

Wednesday, February 17, 2010

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REQUEST NUMBER: 10-1905

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8260B		1	RE15-10-8377	R	2/12/2010	
		1	RE15-10-8385	S	2/12/2010	
SW-846:8270C		1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	
		1	RE15-10-8342	R	2/12/2010	
SW-846:8321A_MOD		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	

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Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1905

LOS ALAMOS

REQUEST NUMBER: 10-1905

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8385	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8346	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8346	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8347	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8347	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8344	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8344	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8345	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8345	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8342	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8342	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8343	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8343	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8377	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8377	1	SEPTUM AMBER GLASS	8260B	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: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8342

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	OBT3	JK	2/12/10 AH5 Fill
TIME COLLECTED (HH:MM)		0945		SUB-MEDIA:	TUFF 1	NA	
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA	DL	
LOCATION ID:	15-610841	OK		FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA	OK	
TOP DEPTH:	0	3.0		SAMPLE USAGE:	INV	OK	
BOTTOM DEPTH:	0	3.5		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	normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	↓	

SAMPLE DESC: brown soil and tuff mix

SAMPLE COMMENTS: base of inlet to R44 tank

LOCATION DESC: base of inlet to R44 tank

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
 Beta/Gamma \leq 2170 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm} = \frac{0.0}{0.0}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/12/10 1635	RECEIVED BY (Printed Name) S. MARCAY (Signature) <i>SM</i>	Date/Time 2/12/10 1635
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8343

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		L11
TIME COLLECTED (HH:MM)		11:15		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		DC
LOCATION ID:	15-610841	OK		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		OK
TOP DEPTH:	0	8.0		SAMPLE USAGE:	INV		OK
BOTTOM DEPTH:	0	8.5		SCREEN/PORT DESC:	NA		OK
FIELD MATRIX:	R	S		EXCAVATED:	<input checked="" type="checkbox"/> YES / NO / NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES / NO / <input checked="" type="checkbox"/> NA
BOREHOLE: YES / <input checked="" type="checkbox"/> NO / NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown Soil with some tuff - some roots

Finside collected: RE15-10-8379

SAMPLE COMMENTS: Base of inlet to R-44 tank location

LOCATION DESC: 5 feet below inlet to R44 tank

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 11 dpm
 Beta/Gamma = 2240 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/12/10 1635	RECEIVED BY (Printed Name) S. MARC AN (Signature) <i>SM</i>	Date/Time 2/12/10 1635
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8344

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		5:11
TIME COLLECTED(HH:MM)		10:35		SUB-MEDIA:	TUFF1		NA
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		DC
LOCATION ID:	15-610842	OK		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		OK
TOP DEPTH:	0	7.0		SAMPLE USAGE:	INV		OK
BOTTOM DEPTH:	0	7.5		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	NO			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM24I+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	✓	

SAMPLE DESC: brown soil w pinkish gray tuff fragments
dupe collected: RE15-10-8377

SAMPLE COMMENTS: none

LOCATION DESC: 5 feet below outlet to R44 tank

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 5 dpm
Beta/Gamma = 2270 dpm

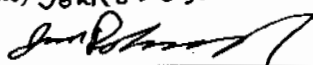

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm} = \frac{0.0}{0.0}$

COLLECTED BY (PRINT)

Jon Roberson

REVIEWED BY (PRINT)

Lorey A. Lopez

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) 	Date/Time 2/12/10 1635	RECEIVED BY S. MARRAS (Printed Name) (Signature) 	Date/Time 2/12/10 1635
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8345

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA: QBT3		JR 2/12/10 ATT F.11	
TIME COLLECTED (HH:MM)		0950		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE: HA		DC	
LOCATION ID:	15-610842	OK		FIELD QC TYPE: NA		OK	
LOCATION TYPE:	GENERIC	OK		FIELD PREP: NA		↓	
TOP DEPTH:	0	2.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	2.5		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	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	↓	

SAMPLE DESC: brown soil and tuff mix

SAMPLE COMMENTS: none

LOCATION DESC: below outlet to R44 tank

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm
Beta/Gamma = 2260 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm} = \frac{0.0}{0.0}$

COLLECTED BY (PRINT)

Jon Roberson

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Jon Roberson (Signature)	Date/Time 2/12/10 1635	RECEIVED BY (Printed Name) S. Martinez (Signature)	Date/Time 2/12/10 1635
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8346

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		Fill
TIME COLLECTED (HH:MM)		955		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		PL
LOCATION ID:	15-610843	OK		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		OK
TOP DEPTH:	Q	10.5		SAMPLE USAGE:	INV		OK
BOTTOM DEPTH:	Q	11		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK 2/12/10 OK 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	normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice		
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	✓	

SAMPLE DESC: Dark brown soil and tuff mix

FTB
+insala collected: RE15-10-8385
JR 2/12/10

SAMPLE COMMENTS: none

LOCATION DESC: base of tank

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 5 dpm
Beta/Gamma = 2160 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm} = \frac{0.0}{0.0}$

COLLECTED BY (PRINT)

Jon Roberson

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/12/10 1635	RECEIVED BY S. MARCHAY (Printed Name) (Signature) <i>SM</i>	Date/Time 2/12/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8347

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		2/12/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1020		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		DC
LOCATION ID:	15-610843	OK		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		↓
TOP DEPTH:	0	15.5		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	16		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED:	YES/NO/NA		
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	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice		
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	↓	

SAMPLE DESC: light pink ash flow tuff

SAMPLE COMMENTS: none

LOCATION DESC: 5 feet below base of tank

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 27 dpm
Beta/Gamma = 2180 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm} = \frac{0.0}{0.0}$

COLLECTED BY (PRINT)

Jon Roberson

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/12/10 1635	RECEIVED BY (Printed Name) G. MAROZAS (Signature) <i>G. Marozas</i>	Date/Time 2/12/10 1635
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8377

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		Fill
TIME COLLECTED (HH:MM)		10:35		SUB-MEDIA:	TUFF1		NA
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		DC
LOCATION ID:	UNK	15-610842		FIELD QC TYPE:	FD		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		OK
TOP DEPTH:	0	7.0		SAMPLE USAGE:	QC		OK
BOTTOM DEPTH:	0	7.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	5		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	normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: QC Sample of RE15-10-8344
Brown Soil with pinkish gray tuff fragments

SAMPLE COMMENTS: none

LOCATION DESC: 5 feet below outlet to R44 tank

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 5 dpm
Beta/Gamma = 2270 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm} = \frac{0.0}{0.0}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

Jon Roberson

Larry A. Lopez

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/12/10 1635	RECEIVED BY (Printed Name) S. M. ROTH (Signature) <i>SMR</i>	Date/Time 2/12/10 1635
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8379

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/12/2010	MEDIA:	NA	NA
TIME COLLECTED (HH:MM)		11:45	SUB-MEDIA:	OTHER	OK
PRS ID:	15-009(c)	OK	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK		FIELD QC TYPE:	FR	
LOCATION TYPE:	GENERIC		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	normal	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	
1		NO3NO2	250 ML POLY	Sulfuric Acid (Hydrogen Sulfate)	N	
1		SW-846:6850	250 ML POLY	Ice	Y	
1	Y	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE15-10-8343

SAMPLE COMMENTS: none

LOCATION DESC: Run septic tank

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

Jon Roberson

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Jon Roberson	2/12/10	S. MARCHAY	2/12/10
(Signature) <i>Jon Roberson</i>	1635	<i>W</i>	1635
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8385

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/12/2010	MEDIA:	FILL	OK
TIME COLLECTED (HH:MM)		10:10	SUB-MEDIA:	SOIL	
PRS ID:	15-009(c)	OK	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK		FIELD QC TYPE:	FTB	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:	NA	
FIELD MATRIX:	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		8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE15-10-8346

SAMPLE COMMENTS: none

LOCATION DESC: R44 Septic tank

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

Jon Roberson

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) Jon Roberson	Date/Time 2/12/10 1635	RECEIVED BY (Printed Name) S. MADRIZ (Signature) [Signature]	Date/Time 2/12/10 1635
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Rad Screening Data Release Form

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

REIS-10-8343
REIS-10-8342
REIS-10-8346
REIS-10-8347
REIS-10-8345
REIS-10-8377
REIS-10-8344

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):

REIS-10-8346 - FTB
REIS-10-8379 - rinsade

Reason:

.....

Print Last Name

Roberson

Signature



Date

2/12/10

Rad Screening Data Release Form

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

REIS-10-8343
REIS-10-8342
REIS-10-8346
REIS-10-8347
REIS-10-8345
REIS-10-8377
REIS-10-8344

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):

REIS-10-8346 - FTB
REIS-10-8379 - rinsade

Reason:

.....
Print Last Name

Roberson

Signature



Date

2/12/10

DATA VALIDATION COVER SHEET

5114-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1905 VALIDATION DATE: 4/21/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Linda Thal 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 type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |
- ☒ OTHER (DESCRIBE): VOCs

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):

- In the FTB, sample RE15-10-8385 associated with samples -8346 and -8347, acetone and benzene were detected. The acetone result for sample -8346 was a detect $\leq 10X$ the FTB concentration and, thus, was qualified U,V4d. The remaining associated sample results were NDs and, thus, were not qualified.
- The %D for n-propylbenzene was $>20\%$ for the CCV associated with all samples except samples -8347 and -8345. The associated sample results were NDs and, thus, were qualified UJ,V7c.
- The MS/MSD was not spiked with trichlorotrifluoroethane and the %Rs for several target analytes and RPDs for multiple target analytes did not meet laboratory acceptance criteria. Since the analysis of an MS or an MSD was not a client requirement, no sample data were qualified as a result.

Reviewed by: Mary Donovan

Level: I


Date: 04/22/10

VALIDATOR'S SIGNATURE: Linda Thal


DATE: 4/21/10

Form 5114-1, Revision 0.0


 LOS ALAMOS
 Environmental Restoration Project

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5114-2 Volatile Organic Compound (VOC) 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, V9	J-, V9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, V9a	J-, V9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The instrument performance sample did not pass method acceptance criteria.	R, V16	R, V16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Samples were analyzed outside specific method tune time criteria.	N/A	J, V16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, V16c	R, V16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ or R, V7	J, V7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. 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, V7a	J, V7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes were analyzed with an RRF of <0.05 in the initial calibration and/or CCV.	R, V7b	J, V7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, V7c	J, V7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, V7d	J, V7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, V7f	R, V7f

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5114-2 Volatile Organic Compound (VOC) 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"/>	12. The sample result is $\leq 5X$ (10X for common organic laboratory contaminants) the concentration of the related analyte in the method blank.	U, V4	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 $>5X$ (10X for common laboratory contaminants).	N/A	J, V4a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, V4d	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, V4e	R, V4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The IS retention time has shifted by more than 30 seconds.	UJ, V0	J, V0
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17. Analyte is positively confirmed but outside the IS retention time window; however, spectral matches must be provided.	N/A	J, V0a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V0b	R, V0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	19. The quantitating IS are 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, V1a	J, V1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. The IS area count for the quantitating IS is $<50\%$ but $>10\%$ for organics window relation to the previous continuing calibration. Follow the method-specific windows.	UJ, V1b	J, V1b

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5114-2 Volatile Organic Compound (VOC) 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"/>	21. The IS area count for the quantitating IS is >200% of the area count for the previous organic continuing calibration. Follow the method-specific windows.	UJ, V1c	J, V1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	22. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V1d	R, V1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The surrogate is <10%R. Follow the external laboratory limits located within the associated data package.	R, V3	J-, V3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The surrogate is < the Lower Acceptance Limit (LAL) but ≥10%R. Follow the external laboratory limits located within the associated data package.	UJ, V3a	J-, V3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The surrogate %R is > the Upper Acceptance Limit (UAL) Follow the external laboratory limits located within the associated data package.	N/A	J+, V3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. At least one surrogate is > the UAL and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, V3c	J, V3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V3d	R, V3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, V12	J-, V12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recovery was < the LAL but > 10%. Follow the external laboratory limits located within the associated data package.	UV, V12a	J-, V12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recover was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, V12b

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5114-2 Volatile Organic Compound (VOC) 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 checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V12c	R, V12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The affected analyte is considered not detected because mass spectrum did not meet specifications.	N/A	U, V8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The mass spectrum column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V8a	R, V8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. Duplicate, dilution, or reanalysis.	UJ, V88	J, V88
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. 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, V15	R, V15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	36. 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"/>	37. 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, V19	J, R, V19

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8342	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 02:12	Inst: VOA7.I	Dilution: 1
Prep Date: 02/23/2010 15:50	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a230.d	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.359	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.29	ug/kg	1.75	5.29
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.29	ug/kg	1.69	5.29
75-09-2	Methylene chloride	U	5.29	ug/kg	2.11	5.29
75-15-0	Carbon disulfide	U	5.29	ug/kg	1.32	5.29
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.29	ug/kg	1.59	5.29
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.29	ug/kg	1.32	5.29
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.29	ug/kg	1.59	5.29
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8342	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 02:12	Inst: VOA7.I	Dilution: 1
Prep Date: 02/23/2010 15:50	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a230.d	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoforn	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06 UJ,V7c
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.29	ug/kg	1.69	5.29
630-20-6	Trichlorotrifluoroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Siloxane	19.69	11.9	ug/kg		J
	Unknown Siloxane	21.55	8.07	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 4.1
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.04	ug/kg	0.355	1.04
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04
67-64-1	Acetone	U	5.22	ug/kg	1.73	5.22
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
74-88-4	Iodomethane	U	5.22	ug/kg	1.67	5.22
75-09-2	Methylene chloride	U	5.22	ug/kg	2.09	5.22
75-15-0	Carbon disulfide	U	5.22	ug/kg	1.30	5.22
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04
78-93-3	2-Butanone	U	5.22	ug/kg	1.56	5.22
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04
108-10-1	4-Methyl-2-pentanone	U	5.22	ug/kg	1.30	5.22
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04
591-78-6	2-Hexanone	U	5.22	ug/kg	1.56	5.22
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
Client ID: RE15-10-8343	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 02:47	Inst: VOA7.I	Dilution: 1
Prep Date: 02/23/2010 15:52	Analyst: AX01	Purge Vol: 5 mL
Data File: 7a231.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.09	ug/kg	0.313	2.09
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromofonn	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04 UJ,V7c
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.22	ug/kg	1.67	5.22
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Hydrocarbon	18.67	52.2	ug/kg		J
	Unknown Siloxane	19.69	6.35	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332004

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 5.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.360	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.29	ug/kg	1.76	5.29
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.29	ug/kg	1.69	5.29
75-09-2	Methylene chloride	U	5.29	ug/kg	2.11	5.29
75-15-0	Carbon disulfide	U	5.29	ug/kg	1.32	5.29
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.29	ug/kg	1.59	5.29
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.29	ug/kg	1.32	5.29
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.29	ug/kg	1.59	5.29
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332004

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06 UJ,V7c
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.29	ug/kg	1.69	5.29
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Siloxane	19.69	12	ug/kg		J

LT 4/21/10

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
Client ID: RE15-10-8345	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 15:59	Inst: VOA7.I	Dilution: 1
Prep Date: 02/24/2010 13:39	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a311.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone	J	5.23	ug/kg	1.77	5.33
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.33	ug/kg	1.71	5.33
75-09-2	Methylene chloride	U	5.33	ug/kg	2.13	5.33
75-15-0	Carbon disulfide	U	5.33	ug/kg	1.33	5.33
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.33	ug/kg	1.60	5.33
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.33	ug/kg	1.33	5.33
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.33	ug/kg	1.60	5.33
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 15:59	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/24/2010 13:39	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a311.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.320	2.13
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	U	1.07	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.33	ug/kg	1.71	5.33
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	5.43	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332002

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AX01
 Allquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8346
 Batch ID: 956739
 Run Date: 02/23/2010 23:53
 Prep Date: 02/23/2010 15:38
 Data File: 7a226.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.12	ug/kg	0.380	1.12
74-87-3	Chloromethane	U	1.12	ug/kg	0.335	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.335	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.335	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.335	1.12
67-64-1	Acetone		9.63	ug/kg	1.86	5.59 U,V4d
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
74-88-4	Iodomethane	U	5.59	ug/kg	1.79	5.59
75-09-2	Methylene chloride	U	5.59	ug/kg	2.24	5.59
75-15-0	Carbon disulfide	U	5.59	ug/kg	1.40	5.59
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.335	1.12
78-93-3	2-Butanone	U	5.59	ug/kg	1.68	5.59
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
67-66-3	Chloroform	U	1.12	ug/kg	0.335	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.369	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.335	1.12
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.335	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.335	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.369	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.335	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone	U	5.59	ug/kg	1.40	5.59
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
108-88-3	Toluene	U	1.12	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.335	1.12
591-78-6	2-Hexanone	U	5.59	ug/kg	1.68	5.59
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.335	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.335	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332002

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes	U	2.24	ug/kg	0.335	2.24
95-47-6	o-Xylene	U	1.12	ug/kg	0.335	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.335	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.335	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.335	1.12 UJ,V7c
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.59	ug/kg	1.79	5.59
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Hydrocarbon	19.65	10.4	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332003

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 2.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.03	ug/kg	0.350	1.03
74-87-3	Chloromethane	U	1.03	ug/kg	0.308	1.03
75-01-4	Vinyl chloride	U	1.03	ug/kg	0.308	1.03
74-83-9	Bromomethane	U	1.03	ug/kg	0.308	1.03
75-00-3	Chloroethane	U	1.03	ug/kg	0.308	1.03
75-69-4	Trichlorofluoromethane	U	1.03	ug/kg	0.308	1.03
67-64-1	Acetone	U	5.14	ug/kg	1.71	5.14
75-35-4	1,1-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
74-88-4	Iodomethane	U	5.14	ug/kg	1.65	5.14
75-09-2	Methylene chloride	U	5.14	ug/kg	2.06	5.14
75-15-0	Carbon disulfide	U	5.14	ug/kg	1.29	5.14
156-60-5	trans-1,2-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
75-34-3	1,1-Dichloroethane	U	1.03	ug/kg	0.308	1.03
78-93-3	2-Butanone	U	5.14	ug/kg	1.54	5.14
156-59-2	cis-1,2-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
594-20-7	2,2-Dichloropropane	U	1.03	ug/kg	0.308	1.03
67-66-3	Chloroform	U	1.03	ug/kg	0.308	1.03
74-97-5	Bromochloromethane	U	1.03	ug/kg	0.339	1.03
71-55-6	1,1,1-Trichloroethane	U	1.03	ug/kg	0.308	1.03
563-58-6	1,1-Dichloropropene	U	1.03	ug/kg	0.308	1.03
56-23-5	Carbon tetrachloride	U	1.03	ug/kg	0.308	1.03
107-06-2	1,2-Dichloroethane	U	1.03	ug/kg	0.308	1.03
71-43-2	Benzene	U	1.03	ug/kg	0.308	1.03
79-01-6	Trichloroethylene	U	1.03	ug/kg	0.339	1.03
78-87-5	1,2-Dichloropropane	U	1.03	ug/kg	0.308	1.03
75-27-4	Bromodichloromethane	U	1.03	ug/kg	0.308	1.03
74-95-3	Dibromomethane	U	1.03	ug/kg	0.308	1.03
108-10-1	4-Methyl-2-pentanone	U	5.14	ug/kg	1.29	5.14
10061-01-5	cis-1,3-Dichloropropylene	U	1.03	ug/kg	0.308	1.03
108-88-3	Toluene	U	1.03	ug/kg	0.308	1.03
10061-02-6	trans-1,3-Dichloropropylene	U	1.03	ug/kg	0.308	1.03
79-00-5	1,1,2-Trichloroethane	U	1.03	ug/kg	0.308	1.03
591-78-6	2-Hexanone	U	5.14	ug/kg	1.54	5.14
142-28-9	1,3-Dichloropropane	U	1.03	ug/kg	0.308	1.03
127-18-4	Tetrachloroethylene	U	1.03	ug/kg	0.308	1.03
124-48-1	Dibromochloromethane	U	1.03	ug/kg	0.308	1.03
106-93-4	1,2-Dibromoethane	U	1.03	ug/kg	0.308	1.03
108-90-7	Chlorobenzene	U	1.03	ug/kg	0.308	1.03

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332003	Date Received: 02/18/2010 08:45	%Moisture: 2.7
Client ID: RE15-10-8347	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 15:24	Inst: VOA7.I	Dilution: 1
Prep Date: 02/24/2010 13:37	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a310.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.03	ug/kg	0.308	1.03
179601-23-1	m,p-Xylenes	U	2.06	ug/kg	0.308	2.06
95-47-6	o-Xylene	U	1.03	ug/kg	0.308	1.03
100-42-5	Styrene	U	1.03	ug/kg	0.308	1.03
75-25-2	Bromoform	U	1.03	ug/kg	0.308	1.03
79-34-5	1,1,2,2-Tetrachloroethane	U	1.03	ug/kg	0.308	1.03
96-18-4	1,2,3-Trichloropropane	U	1.03	ug/kg	0.308	1.03
108-86-1	Bromobenzene	U	1.03	ug/kg	0.308	1.03
103-65-1	n-Propylbenzene	U	1.03	ug/kg	0.308	1.03
95-49-8	2-Chlorotoluene	U	1.03	ug/kg	0.308	1.03
98-82-8	Isopropylbenzene	U	1.03	ug/kg	0.308	1.03
108-67-8	1,3,5-Trimethylbenzene	U	1.03	ug/kg	0.308	1.03
106-43-4	4-Chlorotoluene	U	1.03	ug/kg	0.308	1.03
98-06-6	tert-Butylbenzene	U	1.03	ug/kg	0.308	1.03
95-63-6	1,2,4-Trimethylbenzene	U	1.03	ug/kg	0.308	1.03
135-98-8	sec-Butylbenzene	U	1.03	ug/kg	0.308	1.03
99-87-6	4-Isopropyltoluene	U	1.03	ug/kg	0.308	1.03
541-73-1	1,3-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03
106-46-7	1,4-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03
104-51-8	n-Butylbenzene	U	1.03	ug/kg	0.308	1.03
96-12-8	1,2-Dibromo-3-chloropropane	U	1.03	ug/kg	0.308	1.03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.14	ug/kg	1.65	5.14
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.03	ug/kg	0.308	1.03
95-50-1	1,2-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	9.18	ug/kg		J
	Unknown Siloxane	21.55	7.95	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8377	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 03:22	Inst: VOA7.I	Dilution: 1
Prep Date: 02/23/2010 15:54	Analyst: AX01	Purge Vol: 5 mL
Data File: 7a232.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.359	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.28	ug/kg	1.75	5.28
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.28	ug/kg	1.69	5.28
75-09-2	Methylene chloride	U	5.28	ug/kg	2.11	5.28
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.32	5.28
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.58	5.28
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.32	5.28
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	J	0.319	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.28	ug/kg	1.58	5.28
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332008

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 5.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8377
 Batch ID: 956739
 Run Date: 02/24/2010 03:22
 Prep Date: 02/23/2010 15:54
 Data File: 7a232.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06 UJ,V7c
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.28	ug/kg	1.69	5.28
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Siloxane	19.69	6.13	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332001

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45

Matrix: S

Client ID: RE15-10-8385
 Batch ID: 956739
 Run Date: 02/23/2010 23:19
 Prep Date: 02/23/2010 15:36
 Data File: 7a225.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	J	2.52	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	J	0.535	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332001

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: S
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8385
 Batch ID: 956739
 Run Date: 02/23/2010 23:19
 Prep Date: 02/23/2010 15:36
 Data File: 7a225.d

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoforn	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00 UJ,V7c
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	5.23	ug/kg		J

DATA VALIDATION COVER SHEET

5115-1

Data Validation Cover Sheet

Records Use only

**Section I.**REQUEST NUMBER: 10-1905 VALIDATION DATE: 4/21/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Linda Thal 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 type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |
- ☒ OTHER (DESCRIBE): SVOCs


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):


- Sample RE15-10-8345 was re-extracted and re-analyzed >1X but ≤2X past the method specified holding time due to a failing surrogate in the initial analysis and both sets of results were reported. Based on professional judgment, the initial analysis was used for data validation. The re-extracted sample results that were detects were qualified J,SV88 and those that were NDs were qualified UJ,SV88.
- The CCV %Ds for benzyl alcohol; benzoic acid; hexachlorocyclopentadiene; 3-nitroaniline; 4-nitroaniline; indeno(1,2,3-cd)pyrene and dibenzo(a,h)anthracene were >20%. The indeno(1,2,3-cd)pyrene results for samples -8346 and -8342 were detects and, thus, were qualified J,SV7c. The remaining associated sample results were NDs and, thus, were qualified UJ,SV7c.
- The 2,4,6-tribromophenol surrogate %R was < the laboratory's LAL but ≥10% for sample -8345. Since only one surrogate failed for the acid fraction, no sample results were qualified.
- The MS/MSD was performed on a sample from another LANL RN and the raw data for the parent sample were not present in the data package. The MS/MSD %Rs and RPDs for several target analytes did not meet laboratory acceptance criteria. Since the analysis of an MS or an MSD was not a client requirement, no sample results were qualified.

Reviewed by: Mary DonovanLevel: IDate: 04/22/10


DATA VALIDATION COVER SHEET	
5115-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1943
VALIDATOR'S SIGNATURE: <u><i>A. Neal</i></u> DATE: <u>4/21/10</u>	
Form 5115-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5115-2 Semivolatile Organic Compound (SVOC) 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 checked="" type="checkbox"/>	<input 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	
5115-2 Semivolatile Organic Compound (SVOC) 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"/>	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	
5115-2 Semivolatile Organic Compound (SVOC) 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"/>	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 checked="" type="checkbox"/>	<input 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	
5115-2 Semivolatile Organic Compound (SVOC) 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 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332006

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8342
Batch ID: 956285
Run Date: 03/04/2010 18:57
Prep Date: 02/23/2010 10:34
Data File: s4c0418.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.4	352
108-95-2	Phenol	U	352	ug/kg	70.4	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.4	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.4	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.4	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.4	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.0	352
129-00-0	Pyrene		78.3	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.4	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.4	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.4	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.4	352
108-60-1	bis(2-Chloroisopropyl) ether	U	352	ug/kg	70.4	352
95-48-7	o-Cresol	U	352	ug/kg	70.4	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.4	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.4	352
78-59-1	Isophorone	U	352	ug/kg	70.4	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.4	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.4	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.4	352
65-85-0	Benzoic acid	U	704	ug/kg	176	704 UJ,SV7c
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.4	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.4	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.04	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.4	352 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.4	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.4	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.4	352
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.4	352 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8342	Client: LANL010	Project: LANL01004
Batch ID: 956285	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/04/2010 18:57	Inst: MSD4.I	Dilution: 1
Prep Date: 02/23/2010 10:34	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4c0418.d	Allquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dinethylphthalate	U	352	ug/kg	70.4	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	704	ug/kg	134	704
132-64-9	Dibenzofuran	U	352	ug/kg	70.4	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.4	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.4	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.4	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352 UJ,SV7c
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	352	ug/kg	70.4	352
122-66-7	Azobenzene	U	352	ug/kg	70.4	352
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.4	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.4	352
85-01-8	Phenanthrene		81.2	ug/kg	10.6	35.2
120-12-7	Anthracene	J	12.8	ug/kg	7.04	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.4	352
206-44-0	Fluoranthene		127	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.4	352
56-55-3	Benzo(a)anthracene		62.6	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene		52.7	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.4	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.4	352
205-99-2	Benzo(b)fluoranthene		72.0	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene		38.4	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	20.8	ug/kg	10.6	35.2 J,SV7c
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2 UJ,SV7c
191-24-2	Benzo(ghi)perylene	J	22.6	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.4	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	669	ug/kg		J
	Unknown	5.64	393	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8342	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 18:57	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Allquot: 30.03 g	Final Volume: 1 mL
Data File: s4c0418.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	1760	ug/kg	99	NJ
79-92-5	Camphene	5.84	149	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	153	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	503	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.12	2080	ug/kg	96	NJ
	Unknown	8.92	301	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.5	347
108-95-2	Phenol	U	347	ug/kg	69.5	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.5	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.5	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.5	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.5	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.5	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	115	347
87-86-5	Pentachlorophenol	U	347	ug/kg	86.8	347
129-00-0	Pyrene	J	16.9	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.5	347
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.5	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.5	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.5	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.5	347
95-48-7	o-Cresol	U	347	ug/kg	69.5	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.5	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.5	347
78-59-1	Isophorone	U	347	ug/kg	69.5	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.5	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	122	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.5	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.5	347
65-85-0	Benzoic acid	U	695	ug/kg	174	695 UJ,SV7c
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.5	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.5	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.95	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.5	347 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.5	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.5	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.5	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.5	347
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	347	ug/kg	69.5	347 UJ,SV7c

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	347	ug/kg	69.5	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	695	ug/kg	132	695
132-64-9	Dibenzofuran	U	347	ug/kg	69.5	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.5	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.5	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.5	347
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347 UJ,SV7c
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	347	ug/kg	69.5	347
122-66-7	Azobenzene	U	347	ug/kg	69.5	347
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.5	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.5	347
85-01-8	Phenanthrene	J	16.5	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.95	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.5	347
206-44-0	Fluoranthene	J	24.9	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.5	347
56-55-3	Benzo(a)anthracene	J	18.3	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.5	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.5	347
205-99-2	Benzo(b)fluoranthene	J	15.3	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7 UJ,SV7c
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.5	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	1290	ug/kg		J
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	441	ug/kg	86	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
Client ID: RE15-10-8343	Client: LANL010	Project: LANL01004
Batch ID: 956285	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/04/2010 19:19	Inst: MSD4.I	Dilution: 1
Prep Date: 02/23/2010 10:34	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4c0419.d	Aliquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Flt	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	1820	ug/kg	99	NJ
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	5.84	212	ug/kg	93	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	173	ug/kg	97	NJ
77-53-2	Cedrol	6.4	403	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	2470	ug/kg	97	NJ
	Unknown	8.94	333	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1905
Lab Sample ID: 247332004

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8344
Batch ID: 956285
Run Date: 03/04/2010 18:12
Prep Date: 02/23/2010 10:34
Data File: s4c0416.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.5	352
108-95-2	Phenol	U	352	ug/kg	70.5	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.5	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.5	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.5	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.5	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.1	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.5	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.5	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.5	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.5	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.5	352
95-48-7	o-Cresol	U	352	ug/kg	70.5	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.5	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.5	352
78-59-1	Isophorone	U	352	ug/kg	70.5	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.5	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.5	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.5	352
65-85-0	Benzoic acid	U	705	ug/kg	176	705 UJ,SV7c
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.5	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.5	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.05	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.5	352 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.5	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.5	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.5	352
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.5	352 UJ,SV7c

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332004	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8344	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 18:12	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0416.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	352	ug/kg	70.5	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	705	ug/kg	134	705
132-64-9	Dibenzofuran	U	352	ug/kg	70.5	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.5	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.5	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.5	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.5	352
122-66-7	Azobenzene	U	352	ug/kg	70.5	352
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.5	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.5	352
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	7.05	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.5	352
206-44-0	Fluoranthene	U	35.2	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.5	352
56-55-3	Benzo(a)anthracene	U	35.2	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene	U	35.2	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.5	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.5	352
205-99-2	Benzo(b)fluoranthene	U	35.2	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	U	35.2	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2 UJ,SV7c
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.5	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.87	623	ug/kg		J
	Unknown	5.64	885	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332004	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8344	Client: LANL010	Project: LANL01004
Batch ID: 956285	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/04/2010 18:12	Inst: MSD4.I	Dilution: 1
Prep Date: 02/23/2010 10:34	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4c0416.d	Aliquot: 30 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	3130	ug/kg	99	NJ
5794-03-6	Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5.84	303	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	315	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	1350	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	5150	ug/kg	98	NJ
	Unknown	8.94	689	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332005

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.01 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8345
Batch ID: 956285
Run Date: 03/04/2010 18:35
Prep Date: 02/23/2010 10:34
Data File: s4c0417.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	355	ug/kg	71.1	355
108-95-2	Phenol	U	355	ug/kg	71.1	355
95-57-8	2-Chlorophenol	U	355	ug/kg	71.1	355
106-46-7	1,4-Dichlorobenzene	U	355	ug/kg	71.1	355
621-64-7	N-Nitrosodipropylamine	U	355	ug/kg	71.1	355
59-50-7	4-Chloro-3-methylphenol	U	355	ug/kg	71.1	355
83-32-9	Acenaphthene	U	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	U	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	U	355	ug/kg	117	355
87-86-5	Pentachlorophenol	U	355	ug/kg	88.9	355
129-00-0	Pyrene		35.9	ug/kg	10.7	35.5
110-86-1	Pyridine	U	355	ug/kg	71.1	355
62-53-3	Aniline	U	355	ug/kg	107	355
111-44-4	bis(2-Chloroethyl) ether	U	355	ug/kg	71.1	355
541-73-1	1,3-Dichlorobenzene	U	355	ug/kg	71.1	355
100-51-6	Benzyl alcohol	U	355	ug/kg	107	355 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	355	ug/kg	71.1	355
108-60-1	bis(2-Chloroisopropyl)ether	U	355	ug/kg	71.1	355
95-48-7	o-Cresol	U	355	ug/kg	71.1	355
65794-96-9	m,p-Cresols	U	355	ug/kg	107	355
67-72-1	Hexachloroethane	U	355	ug/kg	71.1	355
98-95-3	Nitrobenzene	U	355	ug/kg	71.1	355
78-59-1	Isophorone	U	355	ug/kg	71.1	355
88-75-5	2-Nitrophenol	U	355	ug/kg	71.1	355
105-67-9	2,4-Dimethylphenol	U	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	U	355	ug/kg	71.1	355
120-83-2	2,4-Dichlorophenol	U	355	ug/kg	71.1	355
65-85-0	Benzoic acid	U	711	ug/kg	178	711 UJ,SV7c
91-20-3	Naphthalene	U	35.5	ug/kg	10.7	35.5
106-47-8	4-Chloroaniline	U	355	ug/kg	71.1	355
87-68-3	Hexachlorobutadiene	U	355	ug/kg	71.1	355
91-57-6	2-Methylnaphthalene	U	35.5	ug/kg	7.11	35.5
77-47-4	Hexachlorocyclopentadiene	U	355	ug/kg	71.1	355 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	355	ug/kg	71.1	355
95-95-4	2,4,5-Trichlorophenol	U	355	ug/kg	71.1	355
91-58-7	2-Chloronaphthalene	U	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	U	355	ug/kg	71.1	355
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	355	ug/kg	71.1	355 UJ,SV7c

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332005

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8345
Batch ID: 956285
Run Date: 03/04/2010 18:35
Prep Date: 02/23/2010 10:34
Data File: s4c0417.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	355	ug/kg	71.1	355
606-20-2	2,6-Dinitrotoluene	U	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	U	35.5	ug/kg	10.7	35.5
51-28-5	2,4-Dinitrophenol	U	711	ug/kg	135	711
132-64-9	Dibenzofuran	U	355	ug/kg	71.1	355
84-66-2	Diethylphthalate	U	355	ug/kg	71.1	355
86-73-7	Fluorene	U	35.5	ug/kg	10.7	35.5
7005-72-3	4-Chlorophenylphenylether	U	355	ug/kg	71.1	355
534-52-1	2-Methyl-4,6-dinitrophenol	U	355	ug/kg	71.1	355
100-01-6	4-Nitroaniline	U	355	ug/kg	107	355 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	355	ug/kg	71.1	355
122-66-7	Azobenzene	U	355	ug/kg	71.1	355
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	355	ug/kg	71.1	355
118-74-1	Hexachlorobenzene	U	355	ug/kg	71.1	355
85-01-8	Phenanthrene	J	34.6	ug/kg	10.7	35.5
120-12-7	Anthracene	U	35.5	ug/kg	7.11	35.5
84-74-2	Di-n-butylphthalate	U	355	ug/kg	71.1	355
206-44-0	Fluoranthene		50.8	ug/kg	10.7	35.5
85-68-7	Butylbenzylphthalate	U	355	ug/kg	71.1	355
56-55-3	Benzo(a)anthracene	J	29.2	ug/kg	10.7	35.5
91-94-1	3,3'-Dichlorobenzidine	U	355	ug/kg	107	355
218-01-9	Chrysene	J	20.2	ug/kg	10.7	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	355	ug/kg	71.1	355
117-84-0	Di-n-octylphthalate	U	355	ug/kg	71.1	355
205-99-2	Benzo(b)fluoranthene	J	28.6	ug/kg	10.7	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.7	35.5
50-32-8	Benzo(a)pyrene	J	14.9	ug/kg	10.7	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.7	35.5 UJ,SV7c
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.7	35.5 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.7	35.5
120-82-1	1,2,4-Trichlorobenzene	U	355	ug/kg	71.1	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.88	2630	ug/kg		J
7785-70-8	1R- α -Pinene	3.4	1080	ug/kg	96	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332005

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	587	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	1200	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332005

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.06 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8345RE
Batch ID: 961919
Run Date: 03/08/2010 13:54
Prep Date: 03/07/2010 12:11
Data File: s7c0813.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	Uh	355	ug/kg	71.0	355 UJ,SV88
108-95-2	Phenol	Uh	355	ug/kg	71.0	355
95-57-8	2-Chlorophenol	Uh	355	ug/kg	71.0	355
106-46-7	1,4-Dichlorobenzene	Uh	355	ug/kg	71.0	355
621-64-7	N-Nitrosodipropylamine	Uh	355	ug/kg	71.0	355
59-50-7	4-Chloro-3-methylphenol	Uh	355	ug/kg	71.0	355
83-32-9	Acenaphthene	Uh	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	Uh	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	Uh	355	ug/kg	117	355
87-86-5	Pentachlorophenol	Uh	355	ug/kg	88.7	355
129-00-0	Pyrene	Jh	28.8	ug/kg	10.6	35.5 J,SV88
110-86-1	Pyridine	Uh	355	ug/kg	71.0	355 UJ,SV88
62-53-3	Aniline	Uh	355	ug/kg	106	355
111-44-4	bis(2-Chloroethyl) ether	Uh	355	ug/kg	71.0	355
541-73-1	1,3-Dichlorobenzene	Uh	355	ug/kg	71.0	355
100-51-6	Benzyl alcohol	Uh	355	ug/kg	106	355
95-50-1	1,2-Dichlorobenzene	Uh	355	ug/kg	71.0	355
108-60-1	bis(2-Chloroisopropyl)ether	Uh	355	ug/kg	71.0	355
95-48-7	o-Cresol	Uh	355	ug/kg	71.0	355
65794-96-9	m,p-Cresols	Uh	355	ug/kg	106	355
67-72-1	Hexachloroethane	Uh	355	ug/kg	71.0	355
98-95-3	Nitrobenzene	Uh	355	ug/kg	71.0	355
78-59-1	Isophorone	Uh	355	ug/kg	71.0	355
88-75-5	2-Nitrophenol	Uh	355	ug/kg	71.0	355
105-67-9	2,4-Dimethylphenol	Uh	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	Uh	355	ug/kg	71.0	355
120-83-2	2,4-Dichlorophenol	Uh	355	ug/kg	71.0	355
65-85-0	Benzoic acid	Uh	710	ug/kg	177	710
91-20-3	Naphthalene	Jh	11.2	ug/kg	10.6	35.5 J,SV88
106-47-8	4-Chloroaniline	Uh	355	ug/kg	71.0	355 UJ,SV88
87-68-3	Hexachlorobutadiene	Uh	355	ug/kg	71.0	355
91-57-6	2-Methylnaphthalene	Uh	35.5	ug/kg	7.10	35.5
77-47-4	Hexachlorocyclopentadiene	Uh	355	ug/kg	71.0	355
88-06-2	2,4,6-Trichlorophenol	Uh	355	ug/kg	71.0	355
95-95-4	2,4,5-Trichlorophenol	Uh	355	ug/kg	71.0	355
91-58-7	2-Chloronaphthalene	Uh	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	Uh	355	ug/kg	71.0	355
99-09-2	o-Nitroaniline	Uh	355	ug/kg	71.0	355
	3-Nitroaniline	Uh	355	ug/kg	71.0	355

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
Client ID: RE15-10-8345RE	Client: LANL010	Project: LANL01004
Batch ID: 961919	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/08/2010 13:54	Inst: MSD7.I	Dilution: 1
Prep Date: 03/07/2010 12:11	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7c0813.d	Aliquot: 30.06 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					UJ,SV88
	Dimethylphthalate	Uh	355	ug/kg	71.0	355
606-20-2	2,6-Dinitrotoluene	Uh	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	Uh	35.5	ug/kg	10.6	35.5
51-28-5	2,4-Dinitrophenol	Uh	710	ug/kg	135	710
132-64-9	Dibenzofuran	Uh	355	ug/kg	71.0	355
84-66-2	Diethylphthalate	Uh	355	ug/kg	71.0	355
86-73-7	Fluorene	Uh	35.5	ug/kg	10.6	35.5
7005-72-3	4-Chlorophenylphenylether	Uh	355	ug/kg	71.0	355
534-52-1	2-Methyl-4,6-dinitrophenol	Uh	355	ug/kg	71.0	355
100-01-6	4-Nitroaniline	Uh	355	ug/kg	106	355
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	Uh	355	ug/kg	71.0	355
122-66-7	Azobenzene	Uh	355	ug/kg	71.0	355
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	Uh	355	ug/kg	71.0	355
118-74-1	Hexachlorobenzene	Uh	355	ug/kg	71.0	355
85-01-8	Phenanthrene	Jh	34.1	ug/kg	10.6	35.5 J,SV88
120-12-7	Anthracene	Uh	35.5	ug/kg	7.10	35.5 UJ,SV88
84-74-2	Di-n-butylphthalate	Uh	355	ug/kg	71.0	355 UJ,SV88
206-44-0	Fluoranthene	h	48.3	ug/kg	10.6	35.5 J,SV88
85-68-7	Butylbenzylphthalate	Uh	355	ug/kg	71.0	355 UJ,SV88
56-55-3	Benzo(a)anthracene	Jh	22.2	ug/kg	10.6	35.5 J,SV88
91-94-1	3,3'-Dichlorobenzidine	Uh	355	ug/kg	106	355 UJ,SV88
218-01-9	Chrysene	Jh	20.3	ug/kg	10.6	35.5 J,SV88
117-81-7	bis(2-Ethylhexyl)phthalate	Uh	355	ug/kg	71.0	355 UJ,SV88
117-84-0	Di-n-octylphthalate	Uh	355	ug/kg	71.0	355 UJ,SV88
205-99-2	Benzo(b)fluoranthene	Jh	31.6	ug/kg	10.6	35.5 J,SV88
207-08-9	Benzo(k)fluoranthene	Uh	35.5	ug/kg	10.6	35.5 UJ,SV88
50-32-8	Benzo(a)pyrene	Jh	16.6	ug/kg	10.6	35.5 J,SV88
193-39-5	Indeno(1,2,3-cd)pyrene	Uh	35.5	ug/kg	10.6	35.5 UJ,SV88
53-70-3	Dibenzo(a,h)anthracene	Uh	35.5	ug/kg	10.6	35.5
191-24-2	Benzo(ghi)perylene	Uh	35.5	ug/kg	10.6	35.5
120-82-1	1,2,4-Trichlorobenzene	Uh	355	ug/kg	71.0	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.04	3650	ug/kg		J
7785-70-8	1R- α -Pinene	3.58	669	ug/kg	98	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
Client ID: RE15-10-8345RE	Client: LANL010	Project: LANL01004
Batch ID: 961919	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/08/2010 13:54	Inst: MSD7.I	Dilution: 1
Prep Date: 03/07/2010 12:11	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7c0813.d	Allquot: 30.06 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
489-40-7	1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,	5.75	364	ug/kg	93	NJ
	Unknown	5.83	1730	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.86	4730	ug/kg	98	NJ
79-92-5	Camphene	6.03	808	ug/kg	83	NJ
	Unknown	6.07	218	ug/kg		J
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	6.19	144	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.21	718	ug/kg	97	NJ
77-53-2	Cedrol	6.64	1480	ug/kg	94	NJ
	Unknown	8.77	426	ug/kg		J
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	8.82	297	ug/kg	99	NJ
	Unknown	9.09	274	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.13	8360	ug/kg	98	NJ
	Unknown	9.42	270	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	9.51	308	ug/kg	94	NJ
110936-78-2	7-Oxodehydroabiatic acid, methyl ester	9.95	263	ug/kg	93	NJ
	Unknown	10.22	852	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332002

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	372	ug/kg	74.3	372
108-95-2	Phenol	U	372	ug/kg	74.3	372
95-57-8	2-Chlorophenol	U	372	ug/kg	74.3	372
106-46-7	1,4-Dichlorobenzene	U	372	ug/kg	74.3	372
621-64-7	N-Nitrosodipropylamine	U	372	ug/kg	74.3	372
59-50-7	4-Chloro-3-methylphenol	U	372	ug/kg	74.3	372
83-32-9	Acenaphthene	U	37.2	ug/kg	12.3	37.2
121-14-2	2,4-Dinitrotoluene	U	372	ug/kg	37.2	372
100-02-7	4-Nitrophenol	U	372	ug/kg	123	372
87-86-5	Pentachlorophenol	U	372	ug/kg	92.9	372
129-00-0	Pyrene		152	ug/kg	11.2	37.2
110-86-1	Pyridine	U	372	ug/kg	74.3	372
62-53-3	Aniline	U	372	ug/kg	112	372
111-44-4	bis(2-Chloroethyl) ether	U	372	ug/kg	74.3	372
541-73-1	1,3-Dichlorobenzene	U	372	ug/kg	74.3	372
100-51-6	Benzyl alcohol	U	372	ug/kg	112	372 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	372	ug/kg	74.3	372
108-60-1	bis(2-Chloroisopropyl)ether	U	372	ug/kg	74.3	372
95-48-7	o-Cresol	U	372	ug/kg	74.3	372
65794-96-9	m,p-Cresols	U	372	ug/kg	112	372
67-72-1	Hexachloroethane	U	372	ug/kg	74.3	372
98-95-3	Nitrobenzene	U	372	ug/kg	74.3	372
78-59-1	Isophorone	U	372	ug/kg	74.3	372
88-75-5	2-Nitrophenol	U	372	ug/kg	74.3	372
105-67-9	2,4-Dimethylphenol	U	372	ug/kg	130	372
111-91-1	bis(2-Chloroethoxy)methane	U	372	ug/kg	74.3	372
120-83-2	2,4-Dichlorophenol	U	372	ug/kg	74.3	372
65-85-0	Benzoic acid	U	743	ug/kg	186	743 UJ,SV7c
91-20-3	Naphthalene	U	37.2	ug/kg	11.2	37.2
106-47-8	4-Chloroaniline	U	372	ug/kg	74.3	372
87-68-3	Hexachlorobutadiene	U	372	ug/kg	74.3	372
91-57-6	2-Methylnaphthalene	U	37.2	ug/kg	7.43	37.2
77-47-4	Hexachlorocyclopentadiene	U	372	ug/kg	74.3	372 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	372	ug/kg	74.3	372
95-95-4	2,4,5-Trichlorophenol	U	372	ug/kg	74.3	372
91-58-7	2-Chloronaphthalene	U	37.2	ug/kg	12.3	37.2
88-74-4	2-Nitroaniline	U	372	ug/kg	74.3	372
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	372	ug/kg	74.3	372 UJ,SV7c

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332002

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8346
Batch ID: 956285
Run Date: 03/04/2010 17:28
Prep Date: 02/23/2010 10:34
Data File: s4c0414.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	372	ug/kg	74.3	372
606-20-2	2,6-Dinitrotoluene	U	372	ug/kg	37.2	372
208-96-8	Acenaphthylene	U	37.2	ug/kg	11.2	37.2
51-28-5	2,4-Dinitrophenol	U	743	ug/kg	141	743
132-64-9	Dibenzofuran	U	372	ug/kg	74.3	372
84-66-2	Diethylphthalate	U	372	ug/kg	74.3	372
86-73-7	Fluorene	J	15.4	ug/kg	11.2	37.2
7005-72-3	4-Chlorophenylphenylether	U	372	ug/kg	74.3	372
534-52-1	2-Methyl-4,6-dinitrophenol	U	372	ug/kg	74.3	372
100-01-6	4-Nitroaniline	U	372	ug/kg	112	372 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	372	ug/kg	74.3	372
122-66-7	Azobenzene	U	372	ug/kg	74.3	372
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	372	ug/kg	74.3	372
118-74-1	Hexachlorobenzene	U	372	ug/kg	74.3	372
85-01-8	Phenanthrene		189	ug/kg	11.2	37.2
120-12-7	Anthracene	J	31.0	ug/kg	7.43	37.2
84-74-2	Di-n-butylphthalate	U	372	ug/kg	74.3	372
206-44-0	Fluoranthene		226	ug/kg	11.2	37.2
85-68-7	Butylbenzylphthalate	U	372	ug/kg	74.3	372
56-55-3	Benzo(a)anthracene		101	ug/kg	11.2	37.2
91-94-1	3,3'-Dichlorobenzidine	U	372	ug/kg	112	372
218-01-9	Chrysene		81.4	ug/kg	11.2	37.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	372	ug/kg	74.3	372
117-84-0	Di-n-octylphthalate	U	372	ug/kg	74.3	372
205-99-2	Benzo(b)fluoranthene		111	ug/kg	11.2	37.2
207-08-9	Benzo(k)fluoranthene	U	37.2	ug/kg	11.2	37.2
50-32-8	Benzo(a)pyrene		59.6	ug/kg	11.2	37.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	32.4	ug/kg	11.2	37.2 J,SV7c
53-70-3	Dibenzo(a,h)anthracene	U	37.2	ug/kg	11.2	37.2 UJ,SV7c
191-24-2	Benzo(ghi)perylene	J	34.6	ug/kg	11.2	37.2
120-82-1	1,2,4-Trichlorobenzene	U	372	ug/kg	74.3	372

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	2190	ug/kg		J
7785-70-8	1R- α -Pinene	3.4	390	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332002	Date Received: 02/18/2010 08:45	%Moisture: 10.5
Client ID: RE15-10-8346	Client: LANL010	Project: LANL01004
Batch ID: 956285	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/04/2010 17:28	Inst: MSD4.I	Dilution: 1
Prep Date: 02/23/2010 10:34	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4c0414.d	Allquot: 30.07 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
---------	----------	-----------	--------	-------	---------	---------

Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
39029-41-9	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	5.57	164	ug/kg	93	NJ
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	1190	ug/kg	86	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	4240	ug/kg	97	NJ
5794-03-6	Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5.84	630	ug/kg	83	NJ
	Unknown	5.88	154	ug/kg		J
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	517	ug/kg	94	NJ
77-53-2	Cedrol	6.4	2000	ug/kg	94	NJ
56324-68-6	1H-Indene, 1-ethylideneoctahydro-7a-meth	6.51	209	ug/kg	91	NJ
	Unknown	6.81	274	ug/kg		J
	Unknown	7.06	155	ug/kg		J
	Unknown	7.72	151	ug/kg		J
	Unknown	8.03	232	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	9350	ug/kg	99	NJ
	Unknown	8.94	1290	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332003

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8347
Batch ID: 956285
Run Date: 03/04/2010 17:50
Prep Date: 02/23/2010 10:34
Data File: s4c0415.d

CAS No.	Parmaame	Qualfler	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	343	ug/kg	68.5	343
108-95-2	Phenol	U	343	ug/kg	68.5	343
95-57-8	2-Chlorophenol	U	343	ug/kg	68.5	343
106-46-7	1,4-Dichlorobenzene	U	343	ug/kg	68.5	343
621-64-7	N-Nitrosodipropylamine	U	343	ug/kg	68.5	343
59-50-7	4-Chloro-3-methylphenol	U	343	ug/kg	68.5	343
83-32-9	Acenaphthene	U	34.3	ug/kg	11.3	34.3
121-14-2	2,4-Dinitrotoluene	U	343	ug/kg	34.3	343
100-02-7	4-Nitrophenol	U	343	ug/kg	113	343
87-86-5	Pentachlorophenol	U	343	ug/kg	85.7	343
129-00-0	Pyrene	U	34.3	ug/kg	10.3	34.3
110-86-1	Pyridine	U	343	ug/kg	68.5	343
62-53-3	Aniline	U	343	ug/kg	103	343
111-44-4	bis(2-Chloroethyl) ether	U	343	ug/kg	68.5	343
541-73-1	1,3-Dichlorobenzene	U	343	ug/kg	68.5	343
100-51-6	Benzyl alcohol	U	343	ug/kg	103	343 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	343	ug/kg	68.5	343
108-60-1	bis(2-Chloroisopropyl)ether	U	343	ug/kg	68.5	343
95-48-7	o-Cresol	U	343	ug/kg	68.5	343
65794-96-9	m,p-Cresols	U	343	ug/kg	103	343
67-72-1	Hexachloroethane	U	343	ug/kg	68.5	343
98-95-3	Nitrobenzene	U	343	ug/kg	68.5	343
78-59-1	Isophorone	U	343	ug/kg	68.5	343
88-75-5	2-Nitrophenol	U	343	ug/kg	68.5	343
105-67-9	2,4-Dimethylphenol	U	343	ug/kg	120	343
111-91-1	bis(2-Chloroethoxy)methane	U	343	ug/kg	68.5	343
120-83-2	2,4-Dichlorophenol	U	343	ug/kg	68.5	343
65-85-0	Benzoic acid	U	685	ug/kg	171	685 UJ,SV7c
91-20-3	Naphthalene	U	34.3	ug/kg	10.3	34.3
106-47-8	4-Chloroaniline	U	343	ug/kg	68.5	343
87-68-3	Hexachlorobutadiene	U	343	ug/kg	68.5	343
91-57-6	2-Methylnaphthalene	U	34.3	ug/kg	6.85	34.3
77-47-4	Hexachlorocyclopentadiene	U	343	ug/kg	68.5	343 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	343	ug/kg	68.5	343
95-95-4	2,4,5-Trichlorophenol	U	343	ug/kg	68.5	343
91-58-7	2-Chloronaphthalene	U	34.3	ug/kg	11.3	34.3
88-74-4	2-Nitroaniline	U	343	ug/kg	68.5	343
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	343	ug/kg	68.5	343 UJ,SV7c

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332003

Client ID: RE15-10-8347
Batch ID: 956285
Run Date: 03/04/2010 17:50
Prep Date: 02/23/2010 10:34
Data File: s4c0415.d

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	343	ug/kg	68.5	343
606-20-2	2,6-Dinitrotoluene	U	343	ug/kg	34.3	343
208-96-8	Acenaphthylene	U	34.3	ug/kg	10.3	34.3
51-28-5	2,4-Dinitrophenol	U	685	ug/kg	130	685
132-64-9	Dibenzofuran	U	343	ug/kg	68.5	343
84-66-2	Diethylphthalate	U	343	ug/kg	68.5	343
86-73-7	Fluorene	U	34.3	ug/kg	10.3	34.3
7005-72-3	4-Chlorophenylphenylether	U	343	ug/kg	68.5	343
534-52-1	2-Methyl-4,6-dinitrophenol	U	343	ug/kg	68.5	343
100-01-6	4-Nitroaniline	U	343	ug/kg	103	343 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	343	ug/kg	68.5	343
122-66-7	Azobenzene	U	343	ug/kg	68.5	343
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	343	ug/kg	68.5	343
118-74-1	Hexachlorobenzene	U	343	ug/kg	68.5	343
85-01-8	Phenanthrene	U	34.3	ug/kg	10.3	34.3
120-12-7	Anthracene	U	34.3	ug/kg	6.85	34.3
84-74-2	Di-n-butylphthalate	U	343	ug/kg	68.5	343
206-44-0	Fluoranthene	U	34.3	ug/kg	10.3	34.3
85-68-7	Butylbenzylphthalate	U	343	ug/kg	68.5	343
56-55-3	Benzo(a)anthracene	U	34.3	ug/kg	10.3	34.3
91-94-1	3,3'-Dichlorobenzidine	U	343	ug/kg	103	343
218-01-9	Chrysene	U	34.3	ug/kg	10.3	34.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	343	ug/kg	68.5	343
117-84-0	Di-n-octylphthalate	U	343	ug/kg	68.5	343
205-99-2	Benzo(b)fluoranthene	U	34.3	ug/kg	10.3	34.3
207-08-9	Benzo(k)fluoranthene	U	34.3	ug/kg	10.3	34.3
50-32-8	Benzo(a)pyrene	U	34.3	ug/kg	10.3	34.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.3	ug/kg	10.3	34.3 UJ,SV7c
53-70-3	Dibenzo(a,h)anthracene	U	34.3	ug/kg	10.3	34.3 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	34.3	ug/kg	10.3	34.3
120-82-1	1,2,4-Trichlorobenzene	U	343	ug/kg	68.5	343

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.02	193	ug/kg		J
	Unknown Aldol Condensate	2.87	1020	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332003	Date Received: 02/18/2010 08:45	%Moisture: 2.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8347	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 17:50	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Allquot: 30.01 g	Final Volume: 1 mL
Data File: s4c0415.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	259	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.12	435	ug/kg	93	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332008

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8377
Batch ID: 956285
Run Date: 03/04/2010 19:42
Prep Date: 02/23/2010 10:34
Data File: s4c0420.d

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.4	352
108-95-2	Phenol	U	352	ug/kg	70.4	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.4	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.4	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.4	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.4	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.0	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.4	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.4	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.4	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.4	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.4	352
95-48-7	o-Cresol	U	352	ug/kg	70.4	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.4	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.4	352
78-59-1	Isophorone	U	352	ug/kg	70.4	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.4	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.4	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.4	352
65-85-0	Benzoic acid	U	704	ug/kg	176	704 UJ,SV7c
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.4	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.4	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.04	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.4	352 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.4	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.4	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.4	352
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.4	352 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332008

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	352	ug/kg	70.4	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	704	ug/kg	134	704
132-64-9	Dibenzofuran	U	352	ug/kg	70.4	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.4	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.4	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.4	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352 UJ,SV7c
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	352	ug/kg	70.4	352
122-66-7	Azobenzene	U	352	ug/kg	70.4	352
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.4	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.4	352
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	7.04	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.4	352
206-44-0	Fluoranthene	J	13.6	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.4	352
56-55-3	Benzo(a)anthracene	U	35.2	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene	U	35.2	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.4	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.4	352
205-99-2	Benzo(b)fluoranthene	U	35.2	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	U	35.2	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2 UJ,SV7c
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.4	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	802	ug/kg		J
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	700	ug/kg	86	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 19:42	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Allquot: 30 g	Final Volume: 1 mL
Data File: s4c0420.d	Column: J&W DB-SMS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	2380	ug/kg	99	NJ
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	5.84	332	ug/kg	90	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	290	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	922	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	5650	ug/kg	98	NJ
	Unknown	8.94	1020	ug/kg		J

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1905 VALIDATION DATE: 4/22/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Linda Thal 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 type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input checked="" type="checkbox"/> LCMSMS HIGH EXPLOSIVES | PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> OTHER (DESCRIBE): _____ | | | |

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):

- The samples were analyzed $>1X$ but $\leq 2X$ past the method specified holding time for the primary analysis. The associated sample results were NDs and, thus, were qualified UJ,HE9.
- The ICAL RRF for p-nitrotoluene was <0.05 but ≥ 0.01 . The associated sample results were NDs and, thus, were qualified UJ,HE7b.
- The ICV %D for m-nitrotoluene was $>20\%$ but $\leq 40\%$ with negative bias. The associated sample results were NDs and, thus, were qualified UJ,HE7c. The ICV %D for RDX was $>20\%$ with positive bias. The associated sample results were NDs and, thus, were not qualified.
- It should be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate RT criteria could not be evaluated. No sample data were qualified as a result.
- The LCS %R for tetraol was $<$ the laboratory's LAL but $\geq 10\%$. The associated sample results were NDs and, thus, were qualified UJ,HE12a.
- The MS/MSD %Rs for TATB were $>$ the laboratory's UAL. The associated sample results were NDs and, thus, were not qualified.

Reviewed by: Mary DonovanLevel: IDate: 04/22/10

VALIDATOR'S SIGNATURE: _____


A. Neal

DATE: 4/22/10


Form 5122-1, Revision 0.0

LOS ALAMOS


Environmental Restoration Project

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
5122-2 LC/MS/MS High Explosive 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 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 type="checkbox"/>	<input checked="" 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	
5122-2 LC/MS/MS High Explosive 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"/>	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 ≤ 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 ≤ 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	
5122-2 LC/MS/MS High Explosive 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 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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	
5122-2 LC/MS/MS High Explosive 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"/>	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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332002

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412015a

Date Analyzed: 12-APR-10 22:33

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJHE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332002

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100133.wiff

Date Analyzed: 12-MAR-10 02:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8347

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332003

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412018a

Date Analyzed: 13-APR-10 00:01

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJ,HE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8347

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332003

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100136.wiff

Date Analyzed: 12-MAR-10 02:51

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8344

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332004

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10


Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412019a

Date Analyzed: 13-APR-10 00:31

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJ,HE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene 	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8344

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332004

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100137.wiff

Date Analyzed: 12-MAR-10 03:07

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8345

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332005

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412020a

Date Analyzed: 13-APR-10 01:00

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJ,HE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8345

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332005

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100138.wiff

Date Analyzed: 12-MAR-10 03:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8342

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332006

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412021a

Date Analyzed: 13-APR-10 01:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene UJ,HE9	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8342

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332006

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100139.wiff

Date Analyzed: 12-MAR-10 03:38

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8343

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332007

Sample Amount 2

Moisture: 4.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412022a

Date Analyzed: 13-APR-10 01:59

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJ,HE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8343

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332007

Sample Amount 2

Moisture: 4.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100140.wiff

Date Analyzed: 12-MAR-10 03:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8377

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332008

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412026a

Date Analyzed: 13-APR-10 03:57

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene UJHE9	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8377

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332008

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100144.wiff


Date Analyzed: 12-MAR-10 04:56

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

DATA VALIDATION COVER SHEET	
5116-1 <p style="text-align: center;">Data Validation Cover Sheet</p>	Records Use only 

Section I.	
REQUEST NUMBER: <u>10-1905</u>	VALIDATION DATE: <u>4/22/10</u>
LAB CODE: <u>GEL</u>	
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>	
VALIDATOR: <u>Linda Thal</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>	
ANALYTICAL SUITE (CHECK ALL THAT APPLY):	
<input type="checkbox"/> TPH-GRO <input type="checkbox"/> TPH-DRO <input type="checkbox"/> GENERAL CHEMISTRY <input type="checkbox"/> OTHER (DESCRIBE): <u>PCBs</u>	<input type="checkbox"/> HIGH EXPLOSIVES <input type="checkbox"/> METALS <input type="checkbox"/> RADIOCHEMISTRY
<input type="checkbox"/> DIOXIN FURANS <input type="checkbox"/> PCB CONGENERS <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	<input type="checkbox"/> LCMSMS PERCHLORATES <input checked="" type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS

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):

None

Reviewed by: Mary Donovan

Level: I

Date: 04/22/10

VALIDATOR'S SIGNATURE: *Linda Thal*

DATE: 4/22/10

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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				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 type="checkbox"/>	<input checked="" 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

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 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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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)
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	
				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

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1905
Lab Sample ID: 247332006Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Allquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 5
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	17.6	ug/kg	5.87	17.6	1
11104-28-2	Aroclor-1221	U	17.6	ug/kg	5.87	17.6	1
11141-16-5	Aroclor-1232	U	17.6	ug/kg	5.87	17.6	1
53469-21-9	Aroclor-1242	U	17.6	ug/kg	5.87	17.6	1
12672-29-6	Aroclor-1248	U	17.6	ug/kg	5.87	17.6	1
11097-69-1	Aroclor-1254	U	17.6	ug/kg	5.87	17.6	1
11096-82-5	Aroclor-1260	U	17.6	ug/kg	5.87	17.6	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1905
Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Allquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 4.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8343
Batch ID: 957231
Run Date: 02/26/2010 15:26
Prep Date: 02/25/2010 10:53
Data File: 049f4901.d
049b4901.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.48	ug/kg	1.16	3.48	1
11104-28-2	Aroclor-1221	U	3.48	ug/kg	1.16	3.48	1
11141-16-5	Aroclor-1232	U	3.48	ug/kg	1.16	3.48	1
53469-21-9	Aroclor-1242	U	3.48	ug/kg	1.16	3.48	1
12672-29-6	Aroclor-1248	U	3.48	ug/kg	1.16	3.48	1
11097-69-1	Aroclor-1254	U	3.48	ug/kg	1.16	3.48	1
11096-82-5	Aroclor-1260	U	3.48	ug/kg	1.16	3.48	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332008

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.52	ug/kg	1.17	3.52	1
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	1
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	1
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	1
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	1
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	1
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	1

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1905

LOS ALAMOS

REQUEST NUMBER: 10-1905

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247332%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8385	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8346	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8346	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8347	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8347	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8344	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8344	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8345	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8345	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8342	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8342	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8343	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8343	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8377	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8377	1	SEPTUM AMBER GLASS	8260B	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

Wednesday, February 17, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/17/2010

TURNAROUND/REPORT DUE: 3/19/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

Page 1 of 2

REQUEST NUMBER: 10-1905

These Samples are on:

LANL Request Number: 10-1905

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	
	SW-846-8260B	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	

REQUEST NUMBER: 10-1905

Wednesday, February 17, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8280B	1	RE15-10-8377	R	2/12/2010	
		1	RE15-10-8385	S	2/12/2010	
	SW-846:8270C	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	
	SW-846:8321A_MOD	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	

Final Page of REQUEST NUMBER 10-1905



February 22, 2010

www.gel.com

Ms. Joylene Valdez
Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545

Re: LANL ER Project
Work Order: 247332
SDG: 10-1905

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 18, 2010, and analyzed for Explosives by LCMSMS, GC Semivolatile PCB, GC/MS Semivolatile and GC/MS Volatile. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1905
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247332
SDG: 10-1905

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247332
SDG # : 10-1905**

February 22, 2010

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 18, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

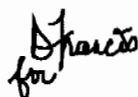
<u>Laboratory ID</u>	<u>Client ID</u>
247332001	RE15-10-8385
247332002	RE15-10-8346
247332003	RE15-10-8347
247332004	RE15-10-8344
247332005	RE15-10-8345
247332006	RE15-10-8342
247332007	RE15-10-8343
247332008	RE15-10-8377

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Explosives by LCMSMS, GC Semivolatile PCB, GC/MS Semivolatile and GC/MS Volatile.

I certify that this data report is in compliance with the terms and conditions of the subcontract and task order, both technically and for completeness, for other than the conditions detailed in the attached case narrative.



Valerie Davis
Project Manager

List of current GEL Certifications as of 22 February 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California - NELAP	01151CA
Colorado	GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida - NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois - NELAP	200029
Indiana	C-SC-01
Kansas - NELAP	E-10332
Kentucky	90129
Louisiana - NELAP	03046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey - NELAP	SC002
New Mexico	FL NELAP E87156
New York - NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania - NELAP	68-00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas - NELAP	T104704235-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah - NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Chain of Custody and Supporting Documentation

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1905

LOS ALAMOS

REQUEST NUMBER: 10-1905

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247332%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8385	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8346	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8346	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8347	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8347	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8344	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8344	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8345	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8345	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8342	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8342	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8343	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8343	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8377	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8377	1	SEPTUM AMBER GLASS	8260B	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

Wednesday, February 17, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/17/2010

TURNAROUND/REPORT DUE: 3/19/2010

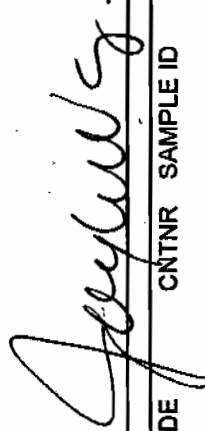
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



Page 1 of 2

REQUEST NUMBER: 10-1905

These Samples are on:

LANL Request Number: 10-1905

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	
	SW-846:8260B	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	

Wednesday, February 17, 2010

REQUEST NUMBER: 10-1905

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE15-10-8377	R	2/12/2010	
		1	RE15-10-8385	S	2/12/2010	
	SW-846:8270C	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	
	SW-846:8321A_MOD	1	RE15-10-8342	R	2/12/2010	
		1	RE15-10-8343	R	2/12/2010	
		1	RE15-10-8344	R	2/12/2010	
		1	RE15-10-8345	R	2/12/2010	
		1	RE15-10-8346	R	2/12/2010	
		1	RE15-10-8347	R	2/12/2010	
		1	RE15-10-8377	R	2/12/2010	

Final Page of REQUEST NUMBER 10-1905



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCO/Work Order: 10-1905		
Received By: Mercedes Simmons			Date Received: 2/18/10		
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.		
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60cpm		
Classified Radioactive II by RSO?		X			
COC/Samples marked containing PCBs?		X			
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:		
Samples identified as Foreign Soil?		X			

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within $0 \leq 6$ deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1,2 10
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11 Number of containers received match number indicated on COC?	X			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers:

7209 7850 1047 1C

7209 7850 1014 2C

7209 7850 1036 2C

7209 7850 1025 2C

7209 7850 0990 10C

7209 7850 1003 10C

ORIGIN ID: SAFA (505) 685-8988
JOYLENE VALDEZ
05 ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

05 ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00

SHIP DATE: 17FEB10
ACTGCT: 51.0 LB MAN
CAO: 0014176/CAPE2450

BILL SENDER

10

20

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR2A05515BYDO



TRKH 7209 7850 1047

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
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(843) 556-8171
REF: 68010AMR3A05529E00

20

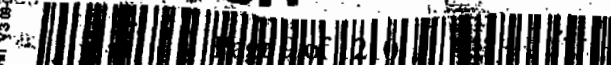


2 of 2
MPSH 7209 7850 1036

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR2A05515BYDO

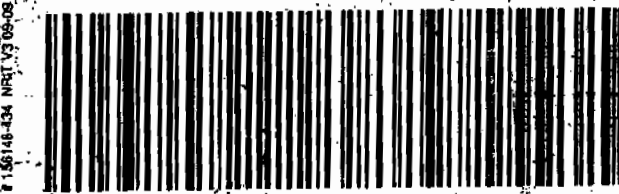


TRKH 7209 7850 1014

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 17FEB10
ACTGCT: 57.0 LB MAN
CAO: 0014176/CAPE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00

20



1 of 2
TRKH 7209 7850 1025

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



Page 10 of 1210

Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- B Metals-Either presence of analyte detected in the associated blank, or
MDL/IDL < sample value < PQL
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- d 5-day BOD-The 2:1 depletion requirement was not met for this sample
- E Organics-Concentration of the target analyte exceeds the instrument calibration range
- E Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- h Preparation or preservation holding time was exceeded
- J Value is estimated
- N Metals-The Matrix spike sample recovery is not within specified control limits
- N Organics-Presumptive evidence based on mass spectral library search to make a tentative
identification of the analyte (TIC). Quantitation is based on nearest internal standard
response factor
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration
by 4X or more
- ND Analyte concentration is not detected above the reporting limit
- UI Gamma Spectroscopy-Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- Z Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

GC/MS Volatile Analysis

**GC/MS Volatile Organics
Los Alamos National Laboratory (LANL)
SDG 10-1905**

Method/Analysis Information

Procedure: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
Analytical Method: SW846 8260B
Prep Method: SW846 5030
Analytical Batch Number: 956739
Prep Batch Number: 956738

Sample Analysis

The following client and quality control samples were analyzed to complete this SDG using the methods referenced in the Analysis Information section:

Sample ID	Client ID
247332001	RE15-10-8385
247332002	RE15-10-8346
247332003	RE15-10-8347
247332004	RE15-10-8344
247332005	RE15-10-8345
247332006	RE15-10-8342
247332007	RE15-10-8343
247332008	RE15-10-8377
1202051370	Method Blank (MB)
1202051373	Laboratory Control Sample (LCS)
1202051374	Laboratory Control Sample (LCS)
1202065431	Method Blank (MB)
1202065432	Laboratory Control Sample (LCS)
1202065433	Laboratory Control Sample (LCS)
1202051371	247332002(RE15-10-8346) Post Spike (PS)
1202051372	247332002(RE15-10-8346) Post Spike Duplicate (PSD)

NOTE: For volatile organic analyses the matrix spike designations may be indicated as "PS" or "PSD". The "PS" designation (post spike) indicates that the matrix was fortified prior to analysis but after applying any prep factors, such as a dilution. The laboratory considers the MS/MSD and PS/PSD designations interchangeable.

Samples 247332 002, 003, 004, 005, 006, 007 and 008 in this SDG were analyzed on an "dry weight" basis. Samples 247332 001 in this SDG were analyzed on a "as received" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-038 REV# 14.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 19.1.2.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the

'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

The surrogate compounds were calibrated using a minimum five-point calibration curve. The surrogates were added by the auto sampler at a concentration of 50 ug/L. GEL Laboratories LLC will not have surrogate recoveries reported for Dibromofluoromethane. This is due to increased regulations for this analyte and an industry shortage.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inverted in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration

All initial calibration requirements have been met for this sample delivery groups (SDG). A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

Continuing Calibration Verification Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

Surrogate recoveries in all client and quality control samples were within the acceptance limits.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 247332002(RE15-10-8346) was used for spike analysis.

Matrix Spike (PS) Recovery Statement

The spike recoveries were not all within the acceptance limits. The spike duplicate did not pass all recoveries. The unacceptable recoveries are attributed to possible inconsistent matrix effect. Please see the Form III for a complete list of recoveries. The results are reported. See DER 803938.

Matrix Spike Duplicate (PSD) Recovery Statement

The spike duplicate recoveries were not all within the acceptance limits. The spike did not pass all recoveries. The unacceptable recoveries are attributed to possible inconsistent matrix effect. Please see the Form III for a complete list of recoveries. The results are reported. See DER 803938.

Relative Percent Difference (RPD) Statement

The RPD between the matrix spike pair were not all within the acceptance limits. The results are reported. See DER 803938.

Internal Standard (ISTD) Acceptance

In sample 247332005 (RE15-10-8345), internal standard responses were outside the required acceptance criteria. Sample re-analysis confirmed matrix interference. See DER 803938.

Technical Information**Holding Time Specifications**

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Sample Preservation and Integrity

All samples met the sample preservation and integrity requirements.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Samples 247332003 (RE15-10-8347) and 247332005 (RE15-10-8345) were re-analyzed due to unacceptable recoveries in the initial analysis.

Miscellaneous Information**Electronic Package Comment**

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

DER # 803938 was generated for this SDG.

Manual Integrations

Data files associated with the initial calibration, continuing calibration check, and samples did not require manual integrations.

TIC Comment

Tentatively identified compounds (TIC) were required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Residual Chlorine

Residual Chlorine was not detected in any of the samples in this SDG.

System Configuration

The Volatile-GC/MS analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description	P & T Trap
VOA7.I	Gas Chromatograph/Mass Spectrometer	HP6890N/HP5973N	DB-624	J&W, 60m x 0.25mm x 1.4um	Trap 10

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Roadmap for LANL 10-1905 VOA

This roadmap was analyzed by ale01592 on 03-15-2010, 05:29.

Sample

exclude	manual	datafile	smpid	clientid	injdate	injtime	sublist	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a225.d	247332001	RE15-10-8385	23-FEB-2010	23:19	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a226.d	247332002	RE15-10-8346	23-FEB-2010	23:53	10-1905.sub	1	956739	<input type="text"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a227.d	247332003	RE15-10-8347	24-FEB-2010	00:28	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a228.d	247332004	RE15-10-8344	24-FEB-2010	01:04	10-1905.sub	1	956739	<input type="text"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a229.d	247332005	RE15-10-8345	24-FEB-2010	01:38	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a230.d	247332006	RE15-10-8342	24-FEB-2010	02:12	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a231.d	247332007	RE15-10-8343	24-FEB-2010	02:47	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a232.d	247332008	RE15-10-8377	24-FEB-2010	03:22	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022410v7/7a310.d	247332003	RE15-10-8347	24-FEB-2010	15:24	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022410v7/7a311.d	247332005	RE15-10-8345	24-FEB-2010	15:59	10-1905.sub	1	956739	<input type="text"/>

QC Sample

exclude	manual	datafile	smpid	clientid	sampletype	injdate	injtime	sublist	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a220IL.d	1202051373	LCS	lcs	23-FEB-2010	20:30	all.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a222IL.d	1202051374	SLCS	lcs	23-FEB-2010	21:37	all.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a224IL.d	1202051370	BLANK	mb	23-FEB-2010	22:45	all.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a237.d	1202051371	RE15-10-8346MS	ms	24-FEB-2010	06:17	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022310v7/7a238.d	1202051372	RE15-10-8346MSD	msd	24-FEB-2010	06:51	10-1905.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022410v7/7a304IL.d	1202065432	LCS	lcs	24-FEB-2010	11:59	all.sub	1	956739	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/022410v7/7a306IL.d	1202065433	SLCS	lcs	24-FEB-2010	13:07	all.sub	1	956739	<input type="text"/>

<input type="checkbox"/>	N	/chem/VOA7.i/022410v7/7a308ii.d	1202065431	BLANK	mb	24-FEB-2010	14:15	all.sub	1	956739	<input type="checkbox"/>
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Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8342	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 02:12	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:50	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a230.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.359	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.29	ug/kg	1.75	5.29
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.29	ug/kg	1.69	5.29
75-09-2	Methylene chloride	U	5.29	ug/kg	2.11	5.29
75-15-0	Carbon disulfide	U	5.29	ug/kg	1.32	5.29
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.29	ug/kg	1.59	5.29
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.29	ug/kg	1.32	5.29
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.29	ug/kg	1.59	5.29
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8342	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 02:12	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:50	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a230.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.29	ug/kg	1.69	5.29
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	11.9	ug/kg		J
	Unknown Siloxane	21.55	8.07	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8343	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 02:47	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:52	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a231.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.04	ug/kg	0.355	1.04
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04
67-64-1	Acetone	U	5.22	ug/kg	1.73	5.22
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
74-88-4	Iodomethane	U	5.22	ug/kg	1.67	5.22
75-09-2	Methylene chloride	U	5.22	ug/kg	2.09	5.22
75-15-0	Carbon disulfide	U	5.22	ug/kg	1.30	5.22
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04
78-93-3	2-Butanone	U	5.22	ug/kg	1.56	5.22
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04
108-10-1	4-Methyl-2-pentanone	U	5.22	ug/kg	1.30	5.22
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04
591-78-6	2-Hexanone	U	5.22	ug/kg	1.56	5.22
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8343	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 02:47	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:52	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a231.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.09	ug/kg	0.313	2.09
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.22	ug/kg	1.67	5.22
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	18.67	52.2	ug/kg		J
	Unknown Siloxane	19.69	6.35	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332004

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 5.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8344
 Batch ID: 956739
 Run Date: 02/24/2010 01:04
 Prep Date: 02/23/2010 15:46
 Data File: 7a228.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.360	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.29	ug/kg	1.76	5.29
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.29	ug/kg	1.69	5.29
75-09-2	Methylene chloride	U	5.29	ug/kg	2.11	5.29
75-15-0	Carbon disulfide	U	5.29	ug/kg	1.32	5.29
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.29	ug/kg	1.59	5.29
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.29	ug/kg	1.32	5.29
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.29	ug/kg	1.59	5.29
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332004	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8344	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.1	Dilution: 1
Run Date: 02/24/2010 01:04	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:46	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a228.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.29	ug/kg	1.69	5.29
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	12	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 15:59	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/24/2010 13:39	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a311.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone	J	5.23	ug/kg	1.77	5.33
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.33	ug/kg	1.71	5.33
75-09-2	Methylene chloride	U	5.33	ug/kg	2.13	5.33
75-15-0	Carbon disulfide	U	5.33	ug/kg	1.33	5.33
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.33	ug/kg	1.60	5.33
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.33	ug/kg	1.33	5.33
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.33	ug/kg	1.60	5.33
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.1	Dilution: 1
Run Date: 02/24/2010 15:59	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/24/2010 13:39	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a311.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.320	2.13
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	U	1.07	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.33	ug/kg	1.71	5.33
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	5.43	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332002	Date Received: 02/18/2010 08:45	%Moisture: 10.5
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8346	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/23/2010 23:53	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:38	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a226.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.12	ug/kg	0.380	1.12
74-87-3	Chloromethane	U	1.12	ug/kg	0.335	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.335	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.335	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.335	1.12
67-64-1	Acetone		9.63	ug/kg	1.86	5.59
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
74-88-4	Iodomethane	U	5.59	ug/kg	1.79	5.59
75-09-2	Methylene chloride	U	5.59	ug/kg	2.24	5.59
75-15-0	Carbon disulfide	U	5.59	ug/kg	1.40	5.59
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.335	1.12
78-93-3	2-Butanone	U	5.59	ug/kg	1.68	5.59
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
67-66-3	Chloroform	U	1.12	ug/kg	0.335	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.369	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.335	1.12
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.335	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.335	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.369	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.335	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone	U	5.59	ug/kg	1.40	5.59
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
108-88-3	Toluene	U	1.12	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.335	1.12
591-78-6	2-Hexanone	U	5.59	ug/kg	1.68	5.59
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.335	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.335	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332002

Client ID: RE15-10-8346
 Batch ID: 956739
 Run Date: 02/23/2010 23:53
 Prep Date: 02/23/2010 15:38
 Data File: 7a226.d

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes	U	2.24	ug/kg	0.335	2.24
95-47-6	o-Xylene	U	1.12	ug/kg	0.335	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.335	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.335	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.335	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.59	ug/kg	1.79	5.59
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	10.4	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332003	Date Received: 02/18/2010 08:45	%Moisture: 2.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8347	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.1	Dilution: 1
Run Date: 02/24/2010 15:24	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/24/2010 13:37	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a310.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.03	ug/kg	0.350	1.03
74-87-3	Chloromethane	U	1.03	ug/kg	0.308	1.03
75-01-4	Vinyl chloride	U	1.03	ug/kg	0.308	1.03
74-83-9	Bromomethane	U	1.03	ug/kg	0.308	1.03
75-00-3	Chloroethane	U	1.03	ug/kg	0.308	1.03
75-69-4	Trichlorofluoromethane	U	1.03	ug/kg	0.308	1.03
67-64-1	Acetone	U	5.14	ug/kg	1.71	5.14
75-35-4	1,1-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
74-88-4	Iodomethane	U	5.14	ug/kg	1.65	5.14
75-09-2	Methylene chloride	U	5.14	ug/kg	2.06	5.14
75-15-0	Carbon disulfide	U	5.14	ug/kg	1.29	5.14
156-60-5	trans-1,2-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
75-34-3	1,1-Dichloroethane	U	1.03	ug/kg	0.308	1.03
78-93-3	2-Butanone	U	5.14	ug/kg	1.54	5.14
156-59-2	cis-1,2-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
594-20-7	2,2-Dichloropropane	U	1.03	ug/kg	0.308	1.03
67-66-3	Chloroform	U	1.03	ug/kg	0.308	1.03
74-97-5	Bromochloromethane	U	1.03	ug/kg	0.339	1.03
71-55-6	1,1,1-Trichloroethane	U	1.03	ug/kg	0.308	1.03
563-58-6	1,1-Dichloropropene	U	1.03	ug/kg	0.308	1.03
56-23-5	Carbon tetrachloride	U	1.03	ug/kg	0.308	1.03
107-06-2	1,2-Dichloroethane	U	1.03	ug/kg	0.308	1.03
71-43-2	Benzene	U	1.03	ug/kg	0.308	1.03
79-01-6	Trichloroethylene	U	1.03	ug/kg	0.339	1.03
78-87-5	1,2-Dichloropropane	U	1.03	ug/kg	0.308	1.03
75-27-4	Bromodichloromethane	U	1.03	ug/kg	0.308	1.03
74-95-3	Dibromomethane	U	1.03	ug/kg	0.308	1.03
108-10-1	4-Methyl-2-pentanone	U	5.14	ug/kg	1.29	5.14
10061-01-5	cis-1,3-Dichloropropylene	U	1.03	ug/kg	0.308	1.03
108-88-3	Toluene	U	1.03	ug/kg	0.308	1.03
10061-02-6	trans-1,3-Dichloropropylene	U	1.03	ug/kg	0.308	1.03
79-00-5	1,1,2-Trichloroethane	U	1.03	ug/kg	0.308	1.03
591-78-6	2-Hexanone	U	5.14	ug/kg	1.54	5.14
142-28-9	1,3-Dichloropropane	U	1.03	ug/kg	0.308	1.03
127-18-4	Tetrachloroethylene	U	1.03	ug/kg	0.308	1.03
124-48-1	Dibromochloromethane	U	1.03	ug/kg	0.308	1.03
106-93-4	1,2-Dibromoethane	U	1.03	ug/kg	0.308	1.03
108-90-7	Chlorobenzene	U	1.03	ug/kg	0.308	1.03

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332003	Date Received: 02/18/2010 08:45	%Moisture: 2.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8347	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7J	Dilution: 1
Run Date: 02/24/2010 15:24	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/24/2010 13:37	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a310.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.03	ug/kg	0.308	1.03
179601-23-1	m,p-Xylenes	U	2.06	ug/kg	0.308	2.06
95-47-6	o-Xylene	U	1.03	ug/kg	0.308	1.03
100-42-5	Styrene	U	1.03	ug/kg	0.308	1.03
75-25-2	Bromoform	U	1.03	ug/kg	0.308	1.03
79-34-5	1,1,2,2-Tetrachloroethane	U	1.03	ug/kg	0.308	1.03
96-18-4	1,2,3-Trichloropropane	U	1.03	ug/kg	0.308	1.03
108-86-1	Bromobenzene	U	1.03	ug/kg	0.308	1.03
103-65-1	n-Propylbenzene	U	1.03	ug/kg	0.308	1.03
95-49-8	2-Chlorotoluene	U	1.03	ug/kg	0.308	1.03
98-82-8	Isopropylbenzene	U	1.03	ug/kg	0.308	1.03
108-67-8	1,3,5-Trimethylbenzene	U	1.03	ug/kg	0.308	1.03
106-43-4	4-Chlorotoluene	U	1.03	ug/kg	0.308	1.03
98-06-6	tert-Butylbenzene	U	1.03	ug/kg	0.308	1.03
95-63-6	1,2,4-Trimethylbenzene	U	1.03	ug/kg	0.308	1.03
135-98-8	sec-Butylbenzene	U	1.03	ug/kg	0.308	1.03
99-87-6	4-Isopropyltoluene	U	1.03	ug/kg	0.308	1.03
541-73-1	1,3-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03
106-46-7	1,4-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03
104-51-8	n-Butylbenzene	U	1.03	ug/kg	0.308	1.03
96-12-8	1,2-Dibromo-3-chloropropane	U	1.03	ug/kg	0.308	1.03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.14	ug/kg	1.65	5.14
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.03	ug/kg	0.308	1.03
95-50-1	1,2-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	9.18	ug/kg		J
	Unknown Siloxane	21.55	7.95	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 03:22	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:54	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a232.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.359	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.28	ug/kg	1.75	5.28
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.28	ug/kg	1.69	5.28
75-09-2	Methylene chloride	U	5.28	ug/kg	2.11	5.28
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.32	5.28
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.58	5.28
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.32	5.28
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	J	0.319	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.28	ug/kg	1.58	5.28
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7J	Dilution: 1
Run Date: 02/24/2010 03:22	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:54	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a232.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.28	ug/kg	1.69	5.28
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	6.13	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: S
Lab Sample ID: 247332001	Date Received: 02/18/2010 08:45	
Client ID: RE15-10-8385	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/23/2010 23:19	Inst: VOA7.1	Dilution: 1
Prep Date: 02/23/2010 15:36	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a225.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	J	2.52	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	J	0.535	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332001

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AX01
Aliquot: 5 g
Column: DB-624

Matrix: S
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8385
Batch ID: 956739
Run Date: 02/23/2010 23:19
Prep Date: 02/23/2010 15:36
Data File: 7a225.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	5.23	ug/kg		J

QC Summary

Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1905

Matrix Type: SOLID

CAP Column (1) : DB-624

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1202051373	LCS for batch 956738	97	93	97
1202051374	LCS for batch 956738	99	99	96
1202051370	MB for batch 956738	102	98	98
247332001	RE15-10-8385	106	100	99
247332002	RE15-10-8346	106	98	94
247332004	RE15-10-8344	105	97	94
247332006	RE15-10-8342	100	99	94
247332007	RE15-10-8343	103	96	92
247332008	RE15-10-8377	98	96	92
1202051371	RE15-10-8346PS	96	95	93
1202051372	RE15-10-8346PSD	99	94	95
1202065432	LCS for batch 956738	102	92	98
1202065433	LCS for batch 956738	102	99	97
1202065431	MB for batch 956738	110	99	99
247332003	RE15-10-8347	108	99	96
247332005	RE15-10-8345	100	99	95

Surrogate**Acceptance Limits**

DCED4 = 1,2-Dichloroethane-d4

(66%-134%)

TOL = Toluene-d8

(71%-128%)

BFB = Bromofluorobenzene

(65%-130%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 6

SDG Number: 10-1905

Sample Type: Post Spike

Client ID: RE15-10-8346PS

Matrix: R

Lab Sample ID: 1202051371

% Moisture: 10.5

Instrument: VOA7.I

Analysis Date: 02/24/2010 06:17

Dilution: 1

Analyst: AXO1

Pren Batch II 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
75-71-8	PS Dichlorodifluoromethane	50.0	0.00 U	39.3	79	39-148
74-87-3	PS Chloromethane	50.0	0.00 U	40.4	81	42-131
75-01-4	PS Vinyl chloride	50.0	0.00 U	44.5	89	50-127
74-83-9	PS Bromomethane	50.0	0.00 U	41.0	82	26-135
75-00-3	PS Chloroethane	50.0	0.00 U	41.4	83	54-128
75-69-4	PS Trichlorofluoromethane	50.0	0.00 U	39.3	79	55-138
67-64-1	PS Acetone	250	8.62	190	72	20-144
75-35-4	PS 1,1-Dichloroethylene	50.0	0.00 U	40.4	81	55-128
74-88-4	PS Iodomethane	250	0.00 U	198	79	47-132
75-09-2	PS Methylene chloride	50.0	0.00 U	43.1	86	56-123
75-15-0	PS Carbon disulfide	250	0.00 U	174	70	53-133
156-60-5	PS trans-1,2-Dichloroethylene	50.0	0.00 U	39.5	79	57-119
75-34-3	PS 1,1-Dichloroethane	50.0	0.00 U	42.0	84	62-125
78-93-3	PS 2-Butanone	250	0.00 U	181	72	30-150
156-59-2	PS cis-1,2-Dichloroethylene	50.0	0.00 U	40.9	82	60-124
594-20-7	PS 2,2-Dichloropropane	50.0	0.00 U	37.2	74	56-129
67-66-3	PS Chloroform	50.0	0.00 U	41.1	82	62-120
74-97-5	PS Bromochloromethane	50.0	0.00 U	43.7	87	51-135
71-55-6	PS 1,1,1-Trichloroethane	50.0	0.00 U	39.8	80	58-129
563-58-6	PS 1,1-Dichloropropene	50.0	0.00 U	38.8	78	59-126
56-23-5	PS Carbon tetrachloride	50.0	0.00 U	38.8	78	55-132
107-06-2	PS 1,2-Dichloroethane	50.0	0.00 U	42.5	85	54-121

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 6

SDG Number: 10-1905

Sample Type: Post Spike

Client ID: RE15-10-8346PS

Matrix: R

Lab Sample ID: 1202051371

%Moisture: 10.5

Instrument: VOA7.I

Analysis Date: 02/24/2010 06:17

Dilution: 1

Analyst: AXO1

Prep Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
71-43-2	PS Benzene	50.0	0.00	U 41.2	82	58-120
79-01-6	PS Trichloroethylene	50.0	0.00	U 70.5	141 *	54-130
78-87-5	PS 1,2-Dichloropropane	50.0	0.00	U 43.2	86	59-121
75-27-4	PS Bromodichloromethane	50.0	0.00	U 42.0	84	57-130
74-95-3	PS Dibromomethane	50.0	0.00	U 42.4	85	57-124
108-10-1	PS 4-Methyl-2-pentanone	250	0.00	U 205	82	40-137
10061-01-5	PS cis-1,3-Dichloropropylene	50.0	0.00	U 40.0	80	50-131
108-88-3	PS Toluene	50.0	0.00	U 38.2	76	54-119
10061-02-6	PS trans-1,3-Dichloropropylene	50.0	0.00	U 37.3	75	47-133
79-00-5	PS 1,1,2-Trichloroethane	50.0	0.00	U 39.7	79	60-130
591-78-6	PS 2-Hexanone	250	0.00	U 172	69	30-139
142-28-9	PS 1,3-Dichloropropane	50.0	0.00	U 42.7	85	59-125
127-18-4	PS Tetrachloroethylene	50.0	0.00	U 36.5	73	50-126
124-48-1	PS Dibromochloromethane	50.0	0.00	U 40.3	81	54-131
106-93-4	PS 1,2-Dibromoethane	50.0	0.00	U 41.0	82	55-127
108-90-7	PS Chlorobenzene	50.0	0.00	U 37.3	75	50-130
100-41-4	PS Ethylbenzene	50.0	0.00	U 35.6	71	50-121
179601-23-1	PS m,p-Xylenes	100	0.00	U 74.9	75	47-125
95-47-6	PS o-Xylene	50.0	0.00	U 38.4	77	51-127
100-42-5	PS Styrene	50.0	0.00	U 37.3	75	41-136
75-25-2	PS Bromoform	50.0	0.00	U 40.6	81	48-143
79-34-5	PS 1,1,2,2-Tetrachloroethane	50.0	0.00	U 0.759	2 *	52-129

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 6

SDG Number: 10-1905

Sample Type: Post Spike

Client ID: RE15-10-8346PS

Matrix: R

Lab Sample ID: 1202051371

%Moisture: 10.5

Instrument: VOA7.I

Analysis Date: 02/24/2010 06:17

Dilution: 1

Analyst: AXO1

Prep Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
96-18-4	PS 1,2,3-Trichloropropane	50.0	0.00 U	38.2	76	56-139
108-86-1	PS Bromobenzene	50.0	0.00 U	35.0	70	54-125
103-65-1	PS n-Propylbenzene	50.0	0.00 U	32.0	64	46-127
95-49-8	PS 2-Chlorotoluene	50.0	0.00 U	33.3	67	47-130
98-82-8	PS Isopropylbenzene	50.0	0.00 U	34.1	68	42-126
108-67-8	PS 1,3,5-Trimethylbenzene	50.0	0.00 U	33.4	67	44-132
106-43-4	PS 4-Chlorotoluene	50.0	0.00 U	31.3	63	46-127
98-06-6	PS tert-Butylbenzene	50.0	0.00 U	33.2	66	48-136
95-63-6	PS 1,2,4-Trimethylbenzene	50.0	0.00 U	32.8	66	42-132
135-98-8	PS sec-Butylbenzene	50.0	0.00 U	30.9	62	47-130
99-87-6	PS 4-Isopropyltoluene	50.0	0.00 U	31.3	63	36-142
541-73-1	PS 1,3-Dichlorobenzene	50.0	0.00 U	30.3	61	41-130
106-46-7	PS 1,4-Dichlorobenzene	50.0	0.00 U	30.6	61	41-126
104-51-8	PS n-Butylbenzene	50.0	0.00 U	27.5	55	37-136
96-12-8	PS 1,2-Dibromo-3-chloropropane	50.0	0.00 U	37.7	75	42-143
630-20-6	PS 1,1,1,2-Tetrachloroethane	50.0	0.00 U	41.0	82	58-127
95-50-1	PS 1,2-Dichlorobenzene	50.0	0.00 U	30.4	61	42-128

Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 6

SDG Number: 10-1905

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8346PSD

Matrix: R

Lab Sample ID: 1202051372

% Moisture: 10.5

Instrument: VOA7.I

Analysis Date: 02/24/2010 06:51

Dilution: 1

Analyst: AXO1

Pren Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
75-71-8	PSD Dichlorodifluoromethane	50.0	0.00	U 29.0	58	39-148	30 *	0-19
74-87-3	PSD Chloromethane	50.0	0.00	U 26.6	53	42-131	41 *	0-23
75-01-4	PSD Vinyl chloride	50.0	0.00	U 28.6	57	50-127	44 *	0-23
74-83-9	PSD Bromomethane	50.0	0.00	U 27.6	55	26-135	39 *	0-22
75-00-3	PSD Chloroethane	50.0	0.00	U 29.1	58	54-128	35 *	0-25
75-69-4	PSD Trichlorofluoromethane	50.0	0.00	U 28.4	57	55-138	32 *	0-21
67-64-1	PSD Acetone	250	8.62	208	80	20-144	9	0-22
75-35-4	PSD 1,1-Dichloroethylene	50.0	0.00	U 29.0	58	55-128	33 *	0-20
74-88-4	PSD Iodomethane	250	0.00	U 140	56	47-132	35 *	0-20
75-09-2	PSD Methylene chloride	50.0	0.00	U 32.7	65	56-123	27 *	0-20
75-15-0	PSD Carbon disulfide	250	0.00	U 107	43 *	53-133	48 *	0-22
156-60-5	PSD trans-1,2-Dichloroethylene	50.0	0.00	U 29.1	58	57-119	30 *	0-20
75-34-3	PSD 1,1-Dichloroethane	50.0	0.00	U 32.2	64	62-125	26 *	0-20
78-93-3	PSD 2-Butanone	250	0.00	U 194	78	30-150	7	0-21
156-59-2	PSD cis-1,2-Dichloroethylene	50.0	0.00	U 32.1	64	60-124	24 *	0-20
594-20-7	PSD 2,2-Dichloropropane	50.0	0.00	U 28.9	58	56-129	25 *	0-20
67-66-3	PSD Chloroform	50.0	0.00	U 31.7	63	62-120	26 *	0-25
74-97-5	PSD Bromochloromethane	50.0	0.00	U 36.6	73	51-135	18	0-20
71-55-6	PSD 1,1,1-Trichloroethane	50.0	0.00	U 31.3	63	58-129	24 *	0-20
563-58-6	PSD 1,1-Dichloropropene	50.0	0.00	U 28.6	57 *	59-126	31 *	0-20
56-23-5	PSD Carbon tetrachloride	50.0	0.00	U 28.3	57	55-132	31 *	0-20
107-06-2	PSD 1,2-Dichloroethane	50.0	0.00	U 37.5	75	54-121	12	0-20

Volatile
Quality Control Summary
Spike Recovery Report

Page 5 of 6

SDG Number: 10-1905

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8346PSD

Matrix: R

Lab Sample ID: 1202051372

%Moisture: 10.5

Instrument: VOA7.I

Analysis Date: 02/24/2010 06:51

Dilution: 1

Analyst: AXO1

Pren Batch II 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
71-43-2	PSD Benzene	50.0	0.00	U 31.7	63	58-120	26 *	0-20
79-01-6	PSD Trichloroethylene	50.0	0.00	U 55.9	112	54-130	23	0-23
78-87-5	PSD 1,2-Dichloropropane	50.0	0.00	U 36.0	72	59-121	18	0-20
75-27-4	PSD Bromodichloromethane	50.0	0.00	U 34.6	69	57-130	19	0-20
74-95-3	PSD Dibromomethane	50.0	0.00	U 38.1	76	57-124	11	0-20
108-10-1	PSD 4-Methyl-2-pentanone	250	0.00	U 216	86	40-137	5	0-25
10061-01-5	PSD cis-1,3-Dichloropropylene	50.0	0.00	U 33.3	67	50-131	18	0-20
108-88-3	PSD Toluene	50.0	0.00	U 29.7	59	54-119	25 *	0-23
10061-02-6	PSD trans-1,3-Dichloropropylene	50.0	0.00	U 31.8	64	47-133	16	0-24
79-00-5	PSD 1,1,2-Trichloroethane	50.0	0.00	U 33.2	66	60-130	18	0-20
591-78-6	PSD 2-Hexanone	250	0.00	U 181	72	30-139	5	0-21
142-28-9	PSD 1,3-Dichloropropane	50.0	0.00	U 37.9	76	59-125	12	0-20
127-18-4	PSD Tetrachloroethylene	50.0	0.00	U 27.7	55	50-126	27 *	0-20
124-48-1	PSD Dibromochloromethane	50.0	0.00	U 35.4	71	54-131	13	0-23
106-93-4	PSD 1,2-Dibromoethane	50.0	0.00	U 38.9	78	55-127	5	0-23
108-90-7	PSD Chlorobenzene	50.0	0.00	U 30.9	62	50-130	19	0-24
100-41-4	PSD Ethylbenzene	50.0	0.00	U 29.3	59	50-121	19	0-24
179601-23-1	PSD m,p-Xylenes	100	0.00	U 60.2	60	47-125	22	0-25
95-47-6	PSD o-Xylene	50.0	0.00	U 31.7	63	51-127	19	0-24
100-42-5	PSD Styrene	50.0	0.00	U 30.7	61	41-136	19	0-24
75-25-2	PSD Bromoform	50.0	0.00	U 39.7	79	48-143	2	0-20
79-34-5	PSD 1,1,2,2-Tetrachloroethane	50.0	0.00	U 0.783	2 *	52-129	3	0-20

Volatile
Quality Control Summary
Spike Recovery Report

Page 6 of 6

SDG Number: 10-1905

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8346PSD

Matrix: R

Lab Sample ID: 1202051372

%Moisture: 10.5

Instrument: VOA7.I

Analysis Date: 02/24/2010 06:51

Dilution: 1

Analyst: AXO1

Pre Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD	Acceptance Limits
96-18-4	PSD 1,2,3-Trichloropropane	50.0	0.00	U 39.2	78	56-139	3	0-34
108-86-1	PSD Bromobenzene	50.0	0.00	U 32.2	64	54-125	8	0-22
103-65-1	PSD n-Propylbenzene	50.0	0.00	U 27.3	55	46-127	16	0-25
95-49-8	PSD 2-Chlorotoluene	50.0	0.00	U 28.3	57	47-130	16	0-24
98-82-8	PSD Isopropylbenzene	50.0	0.00	U 28.8	58	42-126	17	0-22
108-67-8	PSD 1,3,5-Trimethylbenzene	50.0	0.00	U 27.9	56	44-132	18	0-25
106-43-4	PSD 4-Chlorotoluene	50.0	0.00	U 27.4	55	46-127	14	0-26
98-06-6	PSD tert-Butylbenzene	50.0	0.00	U 28.9	58	48-136	14	0-24
95-63-6	PSD 1,2,4-Trimethylbenzene	50.0	0.00	U 28.4	57	42-132	14	0-26
135-98-8	PSD sec-Butylbenzene	50.0	0.00	U 25.4	51	47-130	20	0-27
99-87-6	PSD 4-Isopropyltoluene	50.0	0.00	U 26.7	53	36-142	16	0-27
541-73-1	PSD 1,3-Dichlorobenzene	50.0	0.00	U 26.7	53	41-130	12	0-25
106-46-7	PSD 1,4-Dichlorobenzene	50.0	0.00	U 26.9	54	41-126	13	0-25
104-51-8	PSD n-Butylbenzene	50.0	0.00	U 24.0	48	37-136	14	0-29
96-12-8	PSD 1,2-Dibromo-3-chloropropane	50.0	0.00	U 35.7	71	42-143	5	0-21
630-20-6	PSD 1,1,1,2-Tetrachloroethane	50.0	0.00	U 33.8	68	58-127	19	0-20
95-50-1	PSD 1,2-Dichlorobenzene	50.0	0.00	U 28.3	57	42-128	7	0-24

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 3

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID: 1202051373

Instrument: VOA7.I

Analysis Date: 02/23/2010 20:30

Dilution: 1

Analyst: AXO1

Pre Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
75-71-8	LCS Dichlorodifluoromethane	50.0	0.0	42.8	86	52-151
74-87-3	LCS Chloromethane	50.0	0.0	40.0	80	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	42.4	85	66-130
74-83-9	LCS Bromomethane	50.0	0.0	45.2	90	70-126
75-00-3	LCS Chloroethane	50.0	0.0	45.0	90	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	46.7	93	73-143
67-64-1	LCS Acetone	250	0.0	180	72	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	42.8	86	71-129
74-88-4	LCS Iodomethane	250	0.0	228	91	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	44.3	89	64-121
75-15-0	LCS Carbon disulfide	250	0.0	221	88	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	43.2	86	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	46.1	92	73-120
78-93-3	LCS 2-Butanone	250	0.0	185	74	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	43.8	88	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	47.5	95	73-134
67-66-3	LCS Chloroform	50.0	0.0	44.4	89	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	45.5	91	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	48.0	96	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	46.0	92	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	46.5	93	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	44.0	88	65-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 3

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID: 1202051373

Instrument: VOA7.I

Analysis Date: 02/23/2010 20:30

Dilution: 1

Analyst: AXO1

Pre Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
71-43-2	LCS Benzene	50.0	0.0	43.7	87	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	46.9	94	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	44.6	89	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	47.3	95	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	47.1	94	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	214	86	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	46.8	94	78-127
108-88-3	LCS Toluene	50.0	0.0	43.7	87	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	46.4	93	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	43.6	87	75-120
591-78-6	LCS 2-Hexanone	250	0.0	171	68	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	44.7	89	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	43.3	87	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	46.6	93	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	46.1	92	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	43.4	87	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	40.9	82	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	88.3	88	76-120
95-47-6	LCS o-Xylene	50.0	0.0	45.6	91	76-122
100-42-5	LCS Styrene	50.0	0.0	45.5	91	75-125
75-25-2	LCS Bromoform	50.0	0.0	48.1	96	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	42.2	84	72-122

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 3

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID: 1202051373

Instrument: VOA7.I

Analysis Date: 02/23/2010 20:30

Dilution: 1

Analyst: AXO1

Prep Batch II 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
96-18-4	LCS 1,2,3-Trichloropropane	50.0	0.0	44.4	89	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	44.8	90	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	40.3	81	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	41.9	84	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	41.3	83	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	43.7	87	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	42.0	84	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	43.7	87	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	43.8	88	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	42.6	85	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	43.8	88	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	42.8	86	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	43.6	87	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	42.2	84	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	45.5	91	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	46.7	93	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	43.9	88	75-120

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID:1202051374

Instrument: VOA7.I

Analysis Date: 02/23/2010 21:37

Dilution: 1

Analyst: AXO1

Prep Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
76-13-1	LCS 1,1,2-Trichloro-1,2,2-Trifluor Trichlorotrifluoroethane	250	0.0	235	94	67-140

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 3

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID: 1202065432

Instrument: VOA7.I

Analysis Date: 02/24/2010 11:59

Dilution: 1

Analyst: AXO1

Pre Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
75-71-8	LCS Dichlorodifluoromethane	50.0	0.0	44.1	88	52-151
74-87-3	LCS Chloromethane	50.0	0.0	39.5	79	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	43.1	86	66-130
74-83-9	LCS Bromomethane	50.0	0.0	45.9	92	70-126
75-00-3	LCS Chloroethane	50.0	0.0	46.6	93	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	48.5	97	73-143
67-64-1	LCS Acetone	250	0.0	199	79	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	45.4	91	71-129
74-88-4	LCS Iodomethane	250	0.0	233	93	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	45.2	90	64-121
75-15-0	LCS Carbon disulfide	250	0.0	225	90	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	44.2	88	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	46.3	93	73-120
78-93-3	LCS 2-Butanone	250	0.0	199	80	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	44.4	89	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	49.5	99	73-134
67-66-3	LCS Chloroform	50.0	0.0	45.5	91	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	46.6	93	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	49.5	99	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	47.0	94	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	49.0	98	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	45.4	91	65-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 3

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID: 1202065432

Instrument: VOA7.I

Analysis Date: 02/24/2010 11:59

Dilution: 1

Analyst: AXO1

Prep Batch II 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
71-43-2	LCS Benzene	50.0	0.0	44.6	89	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	47.0	94	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	44.9	90	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	47.9	96	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	48.9	98	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	226	91	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	49.1	98	78-127
108-88-3	LCS Toluene	50.0	0.0	43.4	87	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	47.4	95	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	44.5	89	75-120
591-78-6	LCS 2-Hexanone	250	0.0	180	72	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	45.2	90	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	42.8	86	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	48.2	96	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	47.2	94	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	44.0	88	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	40.9	82	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	88.5	88	76-120
95-47-6	LCS o-Xylene	50.0	0.0	45.2	90	76-122
100-42-5	LCS Styrene	50.0	0.0	45.7	91	75-125
75-25-2	LCS Bromoform	50.0	0.0	49.8	100	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	44.2	88	72-122

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID: 1202065432

Instrument: VOA7.1

Analysis Date: 02/24/2010 11:59

Dilution: 1

Analyst: AXO1

Pren Batch II 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
96-18-4	LCS 1,2,3-Trichloropropane	50.0	0.0	45.6	91	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	45.2	90	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	40.5	81	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	42.0	84	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	41.3	83	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	43.6	87	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	42.5	85	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	44.0	88	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	43.2	86	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	42.9	86	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	44.5	89	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	42.9	86	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	43.5	87	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	43.5	87	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	48.9	98	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	46.8	94	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	44.7	89	75-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 1

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956738

Matrix: SOIL

Lab Sample ID: 1202065433

Instrument: VOA7.I

Analysis Date: 02/24/2010 13:07

Dilution: 1

Analyst: AXO1

Prep Batch ID: 956738

Purge Vol: 5 mL

Batch ID: 956739

CAS No	Paramname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
76-13-1	LCS 1,1,2-Trichloro-1,2,2-Trifluor <i>Trichlorotrifluoroethane</i>	250	0.0	258	103	67-140

Method Blank Summary

Page 1 of 1

SDG Number:	10-1905	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 956738	Instrument ID:	VOA7.I	Data File:	7a224ll.d
Lab Sample ID:	1202051370	Prep Date:	02/23/2010 15:00	Analyzed:	02/23/10 22:45
Column:	DB-624	Heated Purge:	Yes		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 956738	1202051373	7a220ll.d	02/23/10	2030
02 LCS for batch 956738	1202051374	7a222ll.d	02/23/10	2137
03 RE15-10-8385	247332001	7a225.d	02/23/10	2319
04 RE15-10-8346	247332002	7a226.d	02/23/10	2353
05 RE15-10-8344	247332004	7a228.d	02/24/10	0104
06 RE15-10-8342	247332006	7a230.d	02/24/10	0212
07 RE15-10-8343	247332007	7a231.d	02/24/10	0247
08 RE15-10-8377	247332008	7a232.d	02/24/10	0322
09 RE15-10-8346PS	1202051371	7a237.d	02/24/10	0617
10 RE15-10-8346PSD	1202051372	7a238.d	02/24/10	0651

Method Blank Summary

Page 1 of 1

SDG Number:	10-1905	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 956738	Instrument ID:	VOA7.I	Data File:	7a308ll.d
Lab Sample ID:	1202065431	Prep Date:	02/24/2010 10:00	Analyzed:	02/24/10 14:15
Column:	DB-624	Heated Purge:	Yes		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 956738	1202065432	7a304ll.d	02/24/10	1159
02 LCS for batch 956738	1202065433	7a306ll.d	02/24/10	1307
03 RE15-10-8347	247332003	7a310.d	02/24/10	1524
04 RE15-10-8345	247332005	7a311.d	02/24/10	1559

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: VOA7.J

Injection Date/Time: 17-FEB-10 15:29

Column Description: db624

Lab File ID /021710v7/7z309.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	30.8
75	30.0 - 60.0% of mass 95	54.2
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6
174	50.0 - 100.0% of mass 95	63
175	5.0 - 9.0% of mass 174	7.2
176	95.0 - 101.0% of mass 174	97.2
177	5.0 - 9.0% of mass 176	6.9

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
VSTD001	W7VM100217-06	7z310.d	17-FEB-10 16:02
VSTD002	W7VM100217-07	7z311.d	17-FEB-10 16:35
VSTD005	W7VM100217-08	7z312.d	17-FEB-10 17:09
VSTD010	W7VM100217-09	7z313.d	17-FEB-10 17:44
VSTD020	W7VM100217-10	7z314.d	17-FEB-10 18:20
VSTD050	W7VM100217-11	7z315.d	17-FEB-10 18:55
VSTD100	W7VM100217-12	7z316.d	17-FEB-10 19:30
VSTD0005	W7VM100217-13	7z318.d	17-FEB-10 20:39
VSTD005S	W7VM100217-14	7z319.d	17-FEB-10 21:14
VSTD010S	W7VM100217-15	7z320.d	17-FEB-10 21:49
VSTD025S	W7VM100217-16	7z321.d	17-FEB-10 22:24
VSTD050S	W7VM100217-17	7z322.d	17-FEB-10 22:59
VSTD100S	W7VM100217-18	7z323.d	17-FEB-10 23:33
VSTD250S	W7VM100217-19	7z324.d	18-FEB-10 00:08
VSTD500S	W7VM100217-20	7z325.d	18-FEB-10 00:42
ICV	W7VM100217-22	7z328.d	18-FEB-10 02:27
SICV	W7VM100217-23	7z329.d	18-FEB-10 03:03

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: VOA7.I

Injection Date/Time: 23-FEB-10 19:23

Column Description: db624

Lab File ID /022310v7/7a218BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	29
75	30.0 - 60.0% of mass 95	54.7
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5
174	50.0 - 100.0% of mass 95	66.7
175	5.0 - 9.0% of mass 174	7.4
176	95.0 - 101.0% of mass 174	97.1
177	5.0 - 9.0% of mass 176	7.4

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
VSTD050	W7VM100223-01	7a218.d	23-FEB-10 19:23
LCS	1202051373	7a220ll.d	23-FEB-10 20:30
VSTD250S	W7VM100223-04	7a221.d	23-FEB-10 21:04
SLCS	1202051374	7a222ll.d	23-FEB-10 21:37
BLANK	1202051370	7a224ll.d	23-FEB-10 22:45
RE15-10-8385	247332001	7a225.d	23-FEB-10 23:19
RE15-10-8346	247332002	7a226.d	23-FEB-10 23:53
RE15-10-8344	247332004	7a228.d	24-FEB-10 01:04
RE15-10-8342	247332006	7a230.d	24-FEB-10 02:12
RE15-10-8343	247332007	7a231.d	24-FEB-10 02:47
RE15-10-8377	247332008	7a232.d	24-FEB-10 03:22
RE15-10-8346MS	1202051371	7a237.d	24-FEB-10 06:17
RE15-10-8346MSD	1202051372	7a238.d	24-FEB-10 06:51

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: VOA7.I

Injection Date/Time: 24-FEB-10 10:51

Column Description: db624

Lab File ID /022410v7/7a302BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	28.5
75	30.0 - 60.0% of mass 95	53.4
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.5
174	50.0 - 100.0% of mass 95	66.4
175	5.0 - 9.0% of mass 174	7.3
176	95.0 - 101.0% of mass 174	96.3
177	5.0 - 9.0% of mass 176	7

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
VSTD050	W7VM100224-01	7a302.d	24-FEB-10 10:51
LCS	1202065432	7a304II.d	24-FEB-10 11:59
VSTD250S	W7VM100224-04	7a305.d	24-FEB-10 12:33
SLCS	1202065433	7a306II.d	24-FEB-10 13:07
BLANK	1202065431	7a308II.d	24-FEB-10 14:15
RE15-10-8347	247332003	7a310.d	24-FEB-10 15:24
RE15-10-8345	247332005	7a311.d	24-FEB-10 15:59

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1905

Instrument: VOA7.1

STD Analysis Time: 23-FEB-10 19:23

GC Column: DB-624

Data File: 7a218.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	953093		15.3	720451		18.7	360058		21.0
Upper Limit	1906186		15.8	1440902		19.2	720116		21.5
Lower Limit	476547		14.8	360226		18.2	180029		20.5
Sample ID									
BLK01LCS	1088491		15.3	818888		18.7	409430		21.0
BLK01SLCS	1131225		15.3	792646		18.7	396360		21.0
BLK01	1013136		15.3	722262		18.7	344727		21.0
RE15-10-8385	913182		15.3	657760		18.7	314647		21.0
RE15-10-8346	905561		15.3	659705		18.7	321035		21.0
RE15-10-8344	883355		15.3	639489		18.7	311511		21.0
RE15-10-8342	738819		15.3	519478		18.7	248686		21.0
RE15-10-8343	770203		15.3	565300		18.7	283360		21.0
RE15-10-8377	594868		15.3	429250		18.7	195686		21.0
RE15-10-8346MS	819911		15.3	618022		18.7	310119		21.0
RE15-10-8346MSD	559543		15.3	423884		18.7	207503		21.0

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 values outside QC limits with an asterisk

* Value outside of QC Limits

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1905

Instrument: VOA7.1

STD Analysis Time: 24-FEB-10 10:51

GC Column: DB-624

Data File: 7a302.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	943299		15.3	717031		18.7	374293		21.0
Upper Limit	1886598		15.8	1434062		19.2	748586		21.5
Lower Limit	471650		14.8	358516		18.2	187147		20.5
Sample ID									
BLK02LCS	1028640		15.3	792257		18.7	396872		21.0
BLK02SLCS	1106631		15.3	789464		18.7	398542		21.0
BLK02	966921		15.3	691748		18.7	338261		21.0
RE15-10-8347	694573		15.3	510939		18.7	243446		21.0
RE15-10-8345	565078		15.3	401733		18.7	179150	*	21.0

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 values outside QC limits with an asterisk

* Value outside of QC Limits

Sample Data

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8342	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 02:12	Inst: VOA7.I	Dilution: 1
Prep Date: 02/23/2010 15:50	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a230.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.359	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.29	ug/kg	1.75	5.29
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.29	ug/kg	1.69	5.29
75-09-2	Methylene chloride	U	5.29	ug/kg	2.11	5.29
75-15-0	Carbon disulfide	U	5.29	ug/kg	1.32	5.29
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.29	ug/kg	1.59	5.29
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.29	ug/kg	1.32	5.29
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.29	ug/kg	1.59	5.29
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332006

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.1
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane <i>Trichlorotrifluoroethane</i>	U	5.29	ug/kg	1.69	5.29
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	11.9	ug/kg		J
	Unknown Siloxane	21.55	8.07	ug/kg		J

Data File: /chem/VOA7.i/022310v7/7a230.d
 Report Date: 08-Mar-2010 14:07

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a230.d

Lab Smp Id: 247332006

Client Smp ID: RE15-10-8342

Inj Date : 24-FEB-2010 02:12

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247332006|956739|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 30

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.39600	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
=====	=====	==	=====	=====	=====	(ug/l)	(ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	738819	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	519478	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	248686	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	319081	49.9874	52.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	833124	49.2757	52.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	308609	47.1764	49.9

ION RATIO REPORT

VOA REPORT

Data file: 7a230.d

Report Date: 02/24/2010 09:27

Lab. ID: 247332006

SampleType: SAMPLE

Injection Date: 24-FEB-2010 02:12

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332006|956739|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10286	17.13	16.93	80-120	100	(T)
43	6312	17.13	16.93	221-281	61	(QT)
100	573795	17.13	16.94	0- 57	5578	(QT)

73	1,2-Dibromoethane			CAS#: 106-93-4		
107	10909	18.62	18.22	80-120	100	(T)
109	7658	18.64	18.22	67-127	70	(T)

77	1,1,1,2-Tetrachloroethane			CAS#: 630-20-6		
131	1005	18.63	18.76	80-120	100	(T)
133	8053	18.66	18.76	72-132	801	(QT)
119	182018	18.67	18.76	39- 99	18097	(QT)

78	Ethylbenzene			CAS#: 100-41-4		
91	9412	18.67	18.76	80-120	100	(T)
106	1482	18.67	18.77	1- 61	16	(T)

79	m,p-Xylenes			CAS#:		
106	1974	18.62	18.87	80-120	100	(T)
91	19601	18.64	18.87	165-225	992	(QT)

82	Bromoform			CAS#: 75-25-2		
173	889	19.81	19.54	80-120	100	(T)
175	15104	19.82	19.54	19- 79	1699	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	1963	19.69	19.97	80-120	100	(T)
75	7933	19.68	19.97	315-375	404	(QT)
77	303	19.69	19.97	94-154	15	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/022310v7/7a230.d
Lab Smp Id: 247332006 Client Smp ID: RE15-10-8342
Inj Date : 24-FEB-2010 02:12
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247332006|956739|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.39600	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	2353503	50.000
* 101 1,4-Dichlorobenzene-d4	20.992	1754357	50.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Unknown Siloxane							
19.692	531809	11.2982489	11.9	0		0	75

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
21.550	267980	7.63754323	8.1	0	0	101	

Unknown Siloxane CAS #:

Data File: /chem/V067.i/022310v7/7a230.d

Date : 24-FEB-2010 02:12

Client ID: RE15-10-8342

Sample Info: 1247332006195673911.V067.11

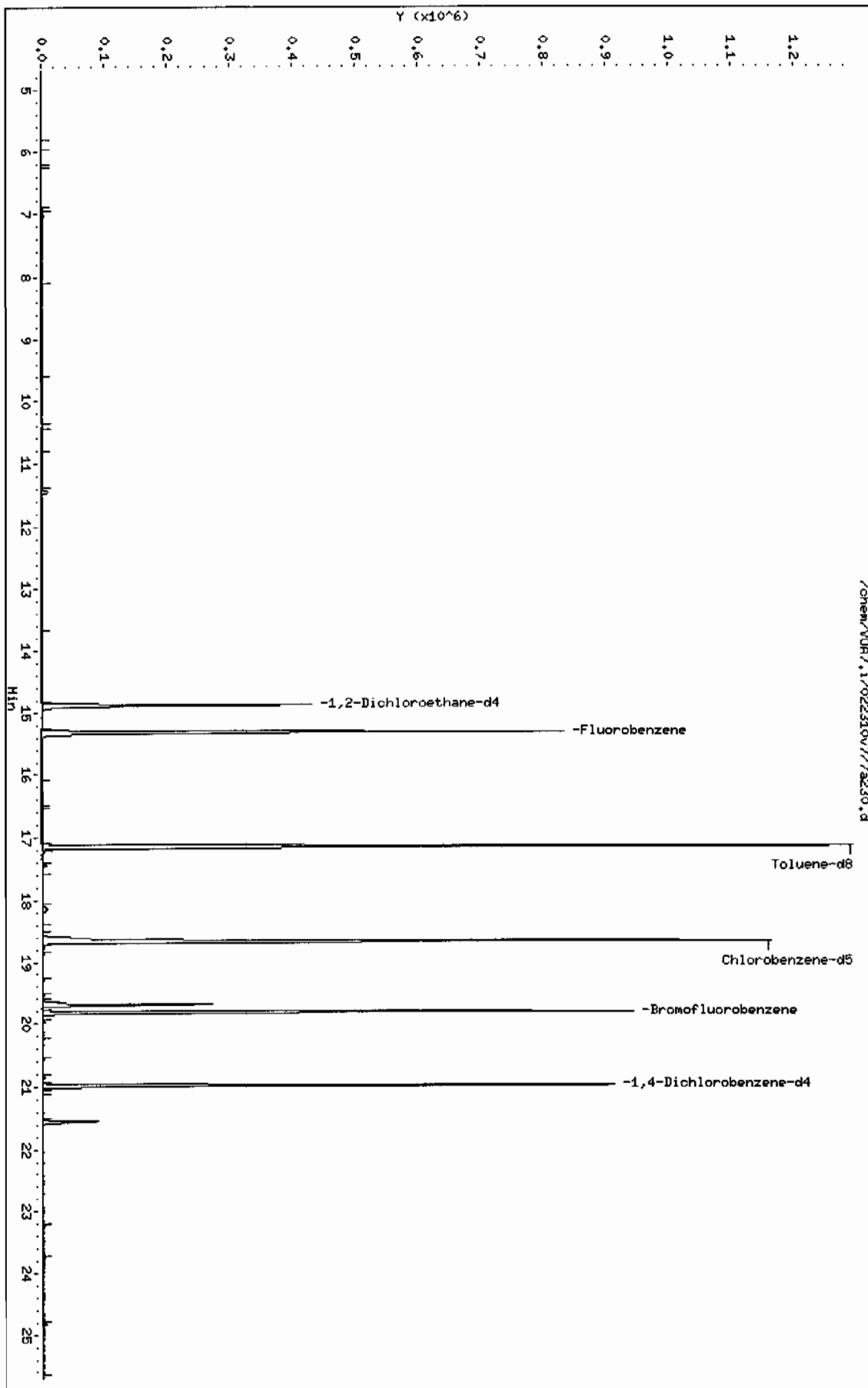
Column phase: DB-624

Instrument: V067.i

Operator: RX01

Column diameter: 0.25

/chem/V067.i/022310v7/7a230.d



Date : 24-FEB-2010 02:12

Client ID: RE15-10-8342

Instrument: VOA7.i

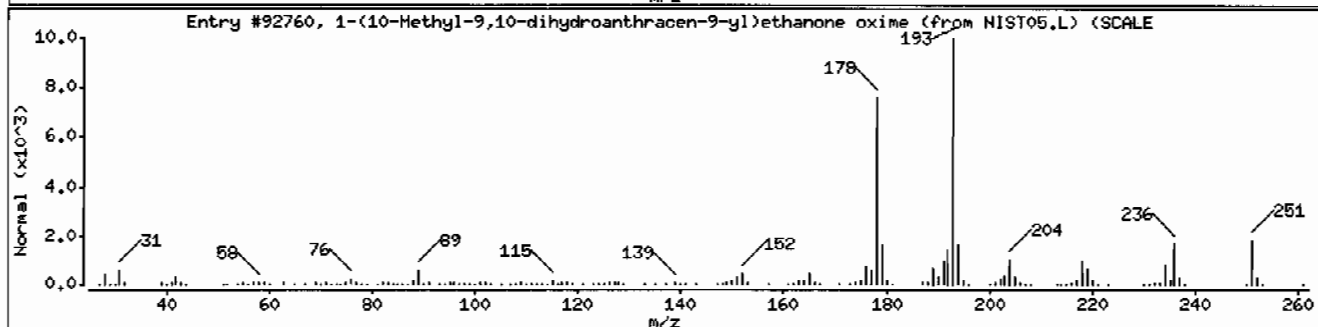
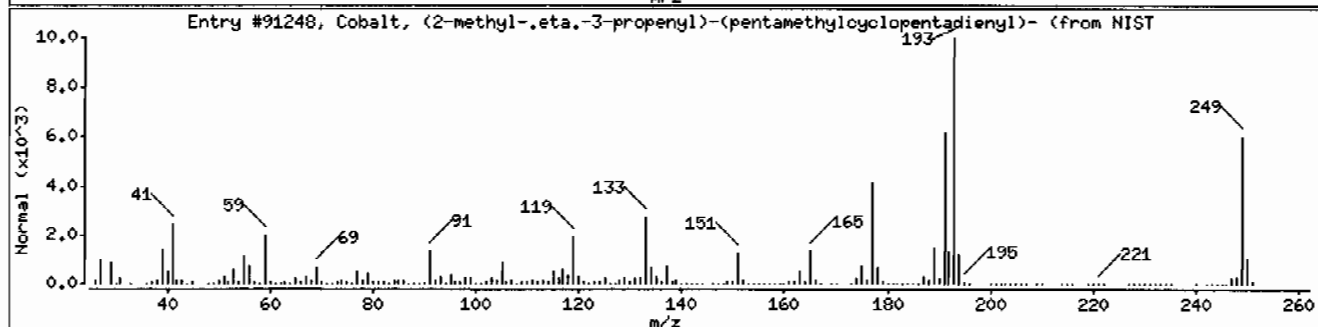
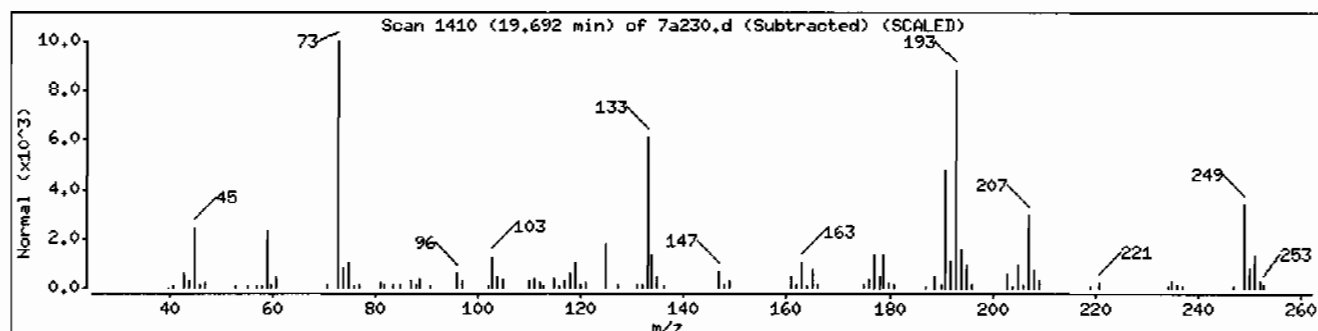
Sample Info: I247332006195673911\VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Silane, (2-ethyl-3,3-dimethyl-4-methylen	95798-13-3	NIST05.L	62897	46	C13H24Si	208
Cobalt, (2-methyl-eta.-3-propenyl)-(pen	1000157-04-3	NIST05.L	91248	43	C14H22Co	249
1-(10-Methyl-9,10-dihydroanthracen-9-yl)	1000210-33-6	NIST05.L	92760	27	C17H17NO	251



Date : 24-FEB-2010 02:12

Client ID: RE15-10-8342

Instrument: VOA7.i

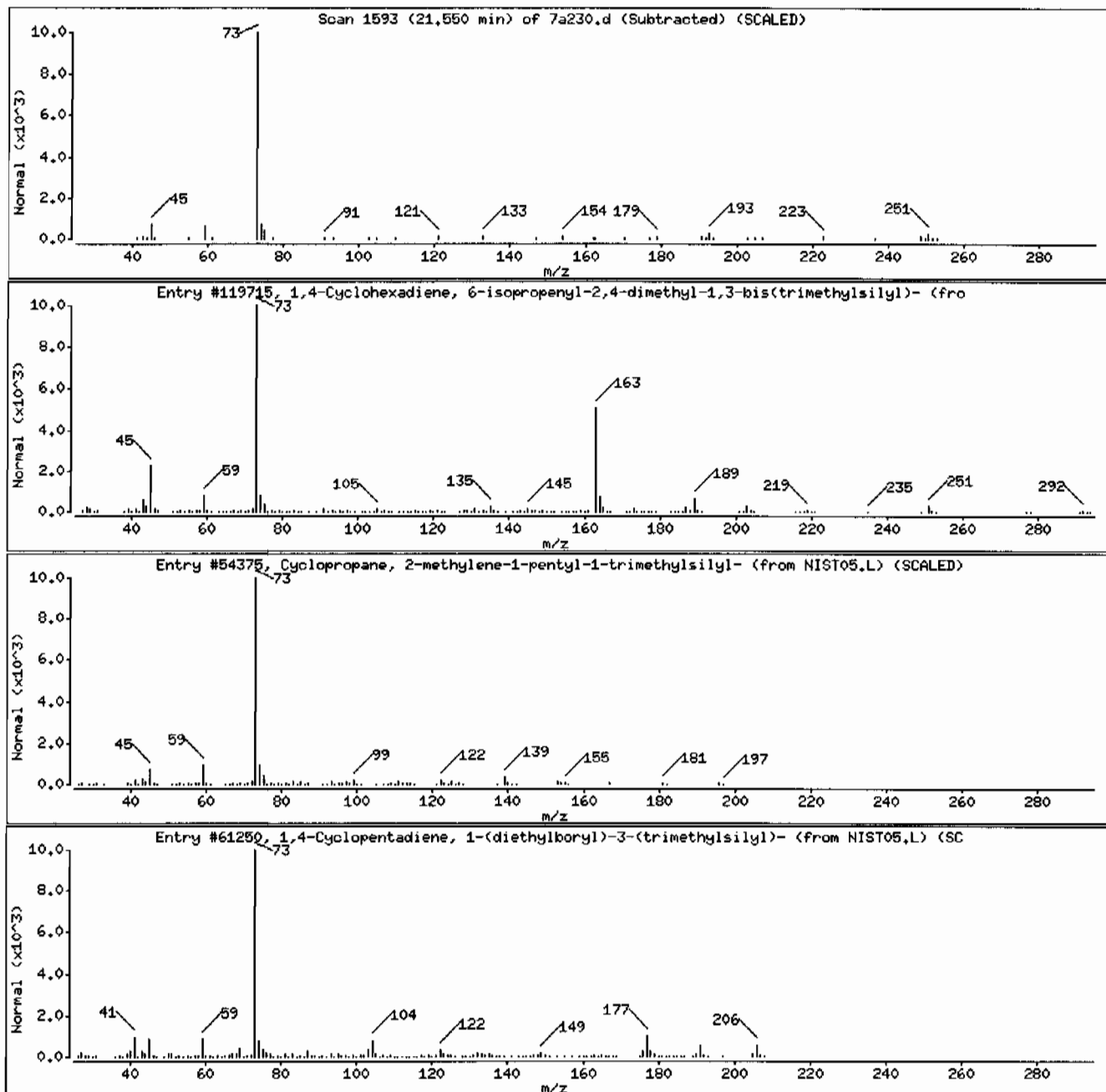
Sample Info: I2473320061956739111VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
1,4-Cyclohexadiene, 6-isopropenyl-2,4-di	1000160-89-8	NIST05.L	119715	33	C17H32Si2	292
Cyclopropane, 2-methylene-1-pentyl-1-tri	167300-47-2	NIST05.L	54375	26	C12H24Si	196
1,4-Cyclopentadiene, 1-(diethylboryl)-3-	1000164-14-1	NIST05.L	61250	25	C12H23BSi	206



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8343	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.1	Dilution: 1
Run Date: 02/24/2010 02:47	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:52	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a231.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.04	ug/kg	0.355	1.04
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04
67-64-1	Acetone	U	5.22	ug/kg	1.73	5.22
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
74-88-4	Iodomethane	U	5.22	ug/kg	1.67	5.22
75-09-2	Methylene chloride	U	5.22	ug/kg	2.09	5.22
75-15-0	Carbon disulfide	U	5.22	ug/kg	1.30	5.22
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04
78-93-3	2-Butanone	U	5.22	ug/kg	1.56	5.22
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04
108-10-1	4-Methyl-2-pentanone	U	5.22	ug/kg	1.30	5.22
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04
591-78-6	2-Hexanone	U	5.22	ug/kg	1.56	5.22
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8343	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.1	Dilution: 1
Run Date: 02/24/2010 02:47	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:52	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a231.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.09	ug/kg	0.313	2.09
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.22	ug/kg	1.67	5.22
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	18.67	52.2	ug/kg		J
	Unknown Siloxane	19.69	6.35	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a231.d

Lab Smp Id: 247332007

Client Smp ID: RE15-10-8343

Inj Date : 24-FEB-2010 02:47

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247332007|956739|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 31

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	4.13400	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	770203	50.0000
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	565300	50.0000
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	283360	50.0000
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	343099	51.5599 53.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	884644	48.0817 50.2
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	343255	46.0517 48.0

ION RATIO REPORT

VOA REPORT

Data file: 7a231.d

Report Date: 02/24/2010 09:27

Lab. ID: 247332007

SampleType: SAMPLE

Injection Date: 24-FEB-2010 02:47

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332007|956739|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10631	17.13	16.93	80-120	100	(T)
43	7210	17.13	16.93	221-281	68	(QT)
100	592839	17.13	16.94	0- 57	5576	(QT)

73	1,2-Dibromoethane			CAS#: 106-93-4		
107	2336	18.16	18.22	80-120	100	(T)
109	1013	18.15	18.22	67-127	43	(QT)

77	1,1,1,2-Tetrachloroethane			CAS#: 630-20-6		
131	1585	18.67	18.76	80-120	100	(T)
133	49010	18.64	18.76	72-132	3092	(QT)
119	244753	18.67	18.76	39- 99	15440	(QT)

78	Ethylbenzene			CAS#: 100-41-4		
91	131033	18.62	18.76	80-120	100	(T)
106	30595	18.62	18.77	1- 61	23	(T)

79	m,p-Xylenes			CAS#:		
106	30595	18.62	18.87	80-120	100	(T)
91	131033	18.62	18.87	165-225	428	(QT)

89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	2286	19.69	19.97	80-120	100	(T)
75	8016	19.69	19.97	315-375	351	(T)
77	598	19.70	19.97	94-154	26	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/022310v7/7a231.d
 Lab Smp Id: 247332007 Client Smp ID: RE15-10-8343
 Inj Date : 24-FEB-2010 02:47
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |247332007|956739|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
 Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 31
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	4.13400	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	4348009	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Hydrocarbon					CAS #:		
18.667	4348010	50.0000000	52.2	0		0	75 (L)
Unknown Siloxane					CAS #:		
19.692	529354	6.08731735	6.3	0		0	75

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ug/l)	FINAL(ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/V007.i/022310v7/7a231.d

Date: 24-FEB-2010 02:47

Client ID: REIS-10-8343

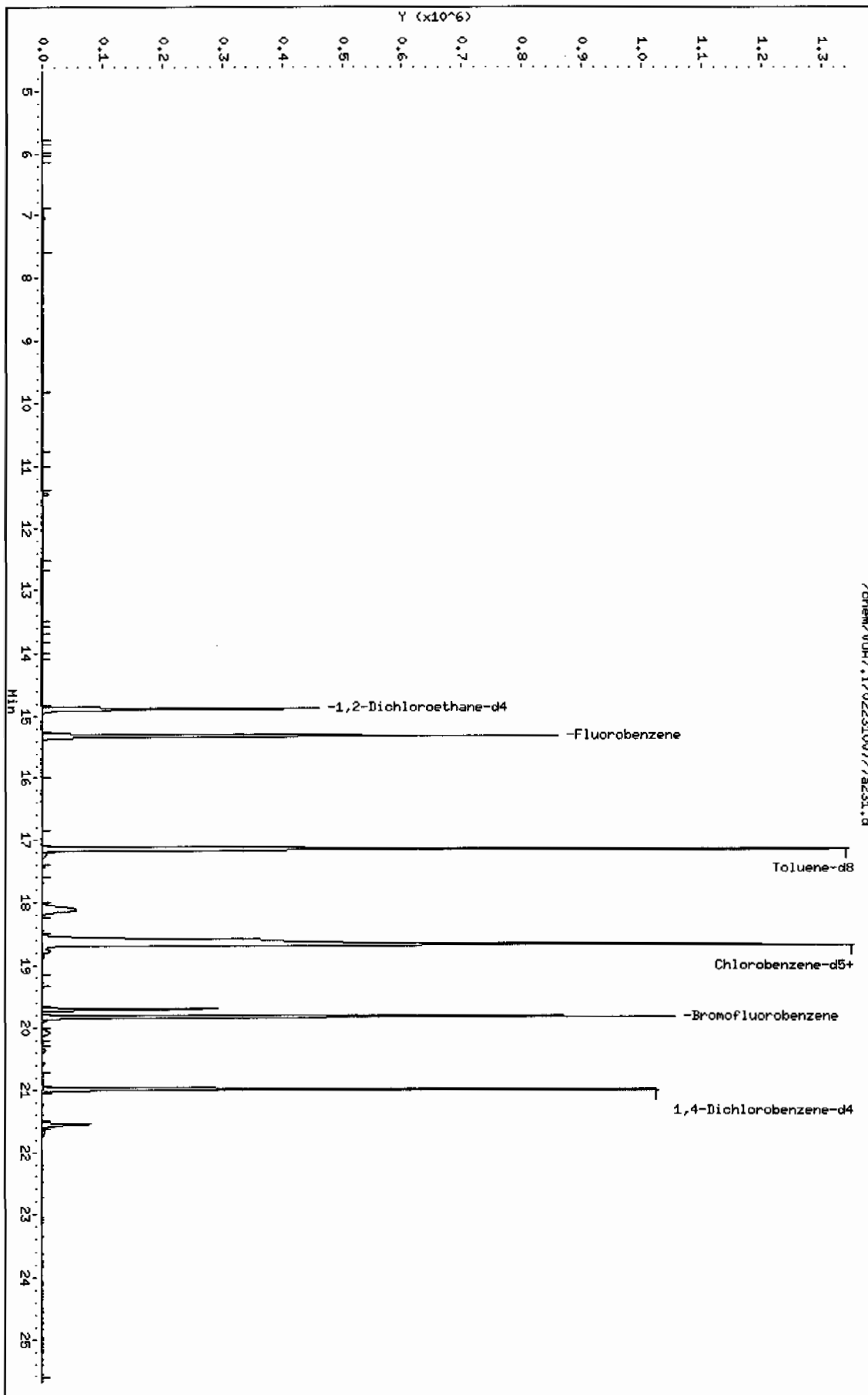
Sample Info: 1247332007/95673911/V007.i.1

Column phase: DB-624

Instrument: V007.i

Operator: RX01

Column diameter: 0.25



Data File: /chem/VOA7.i/022310v7/7a231.d

Page 1

Date : 24-FEB-2010 02:47

Client ID: RE15-10-8343

Instrument: VOA7.i

Sample Info: 1247332007195673911\VOAF11

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match

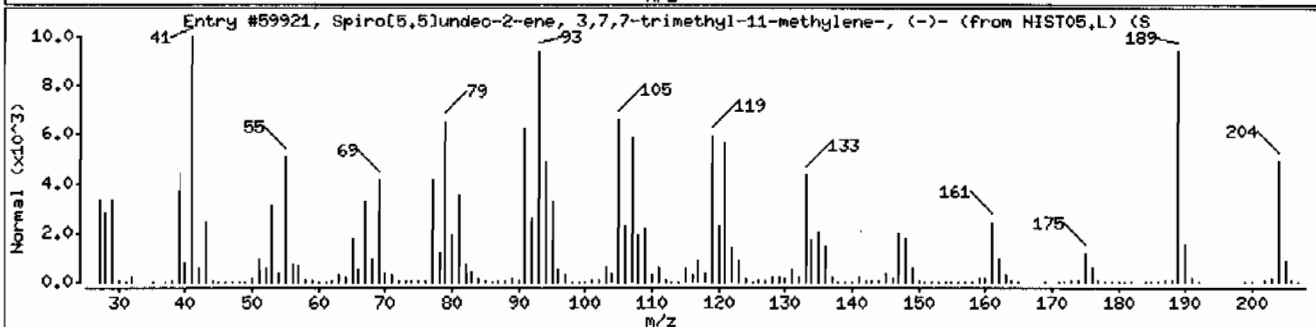
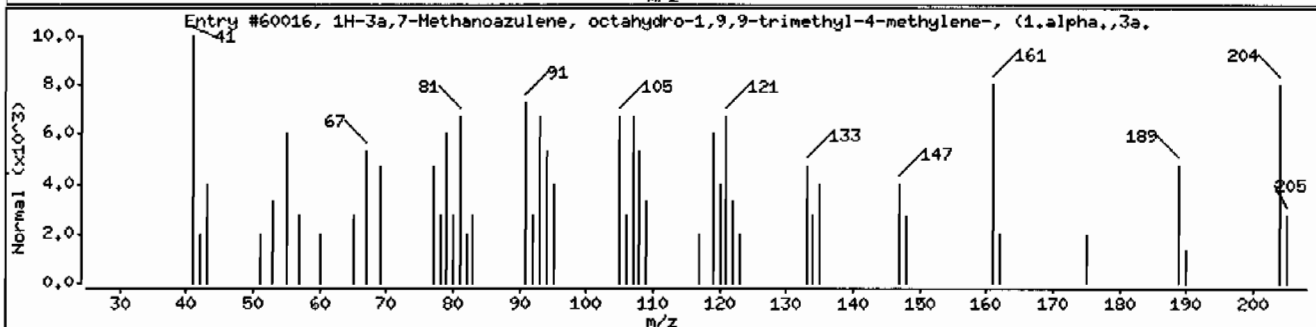
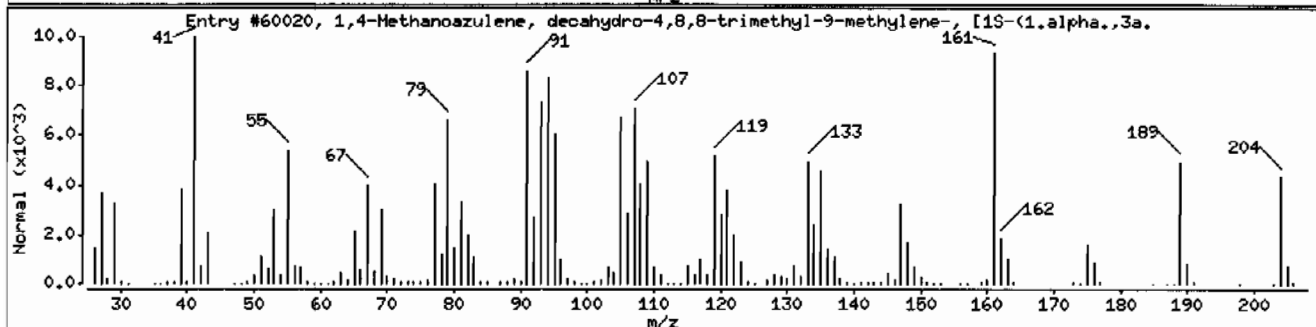
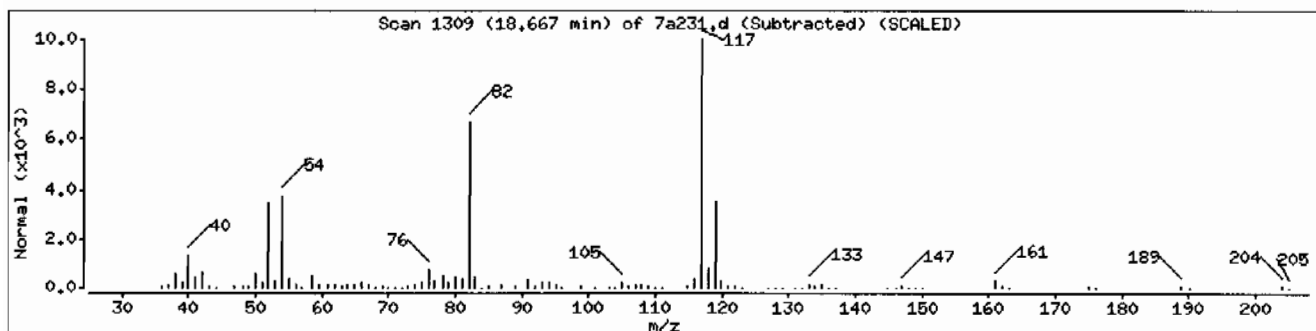
Unknown Hydrocarbon

1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1.alpha.,3a.

CAS Number	Library	Entry	Quality	Formula	Weight
475-20-7	NIST05.L	60020	90	C15H24	204
508-55-4	NIST05.L	60016	83	C15H24	204
18431-82-8	NIST05.L	59921	64	C15H24	204

1H-3a,7-Methanoazulene, octahydro-1,9,9-trimethyl-4-methylene-, (1.alpha.,3a.

Spiro[5.5]undec-2-ene, 3,7,7-trimethyl-11-methylene-, (-)- (from NIST05.L) (S



Date : 24-FEB-2010 02:47

Client ID: RE15-10-8343

Instrument: VOA7.i

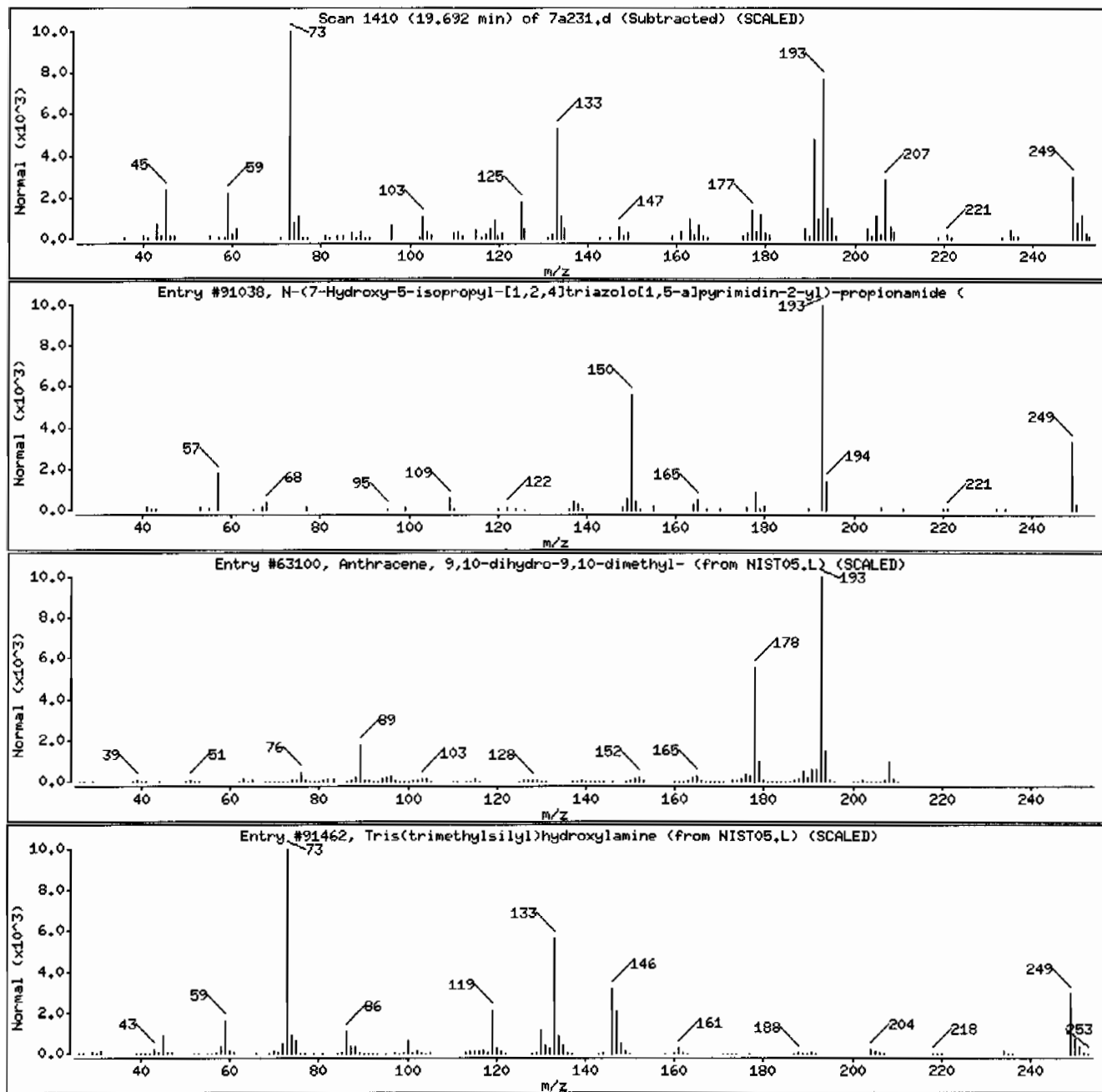
Sample Info: 1247332007195673911\VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
N-(7-Hydroxy-5-isopropyl-[1,2,4]triazolo	1000296-64-7	NIST05.L	91038	30	C11H15N5O2	249
Anthracene, 9,10-dihydro-9,10-dimethyl-	22566-43-4	NIST05.L	63100	30	C16H16	208
Tris(trimethylsilyl)hydroxylamine	21023-20-1	NIST05.L	91462	25	C9H27NOSi3	249



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332004	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8344	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 01:04	Inst: VOA7.I	Dilution: 1
Prep Date: 02/23/2010 15:46	Analyst: AX01	Purge Vol: 5 mL
Data File: 7a228.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.360	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.29	ug/kg	1.76	5.29
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.29	ug/kg	1.69	5.29
75-09-2	Methylene chloride	U	5.29	ug/kg	2.11	5.29
75-15-0	Carbon disulfide	U	5.29	ug/kg	1.32	5.29
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.29	ug/kg	1.59	5.29
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.29	ug/kg	1.32	5.29
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.29	ug/kg	1.59	5.29
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332004	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8344	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.1	Dilution: 1
Run Date: 02/24/2010 01:04	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:46	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a228.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.29	ug/kg	1.69	5.29
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	12	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a228.d

Lab Smp Id: 247332004

Client Smp ID: RE15-10-8344

Inj Date : 24-FEB-2010 01:04

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247332004|956739|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 28

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.42780	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	883355	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	639489	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	311511	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	399913	52.3996	55.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1006605	48.3633	51.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	385168	47.0050	49.7

ION RATIO REPORT

VOA REPORT

Data file: 7a228.d

Report Date: 02/24/2010 09:27

Lab. ID: 247332004

SampleType: SAMPLE

Injection Date: 24-FEB-2010 01:04

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332004|956739|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	11365	17.13	16.93	80-120	100	(T)
43	7943	17.13	16.93	221-281	70	(QT)
100	688036	17.13	16.94	0- 57	6054	(QT)

82	Bromoform			CAS#: 75-25-2		
173	967	19.81	19.54	80-120	100	(T)
175	19522	19.81	19.54	19- 79	2019	(QT)

89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	2717	19.69	19.97	80-120	100	(T)
75	8606	19.69	19.97	315-375	317	(T)
77	355	19.68	19.97	94-154	13	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/022310v7/7a228.d
 Lab Smp Id: 247332004 Client Smp ID: RE15-10-8344
 Inj Date : 24-FEB-2010 01:04
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |247332004|956739|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
 Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.42780	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	2417701	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL(ug/l)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane				CAS #:			
19.692	547899	11.3309990	12.0	0		0	75

Data File: /chem/V067.i/022310v7/7a228.d

Date : 24-FEB-2010 01:04

Client ID: RE15-10-8344

Sample Info: 1247332004196673911.V06F111

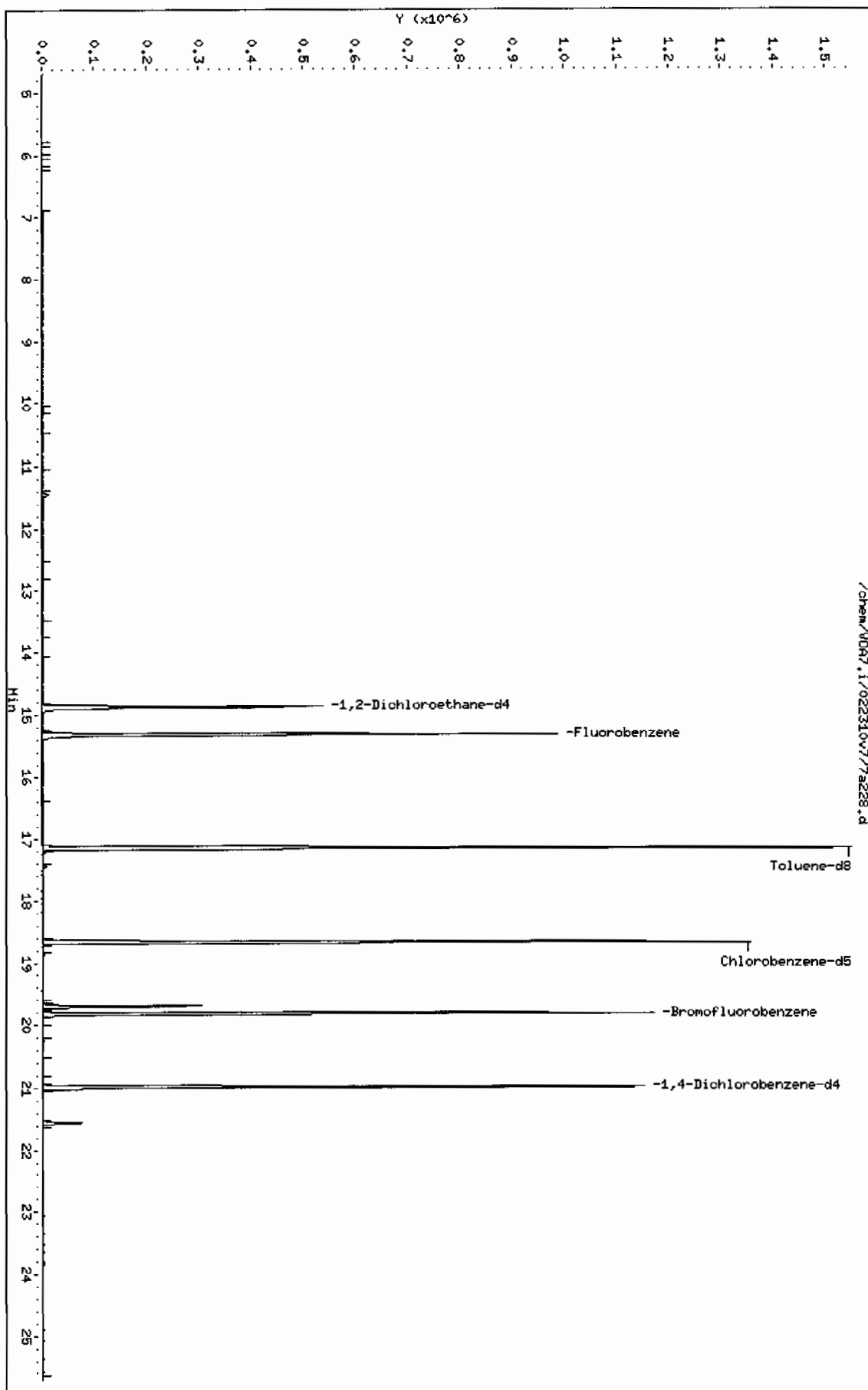
Column phase: DB-624

Instrument: V067.i

Operator: AK01

Column diameter: 0.25

/chem/V067.i/022310v7/7a228.d



Date : 24-FEB-2010 01:04

Client ID: RE15-10-8344

Instrument: V0A7.i

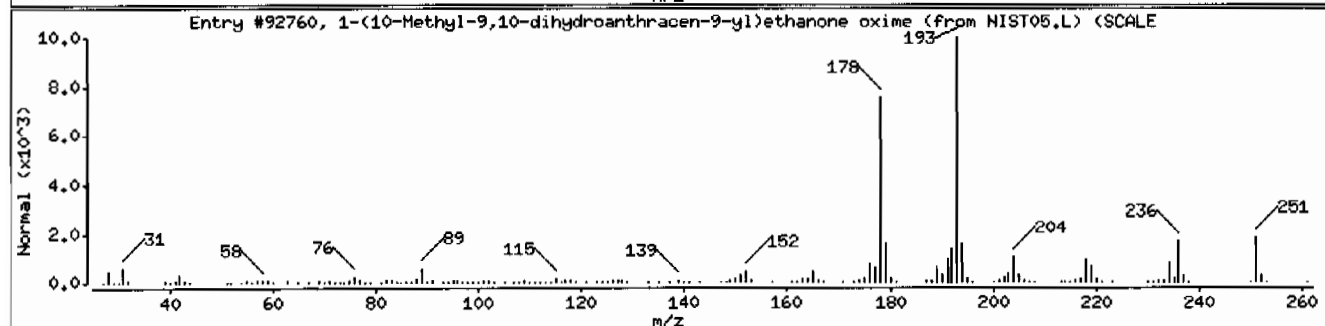
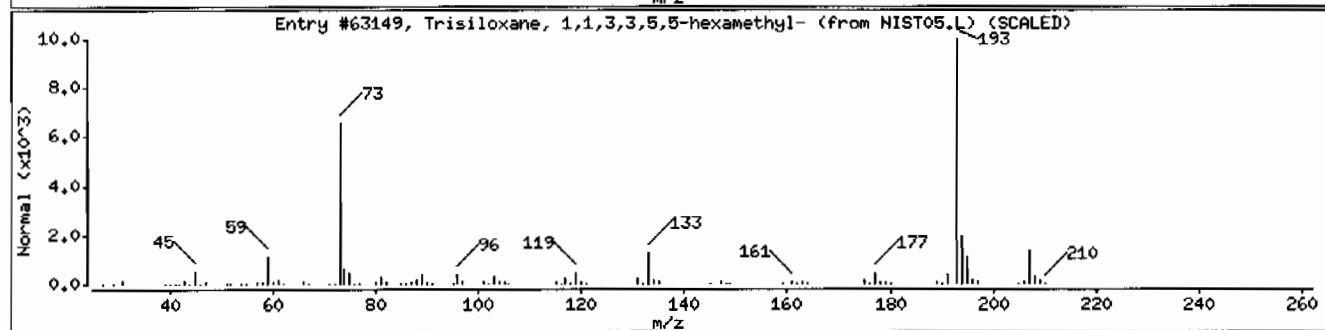
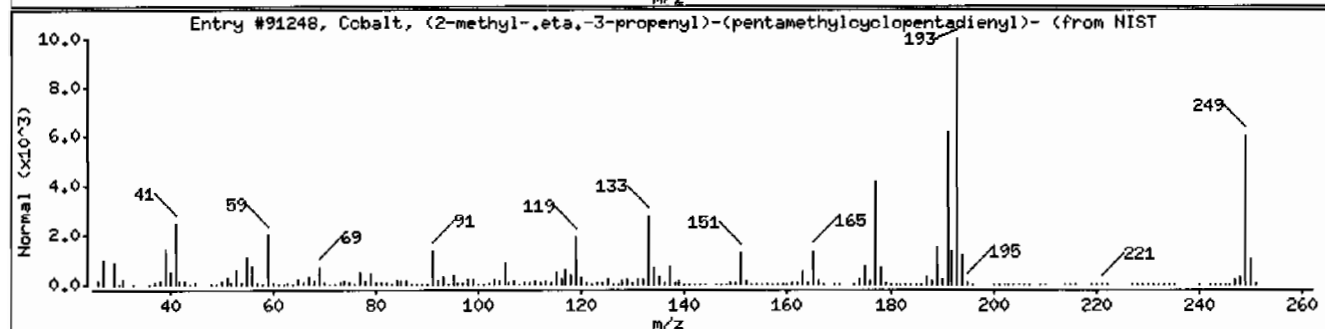
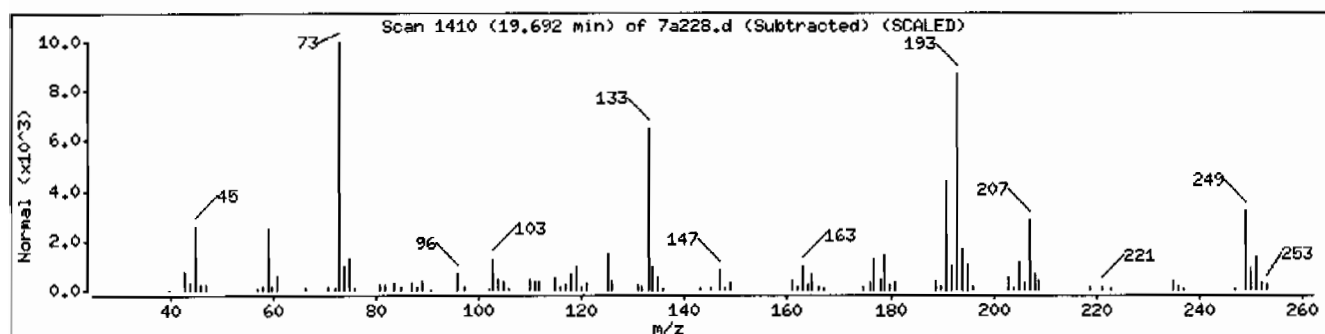
Sample Info: I247332004195673911V0AF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Cobalt, (2-methyl-.eta.-3-propenyl)-(pen	1000157-04-3	NIST05.L	91248	68	C14H22Co	249
Trisiloxane, 1,1,3,3,5,5-hexamethyl-	1189-93-1	NIST05.L	63149	38	C6H20O2Si3	208
1-(10-Methyl-9,10-dihydroanthracen-9-yl)	1000210-33-6	NIST05.L	92760	30	C17H17NO	251



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 15:59	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/24/2010 13:39	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a311.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone	J	5.23	ug/kg	1.77	5.33
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.33	ug/kg	1.71	5.33
75-09-2	Methylene chloride	U	5.33	ug/kg	2.13	5.33
75-15-0	Carbon disulfide	U	5.33	ug/kg	1.33	5.33
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.33	ug/kg	1.60	5.33
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.33	ug/kg	1.33	5.33
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.33	ug/kg	1.60	5.33
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	% Moisture: 6.3
Client ID: RE15-10-8345	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 15:59	Inst: VOA7.I	Dilution: 1
Prep Date: 02/24/2010 13:39	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a311.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.320	2.13
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	U	1.07	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.33	ug/kg	1.71	5.33
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	5.43	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a311.d

Lab Smp Id: 247332005

Client Smp ID: RE15-10-8345

Inj Date : 24-FEB-2010 15:59

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247332005|956739|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Meth Date : 08-Mar-2010 14:52 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 11

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	6.25840	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	565078	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	401733	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	179150	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	243941	49.9659	53.3
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	646265	49.4269	52.7
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	224954	47.7358	50.9
13 Acetone	43	10.464	10.413	(0.683)	18573	4.90696	5.2(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

ION RATIO REPORT

VOA REPORT

Data file: 7a311.d

Report Date: 02/25/2010 06:32

Lab. ID: 247332005

SampleType: SAMPLE

Injection Date: 24-FEB-2010 15:59

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332005|956739|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
13	Acetone		CAS#: 67-64-1			
43	18573	10.46	10.41	80-120	100	()
58	3126	10.48	10.41	0- 58	17	(T)

63	4-Methyl-2-pentanone		CAS#: 108-10-1			
58	7720	17.13	16.94	80-120	100	(T)
43	4836	17.13	16.93	219-279	63	(QT)
100	439360	17.13	16.94	0- 57	5691	(QT)

82	Bromoform		CAS#: 75-25-2			
173	727	19.82	19.54	80-120	100	(T)
175	11451	19.81	19.54	18- 78	1575	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/022410v7/7a311.d
Report Date: 08-Mar-2010 15:05

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/022410v7/7a311.d
Lab Smp Id: 247332005 Client Smp ID: RE15-10-8345
Inj Date : 24-FEB-2010 15:59
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247332005|956739|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	6.25840	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	1500405	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	=====	=====	=====	=====
Unknown Siloxane					CAS #:		
19.692	152709	5.08892648	5.4	0		0	75

Data File: /chem/V007.i/022410v7/7a311.d

Date : 24-FEB-2010 15:59

Client ID: REL5-10-8345

Sample Info: 1247332005195673911/V00711

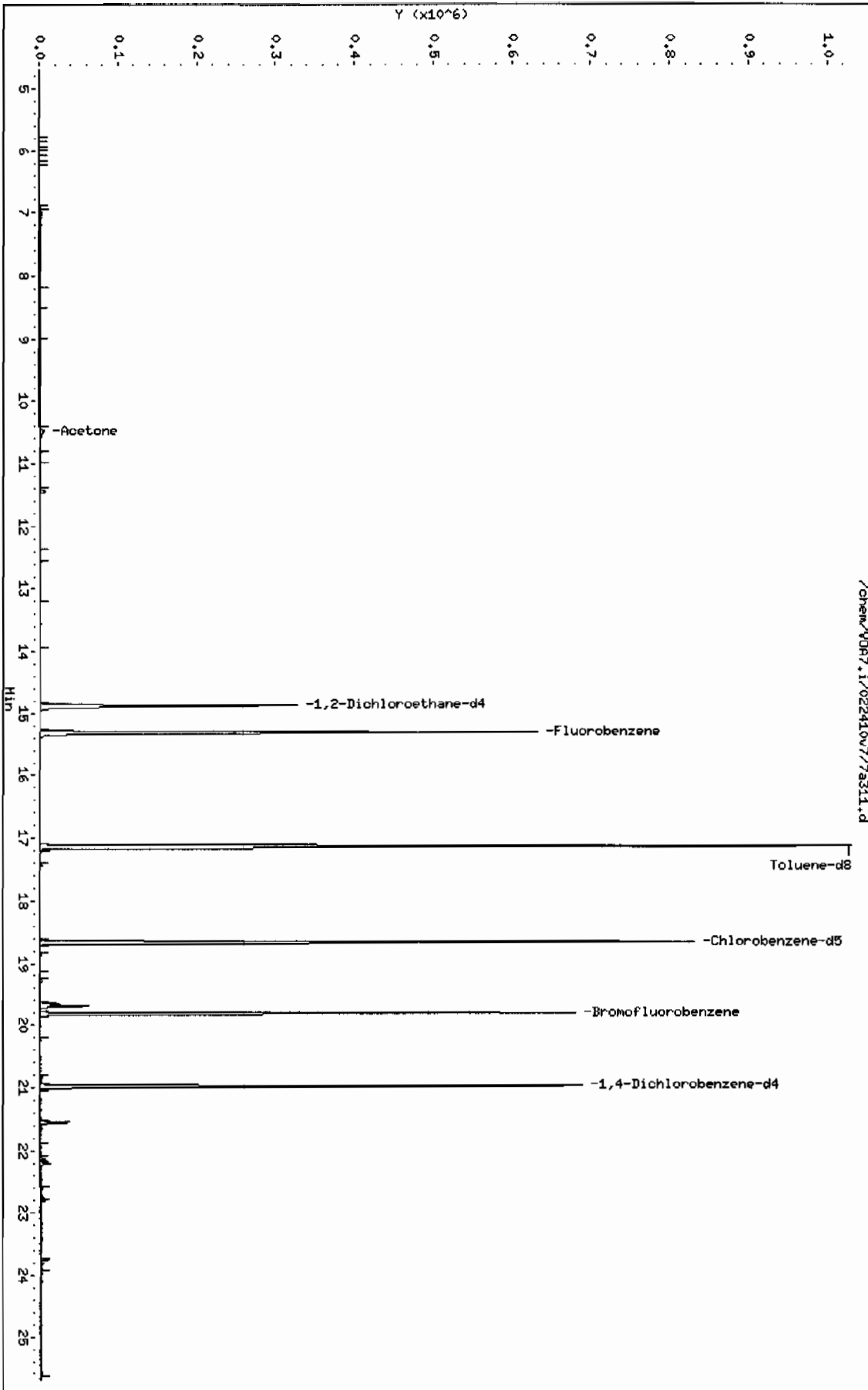
Column phase: DB-624

Instrument: V007.i

Operator: RK01

Column diameter: 0.25

Page 1



Date : 24-FEB-2010 15:59

Client ID: RE15-10-8345

Instrument: V0A7.i

Sample Info: 1247332005195673911V0AF111

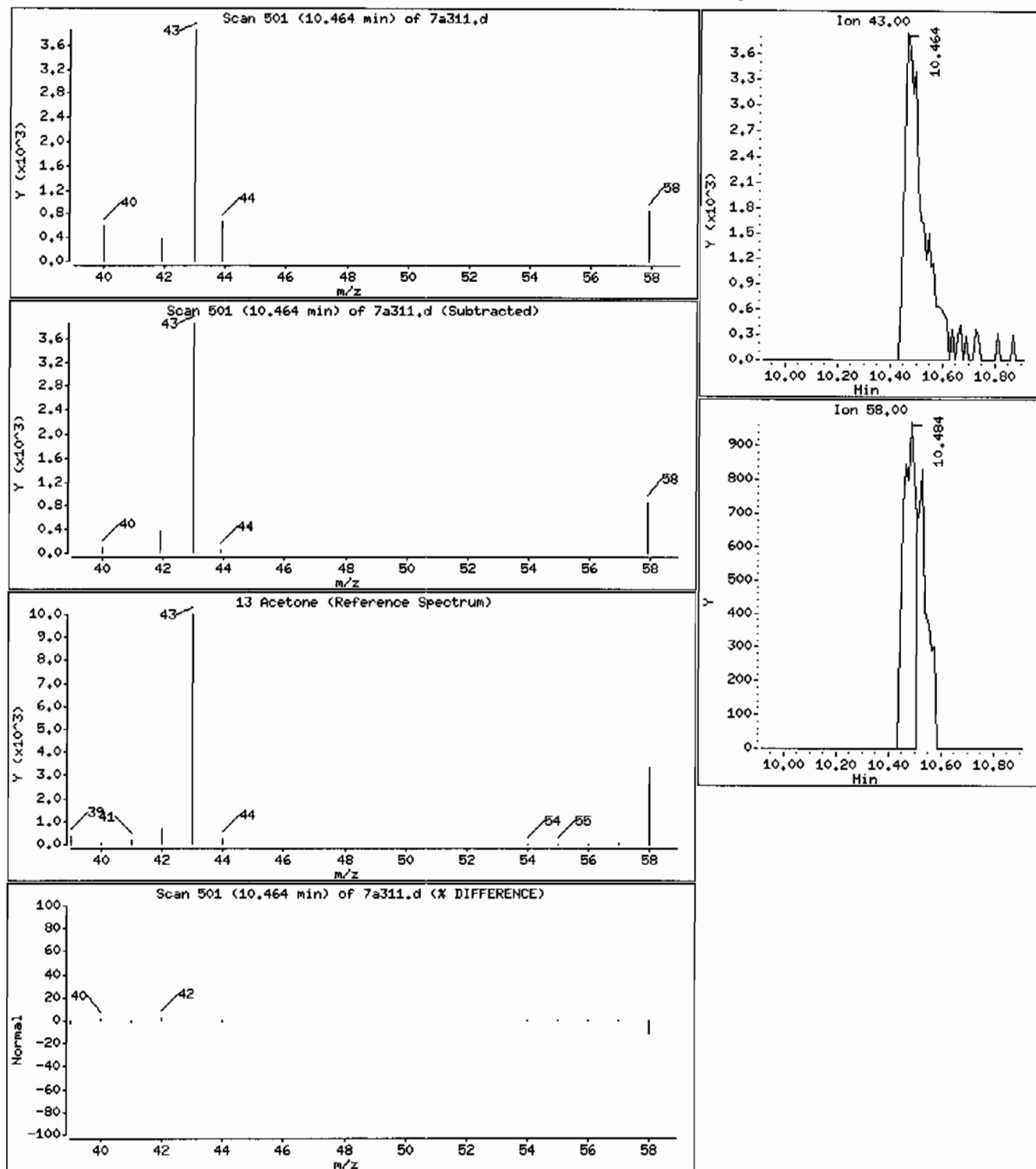
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

13 Acetone

Concentration: 5.2 ug/Kg



Date : 24-FEB-2010 15:59

Client ID: RE15-10-8345

Instrument: VOA7.i

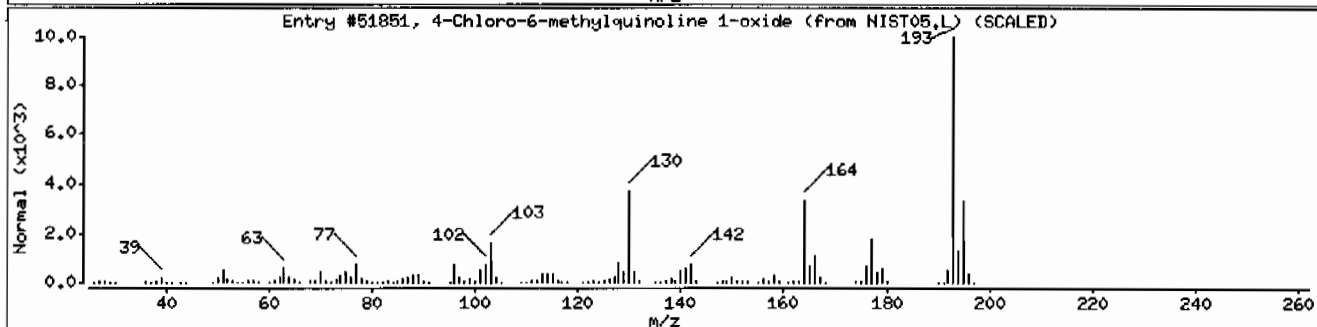
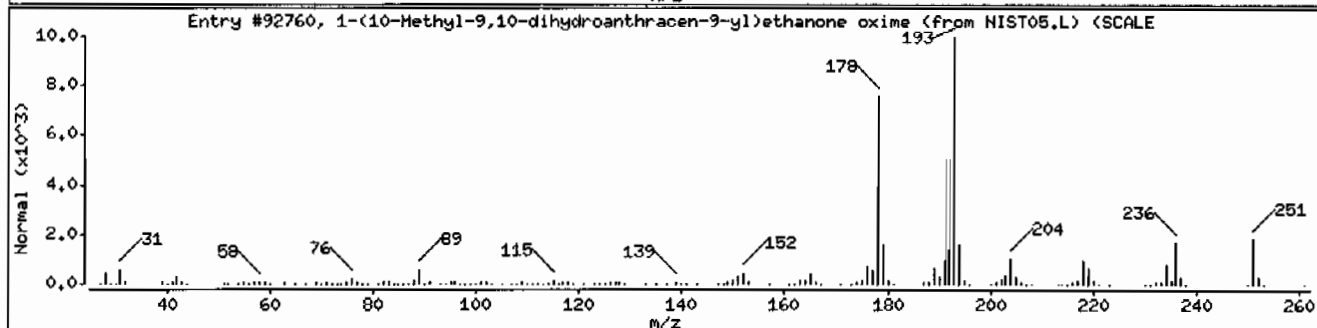
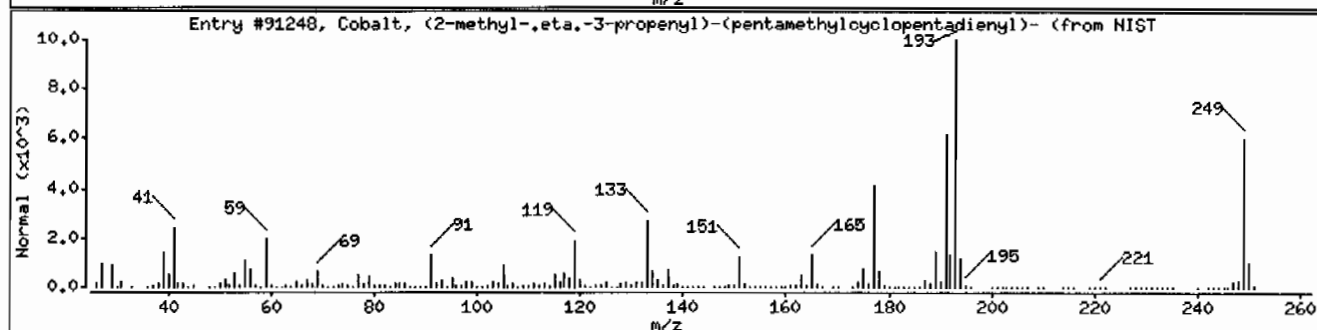
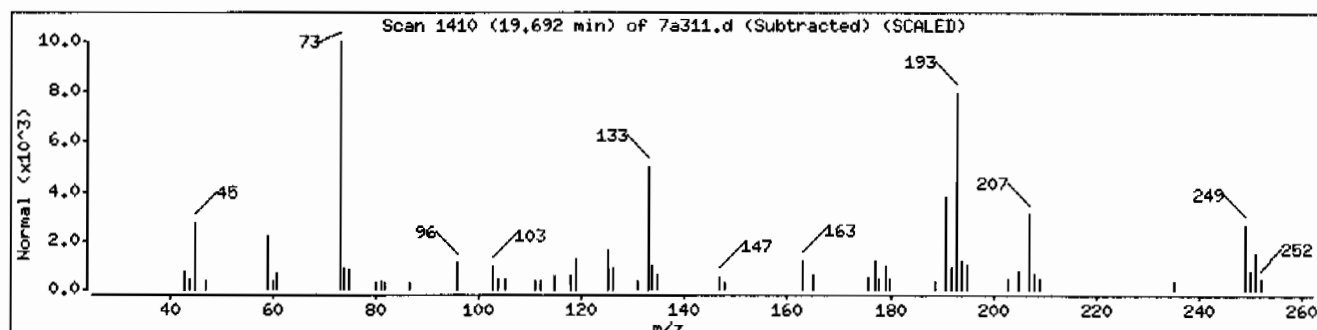
Sample Info: I247332005I956739I1IVOAFI1I

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Cobalt, (2-methyl-,eta,-3-propenyl)-(pen	1000157-04-3	NIST05.L	91248	62	C14H22Co	249
1-(10-Methyl-9,10-dihydroanthracen-9-yl)	1000210-33-6	NIST05.L	92760	30	C17H17NO	251
4-Chloro-6-methylquinoline 1-oxide	46154-86-3	NIST05.L	51851	25	C10H8ClNO	193



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332002

Client ID: RE15-10-8346
 Batch ID: 956739
 Run Date: 02/23/2010 23:53
 Prep Date: 02/23/2010 15:38
 Data File: 7a226.d

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.12	ug/kg	0.380	1.12
74-87-3	Chloromethane	U	1.12	ug/kg	0.335	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.335	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.335	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.335	1.12
67-64-1	Acetone		9.63	ug/kg	1.86	5.59
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
74-88-4	Iodomethane	U	5.59	ug/kg	1.79	5.59
75-09-2	Methylene chloride	U	5.59	ug/kg	2.24	5.59
75-15-0	Carbon disulfide	U	5.59	ug/kg	1.40	5.59
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.335	1.12
78-93-3	2-Butanone	U	5.59	ug/kg	1.68	5.59
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
67-66-3	Chloroform	U	1.12	ug/kg	0.335	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.369	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.335	1.12
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.335	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.335	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.369	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.335	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone	U	5.59	ug/kg	1.40	5.59
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
108-88-3	Toluene	U	1.12	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.335	1.12
591-78-6	2-Hexanone	U	5.59	ug/kg	1.68	5.59
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.335	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.335	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332002	Date Received: 02/18/2010 08:45	%Moisture: 10.5
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8346	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/23/2010 23:53	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:38	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a226.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes	U	2.24	ug/kg	0.335	2.24
95-47-6	o-Xylene	U	1.12	ug/kg	0.335	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.335	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.335	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.335	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.59	ug/kg	1.79	5.59
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	10.4	ug/kg		J

Data File: /chem/VOA7.i/022310v7/7a226.d
Report Date: 08-Mar-2010 13:33

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/022310v7/7a226.d
Lab Smp Id: 247332002 Client Smp ID: RE15-10-8346
Inj Date : 23-FEB-2010 23:53
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247332002|956739|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	10.53080	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.316	15.317 (1.000)	905561	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	659705	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992 (1.000)	321035	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	415827	53.1487	59.4
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	1055874	49.1759	55.0
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	394902	46.7632	52.3
13 Acetone	43	10.464	10.413 (0.683)	52262	8.61603	9.6

ION RATIO REPORT

VOA REPORT

Data file: 7a226.d

Report Date: 02/24/2010 09:26

Lab. ID: 247332002

SampleType: SAMPLE

Injection Date: 23-FEB-2010 23:53

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332002|956739|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
13	Acetone		CAS#: 67-64-1			
43	52262	10.46	10.41	80-120	100	()
58	13048	10.44	10.41	0- 59	25	()

63	4-Methyl-2-pentanone		CAS#: 108-10-1			
58	13094	17.13	16.93	80-120	100	(T)
43	8175	17.13	16.93	221-281	62	(QT)
100	729632	17.13	16.94	0- 57	5572	(QT)

82	Bromoform		CAS#: 75-25-2			
173	1191	19.81	19.54	80-120	100	(T)
175	19431	19.81	19.54	19- 79	1630	(QT)

89	1,2,3-Trichloropropane		CAS#: 96-18-4			
110	519	19.69	19.97	80-120	100	(T)
75	3055	19.69	19.97	315-375	588	(QT)
77	156	19.70	19.97	94-154	30	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/022310v7/7a226.d
 Lab Smp Id: 247332002 Client Smp ID: RE15-10-8346
 Inj Date : 23-FEB-2010 23:53
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |247332002|956739|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
 Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	10.53080	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	2490853	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Hydrocarbon							
19.651	461655	9.26699624	10.4	0		0	75

Data File: /chem/V007.1/022310v7/7a226.d
Date: 23-FEB-2010 23:53
Client ID: RE15-10-8346
Sample Info: 1247332002195673911.V007.1

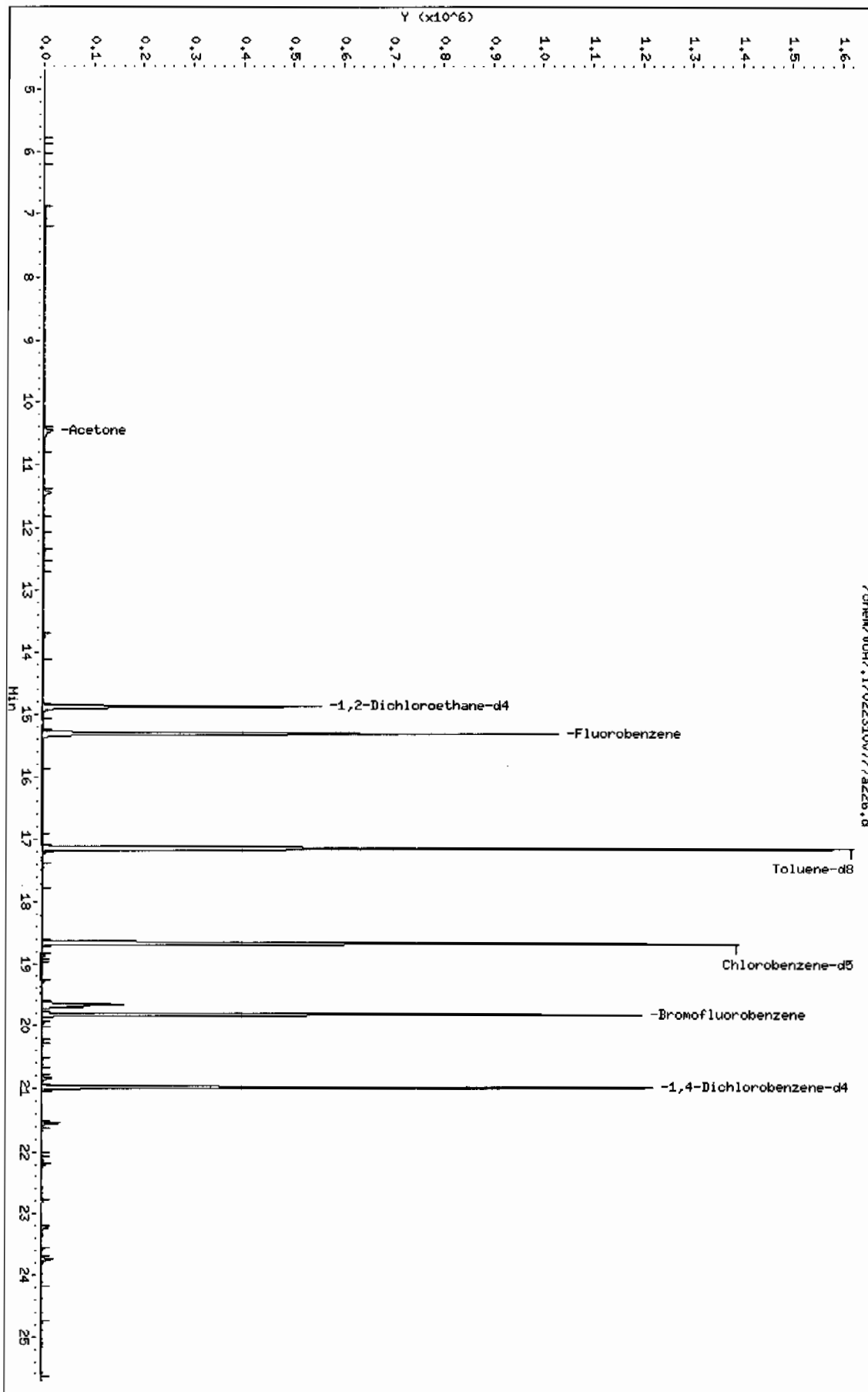
Column Phase: DB-624

Instrument: V007.1

Operator: AX01

Column diameter: 0.25

/chem/V007.1/022310v7/7a226.d



Date : 23-FEB-2010 23:53

Client ID: RE15-10-8346

Instrument: V0A7.i

Sample Info: 1247332002195673911V0A7I11

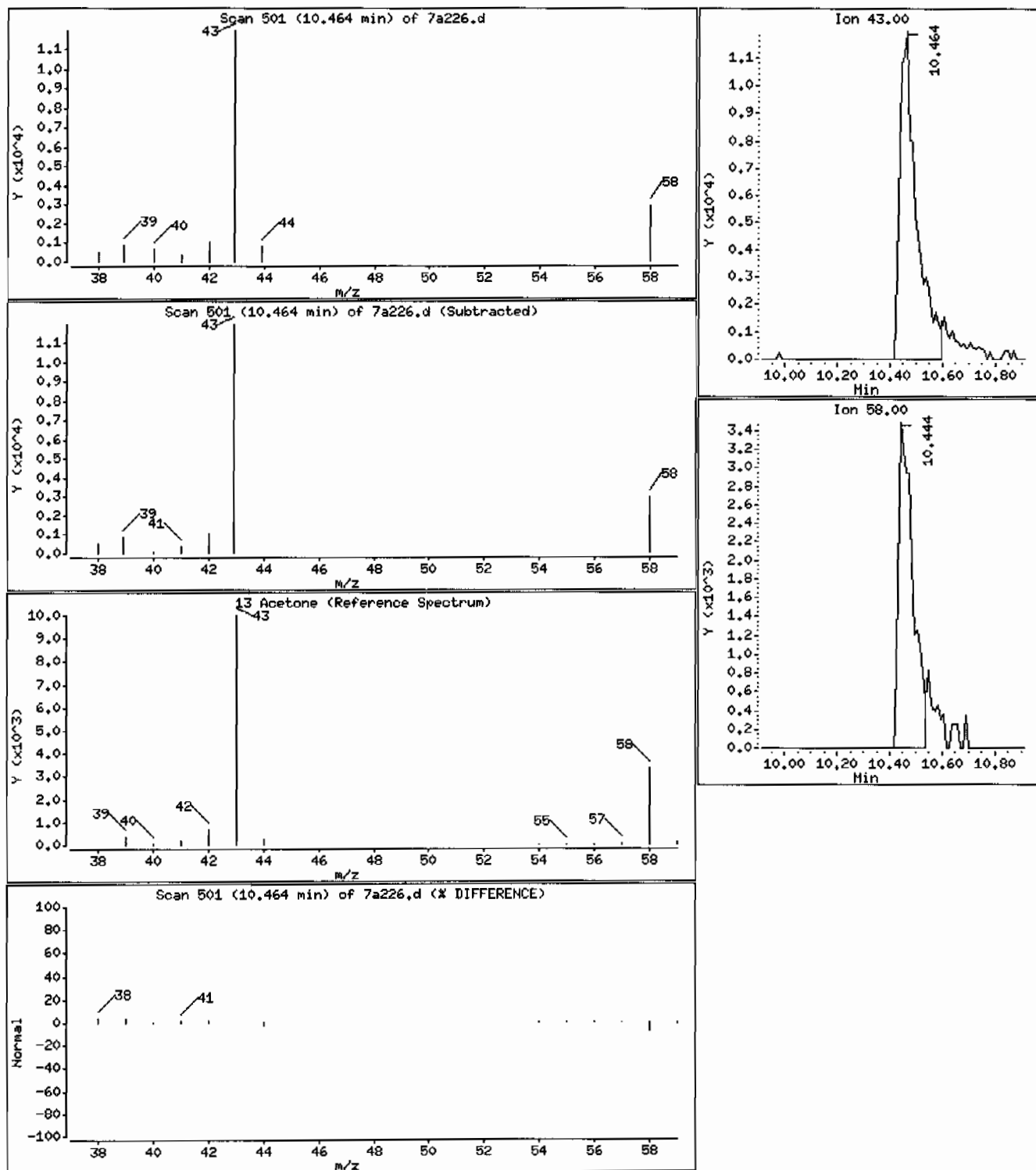
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

13 Acetone

Concentration: 9.6 ug/Kg



Date : 23-FEB-2010 23:53

Client ID: RE15-10-8346

Instrument: VOA7.i

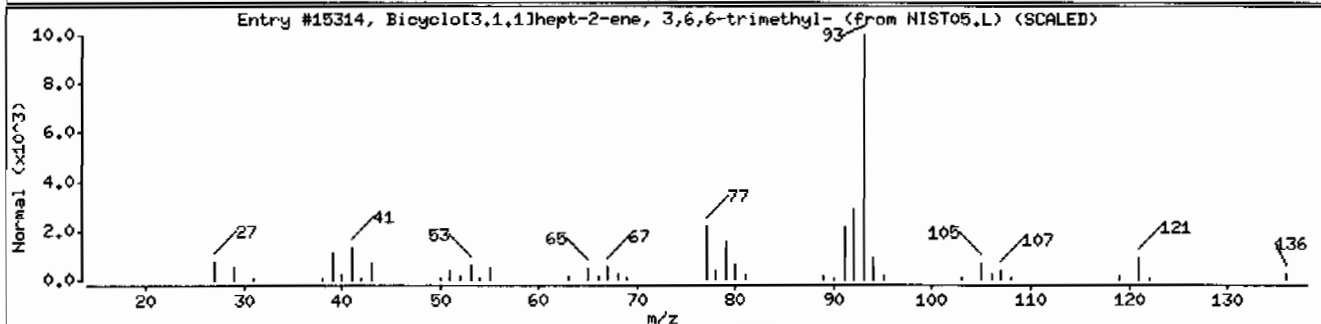
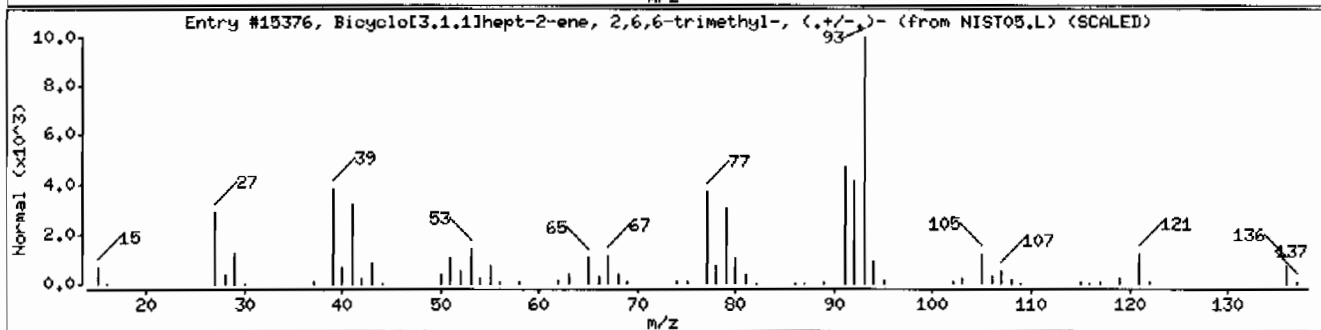
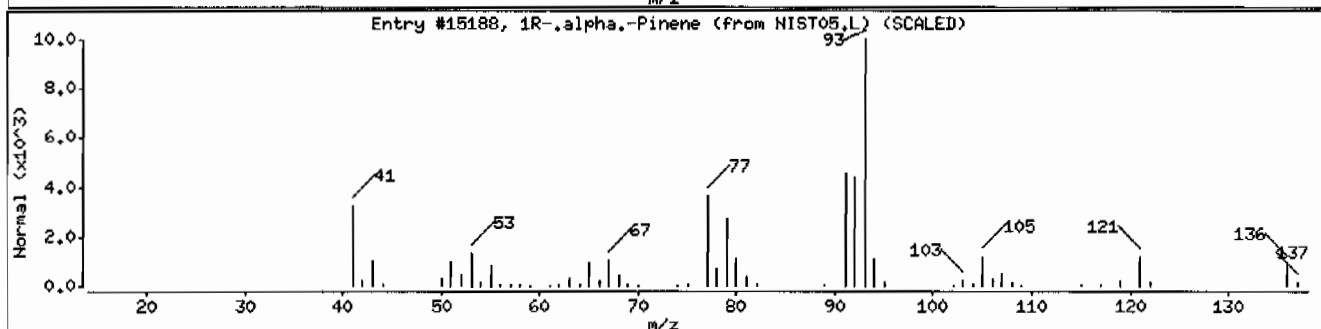
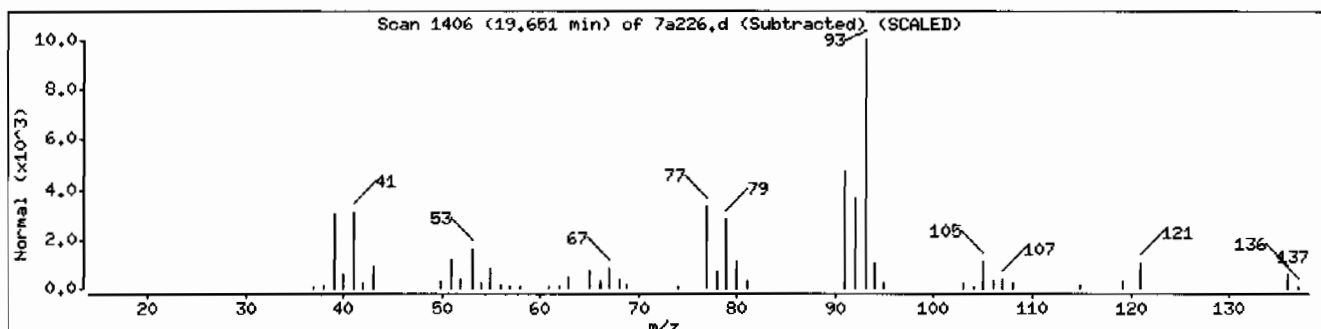
Sample Info: 1247332002195673911VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15188	97	C10H16	136
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethy	2437-95-8	NIST05.L	15376	96	C10H16	136
Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethy	4889-83-2	NIST05.L	15314	91	C10H16	136



**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332003

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8347
Batch ID: 956739
Run Date: 02/24/2010 15:24
Prep Date: 02/24/2010 13:37
Data File: 7a310.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.03	ug/kg	0.350	1.03
74-87-3	Chloromethane	U	1.03	ug/kg	0.308	1.03
75-01-4	Vinyl chloride	U	1.03	ug/kg	0.308	1.03
74-83-9	Bromomethane	U	1.03	ug/kg	0.308	1.03
75-00-3	Chloroethane	U	1.03	ug/kg	0.308	1.03
75-69-4	Trichlorofluoromethane	U	1.03	ug/kg	0.308	1.03
67-64-1	Acetone	U	5.14	ug/kg	1.71	5.14
75-35-4	1,1-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
74-88-4	Iodomethane	U	5.14	ug/kg	1.65	5.14
75-09-2	Methylene chloride	U	5.14	ug/kg	2.06	5.14
75-15-0	Carbon disulfide	U	5.14	ug/kg	1.29	5.14
156-60-5	trans-1,2-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
75-34-3	1,1-Dichloroethane	U	1.03	ug/kg	0.308	1.03
78-93-3	2-Butanone	U	5.14	ug/kg	1.54	5.14
156-59-2	cis-1,2-Dichloroethylene	U	1.03	ug/kg	0.308	1.03
594-20-7	2,2-Dichloropropane	U	1.03	ug/kg	0.308	1.03
67-66-3	Chloroform	U	1.03	ug/kg	0.308	1.03
74-97-5	Bromochloromethane	U	1.03	ug/kg	0.339	1.03
71-55-6	1,1,1-Trichloroethane	U	1.03	ug/kg	0.308	1.03
563-58-6	1,1-Dichloropropene	U	1.03	ug/kg	0.308	1.03
56-23-5	Carbon tetrachloride	U	1.03	ug/kg	0.308	1.03
107-06-2	1,2-Dichloroethane	U	1.03	ug/kg	0.308	1.03
71-43-2	Benzene	U	1.03	ug/kg	0.308	1.03
79-01-6	Trichloroethylene	U	1.03	ug/kg	0.339	1.03
78-87-5	1,2-Dichloropropane	U	1.03	ug/kg	0.308	1.03
75-27-4	Bromodichloromethane	U	1.03	ug/kg	0.308	1.03
74-95-3	Dibromomethane	U	1.03	ug/kg	0.308	1.03
108-10-1	4-Methyl-2-pentanone	U	5.14	ug/kg	1.29	5.14
10061-01-5	cis-1,3-Dichloropropylene	U	1.03	ug/kg	0.308	1.03
108-88-3	Toluene	U	1.03	ug/kg	0.308	1.03
10061-02-6	trans-1,3-Dichloropropylene	U	1.03	ug/kg	0.308	1.03
79-00-5	1,1,2-Trichloroethane	U	1.03	ug/kg	0.308	1.03
591-78-6	2-Hexanone	U	5.14	ug/kg	1.54	5.14
142-28-9	1,3-Dichloropropane	U	1.03	ug/kg	0.308	1.03
127-18-4	Tetrachloroethylene	U	1.03	ug/kg	0.308	1.03
124-48-1	Dibromochloromethane	U	1.03	ug/kg	0.308	1.03
106-93-4	1,2-Dibromoethane	U	1.03	ug/kg	0.308	1.03
108-90-7	Chlorobenzene	U	1.03	ug/kg	0.308	1.03

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332003	Date Received: 02/18/2010 08:45	%Moisture: 2.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8347	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 15:24	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/24/2010 13:37	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a310.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.03	ug/kg	0.308	1.03
179601-23-1	m,p-Xylenes	U	2.06	ug/kg	0.308	2.06
95-47-6	o-Xylene	U	1.03	ug/kg	0.308	1.03
100-42-5	Styrene	U	1.03	ug/kg	0.308	1.03
75-25-2	Bromoform	U	1.03	ug/kg	0.308	1.03
79-34-5	1,1,2,2-Tetrachloroethane	U	1.03	ug/kg	0.308	1.03
96-18-4	1,2,3-Trichloropropane	U	1.03	ug/kg	0.308	1.03
108-86-1	Bromobenzene	U	1.03	ug/kg	0.308	1.03
103-65-1	n-Propylbenzene	U	1.03	ug/kg	0.308	1.03
95-49-8	2-Chlorotoluene	U	1.03	ug/kg	0.308	1.03
98-82-8	Isopropylbenzene	U	1.03	ug/kg	0.308	1.03
108-67-8	1,3,5-Trimethylbenzene	U	1.03	ug/kg	0.308	1.03
106-43-4	4-Chlorotoluene	U	1.03	ug/kg	0.308	1.03
98-06-6	tert-Butylbenzene	U	1.03	ug/kg	0.308	1.03
95-63-6	1,2,4-Trimethylbenzene	U	1.03	ug/kg	0.308	1.03
135-98-8	sec-Butylbenzene	U	1.03	ug/kg	0.308	1.03
99-87-6	4-Isopropyltoluene	U	1.03	ug/kg	0.308	1.03
541-73-1	1,3-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03
106-46-7	1,4-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03
104-51-8	n-Butylbenzene	U	1.03	ug/kg	0.308	1.03
96-12-8	1,2-Dibromo-3-chloropropane	U	1.03	ug/kg	0.308	1.03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.14	ug/kg	1.65	5.14
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.03	ug/kg	0.308	1.03
95-50-1	1,2-Dichlorobenzene	U	1.03	ug/kg	0.308	1.03

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	9.18	ug/kg		J
	Unknown Siloxane	21.55	7.95	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a310.d

Lab Smp Id: 247332003

Client Smp ID: RE15-10-8347

Inj Date : 24-FEB-2010 15:24

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247332003|956739|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 10

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	2.74020	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	=====	==	=====	=====	=====		(ug/l)	(ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	694573		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	510939		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	243446		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	323213		53.8603	55.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	825093		49.6162	51.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	306850		47.9171	49.3

ION RATIO REPORT

VOA REPORT

Data file: 7a310.d

Report Date: 02/25/2010 06:32

Lab. ID: 247332003

SampleType: SAMPLE

Injection Date: 24-FEB-2010 15:24

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332003|956739|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	9932	17.13	16.94	80-120	100	(T)
43	6092	17.13	16.93	219-279	61	(QT)
100	551330	17.13	16.94	0- 57	5551	(QT)

89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	1446	19.69	19.97	80-120	100	(T)
75	5822	19.69	19.97	308-368	402	(QT)
77	350	19.70	19.97	96-156	24	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/022410v7/7a310.d
Report Date: 08-Mar-2010 15:04

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/022410v7/7a310.d
Lab Smp Id: 247332003 Client Smp ID: RE15-10-8347
Inj Date : 24-FEB-2010 15:24
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247332003|956739|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	2.74020	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	1916002	50.000
* 101 1,4-Dichlorobenzene-d4	20.992	1765819	50.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane							
19.692	342275	8.93200751	9.2	0		0	75

CAS #:

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane				CAS #:			
21.550	273077	7.73230406	8.0	0	0	101	

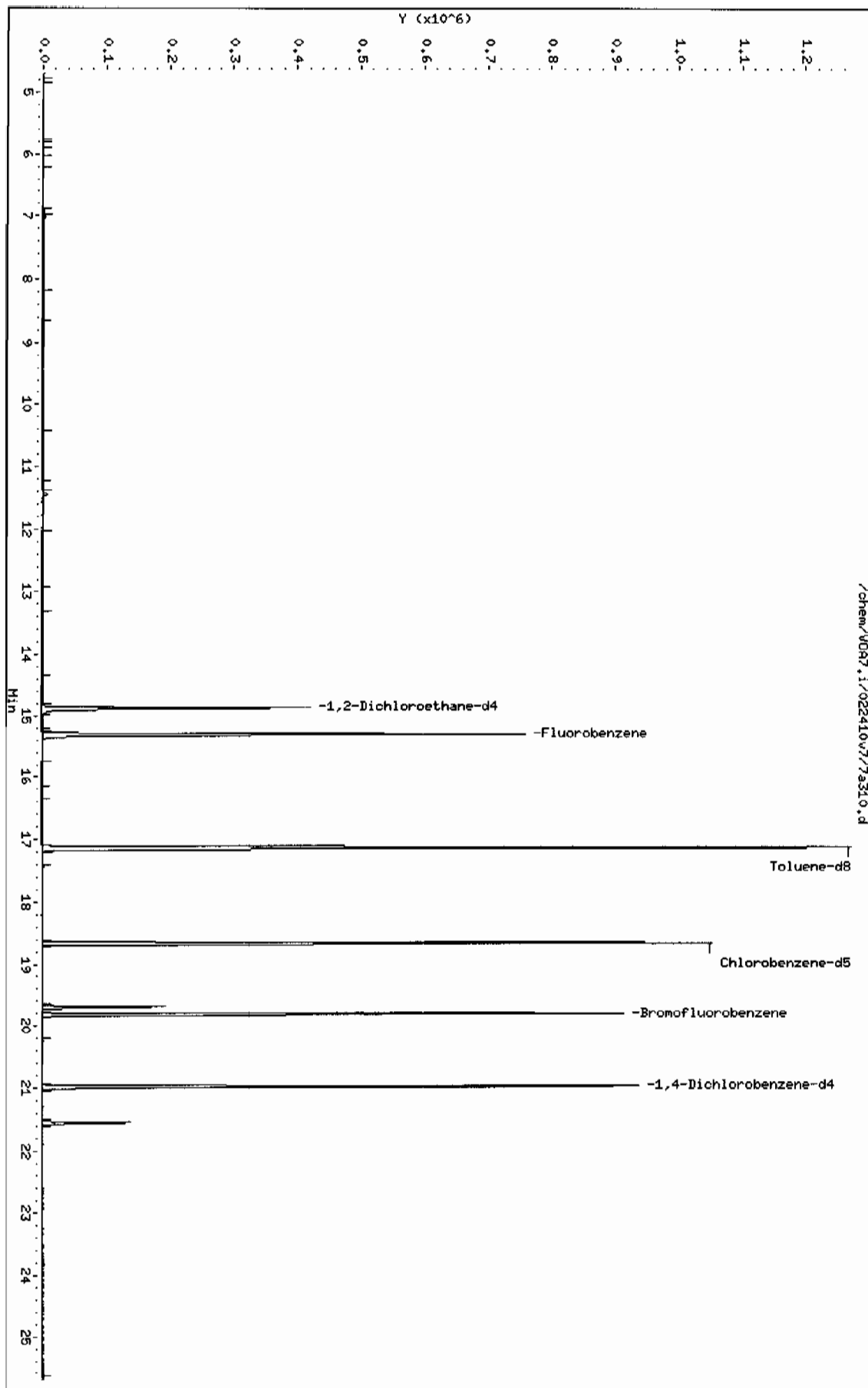
Data File: /chem/V097.i/022410v7/7a310.d
Date: 24-FEB-2010 15:24
Client ID: RE15-10-8347
Sample Info: 1247332003195673911V09F141

Column phase: DB-624

Instrument: V097.i

Operator: RX01

Column diameter: 0.25



Date : 24-FEB-2010 15:24

Client ID: RE15-10-8347

Instrument: VOA7.i

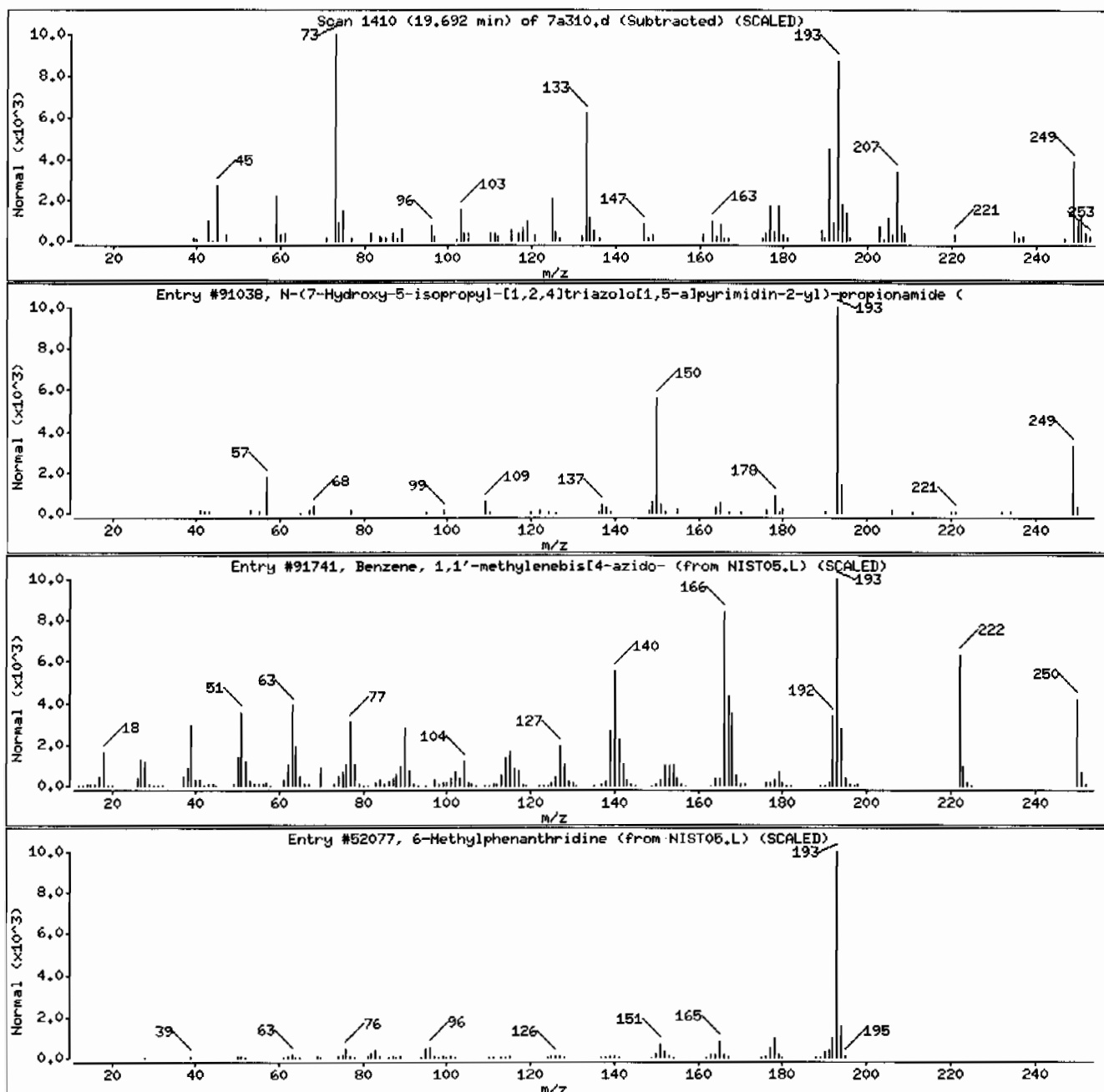
Sample Info: I247332003I9567391I1VOAF11I

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
N-(7-Hydroxy-5-isopropyl-[1,2,4]triazolo	1000296-64-7	NIST05.L	91038	35	C11H16N5O2	249
Benzene, 1,1'-methylenebis[4-azido-	2915-44-8	NIST05.L	91741	30	C13H10N6	250
6-Methylphenanthridine	3958-65-5	NIST05.L	52077	25	C14H11N	193



Date : 24-FEB-2010 15:24

Client ID: RE15-10-8347

Instrument: VDA7.i

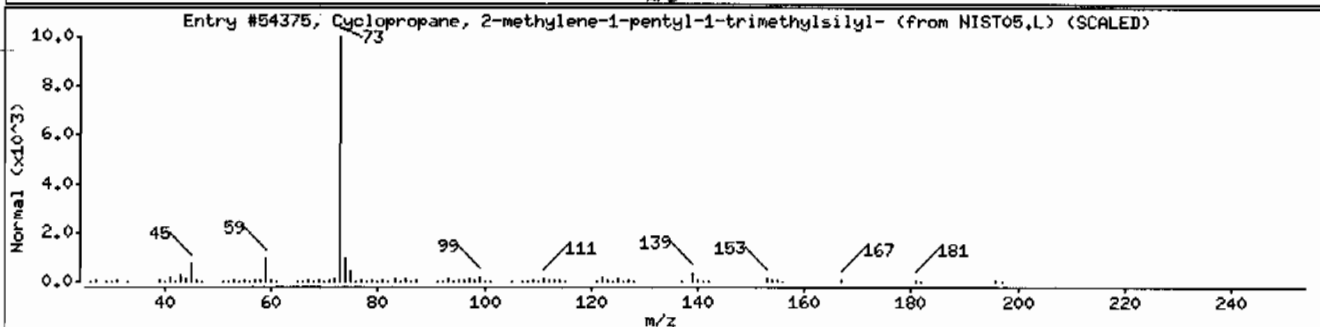
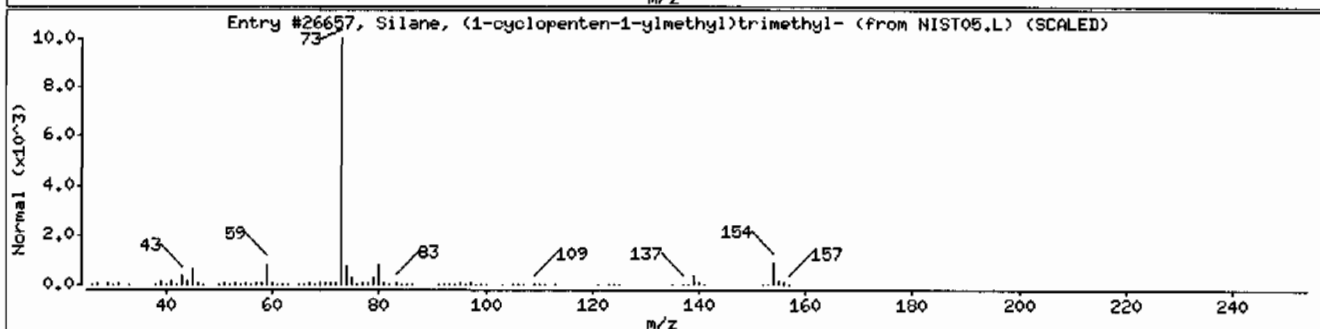
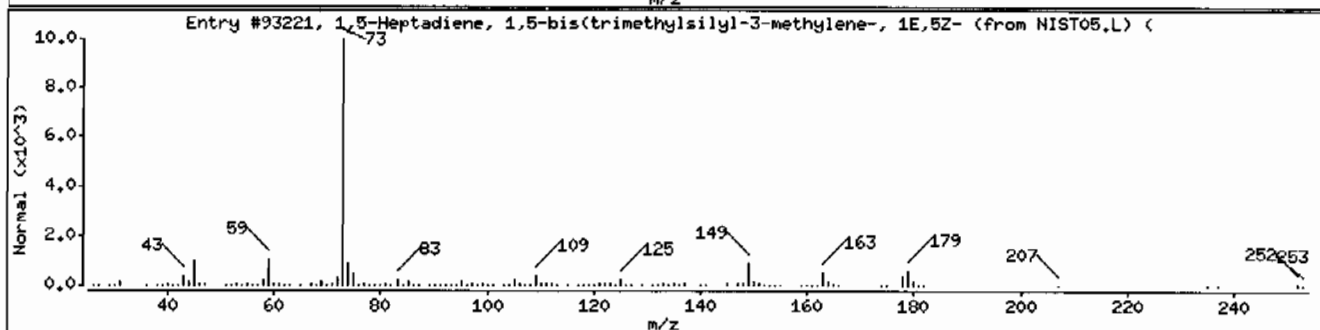
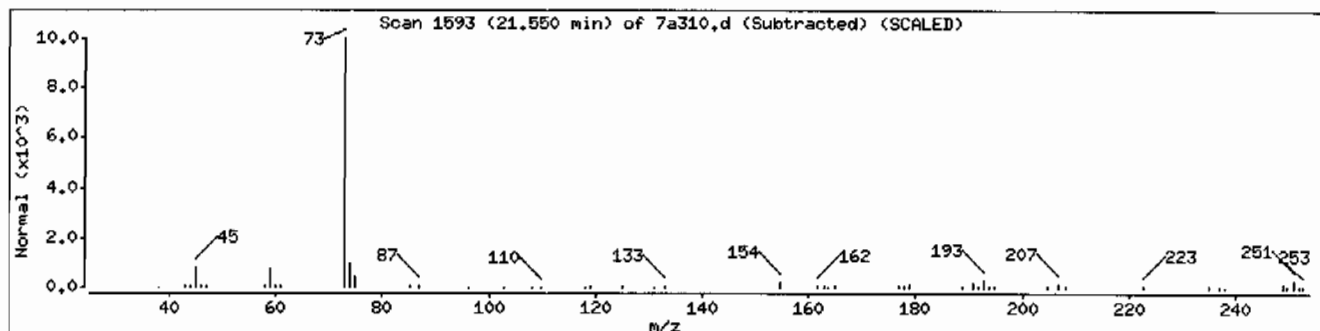
Sample Info: 1247332003195673911VDAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
1,5-Heptadiene, 1,5-bis(trimethylsilyl)-3	1000153-97-1	NIST05.L	93221	42	C ₁₄ H ₂₈ Si ₂	252
Silane, (1-cyclopenten-1-ylmethyl)trimet	75311-60-3	NIST05.L	26657	40	C ₉ H ₁₈ Si	154
Cyclopropane, 2-methylene-1-pentyl-1-tri	167300-47-2	NIST05.L	54375	40	C ₁₂ H ₂₄ Si	196



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
Client ID: RE15-10-8377	Client: LANL010	Project: LANL01004
Batch ID: 956739	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/24/2010 03:22	Inst: VOA7.I	Dilution: 1
Prep Date: 02/23/2010 15:54	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7a232.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.359	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.317	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.317	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.317	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.317	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.317	1.06
67-64-1	Acetone	U	5.28	ug/kg	1.75	5.28
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
74-88-4	Iodomethane	U	5.28	ug/kg	1.69	5.28
75-09-2	Methylene chloride	U	5.28	ug/kg	2.11	5.28
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.32	5.28
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.317	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.58	5.28
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.317	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.317	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.349	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.317	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.317	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.317	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.317	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.317	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.349	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.317	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.317	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.317	1.06
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.32	5.28
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
108-88-3	Toluene	J	0.319	ug/kg	0.317	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.317	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.317	1.06
591-78-6	2-Hexanone	U	5.28	ug/kg	1.58	5.28
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.317	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.317	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.317	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.317	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.317	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7J	Dilution: 1
Run Date: 02/24/2010 03:22	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:54	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a232.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.317	1.06
179601-23-1	m,p-Xylenes	U	2.11	ug/kg	0.317	2.11
95-47-6	o-Xylene	U	1.06	ug/kg	0.317	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.317	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.317	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.317	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.317	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.317	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.317	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.317	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.317	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.317	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.317	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.317	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.317	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.317	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.28	ug/kg	1.69	5.28
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.317	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.317	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	6.13	ug/kg		J

Data File: /chem/VOA7.i/022310v7/7a232.d
Report Date: 08-Mar-2010 14:16

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a232.d

Lab Smp Id: 247332008

Client Smp ID: RE15-10-8377

Inj Date : 24-FEB-2010 03:22

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247332008|956739|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 32

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.35260	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	594868	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	429250	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	195686	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	252084	49.0481	51.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	673290	48.1928	50.9
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	237292	46.0989	48.7
65 Toluene	92	17.215	17.215	(0.922)	2334	0.30201	0.32 (a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).

ION RATIO REPORT

VOA REPORT

Data file: 7a232.d

Report Date: 02/24/2010 09:27

Lab. ID: 247332008

SampleType: SAMPLE

Injection Date: 24-FEB-2010 03:22

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332008|956739|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	8460	17.13	16.93	80-120	100	(T)
43	5748	17.13	16.93	221-281	68	(QT)
100	460659	17.13	16.94	0- 57	5445	(QT)

65	Toluene			CAS#: 108-88-3		
92	2334	17.21	17.22	80-120	100	()
91	3331	17.21	17.22	132-192	143	()

73	1,2-Dibromoethane			CAS#: 106-93-4		
107	10456	18.63	18.22	80-120	100	(T)
109	4800	18.63	18.22	67-127	46	(QT)

78	Ethylbenzene			CAS#: 100-41-4		
91	24806	18.62	18.76	80-120	100	(T)
106	6350	18.63	18.77	1- 61	26	(T)

79	m,p-Xylenes			CAS#:		
106	6350	18.63	18.87	80-120	100	(T)
91	24806	18.62	18.87	165-225	391	(QT)

82	Bromoform			CAS#: 75-25-2		
173	938	19.81	19.54	80-120	100	(T)
175	11825	19.81	19.54	19- 79	1261	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	1173	19.69	19.97	80-120	100	(T)
75	3186	19.69	19.97	315-375	272	(QT)
77	1342	19.65	19.97	94-154	114	(T)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/022310v7/7a232.d
Lab Smp Id: 247332008 Client Smp ID: RE15-10-8377
Inj Date : 24-FEB-2010 03:22
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247332008|956739|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.35260	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	1961742	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane					CAS #:		
19.692	227452	5.79718166	6.1	0		0	75

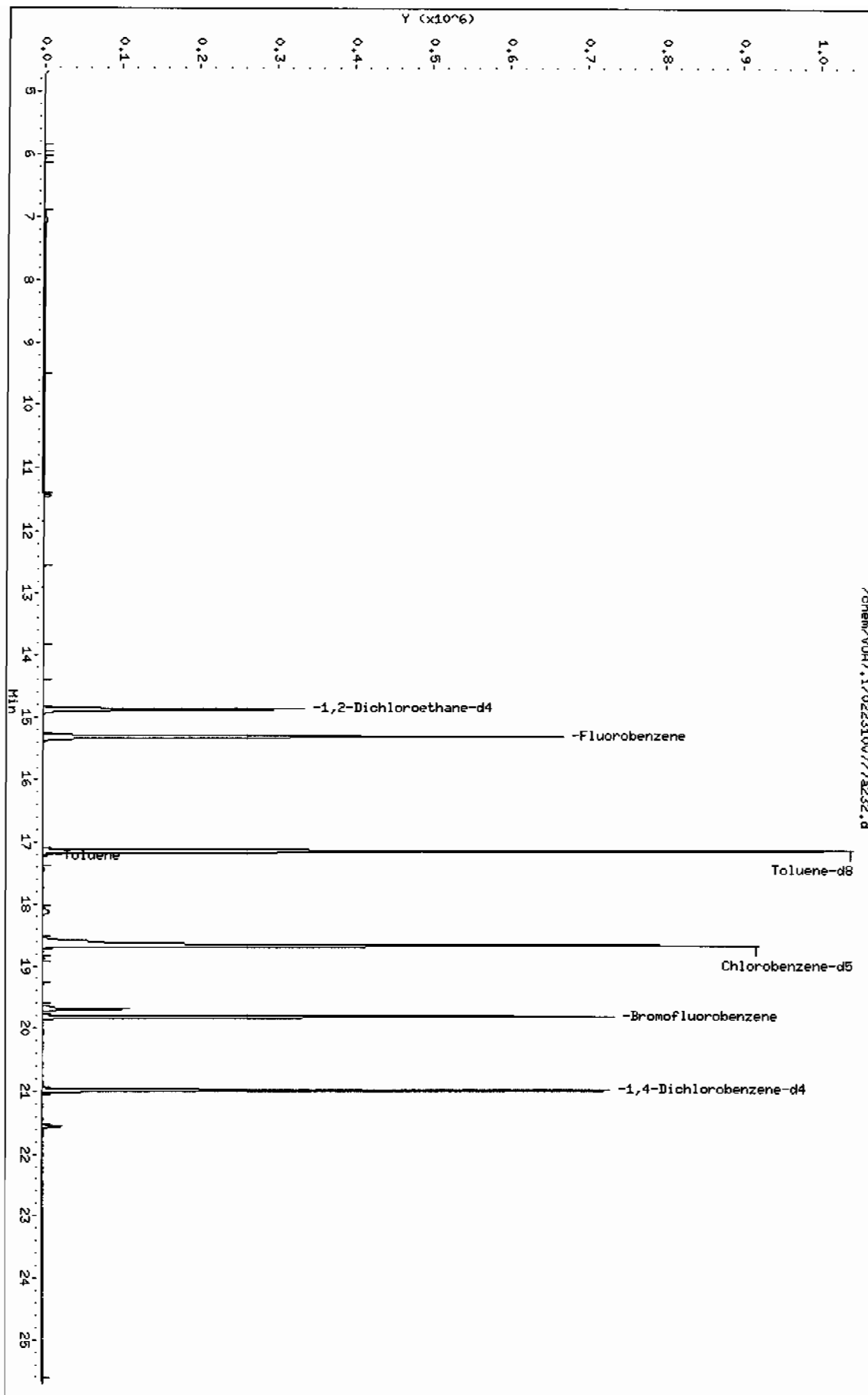
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Date: 24-FEB-2010 03:22
Client ID: RE15-10-8377
Sample Info: 1247332008195673911VOAF111

Column phase: DB-624

Instrument: VOA7.i

Operator: AX01
Column diameter: 0.25

Page 1



Date : 24-FEB-2010 03:22

Client ID: RE15-10-8377

Instrument: V0A7.i

Sample Info: I247332008|986739|11|V0AF|11|

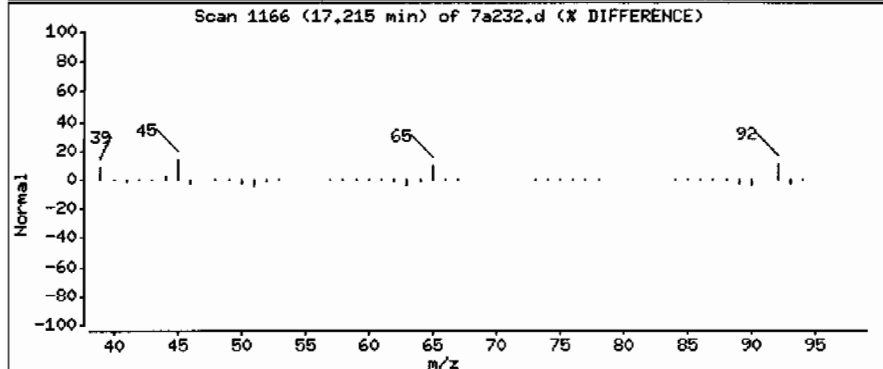
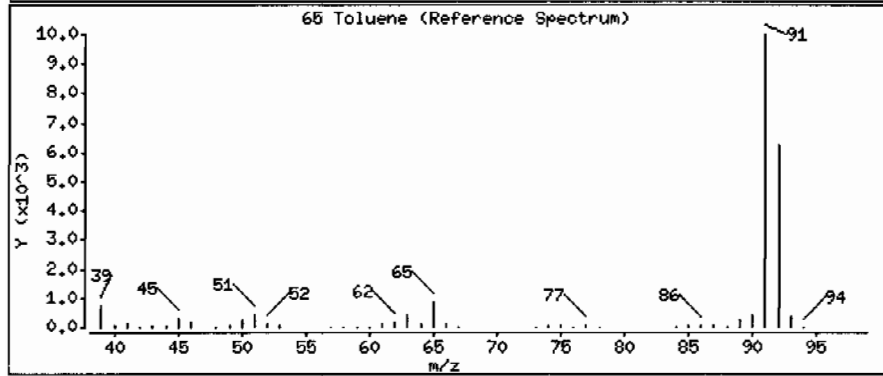
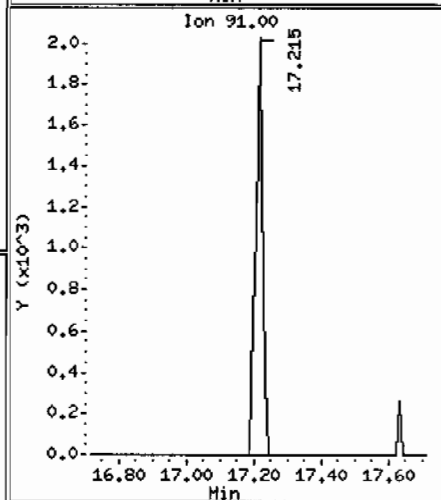
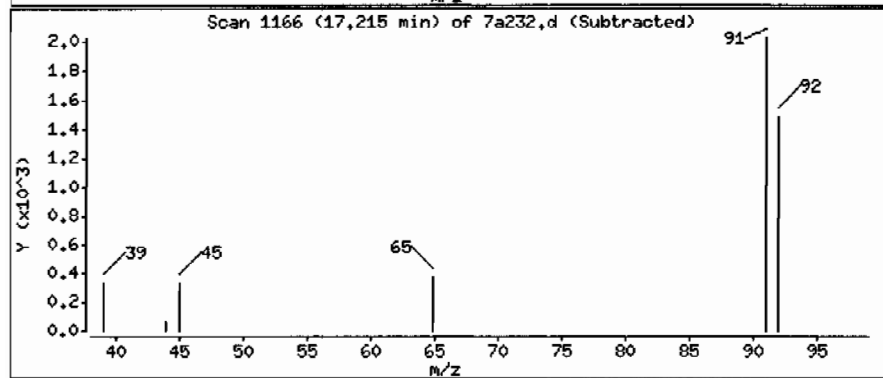
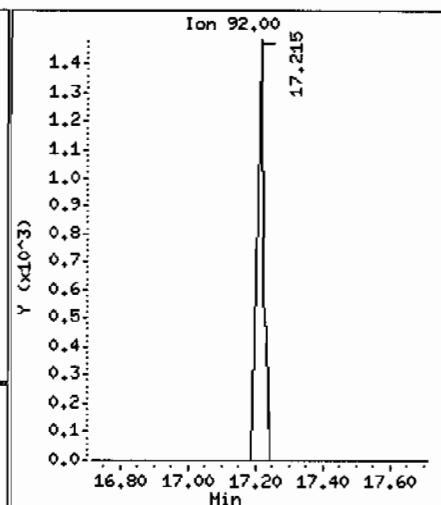
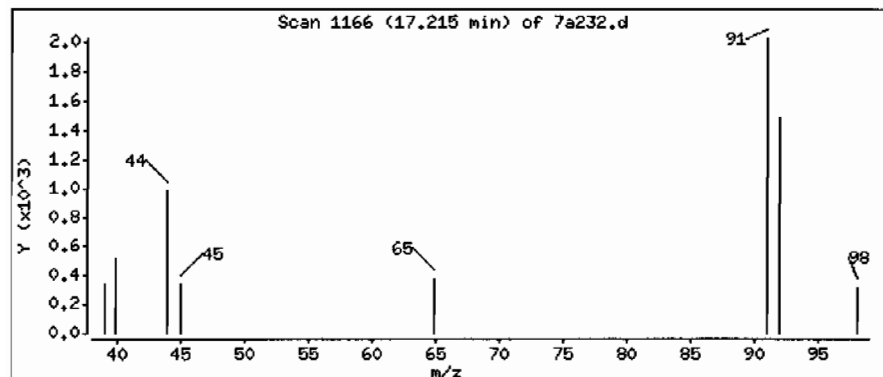
Operator: AX01

Column phase: DB-624

Column diameter: 0,25

65 Toluene

Concentration: 0.32 ug/Kg



Date : 24-FEB-2010 03:22

Client ID: RE15-10-8377

Instrument: V0A7.i

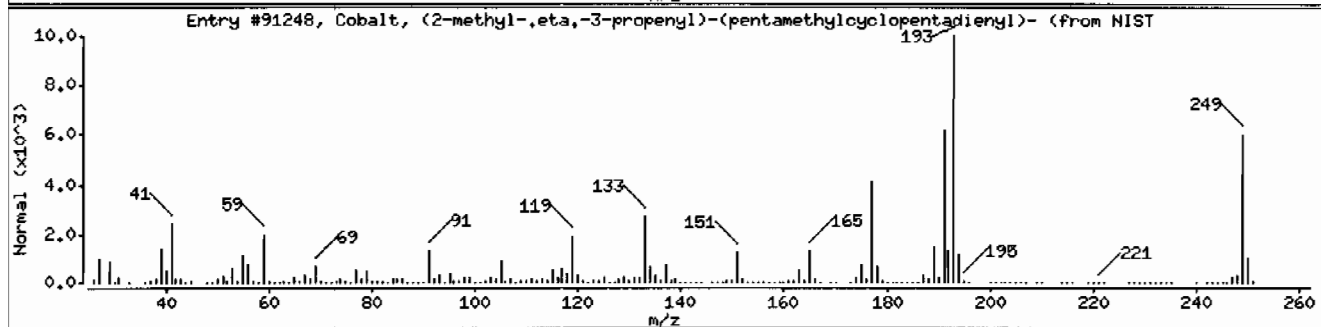
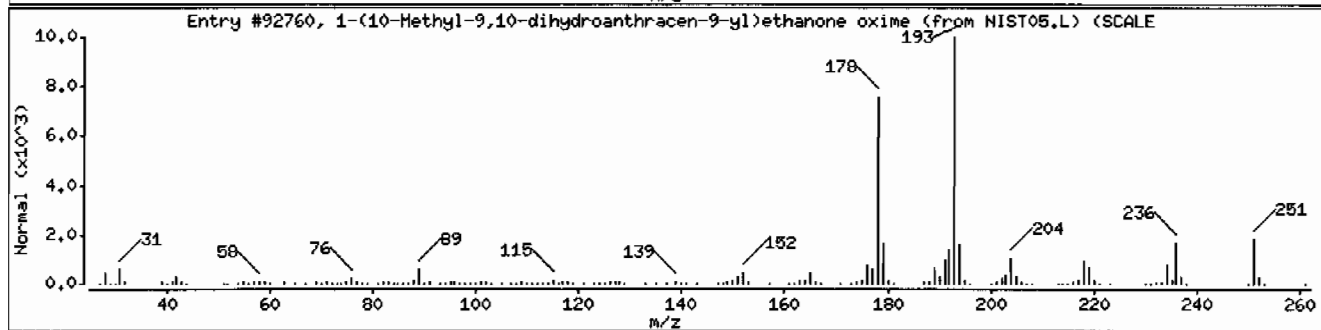
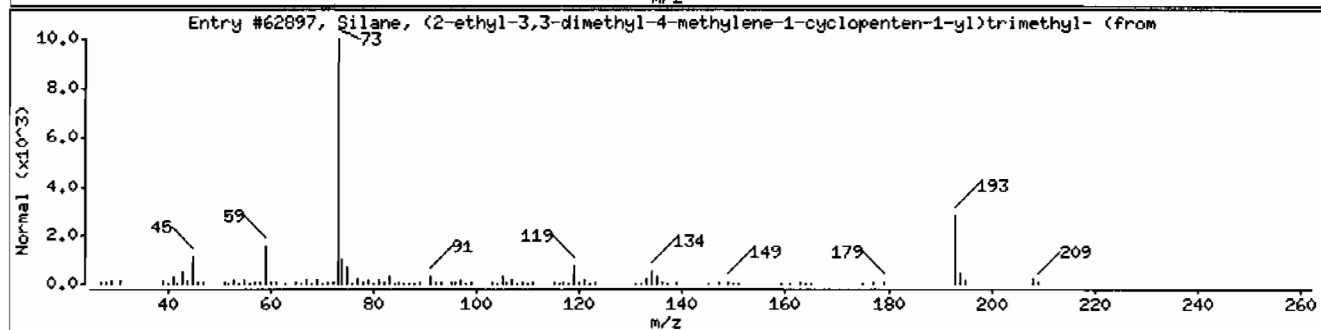
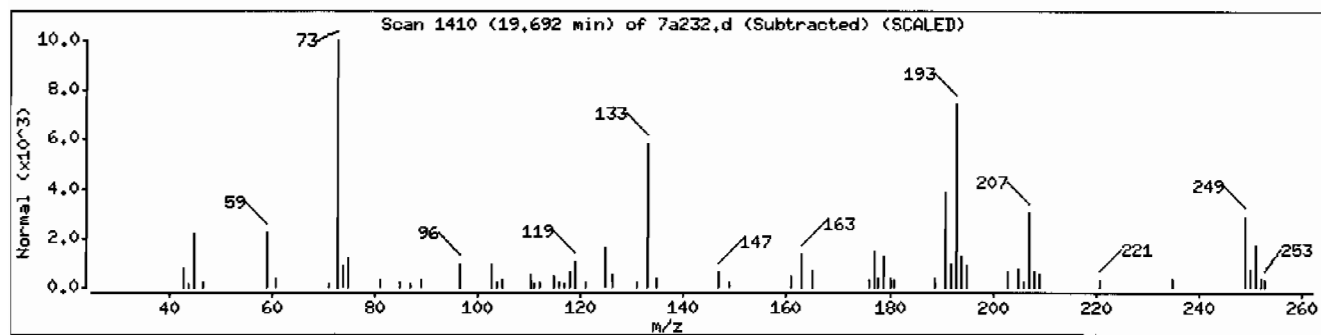
Sample Info: I247332008I956739I1IV0AFI1I

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Silane, (2-ethyl-3,3-dimethyl-4-methylen	95798-13-3	NIST05.L	62897	50	C ₁₃ H ₂₄ Si	208
1-(10-Methyl-9,10-dihydroanthracen-9-yl)	1000210-33-6	NIST05.L	92760	38	C ₁₇ H ₁₇ NO	251
Cobalt, (2-methyl-,eta,-3-propenyl)-(pen	1000157-04-3	NIST05.L	91248	35	C ₁₄ H ₂₂ Co	249



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332001

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.1
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: S
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8385
Batch ID: 956739
Run Date: 02/23/2010 23:19
Prep Date: 02/23/2010 15:36
Data File: 7a225.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	J	2.52	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	J	0.535	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 247332001

Date Collected: 02/12/2010 12:00
 Date Received: 02/18/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: S
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	5.23	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a225.d

Lab Smp Id: 247332001

Client Smp ID: RE15-10-8385

Inj Date : 23-FEB-2010 23:19

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247332001|956739|1|VOAF|1|

Misc Info : GEL 5mL N/A

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 25

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	913182	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	657760	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	314647	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	416846	52.8343	52.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1067860	49.8812	49.9
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	408064	49.3028	49.3
13 Acetone	43	10.505	10.413	(0.686)	15414	2.51998	2.5(a)
48 Benzene	78	14.982	14.982	(0.978)	10687	0.53522	0.54(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

ION RATIO REPORT

VOA REPORT

Data file: 7a225.d

Report Date: 02/24/2010 09:26

Lab. ID: 247332001

SampleType: SAMPLE

Injection Date: 23-FEB-2010 23:19

Operator: AX01

Instrument: VOA7.i

Sample Info: |247332001|956739|1|VOAF|1|

Miscellaneous Info: GEL 5mL N/A

Comment:

Method used: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
13	Acetone		CAS#: 67-64-1			
43	15414	10.50	10.41	80-120	100	(T)
58	2160	10.49	10.41	0- 59	14	(T)

48	Benzene		CAS#: 71-43-2			
78	10687	14.98	14.98	80-120	100	()
77	2768	15.00	14.98	0- 53	26	()
51	3980	14.97	14.98	0- 58	37	()

63	4-Methyl-2-pentanone		CAS#: 108-10-1			
58	13127	17.13	16.93	80-120	100	(T)
43	8403	17.13	16.93	221-281	64	(QT)
100	729955	17.13	16.94	0- 57	5561	(QT)

82	Bromoform		CAS#: 75-25-2			
173	1448	19.81	19.54	80-120	100	(T)
175	19696	19.81	19.54	19- 79	1359	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/022310v7/7a225.d
 Lab Smp Id: 247332001 Client Smp ID: RE15-10-8385
 Inj Date : 23-FEB-2010 23:19
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |247332001|956739|1|VOAF|1|
 Misc Info : GEL 5mL N/A
 Comment :
 Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
 Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 101 1,4-Dichlorobenzene-d4	20.991	2305611	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane					CAS #:		
21.550	241004	5.22646291	5.2	0		0	101

Data File: /chem/V007.i/022310v7/7a225.d

Date : 23-FEB-2010 23:19

Client ID: RE15-10-8385

Sample Info: 124733200195673911VCAF11

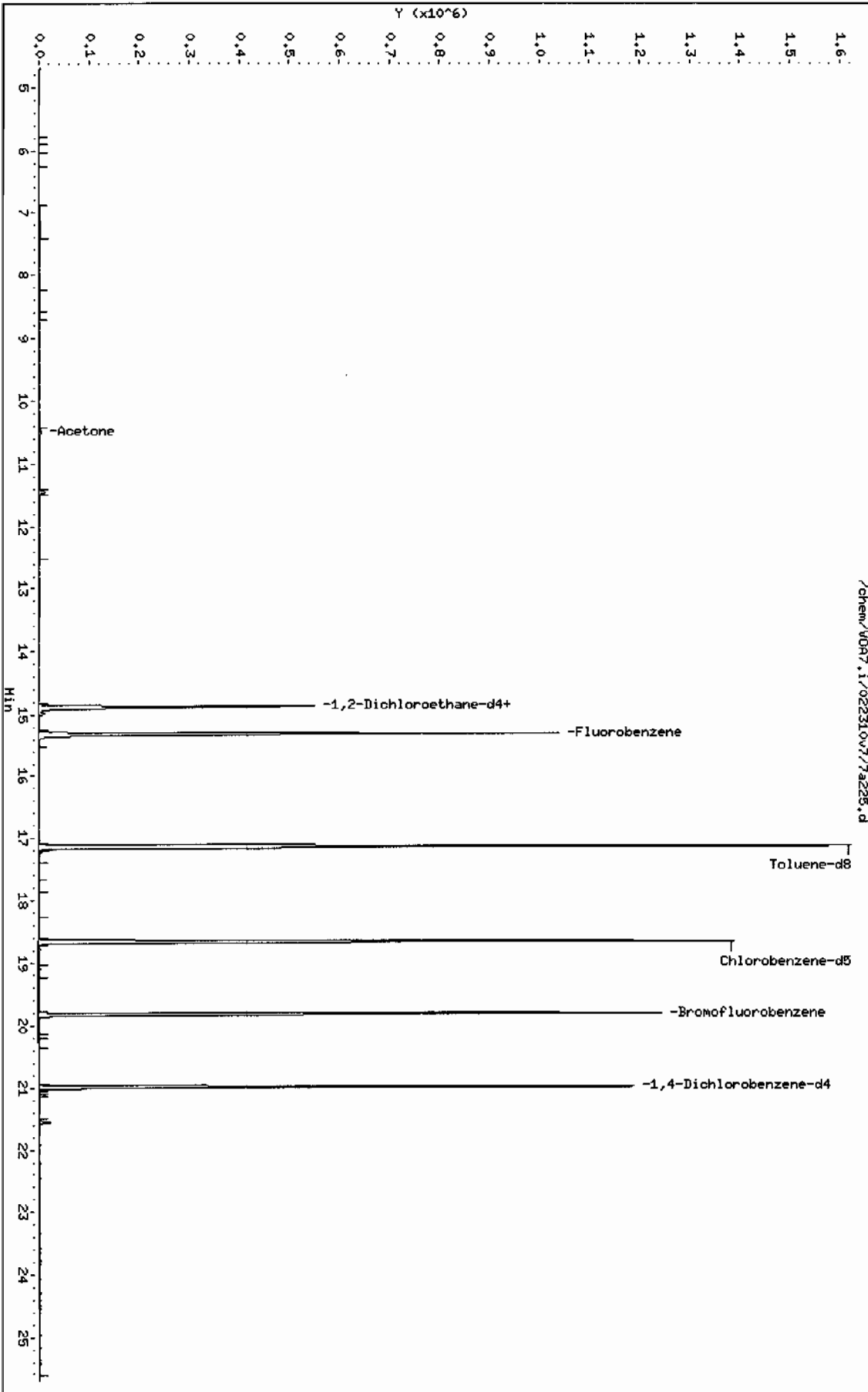
Column phase: DB-624

Instrument: V007.i

Operator: RK01

Column diameter: 0.25

Page 1



Date : 23-FEB-2010 23:19

Client ID: RE15-10-8385

Instrument: V0A7.i

Sample Info: 1247332001|95673911|V0AF11|

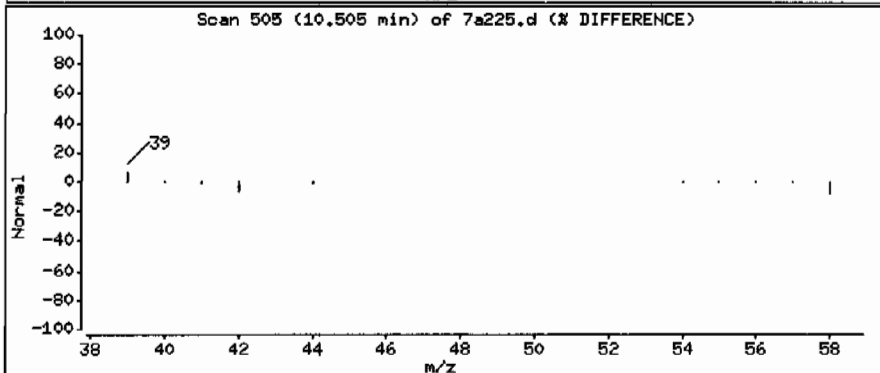
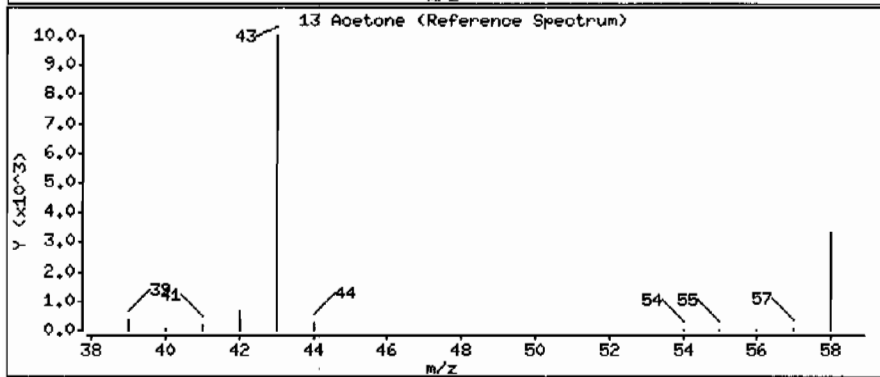
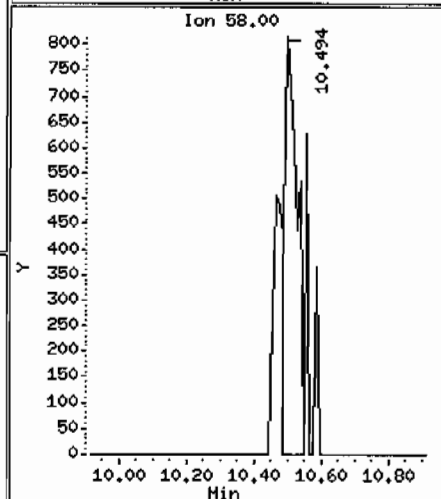
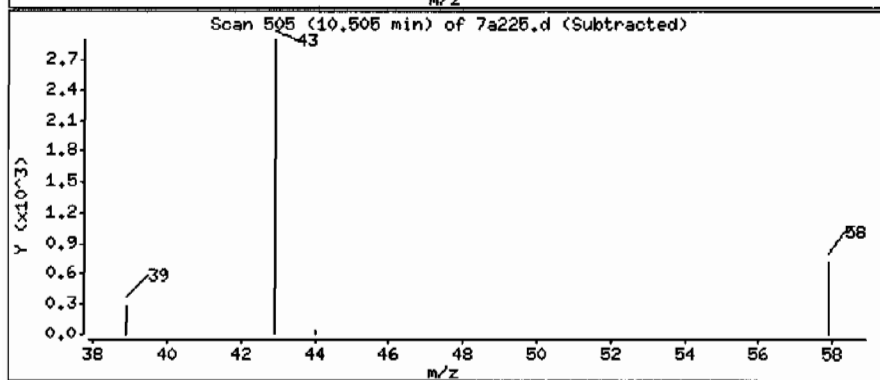
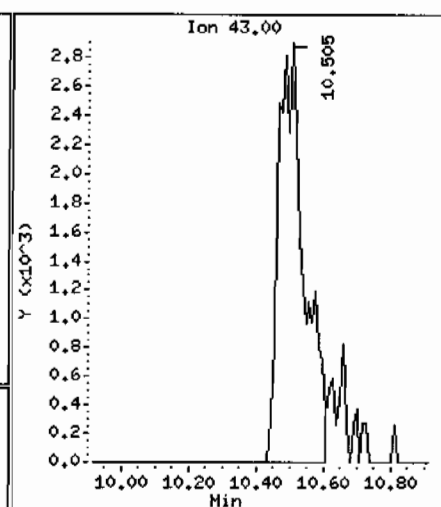
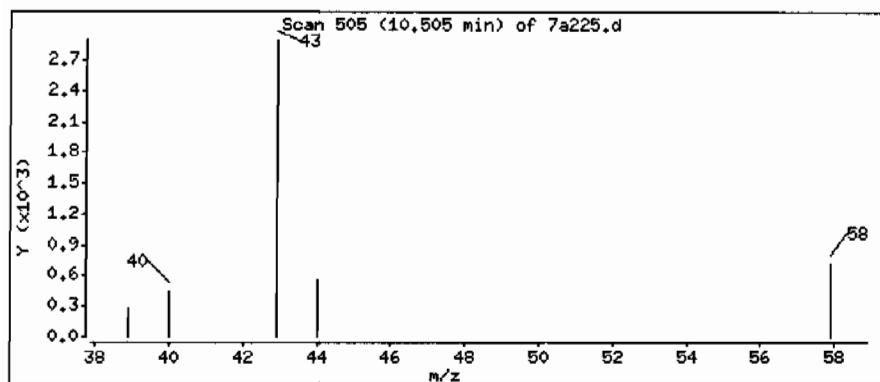
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

13 Acetone

Concentration: 2,5 ug/Kg



Date : 23-FEB-2010 23:19

Client ID: RE15-10-8385

Instrument: V0A7.i

Sample Info: 1247332001195673911|V0AF11|

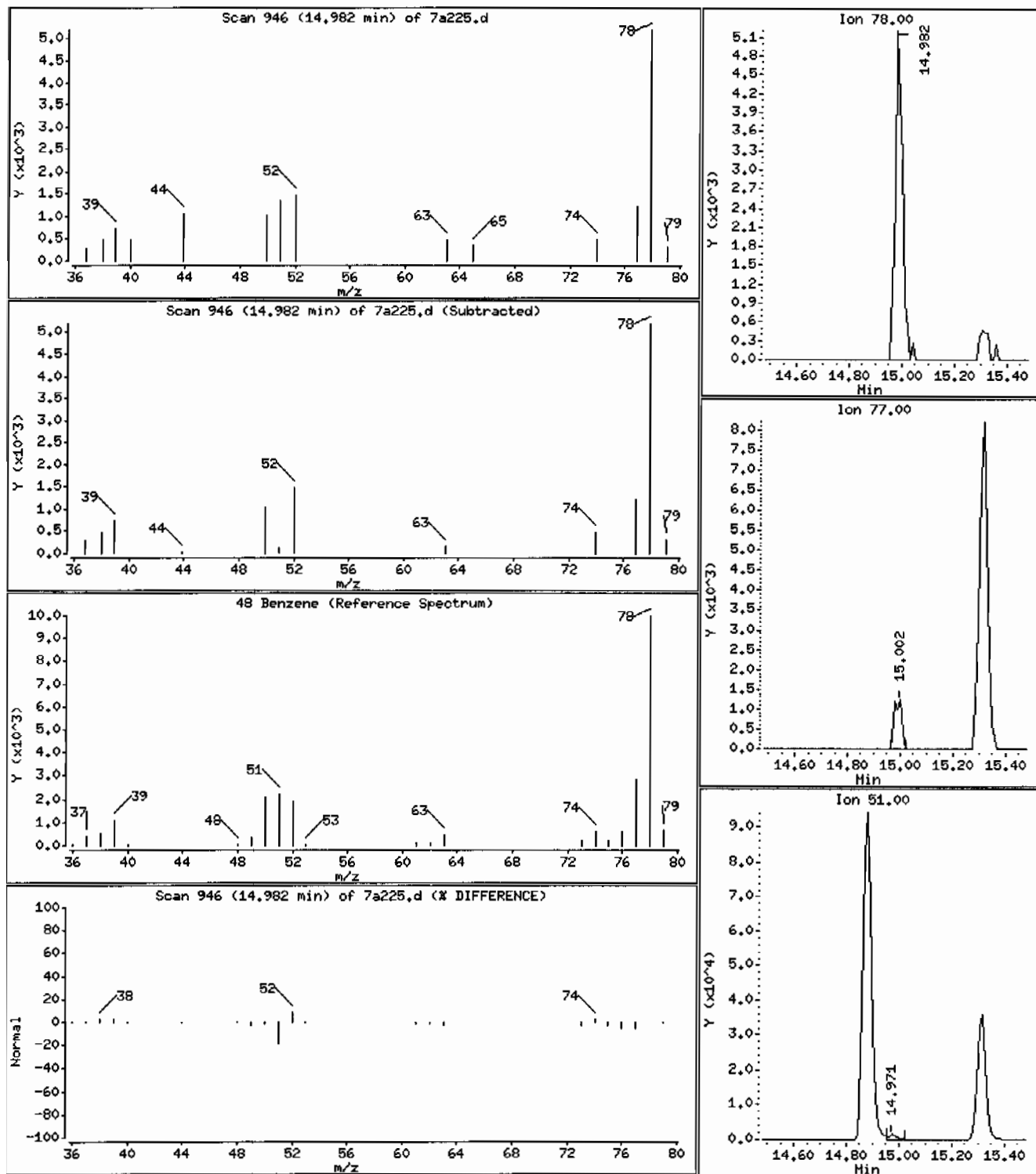
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

48 Benzene

Concentration: 0.54 ug/Kg



Data File: /chem/VOA7.i/022310v7/7a225.d

Page 1

Date : 23-FEB-2010 23:19

Client ID: RE15-10-8385

Instrument: VOA7.i

Sample Info: 1247332001195673911\VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match

CAS Number	Library	Entry	Quality	Formula	Weight
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Unknown Siloxane

Spiro[2.4]hept-5-ene, 5-trimethylsilylme

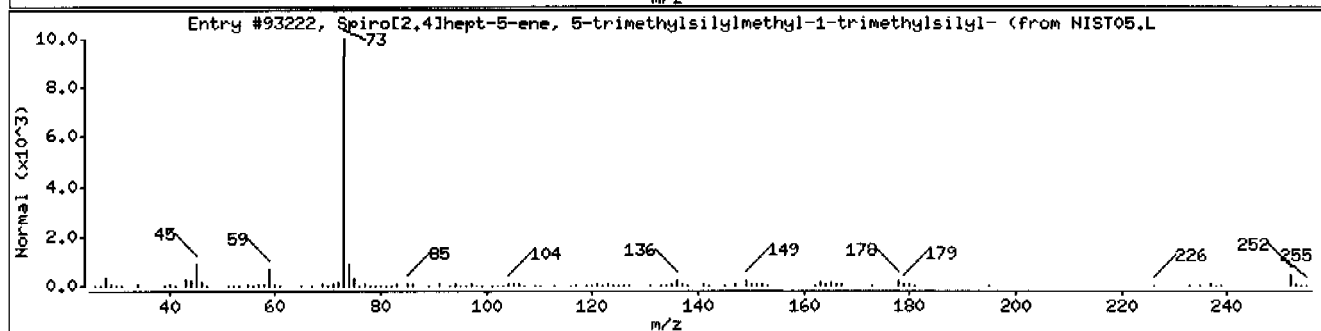
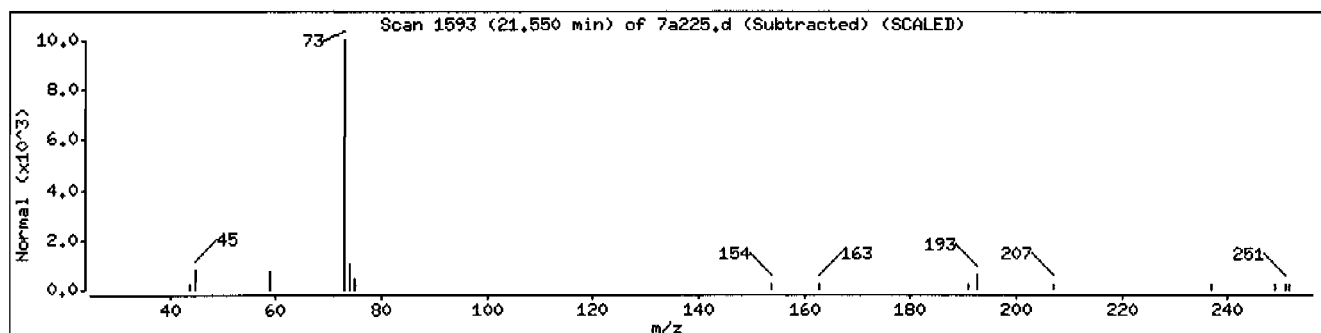
1000153-96-9 NIST05.L

93222

50

C₁₄H₂₈Si₂

252



Standard Data

EPA 524.2/Low level SW846 8260B and Regular level 8260B and EPA 624
Calibration Standard Concentration Levels

	Level 1	Level 1a	Level 2	Level 3	Level 4 #	Level 5	Level 6	Level 7 !	Level 7a
Fluorobenzene (IS)									
1,2-Dichloroethane-d4(surr)		0.5	1	2	5	10	20	50	100
Dichlorodifluoromethane		0.5	1	2	5	10	20	50	100
Chloromethane		0.5	1	2	5	10	20	50	100
Vinyl chloride		0.5	1	2	5	10	20	50	100
Bromomethane		0.5	1	2	5	10	20	50	100
Chloroethane		0.5	1	2	5	10	20	50	100
Trichlorofluoromethane		0.5	1	2	5	10	20	50	100
1,1-Dichloroethene		0.5	1	2	5	10	20	50	100
Acetone	1	2.5	5	10	25	50	100	250	500
Iodomethane	1	2.5	5	10	25	50	100	250	500
Carbon disulfide	1	2.5	5	10	25	50	100	250	500
Methylene chloride		0.5	1	2	5	10	20	50	100
trans-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
1,1-Dichloroethane		0.5	1	2	5	10	20	50	100
Ethyl ether		0.5	1	2	5	10	20	50	100
Vinyl acetate	1	2.5	5	10	25	50	100	250	500
cis-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
1,2-Dichloroethene (total)		1	2	4	10	20	40	100	200
Cyclohexene		0.5	1	2	5	10	20	50	100
2-Chloroethylvinyl ether			5	10	25	50	100	250	500
2,2-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Butanone	1	2.5	5	10	25	50	100	250	500
Bromochloromethane		0.5	1	2	5	10	20	50	100
Chloroform		0.5	1	2	5	10	20	50	100
1,1,1-Trichloroethane		0.5	1	2	5	10	20	50	100
1,1-Dichloropropene		0.5	1	2	5	10	20	50	100
Carbon tetrachloride		0.5	1	2	5	10	20	50	100
Benzene		0.5	1	2	5	10	20	50	100
1,2-Dichloroethane		0.5	1	2	5	10	20	50	100
Trichloroethene		0.5	1	2	5	10	20	50	100
1,2-Dichloropropane		0.5	1	2	5	10	20	50	100
Dibromomethane		0.5	1	2	5	10	20	50	100
Bromodichloromethane		0.5	1	2	5	10	20	50	100
cis-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
tert-Butylmethylether		0.5	1	2	5	10	20	50	100
Ethyl Ether			1	2	5	10	20	50	100
Acetonitrile			25	50	125	250	500	1250	2500
Methyl acetate			5	10	25	50	100	250	500
Cyclohexane			1	2	5	10	20	50	100
Methylcyclohexane			1	2	5	10	20	50	100
n-Butyl alcohol			50	100	250	500	1000	2500	5000
2-Nitropropane			5	10	25	50	100	250	500
Ethyl acetate			5	10	25	50	100	250	500
Acrolein			5	10	25	50	100	250	500
Trichlorotrifluoroethane			5	10	25	50	100	250	500
Allyl chloride			5	10	25	50	100	250	500
Acrylonitrile			5	10	25	50	100	250	500
1,4-Dioxane			50	100	250	500	1000	2500	5000
Isobutyl alcohol			50	100	250	500	1000	2500	5000
Methacrylonitrile			5	10	25	50	100	250	500
Propionitrile			5	10	25	50	100	250	500
Methyl methacrylate			5	10	25	50	100	250	500
Chlorotrifluoroethylene			5	10	25	50	100	250	500
2-Chloro-1,1,1-trifluoroethane			5	10	25	50	100	250	500

tert-Butyl alcohol			50	100	250	500	1000	2500	5000
Isopropyl ether			1	2	5	10	20	50	100
Ethyl tert-butyl ether			1	2	5	10	20	50	100
Isopropyl alcohol			50	100	250	500	1000	2500	5000
Methyl tert-amyl ether			1	2	5	10	20	50	100
1-Chlorohexane			1	2	5	10	20	50	100
2-Chloro-1,3-butadiene(chloroprene)			1	2	5	10	20	50	100
Chlorobenzene-d5 (IS)									
Toluene-d8 (surr)		0.5	1	2	5	10	20	50	100
4-Methyl-2-pentanone	1	2.5	5	10	25	50	100	250	500
Toluene		0.5	1	2	5	10	20	50	100
trans-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
1,1,2-Trichloroethane		0.5	1	2	5	10	20	50	100
Tetrachloroethene		0.5	1	2	5	10	20	50	100
1,3-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Hexanone	1	2.5	5	10	25	50	20	250	500
Dibromochloromethane		0.5	1	2	5	10	20	50	100
1,2-Dibromoethane		0.5	1	2	5	10	20	50	100
Chlorobenzene		0.5	1	2	5	10	20	50	100
1,1,1,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Ethylbenzene		0.5	1	2	5	10	20	50	100
m,p-Xylene		1	2	4	10	20	20	100	200
o-Xylene		0.5	1	2	5	10	20	50	100
Xylenes (total)		1.5	3	6	15	30	60	150	300
Stryene		0.5	1	2	5	10	20	50	100
Cyclohexanone			50	100	250	500	1000	2500	5000
Ethyl methacrylate			5	10	25	50	100	250	500
1,4-Dichlorobenzene-d4 (IS)									
Bromofluorobenzene (surr)		0.5	1	2	5	10	20	50	100
Bromoform		0.5	1	2	5	10	20	50	100
Isopropylbenzene		0.5	1	2	5	10	20	50	100
1,1,2,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Bromobenzene		0.5	1	2	5	10	20	50	100
1,2,3-Trichloropropane		0.5	1	2	5	10	20	50	100
n-Propylbenzene		0.5	1	2	5	10	20	50	100
2-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,3,5-Trimethylbenzene		0.5	1	2	5	10	20	50	100
4-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,2,4-Trimethylbenzene		0.5	1	2	5	10	20	50	100
sec-Butylbenzene		0.5	1	2	5	10	20	50	100
1,3-Dichlorobenzene		0.5	1	2	5	10	20	50	100
tert-Butylbenzene		0.5	1	2	5	10	20	50	100
Isopropyltoluene		0.5	1	2	5	10	20	50	100
1,4-Dichlorobenzene		0.5	1	2	5	10	20	50	100
n-Butylbenzene		0.5	1	2	5	10	20	50	100
1,2-Dichlorobenzene		0.5	1	2	5	10	20	50	100
1,2-Dibromo-3-chloropropene		0.5	1	2	5	10	20	50	100
1,2,4-Trichlorobenzene		0.5	1	2	5	10	20	50	100
Hexachlorobutadiene		0.5	1	2	5	10	20	50	100
Naphthalene		0.5	1	2	5	10	20	50	100
1,2,3-Trichlorobenzene		0.5	1	2	5	10	20	50	100
cis-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
trans-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
Tetrahydrofuran			5	10	25	50	100	250	500
Pentachloroethane			5	10	25	50	100	250	500
Benzyl chloride			5	10	25	50	100	250	500
bis(2-Chloro-isopropyl)ether			5	10	25	50	100	250	500

Report Date: 25-Feb-2010 08:03

Calibration History

Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Start Cal Date: 17-FEB-2010 16:02

End Cal Date : 18-FEB-2010 00:42

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
17-FEB-2010 21:14	ICALsubS	/chem/VOA7.i/021710v7/7z319.d
17-FEB-2010 16:02	ICALsubL+	/chem/VOA7.i/021710v7/7z310.d
Cal Level: 2 , Cal Amount: 2.00000		
17-FEB-2010 21:49	ICALsubS	/chem/VOA7.i/021710v7/7z320.d
17-FEB-2010 16:35	ICALsubL+	/chem/VOA7.i/021710v7/7z311.d
Cal Level: 3 , Cal Amount: 5.00000		
17-FEB-2010 22:24	ICALsubS	/chem/VOA7.i/021710v7/7z321.d
17-FEB-2010 17:09	ICALsubL+	/chem/VOA7.i/021710v7/7z312.d
Cal Level: 4 , Cal Amount: 10.00000		
17-FEB-2010 22:59	ICALsubS	/chem/VOA7.i/021710v7/7z322.d
17-FEB-2010 17:44	ICALsubL+	/chem/VOA7.i/021710v7/7z313.d
Cal Level: 5 , Cal Amount: 20.00000		
17-FEB-2010 23:33	ICALsubS	/chem/VOA7.i/021710v7/7z323.d
17-FEB-2010 18:20	ICALsubL+	/chem/VOA7.i/021710v7/7z314.d
Cal Level: 6 , Cal Amount: 50.00000		
18-FEB-2010 00:08	ICALsubS	/chem/VOA7.i/021710v7/7z324.d
17-FEB-2010 18:55	ICALsubL+	/chem/VOA7.i/021710v7/7z315.d
Cal Level: 7 , Cal Amount: 100.00000		
18-FEB-2010 00:42	ICALsubS	/chem/VOA7.i/021710v7/7z325.d
17-FEB-2010 19:30	ICALsubL+	/chem/VOA7.i/021710v7/7z316.d
Cal Level: 8 , Cal Amount: 200.00000		
17-FEB-2010 20:39	BENZENE+	/chem/VOA7.i/021710v7/7z318.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.0	
24-FEB-2010 10:51	CALsubL+ /chem/VOA7.i/022410v7/7a302.d
Ccal Level: 6 , Ccal Amount: 50.0	
24-FEB-2010 12:33	CALsubS+SS /chem/VOA7.i/022410v7/7a305.d

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Calibration File Names:

Level 1: /chem/VOA7.i/021710v7/7z319.d
 Level 2: /chem/VOA7.i/021710v7/7z320.d
 Level 3: /chem/VOA7.i/021710v7/7z321.d
 Level 4: /chem/VOA7.i/021710v7/7z322.d
 Level 5: /chem/VOA7.i/021710v7/7z323.d
 Level 6: /chem/VOA7.i/021710v7/7z324.d
 Level 7: /chem/VOA7.i/021710v7/7z325.d
 Level 8: /chem/VOA7.i/021710v7/7z318.d

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
1 1,3-Dichloropropylene	0.42063 0.47574	0.42665 ++++	0.45952	0.44593	0.48874	0.44785	AVRG		0.45215		5.45519
2 Xylenes (total)	0.62830 0.62692	0.67143 ++++	0.66860	0.64173	0.68474	0.59685	AVRG		0.64551		4.80271
3 1,2-Dichloroethylene (total)	0.54927 0.46213	0.50779 ++++	0.51933	0.49776	0.47859	0.45089	AVRG		0.49511		6.90087
147 Chlorotrifluoroethylene	++++ ++++	0.10076 ++++	0.11210	0.09704	0.11905	0.10241	AVRG		0.10627		8.51602
148 2-Chloro-1,1,1-trifluoroethane	++++ 0.18804	0.2327 ++++	0.22089	0.21365	0.20617	0.20476	AVRG		0.21104		7.23518

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
4 Dichlorodifluoromethane	0.14689 0.14671	0.16337 ++++	0.17771	0.15010	0.15669	0.14834	AVRG		0.15569		7.36086
5 Chloromethane	0.52870 0.38772	0.50818 ++++	0.48152	0.45665	0.48246	0.42873	AVRG		0.46771		10.25591
6 Vinyl chloride	0.50952 0.32494	0.46079 ++++	0.43218	0.40625	0.41055	0.36375	AVRG		0.41543		14.62877
7 Bromomethane	0.25780 0.22760	0.23623 ++++	0.23278	0.22734	0.24344	0.23277	AVRG		0.23685		4.53392
8 Chloroethane	0.22734 0.20451	0.22323 ++++	0.21132	0.20164	0.21135	0.20785	AVRG		0.21246		4.47108
9 Trichlorofluoromethane	0.35996 0.28982	0.35068 ++++	0.30112	0.30563	0.31443	0.30426	AVRG		0.31799		8.38225
10 Ethyl Ether	0.28008 0.29597	0.32062 ++++	0.28724	0.29016	0.29781	0.29886	AVRG		0.29582		4.32385
11 Acrolein	0.04418 0.06092	0.03949 ++++	0.04544	0.04756	0.04531	0.05365	AVRG		0.04808		14.70368
12 Trichlorotrifluoroethane	0.10245 0.07720	0.09727 ++++	0.09404	0.09075	0.07953	0.07034	AVRG		0.08737		13.51328

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
	100	200									
	Level 7	Level 8									
13 Acetone	0.371221	0.36279	0.32383	0.32614	0.34124	0.31027	AVRG		0.33491		7.33338
	0.30889	++++									
14 1,1-Dichloroethylene	0.23466	0.22304	0.23525	0.21218	0.20855	0.19843	AVRG		0.21744		6.41898
	0.20998	++++									
15 Isopropyl Alcohol	0.03379	0.02848	0.03362	0.03382	0.03438	0.02970	AVRG		0.03252		7.32915
	0.03385	++++									
16 Iodomethane	0.39608	0.36645	0.40560	0.38566	0.35788	0.35975	AVRG		0.37891		4.84456
	0.38094	++++									
17 Acetonitrile	0.06193	0.06381	0.05756	0.05797	0.05730	0.06594	AVRG		0.05935		8.41770
	0.05095	++++									
18 Methyl acetate	0.35515	0.29749	0.32852	0.31506	0.29869	0.29447	AVRG		0.30971		8.25337
	0.27857	++++									
19 Carbon disulfide	0.89266	0.79048	0.83100	0.78713	0.71568	0.68163	AVRG		0.76494		11.07438
	0.65599	++++									
20 Allyl chloride	0.53968	0.50526	0.50958	0.48676	0.45362	0.42965	AVRG		0.47439		10.59305
	0.39621	++++									
21 tert-Butyl Alcohol	0.05167	0.04139	0.04764	0.04767	0.05022	0.04265	AVRG		0.04700		7.96307
	0.04776	++++									

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
22 Methylene chloride	++++ 0.19549	0.23820 ++++	0.21441	0.20690	0.19068	0.18599	AVRG		0.20428		9.44493
23 Acrylonitrile	0.13731 0.13157	0.12635 ++++	0.14147	0.13774	0.13619	0.13170	AVRG		0.13462		3.74591
24 tert-Butyl methyl ether	0.80994 0.78981	0.81750 ++++	0.75450	0.77254	0.73118	0.73829	AVRG		0.77339		4.39216
25 trans-1,2-Dichloroethylene	0.50384 0.42206	0.46689 ++++	0.48692	0.46195	0.45327	0.42294	AVRG		0.45970		6.61934
26 Vinyl acetate	0.77450 0.60197	0.85406 ++++	0.75761	0.81966	0.81586	0.69432	AVRG		0.75971		11.40322
27 Isopropyl ether	++++ 1.18690	1.28662 ++++	1.29461	1.35198	1.29488	1.24203	AVRG		1.27617		4.38816
28 1,1-Dichloroethane	0.61604 0.58003	0.62372 ++++	0.63881	0.58962	0.58167	0.55743	AVRG		0.59819		4.80576
29 2-Chloro-1,3-butadiene	0.41421 0.37943	0.42657 ++++	0.42523	0.41666	0.39568	0.39845	AVRG		0.40803		4.26210
30 Ethyl tert-butyl ether	++++ 0.90285	0.84231 ++++	0.83069	0.85509	0.90158	0.89776	AVRG		0.87171		3.75724

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
	100 Level 7	200 Level 8									
31 2-Butanone	0.38771 0.34266	0.40391 ++++	0.35922	0.36946	0.40769	0.34405	AVRG		0.37353		7.19573
32 Ethyl acetate	0.44278 0.33414	0.41784 ++++	0.45125	0.42632	0.40256	0.35807	AVRG		0.40471		10.77753
33 cis-1,2-Dichloroethylene	0.59471 0.50219	0.54869 ++++	0.55173	0.53357	0.50390	0.47885	AVRG		0.53052		7.33716
34 2,2-Dichloropropane	0.29938 0.25653	0.24188 ++++	0.25597	0.23681	0.21790	0.23089	AVRG		0.24848		10.56617
35 Propionitrile	0.07002 0.05642	0.05258 ++++	0.06457	0.05980	0.05683	0.05325	AVRG		0.05907		10.68190
36 Methacrylonitrile	0.25818 0.21528	0.24456 ++++	0.27034	0.26013	0.24380	0.22478	AVRG		0.24530		8.04738
37 Bromochloromethane	0.40223 0.37692	0.39817 ++++	0.41300	0.40043	0.38909	0.36555	AVRG		0.39220		4.15023
38 Chloroform	0.58519 0.47062	0.49407 ++++	0.49340	0.48912	0.49932	0.45410	AVRG		0.49798		8.35869
39 Tetrahydrofuran	0.47764 0.35812	0.44454 ++++	0.45944	0.42050	0.41053	0.36338	AVRG		0.41916		10.93258

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
41 1,1,1-Trichloroethane	0.334631 0.347471	0.352011 ++++	0.359801	0.337031	0.336801	0.324381	AVRG		0.341731		3.509111
42 Isobutyl alcohol	0.018941 0.016401	0.016941 ++++	0.019621	0.018521	0.018231	0.016751	AVRG		0.017911		6.844591
43 Cyclohexane	0.666841 0.486681	0.579071 ++++	0.601391	0.532331	0.537751	0.484361	AVRG		0.555491		11.783901
44 1,1-Dichloropropene	0.373541 0.332951	0.386781 ++++	0.368711	0.365531	0.351851	0.325211	AVRG		0.357801		6.230181
45 Carbon tetrachloride	0.303691 0.275531	0.247991 ++++	0.290601	0.260481	0.268061	0.257051	AVRG		0.271911		7.217481
47 1,2-Dichloroethane	0.540331 0.478611	0.472381 ++++	0.505081	0.496981	0.493371	0.452531	AVRG		0.491331		5.667951
48 Benzene	1.154821 0.997231	1.063641 1.322851	1.130971	1.064711	1.033201	0.978861	AVRG		1.093291		10.110801
49 Methyl tert-amyl ether	0.725841 0.563901	0.623911 ++++	0.625161	0.648411	0.705611	0.689791	AVRG		0.669781		6.466141
50 Cyclohexene	0.489871	0.506101 ++++	0.541711	0.516541	0.514541	0.472901	AVRG		0.515081		5.926031

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	i	Level 1	2	Level 2	5	Level 3	10	Level 4	20	Level 5	50	Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
		Level 7	Level 8														
	100		200														
52 n-Butyl alcohol	0.01179	0.01241	0.01216	0.01341	0.01403	0.01399											
	0.01388	0.01234				AVRG									0.01300		7.09548
53 Trichloroethylene	0.27430	0.26438	0.27397	0.26519	0.27618	0.24387											
	0.25637	++++				AVRG									0.26489		4.39586
54 Methyl methacrylate	0.22336	0.20671	0.22931	0.22055	0.21809	0.21228											
	0.20756	++++				AVRG									0.21684		3.87232
55 Methylcyclohexane	0.49966	0.43861	0.44481	0.44006	0.43612	0.40383											
	0.42078	++++				AVRG									0.44055		6.73024
56 1,2-Dichloropropane	0.39245	0.36897	0.38177	0.37142	0.36583	0.33120											
	0.33677	++++				AVRG									0.36406		6.16845
57 1,4-Dioxane	0.00348	0.00250	0.00354	0.00334	0.00323	0.00313											
	0.00359	++++				AVRG									0.00326		11.42936
58 Dibromomethane	0.19196	0.19723	0.19939	0.19727	0.19889	0.19046											
	0.19944	++++				AVRG									0.19638		1.86881
59 Bromodichloromethane	0.39732	0.36909	0.39631	0.38593	0.41432	0.37605											
	0.39410	++++				AVRG									0.39044		3.84034
60 2-Nitropropane	0.13385	0.11919	0.14652	0.14531	0.14750	0.14329											
	0.14680	++++				AVRG									0.14035		7.43854

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
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 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
	100	200									
	Level 7	Level 8									
61 2-Chloroethylvinyl ether	0.13828	0.13131	0.13224	0.14312	0.14531	0.15383	AVRG		0.14176		5.85520
	0.14819	++++									
62 cis-1,3-Dichloropropylene	0.44683	0.46424	0.48235	0.47289	0.50753	0.46544	AVRG		0.47551		4.13438
	0.48927	++++									
63 4-Methyl-2-pentanone	0.24889	0.25775	0.24134	0.24113	0.27708	0.22508	AVRG		0.24607		7.06681
	0.23121	++++									
65 Toluene	0.99540	0.91525	0.94675	0.88594	0.89959	0.81410	AVRG		0.90021		6.75427
	0.84445	++++									
66 Ethyl methacrylate	0.58277	0.54247	0.62302	0.60387	0.58118	0.57129	AVRG		0.57238		6.98256
	0.50204	++++									
67 trans-1,3-Dichloropropylene	0.57975	0.56956	0.63061	0.60000	0.66595	0.59758	AVRG		0.61004		5.45435
	0.62680	++++									
68 1,1,2-Trichloroethane	0.34428	0.35523	0.35299	0.34101	0.36031	0.31095	AVRG		0.33917		6.14376
	0.30944	++++									
69 2-Hexanone	0.73685	0.78422	0.70044	0.68470	0.76383	0.58953	AVRG		0.68092		14.65103
	0.50687	++++									
70 1,3-Dichloropropane	0.69293	0.71194	0.70218	0.70482	0.75363	0.66338	AVRG		0.69553		5.22166
	0.63986	++++									

GEL Laboratories LLC

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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1	2	5	10	20	50	Curve	b	Coefficients ml	m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	200									
	Level 7	Level 8									
71 Tetrachloroethylene	0.28354	0.25342	0.26414	0.23364	0.24287	0.22289					
	0.24094	++++					AVRG		0.24878		9.14204
72 Dibromochloromethane	0.33269	0.34579	0.36231	0.35639	0.40520	0.36488					
	0.39353	++++					AVRG		0.36583		6.98702
73 1,2-Dibromoethane	0.36328	0.35222	0.36077	0.36799	0.40005	0.35812					
	0.37253	++++					AVRG		0.36785		4.25309
74 1-Chlorohexane	0.34706	0.30121	0.31913	0.33191	0.32325	0.30402					
	0.30890	++++					AVRG		0.31936		5.13508
76 Chlorobenzene	1.01098	0.95127	0.95000	0.91236	0.96965	0.82857					
	0.86362	++++					AVRG		0.92664		6.81260
77 1,1,1,2-Tetrachloroethane	0.30146	0.31109	0.30197	0.30384	0.34945	0.31502					
	0.35239	++++					AVRG		0.31932		6.94131
78 Ethylbenzene	1.85154	1.82479	1.76134	1.68668	1.76608	1.44831					
	1.43524	++++					AVRG		1.68200		10.24073
79 m,p-Xy-enes	0.62114	0.67062	0.65895	0.62920	0.66820	0.57827					
	0.60453	++++					AVRG		0.63299		5.50638
80 o-Xylene	0.64264	0.67305	0.68788	0.66680	0.71782	0.63403					
	0.67170	++++					AVRG		0.67056		4.16006

GEL Laboratories LLC
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 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	ml	Coefficients	m2	%RSD or R^2
	100	200										
	Level 7	Level 8										
81 Styrene	1.03480	1.05435	1.09579	1.08161	1.17767	1.02490	AVRG		1.07382			4.85533
	1.04761	++++										
82 Bromoform	0.44800	0.46729	0.45445	0.44703	0.54809	0.46991	AVRG		0.47906			8.15291
	0.51866	++++										
83 Isopropylbenzene	3.49497	3.66615	3.43580	3.19632	3.44542	2.75679	AVRG		3.23464			12.06581
	2.64705	++++										
84 cis-1,4-Dichloro-2-butene	0.38069	0.31673	0.41215	0.40845	0.41138	0.39737	AVRG		0.38900			8.67306
	0.39623	++++										
85 Cyclohexanone	0.03195	0.02350	0.02895	0.02863	0.02827	++++	AVRG		0.02826			10.75061
	++++	++++										
87 1,1,2,2-Tetrachloroethane	1.19265	1.21572	1.15731	1.10829	1.25926	1.00651	AVRG		1.13151			9.31719
	0.98082	++++										
88 trans-1,4-Dichloro-2-butene	0.31891	0.31312	0.36778	0.36391	0.36234	0.36318	AVRG		0.35107			6.86595
	0.36821	++++										
89 2,3-Trichloropropane	0.28647	0.24666	0.22625	0.24828	0.25953	0.22210	AVRG		0.24620			8.97349
	0.23411	++++										
90 Bromobenzene	0.76034	0.78745	0.77871	0.75408	0.80267	0.68660	AVRG		0.75737			5.14118
	0.73175	++++										

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 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	200									
	Level 7	Level 8									
91 n-Propylbenzene	4.68347 3.27290	4.56352 ++++	4.37500	4.07800	4.36558	3.44795	AVRG		4.11235		13.35638
92 1,3,5-Trimethylbenzene	2.81587 2.37547	2.87105 ++++	2.68849	2.60394	2.92918	2.42595	AVRG		2.67285		8.07975
93 2-Chlorotoluene	3.05461 2.42881	3.13194 ++++	2.82160	2.73305	3.05604	2.48242	AVRG		2.81550		10.07173
94 4-Chlorotoluene	2.83303 2.18348	2.73655 ++++	2.57278	2.45072	2.69458	2.22008	AVRG		2.52732		0.03292
95 tert-Butylbenzene	2.54254 2.18802	2.53348 ++++	2.52529	2.35277	2.63624	2.17076	AVRG		2.42130		7.65601
96 1,2,4-Trimethylbenzene	2.83048 2.43799	2.81952 ++++	2.78705	2.63535	2.97059	2.45445	AVRG		2.70506		7.47088
97 Pentachloroethane	0.26106 0.27493	0.28148 ++++	0.29783	0.29968	0.26523	0.23207	AVRG		0.28176		5.48711
98 sec-Butylbenzene	3.89578 2.97444	3.94634 ++++	3.68073	3.52735	3.87381	3.06099	AVRG		3.56563		11.26370
99 4-Isopropyltoluene	2.79121 2.29722	2.68596 ++++	2.60196	2.47043	2.87417	2.31964	AVRG		2.57723		8.71312

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
100 1,3-Dichlorobenzene	1.69373 1.32887	1.54028 ++++	1.50003	1.42658	1.57954	1.28805	AVRG	1.47958	9.64386		
102 1,4-Dichlorobenzene	1.53770 1.34055	1.53666 ++++	1.49633	1.39235	1.50686	1.30262	AVRG	1.44472	6.77070		
103 Benzyl chloride	1.17587 1.21970	1.11939 ++++	1.30663	1.30678	1.28136	1.26359	AVRG	1.23904	5.72889		
104 n-Butylbenzene	3.34819 2.50844	3.21649 ++++	3.03466	2.89314	3.28392	2.61464	AVRG	2.98564	11.02434		
105 1,2-Dichlorobenzene	1.50093 1.36521	1.58906 ++++	1.51728	1.49969	1.60799	1.32336	AVRG	1.48620	7.15929		
106 bis(2-Chloroisopropyl)ether	0.83007 0.64789	0.63325 ++++	0.75441	0.70073	0.68867	0.64153	AVRG	0.69951	10.20844		
107 1,2-Dibromo-3-chloropropane	584 176713	2275 ++++	5481	11354	29844	73362	LINE	0.02102	0.19109	0.99838	
108 1,2,4-Trichlorobenzene	1.00820 0.86464	0.98539 ++++	0.92239	0.88204	1.01161	0.84337	AVRG	0.93109	7.59068		
109 Hexachlorobutadiene	0.50497 0.45720	0.57866 ++++	0.51670	0.47693	0.53727	0.42764	AVRG	0.49991	10.16033		

GEL Laboratories LLC
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 Cal Date : 25-Feb-2010 07:37 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	200									
	Level 7	Level 8									
110 Naphthalene	2.39039	2.32801	2.24690	2.18867	2.66812	2.25278					
	2.29053	++++					AVRG		2.33792		6.80664
111 1,2,3-Trichlorobenzene	0.99358	0.85784	0.84533	0.78975	0.93501	0.79611					
	0.80769	++++					AVRG		0.86076		8.92879
46 1,2-Dichloroethane-d4	0.42538	0.44520	0.42789	0.43782	0.42368	0.42998					
	0.43397	++++					AVRG		0.43199		1.75777
64 Toluene-d8	1.62293	1.66865	1.68737	1.64500	1.61861	1.59016					
	1.55870	++++					AVRG		1.62735		2.72640
86 Bromofluorobenzene	1.29606	1.36624	1.35275	1.32744	1.29510	1.29803					
	1.27105	++++					AVRG		1.31523		2.62999

GEL Laboratories LLC

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Cal Date : 25-Feb-2010 07:37 ale01592

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

GEL Laboratories LLC
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 02:27
Lab File ID: 7z328.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-22 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 Xylenes (total)	0.64551	0.62451	0.62451	0.050	-3.25377	30.00000	Averaged
M 3 1,2-Dichloroethylene (total)	0.49511	0.45815	0.45815	0.050	-7.46472	30.00000	Averaged
M 1 1,3-Dichloropropylene	0.45215	0.46016	0.46016	0.050	1.77148	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.13873	0.13873	0.050	-10.89039	30.00000	Averaged
5 Chloromethane	0.46771	0.40064	0.40064	0.100	-14.34049	30.00000	Averaged spcc
6 Vinyl chloride	0.41543	0.34912	0.34912	0.050	-15.96116	20.00000	Averaged ccc
7 Bromomethane	0.23685	0.22892	0.22892	0.050	-3.35016	30.00000	Averaged
8 Chloroethane	0.21246	0.20582	0.20582	0.010	-3.12447	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.29248	0.29248	0.050	-8.02212	30.00000	Averaged
10 Ethyl Ether	0.29582	0.29735	0.29735	0.001	0.51656	30.00000	Averaged
13 Acetone	0.33491	0.29721	0.29721	0.050	-11.25680	40.00000	Averaged
17 Acetonitrile	0.05935	0.07072	0.07072	0.010	19.15195	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.19489	0.19489	0.050	-10.37135	20.00000	Averaged ccc
18 Methyl acetate	0.30971	0.30162	0.30162	0.010	-2.61040	40.00000	Averaged
16 Iodomethane	0.37891	0.36309	0.36309	0.050	-4.17398	30.00000	Averaged
22 Methylene chloride	0.20428	0.19326	0.19326	0.050	-5.39206	30.00000	Averaged
19 Carbon disulfide	0.76494	0.70918	0.70918	0.050	-7.28904	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.77741	0.77741	0.050	0.51971	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.42331	0.42331	0.050	-7.91447	30.00000	Averaged
26 Vinyl acetate	0.75971	0.65453	0.65453	0.010	-13.84562	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.58345	0.58345	0.100	-2.46329	30.00000	Averaged spcc
31 2-Butanone	0.37353	0.32999	0.32999	0.030	-11.65784	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.49299	0.49299	0.050	-7.07501	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.22525	0.22525	0.050	-9.35079	30.00000	Averaged
38 Chloroform	0.49798	0.47145	0.47145	0.010	-5.32731	20.00000	Averaged ccc
37 Bromochloromethane	0.39220	0.37710	0.37710	0.010	-3.84914	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.33281	0.33281	0.010	-2.61185	30.00000	Averaged
43 Cyclohexane	0.55549	0.48819	0.48819	0.010	-12.11548	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.33377	0.33377	0.010	-6.71432	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01560	0.01560	0.001	20.00901	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.26041	0.26041	0.010	-4.22921	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.41602	0.41602	0.010	-3.69539	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.47654	0.47654	0.010	-3.00919	30.00000	Averaged
48 Benzene	1.09329	1.01770	1.01770	0.010	-6.91346	30.00000	Averaged
50 Cyclohexene	0.51508	0.47503	0.47503	0.010	-7.77517	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 02:27
Lab File ID: 7z328.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-22 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.26489	0.25884	0.25884	0.010	-2.28485	30.00000	Averaged
56 1,2-Dichloropropane	0.36406	0.34276	0.34276	0.010	-5.85033	20.00000	Averaged ccc
55 Methylcyclohexane	0.44055	0.40776	0.40776	0.010	-7.44328	30.00000	Averaged
59 Bromodichloromethane	0.39044	0.39204	0.39204	0.010	0.40888	30.00000	Averaged
58 Dibromomethane	0.19638	0.19614	0.19614	0.010	-0.12043	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.14176	0.13312	0.13312	0.010	-6.08895	30.00000	Averaged
63 4-Methyl-2-pentanone	0.24607	0.23847	0.23847	0.010	-3.08660	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.47551	0.47478	0.47478	0.010	-0.15161	30.00000	Averaged
\$ 64 Toluene-d8	1.62735	1.59462	1.59462	0.010	-2.01081	30.00000	Averaged
65 Toluene	0.90021	0.86882	0.86882	0.010	-3.48730	20.00000	Averaged ccc
67 trans-1,3-Dichloropropylene	0.61004	0.62998	0.62998	0.010	3.26982	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33917	0.33086	0.33086	0.010	-2.45158	30.00000	Averaged
69 2-Hexanone	0.68092	0.56308	0.56308	0.010	-17.30573	40.00000	Averaged
70 1,3-Dichloropropane	0.69553	0.70217	0.70217	0.010	0.95395	30.00000	Averaged
71 Tetrachloroethylene	0.24878	0.23181	0.23181	0.010	-6.82091	30.00000	Averaged
72 Dibromochloromethane	0.36583	0.38883	0.38883	0.010	6.28730	30.00000	Averaged
73 1,2-Dibromoethane	0.36785	0.38653	0.38653	0.010	5.07802	30.00000	Averaged
76 Chlorobenzene	0.92664	0.90044	0.90044	0.300	-2.82685	30.00000	Averaged spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.33458	0.33458	0.010	4.77841	30.00000	Averaged
78 Ethylbenzene	1.68200	1.51733	1.51733	0.010	-9.78969	20.00000	Averaged ccc
79 m,p-Xylenes	0.63299	0.60842	0.60842	0.010	-3.88083	30.00000	Averaged
80 o-Xylene	0.67056	0.65668	0.65668	0.010	-2.06991	30.00000	Averaged
81 Styrene	1.07382	1.07422	1.07422	0.010	0.03737	30.00000	Averaged
82 Bromoform	0.47906	0.50547	0.50547	0.100	5.51185	30.00000	Averaged spcc
83 Isopropylbenzene	3.23464	2.86304	2.86304	0.010	-11.48816	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.13151	1.04885	1.04885	0.300	-7.30521	30.00000	Averaged spcc
\$ 86 Bromofluorobenzene	1.31523	1.28244	1.28244	0.010	-2.49352	30.00000	Averaged
89 1,2,3-Trichloropropane	0.24620	0.24376	0.24376	0.010	-0.99197	30.00000	Averaged
90 Bromobenzene	0.75737	0.73368	0.73368	0.010	-3.12821	30.00000	Averaged
91 n-Propylbenzene	4.11235	3.55350	3.55350	0.010	-13.58941	30.00000	Averaged
93 2-Chlorotoluene	2.81550	2.61345	2.61345	0.010	-7.17611	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.67285	2.53769	2.53769	0.010	-5.05667	30.00000	Averaged
94 4-Chlorotoluene	2.52732	2.34633	2.34633	0.010	-7.16112	30.00000	Averaged
95 tert-Butylbenzene	2.42130	2.26973	2.26973	0.010	-6.25993	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.70506	2.55659	2.55659	0.010	-5.48856	30.00000	Averaged
98 sec-Butylbenzene	3.56563	3.18076	3.18076	0.010	-10.79408	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 02:27
Lab File ID: 7z328.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-22 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.57723	2.40283	2.40283	0.010	-6.76672	30.00000	Averaged
100 1,3-Dichlorobenzene	1.47958	1.37420	1.37420	0.010	-7.12232	30.00000	Averaged
102 1,4-Dichlorobenzene	1.44472	1.35364	1.35364	0.010	-6.30431	30.00000	Averaged
104 n-Butylbenzene	2.98564	2.67527	2.67527	0.010	-10.39534	30.00000	Averaged
105 1,2-Dichlorobenzene	1.48620	1.41959	1.41959	0.010	-4.48214	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	53.98003	50.00000	0.20228	0.010	7.96006	30.00000	Linear
108 1,2,4-Trichlorobenzene	0.93109	0.87331	0.87331	0.010	-6.20563	30.00000	Averaged
109 Hexachlorobutadiene	0.49991	0.45648	0.45648	0.010	-8.68867	30.00000	Averaged
110 Naphthalene	2.33792	2.47041	2.47041	0.010	5.66713	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.87276	0.87276	0.010	1.39435	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.69699
Maximum Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021710v7/7z328.d

Lab Smp Id: W7VM100217-22

Client Smp ID: ICV

Inj Date : 18-FEB-2010 02:27

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100217-22|ICV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100126-01E/IVM100214-01

Comment :

Method : /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

Meth Date : 18-Feb-2010 06:55 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 21

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubL+.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

		QUANT SIG				AMOUNTS	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)
							ON-COL (ug/l)
M 2 Xylenes (total)		106				1553189	150.000
M 3 1,2-Dichloroethylene (total)		96				1074106	100.000
M 1 1,3-Dichloropropylene		75				1078824	100.000
4 Dichlorodifluoromethane		85	5.147	5.147	(0.336)	162626	50.0000
5 Chloromethane		50	5.757	5.757	(0.376)	469635	50.0000
6 Vinyl chloride		62	6.187	6.187	(0.404)	409246	50.0000
7 Bromomethane		94	7.418	7.418	(0.484)	268342	50.0000
8 Chloroethane		64	7.845	7.845	(0.512)	241269	50.0000
9 Trichlorofluoromethane		101	8.789	8.789	(0.574)	342848	50.0000
10 Ethyl Ether		59	9.703	9.692	(0.633)	348559	50.0000
13 Acetone		43	10.413	10.413	(0.680)	1741994	250.000
17 Acetonitrile		41	11.073	11.073	(0.723)	1657956	1000.00
14 1,1-Dichloroethylene		96	10.312	10.312	(0.673)	228453	50.0000
18 Methyl acetate		43	11.215	11.215	(0.732)	1767842	250.000
16 Iodomethane		142	10.667	10.667	(0.696)	2128132	250.000
22 Methylene chloride		86	11.439	11.439	(0.747)	226549	50.0000

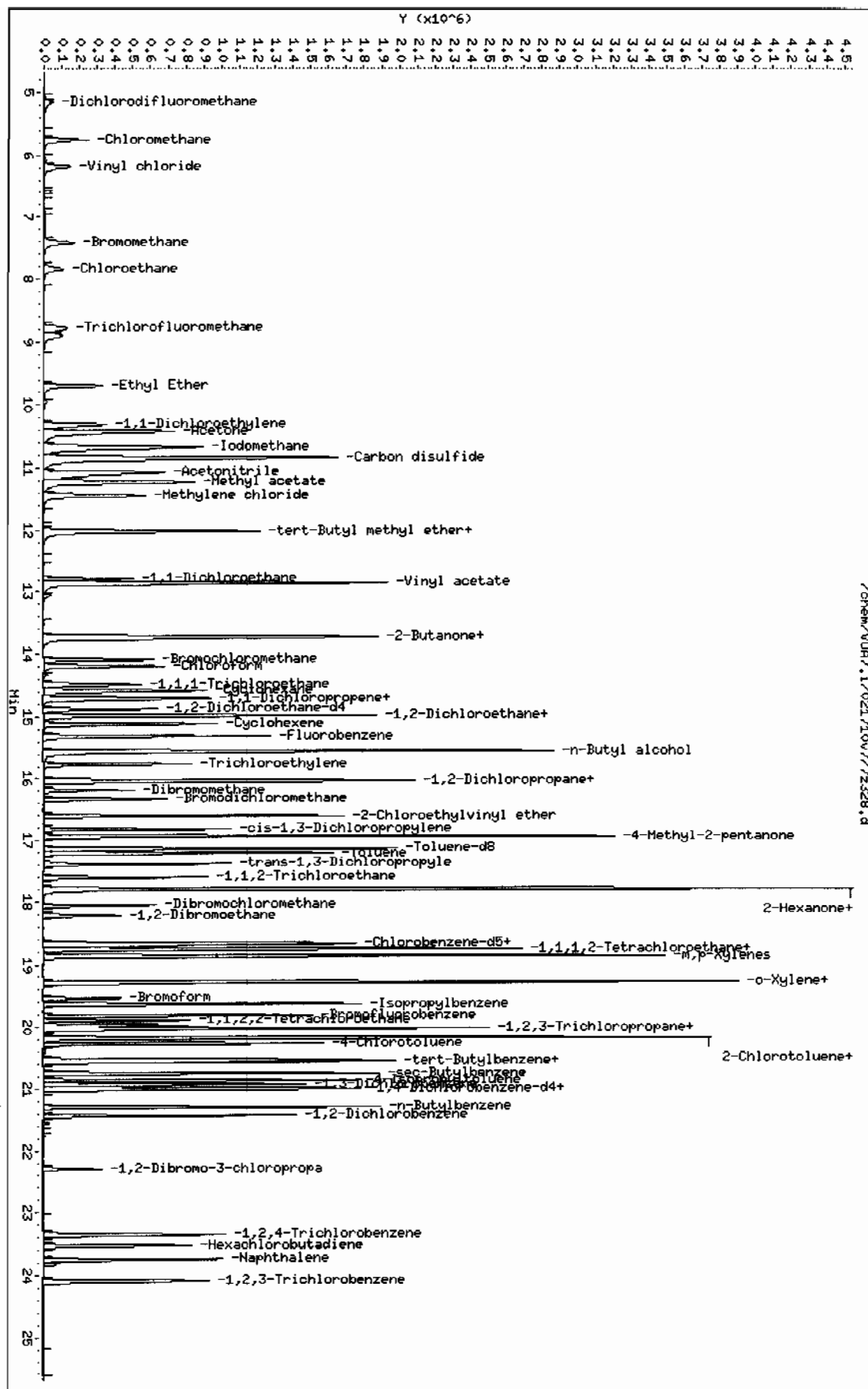
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
19 Carbon disulfide	76	10.840	10.840	(0.708)	4156596	250.000	232
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	911300	50.0000	50.2
25 trans-1,2-Dichloroethylene	61	12.027	12.017	(0.785)	496217	50.0000	46.0
26 Vinyl acetate	43	12.860	12.860	(0.840)	3836252	250.000	215
28 1,1-Dichloroethane	63	12.799	12.789	(0.836)	683938	50.0000	48.8
31 2-Butanone	43	13.723	13.723	(0.896)	1934081	250.000	221
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	577889	50.0000	46.5
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	264039	50.0000	45.3
38 Chloroform	83	14.190	14.190	(0.926)	552641	50.0000	47.3
37 Bromochloromethane	49	14.088	14.088	(0.920)	442048	50.0000	48.1
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	390122	50.0000	48.7
43 Cyclohexane	56	14.586	14.586	(0.952)	572266	50.0000	43.9
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	391255	50.0000	46.6
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1829150	5000.00	6000
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	305263	50.0000	47.9
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	487674	50.0000	48.2
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	558613	50.0000	48.5
48 Benzene	78	14.982	14.982	(0.978)	1192975	50.0000	46.5
50 Cyclohexene	67	15.114	15.114	(0.987)	556844	50.0000	46.1
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1172223	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	303421	50.0000	48.8
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	401792	50.0000	47.1
55 Methylcyclohexane	83	16.027	16.027	(1.046)	477986	50.0000	46.3
59 Bromodichloromethane	83	16.332	16.332	(1.066)	459560	50.0000	50.2
58 Dibromomethane	93	16.179	16.179	(1.056)	229919	50.0000	49.9
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	780259	250.000	235
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	988490	250.000	242
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	556553	50.0000	49.9
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1321978	50.0000	49.0
65 Toluene	92	17.215	17.215	(0.922)	720271	50.0000	48.2
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	522271	50.0000	51.6
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	274288	50.0000	48.8
69 2-Hexanone	43	17.804	17.794	(0.954)	2334037	250.000	207
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	582114	50.0000	50.5
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	192175	50.0000	46.6
72 Dibromochloromethane	129	18.058	18.058	(0.967)	322348	50.0000	53.1
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	320442	50.0000	52.5
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	829022	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	746485	50.0000	48.6
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	277371	50.0000	52.4
78 Ethylbenzene	91	18.768	18.758	(1.005)	1257903	50.0000	45.1
79 m,p-Xylenes	106	18.870	18.870	(1.011)	1008788	100.000	96.1
80 o-Xylene	106	19.286	19.286	(1.033)	544401	50.0000	49.0
81 Styrene	104	19.286	19.286	(1.033)	890551	50.0000	50.0
82 Bromoform	173	19.540	19.540	(0.931)	209984	50.0000	52.8
83 Isopropylbenzene	105	19.631	19.631	(0.935)	1189382	50.0000	44.2
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	435719	50.0000	46.3

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	532758	50.0000	48.8
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	101263	50.0000	49.5
90 Bromobenzene	156	20.017	20.017	(0.954)	304789	50.0000	48.4
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1476217	50.0000	43.2
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	1085697	50.0000	46.4
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	1054223	50.0000	47.5
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	974728	50.0000	46.4
95 tert-Butylbenzene	119	20.535	20.524	(0.978)	942904	50.0000	46.9
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	1062075	50.0000	47.2
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1321369	50.0000	44.6
99 4-Isopropyltoluene	119	20.859	20.859	(0.994)	998200	50.0000	46.6
100 1,3-Dichlorobenzene	146	20.931	20.930	(0.997)	570879	50.0000	46.4
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	415426	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	562339	50.0000	46.8
104 n-Butylbenzene	91	21.296	21.296	(1.014)	1111378	50.0000	44.8
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	589734	50.0000	47.8
107 1,2-Dibromo-3-chloropropane	157	22.301	22.291	(1.062)	84034	50.0000	54.0
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	362796	50.0000	46.9
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	189632	50.0000	45.6
110 Naphthalene	128	23.743	23.743	(1.131)	1026272	50.0000	52.8
111 1,2,3-Trichlorobenzene	180	24.098	24.098	(1.148)	362567	50.0000	50.7

Data File: /chem/V007.1/021710v7/72328.d
 Date : 18-FEB-2010 02:27
 Client ID: ICV
 Sample Info: 147V00217-22.1CV1.1.V007.1.1
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V007.1
 Operator: RND1
 Column diameter: 0.25

/chem/V007.1/021710v7/72328.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 03:03
 Lab File ID: 7z329.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 16:02 00:42
 Lab Sample ID: W7VM100217-23 Quant Type: ISTD
 Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.10627	0.08440	0.08440	0.010	-20.57911	30.00000	Averaged
148 2-Chloro-1,1,1-trifluoroeth	0.21104	0.19071	0.19071	0.010	-9.63206	30.00000	Averaged
11 Acrolein	0.04808	0.06342	0.06342	0.001	31.90544	30.00000	Averaged
12 Trichlorotrifluoroethane	0.08737	0.09264	0.09264	0.010	6.03207	30.00000	Averaged
15 Isopropyl Alcohol	0.03252	0.03340	0.03340	0.010	2.69600	40.00000	Averaged
20 Allyl chloride	0.47439	0.45060	0.45060	0.010	-5.01522	30.00000	Averaged
21 tert-Butyl Alcohol	0.04700	0.04729	0.04729	0.001	0.60763	40.00000	Averaged
23 Acrylonitrile	0.13462	0.13550	0.13550	0.010	0.65548	30.00000	Averaged
27 Isopropyl ether	1.27617	1.16451	1.16451	0.010	-8.74982	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.40855	0.40855	0.010	0.12766	30.00000	Averaged
30 Ethyl tert-butyl ether	0.87171	0.84896	0.84896	0.010	-2.60957	30.00000	Averaged
35 Propionitrile	0.05907	0.05400	0.05400	0.010	-8.58473	30.00000	Averaged
32 Ethyl acetate	0.40471	0.34558	0.34558	0.010	-14.60985	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.22257	0.22257	0.010	-9.26511	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.38326	0.38326	0.010	-8.56559	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01700	0.01700	0.005	-5.09066	40.00000	Averaged
49 Methyl tert-amyl ether	0.66978	0.66370	0.66370	0.010	-0.90825	30.00000	Averaged
54 Methyl methacrylate	0.21684	0.20990	0.20990	0.010	-3.19904	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.56268	0.56268	0.010	-1.69472	30.00000	Averaged
74 1-Chlorohexane	0.31936	0.29112	0.29112	0.010	-8.83992	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00349	0.00349	0.001	7.06816	40.00000	Averaged
60 2-Nitropropane	0.14035	0.14903	0.14903	0.010	6.18586	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.41782	0.41782	0.010	7.40931	30.00000	Averaged
85 Cyclohexanone	0.02826	0.03489	0.03489	0.010	23.43653	40.00000	Averaged
88 trans-1,4-Dichloro-2-butene	0.35107	0.38019	0.38019	0.010	8.29533	30.00000	Averaged
97 Pentachloroethane	0.28176	0.23364	0.23364	0.010	-17.07604	30.00000	Averaged
103 Benzyl chloride	1.23904	1.13837	1.13837	0.010	-8.12535	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.69951	0.66981	0.66981	0.010	-4.24580	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.43199	0.41798	0.41798	0.010	-3.24324	30.00000	Averaged
64 Toluene-d8	1.62735	1.64351	1.64351	0.010	0.99350	30.00000	Averaged
86 Bromofluorobenzene	1.31523	1.27368	1.27368	0.010	-3.15966	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 03:03
Lab File ID: 7z329.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-23 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

Average %D / Drift Results.	

Calculated Average %D/Drift *	7.69699
Maximum Average %D/Drift	= 20.00000
* Passed Average %D/Drift Test.	

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021710v7/7z329.d

Lab Smp Id: W7VM100217-23

Client Smp ID: SICV

Inj Date : 18-FEB-2010 03:03

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100217-23|SICV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM091216-08B/UVM100125-08C

Comment :

Method : /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

Meth Date : 18-Feb-2010 06:55 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 22

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubS+SS.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

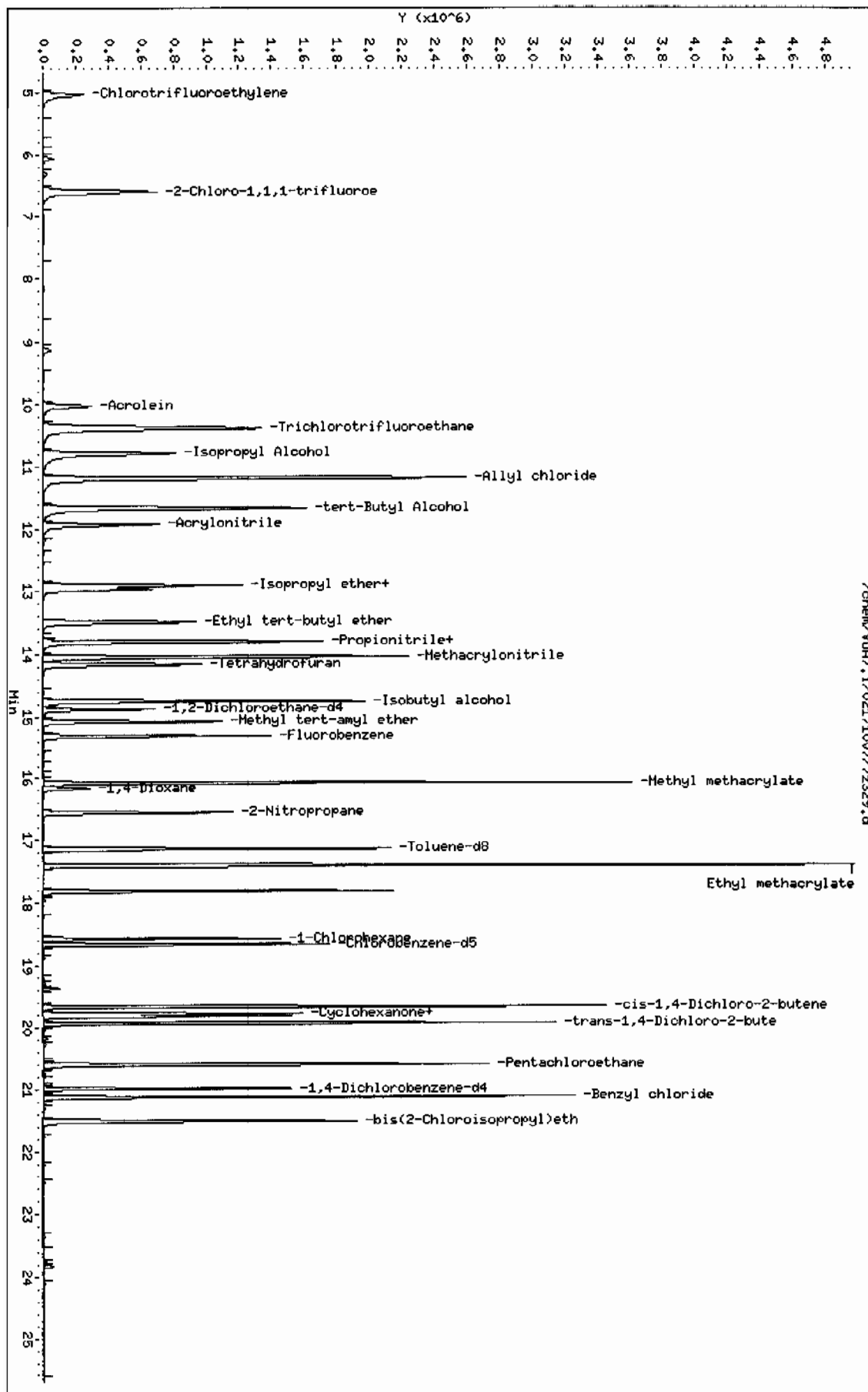
Compounds	QUANT SIG	AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	=====	=====	=====	=====	=====	=====	=====
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	321831	150.000	119
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	727177	150.000	136
11 Acrolein	56	10.017	10.017	(0.654)	403023	250.000	330
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	588697	250.000	265
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	2122372	2500.00	2570
20 Allyl chloride	41	11.185	11.185	(0.730)	2863564	250.000	237
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	3005064	2500.00	2520
23 Acrylonitrile	53	11.926	11.926	(0.779)	861102	250.000	252
27 Isopropyl ether	45	12.901	12.901	(0.842)	1480087	50.0000	45.6
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	519270	50.0000	50.1
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	1079030	50.0000	48.7
35 Propionitrile	54	13.804	13.804	(0.901)	343144	250.000	228
32 Ethyl acetate	43	13.804	13.804	(0.901)	2196159	250.000	213
36 Methacrylonitrile	41	14.038	14.038	(0.916)	1414418	250.000	227
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	797978	250.000	228
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	1080518	2500.00	2370

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	====	==	=====	=====	=====	=====	=====
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	843562	50.0000	49.5
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1333906	250.000	242
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	2383055	250.000	246
74 1-Chlorohexane	55	18.575	18.575	(1.213)	370019	50.0000	45.6
57 1,4-Dioxane	88	16.159	16.159	(1.055)	221750	2500.00	2680
60 2-Nitropropane	43	16.555	16.555	(1.081)	947088	250.000	265
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	869937	250.000	268
85 Cyclohexanone	55	19.773	19.773	(1.059)	738736	1250.00	1540
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	791580	250.000	271
97 Pentachloroethane	167	20.596	20.596	(0.981)	486462	250.000	207
103 Benzyl chloride	91	21.124	21.124	(1.006)	2370168	250.000	230
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1394590	250.000	239
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1270997	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	847043	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	416415	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	531249	50.0000	48.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1392127	50.0000	50.5
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	530378	50.0000	48.4

Data File: /chem/V007.i/021710v7/72329.d
 Date : 18-FEB-2010 03:03
 Client ID: SICV
 Sample Info: 147VH100217-231SICV11V007.11
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V007.i
 Operator: AK01
 Column diameter: 0.25

/chem/V007.i/021710v7/72329.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 23-FEB-2010 19:23
Lab File ID: 7a218.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100223-01 Quant Type: ISTD
Method: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Xylenes (total)	0.64551	0.55969	0.55969	0.050	-13.29560	30.00000	Averaged
3 1,2-Dichloroethylene (total)	0.49511	0.42321	0.42321	0.050	-14.52245	30.00000	Averaged
1 1,3-Dichloropropylene	0.45215	0.42239	0.42239	0.050	-6.58201	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.13388	0.13388	0.050	-14.01027	30.00000	Averaged
5 Chloromethane	0.46771	0.40931	0.40931	0.100	-12.48697	30.00000	Averaged spcc
6 Vinyl chloride	0.41543	0.37858	0.37858	0.050	-8.86853	20.00000	Averaged ccc
7 Bromomethane	0.23685	0.22206	0.22206	0.050	-6.24522	30.00000	Averaged
8 Chloroethane	0.21246	0.20086	0.20086	0.010	-5.45949	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.29598	0.29598	0.050	-6.91960	30.00000	Averaged
10 Ethyl Ether	0.29582	0.28563	0.28563	0.001	-3.44449	30.00000	Averaged
13 Acetone	0.33491	0.30110	0.30110	0.050	-10.09651	40.00000	Averaged
17 Acetonitrile	0.05935	0.06369	0.06369	0.010	7.31739	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.18149	0.18149	0.050	-16.53232	20.00000	Averaged ccc
18 Methyl acetate	0.30971	0.29717	0.29717	0.010	-4.04781	40.00000	Averaged
16 Iodomethane	0.37891	0.33427	0.33427	0.050	-11.78175	30.00000	Averaged
22 Methylene chloride	0.20428	0.16925	0.16925	0.050	-17.14620	30.00000	Averaged
19 Carbon disulfide	0.76494	0.62615	0.62615	0.050	-18.14368	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.69372	0.69372	0.050	-10.30110	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.39314	0.39314	0.050	-14.47721	30.00000	Averaged
26 Vinyl acetate	0.75971	0.66441	0.66441	0.010	-12.54517	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.51421	0.51421	0.100	-14.03834	30.00000	Averaged spcc
31 2-Butanone	0.37353	0.34155	0.34155	0.030	-8.56050	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.45327	0.45327	0.050	-14.56165	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.21246	0.21246	0.050	-14.49624	30.00000	Averaged
38 Chloroform	0.49798	0.42064	0.42064	0.010	-15.53044	20.00000	Averaged ccc
37 Bromochloromethane	0.39220	0.34383	0.34383	0.010	-12.33186	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.29190	0.29190	0.010	-14.58060	30.00000	Averaged
43 Cyclohexane	0.55549	0.46166	0.46166	0.010	-16.89139	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.30795	0.30795	0.010	-13.93007	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01382	0.01382	0.001	6.31981	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.23351	0.23351	0.010	-14.12489	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.43199	0.41980	0.41980	0.010	-2.82138	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.41912	0.41912	0.010	-14.69652	30.00000	Averaged
48 Benzene	1.09329	0.93001	0.93001	0.010	-14.93423	30.00000	Averaged
50 Cyclohexene	0.51508	0.45322	0.45322	0.010	-12.00970	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 23-FEB-2010 19:23
Lab File ID: 7a218.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100223-01 Quant Type: ISTD
Method: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.26489	0.23547	0.23547	0.010	-11.10765	30.00000	Averaged
56 1,2-Dichloropropane	0.36406	0.31684	0.31684	0.010	-12.96909	20.00000	Averaged ccc
55 Methylcyclohexane	0.44055	0.39448	0.39448	0.010	-10.45849	30.00000	Averaged
59 Bromodichloromethane	0.39044	0.33995	0.33995	0.010	-12.93374	30.00000	Averaged
58 Dibromomethane	0.19638	0.17714	0.17714	0.010	-9.79428	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.14176	0.15804	0.15804	0.010	11.48960	30.00000	Averaged
63 4-Methyl-2-pentanone	0.24607	0.21453	0.21453	0.010	-12.81451	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.47551	0.43716	0.43716	0.010	-8.06368	30.00000	Averaged
64 Toluene-d8	1.62735	1.57520	1.57520	0.010	-3.20424	30.00000	Averaged
65 Toluene	0.90021	0.75799	0.75799	0.010	-15.79832	20.00000	Averaged ccc
67 trans-1,3-Dichloropropylene	0.61004	0.53925	0.53925	0.010	-11.60450	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33917	0.28725	0.28725	0.010	-15.30919	30.00000	Averaged
69 2-Hexanone	0.68092	0.56109	0.56109	0.010	-17.59776	40.00000	Averaged
70 1,3-Dichloropropane	0.69553	0.61021	0.61021	0.010	-12.26715	30.00000	Averaged
71 Tetrachloroethylene	0.24878	0.21133	0.21133	0.010	-15.05448	30.00000	Averaged
72 Dibromochloromethane	0.36583	0.32475	0.32475	0.010	-11.22907	30.00000	Averaged
73 1,2-Dibromoethane	0.36785	0.31813	0.31813	0.010	-13.51618	30.00000	Averaged
76 Chlorobenzene	0.92664	0.77311	0.77311	0.300	-16.56770	30.00000	Averaged spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.28580	0.28580	0.010	-10.49753	30.00000	Averaged
78 Ethylbenzene	1.68200	1.35540	1.35540	0.010	-19.41702	20.00000	Averaged ccc
79 m,p-Xylenes	0.63299	0.54489	0.54489	0.010	-13.91771	30.00000	Averaged
80 o-Xylene	0.67056	0.58928	0.58928	0.010	-12.12109	30.00000	Averaged
81 Styrene	1.07382	0.94981	0.94981	0.010	-11.54823	30.00000	Averaged
82 Bromoform	0.47906	0.44283	0.44283	0.100	-7.56214	30.00000	Averaged spcc
83 Isopropylbenzene	3.23464	2.59029	2.59029	0.010	-19.92025	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.13151	0.93651	0.93651	0.300	-17.23342	30.00000	Averaged spcc
86 Bromofluorobenzene	1.31523	1.27471	1.27471	0.010	-3.08077	30.00000	Averaged
89 1,2,3-Trichloropropane	0.24620	0.20151	0.20151	0.010	-18.15085	30.00000	Averaged
90 Bromobenzene	0.75737	0.64458	0.64458	0.010	-14.89206	30.00000	Averaged
91 n-Propylbenzene	4.11235	3.26904	3.26904	0.010	-20.50661	30.00000	Averaged
93 2-Chlorotoluene	2.81550	2.29504	2.29504	0.010	-18.48541	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.67285	2.28249	2.28249	0.010	-14.60478	30.00000	Averaged
94 4-Chlorotoluene	2.52732	2.02558	2.02558	0.010	-19.85251	30.00000	Averaged
95 tert-Butylbenzene	2.42130	2.04445	2.04445	0.010	-15.56412	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.70506	2.26665	2.26665	0.010	-16.20702	30.00000	Averaged
98 sec-Butylbenzene	3.56563	2.94334	2.94334	0.010	-17.45264	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 23-FEB-2010 19:23
Lab File ID: 7a218.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100223-01 Quant Type: ISTD
Method: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.57723	2.22400	2.22400	0.010	-13.70564	30.00000	Averaged
100 1,3-Dichlorobenzene	1.47958	1.22204	1.22204	0.010	-17.40664	30.00000	Averaged
102 1,4-Dichlorobenzene	1.44472	1.20551	1.20551	0.010	-16.55787	30.00000	Averaged
104 n-Butylbenzene	2.98564	2.48981	2.48981	0.010	-16.60709	30.00000	Averaged
105 1,2-Dichlorobenzene	1.48620	1.23736	1.23736	0.010	-16.74319	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	45.10260	50.00000	0.16836	0.010	-9.79480	30.00000	Linear
108 1,2,4-Trichlorobenzene	0.93109	0.80035	0.80035	0.010	-14.04151	30.00000	Averaged
109 Hexachlorobutadiene	0.49991	0.40449	0.40449	0.010	-19.08818	30.00000	Averaged
110 Naphthalene	2.33792	2.01239	2.01239	0.010	-13.92378	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.73727	0.73727	0.010	-14.34669	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 12.95136

Maximum Average %D/Drift = 20.00000

* Passed Average %D/Drift Test.

Data File: /chem/VOA7.i/022310v7/7a218.d
 Report Date: 08-Mar-2010 13:19

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a218.d

Lab Smp Id: W7VM100223-01

Client Smp ID: VSTD050

Inj Date : 23-FEB-2010 19:23

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100223-01|BFB/CCV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100106-07C/UVM100202-07D

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 18

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubL+.sub

Target Version: 3.50

Processing Host: prdsvr07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

		QUANT SIG				AMOUNTS	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)
							ON-COL (ug/l)
M 2 Xylenes (total)		106				1209678	150.000
M 3 1,2-Dichloroethylene (total)		96				806709	100.000
M 1 1,3-Dichloropropylene		75				805156	100.000
4 Dichlorodifluoromethane		85	5.148	5.148	(0.336)	127596	50.0000
5 Chloromethane		50	5.757	5.757	(0.376)	390106	50.0000
6 Vinyl chloride		62	6.188	6.188	(0.404)	360826	50.0000
7 Bromomethane		94	7.419	7.419	(0.484)	211644	50.0000
8 Chloroethane		64	7.845	7.845	(0.512)	191439	50.0000
9 Trichlorofluoromethane		101	8.799	8.799	(0.574)	282099	50.0000
10 Ethyl Ether		59	9.693	9.693	(0.633)	272233	50.0000
13 Acetone		43	10.413	10.413	(0.680)	1434872	250.000
17 Acetonitrile		41	11.073	11.073	(0.723)	1214135	1000.00
14 1,1-Dichloroethylene		96	10.312	10.312	(0.673)	172979	50.0000
18 Methyl acetate		43	11.215	11.215	(0.732)	1416155	250.000
16 Iodomethane		142	10.667	10.667	(0.696)	1592937	250.000

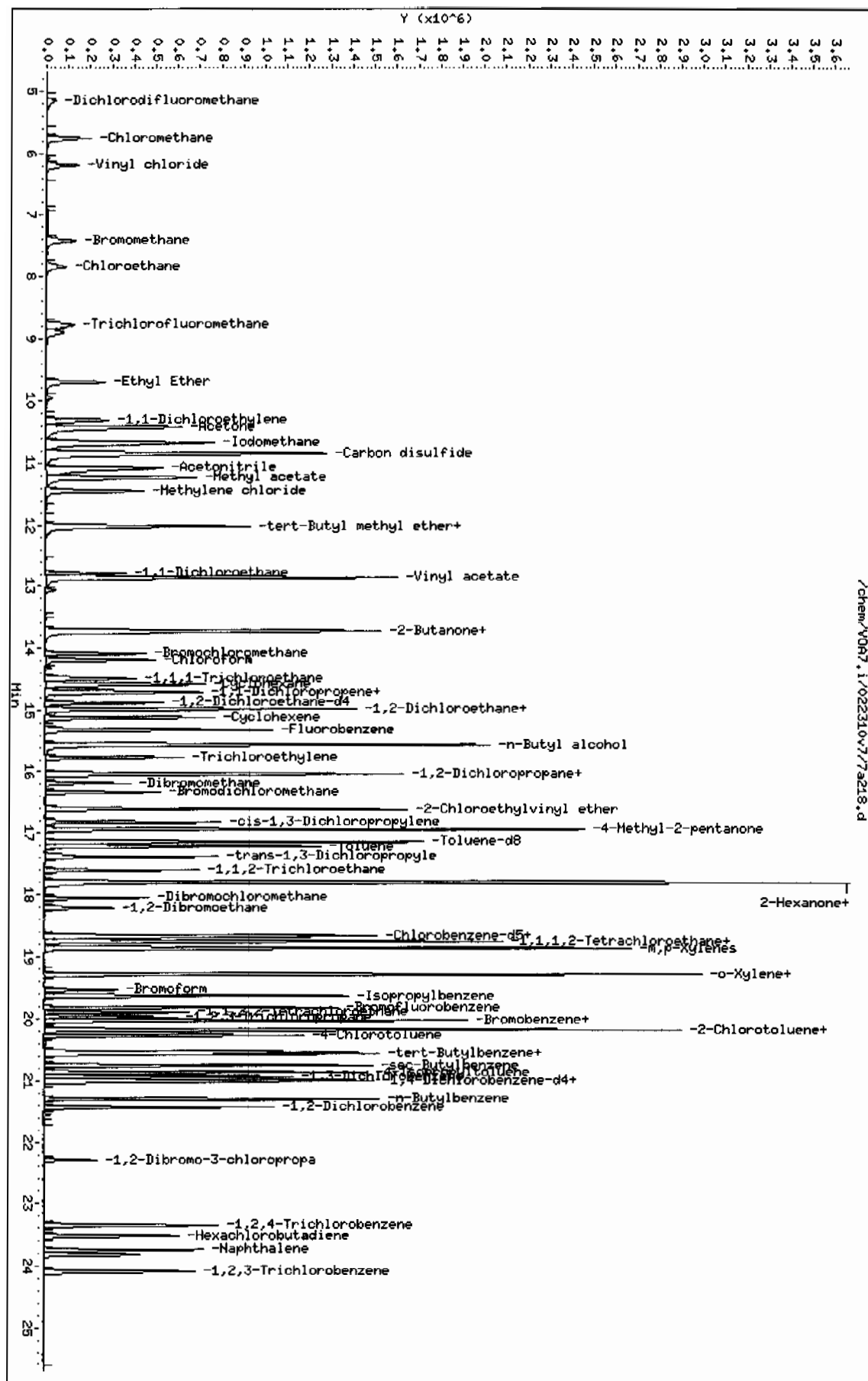
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	====	==	=====	=====	=====	=====	=====
22 Methylene chloride	86	11.439	11.439	(0.747)	161314	50.0000	41.4
19 Carbon disulfide	76	10.840	10.840	(0.708)	2983898	250.000	205
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	661184	50.0000	44.8
25 trans-1,2-Dichloroethylene	61	12.017	12.017	(0.785)	374703	50.0000	42.8
26 Vinyl acetate	43	12.860	12.860	(0.840)	3166202	250.000	219
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	490093	50.0000	43.0
31 2-Butanone	43	13.723	13.723	(0.896)	1627667	250.000	228
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	432006	50.0000	42.7
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	202495	50.0000	42.8
38 Chloroform	83	14.190	14.190	(0.926)	400907	50.0000	42.2
37 Bromochloromethane	49	14.088	14.088	(0.920)	327705	50.0000	43.8
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	278212	50.0000	42.7
43 Cyclohexane	56	14.586	14.586	(0.952)	440004	50.0000	41.6
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	293509	50.0000	43.0
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1317573	5000.00	5320
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	222553	50.0000	42.9
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	400109	50.0000	48.6
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	399459	50.0000	42.6
48 Benzene	78	14.982	14.982	(0.978)	886389	50.0000	42.5
50 Cyclohexene	67	15.114	15.114	(0.987)	431962	50.0000	44.0
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	953093	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	224426	50.0000	44.4
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	301982	50.0000	43.5
55 Methylcyclohexane	83	16.027	16.027	(1.046)	375973	50.0000	44.8
59 Bromodichloromethane	83	16.332	16.332	(1.066)	324000	50.0000	43.5
58 Dibromomethane	93	16.180	16.180	(1.056)	168833	50.0000	45.1
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	753150	250.000	279
63 4-Methyl-2-pentanone	58	16.931	16.931	(0.907)	772807	250.000	218
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	416656	50.0000	46.0
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1134856	50.0000	48.4
65 Toluene	92	17.215	17.215	(0.922)	546098	50.0000	42.1
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	388500	50.0000	44.2
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	206948	50.0000	42.3
69 2-Hexanone	43	17.794	17.794	(0.953)	2021202	250.000	206
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	439628	50.0000	43.9
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	152250	50.0000	42.5
72 Dibromochloromethane	129	18.058	18.058	(0.967)	233966	50.0000	44.4
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	229198	50.0000	43.2
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	720451	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	556990	50.0000	41.7
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	205903	50.0000	44.8
78 Ethylbenzene	91	18.758	18.758	(1.005)	976501	50.0000	40.3
79 m,p-Xylenes	106	18.870	18.870	(1.011)	785131	100.000	86.1
80 o-Xylene	106	19.286	19.286	(1.033)	424547	50.0000	43.9
81 Styrene	104	19.286	19.286	(1.033)	684292	50.0000	44.2
82 Bromoform	173	19.540	19.540	(0.931)	159446	50.0000	46.2
83 Isopropylbenzene	105	19.631	19.631	(0.935)	932656	50.0000	40.0

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	337198	50.0000	41.4
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	458971	50.0000	48.4
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	72556	50.0000	40.9
90 Bromobenzene	156	20.017	20.017	(0.954)	232087	50.0000	42.6
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1177045	50.0000	39.7
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	826348	50.0000	40.8
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	821827	50.0000	42.7
94 4-Chlorotoluene	91	20.261	20.261	(0.965)	729327	50.0000	40.1
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	736119	50.0000	42.2
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	816126	50.0000	41.9
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1059772	50.0000	41.3
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	800770	50.0000	43.1
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	440004	50.0000	41.3
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	360058	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	434053	50.0000	41.7
104 n-Butylbenzene	91	21.296	21.296	(1.014)	896477	50.0000	41.7
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	445523	50.0000	41.6
107 1,2-Dibromo-3-chloropropane	157	22.301	22.301	(1.062)	60618	50.0000	45.1
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	288173	50.0000	43.0
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	145639	50.0000	40.4
110 Naphthalene	128	23.743	23.743	(1.131)	724577	50.0000	43.0
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	265459	50.0000	42.8

Data File: /chem/V007.i/022310v7/7a218.d
 Date: 23-FEB-2010 19:23
 Client ID: VSTD050
 Sample Info: 147VH100223-01.BFB/CCV11.V00A11
 Purge Volume: 5.0
 Column phase: DB-624

/chem/V007.i/022310v7/7a218.d

Instrument: V007.i
 Operator: AX01
 Column diameter: 0.25



Data File: /chem/VOA7.i/022310v7/7a221.d
Report Date: 25-Feb-2010 07:26

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GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 23-FEB-2010 21:04
Lab File ID: 7a221.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100223-04 Quant Type: ISTD
Method: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.10627	0.09624	0.09624	0.010	-9.43988	30.00000	Averaged
148 2-Chloro-1,1,1-trifluoroeth	0.21104	0.21524	0.21524	0.010	1.99046	30.00000	Averaged
11 Acrolein	0.04808	0.05754	0.05754	0.001	19.67087	30.00000	Averaged
12 Trichlorotrifluoroethane	0.08737	0.09175	0.09175	0.010	5.01472	30.00000	Averaged
15 Isopropyl Alcohol	0.03252	0.03167	0.03167	0.010	-2.62691	40.00000	Averaged
20 Allyl chloride	0.47439	0.42392	0.42392	0.010	-10.63973	30.00000	Averaged
21 tert-Butyl Alcohol	0.04700	0.04519	0.04519	0.001	-3.84894	40.00000	Averaged
23 Acrylonitrile	0.13462	0.12332	0.12332	0.010	-8.39578	30.00000	Averaged
27 Isopropyl ether	1.27617	1.22441	1.22441	0.010	-4.05601	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.39791	0.39791	0.010	-2.48104	30.00000	Averaged
30 Ethyl tert-butyl ether	0.87171	0.92065	0.92065	0.010	5.61459	30.00000	Averaged
35 Propionitrile	0.05907	0.04852	0.04852	0.010	-17.85002	30.00000	Averaged
32 Ethyl acetate	0.40471	0.31045	0.31045	0.010	-23.29037	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.19852	0.19852	0.010	-19.06987	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.32362	0.32362	0.010	-22.79355	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01505	0.01505	0.005	-15.98974	40.00000	Averaged
49 Methyl tert-amyl ether	0.66978	0.71619	0.71619	0.010	6.92872	30.00000	Averaged
54 Methyl methacrylate	0.21684	0.19613	0.19613	0.010	-9.54923	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.50796	0.50796	0.010	-11.25340	30.00000	Averaged
74 1-Chlorohexane	0.31936	0.33141	0.33141	0.010	3.77381	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00296	0.00296	0.001	-9.16264	40.00000	Averaged
60 2-Nitropropane	0.14035	0.13017	0.13017	0.010	-7.25564	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.37752	0.37752	0.010	-2.95060	30.00000	Averaged
85 Cyclohexanone	0.02826	0.03001	0.03001	0.010	6.18128	40.00000	Averaged
88 trans-1,4-Dichloro-2-butene	0.35107	0.34560	0.34560	0.010	-1.55621	30.00000	Averaged
97 Pentachloroethane	0.28176	0.24369	0.24369	0.010	-13.50884	30.00000	Averaged
103 Benzyl chloride	1.23904	1.32086	1.32086	0.010	6.60323	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.69951	0.57344	0.57344	0.010	-18.02247	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.43199	0.41792	0.41792	0.010	-3.25700	30.00000	Averaged
64 Toluene-d8	1.62735	1.66365	1.66365	0.010	2.23104	30.00000	Averaged
86 Bromofluorobenzene	1.31523	1.27168	1.27168	0.010	-3.31152	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 23-FEB-2010 21:04
Lab File ID: 7a221.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100223-04 Quant Type: ISTD
Method: /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Average %D / Drift Results.	

Calculated Average %D/Drift =	12.95136
Maximum Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a221.d

Lab Smp Id: W7VM100223-04

Client Smp ID: VSTD250S

Inj Date : 23-FEB-2010 21:04

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100223-04|SHORT/SLCS|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM091216-08B/UVM100125-08D

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 25-Feb-2010 07:24 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 21

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubS+SS.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	316775	150.000	136
148 2-Chloro-1,1,1-trifluoroethane	118	6.603	6.603	(0.431)	708446	150.000	153
11 Acrolein	56	10.017	10.017	(0.654)	315629	250.000	299
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	503299	250.000	262
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1737114	2500.00	2430
20 Allyl chloride	41	11.185	11.185	(0.730)	2325513	250.000	223
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	2479125	2500.00	2400
23 Acrylonitrile	53	11.926	11.926	(0.779)	676478	250.000	229
27 Isopropyl ether	45	12.900	12.900	(0.842)	1343361	50.0000	48.0
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	436565	50.0000	48.8
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	1010096	50.0000	52.8
35 Propionitrile	54	13.804	13.804	(0.901)	266186	250.000	205
32 Ethyl acetate	43	13.804	13.804	(0.901)	1703050	250.000	192
36 Methacrylonitrile	41	14.037	14.037	(0.916)	1089018	250.000	202
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	612391	250.000	193
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	825613	2500.00	2100

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	=====	==	=====	=====	=====	=====	=====
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	785770	50.0000	53.5
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1075918	250.000	226
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1934146	250.000	222
74 1-Chlorohexane	55	18.575	18.575	(1.213)	363604	50.0000	51.9
57 1,4-Dioxane	88	16.159	16.159	(1.055)	162401	2500.00	2270
60 2-Nitropropane	43	16.555	16.555	(1.081)	714056	250.000	232
84 cis-1,4-Dichloro-2-butene	53	19.661	19.661	(0.937)	714386	250.000	243
85 Cyclohexanone	55	19.773	19.773	(1.059)	571312	1250.00	1330
88 trans-1,4-Dichloro-2-butene	53	19.925	19.925	(0.949)	653984	250.000	246
97 Pentachloroethane	167	20.595	20.595	(0.981)	461142	250.000	216
103 Benzyl chloride	91	21.123	21.123	(1.006)	2499471	250.000	266
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1085120	250.000	205
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	1097150	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	761527	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	378460	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	458519	50.0000	48.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1266918	50.0000	51.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	481280	50.0000	48.3

Data File: /chem/V0A7.1/022310v7/7a221.d

Date : 23-FEB-2010 21:04

Client ID: VSTD2505

Sample Info: 147VH000223-04|SHORT/SLCS11|V0AF11

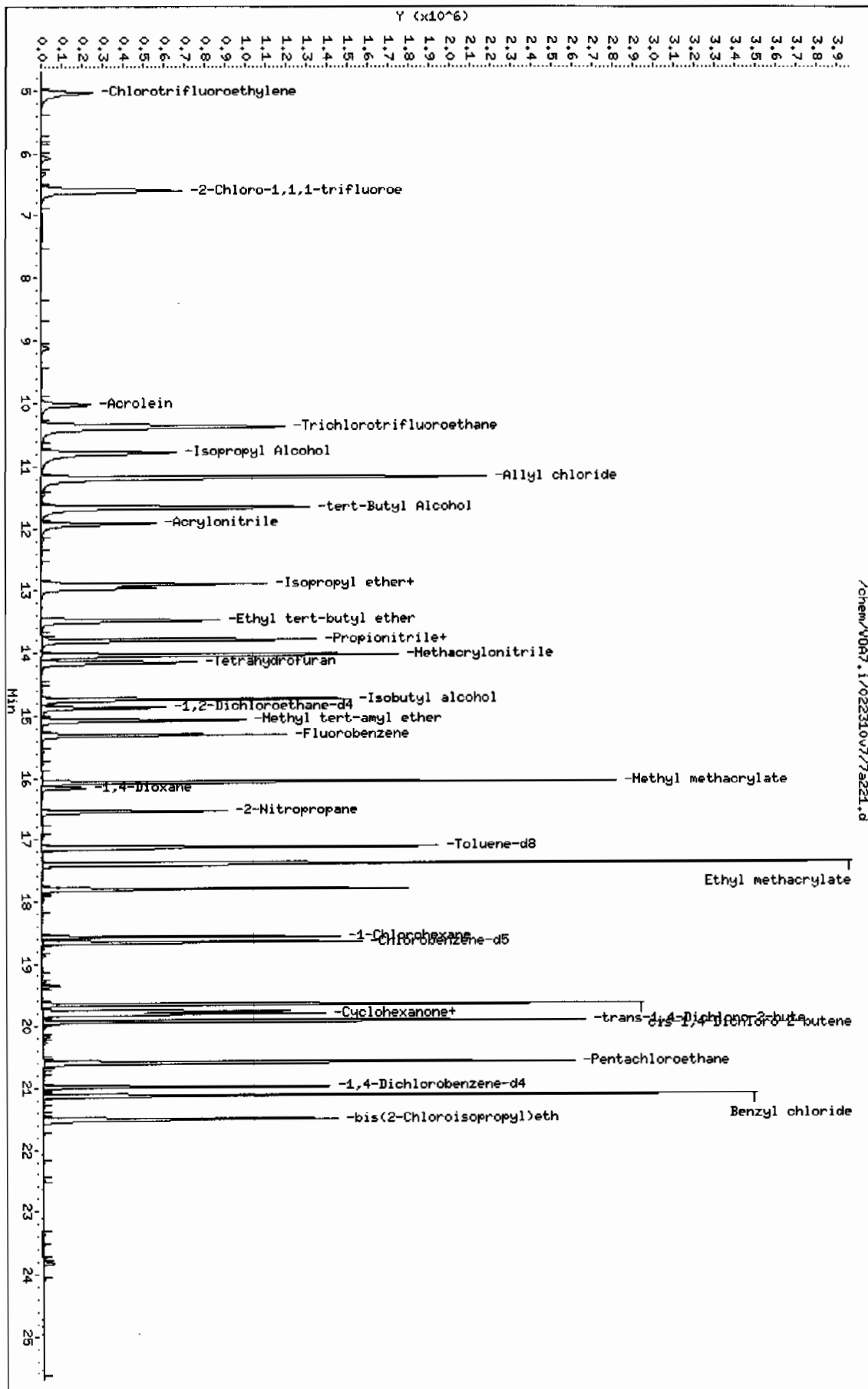
Purge Volume: 5.0

Column phase: DB-624

Instrument: V0A7.1

Operator: AX01

Column diameter: 0.25



Data File: /chem/VOA7.i/022410v7/7a302.d
Report Date: 08-Mar-2010 14:52

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GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 24-FEB-2010 10:51
Lab File ID: 7a302.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100224-01 Quant Type: ISTD
Method: /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 Xylenes (total)	0.64551	0.59048	0.59048	0.050	-8.52470	30.00000	Averaged
M 3 1,2-Dichloroethylene (total)	0.49511	0.44348	0.44348	0.050	-10.42674	30.00000	Averaged
M 1 1,3-Dichloropropylene	0.45215	0.45241	0.45241	0.050	0.05795	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.14145	0.14145	0.050	-9.14294	30.00000	Averaged
5 Chloromethane	0.46771	0.42449	0.42449	0.100	-9.24079	30.00000	Averaged spcc
6 Vinyl chloride	0.41543	0.40259	0.40259	0.050	-3.09040	20.00000	Averaged ccc
7 Bromomethane	0.23685	0.24344	0.24344	0.050	2.78201	30.00000	Averaged
8 Chloroethane	0.21246	0.21773	0.21773	0.010	2.48072	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.32458	0.32458	0.050	2.07235	30.00000	Averaged
10 Ethyl Ether	0.29582	0.30277	0.30277	0.001	2.34860	30.00000	Averaged
13 Acetone	0.33491	0.30813	0.30813	0.050	-7.99740	40.00000	Averaged
17 Acetonitrile	0.05935	0.06332	0.06332	0.010	6.69424	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.19425	0.19425	0.050	-10.66402	20.00000	Averaged ccc
18 Methyl acetate	0.30971	0.30327	0.30327	0.010	-2.07918	40.00000	Averaged
16 Iodomethane	0.37891	0.35091	0.35091	0.050	-7.39016	30.00000	Averaged
22 Methylene chloride	0.20428	0.17284	0.17284	0.050	-15.39180	30.00000	Averaged
19 Carbon disulfide	0.76494	0.65940	0.65940	0.050	-13.79717	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.72131	0.72131	0.050	-6.73374	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.41132	0.41132	0.050	-10.52235	30.00000	Averaged
26 Vinyl acetate	0.75971	0.71941	0.71941	0.010	-5.30454	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.54860	0.54860	0.100	-8.28929	30.00000	Averaged spcc
31 2-Butanone	0.37353	0.35085	0.35085	0.030	-6.07196	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.47564	0.47564	0.050	-10.34389	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.24932	0.24932	0.050	0.33652	30.00000	Averaged
38 Chloroform	0.49798	0.43500	0.43500	0.010	-12.64699	20.00000	Averaged ccc
37 Bromochloromethane	0.39220	0.36170	0.36170	0.010	-7.77691	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.32555	0.32555	0.010	-4.73401	30.00000	Averaged
43 Cyclohexane	0.55549	0.49498	0.49498	0.010	-10.89349	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.32809	0.32809	0.010	-8.30232	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01365	0.01365	0.001	4.97701	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.25531	0.25531	0.010	-6.10723	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.43123	0.43123	0.010	-0.17630	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.43929	0.43929	0.010	-10.59120	30.00000	Averaged
48 Benzene	1.09329	0.97847	0.97847	0.010	-10.50189	30.00000	Averaged
50 Cyclohexene	0.51508	0.49191	0.49191	0.010	-4.49875	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 24-FEB-2010 10:51
Lab File ID: 7a302.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100224-01 Quant Type: ISTD
Method: /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.26489	0.25109	0.25109	0.010	-5.21062	30.00000	Averaged
56 1,2-Dichloropropane	0.36406	0.33086	0.33086	0.010	-9.11891	20.00000	Averaged ccc
55 Methylcyclohexane	0.44055	0.42634	0.42634	0.010	-3.22665	30.00000	Averaged
59 Bromodichloromethane	0.39044	0.36407	0.36407	0.010	-6.75507	30.00000	Averaged
58 Dibromomethane	0.19638	0.18516	0.18516	0.010	-5.70937	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.14176	0.16612	0.16612	0.010	17.19059	30.00000	Averaged
63 4-Methyl-2-pentanone	0.24607	0.22331	0.22331	0.010	-9.24978	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.47551	0.46469	0.46469	0.010	-2.27548	30.00000	Averaged
64 Toluene-d8	1.62735	1.57855	1.57855	0.010	-2.99829	30.00000	Averaged
65 Toluene	0.90021	0.80691	0.80691	0.010	-10.36465	20.00000	Averaged ccc
67 trans-1,3-Dichloropropylene	0.61004	0.57903	0.57903	0.010	-5.08205	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33917	0.29585	0.29585	0.010	-12.77323	30.00000	Averaged
69 2-Hexanone	0.68092	0.58352	0.58352	0.010	-14.30379	40.00000	Averaged
70 1,3-Dichloropropane	0.69553	0.62548	0.62548	0.010	-10.07154	30.00000	Averaged
71 Tetrachloroethylene	0.24878	0.23215	0.23215	0.010	-6.68493	30.00000	Averaged
72 Dibromochloromethane	0.36583	0.34666	0.34666	0.010	-5.23898	30.00000	Averaged
73 1,2-Dibromoethane	0.36785	0.33820	0.33820	0.010	-8.05970	30.00000	Averaged
76 Chlorobenzene	0.92664	0.81577	0.81577	0.300	-11.96447	30.00000	Averaged spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.30341	0.30341	0.010	-4.98243	30.00000	Averaged
78 Ethylbenzene	1.68200	1.44914	1.44914	0.010	-13.84413	20.00000	Averaged ccc
79 m,p-Xylenes	0.63299	0.57645	0.57645	0.010	-8.93214	30.00000	Averaged
80 o-Xylene	0.67056	0.61855	0.61855	0.010	-7.75549	30.00000	Averaged
81 Styrene	1.07382	1.00900	1.00900	0.010	-6.03621	30.00000	Averaged
82 Bromoform	0.47906	0.44667	0.44667	0.100	-6.76171	30.00000	Averaged spcc
83 Isopropylbenzene	3.23464	2.65446	2.65446	0.010	-17.93668	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.13151	0.92591	0.92591	0.300	-18.17039	30.00000	Averaged spcc
86 Bromofluorobenzene	1.31523	1.27612	1.27612	0.010	-2.97383	30.00000	Averaged
89 1,2,3-Trichloropropane	0.24620	0.20381	0.20381	0.010	-17.21599	30.00000	Averaged
90 Bromobenzene	0.75737	0.64900	0.64900	0.010	-14.30882	30.00000	Averaged
91 n-Propylbenzene	4.11235	3.32993	3.32993	0.010	-19.02591	30.00000	Averaged
93 2-Chlorotoluene	2.81550	2.31520	2.31520	0.010	-17.76934	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.67285	2.33388	2.33388	0.010	-12.68192	30.00000	Averaged
94 4-Chlorotoluene	2.52732	2.07013	2.07013	0.010	-18.08965	30.00000	Averaged
95 tert-Butylbenzene	2.42130	2.11198	2.11198	0.010	-12.77475	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.70506	2.34258	2.34258	0.010	-13.40005	30.00000	Averaged
98 sec-Butylbenzene	3.56563	3.01519	3.01519	0.010	-15.43737	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 24-FEB-2010 10:51
Lab File ID: 7a302.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100224-01 Quant Type: ISTD
Method: /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL	MIN	MAX	CURVE TYPE
			RRF50	RRF	%D / %DRIFT	
99 4-Isopropyltoluene	2.57723	2.28414	2.28414	0.010	-11.37220	Averaged
100 1,3-Dichlorobenzene	1.47958	1.24259	1.24259	0.010	-16.01727	Averaged
102 1,4-Dichlorobenzene	1.44472	1.21724	1.21724	0.010	-15.74556	Averaged
104 n-Butylbenzene	2.98564	2.56663	2.56663	0.010	-14.03434	Averaged
105 1,2-Dichlorobenzene	1.48620	1.25814	1.25814	0.010	-15.34530	Averaged
107 1,2-Dibromo-3-chloropropane	45.43847	50.00000	0.16964	0.010	-9.12307	Linear
108 1,2,4-Trichlorobenzene	0.93109	0.81205	0.81205	0.010	-12.78556	Averaged
109 Hexachlorobutadiene	0.49991	0.42492	0.42492	0.010	-15.00022	Averaged
110 Naphthalene	2.33792	2.02668	2.02668	0.010	-13.31232	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.75537	0.75537	0.010	-12.24318	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.28819

Maximum Average %D/Drift = 20.00000

* Passed Average %D/Drift Test.

Data File: /chem/VOA7.i/022410v7/7a302.d
 Report Date: 08-Mar-2010 14:52

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a302.d

Lab Smp Id: W7VM100224-01

Client Smp ID: VSTD050

Inj Date : 24-FEB-2010 10:51

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100224-01|BFB/CCV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100106-07C/UVM100202-07D

Comment :

Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubL+.sub

Target Version: 3.50

Processing Host: prdsvr07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable

Local Compound Variable

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds		MASS		RT	EXP RT REL RT	RESPONSE	(ug/l)
=====	=====	----		==	-----	-----	-----
M 2 Xylenes (total)		106				1270182	150.000
M 3 1,2-Dichloroethylene (total)		96				836676	100.000
M 1 1,3-Dichloropropylene		75				853523	100.000
4 Dichlorodifluoromethane		85		5.148	5.148 (0.336)	133433	50.0000
5 Chloromethane		50		5.757	5.757 (0.376)	400419	50.0000
6 Vinyl chloride		62		6.188	6.188 (0.404)	379761	50.0000
7 Bromomethane		94		7.418	7.418 (0.484)	229638	50.0000
8 Chloroethane		64		7.845	7.845 (0.512)	205385	50.0000
9 Trichlorofluoromethane		101		8.789	8.789 (0.574)	306172	50.0000
10 Ethyl Ether		59		9.703	9.703 (0.633)	285601	50.0000
13 Acetone		43		10.413	10.413 (0.680)	1453285	250.000
17 Acetonitrile		41		11.073	11.073 (0.723)	1194681	1000.00
14 1,1-Dichloroethylene		96		10.312	10.312 (0.673)	183238	50.0000
18 Methyl acetate		43		11.225	11.225 (0.733)	1430359	250.000
16 Iodomethane		142		10.667	10.667 (0.696)	1655051	250.000

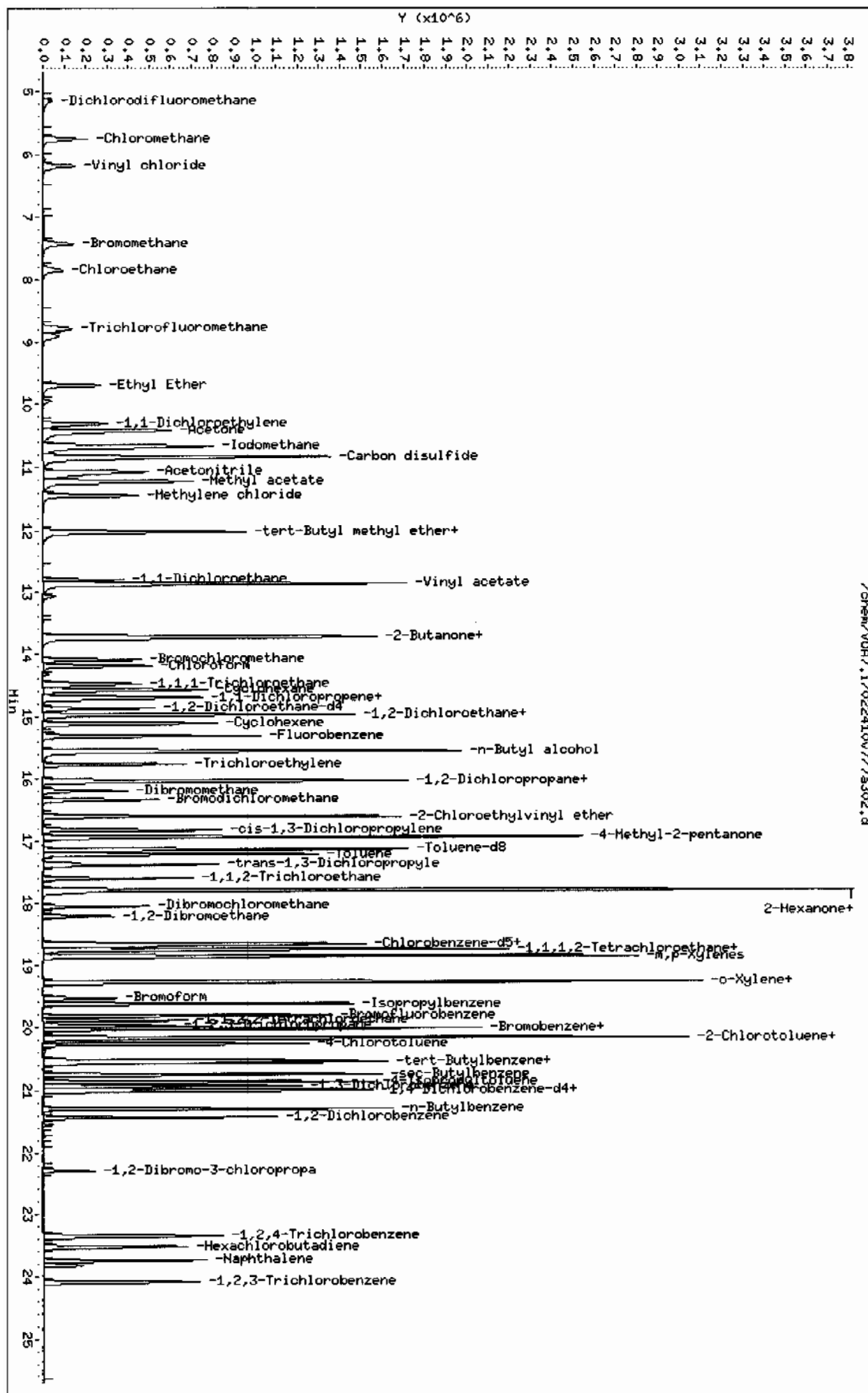
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
22 Methylene chloride	86	11.449	11.449	(0.747)	163037	50.0000	42.3
19 Carbon disulfide	76	10.840	10.840	(0.708)	3110050	250.000	216
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	680415	50.0000	46.6
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	388002	50.0000	44.7
26 Vinyl acetate	43	12.860	12.860	(0.840)	3393111	250.000	237
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	517497	50.0000	45.8
31 2-Butanone	43	13.723	13.723	(0.896)	1654783	250.000	235
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	448674	50.0000	44.8
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	235181	50.0000	50.2
38 Chloroform	83	14.190	14.190	(0.926)	410332	50.0000	43.7
37 Bromochloromethane	49	14.088	14.088	(0.920)	341189	50.0000	46.1
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	307094	50.0000	47.6
43 Cyclohexane	56	14.586	14.586	(0.952)	466911	50.0000	44.6
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	309487	50.0000	45.8
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1287564	5000.00	5250
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	240831	50.0000	46.9
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	406776	50.0000	49.9
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	414381	50.0000	44.7
48 Benzene	78	14.982	14.982	(0.978)	922991	50.0000	44.7
50 Cyclohexene	67	15.114	15.114	(0.987)	464017	50.0000	47.8
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	943299	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	236855	50.0000	47.4
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	312101	50.0000	45.4
55 Methylcyclohexane	83	16.027	16.027	(1.046)	402163	50.0000	48.4
59 Bromodichloromethane	83	16.332	16.332	(1.066)	343427	50.0000	46.6
58 Dibromomethane	93	16.180	16.180	(1.056)	174665	50.0000	47.1
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	783527	250.000	293
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	800586	250.000	227
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	438337	50.0000	48.9
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1131872	50.0000	48.5
65 Toluene	92	17.215	17.215	(0.922)	578579	50.0000	44.8
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	415186	50.0000	47.4
68 1,1,2-Trichloroethane	83	17.601	17.601	(0.943)	212133	50.0000	43.6
69 2-Hexanone	43	17.794	17.794	(0.953)	2092020	250.000	214
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	448491	50.0000	45.0
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	166457	50.0000	46.6
72 Dibromochloromethane	129	18.058	18.058	(0.967)	248568	50.0000	47.4
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	242502	50.0000	46.0
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	717031	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	584931	50.0000	44.0
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	217553	50.0000	47.5
78 Ethylbenzene	91	18.758	18.758	(1.005)	1039077	50.0000	43.1
79 m,p-Xylenes	106	18.870	18.870	(1.011)	826660	100.000	91.1
80 o-Xylene	106	19.286	19.286	(1.033)	443522	50.0000	46.1
81 Styrene	104	19.286	19.286	(1.033)	723484	50.0000	47.0
82 Bromoform	173	19.540	19.540	(0.931)	167185	50.0000	46.6
83 Isopropylbenzene	105	19.631	19.631	(0.935)	993544	50.0000	41.0

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	346561	50.0000	40.9
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	477643	50.0000	48.5
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	76286	50.0000	41.4
90 Bromobenzene	156	20.017	20.017	(0.954)	242916	50.0000	42.8
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1246371	50.0000	40.5
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	866564	50.0000	41.1
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	873555	50.0000	43.6
94 4-Chlorotoluene	91	20.261	20.261	(0.965)	774837	50.0000	41.0
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	790501	50.0000	43.6
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	876812	50.0000	43.3
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1128566	50.0000	42.3
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	854938	50.0000	44.3
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	465094	50.0000	42.0
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	374293	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	455606	50.0000	42.1
104 n-Butylbenzene	91	21.296	21.296	(1.014)	960670	50.0000	43.0
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	470913	50.0000	42.3
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	63495	50.0000	45.4
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	303943	50.0000	43.6
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	159046	50.0000	42.5
110 Naphthalene	128	23.743	23.743	(1.131)	758574	50.0000	43.3
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	282731	50.0000	43.9

Data File: /chem/V067.i/022410v7/7a302.d
 Date : 24-FEB-2010 10:51
 Client ID: VSTD050
 Sample Info: 147VH100224-01.BFB/CCV11.V067.1.1
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V067.i
 Operator: RXD1
 Column diameter: 0.25

/chem/V067.i/022410v7/7a302.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 24-FEB-2010 12:33
Lab File ID: 7a305.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100224-04 Quant Type: ISTD
Method: /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.10627	0.09286	0.09286	0.010	-12.61950	30.00000	Averaged
148 2-Chloro-1,1,1-trifluoroeth	0.21104	0.20844	0.20844	0.010	-1.23020	30.00000	Averaged
11 Acrolein	0.04808	0.06492	0.06492	0.001	35.03246	30.00000	Averaged<-
12 Trichlorotrifluoroethane	0.08737	0.09778	0.09778	0.010	11.91491	30.00000	Averaged
15 Isopropyl Alcohol	0.03252	0.03156	0.03156	0.010	-2.95251	40.00000	Averaged
20 Allyl chloride	0.47439	0.45910	0.45910	0.010	-3.22473	30.00000	Averaged
21 tert-Butyl Alcohol	0.04700	0.04517	0.04517	0.001	-3.89737	40.00000	Averaged
23 Acrylonitrile	0.13462	0.13870	0.13870	0.010	3.02951	30.00000	Averaged
27 Isopropyl ether	1.27617	1.23471	1.23471	0.010	-3.24869	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.47510	0.47510	0.010	16.43601	30.00000	Averaged
30 Ethyl tert-butyl ether	0.87171	0.93480	0.93480	0.010	7.23789	30.00000	Averaged
35 Propionitrile	0.05907	0.05668	0.05668	0.010	-4.04232	30.00000	Averaged
32 Ethyl acetate	0.40471	0.34530	0.34530	0.010	-14.68011	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.22427	0.22427	0.010	-8.57024	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.35080	0.35080	0.010	-16.31047	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01667	0.01667	0.005	-6.94898	40.00000	Averaged
49 Methyl tert-amyl ether	0.66978	0.74299	0.74299	0.010	10.92984	30.00000	Averaged
54 Methyl methacrylate	0.21684	0.22274	0.22274	0.010	2.72233	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.55216	0.55216	0.010	-3.53264	30.00000	Averaged
74 1-Chlorohexane	0.31936	0.33649	0.33649	0.010	5.36449	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00349	0.00349	0.001	7.17443	40.00000	Averaged
60 2-Nitropropane	0.14035	0.14982	0.14982	0.010	6.74745	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.41770	0.41770	0.010	7.37784	30.00000	Averaged
85 Cyclohexanone	0.02826	0.05597	0.05597	0.010	98.04102	40.00000	Averaged<-
88 trans-1,4-Dichloro-2-butene	0.35107	0.37599	0.37599	0.010	7.09912	30.00000	Averaged
97 Pentachloroethane	0.28176	0.42900	0.42900	0.010	52.25980	30.00000	Averaged<-
103 Benzyl chloride	1.23904	1.54986	1.54986	0.010	25.08483	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.69951	0.61193	0.61193	0.010	-12.51920	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.43199	0.43096	0.43096	0.010	-0.23753	30.00000	Averaged
64 Toluene-d8	1.62735	1.63008	1.63008	0.010	0.16771	30.00000	Averaged
86 Bromofluorobenzene	1.31523	1.26383	1.26383	0.010	-3.90810	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 24-FEB-2010 12:33
Lab File ID: 7a305.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100224-04 Quant Type: ISTD
Method: /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Average %D / Drift Results.

Calculated Average %D/Drift = 9.28819
Maximum Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /chem/VOA7.i/022410v7/7a305.d
Report Date: 25-Feb-2010 07:52

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a305.d

Lab Smp Id: W7VM100224-04

Client Smp ID: VSTD250S

Inj Date : 24-FEB-2010 12:33

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100224-04|SHORT|SLCS|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM091216-08B/UVM100125-08D

Comment :

Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Meth Date : 25-Feb-2010 07:37 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubS+SS.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	308410	150.000	131
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	692264	150.000	148
11 Acrolein	56	10.017	10.017	(0.654)	359357	250.000	338
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	541208	250.000	280
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1746925	2500.00	2430
20 Allyl chloride	41	11.185	11.185	(0.730)	2541202	250.000	242
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	2500230	2500.00	2400
23 Acrylonitrile	53	11.926	11.926	(0.779)	767716	250.000	258
27 Isopropyl ether	45	12.901	12.901	(0.842)	1366886	50.0000	48.4
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	525954	50.0000	58.2
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	1034874	50.0000	53.6
35 Propionitrile	54	13.804	13.804	(0.901)	313732	250.000	240
32 Ethyl acetate	43	13.794	13.794	(0.901)	1911297	250.000	213
36 Methacrylonitrile	41	14.038	14.038	(0.916)	1241403	250.000	228
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	699690	250.000	209
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	922712	2500.00	2330

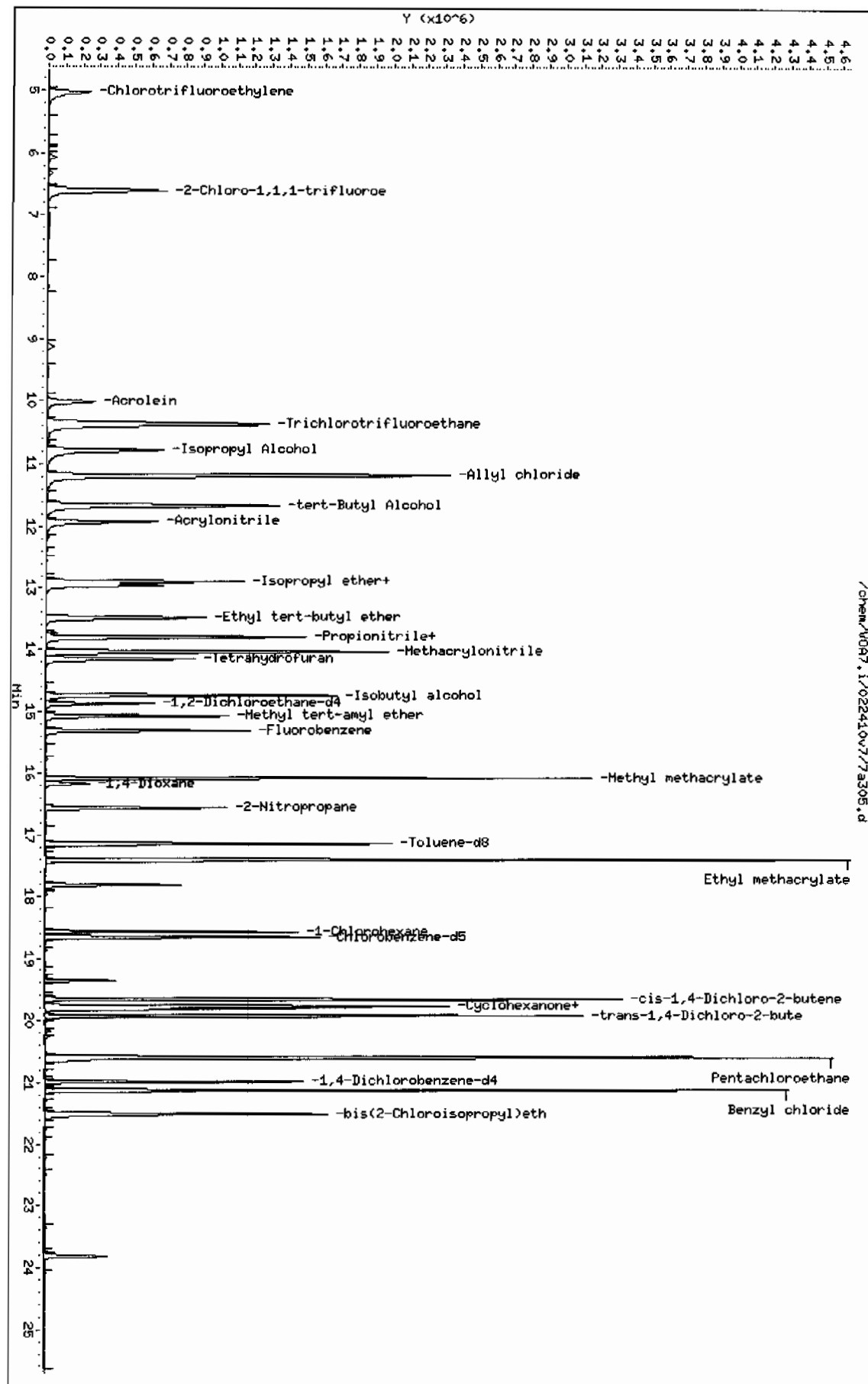
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	822526	50.0000	55.5
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1232913	250.000	257
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	2200256	250.000	241
74 1-Chlorohexane	55	18.575	18.575	(1.213)	372507	50.0000	52.7
57 1,4-Dioxane	88	16.159	16.159	(1.055)	193337	2500.00	2680
60 2-Nitropropane	43	16.555	16.555	(1.081)	829283	250.000	267
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	833133	250.000	268
85 Cyclohexanone	55	19.773	19.773	(1.059)	1115157	1250.00	2480
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	749936	250.000	268
97 Pentachloroethane	167	20.596	20.596	(0.981)	855673	250.000	381 (A)
103 Benzyl chloride	91	21.124	21.124	(1.006)	3091305	250.000	313
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1220549	250.000	219
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1107048	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	796968	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	398914	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	477096	50.0000	49.9
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1299118	50.0000	50.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	504161	50.0000	48.0

QC Flag Legend

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

Data File: /chem/V007.i/022410v77a305.d
 Date : 24-FEB-2010 12:33
 Client ID: VSTD2505
 Sample Info: IN7VH100224-04|SHORT/SILCS11|V00F11|
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V007.i
 Operator: AX01
 Column diameter: 0.25



QC Data

Data File: /chem/VOA7.i/021710v7/7z309.d

Page 1

Date : 17-FEB-2010 15:29

Client ID: BFB01

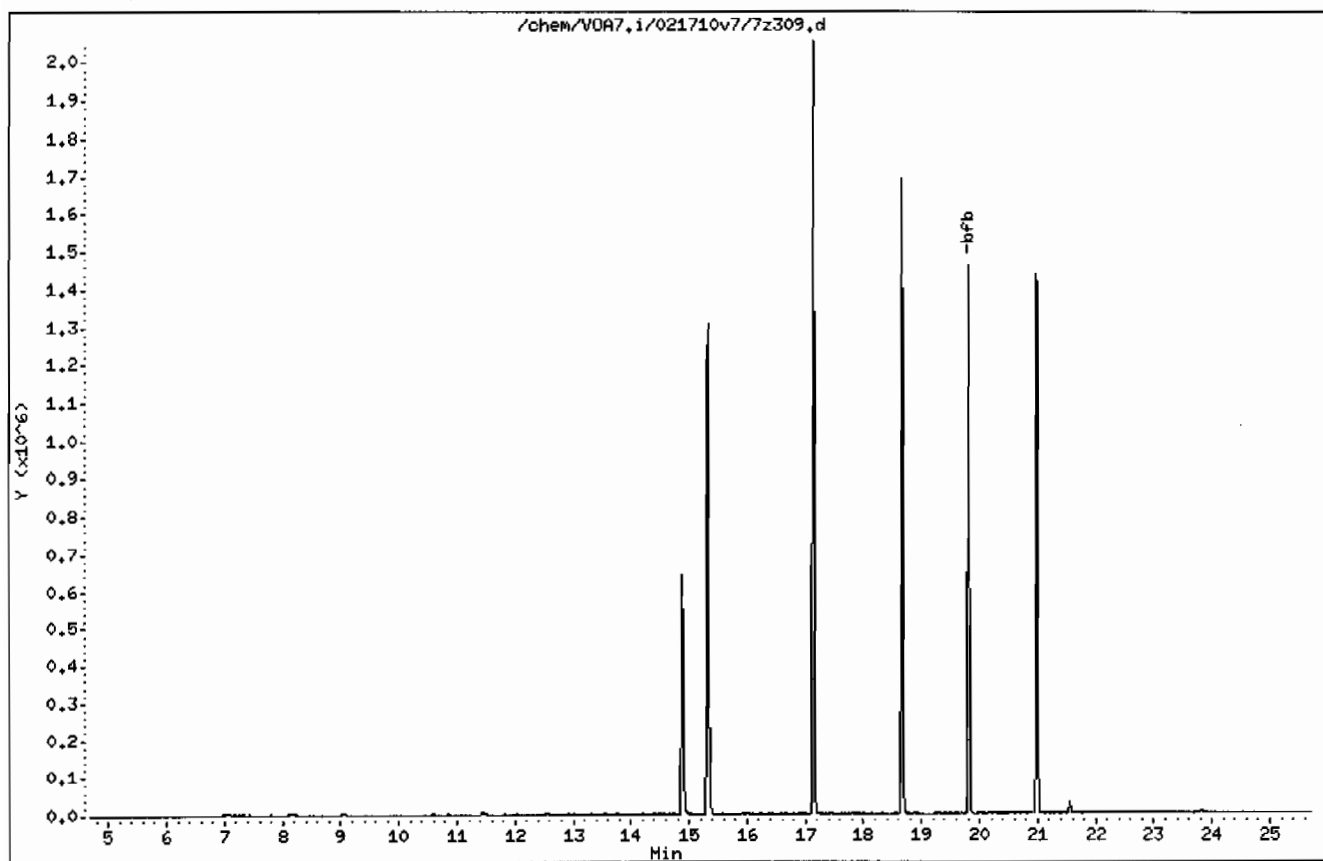
Instrument: VOA7.i

Sample Info: I120200-----IRINSEI1/VOAFI11

Operator: CDS1

Column phase: db624

Column diameter: 0.25



Date : 17-FEB-2010 15:29

Client ID: BFB01

Instrument: V0A7,i

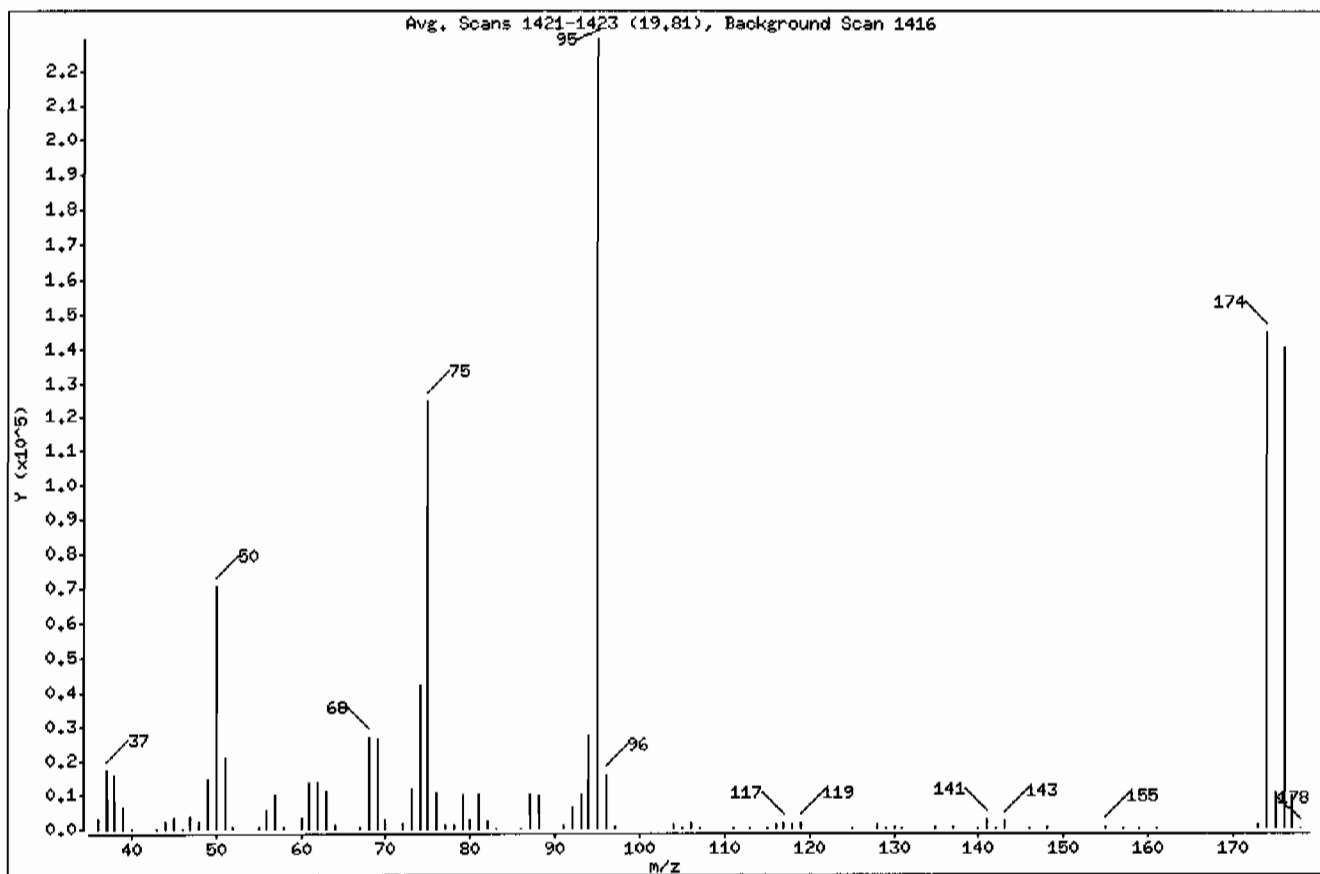
Sample Info: I120200-----IRINSEI1IV0AFI1I

Operator: CDS1

Column phase: db624

Column diameter: 0,25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	30.76
75	30.00 - 60.00% of mass 95	54.23
96	5.00 - 9.00% of mass 95	6.98
173	Less than 2.00% of mass 174	0.36 (0.57)
174	50.00 - 100.00% of mass 95	63.04
175	5.00 - 9.00% of mass 174	4.53 (7.18)
176	95.00 - 101.00% of mass 174	61.26 (97.17)
177	5.00 - 9.00% of mass 176	4.24 (6.92)

Date : 17-FEB-2010 15:29

Client ID: BFB01

Instrument: V0A7.i

Sample Info: 1120200-----IRINSE11V0AF111

Operator: CDS1

Column phase: db624

Column diameter: 0,25

Data File: 7z309.d
Spectrum: Avg. Scans 1421-1423 (19,81), Background Scan 1416
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3286	63.00	11103	92.00	6546	135.00	493
37.00	17472	64.00	947	93.00	9939	137.00	490
38.00	16055	67.00	680	94.00	27256	140.00	87
39.00	6161	68.00	26752	95.00	229440	141.00	2431
40.00	202	69.00	26480	96.00	16004	142.00	224
43.00	96	70.00	2378	97.00	507	143.00	2362
44.00	2000	72.00	1351	104.00	1056	146.00	133
45.00	3186	73.00	11623	105.00	224	148.00	278
46.00	155	74.00	42264	106.00	1400	155.00	331
47.00	3534	75.00	124432	107.00	195	157.00	97
48.00	1953	76.00	10309	111.00	126	159.00	99
49.00	14857	77.00	1286	113.00	145	161.00	134
50.00	70568	78.00	973	115.00	130	173.00	824
51.00	20904	79.00	9389	116.00	905	174.00	144640
52.00	786	80.00	2629	117.00	1450	175.00	10392
55.00	762	81.00	10002	118.00	842	176.00	140544
56.00	5200	82.00	2048	119.00	1357	177.00	9727
57.00	9767	83.00	119	125.00	98	178.00	196
58.00	507	86.00	242	128.00	824		
60.00	2962	87.00	10165	129.00	258		
61.00	13385	88.00	9659	130.00	689		
62.00	13596	91.00	822	131.00	232		

Data File: /chem/VOA7.i/022310v7/7a218BFB.d

Page 1

Date : 23-FEB-2010 19:23

Client ID: BFB01

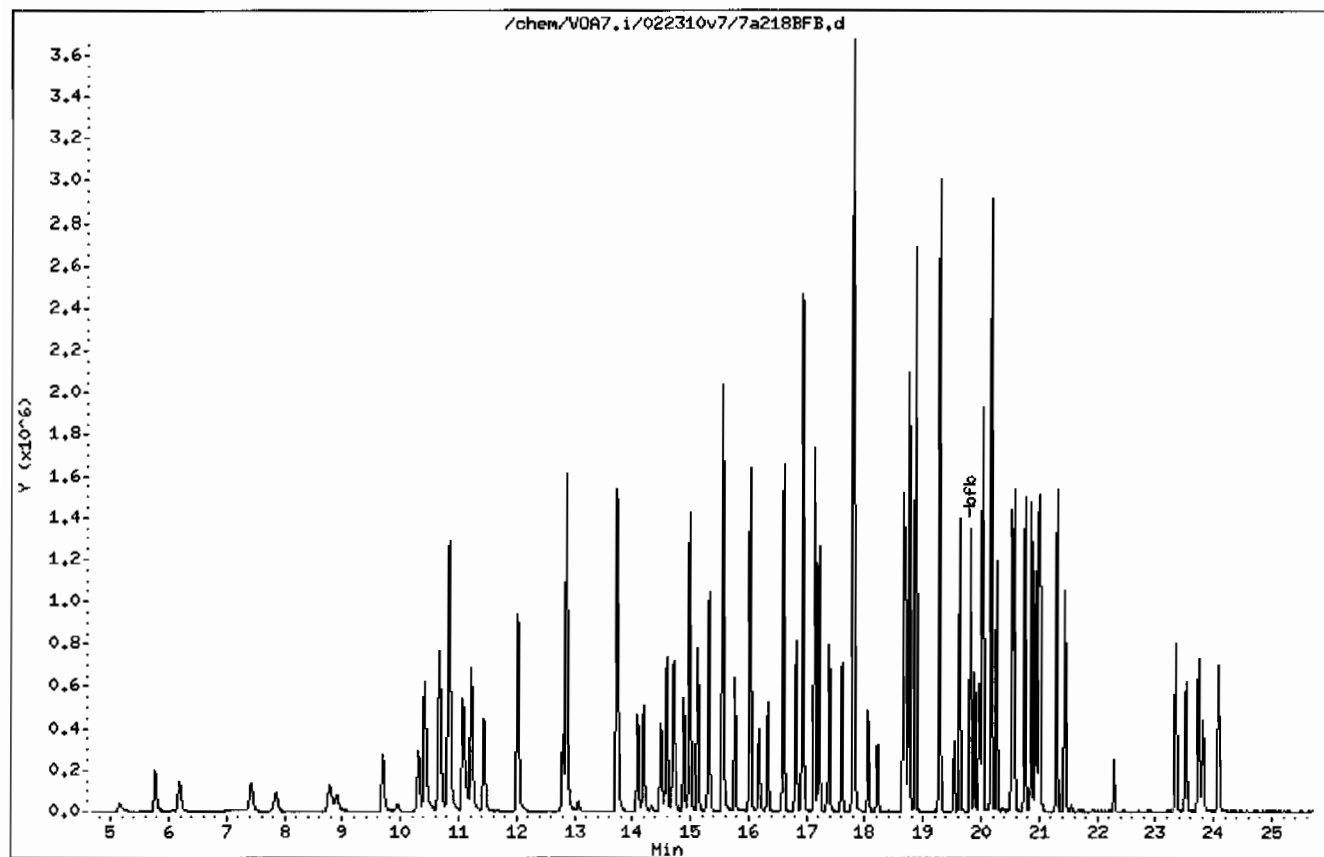
Instrument: VOA7.i

Sample Info: 1W7VM100223-011BFB/CCV111VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0.25



Date : 23-FEB-2010 19:23

Client ID: BFB01

Instrument: VOA7.1

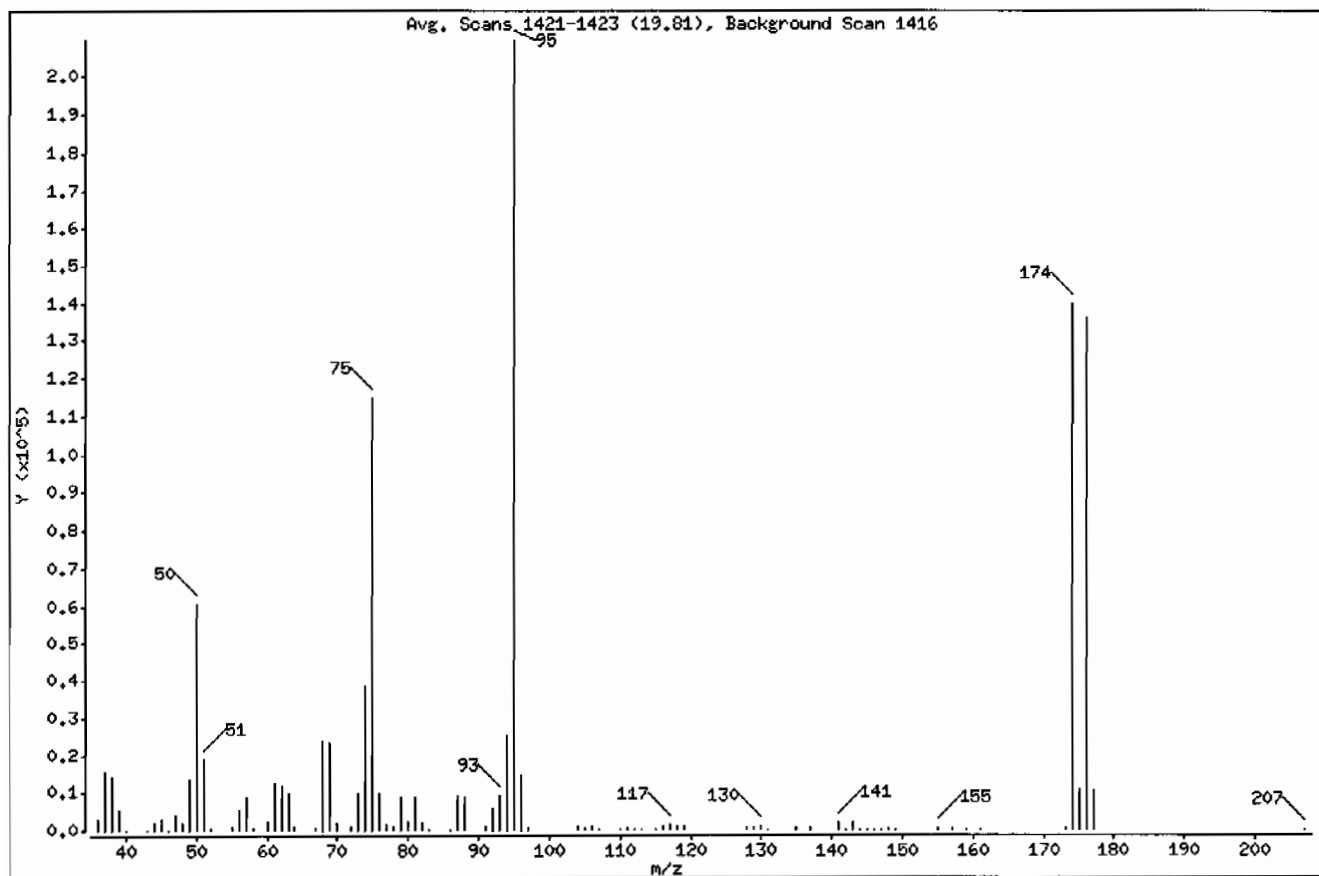
Sample Info: IW7VM100223-011BFB/CCV111VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.05
75	30.00 - 60.00% of mass 95	54.72
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.31 (0.46)
174	50.00 - 100.00% of mass 95	66.69
175	5.00 - 9.00% of mass 174	4.94 (7.41)
176	95.00 - 101.00% of mass 174	64.73 (97.07)
177	5.00 - 9.00% of mass 176	4.82 (7.45)

Date : 23-FEB-2010 19:23

Client ID: BFB01

Instrument: VOA7.i

Sample Info: IW7VM100223-011BFB/CCV111VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0,25

Data File: 7a218BFB.d

Spectrum: Avg. Scans 1421-1423 (19,81), Background Scan 1416

Location of Maximum: 95,00

Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	2928	64,00	949	94,00	24968	141,00	2016
37,00	15587	67,00	677	95,00	209792	142,00	99
38,00	14082	68,00	23824	96,00	14417	143,00	1967
39,00	5534	69,00	23336	97,00	402	144,00	122
40,00	205	70,00	1807	104,00	1096	145,00	208
43,00	97	72,00	1176	105,00	435	146,00	193
44,00	2092	73,00	9775	106,00	1130	147,00	125
45,00	2737	74,00	38424	107,00	97	148,00	426
46,00	231	75,00	114800	110,00	85	149,00	119
47,00	3713	76,00	9429	111,00	246	155,00	326
48,00	1861	77,00	1472	112,00	102	157,00	278
49,00	13695	78,00	967	113,00	85	159,00	123
50,00	60944	79,00	8796	115,00	148	161,00	114
51,00	18784	80,00	2584	116,00	752	173,00	646
52,00	606	81,00	8849	117,00	1321	174,00	139904
55,00	867	82,00	1777	118,00	769	175,00	10373
56,00	5225	83,00	96	119,00	1152	176,00	135808
57,00	8840	86,00	177	128,00	588	177,00	10116
58,00	389	87,00	9103	129,00	387	207,00	90
60,00	2281	88,00	8735	130,00	862		
61,00	12467	91,00	876	131,00	216		
62,00	11539	92,00	5690	135,00	336		
63,00	9679	93,00	9327	137,00	462		

Data File: /chem/VOA7,i/022410v7/7a302BFB.d

Page 1

Date : 24-FEB-2010 10:51

Client ID: BFB01

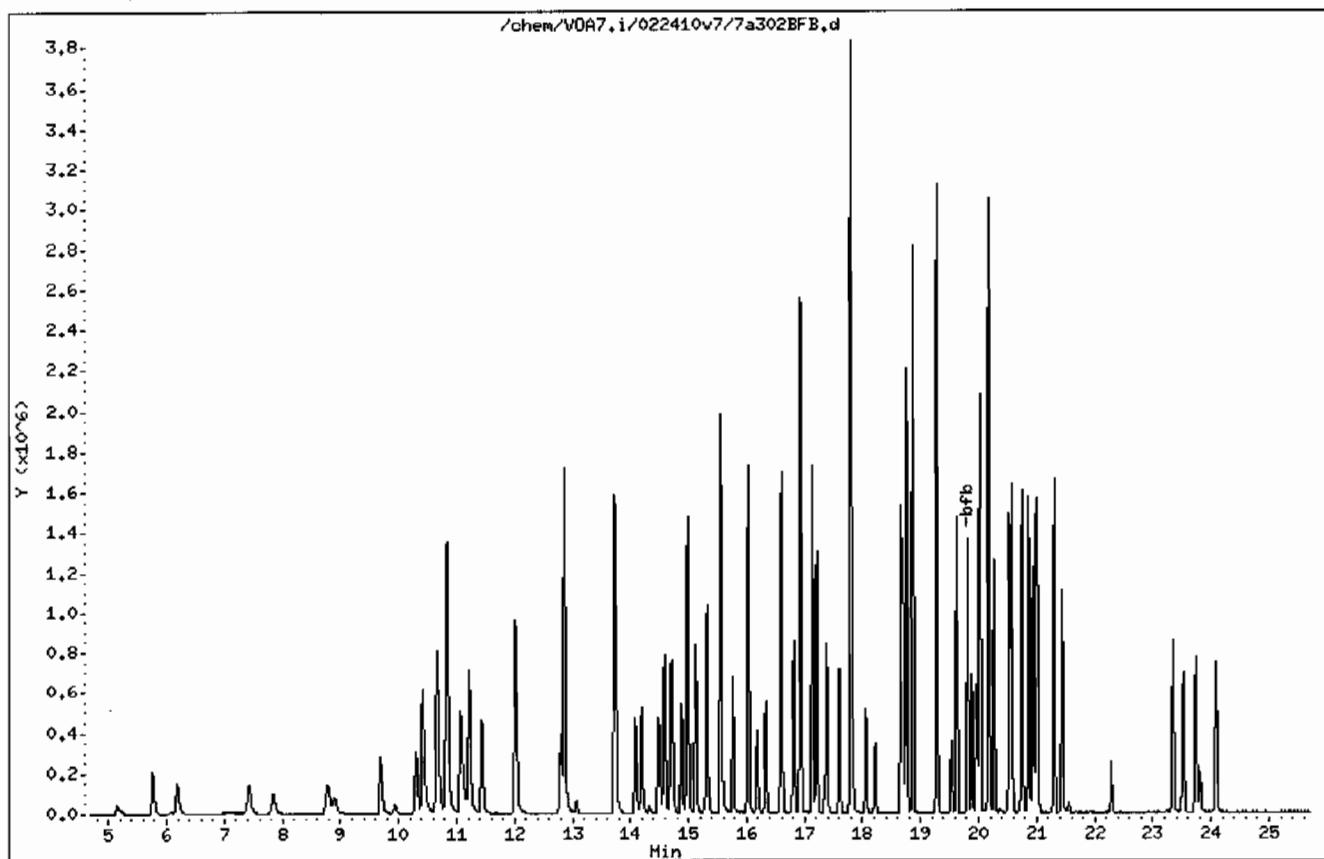
Instrument: VOA7.i

Sample Info: IW7VH100224-011BFB/CCV111VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0.25



Date : 24-FEB-2010 10:51

Client ID: BFB01

Instrument: VOA7.i

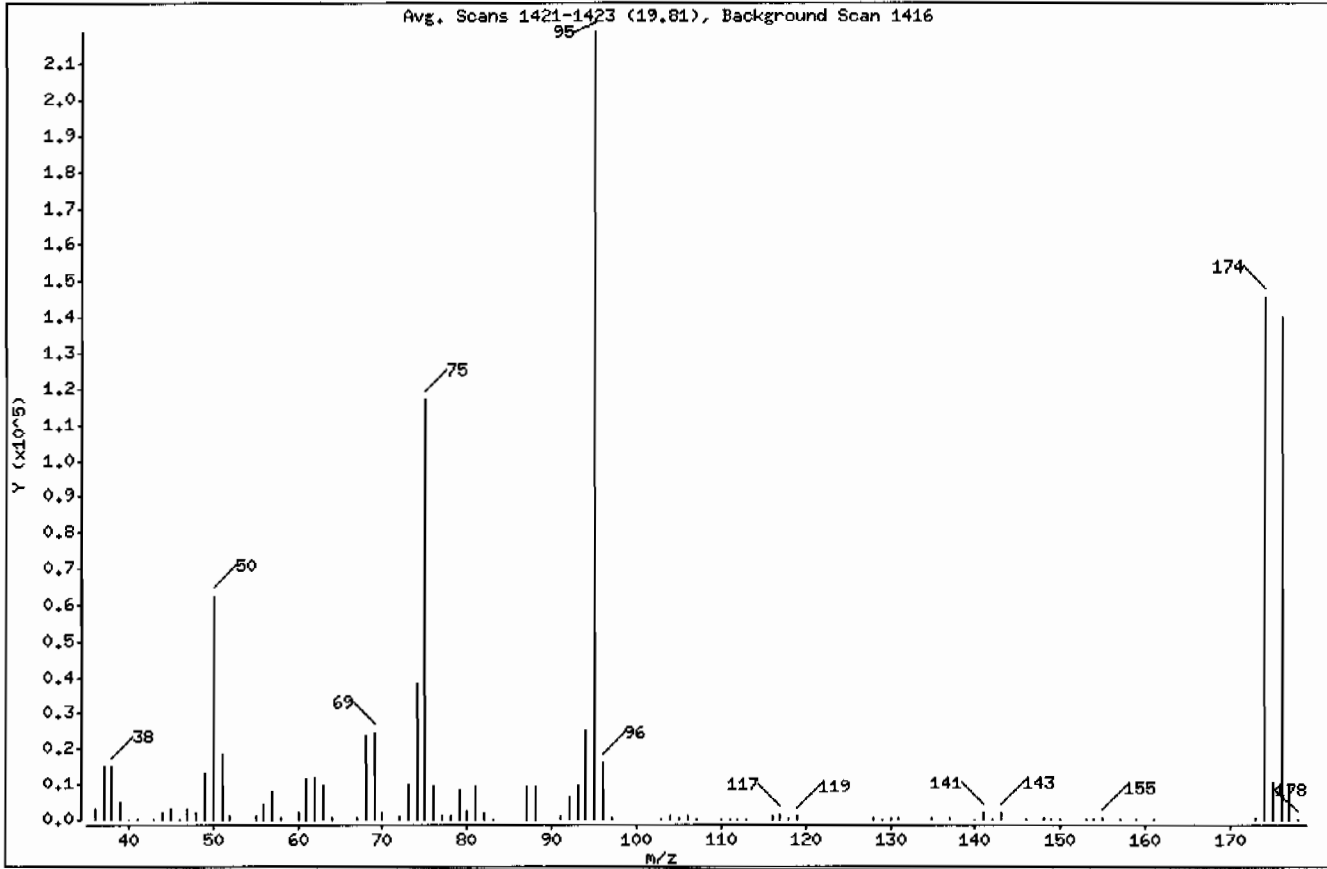
Sample Info: IW7VM100224-01|BFB/CCV11|VOAF11|

Operator: AX01

Column phase: db624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.46
75	30.00 - 60.00% of mass 95	53.42
96	5.00 - 9.00% of mass 95	7.29
173	Less than 2.00% of mass 174	0.33 (0.50)
174	50.00 - 100.00% of mass 95	66.39
175	5.00 - 9.00% of mass 174	4.84 (7.29)
176	95.00 - 101.00% of mass 174	63.91 (96.26)
177	5.00 - 9.00% of mass 176	4.49 (7.03)

Date : 24-FEB-2010 10:51

Client ID: BFB01

Instrument: VOA7.i

Sample Info: IW7VM100224-01/BFB/CCV11/VOAF11

Operator: AX01

Column phase: db624

Column diameter: 0.25

Data File: 7a302BFB.d

Spectrum: Avg. Scans 1421-1423 (19,81), Background Scan 1416

Location of Maximum: 95.00

Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2899	63.00	9452	94.00	25072	140.00	109
37.00	15195	64.00	752	95.00	219200	141.00	2114
38.00	15268	67.00	631	96.00	15971	142.00	210
39.00	5291	68.00	23616	97.00	541	143.00	1950
40.00	138	69.00	24816	103.00	223	146.00	193
41.00	91	70.00	1952	104.00	986	148.00	528
43.00	198	72.00	1208	105.00	532	149.00	110
44.00	1912	73.00	9925	106.00	1133	150.00	86
45.00	3014	74.00	38376	107.00	212	153.00	83
46.00	103	75.00	117088	110.00	91	154.00	129
47.00	3184	76.00	9706	111.00	202	155.00	439
48.00	1800	77.00	1249	112.00	243	157.00	211
49.00	13262	78.00	1067	113.00	129	159.00	125
50.00	62384	79.00	8523	116.00	790	161.00	95
51.00	18768	80.00	2575	117.00	1641	173.00	731
52.00	930	81.00	9381	118.00	724	174.00	145536
55.00	992	82.00	2089	119.00	1061	175.00	10603
56.00	4675	83.00	200	128.00	719	176.00	140096
57.00	8159	87.00	9663	129.00	235	177.00	9842
58.00	280	88.00	9449	130.00	578	178.00	124
60.00	2249	91.00	1015	131.00	310		
61.00	11581	92.00	6423	135.00	335		
62.00	12172	93.00	9438	137.00	427		

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905		Matrix: SOIL
Lab Sample ID: 1202051370		
Client Sample: QC for batch 956738	Client: LANL010	Project: QC
Client ID: MB for batch 956738	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/23/2010 22:45	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a224ll.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
 Lab Sample ID: 1202051370
 Client Sample: QC for batch 956738
 Client ID: MB for batch 956738
 Batch ID: 956739
 Run Date: 02/23/2010 22:45
 Prep Date: 02/23/2010 15:00
 Data File: 7a224ll.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane Trichlorotrifluoroethane	U	5.00	ug/kg	1.60	5.00
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a22411.d

Lab Smp Id: 1202051370

Client Smp ID: BLANK

Inj Date : 23-FEB-2010 22:45

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202051370|956739|1|VOAF|1|

Misc Info : GEL 5g N/A

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 24

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	447943	51.1744	51.2
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1013136	50.0000	
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1151875	49.0005	49.0
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	722262	50.0000	
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	444093	48.9740	49.0
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	344727	50.0000	

Data File: /chem/VOA7.i/022310v7/7a22411.d
Report Date: 08-Mar-2010 13:22

Page 2

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/022310v7/7a22411.d
Lab Smp Id: 1202051370 Client Smp ID: BLANK
Inj Date : 23-FEB-2010 22:45
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202051370|956739|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V067.1/022310v7/7a22411.d

Date: 23-FEB-2010 22:45

Client ID: BLANK

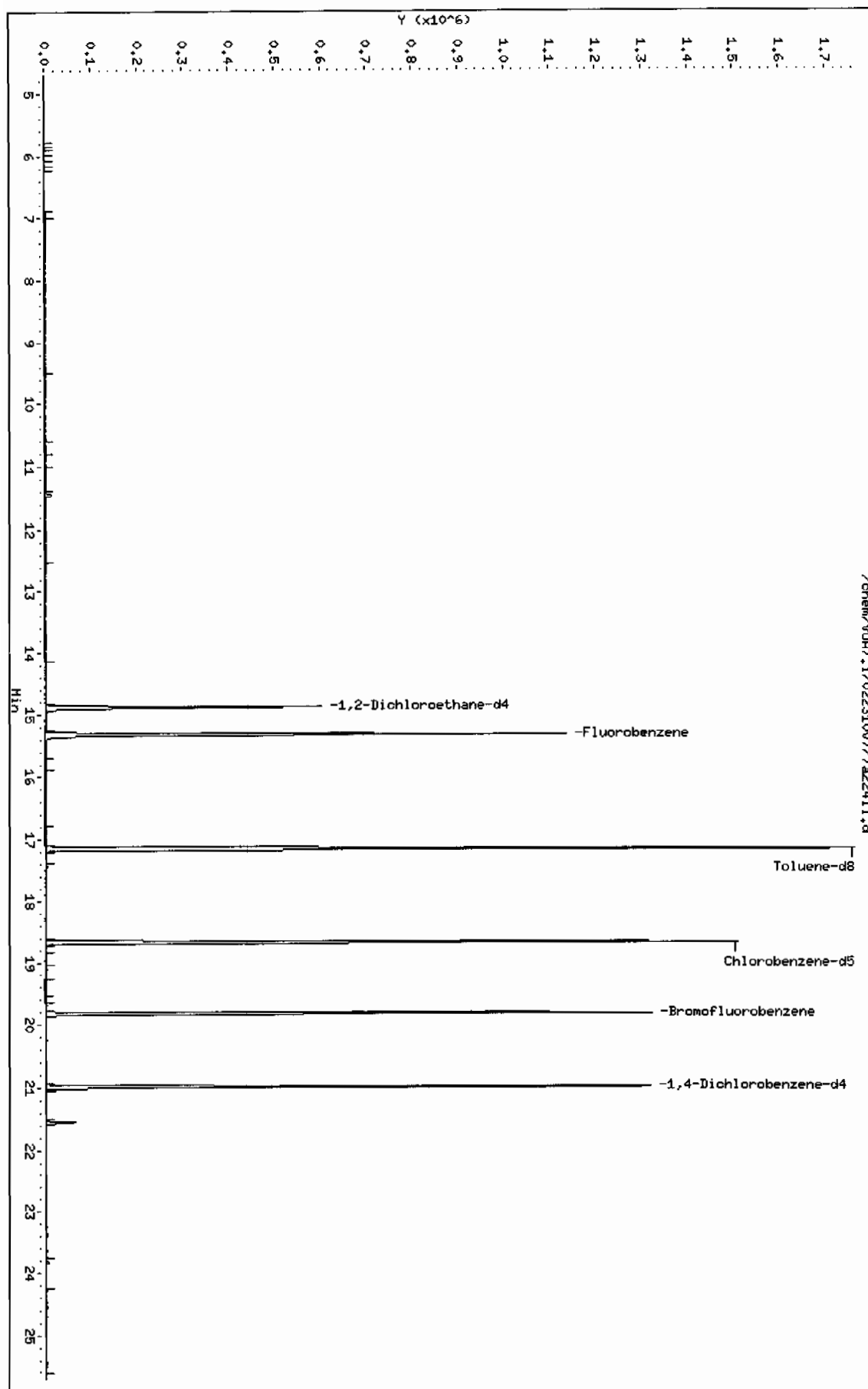
Sample Info: 112020513701956739141V06711

Column phase: DB-624

Instrument: V067.1

Operator: RXD1

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 1202065431
 Client Sample: QC for batch 956738
 Client ID: MB for batch 956738
 Batch ID: 956739
 Run Date: 02/24/2010 14:15
 Prep Date: 02/24/2010 10:00
 Data File: 7a30811.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 1202065431
 Client Sample: QC for batch 956738
 Client ID: MB for batch 956738
 Batch ID: 956739
 Run Date: 02/24/2010 14:15
 Prep Date: 02/24/2010 10:00
 Data File: 7a308ll.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a30811.d

Lab Smp Id: 1202065431

Client Smp ID: BLANK

Inj Date : 24-FEB-2010 14:15

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202065431|956739|1|VOAF|1|

Misc Info : GEL 5g N/A

Comment :

Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 8

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	=====	==	=====	=====	=====	(ug/l)	(ug/Kg)	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	457608	54.7773	54.8	
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	966921	50.0000		
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1117271	49.6250	49.6	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	691748	50.0000		
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	440308	49.4848	49.5	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	338261	50.0000		

Data File: /chem/VOA7.i/022410v7/7a30811.d
Report Date: 08-Mar-2010 14:54

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a30811.d
Lab Smp Id: 1202065431 Client Smp ID: BLANK
Inj Date : 24-FEB-2010 14:15
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202065431|956739|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V007.i/022410v7/7a30811.d

Date: 24-FEB-2010 14:15

Client ID: BLANK

Sample Info: 1120206543195673911.V00711.i

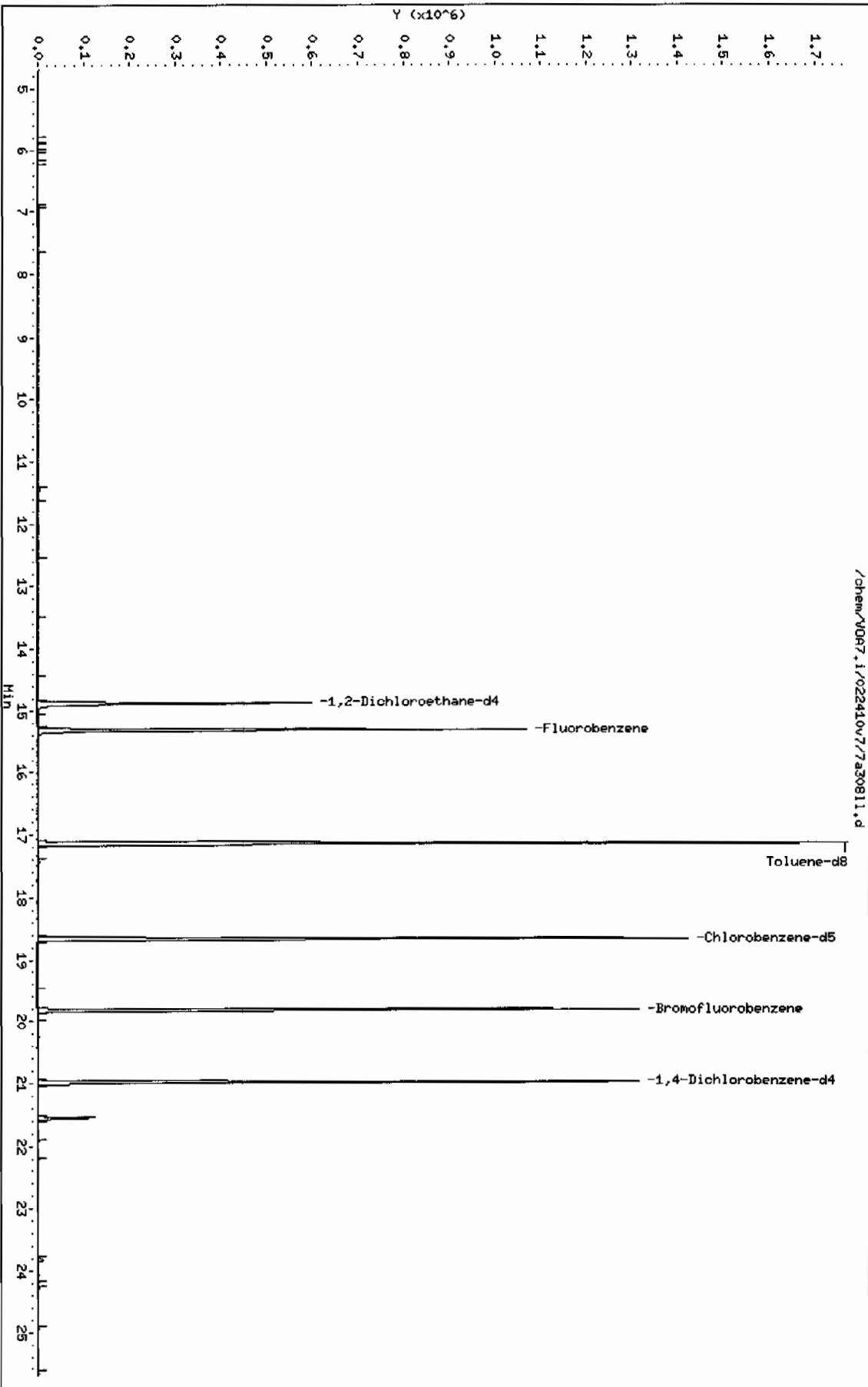
Column phase: DB-624

Instrument: V007.i

Operator: AX01

Column diameter: 0.25

Page 1



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 1202051373

Client Sample: QC for batch 956738
 Client ID: LCS for batch 956738
 Batch ID: 956739
 Run Date: 02/23/2010 20:30
 Prep Date: 02/23/2010 15:00
 Data File: 7a22011.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		42.8	ug/kg	0.340	1.00
74-87-3	Chloromethane		40.0	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		42.4	ug/kg	0.300	1.00
74-83-9	Bromomethane		45.2	ug/kg	0.300	1.00
75-00-3	Chloroethane		45.0	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		46.7	ug/kg	0.300	1.00
67-64-1	Acetone		180	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		42.8	ug/kg	0.300	1.00
74-88-4	Iodomethane		228	ug/kg	1.60	5.00
75-09-2	Methylene chloride		44.3	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		221	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		43.2	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		46.1	ug/kg	0.300	1.00
78-93-3	2-Butanone		185	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		43.8	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		47.5	ug/kg	0.300	1.00
67-66-3	Chloroform		44.4	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		45.5	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		48.0	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		46.0	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		46.5	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		44.0	ug/kg	0.300	1.00
71-43-2	Benzene		43.7	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		46.9	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		44.6	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		47.3	ug/kg	0.300	1.00
74-95-3	Dibromomethane		47.1	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		214	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		46.8	ug/kg	0.300	1.00
108-88-3	Toluene		43.7	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		46.4	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		43.6	ug/kg	0.300	1.00
591-78-6	2-Hexanone	E	171	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		44.7	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		43.3	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		46.6	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		46.1	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		43.4	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 1202051373
 Client Sample: QC for batch 956738
 Client ID: LCS for batch 956738
 Batch ID: 956739
 Run Date: 02/23/2010 20:30
 Prep Date: 02/23/2010 15:00
 Data File: 7a220ll.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		40.9	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		88.3	ug/kg	0.300	2.00
95-47-6	o-Xylene		45.6	ug/kg	0.300	1.00
100-42-5	Styrene		45.5	ug/kg	0.300	1.00
75-25-2	Bromoform		48.1	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		42.2	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		44.4	ug/kg	0.300	1.00
108-86-1	Bromobenzene		44.8	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		40.3	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		41.9	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		41.3	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		43.7	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		42.0	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		43.7	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		43.8	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		42.6	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		43.8	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		42.8	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		43.6	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		42.2	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		45.5	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		46.7	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		43.9	ug/kg	0.300	1.00

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a22011.d

Lab Smp Id: 1202051373

Client Smp ID: LCS

Inj Date : 23-FEB-2010 20:30

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202051373|956739|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100220-01A/IVM100218-01

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 20

QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

		QUANT SIG			CONCENTRATIONS		
Compounds		MASS	RT	EXP RT REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
M 1	1,3-Dichloropropylene	75			948774	96.3882	96.4
M 2	Xylenes (total)	106			1415361	133.822	134
M 3	1,2-Dichloroethylene (total)	96			937929	86.9760	87.0
4	Dichlorodifluoromethane	85	5.148	5.148 (0.336)	145068	42.8018	42.8
5	Chloromethane	50	5.757	5.757 (0.376)	407415	40.0136	40.0
6	Vinyl chloride	62	6.188	6.188 (0.404)	383759	42.4336	42.4
7	Bromomethane	94	7.419	7.419 (0.484)	233192	45.2253	45.2
8	Chloroethane	64	7.855	7.845 (0.513)	207917	44.9529	45.0
9	Trichlorofluoromethane	101	8.789	8.799 (0.574)	323456	46.7253	46.7
10	Ethyl Ether	59	9.703	9.693 (0.633)	300546	46.6689	46.7
13	Acetone	43	10.413	10.413 (0.680)	1309602	179.619	180
14	1,1-Dichloroethylene	96	10.312	10.312 (0.673)	202678	42.8166	42.8

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Iodomethane	142	10.667	10.667	(0.696)	1884011	228.399	228
17 Acetonitrile	41	11.073	11.073	(0.723)	1412071	1092.87	1090
18 Methyl acetate	43	11.225	11.215	(0.733)	1515915	224.838	225
19 Carbon disulfide	76	10.840	10.840	(0.708)	3681780	221.094	221
22 Methylene chloride	86	11.439	11.439	(0.747)	197074	44.3149	44.3
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	805313	47.8311	47.8
25 trans-1,2-Dichloroethylene	61	12.027	12.017	(0.785)	432179	43.1856	43.2
26 Vinyl acetate	43	12.860	12.860	(0.840)	3603658	217.891	218
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	599753	46.0553	46.0
31 2-Butanone	43	13.723	13.723	(0.896)	1503336	184.874	185
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	505750	43.7904	43.8
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	256806	47.4741	47.5
37 Bromochloromethane	49	14.088	14.088	(0.920)	388736	45.5296	45.5
38 Chloroform	83	14.190	14.190	(0.926)	481265	44.3937	44.4
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	356814	47.9626	48.0
43 Cyclohexane	56	14.586	14.586	(0.952)	534321	44.1847	44.2
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	358264	45.9953	46.0
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	275199	46.4902	46.5
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	457512	48.6492	48.6
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	470981	44.0330	44.0
48 Benzene	78	14.982	14.982	(0.978)	1041235	43.7481	43.7
50 Cyclohexene	67	15.114	15.114	(0.987)	500299	44.6169	44.6
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1088491	50.0000	
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1518591	5364.89	5360
53 Trichloroethylene	95	15.763	15.763	(1.029)	270612	46.9266	46.9
55 Methylcyclohexane	83	16.027	16.027	(1.046)	449698	46.8888	46.9
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	353081	44.5500	44.5
58 Dibromomethane	93	16.180	16.180	(1.056)	201309	47.0891	47.1
59 Bromodichloromethane	83	16.332	16.332	(1.066)	402445	47.3469	47.3
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	670755	217.354	217
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	484898	46.8425	46.8
63 4-Methyl-2-pentanone	58	16.941	16.931	(0.908)	861841	213.855	214
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1232951	46.2606	46.3
65 Toluene	92	17.215	17.215	(0.922)	643664	43.6575	43.6
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	463876	46.4292	46.4
68 1,1,2-Trichloroethane	83	17.601	17.611	(0.943)	242324	43.6236	43.6
69 2-Hexanone	43	17.794	17.794	(0.953)	1902581	170.605	171 (A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	509303	44.7098	44.7
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	176307	43.2716	43.3
72 Dibromochloromethane	129	18.058	18.058	(0.967)	279193	46.5986	46.6
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	277526	46.0657	46.1
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	818888	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	659225	43.4381	43.4
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	244127	46.6808	46.7
78 Ethylbenzene	91	18.758	18.758	(1.005)	1127603	40.9333	40.9
79 m,p-Xylenes	106	18.870	18.870	(1.011)	914962	88.2581	88.2
80 o-Xylene	106	19.286	19.286	(1.033)	500399	45.5644	45.6

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/l)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
81 Styrene	104	19.286	19.286	(1.033)	799756	45.4750	45.5
82 Bromoform	173	19.540	19.540	(0.931)	188730	48.1105	48.1
83 Isopropylbenzene	105	19.631	19.631	(0.935)	1094332	41.3155	41.3
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	521056	48.3807	48.4
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	391334	42.2358	42.2
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	89525	44.4066	44.4
90 Bromobenzene	156	20.017	20.017	(0.954)	277639	44.7675	44.8
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1356830	40.2927	40.3
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	955422	43.6527	43.6
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	966528	41.9227	41.9
94 4-Chlorotoluene	91	20.271	20.261	(0.966)	869523	42.0157	42.0
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	867218	43.7391	43.7
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	969209	43.7553	43.8
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1245240	42.6488	42.6
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	924907	43.8264	43.8
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	518015	42.7557	42.8
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	409430	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	515331	43.5604	43.6
104 n-Butylbenzene	91	21.296	21.296	(1.014)	1032147	42.2177	42.2
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	534053	43.8830	43.9
107 1,2-Dibromo-3-chloropropane	157	22.291	22.301	(1.062)	69533	45.4879	45.5
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	326516	42.8255	42.8
109 Hexachlorobutadiene	225	23.530	23.529	(1.121)	172448	42.1265	42.1
110 Naphthalene	128	23.743	23.743	(1.131)	828480	43.2756	43.3
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	308505	43.7695	43.8

QC Flag Legend

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

Data File: /chem/V007.1/022310v7/7a22011.d

Date: 23-FEB-2010 20:30

Client ID: LCS

Sample Info: 112020513731956739.1.V007.1.1

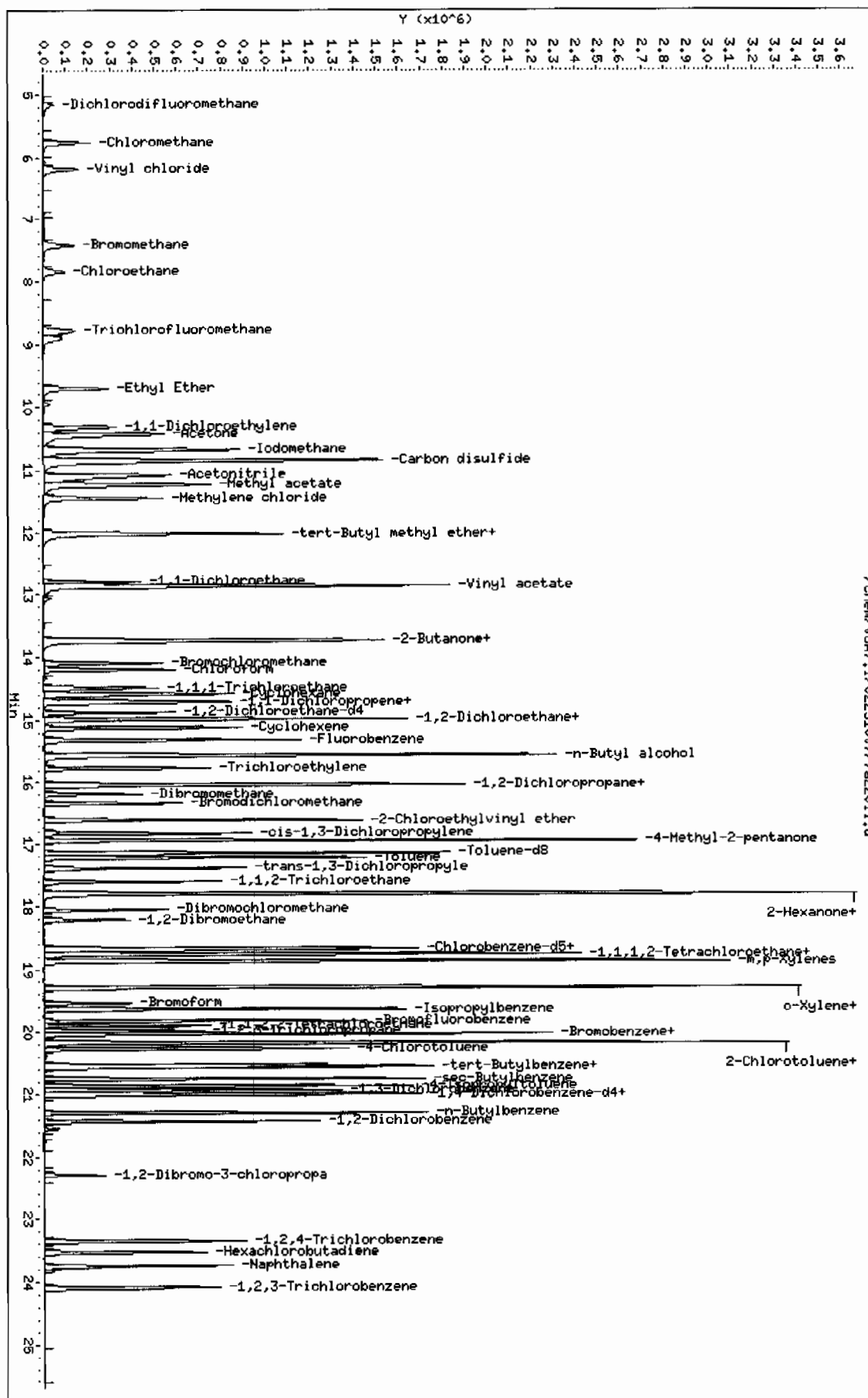
Column phase: DB-624

Instrument: V007.1

Operator: ANXI

Column diameter: 0.25

/chem/V007.1/022310v7/7a22011.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905

Matrix: SOIL

Lab Sample ID: 1202065432

Client Sample: QC for batch 956738

Client: LANL010

Project: QC

Client ID: LCS for batch 956738

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 956739

Inst: VOA7.I

Dilution: 1

Run Date: 02/24/2010 11:59

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 02/24/2010 10:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7a304ll.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		44.1	ug/kg	0.340	1.00
74-87-3	Chloromethane		39.5	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		43.1	ug/kg	0.300	1.00
74-83-9	Bromomethane		45.9	ug/kg	0.300	1.00
75-00-3	Chloroethane		46.6	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		48.5	ug/kg	0.300	1.00
67-64-1	Acetone		199	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		45.4	ug/kg	0.300	1.00
74-88-4	Iodomethane		233	ug/kg	1.60	5.00
75-09-2	Methylene chloride		45.2	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		225	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		44.2	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		46.3	ug/kg	0.300	1.00
78-93-3	2-Butanone		199	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		44.4	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		49.5	ug/kg	0.300	1.00
67-66-3	Chloroform		45.5	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		46.6	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		49.5	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		47.0	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		49.0	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		45.4	ug/kg	0.300	1.00
71-43-2	Benzene		44.6	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		47.0	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		44.9	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		47.9	ug/kg	0.300	1.00
74-95-3	Dibromomethane		48.9	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		226	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		49.1	ug/kg	0.300	1.00
108-88-3	Toluene		43.4	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		47.4	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		44.5	ug/kg	0.300	1.00
591-78-6	2-Hexanone	E	180	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		45.2	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		42.8	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		48.2	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		47.2	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		44.0	ug/kg	0.300	1.00

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
 Lab Sample ID: 1202065432
 Client Sample: QC for batch 956738
 Client ID: LCS for batch 956738
 Batch ID: 956739
 Run Date: 02/24/2010 11:59
 Prep Date: 02/24/2010 10:00
 Data File: 7a304ll.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		40.9	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		88.5	ug/kg	0.300	2.00
95-47-6	o-Xylene		45.2	ug/kg	0.300	1.00
100-42-5	Styrene		45.7	ug/kg	0.300	1.00
75-25-2	Bromoform		49.8	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		44.2	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		45.6	ug/kg	0.300	1.00
108-86-1	Bromobenzene		45.2	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		40.5	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		42.0	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		41.3	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		43.6	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		42.5	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		44.0	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		43.2	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		42.9	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		44.5	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		42.9	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		43.5	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		43.5	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		48.9	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		46.8	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		44.7	ug/kg	0.300	1.00

Data File: /chem/VOA7.i/022410v7/7a30411.d
 Report Date: 08-Mar-2010 14:54

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a30411.d

Lab Smp Id: 1202065432

Client Smp ID: LCS

Inj Date : 24-FEB-2010 11:59

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202065432|956739|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100220-01A/IVM100218-01

Comment :

Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m

Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d

Als bottle: 4 QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

		QUANT S1G				CONCENTRATIONS	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN
		=====	==	=====	=====	=====	FINAL
M 1	1,3-Dichloropropylene	75				938735	100.917
M 2	Xylenes (total)	106				1367525	133.665
M 3	1,2-Dichloroethylene (total)	96				901915	88.5341
4	Dichlorodifluoromethane	85	5.147	5.148	(0.336)	141250	44.1001
5	Chloromethane	50	5.757	5.757	(0.376)	380431	39.5374
6	Vinyl chloride	62	6.187	6.188	(0.404)	368063	43.0660
7	Bromomethane	94	7.418	7.418	(0.484)	223630	45.8944
8	Chloroethane	64	7.845	7.845	(0.512)	203860	46.6403
9	Trichlorofluoromethane	101	8.789	8.789	(0.574)	317290	48.5015
10	Ethyl Ether	59	9.703	9.703	(0.633)	291271	47.8603
13	Acetone	43	10.423	10.413	(0.681)	1369283	198.732
14	1,1-Dichloroethylene	96	10.312	10.312	(0.673)	202891	45.3555

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
16 Iodomethane	142	10.667	10.667	(0.696)	1817027	233.095	233
17 Acetonitrile	41	11.073	11.073	(0.723)	1429480	1170.72	1170
18 Methyl acetate	43	11.225	11.225	(0.733)	1533090	240.616	241
19 Carbon disulfide	76	10.840	10.840	(0.708)	3535887	224.687	225
22 Methylene chloride	86	11.449	11.449	(0.747)	190141	45.2437	45.2
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	791408	49.7402	49.7
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	417807	44.1786	44.2
26 Vinyl acetate	43	12.860	12.860	(0.840)	3785350	242.194	242
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	569340	46.2636	46.3
31 2-Butanone	43	13.723	13.723	(0.896)	1530493	199.164	199
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	484108	44.3555	44.4
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	253292	49.5489	49.5
37 Bromochloromethane	49	14.088	14.088	(0.920)	376263	46.6329	46.6
38 Chloroform	83	14.190	14.190	(0.926)	465651	45.4526	45.4
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	347659	49.4511	49.4
43 Cyclohexane	56	14.586	14.586	(0.952)	517834	45.3129	45.3
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	345612	46.9527	47.0
45 Carbon tetrachloride	117	14.728	14.718	(0.962)	273897	48.9624	49.0
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	454638	51.1564	51.2
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	458825	45.3924	45.4
48 Benzene	78	14.982	14.982	(0.978)	1003300	44.6070	44.6
50 Cyclohexene	67	15.124	15.114	(0.987)	493661	46.5865	46.6
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1028640	50.0000	
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1569286	5866.56	5870
53 Trichloroethylene	95	15.763	15.763	(1.029)	256321	47.0346	47.0
55 Methylcyclohexane	83	16.027	16.027	(1.046)	441629	48.7267	48.7
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	336489	44.9268	44.9
58 Dibromomethane	93	16.179	16.180	(1.056)	197695	48.9344	48.9
59 Bromodichloromethane	83	16.332	16.332	(1.066)	385057	47.9371	47.9
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	586276	201.033	201
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	480364	49.1046	49.1
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	882626	226.375	226
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1190590	46.1728	46.2
65 Toluene	92	17.215	17.215	(0.922)	619527	43.4329	43.4
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	458371	47.4203	47.4
68 1,1,2-Trichloroethane	83	17.601	17.601	(0.943)	239084	44.4871	44.5
69 2-Hexanone	43	17.794	17.794	(0.953)	1945186	180.289	180 (A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	498450	45.2279	45.2
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	168773	42.8149	42.8
72 Dibromochloromethane	129	18.058	18.058	(0.967)	279609	48.2367	48.2
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	275030	47.1859	47.2
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	792257	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	646403	44.0249	44.0
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	236556	46.7536	46.8
78 Ethylbenzene	91	18.758	18.758	(1.005)	1090473	40.9161	40.9
79 m,p-Xylenes	106	18.870	18.870	(1.011)	887436	88.4804	88.5
80 o-Xylene	106	19.286	19.286	(1.033)	480089	45.1844	45.2

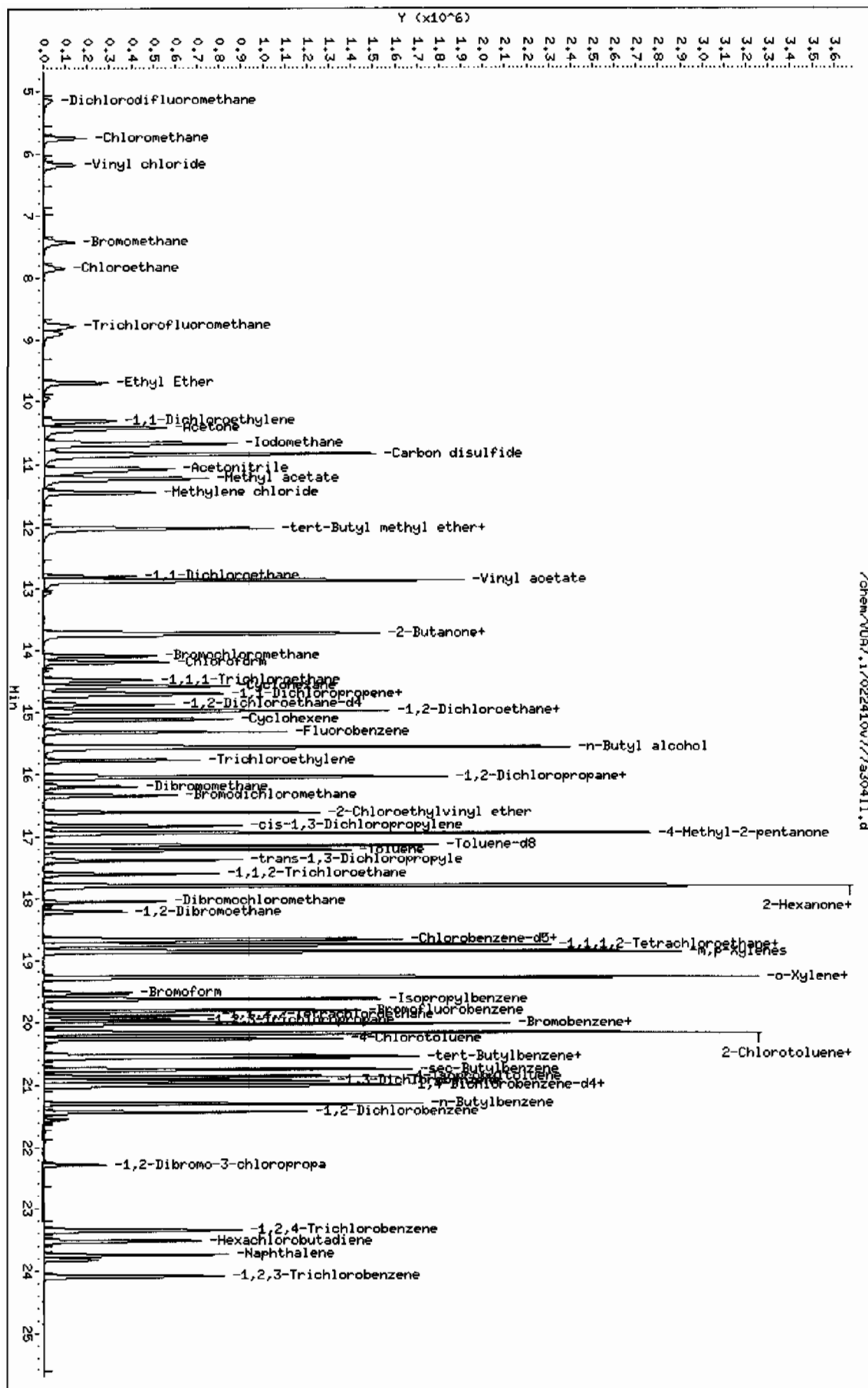
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
81 Styrene	104	19.286	19.286	(1.033)	777259	45.6814	45.7
82 Bromoform	173	19.540	19.540	(0.931)	189348	49.7954	49.8
83 Isopropylbenzene	105	19.631	19.631	(0.935)	1060497	41.3050	41.3
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	509487	48.8034	48.8
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	397249	44.2308	44.2
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	89018	45.5523	45.6
90 Bromobenzene	156	20.017	20.017	(0.954)	271611	45.1813	45.2
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1323463	40.5454	40.5
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	925230	43.6109	43.6
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	938172	41.9804	42.0
94 4-Chlorotoluene	91	20.261	20.261	(0.965)	852394	42.4913	42.5
95 tert-Butylbenzene	119	20.524	20.525	(0.978)	845095	43.9720	44.0
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	927435	43.1942	43.2
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1213437	42.8746	42.9
99 4-Isopropyltoluene	119	20.859	20.860	(0.994)	909732	44.4713	44.5
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	503636	42.8842	42.9
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	396872	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	498701	43.4885	43.5
104 n-Butylbenzene	91	21.296	21.296	(1.014)	1030893	43.5006	43.5
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	526978	44.6719	44.7
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	72566	48.8937	48.9
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	334398	45.2471	45.2
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	166715	42.0147	42.0
110 Naphthalene	128	23.743	23.743	(1.131)	847848	45.6887	45.7
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	317048	46.4049	46.4

QC Flag Legend

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

Data File: /chem/V007.i/022410v7/7a30411.d
 Date : 24-FEB-2010 11:59
 Client ID: LCS
 Sample Info: 11202065432195673911.V007111
 Column phase: DB-624

Instrument: V007.i
 Operator: RXD1
 Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905

Matrix: SOIL

Lab Sample ID: 1202051374

Client Sample: QC for batch 956738

Client: LANL010

Project: QC

Client ID: LCS for batch 956738

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 956739

Inst: VOA7.1

Dilution: 1

Run Date: 02/23/2010 21:37

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 02/23/2010 15:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7a22211.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905

Matrix: SOIL

Lab Sample ID: 1202051374

Client Sample: QC for batch 956738

Client: LANL010

Project: QC

Client ID: LCS for batch 956738

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 956739

Inst: VOA7.I

Dilution: 1

Run Date: 02/23/2010 21:37

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 02/23/2010 15:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7a222ll.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		235	ug/kg	1.60	5.00
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Data File: /chem/VOA7.i/022310v7/7a22211.d
Report Date: 10-Mar-2010 13:19

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a22211.d
Lab Smp Id: 1202051374 Client Smp ID: SLCS
Inj Date : 23-FEB-2010 21:37
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202051374|956739|1|VOAF|1|
Misc Info : GEL 5g N/A UVM091216-08B/UVM100125-08D
Comment :
Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m
Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 22 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ug/l)	FINAL (ug/Kg)
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	307716	127.980
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.603	(0.431)	695596	145.686
11 Acrolein	56	10.017	10.017	(0.654)	339067	311.712
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	464750	235.126
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1882927	2559.18
20 Allyl chloride	41	11.185	11.185	(0.730)	2222012	207.028
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	2721113	2558.94
23 Acrylonitrile	53	11.926	11.926	(0.779)	712032	233.786
27 Isopropyl ether	45	12.901	12.900	(0.842)	1356078	46.9674
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	406606	44.0454
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	1022153	51.8280
32 Ethyl acetate	43	13.804	13.804	(0.901)	1800079	196.594

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
35 Propionitrile	54	13.804	13.804	(0.901)	282825	211.639	212
36 Methacrylonitrile	41	14.038	14.037	(0.916)	1141911	205.762	206
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	645666	194.314	194
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	889282	2194.08	2190
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	483916	49.5129	49.5
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	810647	53.4956	53.5
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1131225	50.0000	
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1106710	225.592	226
57 1,4-Dioxane	88	16.159	16.159	(1.055)	171308	2323.32	2320
60 2-Nitropropane	43	16.555	16.555	(1.081)	751077	236.536	236
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1278316	49.5506	49.6
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1983756	218.624	219
74 1-Chlorohexane	55	18.575	18.575	(1.213)	363136	50.2592	50.2
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	792646	50.0000	
84 cis-1,4-Dichloro-2-butene	53	19.662	19.661	(0.937)	736785	238.930	239
85 Cyclohexanone	55	19.773	19.773	(1.059)	614241	1370.97	1370 (A)
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	502593	48.2052	48.2
88 trans-1,4-Dichloro-2-butene	53	19.926	19.925	(0.949)	670091	240.783	241
97 Pentachloroethane	167	20.596	20.595	(0.981)	463673	207.596	208
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	396360	50.0000	
103 Benzyl chloride	91	21.124	21.123	(1.006)	2497418	254.264	254
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1160983	209.370	209

QC Flag Legend

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

Data File: /chem/V007.i/022310v7/7a22211.d

Date : 23-FEB-2010 21:37

Client ID: SLCS

Sample Info: 112020513741956739141V00711

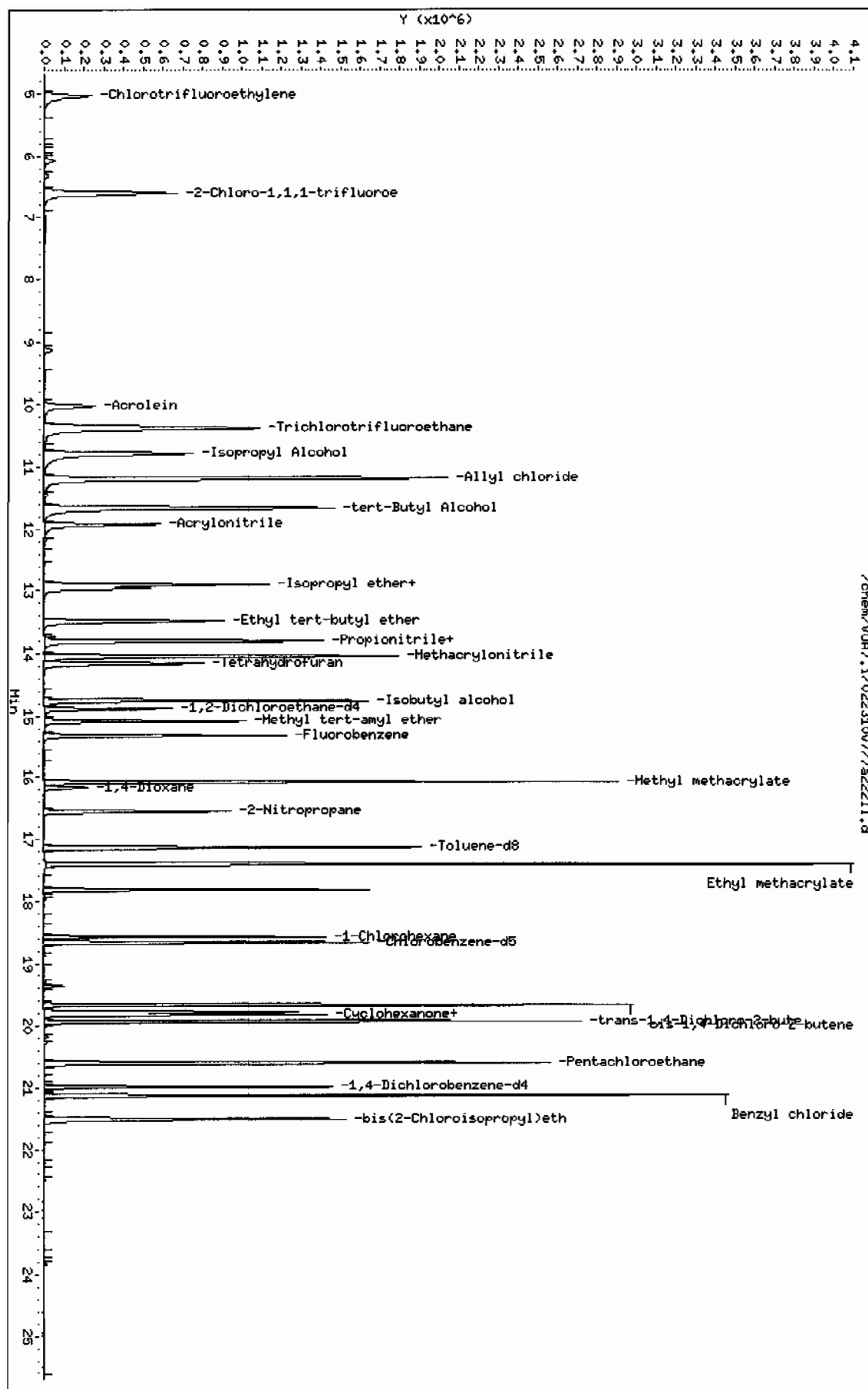
Column phase: DB-624

Instrument: V007.i

Operator: AX01

Column diameter: 0.25

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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905

Matrix: SOIL

Lab Sample ID: 1202065433

Client Sample: QC for batch 956738

Client: LANL010

Project: QC

Client ID: LCS for batch 956738

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 956739

Inst: VOA7.I

Dilution: 1

Run Date: 02/24/2010 13:07

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 02/24/2010 10:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7a306ll.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
 Lab Sample ID: 1202065433
 Client Sample: QC for batch 956738
 Client ID: LCS for batch 956738
 Batch ID: 956739
 Run Date: 02/24/2010 13:07
 Prep Date: 02/24/2010 10:00
 Data File: 7a306ll.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		258	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Data File: /chem/VOA7.i/022410v7/7a30611.d
Report Date: 08-Mar-2010 14:54

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022410v7/7a30611.d
Lab Smp Id: 1202065433 Client Smp ID: SLCS
Inj Date : 24-FEB-2010 13:07
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202065433|956739|1|VOAF|1|
Misc Info : GEL 5g N/A UVM091216-08B/UVM100125-08D
Comment :
Method : /chem/VOA7.i/022410v7/VOA7-8260B-021710.m
Meth Date : 08-Mar-2010 14:52 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
147 Chlorotrifluoroethylene	116		5.029	5.029	(0.328)	302310	128.526	128
148 2-Chloro-1,1,1-trifluoroethane	118		6.603	6.604	(0.431)	686713	147.022	147
11 Acrolein	56		10.017	10.017	(0.654)	361442	339.667	340
12 Trichlorotrifluoroethane	85		10.373	10.373	(0.677)	499080	258.106	258
15 Isopropyl Alcohol	45		10.779	10.779	(0.704)	1812092	2517.64	2520
20 Allyl chloride	41		11.185	11.185	(0.730)	2418092	230.304	230
21 tert-Butyl Alcohol	59		11.662	11.662	(0.761)	2599426	2498.83	2500
23 Acrylonitrile	53		11.926	11.926	(0.779)	790690	265.382	265
27 Isopropyl ether	45		12.900	12.901	(0.842)	1353639	47.9249	47.9
29 2-Chloro-1,3-butadiene	53		12.961	12.961	(0.846)	498483	55.1979	55.2
30 Ethyl tert-butyl ether	59		13.489	13.489	(0.881)	1035865	53.6905	53.7
32 Ethyl acetate	43		13.804	13.794	(0.901)	1938704	216.440	216

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
35 Propionitrile	54	13.804	13.804	(0.901)	320304	245.011	245
36 Methacrylonitrile	41	14.037	14.038	(0.916)	1260115	232.107	232
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	718404	215.020	215
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	923246	2328.50	2330
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	486229	50.8552	50.8
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	827541	55.8241	55.8
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	1106631	50.0000	
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1244260	259.267	259
57 1,4-Dioxane	88	16.159	16.159	(1.055)	190527	2641.40	2640
60 2-Nitropropane	43	16.555	16.555	(1.081)	842606	271.258	271
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1271411	49.4816	49.5
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	2216002	245.203	245
74 1-Chlorohexane	55	18.575	18.575	(1.213)	367100	51.9370	51.9
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	789464	50.0000	
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	835623	269.499	269
85 Cyclohexanone	55	19.773	19.773	(1.059)	1144949	2565.81	2560 (AR)
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	506774	48.3401	48.3
88 trans-1,4-Dichloro-2-butene	53	19.925	19.926	(0.949)	748465	267.472	267
97 Pentachloroethane	167	20.595	20.596	(0.981)	789380	351.487	351 (A)
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	398542	50.0000	
103 Benzyl chloride	91	21.123	21.124	(1.006)	3029401	306.737	307
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1273522	228.407	228

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/V007.1/022410v7/7a30611.d

Date : 24-FEB-2010 13:07

Client ID: SLCS

Sample Info: 11202065433195673911/V007.11

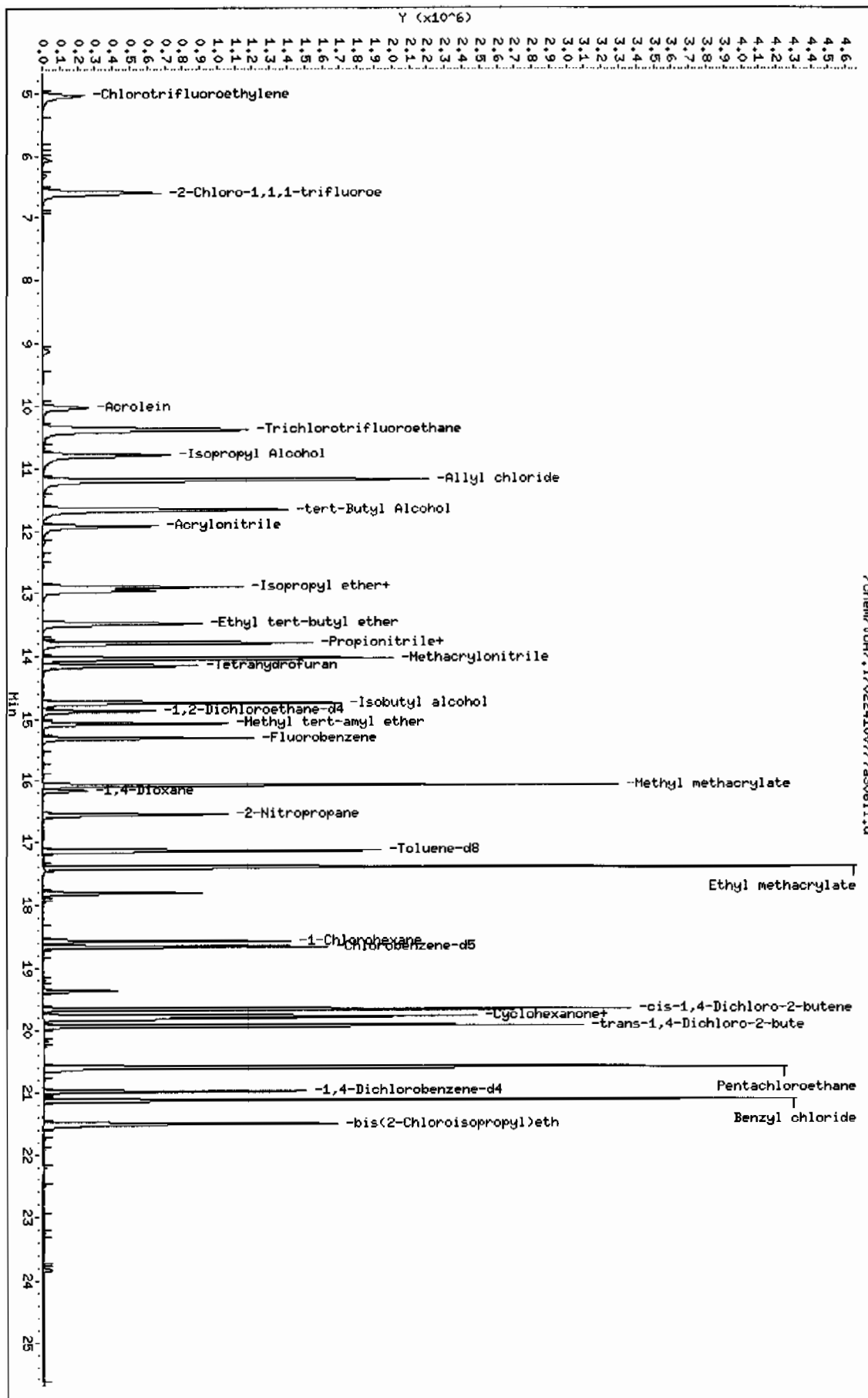
Column phase: DB-624

Instrument: V007.1

Operator: AK01

Column diameter: 0.25

Page 1



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 1202051371	Date Received: 02/18/2010 08:45	%Moisture: 10.5
Client Sample: QC for batch 956738	Client: LANL010	Project: QC
Client ID: RE15-10-8346PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.1	Dilution: 1
Run Date: 02/24/2010 06:17	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:40	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a237.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		44.0	ug/kg	0.380	1.12
74-87-3	Chloromethane		45.2	ug/kg	0.335	1.12
75-01-4	Vinyl chloride		49.8	ug/kg	0.335	1.12
74-83-9	Bromomethane		45.8	ug/kg	0.335	1.12
75-00-3	Chloroethane		46.3	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane		44.0	ug/kg	0.335	1.12
67-64-1	Acetone		212	ug/kg	1.86	5.59
75-35-4	1,1-Dichloroethylene		45.2	ug/kg	0.335	1.12
74-88-4	Iodomethane		221	ug/kg	1.79	5.59
75-09-2	Methylene chloride		48.2	ug/kg	2.24	5.59
75-15-0	Carbon disulfide		195	ug/kg	1.40	5.59
156-60-5	trans-1,2-Dichloroethylene		44.1	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane		46.9	ug/kg	0.335	1.12
78-93-3	2-Butanone		202	ug/kg	1.68	5.59
156-59-2	cis-1,2-Dichloroethylene		45.7	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane		41.6	ug/kg	0.335	1.12
67-66-3	Chloroform		45.9	ug/kg	0.335	1.12
74-97-5	Bromochloromethane		48.8	ug/kg	0.369	1.12
71-55-6	1,1,1-Trichloroethane		44.5	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene		43.4	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride		43.4	ug/kg	0.335	1.12
107-06-2	1,2-Dichloroethane		47.5	ug/kg	0.335	1.12
71-43-2	Benzene		46.1	ug/kg	0.335	1.12
79-01-6	Trichloroethylene		78.8	ug/kg	0.369	1.12
78-87-5	1,2-Dichloropropane		48.3	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane		47.0	ug/kg	0.335	1.12
74-95-3	Dibromomethane		47.4	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone		229	ug/kg	1.40	5.59
10061-01-5	cis-1,3-Dichloropropylene		44.7	ug/kg	0.335	1.12
108-88-3	Toluene		42.7	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene		41.7	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane		44.4	ug/kg	0.335	1.12
591-78-6	2-Hexanone	E	192	ug/kg	1.68	5.59
142-28-9	1,3-Dichloropropane		47.8	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene		40.8	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane		45.0	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane		45.8	ug/kg	0.335	1.12
108-90-7	Chlorobenzene		41.7	ug/kg	0.335	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 1202051371	Date Received: 02/18/2010 08:45	%Moisture: 10.5
Client Sample: QC for batch 956738	Client: LANL010	Project: QC
Client ID: RE15-10-8346PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 06:17	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:40	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a237.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		39.8	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes		83.7	ug/kg	0.335	2.24
95-47-6	o-Xylene		43.0	ug/kg	0.335	1.12
100-42-5	Styrene		41.7	ug/kg	0.335	1.12
75-25-2	Bromoform		45.4	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	J	0.848	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane		42.7	ug/kg	0.335	1.12
108-86-1	Bromobenzene		39.2	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene		35.8	ug/kg	0.335	1.12
95-49-8	2-Chlorotoluene		37.2	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene		38.1	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene		37.4	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene		35.0	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene		37.2	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene		36.7	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene		34.6	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene		35.0	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene		33.8	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene		34.2	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene		30.8	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane		42.1	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.59	ug/kg	1.79	5.59
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		45.8	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene		34.0	ug/kg	0.335	1.12

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a237.d

Lab Smp Id: 1202051371

Client Smp ID: RE15-10-8346MS

Inj Date : 24-FEB-2010 06:17

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202051371|956739|1|VOAF|1|

Misc Info : LANL 5g N/A MS 247332002

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 37

QC Sample: MS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	10.53080	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ug/l)	(ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	819911	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	618022	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	310119	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	339742	47.9601	53.6
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	957753	47.6145	53.2
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	379547	46.5269	52.0
4 Dichlorodifluoromethane	85	5.148	5.148	(0.336)	100426	39.3364	44.0
5 Chloromethane	50	5.757	5.757	(0.376)	309941	40.4118	45.2
6 Vinyl chloride	62	6.188	6.188	(0.404)	303333	44.5275	49.8
7 Bromomethane	94	7.429	7.419	(0.485)	159232	40.9974	45.8
8 Chloroethane	64	7.845	7.845	(0.512)	144169	41.3807	46.2
9 Trichlorofluoromethane	101	8.789	8.799	(0.574)	205138	39.3406	44.0

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Acetone	43	10.424	10.413	(0.681)	1042482	189.819	212
14 1,1-Dichloroethylene	96	10.312	10.312	(0.673)	144199	40.4414	45.2
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	273987	30.5764	34.2
16 Iodomethane	142	10.667	10.667	(0.696)	1230106	197.975	221
22 Methylene chloride	86	11.449	11.439	(0.747)	144382	43.1015	48.2
19 Carbon disulfide	76	10.840	10.840	(0.708)	2186350	174.300	195
25 trans-1,2-Dichloroethylene	61	12.027	12.017	(0.785)	297701	39.4924	44.1
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	411936	41.9947	46.9
31 2-Butanone	43	13.723	13.723	(0.896)	1109620	181.155	202
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	356060	40.9284	45.7
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	277665	30.2569	33.8
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	151666	37.2218	41.6
38 Chloroform	83	14.190	14.190	(0.926)	335269	41.0571	45.9
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	280543	30.4343	34.0
37 Bromochloromethane	49	14.088	14.088	(0.920)	281014	43.6943	48.8
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	223253	39.8397	44.5
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	227932	38.8485	43.4
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	173096	38.8204	43.4
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	342257	42.4801	47.5
48 Benzene	78	14.982	14.982	(0.978)	738989	41.2199	46.1
53 Trichloroethylene	95	15.763	15.763	(1.029)	306101	70.4684	78.8 (R)
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	257828	43.1878	48.3
59 Bromodichloromethane	83	16.332	16.332	(1.066)	269006	42.0151	47.0
58 Dibromomethane	93	16.180	16.180	(1.056)	136447	42.3720	47.4
63 4-Methyl-2-pentanone	58	16.941	16.931	(0.908)	622244	204.585	229
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	311924	40.0034	44.7
65 Toluene	92	17.215	17.215	(0.922)	425419	38.2329	42.7
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	281007	37.2672	41.6
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	166425	39.6976	44.4
69 2-Hexanone	43	17.794	17.794	(0.953)	1443794	171.544	192 (A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	367466	42.7430	47.8
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	112135	36.4666	40.8
72 Dibromochloromethane	129	18.058	18.058	(0.967)	182024	40.2548	45.0
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	186287	40.9711	45.8
76 Chlorobenzene	112	18.697	18.697	(1.002)	427208	37.2990	41.7
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	161812	40.9971	45.8
78 Ethylbenzene	91	18.758	18.758	(1.005)	740800	35.6322	39.8
79 m,p-Xylenes	106	18.870	18.870	(1.011)	585625	74.8500	83.7
80 o-Xylene	106	19.286	19.286	(1.033)	318666	38.4472	43.0
81 Styrene	104	19.286	19.286	(1.033)	495579	37.3378	41.7
82 Bromoform	173	19.540	19.540	(0.931)	120612	40.5920	45.4
87 1,1,2,2-Tetrachloroethane	83	19.966	19.885	(0.951)	5327	0.75904	0.85 (aR)
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	58393	38.2398	42.7
90 Bromobenzene	156	20.017	20.017	(0.954)	164608	35.0416	39.2
91 n-Propylbenzene	91	20.027	20.027	(0.954)	816646	32.0174	35.8
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	581203	33.2824	37.2
83 Isopropylbenzene	105	19.631	19.631	(0.935)	684437	34.1153	38.1

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	553993	33.4173	37.4
94 4-Chlorotoluene	91	20.271	20.261	(0.966)	490766	31.3081	35.0
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	499258	33.2444	37.2
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	550370	32.8034	36.7
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	684388	30.9462	34.6
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	500479	31.3094	35.0
104 n-Butylbenzene	91	21.296	21.296	(1.014)	510126	27.5475	30.8
107 1,2-Dibromo-3-chloropropane	157	22.291	22.301	(1.062)	43413	37.6799	42.1

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.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/V007.i/022310v7/7a237.d
 Date: 24-FEB-2010 06:17
 Client ID: RE15-10-8346HS
 Sample Info: 11202051371/956739111/V007.11

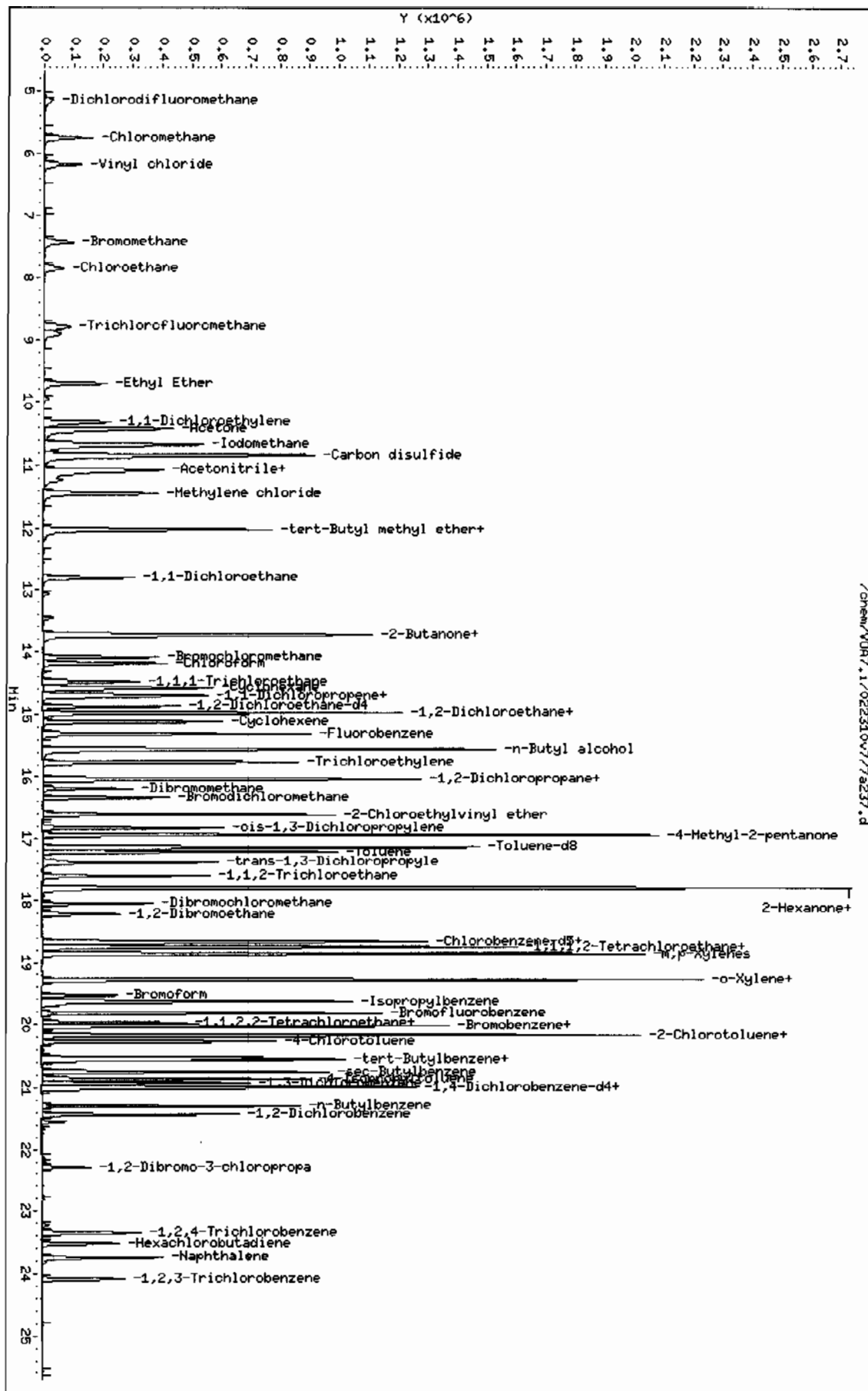
Column phase: DB-624

Instrument: V007.i

Operator: AX01

Column diameter: 0.25

/chem/V007.i/022310v7/7a237.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 1202051372	Date Received: 02/18/2010 08:45	%Moisture: 10.5
Client Sample: QC for batch 956738	Client: LANL010	Project: QC
Client ID: RE15-10-8346PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 06:51	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:42	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a238.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		32.4	ug/kg	0.380	1.12
74-87-3	Chloromethane		29.7	ug/kg	0.335	1.12
75-01-4	Vinyl chloride		32.0	ug/kg	0.335	1.12
74-83-9	Bromomethane		30.9	ug/kg	0.335	1.12
75-00-3	Chloroethane		32.5	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane		31.8	ug/kg	0.335	1.12
67-64-1	Acetone		233	ug/kg	1.86	5.59
75-35-4	1,1-Dichloroethylene		32.4	ug/kg	0.335	1.12
74-88-4	Iodomethane		156	ug/kg	1.79	5.59
75-09-2	Methylene chloride		36.6	ug/kg	2.24	5.59
75-15-0	Carbon disulfide		119	ug/kg	1.40	5.59
156-60-5	trans-1,2-Dichloroethylene		32.5	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane		36.0	ug/kg	0.335	1.12
78-93-3	2-Butanone		217	ug/kg	1.68	5.59
156-59-2	cis-1,2-Dichloroethylene		35.9	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane		32.3	ug/kg	0.335	1.12
67-66-3	Chloroform		35.4	ug/kg	0.335	1.12
74-97-5	Bromochloromethane		40.9	ug/kg	0.369	1.12
71-55-6	1,1,1-Trichloroethane		35.0	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene		31.9	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride		31.6	ug/kg	0.335	1.12
107-06-2	1,2-Dichloroethane		41.9	ug/kg	0.335	1.12
71-43-2	Benzene		35.4	ug/kg	0.335	1.12
79-01-6	Trichloroethylene		62.5	ug/kg	0.369	1.12
78-87-5	1,2-Dichloropropane		40.2	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane		38.7	ug/kg	0.335	1.12
74-95-3	Dibromomethane		42.6	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone		241	ug/kg	1.40	5.59
10061-01-5	cis-1,3-Dichloropropylene		37.3	ug/kg	0.335	1.12
108-88-3	Toluene		33.2	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene		35.6	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane		37.1	ug/kg	0.335	1.12
591-78-6	2-Hexanone	E	202	ug/kg	1.68	5.59
142-28-9	1,3-Dichloropropane		42.3	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene		30.9	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane		39.6	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane		43.5	ug/kg	0.335	1.12
108-90-7	Chlorobenzene		34.6	ug/kg	0.335	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 1202051372	Date Received: 02/18/2010 08:45	%Moisture: 10.5
Client Sample: QC for batch 956738	Client: LANL010	Project: QC
Client ID: RE15-10-8346PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 956739	Inst: VOA7.I	Dilution: 1
Run Date: 02/24/2010 06:51	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/23/2010 15:42	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7a238.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		32.8	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes		67.3	ug/kg	0.335	2.24
95-47-6	o-Xylene		35.5	ug/kg	0.335	1.12
100-42-5	Styrene		34.3	ug/kg	0.335	1.12
75-25-2	Bromoform		44.4	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	J	0.876	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane		43.9	ug/kg	0.335	1.12
108-86-1	Bromobenzene		36.0	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene		30.5	ug/kg	0.335	1.12
95-49-8	2-Chlorotoluene		31.7	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene		32.2	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene		31.2	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene		30.6	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene		32.3	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene		31.7	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene		28.4	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene		29.9	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene		29.9	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene		30.0	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene		26.8	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane		39.9	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.59	ug/kg	1.79	5.59
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		37.8	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene		31.7	ug/kg	0.335	1.12

Data File: /chem/VOA7.i/022310v7/7a238.d
Report Date: 10-Mar-2010 12:36

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/022310v7/7a238.d

Lab Smp Id: 1202051372

Client Smp ID: RE15-10-8346MSD

Inj Date : 24-FEB-2010 06:51

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202051372|956739|1|VOAF|1|

Misc Info : LANL 5g N/A MSD 247332002

Comment :

Method : /chem/VOA7.i/022310v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 13:19 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 38

QC Sample: MSD

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1905.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	10.53080	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ug/l)	(ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	559543	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	423884	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	207503	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	238697	49.3755	55.2
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	648260	46.9886	52.5
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	257907	47.2504	52.8
4 Dichlorodifluoromethane	85	5.148	5.148	(0.336)	50562	29.0205	32.4
5 Chloromethane	50	5.757	5.757	(0.376)	139204	26.5958	29.7
6 Vinyl chloride	62	6.173	6.188	(0.403)	132960	28.5998	32.0
7 Bromomethane	94	7.418	7.419	(0.484)	73241	27.6321	30.9
8 Chloroethane	64	7.845	7.845	(0.512)	69203	29.1061	32.5
9 Trichlorofluoromethane	101	8.789	8.799	(0.574)	101184	28.4342	31.8

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
13 Acetone	43	10.423	10.413	(0.681)	779665	208.024	232
14 1,1-Dichloroethylene	96	10.302	10.312	(0.673)	70551	28.9935	32.4
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	161144	26.8766	30.0
16 Iodomethane	142	10.667	10.667	(0.696)	592328	139.690	156
22 Methylene chloride	86	11.439	11.439	(0.747)	74780	32.7113	36.6
19 Carbon disulfide	76	10.840	10.840	(0.708)	914071	106.780	119(R)
25 trans-1,2-Dichloroethylene	61	12.027	12.017	(0.785)	149742	29.1079	32.5
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	215539	32.1976	36.0
31 2-Butanone	43	13.723	13.723	(0.896)	811787	194.201	217
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	190656	32.1133	35.9
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	164199	26.7410	29.9
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	80433	28.9252	32.3
38 Chloroform	83	14.190	14.190	(0.926)	176386	31.6514	35.4
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	174667	28.3190	31.6
37 Bromochloromethane	49	14.088	14.088	(0.920)	160565	36.5832	40.9
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	119683	31.2957	35.0
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	114418	28.5757	31.9(R)
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	86120	28.3015	31.6
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	206360	37.5311	41.9
48 Benzene	78	14.982	14.982	(0.978)	387444	31.6673	35.4
53 Trichloroethylene	95	15.763	15.763	(1.029)	165707	55.8990	62.5
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	146593	35.9814	40.2
59 Bromodichloromethane	83	16.332	16.332	(1.066)	151353	34.6392	38.7
58 Dibromomethane	93	16.180	16.180	(1.056)	83812	38.1377	42.6
63 4-Methyl-2-pentanone	58	16.941	16.931	(0.908)	449699	215.572	241
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	177394	33.3365	37.3
65 Toluene	92	17.215	17.215	(0.922)	226488	29.6772	33.2
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	164609	31.8288	35.6
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	95470	33.2024	37.1
69 2-Hexanone	43	17.804	17.794	(0.954)	1045305	181.080	202(A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	223329	37.8747	42.3
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	58352	27.6673	30.9
72 Dibromochloromethane	129	18.058	18.058	(0.967)	109761	35.3911	39.6
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	121436	38.9403	43.5
76 Chlorobenzene	112	18.697	18.697	(1.002)	242887	30.9185	34.6
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	91463	33.7867	37.8
78 Ethylbenzene	91	18.768	18.758	(1.005)	418338	29.3377	32.8
79 m,p-Xylenes	106	18.870	18.870	(1.011)	323050	60.2003	67.3
80 o-Xylene	106	19.286	19.286	(1.033)	180483	31.7485	35.5
81 Styrene	104	19.286	19.286	(1.033)	279683	30.7226	34.3
82 Bromoform	173	19.540	19.540	(0.931)	79018	39.7448	44.4
87 1,1,2,2-Tetrachloroethane	83	19.976	19.885	(0.952)	3679	0.78346	0.88(aR)
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	40099	39.2457	43.9
90 Bromobenzene	156	20.017	20.017	(0.954)	101342	32.2424	36.0
91 n-Propylbenzene	91	20.027	20.027	(0.954)	465628	27.2832	30.5
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	330888	28.3186	31.6
83 Isopropylbenzene	105	19.631	19.631	(0.935)	386243	28.7727	32.2

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	309672	27.9173	31.2
94 4-Chlorotoluene	91	20.271	20.261	(0.966)	286992	27.3625	30.6
95 tert-Butylbenzene	119	20.535	20.525	(0.978)	290148	28.8746	32.3
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	318723	28.3911	31.7
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	376475	25.4416	28.4
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	285677	26.7096	29.8
104 n-Butylbenzene	91	21.296	21.296	(1.014)	297108	23.9785	26.8
107 1,2-Dibromo-3-chloropropane	157	22.301	22.301	(1.062)	27467	35.6863	39.9

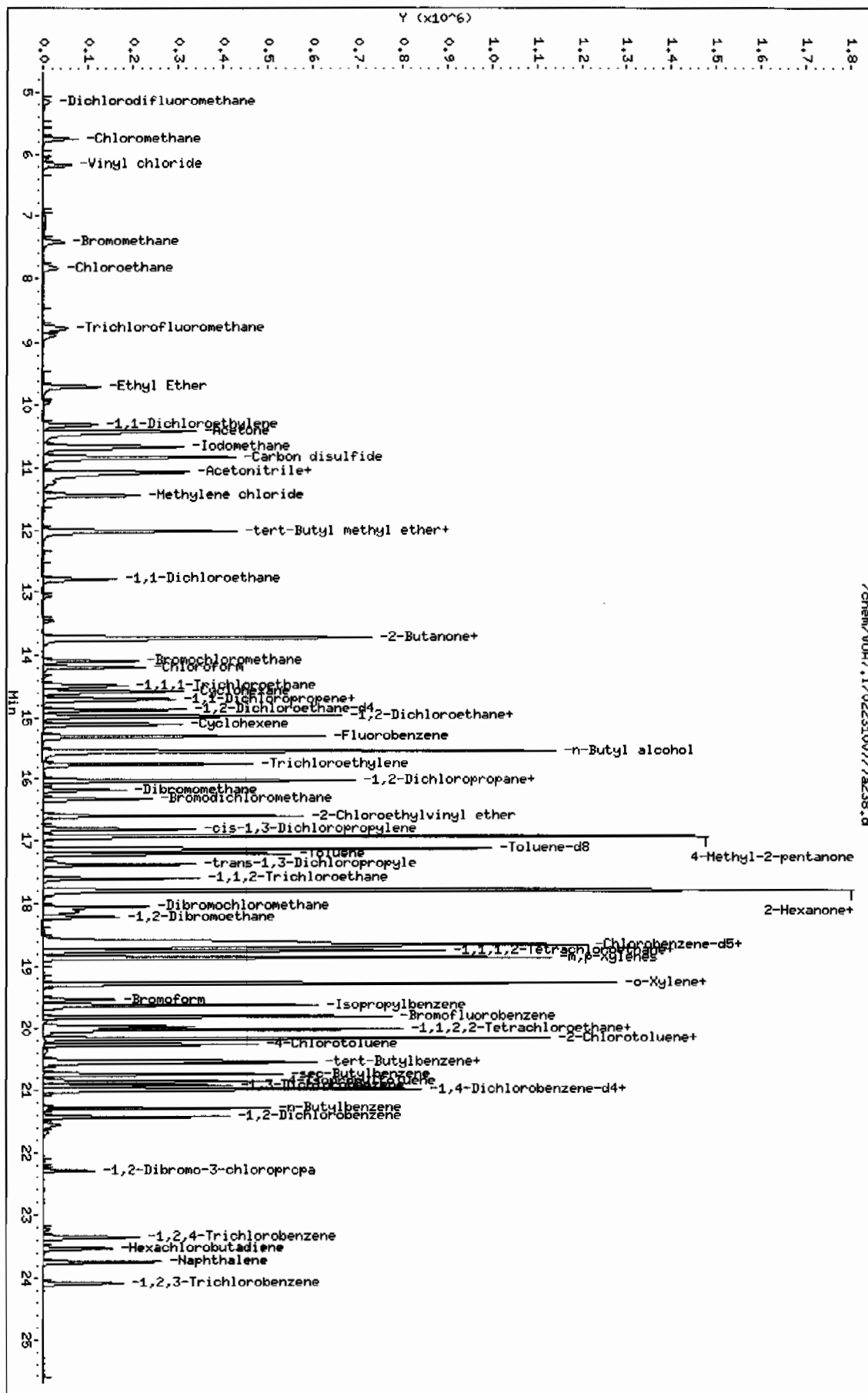
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount
exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/V007.1/022310v77a238.d
 Date: 24-FEB-2010 06:51
 Client ID: RE15-10-8346MSD
 Sample Info: 14202051372195673911V00711

Column phase: DB-624

Instrument: V007.1
 Operator: RKD1
 Column diameter: 0.25



Miscellaneous Data

Prep Logbook

Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer

Batch ID: 956738

Analyst: Alex Olson

Method: SW846 5030

Lab SOP: GL-OA-E-038 REV# 14

Instrument: Sartorius Balance B-001

Verified by:

Type

Sample Id

Description

Serial Number

Spike Amount

Spike Units

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202051370 MB	23-FEB-2010 15:00:00	Soil	5	5	1	N/A
1202051373 LCS	23-FEB-2010 15:00:00	Soil	5	5	1	N/A
1202051374 LCS	23-FEB-2010 15:00:00	Soil	5	5	1	N/A
247332001	23-FEB-2010 15:36:00	Misc Solid	5	5	1	N/A
247332002	23-FEB-2010 15:38:00	Soil	5	5	1	N/A
1202051371 PS (247332002)	23-FEB-2010 15:40:00	Soil	5	5	1	N/A
1202051372 PSD (247332002)	23-FEB-2010 15:42:00	Soil	5	5	1	N/A
247332004	23-FEB-2010 15:46:00	Soil	5	5	1	N/A
247332006	23-FEB-2010 15:50:00	Soil	5	5	1	N/A
247332007	23-FEB-2010 15:52:00	Soil	5	5	1	N/A
247332008	23-FEB-2010 15:54:00	Soil	5	5	1	N/A
247358001	23-FEB-2010 15:56:00	Soil	5	5	1	N/A
247358002	23-FEB-2010 15:58:00	Soil	5	5	1	N/A
247358003	23-FEB-2010 16:00:00	Soil	5	5	1	N/A
1202065431 MB	24-FEB-2010 10:00:00	Soil	5	5	1	N/A
1202065432 LCS	24-FEB-2010 10:00:00	Soil	5	5	1	N/A
1202065433 LCS	24-FEB-2010 10:00:00	Soil	5	5	1	N/A
247332003	24-FEB-2010 13:37:00	Soil	5	5	1	N/A
247332005	24-FEB-2010 13:39:00	Soil	5	5	1	N/A
247358004	24-FEB-2010 13:45:00	Soil	5	5	1	N/A

Comments:

Amount

Reagent/Solvent Lot ID

Description

Date: 2/17/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1941

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date:	2/17/2010	Daily Standard	Volume Added for Purge (ul)	MS/ Bik/	LCS	BFB	Purge Amount
(See pg. 43 for ICAL Std. Sci. Ids)		Solution ID#					
		LONG ICV	W7VM100217-22	1	1	5-5	5 Water Purge Vol:
		IS	UVM100203-01	1	1	1	N/A Soil Purge Wt.
		SS	UVM100203-02	1	1	1	N/A Mid level ext. MeOH Vol:
		SHORT ICV	W7VM100217-23			5-5	N/A ul
		BFB	UVM100203-02				N/A Methanol Lot #
							x Heated Purge
Sequence Number:	021710V7						

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol.(ml/ul)	Dil.	Factor	pH	AS Slot #	Matrix w or s	Analyst	CI test (Y/N)	Acceptable (O/X)	Comments
2/17/2010	8:37	72301.D	120200-----	GEL	RINSE	5mL	1	1	N/A	1	w	AXO1	N/A	O	UVM100106-07C/UVM100202-07C
2/17/2010	9:12	72302.D	W7VM100217-01	GEL	CCV	5mL	1	1	N/A	2	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	9:47	72303.D	W7VM100217-02	GEL	LCS	5mL	1	1	N/A	3	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	10:22	72304.D	W7VM100217-03	GEL	LCS	5g	1	1	N/A	4	s	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	11:21	72305.D	W7VM100217-04	GEL	LCS	5mL	1	1	N/A	5	w	AXO1	N/A	X	UVM100126-02C/UVM100214-01
2/17/2010	12:21	72306.D	120200-----	GEL	RINSE	5mL	1	1	N/A	1	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	12:54	72307.D	W7VM100217-05	GEL	LCS	5mL	1	1	N/A	2	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	14:55	72308.D	120200-----	GEL	RINSE	5mL	1	1	N/A	1	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	15:29	72309.D	UVM100203-02	GEL	BFB01	5mL	1	1	N/A	2	w	AXO1	N/A	O	UVM100106-02C/UVM100202-02C
2/17/2010	16:02	72310.D	W7VM100217-06	GEL	VSTD001	5mL	1	1	N/A	3	w	AXO1	N/A	O	UVM100106-03C/UVM100202-03C
2/17/2010	16:35	72311.D	W7VM100217-07	GEL	VSTD002	5mL	1	1	N/A	4	w	AXO1	N/A	O	UVM100106-04C/UVM100202-04C
2/17/2010	17:09	72312.D	W7VM100217-08	GEL	VSTD005	5mL	1	1	N/A	5	w	AXO1	N/A	O	UVM100106-05C/UVM100202-05C
2/17/2010	17:44	72313.D	W7VM100217-09	GEL	VSTD010	5mL	1	1	N/A	6	w	AXO1	N/A	O	UVM100106-06C/UVM100202-06C
2/17/2010	18:20	72314.D	W7VM100217-10	GEL	VSTD020	5mL	1	1	N/A	7	w	AXO1	N/A	O	UVM100106-07C/UVM100202-07C
2/17/2010	18:55	72315.D	W7VM100217-11	GEL	VSTD050	5mL	1	1	N/A	8	w	AXO1	N/A	O	UVM100106-08C/UVM100202-08C
2/17/2010	19:30	72316.D	W7VM100217-12	GEL	VSTD100	5mL	1	1	N/A	9	w	AXO1	N/A	O	UVM100106-01C/UVM100202-01C
2/17/2010	20:05	72317.D	120200-----	GEL	RINSE	5mL	1	1	N/A	10	w	AXO1	N/A	X	UVM10015-01/UVM100125-01D
2/17/2010	20:39	72318.D	W7VM100217-13	GEL	VSTD0005	5mL	1	1	N/A	11	w	AXO1	N/A	O	UVM10015-02/UVM100125-02D
2/17/2010	21:14	72319.D	W7VM100217-14	GEL	VSTD005S	5mL	1	1	N/A	12	w	AXO1	N/A	O	UVM10015-03/UVM100125-03D
2/17/2010	21:49	72320.D	W7VM100217-15	GEL	VSTD010S	5mL	1	1	N/A	13	w	AXO1	N/A	O	UVM10015-04/UVM100125-04D
2/17/2010	22:24	72321.D	W7VM100217-16	GEL	VSTD020S	5mL	1	1	N/A	14	w	AXO1	N/A	O	UVM10015-05/UVM100125-05D
2/17/2010	22:59	72322.D	W7VM100217-17	GEL	VSTD050S	5mL	1	1	N/A	15	w	AXO1	N/A	O	UVM10015-06/UVM100125-06D
2/17/2010	23:33	72323.D	W7VM100217-18	GEL	VSTD100S	5mL	1	1	N/A	16	w	AXO1	N/A	O	UVM10015-07/UVM100125-07D
2/18/2010	0:08	72324.D	W7VM100217-19	GEL	VSTD250S	5mL	1	1	N/A	17	w	AXO1	N/A	O	UVM100126-02C/UVM100214-01
2/18/2010	0:42	72325.D	W7VM100217-20	GEL	VSTD500S	5mL	1	1	N/A	18	w	AXO1	N/A	O	UVM100126-01E/UVM100214-01
2/18/2010	1:17	72326.D	120200-----	GEL	RINSE	5mL	1	1	N/A	19	w	AXO1	N/A	X	UVM091216-08B/UVM100125-08C
2/18/2010	1:52	72327.D	W7VM100217-21	GEL	ICV	5mL	1	1	N/A	20	w	AXO1	N/A	X	UVM100126-02C/UVM100214-01
2/18/2010	2:27	72328.D	W7VM100217-22	GEL	ICV	5mL	1	1	N/A	21	w	AXO1	N/A	O	UVM100126-01E/UVM100214-01
2/18/2010	3:03	72329.D	W7VM100217-23	GEL	SICV	5mL	1	1	N/A	22	w	AXO1	N/A	O	UVM091216-08B/UVM100125-08C
2/18/2010	3:38	72330.D	120200-----	GEL	RINSE	5mL	1	1	N/A	23	w	AXO1	N/A	X	

Date: 2/23/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: Multiplier Voltage: 1941

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2010

(See pg. 43 for IAL Std. Sol. Ids)

NaHSO4 lot # N/A

CI test lot # 81710

Sequence Number: 022310V7PM

Daily Standard Volume Added for Purge (ul)

Solution ID#	CCV	W7VM100223-08	Blk/	Smpl	CCV	LCS	MS/
IS	UVM100203-01	1	1	1	1	1	1
SS	UVM100203-02	1	1	1	1	1	1
LCS/MS	W7VM100223-09/10					5+5	
BFB	UVM100203-02						1
SHORT	W7VM100223-11/12				5+5	5+5	
DHEC	N/A						

Purge Amount

Purge	Amount
Water Purge Vol:	5
Soil Purge Wt.	5g
Mid level ext. MeOH Vol:	N/A
ul	N/A
Methanol Lot #	N/A
Heated Purge	x

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt (g) or Vol (ml/ul)	Dil.	Factor	pH	AS Slot #	Matrix w or s	Analyst	CI test (Y/N)	Acceptable (O/X)	Comments
2/23/2010	18:50	7A217.D	120200-----		GEL	RINSE	5mL	1	N/A	17	w	AXO1	N/A	X	UVM100106-07C/UVM100202-07D
2/23/2010	19:23	7A218.D	W7VM100223-08		GEL	BFB/CCV	5mL	1	N/A	18	w	AXO1	N/A	O	UVM100220-01A/UVM100218-01 Not Required
2/23/2010	19:57	7A219.D	W7VM100223-09		GEL	LCS	5mL	1	N/A	19	w	AXO1	N/A	X	UVM100220-01A/UVM100218-01
2/23/2010	20:30	7A220.D	W7VM100223-10		GEL	LCS	5g	1	N/A	20	s	AXO1	N/A	O	UVM100220-01A/UVM100218-01
2/23/2010	21:04	7A221.D	W7VM100223-11		GEL	SHORT/SLCS	5mL	1	N/A	21	w	AXO1	N/A	O	UVM081216-08B/UVM100125-08D
2/23/2010	21:37	7A222.D	W7VM100223-12		GEL	SLCS	5g	1	N/A	22	s	AXO1	N/A	O	UVM081216-08B/UVM100125-08D
2/23/2010	22:11	7A223.D	120200-----		GEL	BLANK	5mL	1	N/A	23	w	AXO1	N/A	X	Not required
2/23/2010	22:45	7A224.D	120200-----		GEL	BLANK	5g	1	N/A	24	s	AXO1	N/A	O	
2/23/2010	23:19	7A225.D	247332001		LANL	956739	5g	1	N/A	25	s	AXO1	N/A	O	
2/23/2010	23:53	7A226.D	247332002		LANL	956739	5g	1	N/A	26	s	AXO1	N/A	O	
2/24/2010	0:28	7A227.D	247332003		LANL	956739	5g	1	N/A	27	s	AXO1	N/A	X	RR IS Failure see 7a310
2/24/2010	1:04	7A228.D	247332004		LANL	956739	5g	1	N/A	28	s	AXO1	N/A	O	
2/24/2010	1:38	7A229.D	247332005		LANL	956739	5g	1	N/A	29	s	AXO1	N/A	X	RR IS Failure see 7a311
2/24/2010	2:12	7A230.D	247332006		LANL	956739	5g	1	N/A	30	s	AXO1	N/A	O	
2/24/2010	2:47	7A231.D	247332007		LANL	956739	5g	1	N/A	31	s	AXO1	N/A	O	
2/24/2010	3:22	7A232.D	247332008		LANL	956739	5g	1	N/A	32	s	AXO1	N/A	O	
2/24/2010	3:57	7A233.D	247358001		LANL	956739	5g	1	N/A	33	s	AXO1	N/A	X	RR IS Failure see 7a312
2/24/2010	4:31	7A234.D	247358002		LANL	956739	5g	1	N/A	34	s	AXO1	N/A	X	RR IS Failure see 7a313
2/24/2010	5:06	7A235.D	247358003		LANL	956739	5g	1	N/A	35	s	AXO1	N/A	O	
2/24/2010	5:42	7A236.D	247358004		LANL	956739	5g	1	N/A	36	s	AXO1	N/A	X	RR IS Failure see 7a314
2/24/2010	6:17	7A237.D	1202051371		LANL	956739	5g	1	N/A	37	s	AXO1	N/A	O	MS 247332002
2/24/2010	6:51	7A238.D	1202051372		LANL	956739	5g	1	N/A	38	s	AXO1	N/A	O	MSD 247332002
		7A239.D	No MS or GC data present												

Date: 2/24/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1941

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2010

(See pg. 43 for IAL Std. Sci. Ids)

NaHSO4 lot # N/A

CI test lot # 81710

Sequence Number: 022410V7

Daily Standard

Solution ID#	Volume Added for Purge (ul)	MS/
CCV	Blk/	LCS
IS	Smpl	LCS
W7VM100224-01	5+5	5
UVM100203-01	1	5g
UVM100203-02	1	Y
W7VM100224-02/03	5+5	100 ul
UVM100203-02	5+5	DA057
UVM100224-04/05	5+5	Methanol Lot #
W7VM100224-04/05	5+5	Heated Purge
DHC	n/a	

Purge Amount

Water Purge Vol: 5

Soil Purge Wt: 5g

Mild level ext. MeOH Vol: Y

Methanol Lot #: DA057

Heated Purge: X

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol.(ml/ul)	Dil.	Factor	pH	AS Slot #	Matrix w or s	Analyst	CI test Acceptable (Y/N)	Comments
2/24/2010	10:18	7A301.D	120200----		GEL	RINSE	5mL	1	N/A	1	w	AXO1	N/A	X
2/24/2010	10:51	7A302.D	W7VM100224-01		GEL	BFB/CCV	5mL	1	N/A	2	w	AXO1	N/A	O
2/24/2010	11:25	7A303.D	W7VM100224-02		GEL	LCS	5mL	1	N/A	3	w	AXO1	N/A	O
2/24/2010	11:59	7A304.D	W7VM100224-03		GEL	LCS	5g	1	N/A	4	s	AXO1	N/A	O
2/24/2010	12:33	7A305.D	W7VM100224-04		GEL	SHORT/SLCS	5mL	1	N/A	5	w	AXO1	N/A	O
2/24/2010	13:07	7A306.D	W7VM100224-05		GEL	SLCS	5g	1	N/A	6	s	AXO1	N/A	O
2/24/2010	13:41	7A307.D	120200----		GEL	BLANK	5mL	1	N/A	7	w	AXO1	N/A	O
2/24/2010	14:15	7A308.D	120200----		GEL	BLANK	5g	1	N/A	8	s	AXO1	N/A	O
2/24/2010	14:49	7A309.D	246979001		LBNL	956212	10uL	500000	pH5	9	w	AXO1	N	X
2/24/2010	15:24	7A310.D	247332003		LANL	956739	5g	1	N/A	10	s	AXO1	N/A	O
2/24/2010	15:59	7A311.D	247332005		LANL	956739	5g	1	N/A	11	s	AXO1	N/A	O
2/24/2010	16:32	7A312.D	247358001		LANL	956739	5g	1	N/A	12	s	AXO1	N/A	X
2/24/2010	17:07	7A313.D	247358002		LANL	956739	5g	1	N/A	13	s	AXO1	N/A	X
2/24/2010	17:43	7A314.D	247358004		LANL	956739	5g	1	N/A	14	s	AXO1	N/A	O
2/24/2010	18:18	7A315.D	247311001		BY12	957216	5mL	1	pH2	15	w	AXO1	N	O
2/24/2010	18:52	7A316.D	246939004		BY12	957213	0.5mL	10	N/A	16	w	AXO1	N/A	O
2/24/2010	19:26	7A317.D	246939010		BY12	957213	0.5mL	10	N/A	17	w	AXO1	N/A	O
2/24/2010	20:00	7A318.D	246939017		BY12	957213	0.5mL	10	N/A	18	w	AXO1	N/A	O
2/24/2010	20:34	7A319.D	246939018		BY12	957213	0.5mL	10	N/A	19	w	AXO1	N/A	O
2/24/2010	21:08	7A320.D	246939022		BY12	957213	0.5mL	10	N/A	20	w	AXO1	N/A	O
2/24/2010	21:44	7A321.D	1202052437		BY12	957213	0.5mL	10	N/A	21	w	AXO1	N/A	O
2/24/2010	22:19	7A322.D	1202052438		BY12	957213	0.5mL	10	N/A	22	w	AXO1	N/A	O

MS 246939004
MSD 246939004

DATA EXCEPTION REPORT

Mo.Day Yr. 15-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: VOA GC/MS	Test / Method: SW846 8260B	Matrix Type: Solid	Client Code: LANL
Batch ID: 956739	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 247332(10-1905),247358(10-1914)

Application Issues:

Failed Recovery for MS/PS
Failed RPD for MS/MSD, or PS/PSD
Other
Failed Yield for Surrogates
Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

- The MS 1202051371 did not meet acceptance criteria for the following target analytes:

1,1,2,2-Tetrachloroethane recovered at 1.52%. The limits are 52%-129%.
Trichloroethylene recovered at 140.9%. The limits are 54%-130%.
- The MS/MSD did not meet acceptance criteria for RPD recoveries.
- Sample 247358001 did not meet recovery acceptance criteria for surrogate recoveries:

Toluene-d8 recovered at 132.2%. The limits are 71%-128%.
- The MSD 1202051372 did not meet recovery acceptance criteria for the following target analytes:

1,1,2,2-Tetrachloroethane recovered at 1.57%. The limits are 52%-129%.
1,1-Dichloropropene recovered at 57.2%. The limits are 59%-126%.
Carbon disulfide recovered at 42.7%. The limits are 53%-133%.
- Samples 247358001, 002, and 247332005 did not meet acceptance criteria for Internal standard recovery.

DER Disposition:

- 1.,2.,4., The Matrix Spike and Matrix Spike duplicate did not meet all acceptance criteria for recovery and Relative Percent Difference (RPD). The failures are attributed to inconsistent matrix effect and data narrated and reported.
- 3., Sample 247358001 did not meet acceptance criteria for Toluene-d8 recovery (Surrogate). Sample re-analysis confirms the matrix effect. Data narrated and reported
- 5., Samples 247358001,002 and 247332005 did not meet the acceptance criteria for internal standard recovery. Sample re-analysis confirms the matrix effect. Data narrated and reported.

Originator's Name:

Alex Olson 15-MAR-10

Data Validator/Group Leader:

Kelle Bellamy 16-MAR-10

GC/MS Semivolatile Analysis

**Semi-Volatile Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1905**

Method/Analysis Information

Procedure:	Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
Analytical Method:	SW846 8270C
Prep Method:	SW846 3550B
Analytical Batch Number:	956285
Prep Batch Number:	956255

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
247332002	RE15-10-8346
247332003	RE15-10-8347
247332004	RE15-10-8344
247332005	RE15-10-8345
247332006	RE15-10-8342
247332007	RE15-10-8343
247332008	RE15-10-8377
1202050556	Method Blank (MB)
1202050557	Laboratory Control Sample (LCS)
1202050558	247556001(RE16-10-1514) Matrix Spike (MS)
1202050559	247556001(RE16-10-1514) Matrix Spike Duplicate (MSD)

The samples in this batch were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-009 REV# 23.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 18.2.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package. Please note that the second level of the initial calibration (5 mg/L) is only used for n-Nitrosodipropylamine. The various calibration mixes may not be calibrated using all of the calibration levels. In addition, not all of the mixes are calibrated using the same levels.

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC on Quantitation Reports, Initial Calibration Reports, Calibration Check Standard Reports, etc. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine will be reported as Diphenylamine on all reports and forms. 2,4-Toluene diisocyanate rapidly hydrolyzes in water (half-life less than 30 minutes). Therefore, recoveries of this compound from aqueous matrices should not be expected. In addition, in solid matrices, 2,4-Toluene diisocyanate often reacts with alcohols and amines to produce urethane and ureas and consequently cannot usually coexist in a solution containing these materials. 2,4-Toluene diisocyanate is reported as an estimated value.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration

All initial calibration requirements have been met for this batch. A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

CCV Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this batch met the acceptance criteria.

Surrogate Recoveries

The following sample failed surrogate recovery in this batch and was re-extracted out of holding and analyzed: 247332005 (RE15-10-8345). The re-extracted sample passed all surrogate recoveries. Both sets of data were reported.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

The non-SDG sample 247556001 (RE16-10-1514) was selected for analysis as the matrix spike and matrix spike duplicate. Please see the associated raw data files located in the Miscellaneous Section of the data report.

Matrix Spike (MS) Recovery Statement

The MS(1202050558) and MSD(1202050559) recovered spike analytes outside of the established acceptance limits. Please see the QC summary report for specific failures. As the MS and MSD displayed

similar recoveries, the failures were attributed to sample matrix interference and the data have been reported.

Matrix Spike Duplicate (MSD) Recovery Statement

The MS(1202050558) and MSD(1202050559) recovered spike analytes outside of the established acceptance limits. Please see the QC summary report for specific failures. As the MS and MSD displayed similar recoveries, the failures were attributed to sample matrix interference and the data have been reported.

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent differences (RPD) were not within the acceptance limits. Please see the QC summary report for specific failures. The failures were attributed to sample matrix interference and the data have been reported.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information

Holding Time Specifications

The following sample failed surrogate recovery in this batch and was re-extracted out of holding and analyzed: 247332005 (RE15-10-8345). The re-extracted sample passed all surrogate recoveries. Both sets of data were reported.

GEL assigns holding times based on the associated methodology that assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Sample 247332005 (RE15-10-8345) was re-extracted due to surrogate failure.

Miscellaneous Information

Data Exception (DER) Documentation

The following DER was generated for this SDG: 800108. It is located in the Miscellaneous Section of the data report.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations. Please see the raw data in the Miscellaneous Section.

Additional Comments

Additional comments were not required for this batch.

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to

eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

System Configuration

The samples reported in this batch were analyzed on one or more of the following instrument systems. Instrument systems are referenced in the raw data and individual form headers by the Instrument ID designations listed below:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
MSD4.I	HP Mass Spectrometer	HP6890/HP5973	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Method/Analysis Information

Procedure:	Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
Analytical Method:	SW846 8270C
Prep Method:	SW846 3550B
Analytical Batch Number:	961919
Prep Batch Number:	961918

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
247332005	RE15-10-8345
1202063247	Method Blank (MB)
1202063248	Laboratory Control Sample (LCS)
1202063249	Laboratory Control Sample Duplicate (LCSD)

The samples in this batch were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-009 REV# 23.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 18.2.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package. Please note that the second level of the initial calibration (5 mg/L) is only used for n-Nitrosodipropylamine. The various calibration mixes may not be calibrated using all of the calibration levels. In addition, not all of the mixes are calibrated using the same levels.

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC on Quantitation Reports, Initial Calibration Reports, Calibration Check Standard Reports, etc. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine will be reported as Diphenylamine on all reports and forms. 2,4-Toluene diisocyanate rapidly hydrolyzes in water (half-life less than 30 minutes). Therefore, recoveries of this compound from aqueous matrices should not be expected. In addition, in solid matrices, 2,4-Toluene diisocyanate often reacts with alcohols and amines to produce urethane and ureas and consequently cannot usually coexist in a solution containing these materials. 2,4-Toluene diisocyanate is reported as an estimated value.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration

All initial calibration requirements have been met for this batch. A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

CCV Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this batch met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria for this batch.

Laboratory Control Sample (LCS) Recovery

The LCS (1202063248) recovered 2,4-Dinitrophenol at 139% (SPC limits: 18%-127%) and 2-Methyl-4,6-dinitrophenol at 119% (SPC limits: 32%-117%). The indicated analytes accounted for less than 5% of the total number of requested spike analyte list. That satisfied the clients acceptance criteria and the data were reported.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

No matrix spike and matrix spike duplicate were extracted and analyzed with this SDG.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information**Holding Time Specifications**

The following sample was re-extracted out of holding in this batch due to surrogate failure in the original extraction batch: 247332005 (RE15-10-8345). Since the failure did not confirm, both sets of results were reported. GEL assigns holding times based on the associated methodology that assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this batch did not require dilutions.

Sample Re-extraction/Re-analysis

The following sample was re-extracted out of holding in this batch due to surrogate failure in the original extraction batch: 247332005 (RE15-10-8345). Since the failure did not confirm, both sets of results were reported.

Miscellaneous Information**Data Exception (DER) Documentation**

The following DER was generated for this batch: 801078. It is located in the Miscellaneous Section of the data report.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations. Please see the raw data in the Miscellaneous Section.

Additional Comments

Additional comments were not required for this batch.

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The

data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

System Configuration

The samples reported in this SDG were analyzed on one or more of the following instrument systems. Instrument systems are referenced in the raw data and individual form headers by the Instrument ID designations listed below:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
MSD7.I	HP Mass Spectrometer	HP6890/HP5973	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

Reviewer: Adam Sanchez Date: 3-17-10

Sample Data Summary

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332006

Client ID: RE15-10-8342
Batch ID: 956285
Run Date: 03/04/2010 18:57
Prep Date: 02/23/2010 10:34
Data File: s4c0418.d

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.4	352
108-95-2	Phenol	U	352	ug/kg	70.4	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.4	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.4	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.4	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.4	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.0	352
129-00-0	Pyrene		78.3	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.4	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.4	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.4	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.4	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.4	352
95-48-7	o-Cresol	U	352	ug/kg	70.4	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.4	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.4	352
78-59-1	Isophorone	U	352	ug/kg	70.4	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.4	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.4	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.4	352
65-85-0	Benzoic acid	U	704	ug/kg	176	704
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.4	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.4	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.04	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.4	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.4	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.4	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.4	352
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.4	352

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8342	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 18:57	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4c0418.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	352	ug/kg	70.4	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	704	ug/kg	134	704
132-64-9	Dibenzofuran	U	352	ug/kg	70.4	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.4	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.4	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.4	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.4	352
122-66-7	Azobenzene	U	352	ug/kg	70.4	352
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.4	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.4	352
85-01-8	Phenanthrene		81.2	ug/kg	10.6	35.2
120-12-7	Anthracene	J	12.8	ug/kg	7.04	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.4	352
206-44-0	Fluoranthene		127	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.4	352
56-55-3	Benzo(a)anthracene		62.6	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene		52.7	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.4	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.4	352
205-99-2	Benzo(b)fluoranthene		72.0	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene		38.4	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	20.8	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	J	22.6	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.4	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	669	ug/kg		J
	Unknown	5.64	393	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8342	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 18:57	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4c0418.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	1760	ug/kg	99	NJ
79-92-5	Camphene	5.84	149	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	153	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	503	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.12	2080	ug/kg	96	NJ
	Unknown	8.92	301	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
Client ID: RE15-10-8343	Client: LANL010	Project: LANL01004
Batch ID: 956285	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/04/2010 19:19	Inst: MSD4.1	Dilution: 1
Prep Date: 02/23/2010 10:34	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4c0419.d	Aliquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.5	347
108-95-2	Phenol	U	347	ug/kg	69.5	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.5	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.5	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.5	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.5	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.5	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	115	347
87-86-5	Pentachlorophenol	U	347	ug/kg	86.8	347
129-00-0	Pyrene	J	16.9	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.5	347
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.5	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.5	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.5	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.5	347
95-48-7	o-Cresol	U	347	ug/kg	69.5	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.5	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.5	347
78-59-1	Isophorone	U	347	ug/kg	69.5	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.5	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	122	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.5	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.5	347
65-85-0	Benzoic acid	U	695	ug/kg	174	695
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.5	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.5	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.95	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.5	347
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.5	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.5	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.5	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.5	347
99-09-2	o-Nitroaniline	U	347	ug/kg	69.5	347
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
Client ID: RE15-10-8343	Client: LANL010	Project: LANL01004
Batch ID: 956285	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/04/2010 19:19	Inst: MSD4.I	Dilution: 1
Prep Date: 02/23/2010 10:34	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4c0419.d	Aliquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	347	ug/kg	69.5	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	695	ug/kg	132	695
132-64-9	Dibenzofuran	U	347	ug/kg	69.5	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.5	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.5	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.5	347
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	347	ug/kg	69.5	347
122-66-7	Azobenzene	U	347	ug/kg	69.5	347
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.5	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.5	347
85-01-8	Phenanthrene	J	16.5	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.95	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.5	347
206-44-0	Fluoranthene	J	24.9	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.5	347
56-55-3	Benzo(a)anthracene	J	18.3	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.5	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.5	347
205-99-2	Benzo(b)fluoranthene	J	15.3	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.5	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	1290	ug/kg		J
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	441	ug/kg	86	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332007	Date Received: 02/18/2010 08:45	%Moisture: 4.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8343	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 19:19	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4c0419.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanocazulene, decahydro-4,8,8-trim	5.67	1820	ug/kg	99	NJ
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	5.84	212	ug/kg	93	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	173	ug/kg	97	NJ
77-53-2	Cedrol	6.4	403	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	2470	ug/kg	97	NJ
	Unknown	8.94	333	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332004

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8344
Batch ID: 956285
Run Date: 03/04/2010 18:12
Prep Date: 02/23/2010 10:34
Data File: s4c0416.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.5	352
108-95-2	Phenol	U	352	ug/kg	70.5	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.5	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.5	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.5	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.5	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.1	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.5	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.5	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.5	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.5	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.5	352
95-48-7	o-Cresol	U	352	ug/kg	70.5	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.5	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.5	352
78-59-1	Isophorone	U	352	ug/kg	70.5	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.5	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.5	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.5	352
65-85-0	Benzoic acid	U	705	ug/kg	176	705
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.5	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.5	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.05	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.5	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.5	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.5	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.5	352
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	352	ug/kg	70.5	352

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332004

Client ID: RE15-10-8344
Batch ID: 956285
Run Date: 03/04/2010 18:12
Prep Date: 02/23/2010 10:34
Data File: s4c0416.d

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQI/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	352	ug/kg	70.5	352
208-96-8	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
51-28-5	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
132-64-9	2,4-Dinitrophenol	U	705	ug/kg	134	705
84-66-2	Dibenzofuran	U	352	ug/kg	70.5	352
86-73-7	Diethylphthalate	U	352	ug/kg	70.5	352
7005-72-3	Fluorene	U	35.2	ug/kg	10.6	35.2
534-52-1	4-Chlorophenylphenylether	U	352	ug/kg	70.5	352
100-01-6	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.5	352
122-39-4	4-Nitroaniline	U	352	ug/kg	106	352
122-66-7	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.5	352
122-66-7	Azobenzene	U	352	ug/kg	70.5	352
101-55-3	<i>1,2</i> -Diphenylhydrazine					
118-74-1	4-Bromophenylphenylether	U	352	ug/kg	70.5	352
85-01-8	Hexachlorobenzene	U	352	ug/kg	70.5	352
120-12-7	Phenanthrene	U	35.2	ug/kg	10.6	35.2
84-74-2	Anthracene	U	35.2	ug/kg	7.05	35.2
206-44-0	Di-n-butylphthalate	U	352	ug/kg	70.5	352
85-68-7	Fluoranthene	U	35.2	ug/kg	10.6	35.2
56-55-3	Butylbenzylphthalate	U	352	ug/kg	70.5	352
91-94-1	Benzo(a)anthracene	U	35.2	ug/kg	10.6	35.2
218-01-9	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
117-81-7	Chrysene	U	35.2	ug/kg	10.6	35.2
117-84-0	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.5	352
205-99-2	Di-n-octylphthalate	U	352	ug/kg	70.5	352
207-08-9	Benzo(b)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
193-39-5	Benzo(a)pyrene	U	35.2	ug/kg	10.6	35.2
53-70-3	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
191-24-2	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
120-82-1	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
	1,2,4-Trichlorobenzene	U	352	ug/kg	70.5	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	623	ug/kg		J
	Unknown	5.64	885	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332004

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
Tentatively Identified Compound Summary							
CAS No.	Tentatively Identified Compound (TIC)		RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim		5.67	3130	ug/kg	99	NJ
5794-03-6	Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me		5.84	303	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr		6.02	315	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-		6.4	1350	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa		8.13	5150	ug/kg	98	NJ
	Unknown		8.94	689	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332005

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	355	ug/kg	71.1	355
108-95-2	Phenol	U	355	ug/kg	71.1	355
95-57-8	2-Chlorophenol	U	355	ug/kg	71.1	355
106-46-7	1,4-Dichlorobenzene	U	355	ug/kg	71.1	355
621-64-7	N-Nitrosodipropylamine	U	355	ug/kg	71.1	355
59-50-7	4-Chloro-3-methylphenol	U	355	ug/kg	71.1	355
83-32-9	Acenaphthene	U	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	U	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	U	355	ug/kg	117	355
87-86-5	Pentachlorophenol	U	355	ug/kg	88.9	355
129-00-0	Pyrene		35.9	ug/kg	10.7	35.5
110-86-1	Pyridine	U	355	ug/kg	71.1	355
62-53-3	Aniline	U	355	ug/kg	107	355
111-44-4	bis(2-Chloroethyl) ether	U	355	ug/kg	71.1	355
541-73-1	1,3-Dichlorobenzene	U	355	ug/kg	71.1	355
100-51-6	Benzyl alcohol	U	355	ug/kg	107	355
95-50-1	1,2-Dichlorobenzene	U	355	ug/kg	71.1	355
108-60-1	bis(2-Chloroisopropyl)ether	U	355	ug/kg	71.1	355
95-48-7	o-Cresol	U	355	ug/kg	71.1	355
65794-96-9	m,p-Cresols	U	355	ug/kg	107	355
67-72-1	Hexachloroethane	U	355	ug/kg	71.1	355
98-95-3	Nitrobenzene	U	355	ug/kg	71.1	355
78-59-1	Isophorone	U	355	ug/kg	71.1	355
88-75-5	2-Nitrophenol	U	355	ug/kg	71.1	355
105-67-9	2,4-Dimethylphenol	U	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	U	355	ug/kg	71.1	355
120-83-2	2,4-Dichlorophenol	U	355	ug/kg	71.1	355
65-85-0	Benzoic acid	U	711	ug/kg	178	711
91-20-3	Naphthalene	U	35.5	ug/kg	10.7	35.5
106-47-8	4-Chloroaniline	U	355	ug/kg	71.1	355
87-68-3	Hexachlorobutadiene	U	355	ug/kg	71.1	355
91-57-6	2-Methylnaphthalene	U	35.5	ug/kg	7.11	35.5
77-47-4	Hexachlorocyclopentadiene	U	355	ug/kg	71.1	355
88-06-2	2,4,6-Trichlorophenol	U	355	ug/kg	71.1	355
95-95-4	2,4,5-Trichlorophenol	U	355	ug/kg	71.1	355
91-58-7	2-Chloronaphthalene	U	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	U	355	ug/kg	71.1	355
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	355	ug/kg	71.1	355

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 18:35	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s4c0417.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	355	ug/kg	71.1	355
606-20-2	2,6-Dinitrotoluene	U	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	U	35.5	ug/kg	10.7	35.5
51-28-5	2,4-Dinitrophenol	U	711	ug/kg	135	711
132-64-9	Dibenzofuran	U	355	ug/kg	71.1	355
84-66-2	Diethylphthalate	U	355	ug/kg	71.1	355
86-73-7	Fluorene	U	35.5	ug/kg	10.7	35.5
7005-72-3	4-Chlorophenylphenylether	U	355	ug/kg	71.1	355
534-52-1	2-Methyl-4,6-dinitrophenol	U	355	ug/kg	71.1	355
100-01-6	4-Nitroaniline	U	355	ug/kg	107	355
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	355	ug/kg	71.1	355
122-66-7	Azobenzene	U	355	ug/kg	71.1	355
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	355	ug/kg	71.1	355
118-74-1	Hexachlorobenzene	U	355	ug/kg	71.1	355
85-01-8	Phenanthrene	J	34.6	ug/kg	10.7	35.5
120-12-7	Anthracene	U	35.5	ug/kg	7.11	35.5
84-74-2	Di-n-butylphthalate	U	355	ug/kg	71.1	355
206-44-0	Fluoranthene		50.8	ug/kg	10.7	35.5
85-68-7	Butylbenzylphthalate	U	355	ug/kg	71.1	355
56-55-3	Benzo(a)anthracene	J	29.2	ug/kg	10.7	35.5
91-94-1	3,3'-Dichlorobenzidine	U	355	ug/kg	107	355
218-01-9	Chrysene	J	20.2	ug/kg	10.7	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	355	ug/kg	71.1	355
117-84-0	Di-n-octylphthalate	U	355	ug/kg	71.1	355
205-99-2	Benzo(b)fluoranthene	J	28.6	ug/kg	10.7	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.7	35.5
50-32-8	Benzo(a)pyrene	J	14.9	ug/kg	10.7	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.7	35.5
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.7	35.5
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.7	35.5
120-82-1	1,2,4-Trichlorobenzene	U	355	ug/kg	71.1	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.88	2630	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.4	1080	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number:	10-1905	Date Collected:	02/12/2010 12:00	Matrix:	R
Lab Sample ID:	247332005	Date Received:	02/18/2010 08:45	%Moisture:	6.3
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8345	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	956285	Inst:	MSD4.I	Dilution:	1
Run Date:	03/04/2010 18:35	Analyst:	JMB3	Inj. Vol:	.5 uL
Prep Date:	02/23/2010 10:34	Aliquot:	30.01 g	Final Volume:	1 mL
Data File:	s4c0417.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	587	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	1200	ug/kg	96	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332005

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.06 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	Uh	355	ug/kg	71.0	355
108-95-2	Phenol	Uh	355	ug/kg	71.0	355
95-57-8	2-Chlorophenol	Uh	355	ug/kg	71.0	355
106-46-7	1,4-Dichlorobenzene	Uh	355	ug/kg	71.0	355
621-64-7	N-Nitrosodipropylamine	Uh	355	ug/kg	71.0	355
59-50-7	4-Chloro-3-methylphenol	Uh	355	ug/kg	71.0	355
83-32-9	Acenaphthene	Uh	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	Uh	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	Uh	355	ug/kg	117	355
87-86-5	Pentachlorophenol	Uh	355	ug/kg	88.7	355
129-00-0	Pyrene	Jh	28.8	ug/kg	10.6	35.5
110-86-1	Pyridine	Uh	355	ug/kg	71.0	355
62-53-3	Aniline	Uh	355	ug/kg	106	355
111-44-4	bis(2-Chloroethyl) ether	Uh	355	ug/kg	71.0	355
541-73-1	1,3-Dichlorobenzene	Uh	355	ug/kg	71.0	355
100-51-6	Benzyl alcohol	Uh	355	ug/kg	106	355
95-50-1	1,2-Dichlorobenzene	Uh	355	ug/kg	71.0	355
108-60-1	bis(2-Chloroisopropyl)ether	Uh	355	ug/kg	71.0	355
95-48-7	o-Cresol	Uh	355	ug/kg	71.0	355
65794-96-9	m,p-Cresols	Uh	355	ug/kg	106	355
67-72-1	Hexachloroethane	Uh	355	ug/kg	71.0	355
98-95-3	Nitrobenzene	Uh	355	ug/kg	71.0	355
78-59-1	Isophorone	Uh	355	ug/kg	71.0	355
88-75-5	2-Nitrophenol	Uh	355	ug/kg	71.0	355
105-67-9	2,4-Dimethylphenol	Uh	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	Uh	355	ug/kg	71.0	355
120-83-2	2,4-Dichlorophenol	Uh	355	ug/kg	71.0	355
65-85-0	Benzoic acid	Uh	710	ug/kg	177	710
91-20-3	Naphthalene	Jh	11.2	ug/kg	10.6	35.5
106-47-8	4-Chloroaniline	Uh	355	ug/kg	71.0	355
87-68-3	Hexachlorobutadiene	Uh	355	ug/kg	71.0	355
91-57-6	2-Methylnaphthalene	Uh	35.5	ug/kg	7.10	35.5
77-47-4	Hexachlorocyclopentadiene	Uh	355	ug/kg	71.0	355
88-06-2	2,4,6-Trichlorophenol	Uh	355	ug/kg	71.0	355
95-95-4	2,4,5-Trichlorophenol	Uh	355	ug/kg	71.0	355
91-58-7	2-Chloronaphthalene	Uh	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	Uh	355	ug/kg	71.0	355
99-09-2	<i>o</i> -Nitroaniline	Uh	355	ug/kg	71.0	355
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332005

Client ID: RE15-10-8345RE
Batch ID: 961919
Run Date: 03/08/2010 13:54
Prep Date: 03/07/2010 12:11
Data File: s7c0813.d

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.06 g
Column: J&W DB-5MS

Matrix: R
% Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	Uh	355	ug/kg	71.0	355
606-20-2	2,6-Dinitrotoluene	Uh	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	Uh	35.5	ug/kg	10.6	35.5
51-28-5	2,4-Dinitrophenol	Uh	710	ug/kg	135	710
132-64-9	Dibenzofuran	Uh	355	ug/kg	71.0	355
84-66-2	Diethylphthalate	Uh	355	ug/kg	71.0	355
86-73-7	Fluorene	Uh	35.5	ug/kg	10.6	35.5
7005-72-3	4-Chlorophenylphenylether	Uh	355	ug/kg	71.0	355
534-52-1	2-Methyl-4,6-dinitrophenol	Uh	355	ug/kg	71.0	355
100-01-6	4-Nitroaniline	Uh	355	ug/kg	106	355
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	Uh	355	ug/kg	71.0	355
122-66-7	Azobenzene	Uh	355	ug/kg	71.0	355
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	Uh	355	ug/kg	71.0	355
118-74-1	Hexachlorobenzene	Uh	355	ug/kg	71.0	355
85-01-8	Phenanthrene	Jh	34.1	ug/kg	10.6	35.5
120-12-7	Anthracene	Uh	35.5	ug/kg	7.10	35.5
84-74-2	Di-n-butylphthalate	Uh	355	ug/kg	71.0	355
206-44-0	Fluoranthene	h	48.3	ug/kg	10.6	35.5
85-68-7	Butylbenzylphthalate	Uh	355	ug/kg	71.0	355
56-55-3	Benzo(a)anthracene	Jh	22.2	ug/kg	10.6	35.5
91-94-1	3,3'-Dichlorobenzidine	Uh	355	ug/kg	106	355
218-01-9	Chrysene	Jh	20.3	ug/kg	10.6	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	Uh	355	ug/kg	71.0	355
117-84-0	Di-n-octylphthalate	Uh	355	ug/kg	71.0	355
205-99-2	Benzo(b)fluoranthene	Jh	31.6	ug/kg	10.6	35.5
207-08-9	Benzo(k)fluoranthene	Uh	35.5	ug/kg	10.6	35.5
50-32-8	Benzo(a)pyrene	Jh	16.6	ug/kg	10.6	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	Uh	35.5	ug/kg	10.6	35.5
53-70-3	Dibenzo(a,h)anthracene	Uh	35.5	ug/kg	10.6	35.5
191-24-2	Benzo(ghi)perylene	Uh	35.5	ug/kg	10.6	35.5
120-82-1	1,2,4-Trichlorobenzene	Uh	355	ug/kg	71.0	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.04	3650	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.58	669	ug/kg	98	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
Client ID: RE15-10-8345RE	Client: LANL010	Project: LANL01004
Batch ID: 961919	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/08/2010 13:54	Inst: MSD7.1	Dilution: 1
Prep Date: 03/07/2010 12:11	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7c0813.d	Aliquot: 30.06 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
489-40-7	1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,	5.75	364	ug/kg	93	NJ
	Unknown	5.83	1730	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.86	4730	ug/kg	98	NJ
79-92-5	Camphene	6.03	808	ug/kg	83	NJ
	Unknown	6.07	218	ug/kg		J
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	6.19	144	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.21	718	ug/kg	97	NJ
77-53-2	Cedrol	6.64	1480	ug/kg	94	NJ
	Unknown	8.77	426	ug/kg		J
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	8.82	297	ug/kg	99	NJ
	Unknown	9.09	274	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.13	8360	ug/kg	98	NJ
	Unknown	9.42	270	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	9.51	308	ug/kg	94	NJ
110936-78-2	7-Oxodehydroabietic acid, methyl ester	9.95	263	ug/kg	93	NJ
	Unknown	10.22	852	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332002	Date Received: 02/18/2010 08:45	%Moisture: 10.5
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8346	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 17:28	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.07 g	Final Volume: 1 mL
Data File: s4c0414.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	372	ug/kg	74.3	372
108-95-2	Phenol	U	372	ug/kg	74.3	372
95-57-8	2-Chlorophenol	U	372	ug/kg	74.3	372
106-46-7	1,4-Dichlorobenzene	U	372	ug/kg	74.3	372
621-64-7	N-Nitrosodipropylamine	U	372	ug/kg	74.3	372
59-50-7	4-Chloro-3-methylphenol	U	372	ug/kg	74.3	372
83-32-9	Acenaphthene	U	37.2	ug/kg	12.3	37.2
121-14-2	2,4-Dinitrotoluene	U	372	ug/kg	37.2	372
100-02-7	4-Nitrophenol	U	372	ug/kg	123	372
87-86-5	Pentachlorophenol	U	372	ug/kg	92.9	372
129-00-0	Pyrene		152	ug/kg	11.2	37.2
110-86-1	Pyridine	U	372	ug/kg	74.3	372
62-53-3	Aniline	U	372	ug/kg	112	372
111-44-4	bis(2-Chloroethyl) ether	U	372	ug/kg	74.3	372
541-73-1	1,3-Dichlorobenzene	U	372	ug/kg	74.3	372
100-51-6	Benzyl alcohol	U	372	ug/kg	112	372
95-50-1	1,2-Dichlorobenzene	U	372	ug/kg	74.3	372
108-60-1	bis(2-Chloroisopropyl)ether	U	372	ug/kg	74.3	372
95-48-7	o-Cresol	U	372	ug/kg	74.3	372
65794-96-9	m,p-Cresols	U	372	ug/kg	112	372
67-72-1	Hexachloroethane	U	372	ug/kg	74.3	372
98-95-3	Nitrobenzene	U	372	ug/kg	74.3	372
78-59-1	Isophorone	U	372	ug/kg	74.3	372
88-75-5	2-Nitrophenol	U	372	ug/kg	74.3	372
105-67-9	2,4-Dimethylphenol	U	372	ug/kg	130	372
111-91-1	bis(2-Chloroethoxy)methane	U	372	ug/kg	74.3	372
120-83-2	2,4-Dichlorophenol	U	372	ug/kg	74.3	372
65-85-0	Benzoic acid	U	743	ug/kg	186	743
91-20-3	Naphthalene	U	37.2	ug/kg	11.2	37.2
106-47-8	4-Chloroaniline	U	372	ug/kg	74.3	372
87-68-3	Hexachlorobutadiene	U	372	ug/kg	74.3	372
91-57-6	2-Methylnaphthalene	U	37.2	ug/kg	7.43	37.2
77-47-4	Hexachlorocyclopentadiene	U	372	ug/kg	74.3	372
88-06-2	2,4,6-Trichlorophenol	U	372	ug/kg	74.3	372
95-95-4	2,4,5-Trichlorophenol	U	372	ug/kg	74.3	372
91-58-7	2-Chloronaphthalene	U	37.2	ug/kg	12.3	37.2
88-74-4	2-Nitroaniline	U	372	ug/kg	74.3	372
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	372	ug/kg	74.3	372

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332002	Date Received: 02/18/2010 08:45	%Moisture: 10.5
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8346	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.1	Dilution: 1
Run Date: 03/04/2010 17:28	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.07 g	Final Volume: 1 mL
Data File: s4c0414.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	372	ug/kg	74.3	372
606-20-2	2,6-Dinitrotoluene	U	372	ug/kg	37.2	372
208-96-8	Acenaphthylene	U	37.2	ug/kg	11.2	37.2
51-28-5	2,4-Dinitrophenol	U	743	ug/kg	141	743
132-64-9	Dibenzofuran	U	372	ug/kg	74.3	372
84-66-2	Diethylphthalate	U	372	ug/kg	74.3	372
86-73-7	Fluorene	J	15.4	ug/kg	11.2	37.2
7005-72-3	4-Chlorophenylphenylether	U	372	ug/kg	74.3	372
534-52-1	2-Methyl-4,6-dinitrophenol	U	372	ug/kg	74.3	372
100-01-6	4-Nitroaniline	U	372	ug/kg	112	372
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	372	ug/kg	74.3	372
122-66-7	Azobenzene	U	372	ug/kg	74.3	372
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	372	ug/kg	74.3	372
118-74-1	Hexachlorobenzene	U	372	ug/kg	74.3	372
85-01-8	Phenanthrene		189	ug/kg	11.2	37.2
120-12-7	Anthracene	J	31.0	ug/kg	7.43	37.2
84-74-2	Di-n-butylphthalate	U	372	ug/kg	74.3	372
206-44-0	Fluoranthene		226	ug/kg	11.2	37.2
85-68-7	Butylbenzylphthalate	U	372	ug/kg	74.3	372
56-55-3	Benzo(a)anthracene		101	ug/kg	11.2	37.2
91-94-1	3,3'-Dichlorobenzidine	U	372	ug/kg	112	372
218-01-9	Chrysene		81.4	ug/kg	11.2	37.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	372	ug/kg	74.3	372
117-84-0	Di-n-octylphthalate	U	372	ug/kg	74.3	372
205-99-2	Benzo(b)fluoranthene		111	ug/kg	11.2	37.2
207-08-9	Benzo(k)fluoranthene	U	37.2	ug/kg	11.2	37.2
50-32-8	Benzo(a)pyrene		59.6	ug/kg	11.2	37.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	32.4	ug/kg	11.2	37.2
53-70-3	Dibenzo(a,h)anthracene	U	37.2	ug/kg	11.2	37.2
191-24-2	Benzo(ghi)perylene	J	34.6	ug/kg	11.2	37.2
120-82-1	1,2,4-Trichlorobenzene	U	372	ug/kg	74.3	372

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	2190	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.4	390	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332002

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
39029-41-9	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	5.57	164	ug/kg	93	NJ
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	1190	ug/kg	86	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	4240	ug/kg	97	NJ
5794-03-6	Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5.84	630	ug/kg	83	NJ
	Unknown	5.88	154	ug/kg		J
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	517	ug/kg	94	NJ
77-53-2	Cedrol	6.4	2000	ug/kg	94	NJ
56324-68-6	1H-Indene, 1-ethylideneoctahydro-7a-meth	6.51	209	ug/kg	91	NJ
	Unknown	6.81	274	ug/kg		J
	Unknown	7.06	155	ug/kg		J
	Unknown	7.72	151	ug/kg		J
	Unknown	8.03	232	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	9350	ug/kg	99	NJ
	Unknown	8.94	1290	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332003

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8347
Batch ID: 956285
Run Date: 03/04/2010 17:50
Prep Date: 02/23/2010 10:34
Data File: s4c0415.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	343	ug/kg	68.5	343
108-95-2	Phenol	U	343	ug/kg	68.5	343
95-57-8	2-Chlorophenol	U	343	ug/kg	68.5	343
106-46-7	1,4-Dichlorobenzene	U	343	ug/kg	68.5	343
621-64-7	N-Nitrosodipropylamine	U	343	ug/kg	68.5	343
59-50-7	4-Chloro-3-methylphenol	U	343	ug/kg	68.5	343
83-32-9	Acenaphthene	U	34.3	ug/kg	11.3	34.3
121-14-2	2,4-Dinitrotoluene	U	343	ug/kg	34.3	343
100-02-7	4-Nitrophenol	U	343	ug/kg	113	343
87-86-5	Pentachlorophenol	U	343	ug/kg	85.7	343
129-00-0	Pyrene	U	34.3	ug/kg	10.3	34.3
110-86-1	Pyridine	U	343	ug/kg	68.5	343
62-53-3	Aniline	U	343	ug/kg	103	343
111-44-4	bis(2-Chloroethyl) ether	U	343	ug/kg	68.5	343
541-73-1	1,3-Dichlorobenzene	U	343	ug/kg	68.5	343
100-51-6	Benzyl alcohol	U	343	ug/kg	103	343
95-50-1	1,2-Dichlorobenzene	U	343	ug/kg	68.5	343
108-60-1	bis(2-Chloroisopropyl)ether	U	343	ug/kg	68.5	343
95-48-7	o-Cresol	U	343	ug/kg	68.5	343
65794-96-9	m,p-Cresols	U	343	ug/kg	103	343
67-72-1	Hexachloroethane	U	343	ug/kg	68.5	343
98-95-3	Nitrobenzene	U	343	ug/kg	68.5	343
78-59-1	Isophorone	U	343	ug/kg	68.5	343
88-75-5	2-Nitrophenol	U	343	ug/kg	68.5	343
105-67-9	2,4-Dimethylphenol	U	343	ug/kg	120	343
111-91-1	bis(2-Chloroethoxy)methane	U	343	ug/kg	68.5	343
120-83-2	2,4-Dichlorophenol	U	343	ug/kg	68.5	343
65-85-0	Benzoic acid	U	685	ug/kg	171	685
91-20-3	Naphthalene	U	34.3	ug/kg	10.3	34.3
106-47-8	4-Chloroaniline	U	343	ug/kg	68.5	343
87-68-3	Hexachlorobutadiene	U	343	ug/kg	68.5	343
91-57-6	2-Methylnaphthalene	U	34.3	ug/kg	6.85	34.3
77-47-4	Hexachlorocyclopentadiene	U	343	ug/kg	68.5	343
88-06-2	2,4,6-Trichlorophenol	U	343	ug/kg	68.5	343
95-95-4	2,4,5-Trichlorophenol	U	343	ug/kg	68.5	343
91-58-7	2-Chloronaphthalene	U	34.3	ug/kg	11.3	34.3
88-74-4	2-Nitroaniline	U	343	ug/kg	68.5	343
99-09-2	o-Nitroaniline	U	343	ug/kg	68.5	343
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332003

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8347
Batch ID: 956285
Run Date: 03/04/2010 17:50
Prep Date: 02/23/2010 10:34
Data File: s4c0415.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	343	ug/kg	68.5	343
606-20-2	2,6-Dinitrotoluene	U	343	ug/kg	34.3	343
208-96-8	Acenaphthylene	U	34.3	ug/kg	10.3	34.3
51-28-5	2,4-Dinitrophenol	U	685	ug/kg	130	685
132-64-9	Dibenzofuran	U	343	ug/kg	68.5	343
84-66-2	Diethylphthalate	U	343	ug/kg	68.5	343
86-73-7	Fluorene	U	34.3	ug/kg	10.3	34.3
7005-72-3	4-Chlorophenylphenylether	U	343	ug/kg	68.5	343
534-52-1	2-Methyl-4,6-dinitrophenol	U	343	ug/kg	68.5	343
100-01-6	4-Nitroaniline	U	343	ug/kg	103	343
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	343	ug/kg	68.5	343
122-66-7	Azobenzene	U	343	ug/kg	68.5	343
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	343	ug/kg	68.5	343
118-74-1	Hexachlorobenzene	U	343	ug/kg	68.5	343
85-01-8	Phenanthrene	U	34.3	ug/kg	10.3	34.3
120-12-7	Anthracene	U	34.3	ug/kg	6.85	34.3
84-74-2	Di-n-butylphthalate	U	343	ug/kg	68.5	343
206-44-0	Fluoranthene	U	34.3	ug/kg	10.3	34.3
85-68-7	Butylbenzylphthalate	U	343	ug/kg	68.5	343
56-55-3	Benzo(a)anthracene	U	34.3	ug/kg	10.3	34.3
91-94-1	3,3'-Dichlorobenzidine	U	343	ug/kg	103	343
218-01-9	Chrysene	U	34.3	ug/kg	10.3	34.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	343	ug/kg	68.5	343
117-84-0	Di-n-octylphthalate	U	343	ug/kg	68.5	343
205-99-2	Benzo(b)fluoranthene	U	34.3	ug/kg	10.3	34.3
207-08-9	Benzo(k)fluoranthene	U	34.3	ug/kg	10.3	34.3
50-32-8	Benzo(a)pyrene	U	34.3	ug/kg	10.3	34.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.3	ug/kg	10.3	34.3
53-70-3	Dibenzo(a,h)anthracene	U	34.3	ug/kg	10.3	34.3
191-24-2	Benzo(ghi)perylene	U	34.3	ug/kg	10.3	34.3
120-82-1	1,2,4-Trichlorobenzene	U	343	ug/kg	68.5	343

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.02	193	ug/kg		J
	Unknown Aldol Condensate	2.87	1020	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332003	Date Received: 02/18/2010 08:45	%Moisture: 2.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8347	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 17:50	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s4c0415.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	259	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.12	435	ug/kg	93	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.1	Dilution: 1
Run Date: 03/04/2010 19:42	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0420.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.4	352
108-95-2	Phenol	U	352	ug/kg	70.4	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.4	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.4	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.4	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.4	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.0	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.4	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.4	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.4	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.4	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.4	352
95-48-7	o-Cresol	U	352	ug/kg	70.4	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.4	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.4	352
78-59-1	Isophorone	U	352	ug/kg	70.4	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.4	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.4	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.4	352
65-85-0	Benzoic acid	U	704	ug/kg	176	704
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.4	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.4	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.04	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.4	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.4	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.4	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.4	352
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.4	352

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 19:42	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0420.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	352	ug/kg	70.4	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	704	ug/kg	134	704
132-64-9	Dibenzofuran	U	352	ug/kg	70.4	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.4	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.4	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.4	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.4	352
122-66-7	Azobenzene	U	352	ug/kg	70.4	352
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.4	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.4	352
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	7.04	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.4	352
206-44-0	Fluoranthene	J	13.6	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.4	352
56-55-3	Benzo(a)anthracene	U	35.2	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene	U	35.2	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.4	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.4	352
205-99-2	Benzo(b)fluoranthene	U	35.2	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	U	35.2	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.4	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	802	ug/kg		J
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	700	ug/kg	86	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 19:42	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0420.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	2380	ug/kg	99	NJ
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	5.84	332	ug/kg	90	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	290	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	922	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	5650	ug/kg	98	NJ
	Unknown	8.94	1020	ug/kg		J

QC Summary

Semi-Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1905

Matrix Type: SOLID

CAP Column (1) : J&W DB-5MS

Sample ID	Client ID	2FP %REC	PHL %REC	NBZ %REC	FBP %REC	TBP %REC	TPH %REC
1202050556	MB for batch 956255	76	72	59	64	84	83
1202050557	LCS for batch 956255	69	67	61	62	72	76
247332002	RE15-10-8346	52	52	44	49	57	87
247332003	RE15-10-8347	75	70	62	65	82	88
247332004	RE15-10-8344	75	72	62	65	91	94
247332005	RE15-10-8345	62	71	64	67	32 *	95
247332006	RE15-10-8342	70	69	58	63	71	86
247332007	RE15-10-8343	74	72	64	66	76	91
247332008	RE15-10-8377	72	71	62	66	83	95
1202063247	MB for batch 961918	75	73	79	87	89	83
1202063248	LCS for batch 961918	79	78	80	84	93	91
1202063249	LCSD for batch 961918	75	74	76	80	88	87
247332005	RE15-10-8345RE	54	65	75	88	40	82

Surrogate

2FP = 2-Fluorophenol
 PHL = Phenol-d5
 NBZ = Nitrobenzene-d5
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = p-Terphenyl-d14

Acceptance Limits

(29%-99%)
 (33%-98%)
 (31%-105%)
 (25%-109%)
 (37%-106%)
 (13%-150%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 4

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956255

Matrix: SOIL

Lab Sample ID:1202050557

Instrument: MSD4.I

Analysis Date: 03/04/2010 17:06

Dilution: 1

Analyst: JMB3

Prep Batch II 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	LCS N-Methyl-N-nitrosomethylam	1670	0.0	826	50	22-114
108-95-2	LCS Phenol	1670	0.0	1170	70	39-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1020	61	40-107
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	995	60	33-108
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	1260	75	34-113
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	940	56	42-114
83-32-9	LCS Acenaphthene	1670	0.0	1110	66	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	982	59	49-112
100-02-7	LCS 4-Nitrophenol	1670	0.0	706	42	24-113
87-86-5	LCS Pentachlorophenol	1670	0.0	925	56	27-116
129-00-0	LCS Pyrene	1670	0.0	1110	67	42-113
110-86-1	LCS Pyridine	1670	0.0	774	46	8-125
62-53-3	LCS Aniline	1670	0.0	1030	62	18-126
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	1060	63	32-103
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	926	56	32-108
100-51-6	LCS Benzyl alcohol	1670	0.0	533	32	27-108
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	1010	61	35-111
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	1060	64	28-117
95-48-7	LCS o-Cresol	1670	0.0	1170	70	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1290	78	45-121
67-72-1	LCS Hexachloroethane	1670	0.0	925	55	30-109
98-95-3	LCS Nitrobenzene	1670	0.0	1060	64	33-116

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 4

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956255

Matrix: SOIL

Lab Sample ID: 1202050557

Instrument: MSD4.I

Analysis Date: 03/04/2010 17:06

Dilution: 1

Analyst: JMB3

Prep Batch ID: 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	LCS Isophorone	1670	0.0	1050	63	35-113
88-75-5	LCS 2-Nitrophenol	1670	0.0	1030	62	31-117
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	1140	69	32-112
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1050	63	34-110
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	966	58	34-116
65-85-0	LCS Benzoic acid	3330	0.0	1880	56	22-138
91-20-3	LCS Naphthalene	1670	0.0	1130	68	35-103
106-47-8	LCS 4-Chloroaniline	1670	0.0	1080	65	20-118
87-68-3	LCS Hexachlorobutadiene	1670	0.0	999	60	31-117
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1110	67	38-115
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	675	40	22-140
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1160	69	40-110
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	923	55	43-113
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1060	63	37-111
88-74-4	LCS 2-Nitroaniline <i>o</i> -Nitroaniline	1670	0.0	983	59	41-113
99-09-2	LCS 3-Nitroaniline <i>m</i> -Nitroaniline	1670	0.0	967	58	34-125
131-11-3	LCS Dimethylphthalate	1670	0.0	1100	66	48-122
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	930	56	47-107
208-96-8	LCS Acenaphthylene	1670	0.0	1140	69	44-110
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	961	58	18-127
132-64-9	LCS Dibenzofuran	1670	0.0	1100	66	49-115
84-66-2	LCS Diethylphthalate	1670	0.0	1170	70	51-126

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 4

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956255

Matrix: SOIL

Lab Sample ID: 1202050557

Instrument: MSD4.I

Analysis Date: 03/04/2010 17:06

Dilution: 1

Analyst: JMB3

Prep Batch ID: 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	LCS Fluorene	1670	0.0	1210	72	43-109
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1120	67	45-115
534-52-1	LCS 2-Methyl-4,6-dinitrophenol	1670	0.0	917	55	32-117
100-01-6	LCS 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1370	82	33-148
122-39-4	LCS Diphenylamine	1670	0.0	1140	69	46-114
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1150	69	38-123
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1030	62	40-119
118-74-1	LCS Hexachlorobenzene	1670	0.0	1050	63	43-111
85-01-8	LCS Phenanthrene	1670	0.0	1140	69	46-107
120-12-7	LCS Anthracene	1670	0.0	1060	64	46-110
84-74-2	LCS Di-n-butylphthalate	1670	0.0	1280	77	52-132
206-44-0	LCS Fluoranthene	1670	0.0	1080	65	51-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1210	73	47-137
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1020	61	50-108
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	888	53	36-103
218-01-9	LCS Chrysene	1670	0.0	1100	66	48-111
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1140	69	48-139
117-84-0	LCS Di-n-octylphthalate	1670	0.0	930	56	42-141
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1040	63	49-114
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	987	59	50-116
50-32-8	LCS Benzo(a)pyrene	1670	0.0	1050	63	54-114
193-39-5	LCS Indeno(1,2,3-cd)pyrene	1670	0.0	1190	71	53-120

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 4

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956255

Matrix: SOIL

Lab Sample ID:1202050557

Instrument: MSD4.I

Analysis Date: 03/04/2010 17:06

Dilution: 1

Analyst: JMB3

Pre Batch II 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
53-70-3	LCS Dibenzo(a,h)anthracene	1670	0.0	1190	72	53-121
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1110	67	50-121
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1000	60	32-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 8

SDG Number: 10-1905

Sample Type: Matrix Spike

Client ID: RE16-10-1514MS

Matrix: S

Lab Sample ID: 1202050558

%Moisture: 11.3

Instrument: MSD4.I

Analysis Date: 03/05/2010 01:17

Dilution: 1

Analyst: JMB3

Prep Batch ID: 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	MS N-Methyl-N-nitrosomethylam	1880	0.00 U	763	41	27-98
108-95-2	MS Phenol	1880	0.00 U	958	51	33-94
95-57-8	MS 2-Chlorophenol	1880	0.00 U	816	43	29-96
106-46-7	MS 1,4-Dichlorobenzene	1880	0.00 U	563	30	27-96
621-64-7	MS N-Nitrosodipropylamine	1880	0.00 U	821	44	29-102
59-50-7	MS 4-Chloro-3-methylphenol	1880	0.00 U	886	47	29-110
83-32-9	MS Acenaphthene	1880	0.00 U	1010	54	17-109
121-14-2	MS 2,4-Dinitrotoluene	1880	0.00 U	962	51	33-107
100-02-7	MS 4-Nitrophenol	1880	0.00 U	1020	54	15-110
87-86-5	MS Pentachlorophenol	1880	0.00 U	1050	56	23-110
129-00-0	MS Pyrene	1880	0.00 U	1080	58	24-118
110-86-1	MS Pyridine	1880	0.00 U	688	37	25-102
62-53-3	MS Aniline	1880	0.00 U	777	41	18-109
111-44-4	MS bis(2-Chloroethyl) ether	1880	0.00 U	824	44	29-96
541-73-1	MS 1,3-Dichlorobenzene	1880	0.00 U	720	38	26-97
100-51-6	MS Benzyl alcohol	1880	0.00 U	1010	54	19-112
95-50-1	MS 1,2-Dichlorobenzene	1880	0.00 U	681	36	30-97
108-60-1	MS bis(2-Chloroisopropyl)ether	1880	0.00 U	905	48	28-103
95-48-7	MS o-Cresol	1880	0.00 U	654	35	32-107
65794-96-9	MS m,p-Cresols	1880	0.00 U	1010	54	33-115
67-72-1	MS Hexachloroethane	1880	0.00 U	516	27	25-100
98-95-3	MS Nitrobenzene	1880	0.00 U	783	42	27-106

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 8

SDG Number: 10-1905

Sample Type: Matrix Spike

Client ID: RE16-10-1514MS

Matrix: S

Lab Sample ID: 1202050558

%Moisture: 11.3

Instrument: MSD4.I

Analysis Date: 03/05/2010 01:17

Dilution: 1

Analyst: JMB3

Pre Batch II 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	MS Isophorone	1880	0.00 U	774	41	29-104
88-75-5	MS 2-Nitrophenol	1880	0.00 U	854	45	26-102
105-67-9	MS 2,4-Dimethylphenol	1880	0.00 U	975	52	22-104
111-91-1	MS bis(2-Chloroethoxy)methane	1880	0.00 U	756	40	27-101
120-83-2	MS 2,4-Dichlorophenol	1880	0.00 U	819	44	26-103
65-85-0	MS Benzoic acid	3760	0.00 U	1880	50	13-131
91-20-3	MS Naphthalene	1880	0.00 U	897	48	23-103
106-47-8	MS 4-Chloroaniline	1880	0.00 U	841	45	26-103
87-68-3	MS Hexachlorobutadiene	1880	0.00 U	671	36	28-101
91-57-6	MS 2-Methylnaphthalene	1880	0.00 U	975	52	27-106
77-47-4	MS Hexachlorocyclopentadiene	1880	0.00 U	412	22 *	24-117
88-06-2	MS 2,4,6-Trichlorophenol	1880	0.00 U	1060	56	26-105
95-95-4	MS 2,4,5-Trichlorophenol	1880	0.00 U	996	53	30-110
91-58-7	MS 2-Chloronaphthalene	1880	0.00 U	849	45	28-102
88-74-4	MS 2-Nitroaniline <i>o</i> -Nitroaniline	1880	0.00 U	908	48	33-106
99-09-2	MS 3-Nitroaniline <i>m</i> -Nitroaniline	1880	0.00 U	1070	57	33-116
131-11-3	MS Dimethylphthalate	1880	0.00 U	960	51	38-113
606-20-2	MS 2,6-Dinitrotoluene	1880	0.00 U	873	46	29-107
208-96-8	MS Acenaphthylene	1880	0.00 U	1050	56	25-108
51-28-5	MS 2,4-Dinitrophenol	1880	0.00 U	1060	57	14-102
132-64-9	MS Dibenzofuran	1880	0.00 U	997	53	35-112
84-66-2	MS Diethylphthalate	1880	0.00 U	1070	57	36-122

Semi-Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Sample Type: Matrix Spike

Client ID: RE16-10-1514MS

Matrix: S

Lab Sample ID: 1202050558

%Moisture: 11.3

Instrument: MSD4.I

Analysis Date: 03/05/2010 01:17

Dilution: 1

Analyst: JMB3

Prep Batch II 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	MS Fluorene	1880	0.00 U	1110	59	33-105
7005-72-3	MS 4-Chlorophenylphenylether	1880	0.00 U	1020	54	30-110
534-52-1	MS 2-Methyl-4,6-dinitrophenol	1880	0.00 U	888	47	26-97
100-01-6	MS 4-Nitroaniline <i>p</i> -Nitroaniline	1880	0.00 U	1270	67	28-135
122-39-4	MS Diphenylamine	1880	0.00 U	992	53	33-109
122-66-7	MS Azobenzene <i>1,2</i> -Diphenylhydrazine	1880	0.00 U	962	51	31-113
101-55-3	MS 4-Bromophenylphenylether	1880	0.00 U	908	48	31-109
118-74-1	MS Hexachlorobenzene	1880	0.00 U	866	46	37-99
85-01-8	MS Phenanthrene	1880	0.00 U	1020	55	29-109
120-12-7	MS Anthracene	1880	0.00 U	990	53	19-118
84-74-2	MS Di-n-butylphthalate	1880	0.00 U	1150	61	39-123
206-44-0	MS Fluoranthene	1880	0.00 U	1010	54	33-114
85-68-7	MS Butylbenzylphthalate	1880	0.00 U	1230	66	35-131
56-55-3	MS Benzo(a)anthracene	1880	0.00 U	958	51	30-111
91-94-1	MS 3,3'-Dichlorobenzidine	1880	0.00 U	846	45	30-124
218-01-9	MS Chrysene	1880	0.00 U	865	46	32-108
117-81-7	MS bis(2-Ethylhexyl)phthalate	1880	0.00 U	1170	62	37-129
117-84-0	MS Di-n-octylphthalate	1880	0.00 U	1410	75	31-143
205-99-2	MS Benzo(b)fluoranthene	1880	0.00 U	990	53	29-118
207-08-9	MS Benzo(k)fluoranthene	1880	0.00 U	986	53	32-118
50-32-8	MS Benzo(a)pyrene	1880	0.00 U	925	49	33-115
193-39-5	MS Indeno(1,2,3-cd)pyrene	1880	0.00 U	757	40	29-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 8

SDG Number: 10-1905

Sample Type: Matrix Spike

Client ID: RE16-10-1514MS

Matrix: S

Lab Sample ID: 1202050558

% Moisture: 11.3

Instrument: MSD4.I

Analysis Date: 03/05/2010 01:17

Dilution: 1

Analyst: JMB3

Prep Batch ID: 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
53-70-3	MS Dibenzo(a,h)anthracene	1880	0.00 U	798	43	27-119
191-24-2	MS Benzo(ghi)perylene	1880	0.00 U	665	35	28-112
120-82-1	MS 1,2,4-Trichlorobenzene	1880	0.00 U	771	41	28-99

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1905

Sample Type: Matrix Spike Duplicate

Client ID: RE16-10-1514MSD

Matrix: S

Lab Sample ID: 1202050559

%Moisture: 11.3

Instrument: MSD4.I

Analysis Date: 03/05/2010 01:39

Dilution: 1

Analyst: JMB3

Pre Batch ID: 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
62-75-9	MSD N-Methyl-N-nitrosomethylam	1880	0.00 U	565	30	27-98	30	0-30
108-95-2	MSD Phenol	1880	0.00 U	852	45	33-94	12	0-30
95-57-8	MSD 2-Chlorophenol	1880	0.00 U	739	39	29-96	10	0-30
106-46-7	MSD 1,4-Dichlorobenzene	1880	0.00 U	459	24 *	27-96	20	0-30
621-64-7	MSD N-Nitrosodipropylamine	1880	0.00 U	858	46	29-102	4	0-30
59-50-7	MSD 4-Chloro-3-methylphenol	1880	0.00 U	928	49	29-110	5	0-30
83-32-9	MSD Acenaphthene	1880	0.00 U	873	47	17-109	15	0-30
121-14-2	MSD 2,4-Dinitrotoluene	1880	0.00 U	927	49	33-107	4	0-30
100-02-7	MSD 4-Nitrophenol	1880	0.00 U	845	45	15-110	19	0-30
87-86-5	MSD Pentachlorophenol	1880	0.00 U	990	53	23-110	6	0-30
129-00-0	MSD Pyrene	1880	0.00 U	1140	61	24-118	6	0-30
110-86-1	MSD Pyridine	1880	0.00 U	473	25	25-102	37 *	0-30
62-53-3	MSD Aniline	1880	0.00 U	602	32	18-109	25	0-30
111-44-4	MSD bis(2-Chloroethyl) ether	1880	0.00 U	674	36	29-96	20	0-30
541-73-1	MSD 1,3-Dichlorobenzene	1880	0.00 U	416	22 *	26-97	54 *	0-30
100-51-6	MSD Benzyl alcohol	1880	0.00 U	0.00	0 *	19-112	200 *	0-30
95-50-1	MSD 1,2-Dichlorobenzene	1880	0.00 U	511	27 *	30-97	28	0-30
108-60-1	MSD bis(2-Chloroisopropyl)ether	1880	0.00 U	697	37	28-103	26	0-30
95-48-7	MSD o-Cresol	1880	0.00 U	1110	59	32-107	52 *	0-30
65794-96-9	MSD m,p-Cresols	1880	0.00 U	1050	56	33-115	5	0-30
67-72-1	MSD Hexachloroethane	1880	0.00 U	370	20 *	25-100	33 *	0-30
98-95-3	MSD Nitrobenzene	1880	0.00 U	713	38	27-106	9	0-30

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Sample Type: Matrix Spike Duplicate

Client ID: RE16-10-1514MSD

Matrix: S

Lab Sample ID: 1202050559

%Moisture: 11.3

Instrument: MSD4.I

Analysis Date: 03/05/2010 01:39

Dilution: 1

Analyst: JMB3

Pren Batch II 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	U	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
78-59-1	MSD Isophorone	1880	0.00	U	810	43	29-104	5	0-30
88-75-5	MSD 2-Nitrophenol	1880	0.00	U	827	44	26-102	3	0-30
105-67-9	MSD 2,4-Dimethylphenol	1880	0.00	U	942	50	22-104	3	0-30
111-91-1	MSD bis(2-Chloroethoxy)methane	1880	0.00	U	810	43	27-101	7	0-30
120-83-2	MSD 2,4-Dichlorophenol	1880	0.00	U	874	47	26-103	7	0-30
65-85-0	MSD Benzoic acid	3750	0.00	U	1860	49	13-131	1	0-30
91-20-3	MSD Naphthalene	1880	0.00	U	744	40	23-103	19	0-30
106-47-8	MSD 4-Chloroaniline	1880	0.00	U	770	41	26-103	9	0-30
87-68-3	MSD Hexachlorobutadiene	1880	0.00	U	553	29	28-101	19	0-30
91-57-6	MSD 2-Methylnaphthalene	1880	0.00	U	851	45	27-106	14	0-30
77-47-4	MSD Hexachlorocyclopentadiene	1880	0.00	U	372	20 *	24-117	10	0-30
88-06-2	MSD 2,4,6-Trichlorophenol	1880	0.00	U	949	51	26-105	11	0-30
95-95-4	MSD 2,4,5-Trichlorophenol	1880	0.00	U	949	51	30-110	5	0-30
91-58-7	MSD 2-Chloronaphthalene	1880	0.00	U	821	44	28-102	3	0-30
88-74-4	MSD 2-Nitroaniline	1880	0.00	U	884	47	33-106	3	0-30
99-09-2	MSD 3-Nitroaniline	1880	0.00	U	932	50	33-116	14	0-30
131-11-3	MSD Dimethylphthalate	1880	0.00	U	935	50	38-113	3	0-30
606-20-2	MSD 2,6-Dinitrotoluene	1880	0.00	U	855	46	29-107	2	0-30
208-96-8	MSD Acenaphthylene	1880	0.00	U	928	49	25-108	13	0-30
51-28-5	MSD 2,4-Dinitrophenol	1880	0.00	U	886	47	14-102	18	0-30
132-64-9	MSD Dibenzofuran	1880	0.00	U	943	50	35-112	6	0-30
84-66-2	MSD Diethylphthalate	1880	0.00	U	1050	56	36-122	2	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1905

Sample Type: Matrix Spike Duplicate

Client ID: RE16-10-1514MSD

Matrix: S

Lab Sample ID: 1202050559

% Moisture: 11.3

Instrument: MSD4.I

Analysis Date: 03/05/2010 01:39

Dilution: 1

Analyst: JMB3

Prep Batch II 956255

Inj. Vol: .5 uL

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
86-73-7	MSD Fluorene	1880	0.00 U	1020	54	33-105	9	0-30
7005-72-3	MSD 4-Chlorophenylphenylether	1880	0.00 U	964	51	30-110	6	0-30
534-52-1	MSD 2-Methyl-4,6-dinitrophenol	1880	0.00 U	815	43	26-97	9	0-30
100-01-6	MSD 4-Nitroaniline <i>p</i> -Nitroaniline	1880	0.00 U	1240	66	28-135	2	0-30
122-39-4	MSD Diphenylamine	1880	0.00 U	1040	55	33-109	5	0-30
122-66-7	MSD Azobenzene <i>1,2</i> -Diphenylhydrazine	1880	0.00 U	1000	53	31-113	4	0-30
101-55-3	MSD 4-Bromophenylphenylether	1880	0.00 U	934	50	31-109	3	0-30
118-74-1	MSD Hexachlorobenzene	1880	0.00 U	901	48	37-99	4	0-30
85-01-8	MSD Phenanthrene	1880	0.00 U	981	52	29-109	4	0-30
120-12-7	MSD Anthracene	1880	0.00 U	986	53	19-118	0	0-30
84-74-2	MSD Di-n-butylphthalate	1880	0.00 U	1170	62	39-123	2	0-30
206-44-0	MSD Fluoranthene	1880	0.00 U	988	53	33-114	2	0-30
85-68-7	MSD Butylbenzylphthalate	1880	0.00 U	1310	70	35-131	6	0-30
56-55-3	MSD Benzo(a)anthracene	1880	0.00 U	949	51	30-111	1	0-30
91-94-1	MSD 3,3'-Dichlorobenzidine	1880	0.00 U	942	50	30-124	11	0-30
218-01-9	MSD Chrysene	1880	0.00 U	973	52	32-108	12	0-30
117-81-7	MSD bis(2-Ethylhexyl)phthalate	1880	0.00 U	1220	65	37-129	5	0-30
117-84-0	MSD Di-n-octylphthalate	1880	0.00 U	1370	73	31-143	3	0-30
205-99-2	MSD Benzo(b)fluoranthene	1880	0.00 U	1010	54	29-118	2	0-30
207-08-9	MSD Benzo(k)fluoranthene	1880	0.00 U	1100	58	32-118	11	0-30
50-32-8	MSD Benzo(a)pyrene	1880	0.00 U	1010	54	33-115	9	0-30
193-39-5	MSD Indeno(1,2,3-cd)pyrene	1880	0.00 U	944	50	29-114	22	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1905

Client ID: RE16-10-1514MSD

Lab Sample ID: 1202050559

Instrument: MSD4.I

Analyst: JMB3

Inj. Vol: .5 uL

Sample Type: Matrix Spike Duplicate

Matrix: S

%Moisture: 11.3

Analysis Date: 03/05/2010 01:39

Dilution: 1

Prep Batch ID: 956255

Batch ID: 956285

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
53-70-3	MSD Dibenzo(a,h)anthracene	1880	0.00 U	971	52	27-119	20	0-30
191-24-2	MSD Benzo(ghi)perylene	1880	0.00 U	831	44	28-112	22	0-30
120-82-1	MSD 1,2,4-Trichlorobenzene	1880	0.00 U	646	34	28-99	18	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 8

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 961918

Matrix: SOIL

Lab Sample ID: 1202063248

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:28

Dilution: 1

Analyst: JMB3

Prep Batch II 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	LCS N-Methyl-N-nitrosomethylam	1670	0.0	1120	67	22-114
108-95-2	LCS Phenol	1670	0.0	1340	80	39-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1480	89	40-107
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	1340	80	33-108
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	1480	89	34-113
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	1390	84	42-114
83-32-9	LCS Acenaphthene	1670	0.0	1490	90	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	1580	95	49-112
100-02-7	LCS 4-Nitrophenol	1670	0.0	1640	99	24-113
87-86-5	LCS Pentachlorophenol	1670	0.0	1560	93	27-116
129-00-0	LCS Pyrene	1670	0.0	1330	80	42-113
110-86-1	LCS Pyridine	1670	0.0	1270	76	8-125
62-53-3	LCS Aniline	1670	0.0	949	57	18-126
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	1120	67	32-103
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	1330	80	32-108
100-51-6	LCS Benzyl alcohol	1670	0.0	748	45	27-108
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	1400	84	35-111
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	1310	79	28-117
95-48-7	LCS o-Cresol	1670	0.0	1430	86	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1660	100	45-121
67-72-1	LCS Hexachloroethane	1670	0.0	1300	78	30-109
98-95-3	LCS Nitrobenzene	1670	0.0	1410	85	33-116

Semi-Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 961918

Matrix: SOIL

Lab Sample ID: 1202063248

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:28

Dilution: 1

Analyst: JMB3

Prep Batch ID: 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	LCS Isophorone	1670	0.0	1340	81	35-113
88-75-5	LCS 2-Nitrophenol	1670	0.0	1540	92	31-117
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	1160	70	32-112
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1370	82	34-110
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	1450	87	34-116
65-85-0	LCS Benzoic acid	3330	0.0	4110	123	22-138
91-20-3	LCS Naphthalene	1670	0.0	1380	83	35-103
106-47-8	LCS 4-Chloroaniline	1670	0.0	1050	63	20-118
87-68-3	LCS Hexachlorobutadiene	1670	0.0	1360	81	31-117
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1410	85	38-115
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	1750	105	22-140
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1500	90	40-110
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	1720	103	43-113
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1360	82	37-111
88-74-4	LCS 2-Nitroaniline <i>o</i> -Nitroaniline	1670	0.0	1350	81	41-113
99-09-2	LCS 3-Nitroaniline <i>m</i> -Nitroaniline	1670	0.0	1300	78	34-125
131-11-3	LCS Dimethylphthalate	1670	0.0	1560	94	48-122
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	1570	94	47-107
208-96-8	LCS Acenaphthylene	1670	0.0	1490	90	44-110
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	2320	139 *	18-127
132-64-9	LCS Dibenzofuran	1670	0.0	1490	89	49-115
84-66-2	LCS Diethylphthalate	1670	0.0	1600	96	51-126

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 961918

Matrix: SOIL

Lab Sample ID: 1202063248

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:28

Dilution: 1

Analyst: JMB3

Pre Batch II 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	LCS Fluorene	1670	0.0	1460	88	43-109
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1530	92	45-115
534-52-1	LCS 2-Methyl-4,6-dinitrophenol	1670	0.0	1990	119 *	32-117
100-01-6	LCS 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1720	103	33-148
122-39-4	LCS Diphenylamine	1670	0.0	1580	95	46-114
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1500	90	38-123
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1520	91	40-119
118-74-1	LCS Hexachlorobenzene	1670	0.0	1490	90	43-111
85-01-8	LCS Phenanthrene	1670	0.0	1500	90	46-107
120-12-7	LCS Anthracene	1670	0.0	1490	89	46-110
84-74-2	LCS Di-n-butylphthalate	1670	0.0	1600	96	52-132
206-44-0	LCS Fluoranthene	1670	0.0	1610	97	51-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1470	88	47-137
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1480	89	50-108
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	1260	76	36-103
218-01-9	LCS Chrysene	1670	0.0	1540	92	48-111
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1600	96	48-139
117-84-0	LCS Di-n-octylphthalate	1670	0.0	1490	89	42-141
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1450	87	49-114
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	1560	94	50-116
50-32-8	LCS Benzo(a)pyrene	1670	0.0	1560	94	54-114
193-39-5	LCS Indeno(1,2,3-cd)pyrene	1670	0.0	1820	109	53-120

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 8

SDG Number: 10-1905

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 961918

Matrix: SOIL

Lab Sample ID:1202063248

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:28

Dilution: 1

Analyst: JMB3

Prep Batch ID: 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
53-70-3	LCS Dibenzo(a,h)anthracene	1670	0.0	1890	113	53-121
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1750	105	50-121
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1370	82	32-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1905

Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 961918

Matrix: SOIL

Lab Sample ID: 1202063249

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:50

Dilution: 1

Analyst: JMB3

Pre Batch II 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
62-75-9	LCSD N-Methyl-N-nitrosomethylam	1670	0.0	1090	65	22-114	3	0-37
108-95-2	LCSD Phenol	1670	0.0	1280	77	39-104	4	0-35
95-57-8	LCSD 2-Chlorophenol	1670	0.0	1400	84	40-107	5	0-30
106-46-7	LCSD 1,4-Dichlorobenzene	1670	0.0	1290	78	33-108	4	0-30
621-64-7	LCSD N-Nitrosodipropylamine	1670	0.0	1410	85	34-113	5	0-35
59-50-7	LCSD 4-Chloro-3-methylphenol	1670	0.0	1320	79	42-114	6	0-30
83-32-9	LCSD Acenaphthene	1670	0.0	1400	84	40-105	6	0-30
121-14-2	LCSD 2,4-Dinitrotoluene	1670	0.0	1470	88	49-112	7	0-30
100-02-7	LCSD 4-Nitrophenol	1670	0.0	1470	88	24-113	12	0-30
87-86-5	LCSD Pentachlorophenol	1670	0.0	1720	103	27-116	10	0-30
129-00-0	LCSD Pyrene	1670	0.0	1280	77	42-113	3	0-34
110-86-1	LCSD Pyridine	1670	0.0	1240	75	8-125	2	0-37
62-53-3	LCSD Aniline	1670	0.0	886	53	18-126	7	0-30
111-44-4	LCSD bis(2-Chloroethyl) ether	1670	0.0	1090	65	32-103	3	0-36
541-73-1	LCSD 1,3-Dichlorobenzene	1670	0.0	1280	77	32-108	3	0-30
100-51-6	LCSD Benzyl alcohol	1670	0.0	645	39	27-108	15	0-30
95-50-1	LCSD 1,2-Dichlorobenzene	1670	0.0	1350	81	35-111	4	0-30
108-60-1	LCSD bis(2-Chloroisopropyl)ether	1670	0.0	1250	75	28-117	5	0-34
95-48-7	LCSD o-Cresol	1670	0.0	1370	82	39-111	4	0-29
65794-96-9	LCSD m,p-Cresols	1670	0.0	1590	95	45-121	5	0-28
67-72-1	LCSD Hexachloroethane	1670	0.0	1260	76	30-109	3	0-34
98-95-3	LCSD Nitrobenzene	1670	0.0	1310	79	33-116	7	0-33

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 6 of 8

SDG Number: 10-1905

Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 961918

Matrix: SOIL

Lab Sample ID: 1202063249

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:50

Dilution: 1

Analyst: JMB3

Pren Batch II 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
78-59-1	LCSD Isophorone	1670	0.0	1270	76	35-113	6	0-34
88-75-5	LCSD 2-Nitrophenol	1670	0.0	1470	88	31-117	5	0-30
105-67-9	LCSD 2,4-Dimethylphenol	1670	0.0	1080	65	32-112	7	0-30
111-91-1	LCSD bis(2-Chloroethoxy)methane	1670	0.0	1300	78	34-110	5	0-34
120-83-2	LCSD 2,4-Dichlorophenol	1670	0.0	1410	84	34-116	3	0-30
65-85-0	LCSD Benzoic acid	3330	0.0	3410	102	22-138	19	0-30
91-20-3	LCSD Naphthalene	1670	0.0	1320	79	35-103	5	0-33
106-47-8	LCSD 4-Chloroaniline	1670	0.0	1050	63	20-118	1	0-30
87-68-3	LCSD Hexachlorobutadiene	1670	0.0	1330	80	31-117	2	0-32
91-57-6	LCSD 2-Methylnaphthalene	1670	0.0	1340	80	38-115	5	0-30
77-47-4	LCSD Hexachlorocyclopentadiene	1670	0.0	1610	97	22-140	8	0-30
88-06-2	LCSD 2,4,6-Trichlorophenol	1670	0.0	1370	82	40-110	9	0-30
95-95-4	LCSD 2,4,5-Trichlorophenol	1670	0.0	1680	101	43-113	2	0-30
91-58-7	LCSD 2-Chloronaphthalene	1670	0.0	1310	79	37-111	4	0-30
88-74-4	LCSD 2-Nitroaniline <i>o</i> -Nitroaniline	1670	0.0	1250	75	41-113	8	0-30
99-09-2	LCSD 3-Nitroaniline <i>m</i> -Nitroaniline	1670	0.0	1220	73	34-125	6	0-26
131-11-3	LCSD Dimethylphthalate	1670	0.0	1490	89	48-122	5	0-33
606-20-2	LCSD 2,6-Dinitrotoluene	1670	0.0	1480	89	47-107	6	0-30
208-96-8	LCSD Acenaphthylene	1670	0.0	1410	85	44-110	6	0-30
51-28-5	LCSD 2,4-Dinitrophenol	1670	0.0	2080	125	18-127	11	0-30
132-64-9	LCSD Dibenzofuran	1670	0.0	1420	85	49-115	5	0-24
84-66-2	LCSD Diethylphthalate	1670	0.0	1500	90	51-126	6	0-32

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 7 of 8

SDG Number: 10-1905

Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 961918

Matrix: SOIL

Lab Sample ID: 1202063249

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:50

Dilution: 1

Analyst: JMB3

Pre Batch II 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
86-73-7	LCSD Fluorene	1670	0.0	1380	83	43-109	6	0-30
7005-72-3	LCSD 4-Chlorophenylphenylether	1670	0.0	1450	87	45-115	6	0-30
534-52-1	LCSD 2-Methyl-4,6-dinitrophenol	1670	0.0	1810	109	32-117	9	0-30
100-01-6	LCSD 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1620	97	33-148	6	0-30
122-39-4	LCSD Diphenylamine	1670	0.0	1490	89	46-114	6	0-32
122-66-7	LCSD Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1410	85	38-123	6	0-30
101-55-3	LCSD 4-Bromophenylphenylether	1670	0.0	1440	86	40-119	6	0-30
118-74-1	LCSD Hexachlorobenzene	1670	0.0	1400	84	43-111	6	0-32
85-01-8	LCSD Phenanthrene	1670	0.0	1400	84	46-107	7	0-34
120-12-7	LCSD Anthracene	1670	0.0	1400	84	46-110	6	0-30
84-74-2	LCSD Di-n-butylphthalate	1670	0.0	1510	90	52-132	6	0-33
206-44-0	LCSD Fluoranthene	1670	0.0	1530	92	51-115	5	0-34
85-68-7	LCSD Butylbenzylphthalate	1670	0.0	1420	85	47-137	4	0-35
56-55-3	LCSD Benzo(a)anthracene	1670	0.0	1400	84	50-108	5	0-30
91-94-1	LCSD 3,3'-Dichlorobenzidine	1670	0.0	1140	68	36-103	10	0-30
218-01-9	LCSD Chrysene	1670	0.0	1470	88	48-111	4	0-33
117-81-7	LCSD bis(2-Ethylhexyl)phthalate	1670	0.0	1550	93	48-139	4	0-36
117-84-0	LCSD Di-n-octylphthalate	1670	0.0	1490	89	42-141	0	0-37
205-99-2	LCSD Benzo(b)fluoranthene	1670	0.0	1480	89	49-114	2	0-35
207-08-9	LCSD Benzo(k)fluoranthene	1670	0.0	1410	85	50-116	10	0-37
50-32-8	LCSD Benzo(a)pyrene	1670	0.0	1480	89	54-114	5	0-30
193-39-5	LCSD Indeno(1,2,3-cd)pyrene	1670	0.0	1690	101	53-120	8	0-33

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 961918

Matrix: SOIL

Lab Sample ID: 1202063249

Instrument: MSD7.I

Analysis Date: 03/08/2010 12:50

Dilution: 1

Analyst: JMB3

Pre Batch II 961918

Inj. Vol: .5 uL

Batch ID: 961919

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
53-70-3	LCSD Dibenzo(a,h)anthracene	1670	0.0	1740	104	53-121	8	0-33
191-24-2	LCSD Benzo(ghi)perylene	1670	0.0	1610	97	50-121	8	0-34
120-82-1	LCSD 1,2,4-Trichlorobenzene	1670	0.0	1330	80	32-114	3	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1905	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 956255	Instrument ID:	MSD4.I	Data File:	s4c0412-1.d
Lab Sample ID:	1202050556	Prep Date:	02/23/2010 10:34	Analyzed:	03/04/10 16:43
Column:	J&W DB-5MS	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 956255	1202050557	s4c0413-1.d	03/04/10	1706
02 RE15-10-8346	247332002	s4c0414.d	03/04/10	1728
03 RE15-10-8347	247332003	s4c0415.d	03/04/10	1750
04 RE15-10-8344	247332004	s4c0416.d	03/04/10	1812
05 RE15-10-8345	247332005	s4c0417.d	03/04/10	1835
06 RE15-10-8342	247332006	s4c0418.d	03/04/10	1857
07 RE15-10-8343	247332007	s4c0419.d	03/04/10	1919
08 RE15-10-8377	247332008	s4c0420.d	03/04/10	1942

Method Blank Summary

Page 1 of 1

SDG Number:	10-1905	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 961918	Instrument ID:	MSD7.I	Data File:	s7c0808-1.d
Lab Sample ID:	1202063247	Prep Date:	03/07/2010 12:11	Analyzed:	03/08/10 12:07
Column:	J&W DB-5MS	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 961918	1202063248	s7c0809-1.d	03/08/10	1228
02 LCSD for batch 961918	1202063249	s7c0810-1.d	03/08/10	1250
03 RE15-10-8345RE	247332005	s7c0813.d	03/08/10	1354

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: MSD4.I

Injection Date/Time: 04-MAR-10 15:36

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s030410a.b/s4c0409.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	41.7
68	Less than 2% of mass 69	1.3
69	Mass 69 Relative Abundance	45.9
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	58.5
197	0 - 1% of mass 198	0.3
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	23.5
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	79.4
442	Greater than 40% of mass 198	49.6
443	17 - 23% of mass 442	19.6

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGACVS	WBN100225-05.4	s4c0410.d	04-MAR-10 15:49
APCVS	WBN100218-03.5	s4c0411.d	04-MAR-10 16:21
SBLK01	1202050556	s4c0412-1.d	04-MAR-10 16:43
SBLK01LCS	1202050557	s4c0413-1.d	04-MAR-10 17:06
RE15-10-8346	247332002	s4c0414.d	04-MAR-10 17:28
RE15-10-8347	247332003	s4c0415.d	04-MAR-10 17:50
RE15-10-8344	247332004	s4c0416.d	04-MAR-10 18:12
RE15-10-8345	247332005	s4c0417.d	04-MAR-10 18:35
RE15-10-8342	247332006	s4c0418.d	04-MAR-10 18:57
RE15-10-8343	247332007	s4c0419.d	04-MAR-10 19:19
RE15-10-8377	247332008	s4c0420.d	04-MAR-10 19:42

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: MSD4.I

Injection Date/Time: 25-FEB-10 09:00

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s022410a.b/s4b2446.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	37.3
68	Less than 2% of mass 69	1.3
69	Mass 69 Relative Abundance	41.7
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	55
197	0 - 1% of mass 198	0.4
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	23
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	48
442	Greater than 40% of mass 198	56.6
443	17 - 23% of mass 442	19.8

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGA001	WBN100215-08	s4b2448.d	25-FEB-10 09:39
MEGA010	WBN100215-07	s4b2449.d	25-FEB-10 10:06
MEGA020	WBN100215-06	s4b2450.d	25-FEB-10 10:32
MEGA040	WBN100215-05.1	s4b2451.d	25-FEB-10 10:59
MEGA050	WBN100215-04	s4b2452.d	25-FEB-10 11:26
MEGA080	WBN100215-03	s4b2453.d	25-FEB-10 11:52
MEGA100	WBN100215-02	s4b2454.d	25-FEB-10 12:19
MEGA120	WBN100215-01	s4b2455.d	25-FEB-10 12:46
AP010	WBN100218-01	s4b2456.d	25-FEB-10 13:38
AP020	WBN100218-02	s4b2457.d	25-FEB-10 14:00
AP040	WBN100218-03.1	s4b2458.d	25-FEB-10 14:21
AP050	WBN100218-04	s4b2459.d	25-FEB-10 14:43
AP080	WBN100218-05	s4b2460.d	25-FEB-10 15:05
AP0100	WBN100218-06	s4b2461.d	25-FEB-10 15:27
AP120	WBN100218-07	s4b2462.d	25-FEB-10 15:48
MEGAICV	WBN100215-09.1	s4b2463.d	25-FEB-10 16:10

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: MSD4.1

Injection Date/Time: 25-FEB-10 09:00

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s022410a.b/s4b2446.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	37.3
68	Less than 2% of mass 69	1.3
69	Mass 69 Relative Abundance	41.7
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	55
197	0 - 1% of mass 198	0.4
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	23
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	48
442	Greater than 40% of mass 198	56.6
443	17 - 23% of mass 442	19.8

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
APICV	WBN100218-08.1	s4b2465.d	25-FEB-10 17:05

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: MSD7.I

Injection Date/Time: 08-MAR-10 10:25

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD7.i/s030810.b/s7c0803.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	57.3
68	Less than 2% of mass 69	1.4
69	Mass 69 Relative Abundance	48.8
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	53.2
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	22.7
365	Greater than 1% of mass 198	2.4
441	Present, but less than mass 443	77.4
442	Greater than 40% of mass 198	63.3
443	17 - 23% of mass 442	19.4

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGACVS	WBN100225-05.4	s7c0804.d	08-MAR-10 10:38
APCVS	WBN100218-03.5	s7c0805.d	08-MAR-10 11:02
SBLK02	1202063247	s7c0808-1.d	08-MAR-10 12:07
SBLK02LCS	1202063248	s7c0809-1.d	08-MAR-10 12:28
SBLK02LCSD	1202063249	s7c0810-1.d	08-MAR-10 12:50
RE15-10-8345RE	247332005	s7c0813.d	08-MAR-10 13:54

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: MSD7.I

Injection Date/Time: 26-FEB-10 10:23

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD7.i/s022610.b/s7b2601.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	59.4
68	Less than 2% of mass 69	0.6
69	Mass 69 Relative Abundance	48.9
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	54.1
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.6
275	10 - 30% of mass 198	23.2
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	79.7
442	Greater than 40% of mass 198	71.6
443	17 - 23% of mass 442	19.2

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGA001	WBN100225-08	s7b2603.d	26-FEB-10 11:07
MEGA040	WBN100225-05.1	s7b2606.d	26-FEB-10 12:19
MEGA050	WBN100225-04	s7b2607.d	26-FEB-10 12:43
MEGA080	WBN100225-03	s7b2608.d	26-FEB-10 13:07
MEGA100	WBN100225-02	s7b2609.d	26-FEB-10 13:32
MEGA120	WBN100225-01	s7b2610.d	26-FEB-10 13:56
MEGA010	WBN100225-07	s7b2612.d	26-FEB-10 14:44
MEGA020	WBN100225-06	s7b2613.d	26-FEB-10 15:08
MEGAICV	WBN100225-09.1	s7b2614.d	26-FEB-10 15:33

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1905

Instrument ID: MSD7.1

Injection Date/Time: 26-FEB-10 16:00

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD7.1/s022610.b/s7b2615.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	59
68	Less than 2% of mass 69	0
69	Mass 69 Relative Abundance	49.2
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	55.5
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	23.3
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	78.7
442	Greater than 40% of mass 198	68.1
443	17 - 23% of mass 442	19.4

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
AP010	WBN100218-01	s7b2617.d	26-FEB-10 16:34
AP020	WBN100218-02	s7b2618.d	26-FEB-10 16:56
AP040	WBN100218-03.1	s7b2619.d	26-FEB-10 17:17
AP050	WBN100218-04	s7b2620.d	26-FEB-10 17:39
AP080	WBN100218-05	s7b2621.d	26-FEB-10 18:00
AP100	WBN100218-06	s7b2622.d	26-FEB-10 18:22
AP120	WBN100218-07	s7b2623.d	26-FEB-10 18:43
APICV	WBN100218-08.1	s7b2638.d	27-FEB-10 00:07

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1905

Instrument: MSD4.I

STD Analysis Time: 04-MAR-10 15:49

GC Column: J&W DB-5MS

Data File: s4c0410.d

	1,4-Dichlorobenzene-d4			Naphthalene-d8			Acenaphthene-d10			Phenanthrene-d10			Chrysene-d12			Perylene-d12		
	Area	#	RT #	Area	#	RT #	Area	#	RT #	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	148556		3.83	619539		4.69	296815		5.94	516247		6.94	441582		8.61	314762		10.1
Upper Limit	297112		4.33	1239078		5.19	593630		6.44	1032494		7.44	883164		9.11	629524		10.6
Lower Limit	74278		3.33	309770		4.19	148408		5.44	258124		6.44	220791		8.11	157381		9.57
Sample ID																		
BLK01	135876		3.82	503308		4.68	294729		5.94	519093		6.94	468013		8.6	368391		10.1
BLK01LCS	145560		3.82	587408		4.69	292795		5.94	490864		6.94	358428		8.6	281106		10.1
RE15-10-8346	142600		3.82	519998		4.69	318300		5.94	523222		6.94	406728		8.6	287939		10.1
RE15-10-8347	149394		3.82	560353		4.68	324799		5.94	562380		6.94	460437		8.6	335993		10.1
RE15-10-8344	155729		3.82	580005		4.69	342973		5.94	581634		6.94	492970		8.6	358765		10.1
RE15-10-8345	160502		3.82	592070		4.68	347291		5.94	587737		6.94	453470		8.6	326285		10.1
RE15-10-8342	157415		3.82	582968		4.69	339127		5.94	583547		6.94	515059		8.59	365778		10.0
RE15-10-8343	153506		3.82	574167		4.68	339464		5.94	572173		6.94	471912		8.6	336858		10.1
RE15-10-8377	167568		3.82	617086		4.69	360664		5.94	607205		6.94	454551		8.6	296856		10.1

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 values outside QC limits with an asterisk

* Value outside of QC Limits

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1905

Instrument: MSD7.1

STD Analysis Time: 08-MAR-10 10:38

GC Column: J&W DB-5MS

Data File: s7c0804.d

	1,4-Dichlorobenzene-d4			Naphthalene-d8			Acenaphthene-d10			Phenanthrene-d10			Chrysene-d12			Perylene-d12		
	Area	#	RT #	Area	#	RT #	Area	#	RT #	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	465804		4	1795039		4.88	950264		6.13	1714715		7.31	1344312		9.73	1088961		11.5
Upper Limit	931608		4.5	3590078		5.38	1900528		6.63	3429430		7.81	2688624		10.2	2177922		12.0
Lower Limit	232902		3.5	897520		4.38	475132		5.63	857358		6.81	672156		9.23	544481		11.0
Sample ID																		
BLK02	462742		4	1717734		4.87	944353		6.12	1720331		7.3	1593510		9.72	1334549		11.4
BLK02LCS	398177		4	1594162		4.87	826419		6.13	1553251		7.31	1348969		9.73	1084865		11.5
BLK02LCSD	436990		4	1750998		4.87	907161		6.13	1702725		7.31	1450241		9.73	1120708		11.5
RE15-10-8345RE	481292		4	1760603		4.87	908422		6.13	1706433		7.31	1490216		9.73	1066567		11.5

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 values outside QC limits with an asterisk

* Value outside of QC Limits

Sample Data

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332006

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 µL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.4	352
108-95-2	Phenol	U	352	ug/kg	70.4	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.4	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.4	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.4	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.4	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.0	352
129-00-0	Pyrene		78.3	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.4	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.4	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.4	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.4	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.4	352
95-48-7	o-Cresol	U	352	ug/kg	70.4	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.4	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.4	352
78-59-1	Isophorone	U	352	ug/kg	70.4	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.4	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.4	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.4	352
65-85-0	Benzoic acid	U	704	ug/kg	176	704
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.4	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.4	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.04	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.4	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.4	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.4	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.4	352
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.4	352

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332006	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8342	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.1	Dilution: 1
Run Date: 03/04/2010 18:57	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4c0418.d	Column: J&W DB-SMS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	352	ug/kg	70.4	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	704	ug/kg	134	704
132-64-9	Dibenzofuran	U	352	ug/kg	70.4	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.4	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.4	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.4	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.4	352
122-66-7	Azobenzene	U	352	ug/kg	70.4	352
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.4	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.4	352
85-01-8	Phenanthrene		81.2	ug/kg	10.6	35.2
120-12-7	Anthracene	J	12.8	ug/kg	7.04	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.4	352
206-44-0	Fluoranthene		127	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.4	352
56-55-3	Benzo(a)anthracene		62.6	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene		52.7	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.4	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.4	352
205-99-2	Benzo(b)fluoranthene		72.0	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene		38.4	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	20.8	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	J	22.6	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.4	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	669	ug/kg		J
	Unknown	5.64	393	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332006

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	1760	ug/kg	99	NJ
79-92-5	Camphene	5.84	149	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	153	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	503	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.12	2080	ug/kg	96	NJ
	Unknown	8.92	301	ug/kg		J

Data File: /chem/MSD4.i/s030410a.b/s4c0418.d
Report Date: 05-Mar-2010 08:13

Page 1

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD4.i/s030410a.b/s4c0418.d
Lab Smp Id: 247332006 Client Smp ID: RE15-10-8342
Inj Date : 04-MAR-2010 18:57
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332006|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	5.39600	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN	FINAL
=====	=====	==	=====	=====	(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829 (1.000)	157415	40.0000	
* 29 Naphthalene-d8	136	4.690	4.690 (1.000)	582968	40.0000	
* 46 Acenaphthene-d10	164	5.936	5.941 (1.000)	339127	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936 (1.000)	583547	40.0000	
* 91 Chrysene-d12	240	8.589	8.610 (1.000)	515059	40.0000	
* 98 Perylene-d12	264	10.038	10.070 (1.000)	365778	40.0000	
\$ 3 2-Fluorophenol	112	3.032	3.021 (0.793)	254540	69.5142	2450
\$ 5 Phenol-d5	99	3.540	3.545 (0.926)	314374	68.8000	2420
\$ 20 Nitrobenzene-d5	82	4.187	4.192 (0.893)	119720	28.8061	1010
\$ 39 2-Fluorobiphenyl	172	5.428	5.433 (0.914)	288737	31.7045	1120
\$ 60 2,4,6-Tribromophenol	329	6.476	6.481 (1.091)	70954	71.1811	2500
\$ 81 p-Terphenyl-d14	244	7.856	7.861 (0.915)	354081	43.0946	1520

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.803	7.813	(0.908)	30716	2.22553	78.3
68 Phenanthrene	178	6.947	6.952	(1.002)	29902	2.30796	81.2
69 Anthracene	178	6.979	6.984	(1.006)	4520	0.36246	12.8(a)
76 Fluoranthene	202	7.663	7.669	(1.105)	41909	3.61825	127
89 Benzo(a)anthracene	228	8.578	8.600	(0.999)	21022	1.77740	62.6(H)
92 Chrysene	228	8.605	8.632	(1.002)	16785	1.49664	52.7
95 Benzo(b)fluoranthene	252	9.568	9.600	(0.953)	19030	2.04568	72.0
97 Benzo(a)pyrene	252	9.963	10.001	(0.993)	8069	1.09148	38.4
99 Indeno(1,2,3-cd)pyrene	276	11.638	11.702	(1.159)	3587	0.58973	20.8(a)
101 Benzo(ghi)perylene	276	12.146	12.204	(1.210)	3152	0.64240	22.6(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

ION RATIO REPORT

SV REPORT

Data file: s4c0418.d

Report Date: 03/05/2010 07:56

Lab. ID: 247332006

SampleType: SAMPLE

Injection Date: 04-MAR-2010 18:57

Operator: JMB3

Instrument: MSD4.i

Sample Info: |247332006|956285|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	15928	3.54	3.61	80-120	100	(T)
93	261	3.59	3.61	453-513	2	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	16427	4.19	4.07	80-120	100	(T)
42	8163	4.18	4.07	27- 87	50	(T)

40	2-Chloronaphthalene	CAS#: 91-58-7				
162	21468	5.67	5.54	80-120	100	(T)
164	1157	5.67	5.54	3- 63	5	(T)
127	1706	5.67	5.54	8- 68	8	(T)

42	o-Nitroaniline	CAS#: 88-74-4				
65	22818	5.67	5.60	80-120	100	(T)
92	31970	5.67	5.60	35- 95	140	(QT)
138	2296	5.67	5.60	79-139	10	(QT)

43	Dimethylphthalate	CAS#: 131-11-3				
163	59330	5.94	5.71	80-120	100	(T)
164	339127	5.94	5.71	0- 40	572	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	45527	5.94	5.77	80-120	100	(T)
63	709	5.94	5.77	53-113	2	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	45527	5.94	6.05	80-120	100	(T)
89	721	5.94	6.05	53-113	2	(QT)
63	709	5.94	6.05	24- 84	2	(QT)

52 4-Nitrophenol		CAS#: 100-02-7				
139	428	6.08	5.99	80-120	100	(T)
109	430	6.06	5.99	37- 97	101	(QT)
65	1795	6.02	5.99	67-127	419	(Q)

53 Fluorene		CAS#: 86-73-7				
166	3656	6.48	6.32	80-120	100	(T)
165	3940	6.48	6.32	62-122	108	(T)
167	1212	6.48	6.32	0- 44	33	(T)

55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	185	6.48	6.34	80-120	100	(T)
105	882	6.48	6.34	16- 76	477	(QT)
51	466	6.48	6.34	35- 95	252	(QT)

68 Phenanthrene		CAS#: 85-01-8				
178	29902	6.95	6.95	80-120	100	()
179	5114	6.95	6.95	0- 46	17	()
176	5523	6.95	6.95	0- 49	18	()

69 Anthracene		CAS#: 120-12-7				
178	4520	6.98	6.98	80-120	100	()
179	967	6.98	6.98	0- 46	21	()
176	756	6.98	6.98	0- 49	17	()

76 Fluoranthene		CAS#: 206-44-0				
202	41909	7.66	7.67	80-120	100	()
203	7640	7.66	7.67	0- 48	18	()
101	5584	7.66	7.67	0- 42	13	()

79 Pyrene		CAS#: 129-00-0				
202	30716	7.80	7.81	80-120	100	()
200	6176	7.80	7.81	0- 51	20	()
101	4858	7.80	7.81	0- 44	16	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	16785	8.60	8.60	80-120	100	()
226	4922	8.60	8.60	0- 56	29	()
229	4277	8.60	8.60	0- 50	25	()

92 Chrysene		CAS#: 218-01-9				
228	16785	8.60	8.63	80-120	100	()
229	4277	8.60	8.63	0- 50	25	()
226	4922	8.60	8.63	0- 59	29	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
94 Di-n-octylphthalate				CAS#: 117-84-0		
149	92	9.02	9.02	80-120	100	()
43	592	9.01	9.02	0- 40	643	(Q)

95 Benzo(b)fluoranthene				CAS#: 205-99-2		
252	19030	9.57	9.60	80-120	100	()
253	4421	9.57	9.60	0- 52	23	()
125	2962	9.57	9.60	0- 42	16	()

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	19030	9.57	9.63	80-120	100	(T)
253	4421	9.57	9.63	0- 52	23	(T)
125	2962	9.57	9.63	0- 41	16	(T)

97 Benzo(a)pyrene				CAS#: 50-32-8		
252	8069	9.96	10.00	80-120	100	()
253	2086	9.96	10.00	0- 52	26	()
125	1276	9.96	10.00	0- 43	16	()

99 Indeno(1,2,3-cd)pyrene				CAS#: 193-39-5		
276	3587	11.64	11.70	80-120	100	(T)
138	970	11.64	11.70	0- 59	27	(T)

101 Benzo(ghi)perylene				CAS#: 191-24-2		
276	3152	12.15	12.20	80-120	100	()
138	766	12.15	12.20	0- 55	24	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD4.i/s030410a.b/s4c0418.d
Lab Smp Id: 247332006 Client Smp ID: RE15-10-8342
Inj Date : 04-MAR-2010 18:57
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332006|956285|1|SVM|1|LANL
Misc Info : |MSD8270 S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	5.39600	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.823	934268	40.000
* 46 Acenaphthene-d10	5.936	1547728	40.000
* 91 Chrysene-d12	8.589	1503340	40.000

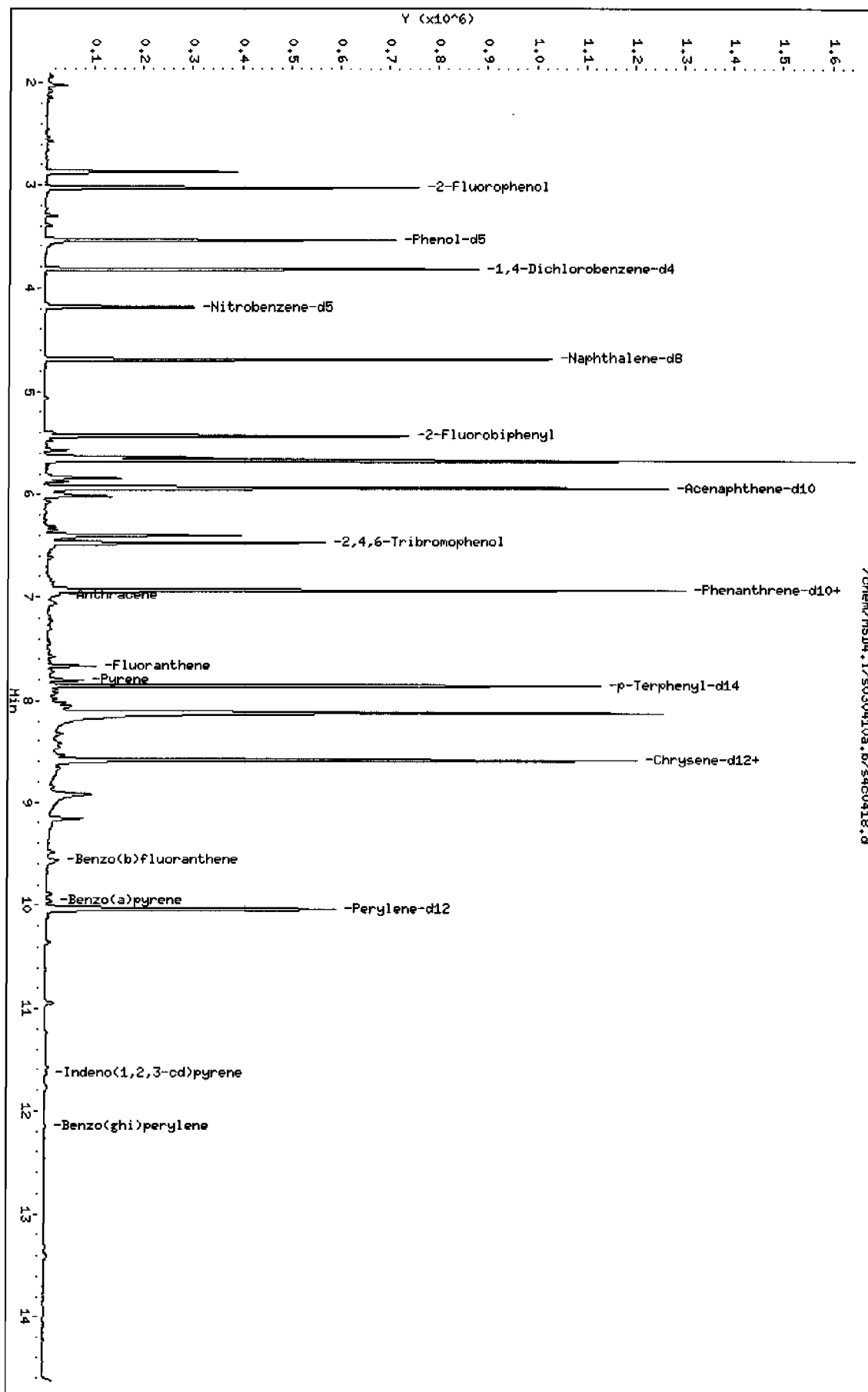
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	----	-----	-----	----	-----	-----	-----
Unknown Aldol Condensate					CAS #:		
2.871	444187	19.0175202	669	0		0	10
Unknown					CAS #:		
5.636	431496	11.1517106	392	0		0	46
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.668	1930486	49.8921051	1760	99	NIST05.L	60024	46
Camphene					CAS #: 79-92-5		
5.840	164160	4.24261254	149	83	NIST05.L	15161	46
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr					CAS #: 19912-83-5		
6.016	168472	4.35405373	153	97	NIST05.L	59904	46
Cedrane, 8-propoxy-					CAS #: 19870-75-8		
6.401	552874	14.2886483	503	94	NIST05.L	101502	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.118	2216816	58.9837429	2080	96	NIST05.L	116239	91
Unknown					CAS #:		
8.920	321580	8.55642194	301	0		0	91

Data File: /chem/HSD4.i/s030410a.b/s4c0418.d
 Date : 04-Mar-2010 18:57
 Client ID: REIS-10-8342
 Sample Info: 1247332006195628511SVH11L1ANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD4.i
 Operator: JHB3
 Column diameter: 0.20

Page 1



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: HSD4.i

Sample Info: 1247332006195628511SVMI11LANL

Volume Injected (uL): 0.5

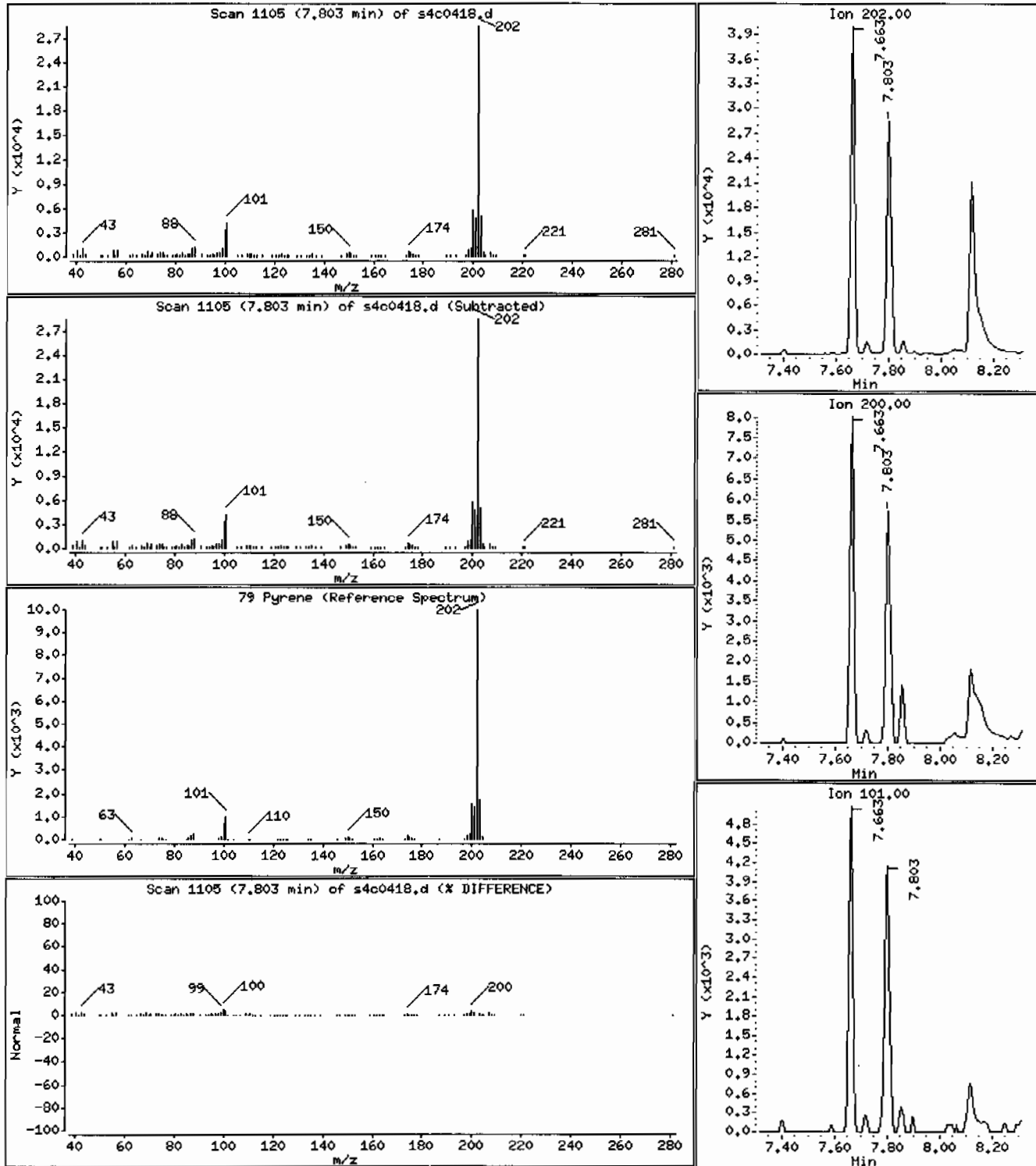
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 78.3 ug/Kg



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: HSD4.i

Sample Info: 1247332006195628511SVMI11LANL

Volume Injected (uL): 0.5

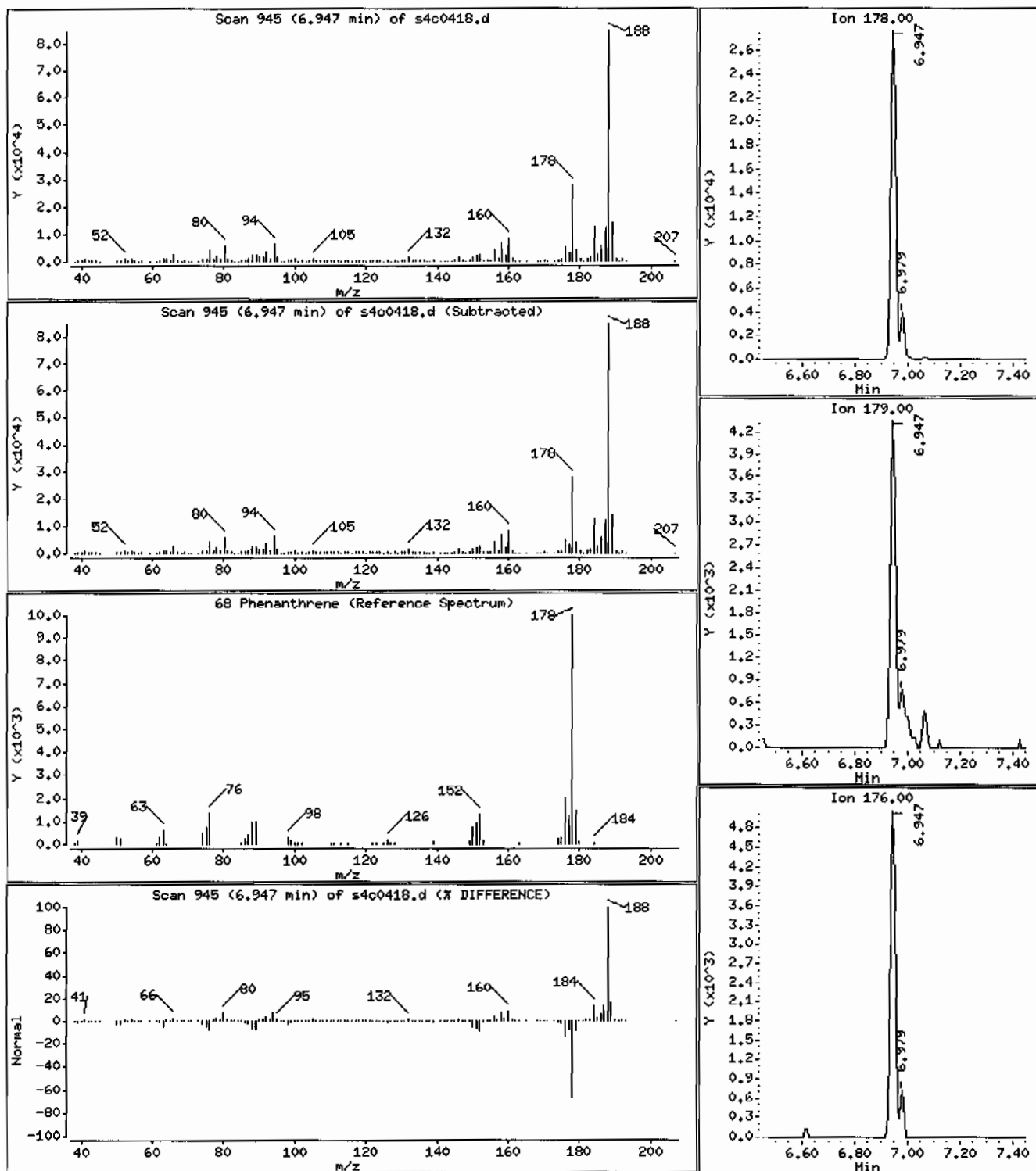
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 81.2 ug/Kg



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: I247332006195628511ISVMI1ILANL

Volume Injected (uL): 0.5

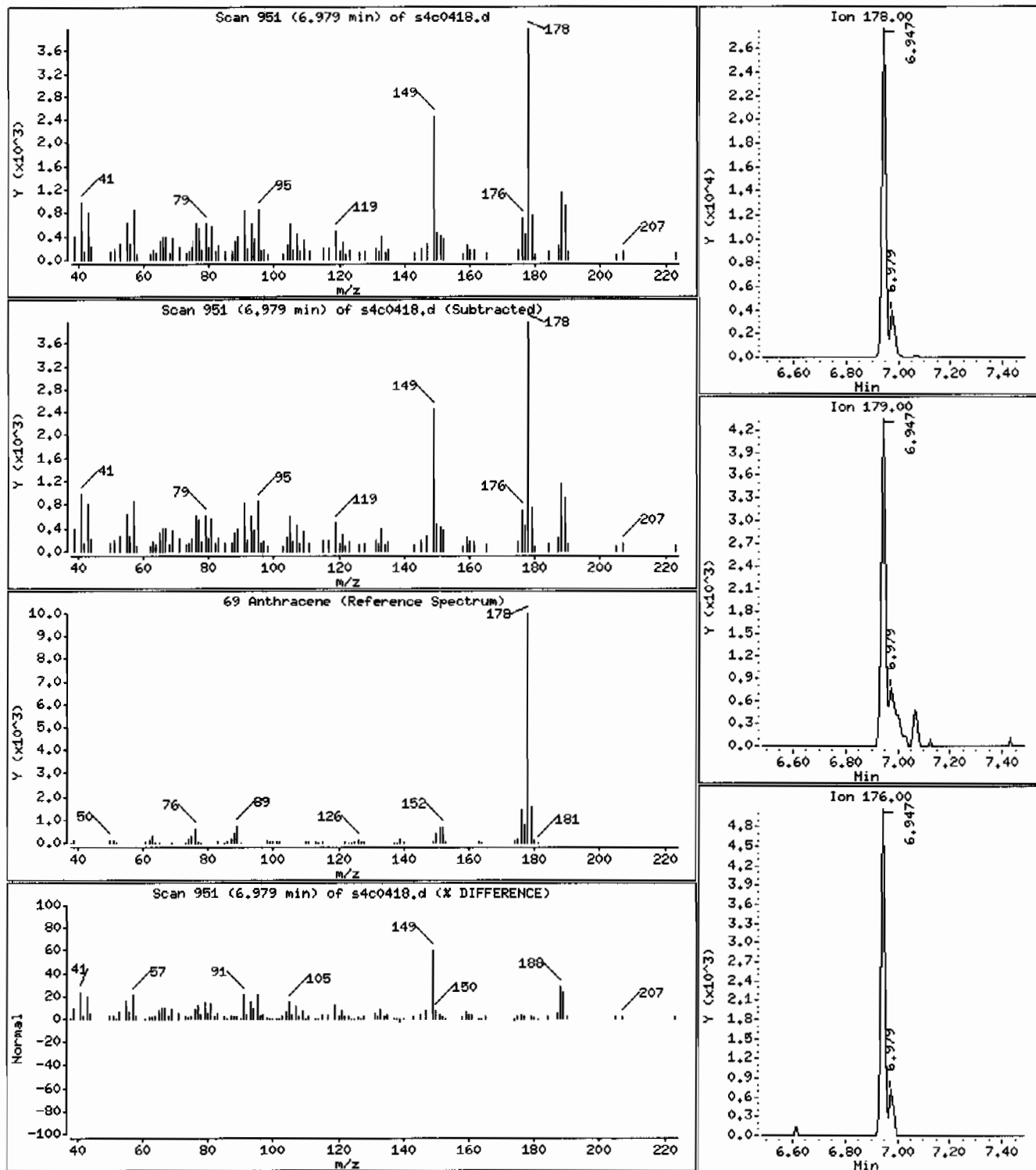
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 12.8 ug/Kg



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.1

Sample Info: 12473320061956285111SVMI11LANL

Volume Injected (uL): 0.5

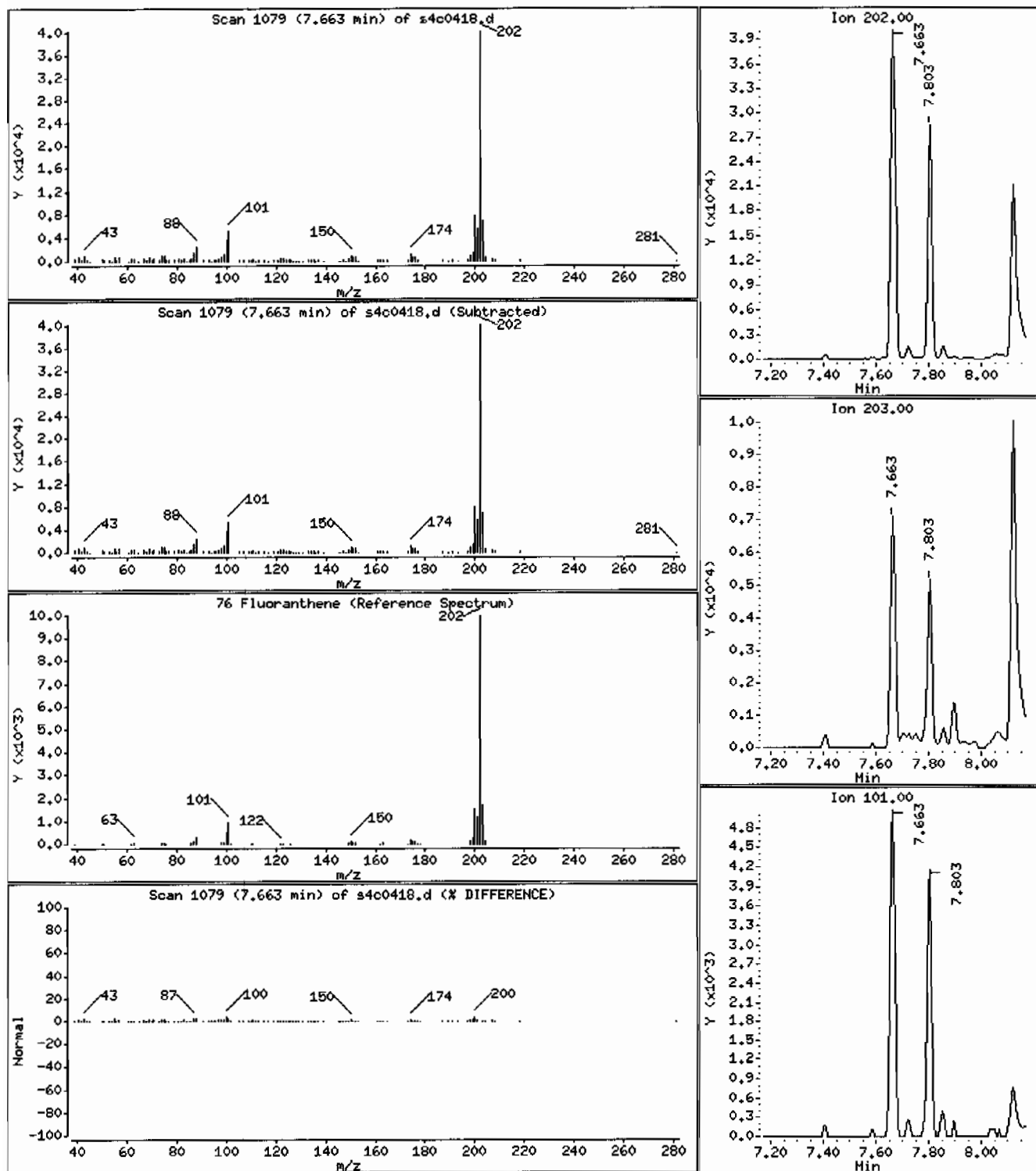
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 127 ug/Kg



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 1247332006195628511SVH11ILANL

Volume Injected (uL): 0.5

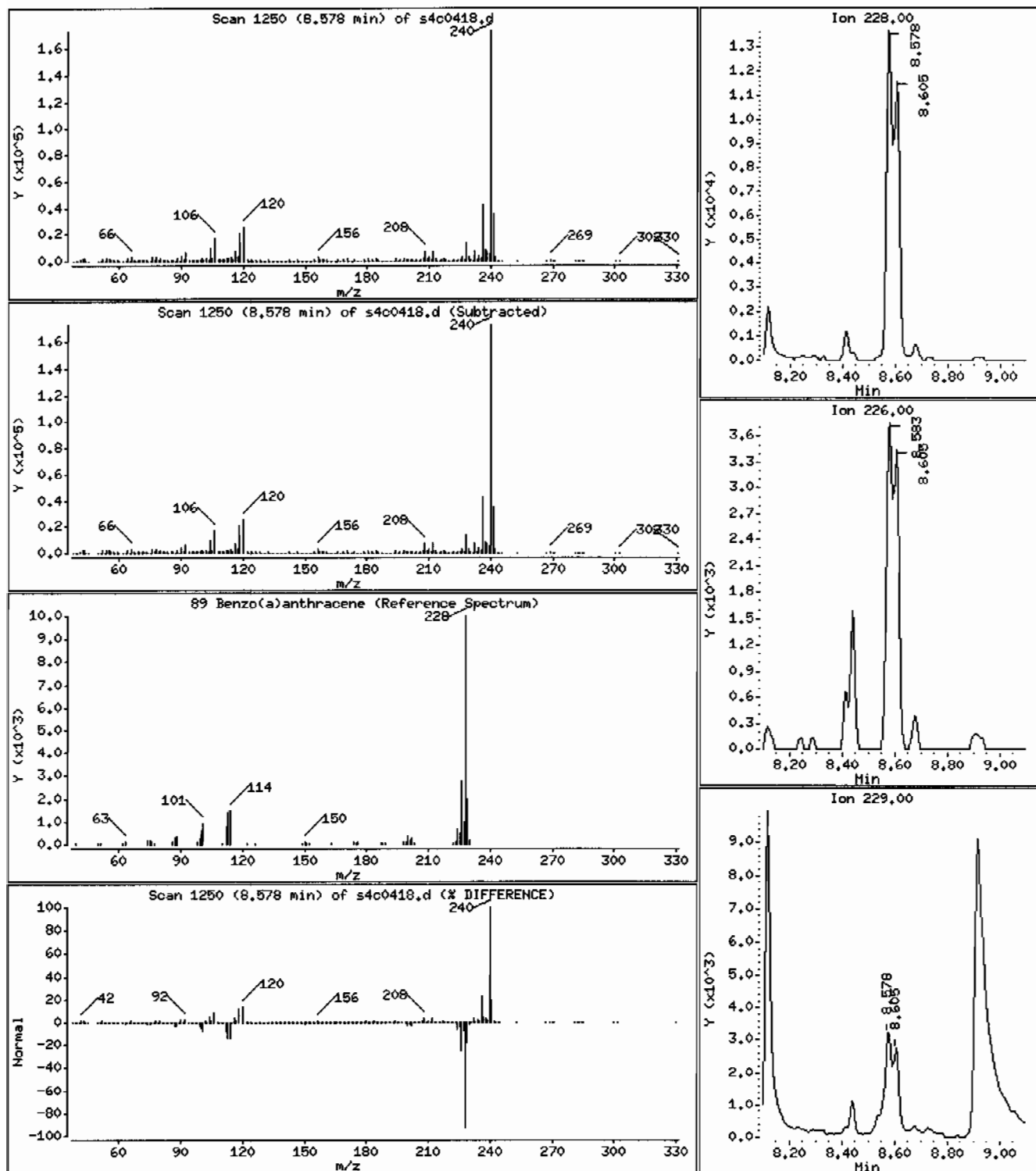
Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 62.6 ug/Kg



Date: 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 12473320061956285111SVH111LANL

Volume Injected (uL): 0.5

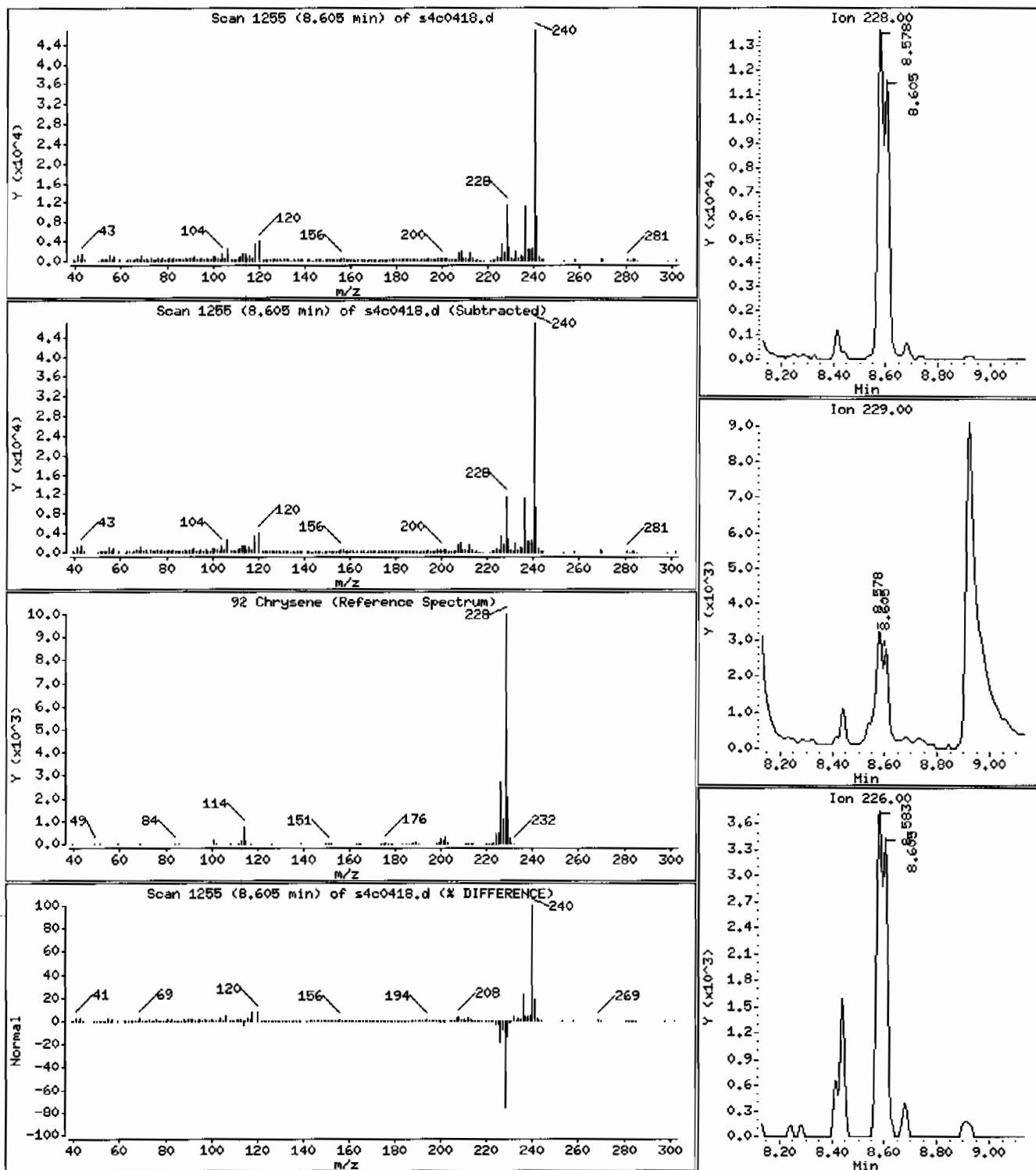
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 52.7 ug/Kg



Date: 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 1247332006195628511ISVH11ILANL

Volume Injected (ul): 0.5

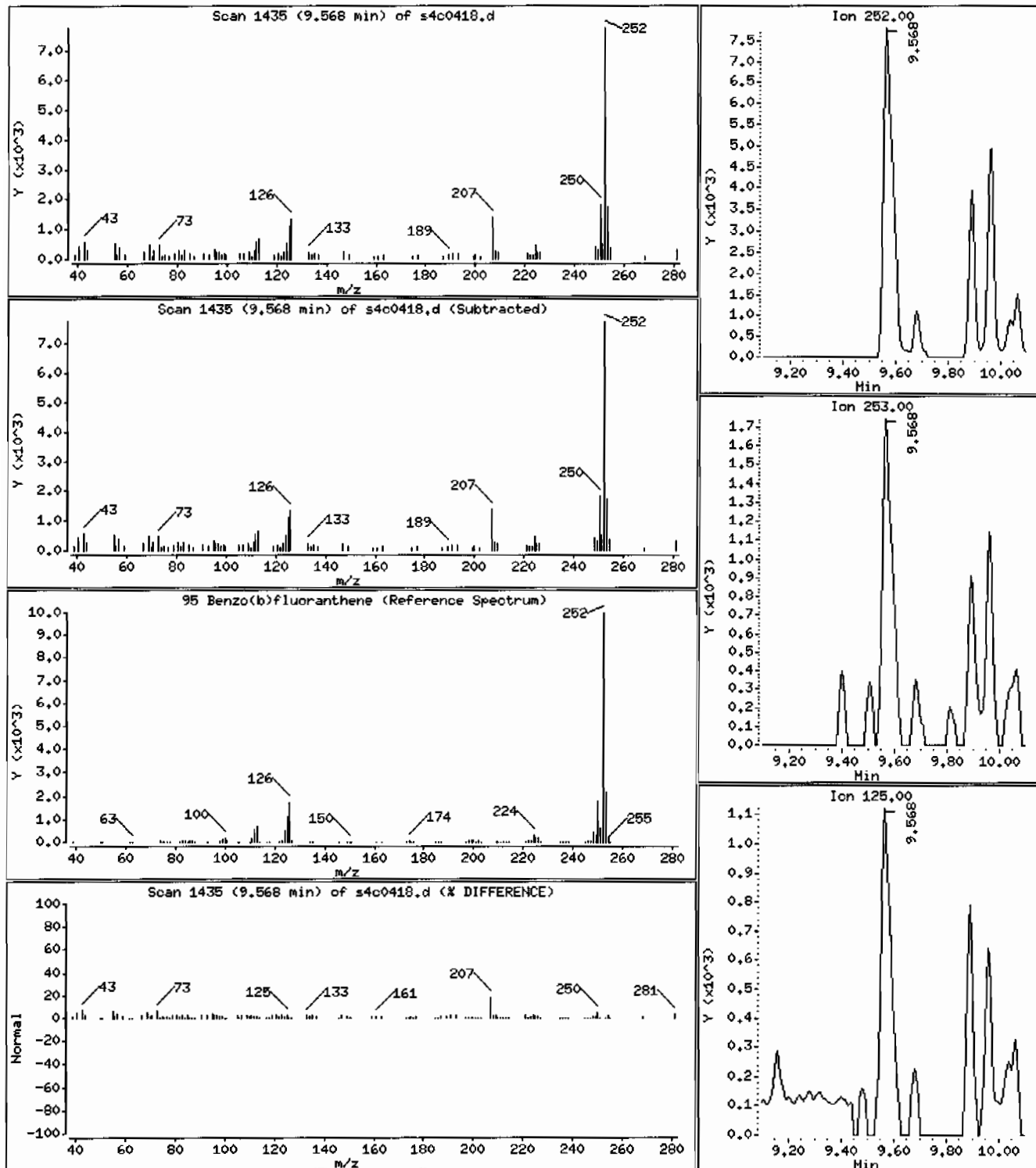
Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 72.0 ug/Kg



Data File: /chem/MSD4.i/s030410a.b/s4c0418.d

Page 9

Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 1247332006195628511SVH111LANL

Volume Injected (uL): 0.5

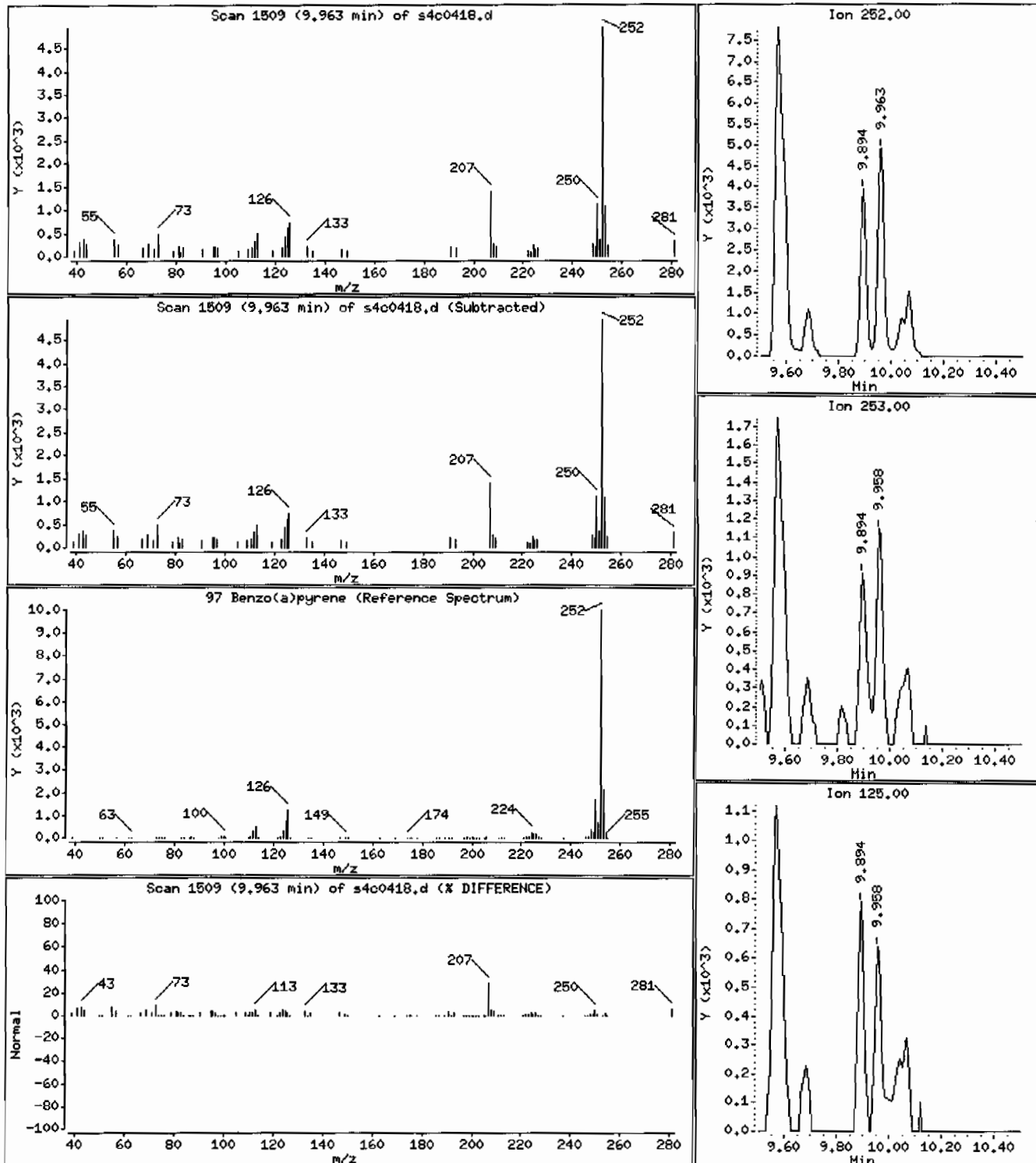
Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 38.4 ug/Kg



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 1247332006195628511|SVH11|LANL

Volume Injected (uL): 0.5

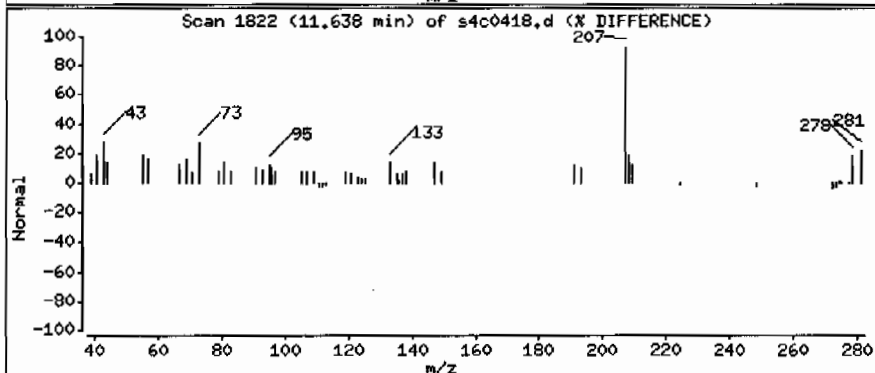
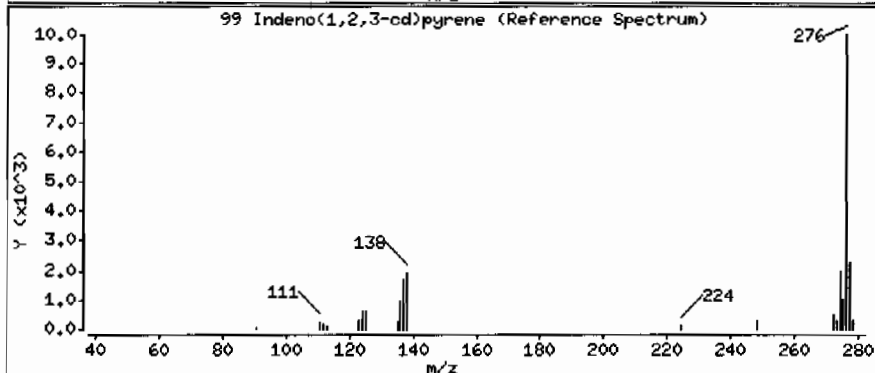
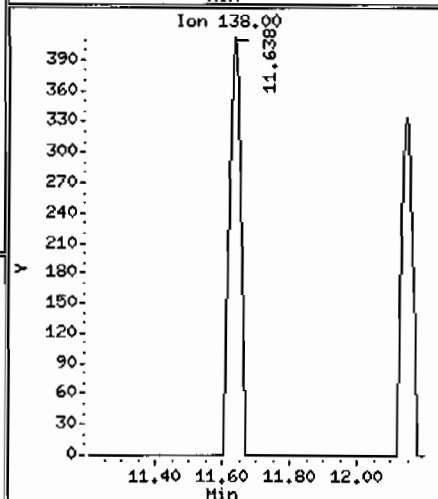
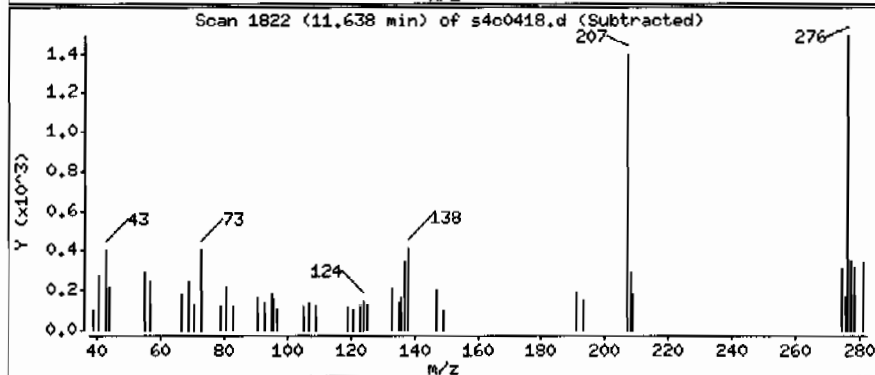
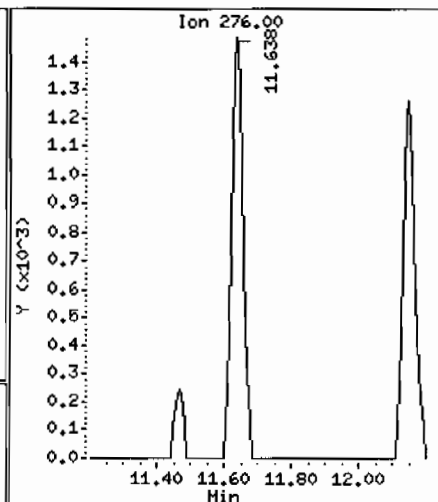
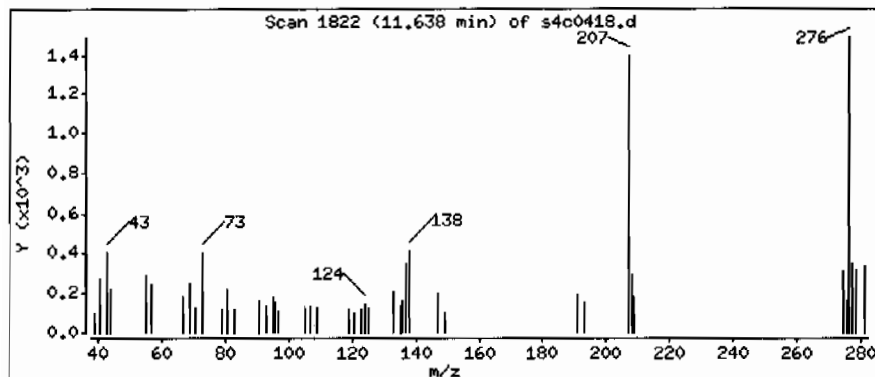
Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 20.8 ug/Kg



Date: 04-MAR-2010 18:57

Client ID: RE15-10-B342

Instrument: MSD4.i

Sample Info: 1247332006195628511ISVM11ILANL

Volume Injected (uL): 0.5

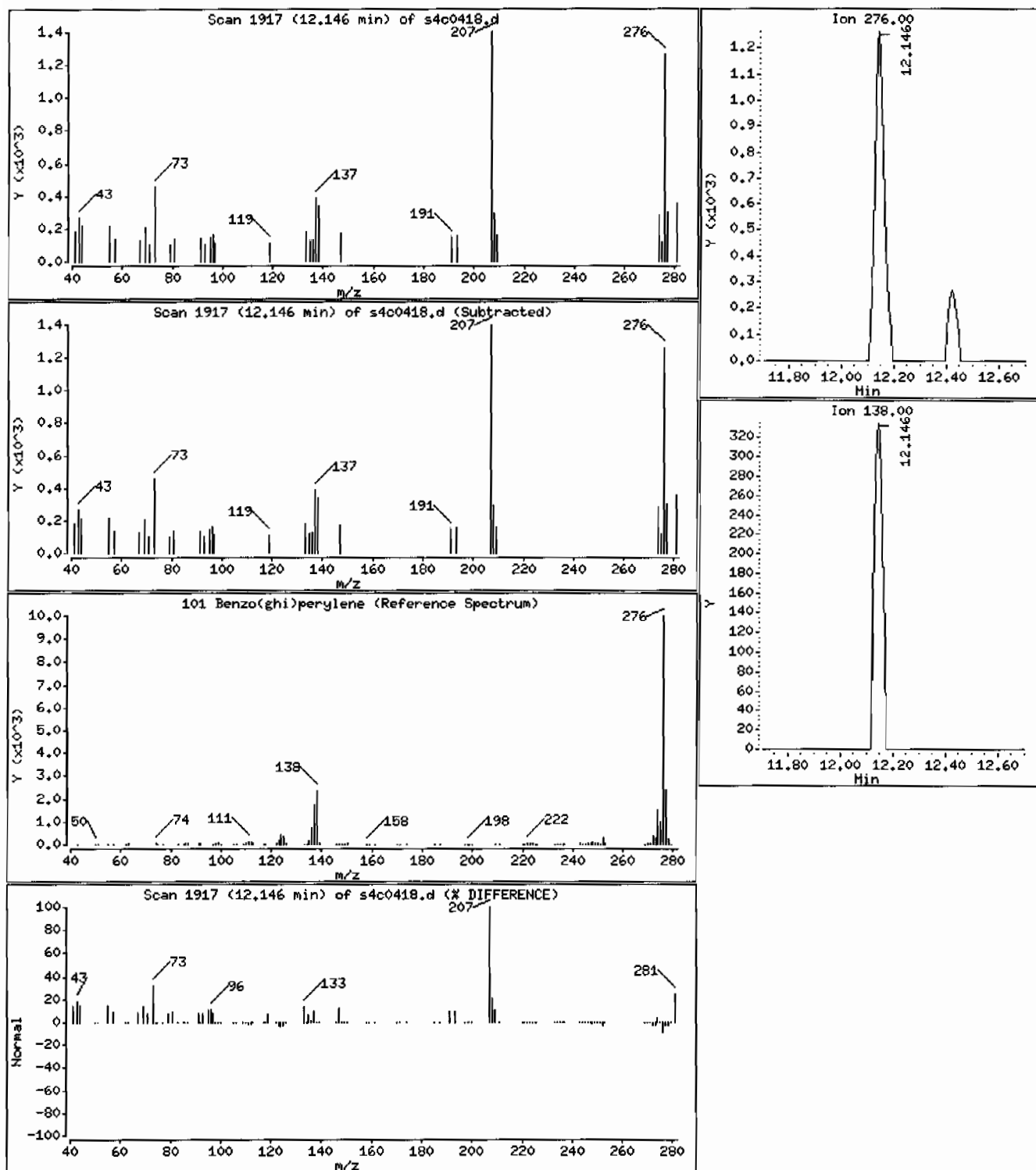
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 22.6 ug/Kg



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: HSD4.i

Sample Info: 1247332006195628511ISVM111LANL

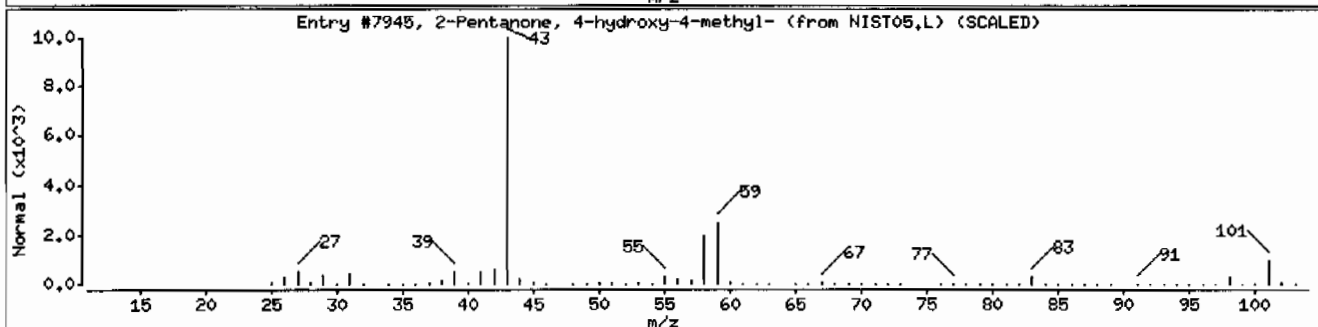
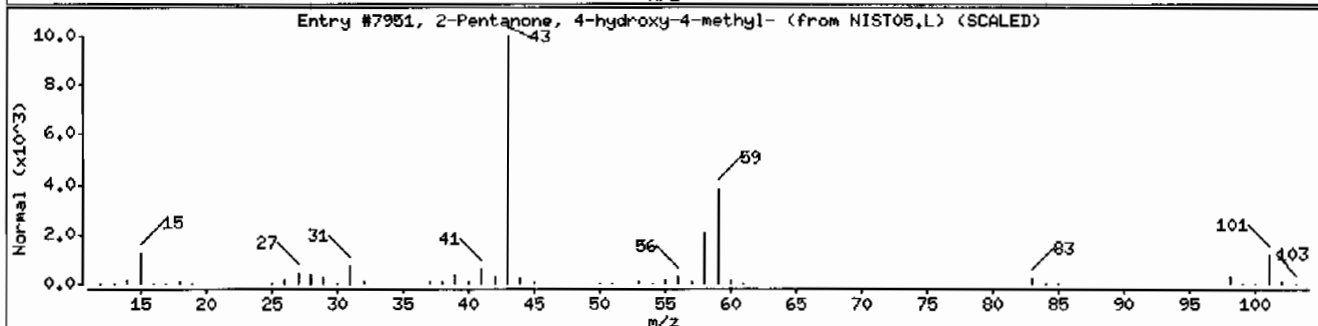
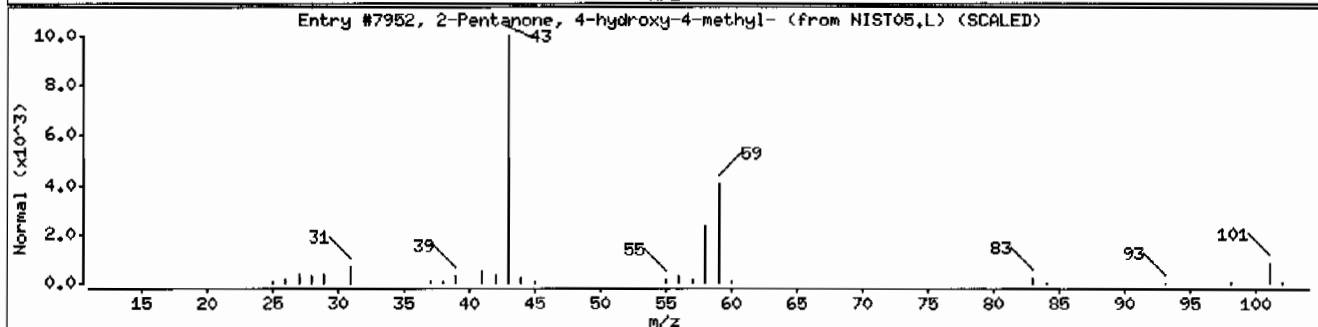
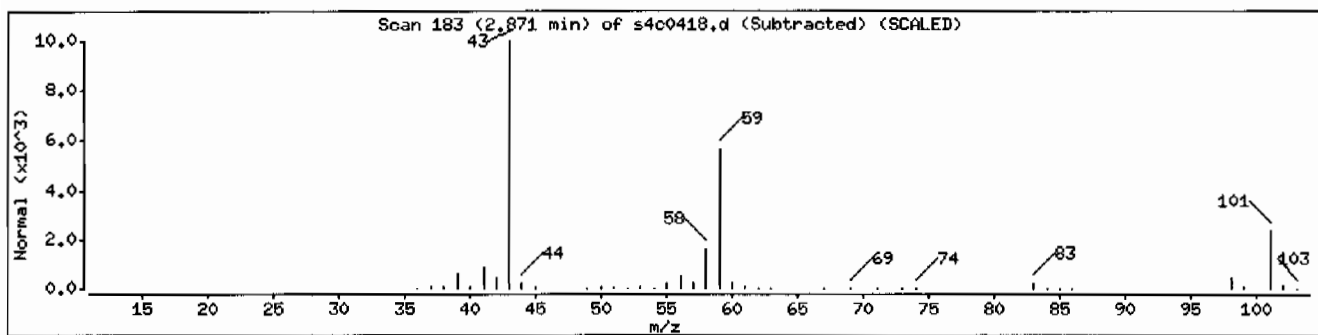
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	32	C6H12O2	116



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 1247332006195628511SVH111LANL

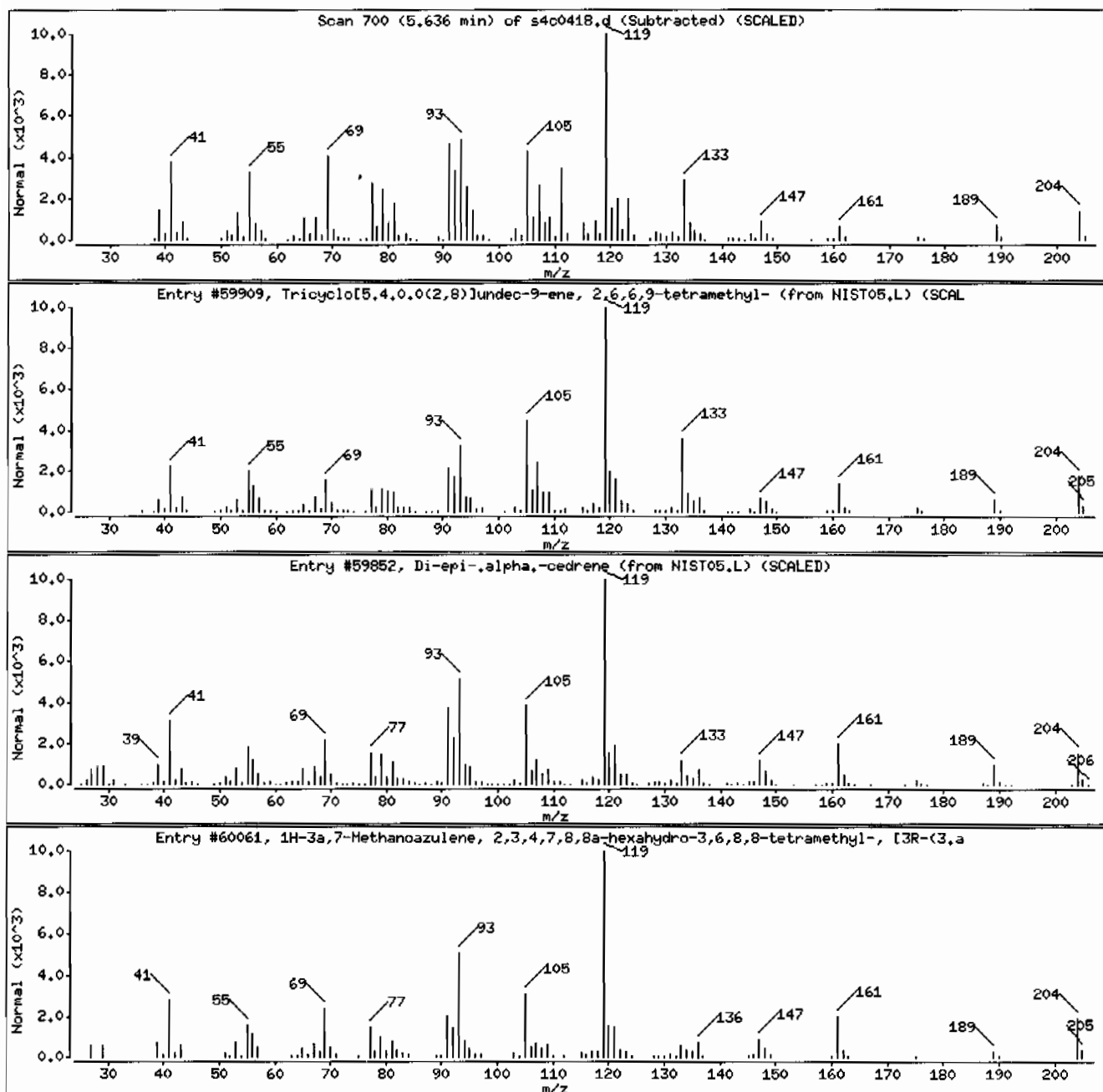
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	70	C15H24	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	58	C15H24	204
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60061	53	C15H24	204



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 1247332006195628511SVMI11LANL

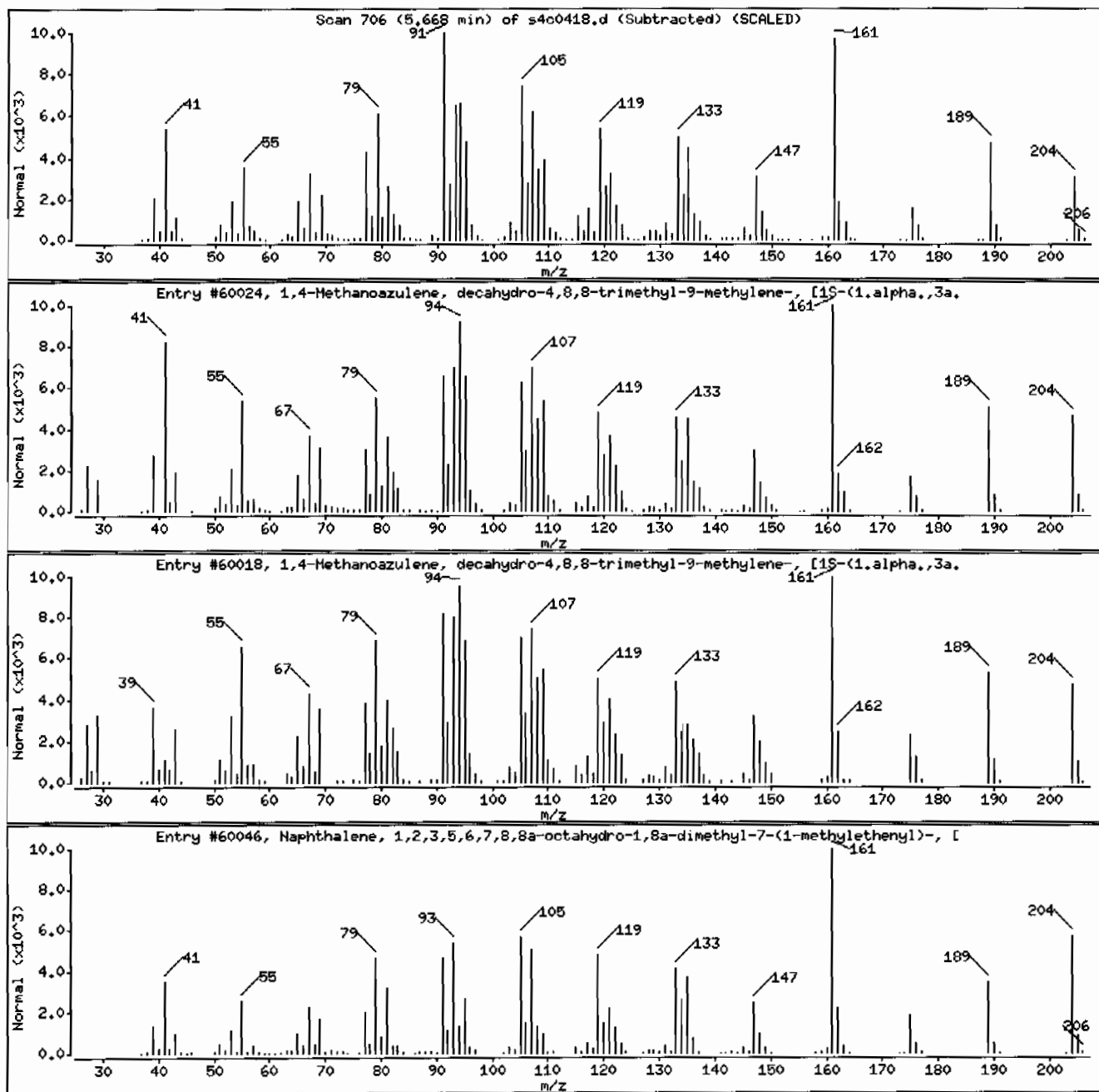
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	96	C15H24	204



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4,i

Sample Info: 1247332006195628511|SVMI1|LANL

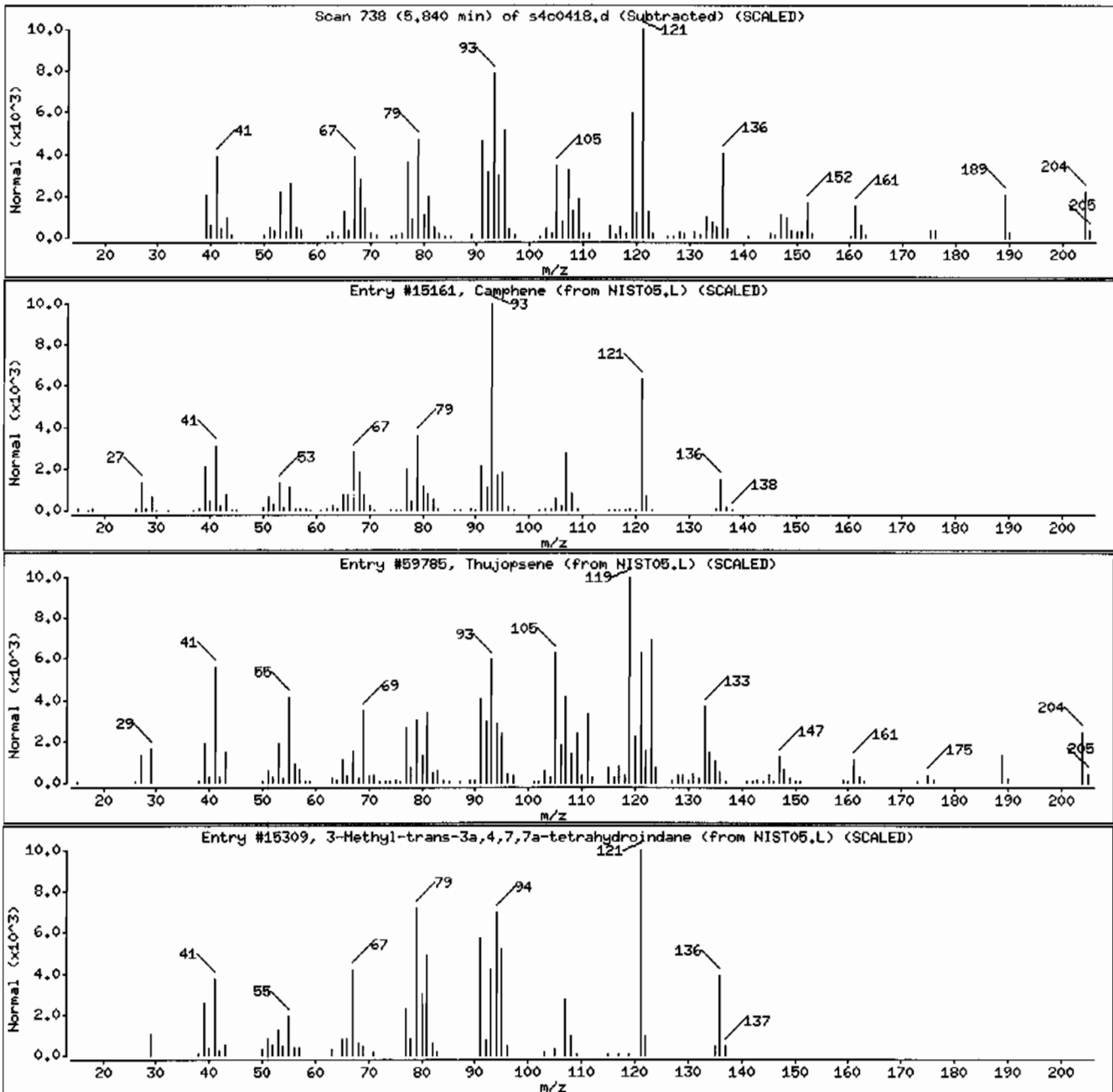
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Camphene	79-92-5	NIST05.L	15161	83	C10H16	136
Thujopsene	470-40-6	NIST05.L	59785	78	C15H24	204
3-Methyl-trans-3a,4,7,7a-tetrahydroindan	1000145-84-3	NIST05.L	15309	70	C10H16	136



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: MSD4.i

Sample Info: 1247332006195628511SVH111LANL

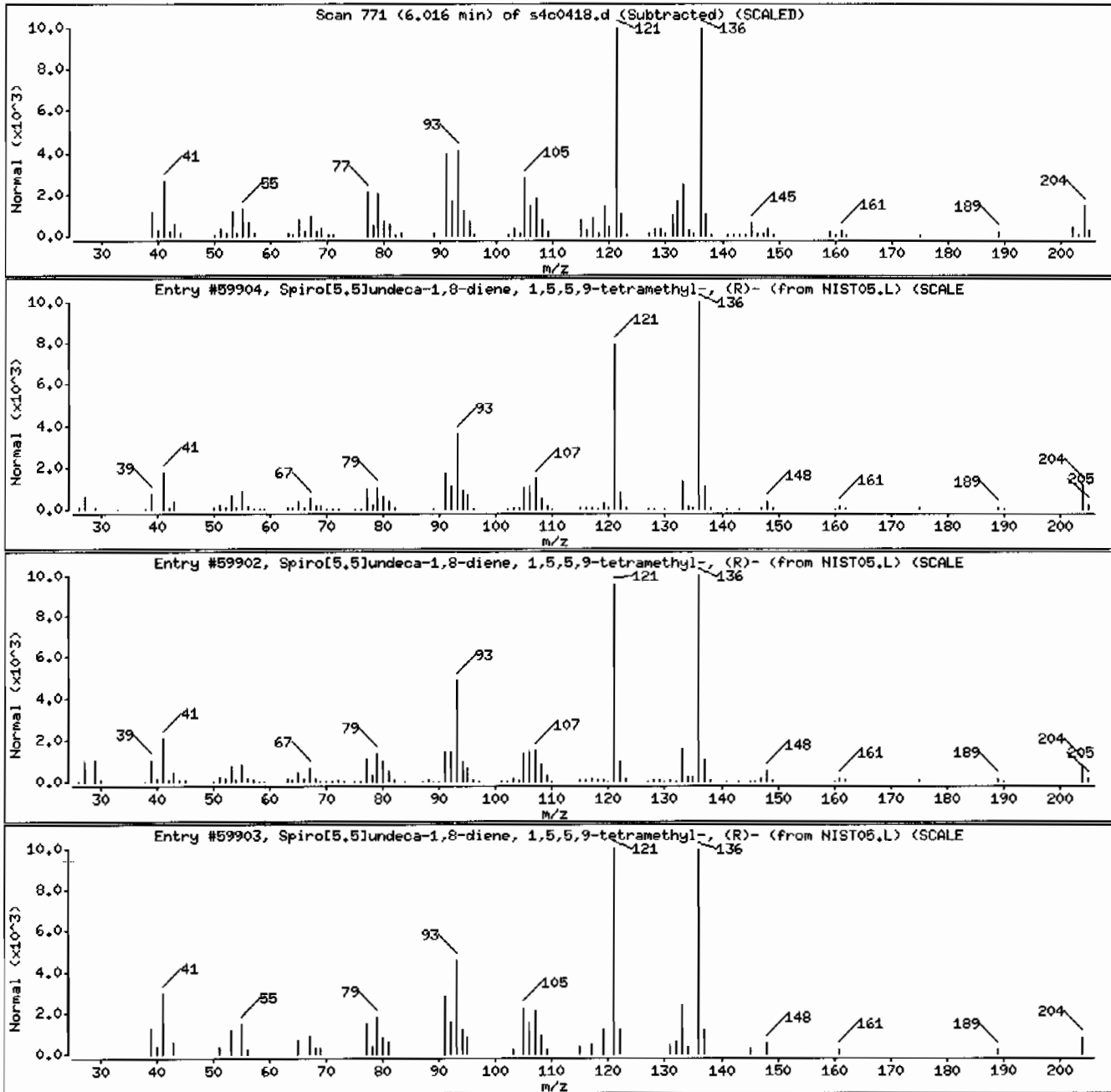
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59904	97	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59902	91	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59903	91	C15H24	204



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: HSD4.i

Sample Info: I247332006195628511ISVH11ILANL

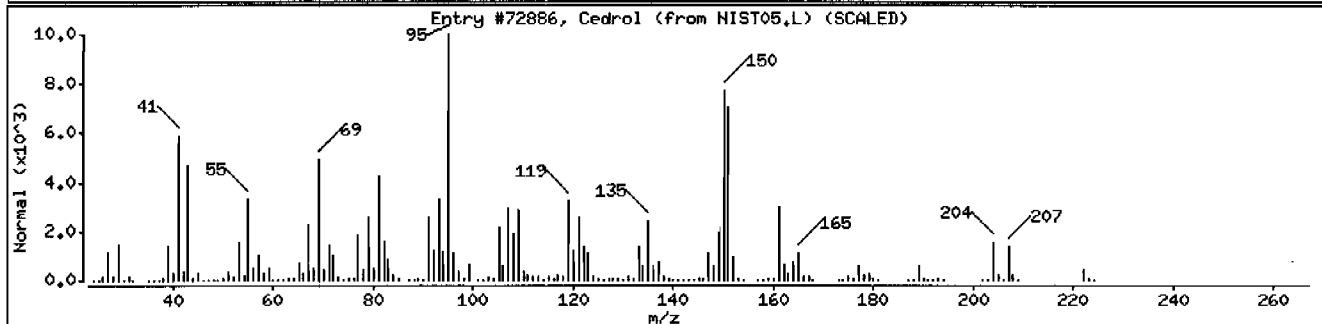
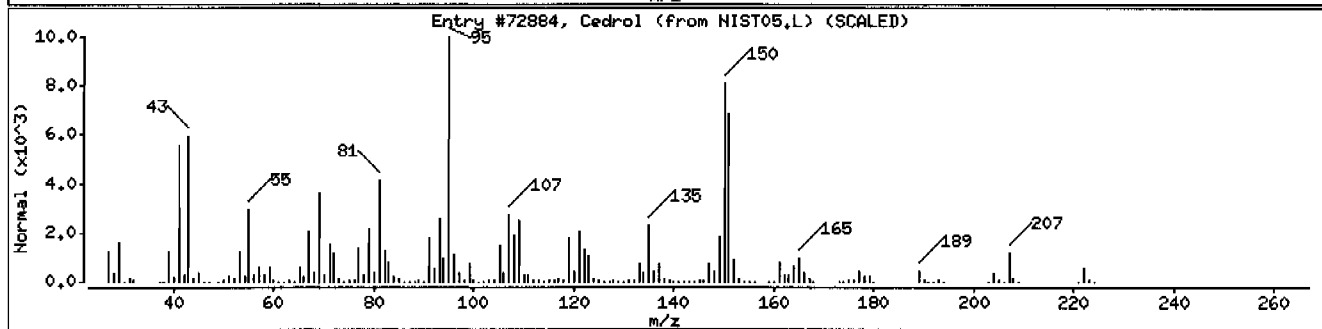
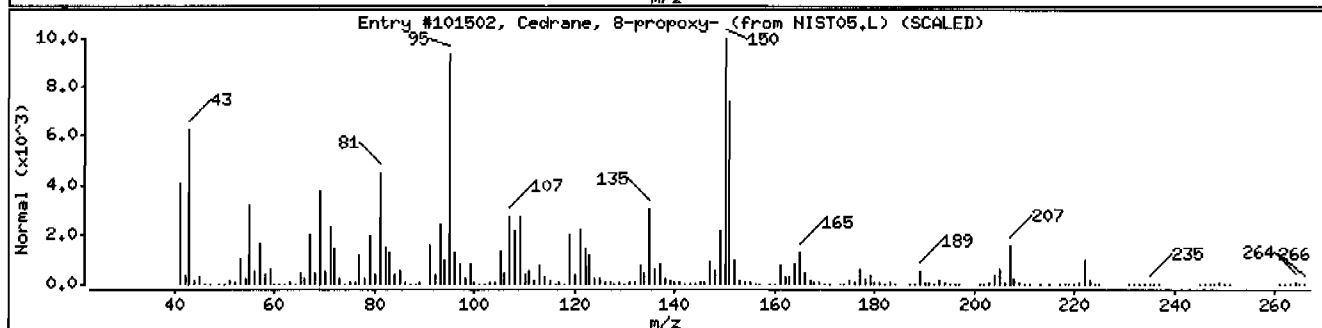
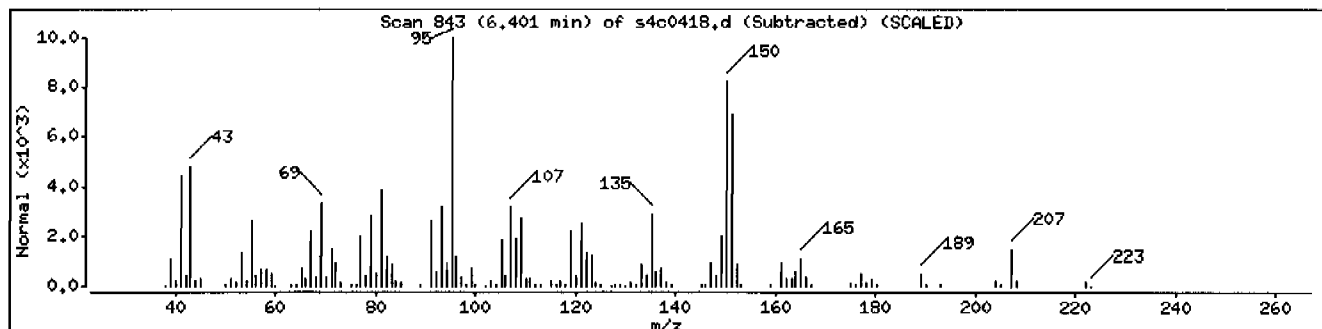
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	94	C18H32O	264
Cedrol	77-53-2	NIST05.L	72884	94	C15H26O	222
Cedrol	77-53-2	NIST05.L	72886	93	C15H26O	222



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: HSD4.1

Sample Info: 1247332006195628511|SVM|1|LANL

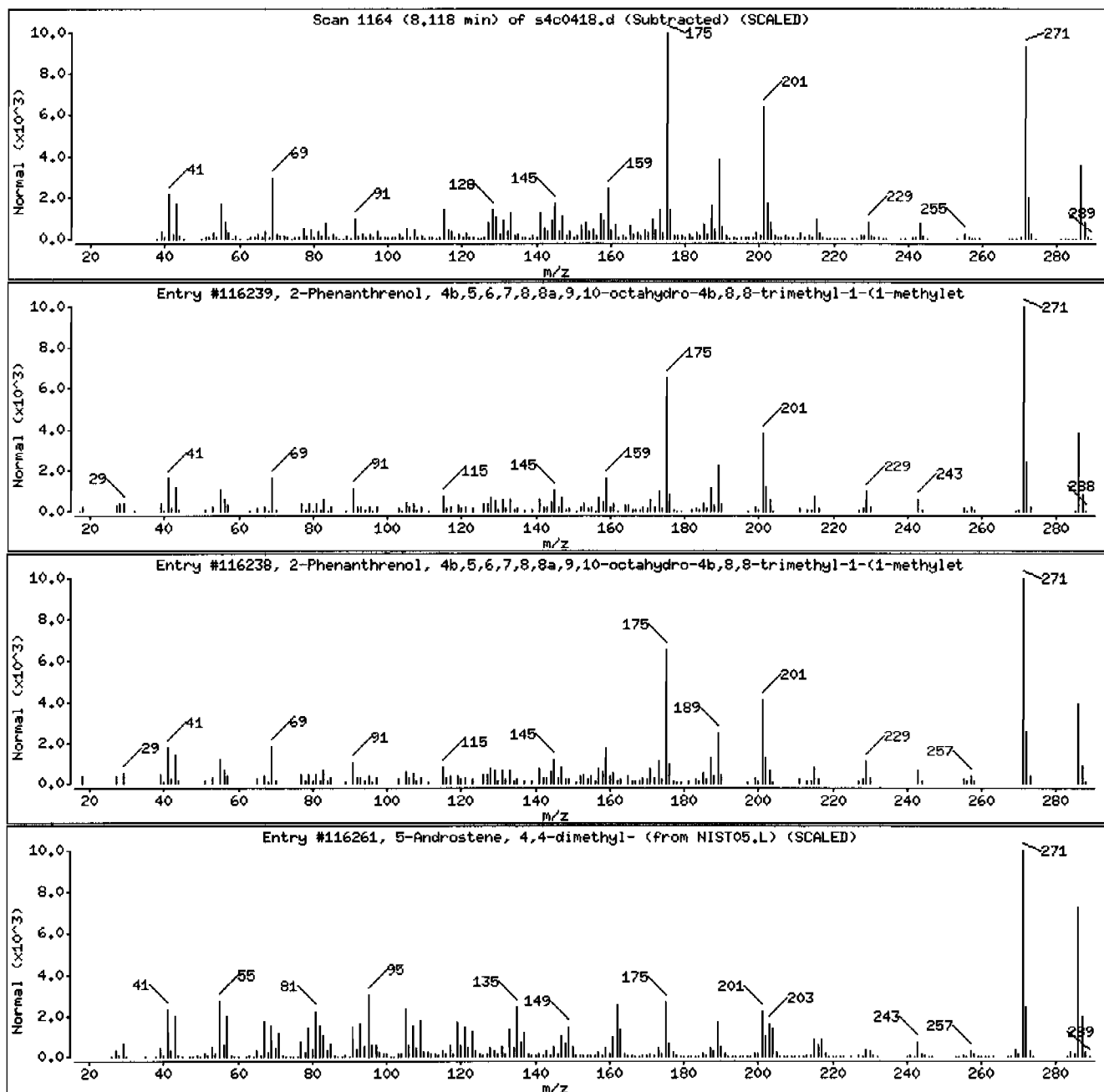
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	96	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	91	C20H30O	286
5-Androstene, 4,4-dimethyl-	1000194-15-4	NIST05.L	116261	49	C21H34	286



Date : 04-MAR-2010 18:57

Client ID: RE15-10-8342

Instrument: HSD4.i

Sample Info: 1247332006195628511SVMI11LANL

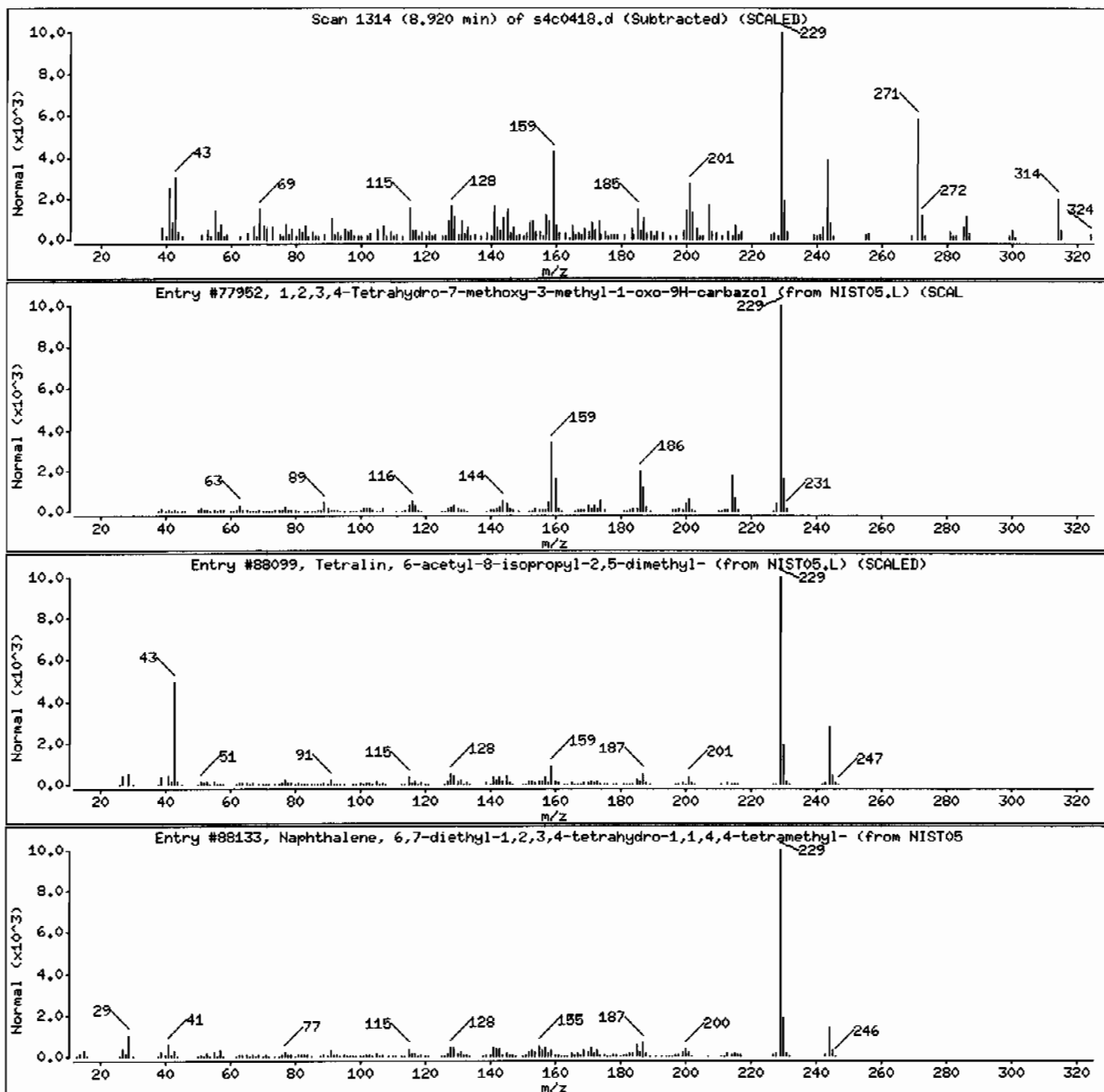
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	45	C14H15NO2	229
Tetralin, 6-acetyl-8-isopropyl-2,5-dimet	1000155-43-5	NIST05.L	88099	42	C17H24O	244
Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	55741-10-1	NIST05.L	88133	35	C18H28	244



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.5	347
108-95-2	Phenol	U	347	ug/kg	69.5	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.5	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.5	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.5	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.5	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.5	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	115	347
87-86-5	Pentachlorophenol	U	347	ug/kg	86.8	347
129-00-0	Pyrene	J	16.9	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.5	347
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.5	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.5	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.5	347
108-60-1	bis(2-Chloroisopropyl) ether	U	347	ug/kg	69.5	347
95-48-7	o-Cresol	U	347	ug/kg	69.5	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.5	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.5	347
78-59-1	Isophorone	U	347	ug/kg	69.5	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.5	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	122	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.5	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.5	347
65-85-0	Benzoic acid	U	695	ug/kg	174	695
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.5	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.5	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.95	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.5	347
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.5	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.5	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.5	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.5	347
99-09-2	<i>o</i> -Nitroaniline	U	347	ug/kg	69.5	347
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8343
Batch ID: 956285
Run Date: 03/04/2010 19:19
Prep Date: 02/23/2010 10:34
Data File: s4c0419.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	347	ug/kg	69.5	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	695	ug/kg	132	695
132-64-9	Dibenzofuran	U	347	ug/kg	69.5	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.5	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.5	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.5	347
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	347	ug/kg	69.5	347
122-66-7	Azobenzene	U	347	ug/kg	69.5	347
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.5	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.5	347
85-01-8	Phenanthrene	J	16.5	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.95	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.5	347
206-44-0	Fluoranthene	J	24.9	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.5	347
56-55-3	Benzo(a)anthracene	J	18.3	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.5	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.5	347
205-99-2	Benzo(b)fluoranthene	J	15.3	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.5	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	1290	ug/kg		J
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	441	ug/kg	86	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	1820	ug/kg	99	NJ
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	5.84	212	ug/kg	93	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	173	ug/kg	97	NJ
77-53-2	Cedrol	6.4	403	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	2470	ug/kg	97	NJ
	Unknown	8.94	333	ug/kg		J

Data File: /chem/MSD4.i/s030410a.b/s4c0419.d
Report Date: 05-Mar-2010 08:15

Page 1

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Data file : /chem/MSD4.i/s030410a.b/s4c0419.d
Lab Smp Id: 247332007 Client Smp ID: RE15-10-8343
Inj Date : 04-MAR-2010 19:19
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332007|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	4.13400	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ng/ul) (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829	(1.000)	153506	40.0000
* 29 Naphthalene-d8	136	4.684	4.690	(1.000)	574167	40.0000
* 46 Acenaphthene-d10	164	5.936	5.941	(1.000)	339464	40.0000
* 67 Phenanthrene-d10	188	6.936	6.936	(1.000)	572173	40.0000
* 91 Chrysene-d12	240	8.599	8.610	(1.000)	471912	40.0000
* 98 Perylene-d12	264	10.054	10.070	(1.000)	336858	40.0000
\$ 3 2-Fluorophenol	112	3.031	3.021	(0.793)	262545	73.5262 2550
\$ 5 Phenol-d5	99	3.540	3.545	(0.926)	322855	72.4553 2520
\$ 20 Nitrobenzene-d5	82	4.181	4.192	(0.893)	130733	31.9381 1110
\$ 39 2-Fluorobiphenyl	172	5.428	5.433	(0.914)	302380	33.1696 1150
\$ 60 2,4,6-Tribromophenol	329	6.476	6.481	(1.091)	75781	75.9481 2640
\$ 81 p-Terphenyl-d14	244	7.856	7.861	(0.914)	343069	45.5719 1580

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.802	7.813	(0.907)	6144	0.48587	16.9 (a)
68 Phenanthrene	178	6.947	6.952	(1.002)	6033	0.47491	16.5 (a)
76 Fluoranthene	202	7.663	7.669	(1.105)	8145	0.71718	24.9 (a)
89 Benzo (a) anthracene	228	8.594	8.600	(0.999)	5710	0.52692	18.3 (a)
95 Benzo (b) fluoranthene	252	9.583	9.600	(0.953)	3770	0.44006	15.3 (a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation (BLOQ).

ION RATIO REPORT

SV REPORT

Data file: s4c0419.d

Report Date: 03/05/2010 07:56

Lab. ID: 247332007

SampleType: SAMPLE

Injection Date: 04-MAR-2010 19:19

Operator: JMB3

Instrument: MSD4.i

Sample Info: |247332007|956285|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	16913	3.54	3.61	80-120	100	(T)
93	268	3.50	3.61	453-513	2	(QT)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	17748	4.18	4.07	80-120	100	(T)
42	9020	4.18	4.07	27- 87	51	(T)

40	2-Chloronaphthalene		CAS#: 91-58-7			
162	22531	5.67	5.54	80-120	100	(T)
164	1280	5.67	5.54	3- 63	6	(T)
127	1685	5.67	5.54	8- 68	7	(QT)

42	o-Nitroaniline		CAS#: 88-74-4			
65	4784	5.64	5.60	80-120	100	()
92	16649	5.64	5.60	35- 95	348	(Q)
138	2305	5.67	5.60	79-139	48	(QT)

43	Dimethylphthalate		CAS#: 131-11-3			
163	59086	5.94	5.71	80-120	100	(T)
164	339464	5.94	5.71	0- 40	575	(QT)

44	2,6-Dinitrotoluene		CAS#: 606-20-2			
165	44997	5.94	5.77	80-120	100	(T)
63	649	5.94	5.77	53-113	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	44997	5.94	6.05	80-120	100	(T)
89	621	5.94	6.05	53-113	1	(QT)
63	649	5.94	6.05	24- 84	1	(QT)

52 4-Nitrophenol		CAS#: 100-02-7				
139	72	6.08	5.99	80-120	100	(T)
109	492	6.06	5.99	37- 97	679	(QT)
65	2002	6.02	5.99	67-127	2760	(Q)

53 Fluorene		CAS#: 86-73-7				
166	3789	6.48	6.32	80-120	100	(T)
165	3983	6.48	6.32	62-122	105	(T)
167	1330	6.48	6.32	0- 44	35	(T)

55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	227	6.48	6.34	80-120	100	(T)
105	822	6.48	6.34	16- 76	362	(QT)
51	451	6.48	6.34	35- 95	198	(QT)

68 Phenanthrene		CAS#: 85-01-8				
178	6033	6.95	6.95	80-120	100	()
179	1376	6.95	6.95	0- 46	23	()
176	1163	6.95	6.95	0- 49	19	()

69 Anthracene		CAS#: 120-12-7				
178	6033	6.95	6.98	80-120	100	()
179	1376	6.95	6.98	0- 46	23	()
176	1163	6.95	6.98	0- 49	19	()

76 Fluoranthene		CAS#: 206-44-0				
202	8145	7.66	7.67	80-120	100	()
203	1496	7.66	7.67	0- 48	18	()
101	1028	7.66	7.67	0- 42	13	()

79 Pyrene		CAS#: 129-00-0				
202	6144	7.80	7.81	80-120	100	()
200	1202	7.80	7.81	0- 51	20	()
101	916	7.80	7.81	0- 44	15	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	5710	8.59	8.60	80-120	100	()
226	1540	8.59	8.60	0- 56	27	()
229	2535	8.59	8.60	0- 50	44	()

92 Chrysene		CAS#: 218-01-9				
228	5710	8.59	8.63	80-120	100	()
229	2535	8.59	8.63	0- 50	44	()
226	1540	8.59	8.63	0- 59	27	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
94 Di-n-octylphthalate				CAS#: 117-84-0		
149	114	9.04	9.02	80-120	100	()
43	876	9.03	9.02	0- 40	765	(Q)

95 Benzo(b)fluoranthene				CAS#: 205-99-2		
252	3770	9.58	9.60	80-120	100	()
253	942	9.58	9.60	0- 52	25	()
125	789	9.59	9.60	0- 42	21	()

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	3770	9.58	9.63	80-120	100	()
253	942	9.58	9.63	0- 52	25	()
125	789	9.59	9.63	0- 41	21	()

Q qualifier indicates ion failed ratio requirement						

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Data file : /chem/MSD4.i/s030410a.b/s4c0419.d
 Lab Smp Id: 247332007 Client Smp ID: RE15-10-8343
 Inj Date : 04-MAR-2010 19:19
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |247332007|956285|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
 Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	4.13400	% moisture

Cpnd Variable

Local Compound Variable

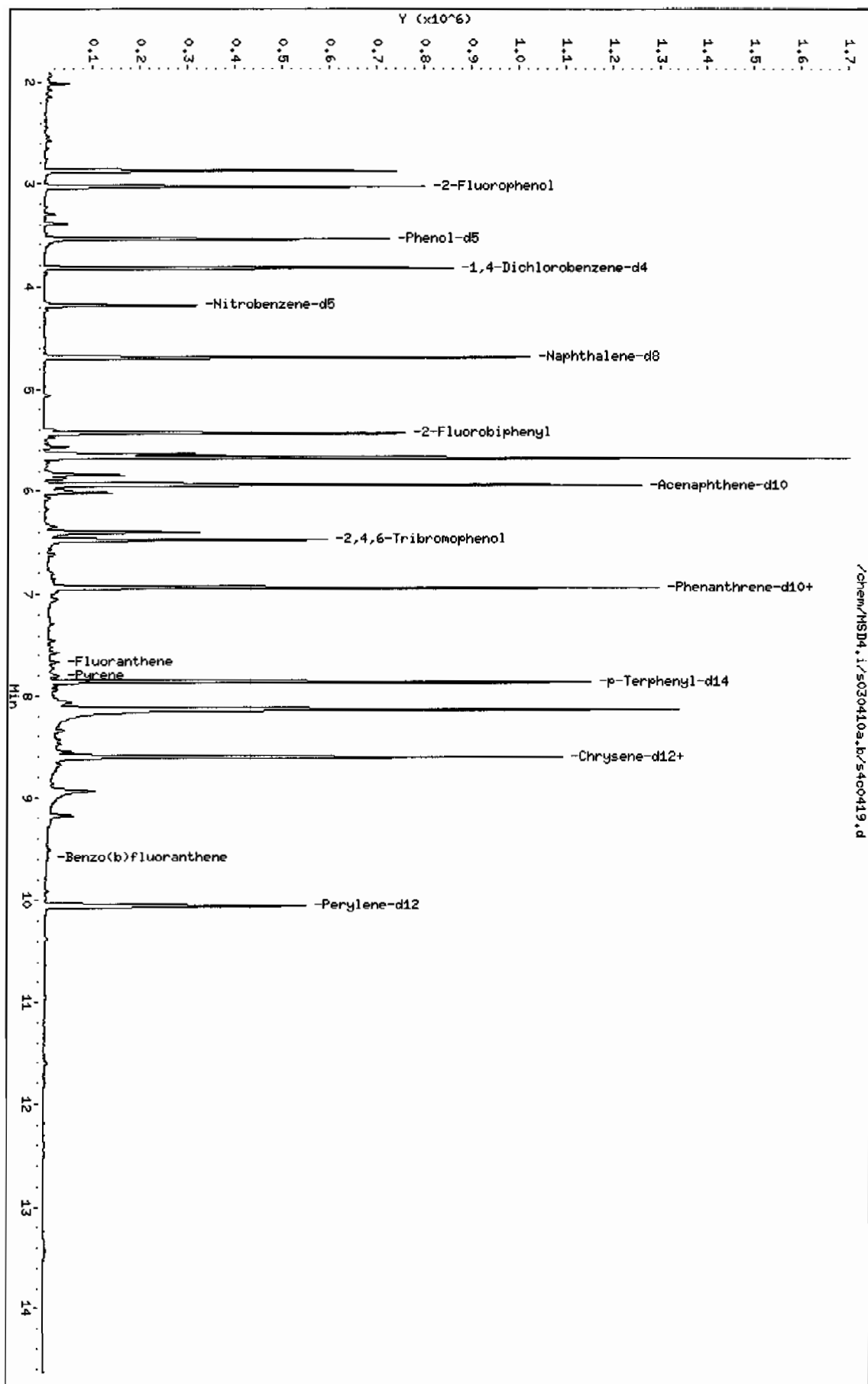
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.823	912336	40.000
* 46 Acenaphthene-d10	5.936	1560484	40.000
* 91 Chrysene-d12	8.599	1272996	40.000

CONCENTRATIONS				QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY CPND #
=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.871	850070	37.2700027	1290	0		0	10
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6					CAS #: 5989-08-2		
5.636	495734	12.7071823	441	86	NIST05.L	59909	46
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.668	2039871	52.2881559	1820	99	NIST05.L	60024	46
1,5,5-Trimethyl-6-methylene-cyclohexene					CAS #: 514-95-4		
5.839	238537	6.11444098	212	93	NIST05.L	15292	46
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr					CAS #: 19912-83-5		
6.016	194207	4.97811948	173	97	NIST05.L	59904	46
Cedrol					CAS #: 77-53-2		
6.401	452903	11.6092822	403	94	NIST05.L	72884	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.129	2264280	71.1480419	2470	97	NIST05.L	116239	91
Unknown					CAS #:		
8.936	305263	9.59195854	333	0		0	91

Data File: /chem/MSD4.i/s030410a.b/s400419.d
 Date: 04-MAR-2010 19:19
 Client ID: RE15-10-8343
 Sample Info: 1247332007195628511SVH11LNL
 Volume Injected (uL): 0.5
 Column phase: J&M DB-5MS

Instrument: MSD4.i
 Operator: JMB3
 Column diameter: 0.20



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: HSD4.i

Sample Info: I247332007I9562851IISVM11ILANL

Volume Injected (uL): 0.5

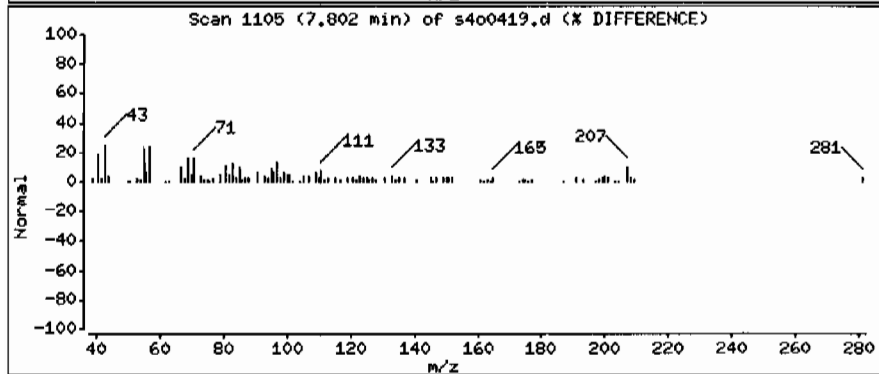
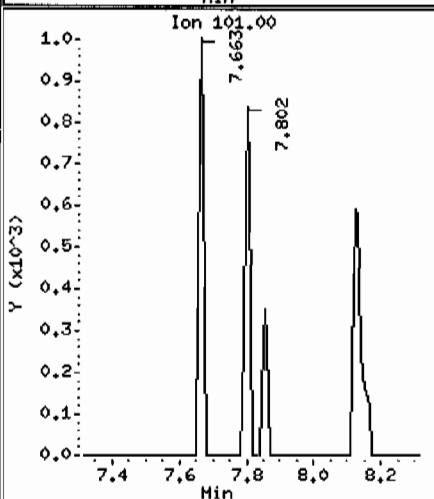
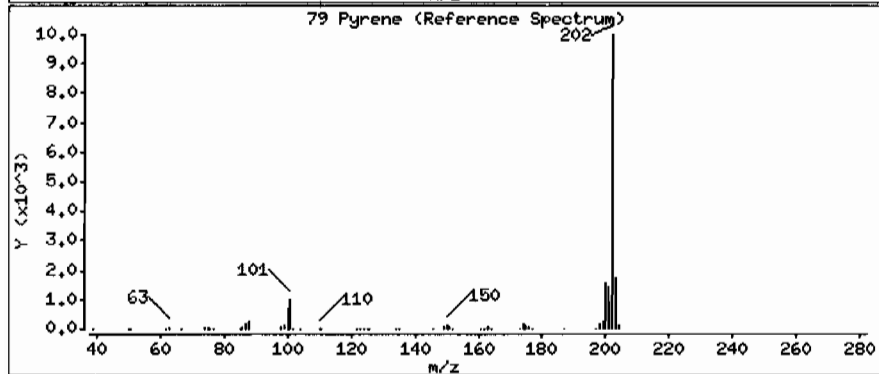
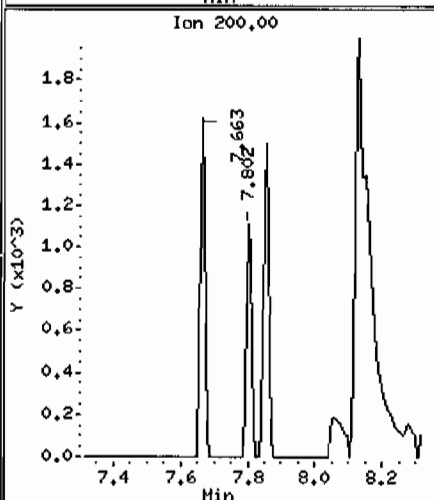
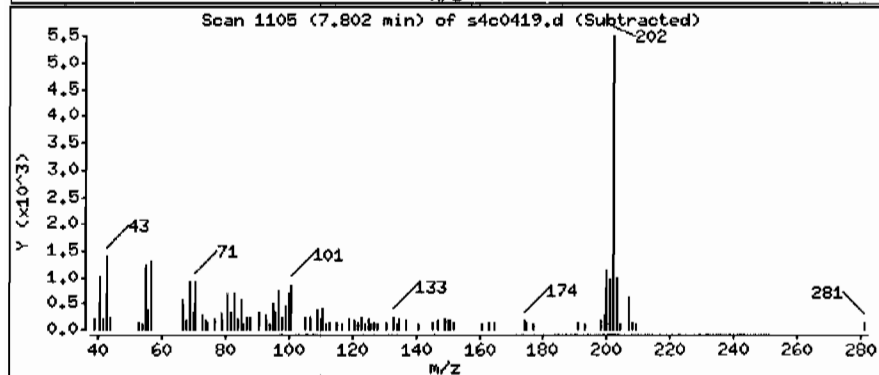
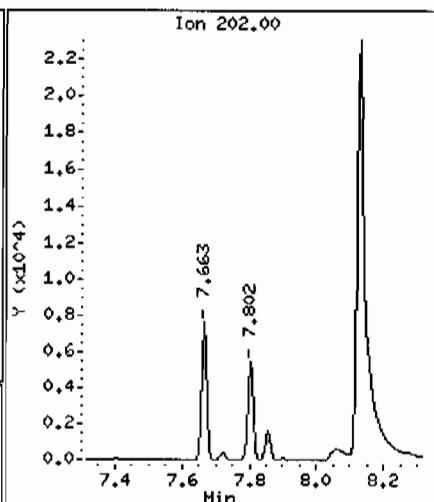
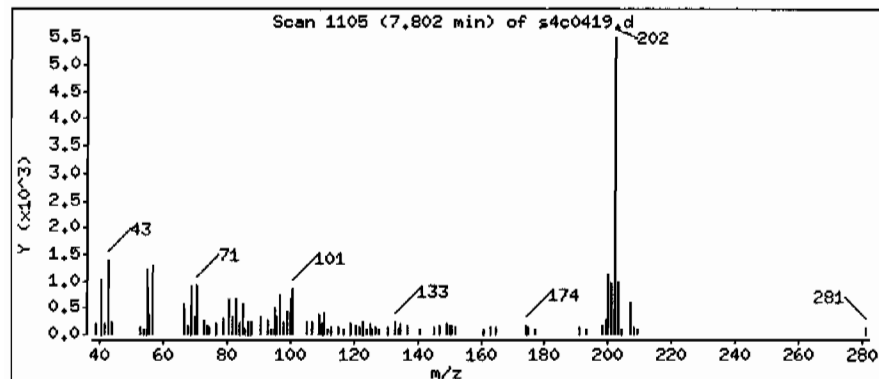
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 16.9 ug/Kg



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: HSD4.i

Sample Info: 12473320071956285111SVMI11LANL

Volume Injected (uL): 0.5

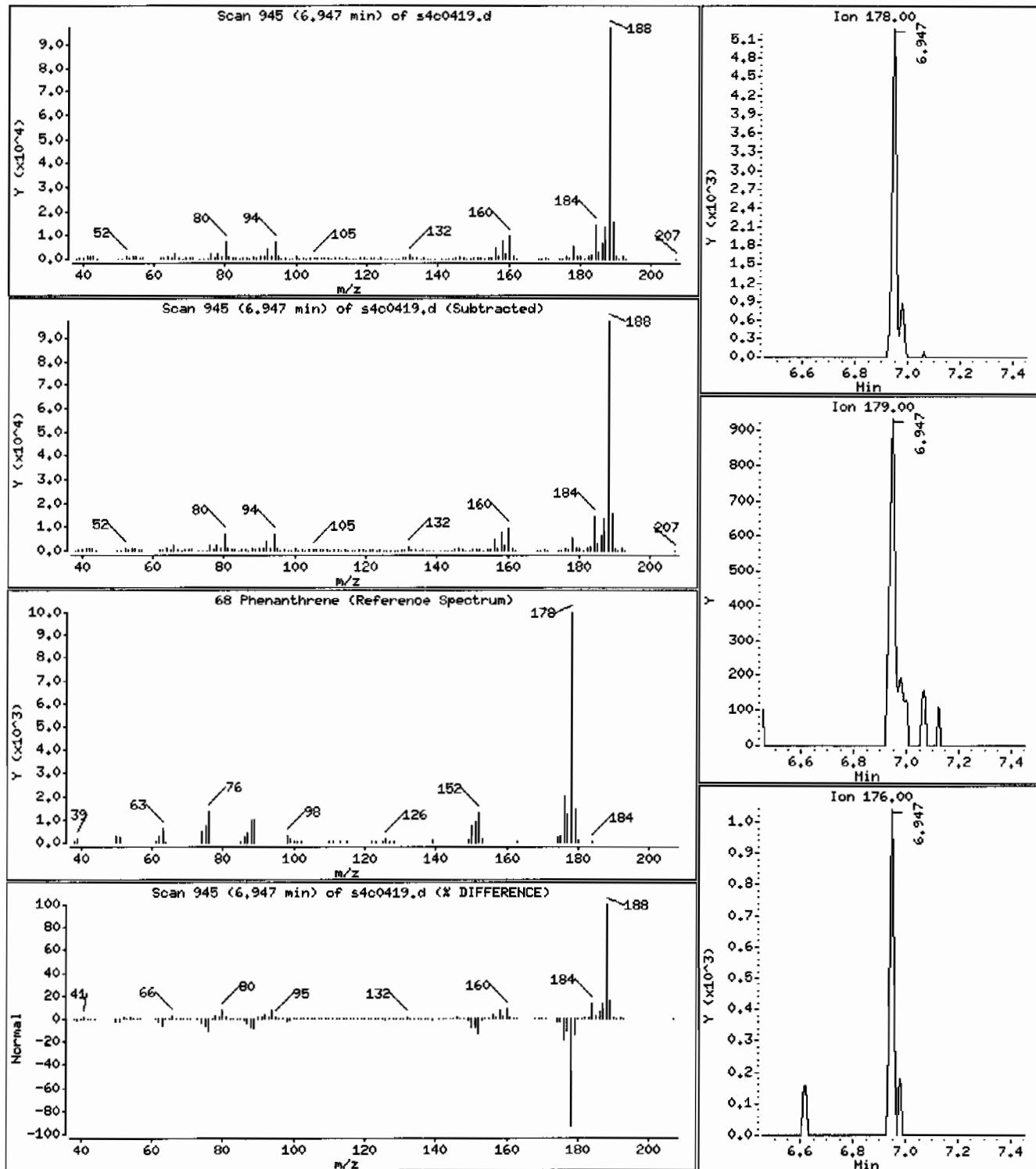
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0,20

68 Phenanthrene

Concentration: 16,5 ug/Kg



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: 1247332007195628511|SVH11|LANL

Volume Injected (uL): 0.5

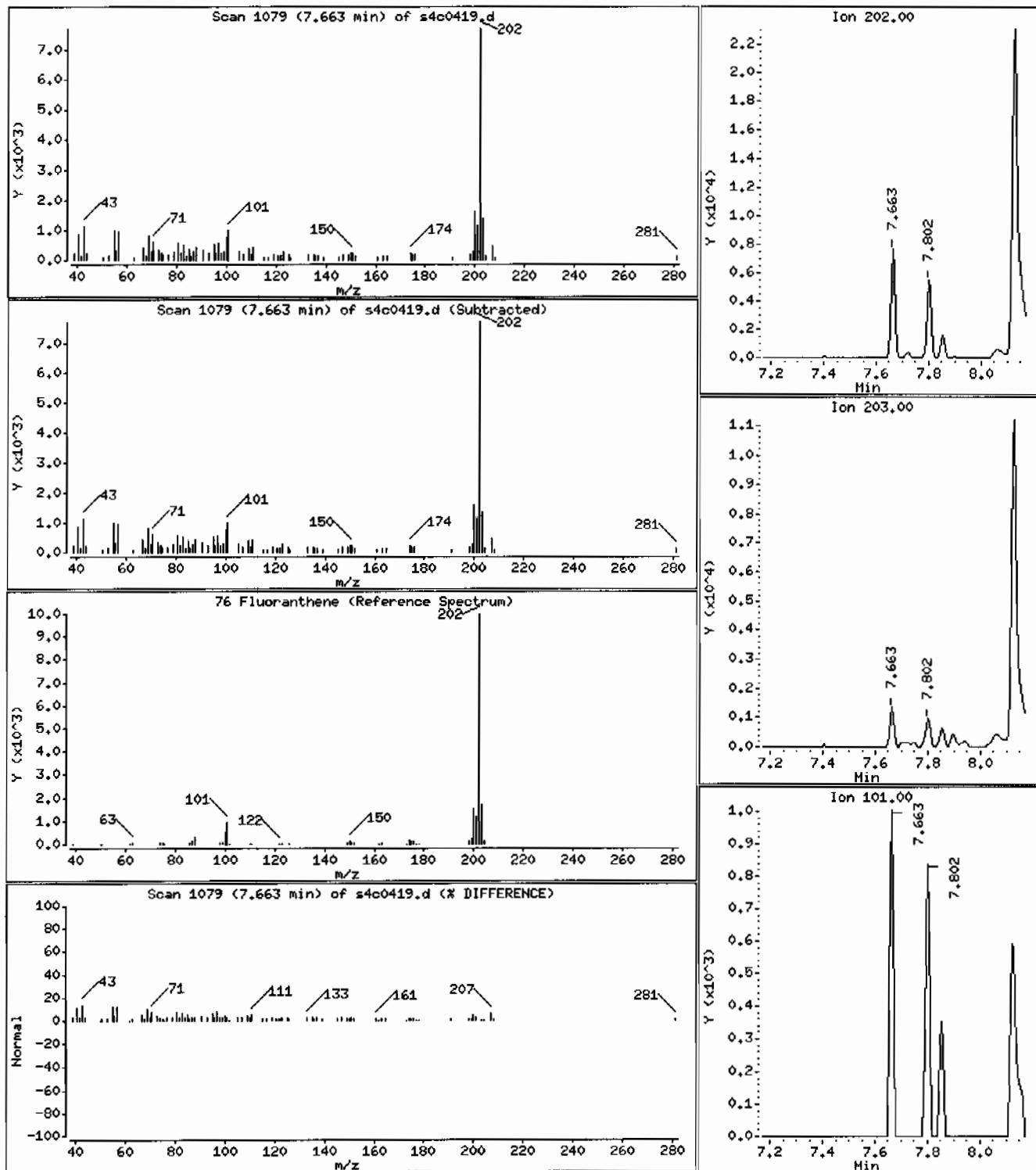
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 24.9 ug/Kg



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: 1247332007195628511SVH111LANL

Volume Injected (uL): 0.5

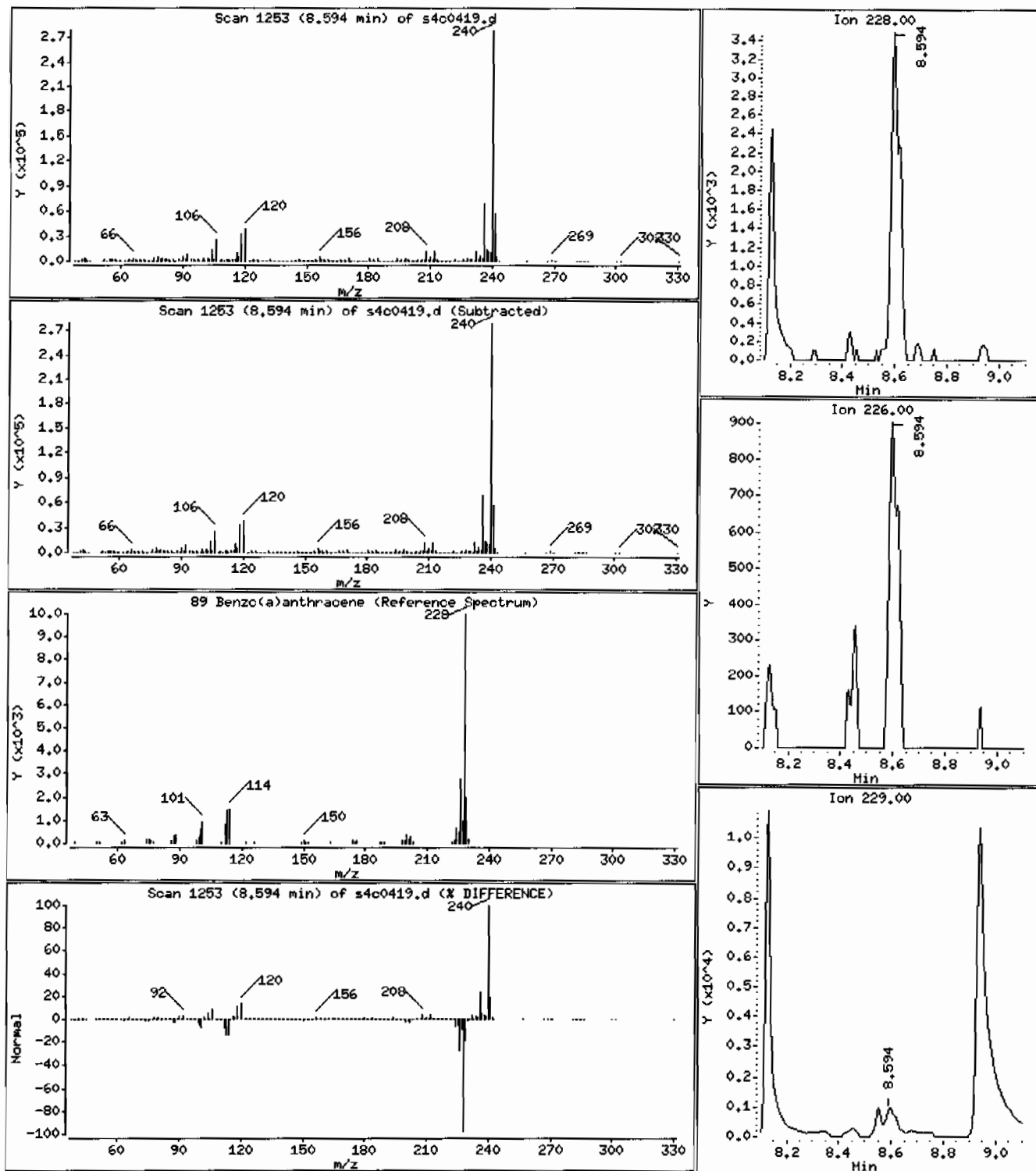
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 18.3 ug/Kg



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: HSD4.i

Sample Info: 12473320071956285111SVH111LANL

Volume Injected (uL): 0.5

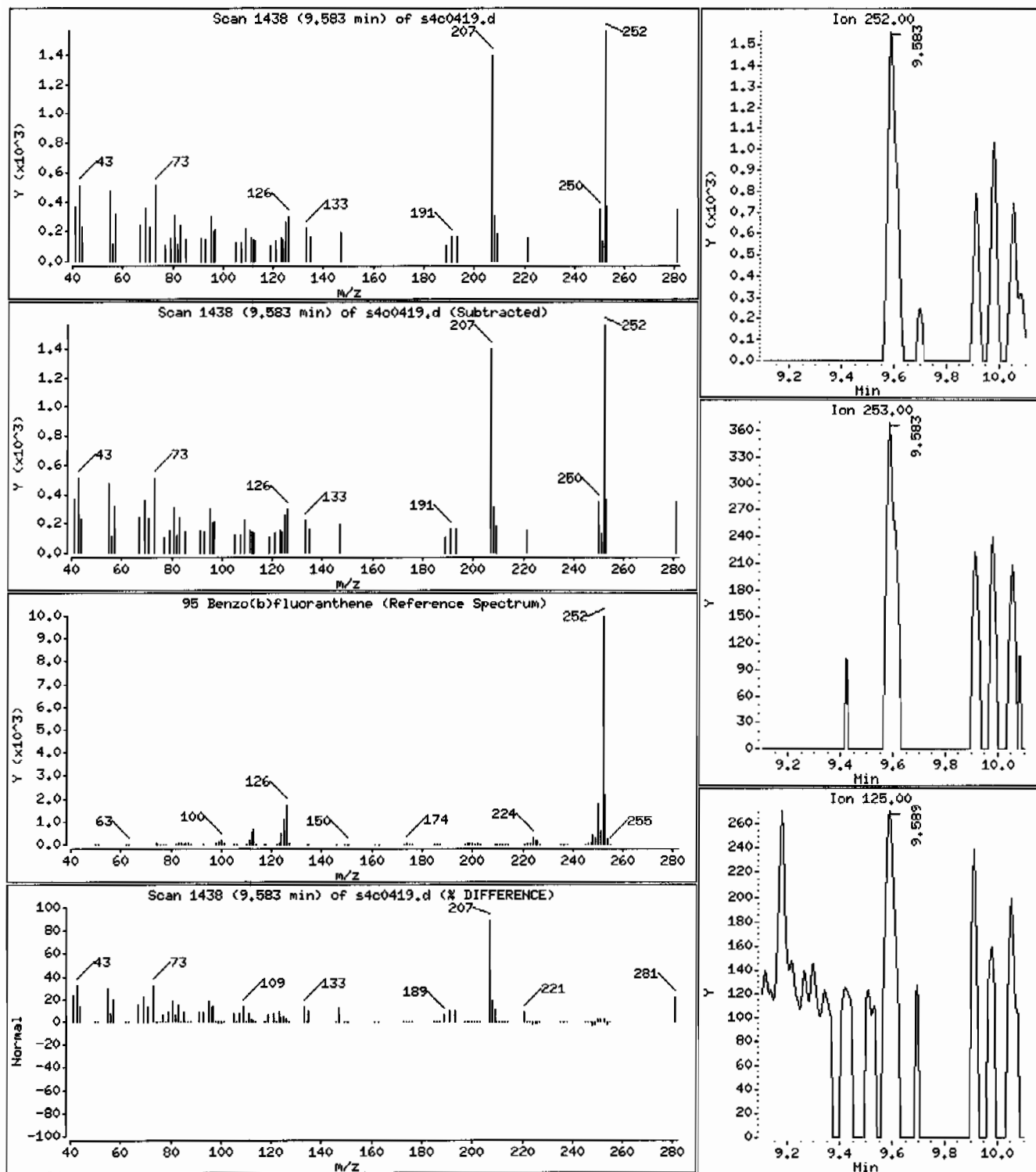
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 15.3 ug/Kg



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: 1247332007195628511ISVH11ILANL

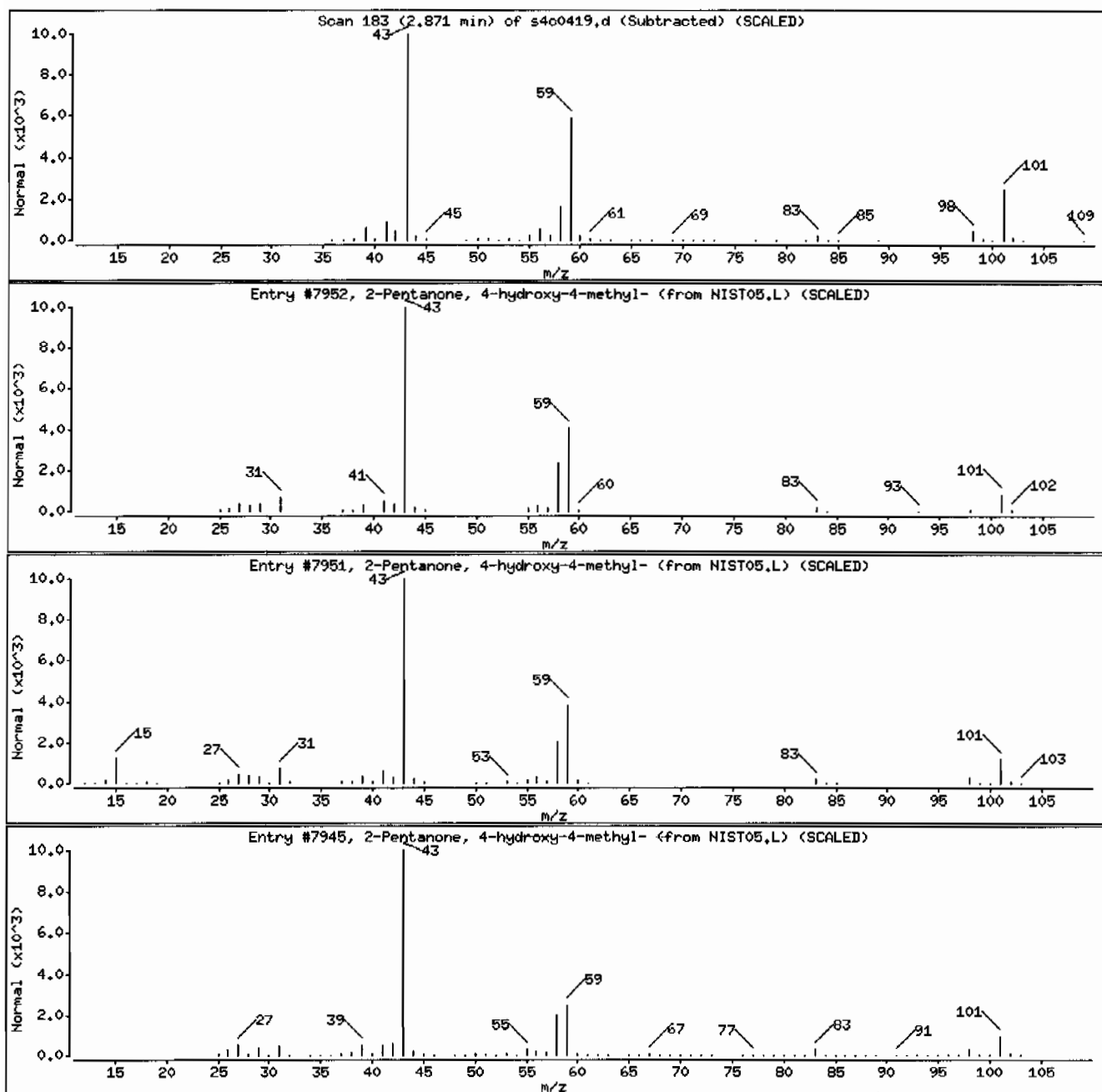
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	7962	56	C ₆ H ₁₂ O ₂	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C ₆ H ₁₂ O ₂	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	38	C ₆ H ₁₂ O ₂	116



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: 1247332007195628511SVMI1ILANL

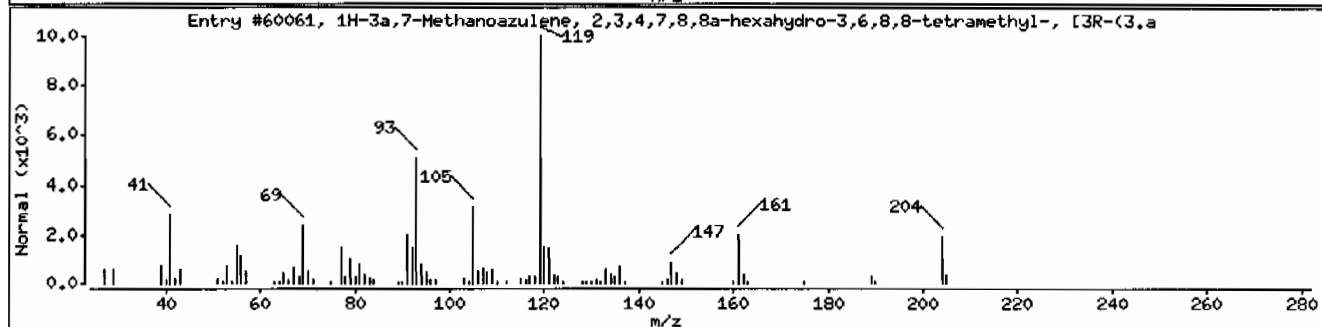
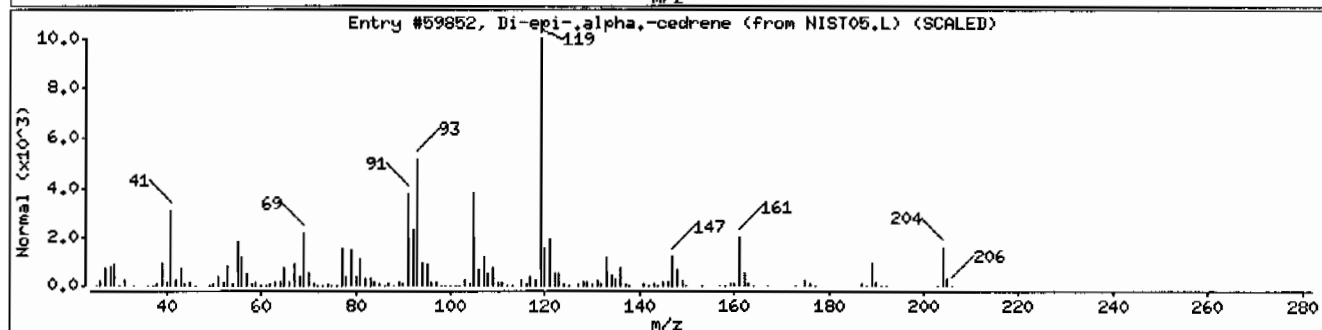
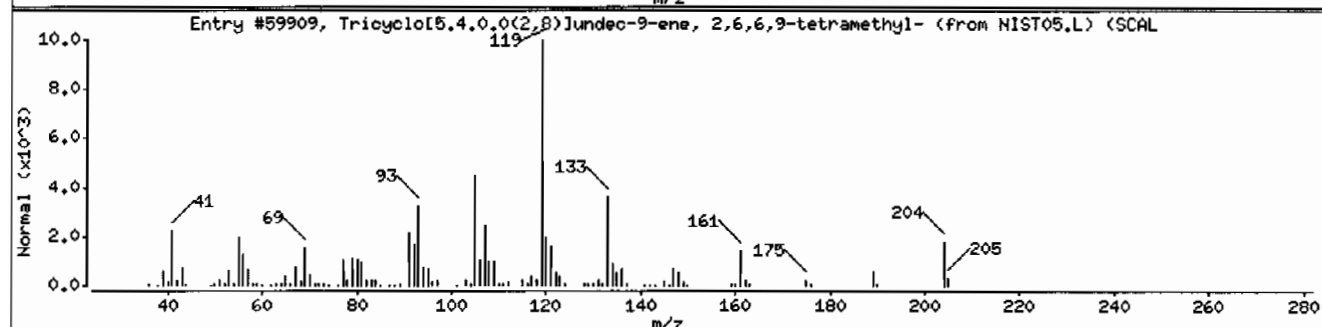
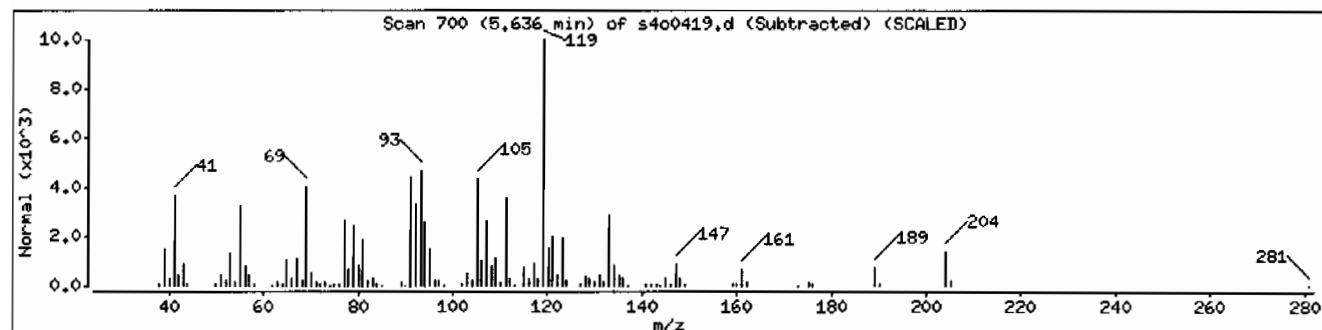
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59909	86	C15H24	204
Di-epi-,alpha,-cedrene	1000156-13-3	NIST05.L	59852	58	C15H24	204
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60061	53	C15H24	204



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: 1247332007195628511SVMI11LANL

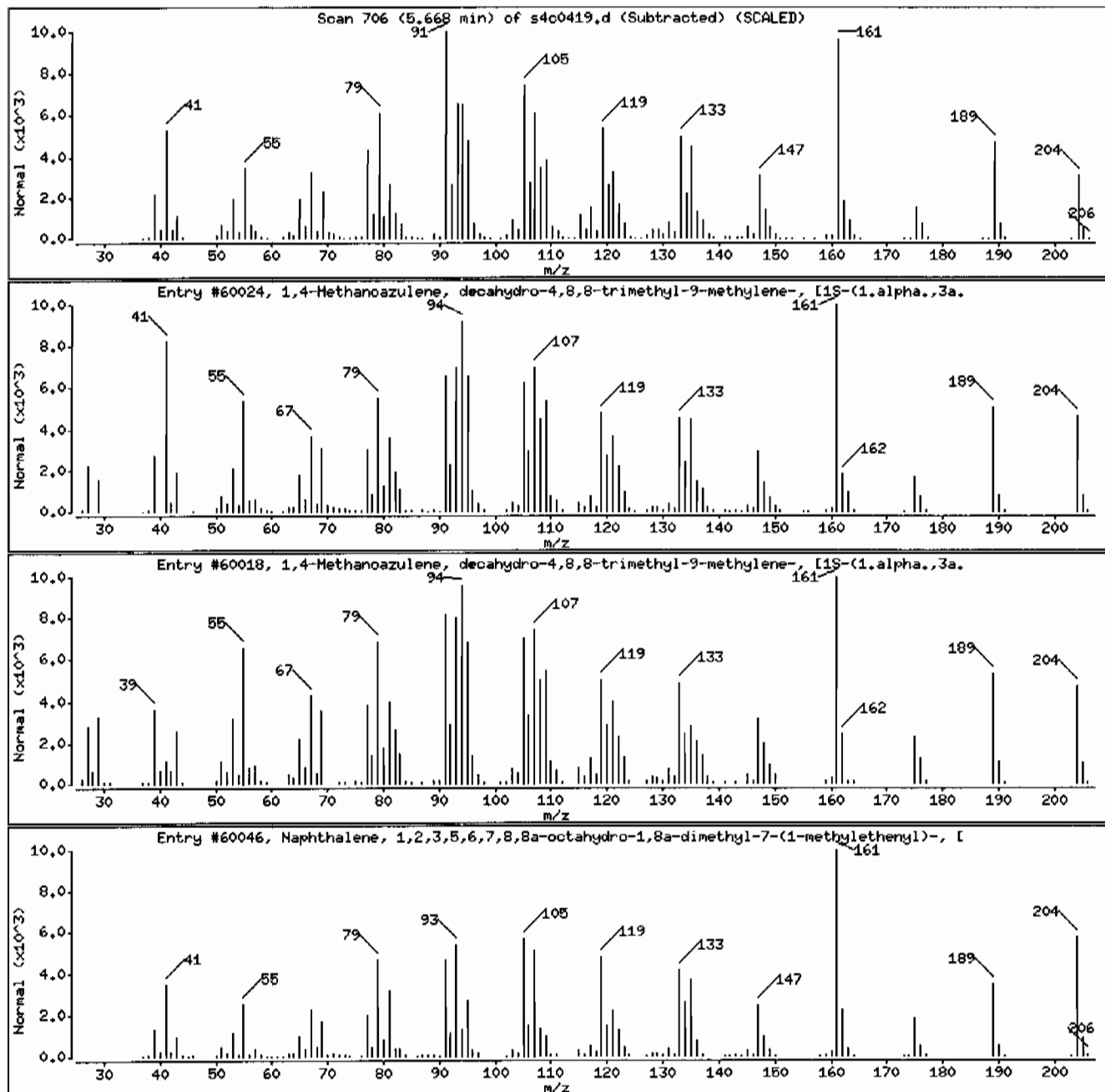
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	96	C15H24	204



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: 1247332007195628511SVMI11LANL

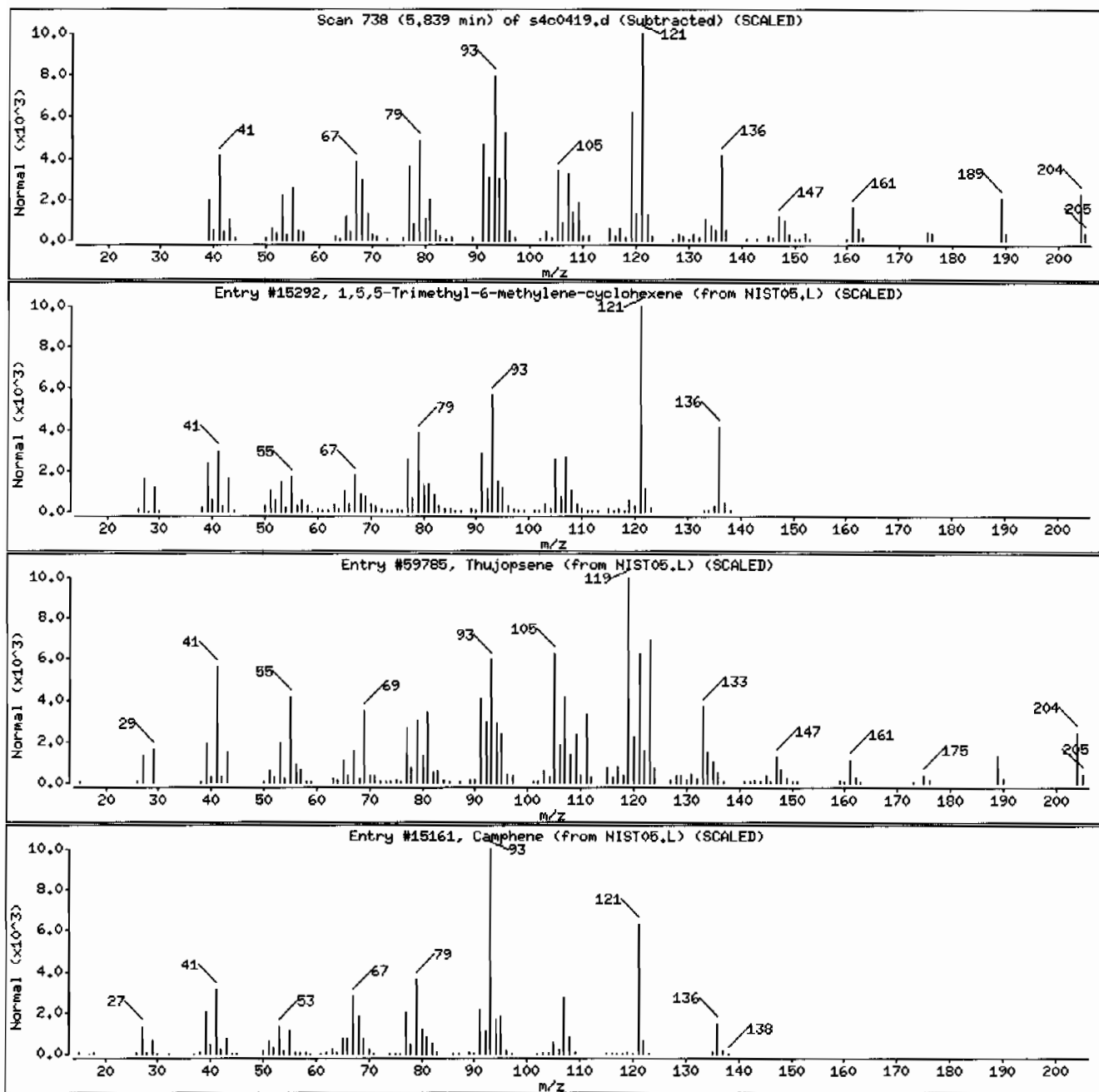
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	93	C10H16	136
Thujopsene	470-40-6	NIST05.L	59785	90	C15H24	204
Camphene	79-92-5	NIST05.L	15161	83	C10H16	136



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: HSD4.i

Sample Info: 1247332007195628511SVH111LANL

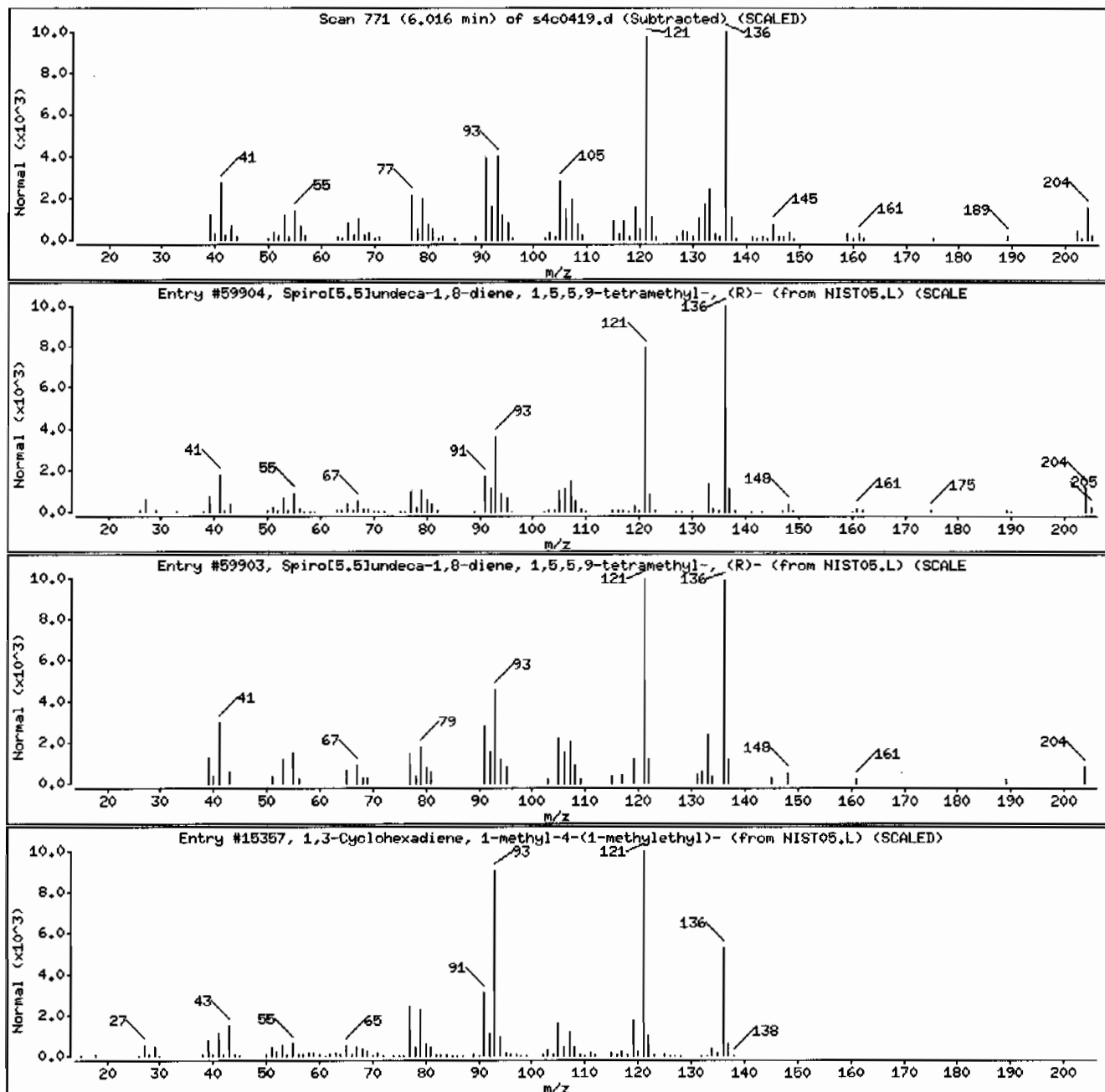
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59904	97	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59903	94	C15H24	204
1,3-Cyclohexadiene, 1-methyl-4-(1-methyl	99-86-5	NIST05.L	15357	74	C10H16	136



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: 1247332007195628511SVMI11LANL

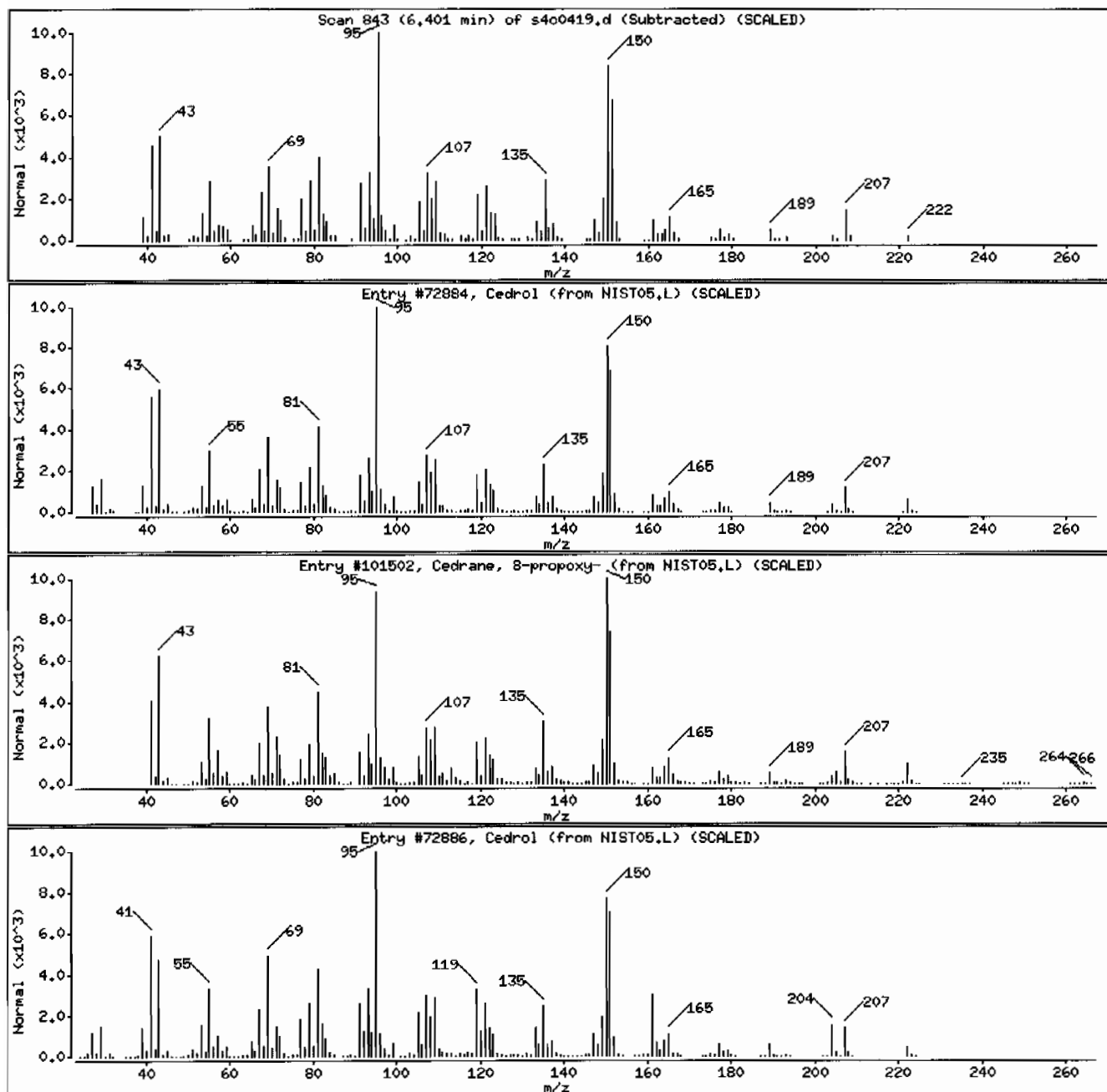
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72884	94	C15H26O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	94	C18H32O	264
Cedrol	77-53-2	NIST05.L	72886	91	C15H26O	222



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: I2473320071956285111SVMI11LANL

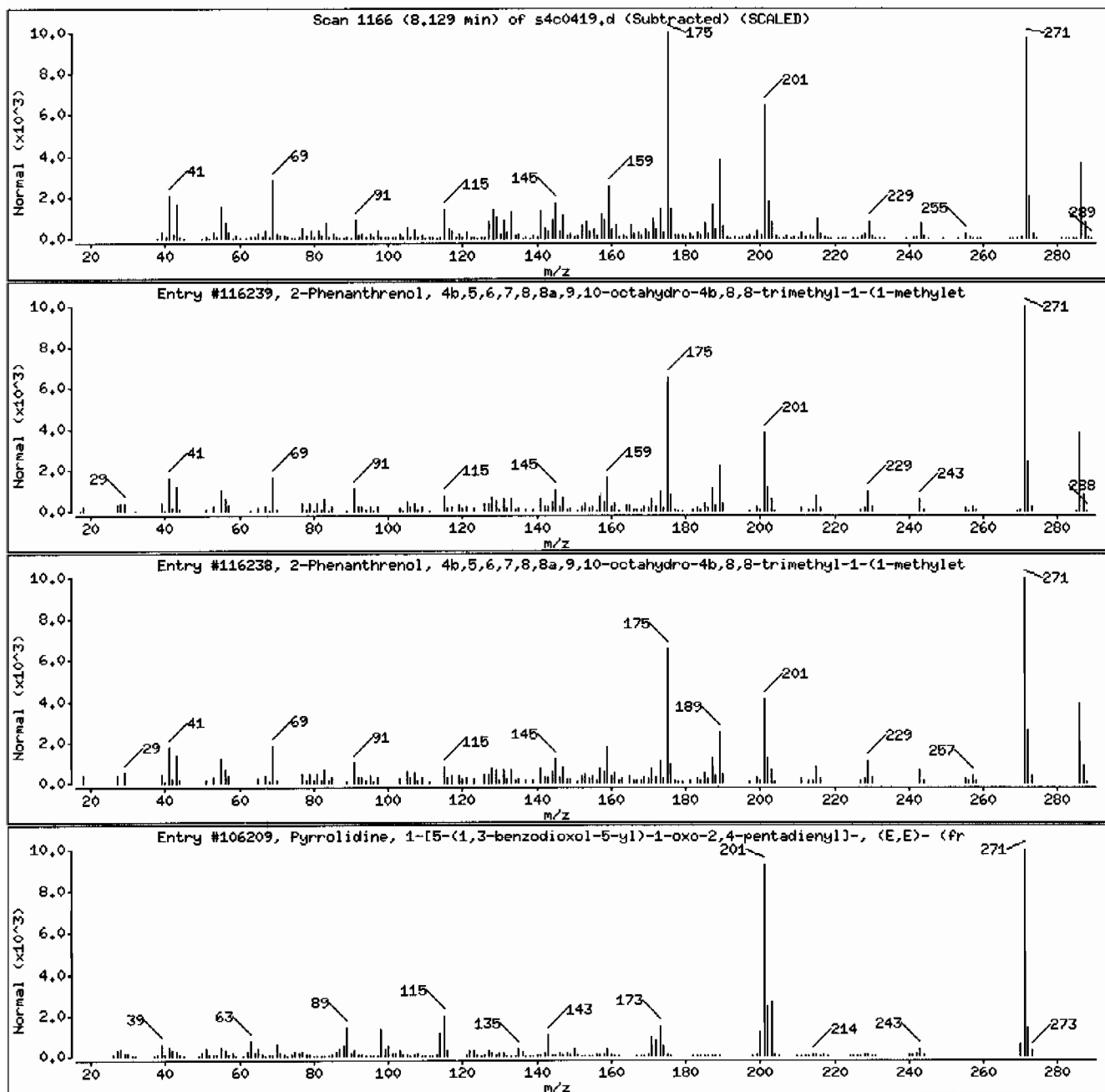
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	97	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	96	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	NIST05.L	106209	27	C16H17NO3	271



Date : 04-MAR-2010 19:19

Client ID: RE15-10-8343

Instrument: MSD4.i

Sample Info: I247332007195628511SVH11ILANL

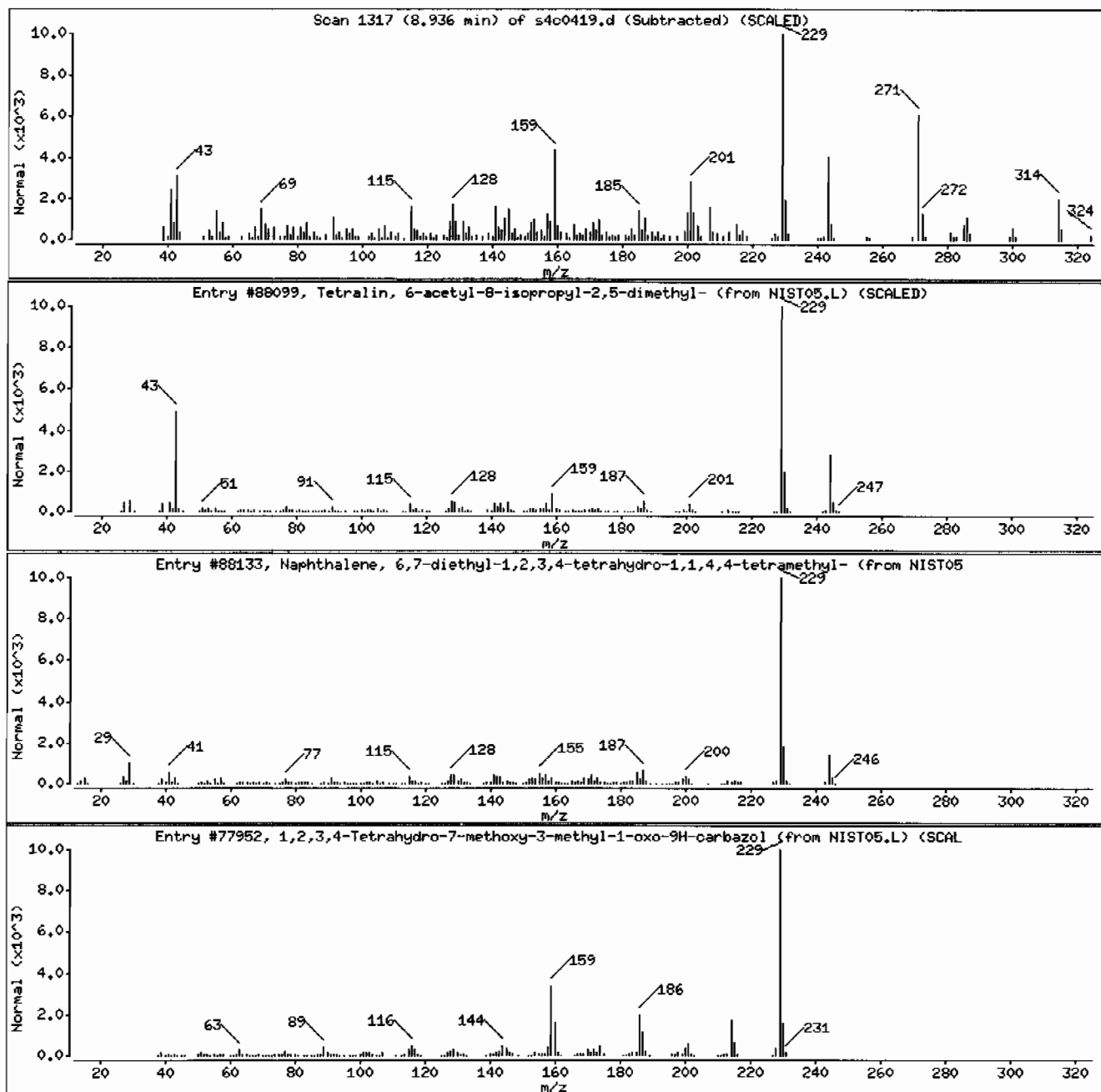
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetralin, 6-acetyl-8-isopropyl-2,5-dimet	1000155-43-5	NIST05.L	88099	64	C17H24O	244
Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	55741-10-1	NIST05.L	88133	47	C18H28	244
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-	32550-51-9	NIST05.L	77952	45	C14H15NO2	229



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332004

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8344
Batch ID: 956285
Run Date: 03/04/2010 18:12
Prep Date: 02/23/2010 10:34
Data File: s4c0416.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.5	352
108-95-2	Phenol	U	352	ug/kg	70.5	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.5	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.5	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.5	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.5	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.1	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.5	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.5	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.5	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.5	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.5	352
95-48-7	o-Cresol	U	352	ug/kg	70.5	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.5	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.5	352
78-59-1	Isophorone	U	352	ug/kg	70.5	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.5	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.5	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.5	352
65-85-0	Benzoic acid	U	705	ug/kg	176	705
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.5	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.5	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.05	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.5	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.5	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.5	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.5	352
99-09-2	3-Nitroaniline	U	352	ug/kg	70.5	352

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332004	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8344	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4J	Dilution: 1
Run Date: 03/04/2010 18:12	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0416.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	352	ug/kg	70.5	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	705	ug/kg	134	705
132-64-9	Dibenzofuran	U	352	ug/kg	70.5	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.5	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.5	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.5	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.5	352
122-66-7	Azobenzene	U	352	ug/kg	70.5	352
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.5	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.5	352
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	7.05	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.5	352
206-44-0	Fluoranthene	U	35.2	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.5	352
56-55-3	Benzo(a)anthracene	U	35.2	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene	U	35.2	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.5	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.5	352
205-99-2	Benzo(b)fluoranthene	U	35.2	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	U	35.2	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.5	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	623	ug/kg		J
	Unknown	5.64	885	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332004	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8344	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4J	Dilution: 1
Run Date: 03/04/2010 18:12	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0416.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
---------	----------	-----------	--------	-------	---------	---------

Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	3130	ug/kg	99	NJ
5794-03-6	Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5.84	303	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	315	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	1350	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	5150	ug/kg	98	NJ
	Unknown	8.94	689	ug/kg		J

Data File: /chem/MSD4.i/s030410a.b/s4c0416.d
Report Date: 05-Mar-2010 08:10

Page 1

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Data file : /chem/MSD4.i/s030410a.b/s4c0416.d
Lab Smp Id: 247332004 Client Smp ID: RE15-10-8344
Inj Date : 04-MAR-2010 18:12
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332004|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	5.42780	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829 (1.000)	155729	40.0000	
* 29 Naphthalene-d8	136	4.689	4.690 (1.000)	580005	40.0000	
* 46 Acenaphthene-d10	164	5.936	5.941 (1.000)	342973	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936 (1.000)	581634	40.0000	
* 91 Chrysene-d12	240	8.605	8.610 (1.000)	492970	40.0000	
* 98 Perylene-d12	264	10.054	10.070 (1.000)	358765	40.0000	
\$ 3 2-Fluorophenol	112	3.031	3.021 (0.793)	271596	74.9751	2640
\$ 5 Phenol-d5	99	3.545	3.545 (0.927)	323337	71.5276	2520
\$ 20 Nitrobenzene-d5	82	4.187	4.192 (0.893)	128235	31.0125	1090
\$ 39 2-Fluorobiphenyl	172	5.428	5.433 (0.914)	300434	32.6190	1150
\$ 60 2,4,6-Tribromophenol	329	6.481	6.481 (1.092)	91285	90.5503	3190
\$ 81 p-Terphenyl-d14	244	7.861	7.861 (0.914)	369571	46.9953	1660

ION RATIO REPORT

SV REPORT

Data file: s4c0416.d

Report Date: 03/05/2010 07:56

Lab. ID: 247332004

SampleType: SAMPLE

Injection Date: 04-MAR-2010 18:12

Operator: JMB3

Instrument: MSD4.i

Sample Info: |247332004|956285|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	17192	3.54	3.61	80-120	100	(T)
93	262	3.50	3.61	453-513	2	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	18007	4.19	4.07	80-120	100	(T)
42	9154	4.19	4.07	27- 87	51	(T)

40	2-Chloronaphthalene	CAS#: 91-58-7				
162	45525	5.67	5.54	80-120	100	(T)
164	2413	5.67	5.54	3- 63	5	(T)
127	3454	5.67	5.54	8- 68	8	(T)

42	o-Nitroaniline	CAS#: 88-74-4				
65	11894	5.64	5.60	80-120	100	()
92	36481	5.64	5.60	35- 95	307	(Q)
138	4275	5.67	5.60	79-139	36	(QT)

43	Dimethylphthalate	CAS#: 131-11-3				
163	20545	5.67	5.71	80-120	100	()
164	2413	5.67	5.71	0- 40	12	()

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	45180	5.94	5.77	80-120	100	(T)
63	1029	5.93	5.77	53-113	2	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	45180	5.94	6.05	80-120	100	(T)
89	936	5.94	6.05	53-113	2	(QT)
63	1029	5.93	6.05	24- 84	2	(QT)
<hr/>						
51 Diethylphthalate		CAS#: 84-66-2				
149	30425	6.40	6.20	80-120	100	(T)
177	7825	6.40	6.20	0- 52	26	(T)
150	121845	6.40	6.20	0- 42	400	(QT)
<hr/>						
52 4-Nitrophenol		CAS#: 100-02-7				
139	72	6.08	5.99	80-120	100	(T)
109	1233	6.06	5.99	37- 97	1700	(QT)
65	4082	6.02	5.99	67-127	5627	(Q)
<hr/>						
53 Fluorene		CAS#: 86-73-7				
166	5581	6.40	6.32	80-120	100	(T)
165	16143	6.40	6.32	62-122	289	(QT)
167	1172	6.40	6.32	0- 44	21	(T)
<hr/>						
55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	297	6.48	6.34	80-120	100	(T)
105	1662	6.48	6.34	16- 76	559	(QT)
51	442	6.48	6.34	35- 95	149	(QT)
<hr/>						
58 1,2-Diphenylhydrazine		CAS#: 122-66-7				
77	28570	6.40	6.41	80-120	100	()
105	28144	6.40	6.41	0- 46	99	(Q)
182	72	6.42	6.41	0- 55	0	()
<hr/>						
61 4-Bromophenylphenylether		CAS#: 101-55-3				
248	5349	6.48	6.63	80-120	100	(T)
141	42709	6.48	6.63	50-110	798	(QT)
250	10819	6.48	6.63	69-129	202	(QT)
<hr/>						
69 Anthracene		CAS#: 120-12-7				
178	3872	6.95	6.98	80-120	100	()
179	1177	6.95	6.98	0- 46	30	()
176	854	6.95	6.98	0- 49	22	()
<hr/>						
85 Butylbenzylphthalate		CAS#: 85-68-7				
149	14798	8.13	8.13	80-120	100	()
91	42266	8.13	8.13	40-100	286	(Q)
206	1357	8.13	8.13	0- 51	9	()
<hr/>						
89 Benzo(a)anthracene		CAS#: 56-55-3				
228	4684	8.60	8.60	80-120	100	()
226	1220	8.60	8.60	0- 56	26	()
229	2318	8.60	8.60	0- 50	49	()
<hr/>						

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
92 Chrysene		CAS#: 218-01-9				
228	4684	8.60	8.63	80-120	100	()
229	2318	8.60	8.63	0- 50	49	()
226	1220	8.60	8.63	0- 59	26	()

94 Di-n-octylphthalate		CAS#: 117-84-0				
149	224	9.04	9.02	80-120	100	()
43	15488	8.94	9.02	0- 40	6906	(QT)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s030410a.b/s4c0416.d
 Lab Smp Id: 247332004 Client Smp ID: RE15-10-8344
 Inj Date : 04-MAR-2010 18:12
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |247332004|956285|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
 Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	5.42780	% moisture

Cpnd Variable

Local Compound Variable

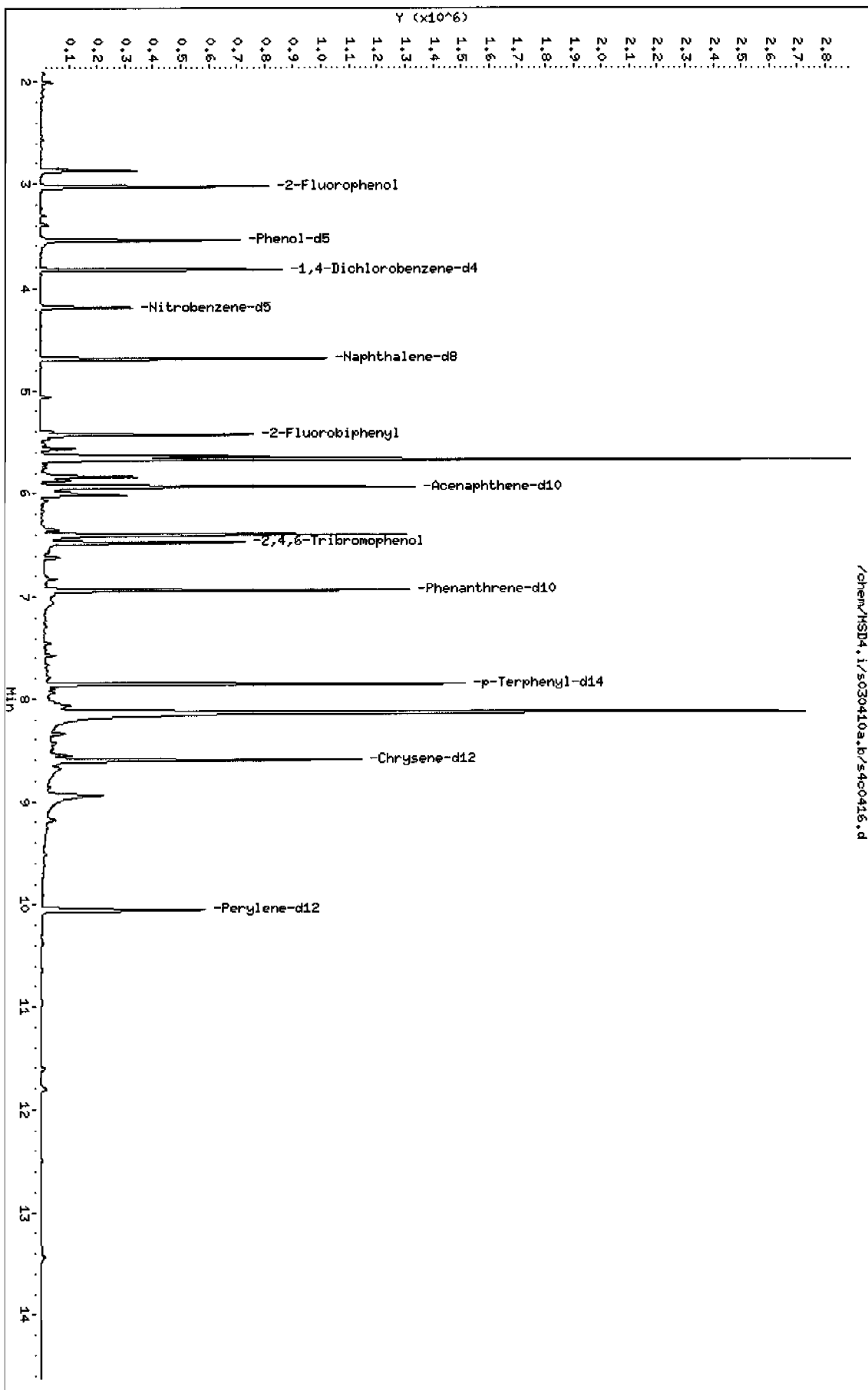
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.823	921320	40.000
* 46 Acenaphthene-d10	5.936	1717086	40.000
* 91 Chrysene-d12	8.605	1397623	40.000

CONCENTRATIONS				QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY
=====	=====	=====	=====	=====	=====	=====

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.871	407419	17.6884624	623	0		0	10
Unknown					CAS #:		
5.636	1078369	25.1209039	885	0		0	46
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.674	3815252	88.8773050	3130	99	NIST05.L	60024	46
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me					CAS #: 5794-03-6		
5.839	369353	8.60417815	303	83	NIST05.L	15386	46
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr					CAS #: 19912-83-5		
6.016	384143	8.94870507	315	97	NIST05.L	59904	46
Cedrane, 8-propoxy-					CAS #: 19870-75-8		
6.401	1638789	38.1760186	1340	94	NIST05.L	101502	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.134	5106811	146.157021	5150	98	NIST05.L	116239	91
Unknown					CAS #:		
8.942	682674	19.5381357	689	0		0	91

Data File: /chem/HSD4.i/s030410a.b/s400416.d
Date: 04-MAR-2010 18:12
Client ID: RELS-10-8344
Sample Info: 1247332004195628511SWH11LNL
Volume Injected (uL): 0.5
Column phase: JMW DB-SMS

Instrument: MSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: MSD4.i

Sample Info: 1247332004195628511SVH11ILANL

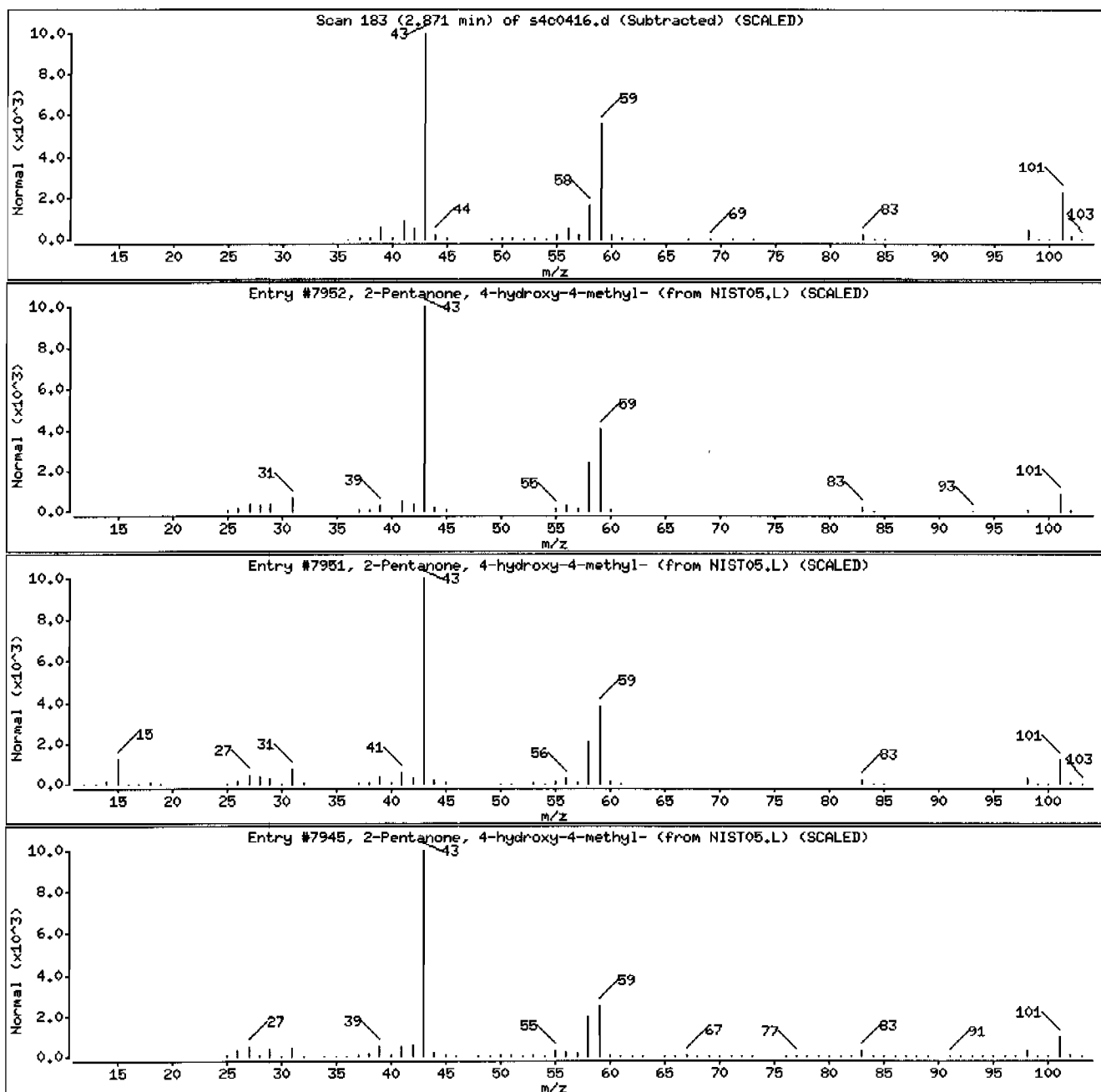
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	38	C6H12O2	116



Date : 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: HSD4.i

Sample Info: 1247332004195628511SVMI1LANL

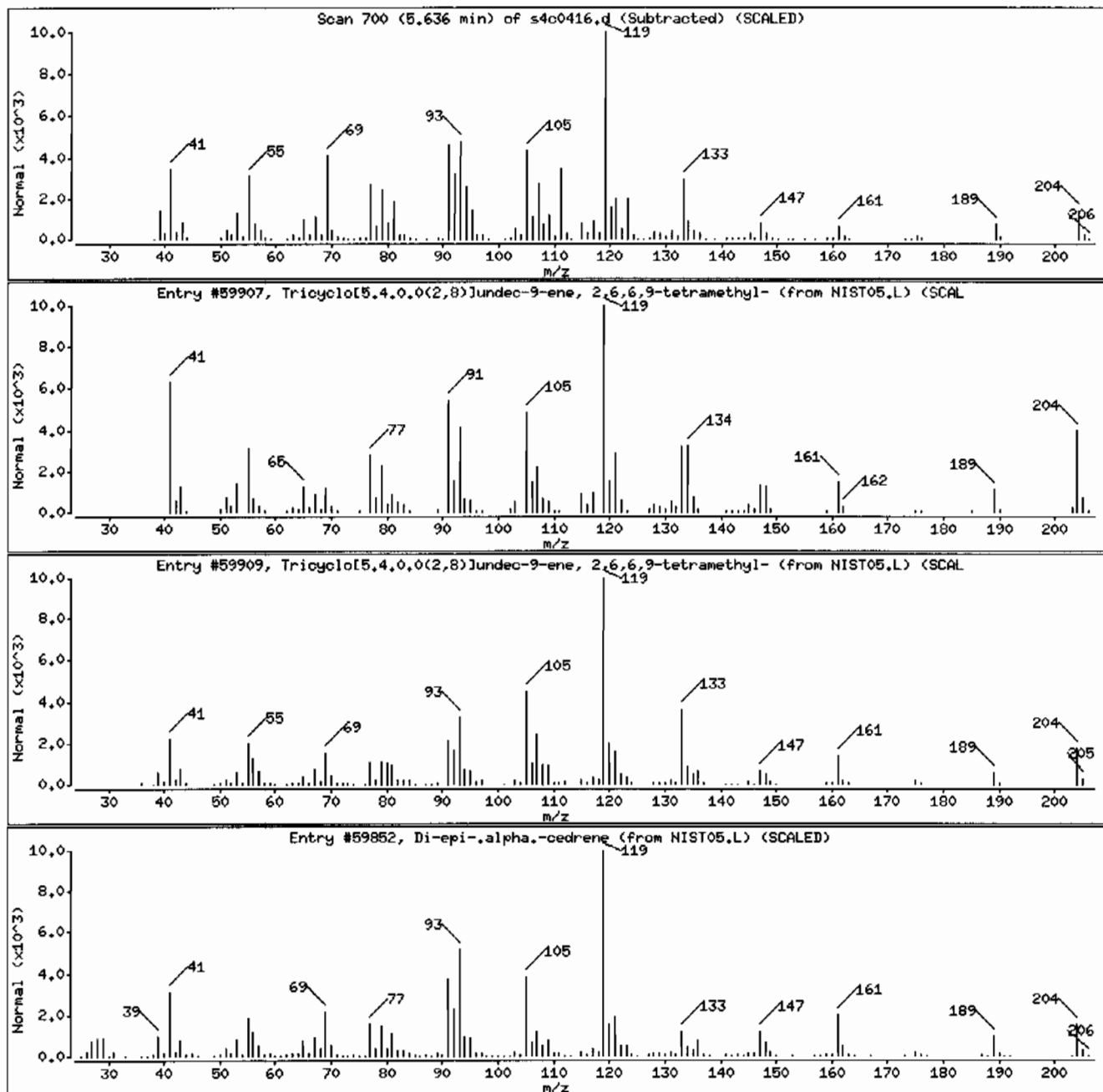
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	70	C15H24	204
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59909	70	C15H24	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	58	C15H24	204



Date : 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: MSD4.i

Sample Info: I247332004195628511SVH111LANL

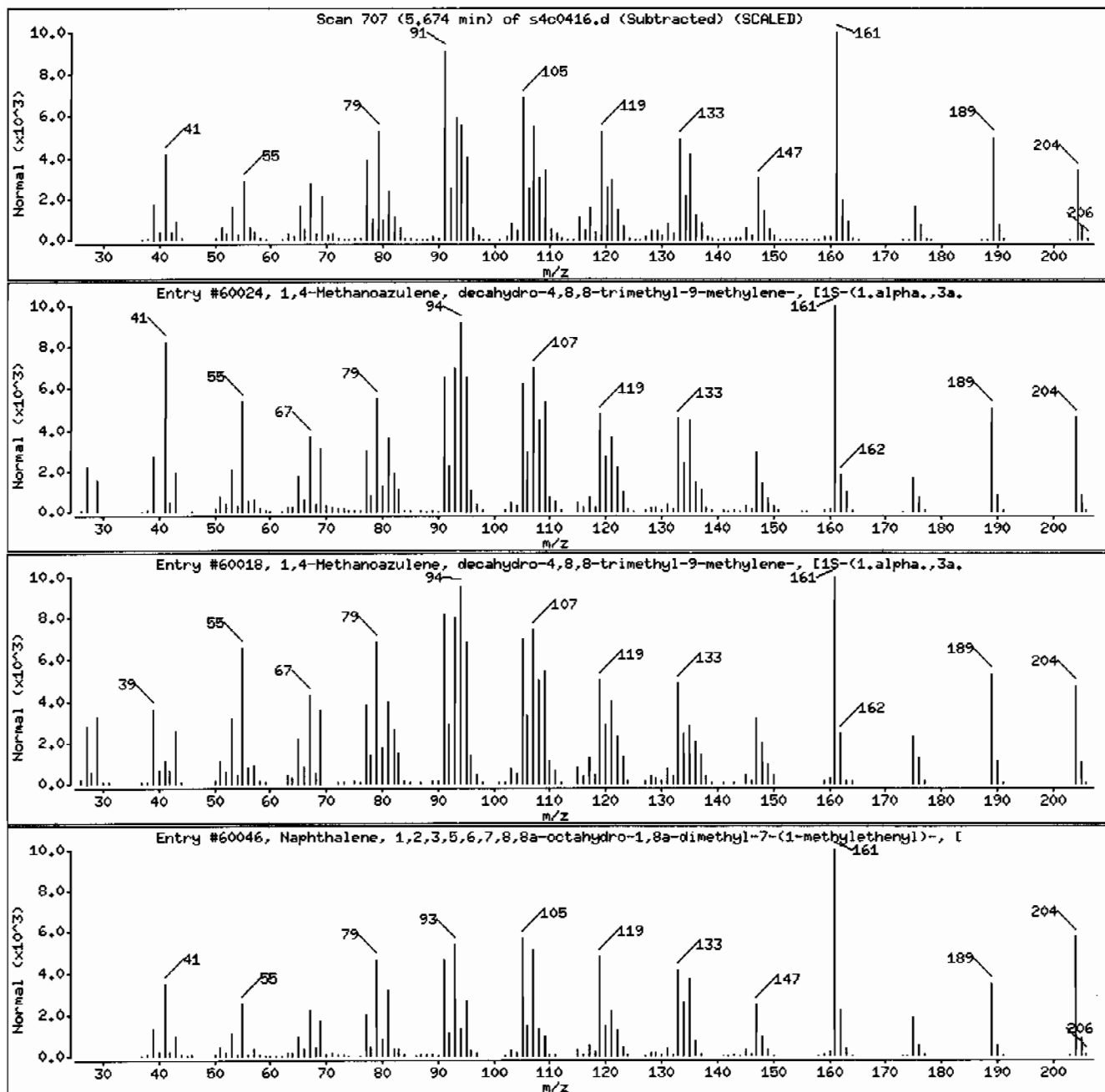
Volume Injected (UL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	97	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	97	C15H24	204



Date : 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: MSD4.i

Sample Info: 1247332004195628511SVH11LANL

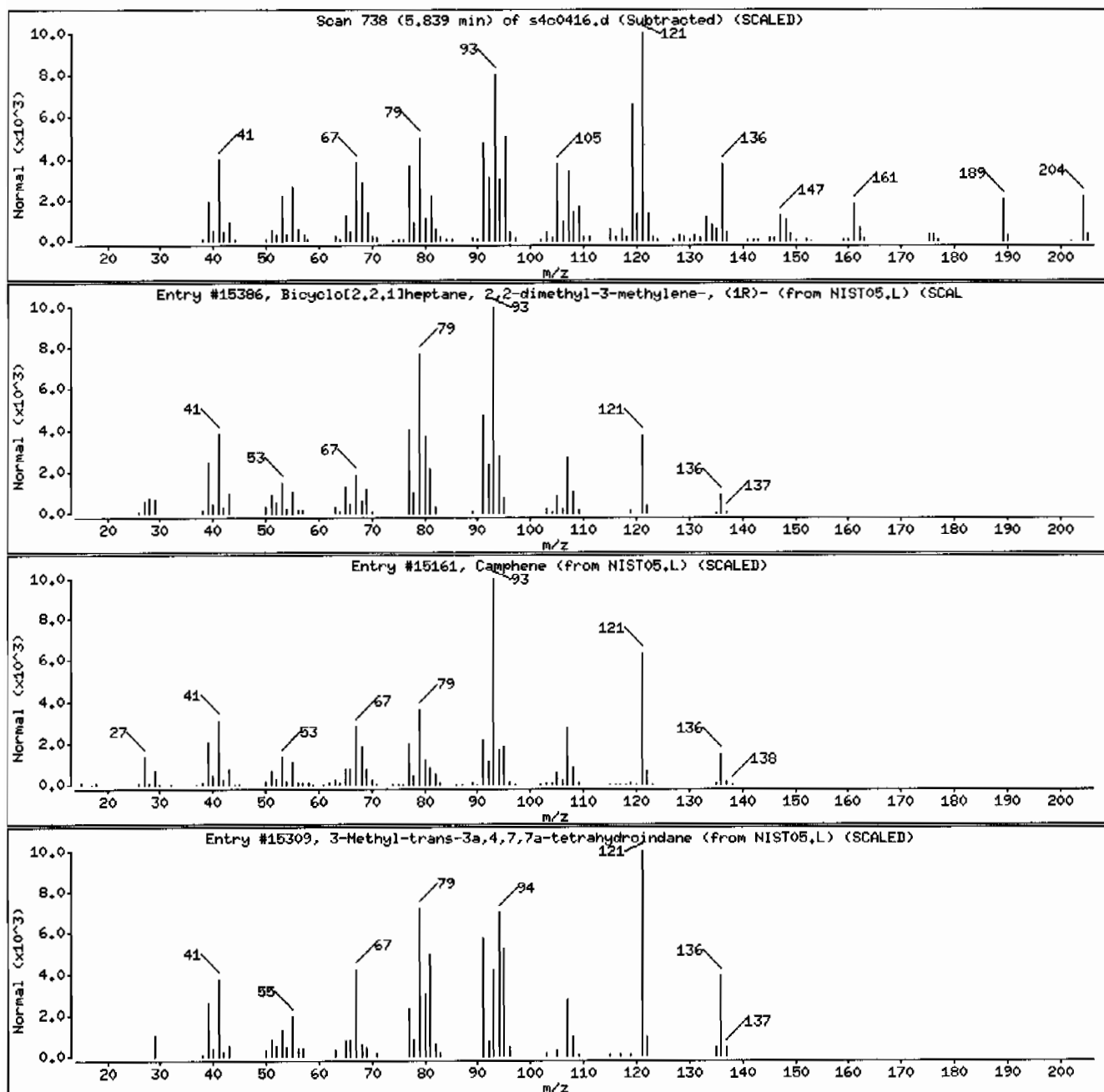
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-03-6	NIST05.L	15386	83	C10H16	136
Camphene	79-92-5	NIST05.L	15161	78	C10H16	136
3-Methyl-trans-3a,4,7,7a-tetrahydroindan	1000145-84-3	NIST05.L	15309	64	C10H16	136



Date: 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: MSD4.i

Sample Info: 12473320041956285111SVH111LANL

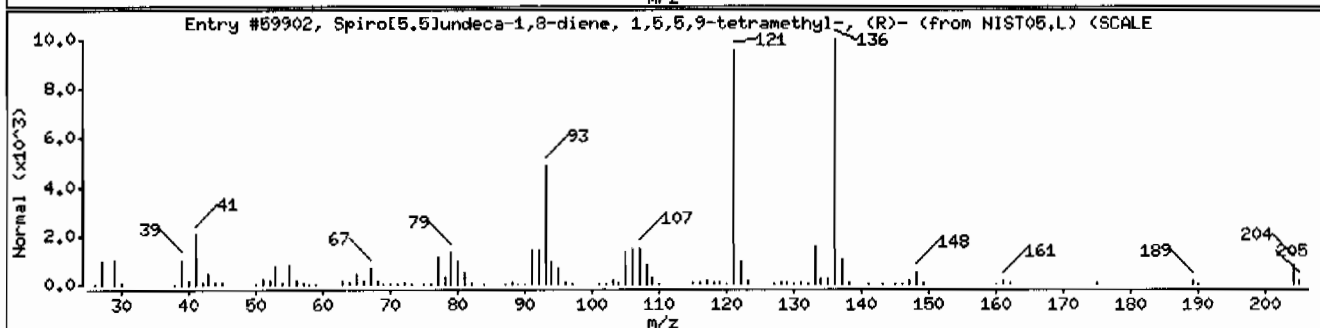
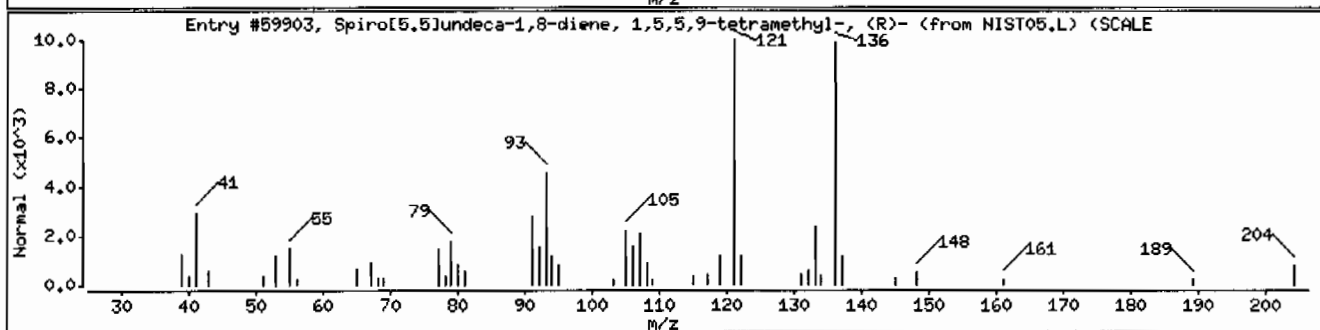
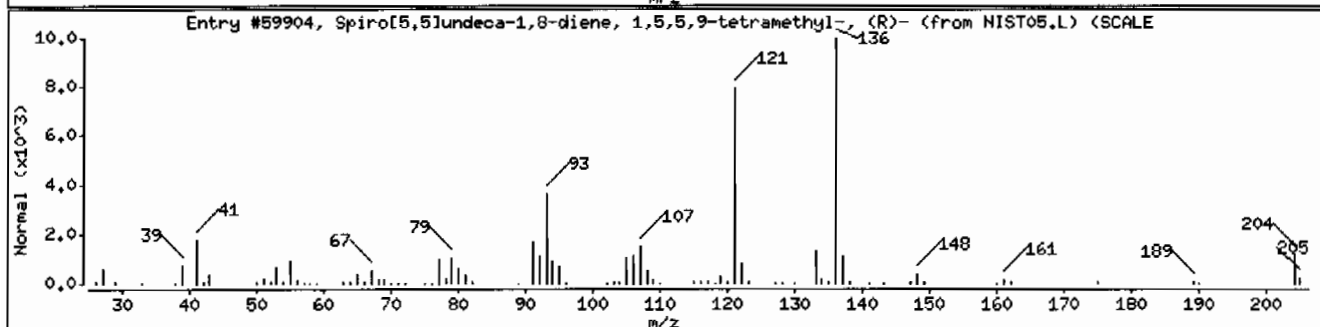
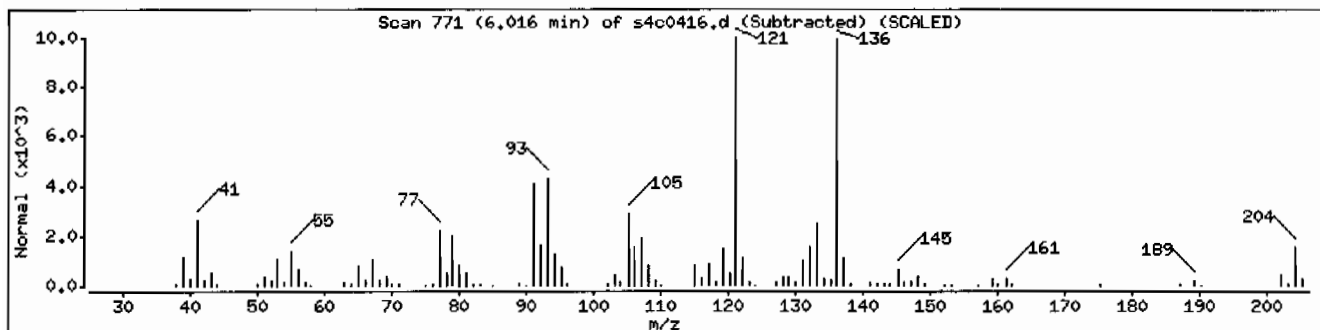
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59904	97	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59903	94	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59902	93	C15H24	204



Date : 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: MSD4.i

Sample Info: 1247332004195628511SVH111LANL

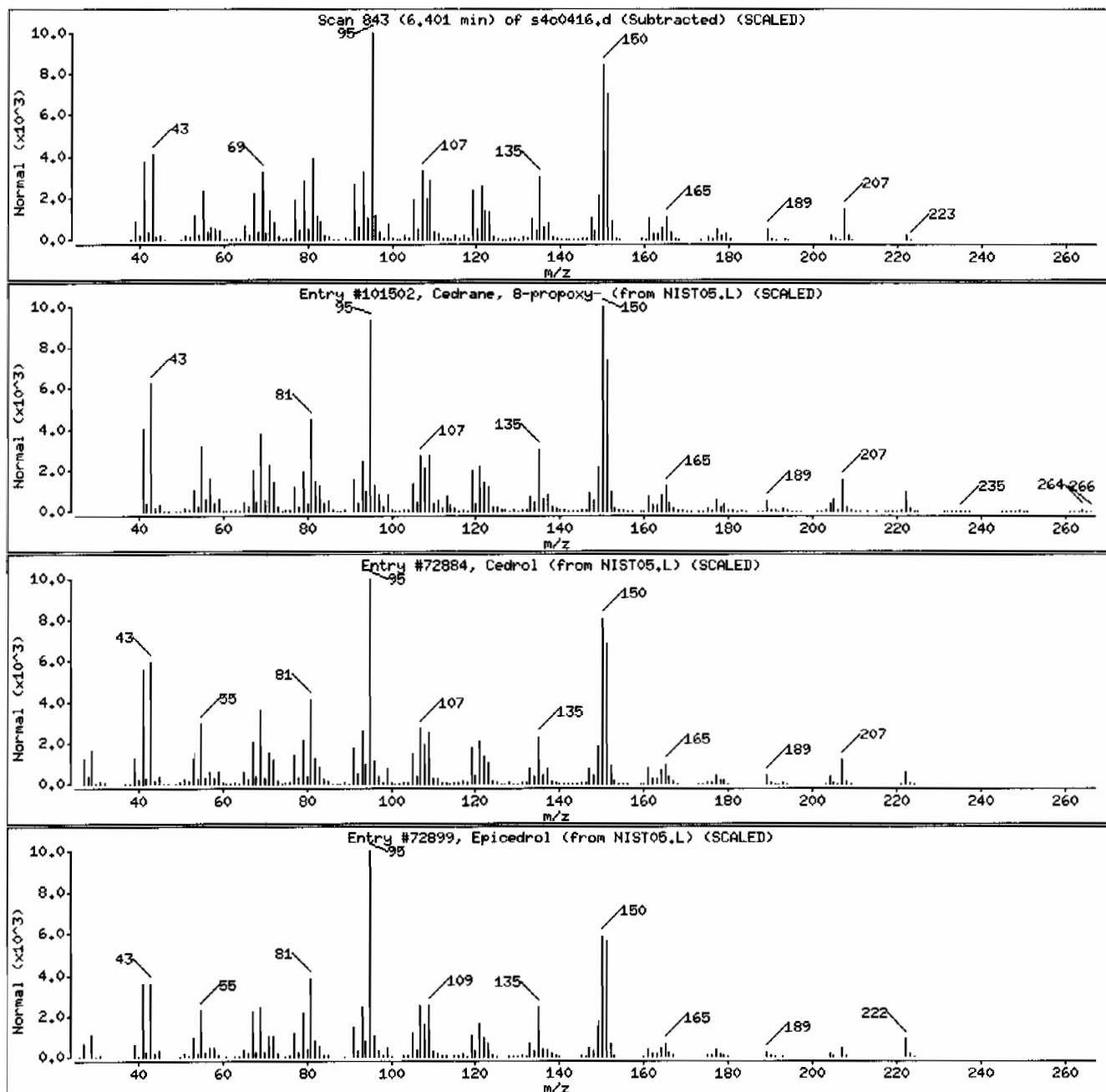
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	94	C18H32O	264
Cedrol	77-53-2	NIST05.L	72884	94	C15H26O	222
Epicedrol	1000156-22-8	NIST05.L	72899	91	C15H26O	222



Date: 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: MSD4.i

Sample Info: 12473320041956285111SVH111LANL

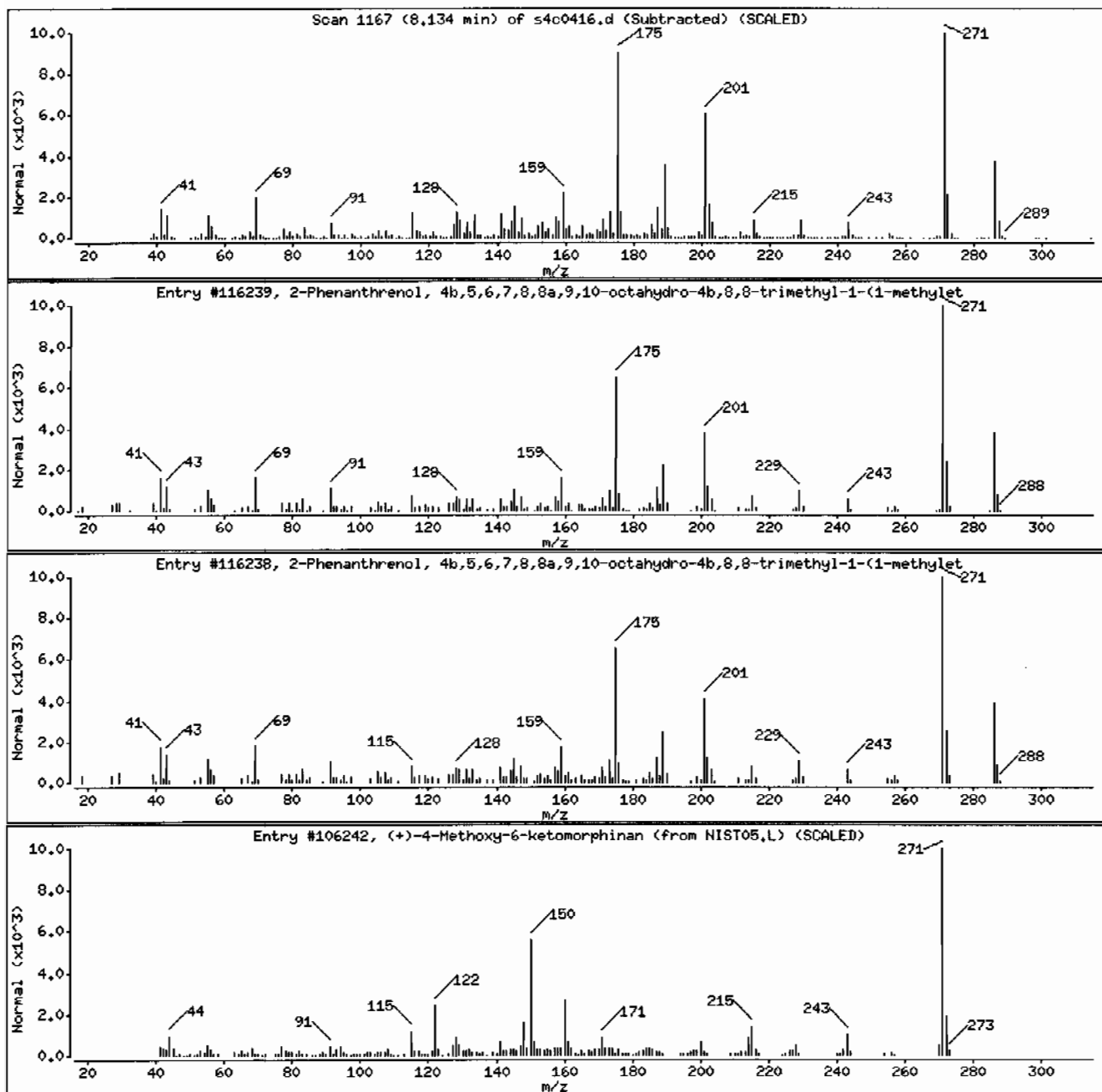
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	86	C20H30O	286
(+)-4-Methoxy-6-ketomorphinan	1000129-08-5	NIST05.L	106242	30	C17H21NO2	271



Date : 04-MAR-2010 18:12

Client ID: RE15-10-8344

Instrument: MSD4.i

Sample Info: 12473320041956285111SVH111LANL

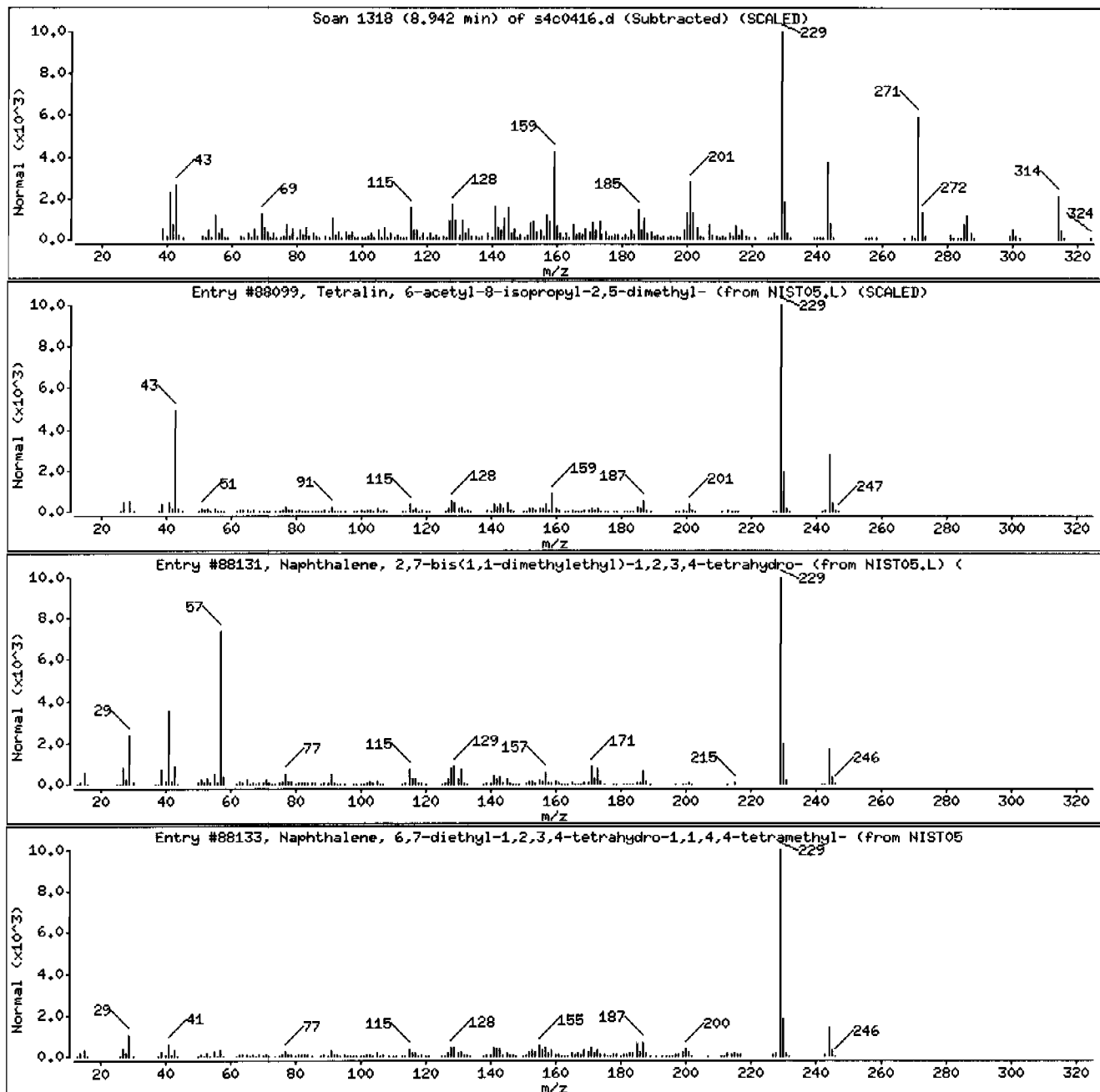
Volume Injected (UL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetralin, 6-acetyl-8-isopropyl-2,5-dimet	1000155-43-5	NIST05.L	88099	64	C17H24O	244
Naphthalene, 2,7-bis(1,1-dimethylethyl)-	43012-91-5	NIST05.L	88131	55	C18H28	244
Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	55741-10-1	NIST05.L	88133	51	C18H28	244



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.1	Dilution: 1
Run Date: 03/04/2010 18:35	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s4c0417.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	355	ug/kg	71.1	355
108-95-2	Phenol	U	355	ug/kg	71.1	355
95-57-8	2-Chlorophenol	U	355	ug/kg	71.1	355
106-46-7	1,4-Dichlorobenzene	U	355	ug/kg	71.1	355
621-64-7	N-Nitrosodipropylamine	U	355	ug/kg	71.1	355
59-50-7	4-Chloro-3-methylphenol	U	355	ug/kg	71.1	355
83-32-9	Acenaphthene	U	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	U	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	U	355	ug/kg	117	355
87-86-5	Pentachlorophenol	U	355	ug/kg	88.9	355
129-00-0	Pyrene		35.9	ug/kg	10.7	35.5
110-86-1	Pyridine	U	355	ug/kg	71.1	355
62-53-3	Aniline	U	355	ug/kg	107	355
111-44-4	bis(2-Chloroethyl) ether	U	355	ug/kg	71.1	355
541-73-1	1,3-Dichlorobenzene	U	355	ug/kg	71.1	355
100-51-6	Benzyl alcohol	U	355	ug/kg	107	355
95-50-1	1,2-Dichlorobenzene	U	355	ug/kg	71.1	355
108-60-1	bis(2-Chloroisopropyl)ether	U	355	ug/kg	71.1	355
95-48-7	o-Cresol	U	355	ug/kg	71.1	355
65794-96-9	m,p-Cresols	U	355	ug/kg	107	355
67-72-1	Hexachlorocethane	U	355	ug/kg	71.1	355
98-95-3	Nitrobenzene	U	355	ug/kg	71.1	355
78-59-1	Isophorone	U	355	ug/kg	71.1	355
88-75-5	2-Nitrophenol	U	355	ug/kg	71.1	355
105-67-9	2,4-Dimethylphenol	U	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	U	355	ug/kg	71.1	355
120-83-2	2,4-Dichlorophenol	U	355	ug/kg	71.1	355
65-85-0	Benzoic acid	U	711	ug/kg	178	711
91-20-3	Naphthalene	U	35.5	ug/kg	10.7	35.5
106-47-8	4-Chloroaniline	U	355	ug/kg	71.1	355
87-68-3	Hexachlorobutadiene	U	355	ug/kg	71.1	355
91-57-6	2-Methylnaphthalene	U	35.5	ug/kg	7.11	35.5
77-47-4	Hexachlorocyclopentadiene	U	355	ug/kg	71.1	355
88-06-2	2,4,6-Trichlorophenol	U	355	ug/kg	71.1	355
95-95-4	2,4,5-Trichlorophenol	U	355	ug/kg	71.1	355
91-58-7	2-Chloronaphthalene	U	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	U	355	ug/kg	71.1	355
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	355	ug/kg	71.1	355

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 18:35	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s4c0417.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	355	ug/kg	71.1	355
606-20-2	2,6-Dinitrotoluene	U	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	U	35.5	ug/kg	10.7	35.5
51-28-5	2,4-Dinitrophenol	U	711	ug/kg	135	711
132-64-9	Dibenzofuran	U	355	ug/kg	71.1	355
84-66-2	Diethylphthalate	U	355	ug/kg	71.1	355
86-73-7	Fluorene	U	35.5	ug/kg	10.7	35.5
7005-72-3	4-Chlorophenylphenylether	U	355	ug/kg	71.1	355
534-52-1	2-Methyl-4,6-dinitrophenol	U	355	ug/kg	71.1	355
100-01-6	4-Nitroaniline	U	355	ug/kg	107	355
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	355	ug/kg	71.1	355
122-66-7	Azobenzene	U	355	ug/kg	71.1	355
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	355	ug/kg	71.1	355
118-74-1	Hexachlorobenzene	U	355	ug/kg	71.1	355
85-01-8	Phenanthrene	J	34.6	ug/kg	10.7	35.5
120-12-7	Anthracene	U	35.5	ug/kg	7.11	35.5
84-74-2	Di-n-butylphthalate	U	355	ug/kg	71.1	355
206-44-0	Fluoranthene		50.8	ug/kg	10.7	35.5
85-68-7	Butylbenzylphthalate	U	355	ug/kg	71.1	355
56-55-3	Benzo(a)anthracene	J	29.2	ug/kg	10.7	35.5
91-94-1	3,3'-Dichlorobenzidine	U	355	ug/kg	107	355
218-01-9	Chrysene	J	20.2	ug/kg	10.7	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	355	ug/kg	71.1	355
117-84-0	Di-n-octylphthalate	U	355	ug/kg	71.1	355
205-99-2	Benzo(b)fluoranthene	J	28.6	ug/kg	10.7	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.7	35.5
50-32-8	Benzo(a)pyrene	J	14.9	ug/kg	10.7	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.7	35.5
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.7	35.5
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.7	35.5
120-82-1	1,2,4-Trichlorobenzene	U	355	ug/kg	71.1	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.88	2630	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.4	1080	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number:	10-1905	Date Collected:	02/12/2010 12:00	Matrix:	R
Lab Sample ID:	247332005	Date Received:	02/18/2010 08:45	%Moisture:	6.3
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8345	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	956285	Inst:	MSD4.I	Dilution:	1
Run Date:	03/04/2010 18:35	Analyst:	JMB3	Inj. Vol:	.5 uL
Prep Date:	02/23/2010 10:34	Aliquot:	30.01 g	Final Volume:	1 mL
Data File:	s4c0417.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	587	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	1200	ug/kg	96	NJ

Data File: /chem/MSD4.i/s030410a.b/s4c0417.d
Report Date: 05-Mar-2010 08:12

Page 1

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Data file : /chem/MSD4.i/s030410a.b/s4c0417.d
Lab Smp Id: 247332005 Client Smp ID: RE15-10-8345
Inj Date : 04-MAR-2010 18:35
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332005|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.01000	weight of sample
M	6.25840	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829	(1.000)	160502		40.0000	
* 29 Naphthalene-d8	136	4.684	4.690	(1.000)	592070		40.0000	
* 46 Acenaphthene-d10	164	5.936	5.941	(1.000)	347291		40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936	(1.000)	587737		40.0000	
* 91 Chrysene-d12	240	8.605	8.610	(1.000)	453470		40.0000	
* 98 Perylene-d12	264	10.054	10.070	(1.000)	326285		40.0000	
\$ 3 2-Fluorophenol	112	3.031	3.021	(0.793)	231614		62.0366	2200
\$ 5 Phenol-d5	99	3.540	3.545	(0.926)	330557		70.9502	2520
\$ 20 Nitrobenzene-d5	82	4.187	4.192	(0.894)	136061		32.2347	1140
\$ 39 2-Fluorobiphenyl	172	5.428	5.433	(0.914)	313384		33.6019	1190
\$ 60 2,4,6-Tribromophenol	329	6.476	6.481	(1.091)	32770		32.1021	1140 (R)
\$ 81 p-Terphenyl-d14	244	7.856	7.861	(0.913)	344663		47.6456	1690

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.802	7.813	(0.907)	12264	1.00928	35.9
68 Phenanthrene	178	6.947	6.952	(1.002)	12702	0.97340	34.6(a)
76 Fluoranthene	202	7.663	7.669	(1.105)	16682	1.42999	50.8
89 Benzo(a)anthracene	228	8.594	8.600	(0.999)	8545	0.82060	29.2(a)
92 Chrysene	228	8.621	8.632	(1.002)	5602	0.56734	20.2(a)
95 Benzo(b)fluoranthene	252	9.589	9.600	(0.954)	6668	0.80355	28.6(a)
97 Benzo(a)pyrene	252	9.979	10.001	(0.993)	2757	0.41807	14.9(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

ION RATIO REPORT

SV REPORT

Data file: s4c0417.d

Report Date: 03/05/2010 07:56

Lab. ID: 247332005

SampleType: SAMPLE

Injection Date: 04-MAR-2010 18:35

Operator: JMB3

Instrument: MSD4.i

Sample Info: |247332005|956285|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	17174	3.54	3.61	80-120	100	(T)
93	897	3.50	3.61	453-513	5	(QT)

6 Phenol		CAS#: 108-95-2				
94	16613	3.40	3.56	80-120	100	(T)
66	3335	3.40	3.56	13- 73	20	(T)
65	11819	3.40	3.56	1- 61	71	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	18741	4.19	4.07	80-120	100	(T)
42	9232	4.18	4.07	27- 87	49	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	401	4.50	4.48	80-120	100	()
122	309	4.35	4.48	56-116	77	(T)
77	1603	4.50	4.48	49-109	399	(Q)

40 2-Chloronaphthalene		CAS#: 91-58-7				
162	6194	5.67	5.54	80-120	100	(T)
164	357	5.67	5.54	3- 63	6	(T)
127	527	5.67	5.54	8- 68	9	(T)

42 o-Nitroaniline		CAS#: 88-74-4				
65	7643	5.67	5.60	80-120	100	(T)
92	9944	5.67	5.60	35- 95	130	(QT)
138	660	5.67	5.60	79-139	9	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
43 Dimethylphthalate				CAS#: 131-11-3		
163	60736	5.94	5.71	80-120	100	(T)
164	347291	5.94	5.71	0- 40	572	(QT)

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	45877	5.94	5.77	80-120	100	(T)
63	502	5.94	5.77	53-113	1	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	45877	5.94	6.05	80-120	100	(T)
89	584	5.94	6.05	53-113	1	(QT)
63	502	5.94	6.05	24- 84	1	(QT)

52 4-Nitrophenol				CAS#: 100-02-7		
139	168	6.07	5.99	80-120	100	(T)
109	285	6.06	5.99	37- 97	169	(QT)
65	579	6.02	5.99	67-127	344	(Q)

68 Phenanthrene				CAS#: 85-01-8		
178	12702	6.95	6.95	80-120	100	()
179	2572	6.95	6.95	0- 46	20	()
176	2496	6.95	6.95	0- 49	20	()

69 Anthracene				CAS#: 120-12-7		
178	12702	6.95	6.98	80-120	100	()
179	2572	6.95	6.98	0- 46	20	()
176	2496	6.95	6.98	0- 49	20	()

76 Fluoranthene				CAS#: 206-44-0		
202	16682	7.66	7.67	80-120	100	()
203	3028	7.66	7.67	0- 48	18	()
101	2080	7.66	7.67	0- 42	12	()

79 Pyrene				CAS#: 129-00-0		
202	12264	7.80	7.81	80-120	100	()
200	2574	7.80	7.81	0- 51	21	()
101	2120	7.80	7.81	0- 44	17	()

89 Benzo(a)anthracene				CAS#: 56-55-3		
228	8545	8.59	8.60	80-120	100	()
226	2449	8.59	8.60	0- 56	29	()
229	2153	8.59	8.60	0- 50	25	()

92 Chrysene				CAS#: 218-01-9		
228	5602	8.62	8.63	80-120	100	()
229	1330	8.62	8.63	0- 50	24	()
226	1693	8.62	8.63	0- 59	30	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
94 Di-n-octylphthalate				CAS#: 117-84-0		
149	139	9.04	9.02	80-120	100	()
43	3563	8.96	9.02	0- 40	2552	(QT)

95 Benzo(b)fluoranthene				CAS#: 205-99-2		
252	6668	9.59	9.60	80-120	100	()
253	1637	9.59	9.60	0- 52	25	()
125	1460	9.59	9.60	0- 42	22	()

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	6668	9.59	9.63	80-120	100	()
253	1637	9.59	9.63	0- 52	25	()
125	1460	9.59	9.63	0- 41	22	()

97 Benzo(a)pyrene				CAS#: 50-32-8		
252	2757	9.98	10.00	80-120	100	()
253	707	9.98	10.00	0- 52	26	()
125	568	9.98	10.00	0- 43	21	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD4.i/s030410a.b/s4c0417.d
Lab Smp Id: 247332005 Client Smp ID: RE15-10-8345
Inj Date : 04-MAR-2010 18:35
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332005|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.01000	weight of sample
M	6.25840	% moisture

Cpnd Variable Local Compound Variable

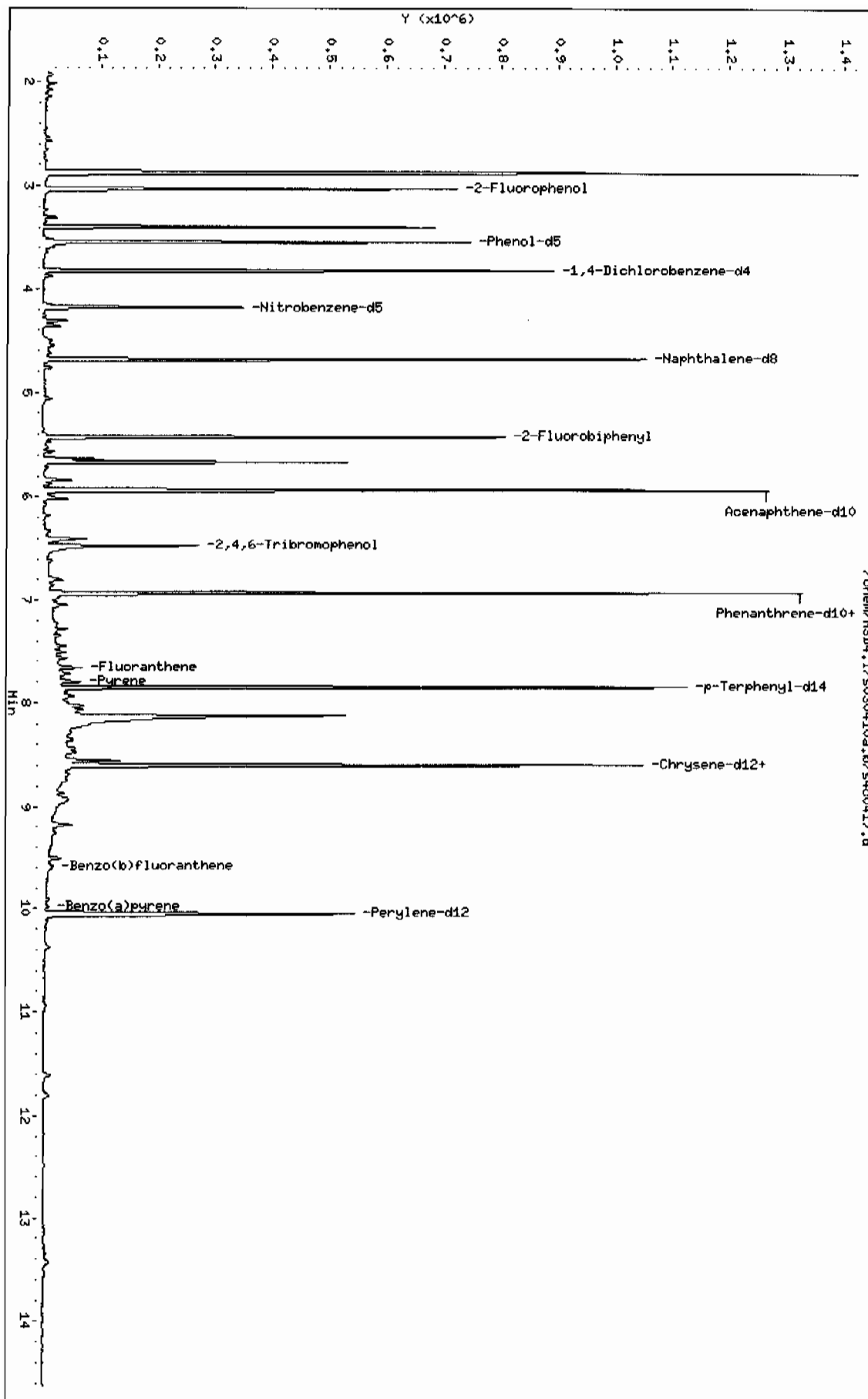
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.823	949475	40.000
* 46 Acenaphthene-d10	5.936	1471716	40.000
* 91 Chrysene-d12	8.605	1289769	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.876	1756069	73.9805667	2630	0		0	10
1R-.alpha.-Pinene					CAS #: 7785-70-8		
3.401	718948	30.2881921	1080	96	NIST05.L	15188	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.668	607867	16.5212971	587	99	NIST05.L	60020	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.129	1090750	33.8277497	1200	96	NIST05.L	116238	91

Data File: /chem/HSD4.i/s030410a,b/s400417.d
 Date: 04-MAR-2010 18:35
 Client ID: RE15-10-8345
 Sample Info: 12473320051956285115NM11LNL
 Volume Injected (uL): 0.5
 Column phase: J&M DB-SHS

Instrument: HSD4.i
 Operator: JMB3
 Column diameter: 0.20



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: HSD4.i

Sample Info: 1247332005195628511SVH111LANL

Volume Injected (uL): 0.5

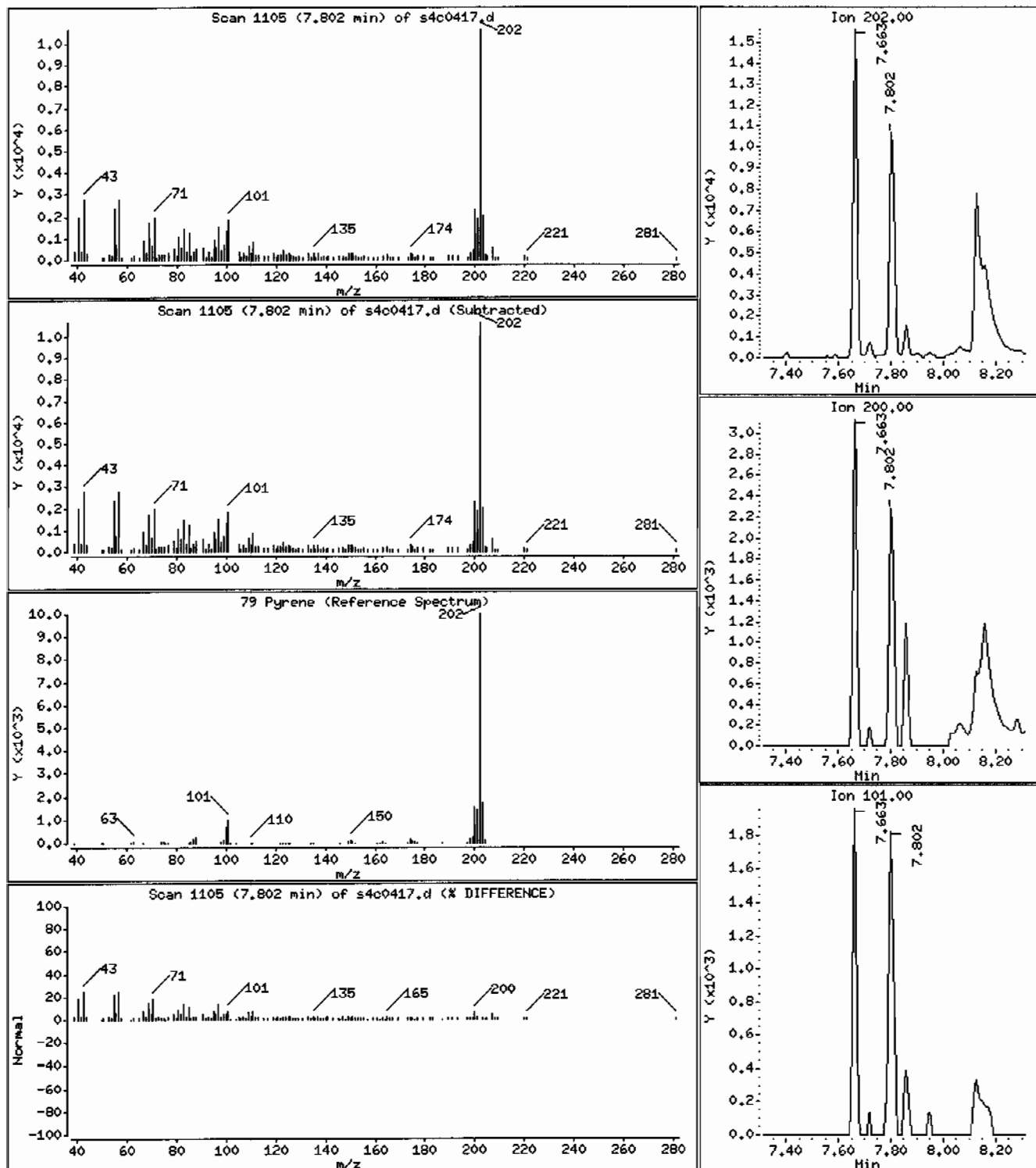
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 35.9 ug/Kg



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 1247332005195628511ISVH11ILANL

Volume Injected (uL): 0.5

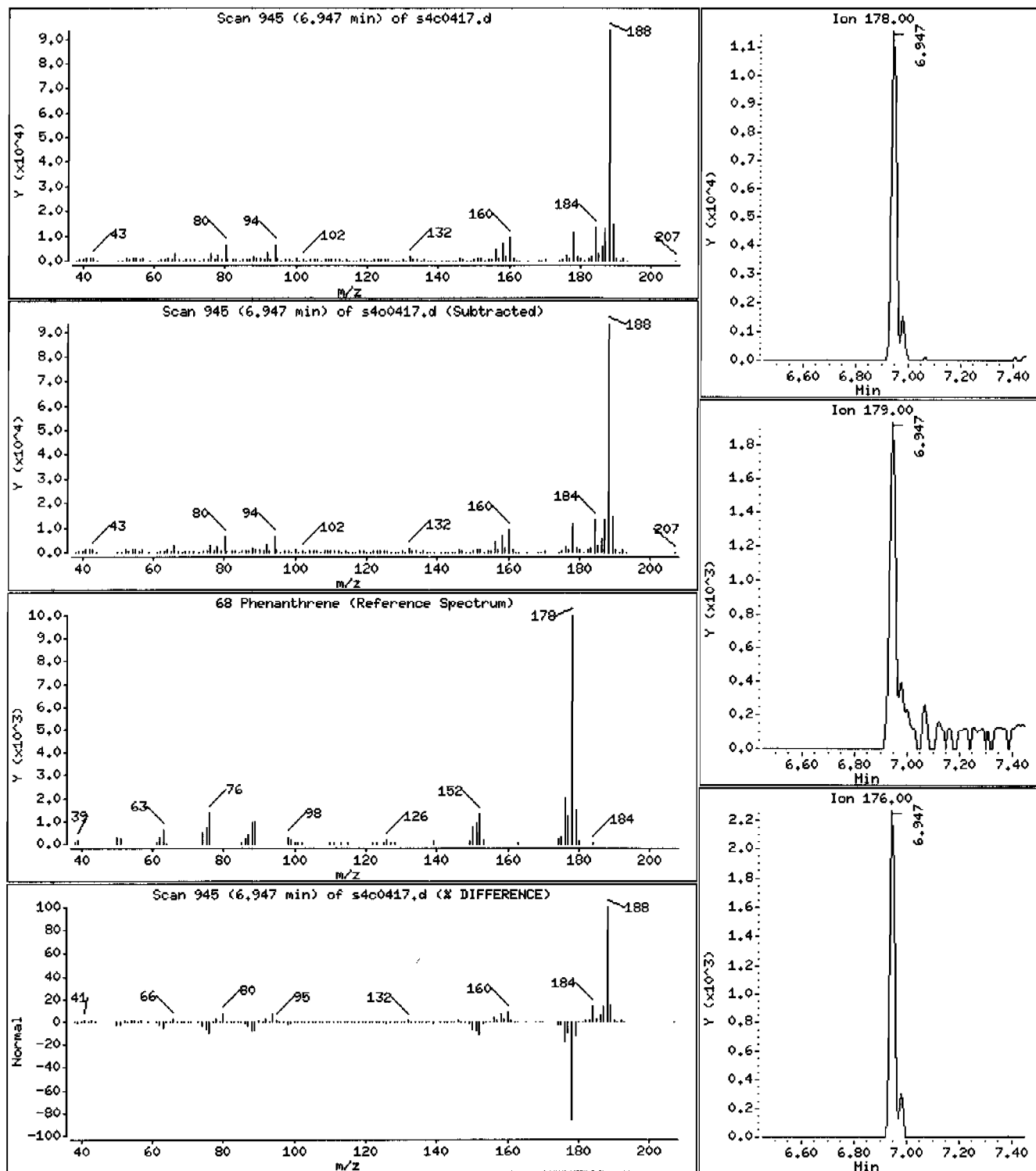
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 34,6 ug/Kg



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 1247332005195628511SVMI11LANL

Volume Injected (uL): 0.5

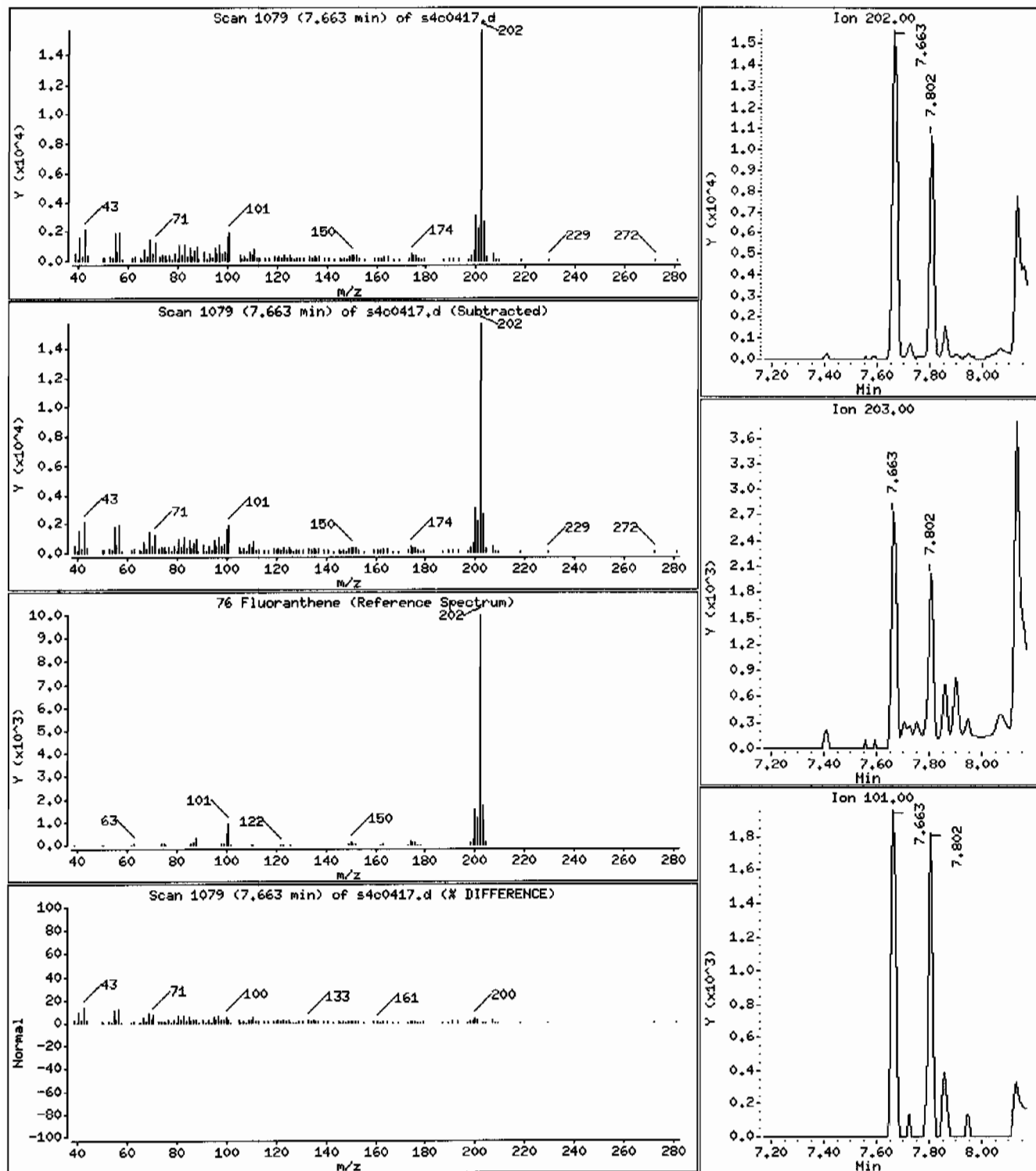
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 50.8 ug/Kg



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 1247332005195628511SVH111LANL

Volume Injected (uL): 0.5

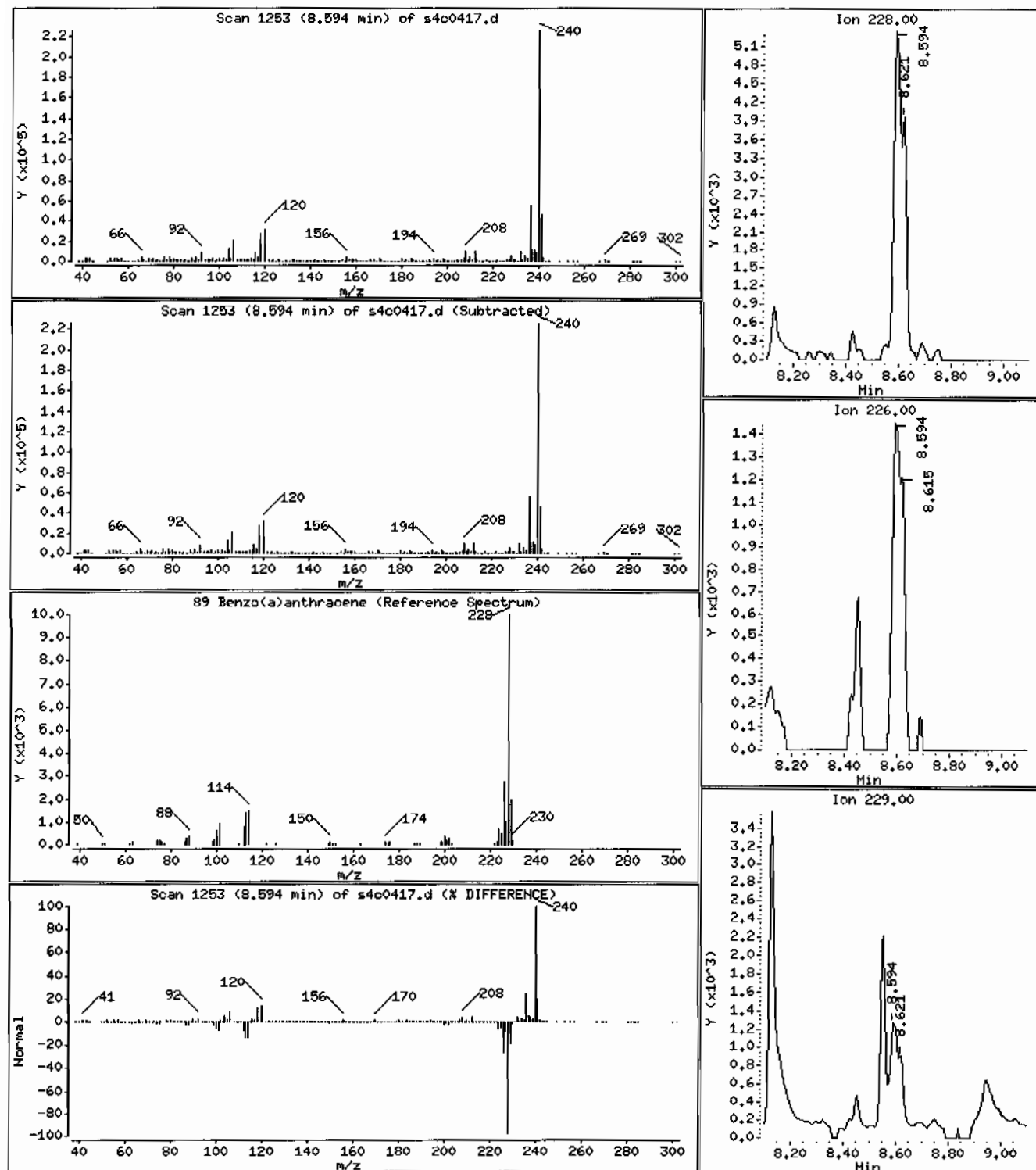
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 29.2 ug/Kg



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 12473320051956285111SVH111LANL

Volume Injected (uL): 0.5

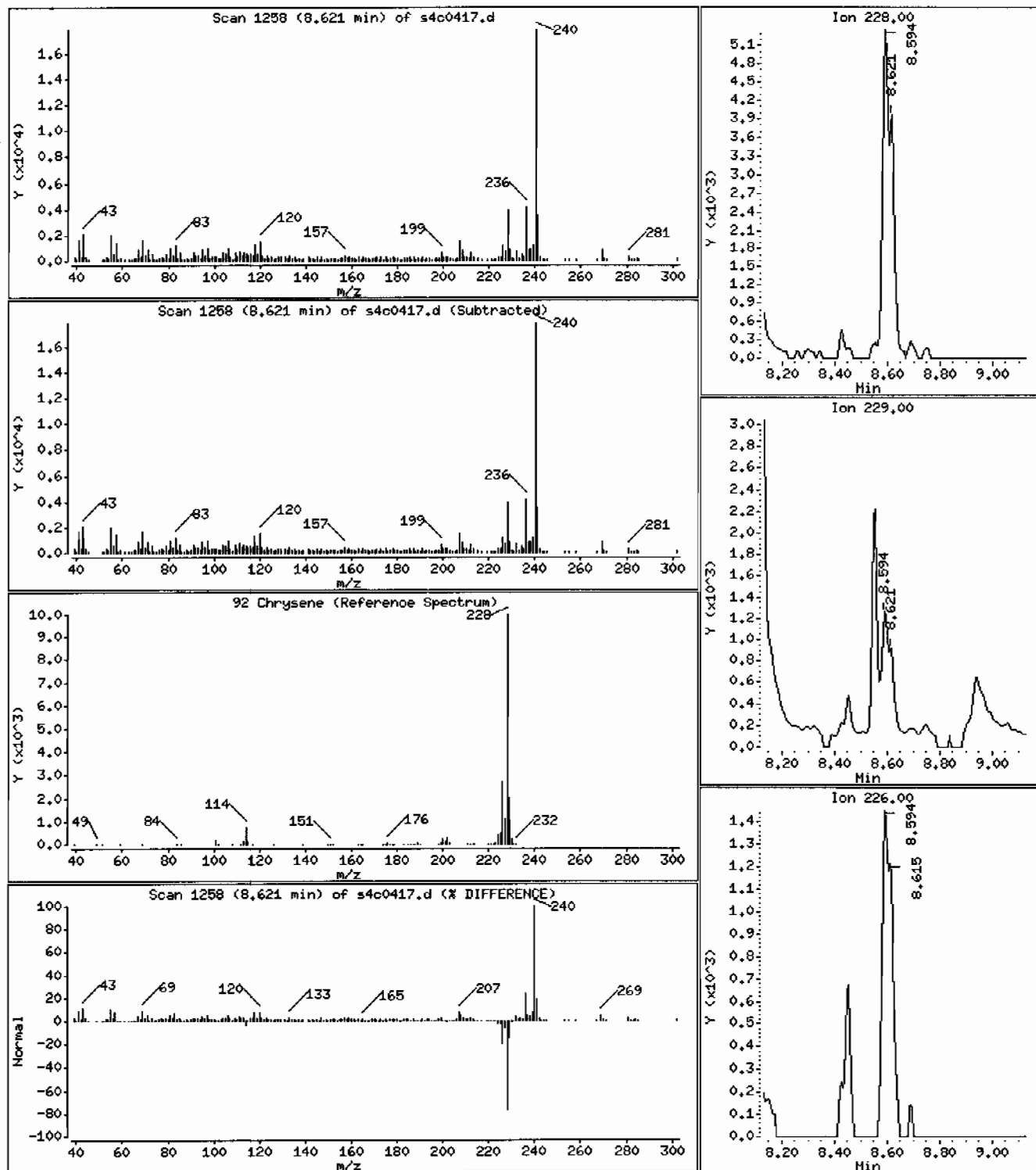
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 20.2 ug/Kg



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 1247332005195628511SVMI1ILANL

Volume Injected (uL): 0.5

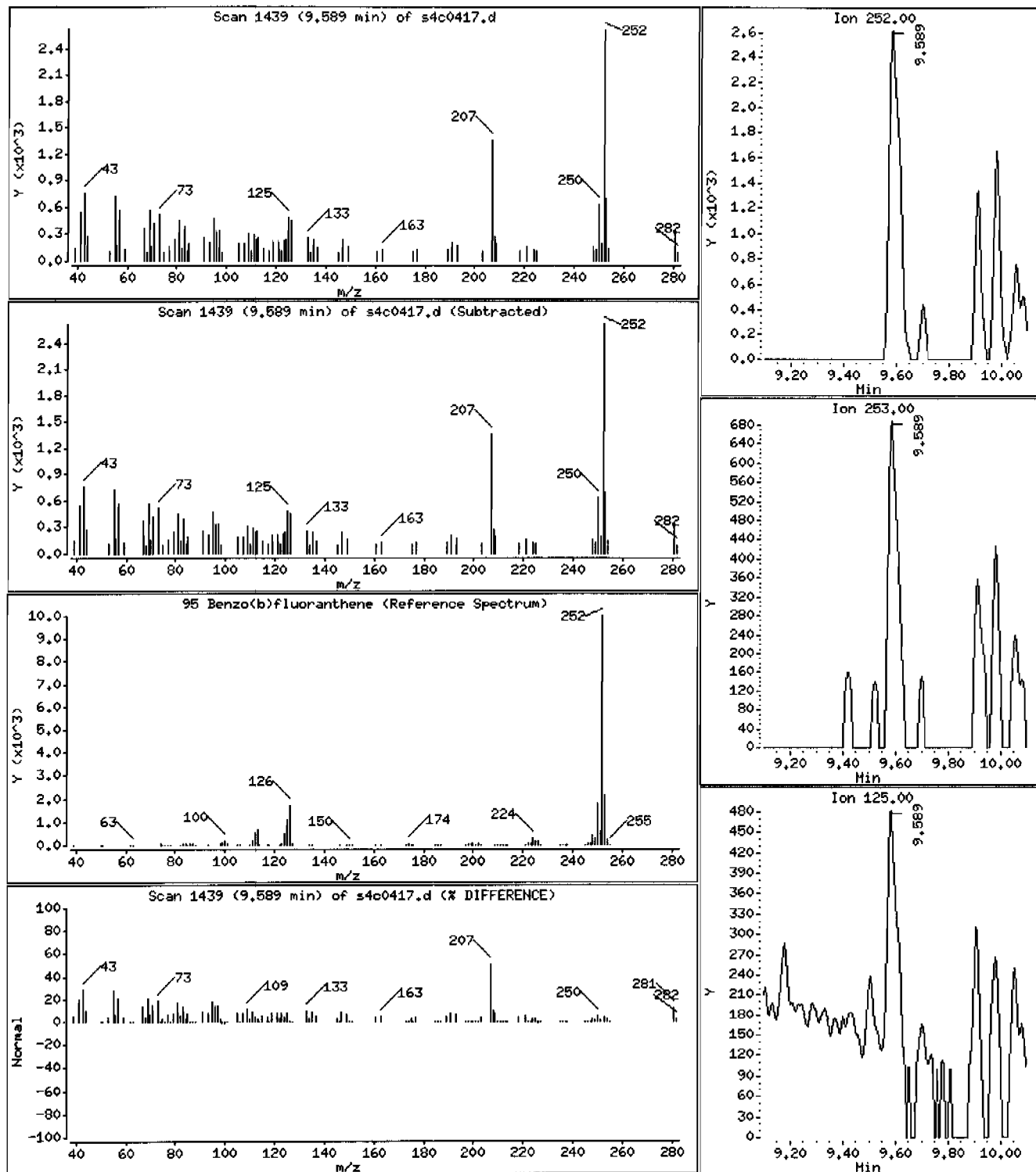
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 28.6 ug/Kg



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 1247332005195628511SVH11ILANL

Volume Injected (uL): 0.5

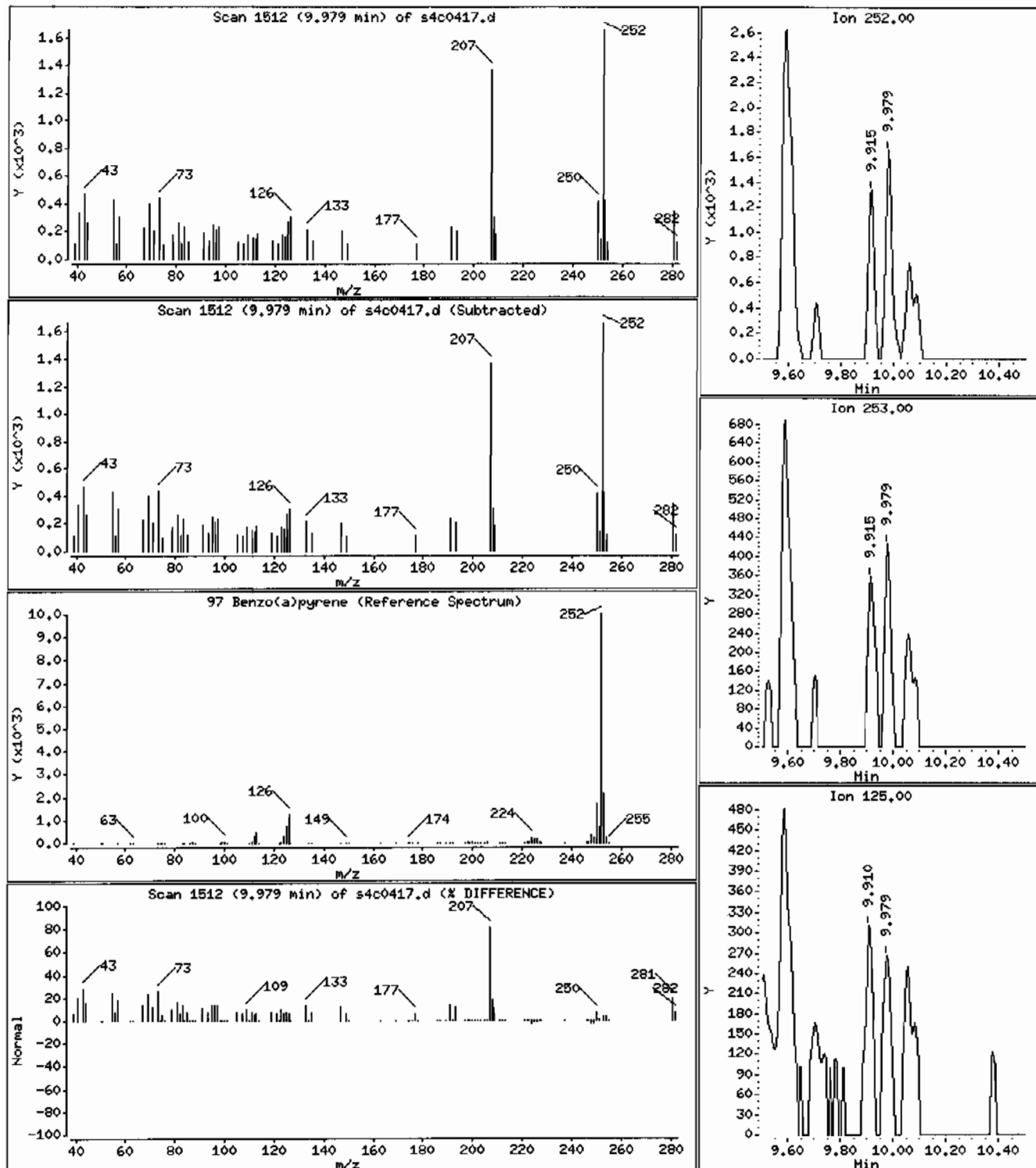
Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 14.9 ug/Kg



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 1247332005195628511SVH11ILANL

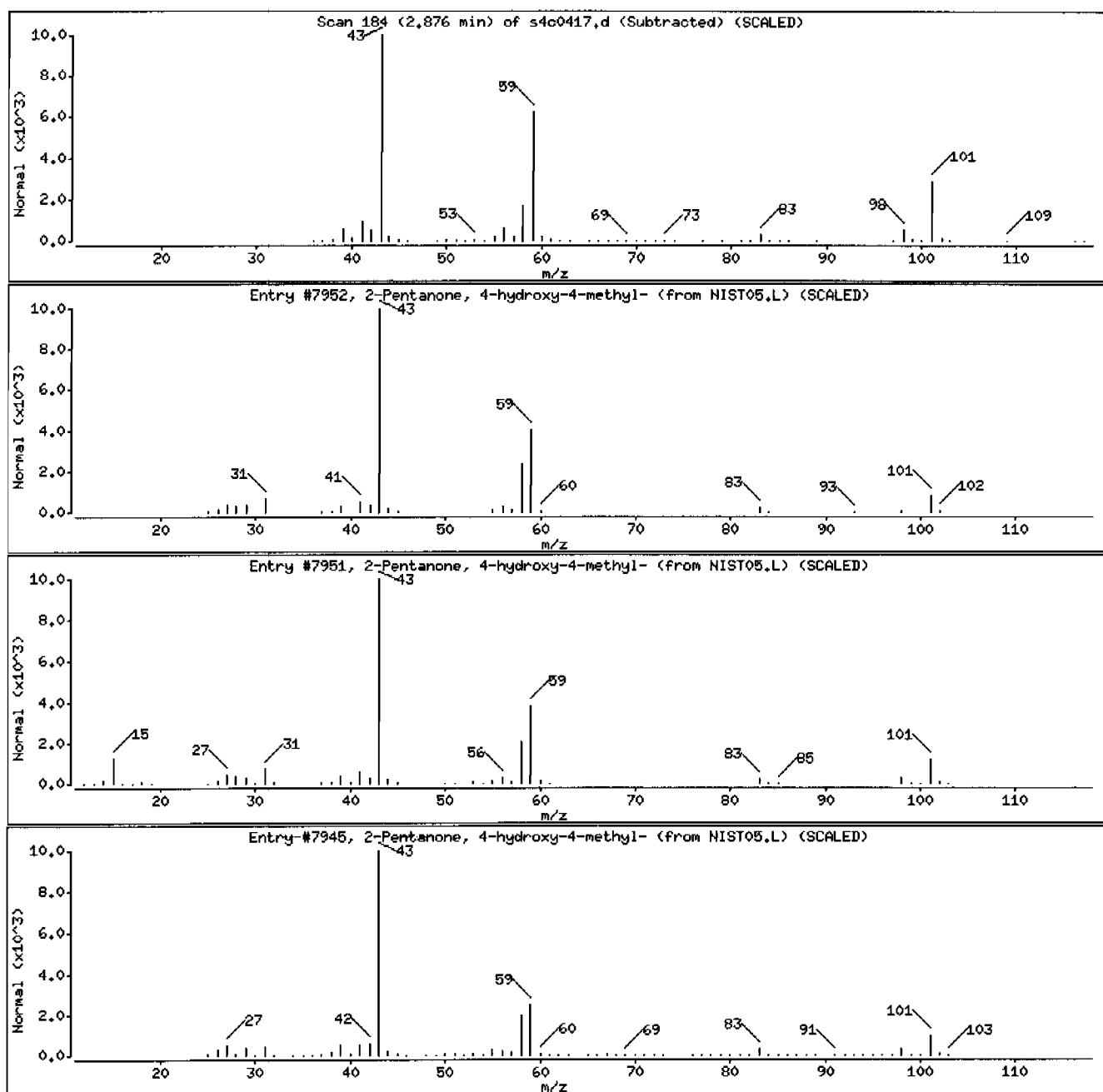
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	38	C6H12O2	116



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: HSD4.i

Sample Info: I247332005195628511SVMI1ILANL

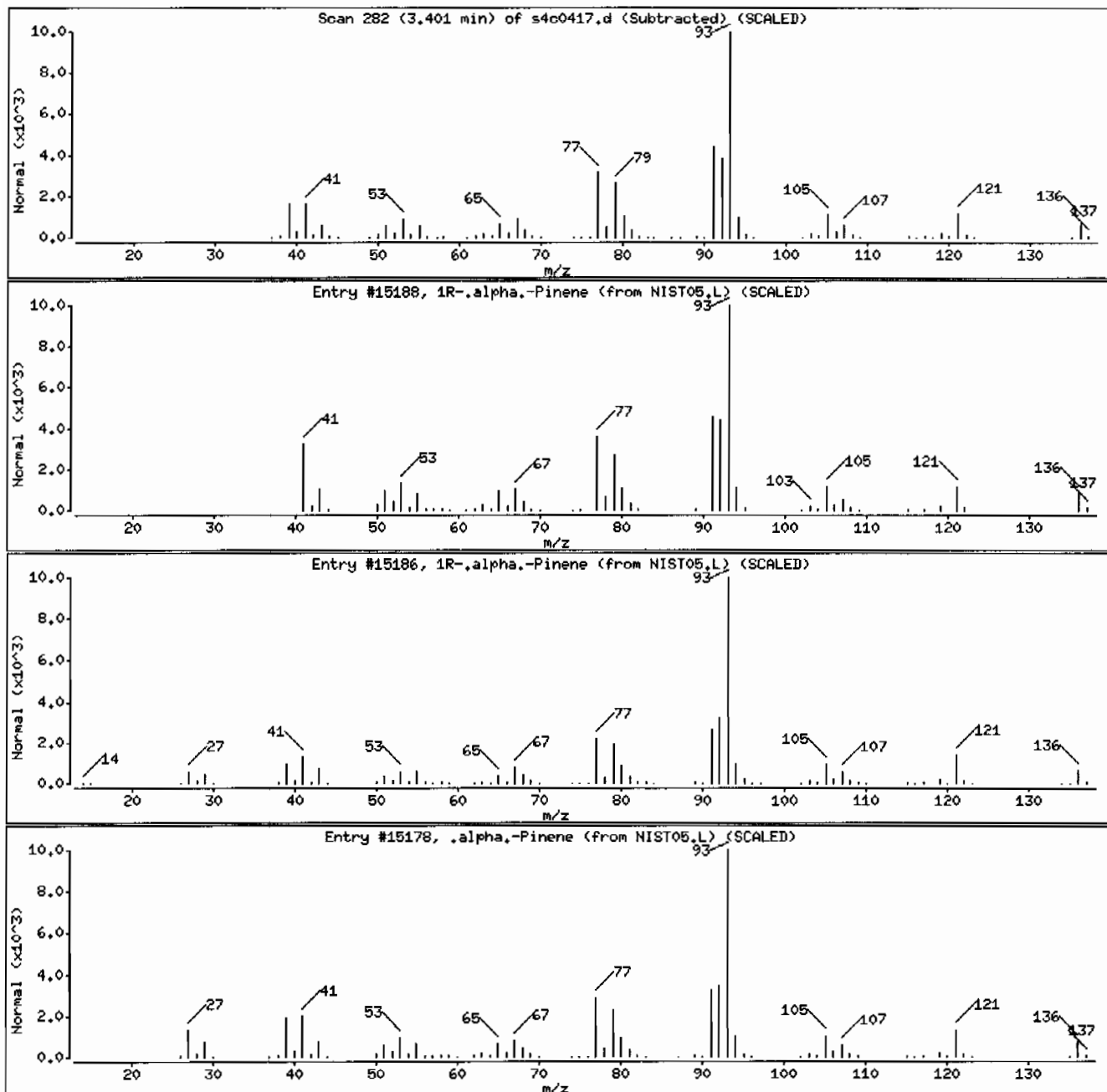
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15188	96	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	96	C10H16	136
.alpha.-Pinene	80-56-8	NIST05.L	15178	96	C10H16	136



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.1

Sample Info: 1247332005195628511SVH111LANL

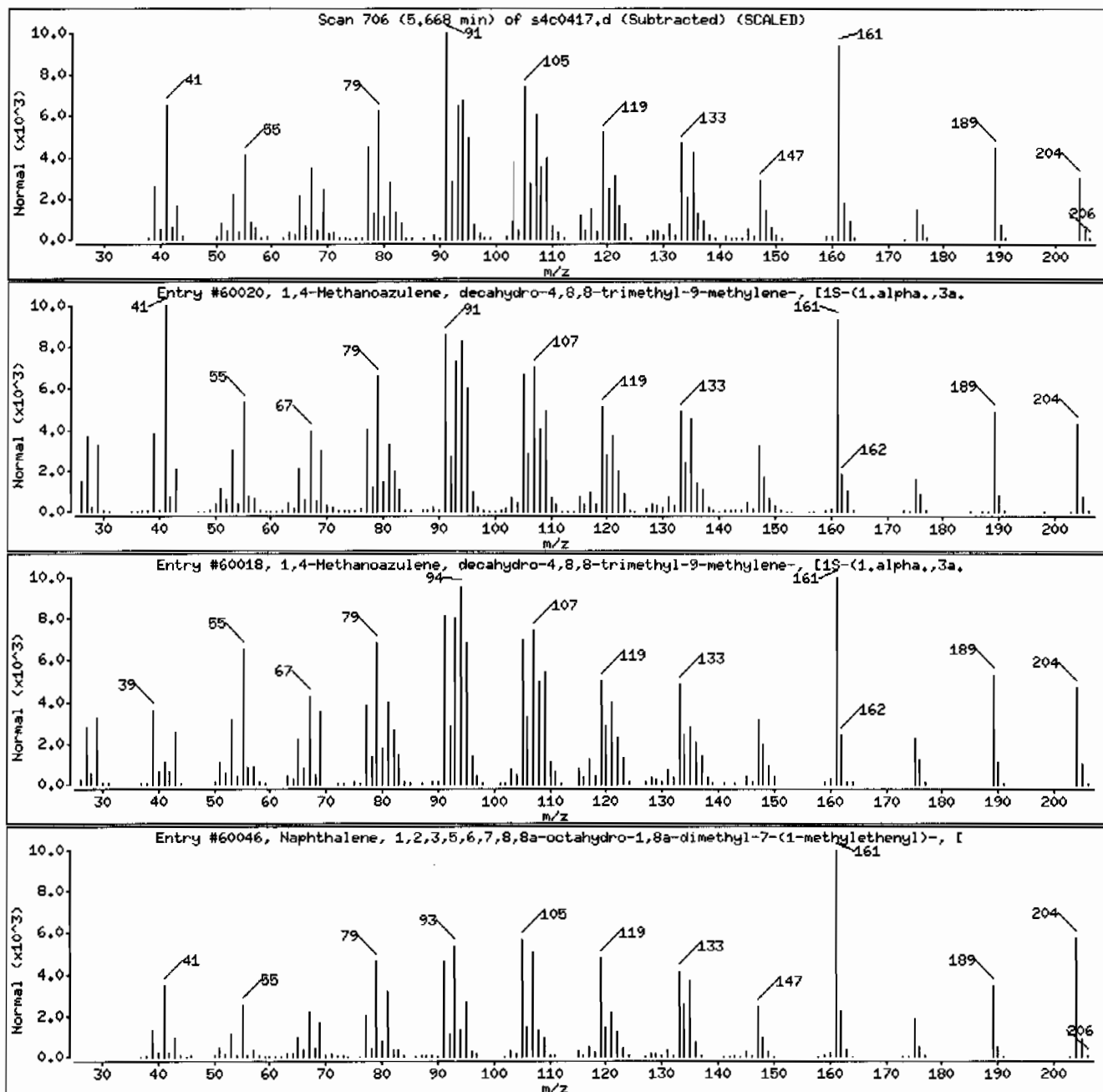
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60020	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	97	C15H24	204



Date : 04-MAR-2010 18:35

Client ID: RE15-10-8345

Instrument: MSD4.i

Sample Info: 12473320051956285111SVH111LANL

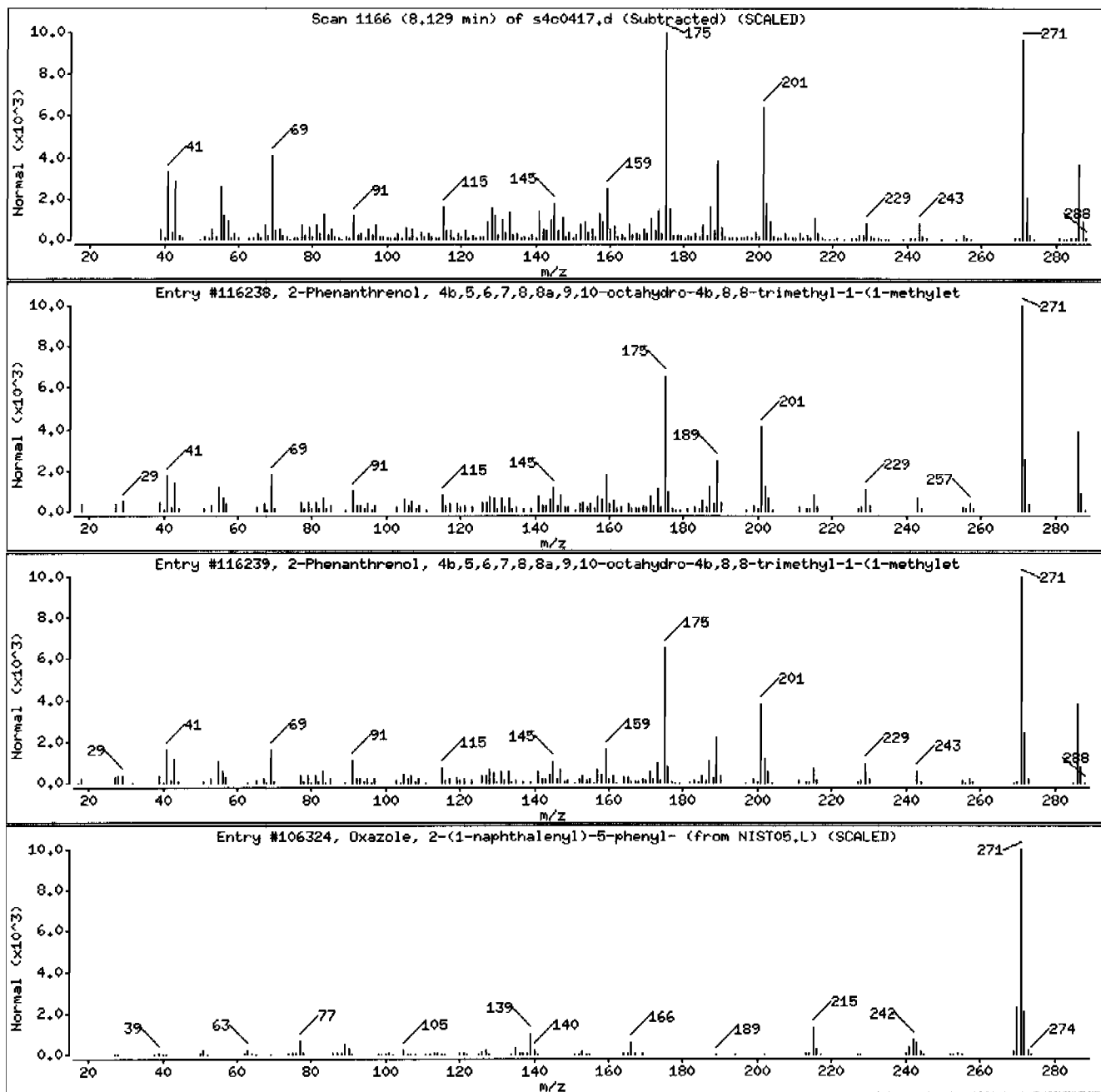
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	116238	96	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	96	C20H30O	286
Oxazole, 2-(1-naphthalenyl)-5-phenyl-	846-63-9	NIST05.L	106324	35	C19H13NO	271



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANI.010	Project: LANL01004
Client ID: RE15-10-8345RE	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 961919	Inst: MSD7.I	Dilution: 1
Run Date: 03/08/2010 13:54	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 03/07/2010 12:11	Aliquot: 30.06 g	Final Volume: 1 mL
Data File: s7c0813.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	Uh	355	ug/kg	71.0	355
108-95-2	Phenol	Uh	355	ug/kg	71.0	355
95-57-8	2-Chlorophenol	Uh	355	ug/kg	71.0	355
106-46-7	1,4-Dichlorobenzene	Uh	355	ug/kg	71.0	355
621-64-7	N-Nitrosodipropylamine	Uh	355	ug/kg	71.0	355
59-50-7	4-Chloro-3-methylphenol	Uh	355	ug/kg	71.0	355
83-32-9	Acenaphthene	Uh	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	Uh	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	Uh	355	ug/kg	117	355
87-86-5	Pentachlorophenol	Uh	355	ug/kg	88.7	355
129-00-0	Pyrene	Jh	28.8	ug/kg	10.6	35.5
110-86-1	Pyridine	Uh	355	ug/kg	71.0	355
62-53-3	Aniline	Uh	355	ug/kg	106	355
111-44-4	bis(2-Chloroethyl) ether	Uh	355	ug/kg	71.0	355
541-73-1	1,3-Dichlorobenzene	Uh	355	ug/kg	71.0	355
100-51-6	Benzyl alcohol	Uh	355	ug/kg	106	355
95-50-1	1,2-Dichlorobenzene	Uh	355	ug/kg	71.0	355
108-60-1	bis(2-Chloroisopropyl)ether	Uh	355	ug/kg	71.0	355
95-48-7	o-Cresol	Uh	355	ug/kg	71.0	355
65794-96-9	m,p-Cresols	Uh	355	ug/kg	106	355
67-72-1	Hexachloroethane	Uh	355	ug/kg	71.0	355
98-95-3	Nitrobenzene	Uh	355	ug/kg	71.0	355
78-59-1	Isophorone	Uh	355	ug/kg	71.0	355
88-75-5	2-Nitrophenol	Uh	355	ug/kg	71.0	355
105-67-9	2,4-Dimethylphenol	Uh	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	Uh	355	ug/kg	71.0	355
120-83-2	2,4-Dichlorophenol	Uh	355	ug/kg	71.0	355
65-85-0	Benzoic acid	Uh	710	ug/kg	177	710
91-20-3	Naphthalene	Jh	11.2	ug/kg	10.6	35.5
106-47-8	4-Chloroaniline	Uh	355	ug/kg	71.0	355
87-68-3	Hexachlorobutadiene	Uh	355	ug/kg	71.0	355
91-57-6	2-Methylnaphthalene	Uh	35.5	ug/kg	7.10	35.5
77-47-4	Hexachlorocyclopentadiene	Uh	355	ug/kg	71.0	355
88-06-2	2,4,6-Trichlorophenol	Uh	355	ug/kg	71.0	355
95-95-4	2,4,5-Trichlorophenol	Uh	355	ug/kg	71.0	355
91-58-7	2-Chloronaphthalene	Uh	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	Uh	355	ug/kg	71.0	355
	o-Nitroaniline					
99-09-2	3-Nitroaniline	Uh	355	ug/kg	71.0	355

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332005

Client ID: RE15-10-8345RE
Batch ID: 961919
Run Date: 03/08/2010 13:54
Prep Date: 03/07/2010 12:11
Data File: s7c0813.d

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.06 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	Uh	355	ug/kg	71.0	355
606-20-2	2,6-Dinitrotoluene	Uh	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	Uh	35.5	ug/kg	10.6	35.5
51-28-5	2,4-Dinitrophenol	Uh	710	ug/kg	135	710
132-64-9	Dibenzofuran	Uh	355	ug/kg	71.0	355
84-66-2	Diethylphthalate	Uh	355	ug/kg	71.0	355
86-73-7	Fluorene	Uh	35.5	ug/kg	10.6	35.5
7005-72-3	4-Chlorophenylphenylether	Uh	355	ug/kg	71.0	355
534-52-1	2-Methyl-4,6-dinitrophenol	Uh	355	ug/kg	71.0	355
100-01-6	4-Nitroaniline	Uh	355	ug/kg	106	355
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	Uh	355	ug/kg	71.0	355
122-66-7	Azobenzene	Uh	355	ug/kg	71.0	355
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	Uh	355	ug/kg	71.0	355
118-74-1	Hexachlorobenzene	Uh	355	ug/kg	71.0	355
85-01-8	Phenanthrene	Jh	34.1	ug/kg	10.6	35.5
120-12-7	Anthracene	Uh	35.5	ug/kg	7.10	35.5
84-74-2	Di-n-butylphthalate	Uh	355	ug/kg	71.0	355
206-44-0	Fluoranthene	h	48.3	ug/kg	10.6	35.5
85-68-7	Butylbenzylphthalate	Uh	355	ug/kg	71.0	355
56-55-3	Benzo(a)anthracene	Jh	22.2	ug/kg	10.6	35.5
91-94-1	3,3'-Dichlorobenzidine	Uh	355	ug/kg	106	355
218-01-9	Chrysene	Jh	20.3	ug/kg	10.6	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	Uh	355	ug/kg	71.0	355
117-84-0	Di-n-octylphthalate	Uh	355	ug/kg	71.0	355
205-99-2	Benzo(b)fluoranthene	Jh	31.6	ug/kg	10.6	35.5
207-08-9	Benzo(k)fluoranthene	Uh	35.5	ug/kg	10.6	35.5
50-32-8	Benzo(a)pyrene	Jh	16.6	ug/kg	10.6	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	Uh	35.5	ug/kg	10.6	35.5
53-70-3	Dibenzo(a,h)anthracene	Uh	35.5	ug/kg	10.6	35.5
191-24-2	Benzo(ghi)perylene	Uh	35.5	ug/kg	10.6	35.5
120-82-1	1,2,4-Trichlorobenzene	Uh	355	ug/kg	71.0	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.04	3650	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.58	669	ug/kg	98	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332005	Date Received: 02/18/2010 08:45	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8345RE	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 961919	Inst: MSD7.I	Dilution: 1
Run Date: 03/08/2010 13:54	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 03/07/2010 12:11	Aliquot: 30.06 g	Final Volume: 1 mL
Data File: s7c0813.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
489-40-7	1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,	5.75	364	ug/kg	93	NJ
	Unknown	5.83	1730	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.86	4730	ug/kg	98	NJ
79-92-5	Camphene	6.03	808	ug/kg	83	NJ
	Unknown	6.07	218	ug/kg		J
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	6.19	144	ug/kg	83	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.21	718	ug/kg	97	NJ
77-53-2	Cedrol	6.64	1480	ug/kg	94	NJ
	Unknown	8.77	426	ug/kg		J
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	8.82	297	ug/kg	99	NJ
	Unknown	9.09	274	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.13	8360	ug/kg	98	NJ
	Unknown	9.42	270	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	9.51	308	ug/kg	94	NJ
110936-78-2	7-Oxodehydroabietic acid, methyl ester	9.95	263	ug/kg	93	NJ
	Unknown	10.22	852	ug/kg		J

Data File: /chem/MSD7.i/s030810.b/s7c0813.d
Report Date: 08-Mar-2010 16:11

Page 1

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Data file : /chem/MSD7.i/s030810.b/s7c0813.d
Lab Smp Id: 247332005 Client Smp ID: RE15-10-8345RE
Inj Date : 08-MAR-2010 13:54
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |247332005|961919|1|SVM|1|LANL_rx
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.06000	weight of sample
M	6.25840	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN	FINAL
					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.000	4.004 (1.000)	481292	40.0000	
* 29 Naphthalene-d8	136	4.866	4.876 (1.000)	1760603	40.0000	
* 46 Acenaphthene-d10	164	6.128	6.133 (1.000)	908422	40.0000	
* 67 Phenanthrene-d10	188	7.308	7.312 (1.000)	1706433	40.0000	
* 91 Chrysene-d12	240	9.730	9.730 (1.000)	1490216	40.0000	
* 98 Perylene-d12	264	11.449	11.454 (1.000)	1066567	40.0000	
\$ 3 2-Fluorophenol	112	3.196	3.191 (0.799)	681478	54.4751	1930
\$ 5 Phenol-d5	99	3.711	3.715 (0.928)	1017621	64.8798	2300
\$ 20 Nitrobenzene-d5	82	4.361	4.370 (0.896)	495214	37.2930	1320
\$ 39 2-Fluorobiphenyl	172	5.613	5.613 (0.916)	991656	43.8023	1550
\$ 60 2,4,6-Tribromophenol	329	6.730	6.735 (1.098)	105826	40.2973	1430
\$ 81 p-Terphenyl-d14	244	8.690	8.690 (0.893)	1088276	40.7632	1450

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	8.584	8.593	(0.882)	38185	0.81109	28.8(a)
30 Naphthalene	128	4.881	4.890	(1.003)	10458	0.31445	11.2(aQ)
68 Phenanthrene	178	7.327	7.332	(1.003)	33660	0.96125	34.1(a)
76 Fluoranthene	202	8.367	8.377	(1.145)	51806	1.36067	48.3
89 Benzo(a)anthracene	228	9.715	9.715	(0.998)	22345	0.62548	22.2(aQ)
92 Chrysene	228	9.749	9.759	(1.002)	18229	0.57342	20.3(aQ)
95 Benzo(b)fluoranthene	252	10.910	10.919	(0.953)	26651	0.89101	31.6(a)
97 Benzo(a)pyrene	252	11.362	11.372	(0.992)	11452	0.46694	16.6(a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s7c0813.d

Report Date: 03/08/2010 14:20

Lab. ID: 247332005

SampleType: SAMPLE

Injection Date: 08-MAR-2010 13:54

Operator: JMB3

Instrument: MSD7.i

Sample Info: |247332005|961919|1|SVM|1|LANL_rx

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	52133	3.71	3.79	80-120	100	(T)
93	6551	3.68	3.79	254-314	13	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	72638	4.36	4.25	80-120	100	(T)
42	55041	4.36	4.25	65-125	76	(T)

30	Naphthalene	CAS#: 91-20-3				
128	10458	4.88	4.89	80-120	100	()
129	1369	4.88	4.89	0- 43	13	()
127	1316	4.88	4.90	16- 76	13	(Q)

40	2-Chloronaphthalene	CAS#: 91-58-7				
162	11458	5.76	5.72	80-120	100	()
164	10552	5.86	5.72	3- 63	92	(QT)
127	1600	5.75	5.72	8- 68	14	()

42	o-Nitroaniline	CAS#: 88-74-4				
65	15122	5.75	5.78	80-120	100	()
92	25116	5.75	5.78	31- 91	166	(Q)
138	19150	5.86	5.78	77-137	127	(T)

41	m-Nitroaniline	CAS#: 99-09-2				
138	19150	5.86	6.08	80-120	100	(T)
92	267076	5.86	6.08	73-133	1395	(QT)
108	337522	5.86	6.08	0- 39	1762	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
43 Dimethylphthalate				CAS#: 131-11-3		
163	86667	5.86	5.89	80-120	100	()
164	10552	5.86	5.89	0- 40	12	()

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	120659	6.13	5.94	80-120	100	(T)
63	4528	6.12	5.94	54-114	4	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	120659	6.13	6.25	80-120	100	(T)
89	4593	6.13	6.24	39- 99	4	(QT)
63	2080	6.12	6.24	19- 79	2	(QT)

51 Diethylphthalate				CAS#: 84-66-2		
149	101247	6.64	6.40	80-120	100	(T)
177	25733	6.64	6.40	0- 53	25	(T)
150	372647	6.64	6.40	0- 42	368	(QT)

53 Fluorene				CAS#: 86-73-7		
166	16394	6.64	6.55	80-120	100	(T)
165	49087	6.64	6.55	61-121	299	(QT)
167	4883	6.64	6.55	0- 44	30	(T)

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	192	6.73	6.56	80-120	100	(T)
105	4119	6.72	6.56	11- 71	2137	(QT)
51	1268	6.73	6.56	55-115	658	(QT)

58 1,2-Diphenylhydrazine				CAS#: 122-66-7		
77	87665	6.64	6.65	80-120	100	()
105	83857	6.64	6.65	0- 46	96	(Q)
182	856	6.66	6.65	0- 59	1	()

68 Phenanthrene				CAS#: 85-01-8		
178	33660	7.33	7.33	80-120	100	()
179	6578	7.32	7.33	0- 46	20	()
176	6543	7.33	7.33	0- 48	19	()

69 Anthracene				CAS#: 120-12-7		
178	33660	7.33	7.38	80-120	100	()
179	6578	7.32	7.38	0- 46	20	()
176	6549	7.33	7.38	0- 48	19	()

76 Fluoranthene				CAS#: 206-44-0		
202	51806	8.37	8.38	80-120	100	()
203	9267	8.37	8.38	0- 48	18	()
101	7846	8.37	8.38	0- 42	15	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
79 Pyrene		CAS#: 129-00-0				
202	38185	8.58	8.59	80-120	100	()
200	8025	8.58	8.59	0- 50	21	()
101	5243	8.58	8.59	0- 44	14	()

85 Butylbenzylphthalate		CAS#: 85-68-7				
149	46068	9.13	9.12	80-120	100	()
91	193588	9.13	9.12	39- 99	420	(Q)
206	944	9.12	9.12	0- 51	2	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	22345	9.72	9.72	80-120	100	()
226	5322	9.72	9.72	0- 56	24	()
229	30309	9.70	9.72	0- 50	136	(Q)

92 Chrysene		CAS#: 218-01-9				
228	18229	9.75	9.76	80-120	100	()
229	12383	9.75	9.76	0- 50	68	(Q)
226	5132	9.75	9.76	0- 59	28	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	26651	10.91	10.92	80-120	100	()
253	6831	10.91	10.92	0- 52	26	()
125	5654	10.92	10.92	0- 41	21	()

96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	26651	10.91	10.96	80-120	100	()
253	7238	10.91	10.96	0- 52	27	()
125	5654	10.92	10.95	0- 42	21	()

97 Benzo(a)pyrene		CAS#: 50-32-8				
252	11452	11.36	11.37	80-120	100	()
253	3152	11.36	11.37	0- 52	28	()
125	1768	11.36	11.37	0- 43	15	()

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD7.i/s030810.b/s7c0813.d
 Lab Smp Id: 247332005 Client Smp ID: RE15-10-8345RE
 Inj Date : 08-MAR-2010 13:54
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |247332005|961919|1|SVM|1|LANL_rx
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
 Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.06000	weight of sample
M	6.25840	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.000	2942904	40.000
* 46 Acenaphthene-d10	6.128	5048824	40.000
* 91 Chrysene-d12	9.730	4426023	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT			CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	L1B ENTRY		
=====	=====	=====	=====	=====	=====	=====	=====	
Unknown Aldol Condensate					CAS #:			
3.041	7574846	102.957425	3650	0		0	10	
1R-.alpha.-Pinene					CAS #: 7785-70-8			
3.576	1386050	18.8392089	668	98	NIST05.L	15188	10	
1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,					CAS #: 489-40-7			
5.752	1295091	10.2605330	364	93	NIST05.L	60084	46	
Unknown					CAS #:			
5.830	6156770	48.7778512	1730	0		0	46	
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7			
5.863	16807861	133.162571	4720	98	NIST05.L	60018	46	
Camphene					CAS #: 79-92-5			
6.027	2873552	22.7661091	808	83	NIST05.L	15161	46	
Unknown					CAS #:			
6.065	776797	6.15428267	218	0		0	46	
1,5,5-Trimethyl-6-methylene-cyclohexene					CAS #: 514-95-4			
6.186	512961	4.06400447	144	83	NIST05.L	15292	46	
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr					CAS #: 19912-83-5			
6.215	2554958	20.2420045	718	97	NIST05.L	59904	46	
Cedrol					CAS #: 77-53-2			
6.638	5270736	41.7581223	1480	94	NIST05.L	72884	46	
Unknown					CAS #:			
8.772	1328651	12.0076309	426	0		0	91	
Phenanthrene, 1-methyl-7-(1-methylethyl)					CAS #: 483-65-8			
8.825	925651	8.36553263	297	99	NIST05.L	81277	91	
Unknown					CAS #:			
9.089	853577	7.71416209	274	0		0	91	
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9			
9.128	26053974	235.461676	8360	98	NIST05.L	116239	91	
Unknown					CAS #:			
9.422	842355	7.61274322	270	0		0	91	

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
----	----	-----	-----	----	-----	-----	-----
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 1740-19-8		
9.513	961888	8.69302519	308	94	NIST05.L	125037	91
7-Oxodehydroabiatic acid, methyl ester					CAS #: 110936-78-2		
9.947	820980	7.41957082	263	93	NIST05.L	141448	91
Unknown					CAS #:		
10.221	2656666	24.0095084	852	0		0	91

Data File: /chem/HSD7.i/s030810.b/s700813.d

Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Sample Info: 1247332005196191911SVH11LNL.rx

Volume Injected (ul): 0.5

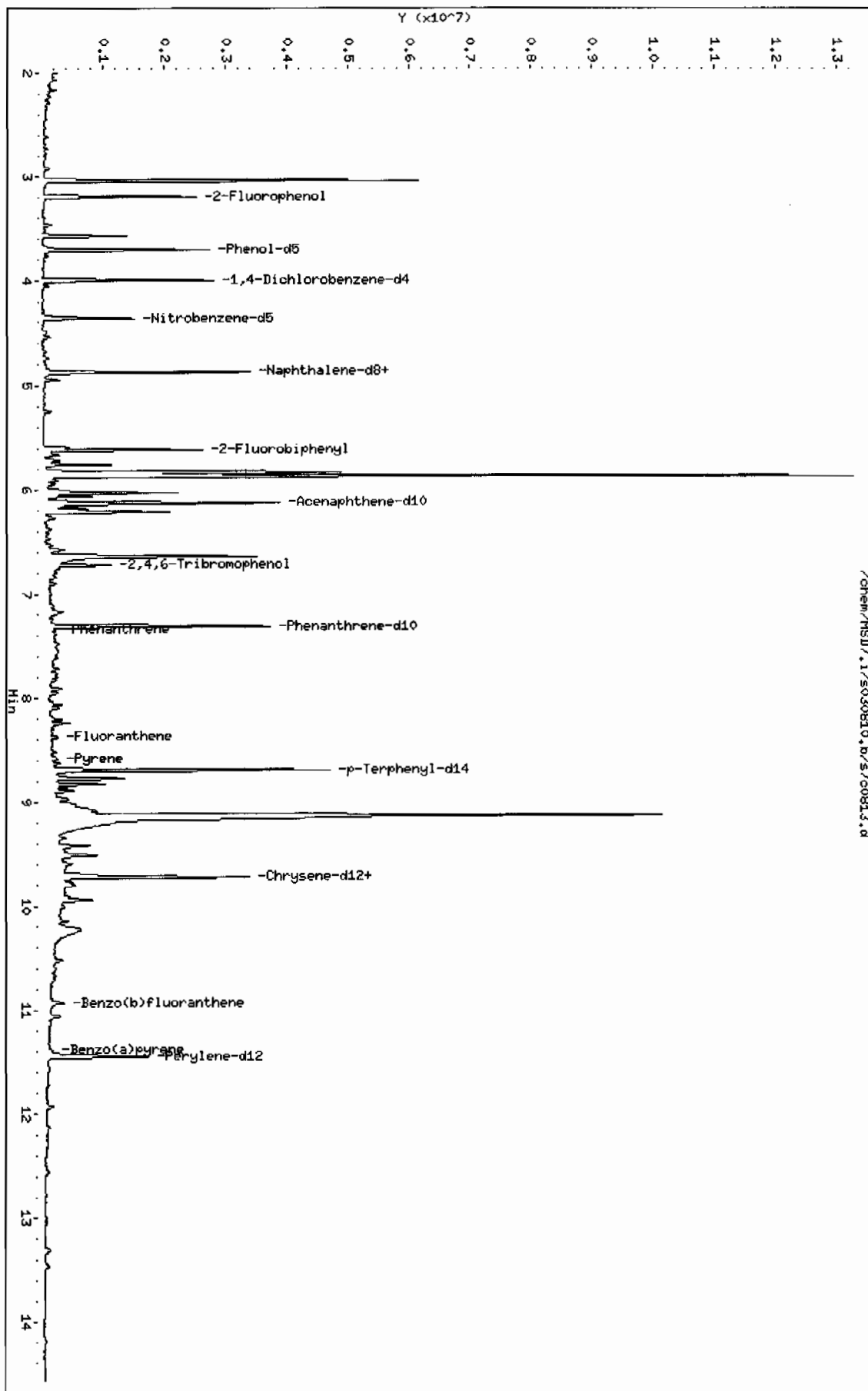
Column phase: J&W DB-5MS

Instrument: HSD7.i

Operator: JHB3

Column diameter: 0.20

/chem/HSD7.i/s030810.b/s700813.d



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 1247332005196191911SVMI11LANL_rx

Volume Injected (uL): 0.5

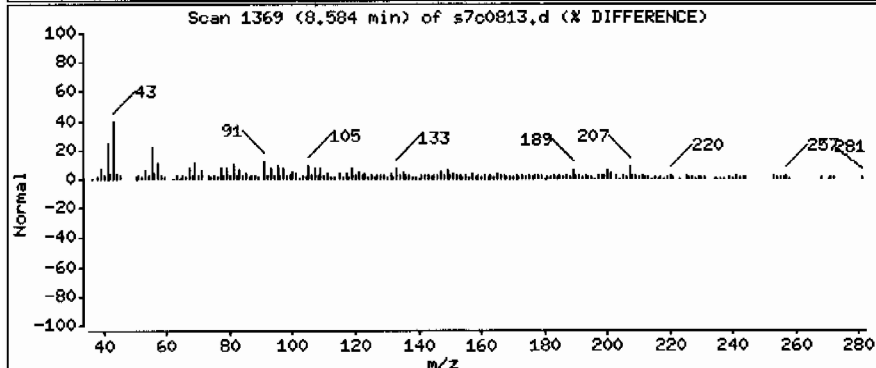
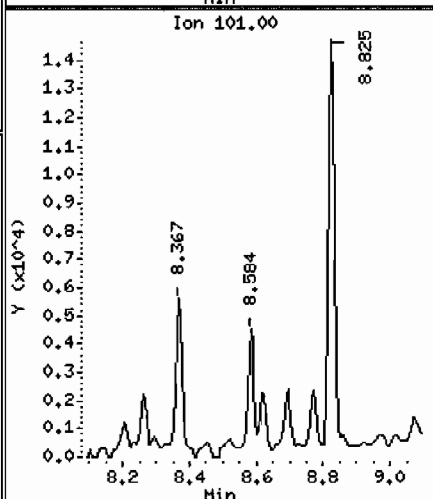
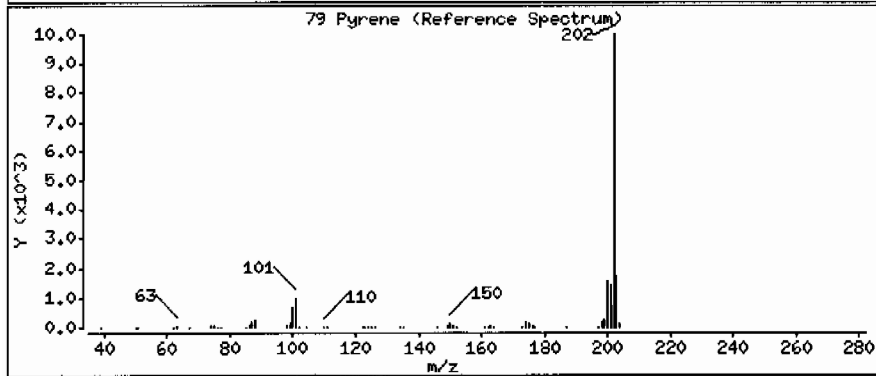
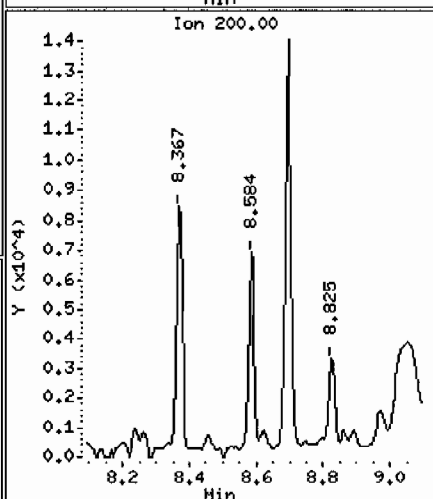
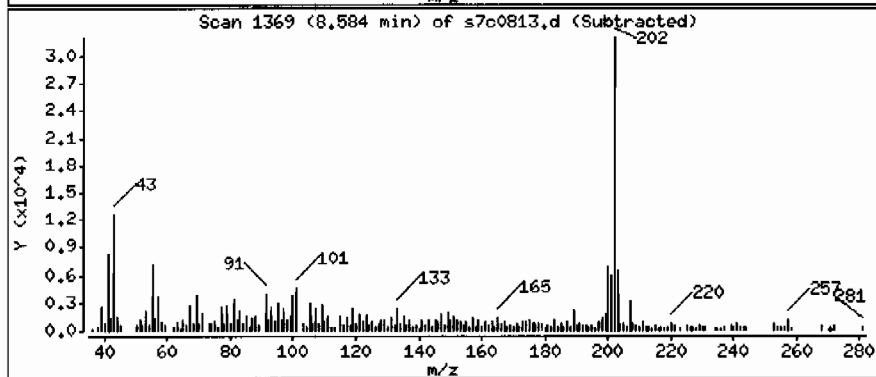
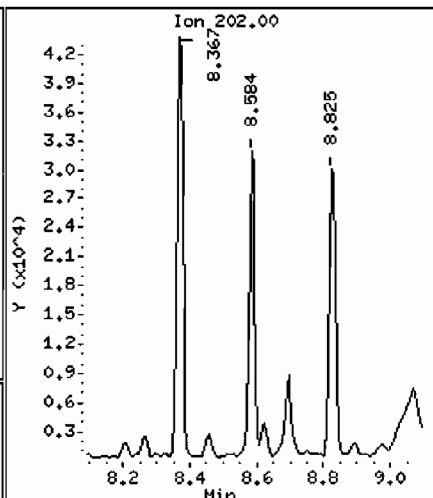
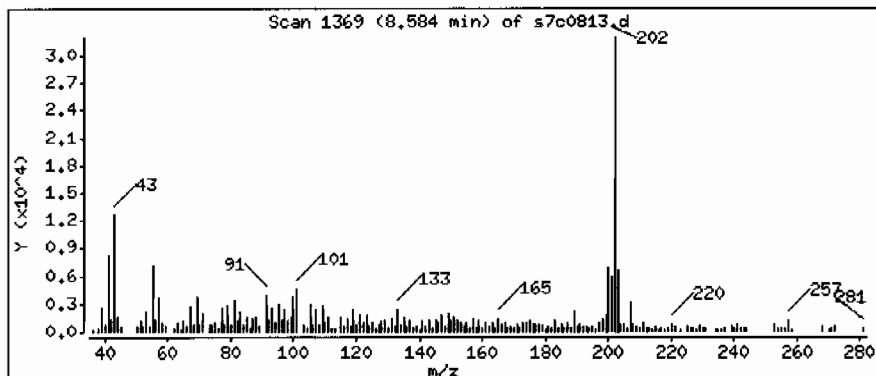
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 28.8 ug/Kg



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: HSD7.i

Sample Info: 1247332005196191911SVH111LANL_rx

Volume Injected (uL): 0.5

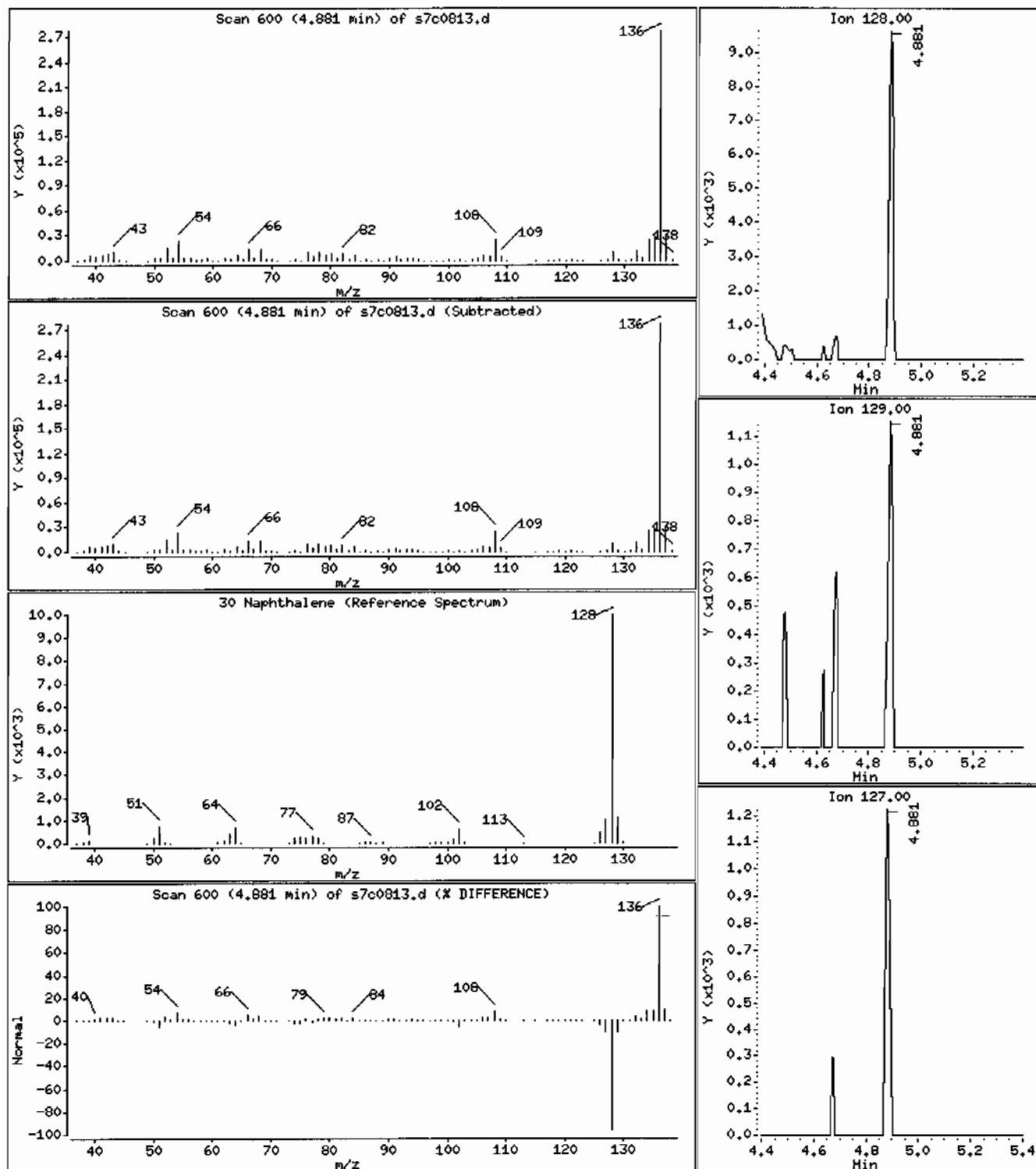
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

30 Naphthalene

Concentration: 11.2 ug/Kg



Data File: /chem/MSD7.i/s030810.b/s7c0813.d

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Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: I247332005I961919I1ISVMI1ILANL_rx

Volume Injected (uL): 0.5

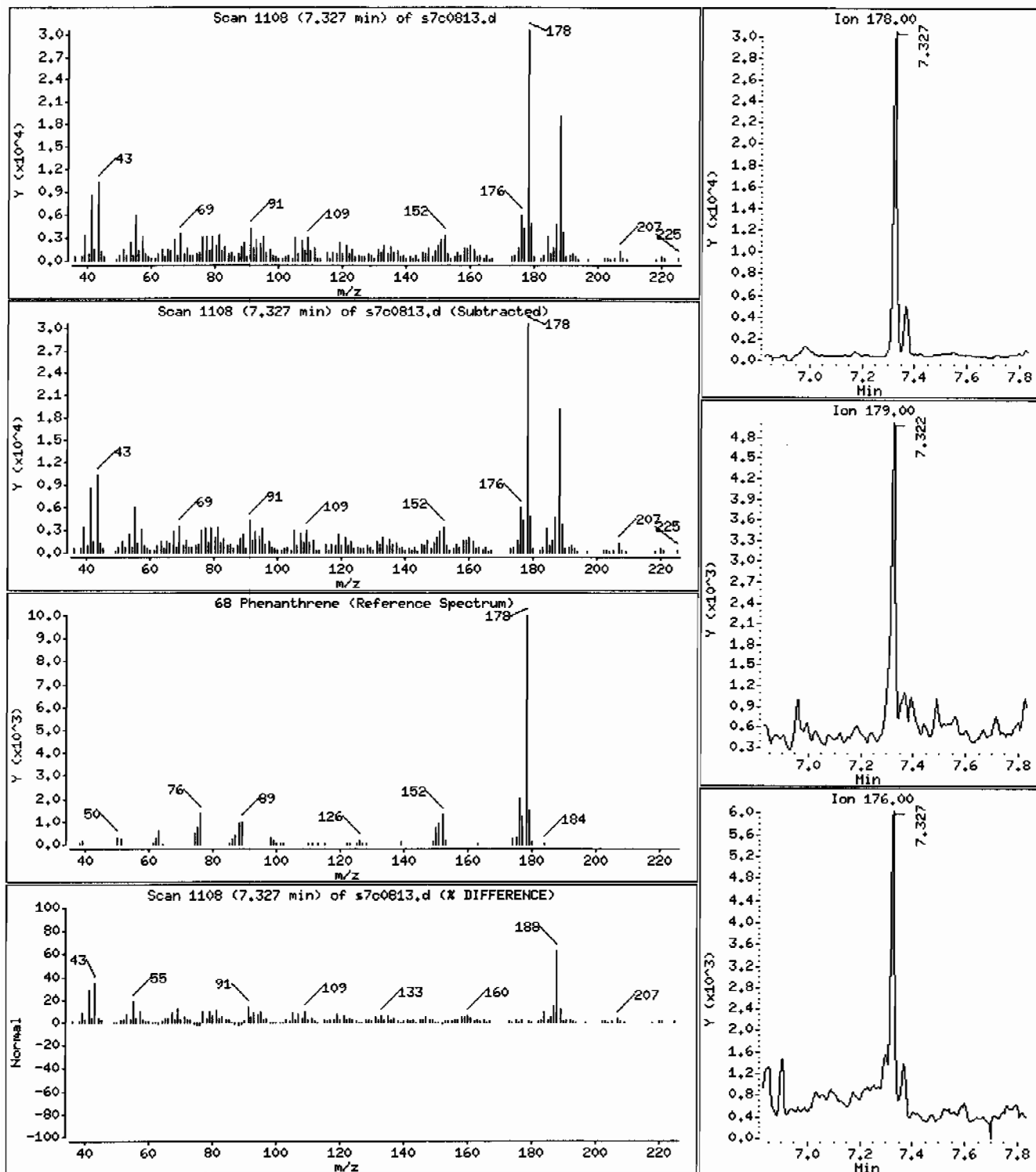
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 34.1 ug/Kg



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 1247332005196191911SVH11ILANL_rx

Volume Injected (uL): 0.5

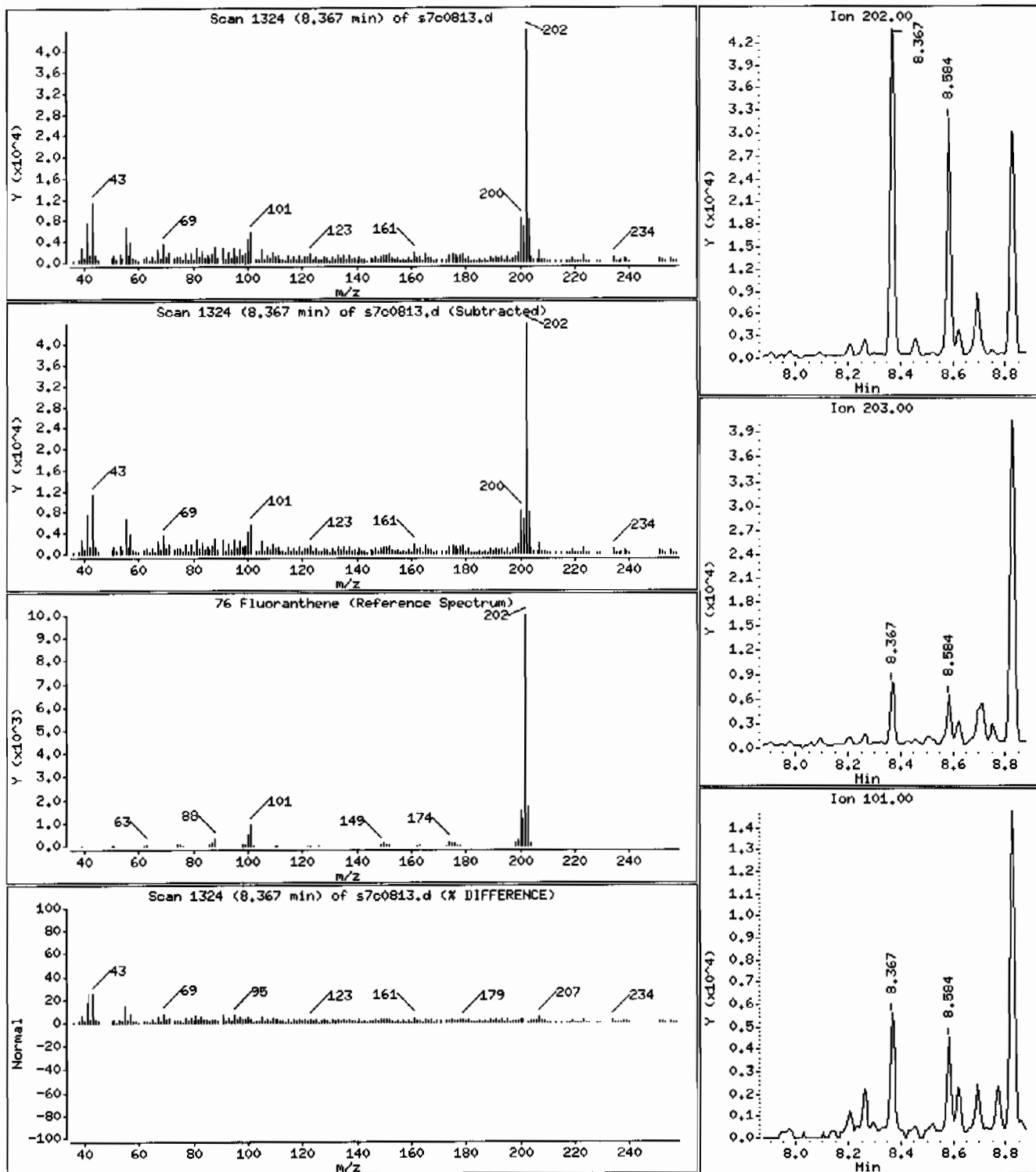
Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 48.3 ug/Kg



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVMI11LANL_rx

Volume Injected (uL): 0.5

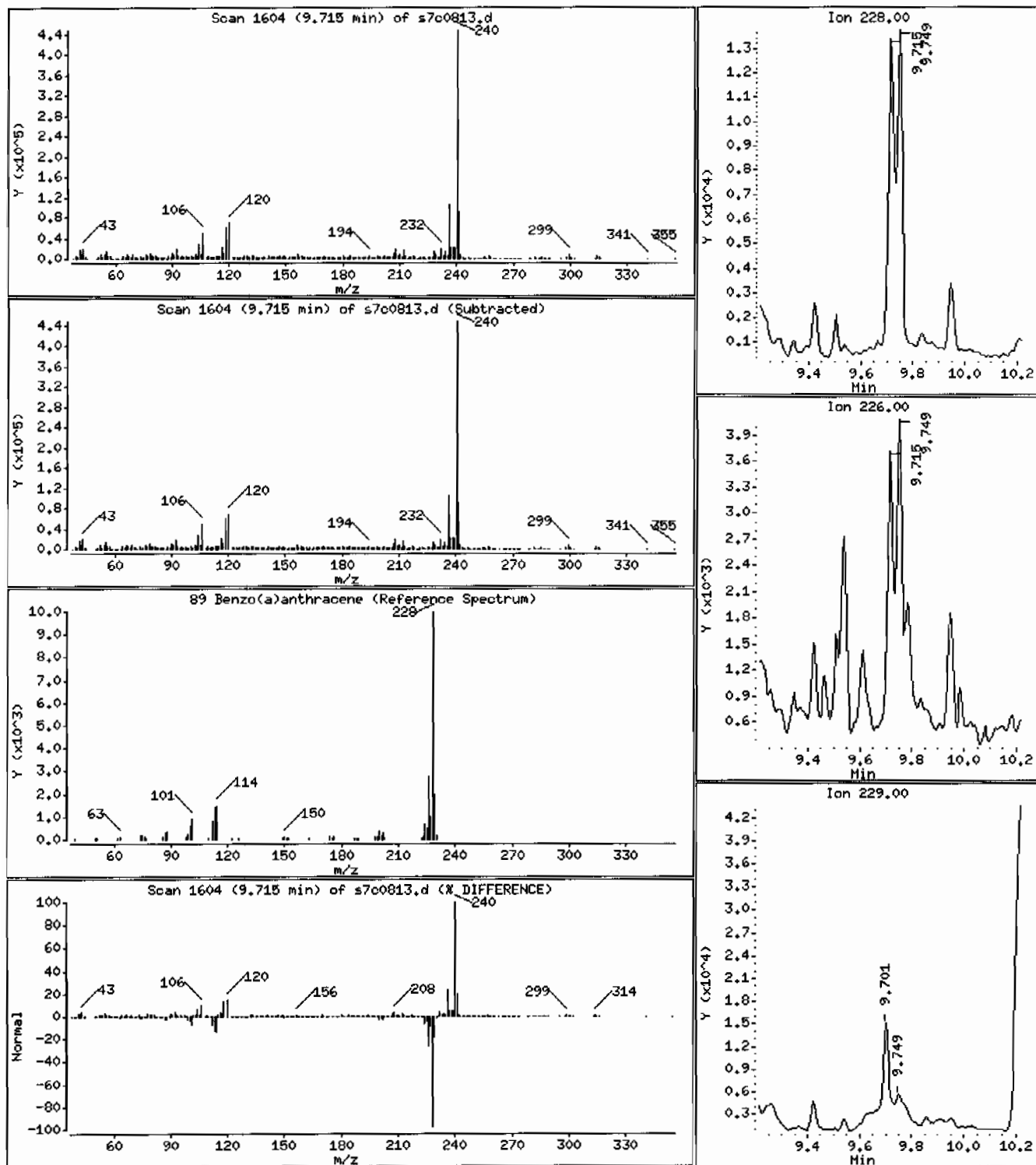
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 22.2 ug/Kg



Data File: /chem/MSD7.i/s030810.b/s7c0813.d

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Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVH111LANL_rx

Volume Injected (uL): 0.5

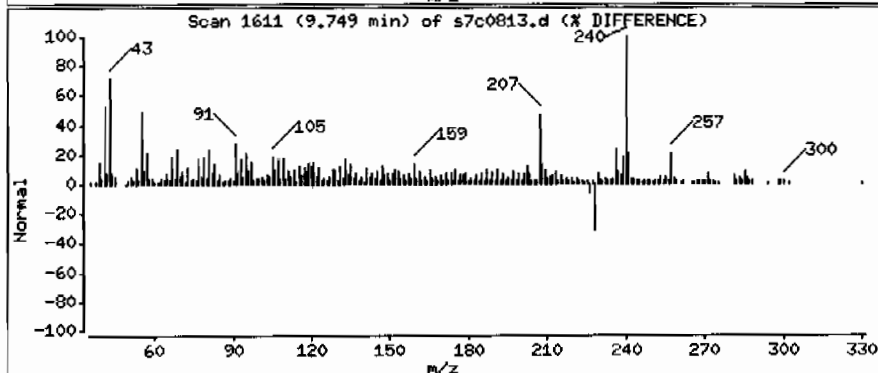
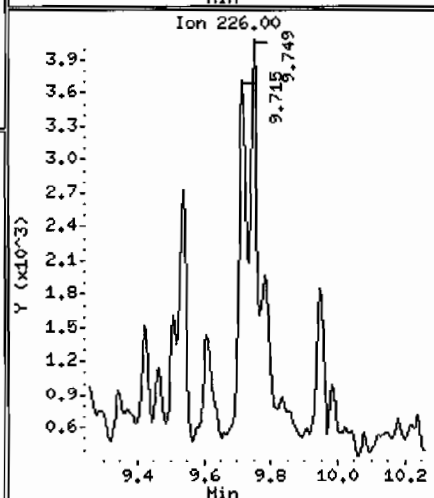
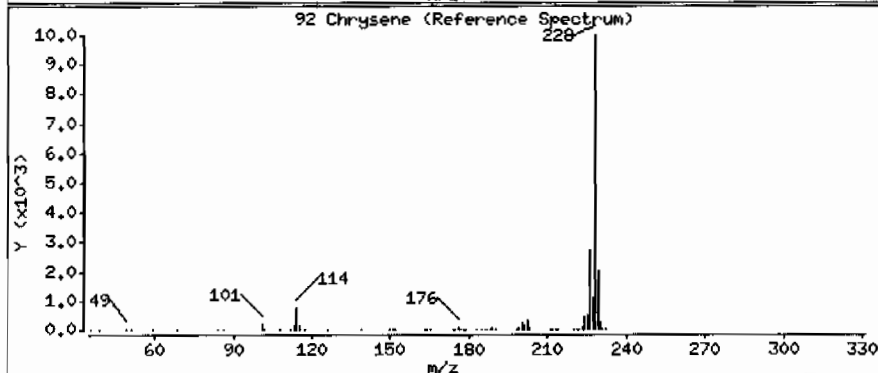
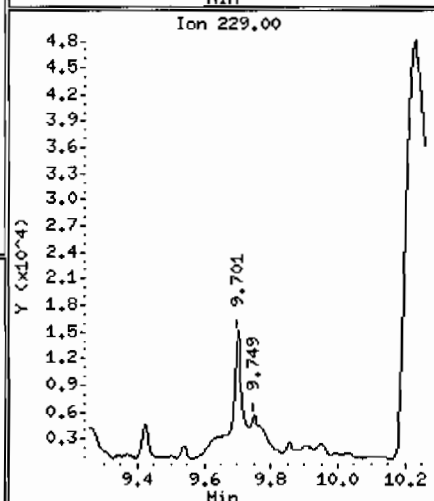
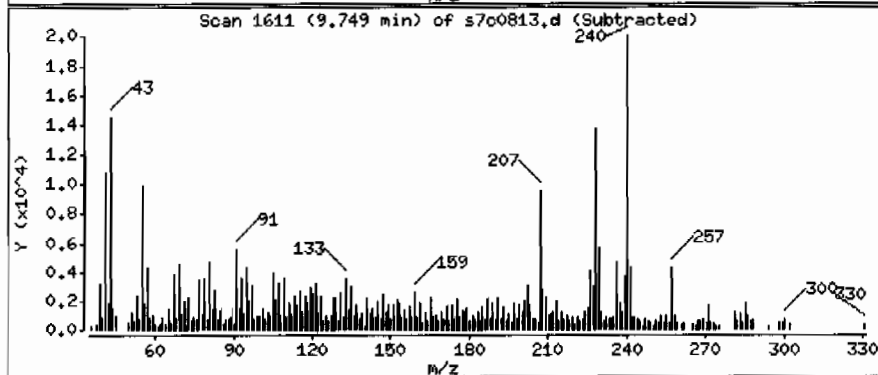
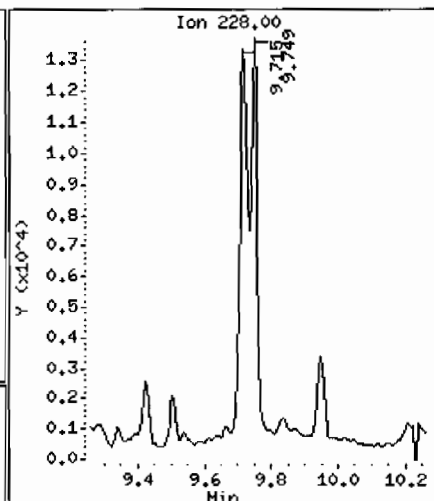
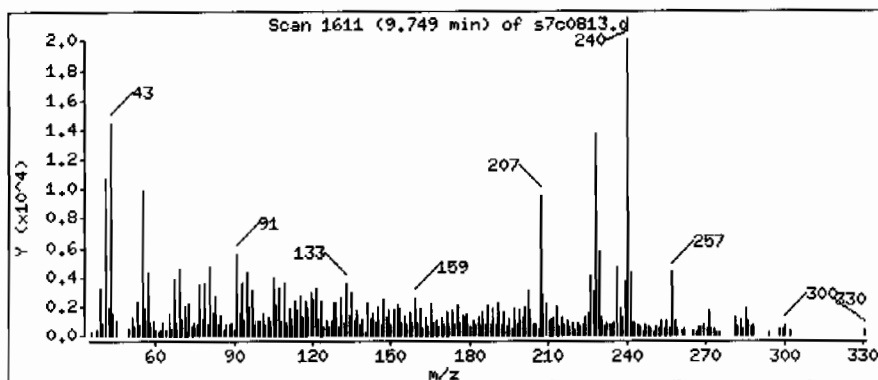
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 20.3 ug/Kg



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVMI11LANL_rx

Volume Injected (uL): 0.5

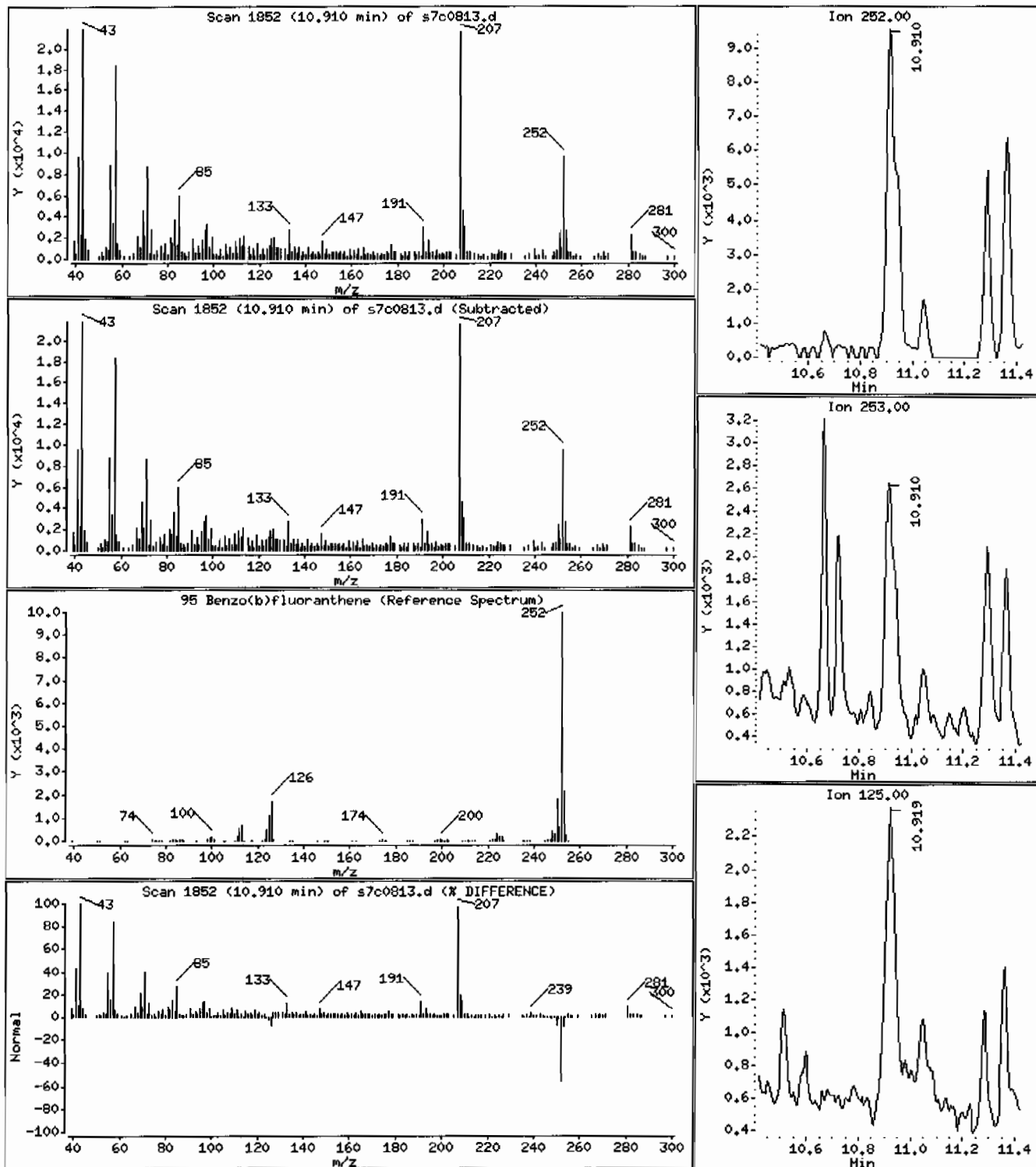
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 31.6 ug/Kg



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 1247332005196191911SVH111LANL_rx

Volume Injected (uL): 0.5

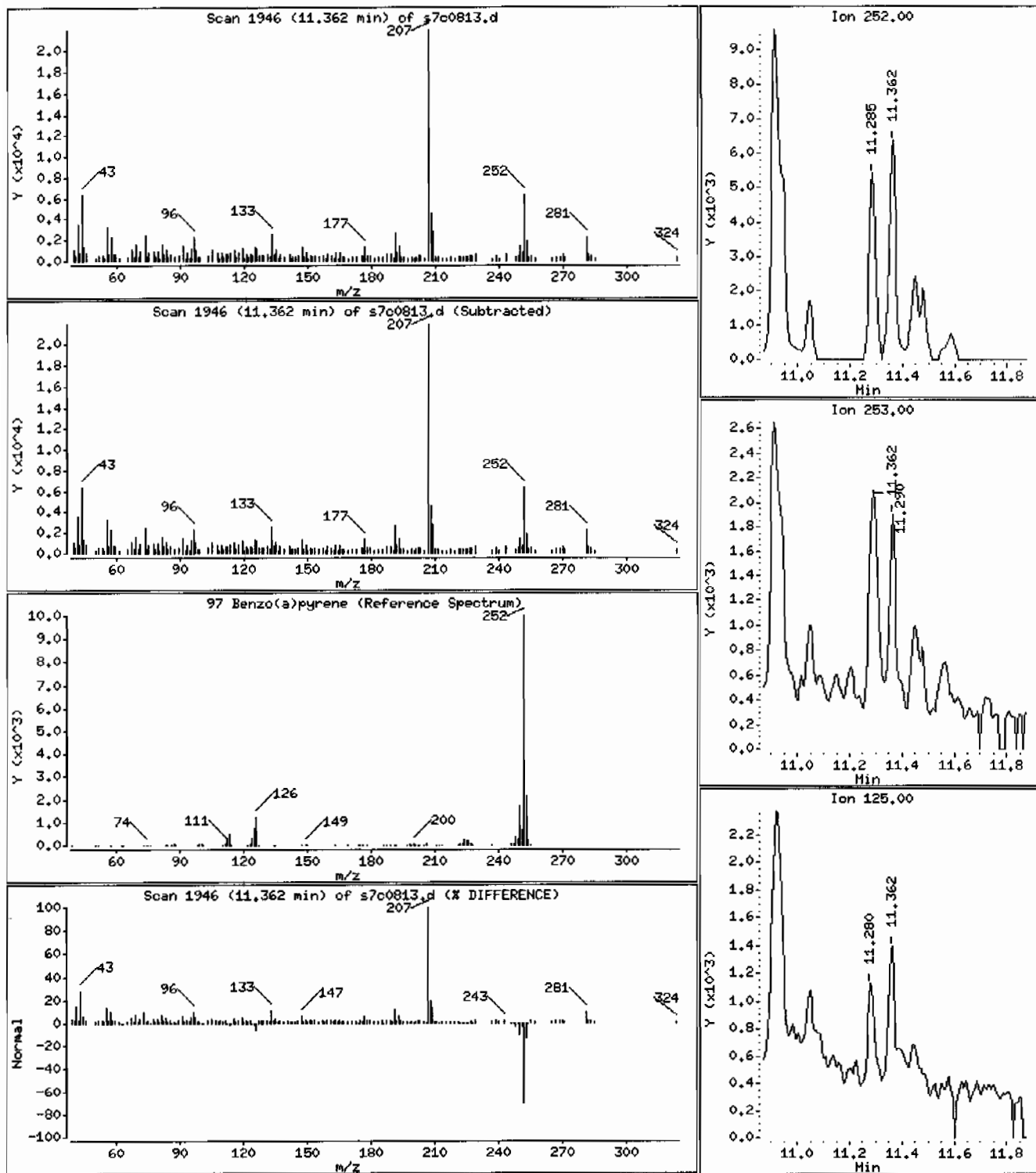
Operator: JMB3

Column phase: J&W DB-5HS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 16.6 ug/Kg



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 1247332005196191911SVH111LANL_rx

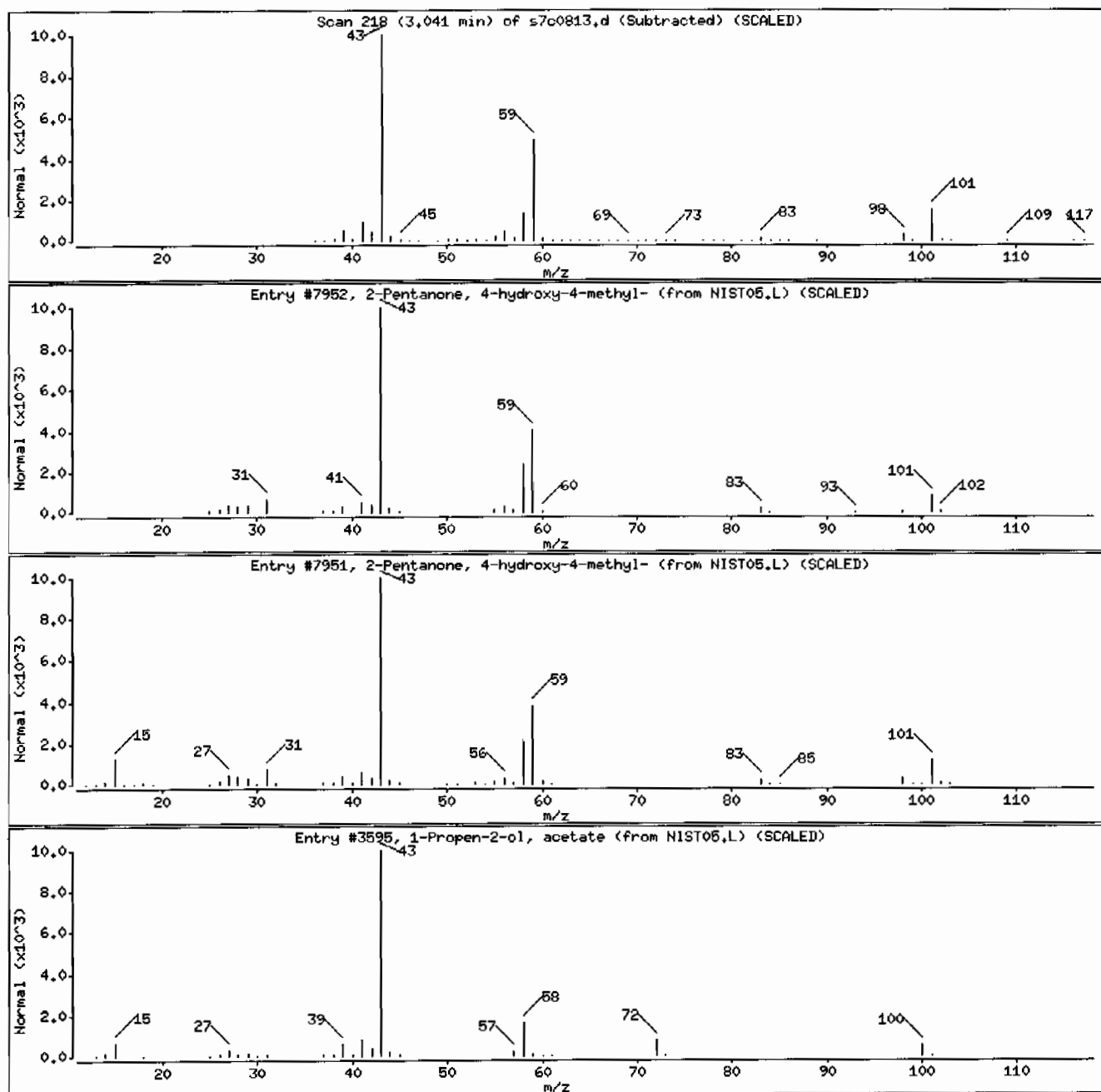
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	64	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
1-Propen-2-ol, acetate	108-22-5	NIST05.L	3595	10	C5H8O2	100



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVMI11LANL_rx

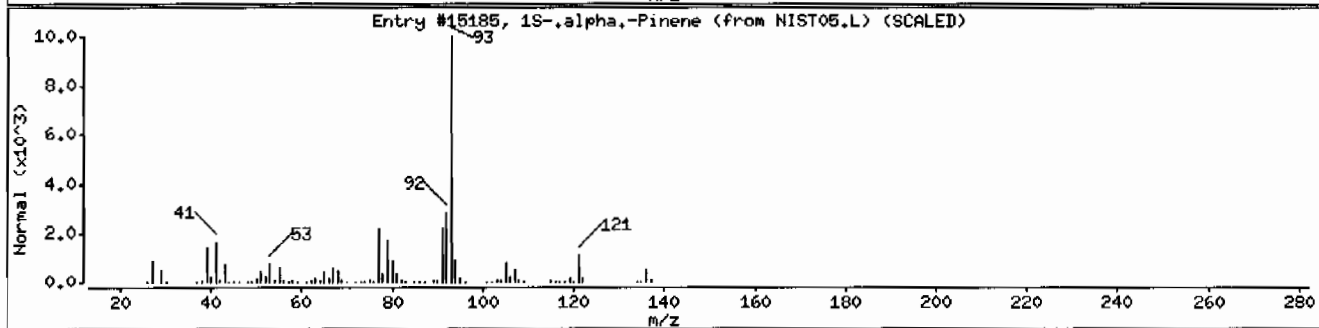
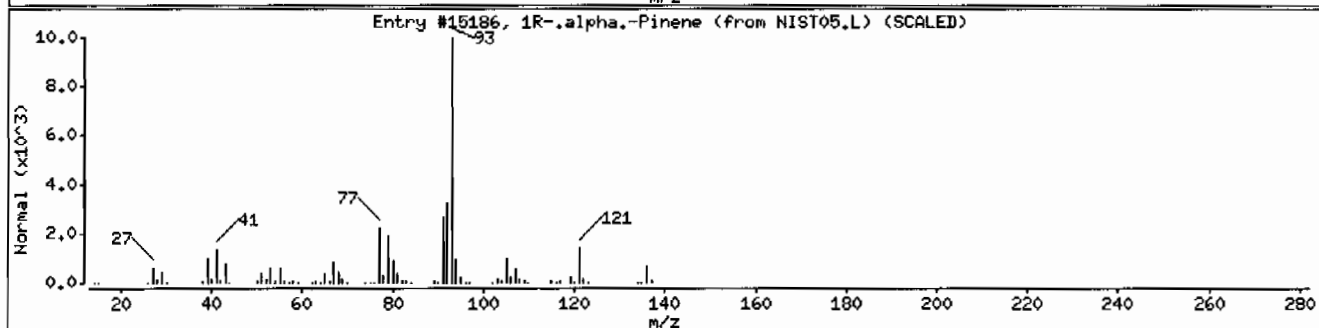
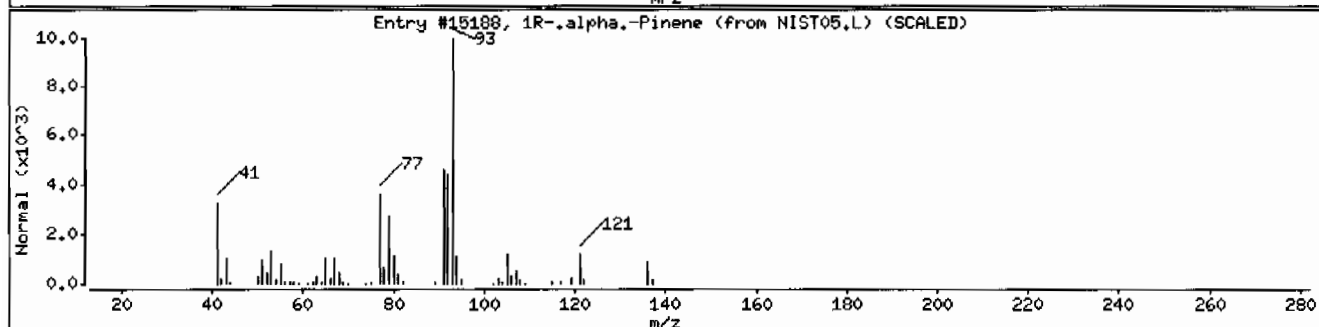
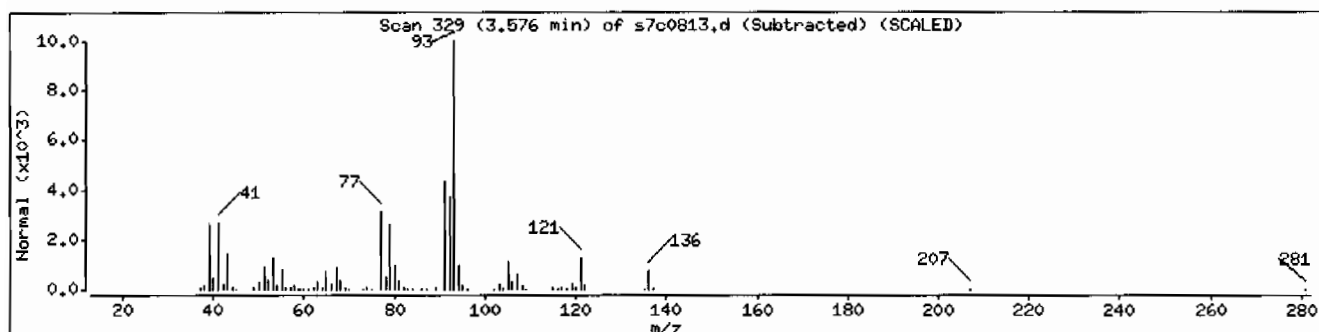
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15188	98	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	97	C10H16	136
1S-.alpha.-Pinene	7785-26-4	NIST05.L	15185	96	C10H16	136



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVH111LANL_rx

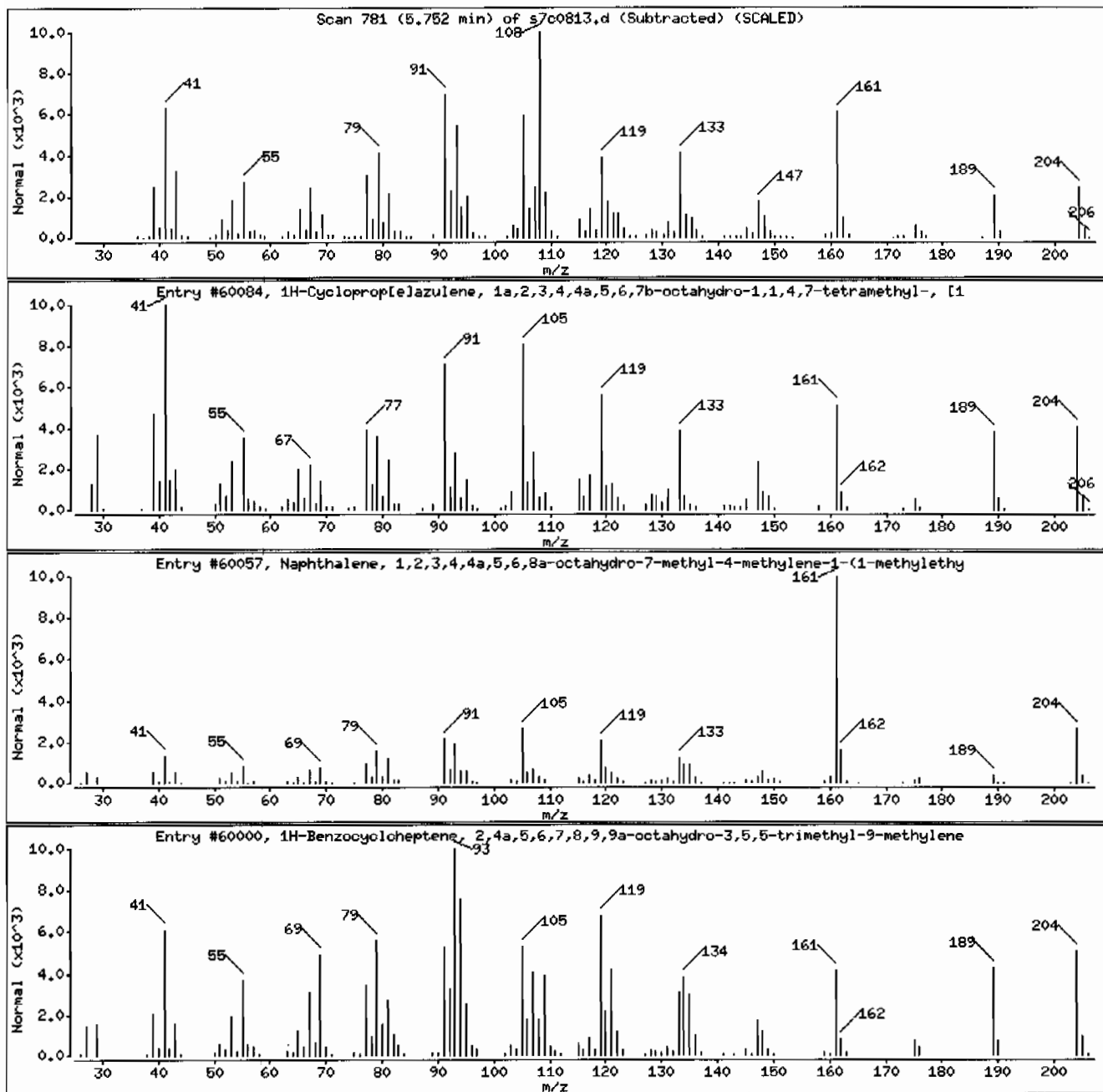
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Cycloprop[elazulene, 1a,2,3,4,4a,5,6,	489-40-7	NIST05.L	60084	93	C15H24	204
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	39029-41-9	NIST05.L	60057	90	C15H24	204
1H-Benzocycloheptene, 2,4a,5,6,7,8,9a-	3853-83-6	NIST05.L	60000	70	C15H24	204



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: I247332005196191911SVH11ILANL_rx

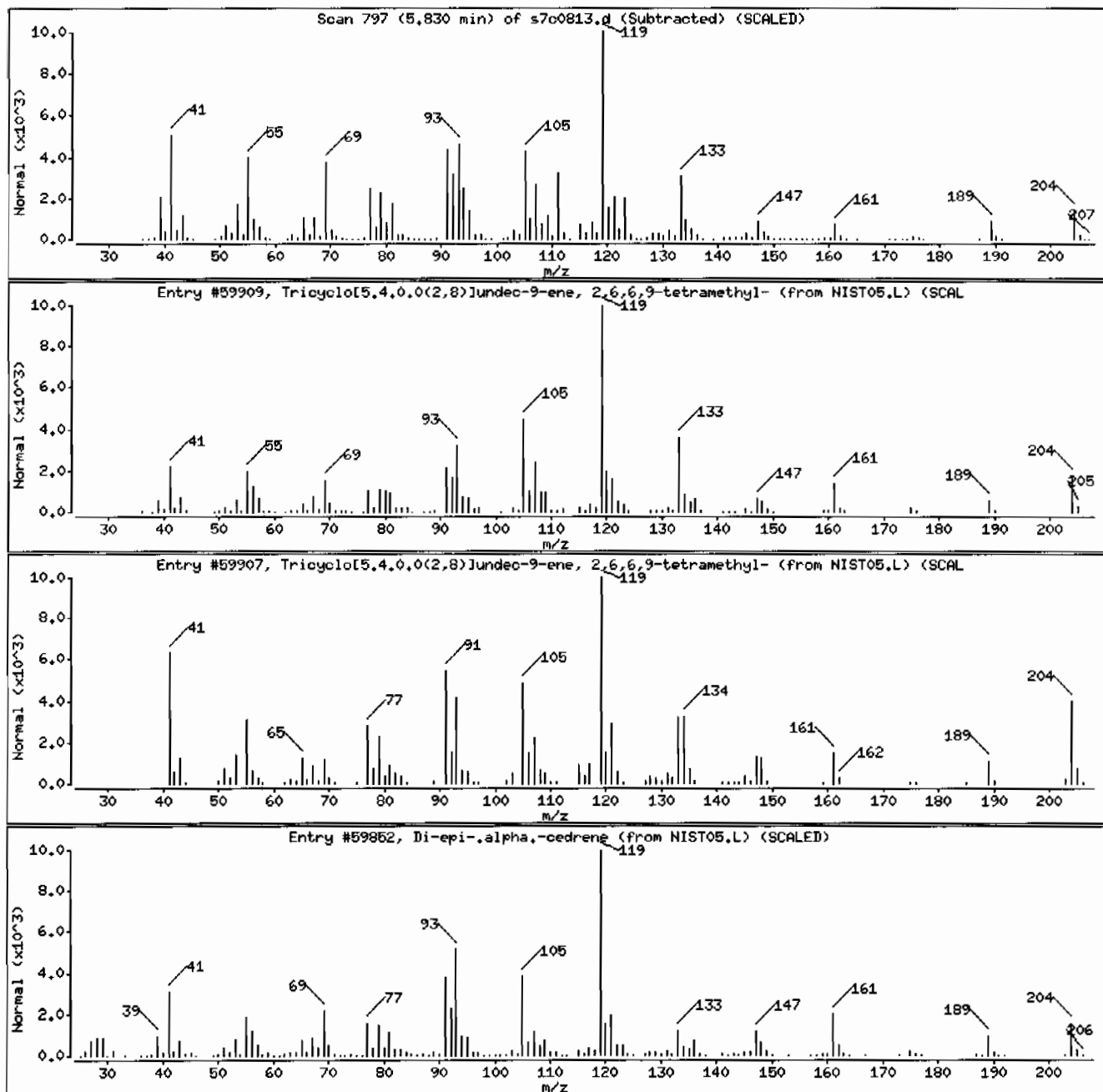
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	78	C ₁₅ H ₂₄	204
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59907	70	C ₁₅ H ₂₄	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	58	C ₁₅ H ₂₄	204



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: HSD7.i

Sample Info: 124733200519619111SVMI11LANL_rx

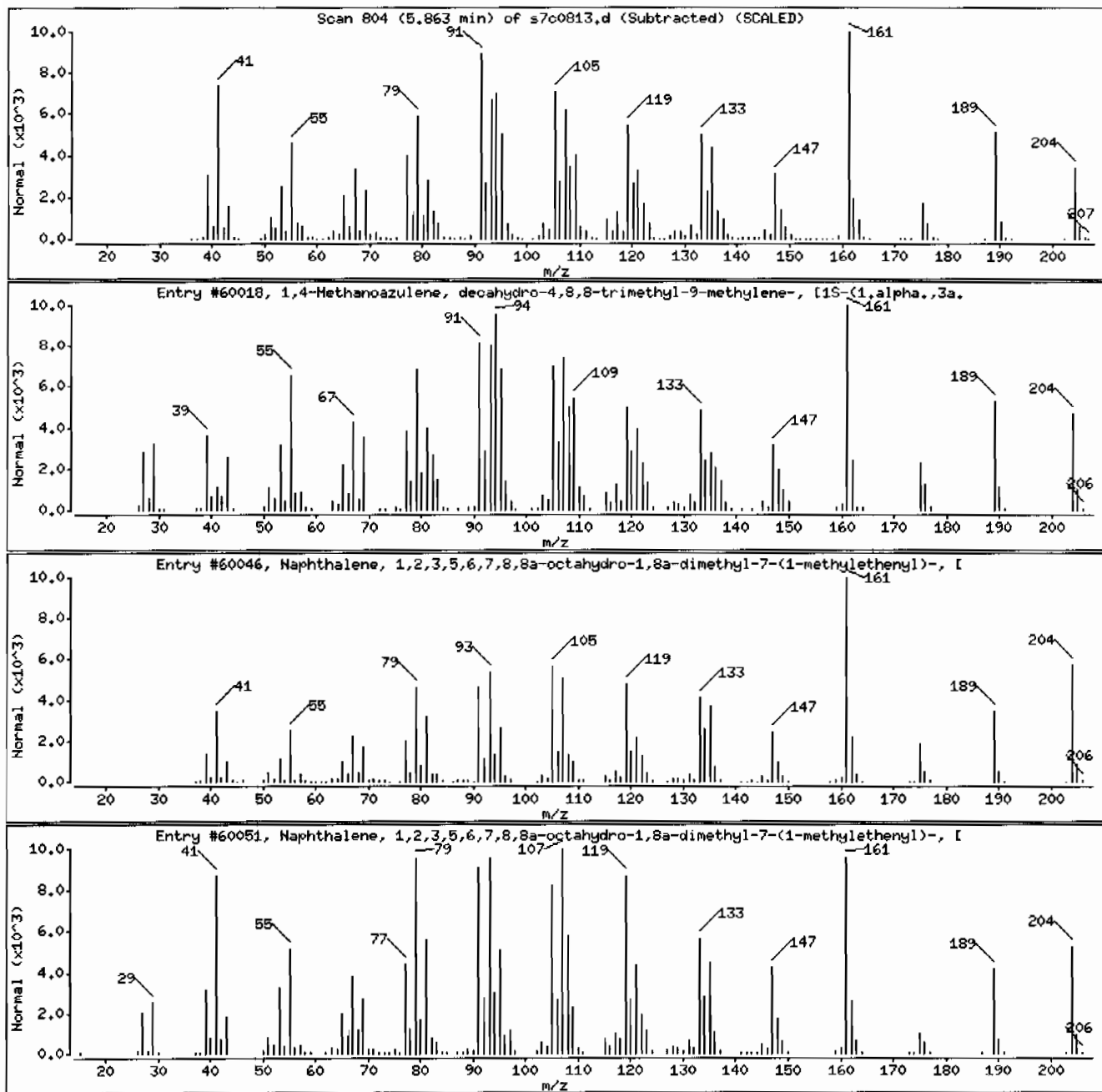
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	98	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	96	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	10219-75-7	NIST05.L	60051	95	C15H24	204



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: HSD7.i

Sample Info: 1247332005196191911SVH111LANL_rx

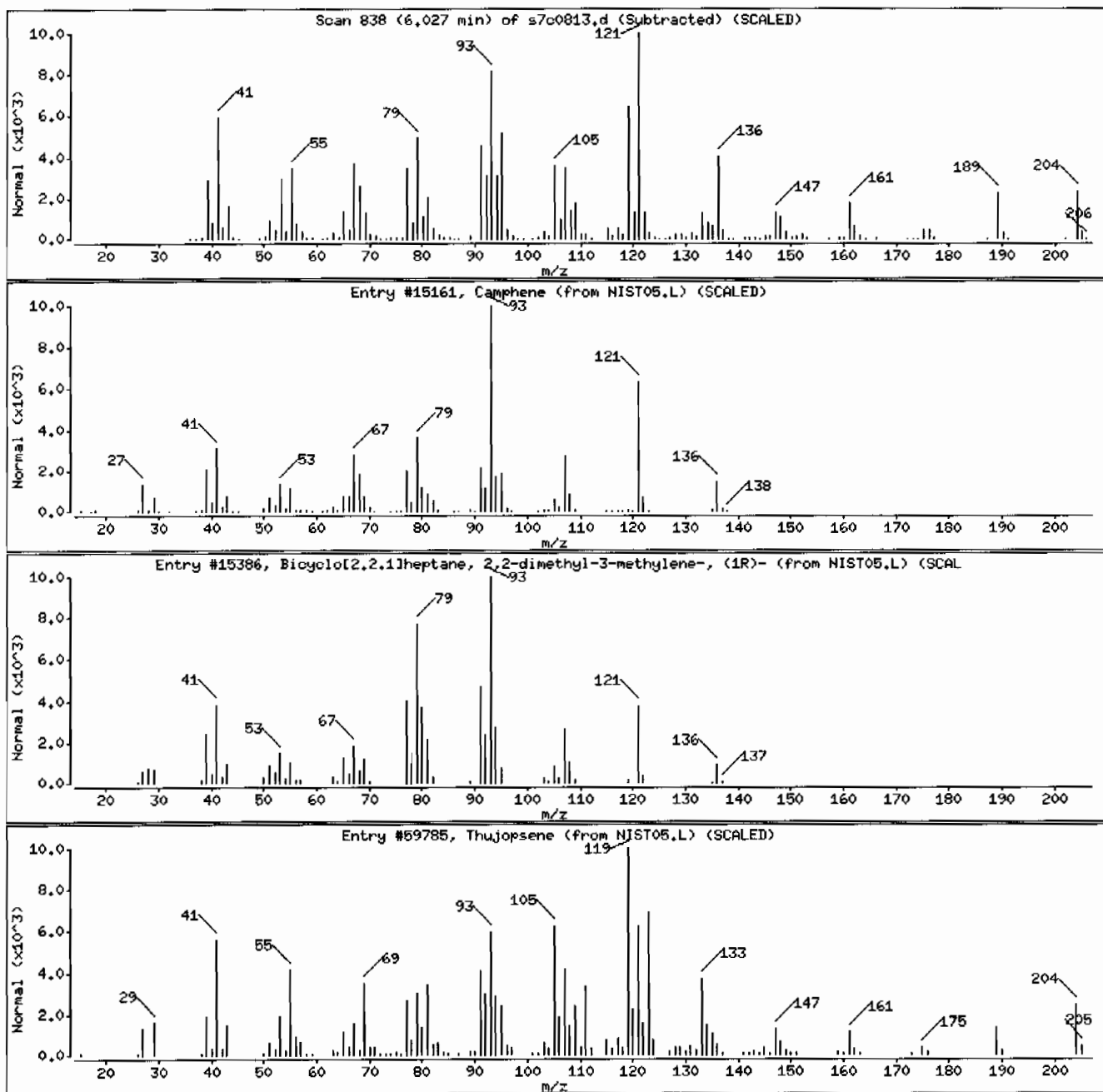
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Camphene	79-92-5	NIST05.L	15161	83	C10H16	136
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-03-6	NIST05.L	15386	83	C10H16	136
Thujopsene	470-40-6	NIST05.L	59785	78	C15H24	204



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVH111LANL_rx

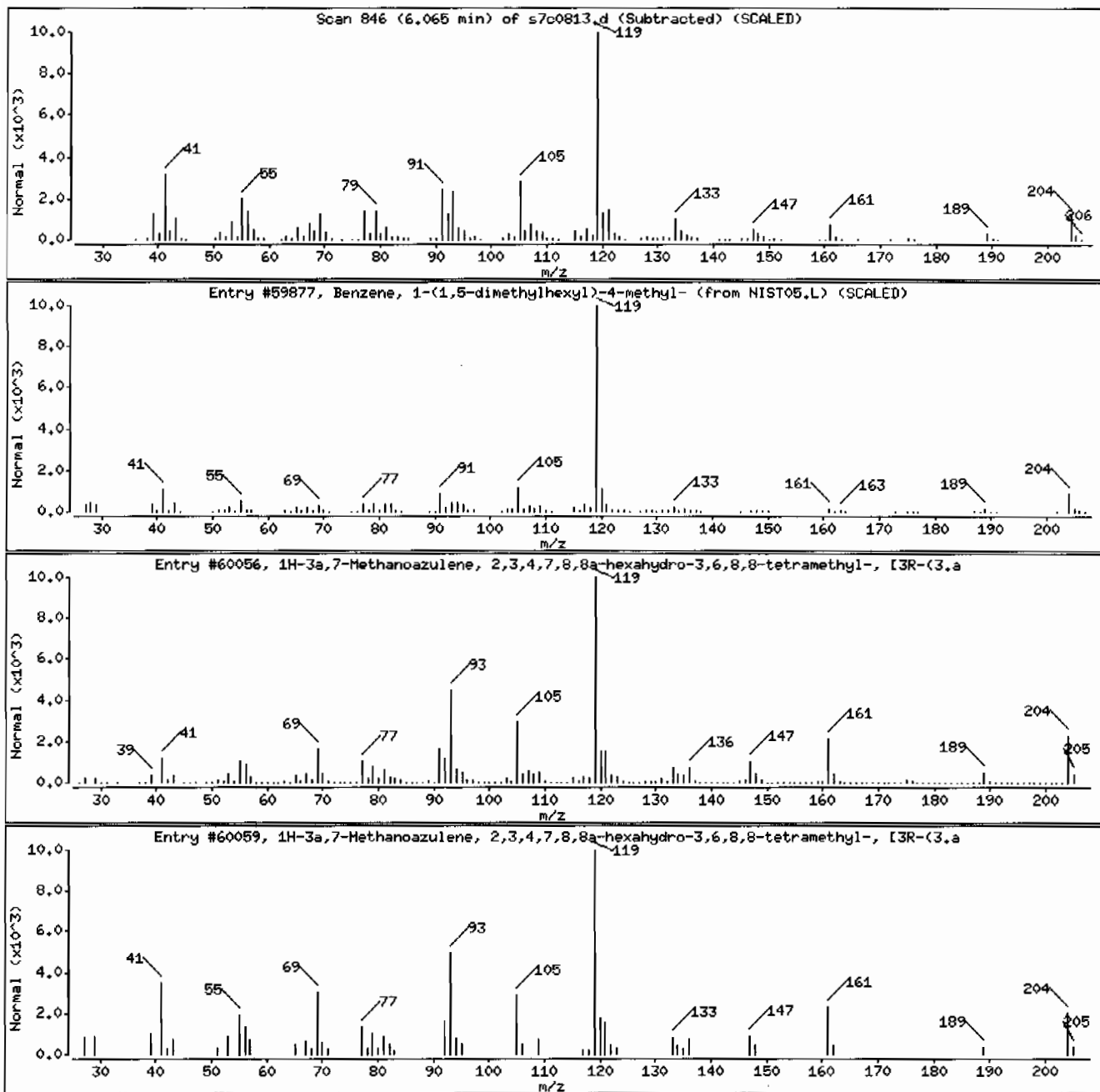
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-(1,5-dimethylhexyl)-4-methyl-	1461-02-5	NIST05.L	59877	64	C15H24	204
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60056	58	C15H24	204
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60059	58	C15H24	204



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVMI11LANL_rx

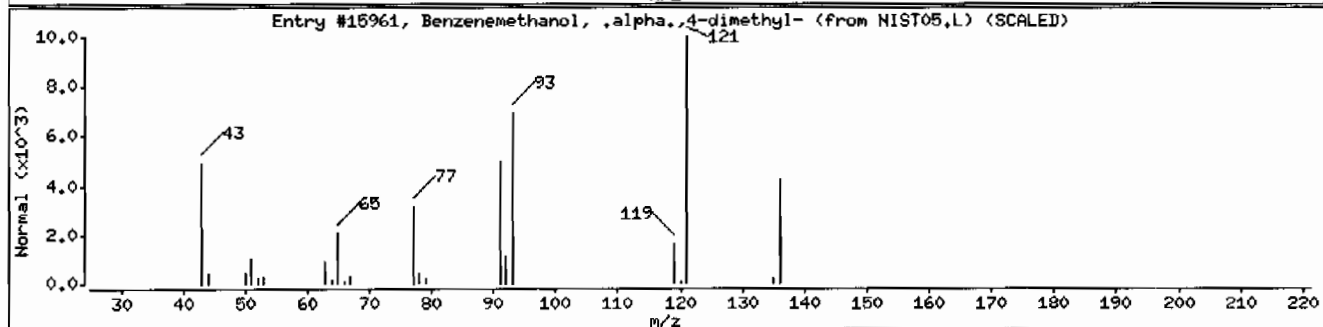
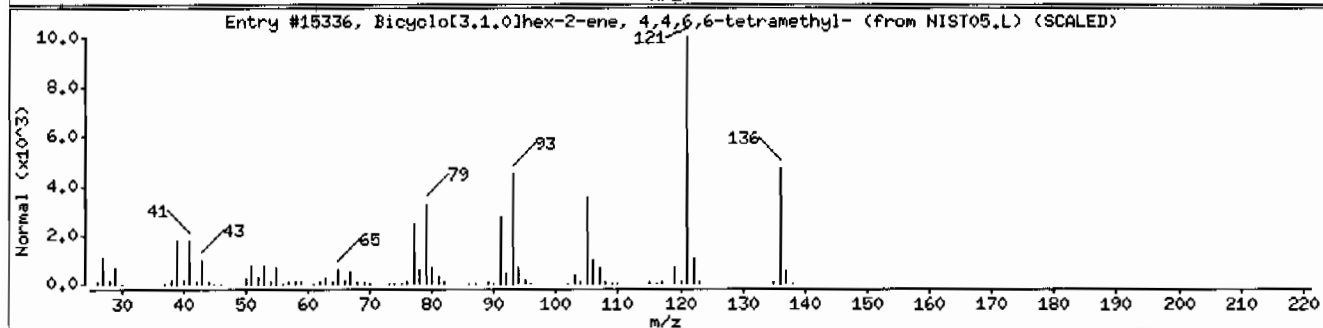
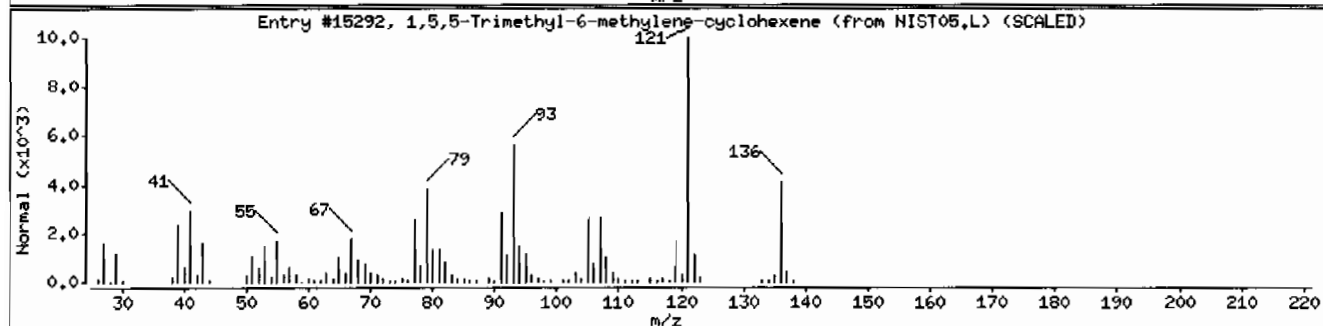
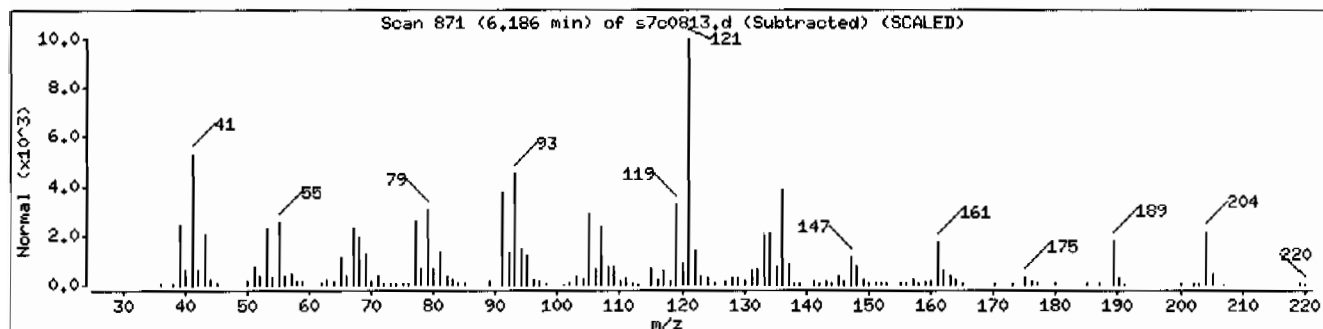
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	83	C10H16	136
Bicyclo[3.1.0]hex-2-ene, 4,4,6,6-tetrame	19487-09-3	NIST05.L	15336	60	C10H16	136
Benzenemethanol, .alpha.,4-dimethyl-	536-50-5	NIST05.L	15961	60	C9H12O	136



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: I247332005I961919I1ISVM11ILANL_rx

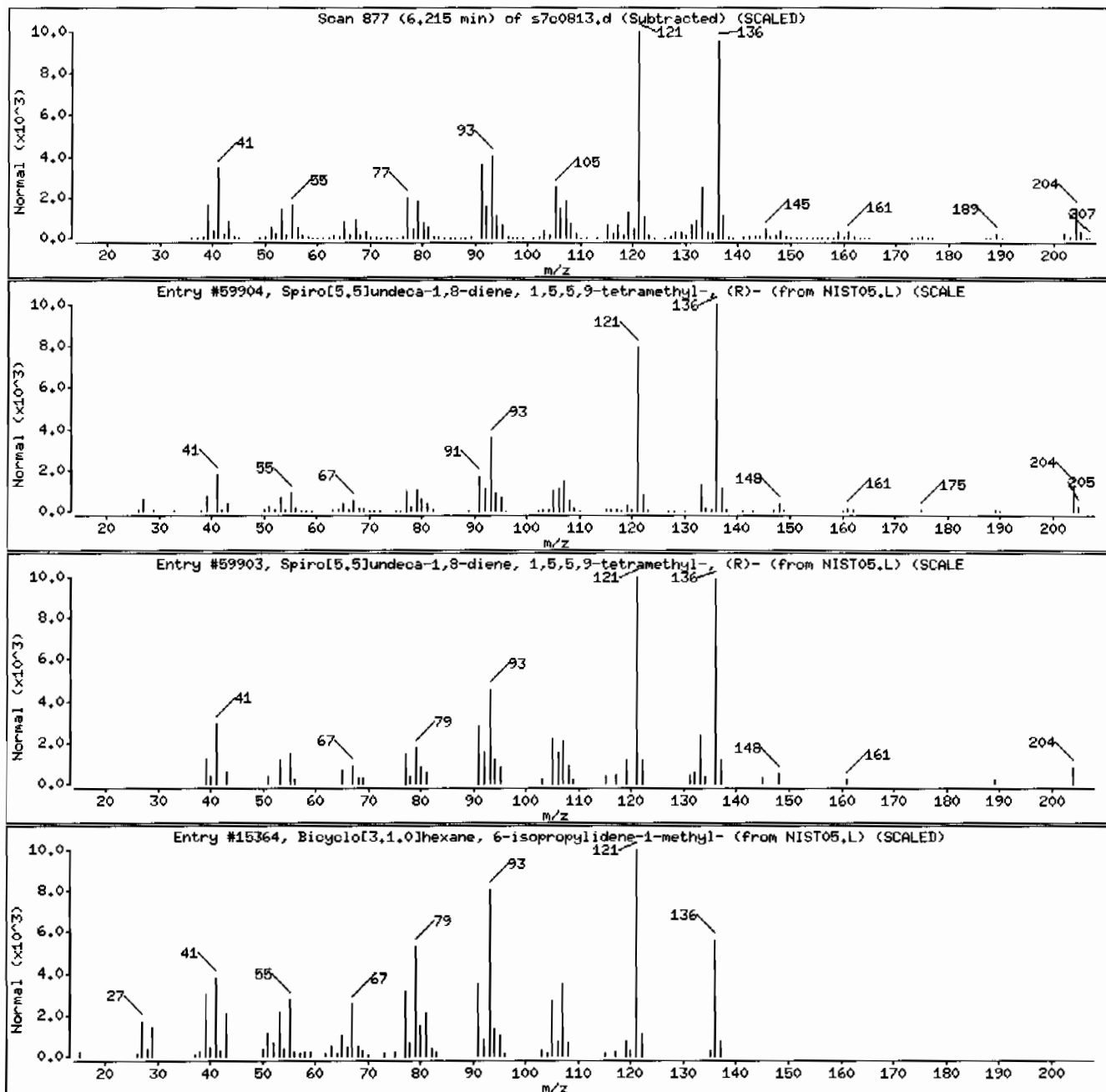
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59904	97	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59903	96	C15H24	204
Bicyclo[3.1.0]hexane, 6-isopropylidene-1	24524-57-0	NIST05.L	15364	81	C10H16	136



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 12473320051961919111SVMI11LANL_rx

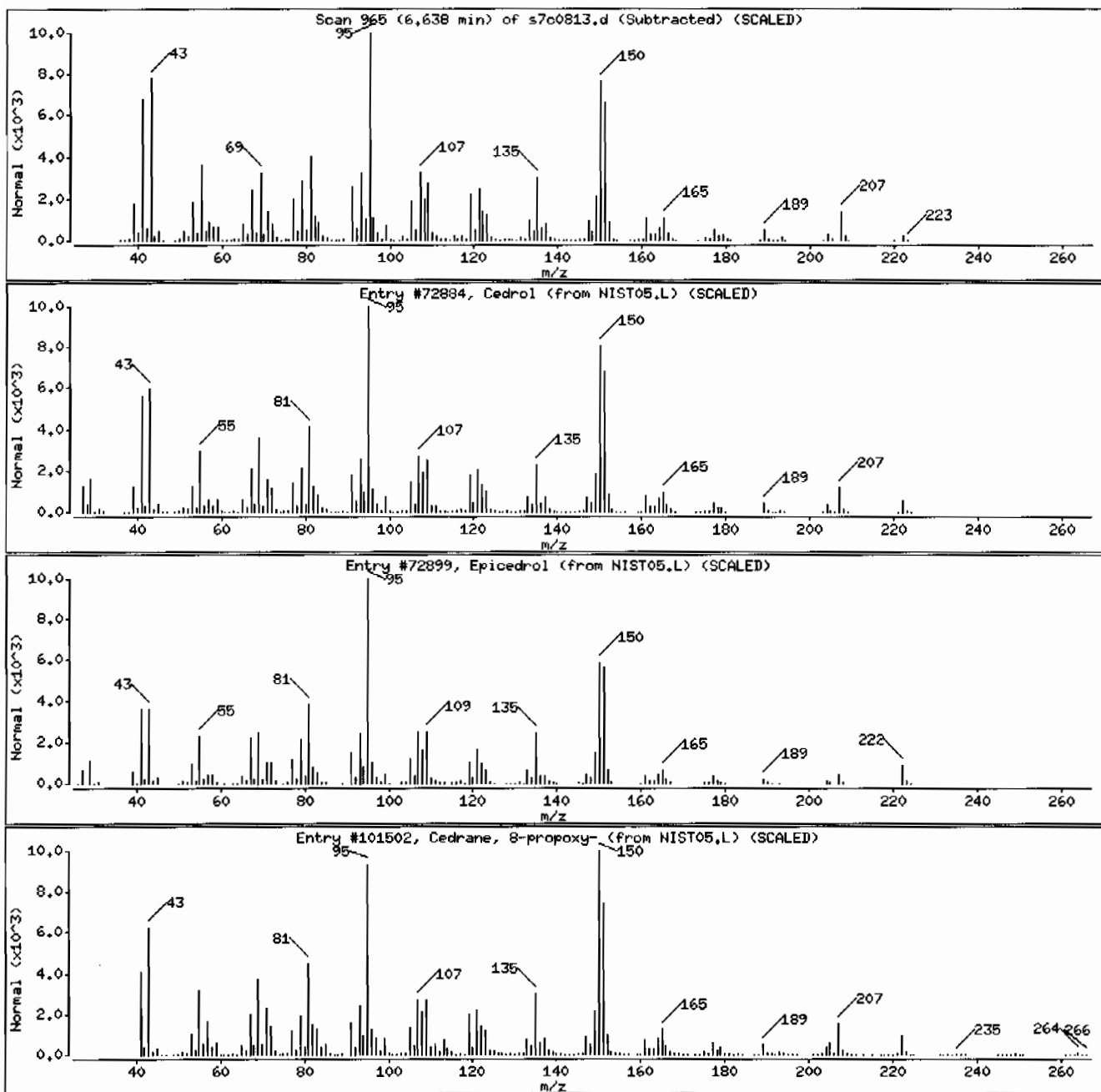
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72884	94	C ₁₅ H ₂₆ O	222
Epicedrol	1000156-22-8	NIST05.L	72899	91	C ₁₅ H ₂₆ O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	91	C ₁₈ H ₃₂ O	264



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 1247332005196191911SVH111LANL_rx

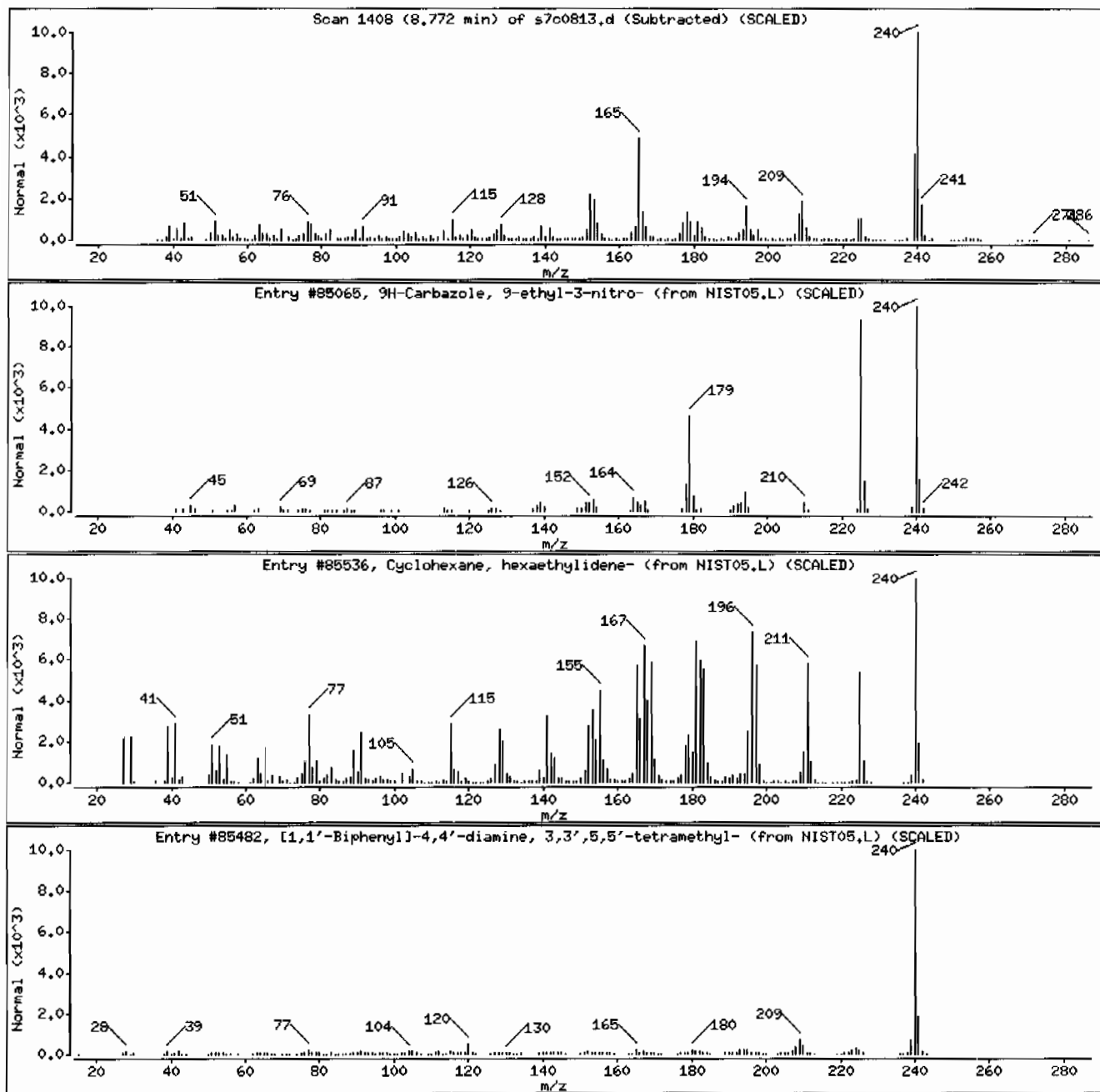
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9H-Carbazole, 9-ethyl-3-nitro-	86-20-4	NIST05.L	85065	60	C ₁₄ H ₁₂ N ₂ O ₂	240
Cyclohexane, hexaethylidene-	1482-93-5	NIST05.L	85536	55	C ₁₈ H ₂₄	240
[1,1'-Biphenyl]-4,4'-diamine, 3,3',5,5'-	54827-17-7	NIST05.L	85482	45	C ₁₆ H ₂₀ N ₂	240



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 124733200519619111SVH111LANL_rx

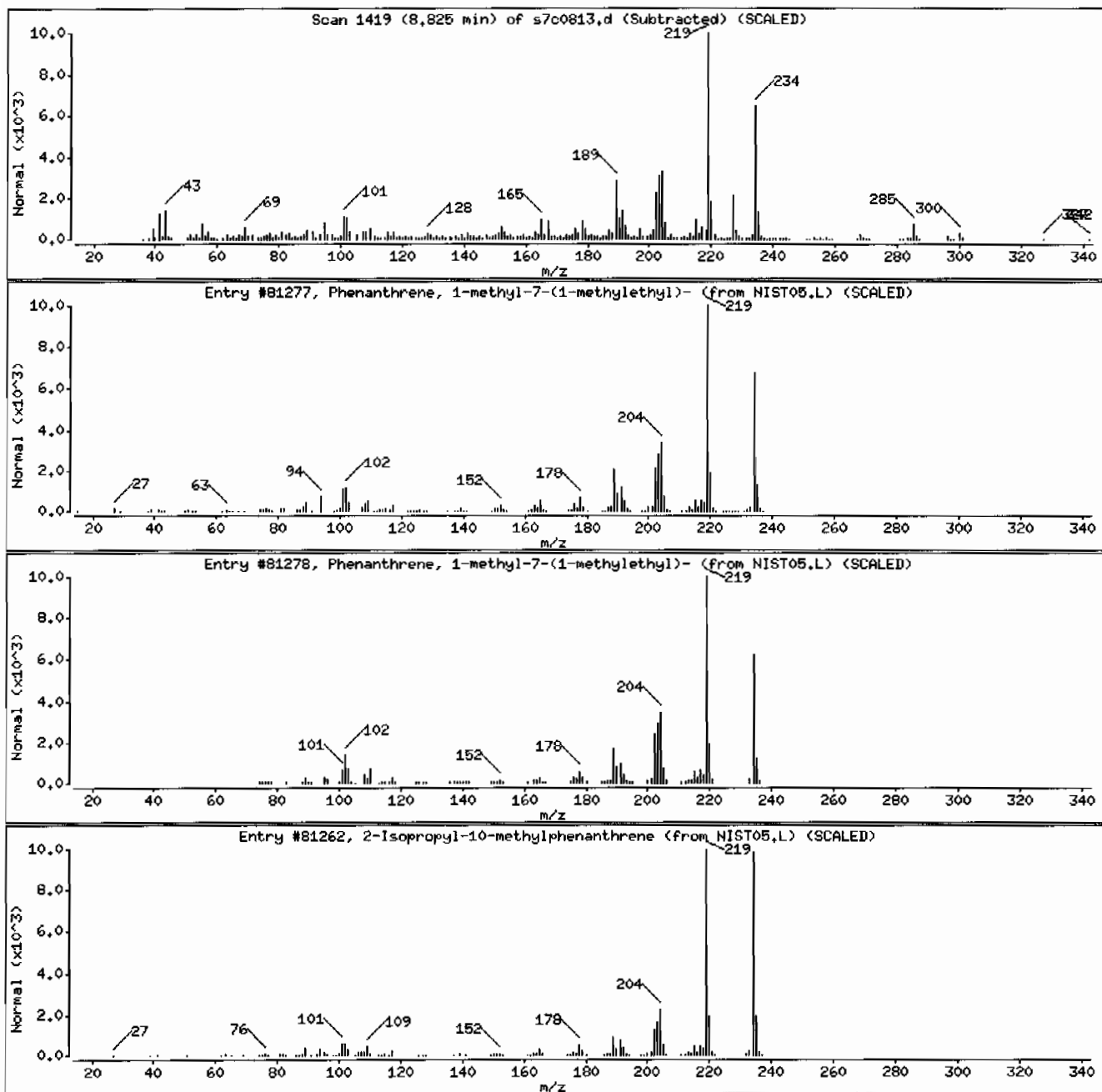
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenanthrene, 1-methyl-7-(1-methylethyl)	483-65-8	NIST05.L	81277	99	C18H18	234
Phenanthrene, 1-methyl-7-(1-methylethyl)	483-65-8	NIST05.L	81278	99	C18H18	234
2-Isopropyl-10-methylphenanthrene	66552-97-4	NIST05.L	81262	94	C18H18	234



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: 1247332005196191911SVMI11LANL_rx

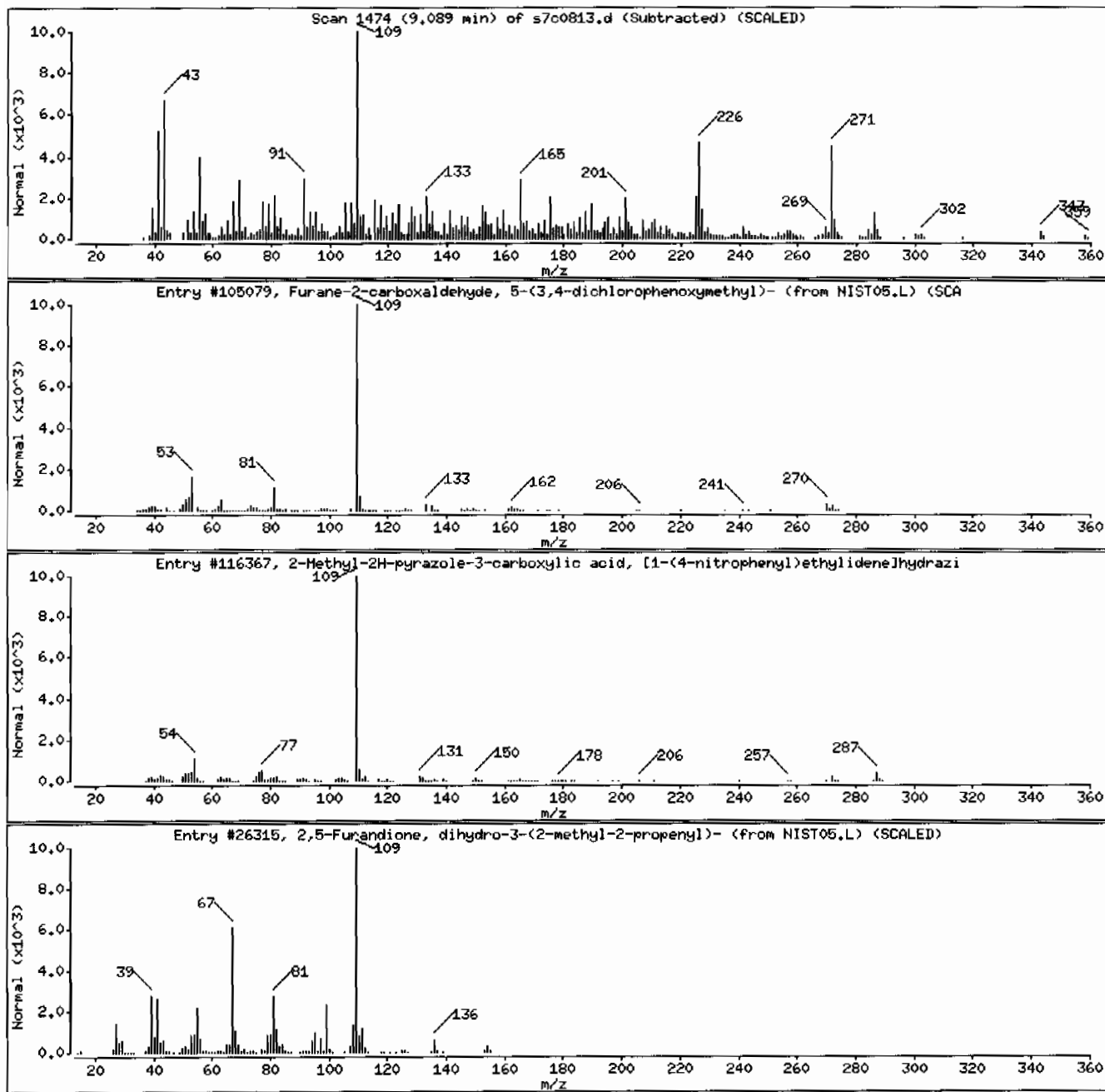
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Furane-2-carboxaldehyde, 5-(3,4-dichloro	1000273-82-2	NIST05.L	105079	18	C12H8Cl2O3	270
2-Methyl-2H-pyrazole-3-carboxylic acid,	1000260-41-7	NIST05.L	116367	18	C13H13N5O3	287
2,5-Furandione, dihydro-3-(2-methyl-2-pr	18908-20-8	NIST05.L	26315	15	C8H10O3	154



Date: 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: HSD7.i

Sample Info: 124733200519619111SVH111LANL_rx

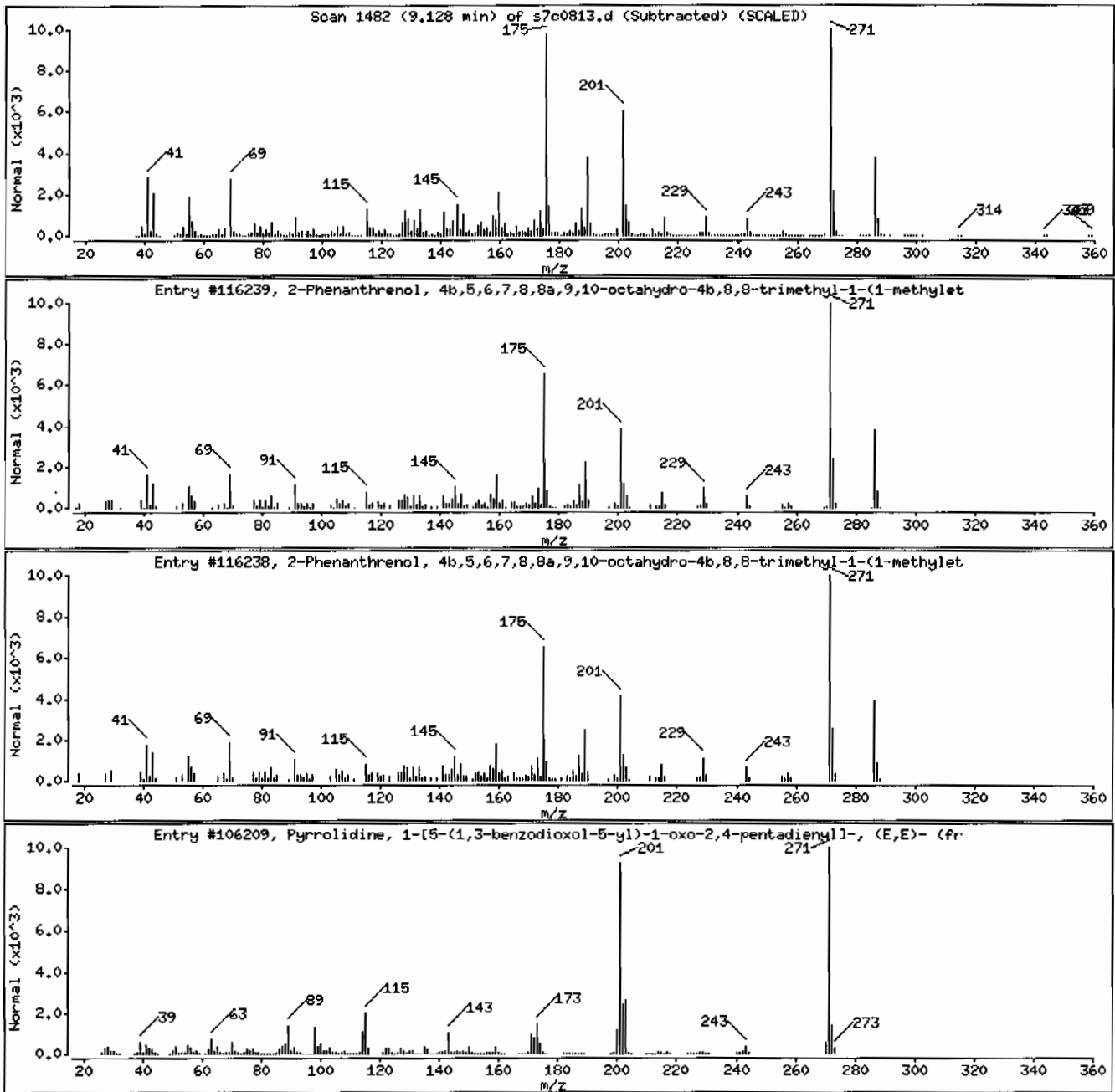
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	94	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)]	25924-78-1	NIST05.L	106209	38	C16H17NO3	271



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: I247332005I961919I1ISVM11ILANL_rx

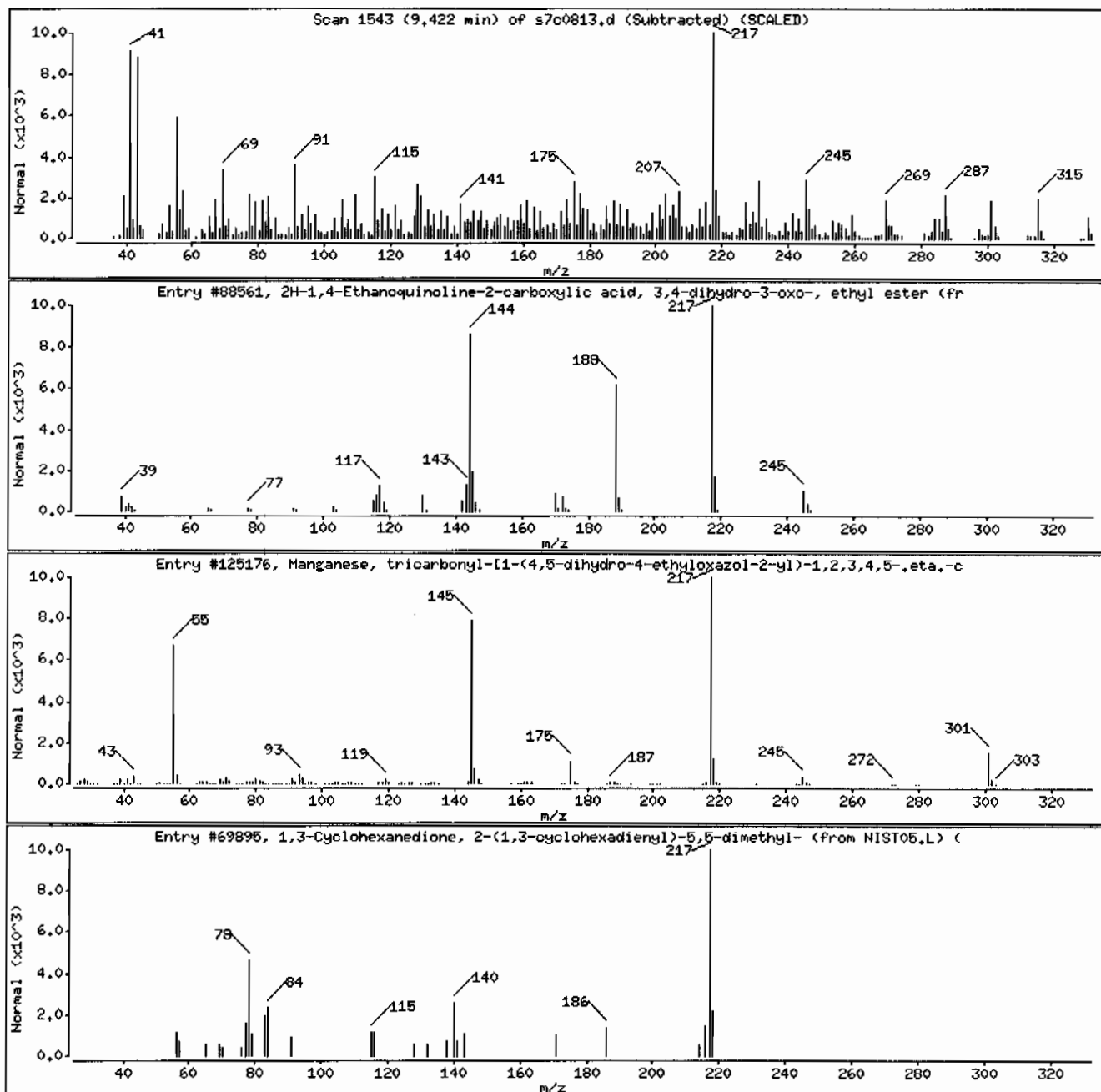
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2H-1,4-Ethanoquinoline-2-carboxylic acid	34291-56-0	NIST05.L	88561	43	C14H15NO3	245
Manganese, tricarbonyl-[1-(4,5-dihydro-4	1000210-70-8	NIST05.L	125176	35	C13H12MnO4	301
1,3-Cyclohexanedione, 2-(1,3-cyclohexadi	54965-48-9	NIST05.L	69895	30	C14H18O2	218



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: HSD7.i

Sample Info: 1247332005196191911SVH111LANL_rx

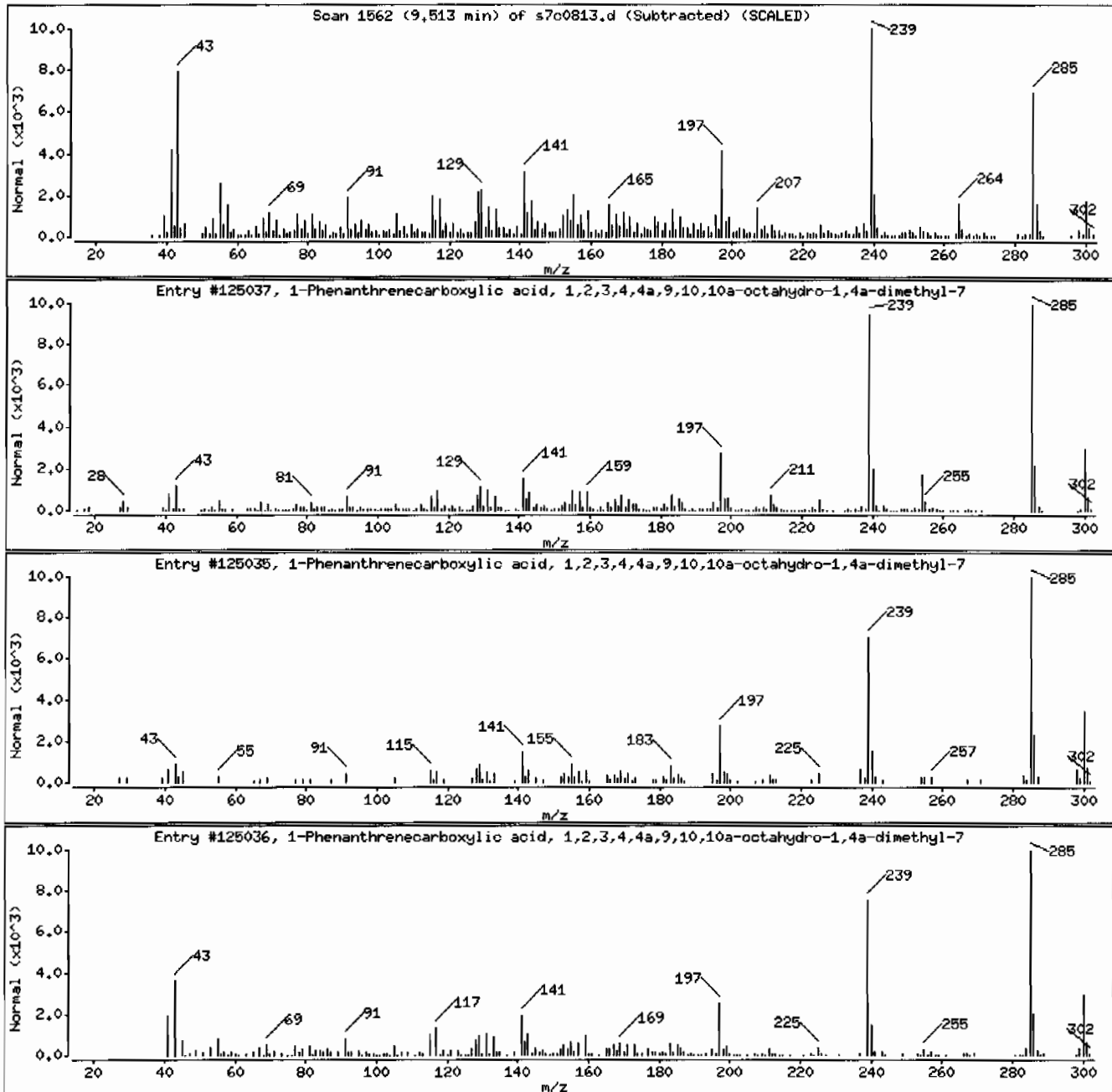
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125037	94	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	5155-70-4	NIST05.L	125035	91	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125036	91	C20H28O2	300



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: I247332005196191911SVH11ILANL_rx

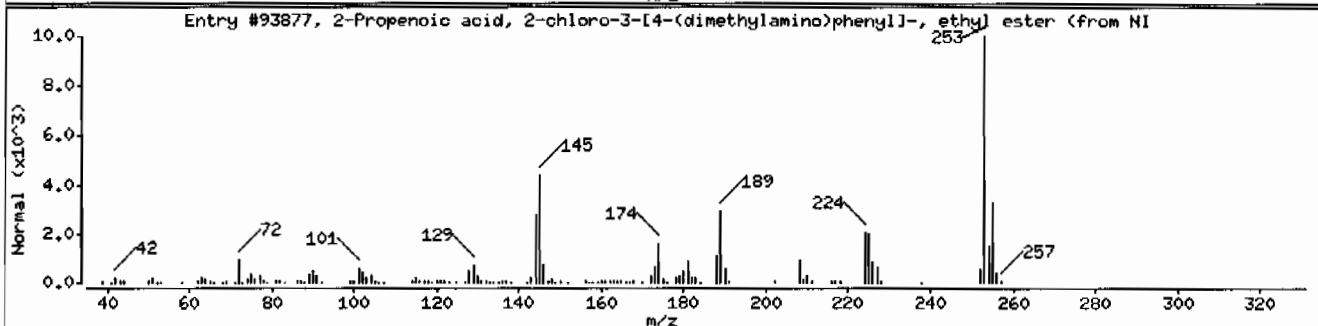
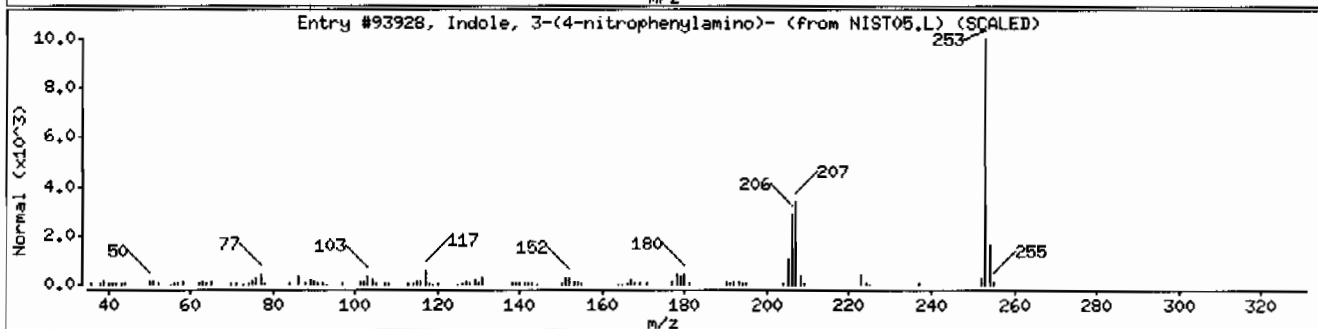
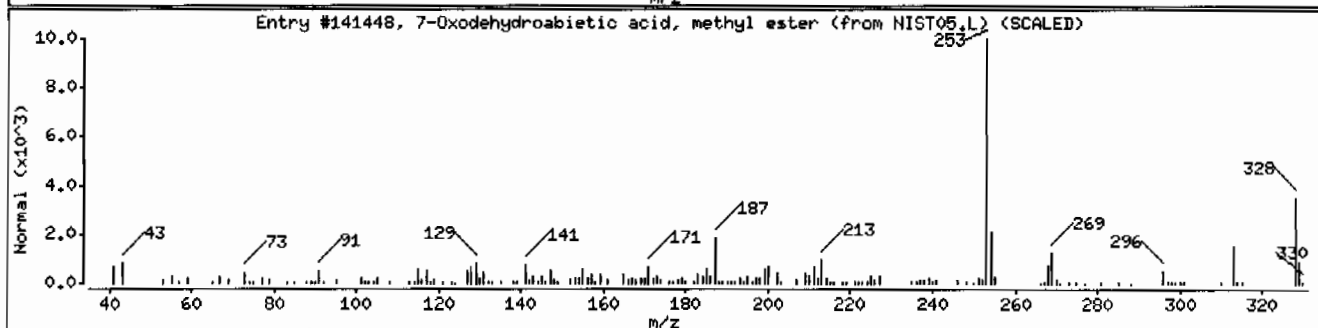
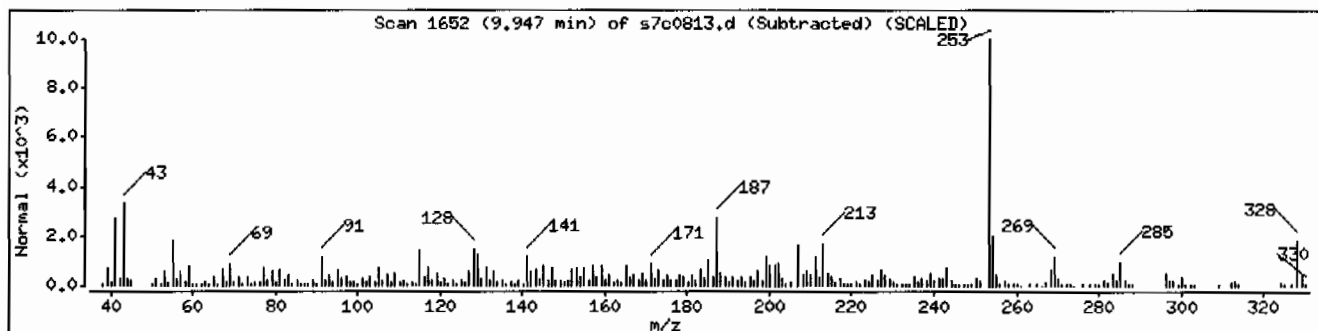
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7-Oxodehydroabiatic acid, methyl ester	110936-78-2	NIST05.L	141448	93	C21H28O3	328
Indole, 3-(4-nitrophenylamino)-	167954-19-0	NIST05.L	93928	55	C14H11N3O2	253
2-Propenoic acid, 2-chloro-3-[4-(dimethy	1000305-67-8	NIST05.L	93877	43	C13H16ClNO2	253



Date : 08-MAR-2010 13:54

Client ID: RE15-10-8345RE

Instrument: MSD7.i

Sample Info: I247332005I961919I1SVMI1ILANL_rx

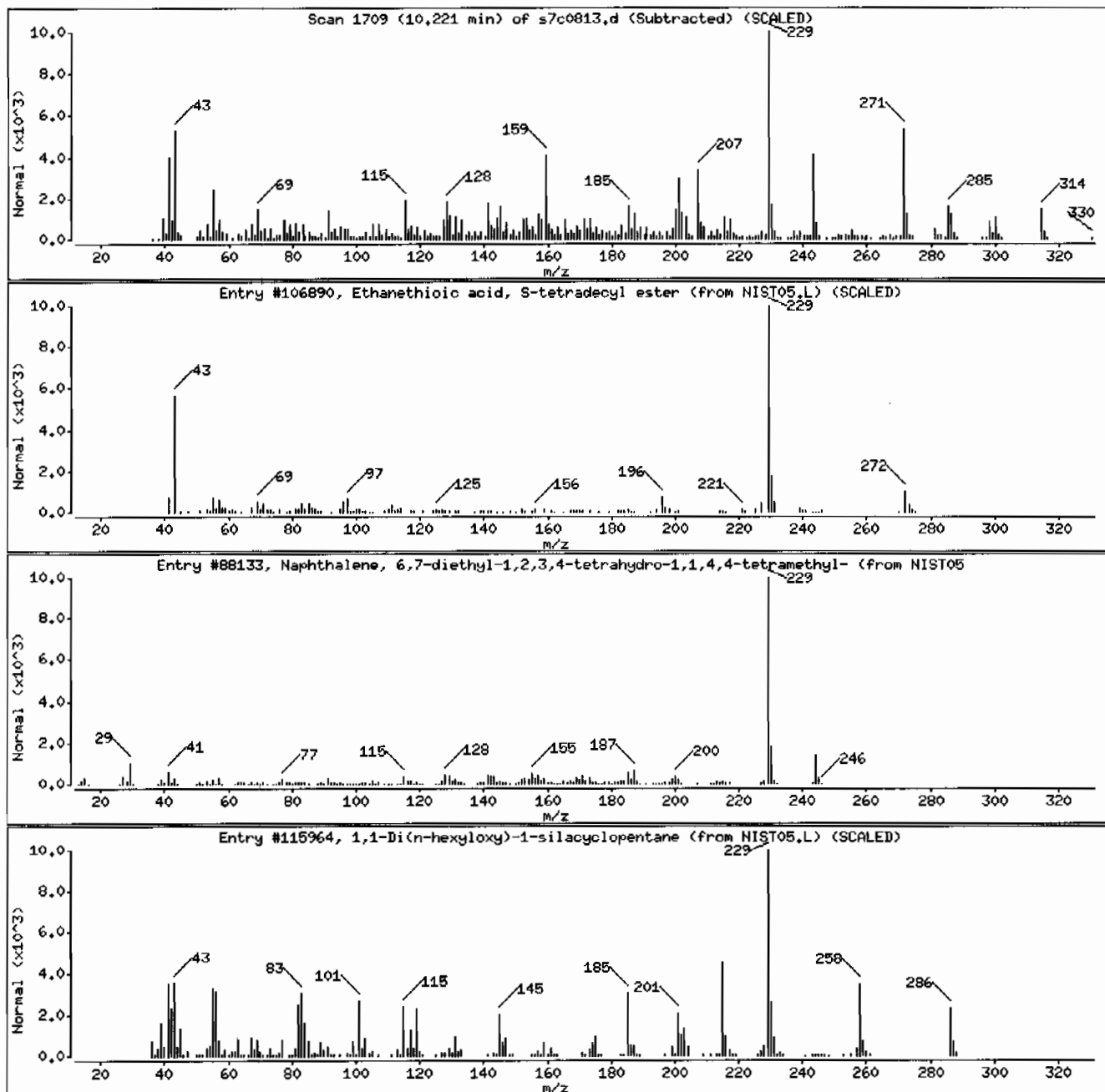
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanoethioic acid, S-tetradecyl ester	90031-26-8	NIST05.L	106890	70	C16H32OS	272
Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	55741-10-1	NIST05.L	88133	49	C18H28	244
1,1-Di(n-hexyloxy)-1-silacyclopentane	1000245-75-2	NIST05.L	115964	25	C16H34O2Si	286



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332002	Date Received: 02/18/2010 08:45	%Moisture: 10.5
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8346	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.1	Dilution: 1
Run Date: 03/04/2010 17:28	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.07 g	Final Volume: 1 mL
Data File: s4c0414.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	372	ug/kg	74.3	372
108-95-2	Phenol	U	372	ug/kg	74.3	372
95-57-8	2-Chlorophenol	U	372	ug/kg	74.3	372
106-46-7	1,4-Dichlorobenzene	U	372	ug/kg	74.3	372
621-64-7	N-Nitrosodipropylamine	U	372	ug/kg	74.3	372
59-50-7	4-Chloro-3-methylphenol	U	372	ug/kg	74.3	372
83-32-9	Acenaphthene	U	37.2	ug/kg	12.3	37.2
121-14-2	2,4-Dinitrotoluene	U	372	ug/kg	37.2	372
100-02-7	4-Nitrophenol	U	372	ug/kg	123	372
87-86-5	Pentachlorophenol	U	372	ug/kg	92.9	372
129-00-0	Pyrene		152	ug/kg	11.2	37.2
110-86-1	Pyridine	U	372	ug/kg	74.3	372
62-53-3	Aniline	U	372	ug/kg	112	372
111-44-4	bis(2-Chloroethyl) ether	U	372	ug/kg	74.3	372
541-73-1	1,3-Dichlorobenzene	U	372	ug/kg	74.3	372
100-51-6	Benzyl alcohol	U	372	ug/kg	112	372
95-50-1	1,2-Dichlorobenzene	U	372	ug/kg	74.3	372
108-60-1	bis(2-Chloroisopropyl)ether	U	372	ug/kg	74.3	372
95-48-7	o-Cresol	U	372	ug/kg	74.3	372
65794-96-9	m,p-Cresols	U	372	ug/kg	112	372
67-72-1	Hexachloroethane	U	372	ug/kg	74.3	372
98-95-3	Nitrobenzene	U	372	ug/kg	74.3	372
78-59-1	Isophorone	U	372	ug/kg	74.3	372
88-75-5	2-Nitrophenol	U	372	ug/kg	74.3	372
105-67-9	2,4-Dimethylphenol	U	372	ug/kg	130	372
111-91-1	bis(2-Chloroethoxy)methane	U	372	ug/kg	74.3	372
120-83-2	2,4-Dichlorophenol	U	372	ug/kg	74.3	372
65-85-0	Benzoic acid	U	743	ug/kg	186	743
91-20-3	Naphthalene	U	37.2	ug/kg	11.2	37.2
106-47-8	4-Chloroaniline	U	372	ug/kg	74.3	372
87-68-3	Hexachlorobutadiene	U	372	ug/kg	74.3	372
91-57-6	2-Methylnaphthalene	U	37.2	ug/kg	7.43	37.2
77-47-4	Hexachlorocyclopentadiene	U	372	ug/kg	74.3	372
88-06-2	2,4,6-Trichlorophenol	U	372	ug/kg	74.3	372
95-95-4	2,4,5-Trichlorophenol	U	372	ug/kg	74.3	372
91-58-7	2-Chloronaphthalene	U	37.2	ug/kg	12.3	37.2
88-74-4	2-Nitroaniline	U	372	ug/kg	74.3	372
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	372	ug/kg	74.3	372

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332002	Date Received: 02/18/2010 08:45	%Moisture: 10.5
Client ID: RE15-10-8346	Client: LANL010	Project: LANL01004
Batch ID: 956285	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/04/2010 17:28	Inst: MSD4J	Dilution: 1
Prep Date: 02/23/2010 10:34	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4c0414.d	Aliquot: 30.07 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	372	ug/kg	74.3	372
606-20-2	2,6-Dinitrotoluene	U	372	ug/kg	37.2	372
208-96-8	Acenaphthylene	U	37.2	ug/kg	11.2	37.2
51-28-5	2,4-Dinitrophenol	U	743	ug/kg	141	743
132-64-9	Dibenzofuran	U	372	ug/kg	74.3	372
84-66-2	Diethylphthalate	U	372	ug/kg	74.3	372
86-73-7	Fluorene	J	15.4	ug/kg	11.2	37.2
7005-72-3	4-Chlorophenylphenylether	U	372	ug/kg	74.3	372
534-52-1	2-Methyl-4,6-dinitrophenol	U	372	ug/kg	74.3	372
100-01-6	4-Nitroaniline	U	372	ug/kg	112	372
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	372	ug/kg	74.3	372
122-66-7	Azobenzene	U	372	ug/kg	74.3	372
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	372	ug/kg	74.3	372
118-74-1	Hexachlorobenzene	U	372	ug/kg	74.3	372
85-01-8	Phenanthrene		189	ug/kg	11.2	37.2
120-12-7	Anthracene	J	31.0	ug/kg	7.43	37.2
84-74-2	Di-n-butylphthalate	U	372	ug/kg	74.3	372
206-44-0	Fluoranthene		226	ug/kg	11.2	37.2
85-68-7	Butylbenzylphthalate	U	372	ug/kg	74.3	372
56-55-3	Benzo(a)anthracene		101	ug/kg	11.2	37.2
91-94-1	3,3'-Dichlorobenzidine	U	372	ug/kg	112	372
218-01-9	Chrysene		81.4	ug/kg	11.2	37.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	372	ug/kg	74.3	372
117-84-0	Di-n-octylphthalate	U	372	ug/kg	74.3	372
205-99-2	Benzo(b)fluoranthene		111	ug/kg	11.2	37.2
207-08-9	Benzo(k)fluoranthene	U	37.2	ug/kg	11.2	37.2
50-32-8	Benzo(a)pyrene		59.6	ug/kg	11.2	37.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	32.4	ug/kg	11.2	37.2
53-70-3	Dibenzo(a,h)anthracene	U	37.2	ug/kg	11.2	37.2
191-24-2	Benzo(ghi)perylene	J	34.6	ug/kg	11.2	37.2
120-82-1	1,2,4-Trichlorobenzene	U	372	ug/kg	74.3	372

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	2190	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.4	390	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332002

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.J
Analyst: JMB3
Aliquot: 30.07 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 10.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
39029-41-9	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	5.57	164	ug/kg	93	NJ
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	1190	ug/kg	86	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	4240	ug/kg	97	NJ
5794-03-6	Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5.84	630	ug/kg	83	NJ
	Unknown	5.88	154	ug/kg		J
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	517	ug/kg	94	NJ
77-53-2	Cedrol	6.4	2000	ug/kg	94	NJ
56324-68-6	1H-Indene, 1-ethylideneoctahydro-7a-meth	6.51	209	ug/kg	91	NJ
	Unknown	6.81	274	ug/kg		J
	Unknown	7.06	155	ug/kg		J
	Unknown	7.72	151	ug/kg		J
	Unknown	8.03	232	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	9350	ug/kg	99	NJ
	Unknown	8.94	1290	ug/kg		J

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Data file : /chem/MSD4.i/s030410a.b/s4c0414.d
Lab Smp Id: 247332002 Client Smp ID: RE15-10-8346
Inj Date : 04-MAR-2010 17:28
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332002|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.07000	weight of sample
M	10.53080	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829	(1.000)	142600	40.0000	
* 29 Naphthalene-d8	136	4.690	4.690	(1.000)	519998	40.0000	
* 46 Acenaphthene-d10	164	5.941	5.941	(1.000)	318300	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936	(1.000)	523222	40.0000	
* 91 Chrysene-d12	240	8.605	8.610	(1.000)	406728	40.0000	
* 98 Perylene-d12	264	10.060	10.070	(1.000)	287939	40.0000	
\$ 3 2-Fluorophenol	112	3.032	3.021	(0.793)	173705	52.3668	1950
\$ 5 Phenol-d5	99	3.540	3.545	(0.926)	215357	52.0268	1930
\$ 20 Nitrobenzene-d5	82	4.182	4.192	(0.892)	82259	22.1893	825
\$ 39 2-Fluorobiphenyl	172	5.433	5.433	(0.914)	208531	24.3958	907
\$ 60 2,4,6-Tribromophenol	329	6.481	6.481	(1.091)	53729	57.4278	2130
\$ 81 p-Terphenyl-d14	244	7.861	7.861	(0.914)	281165	43.3345	1610

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
79 Pyrene	202	7.808	7.813	(0.907)	44645	4.09633	152
53 Fluorene	166	6.316	6.321	(1.063)	3419	0.41362	15.4 (a)
68 Phenanthrene	178	6.947	6.952	(1.002)	59104	5.08785	189
69 Anthracene	178	6.979	6.984	(1.006)	9314	0.83301	31.0 (a)
76 Fluoranthene	202	7.664	7.669	(1.105)	63167	6.08234	226
89 Benzo(a)anthracene	228	8.594	8.600	(0.999)	25396	2.71912	101
92 Chrysene	228	8.621	8.632	(1.002)	19393	2.18974	81.4
95 Benzo(b)fluoranthene	252	9.589	9.600	(0.953)	21928	2.99443	111
97 Benzo(a)pyrene	252	9.985	10.001	(0.993)	9326	1.60254	59.6
99 Indeno(1,2,3-cd)pyrene	276	11.664	11.702	(1.159)	4169	0.87071	32.4 (a)
101 Benzo(ghi)perylene	276	12.178	12.204	(1.211)	3594	0.93049	34.6 (a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ION RATIO REPORT

SV REPORT

Data file: s4c0414.d

Report Date: 03/05/2010 07:55

Lab. ID: 247332002

SampleType: SAMPLE

Injection Date: 04-MAR-2010 17:28

Operator: JMB3

Instrument: MSD4.i

Sample Info: |247332002|956285|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	11079	3.54	3.61	80-120	100	(T)
93	164	3.50	3.61	453-513	1	(QT)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	11359	4.18	4.07	80-120	100	(T)
42	5743	4.18	4.07	27- 87	51	(T)

27	Benzoic acid		CAS#: 65-85-0			
105	612	4.69	4.48	80-120	100	(T)
122	126	4.69	4.48	56-116	21	(QT)
77	2123	4.68	4.48	49-109	347	(QT)

40	2-Chloronaphthalene		CAS#: 91-58-7			
162	2517	5.48	5.54	80-120	100	()
164	3554	5.67	5.54	3- 63	141	(QT)
127	81	5.48	5.54	8- 68	3	(QT)

42	o-Nitroaniline		CAS#: 88-74-4			
65	16078	5.64	5.60	80-120	100	()
92	54577	5.64	5.60	35- 95	339	(Q)
138	6108	5.67	5.60	79-139	38	(QT)

41	m-Nitroaniline		CAS#: 99-09-2			
138	6108	5.67	5.90	80-120	100	(T)
92	132293	5.67	5.90	79-139	2166	(QT)
108	109194	5.67	5.90	0- 59	1787	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
43 Dimethylphthalate				CAS#: 131-11-3		
163	30311	5.67	5.71	80-120	100	()
164	3554	5.67	5.71	0- 40	12	()

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	41868	5.94	5.77	80-120	100	(T)
63	1474	5.93	5.77	53-113	4	(QT)

45 Acenaphthylene				CAS#: 208-96-8		
152	4851	5.84	5.84	80-120	100	()
151	1204	5.84	5.84	0- 50	25	()
153	666	5.84	5.84	0- 43	14	()

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	41868	5.94	6.05	80-120	100	(T)
89	1091	5.94	6.05	53-113	3	(QT)
63	1474	5.93	6.05	24- 84	4	(QT)

51 Diethylphthalate				CAS#: 84-66-2		
149	45536	6.40	6.20	80-120	100	(T)
177	11429	6.40	6.20	0- 52	25	(T)
150	174669	6.40	6.20	0- 42	384	(QT)

52 4-Nitrophenol				CAS#: 100-02-7		
139	232	6.02	5.99	80-120	100	()
109	1412	6.02	5.99	37- 97	607	(Q)
65	6485	6.02	5.99	67-127	2787	(Q)

53 Fluorene				CAS#: 86-73-7		
166	3419	6.32	6.32	80-120	100	()
165	3264	6.32	6.32	62-122	95	()
167	498	6.32	6.32	0- 44	15	()

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	129	6.48	6.34	80-120	100	(T)
105	3881	6.51	6.34	16- 76	2993	(QT)
51	614	6.48	6.34	35- 95	474	(QT)

58 1,2-Diphenylhydrazine				CAS#: 122-66-7		
77	43169	6.40	6.41	80-120	100	()
105	41267	6.40	6.41	0- 46	96	(Q)
182	850	6.42	6.41	0- 55	2	()

68 Phenanthrene				CAS#: 85-01-8		
178	59104	6.95	6.95	80-120	100	()
179	9969	6.95	6.95	0- 46	17	()
176	11766	6.95	6.95	0- 49	20	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
69 Anthracene		CAS#: 120-12-7				
178	9314	6.98	6.98	80-120	100	()
179	2072	6.98	6.98	0- 46	22	()
176	1785	6.98	6.98	0- 49	19	()

76 Fluoranthene		CAS#: 206-44-0				
202	63167	7.66	7.67	80-120	100	()
203	10912	7.66	7.67	0- 48	17	()
101	8112	7.66	7.67	0- 42	13	()

79 Pyrene		CAS#: 129-00-0				
202	44645	7.81	7.81	80-120	100	()
200	8930	7.81	7.81	0- 51	20	()
101	6962	7.80	7.81	0- 44	16	()

85 Butylbenzylphthalate		CAS#: 85-68-7				
149	20309	8.13	8.13	80-120	100	()
91	59373	8.13	8.13	40-100	292	(Q)
206	448	8.13	8.13	0- 51	2	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	25396	8.59	8.60	80-120	100	()
226	7213	8.60	8.60	0- 56	28	()
229	8223	8.59	8.60	0- 50	32	()

92 Chrysene		CAS#: 218-01-9				
228	19393	8.62	8.63	80-120	100	()
229	5311	8.62	8.63	0- 50	27	()
226	6167	8.62	8.63	0- 59	32	()

94 Di-n-octylphthalate		CAS#: 117-84-0				
149	311	9.00	9.02	80-120	100	()
43	26564	8.94	9.02	0- 40	8521	(QT)

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	21928	9.59	9.60	80-120	100	()
253	5505	9.59	9.60	0- 52	25	()
125	3252	9.59	9.60	0- 42	15	()

96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	21928	9.59	9.63	80-120	100	()
253	5505	9.59	9.63	0- 52	25	()
125	3252	9.59	9.63	0- 41	15	()

97 Benzo(a)pyrene		CAS#: 50-32-8				
252	9326	9.98	10.00	80-120	100	()
253	2283	9.98	10.00	0- 52	24	()
125	1598	9.98	10.00	0- 43	17	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
99	Indeno(1,2,3-cd)pyrene			CAS#: 193-39-5		
276	4169	11.66	11.70	80-120	100	()
138	1084	11.66	11.70	0- 59	26	()

101	Benzo(ghi)perylene			CAS#: 191-24-2		
276	3594	12.18	12.20	80-120	100	()
138	879	12.17	12.20	0- 55	24	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD4.i/s030410a.b/s4c0414.d
 Lab Smp Id: 247332002 Client Smp ID: RE15-10-8346
 Inj Date : 04-MAR-2010 17:28
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |247332002|956285|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
 Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.07000	weight of sample
M	10.53080	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.823	858009	40.000
* 46 Acenaphthene-d10	5.941	1834016	40.000
* 67 Phenanthrene-d10	6.936	1490601	40.000
* 91 Chrysene-d12	8.605	1237708	40.000

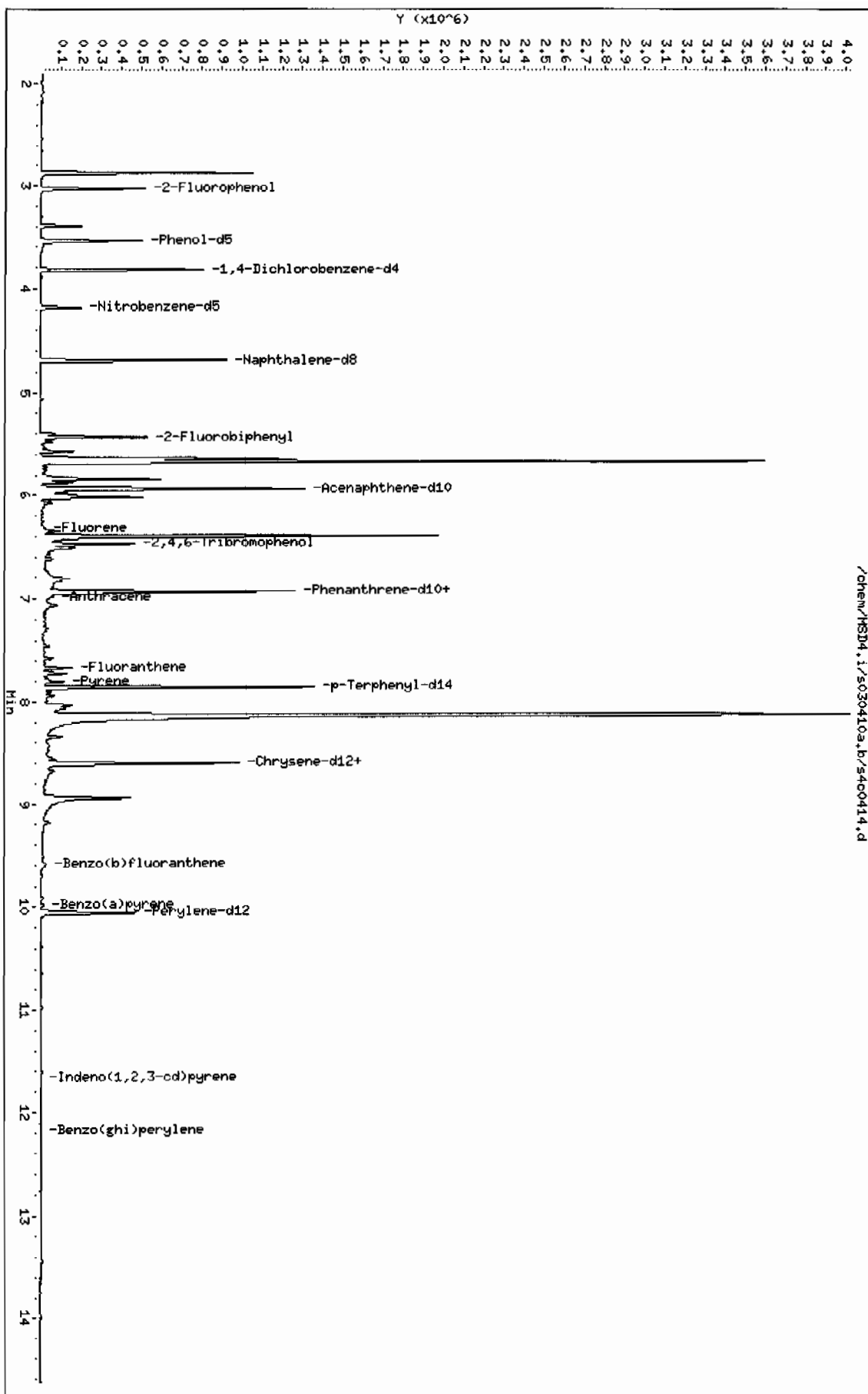
CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CFND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.871	1265288	58.9871138	2190	0		0	10
1R-.alpha.-Pinene					CAS #: 7785-70-8		
3.401	225261	10.5015812	390	96	NIST05.L	15188	10
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro					CAS #: 39029-41-9		
5.567	202902	4.42529394	164	93	NIST05.L	60057	46
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6					CAS #: 5989-08-2		
5.642	1467054	31.9965285	1190	86	NIST05.L	59909	46
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.674	5224689	113.950769	4240	97	NIST05.L	60018	46
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me					CAS #: 5794-03-6		
5.840	776865	16.9434780	630	83	NIST05.L	15386	46
Unknown					CAS #:		
5.877	189590	4.13496154	154	0		0	46
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr					CAS #: 19912-83-5		
6.016	637812	13.9107141	517	94	NIST05.L	59904	46
Cedrol					CAS #: 77-53-2		
6.401	2462669	53.7109433	2000	94	NIST05.L	72884	46
1H-Indene, 1-ethylideneoctahydro-7a-meth					CAS #: 56324-68-6		
6.514	209606	5.62472768	209	91	NIST05.L	32242	67
Unknown					CAS #:		
6.808	274849	7.37550834	274	0		0	67
Unknown					CAS #:		
7.064	154936	4.15766999	154	0		0	67
Unknown					CAS #:		
7.722	151496	4.06536807	151	0		0	67
Unknown					CAS #:		
8.033	192995	6.23718384	232	0		0	91
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.134	7780334	251.443160	9350	99	NIST05.L	116239	91

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
8.942	1077739	34.8301438	1290	0		0	91

Data File: /chem/HSD4.i/s030410a.b/s400414.d
 Date: 04-MAR-2010 17:28
 Client ID: RE15-10-8346
 Sample Info: 1247332002195628511SVH11LNL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD4.i
 Operator: JHB3
 Column diameter: 0.20



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 12473320021956285111SVH111LANL

Volume Injected (uL): 0.5

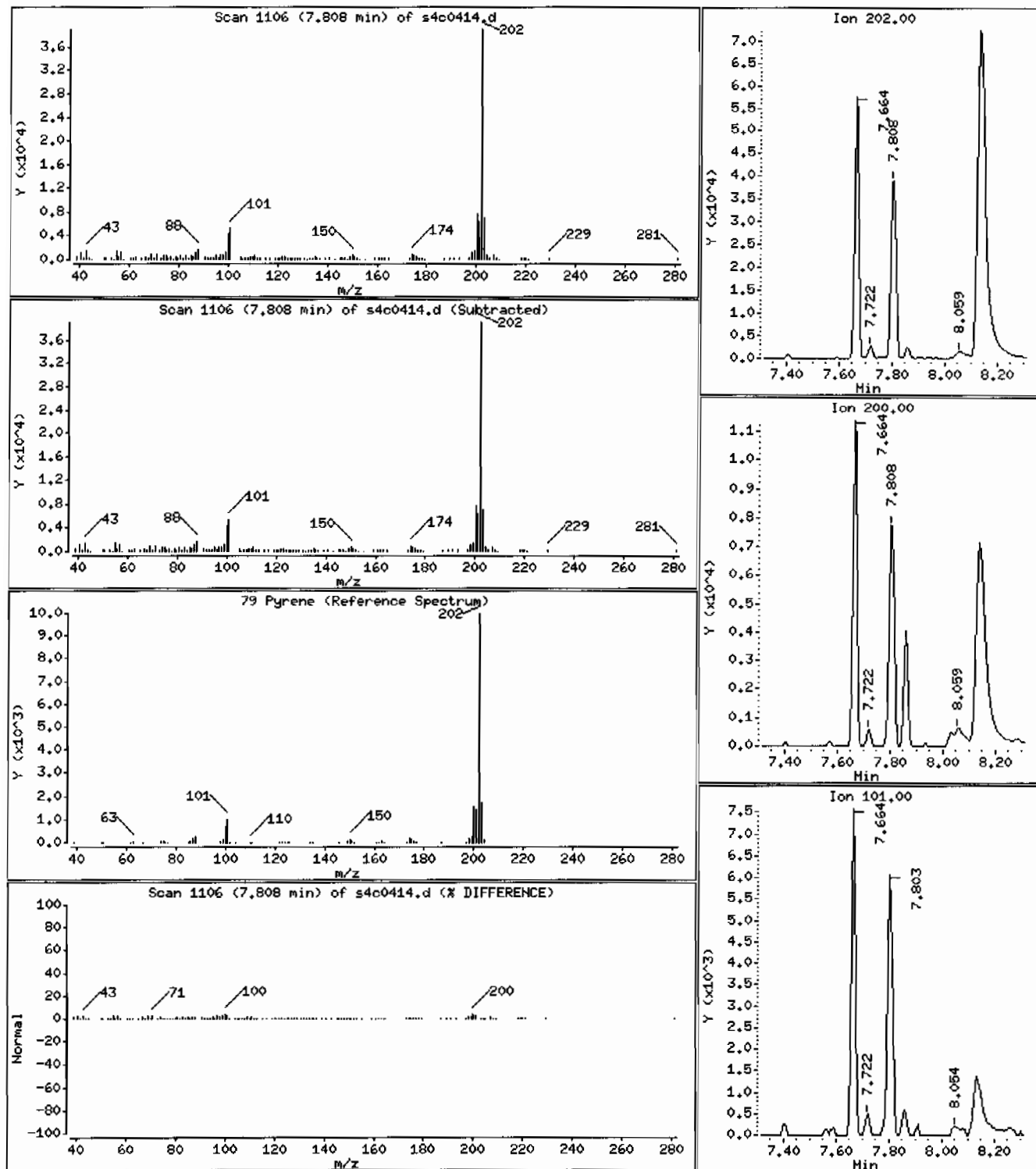
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 152 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511ISVH11LANL

Volume Injected (uL): 0.5

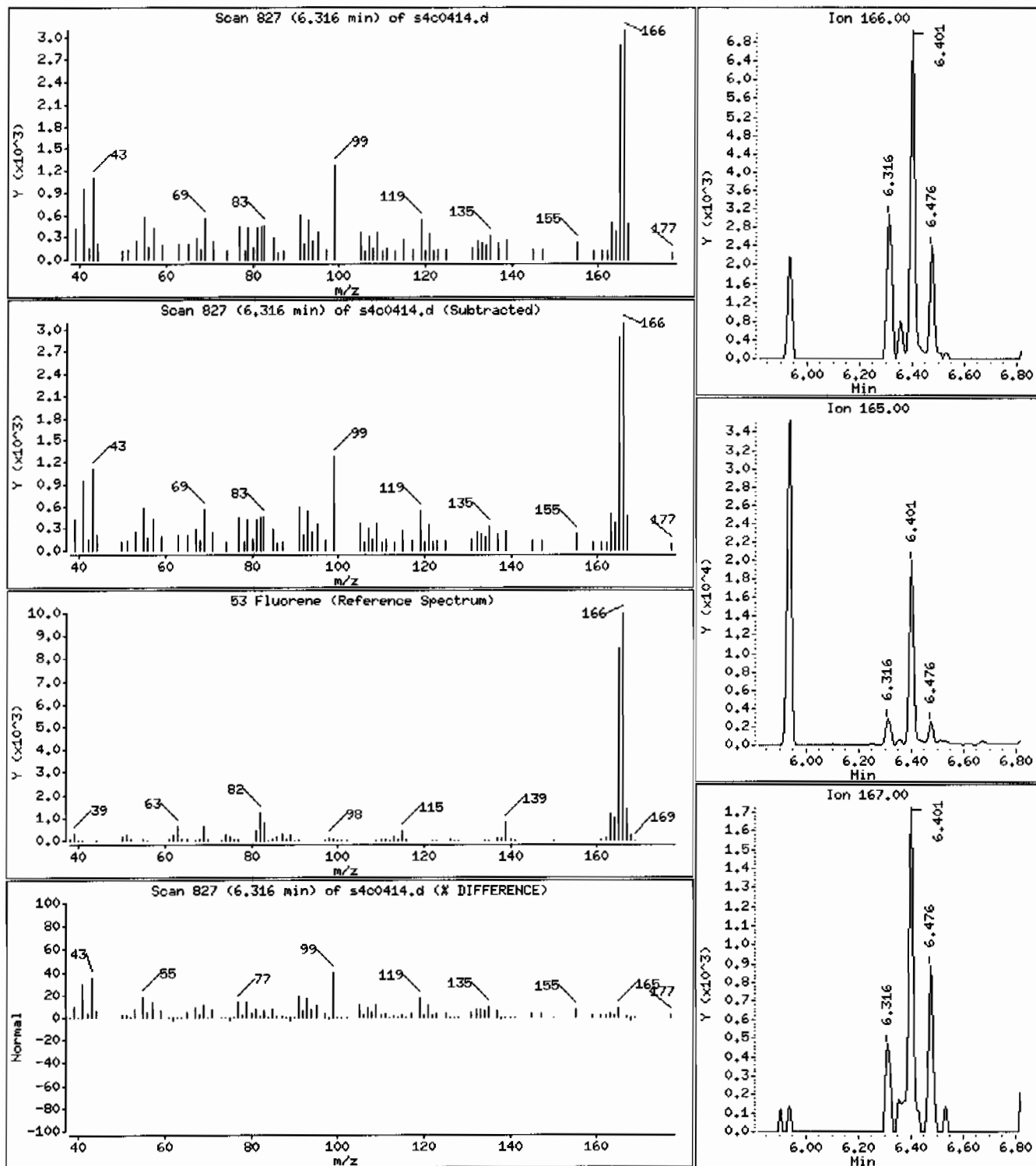
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

53 Fluorene

Concentration: 15.4 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH111LANL

Volume Injected (uL): 0.5

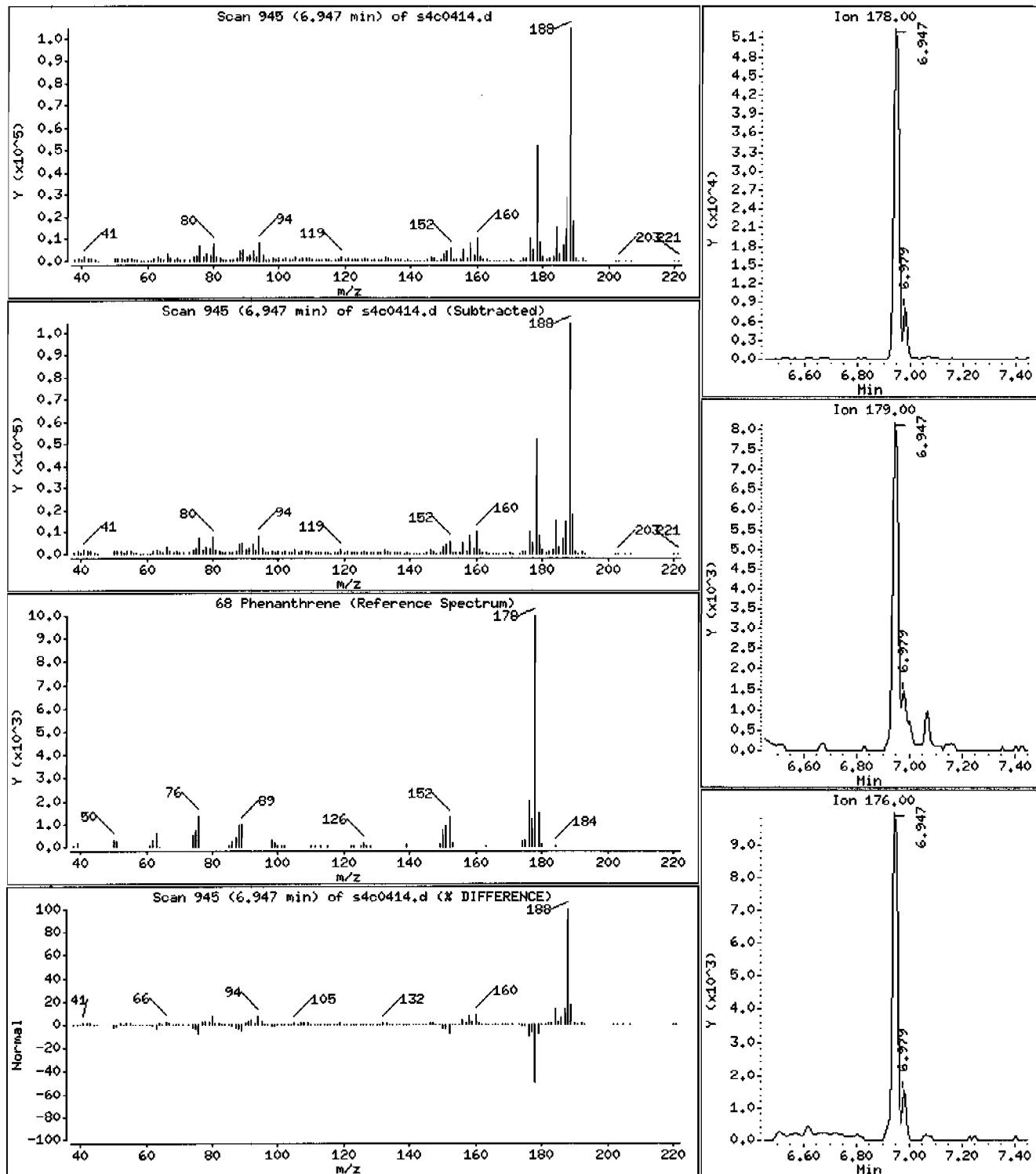
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 189 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 1247332002195628511ISVM111LANL

Volume Injected (uL): 0.5

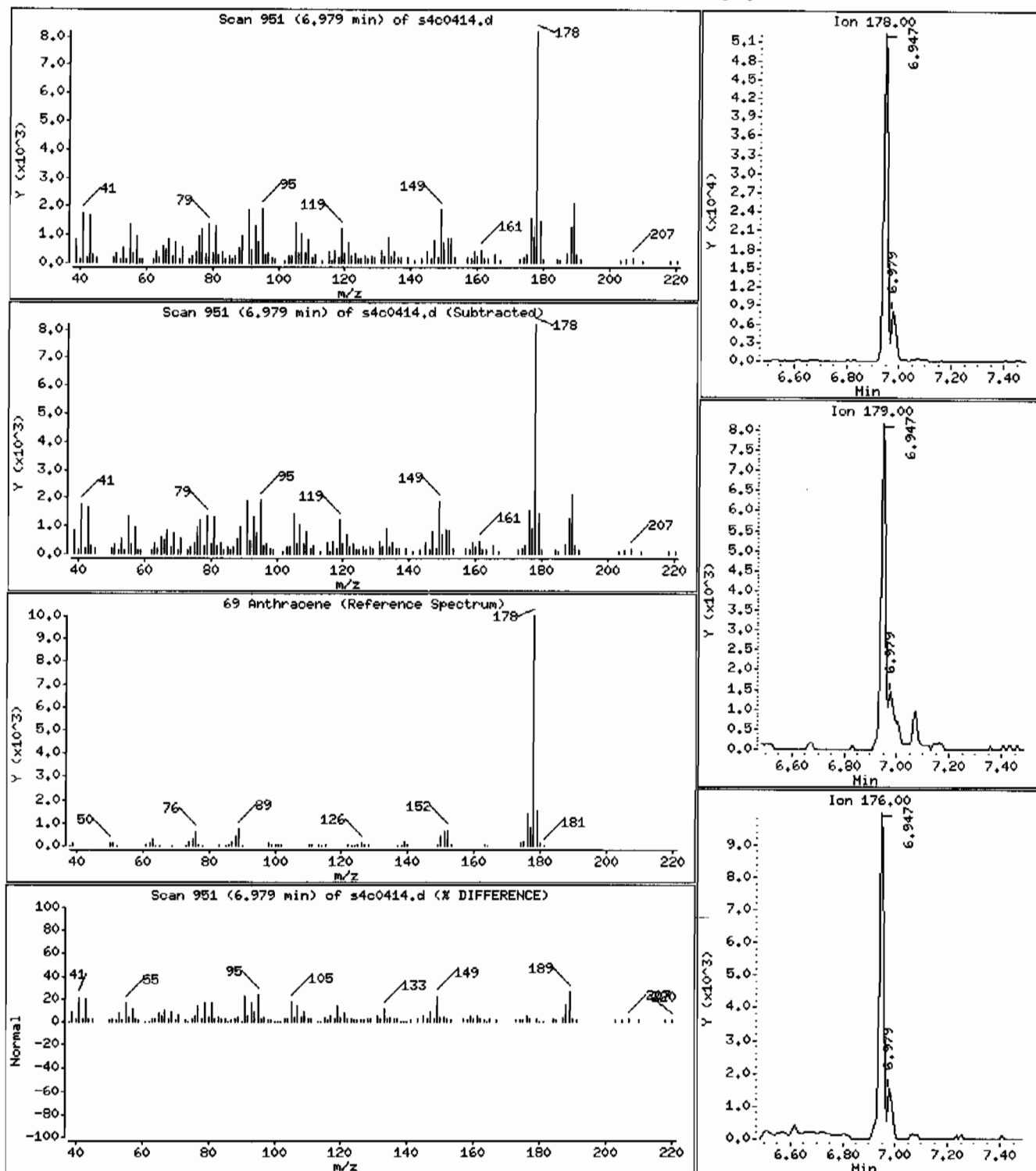
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 31.0 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 1247332002195628511SVMI11LANL

Volume Injected (uL): 0.5

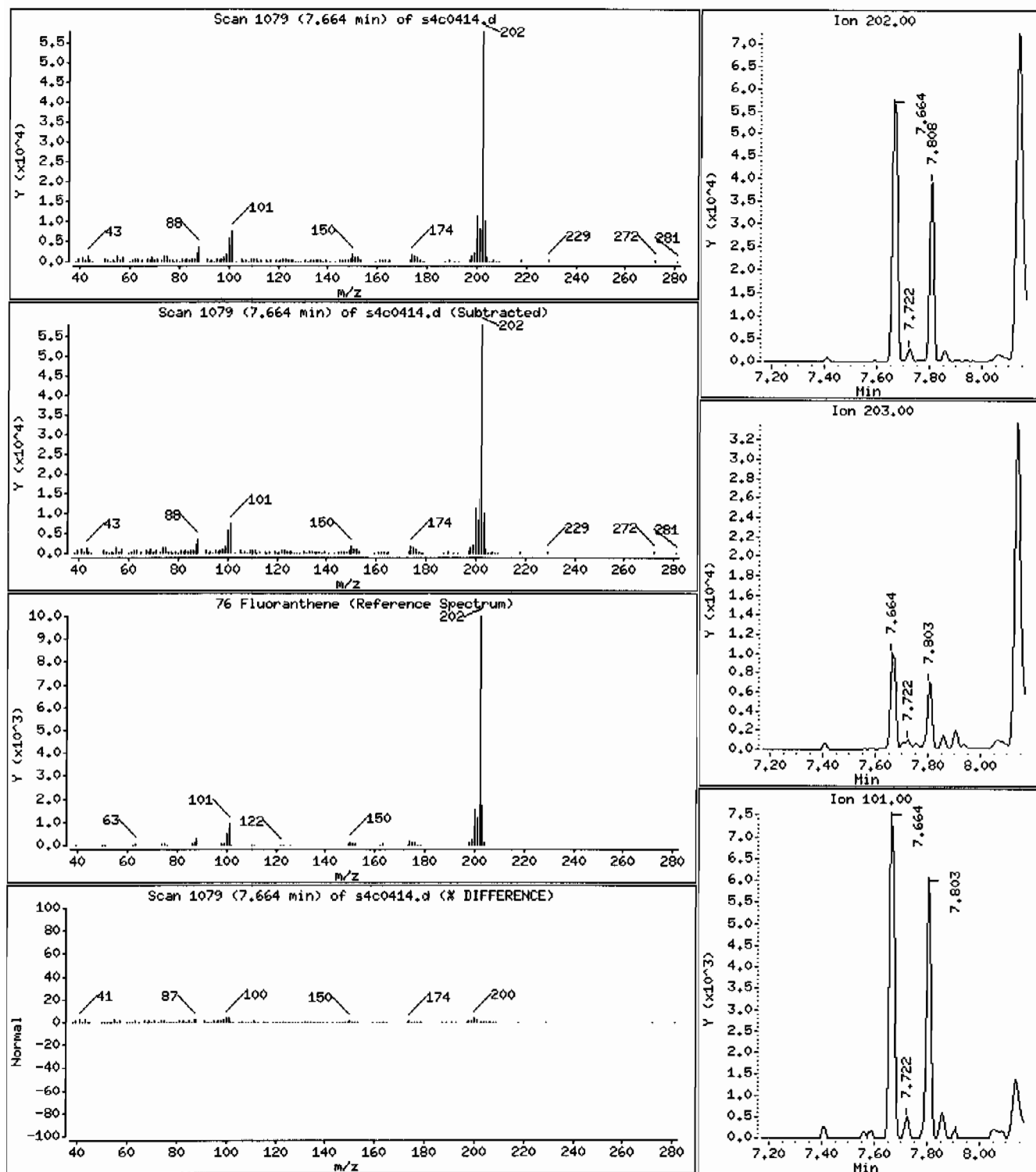
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 226 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511ISVH11LANL

Volume Injected (uL): 0.5

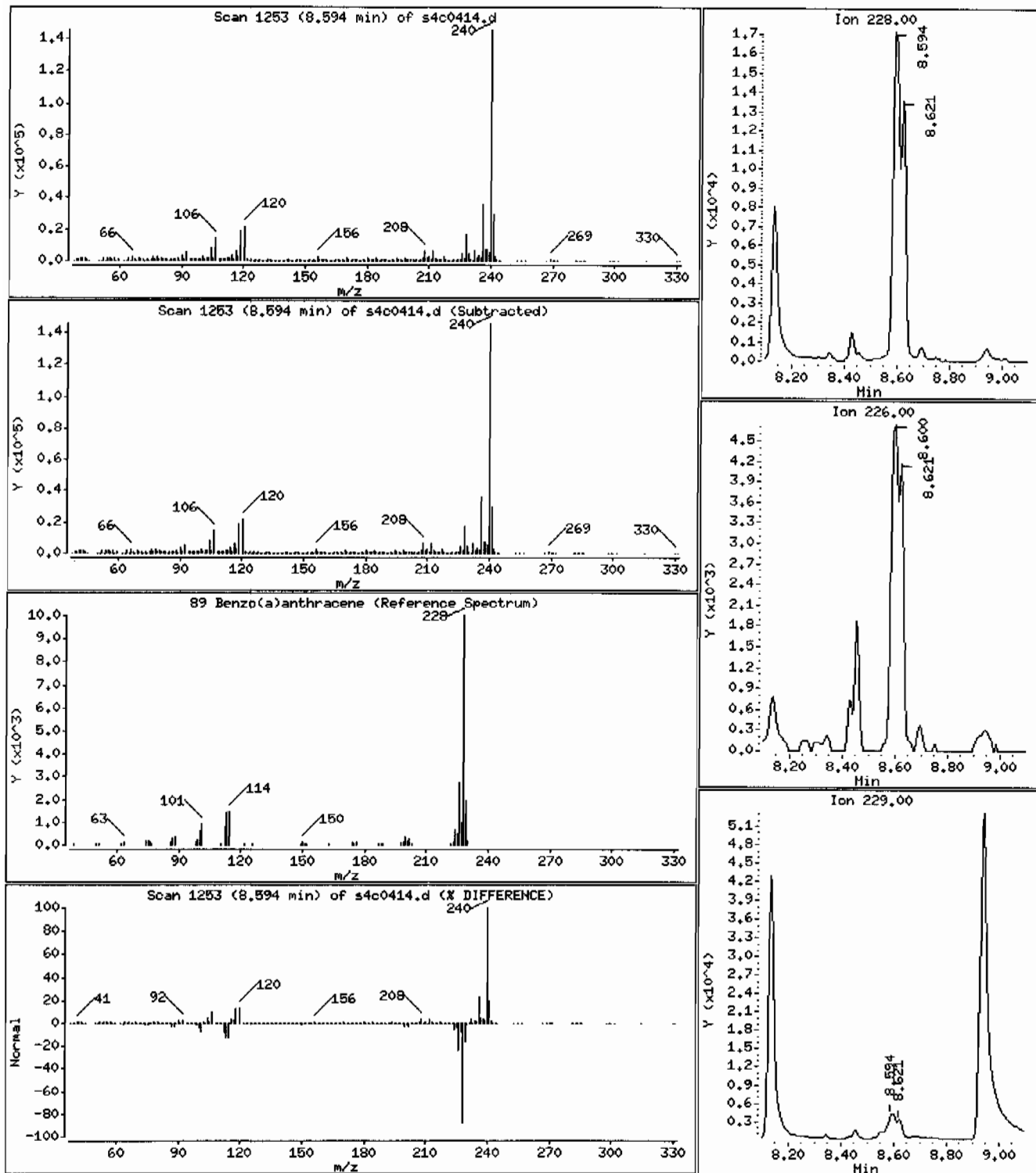
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 101 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH111LANL

Volume Injected (uL): 0.5

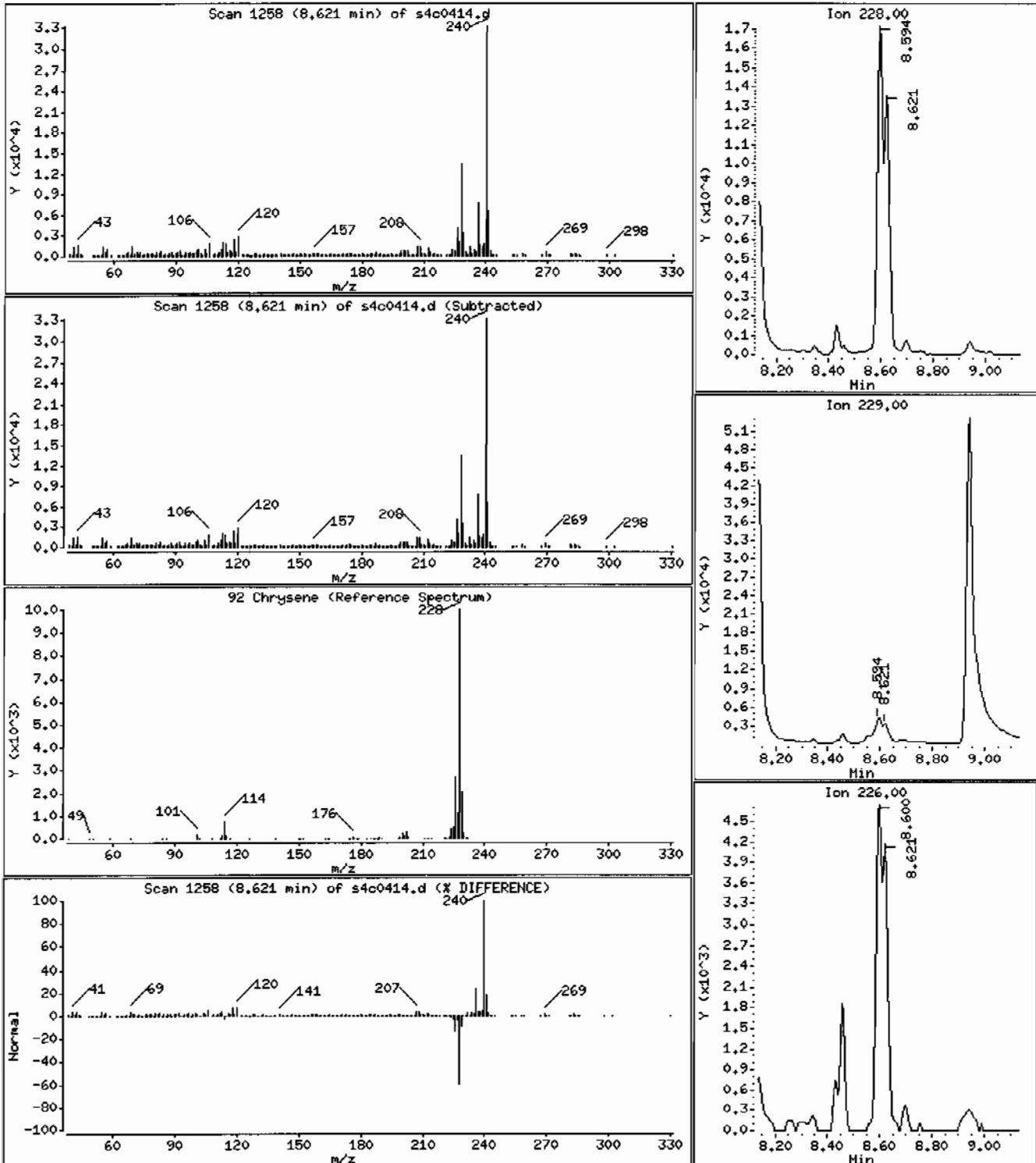
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 81.4 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 12473320021956285111SVH111LANL

Volume Injected (uL): 0.5

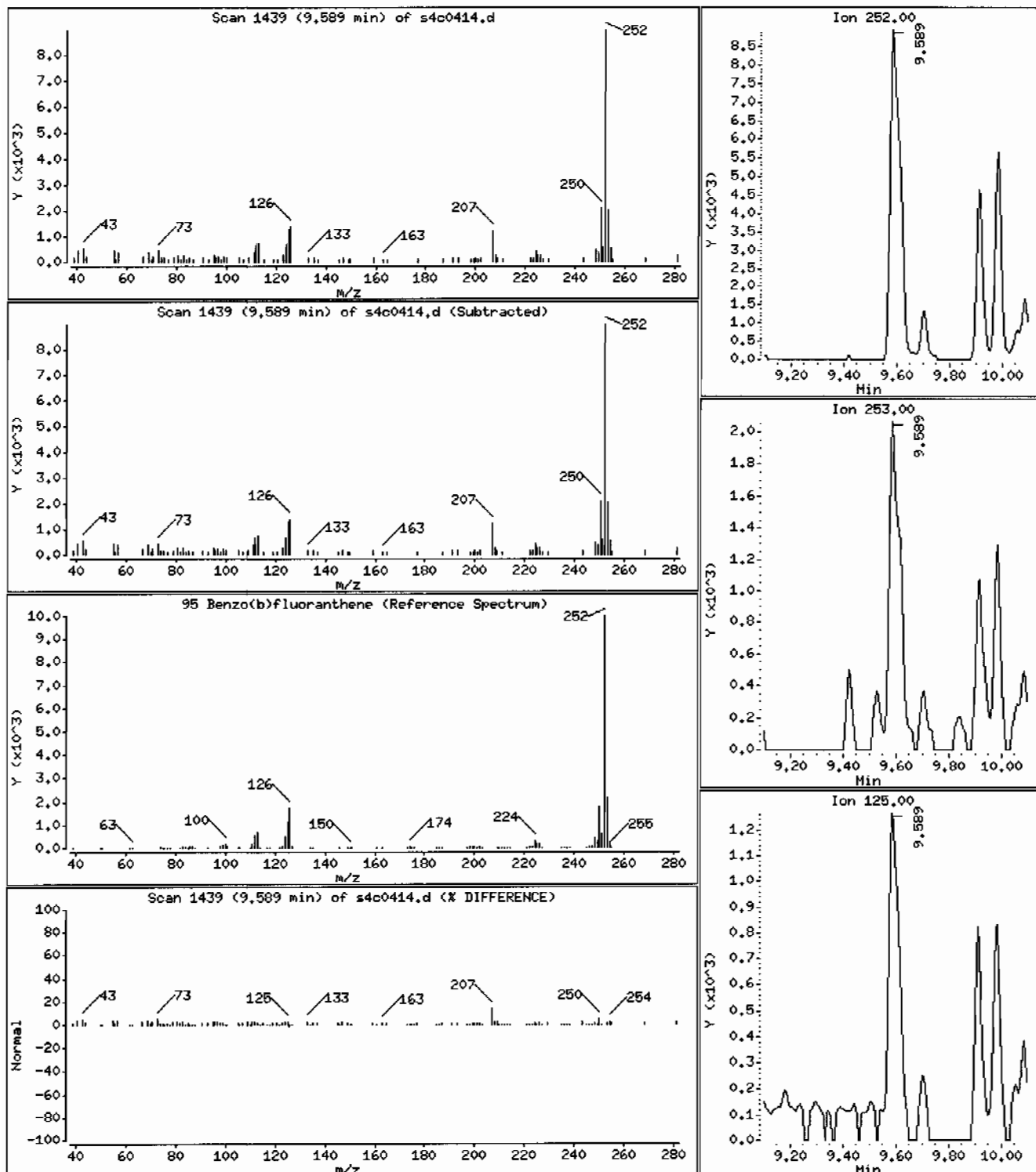
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 111 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 1247332002195628511SVH111LANL

Volume Injected (uL): 0.5

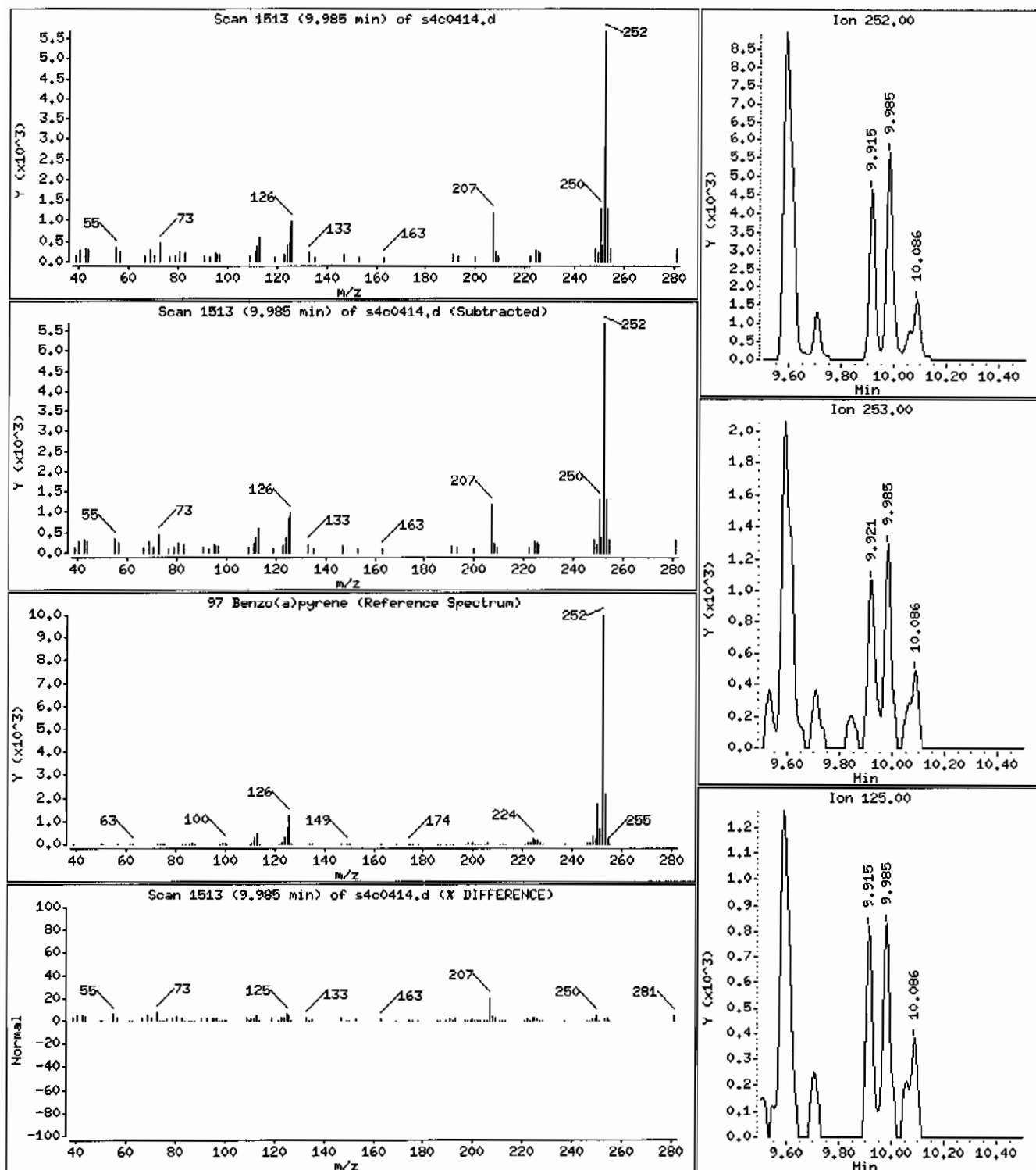
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 59.6 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 12473320021956285111SVH111LANL

Volume Injected (uL): 0.5

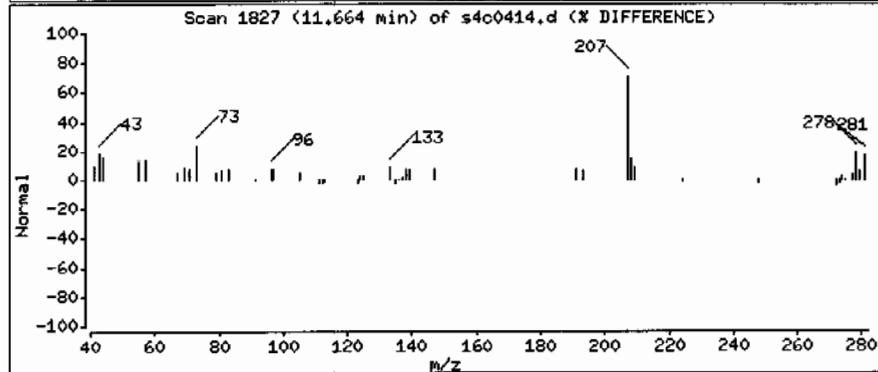
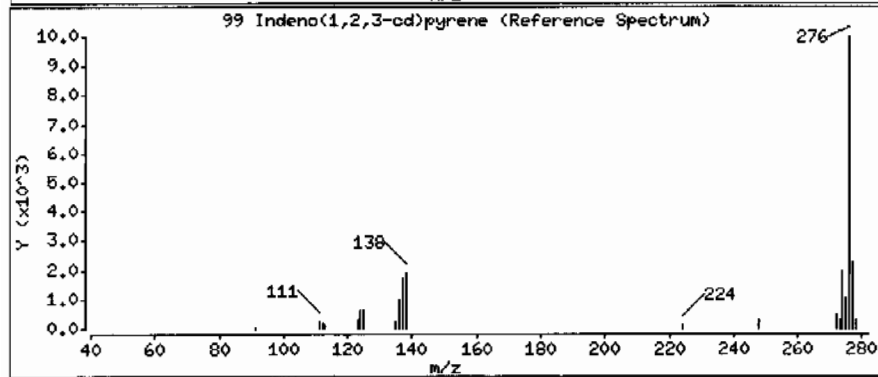
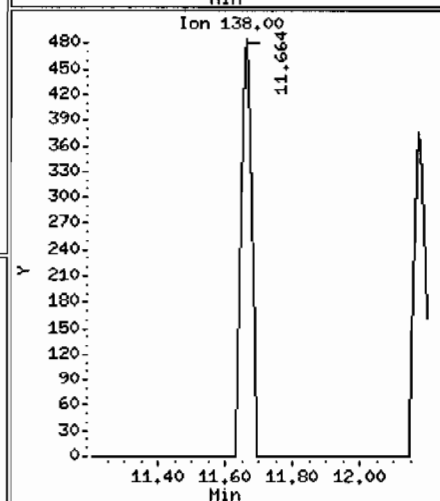
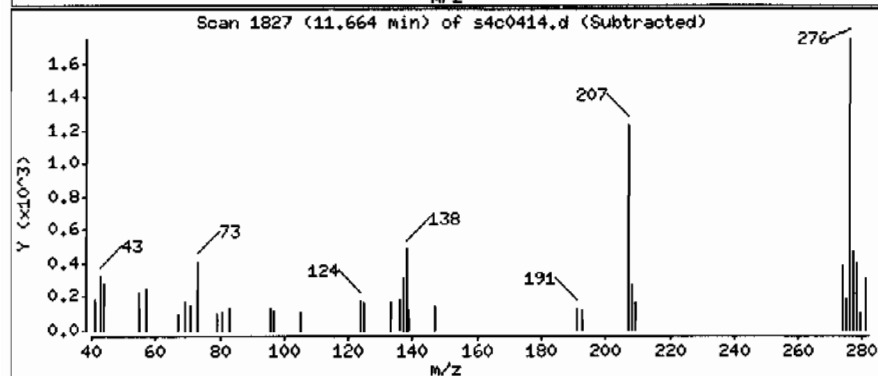
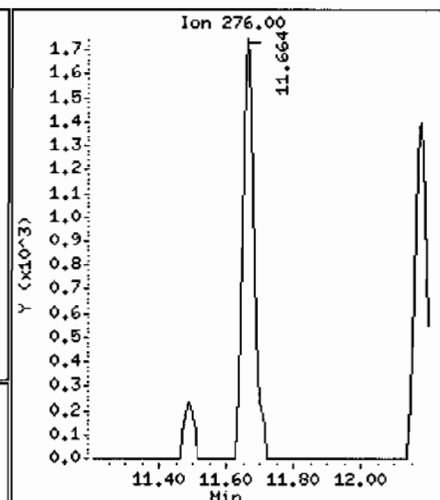
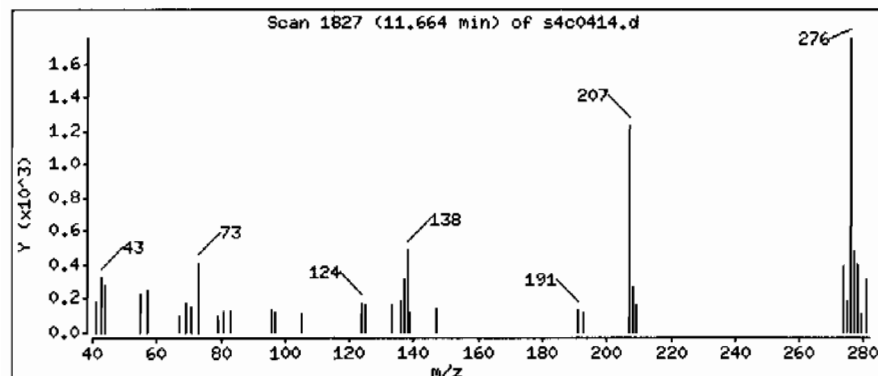
Operator: JHB3

Column phase: J&W DB-SMS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 32.4 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 12473320021956285111SVH111LANL

Volume Injected (uL): 0.5

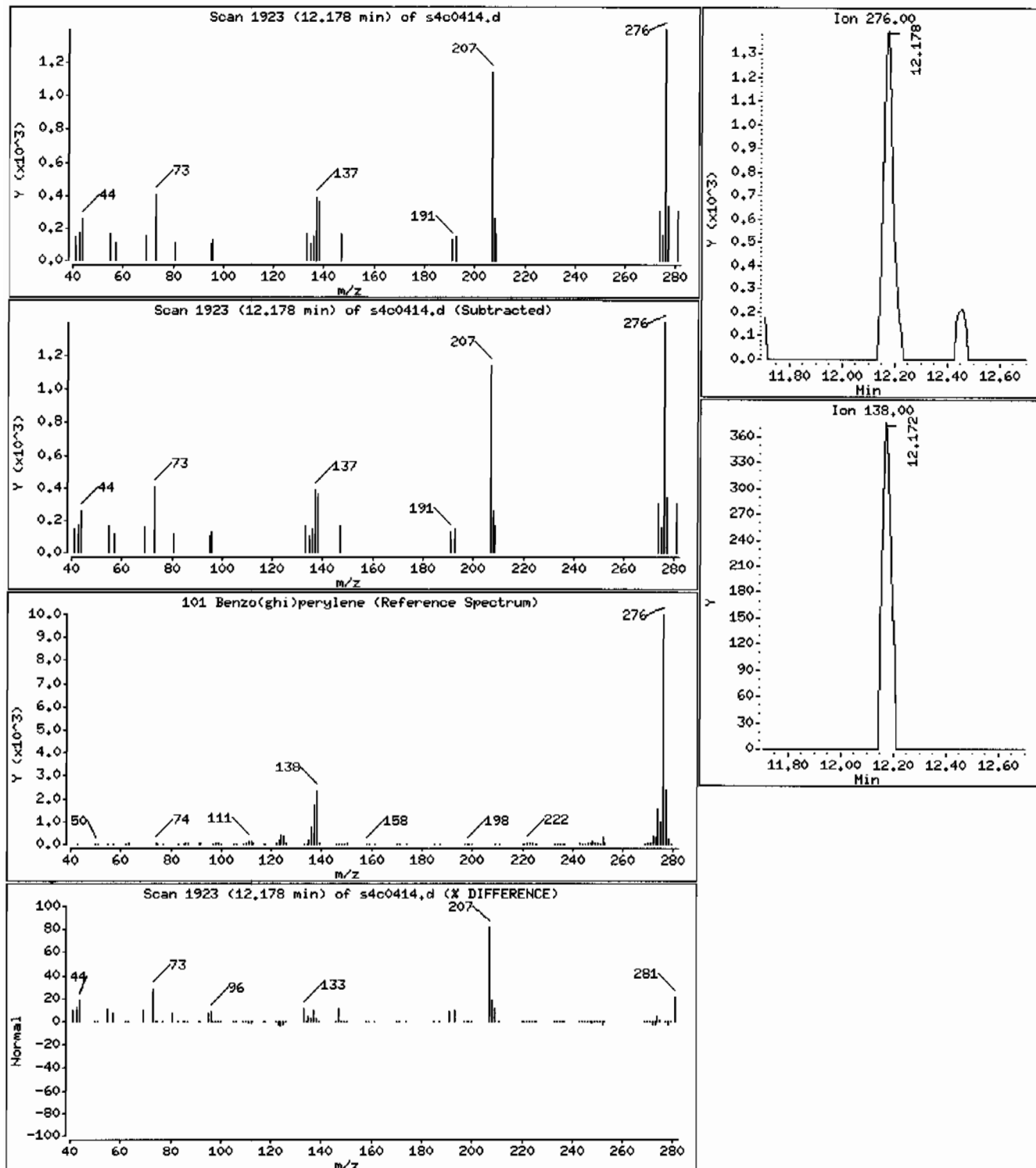
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 34.6 ug/Kg



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH111LANL

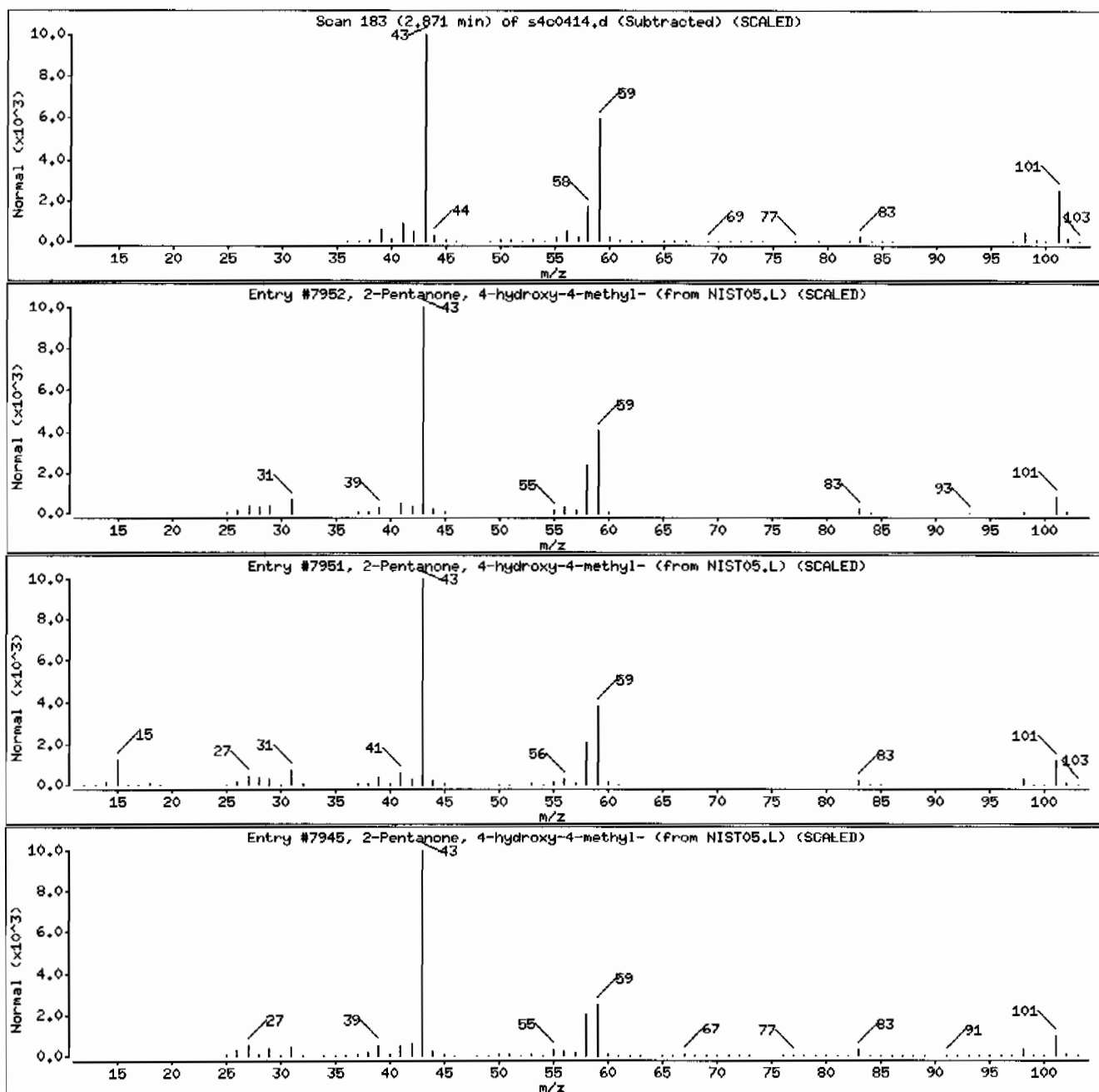
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	38	C6H12O2	116



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH11ILANL

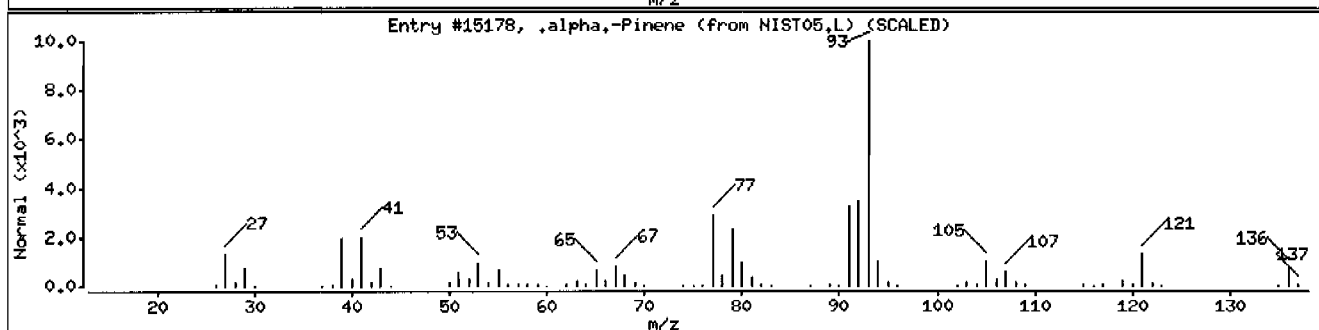
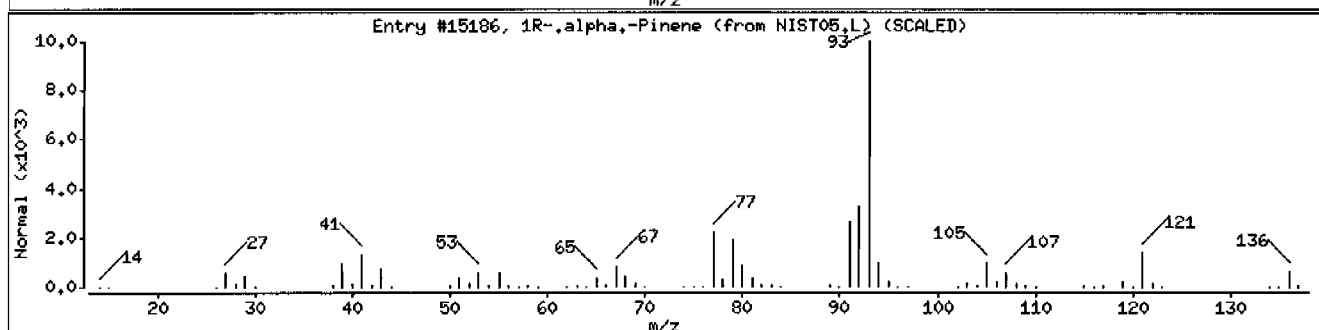
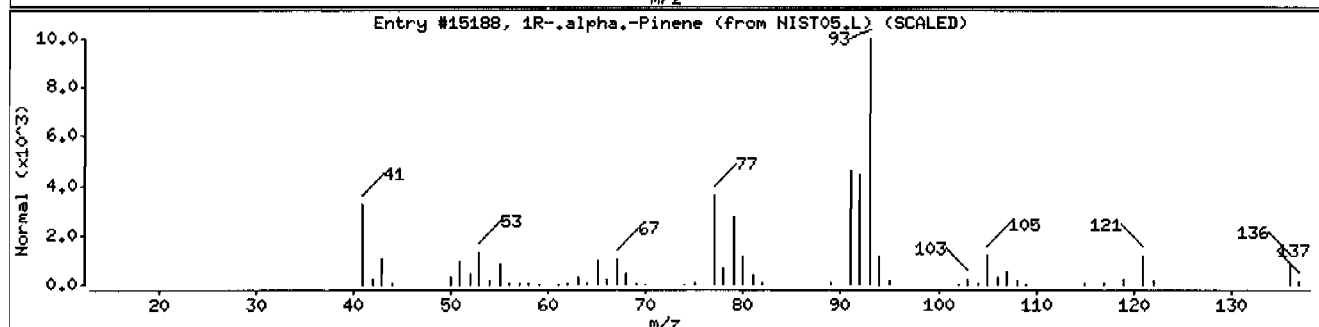
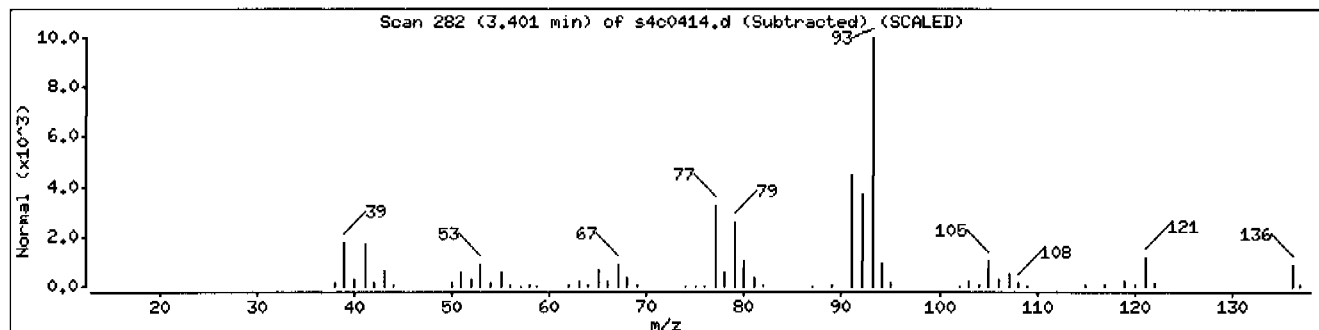
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15188	96	C10H16	136
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15186	96	C10H16	136
,alpha,-Pinene	80-56-8	NIST05.L	15178	96	C10H16	136



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 1247332002195628511SVH111LANL

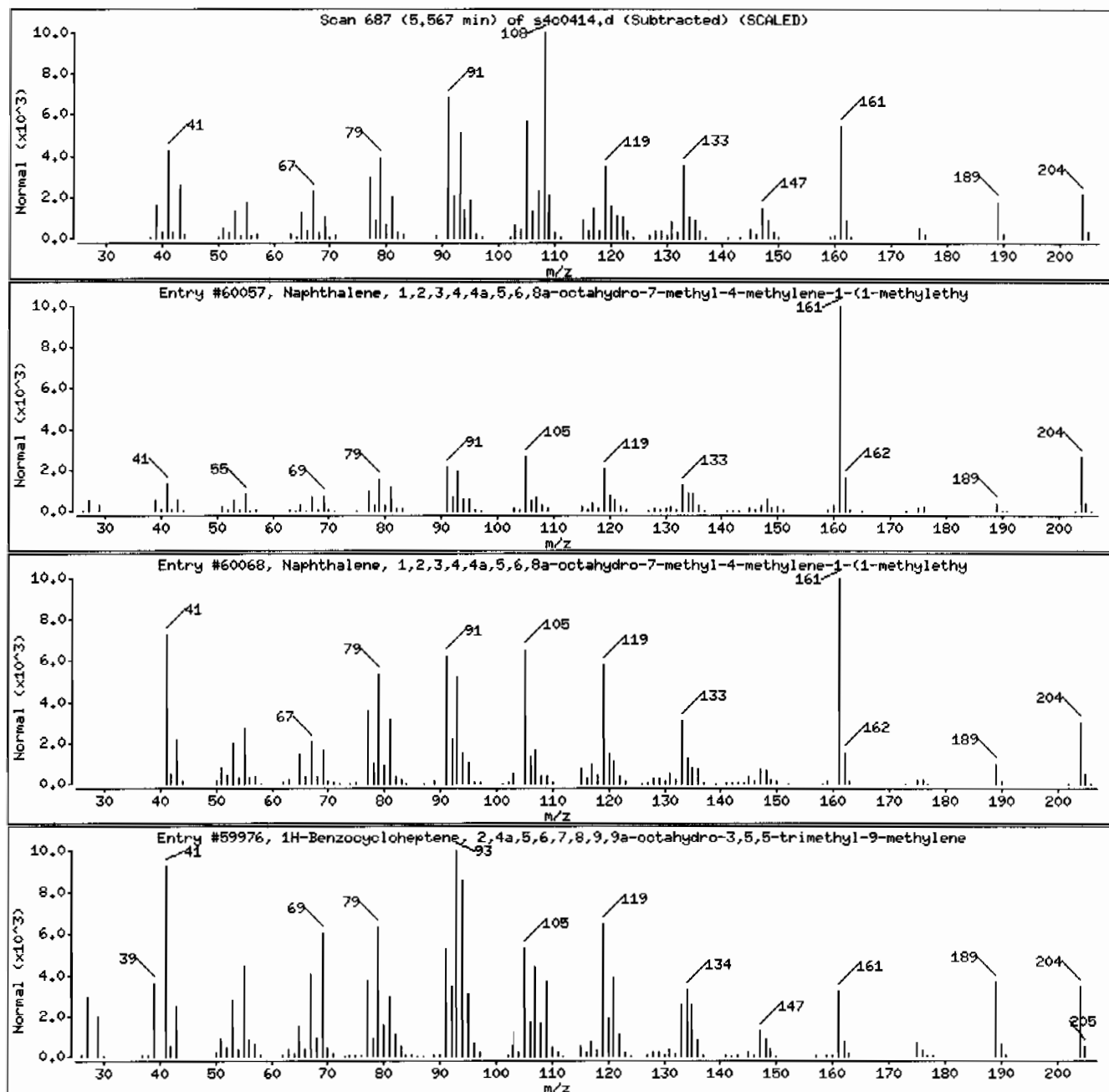
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	39029-41-9	NIST05.L	60057	93	C15H24	204
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	30021-74-0	NIST05.L	60068	86	C15H24	204
1H-Benzocycloheptene, 2,4a,5,6,7,8,9,9a-	80923-88-2	NIST05.L	59976	78	C15H24	204



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVMI11LANL

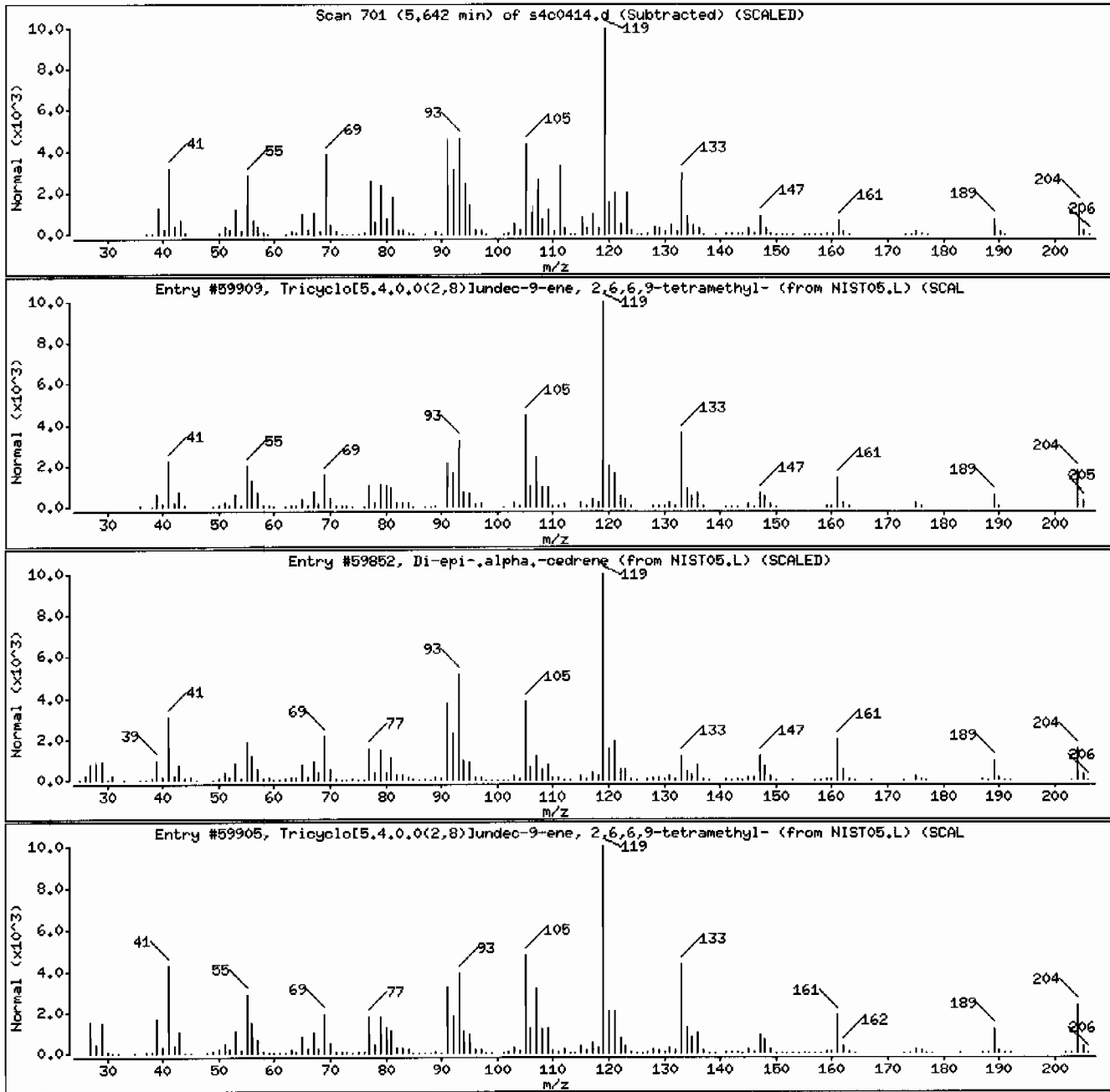
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59909	86	C15H24	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	58	C15H24	204
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59905	50	C15H24	204



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511ISVM11/LANL

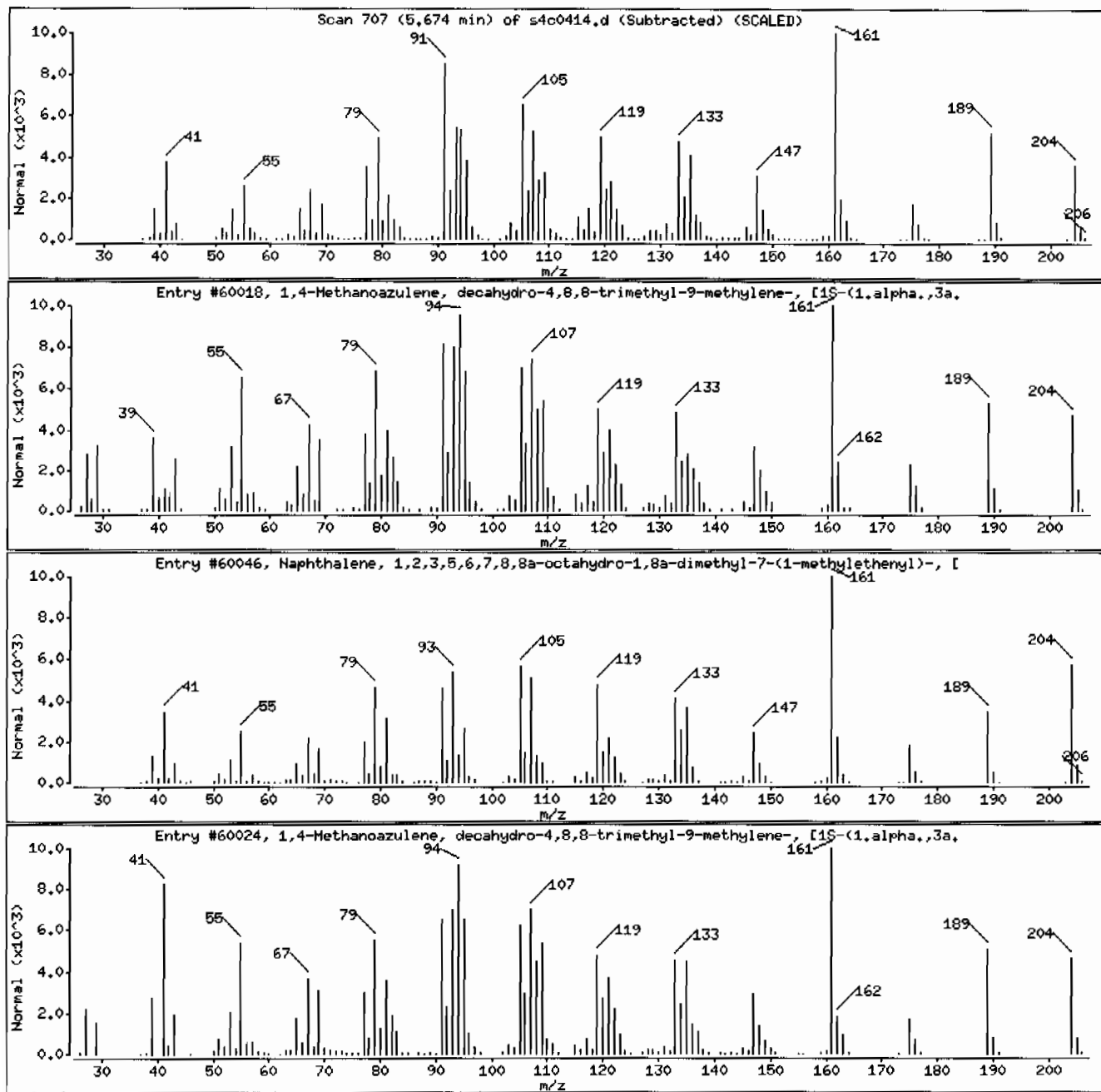
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	97	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	97	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	96	C15H24	204



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 1247332002195628511ISVH111LANL

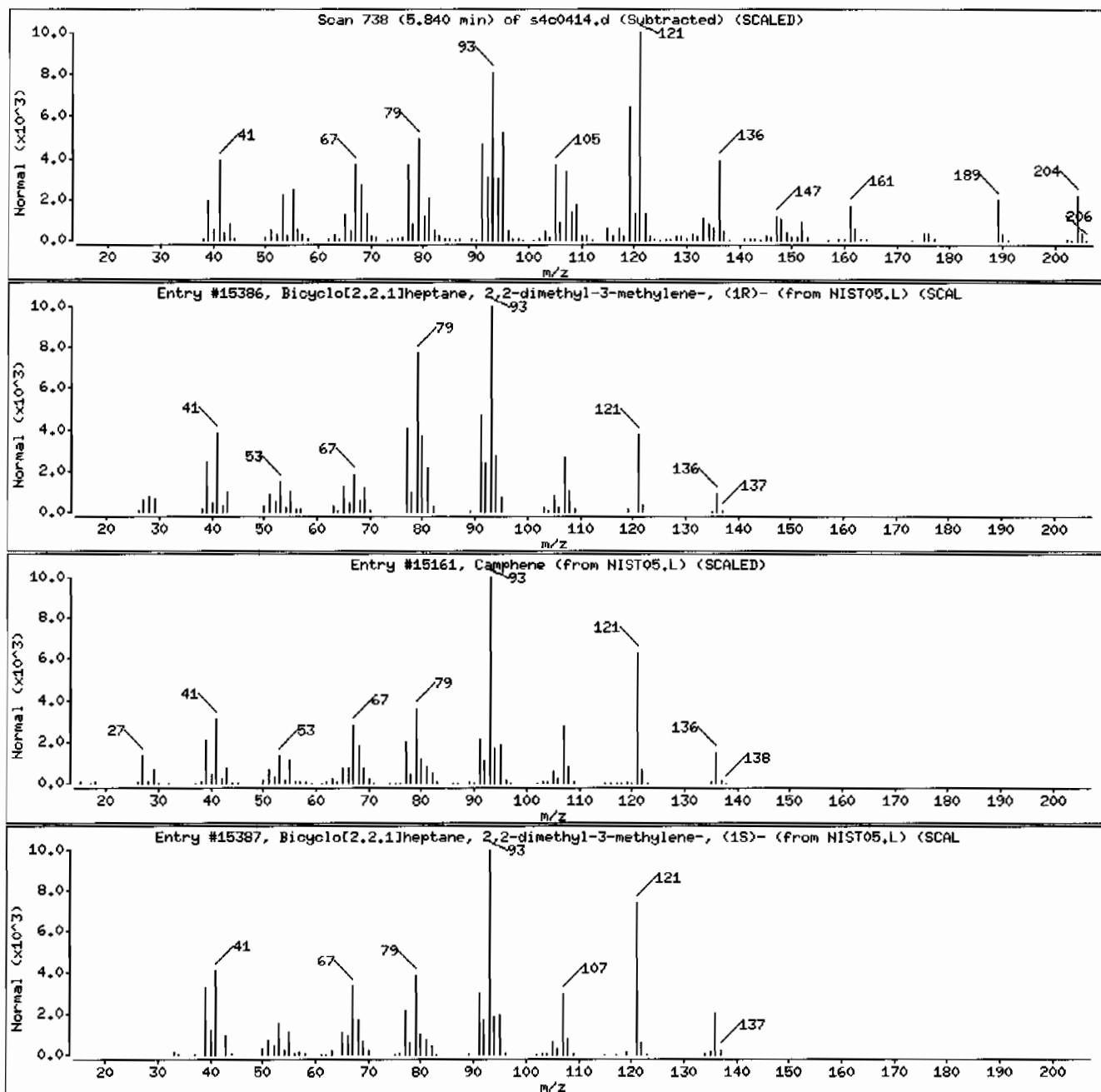
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-03-6	NIST05.L	15386	83	C10H16	136
Camphene	79-92-5	NIST05.L	15161	83	C10H16	136
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-04-7	NIST05.L	15387	64	C10H16	136



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH111LANL

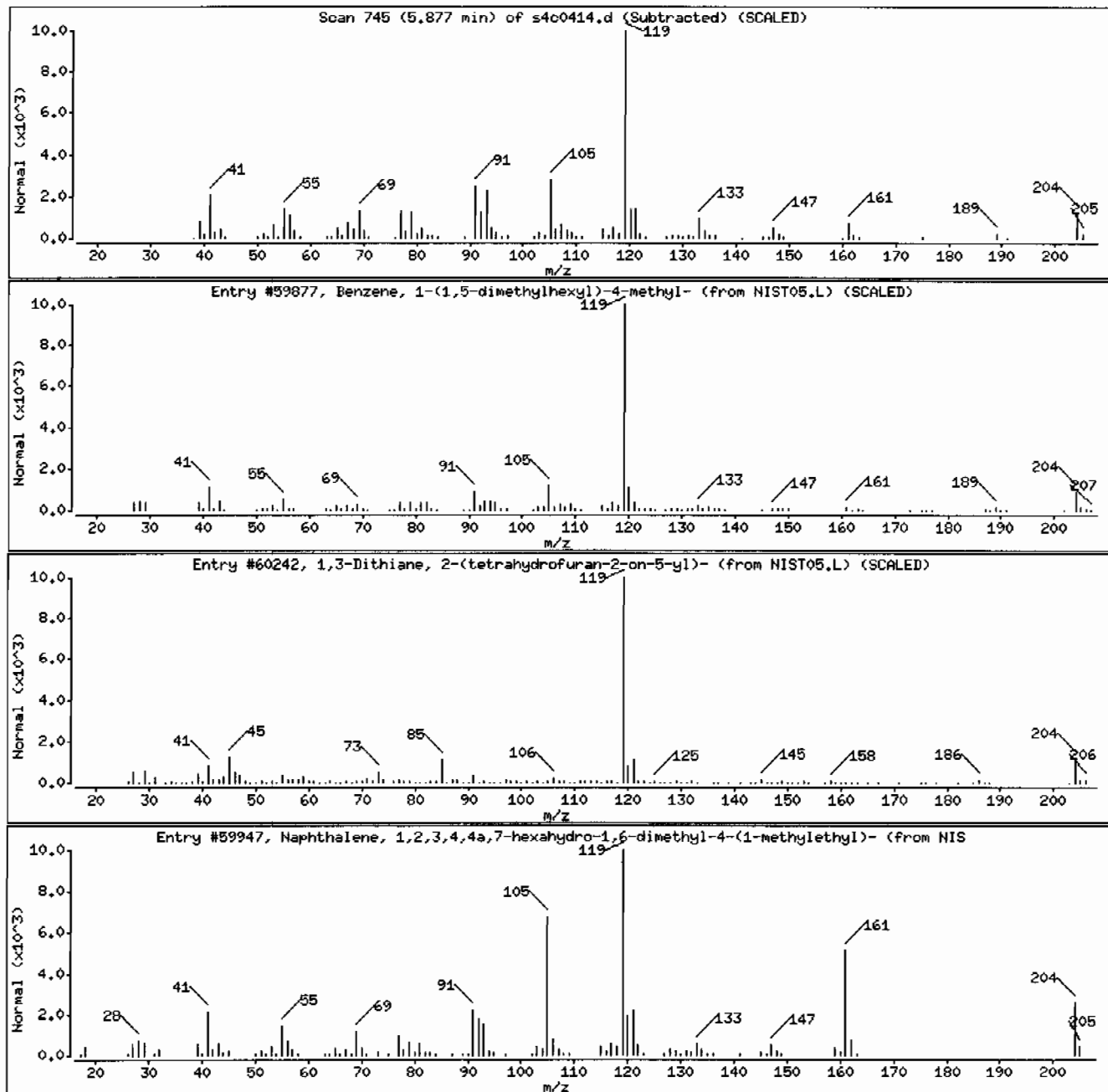
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-(1,5-dimethylhexyl)-4-methyl-	1461-02-5	NIST05.L	59877	64	C15H24	204
1,3-Dithiane, 2-(tetrahydrofuran-2-on-5-	1000197-25-4	NIST05.L	60242	49	C8H12O2S2	204
Naphthalene, 1,2,3,4,4a,7-hexahydro-1,6-	16728-99-7	NIST05.L	59947	49	C15H24	204



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 12473320021956285111SVMI11LANL

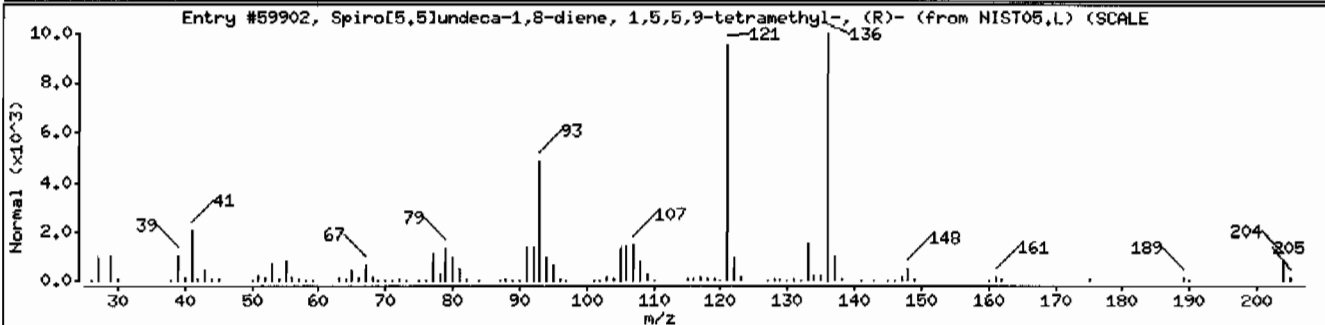
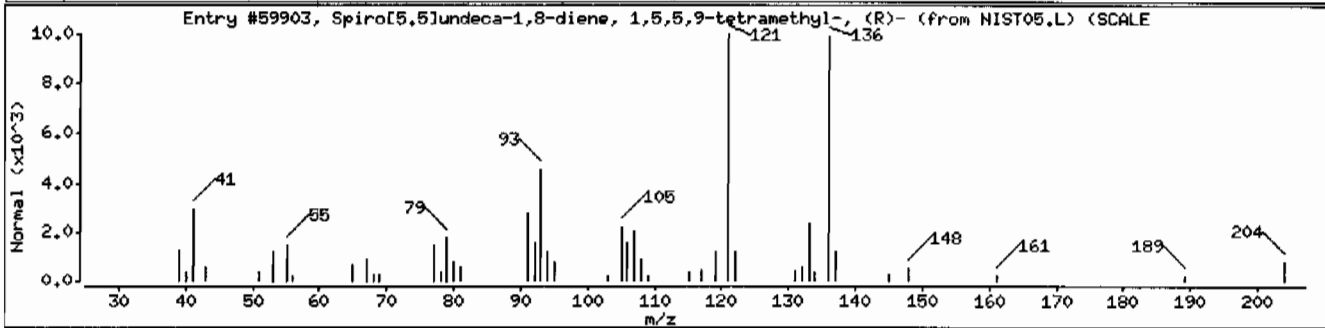
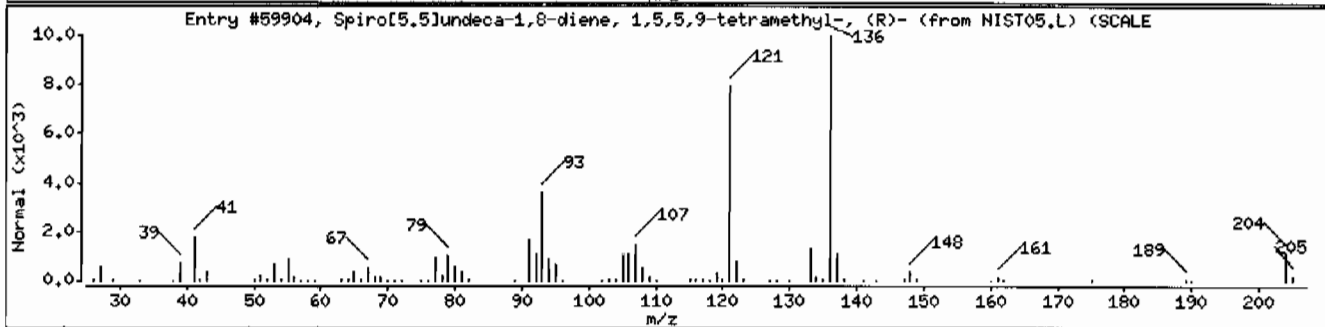
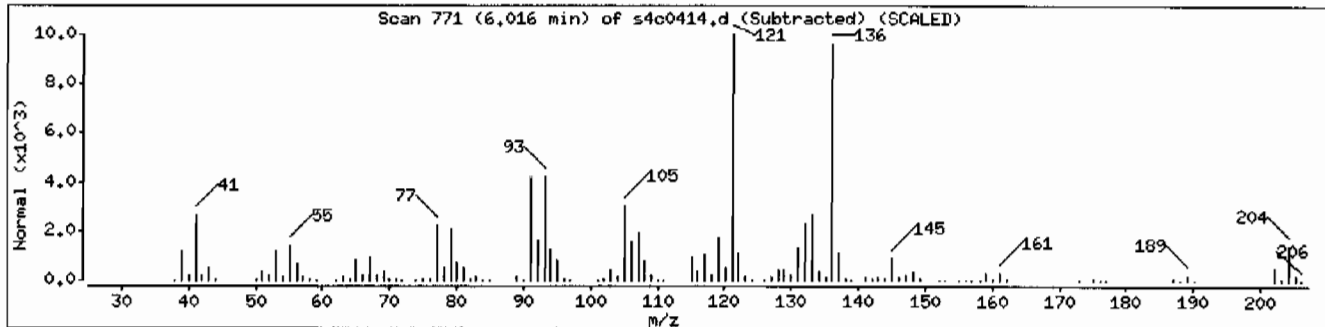
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59904	94	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59903	93	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59902	90	C15H24	204



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 12473320021956285111SVH111LANL

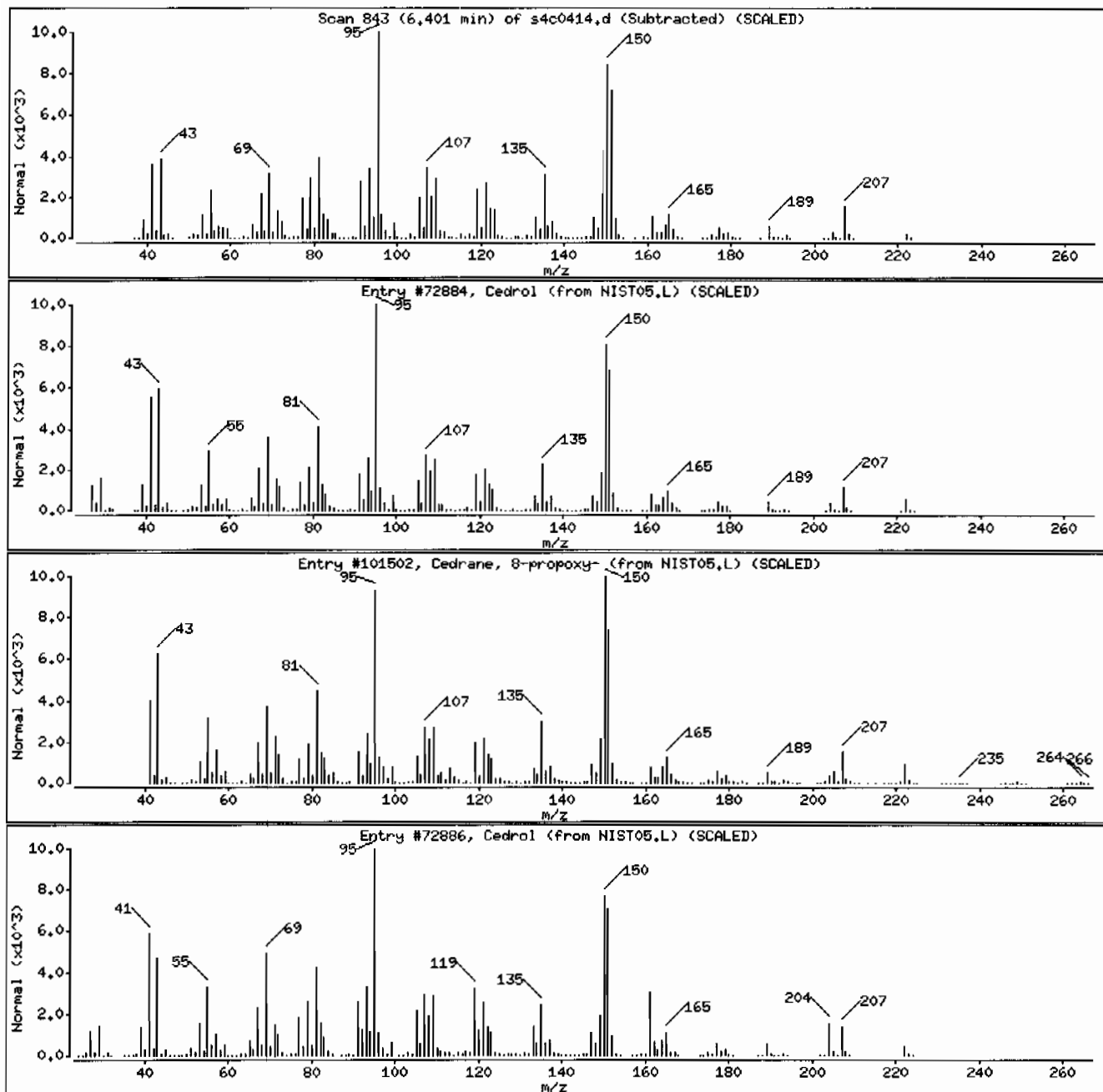
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72884	94	C15H26O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	94	C18H32O	264
Cedrol	77-53-2	NIST05.L	72886	91	C15H26O	222



Date: 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVMI11LANL

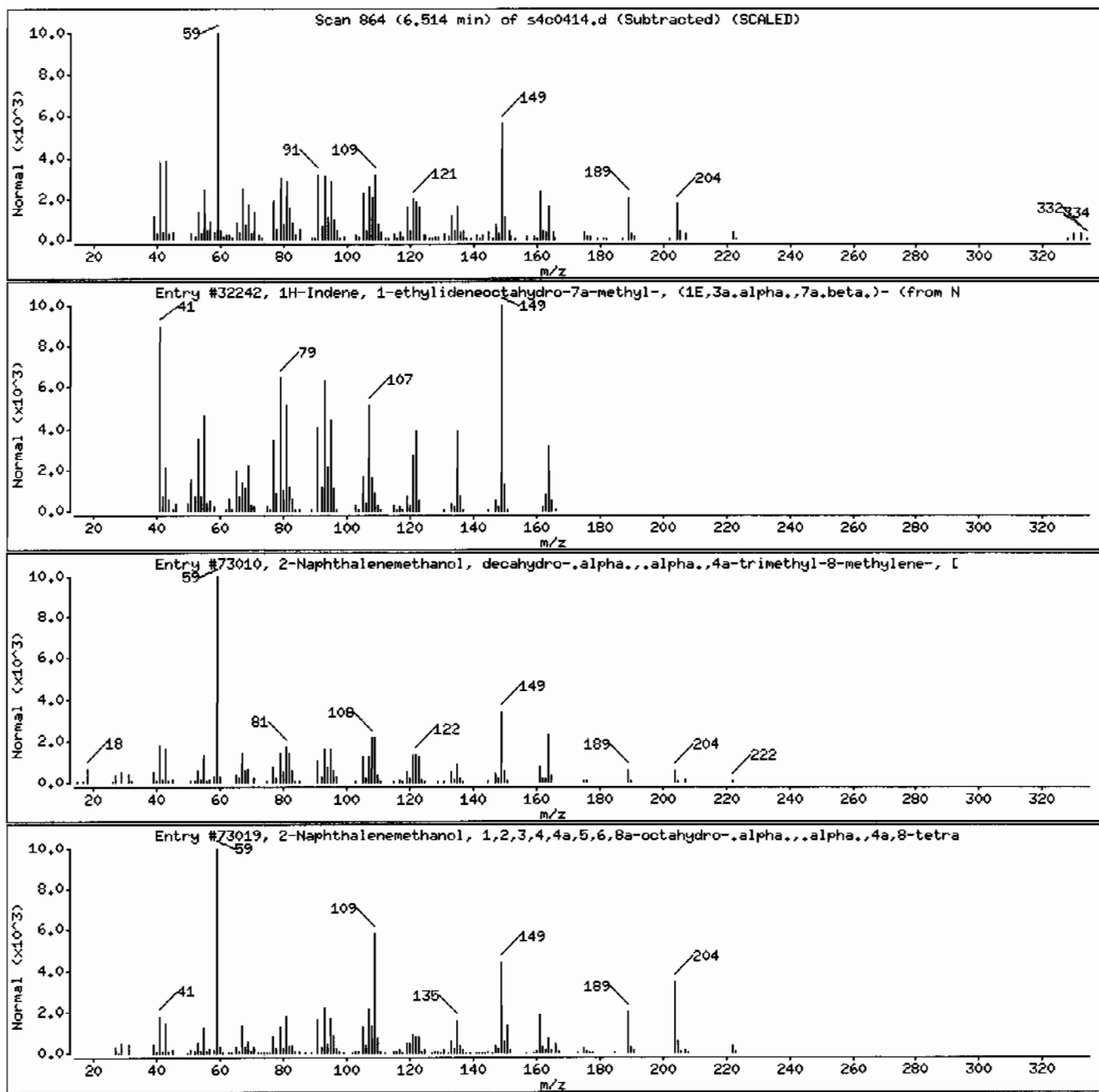
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Indene, 1-ethylideneoctahydro-7a-meth	56324-68-6	NIST05.L	32242	91	C12H20	164
2-Naphthalenemethanol, decahydro-,alpha,	473-15-4	NIST05.L	73010	90	C15H26O	222
2-Naphthalenemethanol, 1,2,3,4,4a,5,6,8a	79254-46-9	NIST05.L	73019	90	C15H26O	222



Date: 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH11LANL

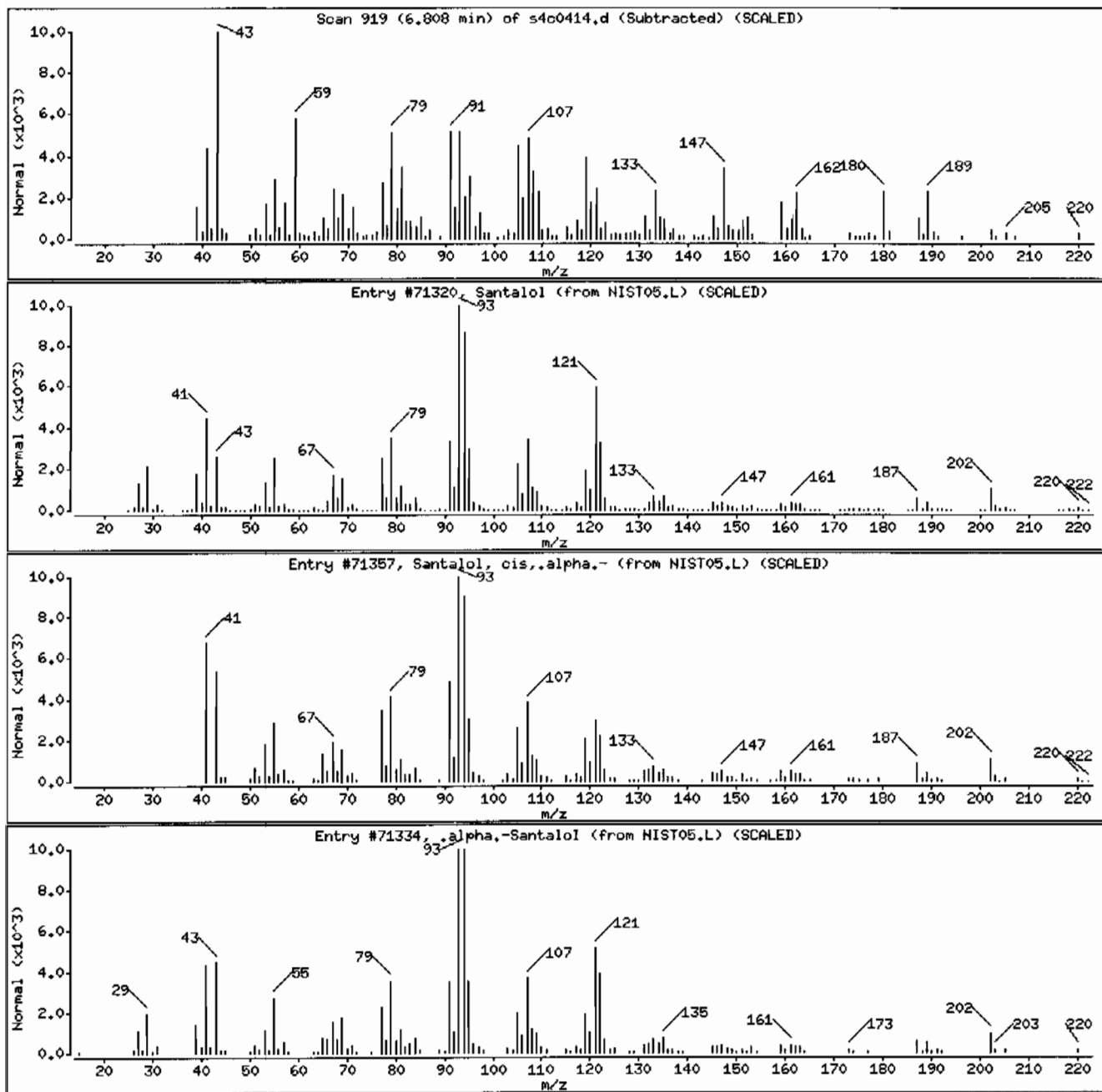
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Santalol	11031-45-1	NIST05.L	71320	25	C15H24O	220
Santalol, cis, .alpha.-	19903-72-1	NIST05.L	71357	20	C15H24O	220
.alpha.-Santalol	115-71-9	NIST05.L	71334	18	C15H24O	220



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH11ILANL

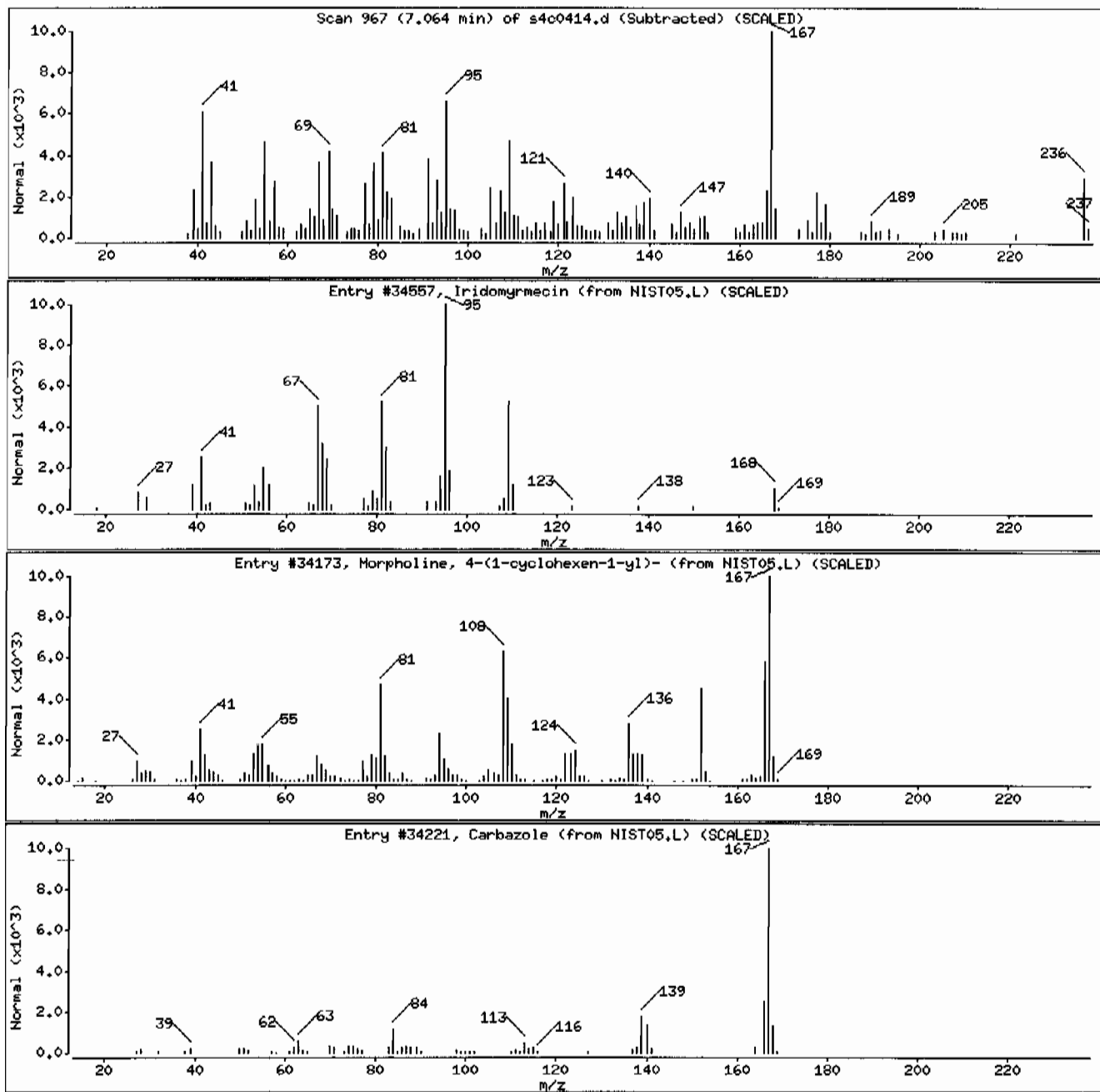
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Iridomyrmecin	485-43-8	NIST05.L	34557	47	C10H16O2	168
Morpholine, 4-(1-cyclohexen-1-yl)-	670-80-4	NIST05.L	34173	43	C10H17NO	167
Carbazole	86-74-8	NIST05.L	34221	38	C12H9N	167



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH111LANL

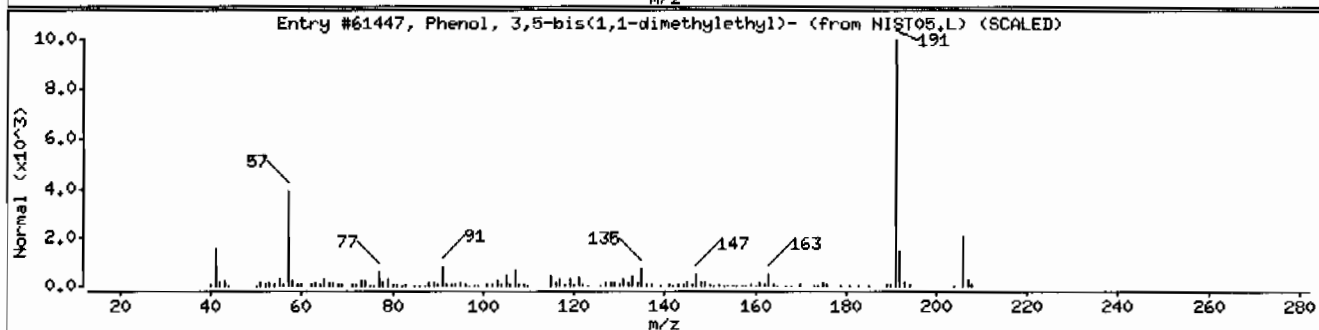
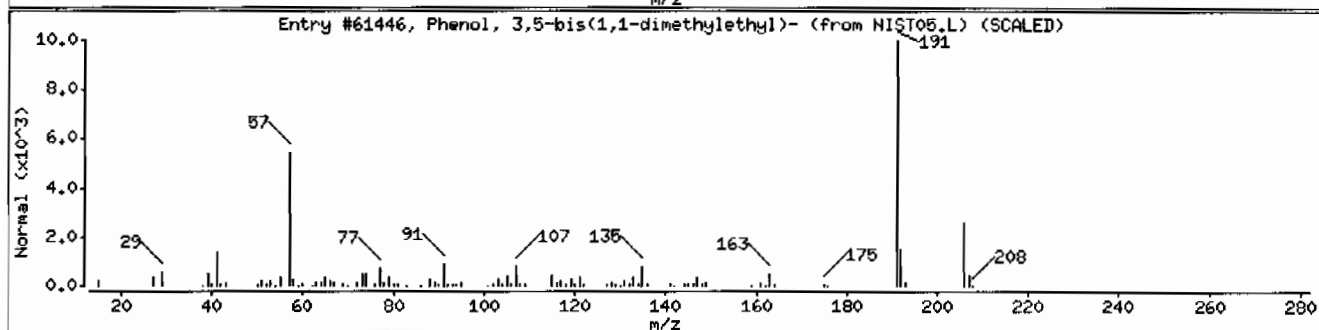
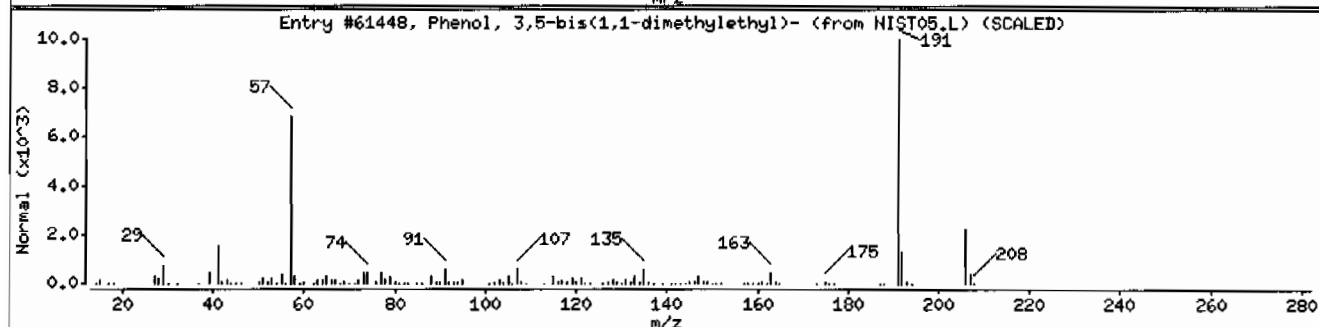
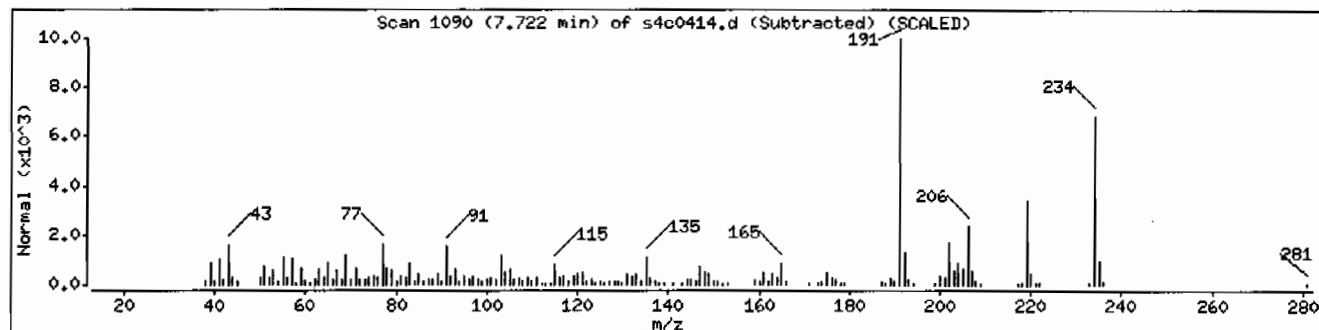
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol, 3,5-bis(1,1-dimethylethyl)-	1138-52-9	NIST05.L	61448	55	C14H22O	206
Phenol, 3,5-bis(1,1-dimethylethyl)-	1138-52-9	NIST05.L	61446	55	C14H22O	206
Phenol, 3,5-bis(1,1-dimethylethyl)-	1138-52-9	NIST05.L	61447	55	C14H22O	206



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: HSD4.i

Sample Info: 12473320021956285111SVMI11LANL

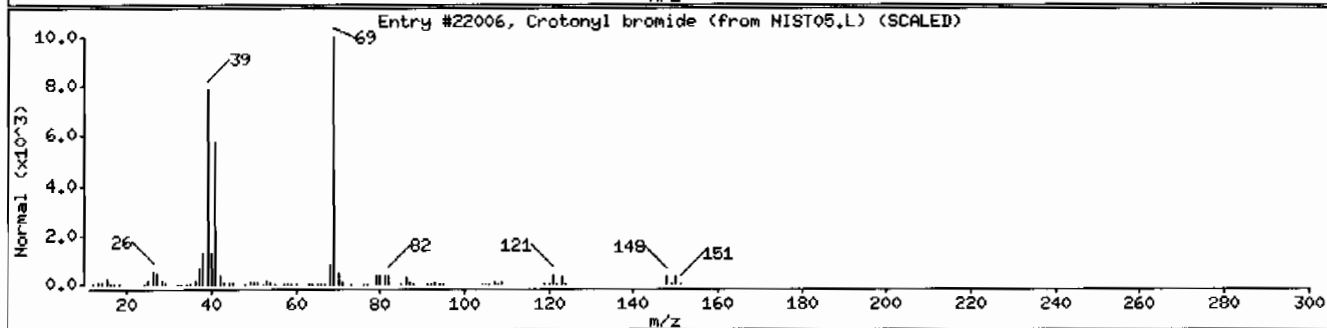
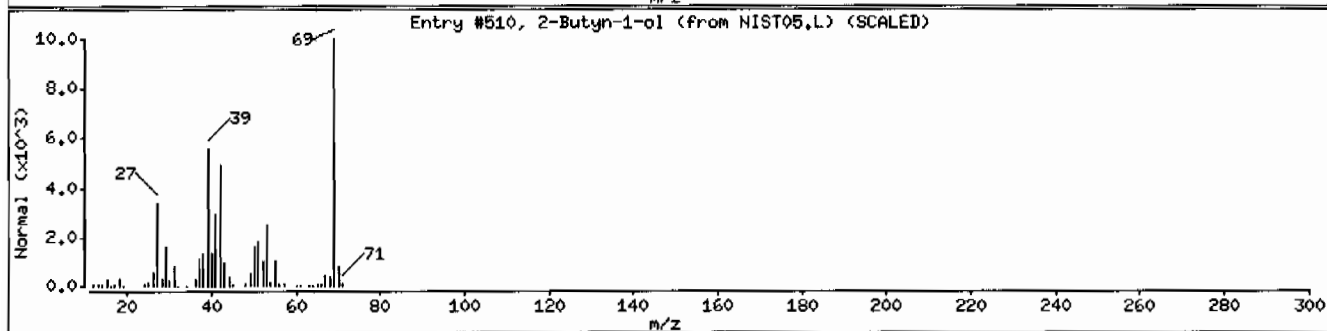
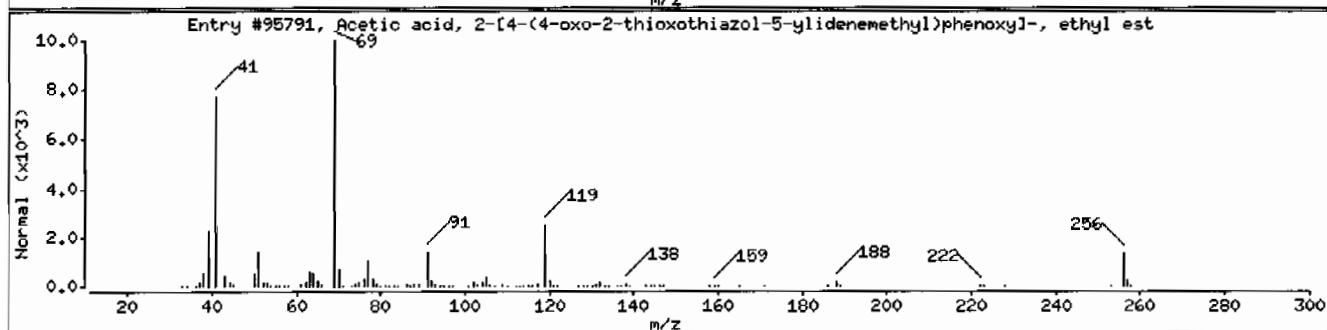
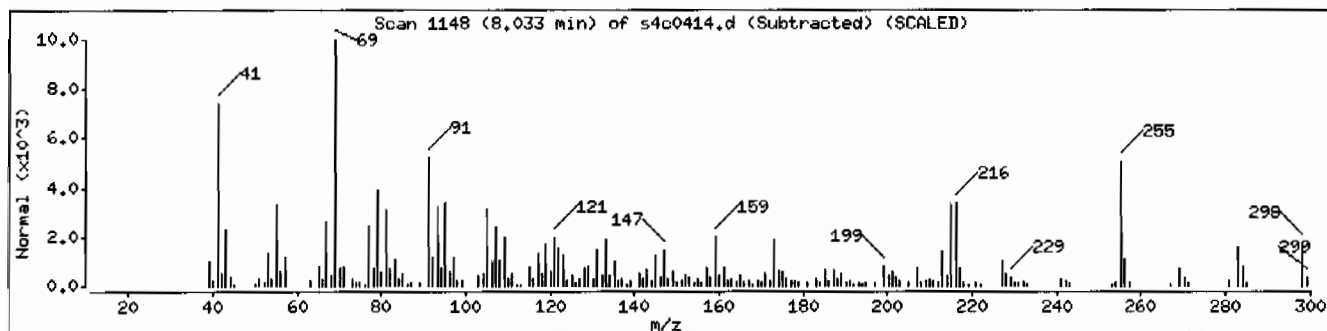
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetic acid, 2-[4-(4-oxo-2-thioxothiazol-5-ylidenemethyl)phenoxy]-, ethyl est	1000265-00-3	NIST05.L	95791	14	C13H12N4O2	256
2-Butyn-1-ol	764-01-2	NIST05.L	510	9	C4H6O	70
Crotonyl bromide	55600-70-9	NIST05.L	22006	9	C4H5BrO	148



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH111LANL

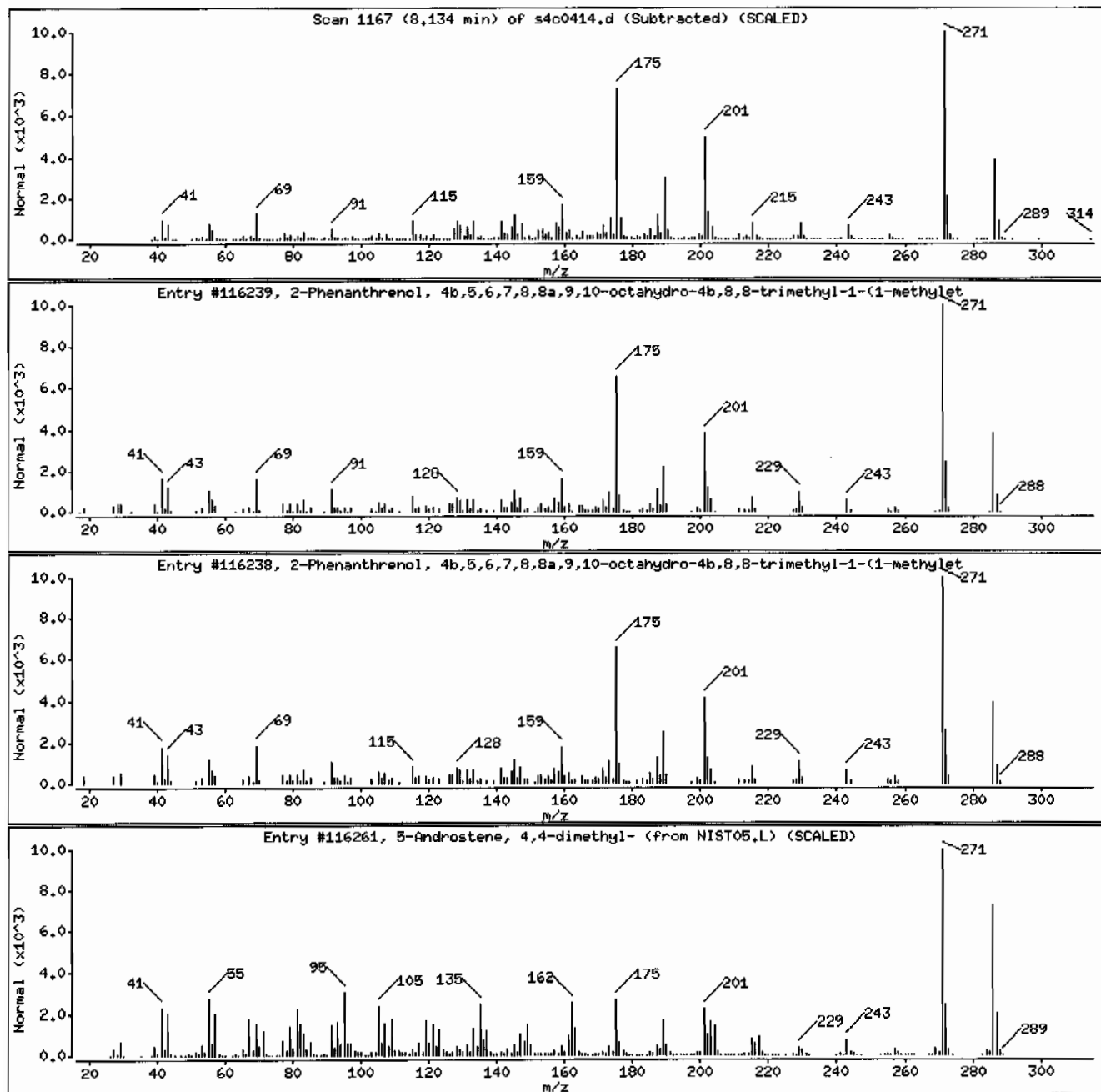
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	99	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	94	C20H30O	286
5-Androstene, 4,4-dimethyl-	1000194-15-4	NIST05.L	116261	47	C21H34	286



Date : 04-MAR-2010 17:28

Client ID: RE15-10-8346

Instrument: MSD4.i

Sample Info: 1247332002195628511SVH111LANL

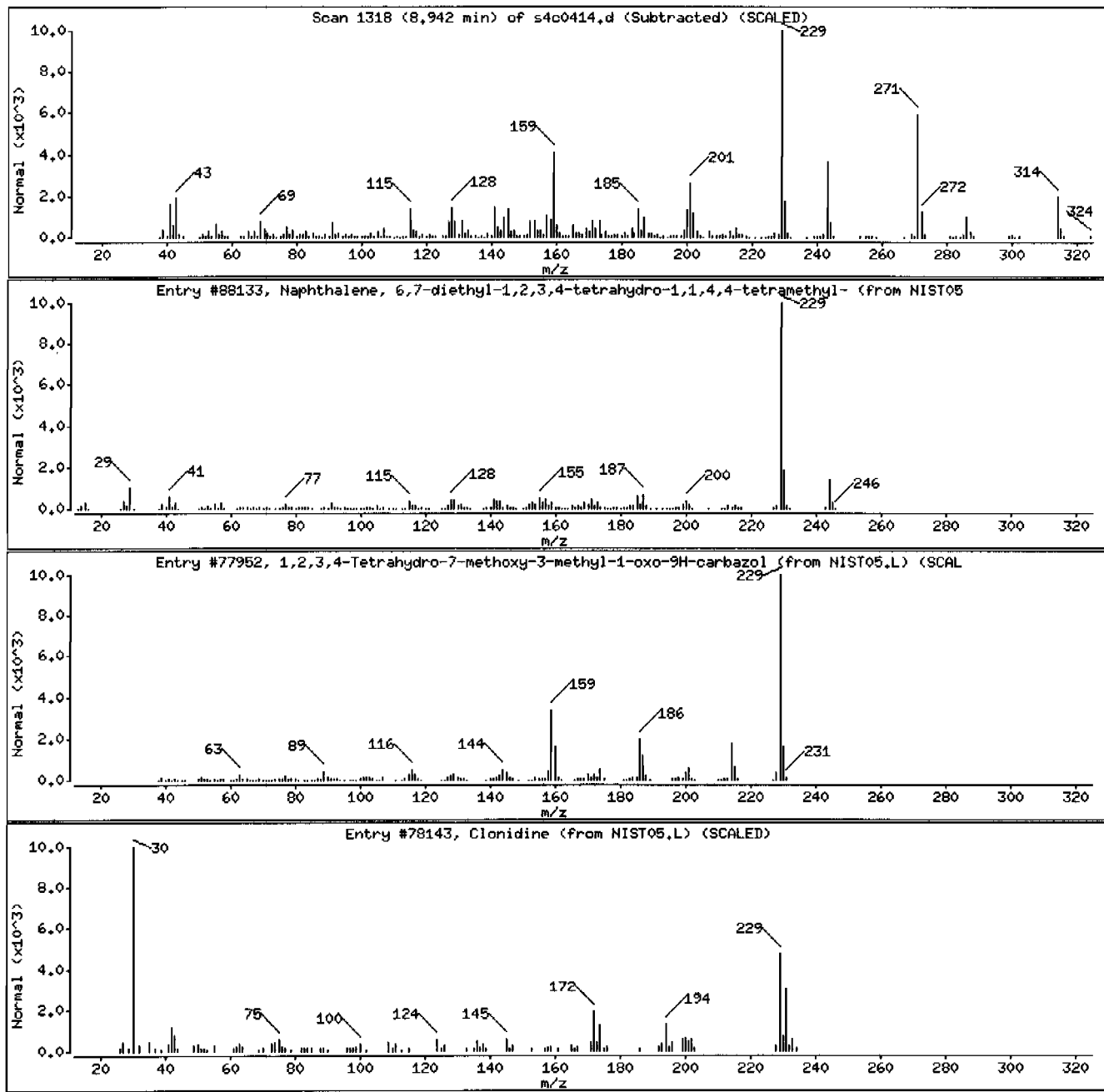
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	55741-10-1	NIST05.L	88133	52	C18H28	244
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-	32550-51-9	NIST05.L	77952	50	C14H15NO2	229
Clonidine	4205-90-7	NIST05.L	78143	27	C9H9Cl2N3	229



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332003

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8347
Batch ID: 956285
Run Date: 03/04/2010 17:50
Prep Date: 02/23/2010 10:34
Data File: s4c0415.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	343	ug/kg	68.5	343
108-95-2	Phenol	U	343	ug/kg	68.5	343
95-57-8	2-Chlorophenol	U	343	ug/kg	68.5	343
106-46-7	1,4-Dichlorobenzene	U	343	ug/kg	68.5	343
621-64-7	N-Nitrosodipropylamine	U	343	ug/kg	68.5	343
59-50-7	4-Chloro-3-methylphenol	U	343	ug/kg	68.5	343
83-32-9	Acenaphthene	U	34.3	ug/kg	11.3	34.3
121-14-2	2,4-Dinitrotoluene	U	343	ug/kg	34.3	343
100-02-7	4-Nitrophenol	U	343	ug/kg	113	343
87-86-5	Pentachlorophenol	U	343	ug/kg	85.7	343
129-00-0	Pyrene	U	34.3	ug/kg	10.3	34.3
110-86-1	Pyridine	U	343	ug/kg	68.5	343
62-53-3	Aniline	U	343	ug/kg	103	343
111-44-4	bis(2-Chloroethyl) ether	U	343	ug/kg	68.5	343
541-73-1	1,3-Dichlorobenzene	U	343	ug/kg	68.5	343
100-51-6	Benzyl alcohol	U	343	ug/kg	103	343
95-50-1	1,2-Dichlorobenzene	U	343	ug/kg	68.5	343
108-60-1	bis(2-Chloroisopropyl)ether	U	343	ug/kg	68.5	343
95-48-7	o-Cresol	U	343	ug/kg	68.5	343
65794-96-9	m,p-Cresols	U	343	ug/kg	103	343
67-72-1	Hexachloroethane	U	343	ug/kg	68.5	343
98-95-3	Nitrobenzene	U	343	ug/kg	68.5	343
78-59-1	Isophorone	U	343	ug/kg	68.5	343
88-75-5	2-Nitrophenol	U	343	ug/kg	68.5	343
105-67-9	2,4-Dimethylphenol	U	343	ug/kg	120	343
111-91-1	bis(2-Chloroethoxy)methane	U	343	ug/kg	68.5	343
120-83-2	2,4-Dichlorophenol	U	343	ug/kg	68.5	343
65-85-0	Benzoic acid	U	685	ug/kg	171	685
91-20-3	Naphthalene	U	34.3	ug/kg	10.3	34.3
106-47-8	4-Chloroaniline	U	343	ug/kg	68.5	343
87-68-3	Hexachlorobutadiene	U	343	ug/kg	68.5	343
91-57-6	2-Methylnaphthalene	U	34.3	ug/kg	6.85	34.3
77-47-4	Hexachlorocyclopentadiene	U	343	ug/kg	68.5	343
88-06-2	2,4,6-Trichlorophenol	U	343	ug/kg	68.5	343
95-95-4	2,4,5-Trichlorophenol	U	343	ug/kg	68.5	343
91-58-7	2-Chloronaphthalene	U	34.3	ug/kg	11.3	34.3
88-74-4	2-Nitroaniline	U	343	ug/kg	68.5	343
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	343	ug/kg	68.5	343

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 247332003

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	343	ug/kg	68.5	343
606-20-2	2,6-Dinitrotoluene	U	343	ug/kg	34.3	343
208-96-8	Acenaphthylene	U	34.3	ug/kg	10.3	34.3
51-28-5	2,4-Dinitrophenol	U	685	ug/kg	130	685
132-64-9	Dibenzofuran	U	343	ug/kg	68.5	343
84-66-2	Diethylphthalate	U	343	ug/kg	68.5	343
86-73-7	Fluorene	U	34.3	ug/kg	10.3	34.3
7005-72-3	4-Chlorophenylphenylether	U	343	ug/kg	68.5	343
534-52-1	2-Methyl-4,6-dinitrophenol	U	343	ug/kg	68.5	343
100-01-6	4-Nitroaniline	U	343	ug/kg	103	343
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	343	ug/kg	68.5	343
122-66-7	Azobenzene	U	343	ug/kg	68.5	343
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	343	ug/kg	68.5	343
118-74-1	Hexachlorobenzene	U	343	ug/kg	68.5	343
85-01-8	Phenanthrene	U	34.3	ug/kg	10.3	34.3
120-12-7	Anthracene	U	34.3	ug/kg	6.85	34.3
84-74-2	Di-n-butylphthalate	U	343	ug/kg	68.5	343
206-44-0	Fluoranthene	U	34.3	ug/kg	10.3	34.3
85-68-7	Butylbenzylphthalate	U	343	ug/kg	68.5	343
56-55-3	Benzo(a)anthracene	U	34.3	ug/kg	10.3	34.3
91-94-1	3,3'-Dichlorobenzidine	U	343	ug/kg	103	343
218-01-9	Chrysene	U	34.3	ug/kg	10.3	34.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	343	ug/kg	68.5	343
117-84-0	Di-n-octylphthalate	U	343	ug/kg	68.5	343
205-99-2	Benzo(b)fluoranthene	U	34.3	ug/kg	10.3	34.3
207-08-9	Benzo(k)fluoranthene	U	34.3	ug/kg	10.3	34.3
50-32-8	Benzo(a)pyrene	U	34.3	ug/kg	10.3	34.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.3	ug/kg	10.3	34.3
53-70-3	Dibenzo(a,h)anthracene	U	34.3	ug/kg	10.3	34.3
191-24-2	Benzo(ghi)perylene	U	34.3	ug/kg	10.3	34.3
120-82-1	1,2,4-Trichlorobenzene	U	343	ug/kg	68.5	343

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.02	193	ug/kg		J
	Unknown Aldol Condensate	2.87	1020	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332003	Date Received: 02/18/2010 08:45	%Moisture: 2.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8347	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 17:50	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s4c0415.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	259	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.12	435	ug/kg	93	NJ

Data File: /chem/MSD4.i/s030410a.b/s4c0415.d
Report Date: 05-Mar-2010 08:09

Page 1

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Data file : /chem/MSD4.i/s030410a.b/s4c0415.d
Lab Smp Id: 247332003 Client Smp ID: RE15-10-8347
Inj Date : 04-MAR-2010 17:50
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332003|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.01000	weight of sample
M	2.74020	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829	(1.000)	149394	40.0000	
* 29 Naphthalene-d8	136	4.684	4.690	(1.000)	560353	40.0000	
* 46 Acenaphthene-d10	164	5.936	5.941	(1.000)	324799	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936	(1.000)	562380	40.0000	
* 91 Chrysene-d12	240	8.605	8.610	(1.000)	460437	40.0000	
* 98 Perylene-d12	264	10.054	10.070	(1.000)	335993	40.0000	
\$ 3 2-Fluorophenol	112	3.026	3.021	(0.792)	260259	74.8921	2560
\$ 5 Phenol-d5	99	3.540	3.545	(0.926)	305595	70.4695	2410
\$ 20 Nitrobenzene-d5	82	4.182	4.192	(0.893)	123706	30.9665	1060
\$ 39 2-Fluorobiphenyl	172	5.428	5.433	(0.914)	281412	32.2633	1100
\$ 60 2,4,6-Tribromophenol	329	6.476	6.481	(1.091)	78389	82.1090	2810
\$ 81 p-Terphenyl-d14	244	7.861	7.861	(0.914)	324825	44.2238	1520

ION RATIO REPORT

SV REPORT

Data file: s4c0415.d

Report Date: 03/05/2010 07:55

Lab. ID: 247332003

SampleType: SAMPLE

Injection Date: 04-MAR-2010 17:50

Operator: JMB3

Instrument: MSD4.i

Sample Info: |247332003|956285|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	16272	3.54	3.61	80-120	100	(T)
93	76	3.63	3.61	453-513	0	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	17193	4.18	4.07	80-120	100	(T)
42	8490	4.18	4.07	27- 87	49	(T)

43	Dimethylphthalate	CAS#: 131-11-3				
163	56701	5.94	5.71	80-120	100	(T)
164	324799	5.94	5.71	0- 40	573	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	42499	5.94	5.77	80-120	100	(T)
63	377	5.94	5.77	53-113	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	42499	5.94	6.05	80-120	100	(T)
89	589	5.94	6.05	53-113	1	(QT)
63	377	5.94	6.05	24- 84	1	(QT)

53	Fluorene	CAS#: 86-73-7				
166	4004	6.48	6.32	80-120	100	(T)
165	4129	6.48	6.32	62-122	103	(T)
167	1284	6.48	6.32	0- 44	32	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
55	2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1		
198	262	6.48	6.34	80-120	100	(T)
105	667	6.48	6.34	16- 76	254	(QT)
51	348	6.48	6.34	35- 95	132	(QT)

94	Di-n-octylphthalate			CAS#: 117-84-0		
149	162	9.26	9.02	80-120	100	(T)
43	216	9.26	9.02	0- 40	133	(QT)

Q qualifier indicates ion failed ratio requirement						

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Data file : /chem/MSD4.i/s030410a.b/s4c0415.d
 Lab Smp Id: 247332003 Client Smp ID: RE15-10-8347
 Inj Date : 04-MAR-2010 17:50
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |247332003|956285|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
 Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.01000	weight of sample
M	2.74020	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	3.823	894990	40.000
* 46 Acenaphthene-d10	5.936	1362391	40.000
* 91 Chrysene-d12	8.605	1219766	40.000

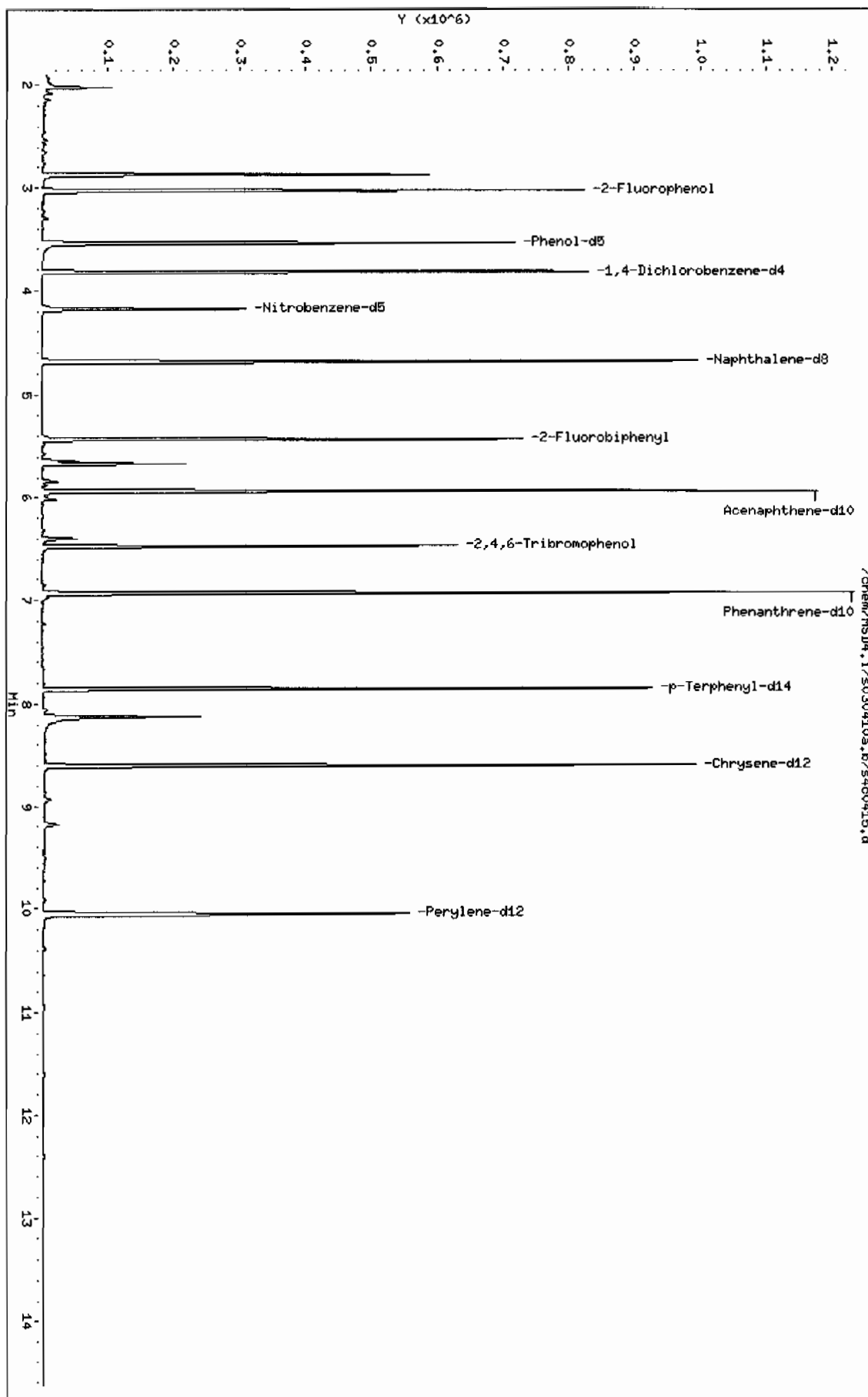
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
2.021	126227	5.64150132	193	0		0	10
Unknown Aldol Condensate					CAS #:		
2.871	665624	29.7488594	1020	0		0	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.668	257380	7.55670873	259	99	NIST05.L	60018	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.123	387536	12.7085488	435	93	NIST05.L	116238	91

Data File: /chem/MSD4.i/s030410a,b/s400415.d
Date : 04-MAR-2010 17:50
Client ID: REIS-10-8347
Sample Info: 12473320031956285111SWH11L1ANL
Volume Injected (uL): 0.5
Column Phase: J&W DB-SHS

Instrument: MSD4.i
Operator: JHB3
Column diameter: 0.20

Page 1



Date : 04-MAR-2010 17:50

Client ID: RE15-10-8347

Instrument: MSD4,i

Sample Info: I247332003I956285I1ISVH11ILANL

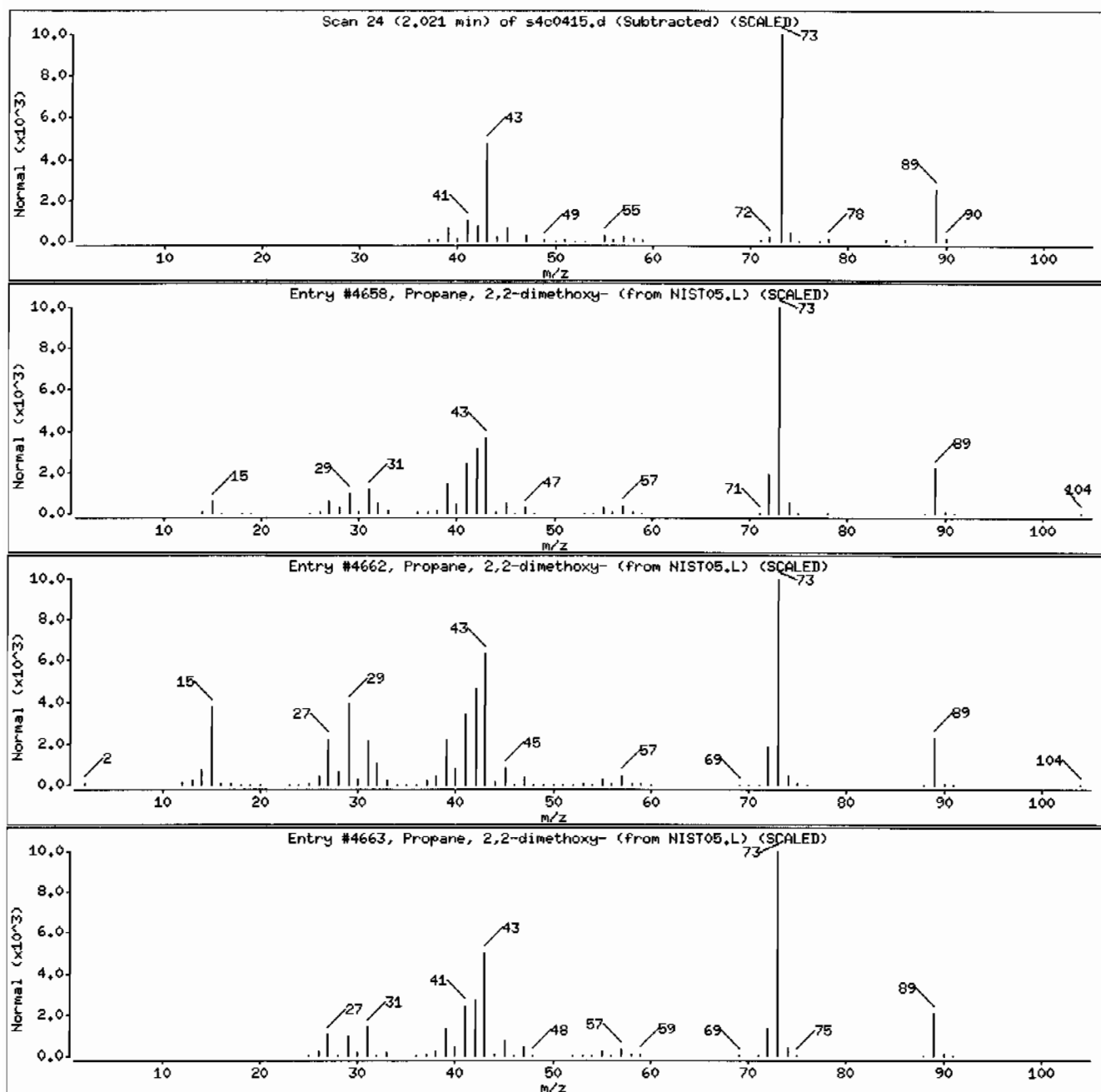
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4658	50	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	50	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	50	C5H12O2	104



Date : 04-MAR-2010 17:50

Client ID: RE15-10-8347

Instrument: MSD4.i

Sample Info: 12473320031956285111SVMI11LANL

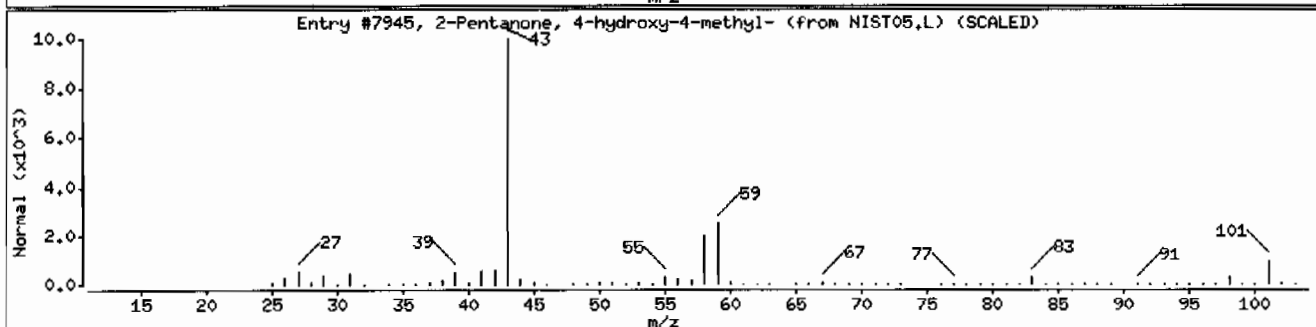
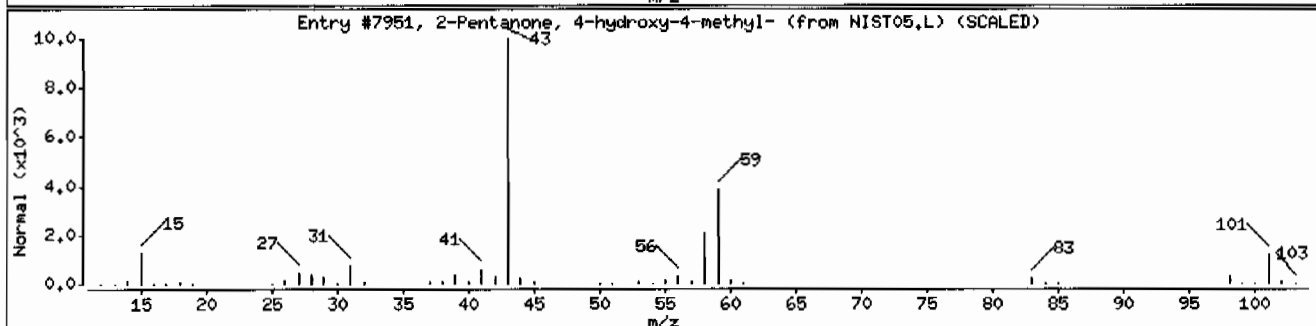
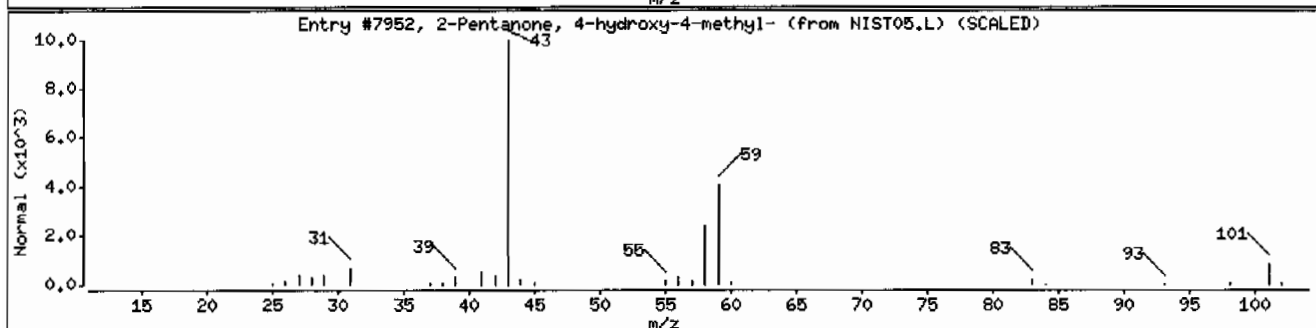
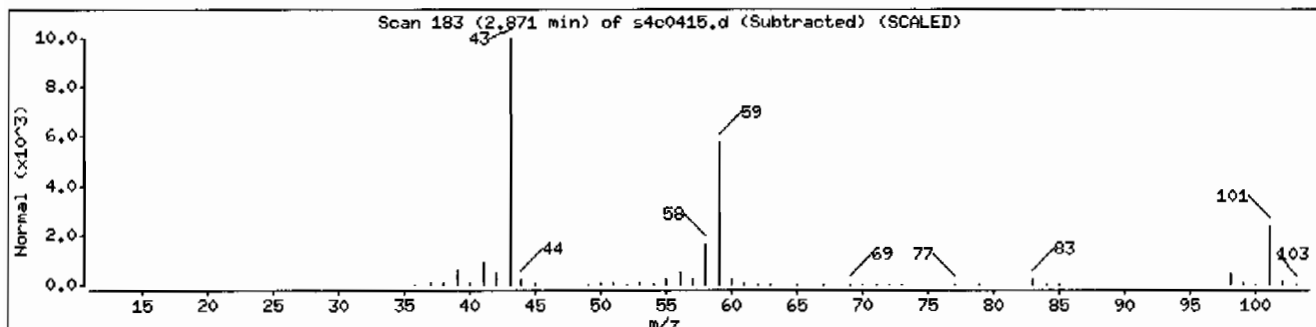
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	38	C6H12O2	116



Date : 04-MAR-2010 17:50

Client ID: RE15-10-8347

Instrument: MSD4.i

Sample Info: 1247332003195628511SVH111LANL

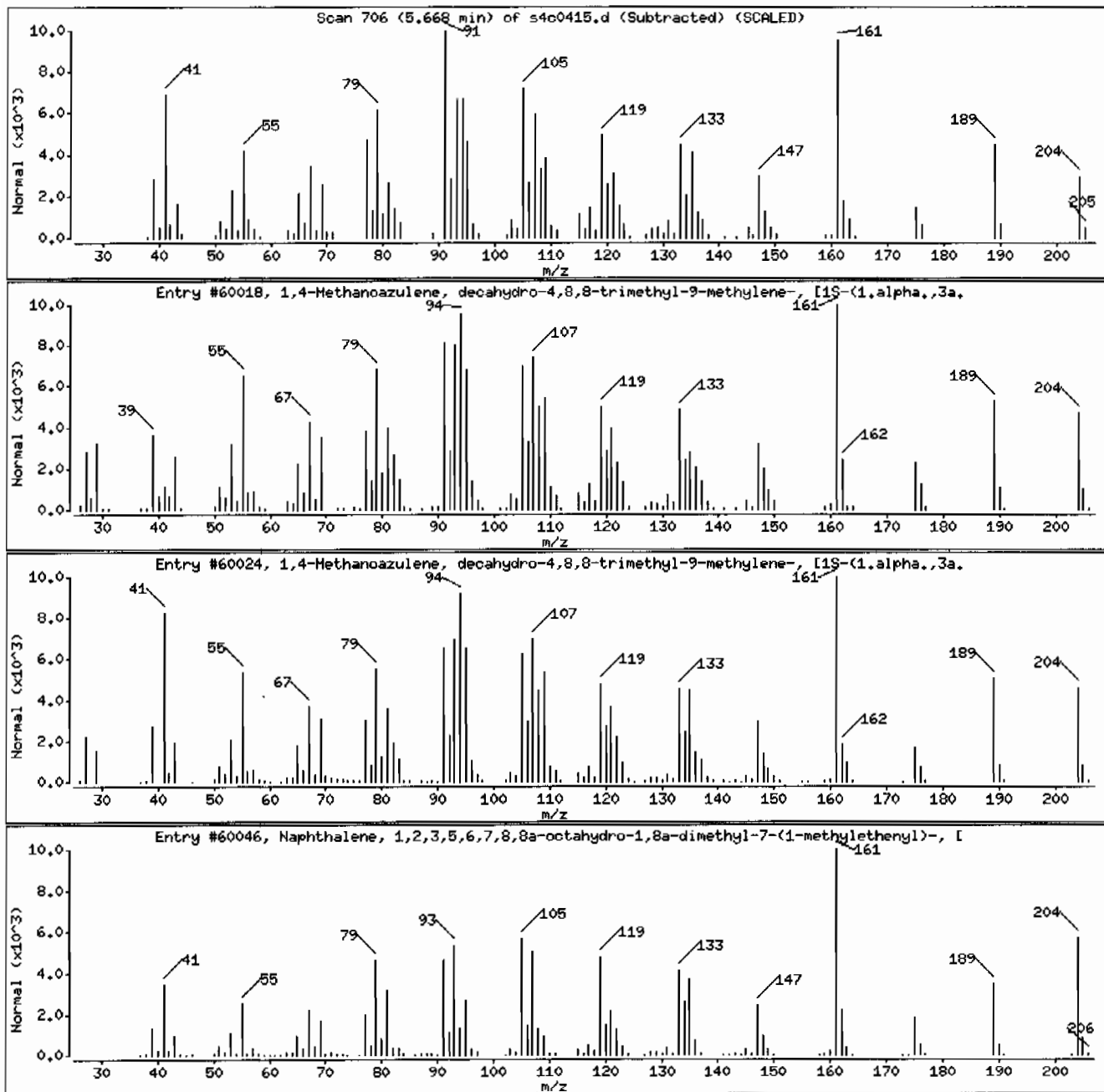
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	99	C15H24	204
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	96	C15H24	204



Date : 04-MAR-2010 17:50

Client ID: RE15-10-8347

Instrument: MSD4.i

Sample Info: 1247332003195628511SVMI1ILANL

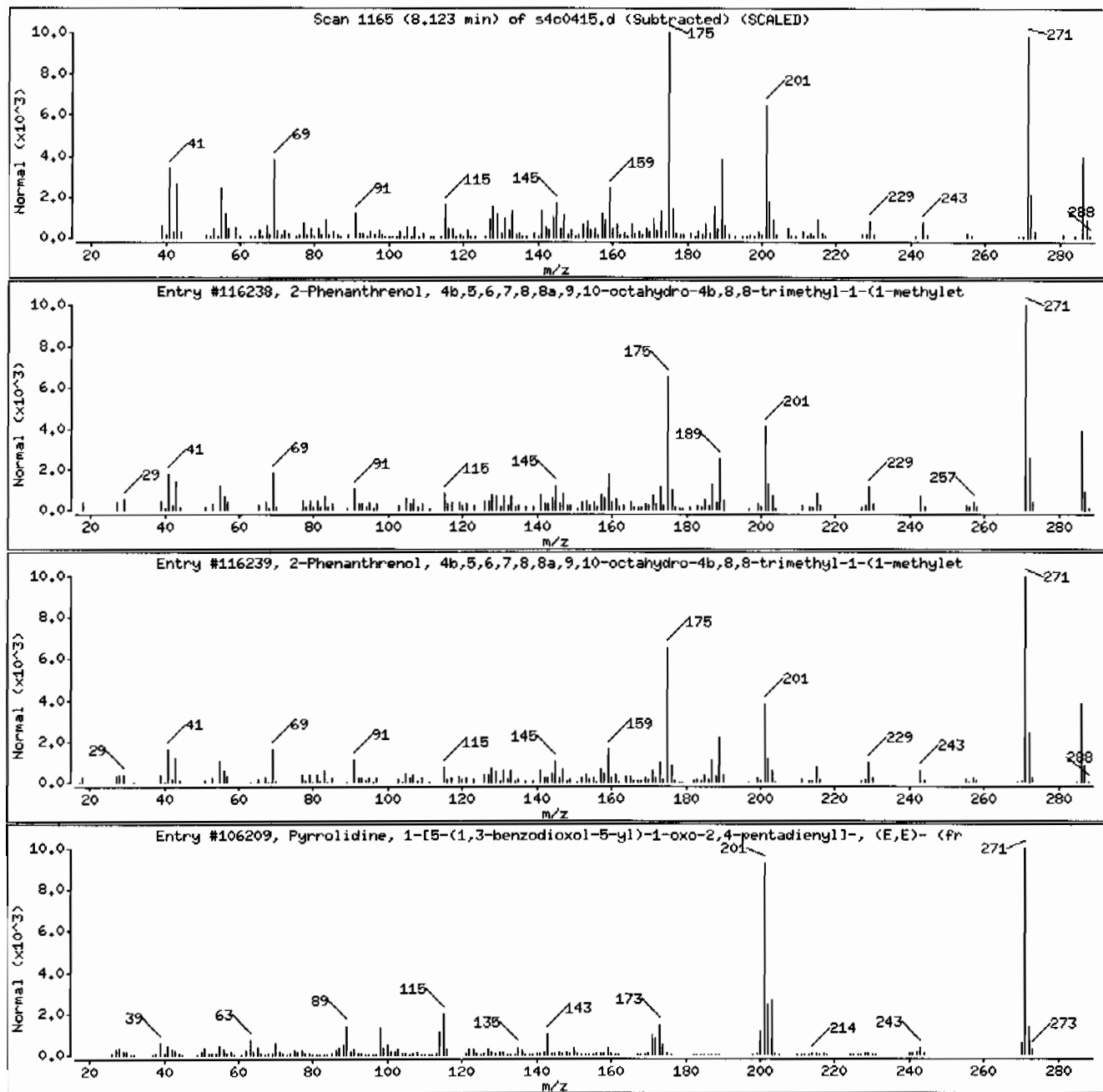
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	116238	93	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05,L	116239	93	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	NIST05,L	106209	30	C16H17NO3	271



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 19:42	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0420.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.4	352
108-95-2	Phenol	U	352	ug/kg	70.4	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.4	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.4	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.4	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.4	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.0	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.4	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.4	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.4	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.4	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.4	352
95-48-7	o-Cresol	U	352	ug/kg	70.4	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.4	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.4	352
78-59-1	Isophorone	U	352	ug/kg	70.4	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.4	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.4	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.4	352
65-85-0	Benzoic acid	U	704	ug/kg	176	704
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.4	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.4	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.04	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.4	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.4	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.4	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.4	352
99-09-2	<i>o</i> -Nitroaniline	U	352	ug/kg	70.4	352
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.I	Dilution: 1
Run Date: 03/04/2010 19:42	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0420.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	352	ug/kg	70.4	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	704	ug/kg	134	704
132-64-9	Dibenzofuran	U	352	ug/kg	70.4	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.4	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.4	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.4	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.4	352
122-66-7	Azobenzene	U	352	ug/kg	70.4	352
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.4	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.4	352
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	7.04	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.4	352
206-44-0	Fluoranthene	J	13.6	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.4	352
56-55-3	Benzo(a)anthracene	U	35.2	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene	U	35.2	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.4	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.4	352
205-99-2	Benzo(b)fluoranthene	U	35.2	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	U	35.2	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.4	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	802	ug/kg		J
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.64	700	ug/kg	86	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Date Collected: 02/12/2010 12:00	Matrix: R
Lab Sample ID: 247332008	Date Received: 02/18/2010 08:45	%Moisture: 5.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8377	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 956285	Inst: MSD4.1	Dilution: 1
Run Date: 03/04/2010 19:42	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/23/2010 10:34	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4c0420.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.67	2380	ug/kg	99	NJ
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	5.84	332	ug/kg	90	NJ
19912-83-5	Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	6.02	290	ug/kg	97	NJ
19870-75-8	Cedrane, 8-propoxy-	6.4	922	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.13	5650	ug/kg	98	NJ
	Unknown	8.94	1020	ug/kg		J

Data File: /chem/MSD4.i/s030410a.b/s4c0420.d
Report Date: 05-Mar-2010 08:16

Page 1

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Data file : /chem/MSD4.i/s030410a.b/s4c0420.d
Lab Smp Id: 247332008 Client Smp ID: RE15-10-8377
Inj Date : 04-MAR-2010 19:42
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |247332008|956285|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	5.35260	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829 (1.000)	167568	40.0000	
* 29 Naphthalene-d8	136	4.690	4.690 (1.000)	617086	40.0000	
* 46 Acenaphthene-d10	164	5.941	5.941 (1.000)	360664	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936 (1.000)	607205	40.0000	
* 91 Chrysene-d12	240	8.605	8.610 (1.000)	454551	40.0000	
* 98 Perylene-d12	264	10.054	10.070 (1.000)	296856	40.0000	
\$ 3 2-Fluorophenol	112	3.031	3.021 (0.793)	282391	72.4475	2550
\$ 5 Phenol-d5	99	3.545	3.545 (0.927)	343286	70.5753	2480
\$ 20 Nitrobenzene-d5	82	4.187	4.192 (0.893)	135881	30.8870	1090
\$ 39 2-Fluorobiphenyl	172	5.433	5.433 (0.914)	317731	32.8048	1160
\$ 60 2,4,6-Tribromophenol	329	6.481	6.481 (1.091)	88394	83.3816	2940
\$ 81 p-Terphenyl-d14	244	7.856	7.861 (0.913)	342865	47.2843	1660

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
76 Fluoranthene	202	7.663	7.669	(1.105)	4664	0.38698	13.6(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

ION RATIO REPORT

SV REPORT

Data file: s4c0420.d

Report Date: 03/05/2010 07:57

Lab. ID: 247332008

SampleType: SAMPLE

Injection Date: 04-MAR-2010 19:42

Operator: JMB3

Instrument: MSD4.i

Sample Info: |247332008|956285|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1905

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	18079	3.54	3.61	80-120	100	(T)
93	881	3.59	3.61	453-513	5	(Q)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	18944	4.19	4.07	80-120	100	(T)
42	9111	4.18	4.07	27- 87	48	(T)

40	2-Chloronaphthalene		CAS#: 91-58-7			
162	32889	5.67	5.54	80-120	100	(T)
164	1710	5.67	5.54	3- 63	5	(T)
127	2545	5.67	5.54	8- 68	8	(T)

42	o-Nitroaniline		CAS#: 88-74-4			
65	9262	5.64	5.60	80-120	100	()
92	29521	5.64	5.60	35- 95	319	(Q)
138	3341	5.67	5.60	79-139	36	(QT)

43	Dimethylphthalate		CAS#: 131-11-3			
163	63013	5.94	5.71	80-120	100	(T)
164	360664	5.94	5.71	0- 40	572	(QT)

44	2,6-Dinitrotoluene		CAS#: 606-20-2			
165	48160	5.94	5.77	80-120	100	(T)
63	920	5.94	5.77	53-113	2	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	48160	5.94	6.05	80-120	100	(T)
89	748	5.94	6.05	53-113	2	(QT)
63	920	5.94	6.05	24- 84	2	(QT)

51 Diethylphthalate				CAS#: 84-66-2		
149	20551	6.40	6.20	80-120	100	(T)
177	5142	6.40	6.20	0- 52	25	(T)
150	81586	6.40	6.20	0- 42	397	(QT)

53 Fluorene				CAS#: 86-73-7		
166	3636	6.40	6.32	80-120	100	(T)
165	10447	6.40	6.32	62-122	287	(QT)
167	744	6.40	6.32	0- 44	20	(T)

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	284	6.48	6.34	80-120	100	(T)
105	1281	6.48	6.34	16- 76	450	(QT)
51	660	6.48	6.34	35- 95	232	(QT)

69 Anthracene				CAS#: 120-12-7		
178	3950	6.95	6.98	80-120	100	()
179	1112	6.94	6.98	0- 46	28	()
176	868	6.95	6.98	0- 49	22	()

76 Fluoranthene				CAS#: 206-44-0		
202	4664	7.66	7.67	80-120	100	()
203	874	7.66	7.67	0- 48	19	()
101	583	7.66	7.67	0- 42	13	()

79 Pyrene				CAS#: 129-00-0		
202	4664	7.66	7.81	80-120	100	(T)
200	919	7.66	7.81	0- 51	20	(T)
101	583	7.66	7.81	0- 44	13	(T)

85 Butylbenzylphthalate				CAS#: 85-68-7		
149	11788	8.13	8.13	80-120	100	()
91	40102	8.13	8.13	40-100	340	(Q)
206	288	8.13	8.13	0- 51	2	()

89 Benzo(a)anthracene				CAS#: 56-55-3		
228	5156	8.60	8.60	80-120	100	()
226	887	8.60	8.60	0- 56	17	()
229	2925	8.60	8.60	0- 50	57	(Q)

92 Chrysene				CAS#: 218-01-9		
228	5156	8.60	8.63	80-120	100	()
229	2925	8.60	8.63	0- 50	57	(Q)
226	887	8.60	8.63	0- 59	17	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
94	Di-n-octylphthalate			CAS#: 117-84-0		
149	131	9.04	9.02	80-120	100	()
43	20468	8.94	9.02	0- 40	15590	(QT)

 Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

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Data file : /chem/MSD4.i/s030410a.b/s4c0420.d
 Lab Smp Id: 247332008 Client Smp ID: RE15-10-8377
 Inj Date : 04-MAR-2010 19:42
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |247332008|956285|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
 Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	5.35260	% moisture

Cpnd Variable

Local Compound Variable

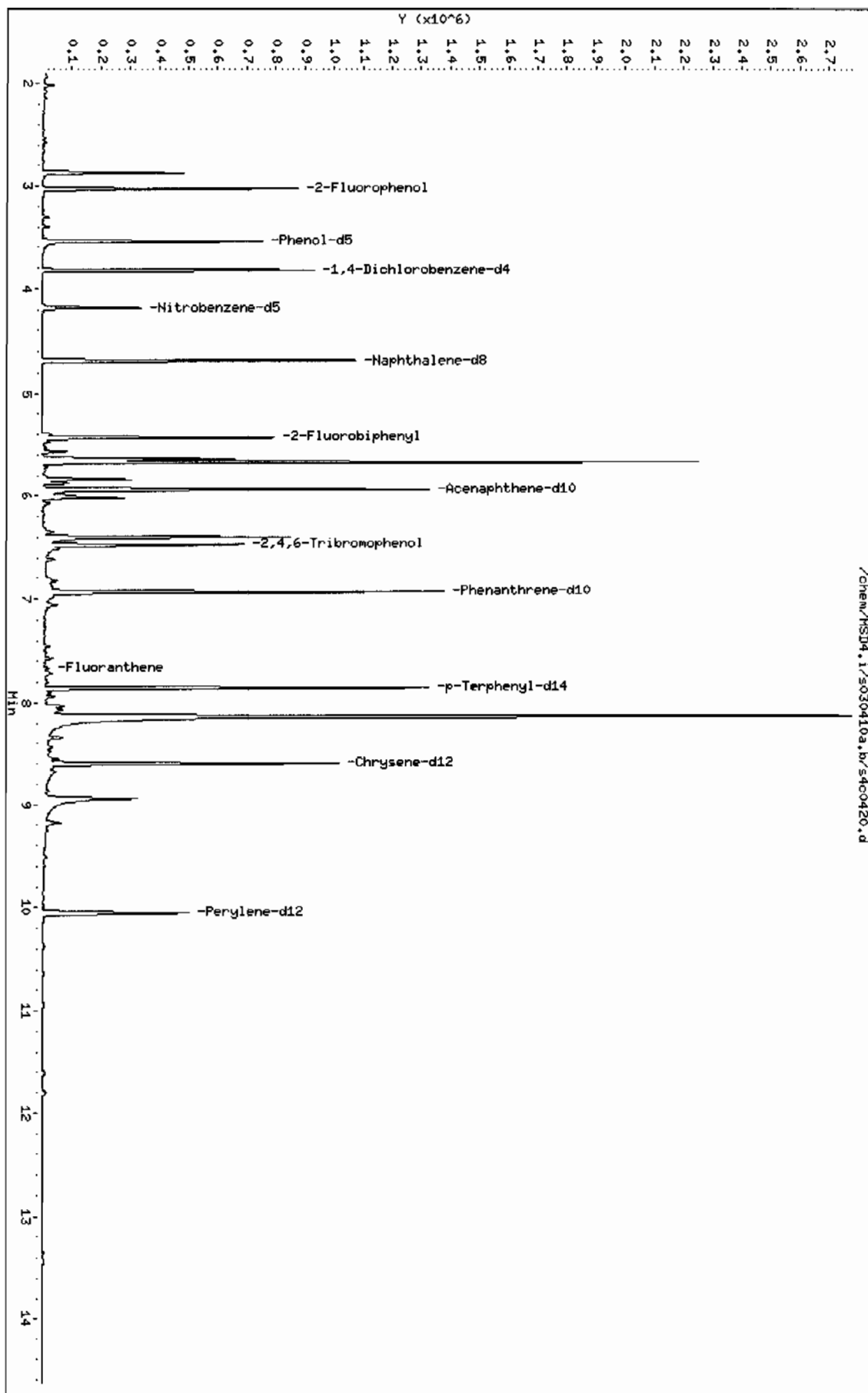
ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	3.823	986219	40.000
* 46 Acenaphthene-d10	5.941	1710891	40.000
* 91 Chrysene-d12	8.605	1231187	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.871	561697	22.7818169	802	0		0	10
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6					CAS #: 5989-08-2		
5.636	849687	19.8653640	700	86	NIST05.L	59909	46
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.674	2890772	67.5851748	2380	99	NIST05.L	60024	46
1,5,5-Trimethyl-6-methylene-cyclohexene					CAS #: 514-95-4		
5.839	402858	9.41866369	332	90	NIST05.L	15292	46
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr					CAS #: 19912-83-5		
6.016	351826	8.22555131	290	97	NIST05.L	59904	46
Cedrane, 8-propoxy-					CAS #: 19870-75-8		
6.401	1119219	26.1669136	922	94	NIST05.L	101502	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.134	4940360	160.507182	5650	98	NIST05.L	116239	91
Unknown					CAS #:		
8.942	891393	28.9604401	1020	0		0	91

Data File: /chem/HSD4.i/s030410a.b/s400420.d
Date : 04-MAR-2010 19:42
Client ID: RE15-10-8377
Sample Info: 12473320081956286141SVH11L4NL
Volume Injected (uL): 0.5
Column phase: 3M DB-5MS

Instrument: HSD4.i
Operator: JMB3
Column diameter: 0.20



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: MSD4.i

Sample Info: 1247332008195628511SVH111LANL

Volume Injected (uL): 0.5

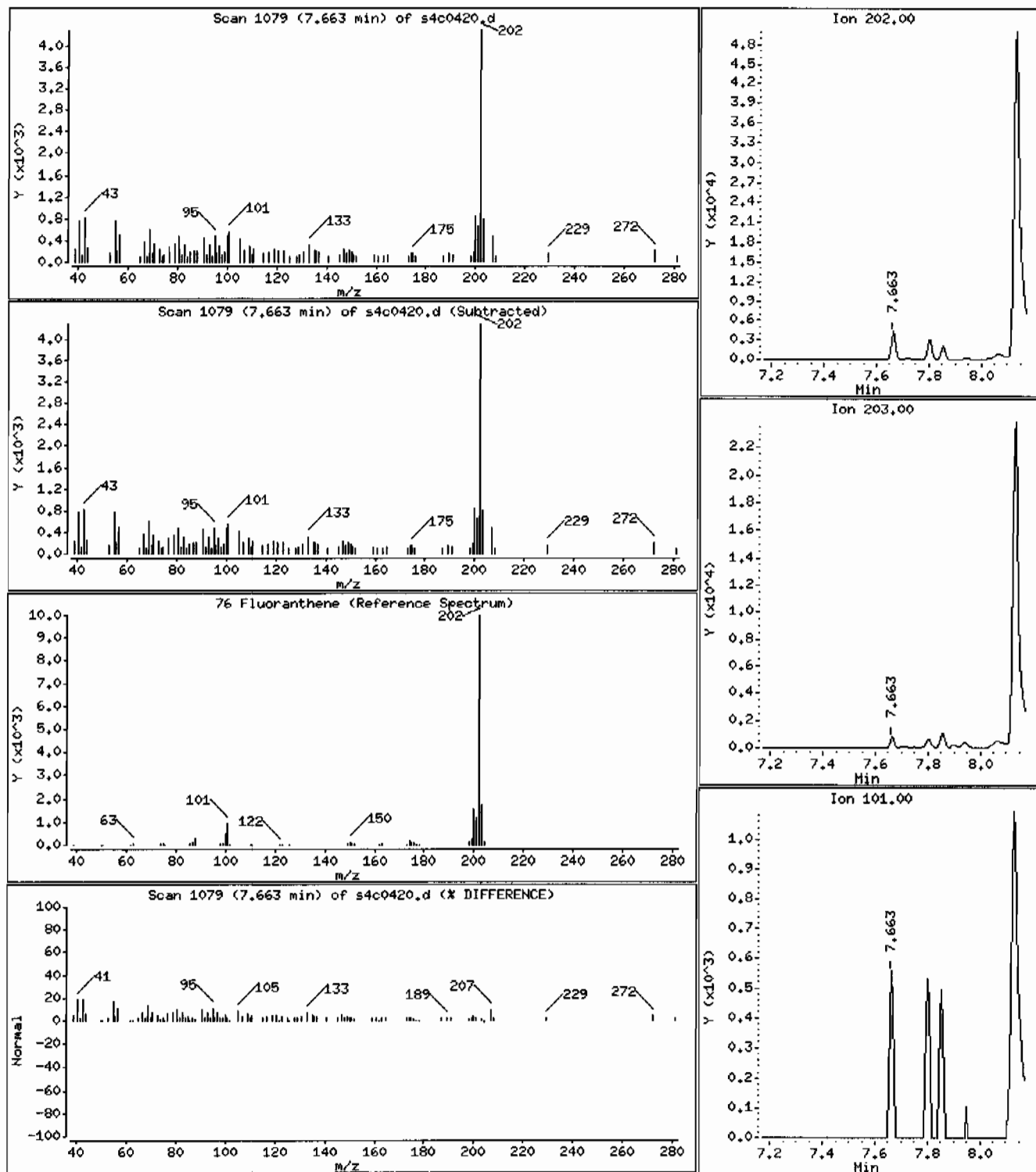
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 13.6 ug/Kg



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: MSD4.i

Sample Info: 1247332008195628511SVMI11LANL

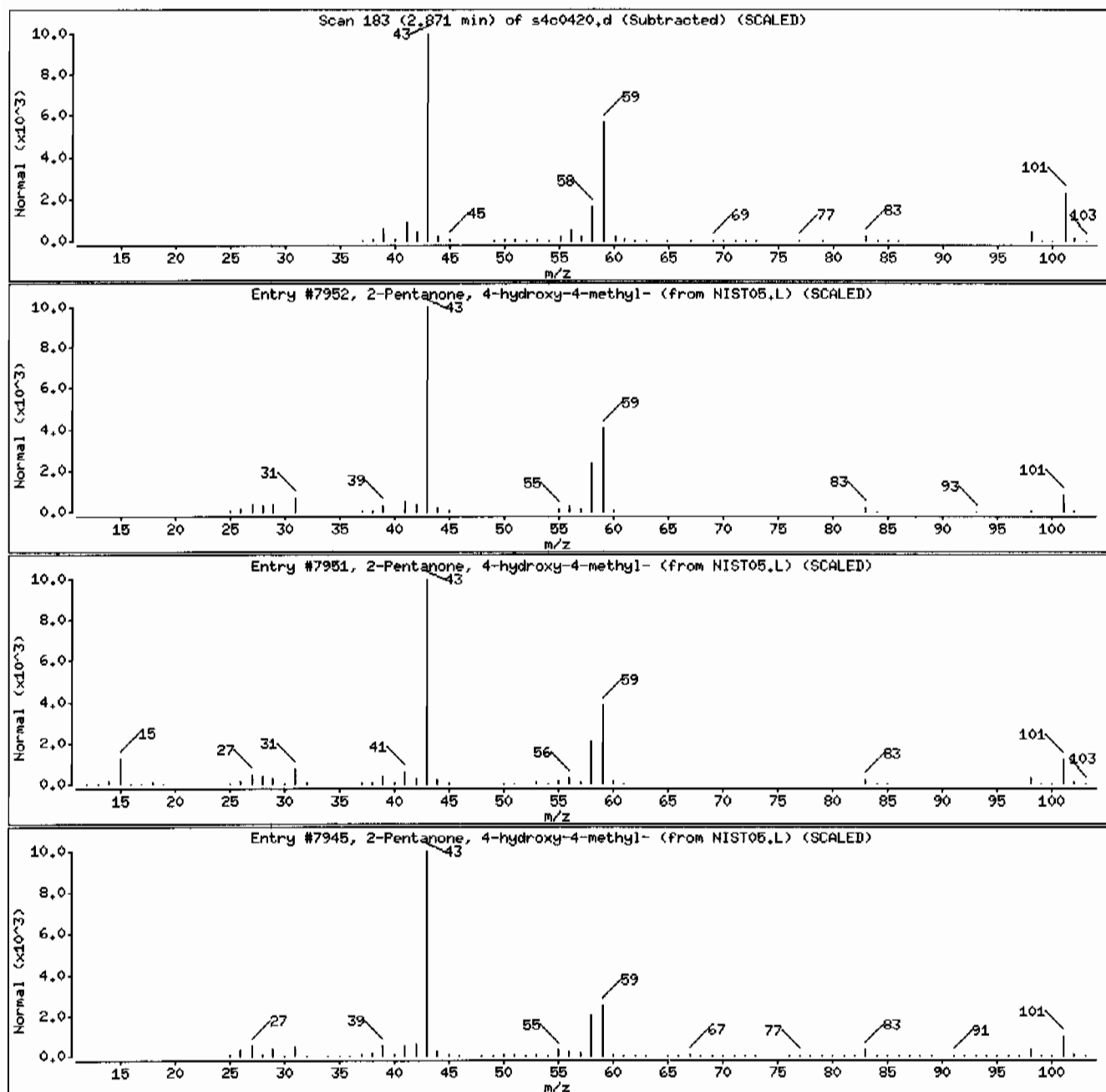
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	38	C6H12O2	116



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: HSD4.i

Sample Info: I247332008195628511/SVM111/LANL

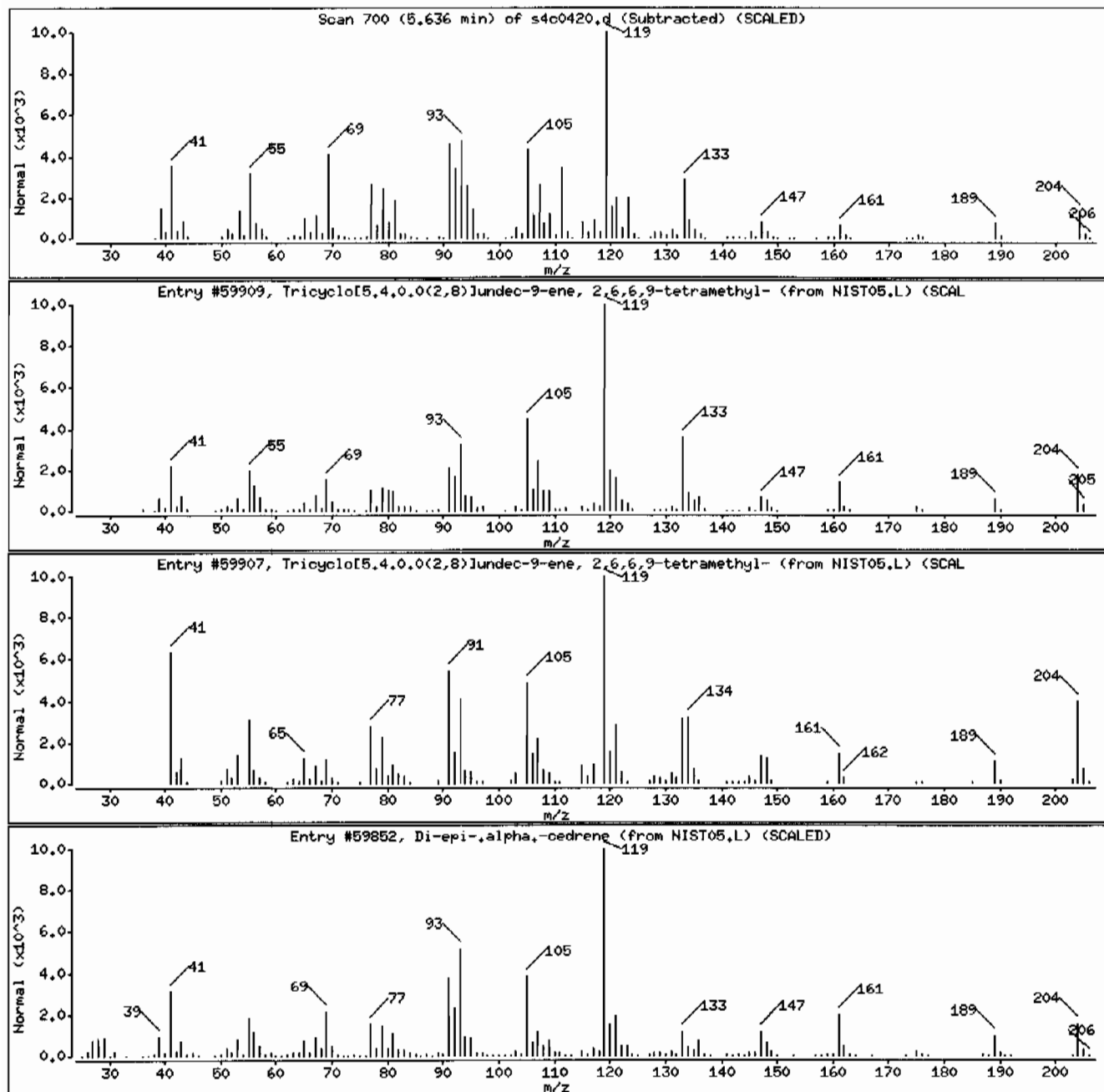
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59909	86	C15H24	204
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59907	70	C15H24	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	58	C15H24	204



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: MSD4.i

Sample Info: I247332008195628511ISVH111LANL

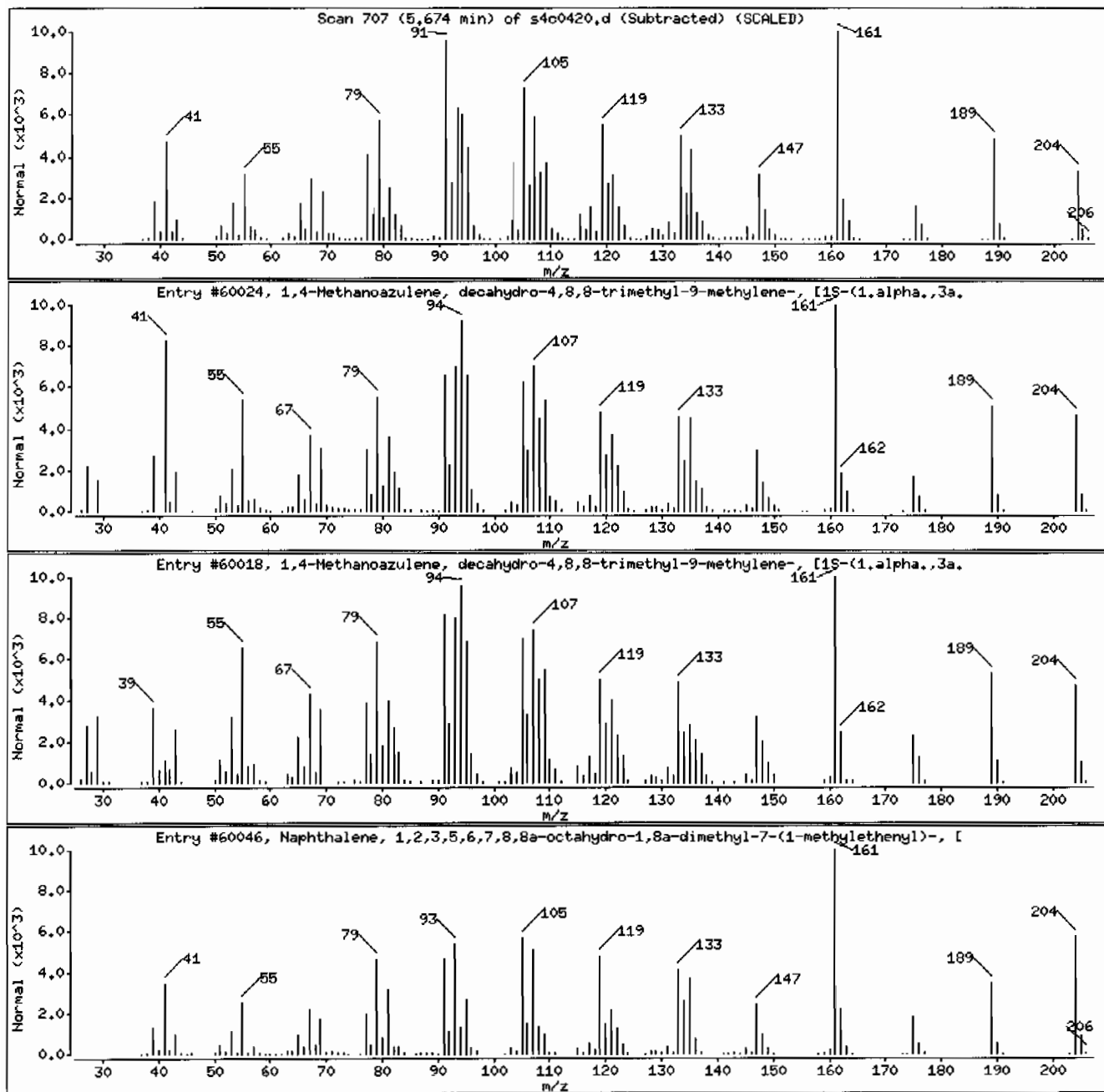
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	98	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	97	C15H24	204



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: MSD4.i

Sample Info: 1247332008195628511SVH11ILANL

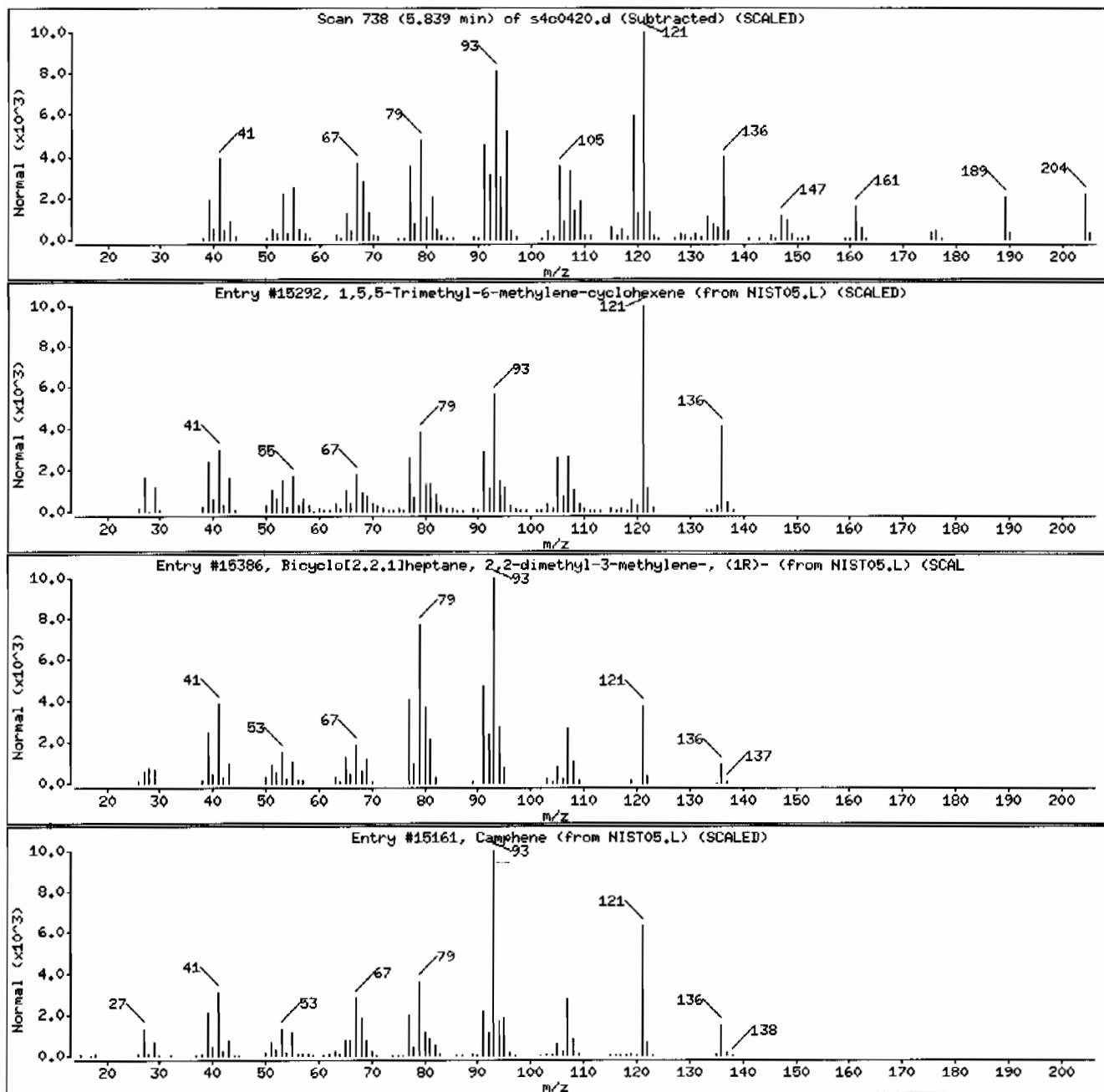
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	90	C10H16	136
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-03-6	NIST05.L	15386	83	C10H16	136
Camphene	79-92-5	NIST05.L	15161	83	C10H16	136



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: MSD4.i

Sample Info: 1247332008195628511SVMI1ILANL

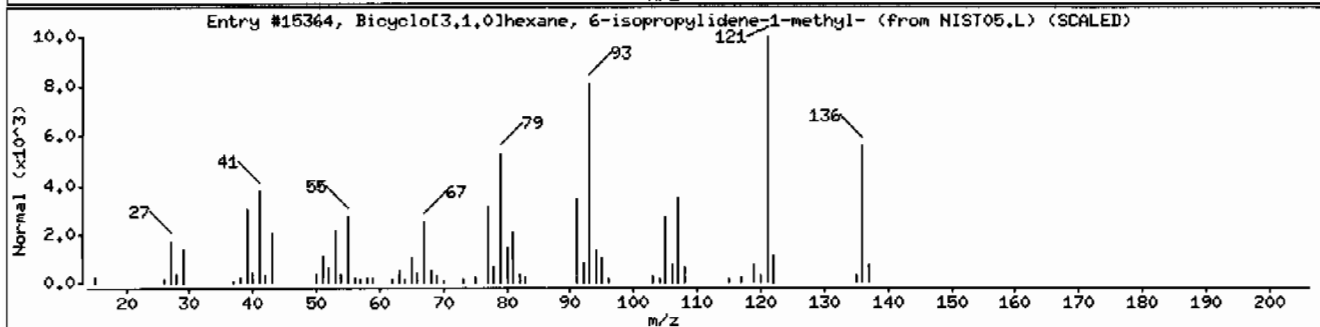
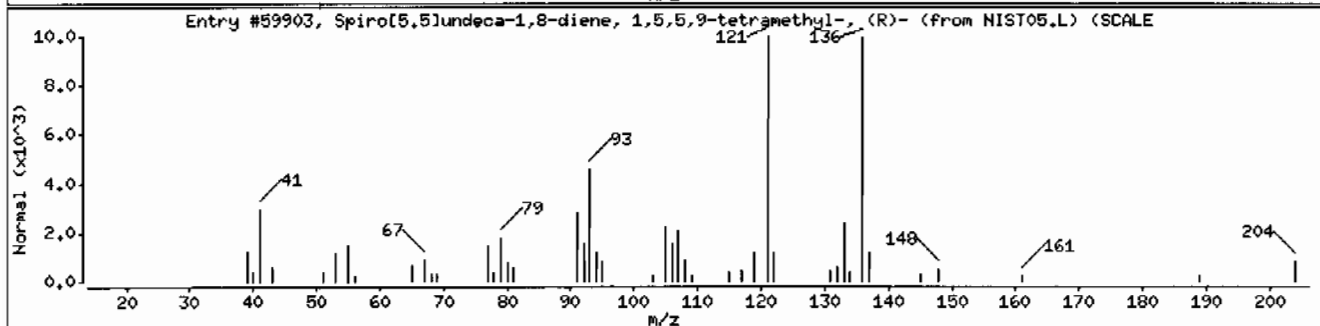
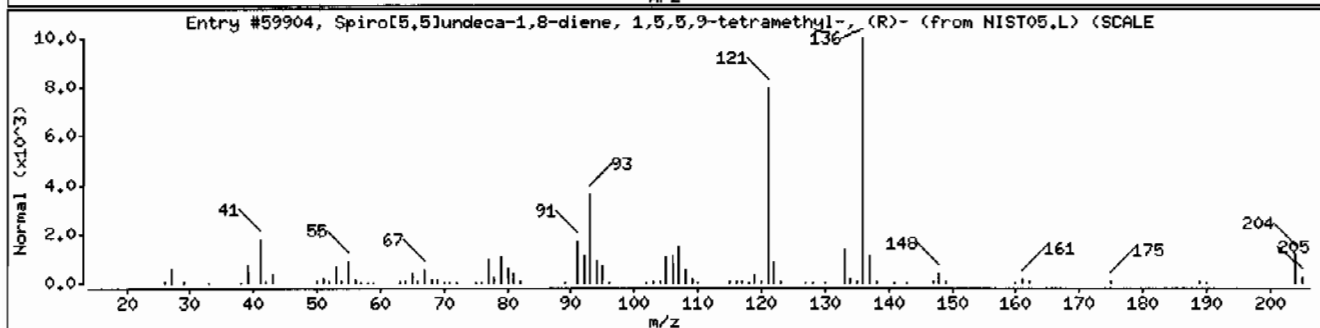
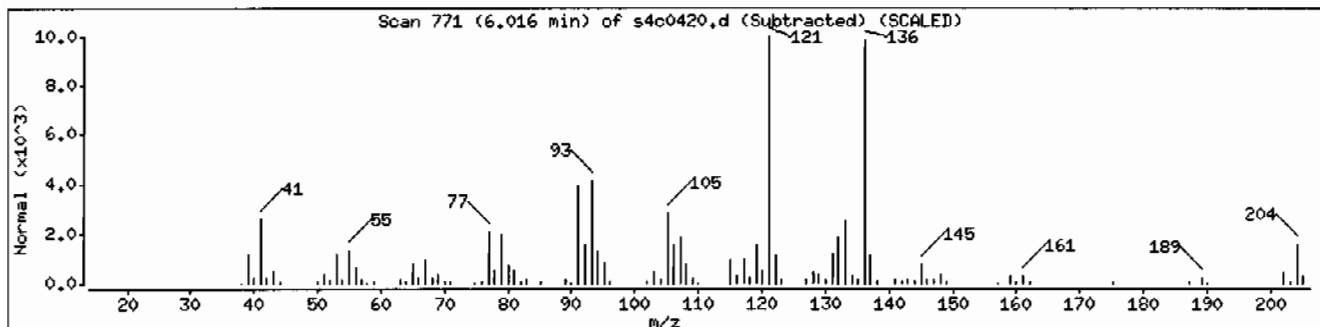
Volume Injected (UL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59904	97	C15H24	204
Spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetr	19912-83-5	NIST05.L	59903	94	C15H24	204
Bicyclo[3.1.0]hexane, 6-isopropylidene-1	24524-57-0	NIST05.L	15364	81	C10H16	136



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: MSD4.i

Sample Info: 1247332008195628511ISVH11ILANL

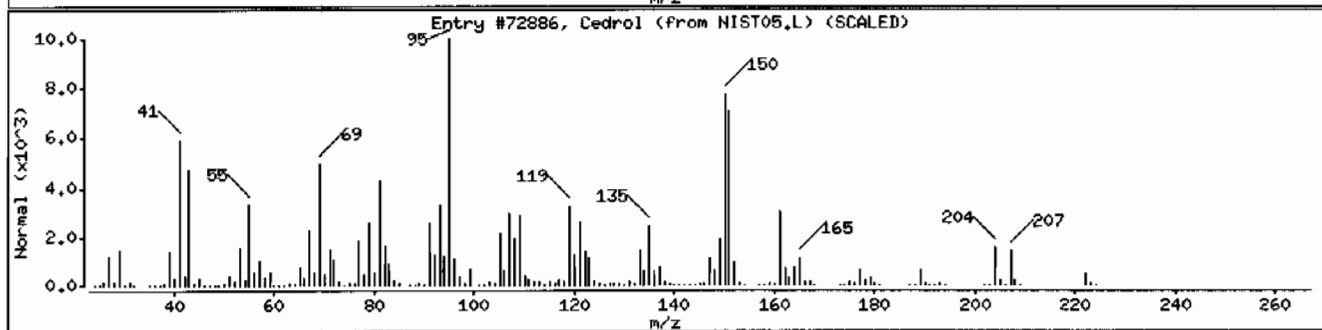
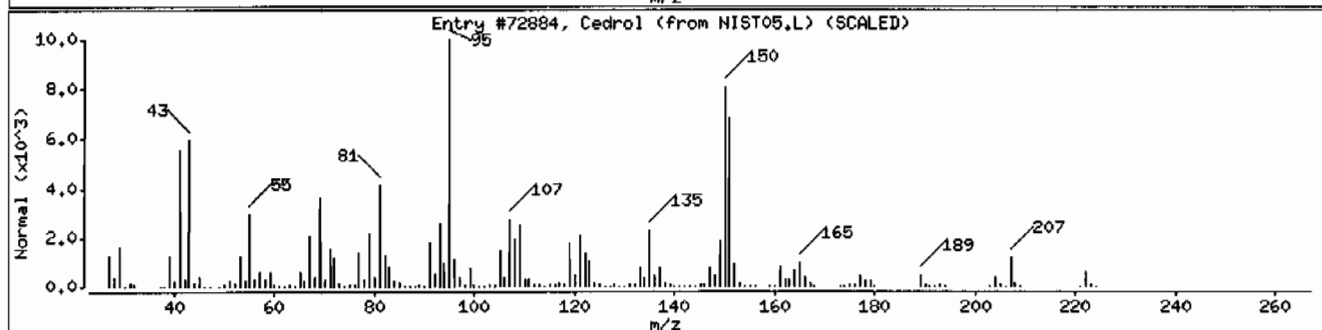
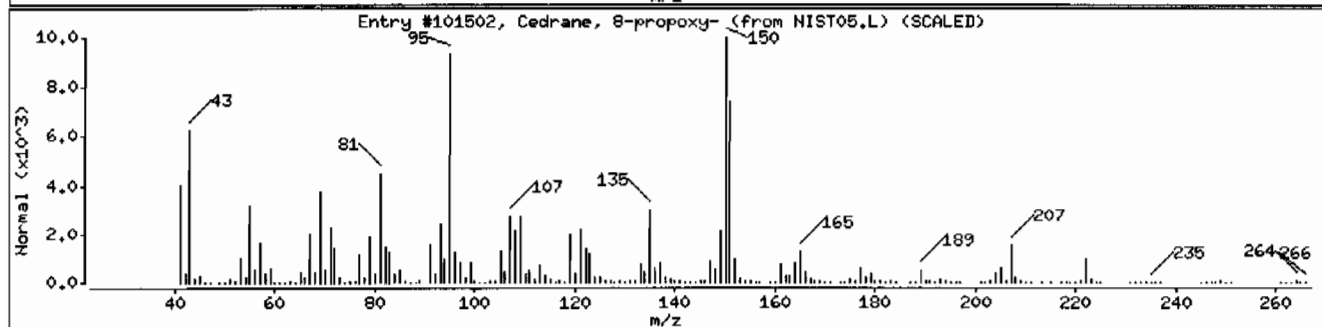
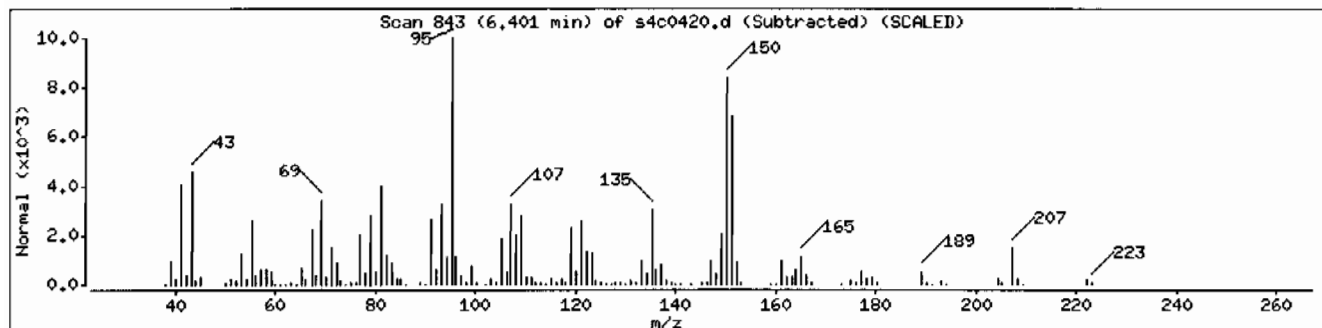
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	94	C18H32O	264
Cedrol	77-53-2	NIST05.L	72884	94	C15H26O	222
Cedrol	77-53-2	NIST05.L	72886	91	C15H26O	222



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: MSD4.i

Sample Info: 1247332008195628511SVH111LANL

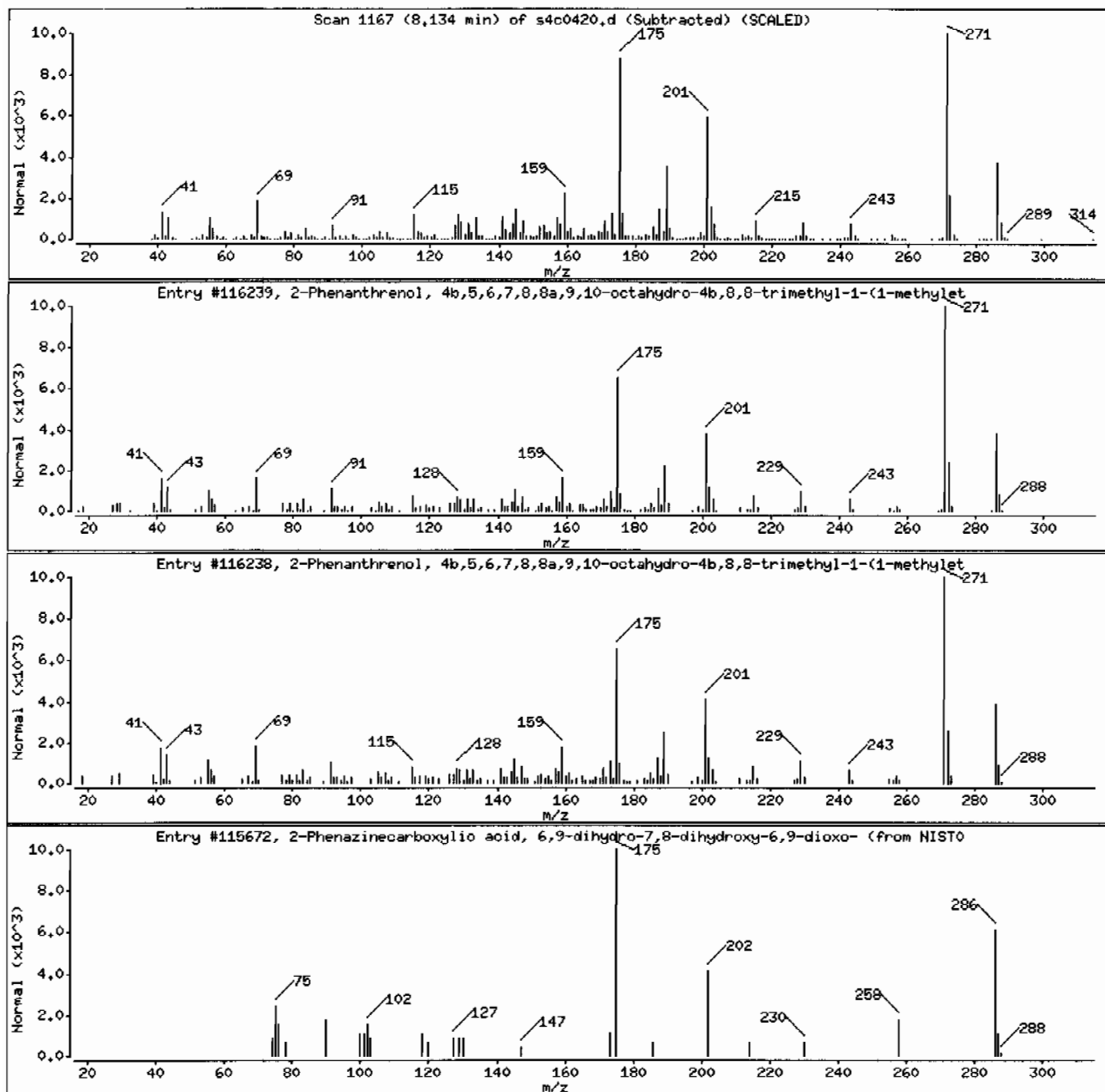
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	90	C20H30O	286
2-Phenazinecarboxylic acid, 6,9-dihydro-	23774-17-6	NIST05.L	115672	25	C13H6N2O6	286



Date : 04-MAR-2010 19:42

Client ID: RE15-10-8377

Instrument: HSD4.i

Sample Info: 1247332008195628511SVMI11LANL

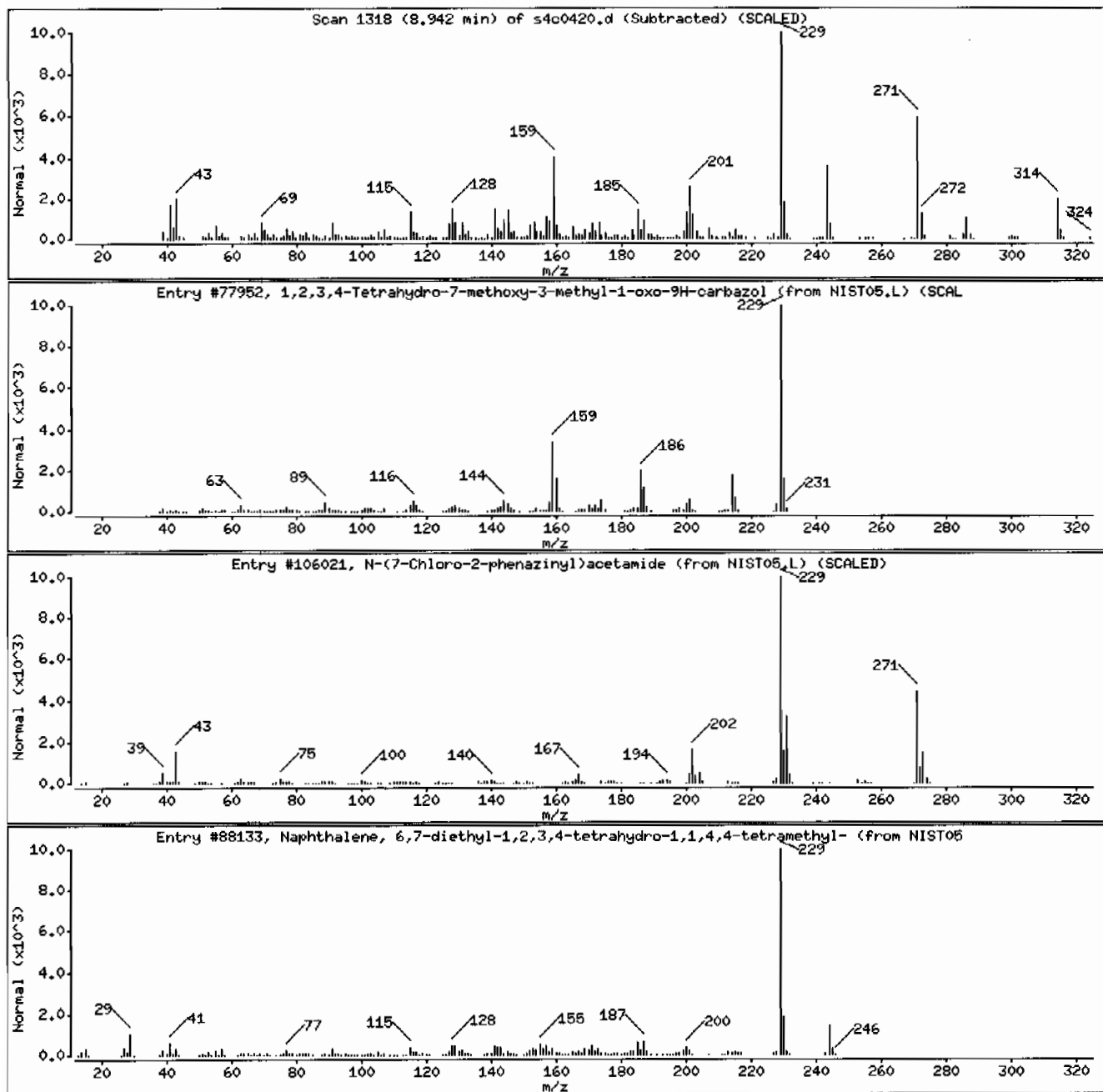
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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
Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	55741-10-1	NIST05.L	88133	30	C18H28	244



Standard Data

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
1,4-Dichlorobenzene-d4 (INTERNAL STANDARD)								
Naphthalene-d8 (INTERNAL STANDARD)								
Acenaphthene-d10 (INTERNAL STANDARD)								
Phenanthrene-d10 (INTERNAL STANDARD)								
Chrysene-d12 (INTERNAL STANDARD)								
Perylene-d12 (INTERNAL STANDARD)								
2-Fluorophenol (SURROGATE)		10	20	40	50	80	100	120
Phenol-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Chlorophenol-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
1,2-Dichlorobenzene-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
Nitrobenzene-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Fluorobiphenyl (SURROGATE)		10	20	40	50	80	100	120
2,4,6-Tribromophenol (SURROGATE)		10	20	40	50	80	100	120
p-Terphenyl-d14 (SURROGATE)		10	20	40	50	80	100	120
N-Nitrosodimethylamine	1**	10	20	40	50	80	100	120
Pyridine		10	20	40	50	80	100	120
Aniline		10	20	40	50	80	100	120
Phenol		10	20	40	50	80	100	120
bis(2-Chloroethyl)ether		10	20	40	50	80	100	120
2-Chlorophenol		10	20	40	50	80	100	120
n-Decane		10	20	40	50	80	100	120
1,3-Dichlorobenzene		10	20	40	50	80	100	120
1,4-Dichlorobenzene		10	20	40	50	80	100	120
Benzyl Alcohol		10	20	40	50	80	100	120
1,2-Dichlorobenzene		10	20	40	50	80	100	120
bis(2-Chloroisopropyl)ether		10	20	40	50	80	100	120
o-Cresol (2-Methylphenol)		10	20	40	50	80	100	120
N-Nitrosodipropylamine	1**	10	20	40	50	80	100	120
m,p-Cresols (3-Methylphenol & 4-Methylphenol)		10	20	40	50	80	100	120
Hexachloroethane		10	20	40	50	80	100	120
Nitrobenzene		10	20	40	50	80	100	120
Isophorone		10	20	40	50	80	100	120
2-Nitrophenol		10	20	40	50	80	100	120
2,4-Dimethylphenol		10	20	40	50	80	100	120
bis(2-Chloroethoxy)methane		10	20	40	50	80	100	120
2,4-Dichlorophenol		10	20	40	50	80	100	120
Benzoic Acid			20	40	50	80	100	120
1,2,4-Trichlorobenzene		10	20	40	50	80	100	120
Naphthalene	1	10	20	40	50	80	100	120
alpha-Terpineol		10	20	40	50	80	100	120
4-Chloroaniline		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachlorobutadiene		10	20	40	50	80	100	120
4-Chloro-3-methylphenol		10	20	40	50	80	100	120
2-Methylnaphthalene	1	10	20	40	50	80	100	120

1-Methylnaphthalene	1	10	20	40	50	80	100	120
Hexachlorocyclopentadiene		10	20	40	50	80	100	120
2,3-Dichloroaniline		10	20	40	50	80	100	120
2,4,6-Trichlorophenol		10	20	40	50	80	100	120
2,4,5-Trichlorophenol		10	20	40	50	80	100	120
2-Chloronaphthalene	1	10	20	40	50	80	100	120
o-Nitroaniline		10	20	40	50	80	100	120
m-Nitroaniline		10	20	40	50	80	100	120
Dimethylphthalate	1**	10	20	40	50	80	100	120
2,6-Dinitrotoluene		10	20	40	50	80	100	120
Acenaphthylene	1	10	20	40	50	80	100	120
Acenaphthene	1	10	20	40	50	80	100	120
2,4-Dinitrophenol			20	40	50	80	100	120
Dibenzofuran		10	20	40	50	80	100	120
2,4-Dinitrotoluene		10	20	40	50	80	100	120
Diethylphthalate	1**	10	20	40	50	80	100	120
4-Nitrophenol		10	20	40	50	80	100	120
Fluorene	1	10	20	40	50	80	100	120
4-Chlorophenyl phenyl ether		10	20	40	50	80	100	120
2-Methyl-4,6-dinitrophenol		10	20	40	50	80	100	120
p-Nitroaniline		10	20	40	50	80	100	120
Diphenylamine		10	20	40	50	80	100	120
1,2-Diphenylhydrazine		10	20	40	50	80	100	120
4-Bromophenyl phenylether		10	20	40	50	80	100	120
Hexachlorobenzene		10	20	40	50	80	100	120
Pentachlorophenol		10	20	40	50	80	100	120
n-Octadecane		10	20	40	50	80	100	120
Phenanthrene	1	10	20	40	50	80	100	120
Anthracene	1	10	20	40	50	80	100	120
Di-n-butylphthalate	1**	10	20	40	50	80	100	120
Fluoranthene	1	10	20	40	50	80	100	120
Pyrene	1	10	20	40	50	80	100	120
Butylbenzylphthalate	1**	10	20	40	50	80	100	120
Benzo(a)anthracene	1	10	20	40	50	80	100	120
Chrysene	1	10	20	40	50	80	100	120
bis (2-Ethylhexyl) phthalate	1	10	20	40	50	80	100	120
Di-n-octylphthalate	1**	10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Benzo(b)fluoranthene	1	10	20	40	50	80	100	120
Benzo(k)fluoranthene	1	10	20	40	50	80	100	120
Benzo(a)pyrene	1	10	20	40	50	80	100	120
Indeno-(1,2,3-cd)pyrene	1	10	20	40	50	80	100	120
Dibenzo(a,h)anthracene	1	10	20	40	50	80	100	120
Benzo(ghi)perylene	1	10	20	40	50	80	100	120
m-Dinitrobenzene		10	20	40	50	80	100	120
2,3,4,6-Tetrachlorophenol		10	20	40	50	80	100	120
Dinoseb		10	20	40	50	80	100	120
Carbazole	1	10	20	40	50	80	100	120

p-Benzoquinone		10	20	40	50	80	100	120
Methoxychlor	1**	10	20	40	50	80	100	120
p-Toluidine		10	20	40	50	80	100	120
m-Toluidine		10	20	40	50	80	10	120
1,4-Dinitrobenzene		10	20	40	50	80	100	120
2-Ethoxyethanol		10	20	40	50	80	100	120
Phthalic anhydride		10	20	40	50	80	100	120
Methylenebis(2-chloroaniline)		10	20	40	50	80	100	120
Dibenzo(a,e)pyrene		10	20	40	50	80	100	120

SW846 8270/EPA 625

Calibration Standard Concentration Levels*

AP MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Benzaldehyde		10	20	40	50	80	100	120
Acetophenone		10	20	40	50	80	100	120
Caprolactam		10	20	40	50	80	100	120
1,1'-Biphenyl		10	20	40	50	80	100	120
Atrazine		10	20	40	50	80	100	120
Benzidine		10	20	40	50	80	100	120
3,3'-Dichlorobenzidine		10	20	40	50	80	100	120
1,4-Dioxane		10	20	40	50	80	100	120
Methyl methacrylate		10	20	40	50	80	100	120
Ethyl methacrylate		10	20	40	50	80	100	120
2-Picoline		10	20	40	50	80	100	120
N-Nitrosomethylethylamine		10	20	40	50	80	100	120
Methyl methanesulfonate		10	20	40	50	80	100	120
N-Nitrosodiethylamine		10	20	40	50	80	100	120
Ethyl methanesulfonate		10	20	40	50	80	100	120
Pentachloroethane		10	20	40	50	80	100	120
N-Nitrosopyrrolidine		10	20	40	50	80	100	120
N-Nitrosomorpholine		10	20	40	50	80	100	120
o-Toluidine		10	20	40	50	80	100	120
N-Nitrosopiperidine		10	20	40	50	80	100	120
a,a-Dimethylphenethylamine		10	20	40	50	80	100	120
2,6-Dichlorophenol		10	20	40	50	80	100	120

SW846 8270/EPA 625

Calibration Standard Concentration Levels*

AP MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachloropropene		10	20	40	50	80	100	120
p-Phenylenediamine		10	20	40	50	80	100	120
N-Nitrosodi-n-butylamine		10	20	40	50	80	100	120
Safrole		10	20	40	50	80	100	120
1,2,4,5-Tetrachlorobenzene		10	20	40	50	80	100	120
Isosafrole		10	20	40	50	80	100	120
1,4-Naphthoquinone		10	20	40	50	80	100	120
Pentachlorobenzene		10	20	40	50	80	100	120
1-Naphthylamine		10	20	40	50	80	100	120
2-Naphthylamine		10	20	40	50	80	100	120
5-Nitro-o-toluidine		10	20	40	50	80	100	120
1,3,5-Trinitrobenzene		10	20	40	50	80	100	120
Phenacetin		10	20	40	50	80	100	120
Diallate		10	20	40	50	80	100	120
cis-Diallate		1.5	3	6	7.5	12	15	18
trans-Diallate		8.5	17	34	42	68	85	102
4-Aminobiphenyl		10	20	40	50	80	100	120

Pentachloronitrobenzene		10	20	40	50	80	100	120
Pronamide		10	20	40	50	80	100	120
4-Nitroquinoline oxide		10	20	40	50	80	100	120
Methapyrilene	1**	10	20	40	50	80	100	120
Isodrin	1**	10	20	40	50	80	100	120
Aramite		10	20	40	50	80	100	120
Kepone	1**	10	20	40	50	80	100	120
p-(Dimethylamino)azobenzene		10	20	40	50	80	100	120
Chlorobenzilate		10	20	40	50	80	100	120
3,3'-Dimethylbenzidine		10	20	40	50	80	100	120
2-Acetylaminofluorene		10	20	40	50	80	100	120
7,12-Dimethylbenz(a)anthracene		10	20	40	50	80	100	120
3-Methylcholanthrene		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachlorophene		500	1000	1250	1500	1750	2000	

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
PEST MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Tributylphosphate		10	20	40	50	80	100	120
Triethylphosphorothioate		10	20	40	50	80	100	120
Thionazin		10	20	40	50	80	100	120
Sulfotepp		10	20	40	50	80	100	120
Phorate		10	20	40	50	80	100	120
Dimethoate		10	20	40	50	80	100	120
Disulfoton		10	20	40	50	80	100	120
Methyl parathion		10	20	40	50	80	100	120
Famphur		10	20	40	50	80	100	120
Parathion		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
NEVADA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
bis(Chloromethyl)ether		10	20	40	50	80	100	120
4-Chlorothiophenol		10	20	40	50	80	100	120
4-Chlorothioanisole		10	20	40	50	80	100	120
Phthalic acid		10	20	40	50	80	100	120
Hydroxymethyl phthalimide		10	20	40	50	80	100	120
Diphenyl sulfide		10	20	40	50	80	100	120
Diphenyl disulfide		10	20	40	50	80	100	120
Phenyl sulfone		10	20	40	50	80	100	120
Octachlorostyrene		10	20	40	50	80	100	120
Thiophenol		10	20	40	50	80	100	120
2,2'-Dichlorobenzil		10	20	40	50	80	100	120
bis(p-Chlorophenyl)disulfide		10	20	40	50	80	100	120

bis(p-Chlorophenyl)sulfone		10	20	40	50	80	100	120
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SW846 8270C/8270D/EPA 625								
Calibration Standard Concentration Levels*								
BJCO MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
1-Hexanol		10	20	40	50	80	100	120
Quinoline		10	20	40	50	80	100	120
2,4-Toluene diisocyanate		10	20	40	50	80	100	120
1-Nitropyrene		10	20	40	50	80	100	120
5-Methylchrysene		10	20	40	50	80	100	120
Benzo(j)fluoranthene		10	20	40	50	80	100	120
Dibenzo(a,h)pyrene		10	20	40	50	80	100	120
Dibenzo(a,h)acridine		10	20	40	50	80	100	120
Dibenzo(a,i)acridine		10	20	40	50	80	100	120
Dibenzo(a,l)pyrene		10	20	40	50	80	100	120
Dibenzo(a,l)pyrene		10	20	40	50	80	100	120
7H-Dibenzo(c,g)carbazole		10	20	40	50	80	10	120

All values are mg/L without the prep factor.

Indicates the calibration verification concentration level used

* Usual calibration levels using SCAN methodology

** This analyte included in this level at special client request.

(0210/Full list)

Report Date: 05-Mar-2010 07:48

Calibration History

Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

Start Cal Date: 25-FEB-2010 03:29

End Cal Date : 28-FEB-2010 15:40

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
25-FEB-2010 09:39	MEGA	/chem/MSD4.i/s022410a.b/s4b2448.d
Cal Level: 2 , Cal Amount: 10.00000		
28-FEB-2010 13:51	BJCO	/chem/MSD4.i/s022810.b/s4b2808.d
25-FEB-2010 20:02	NEV	/chem/MSD4.i/s022510.b/s4b2507.d
25-FEB-2010 13:38	AP12	/chem/MSD4.i/s022410a.b/s4b2456.d
25-FEB-2010 10:06	MEGA	/chem/MSD4.i/s022410a.b/s4b2449.d
25-FEB-2010 03:29	PEST	/chem/MSD4.i/s022410a.b/s4b2436.d
Cal Level: 3 , Cal Amount: 20.00000		
28-FEB-2010 12:56	BJCO	/chem/MSD4.i/s022810.b/s4b2806.d
25-FEB-2010 20:23	NEV	/chem/MSD4.i/s022510.b/s4b2508.d
25-FEB-2010 14:00	AP12	/chem/MSD4.i/s022410a.b/s4b2457.d
25-FEB-2010 10:32	MEGA	/chem/MSD4.i/s022410a.b/s4b2450.d
25-FEB-2010 03:51	PEST	/chem/MSD4.i/s022410a.b/s4b2437.d
Cal Level: 4 , Cal Amount: 40.00000		
28-FEB-2010 13:24	BJCO	/chem/MSD4.i/s022810.b/s4b2807.d
25-FEB-2010 20:45	NEV	/chem/MSD4.i/s022510.b/s4b2509.d
25-FEB-2010 14:21	AP12	/chem/MSD4.i/s022410a.b/s4b2458.d
25-FEB-2010 10:59	MEGA	/chem/MSD4.i/s022410a.b/s4b2451.d
25-FEB-2010 04:13	PEST	/chem/MSD4.i/s022410a.b/s4b2438.d
Cal Level: 5 , Cal Amount: 50.00000		
28-FEB-2010 14:18	BJCO	/chem/MSD4.i/s022810.b/s4b2809.d
25-FEB-2010 21:07	NEV	/chem/MSD4.i/s022510.b/s4b2510.d
25-FEB-2010 14:43	AP12	/chem/MSD4.i/s022410a.b/s4b2459.d
25-FEB-2010 11:26	MEGA	/chem/MSD4.i/s022410a.b/s4b2452.d
25-FEB-2010 04:34	PEST	/chem/MSD4.i/s022410a.b/s4b2439.d
Cal Level: 6 , Cal Amount: 80.00000		
28-FEB-2010 14:45	BJCO	/chem/MSD4.i/s022810.b/s4b2810.d
25-FEB-2010 21:29	NEV	/chem/MSD4.i/s022510.b/s4b2511.d
25-FEB-2010 15:05	AP12	/chem/MSD4.i/s022410a.b/s4b2460.d
25-FEB-2010 11:52	MEGA	/chem/MSD4.i/s022410a.b/s4b2453.d
25-FEB-2010 04:56	PEST	/chem/MSD4.i/s022410a.b/s4b2440.d
Cal Level: 7 , Cal Amount: 100.00000		

28-FEB-2010 15:13	BJCO	/chem/MSD4.i/s022810.b/s4b2811.d
25-FEB-2010 21:51	NEV	/chem/MSD4.i/s022510.b/s4b2512.d
25-FEB-2010 15:27	AP12	/chem/MSD4.i/s022410a.b/s4b2461.d
25-FEB-2010 12:19	MEGA	/chem/MSD4.i/s022410a.b/s4b2454.d
25-FEB-2010 05:18	PEST	/chem/MSD4.i/s022410a.b/s4b2441.d

Cal Level: 8 , Cal Amount: 120.00000

28-FEB-2010 15:40	BJCO	/chem/MSD4.i/s022810.b/s4b2812.d
25-FEB-2010 22:13	NEV	/chem/MSD4.i/s022510.b/s4b2513.d
25-FEB-2010 15:48	AP12	/chem/MSD4.i/s022410a.b/s4b2462.d
25-FEB-2010 12:46	MEGA	/chem/MSD4.i/s022410a.b/s4b2455.d
25-FEB-2010 05:39	PEST	/chem/MSD4.i/s022410a.b/s4b2442.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0

04-MAR-2010 15:49	MEGA	/chem/MSD4.i/s030410a.b/s4c0410.d
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Ccal Level: 4 , Ccal Amount: 40.0

04-MAR-2010 16:21	AP12	/chem/MSD4.i/s030410a.b/s4c0411.d
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GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 25-FEB-2010 03:29
 End Cal Date : 28-FEB-2010 15:40
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Cal Date : 05-Mar-2010 07:47 jos00786

Calibration File Names:

Level 1: /chem/MSD4.i/s022410a.b/s4b2448.d
 Level 2: /chem/MSD4.i/s022810.b/s4b2808.d
 Level 3: /chem/MSD4.i/s022810.b/s4b2806.d
 Level 4: /chem/MSD4.i/s022810.b/s4b2807.d
 Level 5: /chem/MSD4.i/s022810.b/s4b2809.d
 Level 6: /chem/MSD4.i/s022810.b/s4b2810.d
 Level 7: /chem/MSD4.i/s022810.b/s4b2811.d
 Level 8: /chem/MSD4.i/s022810.b/s4b2812.d

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
1 N-Nethyl-N-nitrosomethylaniline	++++ 0.65669	0.60030 0.67858	0.62889	0.66247	0.66810	++++	AVRG	0.64917			4.49427
2 Pyridine	++++ 0.90498	0.82035 0.91785	0.87639	0.91474	0.92371	++++	AVRG	0.89300			4.40311
4 Aniline	++++ 0.50778	0.47559 0.51198	0.49790	0.52520	0.51977	++++	AVRG	0.50637			3.51808
209 Benzaldehyde	++++ 0.74529	0.82331 0.67425	0.84339	0.85968	0.86470	++++	AVRG	0.80177			9.49255
6 Phenol	++++ 1.22217	1.06660 1.23483	1.18140	1.26189	1.24329	++++	AVRG	1.20170			5.94684

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
7 bis(2-Chloroethyl) ether	++++ 0.76833	0.78205 0.76106	0.82616	0.84830	0.83396	++++	AVRG		0.80331		4.63982
8 2-Chlorophenol	++++ 1.05870	0.92498 1.07769	1.00045	1.05992	1.07116	++++	AVRG		1.03215		5.74211
203 n-Decane	++++ 0.85134	1.09407 0.80506	1.14196	1.09793	1.05522	++++	AVRG		1.00759		14.13307
9 1,3-Dichlorobenzene	++++ 1.16565	1.07822 1.16665	1.15307	1.21523	1.20463	++++	AVRG		1.16391		4.16718
11 1,4-Dichlorobenzene	++++ 1.20093	1.19299 1.19389	1.25388	1.29735	1.28897	++++	AVRG		1.23800		3.91052
12 Benzyl alcohol	++++ 0.61187	0.43999 0.63216	0.52773	0.59378	0.59888	++++	AVRG		0.56740		12.62665
13 1,2-Dichlorobenzene	++++ 1.06242	1.05460 1.05216	1.15513	1.18532	1.16112	++++	AVRG		1.11179		5.54210
14 bis(2-Chloroisopropyl) ether	++++ 1.28479	1.36152 1.23736	1.41955	1.45039	1.41490	++++	AVRG		1.36142		6.18199
15 o-Cresol	++++ 0.80683	0.77913 0.79948	0.84535	0.88459	0.86701	++++	AVRG		0.83040		5.00598

GEL Laboratories LLC

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 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
16 Acetophenone	++++ 1.18423	1.09749 1.16938	1.14693	1.19939	1.21915	++++	AVRG		1.16943		3.68229
17 N-Nitrosodipropylamine	++++ 0.78793	0.71798 0.77529	0.76074	0.80678	0.79200	++++	AVRG		0.77345		4.04995
18 m,p-Cresols	++++ 1.02798	0.87930 1.05306	0.98055	1.02982	1.01207	++++	AVRG		0.99713		6.26784
19 Hexachloroethane	++++ 0.46349	0.42165 0.46024	0.45159	0.47990	0.47967	++++	AVRG		0.45942		4.70269
21 Nitrobenzene	++++ 0.25324	0.27766 0.24831	0.28792	0.28316	0.27915	++++	AVRG		0.27158		6.10249
22 Isophorone	++++ 0.47176	0.51570 0.44737	0.52540	0.52186	0.50799	++++	AVRG		0.49835		6.33579
23 2-Nitrophenol	++++ 0.13184	0.13087 0.12769	0.13811	0.14485	0.14021	++++	AVRG		0.13559		4.80558
24 2,4-Dimethylphenol	++++ 0.23259	0.22287 0.23081	0.23401	0.22130	0.21350	++++	AVRG		0.22585		3.53508
25 bis(2-Chloroethoxy)methane	++++ 0.27287	0.31430 0.26221	0.31445	0.31192	0.30355	++++	AVRG		0.29655		7.77826

GEL Laboratories LLC

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 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
26 2,4-Dichlorophenol	++++ 0.19600	0.18465 0.19043	0.19494	0.19888	0.19860	++++	AVRG		0.19392		2.82491
27 Benzoic acid	++++ 270044	++++ 339473	25440	84047	106069	++++	LINR	0.25759	0.17307		0.99922
28 1,2,4-Trichlorobenzene	++++ 0.22160	0.23635 0.21529	0.24625	0.24146	0.23998	++++	AVRG		0.23349		5.24347
30 Naphthalene	0.86894 0.68187	0.84979 0.63201	0.86859	0.84394	0.81590	++++	AVRG		0.79443		12.16921
204 alpha-Terpineol	++++ 0.15754	0.20927 0.14621	0.21028	0.19923	0.18935	++++	AVRG		0.18531		14.69565
31 4-Chloroaniline	++++ 0.34846	0.36608 0.33136	0.38360	0.38794	0.37892	++++	AVRG		0.36606		6.06615
189 Caprolactam	++++ 0.08893	0.07399 0.08782	0.08081	0.08899	0.09091	++++	AVRG		0.08524		7.65048
32 Hexachlorobutadiene	++++ 0.12553	0.13417 0.12187	0.14172	0.14019	0.13894	++++	AVRG		0.13374		6.17181
33 4-Chloro-3-methylphenol	++++ 0.19274	0.18234 0.18259	0.18911	0.19315	0.18966	++++	AVRG		0.18826		2.53443

GEL Laboratories LLC
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 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients ml	m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
34 2-Methylnaphthalene	0.49949	0.51240	0.51947	0.52187	0.50325	++++					
	0.44553	0.41048					AVRG		0.48750		8.74677
35 1-Methylnaphthalene	0.50344	0.49845	0.51165	0.51413	0.49554	++++					
	0.43713	0.40133					AVRG		0.48024		9.04631
36 Hexachlorocyclopentadiene	++++	7845	22615	57594	59945	++++					
	162157	175952					LINR	0.7334	0.21237		0.99619
208 1,1'-Biphenyl	++++	1.13553	1.20721	1.22673	1.24378	++++					
	1.19551	1.15573					AVRG		1.19408		3.47490
205 2,3-Dichloroaniline	++++	0.45933	0.51296	0.55139	0.55563	++++					
	0.54106	0.54533					AVRG		0.52762		6.94917
37 2,4,6-Trichlorophenol	++++	0.24647	0.28330	0.29976	0.29475	++++					
	0.28880	0.28873					AVRG		0.28364		6.72258
38 2,4,5-Trichlorophenol	++++	17388	40623	99995	120127	++++					
	284849	325976					LINR	0.15580	0.38349		0.99825
40 2-Chloronaphthalene	0.82086	0.84293	0.91848	0.95110	0.95047	++++					
	0.91353	0.93012					AVRG		0.90393		5.71289
42 o-Nitroaniline	++++	0.22394	0.24587	0.26532	0.26232	++++					
	0.26723	0.26557					AVRG		0.25504		6.72122

GEL Laboratories LLC

INITIAL CALIBRATION DATA

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 Integrator : HP RTE
 Method file : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
41 m-Nitroaniline	++++ 0.21443	0.17156 0.22517	0.19002	0.21392	0.20162	++++	AVRG		0.20279		9.61284
43 Dimethylphthalate	++++ 1.06102	0.94519 1.05767	0.99322	1.06394	1.04982	++++	AVRG		1.02848		4.72446
44 2,6-Dinitrotoluene	++++ 0.24595	0.20984 0.25157	0.22057	0.24484	0.24245	++++	AVRG		0.23587		7.05224
45 Acenaphthylene	1.23117 1.40967	1.30716 1.40837	1.43875	1.50819	1.48478	++++	AVRG		1.39830		7.01090
47 Acenaphthene	0.97433 0.89215	0.87758 0.88733	0.94874	1.01146	0.97005	++++	AVRG		0.93738		5.53930
48 2,4-Dinitrophenol	++++ 85005	++++ 97065	8464	28170	31958	++++					
49 Dibenzofuran	++++ 1.21834	1.15062 1.22072	1.23195	1.29225	1.27594	++++	LINR	0.30066	0.12119		0.99820
50 2,4-Dinitrotoluene	++++ 0.29266	0.24876 0.31445	0.25912	0.29333	0.28393	++++	AVRG		1.23164		4.05909
51 Diethylphthalate	++++ 0.98509	0.95894 1.00542	0.99517	1.04843	1.01069	++++	AVRG		0.28204		8.57850
							AVRG		1.00062		2.97070

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 25-FEB-2010 03:29
 End Cal Date : 28-FEB-2010 15:40
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
52 4-Nitrophenol	++++ 122069	6709 145303	16038	45123	50119	++++ LINR		0.18779	0.17059		0.99551
53 Fluorene	0.93251 1.01316	0.99890 1.02165	1.07011	1.14253	1.09253	++++ AVRG			1.03877		6.63104
54 4-Chlorophenylphenylether	++++ 0.50229	0.45939 0.49708	0.48890	0.52490	0.52056	++++ AVRG			0.49885		4.76197
55 2-Methyl-4,6-dinitrophenol	++++ 124274	6879 153259	15439	47112	50682	++++ LINR		0.17450	0.10882		0.99865
56 p-Nitroaniline	++++ 0.20639	0.16533 0.24165	0.16492	0.21186	0.20537	++++ AVRG			0.19925		14.84521
133 Diphenylamine	++++ 0.54099	0.47122 0.48786	0.54102	0.52921	0.53929	++++ AVRG			0.51827		5.93711
58 1,2-Diphenylhydrazine	++++ 0.66693	0.62453 0.58712	0.69918	0.67558	0.68197	++++ AVRG			0.65589		6.38752
59 Tributylphosphate	++++ 0.97269	0.88341 0.90211	0.96168	1.07495	1.03356	1.02295 AVRG			0.97876		7.16447
61 4-Bromophenylphenylether	++++ 0.18461	0.15855 0.16969	0.17869	0.18088	0.18285	++++ AVRG			0.17588		5.66485

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Start Cal Date : 25-FEB-2010 03:29
 End Cal Date : 28-FEB-2010 15:40
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
63 Hexachlorobenzene	++++	0.17130	0.18786	0.19285	0.19300	++++					
	0.19127	0.18021					AVRG		0.18608		4.66460
207 Atrazine	++++	0.03901	0.03971	0.03923	0.03926	++++					
	0.03113	++++					AVRG		0.03767		9.72062
65 Pentachlorophenol	++++	5694	12539	37276	43302	++++					
	103689	13566					LINR	0.21136	0.09538		0.99689
206 n-Octadecane	++++	0.35556	0.41146	0.37304	0.36965	++++					
	0.30570	0.26763					AVRG		0.34717		14.92542
68 Phenanthrene	0.90552	0.87619	0.89644	0.92585	0.91329	++++					
	0.84298	0.85637					AVRG		0.88809		3.44541
69 Anthracene	0.78826	0.82522	0.85649	0.93264	0.91383	++++					
	0.85369	0.81345					AVRG		0.85480		6.14621
72 Di-n-butylphthalate	++++	0.90347	0.88496	1.00079	0.98751	++++					
	0.90709	0.91797					AVRG		0.93363		5.16835
76 Fluoranthene	0.69653	0.74129	0.72156	0.86208	0.87926	++++					
	0.81145	0.84548					AVRG		0.79395		9.25372
77 Benidine	++++	0.29458	0.26241	0.26380	0.29522	++++					
	0.30395	0.27558					AVRG		0.28259		6.26765

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
79 Pyrene	0.96222 0.99453	1.12513 1.18216	0.97345 1.10981	1.15564 1.07185	++++	AVRG		1.07185			8.61393
85 Butylbenzylphthalate	++++ 0.43061	0.47188 0.46185	0.46841 0.52029	0.54195 0.48250	++++	AVRG		0.48250			8.49108
89 Benzo(a)anthracene	0.97007 0.88614	0.87283 0.94588	0.89941 0.94146	0.91393 0.91853	++++	AVRG		0.91853			3.83756
90 3,3'-Dichlorobenzidine	++++ 0.26999	0.21950 0.24716	0.22292 0.25635	0.27145	++++	AVRG		0.24789			9.10104
92 Chrysene	0.84822 0.85209	0.85253 0.84906	0.88407 0.89808	0.91281 0.91098	++++	AVRG		0.87098			3.09164
93 bis(2-Ethylhexyl)phthalate	++++ 0.68232	0.60081 0.75911	0.61583 1.75971	0.75048 4.79102	++++	AVRG		0.68918			9.90048
94 Di-n-octyl-phthalate	++++ 1177232	75357 0.83381	0.91056 0.86752	534803 1.16153	++++	AVRG		0.13526			0.99060
95 Benzo(b)fluoranthene	0.86752 1.10581	0.83381 1.15972	0.91056 1.08207	1.16153 1.16840	++++	AVRG		1.01729			13.93712
96 Benzo(k)fluoranthene	0.83407 1.19309	0.90605 1.16300	1.05561 1.08699	1.16840 1.05818	++++	AVRG		1.05818			13.11411

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Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
	Level 100	Level 120	Level 8								
97 Benzo(a)pyrene	0.60442	0.70994	0.79288	0.86302	0.87766	++++	AVRG		0.80844		14.13335
	0.89764	0.91350									
99 Indeno(1,2,3-cd)pyrene	0.52156	0.68696	0.63882	0.70513	0.64341	++++	AVRG		0.66515		12.13484
	0.67181	0.78838									
100 Dibenzo(a,h)anthracene	0.40987	0.55572	0.52810	0.59277	0.54058	++++	AVRG		0.55316		14.36080
	0.57089	0.67422									
101 Benzo(ghi)perylene	0.47288	0.58039	0.49396	0.56281	0.49438	++++	AVRG		0.53657		10.69084
	0.51919	0.63238									
102 1,4-Dioxane	++++	0.33421	0.35618	0.35650	0.37187	++++	AVRG		0.36128		4.38323
	0.37700	0.37190									
103 Methyl methacrylate	++++	0.18200	0.19041	0.19329	0.20309	++++	AVRG		0.19684		5.04748
	0.20815	0.20407									
104 Ethyl methacrylate	++++	0.76652	0.81518	0.81457	0.83918	++++	AVRG		0.81257		3.13786
	0.83225	0.80774									
105 2-Picoline	++++	1.10235	1.18821	1.18804	1.21585	++++	AVRG		1.17340		3.34687
	1.18760	1.15834									
106 N-Nitrosomethylethylamine	++++	0.43159	0.44736	0.46572	0.47350	++++	AVRG		0.46493		4.68384
	0.48311	0.48831									

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Compound	1	10	20	40	50	80	Curve	b	Coefficients ml	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
107 Methyl methanesulfonate	++++ 0.41486	0.45696 0.38557	0.47072	0.46705	0.47577	++++	AVRG		0.44515		8.21046
108 N-Nitrosodiethylamine	++++ 0.51957	0.45601 0.52251	0.48757	0.50036	0.51572	++++	AVRG		0.50195		4.38647
109 Ethyl Methanesulfonate	++++ 0.59635	0.57720 0.57657	0.60156	0.61105	0.61675	++++	AVRG		0.59658		2.82157
110 Pentachloroethane	++++ 0.32705	0.28141 0.32526	0.30136	0.30688	0.32052	++++	AVRG		0.31042		5.64478
111 N-Nitrosopyrrolidine	++++ 0.53929	0.46517 0.54194	0.48971	0.52367	0.54122	++++	AVRG		0.51683		6.22835
113 N-Nitrosomorpholine	++++ 0.51014	0.53007 0.47754	0.54330	0.55822	0.56926	++++	AVRG		0.53142		6.32476
114 o-Toluidine	++++ 1.74538	1.65403 1.70287	1.71286	1.79939	1.83042	++++	AVRG		1.74083		3.74350
1:5 N-Nitrosopiperidine	++++ 0.14477	0.12852 0.14358	0.13505	0.14028	0.14290	++++	AVRG		0.13918		4.50299
1:6 a,a-Dimethylphenethylamine	++++ 0.65185	0.54602 0.63182	0.61379	0.65683	0.67676	++++	AVRG		0.62951		7.34911

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Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
117 Triethylphosphorothioate	++++ 0.13713	0.11480 0.13599	0.12137	0.12957	0.13486	0.13972	AVRG		0.13049		7.05621
118 2,6-Dichlorophenol	++++ 0.22637	0.17447 0.22487	0.19470	0.21020	0.21756	++++	AVRG		0.20803		9.66090
119 Hexachloropropene	++++ 0.11979	0.08610 0.11310	0.09205	0.10303	0.10949	++++	AVRG		0.10393		12.36829
120 p-Phenylenediamine	++++ 0.17410	0.19157 ++++	0.21378	0.23163	0.22722	++++	AVRG		0.20766		11.74655
121 N-Nitrosodi-n-butylamine	++++ 0.19474	0.18937 0.19105	0.19494	0.20217	0.20076	++++	AVRG		0.19550		2.61108
122 Saffrole	++++ 0.20333	0.17951 0.19751	0.18980	0.19844	0.20248	++++	AVRG		0.19518		4.64024
123 1,2,4,5-Tetrachlorobenzene	++++ 0.44313	0.39868 0.43204	0.42872	0.43199	0.43721	++++	AVRG		0.42863		3.62029
124 Isosafrole	++++ 0.35903	0.29313 0.35957	0.31894	0.33063	0.34165	++++	AVRG		0.33382		7.63399
125 1,4-Naphthoquinone	++++ 0.24596	0.29048 0.23500	0.31347	0.30645	0.28914	++++	AVRG		0.28008		11.50991

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	MSD or R ²
100	100	120									
126 m-Dinitrobenzene	++++	0.14360	0.15290	0.17199	0.16709	++++	AVRG		0.16672		9.56559
127 Pentachlorobenzene	++++	0.35285	0.37516	0.38297	0.39103	++++	AVRG				3.63340
128 1-Naphthylamine	++++	0.74167	0.82089	0.87845	0.90422	++++	AVRG		0.82637		7.17603
129 2-Naphthylamine	++++	0.84132	0.90112	0.94477	0.97798	++++	AVRG		0.89188		6.77482
130 2,3,4,6-Tetrachlorophenol	++++	14203	29470	84648	97311	++++	LINR	0.12479	0.29336		0.99942
131 5-Nitro-o-toluidine	++++	0.20490	0.22166	0.25326	0.26288	++++	AVRG		0.24491		10.35873
132 Thionazin	++++	0.26266	0.26413	0.13325	0.14814	0.15937	AVRG		0.14600		10.29909
134 Sulfotepp	++++	0.15839	0.15165	0.10129	0.10715	0.10325	AVRG		0.10224		4.98988
135 Phorate	++++	0.10342	0.10526	0.35168	0.35724	0.34925	AVRG		0.33903		6.19510

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	n2	%RSD or R ²
136 1,3,5-Trinitrobenzene	++++ 0.11831	0.08409 0.12525	0.09165	0.10970	0.10739	++++ AVRG			0.10637		14.75008
137 Phenacetin	++++ 0.28494	0.23125 0.29169	0.24376	0.26114	0.26627	++++ AVRG			0.26317		8.82366
138 Diallyl	++++ 0.25331	0.24247 0.24518	0.25507	0.25975	0.25942	++++ AVRG			0.25253		2.86594
139 Dimethoate	++++ 0.22505	0.14447 0.21797	0.17371	0.19768	0.20272	0.21708 AVRG			0.19696		14.60424
140 4-Aminobiphenyl	++++ 0.54558	0.49021 0.48554	0.52039	0.59720	0.60499	++++ AVRG			0.54065		9.55857
141 Pentachloronitrobenzene	++++ 0.07161	0.06569 0.06869	0.07086	0.07565	0.07639	++++ AVRG			0.07148		5.70324
142 Pronamide	++++ 0.24399	0.25780 0.22242	0.27864	0.28320	0.27471	++++ AVRG			0.26013		9.05751
143 Dinoseb	++++ 175851	8898 218613	20220	66360	67952	++++ LINR		0.20374	0.15626		0.99719
144 Disulfoton	++++ 0.25942	0.22704 0.23218	0.25585	0.27659	0.26627	0.26581 AVRG			0.25474		7.22518

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
145 Methyl parathion	++++ 304747	16828 372274	43771	98807	139345	230970	LINR	0.13061	0.19761		0.99958
146 4-Nitroquinoline-1-oxide	++++ 0.00633	0.00917 ++++	0.00790	0.00869	0.00813	++++	AVRG		0.00804		13.41214
147 Methapyrilene	++++ 0.25896	0.29788 0.22924	0.29898	0.28649	0.27921	++++	AVRG		0.27513		9.75211
148 Isodrin	++++ 0.09680	0.08848 0.09557	0.08950	0.09277	0.09433	++++	AVRG		0.09291		3.58592
149 Aramite	++++ 0.04205	0.03639 0.03712	0.03672	0.03995	0.04165	++++	AVRG		0.03898		6.56750
150 Kepone	++++ 0.07915	0.06267 0.07263	0.06270	0.06464	0.06695	++++	AVRG		0.06812		9.61370
151 p-(Dimethylamino)azobenzene	++++ 0.31880	0.27261 0.32786	0.30268	0.31762	0.31829	++++	AVRG		0.30964		6.41744
152 Chlorobenzilate	++++ 0.33340	0.26745 0.36153	0.31076	0.32373	0.32162	++++	AVRG		0.31975		9.65768
153 3,3'-Dimethylbenzidine	++++ 0.49598	0.46533 0.44788	0.47413	0.47686	0.49976	++++	AVRG		0.47666		4.05773

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
154 Famphur	++++ 504898	24117 598127	67020	153185	208840	380727	LINEAR	0.12584	0.38384		0.99970
155 2-Acetylaminofluorene	++++ 0.27455	0.20283 0.24688	0.21139	0.25129	0.27948	++++	AVRG		0.24440		12.95235
157 7,12Dimethylbenz(a)anthracene	++++ 0.65247	0.43898 0.67822	0.53786	0.56686	0.57760	++++	AVRG		0.57533		14.87264
158 3-Methylcholanthrene	++++ 0.40458	0.32445 0.40597	0.33620	0.36924	0.38521	++++	AVRG		0.37094		9.28675
26 Phthalic anhydride	++++ 149010	6817 182268	19378	53011	65011	++++	LINEAR	0.10202	0.08873		0.99961
173 Carbazole	0.59215	0.63823	0.57441	0.63386	0.67317	++++	AVRG		0.64158		7.25417
174 Hexachlorophene	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.0000e+00		0.0000e+00
179 Dibenzo(a,e)pyrene	++++ 0.20130	0.21972	0.16394	0.24324	0.20657	++++	AVRG		0.20695		14.00811
185 (2,3-Dibromopropyl)phosphate	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.0000e+00		0.0000e+00

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients mi	m2	%RSD or R ²
184 p-Benzoinone	++++ 0.09008	0.02471 0.11216	0.03418	0.07909	0.12223	++++	AVRG		0.07707		51.98034<-
191 Parathion	++++ 1.08126	6594 136680	16606	37476	51586	85724	LINR	0.10632	0.07128		0.99972
192 Methoxychlor	++++ 0.44914	0.40192 0.40847	0.42858	0.48837	0.42405	++++	AVRG		0.43342		7.29108
210 m-Toluidine	++++ 1.46732	1.24156 ++++	1.41449	1.45268	1.52615	++++	AVRG		1.42044		7.58623
211 p-Toluidine	++++ 1.30124	1.07363 ++++	1.04910	1.26766	1.16063	++++	AVRG		1.17045		9.62384
212 Cis Diallate	++++ 0.24568	0.22456 0.24333	0.22882	0.22904	0.23736	++++	AVRG		0.23480		3.67139
213 Trans Diallate	++++ 0.29801	0.28525 0.28845	0.30008	0.30559	0.30520	++++	AVRG		0.29710		2.86594
214 1,4-Dinitrobenzene	++++ 0.21226	0.16893 0.21702	0.18816	0.21158	0.20475	++++	AVRG		0.20045		9.20206
215 2-Ethoxyethanol	++++ 0.51792	0.42285 0.52549	0.47954	0.52516	0.52837	++++	AVRG		0.49989		8.38245

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
216 Methylenebis(2-chloroaniline)	++++ 142048	6277 148483	11455	40462	45730	++++	LINR	0.27316	0.14330		0.99043
226 2,2'-Dichlorobenzil	++++ 0.71215	0.59788 0.70291	0.66206	0.72073	0.71613	0.74244	AVRG		0.69332		6.99662
227 4-Chlorothioanisole	++++ 0.25930	0.20331 0.24804	0.21700	0.24151	0.26540	0.25769	AVRG		0.24175		9.62932
228 4-Chlorothiophenol	++++ 247600	12270 307939	30972	80857	114712	184752	LINR	0.16005	0.23975		0.99896
229 bis(p-Chlorophenyl)sulfone	++++ 0.39735	0.34736 0.39315	0.36077	0.39486	0.39503	0.39986	AVRG		0.38406		5.45661
230 bis(p-Chlorophenyl)disulfide	++++ 0.14577	0.10928 0.14542	0.11986	0.12980	0.13311	0.14392	AVRG		0.13245		10.58857
231 Diphenyl disulfide	++++ 0.23836	0.21193 0.23438	0.21688	0.23163	0.23997	0.23801	AVRG		0.23016		4.87249
232 Diphenyl sulfide	++++ 0.74361	0.66124 0.71934	0.70896	0.74317	0.76547	0.74072	AVRG		0.72607		4.67353
233 Phenyl sulfone	++++ 0.43469	0.39312 0.41585	0.40349	0.42588	0.44208	0.42827	AVRG		0.42048		4.13878

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Compound	i	1C	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
234 Hydroxymethyl phthalimide	++++	0.10050	0.09040	0.09254	0.06606	0.08596					
	0.08347	0.08069				AVRG		0.08566			12.64277
235 Phthalic acid	++++	2679	9929	27171	36742	73761					
	98447	132685					LINEAR	0.30882	0.10480		0.99384
236 Thiophenol	++++	21569	49916	121864	167497	268557					
	351737	430285					LINEAR	0.10043	1.24069		0.99776
237 bis(Chloromethyl) ether	++++	0.82301	0.85537	0.90291	0.92091	0.93364					
	0.93454	0.83387					AVRG		0.89489		4.68453
238 Octachlorostyrene	++++	0.06203	0.06526	0.07137	0.07391	0.07247					
	0.07566	0.07470					AVRG		0.07077		7.27734
239 Dibenzo(a,h)pyrene	++++	0.27899	0.29299	0.26130	0.19709	0.21746					
	0.19156	0.30532					AVRG		0.24924		18.78029
240 Benzo(j)fluoranthene	++++	0.71408	0.79792	0.78355	0.90530	0.83654					
	0.84394	0.89100					AVRG		0.82319		7.81119
241 Dibenzo(a,j)acridine	++++	0.47090	0.48448	0.50634	0.43929	0.49660					
	0.53749	0.54782					AVRG		0.49756		7.55382
242 Dibenzo(a,h)acridine	++++	0.44960	0.46575	0.48978	0.41485	0.47441					
	0.50887	0.52897					AVRG		0.47603		7.96182

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 25-FEB-2010 03:29
 End Cal Date : 28-FEB-2010 15:40
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	%RSD or R^2
	Level 7	Level 8									
243 Quinoline	++++ 0.52741	0.49575 0.49996	0.51515	0.51844	0.53151	0.51320	AVRG		0.51449		2.55467
244 2,4-Toluene Diisocyanate	++++ 0.31134	0.27834 0.30799	0.31180	0.31498	0.32959	0.30397	AVRG		0.30829		5.01846
245 Dibenzo(a,i)pyrene	++++ 0.12004	0.18491 0.19857	0.19399	0.16566	0.11737	0.14105	AVRG		0.16023		21.42137
246 1-Nitropyrene	++++ 0.14085	0.05825 0.11988	0.06720	0.08899	0.08145	0.12424	AVRG		0.09727		32.19501
247 5-Methylchrysene	++++ 0.51803	0.44505 0.48405	0.47444	0.47675	0.49549	0.49789	AVRG		0.48453		4.72295
248 Dibenzo(a,l)pyrene	++++ 0.21052	0.26584 0.28064	0.26824	0.26786	0.19837	0.22100	AVRG		0.24464		13.66501
249 7H-Dibenzo(c,g)carbazole	++++ 0.34925	0.30878 0.37054	0.31668	0.34368	0.25878	0.31859	AVRG		0.32376		11.10683
250 1-Hexanol	++++ 0.89542	0.85211 0.85111	0.92574	0.94146	0.95065	0.81541	AVRG		0.89027		5.82639
251 Propylene glycol	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00

GEL Laboratories LLC
INITIAL CALIBRATION DATA

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 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
IM 222 Trichlorophenols	++++	0.23592	0.27931	0.30520	0.30785	++++	AVRG		0.29651		11.55941
	0.32129	0.32951									
IM 223 Tetrachlorophenols	++++	14203	29470	84648	97311	++++	LINR	0.12479	0.29336		0.99942
	222771	248937									
IM 224 Benzo(b,k)fluoranthene	0.85079	0.86993	0.98309	1.08453	1.16497	++++	AVRG		1.03773		13.17951
	1.14945	1.16136									
IM 225 TIO Sum Semivolatiles	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
	++++	++++									
I\$ 3 2-Fluorophenol	++++	0.81608	0.90901	0.96624	0.96007	++++	AVRG		0.93046		6.55710
	0.95099	0.98036									
I\$ 5 Phenol-d5	++++	1.02453	1.14032	1.20772	1.20054	++++	AVRG		1.16111		6.15460
	1.18734	1.20619									
I\$ 187 2-Chlorophenol-d4	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
	++++	++++									
I\$ 188 1,2-Dichlorobenzene-d4	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
	++++	++++									
I\$ 20 Nitrobenzene-d5	++++	0.28874	0.29893	0.29849	0.29261	++++	AVRG		0.28517		5.37049
	0.26849	0.26373									

GEL Laboratories LLC

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 Cal Date : 05-Mar-2010 07:47 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	n2	%RSD or R^2
	100 Level 7	120 Level 8									
\$ 39 2-Fluorobiphenyl	++++ 1.04630	0.98480 1.06033	1.08591	1.12792	1.13984	++++	AVRG		1.07418		5.31448
\$ 60 2,4,6-Tribromophenol	++++ 0.12192	0.10325 0.12865	0.11179	0.12188	0.11795	++++	AVRG		0.11757		7.59483
\$ 81 p-Terphenyl-d14	++++ 0.59672	0.64573 0.69860	0.55873	0.65580	0.67297	++++	AVRG		0.63809		8.07039

GEL Laboratories LLC

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Cal Date : 05-Mar-2010 07:47 jos00786

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

Report Date: 08-Mar-2010 14:14

Calibration History

Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
Start Cal Date: 26-FEB-2010 11:07
End Cal Date : 26-FEB-2010 23:46

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
26-FEB-2010 11:07	MEGA	/chem/MSD7.i/s022610.b/s7b2603.d
Cal Level: 2 , Cal Amount: 10.00000		
26-FEB-2010 21:36	NEV	/chem/MSD7.i/s022610.b/s7b2631.d
26-FEB-2010 19:05	PEST	/chem/MSD7.i/s022610.b/s7b2624.d
26-FEB-2010 16:34	AP12	/chem/MSD7.i/s022610.b/s7b2617.d
26-FEB-2010 14:44	MEGA	/chem/MSD7.i/s022610.b/s7b2612.d
Cal Level: 3 , Cal Amount: 20.00000		
26-FEB-2010 21:58	NEV	/chem/MSD7.i/s022610.b/s7b2632.d
26-FEB-2010 19:26	PEST	/chem/MSD7.i/s022610.b/s7b2625.d
26-FEB-2010 16:56	AP12	/chem/MSD7.i/s022610.b/s7b2618.d
26-FEB-2010 15:08	MEGA	/chem/MSD7.i/s022610.b/s7b2613.d
Cal Level: 4 , Cal Amount: 40.00000		
26-FEB-2010 22:19	NEV	/chem/MSD7.i/s022610.b/s7b2633.d
26-FEB-2010 19:48	PEST	/chem/MSD7.i/s022610.b/s7b2626.d
26-FEB-2010 17:17	AP12	/chem/MSD7.i/s022610.b/s7b2619.d
26-FEB-2010 12:19	MEGA	/chem/MSD7.i/s022610.b/s7b2606.d
Cal Level: 5 , Cal Amount: 50.00000		
26-FEB-2010 22:40	NEV	/chem/MSD7.i/s022610.b/s7b2634.d
26-FEB-2010 20:09	PEST	/chem/MSD7.i/s022610.b/s7b2627.d
26-FEB-2010 17:39	AP12	/chem/MSD7.i/s022610.b/s7b2620.d
26-FEB-2010 12:43	MEGA	/chem/MSD7.i/s022610.b/s7b2607.d
Cal Level: 6 , Cal Amount: 80.00000		
26-FEB-2010 23:02	NEV	/chem/MSD7.i/s022610.b/s7b2635.d
26-FEB-2010 20:31	PEST	/chem/MSD7.i/s022610.b/s7b2628.d
26-FEB-2010 18:00	AP12	/chem/MSD7.i/s022610.b/s7b2621.d
26-FEB-2010 13:07	MEGA	/chem/MSD7.i/s022610.b/s7b2608.d
Cal Level: 7 , Cal Amount: 100.00000		
26-FEB-2010 23:24	NEV	/chem/MSD7.i/s022610.b/s7b2636.d
26-FEB-2010 20:52	PEST	/chem/MSD7.i/s022610.b/s7b2629.d
26-FEB-2010 18:22	AP12	/chem/MSD7.i/s022610.b/s7b2622.d
26-FEB-2010 13:32	MEGA	/chem/MSD7.i/s022610.b/s7b2609.d

Cal Level: 8 , Cal Amount: 120.00000			
26-FEB-2010	23:46	NEV	/chem/MSD7.i/s022610.b/s7b2637.d
26-FEB-2010	21:14	PEST	/chem/MSD7.i/s022610.b/s7b2630.d
26-FEB-2010	18:43	AP12	/chem/MSD7.i/s022610.b/s7b2623.d
26-FEB-2010	13:56	MEGA	/chem/MSD7.i/s022610.b/s7b2610.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0			
08-MAR-2010	10:38	MEGA	/chem/MSD7.i/s030810.b/s7c0804.d
Ccal Level: 4 , Ccal Amount: 40.0			
08-MAR-2010	11:02	AP12	/chem/MSD7.i/s030810.b/s7c0805.d
Ccal Level: 4 , Ccal Amount: 40.0			
08-MAR-2010	08:49	MEGA	/chem/MSD7.i/s030810.b/s7c0802.d

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 11:07
 End Cal Date : 26-FEB-2010 23:46
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Cal Date : 08-Mar-2010 12:08 jos00786

Calibration File Names:

Level 1: /chem/MSD7.i/s022610.b/s7b2603.d
 Level 2: /chem/MSD7.i/s022610.b/s7b2631.d
 Level 3: /chem/MSD7.i/s022610.b/s7b2632.d
 Level 4: /chem/MSD7.i/s022610.b/s7b2633.d
 Level 5: /chem/MSD7.i/s022610.b/s7b2634.d
 Level 6: /chem/MSD7.i/s022610.b/s7b2635.d
 Level 7: /chem/MSD7.i/s022610.b/s7b2636.d
 Level 8: /chem/MSD7.i/s022610.b/s7b2637.d

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
1 N-Methyl-N-nitrosomethylamine	++++ 0.72207	0.70129 0.68805	0.69307	0.69919	0.69205	0.70435	AVRG	0.70001			1.61027
2 Pyridine	++++ 0.98956	0.94944 0.94873	0.95786	0.97202	0.96726	0.96770	AVRG		0.96465		1.47919
4 Aniline	++++ 0.63008	0.63884 0.60716	0.62715	0.61554	0.61939	0.61456	AVRG	0.62182			1.73598
209 Benzaldehyde	++++ 0.79412	0.95833 0.72945	0.92226	0.84939	0.85637	0.79340	AVRG		0.84333		9.38003
6 Phenol	++++ 1.30161	1.32624 1.24826	1.33308	1.29840	1.28556	1.27125	AVRG		1.29492		2.29936

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 11:07
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 Integrator : HP RTE
 Method file : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
7 bis(2-Chloroethyl) ether	++++ 1.03135	1.10103 0.97582	1.14462 0.97582	1.07089 0.97770	1.07731 0.97692	1.02082 0.96049	AVRG		1.06026		5.26596
8 2-Chlorophenol	++++ 0.98254	1.05514 0.94585	1.03806 0.94585	0.97770 0.97770	0.97692 0.97692	0.96049 0.96049	AVRG		0.99096		4.06684
203 n-Decane	++++ ++++	2.18082 ++++	2.07044 ++++	1.82788 1.24409	1.73590 1.22768	1.49542 1.22115	AVRG		1.86209		14.62211
9 1,3-Dichlorobenzene	++++ 1.22703	1.32145 1.17739	1.29459 1.17739	1.24409 1.24409	1.22768 1.22768	1.22115 1.22115	AVRG		1.24478		3.88965
11 1,4-Dichlorobenzene	++++ 1.17850	1.23354 1.13378	1.24697 1.13378	1.20326 0.66588	1.18250 0.67064	1.16238 0.67714	AVRG		1.19442		3.65492
12 Benzyl alcohol	++++ 0.69639	0.67067 0.66876	0.67376 0.66876	0.66588 1.10021	0.67064 1.10063	0.67714 1.06192	AVRG		0.67475		1.51022
13 1,2-Dichlorobenzene	++++ 1.06520	1.18780 1.01341	1.16188 1.01341	1.10021 2.77975	1.10063 2.49732	1.06192 2.25102	AVRG		1.09872		5.47171
14 bis(2-Chloroisopropyl) ether	++++ 2.22248	2.84346 2.05488	2.77975 2.05488	2.54436 0.79686	2.49732 0.80251	2.25102 0.77550	AVRG		2.45618		12.00760
15 o-Cresol	++++ 0.77566	0.82975 0.73522	0.83763 0.73522	0.79686 0.79686	0.80251 0.80251	0.77550 0.77550	AVRG		0.79330		4.42431

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 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m ¹	m ²	%RSD or R ²
16 Acetophenone	++++ 1.05199	1.19544 1.05015	1.16930	1.11939	1.09905	1.06063	AVRG		1.10656		5.25990
17 N-Nitrosodipropylamine	++++ 0.68312	0.78986 0.68292	0.78126	0.76761	0.76071	0.69101	AVRG		0.73664		6.60276
18 m,p-Cresols	++++ 1.09460	1.06688 1.06712	1.08137	1.06240	1.06282	1.06806	AVRG		1.07190		1.10409
19 Hexachloroethane	++++ 0.46127	0.47830 0.44002	0.48853	0.45909	0.46017	0.45910	AVRG		0.46378		3.35369
21 Nitrobenzene	++++ 0.25178	0.32599 0.23906	0.31564	0.28441	0.27994	0.26223	AVRG		0.27987		11.47927
22 Isophorone	++++ 0.50295	0.60055 0.47946	0.58304	0.55409	0.54916	0.51583	AVRG		0.54073		8.06835
23 2-Nitrophenol	++++ 0.12051	0.15519 0.11450	0.14330	0.13006	0.13093	0.12549	AVRG		0.13143		10.52994
24 2,4-Dimethylphenol	++++ 905583	114168 998411	218277	376135	452448	745396	WLNLR	-0.12517	0.21482		0.99550
25 bis(2-Chloroethoxy)methane	++++ 0.27212	0.33736 0.25761	0.32731	0.30205	0.29544	0.27901	AVRG		0.29584		9.81641

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 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
26 2,4-Dichlorophenol	++++ 0.19857	0.23284 0.18877	0.23115	0.21499	0.21340	0.20610	AVRG		0.21226		7.61142
27 Benzoic acid	++++ 0.13489	++++ 0.14008	0.09399	0.10823	0.11656	0.13120	AVRG		0.12083		14.68354
28 1,2,4-Trichlorobenzene	++++ 0.23181	0.29769 0.21987	0.28901	0.26508	0.25660	0.24189	AVRG		0.25742		11.19881
30 Naphthalene	0.86793 0.66692	0.85653 0.62198	0.82594	0.76646	0.74263	0.69647	AVRG		0.75561		11.96904
204 alpha-Terpineol	++++ ++++	0.36073 ++++	0.33018	0.30395	0.29238	0.25678	AVRG		0.30880		12.69973
31 4-Chloroaniline	++++ 0.33031	0.39138 0.31443	0.38394	0.36323	0.35125	0.34226	AVRG		0.35383		7.86879
189 Caprolactam	++++ 0.07119	0.07270 0.07132	0.07721	0.07751	0.07660	0.07453	AVRG		0.07444		3.68543
32 Hexachlorobutadiene	++++ 0.12160	0.15432 0.11448	0.14969	0.13784	0.13578	0.12669	AVRG		0.13434		10.80519
33 4-Chloro-3-methylphenol	++++ 0.21618	0.23968 0.20719	0.24055	0.23641	0.23018	0.22561	AVRG		0.22797		5.51338

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	n2	%RSD or R^2
34 2-Methylnaphthalene	0.60775 0.48115	0.60694 0.45486	0.59172	0.55334	0.53860	0.50400	AVRG		0.54229		10.77312
35 1-Methylnaphthalene	0.59454 0.45314	0.58640 0.42590	0.56002	0.52389	0.50625	0.47447	AVRG		0.51558		12.04862
36 Hexachlorocyclopentadiene	++++ 0.18724	0.17760 0.17253	0.20342	0.20161	0.19061	0.22063	AVRG		0.19338		8.54937
208 1,1'-Biphenyl	++++ 0.99895	1.26811 0.96709	1.22170	1.13538	1.10081	1.02216	AVRG		1.10203		10.36141
205 2,3-Dichloroaniline	++++ 0.46688	0.55167 0.45276	0.53296	0.49182	0.48955	0.47670	AVRG		0.49462		7.19612
37 2,4,6-Trichlorophenol	++++ 0.27579	0.28591 0.26511	0.29017	0.28397	0.28642	0.27709	AVRG		0.28064		3.05262
38 2,4,5-Trichlorophenol	++++ 0.27188	0.30067 0.27453	0.30400	0.27441	0.27725	0.27297	AVRG		0.28225		4.90941
40 2-Chloronaphthalene	0.98968 0.87923	0.98865 0.85223	0.96920	0.92181	0.91661	0.88930	AVRG		0.92584		5.61667
42 o-Nitroaniline	++++ 0.32556	0.32650 0.31936	0.33651	0.32632	0.33065	0.32955	AVRG		0.32778		1.61097

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
41 m-Nitroaniline	++++ 0.23907	0.22126 0.23834	0.24562	0.23943	0.24325	0.24756	AVRG		0.23922		3.62078
43 Dimethylphthalate	++++ 1.02706	1.44209 0.99596	1.13350	1.05960	1.05899	1.02333	AVRG		1.06293		5.23993
44 2,6-Dinitrotoluene	++++ 0.23967	0.26499 0.22978	0.26039	0.24328	0.24493	0.23535	AVRG		0.24549		5.23468
45 Acenaphthylene	1.61531 1.39129	1.62844 1.34156	1.56002	1.45485	1.44949	1.39892	AVRG		1.47998		7.30956
47 Acenaphthene	0.94291 0.85153	0.93284 0.80716	0.92839	0.86375	0.86944	0.84726	AVRG		0.88041		5.54006
48 2,4-Dinitrophenol	++++ 192071	++++ 221189	22189	53016	65432	148984	LINR	0.35875	0.10576		0.99409
49 Dibenzofuran	++++ 1.18290	1.35809 1.13131	1.3389	1.22166	1.23984	1.19992	AVRG		1.23737		6.61916
50 2,4-Dinitrotoluene	++++ 0.32862	0.32035 0.31860	0.33058	0.31874	0.32457	0.32389	AVRG		0.32362		1.46117
51 Diethylphthalate	++++ 1.05225	1.16778 1.02521	1.15242	1.07866	1.08210	1.05762	AVRG		1.08801		4.86063

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 Method file : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
52 4-Nitrophenol	++++ 0.17989	0.12189 0.17224	0.15319 0.16924	0.16712 0.17578	0.16712 0.17578	0.16712 0.17578	AVRG	0.16277	0.16277		12.22482
53 Fluorene	1.15003 0.97276	1.14913 0.93722	1.10994 0.97222	1.00309 0.97807	1.00564 0.97807	1.00564 0.97807	AVRG	1.03823	1.03823		8.16853
54 4-Chlorophenylphenylether	++++ 0.50180	0.55230 0.47955	0.54732 0.47955	0.51155 0.51155	0.51708 0.51708	0.50214 0.50214	AVRG	0.51596	0.51596		5.03023
55 2-Methyl-4,6-dinitrophenol	++++ 311718	14243 360208	47063 360208	96235 96235	19327 19327	243903 243903	ILINR	0.20375	0.08692		0.99607
56 p-Nitroaniline	++++ 0.23233	0.15936 0.22347	0.20880 0.22347	0.22482 0.22482	0.21785 0.21785	0.23101 0.23101	AVRG	0.21538	0.21538		10.12479
133 Diphenylamine	++++ 0.45503	0.52306 0.43996	0.50517 0.43996	0.46428 0.46428	0.46066 0.46066	0.45126 0.45126	AVRG	0.47134	0.47134		6.50344
58 1,2-Diphenylhydrazine	++++ 0.56834	0.65962 0.54070	0.63737 0.54070	0.59463 0.59463	0.58510 0.58510	0.56518 0.56518	AVRG	0.59299	0.59299		7.08469
59 Tributylphosphate	++++ 1.01650	1.33867 0.99882	1.16678 0.99882	1.14080 0.99882	1.10893 1.10893	1.04610 1.04610	AVRG	1.11666	1.11666		10.42695
61 4-Bromophenylphenylether	++++ 0.16098	0.17755 0.15611	0.17375 0.15611	0.16178 0.16178	0.16189 0.16189	0.15944 0.15944	AVRG	0.16450	0.16450		4.82846

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
63 Hexachlorobenzene	++++ 0.15658	0.17131 0.15273	0.16786	0.15738	0.15772	0.15513	AVRG		0.15982		4.34833
207 Atrazine	++++ 0.03600	0.04508 0.03123	0.04317	0.03751	0.03999	0.03673	AVRG		0.03853		12.10180
65 Pentachlorophenol	++++ 0.08346	0.05499 0.08259	0.07351	0.07546	0.07788	0.08148	AVRG		0.07563		12.99894
206 n-Octadecane	++++ 0.38282	0.66517 0.35591	0.62877	0.54339	0.51312	0.41990	AVRG		0.50130		23.99535
68 Phenanthrene	0.92440	0.87829	0.87153	0.80635	0.79576	0.77327	AVRG		0.82082		7.68182
69 Anthracene	0.90440	0.90373	0.89117	0.81712	0.81109	0.79018	AVRG		0.83131		7.25516
72 Di-n-butylphthalate	0.78315	0.74963	1.12517	1.05910	1.04864	1.00051	AVRG		1.04581		6.45939
76 Fluoranthene	0.90224	0.97031	0.96017	0.89278	0.88802	0.86786	AVRG		0.89248		6.00409
77 Benzidine	0.84840	0.81005	0.36246	0.36565	0.35403	0.36544	AVRG		0.37412		6.64046

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
79 Pyrene	1.32405	1.35159	1.31284	1.20723	1.21760	1.15073	AVRG	1.26367	5.36819		
85 Butylbenzylphthalate	++++	0.59662	0.60220	0.59072	0.60132	0.58013	AVRG	0.60092	2.27892		
89 Benzo(a)anthracene	1.05093	0.96816	0.96328	0.93178	0.93105	0.93332	AVRG	0.95891	4.2524		
90 3,3'-Dichlorobenzidine	++++	0.26681	0.28620	0.29510	0.27316	0.27699	AVRG	0.27910	4.28355		
92 Chrysene	0.89020	0.89976	0.89113	0.83925	0.84009	0.82315	AVRG	0.85329	4.2177		
93 bis(2-Ethylhexyl)phthalate	++++	0.80174	0.80809	0.78600	0.73624	0.74158	AVRG	0.76109	3.48672		
94 Di-n-octylphthalate	0.75155	0.74362	1.51090	1.49260	1.57749	1.70881	AVRG	1.60621	6.52248		
95 Benzo(b)fluoranthene	1.02704	1.09919	1.10279	1.13249	1.13619	1.13403	AVRG	1.12177	4.15603		
96 Benzo(k)fluoranthene	1.03689	1.14562	1.11676	0.99048	1.02425	1.04585	AVRG	1.05423	4.86067		

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
97 Benzo(a)pyrene	0.82018	0.92251	0.95324	0.92574	0.93085	0.93108	AVRG		0.92981		4.54058
	0.94872	0.92634									
99 Indeno(1,2,3-cd)pyrene	0.61793	0.62224	0.69390	0.69944	0.67832	0.64625	AVRG		0.66143		4.85925
	0.68582	0.64752									
100 Dibenzo(a,h)anthracene	0.47565	0.47818	0.54251	0.56597	0.53673	0.52054	AVRG		0.52416		6.20836
	0.55040	0.52332									
101 Benzo(ghi)perylene	0.56533	0.53785	0.58606	0.57992	0.55056	0.51978	AVRG		0.55161		4.48630
	0.55186	0.52150									
102 1,4-Dioxane	++++	0.36384	0.36610	0.33417	0.33077	0.31979	AVRG		0.33513		6.45342
	0.31717	0.31403									
103 Methyl methacrylate	++++	0.21020	0.20726	0.19621	0.19212	0.18889	AVRG		0.19562		4.88183
	0.18592	0.18875									
104 Ethyl methacrylate	++++	0.79610	0.79733	0.75341	0.75358	0.72166	AVRG		0.75140		4.58534
	0.71755	0.72015									
105 2-Picoline	++++	1.22561	1.21665	1.13966	1.12899	1.08441	AVRG		1.13566		5.59082
	1.07670	1.07757									
106 N-Nitrosomethylethylamine	++++	0.47452	0.46462	0.43928	0.44021	0.42769	AVRG		0.44142		4.71501
	0.42281	0.42081									

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Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
107 Methyl methanesulfonate	++++ 0.49709	0.54758 0.45892	0.54286	0.49884	0.51161	0.49538	AVRG		0.50747		6.00086
108 N-Nitrosodiethylamine	++++ 0.45400	0.49539 0.45358	0.49681	0.46847	0.46768	0.45500	AVRG		0.47013		3.99967
109 Ethyl Methanesulfonate	++++ 0.60616	0.65591 0.59583	0.64231	0.61640	0.62051	0.60576	AVRG		0.62041		3.46816
110 Pentachloroethane	++++ 0.29355	0.33091 0.28904	0.32767	0.30927	0.31189	0.29650	AVRG		0.30840		5.34098
111 N-Nitrosopyrrolidine	++++ 0.47931	0.51068 0.47906	0.50360	0.49590	0.49956	0.48726	AVRG		0.49363		2.46520
113 N-Nitrosomorpholine	++++ 0.74142	0.93269 0.69563	0.89548	0.84559	0.81841	0.76963	AVRG		0.81412		10.39747
114 o-Toluidine	++++ 1.45788	1.66749 1.43454	1.62690	1.57357	1.54322	1.47535	AVRG		1.53985		5.74695
115 N-Nitrosopiperidine	++++ 0.12960	0.13839 0.12740	0.13649	0.13206	0.12980	0.12760	AVRG		0.13162		3.26869
116 a,a-Dimethylphenethylamine	++++ 1.00353	0.91907 0.99978	0.96417	0.99553	0.99366	0.99806	AVRG		0.98197		3.12063

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
117 Triethylphosphorothioate	++++ 0.12191	0.13478 0.12398	0.13459 0.13266	0.13266 0.13072	0.13072 0.12464	0.12464 AVRG	AVRG		0.12904		4.19259
118 2,6-Dichlorophenol	++++ 0.20199	0.20253 0.19907	0.20749 0.20261	0.20261 0.20410	0.20410 0.20112	0.20112 AVRG	AVRG		0.20270		1.29027
119 Hexachloropropene	++++ 0.10645	0.10438 0.09827	0.10831 0.10725	0.10725 0.10671	0.10671 0.10478	0.10478 AVRG	AVRG		0.10516		3.16694
120 p-Phenylenediamine	++++ 0.19547	0.25668 ++++	0.25068 0.22690	0.22690 0.21252	0.21252 0.19855	0.19855 AVRG	AVRG		0.22347		11.63559
121 N-Nitrosodi-n-butylamine	++++ 0.18394	0.23441 0.17781	0.23451 0.20097	0.20097 0.18967	0.18967 0.18327	0.18327 AVRG	AVRG		0.20065		12.35548
122 Saffrole	++++ 0.17654	0.20181 0.17363	0.19524 0.18624	0.18624 0.18455	0.18455 0.17874	0.17874 AVRG	AVRG		0.18525		5.52554
123 1,2,4,5-Tetrachlorobenzene	++++ 0.36184	0.44061 0.35421	0.42948 0.34949	0.40210 0.33088	0.39235 0.32487	0.37114 0.31439	AVRG		0.39310		8.45898
124 Isosafrole	++++ 0.31016	0.35170 0.30561	0.34949 0.30561	0.33088 0.288344	0.32487 333563	0.31439 495061	AVRG		0.32673		5.63612
125 1,4-Naphthoquinone	++++ ++++	84638 ++++	151030 ++++	288344 ++++	333563 ++++	495061 LINR	AVRG	-0.21821	0.24057		0.99067

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Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
126 m-Dinitrobenzene	++++ 0.16971	0.16835 0.16651	0.17531	0.16597	0.1732	0.16929	AVRG		0.16950		1.86258
127 Pentachlorobenzene	++++ 0.33507	0.37874 0.33064	0.37429	0.35898	0.35476	0.34124	AVRG		0.35339		5.31101
128 1-Naphthylamine	++++ 0.81523	0.93808 0.76509	0.91662	0.87727	0.86662	0.82419	AVRG		0.85758		7.04454
129 2-Naphthylamine	++++ 0.87021	1.00958 0.81954	0.98980	0.95445	0.92796	0.89640	AVRG		0.92399		7.28200
130 2,3,4,6-Tetrachlorophenol	++++ 0.24128	0.21848 0.23864	0.23607	0.22847	0.23258	0.23782	AVRG		0.23333		3.33623
131 5-Nitro-o-toluidine	++++ 0.27596	0.26504 0.26950	0.27296	0.28000	0.27202	0.27408	AVRG		0.27279		1.74037
132 Thionazin	++++ 0.15093	0.15991 0.15034	0.16333	0.16125	0.15716	0.15263	AVRG		0.15651		3.35420
134 Sulfotepp	++++ 0.08302	0.08069 0.08521	0.08457	0.08225	0.08109	0.08247	AVRG		0.08276		2.01929
135 Phorate	++++ 0.35368	0.38094 0.35136	0.39212	0.38013	0.37064	0.35768	AVRG		0.36950		4.24438

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Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
136 1,3,5-Trinitrobenzene	++++ 0.12517	0.09043 0.12301	0.10798 0.11736	0.11736 0.11408	0.11408	0.12051	AVRG		0.1408		10.44181
137 Phenacetin	++++ 0.25182	0.25499 0.24676	0.26014	0.25425	0.24643	0.24758	AVRG		0.25171		2.03791
138 Diallyl	++++ 0.20757	0.24308 0.20177	0.23259	0.21969	0.22000	0.21354	AVRG		0.21975		6.48800
139 Dimethoate	++++ 0.21588	0.19708 0.21951	0.21294	0.21778	0.21356	0.21259	AVRG		0.21276		3.47043
140 4-Aminobiphenyl	++++ 0.51979	0.52229 0.49365	0.52744	0.56450	0.55560	0.53372	AVRG		0.53100		4.44590
141 Pentachloronitrobenzene	++++ 0.04994	0.06861 0.04776	0.06544	0.05979	0.05907	0.05327	AVRG		0.05770		13.49738
142 Pronamide	++++ 0.19922	0.27668 0.18795	0.26559	0.24232	0.23613	0.21408	AVRG		0.23171		14.29562
143 Dinoseb	++++ 493335	2314 540450	69548	148150	183225	380967	LINR	0.23422	0.13388		0.99412
144 Disulfoton	++++ 0.26930	0.27927 0.27042	0.28869	0.28141	0.27781	0.27141	AVRG		0.27690		2.53496

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Compound	1	10	20	40	50	80	Curve	b	Coefficients ml	m2	%RSD or R ²
145 Methyl parathion	++++ 0.19781	0.16580 0.20132	0.18496	0.19619	0.19321	0.19447	AVRG		0.19054		6.30793
146 4-Nitroquinoline-i-oxide	++++ 0.01632	0.02797 0.01115	0.02417	0.02069	0.01676	0.01596	AVRG		0.01900		29.85349<-
147 Methapyrilene	++++ 0.41014	0.53870 0.36742	0.5095	0.46211	0.46851	0.42818	AVRG		0.45514		12.92653
148 Isodrin	++++ 0.09427	0.11198 0.09263	0.10591	0.10106	0.10099	0.09653	AVRG		0.10048		6.77327
149 Aramite	++++ 0.04216	0.04288 0.03955	0.04473	0.04328	0.04492	0.04294	AVRG		0.04292		4.18340
150 Kepone	++++ 0.06429	0.06821 0.06037	0.06688	0.06300	0.06292	0.06376	AVRG		0.06421		4.07909
151 p-(Dimethylamino)azobenzene	++++ 0.29295	0.31886 0.31135	0.31858	0.30561	0.32564	0.30896	AVRG		0.31171		3.43876
152 Chlorobenzilate	++++ 0.25667	0.28015 0.28081	0.27293	0.26692	0.28307	0.27552	AVRG		0.27373		3.40002
153 3,3'-Dimethylbenzidine	++++ 0.53500	0.54411 0.48082	0.53267	0.52587	0.52765	0.52481	AVRG		0.52442		3.87777

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
154 Farnhur	++++ 0.40965	0.39508 0.43249	0.41129	0.40963	0.41295	0.41166	AVRG		0.41182		2.65732
155 2-Acetylaminofluorene	++++ 0.33855	0.26940 0.30308	0.30220	0.33126	0.30846	0.31630	AVRG		0.30989		7.29418
157 7,2Dimethylbenz(a)anthracene	++++ 0.48120	0.52071 0.52556	0.52087	0.48902	0.53422	0.51784	AVRG		0.51277		3.85020
158 3-Methylcholanthrene	++++ 0.36907	0.37699 0.35258	0.38496	0.38662	0.36457	0.36689	AVRG		0.37167		3.24545
26 Phthalic anhydride	++++ 444882	19947 524437	70183	158750	199408	349686	LINR	0.08827	0.11204		0.99920
173 Carbazole	0.74030	0.66266	0.66768	0.67537	0.66904	0.68801	AVRG		0.68135		3.83434
174 Hexachlorophene	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
179 Dibenzo(a,e)pyrene	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
185 (2,3-Dibromopropyl)phosphate	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00

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Compound	1	10	20	40	50	80	Curve	b	Coefficients m:	n2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
184 p-Benzquinone	++++	0.19714	0.23527	0.25694	0.31440	0.23557	AVRG				
	0.31801	0.30125							0.26551		17.51997
191 Parathion	++++	0.05144	0.05751	0.06005	0.05987	0.06048	AVRG				
	0.06192	0.06233							0.05908		6.29535
192 Methoxychlor	++++	0.56403	0.62279	0.57547	0.58466	0.59921	AVRG				
	0.60284	0.57646							0.58935		3.40697
210 m-Toluidine	++++	1.18361	1.14196	1.27790	1.40428	1.45000	AVRG				
	1.57819	1.58735							1.37475		13.05381
211 p-Toluidine	++++	1.19395	1.14859	1.22108	1.12140	1.12246	AVRG				
	1.05038	0.88521							1.10616		10.11699
212 Cis Diallate	++++	0.24942	0.23954	0.22264	0.22308	0.21957	AVRG				
	0.22207	0.21623							0.22751		5.34742
213 Trans Diallate	++++	0.28598	0.27364	0.25845	0.25883	0.25122	AVRG				
	0.24420	0.23737							0.25853		6.48800
214 1,4-Dinitrobenzene	++++	0.18254	0.19379	0.19206	0.19366	0.19651	AVRG				
	0.20200	0.19895							0.19422		3.18627
215 2-Ethoxyethanol	++++	0.93089	0.91998	0.93387	0.92416	0.93722	AVRG				
	0.95789	0.91578							0.93140		1.49848

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 11:07
 End Cal Date : 26-FEB-2010 23:46
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
216 Methylenabis(2-chloroaniline)	++++ 0.14401	0.12024 0.13627	0.12176	0.13402	0.13327	0.14612	AVRG		0.13367		7.42615
226 2,2'-Dichlorobenzil	++++ 0.68011	0.74065 0.68665	0.73565	0.70509	++++	0.72929	AVRG		0.71291		3.64786
227 4-Chlorothiobisole	++++ 0.23939	0.24526 0.23754	0.24532	0.24448	++++	0.24005	AVRG		0.24201		1.41023
228 4-Chlorothiophenol	++++ 861327	44415 1051275	134478	332577	++++	710506	LINE	0.12298	0.22403		0.99993
229 bis(p-Chlorophenyl)sulfone	++++ 0.37609	0.43969 0.37535	0.42531	0.39518	++++	0.40060	AVRG		0.40204		6.48066
230 bis(p-Chlorophenyl)disulfide	++++ 0.15153	0.15840 0.15686	0.15651	0.15172	++++	0.15893	AVRG		0.15566		2.08939
231 Diphenyl disulfide	++++ 0.19738	0.21133 0.19810	0.20952	0.20464	++++	0.20130	AVRG		0.20371		2.86119
232 Diphenyl sulfide	++++ 0.70255	0.80314 0.67955	0.78782	0.74734	++++	0.71349	AVRG		0.73898		6.65171
233 Phenyl sulfone	++++ 0.38088	0.41846 0.37013	0.41107	0.39335	++++	0.38576	AVRG		0.39328		4.68458

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 11:07
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R ²
234 Hydroxymethyl phthalimide	Level 1 ++++ 238858	Level 2 34368 310774	Level 3 69527	Level 4 111795	Level 5 ++++	Level 6 219245	Level 6 LINR	-0.17168	0.10332		0.99434
235 Phthalic acid	Level 7 ++++ 377273	Level 8 10272 ++++	35793	103964	++++	317426	LINR	0.28377	0.10603		0.99240
236 Thiophenol	Level 1 ++++ 1.04045	Level 2 0.72677 1.04474	0.87316	0.98094	++++	1.05176	AVRG		0.95297		13.61346
237 bis(Chloromethyl)ether	Level 1 ++++ 0.78408	Level 2 0.87445 0.78451	0.86289	0.81012	++++	0.81952	AVRG		0.82259		4.68064
238 Octachlorostyrene	Level 1 ++++ 0.05255	Level 2 0.05791 0.05173	0.05657	0.05363	++++	0.05348	AVRG				
239 Dibenzo(a,h)pyrene	Level 1 ++++ ++++	Level 2 ++++ ++++	++++	++++	++++	++++	AVRG		0.05431		4.42948
240 Benzo(j)fluoranthene	Level 1 ++++ ++++	Level 2 ++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
241 Dibenzo(a,j)acridine	Level 1 ++++ ++++	Level 2 ++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
242 Dibenzo(a,h)acridine	Level 1 ++++ ++++	Level 2 ++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00

GEL Laboratories LLC

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Start Cal Date : 26-FEB-2010 11:07
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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
243 Quinoline	++++ Level 7	++++ Level 8	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
244 2,4-Toluene Diisocyanate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
245 Dibenzo(a,i)pyrene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
246 1-Nitropyrene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
247 5-Methylchrysene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
248 Dibenzo(a,l)pyrene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
249 7H-Dibenzo(c,g)carbazole	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
250 1-Hexanol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
251 Propylene glycol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00

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 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
IM 222 Trichlorophenols	++++ 0.27383	0.23329 0.26982	0.29709	0.27919	0.28184	0.27503	AVRG		0.28144		3.62457
IM 223 Tetrachlorophenols	++++ 0.24128	0.21848 0.23864	0.23607	0.22847	0.23258	0.23782	AVRG		0.23333		3.33623
IM 224 Benzo(b,k)fluoranthene	1.03196 1.11003	1.12240 1.09819	1.10977	1.06149	1.08022	1.08994	AVRG		1.08800		2.72527
IM 225 TIO Sum Semivolatiles	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		<-
IS 3 2-Fluorophenol	++++ 1.06812	1.02520 1.03245	1.04766	1.03008	1.03008	1.04425	AVRG		1.03969		1.43708
IS 5 Phenol-d5	++++ 1.33151	1.28367 1.28181	1.32223	1.29638	1.30385	1.30539	AVRG		1.30355		1.41909
IS 187 2-Chlorophenol-d4	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		<-
IS 188 1,2-Dichlorobenzene-d4	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		<-
IS 20 Nitrobenzene-d5	++++ 0.27238	0.34547 0.26228	0.33539	0.30609	0.30256	0.28769	AVRG		0.30169		10.19977

GEL Laboratories LLC

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 Integrator : HP RTE
 Method file : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Cal Date : 08-Mar-2010 12:08 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients	m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	100	120										
	Level 7	Level 8										
\$ 39 2-Fluorobiphenyl	++++ 0.93181	1.14787 0.89582	1.07616	0.99829	0.98540	0.94271	AVRG			0.99687		8.84048
\$ 60 2,4,6-Tribromophenol	++++ 0.12293	0.10553 0.12210	0.11240	0.11152	0.11625	0.11870	AVRG			0.11563		5.40333
\$ 81 p-Terphenyl-d14	++++ 0.74275	0.74292 0.74998	0.72004	0.68997	0.69903	0.67156	AVRG			0.71661		4.24404

GEL Laboratories LLC
INITIAL CALIBRATION DATA

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Cal Date : 08-Mar-2010 12:08 jos00786

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

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 25-FEB-2010 16:10
Lab File ID: s4b2463.d Init. Cal. Date(s): 25-FEB-2010 25-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:48
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD4.i/s022410a.b/MSD4-M8270C-AQA-022410A.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	0.93046	0.96457	0.96457	0.000	3.66668	60.00000	Averaged
5 Phenol-d5	1.16111	1.16461	1.16461	0.000	0.30165	60.00000	Averaged
20 Nitrobenzene-d5	0.28517	0.30116	0.30116	0.000	5.60916	60.00000	Averaged
39 2-Fluorobiphenyl	1.07418	1.13724	1.13724	0.000	5.86975	60.00000	Averaged
60 2,4,6-Tribromophenol	0.11757	0.12316	0.12316	0.000	4.75082	60.00000	Averaged
81 p-Terphenyl-d14	0.63809	0.73133	0.73133	0.000	14.61257	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.64917	0.63681	0.63681	0.000	-1.90448	60.00000	Averaged
2 Pyridine	0.89300	0.95183	0.95183	0.000	6.58702	60.00000	Averaged
4 Aniline	0.50637	0.47754	0.47754	0.000	-5.69345	60.00000	Averaged
6 Phenol	1.20170	1.22597	1.22597	0.001	2.01976	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	0.80331	0.75384	0.75384	0.000	-6.15758	60.00000	Averaged
8 2-Chlorophenol	1.03215	1.09920	1.09920	0.000	6.49656	60.00000	Averaged
203 n-Decane	1.00759	1.08975	1.08975	0.000	8.15370	60.00000	Averaged
9 1,3-Dichlorobenzene	1.16391	1.20462	1.20462	0.000	3.49767	60.00000	Averaged
11 1,4-Dichlorobenzene	1.23800	1.25791	1.25791	0.001	1.60791	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.11179	1.19048	1.19048	0.000	7.07755	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.36142	1.34864	1.34864	0.000	-0.93885	60.00000	Averaged
12 Benzyl alcohol	0.56740	0.56289	0.56289	0.000	-0.79516	60.00000	Averaged
15 o-Cresol	0.83040	0.86101	0.86101	0.000	3.68643	60.00000	Averaged
18 m,p-Cresols	0.99713	1.02588	1.02588	0.000	2.88372	60.00000	Averaged
17 N-Nitrosodipropylamine	0.77345	0.77526	0.77526	0.050	0.23375	60.00000	Averaged spcc
19 Hexachloroethane	0.45942	0.46113	0.46113	0.000	0.37268	60.00000	Averaged
21 Nitrobenzene	0.27158	0.27266	0.27266	0.000	0.39802	60.00000	Averaged
22 Isophorone	0.49835	0.48387	0.48387	0.000	-2.90517	60.00000	Averaged
23 2-Nitrophenol	0.13559	0.14419	0.14419	0.001	6.33982	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.22585	0.22406	0.22406	0.000	-0.79217	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.29655	0.27990	0.27990	0.000	-5.61587	60.00000	Averaged
26 2,4-Dichlorophenol	0.19392	0.20001	0.20001	0.001	3.14413	20.00000	Averaged ccc
27 Benzoic acid	41.70664	40.00000	0.13587	0.000	4.26660	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.23349	0.22978	0.22978	0.000	-1.58803	60.00000	Averaged
30 Naphthalene	0.79443	0.78186	0.78186	0.000	-1.58326	60.00000	Averaged
204 alpha-Terpineol	0.18531	0.17646	0.17646	0.000	-4.77870	60.00000	Averaged
31 4-Chloroaniline	0.36606	0.34698	0.34698	0.000	-5.21193	60.00000	Averaged
32 Hexachlorobutadiene	0.13374	0.13822	0.13822	0.001	3.35312	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.18826	0.19321	0.19321	0.001	2.62402	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.48750	0.51011	0.51011	0.000	4.63863	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 25-FEB-2010 16:10
Lab File ID: s4b2463.d Init. Cal. Date(s): 25-FEB-2010 25-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:48
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD4.i/s022410a.b/MSD4-M8270C-AQA-022410A.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.48024	0.48016	0.48016	0.000	-0.01643	60.00000	Averaged
36 Hexachlorocyclopentadiene	31.93317	40.00000	0.13273	0.050	-20.16707	60.00000	Linear spcc
205 2,3-Dichloroaniline	0.52762	0.51905	0.51905	0.000	-1.62287	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.28364	0.28627	0.28627	0.001	0.93002	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	39.17791	40.00000	0.31586	0.000	-2.05523	60.00000	Linear
40 2-Chloronaphthalene	0.90393	0.92445	0.92445	0.000	2.27051	60.00000	Averaged
42 o-Nitroaniline	0.25504	0.25285	0.25285	0.000	-0.86028	60.00000	Averaged
41 m-Nitroaniline	0.20279	0.19002	0.19002	0.000	-6.29650	60.00000	Averaged
43 Dimethylphthalate	1.02848	1.00553	1.00553	0.000	-2.23127	60.00000	Averaged
44 2,6-Dinitrotoluene	0.23587	0.23176	0.23176	0.000	-1.74188	60.00000	Averaged
50 2,4-Dinitrotoluene	0.28204	0.27625	0.27625	0.000	-2.05125	60.00000	Averaged
45 Acenaphthylene	1.39830	1.46900	1.46900	0.000	5.05606	60.00000	Averaged
47 Acenaphthene	0.93738	0.91337	0.91337	0.001	-2.56124	20.00000	Averaged ccc
48 2,4-Dinitrophenol	36.06526	40.00000	0.07283	0.050	-9.83686	60.00000	Linear spcc
49 Dibenzofuran	1.23164	1.25235	1.25235	0.000	1.68188	60.00000	Averaged
51 Diethylphthalate	1.00062	0.97787	0.97787	0.000	-2.27397	60.00000	Averaged
52 4-Nitrophenol	36.50969	40.00000	0.12367	0.050	-8.72577	60.00000	Linear spcc
53 Fluorene	1.03877	1.03501	1.03501	0.000	-0.36220	60.00000	Averaged
54 4-Chlorophenylphenylether	0.49885	0.48674	0.48674	0.000	-2.42766	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	44.41663	40.00000	0.10185	0.000	11.04157	60.00000	Linear
56 p-Nitroaniline	0.19925	0.20157	0.20157	0.000	1.16392	60.00000	Averaged
133 Diphenylamine	0.51827	0.51762	0.51762	0.001	-0.12512	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.65589	0.66556	0.66556	0.000	1.47452	60.00000	Averaged
61 4-Bromophenylphenylether	0.17588	0.17017	0.17017	0.000	-3.24222	60.00000	Averaged
63 Hexachlorobenzene	0.18608	0.18452	0.18452	0.000	-0.84069	60.00000	Averaged
65 Pentachlorophenol	38.04076	40.00000	0.07055	0.001	-4.89811	20.00000	Linear ccc
206 n-Octadecane	0.34717	0.36754	0.36754	0.000	5.86659	60.00000	Averaged
68 Phenanthrene	0.88809	0.85502	0.85502	0.000	-3.72364	60.00000	Averaged
69 Anthracene	0.85480	0.86848	0.86848	0.000	1.60067	60.00000	Averaged
72 Di-n-butylphthalate	0.93363	0.94227	0.94227	0.000	0.92485	60.00000	Averaged
76 Fluoranthene	0.79395	0.80982	0.80982	0.001	1.99826	20.00000	Averaged ccc
79 Pyrene	1.07185	1.06512	1.06512	0.000	-0.62806	60.00000	Averaged
85 Butylbenzylphthalate	0.48250	0.50843	0.50843	0.000	5.37446	60.00000	Averaged
89 Benzo(a)anthracene	0.91853	0.86925	0.86925	0.000	-5.36491	60.00000	Averaged
92 Chrysene	0.87098	0.83304	0.83304	0.000	-4.35602	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.68918	0.69848	0.69848	0.000	1.34951	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 25-FEB-2010 16:10
Lab File ID: s4b2463.d Init. Cal. Date(s): 25-FEB-2010 25-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:48
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD4.i/s022410a.b/MSD4-M8270C-AQA-022410A.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	41.93765	40.00000	1.71412	0.001	4.84411	20.00000	Linear ccc
95 Benzo(b)fluoranthene	1.01729	0.99215	0.99215	0.000	-2.47154	60.00000	Averaged
96 Benzo(k)fluoranthene	1.05818	1.14472	1.14472	0.000	8.17831	60.00000	Averaged
97 Benzo(a)pyrene	0.80844	0.81387	0.81387	0.001	0.67153	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.66515	0.61582	0.61582	0.000	-7.41608	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.55316	0.51516	0.51516	0.000	-6.86985	60.00000	Averaged
101 Benzo(ghi)perylene	0.53657	0.48099	0.48099	0.000	-10.35915	60.00000	Averaged
126 m-Dinitrobenzene	0.16672	0.16622	0.16622	0.000	-0.29961	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	34.00211	40.00000	0.21276	0.000	-14.99472	60.00000	Linear
143 Dinoseb	36.00041	40.00000	0.10880	0.000	-9.99897	60.00000	Linear
173 Carbazole	0.64158	0.67535	0.67535	0.000	5.26282	60.00000	Averaged
184 p-Benzoquinone	0.07707	0.07963	0.07963	0.000	3.31936	60.00000	Averaged
192 Methoxychlor	0.43342	0.36279	0.36279	0.000	-16.29710	60.00000	Averaged
211 p-Toluidine	1.17045	0.98161	0.98161	0.000	-16.13460	60.00000	Averaged
210 m-Toluidine	1.42044	1.31477	1.31477	0.000	-7.43946	60.00000	Averaged
215 2-Ethoxyethanol	0.49989	0.54609	0.54609	0.000	9.24294	60.00000	Averaged
179 Dibenzo(a,e)pyrene	0.20695	0.15345	0.15345	0.000	-25.85147	60.00000	Averaged
26 Phthalic anhydride	44.34548	40.00000	0.08932	0.000	10.86371	60.00000	Linear
214 1,4-Dinitrobenzene	0.20045	0.20345	0.20345	0.000	1.49616	60.00000	Averaged
216 Methylenebis(2-chloroanilin	39.49539	40.00000	0.10235	0.000	-1.26153	60.00000	Linear
IM 222 Trichlorophenols	0.29651	0.30107	0.30107	0.000	1.53480	60.00000	Averaged
IM 223 Tetrachlorophenols	34.00211	40.00000	0.21276	0.000	-14.99472	60.00000	Linear
IM 224 Benzo(b,k)fluoranthene	1.03773	1.06843	1.06843	0.000	2.95829	60.00000	Averaged

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Data file : /chem/MSD4.i/s022410a.b/s4b2463.d
 Lab Smp Id: WBN100215-09.1 Client Smp ID: MEGAICV
 Inj Date : 25-FEB-2010 16:10
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |WBN100215-09.1|ICV|1|SVMF|1|MEGAICV
 Misc Info : |MSD8270|WBN100217-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022410a.b/MSD4-M8270C-AQA-022410A.m
 Meth Date : 26-Feb-2010 15:07 jos00786 Quant Type: ISTD
 Cal Date : 25-FEB-2010 15:48 Cal File: s4b2462.d
 Als bottle: 18 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: MEGA.sub
 Target Version: 3.50
 Processing Host: kilroy

Compounds	QUANT SIG			RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS							CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152			3.930	3.930	(1.000)	156243	40.0000	
* 29 Naphthalene-d8	136			4.796	4.796	(1.000)	620641	40.0000	
* 46 Acenaphthene-d10	164			6.048	6.048	(1.000)	305523	40.0000	
* 67 Phenanthrene-d10	188			7.037	7.037	(1.000)	482316	40.0000	
* 91 Chrysene-d12	240			8.749	8.749	(1.000)	383803	40.0000	
* 98 Perylene-d12	264			10.289	10.289	(1.000)	236560	40.0000	
\$ 3 2-Fluorophenol	112			3.117	3.117	(0.793)	150708	40.0000	41.5
\$ 5 Phenol-d5	99			3.641	3.641	(0.926)	181962	40.0000	40.1
\$ 20 Nitrobenzene-d5	82			4.294	4.294	(0.895)	186913	40.0000	42.2
\$ 39 2-Fluorobiphenyl	172			5.540	5.540	(0.916)	347452	40.0000	42.3
\$ 60 2,4,6-Tribromophenol	329			6.588	6.588	(1.089)	37628	40.0000	41.9
\$ 81 p-Terphenyl-d14	244			7.968	7.968	(0.911)	280688	40.0000	45.8
1 N-Methyl-N-nitrosomethylamine	74			2.438	2.438	(0.620)	99497	40.0000	39.2
2 Pyridine	79			2.475	2.475	(0.630)	148716	40.0000	42.6
4 Aniline	66			3.716	3.716	(0.946)	74612	40.0000	37.7
6 Phenol	94			3.652	3.652	(0.929)	191549	40.0000	40.8
7 bis(2-Chloroethyl) ether	63			3.732	3.732	(0.950)	117783	40.0000	37.5
8 2-Chlorophenol	128			3.796	3.796	(0.966)	171743	40.0000	42.6
203 n-Decane	43			3.769	3.769	(0.959)	170266	40.0000	43.3
9 1,3-Dichlorobenzene	146			3.898	3.898	(0.992)	188213	40.0000	41.4
11 1,4-Dichlorobenzene	146			3.941	3.941	(1.003)	196539	40.0000	40.6
13 1,2-Dichlorobenzene	146			4.042	4.042	(1.029)	186004	40.0000	42.8
14 bis(2-Chloroisopropyl) ether	45			4.069	4.069	(1.035)	210715	40.0000	39.6
12 Benzyl alcohol	108			3.999	3.999	(1.018)	87948	40.0000	39.7
15 o-Cresol	107			4.048	4.048	(1.030)	134527	40.0000	41.5
18 m,p-Cresols	107			4.149	4.149	(1.056)	160287	40.0000	41.2

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
17 N-Nitrosodipropylamine	70	4.171	4.171	(1.061)	121129	40.0000	40.1
19 Hexachloroethane	117	4.272	4.272	(1.087)	72049	40.0000	40.1
21 Nitrobenzene	77	4.310	4.310	(0.899)	169222	40.0000	40.2
22 Isophorone	82	4.465	4.465	(0.931)	300308	40.0000	38.8
23 2-Nitrophenol	139	4.524	4.524	(0.943)	89491	40.0000	42.5
24 2,4-Dimethylphenol	122	4.513	4.513	(0.941)	139059	40.0000	39.7
25 bis(2-Chloroethoxy)methane	93	4.582	4.582	(0.955)	173715	40.0000	37.8
26 2,4-Dichlorophenol	162	4.689	4.689	(0.978)	124136	40.0000	41.2
27 Benzoic acid	105	4.577	4.577	(0.954)	84328	40.0000	41.7
28 1,2,4-Trichlorobenzene	180	4.748	4.748	(0.990)	142610	40.0000	39.4
30 Naphthalene	128	4.812	4.812	(1.003)	485252	40.0000	39.4
204 alpha-Terpineol	59	4.791	4.791	(0.999)	109516	40.0000	38.1
31 4-Chloroaniline	127	4.828	4.828	(1.007)	215352	40.0000	37.9
32 Hexachlorobutadiene	225	4.877	4.877	(1.017)	85785	40.0000	41.3
33 4-Chloro-3-methylphenol	107	5.144	5.144	(1.072)	119911	40.0000	41.0
34 2-Methylnaphthalene	142	5.294	5.294	(1.104)	316597	40.0000	41.8
35 1-Methylnaphthalene	142	5.369	5.369	(1.119)	298007	40.0000	40.0
36 Hexachlorocyclopentadiene	237	5.395	5.395	(0.892)	40552	40.0000	31.9
205 2,3-Dichloroaniline	161	5.492	5.492	(0.908)	158583	40.0000	39.4
37 2,4,6-Trichlorophenol	196	5.481	5.481	(0.906)	87463	40.0000	40.4
38 2,4,5-Trichlorophenol	196	5.513	5.513	(0.912)	96502	40.0000	39.2
40 2-Chloronaphthalene	162	5.652	5.652	(0.935)	282441	40.0000	40.9
42 o-Nitroaniline	65	5.711	5.711	(0.944)	77250	40.0000	39.6
41 m-Nitroaniline	138	6.005	6.005	(0.993)	58055	40.0000	37.5
43 Dimethylphthalate	163	5.818	5.818	(0.962)	307212	40.0000	39.1
44 2,6-Dinitrotoluene	165	5.871	5.871	(0.971)	70808	40.0000	39.3
50 2,4-Dinitrotoluene	165	6.160	6.160	(1.019)	84402	40.0000	39.2
45 Acenaphthylene	152	5.957	5.957	(0.985)	448812	40.0000	42.0
47 Acenaphthene	154	6.075	6.075	(1.004)	279055	40.0000	39.0
48 2,4-Dinitrophenol	184	6.075	6.075	(1.004)	22252	40.0000	36.1
49 Dibenzofuran	168	6.192	6.192	(1.024)	382622	40.0000	40.7
51 Diethylphthalate	149	6.299	6.299	(1.042)	298762	40.0000	39.1
52 4-Nitrophenol	139	6.091	6.091	(1.007)	37785	40.0000	36.5
53 Fluorene	166	6.422	6.422	(1.062)	316219	40.0000	39.8
54 4-Chlorophenylphenylether	204	6.401	6.401	(1.058)	148711	40.0000	39.0
55 2-Methyl-4,6-dinitrophenol	198	6.438	6.438	(0.915)	49122	40.0000	44.4
56 p-Nitroaniline	138	6.428	6.428	(1.063)	61585	40.0000	40.5
133 Diphenylamine	169	6.481	6.481	(0.921)	249655	40.0000	39.9
58 1,2-Diphenylhydrazine	77	6.513	6.513	(0.926)	321009	40.0000	40.6
61 4-Bromophenylphenylether	248	6.727	6.727	(0.956)	82078	40.0000	38.7
63 Hexachlorobenzene	284	6.786	6.786	(0.964)	88995	40.0000	39.7
65 Pentachlorophenol	266	6.904	6.904	(0.981)	34027	40.0000	38.0
206 n-Octadecane	57	6.882	6.882	(0.978)	177271	40.0000	42.3
68 Phenanthrene	178	7.054	7.054	(1.002)	412390	40.0000	38.5
69 Anthracene	178	7.086	7.086	(1.007)	418881	40.0000	40.6
72 Di-n-butylphthalate	149	7.326	7.326	(1.041)	454470	40.0000	40.4
76 Fluoranthene	202	7.776	7.776	(1.105)	390587	40.0000	40.8

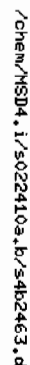
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	7.915	7.915	(0.905)	408795	40.0000	39.7
85 Butylbenzylphthalate	149	8.241	8.241	(0.942)	195138	40.0000	42.1
89 Benzo(a)anthracene	228	8.738	8.738	(0.999)	333621	40.0000	37.8
92 Chrysene	228	8.770	8.770	(1.002)	319723	40.0000	38.2
93 bis(2-Ethylhexyl)phthalate	149	8.610	8.610	(0.984)	268078	40.0000	40.5
94 Di-n-octylphthalate	149	9.177	9.177	(0.892)	405492	40.0000	41.9
95 Benzo(b)fluoranthene	252	9.797	9.797	(0.952)	234702	40.0000	39.0
96 Benzo(k)fluoranthene	252	9.829	9.829	(0.955)	270794	40.0000	43.3
97 Benzo(a)pyrene	252	10.220	10.220	(0.993)	192528	40.0000	40.3
99 Indeno(1,2,3-cd)pyrene	276	12.022	12.022	(1.168)	145679	40.0000	37.0
100 Dibenzo(a,h)anthracene	278	12.028	12.028	(1.169)	121867	40.0000	37.2
101 Benzo(ghi)perylene	276	12.557	12.557	(1.220)	113782	40.0000	35.8
126 m-Dinitrobenzene	168	5.861	5.861	(0.969)	50785	40.0000	39.9
130 2,3,4,6-Tetrachlorophenol	232	6.262	6.262	(1.035)	65003	40.0000	34.0
143 Dinoseb	211	6.995	6.995	(0.994)	52474	40.0000	36.0
173 Carbazole	167	7.171	7.171	(1.019)	325731	40.0000	42.1
184 p-Benzoquinone	54	3.422	3.422	(0.871)	12442	40.0000	41.3
192 Methoxychlor	227	8.599	8.599	(0.983)	139238	40.0000	33.5
211 p-Toluidine	106	4.208	4.208	(1.071)	153369	40.0000	33.5
210 m-Toluidine	106	4.229	4.229	(1.076)	205423	40.0000	37.0
215 2-Ethoxyethanol	59	2.288	2.288	(0.582)	85323	40.0000	43.7
179 Dibenzo(a,e)pyrene	302	16.708	16.708	(1.624)	36301	40.0000	29.6
26 Phthalic anhydride	104	5.337	5.337	(1.113)	55435	40.0000	44.3
214 1,4-Dinitrobenzene	75	5.802	5.802	(0.959)	62159	40.0000	40.6
216 Methylenebis(2-chloroaniline)	231	8.663	8.663	(0.990)	39281	40.0000	39.5
M 222 Trichlorophenols	196				183965	80.0000	81.2
M 223 Tetrachlorophenols	232				65003	40.0000	34.0
M 224 Benzo(b,k)fluoranthene	252				505496	80.0000	82.4

Page 1

Client ID: MEGACITY

Instrument: MSD4.i

Operator† JMB3
Column diameter† 0.20



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 25-FEB-2010 17:05
Lab File ID: s4b2465.d Init. Cal. Date(s): 25-FEB-2010 25-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:48
Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
Method: /chem/MSD4.i/s022410a.b/MSD4-M8270C-AQA-022410A.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.80177	0.61467	0.61467	0.000	-23.33598	60.00000	Averaged
16 Acetophenone	1.16943	1.04927	1.04927	0.000	-10.27508	60.00000	Averaged
189 Caprolactam	0.08524	0.08452	0.08452	0.000	-0.84614	60.00000	Averaged
208 1,1'-Biphenyl	1.19408	1.15704	1.15704	0.000	-3.10203	60.00000	Averaged
207 Atrazine	0.03767	0.03637	0.03637	0.000	-3.43442	60.00000	Averaged
77 Benzidine	0.28259	0.25792	0.25792	0.000	-8.72883	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.24789	0.25554	0.25554	0.000	3.08359	60.00000	Averaged
102 1,4-Dioxane	0.36128	0.40932	0.40932	0.000	13.29941	60.00000	Averaged
103 Methyl methacrylate	0.19684	0.22570	0.22570	0.000	14.66305	60.00000	Averaged
104 Ethyl methacrylate	0.81257	0.90993	0.90993	0.000	11.98171	60.00000	Averaged
105 2-Picoline	1.17340	1.10836	1.10836	0.000	-5.54270	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.46493	0.45052	0.45052	0.000	-3.10008	60.00000	Averaged
107 Methyl methanesulfonate	0.44515	0.45456	0.45456	0.000	2.11266	60.00000	Averaged
108 N-Nitrosodiethylamine	0.50195	0.48442	0.48442	0.000	-3.49239	60.00000	Averaged
109 Ethyl Methanesulfonate	0.59658	0.67270	0.67270	0.000	12.75925	60.00000	Averaged
110 Pentachloroethane	0.31042	0.39245	0.39245	0.000	26.42626	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.51683	0.48313	0.48313	0.000	-6.52037	60.00000	Averaged
113 N-Nitrosomorpholine	0.53142	0.52702	0.52702	0.000	-0.82825	60.00000	Averaged
114 o-Toluidine	1.74083	1.67666	1.67666	0.000	-3.68627	60.00000	Averaged
115 N-Nitrosopiperidine	0.13918	0.13492	0.13492	0.000	-3.06251	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.62951	0.61819	0.61819	0.000	-1.79928	60.00000	Averaged
118 2,6-Dichlorophenol	0.20803	0.20140	0.20140	0.000	-3.18568	60.00000	Averaged
119 Hexachloropropene	0.10393	0.15053	0.15053	0.000	44.84134	60.00000	Averaged
120 p-Phenylenediamine	0.20766	0.22341	0.22341	0.000	7.58405	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.19550	0.19493	0.19493	0.000	-0.29590	60.00000	Averaged
122 Safrole	0.19518	0.21317	0.21317	0.000	9.21697	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.42863	0.43414	0.43414	0.000	1.28600	60.00000	Averaged
124 Isosafrole	0.33382	0.41717	0.41717	0.000	24.96627	60.00000	Averaged
125 1,4-Naphthoquinone	0.28008	0.27025	0.27025	0.000	-3.51168	60.00000	Averaged
127 Pentachlorobenzene	0.37325	0.36337	0.36337	0.000	-2.64646	60.00000	Averaged
128 1-Naphthylamine	0.82637	0.86465	0.86465	0.000	4.63204	60.00000	Averaged
129 2-Naphthylamine	0.89188	0.95183	0.95183	0.000	6.72229	60.00000	Averaged
131 5-Nitro-o-toluidine	0.24491	0.23863	0.23863	0.000	-2.56441	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.10607	0.11976	0.11976	0.000	12.91213	60.00000	Averaged
137 Phenacetin	0.26317	0.24642	0.24642	0.000	-6.36471	60.00000	Averaged
138 Diallate	0.25253	0.22899	0.22899	0.000	-9.32039	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 25-FEB-2010 17:05
Lab File ID: s4b2465.d Init. Cal. Date(s): 25-FEB-2010 25-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:48
Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
Method: /chem/MSD4.i/s022410a.b/MSD4-M8270C-AQA-022410A.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.23480	0.28192	0.28192	0.000	20.07008	60.00000	Averaged
213 Trans Diallate	0.29710	0.26941	0.26941	0.000	-9.32039	60.00000	Averaged
140 4-Aminobiphenyl	0.54065	0.59863	0.59863	0.000	10.72389	60.00000	Averaged
141 Pentachloronitrobenzene	0.07148	0.07282	0.07282	0.000	1.87316	60.00000	Averaged
142 Pronamide	0.26013	0.27611	0.27611	0.000	6.14314	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.00804	0.00782	0.00782	0.000	-2.77340	60.00000	Averaged
147 Methapyrilene	0.27513	0.30441	0.30441	0.000	10.64367	60.00000	Averaged
148 Isodrin	0.09291	0.07942	0.07942	0.000	-14.52216	60.00000	Averaged
149 Aramite	0.03898	0.03499	0.03499	0.000	-10.24257	60.00000	Averaged
150 Kepone	0.06812	0.05931	0.05931	0.000	-12.93214	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.30964	0.29261	0.29261	0.000	-5.50229	60.00000	Averaged
152 Chlorobenzilate	0.31975	0.28789	0.28789	0.000	-9.96444	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.47666	0.44279	0.44279	0.000	-7.10523	60.00000	Averaged
155 2-Acetylaminofluorene	0.24440	0.25314	0.25314	0.000	3.57384	60.00000	Averaged
157 7,12Dimethylbenz(a)anthrace	0.57533	0.51276	0.51276	0.000	-10.87673	60.00000	Averaged
158 3-Methylcholanthrene	0.37094	0.38010	0.38010	0.000	2.46748	60.00000	Averaged

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Data file : /chem/MSD4.i/s022410a.b/s4b2465.d
Lab Smp Id: WBN100218-08.1 Client Smp ID: APICV
Inj Date : 25-FEB-2010 17:05
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100218-08.1|ICV|1|SVMF|1|APICV
Misc Info : |MSD8270|WBN100217-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022410a.b/MSD4-M8270C-AQA-022410A.m
Meth Date : 26-Feb-2010 15:08 jos00786 Quant Type: ISTD
Cal Date : 25-FEB-2010 15:48 Cal File: s4b2462.d
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.930	(1.000)	158215	40.0000	
* 29 Naphthalene-d8	136	4.797	4.797	(1.000)	560309	40.0000	
* 46 Acenaphthene-d10	164	6.048	6.048	(1.000)	320533	40.0000	
* 67 Phenanthrene-d10	188	7.043	7.043	(1.000)	504915	40.0000	
* 91 Chrysene-d12	240	8.755	8.755	(1.000)	383205	40.0000	
* 98 Perylene-d12	264	10.306	10.306	(1.000)	254833	40.0000	
209 Benzaldehyde	77	3.657	3.657	(0.931)	97250	40.0000	30.7
16 Acetophenone	105	4.182	4.182	(1.064)	166010	40.0000	35.9
189 Caprolactam	113	5.075	5.075	(1.058)	47356	40.0000	39.7
208 1,1'-Biphenyl	154	5.620	5.620	(0.929)	370870	40.0000	38.8
207 Atrazine	173	6.808	6.808	(0.967)	18366	40.0000	38.6
77 Benzidine	184	7.835	7.835	(0.895)	98838	40.0000	36.5
90 3,3'-Dichlorobenzidine	252	8.685	8.685	(0.992)	97923	40.0000	41.2
102 1,4-Dioxane	88	2.293	2.293	(0.584)	64761	40.0000	45.3
103 Methyl methacrylate	100	2.283	2.283	(0.581)	35709	40.0000	45.9
104 Ethyl methacrylate	69	2.641	2.641	(0.672)	143965	40.0000	44.8
105 2-Picoline	93	2.834	2.834	(0.721)	175359	40.0000	37.8
106 N-Nitrosomethylethylamine	88	2.871	2.871	(0.731)	71279	40.0000	38.8
107 Methyl methanesulfonate	80	3.032	3.032	(0.771)	71918	40.0000	40.8
108 N-Nitrosodiethylamine	102	3.262	3.262	(0.830)	76643	40.0000	38.6
109 Ethyl Methanesulfonate	79	3.417	3.417	(0.869)	106431	40.0000	45.1
110 Pentachloroethane	167	3.754	3.754	(0.955)	62091	40.0000	50.6
111 N-Nitrosopyrrolidine	100	4.171	4.171	(1.061)	76439	40.0000	37.4
113 N-Nitrosomorpholine	56	4.192	4.192	(1.067)	83382	40.0000	39.7
114 o-Toluidine	106	4.208	4.208	(1.071)	265272	40.0000	38.5
115 N-Nitrosopiperidine	114	4.412	4.412	(0.920)	75598	40.0000	38.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	----	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.652	4.652	(0.970)	346375	40.0000	39.3
118 2,6-Dichlorophenol	162	4.839	4.839	(1.009)	112847	40.0000	38.7
119 Hexachloropropene	213	4.866	4.866	(1.014)	84343	40.0000	57.9
120 p-Phenylenediamine	108	5.080	5.080	(1.059)	125178	40.0000	43.0
121 N-Nitrosodi-n-butylamine	84	5.043	5.043	(1.051)	109219	40.0000	39.9
122 Safrole	162	5.208	5.208	(1.086)	119439	40.0000	43.7
123 1,2,4,5-Tetrachlorobenzene	216	5.412	5.412	(0.895)	139156	40.0000	40.5
124 Isosafrole	162	5.583	5.583	(0.923)	133716	40.0000	50.0
125 1,4-Naphthoquinone	158	5.770	5.770	(0.954)	86623	40.0000	38.6
127 Pentachlorobenzene	250	6.161	6.161	(1.019)	116472	40.0000	38.9
128 1-Naphthylamine	143	6.246	6.246	(1.033)	277148	40.0000	41.8
129 2-Naphthylamine	143	6.294	6.294	(1.041)	305093	40.0000	42.7
131 5-Nitro-o-toluidine	152	6.417	6.417	(1.061)	76490	40.0000	39.0
136 1,3,5-Trinitrobenzene	75	6.637	6.637	(0.942)	60469	40.0000	45.2
137 Phenacetin	108	6.669	6.669	(0.947)	124423	40.0000	37.4(Q)
138 Diallate	86	6.653	6.653	(0.945)	115623	40.0000	36.3
212 Cis Diallate	86	6.717	6.717	(0.954)	21352	6.00000	7.2
213 Trans Diallate	86	6.653	6.653	(0.945)	115623	34.0000	30.8
140 4-Aminobiphenyl	169	6.899	6.899	(0.979)	302258	40.0000	44.3
141 Pentachloronitrobenzene	237	6.915	6.915	(0.982)	36767	40.0000	40.7(Q)
142 Pronamide	173	6.904	6.904	(0.980)	139410	40.0000	42.4
146 4-Nitroquinoline-1-oxide	101	7.519	7.519	(1.068)	3949	40.0000	38.9
147 Methapyrilene	58	7.530	7.530	(1.069)	153701	40.0000	44.2
148 Isodrin	193	7.690	7.690	(1.092)	40098	40.0000	34.2
149 Aramite	185	7.926	7.926	(1.125)	17666	40.0000	35.9
150 Kepone	272	8.364	8.364	(1.188)	29948	40.0000	34.8
151 p-(Dimethylamino)azobenzene	120	8.054	8.054	(0.920)	112128	40.0000	37.8
152 Chlorobenzilate	251	8.070	8.070	(0.922)	110320	40.0000	36.0
153 3,3'-Dimethylbenzidine	212	8.273	8.273	(0.945)	169679	40.0000	37.2
155 2-Acetylaminofluorene	181	8.460	8.460	(0.966)	97004	40.0000	41.4
157 7,12Dimethylbenz(a)anthracene	256	9.776	9.776	(0.949)	130667	40.0000	35.6
158 3-Methylcholanthrene	268	10.685	10.685	(1.037)	96861	40.0000	41.0

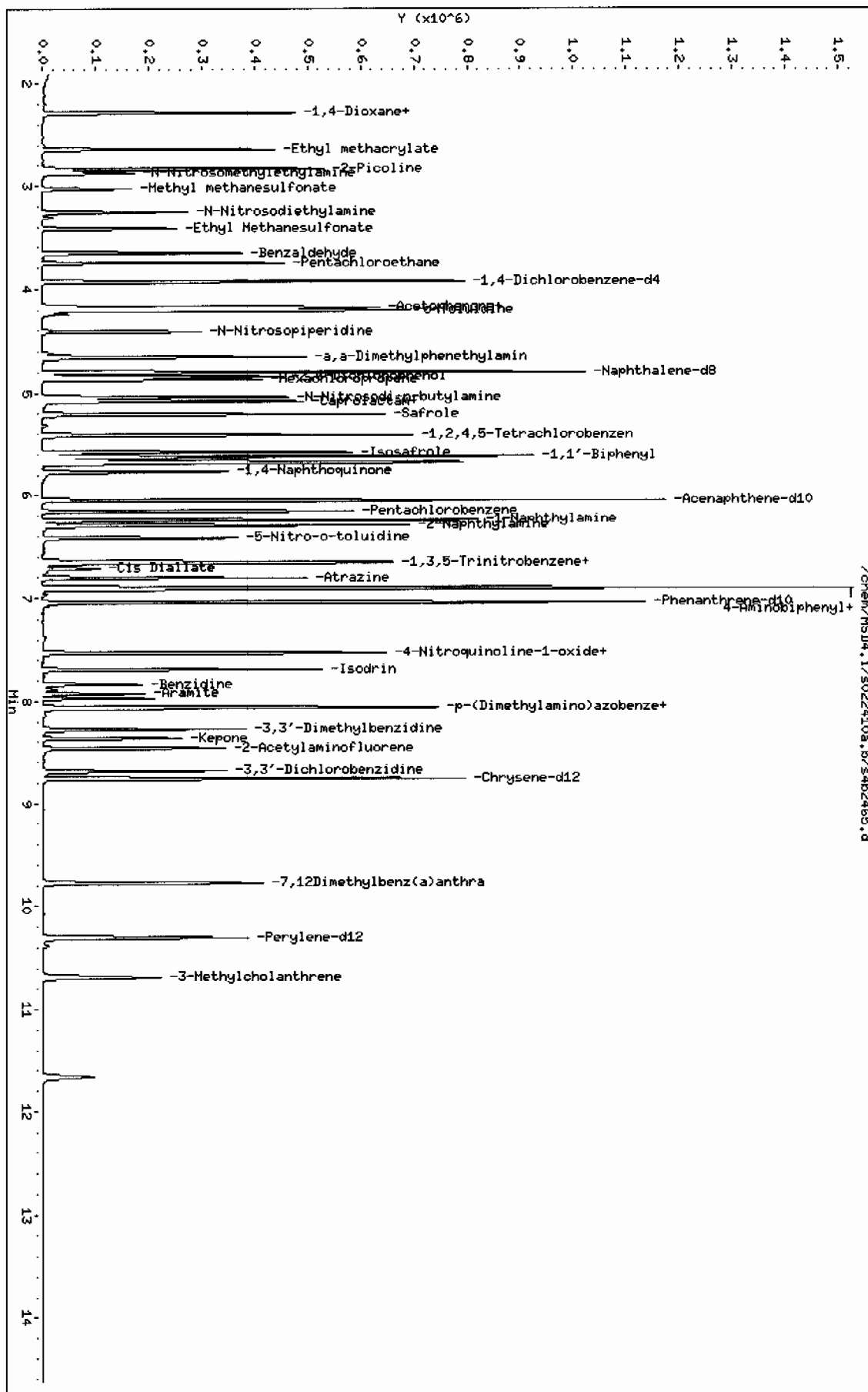
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD4.1/s022410a.b/s4b2465.d
 Date : 25-FEB-2010 17:05
 Client ID: APICV
 Sample Info: MBN100218-08.11ICV11.SVHF11.APICV
 Column phase: JMB DB-5MS

Instrument: MSD4.1
 Operator: JMB3
 Column diameter: 0.20

/chem/MSD4.1/s022410a.b/s4b2465.d



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 26-FEB-2010 15:33
Lab File ID: s7b2614.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100225-09.1 Quant Type: ISTD
Method: /chem/MSD7.i/s022610.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	1.03969	1.02471	1.02471	0.000	-1.44120	60.00000	Averaged
5 Phenol-d5	1.30355	1.24864	1.24864	0.000	-4.21259	60.00000	Averaged
20 Nitrobenzene-d5	0.30169	0.31799	0.31799	0.000	5.40220	60.00000	Averaged
39 2-Fluorobiphenyl	0.99687	1.05207	1.05207	0.000	5.53779	60.00000	Averaged
60 2,4,6-Tribromophenol	0.11563	0.11567	0.11567	0.000	0.03425	60.00000	Averaged
81 p-Terphenyl-d14	0.71661	0.79589	0.79589	0.000	11.06334	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.70001	0.65798	0.65798	0.000	-6.00450	60.00000	Averaged
2 Pyridine	0.96465	0.72626	0.72626	0.000	-24.71254	60.00000	Averaged
4 Aniline	0.62182	0.56215	0.56215	0.000	-9.59489	60.00000	Averaged
6 Phenol	1.29492	1.27998	1.27998	0.001	-1.15360	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	1.06026	0.99193	0.99193	0.000	-6.44459	60.00000	Averaged
8 2-Chlorophenol	0.99096	0.96977	0.96977	0.000	-2.13776	60.00000	Averaged
203 n-Decane	1.86209	1.65806	1.65806	0.000	-10.95712	60.00000	Averaged
9 1,3-Dichlorobenzene	1.24478	1.24430	1.24430	0.000	-0.03834	60.00000	Averaged
11 1,4-Dichlorobenzene	1.19442	1.15499	1.15499	0.001	-3.30123	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.09872	1.05382	1.05382	0.000	-4.08631	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	2.45618	2.41690	2.41690	0.000	-1.59921	60.00000	Averaged
12 Benzyl alcohol	0.67475	0.65730	0.65730	0.000	-2.58575	60.00000	Averaged
15 o-Cresol	0.79330	0.75691	0.75691	0.000	-4.58754	60.00000	Averaged
18 m,p-Cresols	1.07190	1.06639	1.06639	0.000	-0.51397	60.00000	Averaged
17 N-Nitrosodipropylamine	0.73664	0.73992	0.73992	0.050	0.44576	60.00000	Averaged spcc
19 Hexachloroethane	0.46378	0.45091	0.45091	0.000	-2.77548	60.00000	Averaged
21 Nitrobenzene	0.27987	0.28434	0.28434	0.000	1.60052	60.00000	Averaged
22 Isophorone	0.54073	0.52607	0.52607	0.000	-2.71011	60.00000	Averaged
23 2-Nitrophenol	0.13143	0.13812	0.13812	0.001	5.09665	20.00000	Averaged ccc
24 2,4-Dimethylphenol	43.02153	40.00000	0.25793	0.000	7.55381	60.00000	Wt linear
25 bis(2-Chloroethoxy)methane	0.29584	0.27846	0.27846	0.000	-5.87687	60.00000	Averaged
26 2,4-Dichlorophenol	0.21226	0.22457	0.22457	0.001	5.80057	20.00000	Averaged ccc
27 Benzoic acid	0.12083	0.13464	0.13464	0.000	11.43046	60.00000	Averaged
28 1,2,4-Trichlorobenzene	0.25742	0.26054	0.26054	0.000	1.21085	60.00000	Averaged
30 Naphthalene	0.75561	0.72974	0.72974	0.000	-3.42291	60.00000	Averaged
204 alpha-Terpeneol	0.30880	0.27565	0.27565	0.000	-10.73794	60.00000	Averaged
31 4-Chloroaniline	0.35383	0.33113	0.33113	0.000	-6.41578	60.00000	Averaged
32 Hexachlorobutadiene	0.13434	0.14044	0.14044	0.001	4.53770	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.22797	0.23911	0.23911	0.001	4.88549	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.54229	0.55783	0.55783	0.000	2.86468	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 26-FEB-2010 15:33
Lab File ID: s7b2614.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100225-09.1 Quant Type: ISTD
Method: /chem/MSD7.i/s022610.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.51558	0.51162	0.51162	0.000	-0.76796	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.19338	0.18004	0.18004	0.050	-6.89835	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.49462	0.48886	0.48886	0.000	-1.16475	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.28064	0.29372	0.29372	0.001	4.66295	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.28225	0.31248	0.31248	0.000	10.71318	60.00000	Averaged
40 2-Chloronaphthalene	0.92584	0.93034	0.93034	0.000	0.48600	60.00000	Averaged
42 o-Nitroaniline	0.32778	0.32450	0.32450	0.000	-1.00006	60.00000	Averaged
41 m-Nitroaniline	0.23922	0.23795	0.23795	0.000	-0.52859	60.00000	Averaged
43 Dimethylphthalate	1.06293	1.06181	1.06181	0.000	-0.10595	60.00000	Averaged
44 2,6-Dinitrotoluene	0.24549	0.24572	0.24572	0.000	0.09588	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32362	0.32061	0.32061	0.000	-0.93059	60.00000	Averaged
45 Acenaphthylene	1.47998	1.47925	1.47925	0.000	-0.04942	60.00000	Averaged
47 Acenaphthene	0.88041	0.84456	0.84456	0.001	-4.07267	20.00000	Averaged ccc
48 2,4-Dinitrophenol	40.39092	40.00000	0.06885	0.050	0.97730	60.00000	Linear spcc
49 Dibenzofuran	1.23737	1.25843	1.25843	0.000	1.70156	60.00000	Averaged
51 Diethylphthalate	1.08801	1.08709	1.08709	0.000	-0.08413	60.00000	Averaged
52 4-Nitrophenol	0.16277	0.17018	0.17018	0.050	4.55207	60.00000	Averaged spcc
53 Fluorene	1.03823	0.98765	0.98765	0.000	-4.87233	60.00000	Averaged
54 4-Chlorophenylphenylether	0.51596	0.50557	0.50557	0.000	-2.01472	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	49.60025	40.00000	0.09008	0.000	24.00062	60.00000	Linear
56 p-Nitroaniline	0.21538	0.21035	0.21035	0.000	-2.33542	60.00000	Averaged
133 Diphenylamine	0.47134	0.46815	0.46815	0.001	-0.67705	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.59299	0.59852	0.59852	0.000	0.93248	60.00000	Averaged
61 4-Bromophenylphenylether	0.16450	0.15861	0.15861	0.000	-3.58149	60.00000	Averaged
63 Hexachlorobenzene	0.15982	0.15792	0.15792	0.000	-1.18714	60.00000	Averaged
65 Pentachlorophenol	0.07563	0.08477	0.08477	0.001	12.08882	20.00000	Averaged ccc
206 n-Octadecane	0.50130	0.54494	0.54494	0.000	8.70577	60.00000	Averaged
68 Phenanthrene	0.82082	0.79129	0.79129	0.000	-3.59795	60.00000	Averaged
69 Anthracene	0.83131	0.80745	0.80745	0.000	-2.86980	60.00000	Averaged
72 Di-n-butylphthalate	1.04581	1.05484	1.05484	0.000	0.86325	60.00000	Averaged
76 Fluoranthene	0.89248	0.89895	0.89895	0.001	0.72511	20.00000	Averaged ccc
79 Pyrene	1.26367	1.20352	1.20352	0.000	-4.76014	60.00000	Averaged
85 Butylbenzylphthalate	0.60092	0.60984	0.60984	0.000	1.48432	60.00000	Averaged
89 Benzo(a)anthracene	0.95891	0.88471	0.88471	0.000	-7.73823	60.00000	Averaged
92 Chrysene	0.85329	0.81713	0.81713	0.000	-4.23770	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.76109	0.74913	0.74913	0.000	-1.57123	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 26-FEB-2010 15:33
Lab File ID: s7b2614.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100225-09.1 Quant Type: ISTD
Method: /chem/MSD7.i/s022610.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.60621	1.58412	1.58412	0.001	-1.37539	20.00000	Averaged ccc
95 Benzo(b)fluoranthene	1.12177	1.06463	1.06463	0.000	-5.09364	60.00000	Averaged
96 Benzo(k)fluoranthene	1.05423	1.04564	1.04564	0.000	-0.81471	60.00000	Averaged
97 Benzo(a)pyrene	0.91981	0.90053	0.90053	0.001	-2.09622	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.66143	0.60388	0.60388	0.000	-8.69961	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.52416	0.47011	0.47011	0.000	-10.31204	60.00000	Averaged
101 Benzo(ghi)perylene	0.55161	0.49780	0.49780	0.000	-9.75514	60.00000	Averaged
126 m-Dinitrobenzene	0.16950	0.17152	0.17152	0.000	1.19636	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.23333	0.23665	0.23665	0.000	1.42249	60.00000	Averaged
143 Dinoseb	41.77834	40.00000	0.11249	0.000	4.44585	60.00000	Linear
173 Carbazole	0.68135	0.69533	0.69533	0.000	2.05237	60.00000	Averaged
184 p-Benzquinone	0.26551	0.19230	0.19230	0.000	-27.57330	60.00000	Averaged
192 Methoxychlor	0.58935	0.62587	0.62587	0.000	6.19688	60.00000	Averaged
211 p-Toluidine	1.10616	0.97036	0.97036	0.000	-12.27617	60.00000	Averaged
210 m-Toluidine	1.37475	1.21251	1.21251	0.000	-11.80169	60.00000	Averaged
215 2-Ethoxyethanol	0.93140	0.93581	0.93581	0.000	0.47324	60.00000	Averaged
26 Phthalic anhydride	51.56333	40.00000	0.13454	0.000	28.90832	60.00000	Linear
214 1,4-Dinitrobenzene	0.19422	0.19244	0.19244	0.000	-0.91506	60.00000	Averaged
216 Methylenebis(2-chloroanilin	0.13367	0.13777	0.13777	0.000	3.06814	60.00000	Averaged
M 222 Trichlorophenols	0.28144	0.30310	0.30310	0.000	7.69664	60.00000	Averaged
M 223 Tetrachlorophenols	0.23333	0.23665	0.23665	0.000	1.42249	60.00000	Averaged
M 224 Benzo(b,k)fluoranthene	1.08800	1.05514	1.05514	0.000	-3.02057	60.00000	Averaged

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Data file : /chem/MSD7.i/s022610.b/s7b2614.d
Lab Smp Id: WBN100225-09.1 Client Smp ID: MEGAICV
Inj Date : 26-FEB-2010 15:33
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN100225-09.1|ICV|1|SVMF|1|MEGAICV
Misc Info : |MSD8270|WBN100217-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s022610.b/MSD7-M8270C-AQA-022610.m
Meth Date : 27-Feb-2010 08:41 jos00786 Quant Type: ISTD
Cal Date : 26-FEB-2010 15:08 Cal File: s7b2613.d
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50

						AMOUNTS		
		QUANT SIG				CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng/ul)	(ng/ul)
=====		=====	==	=====	=====	=====	=====	=====
* 10	1,4-Dichlorobenzene-d4	152	3.951	3.947	(1.000)	398783	40.0000	
* 29	Naphthalene-d8	136	4.818	4.818	(1.000)	1519686	40.0000	
* 46	Acenaphthene-d10	164	6.075	6.070	(1.000)	819814	40.0000	
* 67	Phenanthrene-d10	188	7.250	7.245	(1.000)	1483884	40.0000	
* 91	Chrysene-d12	240	9.658	9.653	(1.000)	1119677	40.0000	
* 98	Perylene-d12	264	11.338	11.333	(1.000)	753913	40.0000	
\$ 3	2-Fluorophenol	112	3.133	3.133	(0.793)	408636	40.0000	39.4
\$ 5	Phenol-d5	99	3.663	3.658	(0.927)	497935	40.0000	38.3
\$ 20	Nitrobenzene-d5	82	4.313	4.312	(0.895)	483245	40.0000	42.2
\$ 39	2-Fluorobiphenyl	172	5.560	5.560	(0.915)	862503	40.0000	42.2
\$ 60	2,4,6-Tribromophenol	329	6.672	6.672	(1.098)	94831	40.0000	40.0
\$ 81	p-Terphenyl-d14	244	8.622	8.622	(0.893)	891139	40.0000	44.4
1	N-Methyl-N-nitrosomethylamine	74	2.444	2.444	(0.619)	262390	40.0000	37.6
2	Pyridine	79	2.473	2.478	(0.626)	289621	40.0000	30.1
4	Aniline	66	3.735	3.735	(0.945)	224177	40.0000	36.2
6	Phenol	94	3.672	3.667	(0.929)	510433	40.0000	39.5
7	bis(2-Chloroethyl) ether	63	3.749	3.749	(0.949)	395566	40.0000	37.4
8	2-Chlorophenol	128	3.817	3.812	(0.966)	386729	40.0000	39.1
203	n-Decane	43	3.802	3.802	(0.962)	661206	40.0000	35.6
9	1,3-Dichlorobenzene	146	3.918	3.918	(0.991)	496206	40.0000	40.0
11	1,4-Dichlorobenzene	146	3.966	3.961	(1.004)	460590	40.0000	38.7
13	1,2-Dichlorobenzene	146	4.067	4.067	(1.029)	420246	40.0000	38.4
14	bis(2-Chloroisopropyl) ether	45	4.096	4.096	(1.037)	963819	40.0000	39.4
12	Benzyl alcohol	108	4.014	4.014	(1.016)	262120	40.0000	39.0
15	o-Cresol	107	4.067	4.067	(1.029)	301843	40.0000	38.2
18	m,p-Cresols	107	4.168	4.168	(1.055)	425256	40.0000	39.8
17	N-Nitrosodipropylamine	70	4.192	4.192	(1.061)	295069	40.0000	40.2

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====
19 Hexachloroethane	117	4.298	4.298 (1.088)	179815	40.0000	38.9
21 Nitrobenzene	77	4.327	4.327 (0.898)	432114	40.0000	40.6
22 Isophorone	82	4.481	4.486 (0.930)	799464	40.0000	38.9
23 2-Nitrophenol	139	4.544	4.544 (0.943)	209904	40.0000	42.0
24 2,4-Dimethylphenol	122	4.534	4.534 (0.941)	391978	40.0000	43.0
25 bis(2-Chloroethoxy)methane	93	4.601	4.601 (0.955)	423168	40.0000	37.6
26 2,4-Dichlorophenol	162	4.703	4.703 (0.976)	341282	40.0000	42.3
27 Benzoic acid	105	4.592	4.592 (0.953)	204606	40.0000	44.6
28 1,2,4-Trichlorobenzene	180	4.770	4.770 (0.990)	395939	40.0000	40.5
30 Naphthalene	128	4.837	4.837 (1.004)	1108980	40.0000	38.6
204 alpha-Terpineol	59	4.809	4.808 (0.998)	418894	40.0000	35.7
31 4-Chloroaniline	127	4.847	4.847 (1.006)	503209	40.0000	37.4
32 Hexachlorobutadiene	225	4.900	4.900 (1.017)	213421	40.0000	41.8
33 4-Chloro-3-methylphenol	107	5.155	5.155 (1.070)	363372	40.0000	42.0
34 2-Methylnaphthalene	142	5.314	5.314 (1.103)	847725	40.0000	41.1
35 1-Methylnaphthalene	142	5.391	5.391 (1.119)	777496	40.0000	39.7
36 Hexachlorocyclopentadiene	237	5.420	5.420 (0.892)	147596	40.0000	37.2
205 2,3-Dichloroaniline	161	5.512	5.512 (0.907)	400773	40.0000	39.5
37 2,4,6-Trichlorophenol	196	5.502	5.502 (0.906)	240799	40.0000	41.9
38 2,4,5-Trichlorophenol	196	5.526	5.526 (0.910)	256177	40.0000	44.3
40 2-Chloronaphthalene	162	5.670	5.670 (0.933)	762704	40.0000	40.2
42 o-Nitroaniline	65	5.723	5.723 (0.942)	266029	40.0000	39.6
41 m-Nitroaniline	138	6.022	6.022 (0.991)	195077	40.0000	39.8
43 Dimethylphthalate	163	5.839	5.839 (0.961)	870483	40.0000	40.0
44 2,6-Dinitrotoluene	165	5.892	5.892 (0.970)	201445	40.0000	40.0
50 2,4-Dinitrotoluene	165	6.186	6.186 (1.018)	262842	40.0000	39.6
45 Acenaphthylene	152	5.974	5.974 (0.983)	1212713	40.0000	40.0
47 Acenaphthene	154	6.099	6.099 (1.004)	692379	40.0000	38.4
48 2,4-Dinitrophenol	184	6.089	6.089 (1.002)	56443	40.0000	40.4
49 Dibenzofuran	168	6.224	6.224 (1.025)	1031677	40.0000	40.7
51 Diethylphthalate	149	6.345	6.345 (1.044)	891212	40.0000	40.0
52 4-Nitrophenol	139	6.104	6.104 (1.005)	139513	40.0000	41.8
53 Fluorene	166	6.489	6.489 (1.068)	809688	40.0000	38.0
54 4-Chlorophenylphenylether	204	6.460	6.460 (1.063)	414472	40.0000	39.2
55 2-Methyl-4,6-dinitrophenol	198	6.499	6.499 (0.896)	133661	40.0000	49.6
56 p-Nitroaniline	138	6.479	6.484 (1.067)	172445	40.0000	39.1
133 Diphenylamine	169	6.552	6.552 (0.904)	694684	40.0000	39.7
58 1,2-Diphenylhydrazine	77	6.590	6.585 (0.909)	888138	40.0000	40.4
61 4-Bromophenylphenylether	248	6.850	6.850 (0.945)	235353	40.0000	38.6
63 Hexachlorobenzene	284	6.922	6.922 (0.955)	234334	40.0000	39.5
65 Pentachlorophenol	266	7.072	7.067 (0.975)	125785	40.0000	44.8
206 n-Octadecane	57	7.062	7.062 (0.974)	808626	40.0000	43.5
68 Phenanthrene	178	7.269	7.269 (1.003)	1174179	40.0000	38.6
69 Anthracene	178	7.313	7.312 (1.009)	1198165	40.0000	38.8
72 Di-n-butylphthalate	149	7.669	7.669 (1.058)	1565255	40.0000	40.3
76 Fluoranthene	202	8.309	8.309 (1.146)	1333938	40.0000	40.3
79 Pyrene	202	8.526	8.526 (0.883)	1347549	40.0000	38.1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
85 Butylbenzylphthalate	149	9.056	9.056	(0.938)	682818	40.0000	40.6
89 Benzo(a)anthracene	228	9.643	9.643	(0.998)	990591	40.0000	36.9
92 Chrysene	228	9.682	9.682	(1.002)	914923	40.0000	38.3
93 bis(2-Ethylhexyl)phthalate	149	9.581	9.580	(0.992)	838787	40.0000	39.4
94 Di-n-octylphthalate	149	10.235	10.240	(0.903)	1194290	40.0000	39.4
95 Benzo(b)fluoranthene	252	10.818	10.818	(0.954)	802637	40.0000	38.0
96 Benzo(k)fluoranthene	252	10.852	10.857	(0.957)	788325	40.0000	39.7
97 Benzo(a)pyrene	252	11.256	11.256	(0.993)	678918	40.0000	39.2
99 Indeno(1,2,3-cd)pyrene	276	13.091	13.096	(1.155)	455276	40.0000	36.5
100 Dibenzo(a,h)anthracene	278	13.105	13.110	(1.156)	354422	40.0000	35.9
101 Benzo(ghi)perylene	276	13.625	13.635	(1.202)	375295	40.0000	36.1
126 m-Dinitrobenzene	168	5.873	5.873	(0.967)	140617	40.0000	40.5
130 2,3,4,6-Tetrachlorophenol	232	6.301	6.301	(1.037)	194010	40.0000	40.6
143 Dinoseb	211	7.192	7.192	(0.992)	166919	40.0000	41.8
173 Carbazole	167	7.423	7.428	(1.024)	1031789	40.0000	40.8
184 p-Benzoquinone	54	3.431	3.431	(0.868)	76686	40.0000	29.0
192 Methoxychlor	227	9.528	9.527	(0.987)	700776	40.0000	42.5
211 p-Toluidine	106	4.226	4.226	(1.069)	386963	40.0000	35.1
210 m-Toluidine	106	4.250	4.250	(1.076)	483528	40.0000	35.3
215 2-Ethoxyethanol	59	2.290	2.290	(0.580)	373183	40.0000	40.2
26 Phthalic anhydride	104	5.348	5.348	(1.110)	204452	40.0000	51.6
214 1,4-Dinitrobenzene	75	5.815	5.815	(0.957)	157765	40.0000	39.6
216 Methylenebis(2-chloroaniline)	231	9.585	9.585	(0.993)	154259	40.0000	41.2
M 222 Trichlorophenols	196				496977	80.0000	86.2
M 223 Tetrachlorophenols	232				194010	40.0000	40.6
M 224 Benzo(b,k)fluoranthene	252				1590962	80.0000	77.6

Date : 26-FEB-2010 15:33

Client ID: MEGACIV

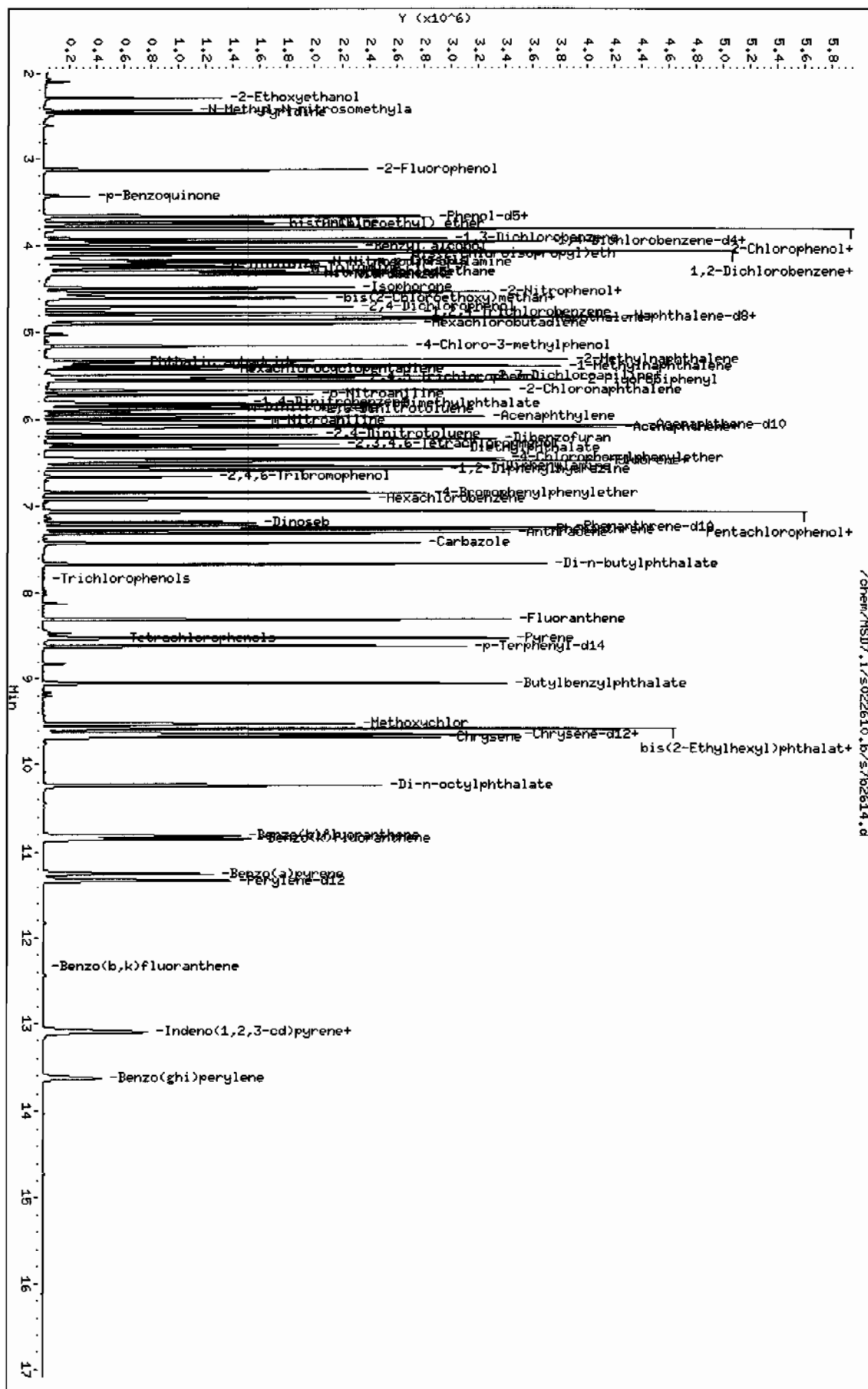
Sample Info: 1|WBNI00225-09.1|ICV11|SVHF11|MEGACICV

Instrument: MSD7.1

Operator: JMB3

Column diameter: 0.20

Column phase: J&W DB-5MS



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 27-FEB-2010 00:07
Lab File ID: s7b2638.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
Method: /chem/MSD7.i/s022610.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.84333	0.72762	0.72762	0.000	-13.72062	60.00000	Averaged
16 Acetophenone	1.10656	1.09035	1.09035	0.000	-1.46517	60.00000	Averaged
189 Caprolactam	0.07444	0.08269	0.08269	0.000	11.09028	60.00000	Averaged
208 1,1'-Biphenyl	1.10203	1.18702	1.18702	0.000	7.71210	60.00000	Averaged
207 Atrazine	0.03853	0.04597	0.04597	0.000	19.30469	60.00000	Averaged
77 Benzidine	0.37412	0.37290	0.37290	0.000	-0.32808	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.27910	0.28354	0.28354	0.000	1.59226	60.00000	Averaged
102 1,4-Dioxane	0.33513	0.40939	0.40939	0.000	22.16131	60.00000	Averaged
103 Methyl methacrylate	0.19562	0.23961	0.23961	0.000	22.48803	60.00000	Averaged
104 Ethyl methacrylate	0.75140	0.90901	0.90901	0.000	20.97589	60.00000	Averaged
105 2-Picoline	1.13566	1.16769	1.16769	0.000	2.82042	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.44142	0.47438	0.47438	0.000	7.46654	60.00000	Averaged
107 Methyl methanesulfonate	0.50747	0.54617	0.54617	0.000	7.62707	60.00000	Averaged
108 N-Nitrosodiethylamine	0.47013	0.49911	0.49911	0.000	6.16504	60.00000	Averaged
109 Ethyl Methanesulfonate	0.62041	0.76141	0.76141	0.000	22.72687	60.00000	Averaged
110 Pentachloroethane	0.30840	0.42036	0.42036	0.000	36.30233	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.49363	0.51936	0.51936	0.000	5.21438	60.00000	Averaged
113 N-Nitrosomorpholine	0.81412	0.89271	0.89271	0.000	9.65373	60.00000	Averaged
114 o-Toluidine	1.53985	1.58233	1.58233	0.000	2.75855	60.00000	Averaged
115 N-Nitrosopiperidine	0.13162	0.14324	0.14324	0.000	8.82907	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.98197	1.03595	1.03595	0.000	5.49667	60.00000	Averaged
118 2,6-Dichlorophenol	0.20270	0.18717	0.18717	0.000	-7.66350	60.00000	Averaged
119 Hexachloropropene	0.10516	0.16353	0.16353	0.000	55.49743	60.00000	Averaged
120 p-Phenylenediamine	0.22347	0.22273	0.22273	0.000	-0.33095	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.20065	0.21517	0.21517	0.000	7.23239	60.00000	Averaged
122 Safrole	0.18525	0.22522	0.22522	0.000	21.57952	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.39310	0.44447	0.44447	0.000	13.06636	60.00000	Averaged
124 Isosafrole	0.32673	0.44824	0.44824	0.000	37.18926	60.00000	Averaged
125 1,4-Naphthoquinone	42.42497	40.00000	0.30765	0.000	6.06244	60.00000	Linear
127 Pentachlorobenzene	0.35339	0.38326	0.38326	0.000	8.45157	60.00000	Averaged
128 1-Naphthylamine	0.85758	0.95943	0.95943	0.000	11.87595	60.00000	Averaged
129 2-Naphthylamine	0.92399	1.06906	1.06906	0.000	15.70067	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27279	0.29252	0.29252	0.000	7.23152	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.11408	0.15190	0.15190	0.000	33.15347	60.00000	Averaged
137 Phenacetin	0.25171	0.26740	0.26740	0.000	6.23101	60.00000	Averaged
138 Diallate	0.21975	0.22151	0.22151	0.000	0.80197	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 27-FEB-2010 00:07
 Lab File ID: s7b2638.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
 Analysis Type: Init. Cal. Times: 11:07 23:46
 Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
 Method: /chem/MSD7.i/s022610.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.22751	0.29963	0.29963	0.000	31.70163	60.00000	Averaged
213 Trans Diallate	0.25853	0.26060	0.26060	0.000	0.80197	60.00000	Averaged
140 4-Aminobiphenyl	0.53100	0.61459	0.61459	0.000	15.74304	60.00000	Averaged
141 Pentachloronitrobenzene	0.05770	0.06484	0.06484	0.000	12.37888	60.00000	Averaged
142 Pronamide	0.23171	0.26428	0.26428	0.000	14.05423	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.01900	0.02204	0.02204	0.000	15.97890	60.00000	Averaged
147 Methapyrilene	0.45514	0.56955	0.56955	0.000	25.13562	60.00000	Averaged
148 Isodrin	0.10048	0.10103	0.10103	0.000	0.54771	60.00000	Averaged
149 Aramite	0.04292	0.04771	0.04771	0.000	11.14909	60.00000	Averaged
150 Kepone	0.06421	0.06503	0.06503	0.000	1.28262	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.31171	0.34212	0.34212	0.000	9.75602	60.00000	Averaged
152 Chlorobenzilate	0.27373	0.25521	0.25521	0.000	-6.76399	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.52442	0.55141	0.55141	0.000	5.14612	60.00000	Averaged
155 2-Acetylaminofluorene	0.30989	0.30947	0.30947	0.000	-0.13679	60.00000	Averaged
157 7,12Dimethylbenz(a)anthrace	0.51277	0.54729	0.54729	0.000	6.73130	60.00000	Averaged
158 3-Methylcholanthrene	0.37167	0.40941	0.40941	0.000	10.15366	60.00000	Averaged

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Data file : /chem/MSD7.i/s022610.b/s7b2638.d
 Lab Smp Id: WBN100218-08.1 Client Smp ID: APICV
 Inj Date : 27-FEB-2010 00:07
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |WBN100218-08.1|ICV|1|SVMF|1|APICV
 Misc Info : |MSD8270|WBN100217-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s022610.b/MSD7-M8270C-AQA-022610.m
 Meth Date : 01-Mar-2010 10:44 jos00786 Quant Type: ISTD
 Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
 Als bottle: 38 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AP12.sub
 Target Version: 3.50
 Processing Host: kilroy

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.952	3.952	(1.000)	457703	40.0000	
* 29 Naphthalene-d8	136	4.818	4.818	(1.000)	1628008	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	931821	40.0000	
* 67 Phenanthrene-d10	188	7.245	7.245	(1.000)	1617850	40.0000	
* 91 Chrysene-d12	240	9.653	9.653	(1.000)	1288003	40.0000	
* 98 Perylene-d12	264	11.333	11.333	(1.000)	857015	40.0000	
209 Benzaldehyde	77	3.672	3.672	(0.929)	333034	40.0000	34.5
16 Acetophenone	105	4.202	4.202	(1.063)	499057	40.0000	39.4
189 Caprolactam	113	5.093	5.093	(1.057)	134623	40.0000	44.4
208 1,1'-Biphenyl	154	5.642	5.642	(0.929)	1106090	40.0000	43.1
207 Atrazine	173	6.947	6.947	(0.959)	74372	40.0000	47.7
77 Benzidine	184	8.396	8.396	(0.870)	480291	40.0000	39.9
90 3,3'-Dichlorobenzidine	252	9.590	9.590	(0.994)	365203	40.0000	40.6
102 1,4-Dioxane	88	2.290	2.290	(0.580)	187381	40.0000	48.9
103 Methyl methacrylate	100	2.285	2.285	(0.578)	109670	40.0000	49.0
104 Ethyl methacrylate	69	2.656	2.656	(0.672)	416056	40.0000	48.4
105 2-Picoline	93	2.844	2.844	(0.720)	534455	40.0000	41.1
106 N-Nitrosomethylethylamine	88	2.887	2.887	(0.731)	217124	40.0000	43.0
107 Methyl methanesulfonate	80	3.042	3.042	(0.770)	249986	40.0000	43.0
108 N-Nitrosodiethylamine	102	3.277	3.277	(0.829)	228446	40.0000	42.5
109 Ethyl Methanesulfonate	79	3.436	3.436	(0.870)	348500	40.0000	49.1
110 Pentachloroethane	167	3.773	3.773	(0.955)	192400	40.0000	54.5
111 N-Nitrosopyrrolidine	100	4.188	4.188	(1.060)	237715	40.0000	42.1
113 N-Nitrosomorpholine	56	4.212	4.212	(1.066)	408598	40.0000	43.9
114 o-Toluidine	106	4.226	4.226	(1.069)	724237	40.0000	41.1
115 N-Nitrosopiperidine	114	4.428	4.428	(0.919)	233195	40.0000	43.5

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.684	4.684	(0.972)	1686530	40.0000	42.2
118 2,6-Dichlorophenol	162	4.857	4.857	(1.008)	304708	40.0000	36.9
119 Hexachloropropene	213	4.891	4.891	(1.015)	266225	40.0000	62.2
120 p-Phenylenediamine	108	5.093	5.093	(1.057)	362600	40.0000	39.9
121 N-Nitrosodi-n-butylamine	84	5.064	5.064	(1.051)	350292	40.0000	42.9
122 Safrole	162	5.228	5.228	(1.085)	366667	40.0000	48.6
123 1,2,4,5-Tetrachlorobenzene	216	5.430	5.430	(0.894)	414165	40.0000	45.2
124 Isosafrole	162	5.598	5.598	(0.922)	417676	40.0000	54.9
125 1,4-Naphthoquinone	158	5.786	5.786	(0.953)	286671	40.0000	42.4
127 Pentachlorobenzene	250	6.191	6.191	(1.020)	357126	40.0000	43.4
128 1-Naphthylamine	143	6.277	6.277	(1.034)	894018	40.0000	44.8
129 2-Naphthylamine	143	6.335	6.335	(1.044)	996175	40.0000	46.3
131 5-Nitro-o-toluidine	152	6.475	6.475	(1.067)	272578	40.0000	42.9
136 1,3,5-Trinitrobenzene	75	6.720	6.720	(0.928)	245746	40.0000	53.3
137 Phenacetin	108	6.769	6.769	(0.934)	432605	40.0000	42.5 (Q)
138 Diallate	86	6.759	6.759	(0.933)	358370	40.0000	40.3
212 Cis Diallate	86	6.836	6.836	(0.944)	72714	6.00000	7.9
213 Trans Diallate	86	6.759	6.759	(0.933)	358370	34.0000	34.3
140 4-Aminobiphenyl	169	7.062	7.062	(0.975)	994319	40.0000	46.3
141 Pentachloronitrobenzene	237	7.082	7.082	(0.977)	104897	40.0000	45.0 (Q)
142 Pronamide	173	7.077	7.077	(0.977)	427557	40.0000	45.6
146 4-Nitroquinoline-1-oxide	101	7.910	7.910	(1.092)	35650	40.0000	46.4
147 Methapyrilene	58	7.948	7.948	(1.097)	921442	40.0000	50.0
148 Isodrin	193	8.175	8.175	(1.128)	163454	40.0000	40.2
149 Aramite	185	8.569	8.569	(1.183)	77182	40.0000	44.4
150 Kepone	272	9.162	9.162	(1.264)	105206	40.0000	40.5
151 p-(Dimethylamino)azobenzene	120	8.752	8.752	(0.907)	440648	40.0000	43.9
152 Chlorobenzilate	251	8.781	8.781	(0.910)	328712	40.0000	37.3
153 3,3'-Dimethylbenzidine	212	9.065	9.065	(0.939)	710215	40.0000	42.0
155 2-Acetylaminofluorene	181	9.311	9.311	(0.965)	398598	40.0000	39.9
157 7,12Dimethylbenz (a) anthracene	256	10.794	10.794	(0.952)	469035	40.0000	42.7
158 3-Methylcholanthrene	268	11.738	11.738	(1.036)	350866	40.0000	44.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD7.1/s022610.b/s7b2638.d

Date : 27-FEB-2010 00:07

Client ID: APICV

Sample Info: IWBH000218-08.11ICV11ISWHF11APICV

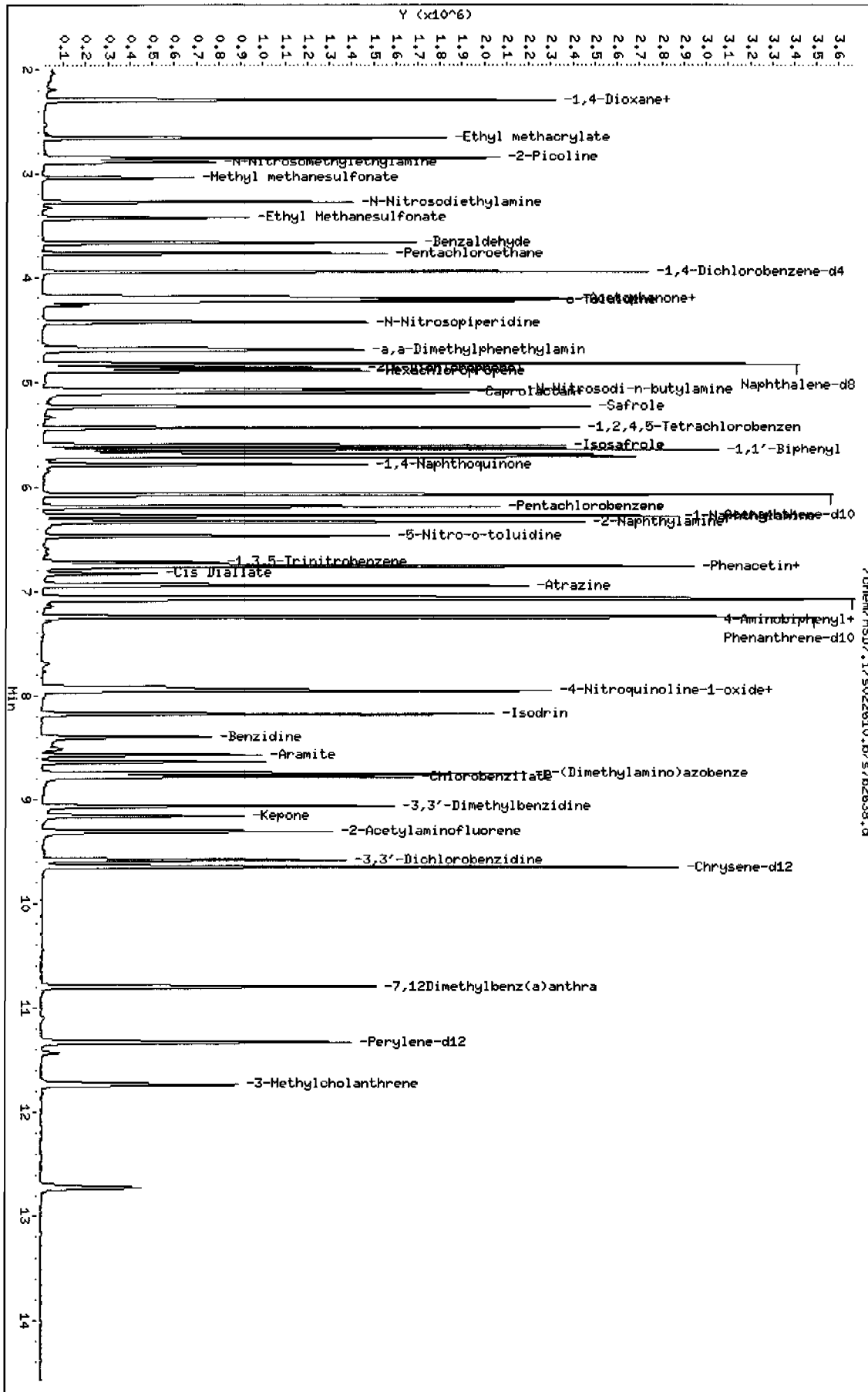
Column phase: 3M DB-SHS

Instrument: MSD7.1

Operator: JHB3

Column diameter: 0.20

Page 1



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 04-MAR-2010 15:49
Lab File ID: s4c0410.d Init. Cal. Date(s): 25-FEB-2010 28-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:40
Lab Sample ID: WBN100225-05.4 Quant Type: ISTD
Method: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

COMPOUND		RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3	2-Fluorophenol	0.93046	0.76863	0.76863 0.000	-17.39196	60.00000	Averaged	
5	Phenol-d5	1.16111	1.03745	1.03745 0.000	-10.65013	60.00000	Averaged	
20	Nitrobenzene-d5	0.28517	0.24490	0.24490 0.000	-14.11907	60.00000	Averaged	
39	2-Fluorobiphenyl	1.07418	1.09426	1.09426 0.000	1.86926	60.00000	Averaged	
60	2,4,6-Tribromophenol	0.11757	0.11806	0.11806 0.000	0.41663	60.00000	Averaged	
81	p-Terphenyl-d14	0.63809	0.67161	0.67161 0.000	5.25219	60.00000	Averaged	
1	N-Methyl-N-nitrosomethylami	0.64917	0.52156	0.52156 0.000	-19.65760	60.00000	Averaged	
2	Pyridine	0.89300	0.71907	0.71907 0.000	-19.47742	60.00000	Averaged	
4	Aniline	0.50637	0.43005	0.43005 0.000	-15.07099	60.00000	Averaged	
6	Phenol	1.20170	1.09265	1.09265 0.001	-9.07482	20.00000	Averaged ccc	
7	bis(2-Chloroethyl) ether	0.80331	0.80835	0.80835 0.000	0.62728	60.00000	Averaged	
8	2-Chlorophenol	1.03215	0.88898	0.88898 0.000	-13.87127	60.00000	Averaged	
203	n-Decane	1.00759	1.09505	1.09505 0.000	8.67942	60.00000	Averaged	
9	1,3-Dichlorobenzene	1.16391	1.11317	1.11317 0.000	-4.35929	60.00000	Averaged	
11	1,4-Dichlorobenzene	1.23800	1.25264	1.25264 0.001	1.18244	20.00000	Averaged ccc	
13	1,2-Dichlorobenzene	1.11179	1.13312	1.13312 0.000	1.91854	60.00000	Averaged	
14	bis(2-Chloroisopropyl) ether	1.36142	1.31348	1.31348 0.000	-3.52136	60.00000	Averaged	
12	Benzyl alcohol	0.56740	0.43671	0.43671 0.000	-23.03357	60.00000	Averaged	
15	o-Cresol	0.83040	0.83301	0.83301 0.000	0.31388	60.00000	Averaged	
18	m,p-Cresols	0.99713	0.85857	0.85857 0.000	-13.89555	60.00000	Averaged	
17	N-Nitrosodipropylamine	0.77345	0.72499	0.72499 0.050	-6.26539	60.00000	Averaged spcc	
19	Hexachloroethane	0.45942	0.46036	0.46036 0.000	0.20380	60.00000	Averaged	
21	Nitrobenzene	0.27158	0.26011	0.26011 0.000	-4.22216	60.00000	Averaged	
22	Isophorone	0.49835	0.46896	0.46896 0.000	-5.89657	60.00000	Averaged	
23	2-Nitrophenol	0.13559	0.12081	0.12081 0.001	-10.90187	20.00000	Averaged ccc	
24	2,4-Dimethylphenol	0.22585	0.21310	0.21310 0.000	-5.64428	60.00000	Averaged	
25	bis(2-Chloroethoxy)methane	0.29655	0.28158	0.28158 0.000	-5.04739	60.00000	Averaged	
26	2,4-Dichlorophenol	0.19392	0.16052	0.16052 0.001	-17.22372	20.00000	Averaged ccc	
27	Benzoic acid	30.39069	40.00000	0.08691 0.000	-24.02329	60.00000	Linear	
28	1,2,4-Trichlorobenzene	0.23349	0.22103	0.22103 0.000	-5.33683	60.00000	Averaged	
30	Naphthalene	0.79443	0.79300	0.79300 0.000	-0.18061	60.00000	Averaged	
204	alpha-Terpineol	0.18531	0.20095	0.20095 0.000	8.43768	60.00000	Averaged	
31	4-Chloroaniline	0.36606	0.32740	0.32740 0.000	-10.56298	60.00000	Averaged	
32	Hexachlorobutadiene	0.13374	0.13159	0.13159 0.001	-1.60338	20.00000	Averaged ccc	
33	4-Chloro-3-methylphenol	0.18826	0.16078	0.16078 0.001	-14.59865	20.00000	Averaged ccc	
34	2-Methylnaphthalene	0.48750	0.47224	0.47224 0.000	-3.13121	60.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 04-MAR-2010 15:49
Lab File ID: s4c0410.d Init. Cal. Date(s): 25-FEB-2010 28-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:40
Lab Sample ID: WBN100225-05.4 Quant Type: ISTD
Method: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
			RRF40	RRF	%D / %DRIFT	
35 1-Methylnaphthalene	0.48024	0.48215	0.48215	0.000	0.39736	Averaged
36 Hexachlorocyclopentadiene	25.61596	40.00000	0.09919	0.050	-35.96009	Linear spcc
205 2,3-Dichloroaniline	0.52762	0.52651	0.52651	0.000	-0.20916	Averaged
37 2,4,6-Trichlorophenol	0.28364	0.28508	0.28508	0.001	0.50937	Averaged ccc
38 2,4,5-Trichlorophenol	34.88587	40.00000	0.27471	0.000	-12.78532	Linear
40 2-Chloronaphthalene	0.90393	0.90748	0.90748	0.000	0.39280	Averaged
42 o-Nitroaniline	0.25504	0.22499	0.22499	0.000	-11.78271	Averaged
41 m-Nitroaniline	0.20279	0.14690	0.14690	0.000	-27.55797	Averaged
43 Dimethylphthalate	1.02848	1.01409	1.01409	0.000	-1.39884	Averaged
44 2,6-Dinitrotoluene	0.23587	0.21260	0.21260	0.000	-9.86485	Averaged
50 2,4-Dinitrotoluene	0.28204	0.25365	0.25365	0.000	-10.06713	Averaged
45 Acenaphthylene	1.39830	1.43256	1.43256	0.000	2.45026	Averaged
47 Acenaphthene	0.93738	1.01644	1.01644	0.001	8.43502	Averaged ccc
48 2,4-Dinitrophenol	38.61307	40.00000	0.08055	0.050	-3.46733	Linear spcc
49 Dibenzofuran	1.23164	1.25041	1.25041	0.000	1.52417	Averaged
51 Diethylphthalate	1.00062	1.08841	1.08841	0.000	8.77325	Averaged
52 4-Nitrophenol	34.42413	40.00000	0.11478	0.050	-13.93967	Linear spcc
53 Fluorene	1.03877	1.16096	1.16096	0.000	11.76271	Averaged
54 4-Chlorophenylphenylether	0.49885	0.51967	0.51967	0.000	4.17378	Averaged
55 2-Methyl-4,6-dinitrophenol	32.27468	40.00000	0.06881	0.000	-19.31329	Linear
56 p-Nitroaniline	0.19925	0.15004	0.15004	0.000	-24.69735	Averaged
133 Diphenylamine	0.51827	0.44531	0.44531	0.001	-14.07647	Averaged ccc
58 1,2-Diphenylhydrazine	0.65589	0.66170	0.66170	0.000	0.88620	Averaged
61 4-Bromophenylphenylether	0.17588	0.17099	0.17099	0.000	-2.77987	Averaged
63 Hexachlorobenzene	0.18608	0.18586	0.18586	0.000	-0.11701	Averaged
65 Pentachlorophenol	34.01409	40.00000	0.06095	0.001	-14.96478	Linear ccc
206 n-Octadecane	0.34717	0.38380	0.38380	0.000	10.55000	Averaged
68 Phenanthrene	0.88809	0.94252	0.94252	0.000	6.12933	Averaged
69 Anthracene	0.85480	0.90984	0.90984	0.000	6.43986	Averaged
72 Di-n-butylphthalate	0.93363	1.06363	1.06363	0.000	13.92381	Averaged
76 Fluoranthene	0.79395	0.93166	0.93166	0.001	17.34445	Averaged ccc
79 Pyrene	1.07185	1.14530	1.14530	0.000	6.85301	Averaged
85 Butylbenzylphthalate	0.48250	0.55989	0.55989	0.000	16.03947	Averaged
89 Benzo(a)anthracene	0.91853	0.90917	0.90917	0.000	-1.01843	Averaged
92 Chrysene	0.87098	0.90166	0.90166	0.000	3.52310	Averaged
93 bis(2-Ethylhexyl)phthalate	0.68918	0.75664	0.75664	0.000	9.78830	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 04-MAR-2010 15:49
 Lab File ID: s4c0410.d Init. Cal. Date(s): 25-FEB-2010 28-FEB-2010
 Analysis Type: Init. Cal. Times: 03:29 15:40
 Lab Sample ID: WBN100225-05.4 Quant Type: ISTD
 Method: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	35.42626	40.00000	1.40856	0.001	-11.43435	20.00000	Linear ccc
95 Benzo(b)fluoranthene	1.01729	0.99225	0.99225	0.000	-2.46085	60.00000	Averaged
96 Benzo(k)fluoranthene	1.05818	1.09074	1.09074	0.000	3.07791	60.00000	Averaged
97 Benzo(a)pyrene	0.80844	0.84670	0.84670	0.001	4.73264	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.66515	0.82242	0.82242	0.000	23.64436	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.55316	0.70566	0.70566	0.000	27.56837	60.00000	Averaged
101 Benzo(ghi)perylene	0.53657	0.61696	0.61696	0.000	14.98308	60.00000	Averaged
126 m-Dinitrobenzene	0.16672	0.14186	0.14186	0.000	-14.91497	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	30.77342	40.00000	0.18908	0.000	-23.06645	60.00000	Linear
143 Dinoseb	35.10906	40.00000	0.10531	0.000	-12.22735	60.00000	Linear
173 Carbazole	0.64158	0.34305	0.34305	0.000	-46.53019	60.00000	Averaged
184 p-Benzoquinone	0.07707	0.02964	0.02964	0.000	-61.54520	60.00000	Averaged <-
192 Methoxychlor	0.43342	0.45114	0.45114	0.000	4.08878	60.00000	Averaged
211 p-Toluidine	1.17045	0.90762	0.90762	0.000	-22.45593	60.00000	Averaged
210 m-Toluidine	1.42044	1.01123	1.01123	0.000	-28.80877	60.00000	Averaged
215 2-Ethoxyethanol	0.49989	0.36460	0.36460	0.000	-27.06292	60.00000	Averaged
179 Dibenzo(a,e)pyrene	0.20695	0.24824	0.24824	0.000	19.94831	60.00000	Averaged
26 Phthalic anhydride	28.73517	40.00000	0.05469	0.000	-28.16208	60.00000	Linear
214 1,4-Dinitrobenzene	0.20045	0.19783	0.19783	0.000	-1.30792	60.00000	Averaged
216 Methylenebis(2-chloroanilin	29.87018	40.00000	0.06787	0.000	-25.32455	60.00000	Linear
M 222 Trichlorophenols	0.29651	0.27989	0.27989	0.000	-5.60509	60.00000	Averaged
M 223 Tetrachlorophenols	30.77342	40.00000	0.18908	0.000	-23.06645	60.00000	Linear
M 224 Benzo(b,k)fluoranthene	1.03773	1.04150	1.04150	0.000	0.36308	60.00000	Averaged

Data File: /chem/MSD4.i/s030410a.b/s4c0410.d
Report Date: 05-Mar-2010 07:48

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Data file : /chem/MSD4.i/s030410a.b/s4c0410.d
Lab Smp Id: WBN100225-05.4 Client Smp ID: MEGACVS
Inj Date : 04-MAR-2010 15:49
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100225-05.4|CVS|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:48 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: kilroy

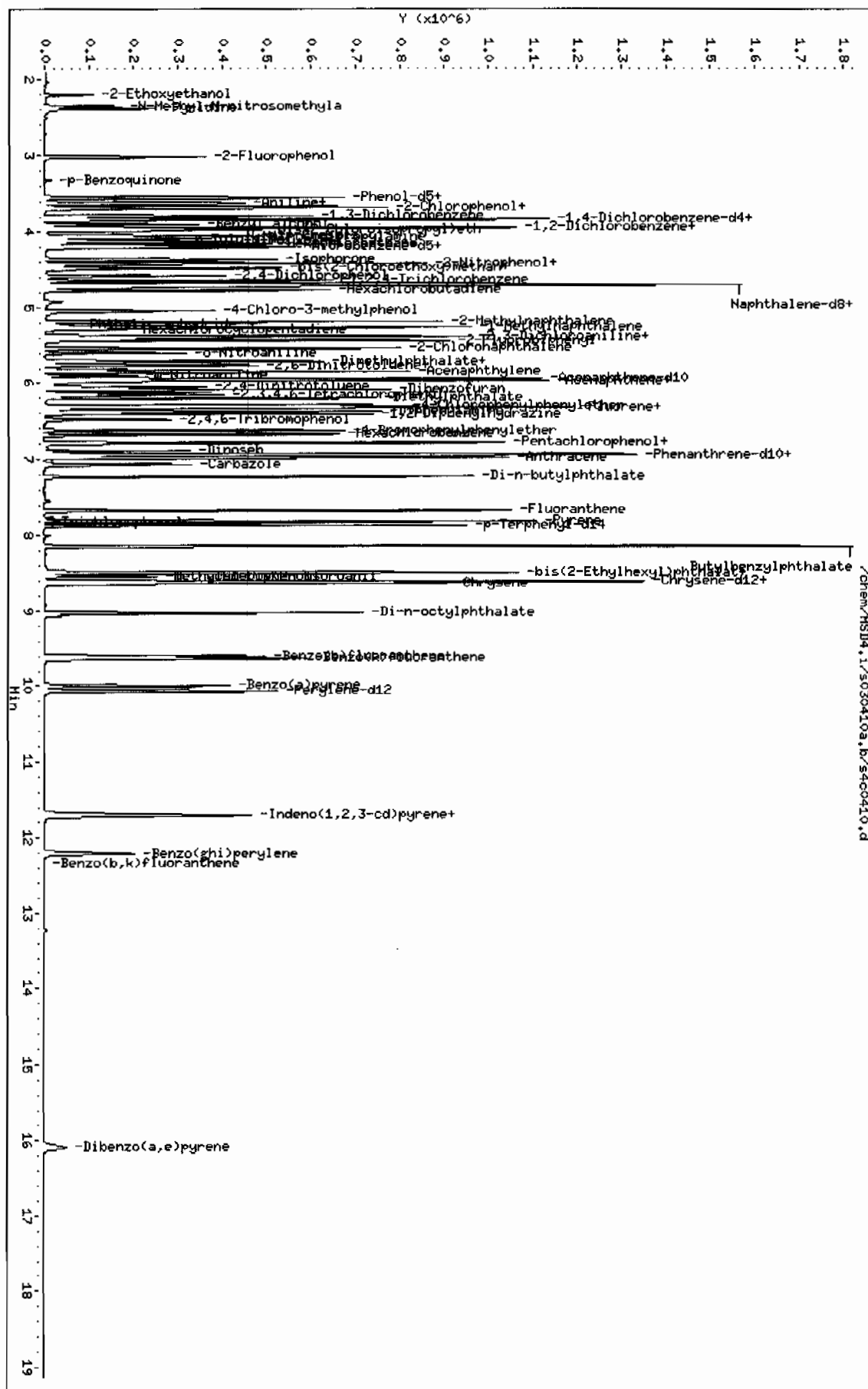
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
*****	=====	***	*****	*****	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.829	3.829	(1.000)	148556	40.0000	
* 29 Naphthalene-d8	136	4.690	4.690	(1.000)	619539	40.0000	
* 46 Acenaphthene-d10	164	5.941	5.941	(1.000)	296815	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936	(1.000)	516247	40.0000	
* 91 Chrysene-d12	240	8.610	8.610	(1.000)	441582	40.0000	
* 98 Perylene-d12	264	10.070	10.070	(1.000)	314762	40.0000	
\$ 3 2-Fluorophenol	112	3.021	3.021	(0.789)	114185	40.0000	33.0
\$ 5 Phenol-d5	99	3.545	3.545	(0.926)	154119	40.0000	35.7
\$ 20 Nitrobenzene-d5	82	4.192	4.192	(0.894)	151727	40.0000	34.4
\$ 39 2-Fluorobiphenyl	172	5.433	5.433	(0.914)	324794	40.0000	40.7
\$ 60 2,4,6-Tribromophenol	329	6.481	6.481	(1.091)	35043	40.0000	40.2
\$ 81 p-Terphenyl-d14	244	7.861	7.861	(0.913)	296569	40.0000	42.1
1 N-Methyl-N-nitrosomethylamine	74	2.352	2.352	(0.614)	77481	40.0000	32.1
2 Pyridine	79	2.384	2.384	(0.623)	106822	40.0000	32.2
4 Aniline	66	3.615	3.615	(0.944)	63887	40.0000	34.0
6 Phenol	94	3.556	3.556	(0.929)	162319	40.0000	36.4
7 bis(2-Chloroethyl) ether	63	3.631	3.631	(0.948)	120085	40.0000	40.2
8 2-Chlorophenol	128	3.695	3.695	(0.965)	132063	40.0000	34.4
203 n-Decane	43	3.673	3.673	(0.959)	162676	40.0000	43.5
9 1,3-Dichlorobenzene	146	3.791	3.791	(0.990)	165368	40.0000	38.2
11 1,4-Dichlorobenzene	146	3.839	3.839	(1.003)	186087	40.0000	40.5
13 1,2-Dichlorobenzene	146	3.941	3.941	(1.029)	168332	40.0000	40.8
14 bis(2-Chloroisopropyl)ether	45	3.973	3.973	(1.038)	195125	40.0000	38.6
12 Benzyl alcohol	108	3.898	3.898	(1.018)	64876	40.0000	30.8
15 o-Cresol	107	3.946	3.946	(1.031)	123748	40.0000	40.1
18 m,p-Cresols	107	4.053	4.053	(1.059)	127546	40.0000	34.4

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng/ul)	(ng/ul)
17 N-Nitrosodipropylamine		70	4.069	4.069	(1.063)	107702	40.0000	37.5
19 Hexachloroethane		117	4.165	4.165	(1.088)	68389	40.0000	40.1
21 Nitrobenzene		77	4.203	4.203	(0.896)	161148	40.0000	38.3
22 Isophorone		82	4.358	4.358	(0.929)	290539	40.0000	37.6
23 2-Nitrophenol		139	4.417	4.417	(0.942)	74848	40.0000	35.6
24 2,4-Dimethylphenol		122	4.412	4.412	(0.941)	132023	40.0000	37.7
25 bis(2-Chloroethoxy)methane		93	4.481	4.481	(0.956)	174451	40.0000	38.0
26 2,4-Dichlorophenol		162	4.577	4.577	(0.976)	99446	40.0000	33.1
27 Benzoic acid		105	4.476	4.476	(0.954)	53845	40.0000	30.4
28 1,2,4-Trichlorobenzene		180	4.641	4.641	(0.990)	136934	40.0000	37.9
30 Naphthalene		128	4.706	4.706	(1.003)	491294	40.0000	39.9
204 alpha-Terpineol		59	4.684	4.684	(0.999)	124495	40.0000	43.4
31 4-Chloroaniline		127	4.727	4.727	(1.008)	202834	40.0000	35.8
32 Hexachlorobutadiene		225	4.770	4.770	(1.017)	81526	40.0000	39.4
33 4-Chloro-3-methylphenol		107	5.037	5.037	(1.074)	99610	40.0000	34.2
34 2-Methylnaphthalene		142	5.187	5.187	(1.106)	292568	40.0000	38.7
35 1-Methylnaphthalene		142	5.262	5.262	(1.122)	298709	40.0000	40.2
36 Hexachlorocyclopentadiene		237	5.289	5.289	(0.890)	29441	40.0000	25.6
205 2,3-Dichloroaniline		161	5.385	5.385	(0.906)	156277	40.0000	39.9
37 2,4,6-Trichlorophenol		196	5.380	5.380	(0.905)	84616	40.0000	40.2
38 2,4,5-Trichlorophenol		196	5.406	5.406	(0.910)	81538	40.0000	34.9
40 2-Chloronaphthalene		162	5.540	5.540	(0.932)	269353	40.0000	40.2
42 o-Nitroaniline		65	5.604	5.604	(0.943)	66780	40.0000	35.3
41 m-Nitroaniline		138	5.898	5.898	(0.993)	43603	40.0000	29.0
43 Dimethylphthalate		163	5.711	5.711	(0.961)	300997	40.0000	39.4
44 2,6-Dinitrotoluene		165	5.770	5.770	(0.971)	63103	40.0000	36.0
50 2,4-Dinitrotoluene		165	6.054	6.054	(1.019)	75286	40.0000	36.0
45 Acenaphthylene		152	5.845	5.845	(0.984)	425205	40.0000	41.0
47 Acenaphthene		154	5.968	5.968	(1.004)	301696	40.0000	43.4
48 2,4-Dinitrophenol		184	5.968	5.968	(1.004)	23909	40.0000	38.6
49 Dibenzofuran		168	6.086	6.086	(1.024)	371140	40.0000	40.6
51 Diethylphthalate		149	6.198	6.198	(1.043)	323057	40.0000	43.5
52 4-Nitrophenol		139	5.989	5.989	(1.008)	34068	40.0000	34.4
53 Fluorene		166	6.321	6.321	(1.064)	344590	40.0000	44.7
54 4-Chlorophenylphenylether		204	6.300	6.300	(1.060)	154247	40.0000	41.7
55 2-Methyl-4,6-dinitrophenol		198	6.337	6.337	(0.914)	35525	40.0000	32.3
56 p-Nitroaniline		138	6.321	6.321	(1.064)	44535	40.0000	30.1
133 Diphenylamine		169	6.380	6.380	(0.920)	229891	40.0000	34.4
58 1,2-Diphenylhydrazine		77	6.407	6.407	(0.924)	341600	40.0000	40.4
61 4-Bromophenylphenylether		248	6.626	6.626	(0.955)	88272	40.0000	38.9
63 Hexachlorobenzene		284	6.685	6.685	(0.964)	95951	40.0000	40.0
65 Pentachlorophenol		266	6.802	6.802	(0.981)	31464	40.0000	34.0
206 n-Octadecane		57	6.786	6.786	(0.978)	198136	40.0000	44.2
68 Phenanthrene		178	6.952	6.952	(1.002)	486575	40.0000	42.4
69 Anthracene		178	6.984	6.984	(1.007)	469704	40.0000	42.6
72 Di-n-butylphthalate		149	7.230	7.230	(1.042)	549095	40.0000	45.6
76 Fluoranthene		202	7.669	7.669	(1.106)	480965	40.0000	46.9

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	7.813	7.813	(0.907)	505745	40.0000	42.7
85 Butylbenzylphthalate	149	8.129	8.129	(0.944)	247238	40.0000	46.4
89 Benzo(a)anthracene	228	8.600	8.600	(0.999)	401475	40.0000	39.6
92 Chrysene	228	8.632	8.632	(1.002)	398159	40.0000	41.4
93 bis(2-Ethylhexyl)phthalate	149	8.493	8.493	(0.986)	334117	40.0000	43.9
94 Di-n-octylphthalate	149	9.022	9.022	(0.896)	443361	40.0000	35.4
95 Benzo(b)fluoranthene	252	9.600	9.600	(0.953)	312324	40.0000	39.0
96 Benzo(k)fluoranthene	252	9.632	9.632	(0.956)	343325	40.0000	41.2
97 Benzo(a)pyrene	252	10.001	10.001	(0.993)	266508	40.0000	41.9
99 Indeno(1,2,3-cd)pyrene	276	11.702	11.702	(1.162)	258867	40.0000	49.4
100 Dibenzo(a,h)anthracene	278	11.707	11.707	(1.163)	222116	40.0000	51.0
101 Benzo(ghi)perylene	276	12.204	12.204	(1.212)	194197	40.0000	46.0
126 m-Dinitrobenzene	168	5.754	5.754	(0.968)	42105	40.0000	34.0
130 2,3,4,6-Tetrachlorophenol	232	6.161	6.161	(1.037)	56122	40.0000	30.8
143 Dinoseb	211	6.893	6.893	(0.994)	54368	40.0000	35.1
173 Carbazole	167	7.070	7.070	(1.019)	177100	40.0000	21.4
184 p-Benzoquinone	54	3.326	3.326	(0.869)	4403	40.0000	15.4
192 Methoxychlor	227	8.476	8.476	(0.984)	199216	40.0000	41.6
211 p-Toluidine	106	4.107	4.107	(1.073)	134832	40.0000	31.0
210 m-Toluidine	106	4.128	4.128	(1.078)	150224	40.0000	28.5
215 2-Ethoxyethanol	59	2.203	2.203	(0.575)	54164	40.0000	29.2
179 Dibenzo(a,e)pyrene	302	16.088	16.088	(1.598)	78136	40.0000	48.0
26 Phthalic anhydride	104	5.230	5.230	(1.115)	33883	40.0000	28.7
214 1,4-Dinitrobenzene	75	5.701	5.701	(0.959)	58719	40.0000	39.5
216 Methylenebis(2-chloroaniline)	231	8.535	8.535	(0.991)	29968	40.0000	29.9
M 222 Trichlorophenols	196				166154	80.0000	75.5
M 223 Tetrachlorophenols	232				56122	40.0000	30.8
M 224 Benzo(b,k)fluoranthene	252				655649	80.0000	80.3

Column phase: J&W DB-5MS

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 04-MAR-2010 16:21
Lab File ID: s4c0411.d Init. Cal. Date(s): 25-FEB-2010 28-FEB-2010
Analysis Type: Init. Cal. Times: 03:29 15:40
Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
Method: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.80177	0.76634	0.76634	0.000	-4.41962	60.00000	Averaged
16 Acetophenone	1.16943	1.08019	1.08019	0.000	-7.63095	60.00000	Averaged
189 Caprolactam	0.08524	0.07356	0.07356	0.000	-13.69755	60.00000	Averaged
208 1,1'-Biphenyl	1.19408	1.09131	1.09131	0.000	-8.60660	60.00000	Averaged
207 Atrazine	0.03767	0.03602	0.03602	0.000	-4.38719	60.00000	Averaged
77 Benzidine	0.28259	0.15732	0.15732	0.000	-44.32783	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.24789	0.24506	0.24506	0.000	-1.14465	60.00000	Averaged
102 1,4-Dioxane	0.36128	0.28134	0.28134	0.000	-22.12630	60.00000	Averaged
103 Methyl methacrylate	0.19684	0.15406	0.15406	0.000	-21.73149	60.00000	Averaged
104 Ethyl methacrylate	0.81257	0.68486	0.68486	0.000	-15.71765	60.00000	Averaged
105 2-Picoline	1.17340	1.00946	1.00946	0.000	-13.97108	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.46493	0.34151	0.34151	0.000	-26.54609	60.00000	Averaged
107 Methyl methanesulfonate	0.44515	0.37255	0.37255	0.000	-16.30912	60.00000	Averaged
108 N-Nitrosodiethylamine	0.50195	0.40418	0.40418	0.000	-19.47817	60.00000	Averaged
109 Ethyl Methanesulfonate	0.59658	0.48427	0.48427	0.000	-18.82603	60.00000	Averaged
110 Pentachloroethane	0.31042	0.25227	0.25227	0.000	-18.73295	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.51683	0.42848	0.42848	0.000	-17.09471	60.00000	Averaged
113 N-Nitrosomorpholine	0.53142	0.50370	0.50370	0.000	-5.21532	60.00000	Averaged
114 o-Toluidine	1.74083	1.57164	1.57164	0.000	-9.71903	60.00000	Averaged
115 N-Nitrosopiperidine	0.13918	0.11482	0.11482	0.000	-17.50654	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.62951	0.57797	0.57797	0.000	-8.18748	60.00000	Averaged
118 2,6-Dichlorophenol	0.20803	0.17770	0.17770	0.000	-14.57831	60.00000	Averaged
119 Hexachloropropene	0.10393	0.08483	0.08483	0.000	-18.37154	60.00000	Averaged
120 p-Phenylenediamine	0.20766	0.20748	0.20748	0.000	-0.08683	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.19550	0.17881	0.17881	0.000	-8.54123	60.00000	Averaged
122 Safrrole	0.19518	0.17019	0.17019	0.000	-12.80252	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.42863	0.38437	0.38437	0.000	-10.32549	60.00000	Averaged
124 Isosafrole	0.33382	0.27001	0.27001	0.000	-19.11750	60.00000	Averaged
125 1,4-Naphthoquinone	0.28008	0.28449	0.28449	0.000	1.57532	60.00000	Averaged
127 Pentachlorobenzene	0.37325	0.34528	0.34528	0.000	-7.49323	60.00000	Averaged
128 1-Naphthylamine	0.82637	0.76742	0.76742	0.000	-7.13308	60.00000	Averaged
129 2-Naphthylamine	0.89188	0.84258	0.84258	0.000	-5.52680	60.00000	Averaged
131 5-Nitro-o-toluidine	0.24491	0.20842	0.20842	0.000	-14.89951	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.10607	0.11002	0.11002	0.000	3.72829	60.00000	Averaged
137 Phenacetin	0.26317	0.23520	0.23520	0.000	-10.62812	60.00000	Averaged
138 Diallate	0.25253	0.23816	0.23816	0.000	-5.69257	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 04-MAR-2010 16:21
 Lab File ID: s4c0411.d Init. Cal. Date(s): 25-FEB-2010 28-FEB-2010
 Analysis Type: Init. Cal. Times: 03:29 15:40
 Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
 Method: /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.23480	0.16364	0.16364	0.000	-30.30601	60.00000	Averaged
213 Trans Diallate	0.29710	0.28018	0.28018	0.000	-5.69257	60.00000	Averaged
140 4-Aminobiphenyl	0.54065	0.45789	0.45789	0.000	-15.30783	60.00000	Averaged
141 Pentachloronitrobenzene	0.07148	0.07807	0.07807	0.000	9.22285	60.00000	Averaged
142 Pronamide	0.26013	0.28379	0.28379	0.000	9.09816	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.00804	0.01014	0.01014	0.000	26.04201	60.00000	Averaged
147 Methapyrilene	0.27513	0.27749	0.27749	0.000	0.86087	60.00000	Averaged
148 Isodrin	0.09291	0.09415	0.09415	0.000	1.33489	60.00000	Averaged
149 Aramite	0.03898	0.03283	0.03283	0.000	-15.77156	60.00000	Averaged
150 Kepone	0.06812	0.06073	0.06073	0.000	-10.85323	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.30964	0.29318	0.29318	0.000	-5.31541	60.00000	Averaged
152 Chlorobenzilate	0.31975	0.28162	0.28162	0.000	-11.92348	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.47666	0.37722	0.37722	0.000	-20.86175	60.00000	Averaged
155 2-Acetylaminofluorene	0.24440	0.25972	0.25972	0.000	6.26571	60.00000	Averaged
157 7,12Dimethylbenz(a)anthrace	0.57533	0.45623	0.45623	0.000	-20.70134	60.00000	Averaged
158 3-Methylcholanthrene	0.37094	0.32776	0.32776	0.000	-11.64249	60.00000	Averaged

Data File: /chem/MSD4.i/s030410a.b/s4c0411.d
Report Date: 05-Mar-2010 07:48

Page 1

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Data file : /chem/MSD4.i/s030410a.b/s4c0411.d
Lab Smp Id: WBN100218-03.5 Client Smp ID: APCVS
Inj Date : 04-MAR-2010 16:21
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100218-03.5|CVS|1|SVMF|1|APCVS
Misc Info : |MSD8270|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:48 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.828	3.828 (1.000)	153374	40.0000	
* 29 Naphthalene-d8	136	4.690	4.690 (1.000)	558431	40.0000	
* 46 Acenaphthene-d10	164	5.941	5.941 (1.000)	332386	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936 (1.000)	578750	40.0000	
* 91 Chrysene-d12	240	8.616	8.616 (1.000)	496851	40.0000	
* 98 Perylene-d12	264	10.076	10.076 (1.000)	371566	40.0000	
209 Benzaldehyde	77	3.556	3.556 (0.929)	117536	40.0000	38.2
16 Acetophenone	105	4.080	4.080 (1.066)	165673	40.0000	36.9 (H)
189 Caprolactam	113	4.973	4.973 (1.060)	41080	40.0000	34.5 (H)
208 1,1'-Biphenyl	154	5.513	5.513 (0.928)	362737	40.0000	36.6
207 Atrazine	173	6.711	6.711 (0.968)	20844	40.0000	38.2 (H)
77 Benzidine	184	7.728	7.728 (0.897)	78167	40.0000	22.3 (H)
90 3,3'-Dichlorobenzidine	252	8.546	8.546 (0.992)	121756	40.0000	39.5 (H)
102 1,4-Dioxane	88	2.208	2.208 (0.577)	43150	40.0000	31.1
103 Methyl methacrylate	100	2.197	2.197 (0.574)	23629	40.0000	31.3
104 Ethyl methacrylate	69	2.550	2.550 (0.666)	105039	40.0000	33.7 (H)
105 2-Picoline	93	2.743	2.743 (0.716)	154825	40.0000	34.4
106 N-Nitrosomethylethylamine	88	2.780	2.780 (0.726)	52379	40.0000	29.4
107 Methyl methanesulfonate	80	2.941	2.941 (0.768)	57140	40.0000	33.5
108 N-Nitrosodiethylamine	102	3.165	3.165 (0.827)	61991	40.0000	32.2
109 Ethyl Methanesulfonate	79	3.320	3.320 (0.867)	74274	40.0000	32.5 (H)
110 Pentachloroethane	167	3.652	3.652 (0.954)	38691	40.0000	32.5
111 N-Nitrosopyrrolidine	100	4.069	4.069 (1.063)	65718	40.0000	33.2
113 N-Nitrosomorpholine	56	4.091	4.091 (1.068)	77255	40.0000	37.9
114 o-Toluidine	106	4.107	4.107 (1.073)	241048	40.0000	36.1
115 N-Nitrosopiperidine	114	4.305	4.305 (0.918)	64118	40.0000	33.0

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.545	4.545	(0.969)	322757	40.0000	36.7 (H)
118 2,6-Dichlorophenol	162	4.732	4.732	(1.009)	99234	40.0000	34.2
119 Hexachloropropene	213	4.759	4.759	(1.015)	47374	40.0000	32.6
120 p-Phenylenediamine	108	4.973	4.973	(1.060)	115863	40.0000	40.0 (H)
121 N-Nitrosodi-n-butylamine	84	4.936	4.936	(1.052)	99851	40.0000	36.6 (H)
122 Safrole	162	5.101	5.101	(1.088)	95039	40.0000	34.9
123 1,2,4,5-Tetrachlorobenzene	216	5.305	5.305	(0.893)	127759	40.0000	35.9
124 Isosafrole	162	5.471	5.471	(0.921)	89746	40.0000	32.4
125 1,4-Naphthoquinone	158	5.663	5.663	(0.953)	94562	40.0000	40.6
127 Pentachlorobenzene	250	6.048	6.048	(1.018)	114766	40.0000	37.0
128 1-Naphthylamine	143	6.134	6.134	(1.032)	255081	40.0000	37.1 (H)
129 2-Naphthylamine	143	6.187	6.187	(1.041)	280063	40.0000	37.8 (H)
131 5-Nitro-o-toluidine	152	6.316	6.316	(1.063)	69277	40.0000	34.0
136 1,3,5-Trinitrobenzene	75	6.540	6.540	(0.943)	63674	40.0000	41.5 (H)
137 Phenacetin	108	6.567	6.567	(0.947)	136124	40.0000	35.7 (Q)
138 Diallate	86	6.551	6.551	(0.944)	137833	40.0000	37.7 (H)
212 Cis Diallate	86	6.615	6.615	(0.954)	14206	6.00000	4.2
213 Trans Diallate	86	6.551	6.551	(0.944)	137833	34.0000	32.1 (H)
140 4-Aminobiphenyl	169	6.797	6.797	(0.980)	265004	40.0000	33.9
141 Pentachloronitrobenzene	237	6.808	6.808	(0.981)	45184	40.0000	43.7 (Q)
142 Pronamide	173	6.808	6.808	(0.981)	164245	40.0000	43.6
146 4-Nitroquinoline-1-oxide	101	7.417	7.417	(1.069)	5868	40.0000	50.4
147 Methapyrilene	58	7.423	7.423	(1.070)	160600	40.0000	40.3
148 Isodrin	193	7.583	7.583	(1.093)	54488	40.0000	40.5 (H)
149 Aramite	185	7.819	7.819	(1.127)	19002	40.0000	33.7 (H)
150 Kepone	272	8.236	8.236	(1.187)	35147	40.0000	35.6 (H)
151 p-(Dimethylamino)azobenzene	120	7.947	7.947	(0.922)	145669	40.0000	37.9
152 Chlorobenzilate	251	7.958	7.958	(0.924)	139925	40.0000	35.2
153 3,3'-Dimethylbenzidine	212	8.156	8.156	(0.947)	187421	40.0000	31.6 (H)
155 2-Acetylaminofluorene	181	8.337	8.337	(0.968)	129041	40.0000	42.5
157 7,12Dimethylbenz(a)anthracene	256	9.573	9.573	(0.950)	169520	40.0000	31.7
158 3-Methylcholanthrene	268	10.429	10.429	(1.035)	121783	40.0000	35.3 (H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/HSD4.i/s030410a.b/s400411.d

Date: 04-MAR-2010 16:21

Client ID: APCVS

Sample Info: ILMN100218-03.51 CVS111 SVHF111 APCVS

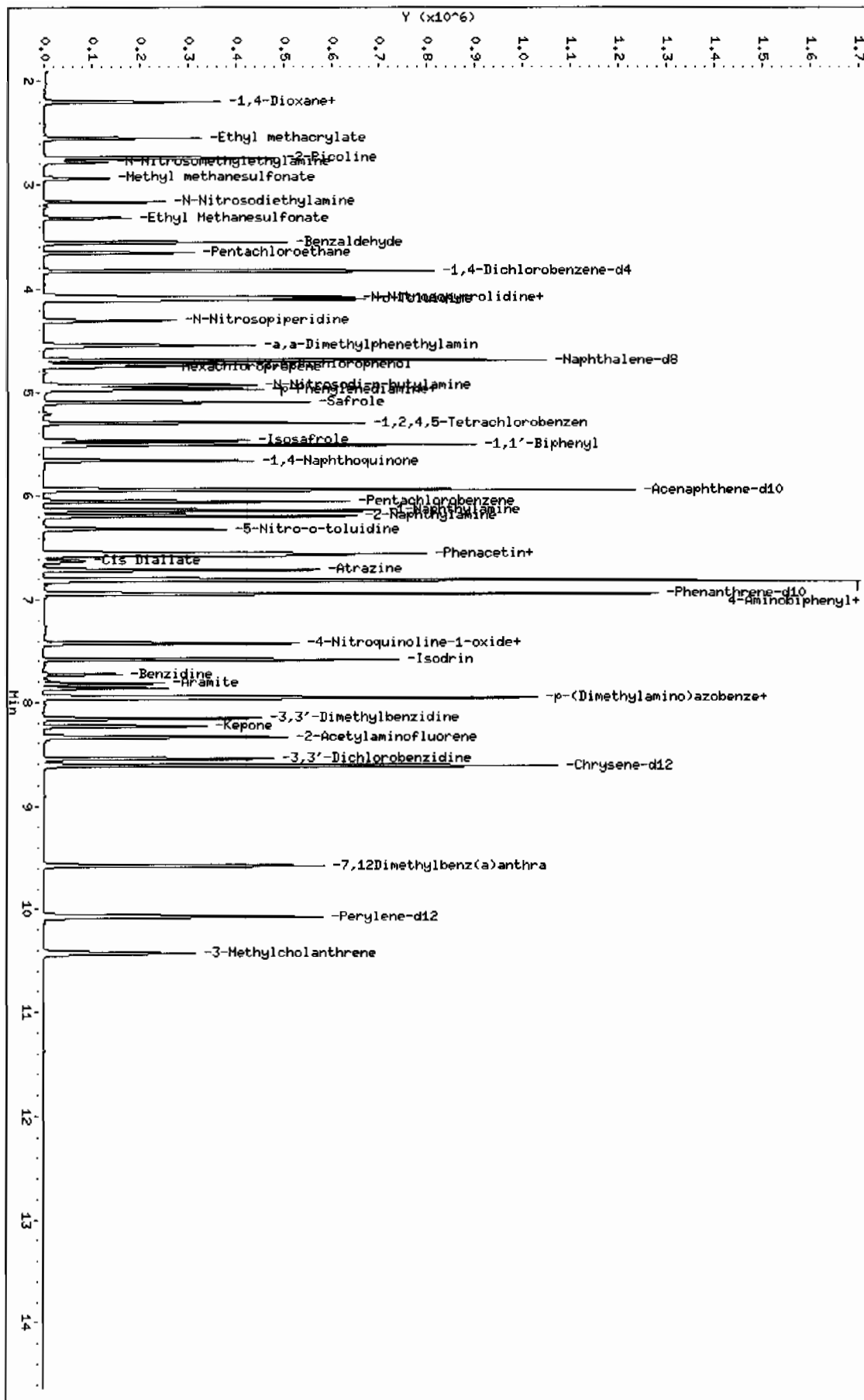
Column phase: J&W DB-5MS

Instrument: HSD4.i

Operator: JHB3

Column diameter: 0.20

/chem/HSD4.i/s030410a.b/s400411.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 08-MAR-2010 10:38
Lab File ID: s7c0804.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100225-05.4 Quant Type: ISTD
Method: /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 3 2-Fluorophenol	1.03969	1.03364	1.03364	0.000	-0.58253	60.00000	Averaged
\$ 5 Phenol-d5	1.30355	1.30929	1.30929	0.000	0.44060	60.00000	Averaged
\$ 20 Nitrobenzene-d5	0.30169	0.30302	0.30302	0.000	0.43959	60.00000	Averaged
\$ 39 2-Fluorobiphenyl	0.99687	1.06805	1.06805	0.000	7.14039	60.00000	Averaged
\$ 60 2,4,6-Tribromophenol	0.11563	0.12224	0.12224	0.000	5.71370	60.00000	Averaged
\$ 81 p-Terphenyl-d14	0.71661	0.73196	0.73196	0.000	2.14156	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.70001	0.69180	0.69180	0.000	-1.17267	60.00000	Averaged
2 Pyridine	0.96465	0.95090	0.95090	0.000	-1.42562	60.00000	Averaged
4 Aniline	0.62182	0.57558	0.57558	0.000	-7.43545	60.00000	Averaged
6 Phenol	1.29492	1.30046	1.30046	0.001	0.42826	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	1.06026	0.90283	0.90283	0.000	-14.84838	60.00000	Averaged
8 2-Chlorophenol	0.99096	1.02026	1.02026	0.000	2.95679	60.00000	Averaged
203 n-Decane	1.86209	1.77992	1.77992	0.000	-4.41320	60.00000	Averaged
9 1,3-Dichlorobenzene	1.24478	1.25544	1.25544	0.000	0.85629	60.00000	Averaged
11 1,4-Dichlorobenzene	1.19442	1.20818	1.20818	0.001	1.15163	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.09872	1.14050	1.14050	0.000	3.80271	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	2.45618	2.32276	2.32276	0.000	-5.43200	60.00000	Averaged
12 Benzyl alcohol	0.67475	0.51862	0.51862	0.000	-23.13859	60.00000	Averaged
15 o-Cresol	0.79330	0.78535	0.78535	0.000	-1.00268	60.00000	Averaged
18 m,p-Cresols	1.07190	1.04790	1.04790	0.000	-2.23877	60.00000	Averaged
17 N-Nitrosodipropylamine	0.73664	0.75030	0.75030	0.050	1.85472	60.00000	Averaged spcc
19 Hexachloroethane	0.46378	0.45815	0.45815	0.000	-1.21393	60.00000	Averaged
21 Nitrobenzene	0.27987	0.27968	0.27968	0.000	-0.06742	60.00000	Averaged
22 Isophorone	0.54073	0.54931	0.54931	0.000	1.58729	60.00000	Averaged
23 2-Nitrophenol	0.13143	0.14466	0.14466	0.001	10.06764	20.00000	Averaged ccc
24 2,4-Dimethylphenol	38.11010	40.00000	0.23156	0.000	-4.72474	60.00000	Wt Linear
25 bis(2-Chloroethoxy)methane	0.29584	0.29539	0.29539	0.000	-0.15228	60.00000	Averaged
26 2,4-Dichlorophenol	0.21226	0.22715	0.22715	0.001	7.01315	20.00000	Averaged ccc
27 Benzoic acid	0.12083	0.14356	0.14356	0.000	18.81480	60.00000	Averaged
28 1,2,4-Trichlorobenzene	0.25742	0.26776	0.26776	0.000	4.01544	60.00000	Averaged
30 Naphthalene	0.75561	0.78127	0.78127	0.000	3.39651	60.00000	Averaged
204 alpha-Terpineol	0.30880	0.26497	0.26497	0.000	-14.19436	60.00000	Averaged
31 4-Chloroaniline	0.35383	0.36129	0.36129	0.000	2.10826	60.00000	Averaged
32 Hexachlorobutadiene	0.13434	0.14151	0.14151	0.001	5.33588	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.22797	0.23523	0.23523	0.001	3.18285	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.54229	0.55835	0.55835	0.000	2.96153	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 08-MAR-2010 10:38
Lab File ID: s7c0804.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100225-05.4 Quant Type: ISTD
Method: /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.51558	0.53374	0.53374	0.000	3.52344	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.19338	0.21656	0.21656	0.050	11.98859	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.49462	0.53032	0.53032	0.000	7.21687	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.28064	0.30328	0.30328	0.001	8.06648	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.28225	0.31486	0.31486	0.000	11.55694	60.00000	Averaged
40 2-Chloronaphthalene	0.92584	0.96762	0.96762	0.000	4.51308	60.00000	Averaged
42 o-Nitroaniline	0.32778	0.31278	0.31278	0.000	-4.57622	60.00000	Averaged
41 m-Nitroaniline	0.23922	0.24139	0.24139	0.000	0.90827	60.00000	Averaged
43 Dimethylphthalate	1.06293	1.11270	1.11270	0.000	4.68194	60.00000	Averaged
44 2,6-Dinitrotoluene	0.24549	0.25926	0.25926	0.000	5.61150	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32362	0.33818	0.33818	0.000	4.49705	60.00000	Averaged
45 Acenaphthylene	1.47998	1.52438	1.52438	0.000	2.99978	60.00000	Averaged
47 Acenaphthene	0.88041	0.96703	0.96703	0.001	9.83792	20.00000	Averaged ccc
48 2,4-Dinitrophenol	61.94758	40.00000	0.12584	0.050	54.86896	60.00000	Linear spcc
49 Dibenzofuran	1.23737	1.31119	1.31119	0.000	5.96547	60.00000	Averaged
51 Diethylphthalate	1.08801	1.11426	1.11426	0.000	2.41296	60.00000	Averaged
52 4-Nitrophenol	0.16277	0.18409	0.18409	0.050	13.09920	60.00000	Averaged spcc
53 Fluorene	1.03823	1.08643	1.08643	0.000	4.64170	60.00000	Averaged
54 4-Chlorophenylphenylether	0.51596	0.54759	0.54759	0.000	6.12981	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	54.00172	40.00000	0.09964	0.000	35.00431	60.00000	Linear
56 p-Nitroaniline	0.21538	0.20738	0.20738	0.000	-3.71083	60.00000	Averaged
133 Diphenylamine	0.47134	0.49382	0.49382	0.001	4.76817	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.59299	0.59570	0.59570	0.000	0.45622	60.00000	Averaged
61 4-Bromophenylphenylether	0.16450	0.18134	0.18134	0.000	10.23856	60.00000	Averaged
63 Hexachlorobenzene	0.15982	0.17244	0.17244	0.000	7.89651	60.00000	Averaged
65 Pentachlorophenol	0.07563	0.08846	0.08846	0.001	16.97621	20.00000	Averaged ccc
206 n-Octadecane	0.50130	0.51062	0.51062	0.000	1.85965	60.00000	Averaged
68 Phenanthrene	0.82082	0.86837	0.86837	0.000	5.79348	60.00000	Averaged
69 Anthracene	0.83131	0.87769	0.87769	0.000	5.57991	60.00000	Averaged
72 Di-n-butylphthalate	1.04581	1.11074	1.11074	0.000	6.20920	60.00000	Averaged
76 Fluoranthene	0.89248	0.98093	0.98093	0.001	9.91035	20.00000	Averaged ccc
79 Pyrene	1.26367	1.30183	1.30183	0.000	3.01979	60.00000	Averaged
85 Butylbenzylphthalate	0.60092	0.63080	0.63080	0.000	4.97326	60.00000	Averaged
89 Benzo(a)anthracene	0.95891	0.95465	0.95465	0.000	-0.44518	60.00000	Averaged
92 Chrysene	0.85329	0.86243	0.86243	0.000	1.07144	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.76109	0.84422	0.84422	0.000	10.92281	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 08-MAR-2010 10:38
Lab File ID: s7c0804.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100225-05.4 Quant Type: ISTD
Method: /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.60621	1.65073	1.65073	0.001	2.77142	20.00000	Averaged ccc
95 Benzo(b)fluoranthene	1.12177	1.14240	1.14240	0.000	1.83960	60.00000	Averaged
96 Benzo(k)fluoranthene	1.05423	1.00623	1.00623	0.000	-4.55338	60.00000	Averaged
97 Benzo(a)pyrene	0.91981	0.95902	0.95902	0.001	4.26360	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.66143	0.86616	0.86616	0.000	30.95395	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.52416	0.68984	0.68984	0.000	31.60804	60.00000	Averaged
101 Benzo(ghi)perylene	0.55161	0.73167	0.73167	0.000	32.64326	60.00000	Averaged
126 m-Dinitrobenzene	0.16950	0.18439	0.18439	0.000	8.78922	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.23333	0.28915	0.28915	0.000	23.92180	60.00000	Averaged
143 Dinoseb	55.31110	40.00000	0.15778	0.000	38.27776	60.00000	Linear
173 Carbazole	0.68135	0.68659	0.68659	0.000	0.76964	60.00000	Averaged
184 p-Benzoquinone	0.26551	0.11756	0.11756	0.000	-55.72401	60.00000	Averaged
192 Methoxychlor	0.58935	0.72315	0.72315	0.000	22.70187	60.00000	Averaged
211 p-Toluidine	1.10616	1.13035	1.13035	0.000	2.18752	60.00000	Averaged
210 m-Toluidine	1.37475	1.31323	1.31323	0.000	-4.47508	60.00000	Averaged
215 2-Ethoxyethanol	0.93140	0.74818	0.74818	0.000	-19.67106	60.00000	Averaged
26 Phthalic anhydride	36.99965	40.00000	0.09374	0.000	-7.50089	60.00000	Linear
214 1,4-Dinitrobenzene	0.19422	0.20771	0.20771	0.000	6.94626	60.00000	Averaged
216 Methylenebis(2-chloroanilin	0.13367	0.12543	0.12543	0.000	-6.16184	60.00000	Averaged
IM 222 Trichlorophenols	0.28144	0.30907	0.30907	0.000	9.81663	60.00000	Averaged
IM 223 Tetrachlorophenols	0.23333	0.28915	0.28915	0.000	23.92180	60.00000	Averaged
IM 224 Benzo(b,k)fluoranthene	1.08800	1.07432	1.07432	0.000	-1.25768	60.00000	Averaged

Data File: /chem/MSD7.i/s030810.b/s7c0804.d
Report Date: 08-Mar-2010 14:16

Page 1

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Data file : /chem/MSD7.i/s030810.b/s7c0804.d
Lab Smp Id: WBN100225-05.4 Client Smp ID: MEGACVS
Inj Date : 08-MAR-2010 10:38
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN100225-05.4|CVS|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	4.004	4.004	(1.000)	465804	40.0000	
* 29 Naphthalene-d8	136	4.876	4.876	(1.000)	1795039	40.0000	
* 46 Acenaphthene-d10	164	6.133	6.133	(1.000)	950264	40.0000	
* 67 Phenanthrene-d10	188	7.312	7.312	(1.000)	1714715	40.0000	
* 91 Chrysene-d12	240	9.730	9.730	(1.000)	1344312	40.0000	
* 98 Perylene-d12	264	11.454	11.454	(1.000)	1088961	40.0000	
\$ 3 2-Fluorophenol	112	3.191	3.191	(0.797)	481472	40.0000	39.8
\$ 5 Phenol-d5	99	3.715	3.715	(0.928)	609874	40.0000	40.2
\$ 20 Nitrobenzene-d5	82	4.370	4.370	(0.896)	543930	40.0000	40.2 (H)
\$ 39 2-Fluorobiphenyl	172	5.613	5.613	(0.915)	1014926	40.0000	42.8
\$ 60 2,4,6-Tribromophenol	329	6.735	6.735	(1.098)	116162	40.0000	42.3
\$ 81 p-Terphenyl-d14	244	8.690	8.690	(0.893)	983976	40.0000	40.8
1 N-Methyl-N-nitrosomethylamine	74	2.507	2.507	(0.626)	322244	40.0000	39.5
2 Pyridine	79	2.545	2.545	(0.636)	442933	40.0000	39.4
4 Aniline	66	3.788	3.788	(0.946)	268108	40.0000	37.0
6 Phenol	94	3.725	3.725	(0.930)	605760	40.0000	40.2
7 bis(2-Chloroethyl) ether	63	3.802	3.802	(0.949)	420543	40.0000	34.1
8 2-Chlorophenol	128	3.869	3.869	(0.966)	475241	40.0000	41.2
203 n-Decane	43	3.850	3.850	(0.962)	829092	40.0000	38.2
9 1,3-Dichlorobenzene	146	3.971	3.971	(0.992)	584788	40.0000	40.3 (H)
11 1,4-Dichlorobenzene	146	4.014	4.014	(1.002)	562773	40.0000	40.5
13 1,2-Dichlorobenzene	146	4.120	4.120	(1.029)	531250	40.0000	41.5
14 bis(2-Chloroisopropyl)ether	45	4.144	4.144	(1.035)	1081952	40.0000	37.8
12 Benzyl alcohol	108	4.072	4.072	(1.017)	241576	40.0000	30.7
15 o-Cresol	107	4.120	4.120	(1.029)	365819	40.0000	39.6
18 m,p-Cresols	107	4.221	4.221	(1.054)	488115	40.0000	39.1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
17 N-Nitrosodipropylamine	70	4.245	4.245	(1.060)	349494	40.0000	40.7
19 Hexachloroethane	117	4.351	4.351	(1.087)	213409	40.0000	39.5 (H)
21 Nitrobenzene	77	4.380	4.380	(0.898)	502030	40.0000	40.0
22 Isophorone	82	4.539	4.539	(0.931)	986032	40.0000	40.6
23 2-Nitrophenol	139	4.597	4.597	(0.943)	259665	40.0000	44.0
24 2,4-Dimethylphenol	122	4.587	4.587	(0.941)	415654	40.0000	38.1
25 bis(2-Chloroethoxy)methane	93	4.654	4.654	(0.955)	530243	40.0000	39.9
26 2,4-Dichlorophenol	162	4.760	4.760	(0.976)	407740	40.0000	42.8
27 Benzoic acid	105	4.650	4.650	(0.954)	257695	40.0000	47.5
28 1,2,4-Trichlorobenzene	180	4.823	4.823	(0.989)	480640	40.0000	41.6
30 Naphthalene	128	4.890	4.890	(1.003)	1402412	40.0000	41.4
204 alpha-Terpineol	59	4.866	4.866	(0.998)	475635	40.0000	34.3
31 4-Chloroaniline	127	4.900	4.900	(1.005)	648525	40.0000	40.8
32 Hexachlorobutadiene	225	4.953	4.953	(1.016)	254016	40.0000	42.1
33 4-Chloro-3-methylphenol	107	5.213	5.213	(1.069)	422245	40.0000	41.3
34 2-Methylnaphthalene	142	5.367	5.367	(1.101)	1002268	40.0000	41.2
35 1-Methylnaphthalene	142	5.444	5.444	(1.117)	958087	40.0000	41.4 (H)
36 Hexachlorocyclopentadiene	237	5.473	5.473	(0.892)	205789	40.0000	44.8 (H)
205 2,3-Dichloroaniline	161	5.564	5.564	(0.907)	503940	40.0000	42.9
37 2,4,6-Trichlorophenol	196	5.555	5.555	(0.906)	288192	40.0000	43.2 (H)
38 2,4,5-Trichlorophenol	196	5.584	5.584	(0.910)	299204	40.0000	44.6
40 2-Chloronaphthalene	162	5.723	5.723	(0.933)	919496	40.0000	41.8
42 o-Nitroaniline	65	5.781	5.781	(0.943)	297221	40.0000	38.2
41 m-Nitroaniline	138	6.080	6.080	(0.991)	229385	40.0000	40.4
43 Dimethylphthalate	163	5.892	5.892	(0.961)	1057356	40.0000	41.9
44 2,6-Dinitrotoluene	165	5.945	5.945	(0.969)	246366	40.0000	42.2
50 2,4-Dinitrotoluene	165	6.248	6.248	(1.019)	321357	40.0000	41.8
45 Acenaphthylene	152	6.032	6.032	(0.984)	1448564	40.0000	41.2
47 Acenaphthene	154	6.157	6.157	(1.004)	918930	40.0000	43.9
48 2,4-Dinitrophenol	184	6.152	6.152	(1.003)	119584	40.0000	61.9
49 Dibenzofuran	168	6.282	6.282	(1.024)	1245974	40.0000	42.4
51 Diethylphthalate	149	6.402	6.402	(1.044)	1058840	40.0000	41.0
52 4-Nitrophenol	139	6.166	6.166	(1.005)	174933	40.0000	45.2
53 Fluorene	166	6.547	6.547	(1.068)	1032391	40.0000	41.8
54 4-Chlorophenylphenylether	204	6.518	6.518	(1.063)	520356	40.0000	42.4
55 2-Methyl-4,6-dinitrophenol	198	6.561	6.561	(0.897)	170854	40.0000	54.0
56 p-Nitroaniline	138	6.542	6.542	(1.067)	197070	40.0000	38.5
133 Diphenylamine	169	6.609	6.609	(0.904)	846758	40.0000	41.9 (H)
58 1,2-Diphenylhydrazine	77	6.648	6.648	(0.909)	1021453	40.0000	40.2
61 4-Bromophenylphenylether	248	6.913	6.913	(0.945)	310946	40.0000	44.1 (H)
63 Hexachlorobenzene	284	6.985	6.985	(0.955)	295680	40.0000	43.2
65 Pentachlorophenol	266	7.134	7.134	(0.976)	151690	40.0000	46.8
206 n-Octadecane	57	7.120	7.120	(0.974)	875567	40.0000	40.7
68 Phenanthrene	178	7.332	7.332	(1.003)	1489014	40.0000	42.3
69 Anthracene	178	7.375	7.375	(1.009)	1504996	40.0000	42.2
72 Di-n-butylphthalate	149	7.727	7.727	(1.057)	1904610	40.0000	42.5
76 Fluoranthene	202	8.377	8.377	(1.146)	1682009	40.0000	44.0

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	8.593	8.593	(0.883)	1750064	40.0000	41.2
85 Butylbenzylphthalate	149	9.118	9.118	(0.937)	847993	40.0000	42.0 (H)
89 Benzo(a)anthracene	228	9.715	9.715	(0.998)	1283342	40.0000	39.8 (H)
92 Chrysene	228	9.759	9.759	(1.003)	1159380	40.0000	40.4
93 bis(2-Ethylhexyl)phthalate	149	9.643	9.643	(0.991)	1134901	40.0000	44.4
94 Di-n-octylphthalate	149	10.312	10.312	(0.900)	1797579	40.0000	41.1
95 Benzo(b)fluoranthene	252	10.919	10.919	(0.953)	1244033	40.0000	40.7 (H)
96 Benzo(k)fluoranthene	252	10.958	10.958	(0.957)	1095745	40.0000	38.2
97 Benzo(a)pyrene	252	11.372	11.372	(0.993)	1044339	40.0000	41.7 (H)
99 Indeno(1,2,3-cd)pyrene	276	13.269	13.269	(1.158)	943219	40.0000	52.4
100 Dibenzo(a,h)anthracene	278	13.283	13.283	(1.160)	751209	40.0000	52.6 (H)
101 Benzo(ghi)perylene	276	13.823	13.823	(1.207)	796760	40.0000	53.0
126 m-Dinitrobenzene	168	5.930	5.930	(0.967)	175222	40.0000	43.5
130 2,3,4,6-Tetrachlorophenol	232	6.364	6.364	(1.038)	274769	40.0000	49.6
143 Dinoseb	211	7.255	7.255	(0.992)	270549	40.0000	55.3
173 Carbazole	167	7.491	7.491	(1.024)	1177306	40.0000	40.3
184 p-Benzoquinone	54	3.489	3.489	(0.871)	54759	40.0000	17.7
192 Methoxychlor	227	9.595	9.595	(0.986)	972134	40.0000	49.1 (H)
211 p-Toluidine	106	4.284	4.284	(1.070)	526523	40.0000	40.9 (H)
210 m-Toluidine	106	4.303	4.303	(1.075)	611709	40.0000	38.2
215 2-Ethoxyethanol	59	2.357	2.357	(0.589)	348506	40.0000	32.1
26 Phthalic anhydride	104	5.406	5.406	(1.109)	168274	40.0000	37.0
214 1,4-Dinitrobenzene	75	5.873	5.873	(0.958)	197378	40.0000	42.8
216 Methylenebis(2-chloroaniline)	231	9.657	9.657	(0.993)	168622	40.0000	37.5 (H)
M 222 Trichlorophenols	196				587396	80.0000	87.8
M 223 Tetrachlorophenols	232				274769	40.0000	49.6
M 224 Benzo(b,k)fluoranthene	252				2339778	80.0000	79.0

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/MSD7.i/s030810.b/s7c0804.d

Date : 08-MAR-2010 10:38

Client ID: MEGACVS

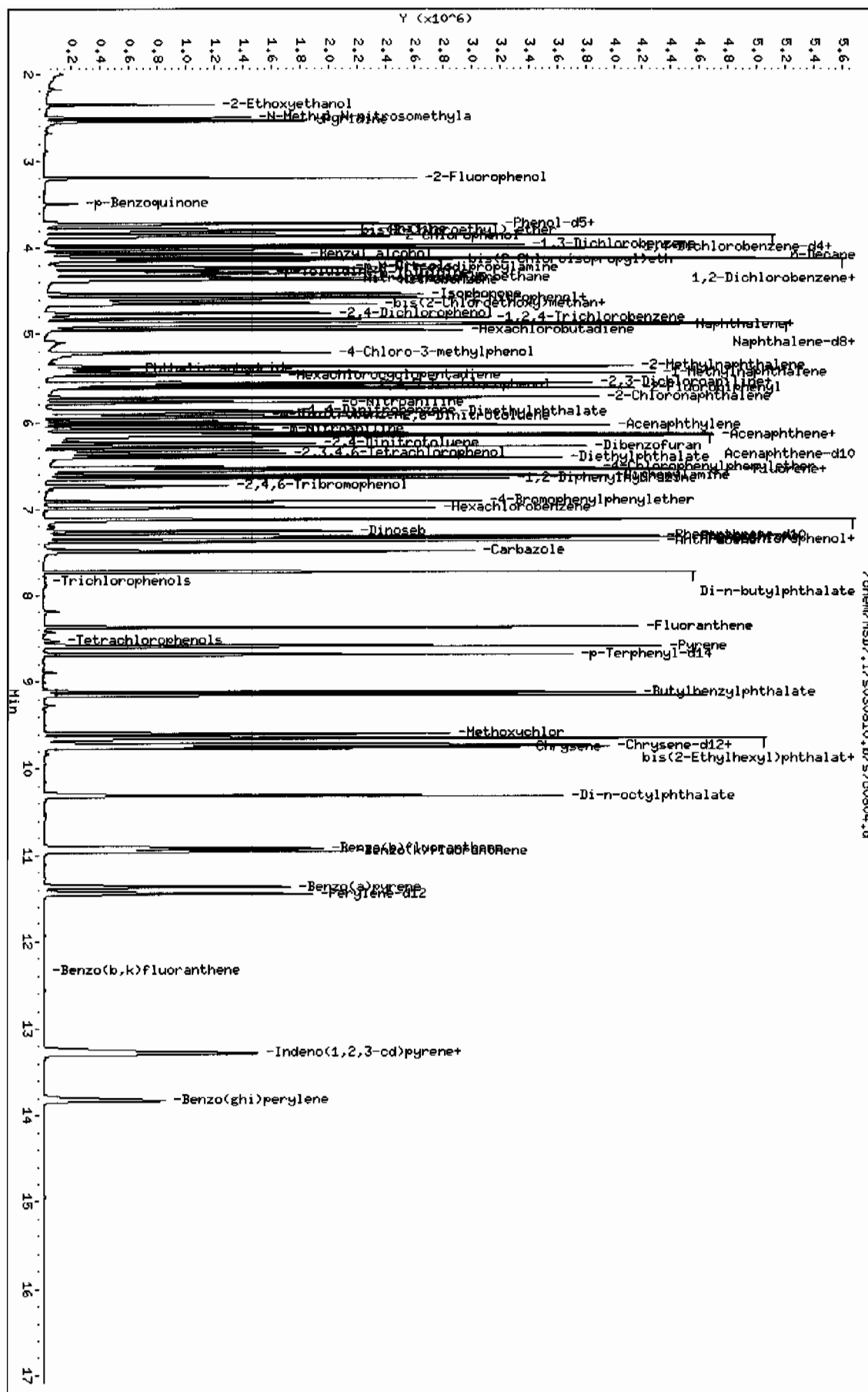
Sample Info: IABN100225-05,41CVS11|SVNF11|MEGACVS

Column phase: J&W DB-5MS

Instrument: MSD7.1

Operator: JMB3

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 08-MAR-2010 11:02
Lab File ID: s7c0805.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 11:07 23:46
Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
Method: /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.84333	0.82110	0.82110	0.000	-2.63627	60.00000	Averaged
16 Acetophenone	1.10656	1.11239	1.11239	0.000	0.52608	60.00000	Averaged
189 Caprolactam	0.07444	0.07732	0.07732	0.000	3.87042	60.00000	Averaged
208 1,1'-Biphenyl	1.10203	1.14315	1.14315	0.000	3.73087	60.00000	Averaged
207 Atrazine	0.03853	0.04095	0.04095	0.000	6.26654	60.00000	Averaged
77 Benzidine	0.37412	0.36046	0.36046	0.000	-3.65144	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.27910	0.29279	0.29279	0.000	4.90719	60.00000	Averaged
102 1,4-Dioxane	0.33513	0.33440	0.33440	0.000	-0.21510	60.00000	Averaged
103 Methyl methacrylate	0.19562	0.19431	0.19431	0.000	-0.66883	60.00000	Averaged
104 Ethyl methacrylate	0.75140	0.74372	0.74372	0.000	-1.02177	60.00000	Averaged
105 2-Picoline	1.13566	1.12475	1.12475	0.000	-0.96070	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.44142	0.42485	0.42485	0.000	-3.75422	60.00000	Averaged
107 Methyl methanesulfonate	0.50747	0.47801	0.47801	0.000	-5.80575	60.00000	Averaged
108 N-Nitrosodiethylamine	0.47013	0.46789	0.46789	0.000	-0.47567	60.00000	Averaged
109 Ethyl Methanesulfonate	0.62041	0.59603	0.59603	0.000	-3.92942	60.00000	Averaged
110 Pentachloroethane	0.30840	0.31718	0.31718	0.000	2.84524	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.49363	0.50254	0.50254	0.000	1.80612	60.00000	Averaged
113 N-Nitrosomorpholine	0.81412	0.73435	0.73435	0.000	-9.79804	60.00000	Averaged
114 o-Toluidine	1.53985	1.54620	1.54620	0.000	0.41213	60.00000	Averaged
115 N-Nitrosopiperidine	0.13162	0.13397	0.13397	0.000	1.78975	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.98197	0.81338	0.81338	0.000	-17.16884	60.00000	Averaged
118 2,6-Dichlorophenol	0.20270	0.21326	0.21326	0.000	5.20783	60.00000	Averaged
119 Hexachloropropene	0.10516	0.11139	0.11139	0.000	5.92098	60.00000	Averaged
120 p-Phenylenediamine	0.22347	0.23673	0.23673	0.000	5.93688	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.20065	0.19017	0.19017	0.000	-5.22622	60.00000	Averaged
122 Safrole	0.18525	0.19511	0.19511	0.000	5.32227	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.39310	0.42294	0.42294	0.000	7.58983	60.00000	Averaged
124 Isosafrole	0.32673	0.33163	0.33163	0.000	1.50152	60.00000	Averaged
125 1,4-Naphthoquinone	43.59129	40.00000	0.31466	0.000	8.97822	60.00000	Linear
127 Pentachlorobenzene	0.35339	0.37276	0.37276	0.000	5.48048	60.00000	Averaged
128 1-Naphthylamine	0.85758	0.88516	0.88516	0.000	3.21517	60.00000	Averaged
129 2-Naphthylamine	0.92399	0.95558	0.95558	0.000	3.41901	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27279	0.28314	0.28314	0.000	3.79347	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.11408	0.14264	0.14264	0.000	25.03637	60.00000	Averaged
137 Phenacetin	0.25171	0.24921	0.24921	0.000	-0.99488	60.00000	Averaged
138 Diallate	0.21975	0.22665	0.22665	0.000	3.14054	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 08-MAR-2010 11:02
 Lab File ID: s7c0805.d Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
 Analysis Type: Init. Cal. Times: 11:07 23:46
 Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
 Method: /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE	
212 Cis Diallate	0.22751	0.22155	0.22155	0.000	-2.62152	60.00000	Averaged
213 Trans Diallate	0.25853	0.26665	0.26665	0.000	3.14054	60.00000	Averaged
140 4-Aminobiphenyl	0.53100	0.58358	0.58358	0.000	9.90257	60.00000	Averaged
141 Pentachloronitrobenzene	0.05770	0.06376	0.06376	0.000	10.50691	60.00000	Averaged
142 Pronamide	0.23171	0.24955	0.24955	0.000	7.69805	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.01900	0.02028	0.02028	0.000	6.75627	60.00000	Averaged
147 Methapyrilene	0.45514	0.38609	0.38609	0.000	-15.17139	60.00000	Averaged
148 Isodrin	0.10048	0.10417	0.10417	0.000	3.67583	60.00000	Averaged
149 Aramite	0.04292	0.04963	0.04963	0.000	15.63500	60.00000	Averaged
150 Kepone	0.06421	0.06909	0.06909	0.000	7.60330	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.31171	0.31099	0.31099	0.000	-0.23137	60.00000	Averaged
152 Chlorobenzilate	0.27373	0.29591	0.29591	0.000	8.10493	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.52442	0.50861	0.50861	0.000	-3.01530	60.00000	Averaged
155 2-Acetylaminofluorene	0.30989	0.32547	0.32547	0.000	5.02780	60.00000	Averaged
157 7,12Dimethylbenz(a)anthrace	0.51277	0.51047	0.51047	0.000	-0.44914	60.00000	Averaged
158 3-Methylcholanthrene	0.37167	0.39212	0.39212	0.000	5.50273	60.00000	Averaged

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD7.i/s030810.b/s7c0805.d
Lab Smp Id: WBN100218-03.5 Client Smp ID: APCVS
Inj Date : 08-MAR-2010 11:02
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN100218-03.5|CVS|1|SVMF|1|APCVS
Misc Info : |MSD8270|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	4.000	4.000 (1.000)	492786	40.0000	
* 29 Naphthalene-d8	136	4.871	4.871 (1.000)	1773101	40.0000	
* 46 Acenaphthene-d10	164	6.128	6.128 (1.000)	1017210	40.0000	
* 67 Phenanthrene-d10	188	7.308	7.308 (1.000)	1779170	40.0000	
* 91 Chrysene-d12	240	9.720	9.720 (1.000)	1499819	40.0000	
* 98 Perylene-d12	264	11.444	11.444 (1.000)	1225576	40.0000	
209 Benzaldehyde	77	3.725	3.725 (0.931)	404626	40.0000	38.9
16 Acetophenone	105	4.255	4.255 (1.064)	548168	40.0000	40.2
189 Caprolactam	113	5.146	5.146 (1.056)	137092	40.0000	41.5
208 1,1'-Biphenyl	154	5.690	5.690 (0.928)	1162819	40.0000	41.5
207 Atrazine	173	7.004	7.004 (0.958)	72850	40.0000	42.5
77 Benzidine	184	8.459	8.459 (0.870)	540629	40.0000	38.5
90 3,3'-Dichlorobenzidine	252	9.653	9.653 (0.993)	439138	40.0000	42.0
102 1,4-Dioxane	88	2.362	2.362 (0.591)	164790	40.0000	39.9
103 Methyl methacrylate	100	2.353	2.353 (0.588)	95754	40.0000	39.7
104 Ethyl methacrylate	69	2.714	2.714 (0.679)	366494	40.0000	39.6
105 2-Picoline	93	2.906	2.906 (0.727)	554260	40.0000	39.6
106 N-Nitrosomethylethylamine	88	2.945	2.945 (0.736)	209359	40.0000	38.5
107 Methyl methanesulfonate	80	3.099	3.099 (0.775)	235555	40.0000	37.7
108 N-Nitrosodiethylamine	102	3.330	3.330 (0.833)	230572	40.0000	39.8
109 Ethyl Methanesulfonate	79	3.484	3.484 (0.871)	293716	40.0000	38.4
110 Pentachloroethane	167	3.826	3.826 (0.957)	156301	40.0000	41.1
111 N-Nitrosopyrrolidine	100	4.240	4.240 (1.060)	247645	40.0000	40.7
113 N-Nitrosomorpholine	56	4.260	4.260 (1.065)	361879	40.0000	36.1
114 o-Toluidine	106	4.279	4.279 (1.070)	761944	40.0000	40.2
115 N-Nitrosopiperidine	114	4.481	4.481 (0.920)	237551	40.0000	40.7

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
116 a,a-Dimethylphenethylamine	58	4.727	4.727	(0.970)	1442202	40.0000	33.1
118 2,6-Dichlorophenol	162	4.914	4.914	(1.009)	378126	40.0000	42.1
119 Hexachloropropene	213	4.939	4.939	(1.014)	197508	40.0000	42.4
120 p-Phenylenediamine	108	5.146	5.146	(1.056)	419752	40.0000	42.4
121 N-Nitrosodi-n-butylamine	84	5.112	5.112	(1.049)	337186	40.0000	37.9(H)
122 Safrole	162	5.280	5.280	(1.084)	345947	40.0000	42.1
123 1,2,4,5-Tetrachlorobenzene	216	5.483	5.483	(0.895)	430219	40.0000	43.0
124 Isosafrole	162	5.651	5.651	(0.922)	337342	40.0000	40.6
125 1,4-Naphthoquinone	158	5.839	5.839	(0.953)	320076	40.0000	43.6
127 Pentachlorobenzene	250	6.248	6.248	(1.020)	379172	40.0000	42.2
128 1-Naphthylamine	143	6.335	6.335	(1.034)	900391	40.0000	41.3
129 2-Naphthylamine	143	6.393	6.393	(1.043)	972027	40.0000	41.4
131 5-Nitro-o-toluidine	152	6.532	6.532	(1.066)	288016	40.0000	41.5
136 1,3,5-Trinitrobenzene	75	6.788	6.788	(0.929)	253776	40.0000	50.0
137 Phenacetin	108	6.831	6.831	(0.935)	443381	40.0000	39.6(Q)
138 Diallate	86	6.816	6.816	(0.933)	403248	40.0000	41.2
212 Cis Diallate	86	6.894	6.894	(0.943)	59125	6.00000	5.8
213 Trans Diallate	86	6.816	6.816	(0.933)	403248	34.0000	35.1
140 4-Aminobiphenyl	169	7.120	7.120	(0.974)	1038288	40.0000	44.0
141 Pentachloronitrobenzene	237	7.144	7.144	(0.978)	113436	40.0000	44.2(Q)
142 Pronamide	173	7.134	7.134	(0.976)	443987	40.0000	43.1
146 4-Nitroquinoline-1-oxide	101	7.977	7.977	(1.092)	36088	40.0000	42.7
147 Methapyrilene	58	8.011	8.011	(1.096)	686924	40.0000	33.9
148 Isodrin	193	8.237	8.237	(1.127)	185345	40.0000	41.5
149 Aramite	185	8.632	8.632	(1.181)	88304	40.0000	46.2
150 Kepone	272	9.224	9.224	(1.262)	122917	40.0000	43.0
151 p-(Dimethylamino)azobenzene	120	8.815	8.815	(0.907)	466423	40.0000	39.9
152 Chlorobenzilate	251	8.844	8.844	(0.910)	443812	40.0000	43.2
153 3,3'-Dimethylbenzidine	212	9.128	9.128	(0.939)	762820	40.0000	38.8
155 2-Acetylaminofluorene	181	9.378	9.378	(0.965)	488153	40.0000	42.0
157 7,12Dimethylbenz(a)anthracene	256	10.885	10.885	(0.951)	625620	40.0000	39.8
158 3-Methylcholanthrene	268	11.863	11.863	(1.037)	480572	40.0000	42.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/HSD7.i/s030810.b/s7c0805.d

Date: 08-MAR-2010 11:02

Client ID: APCVS

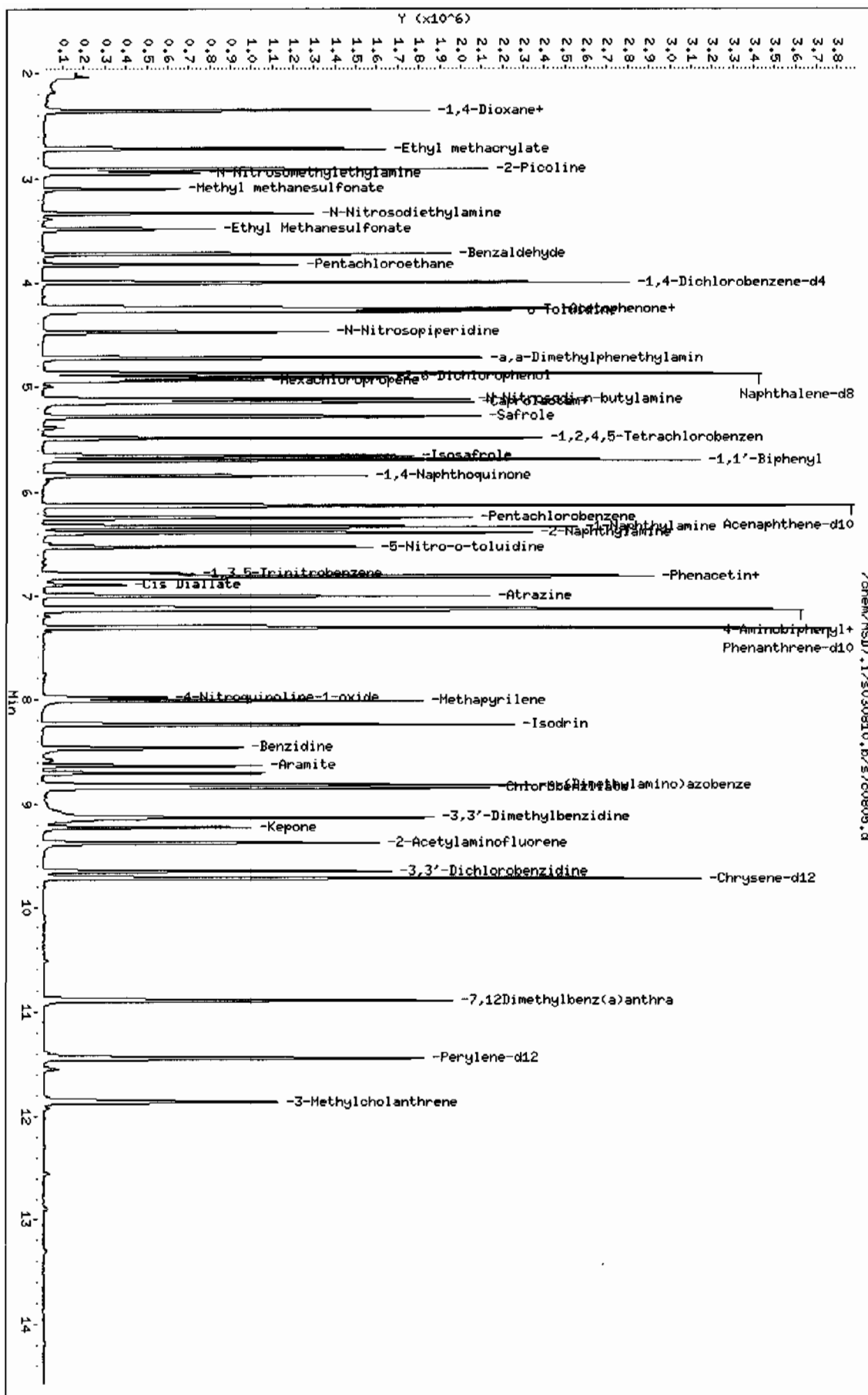
Sample Info: IABH100218-03.5/CVS111SMF111APCVS

Column phase: J&W DB-5MS

Instrument: HSD7.i

Operator: JHB3

Column diameter: 0.20



QC Data

Data File: /chem/MSD4.i/s022410a,b/s4b2446.d

Page 1

Date : 25-FEB-2010 09:00

Client ID: DFTPP

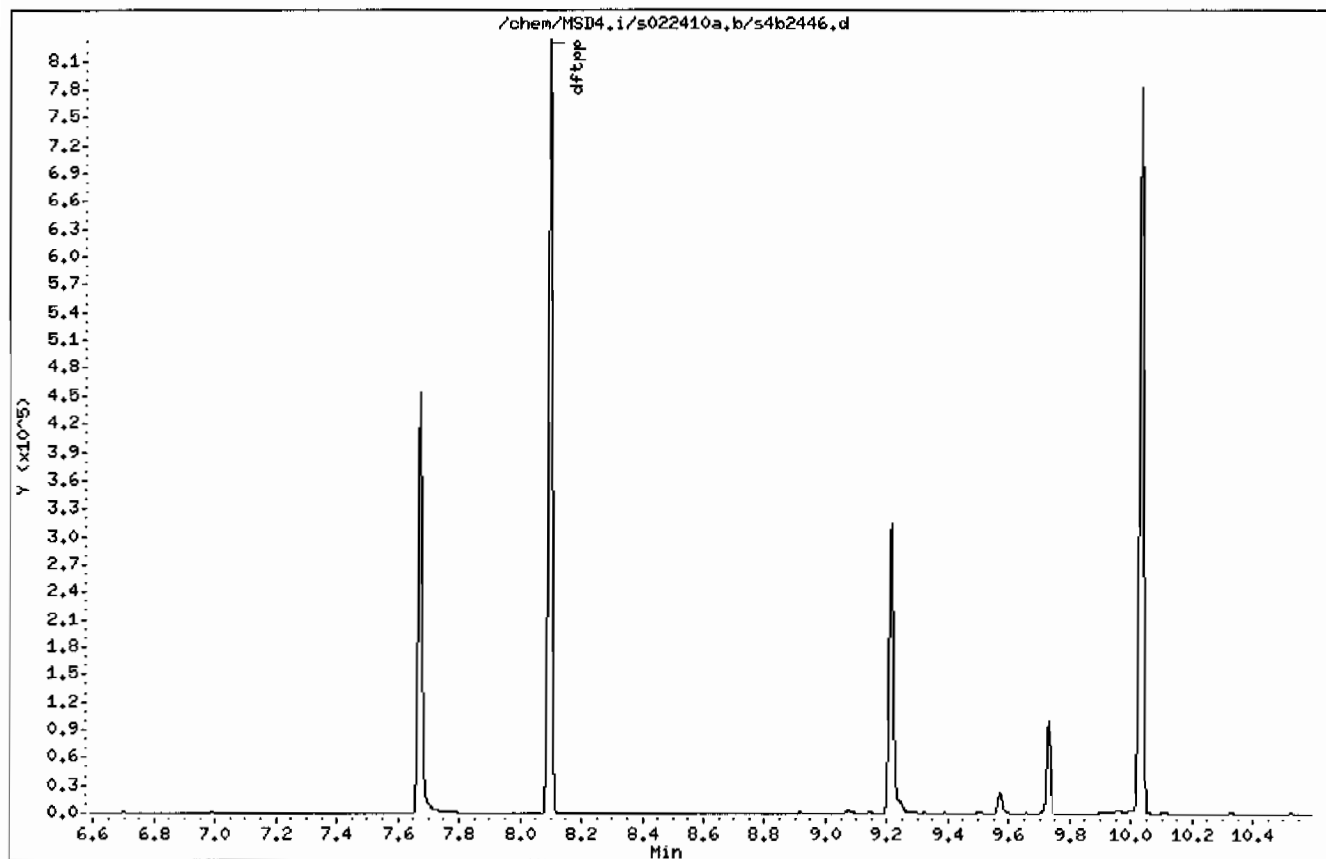
Instrument: MSD4.i

Sample Info: IWBNI00207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 25-FEB-2010 09:00

Client ID: DFTPP

Instrument: HSD4.i

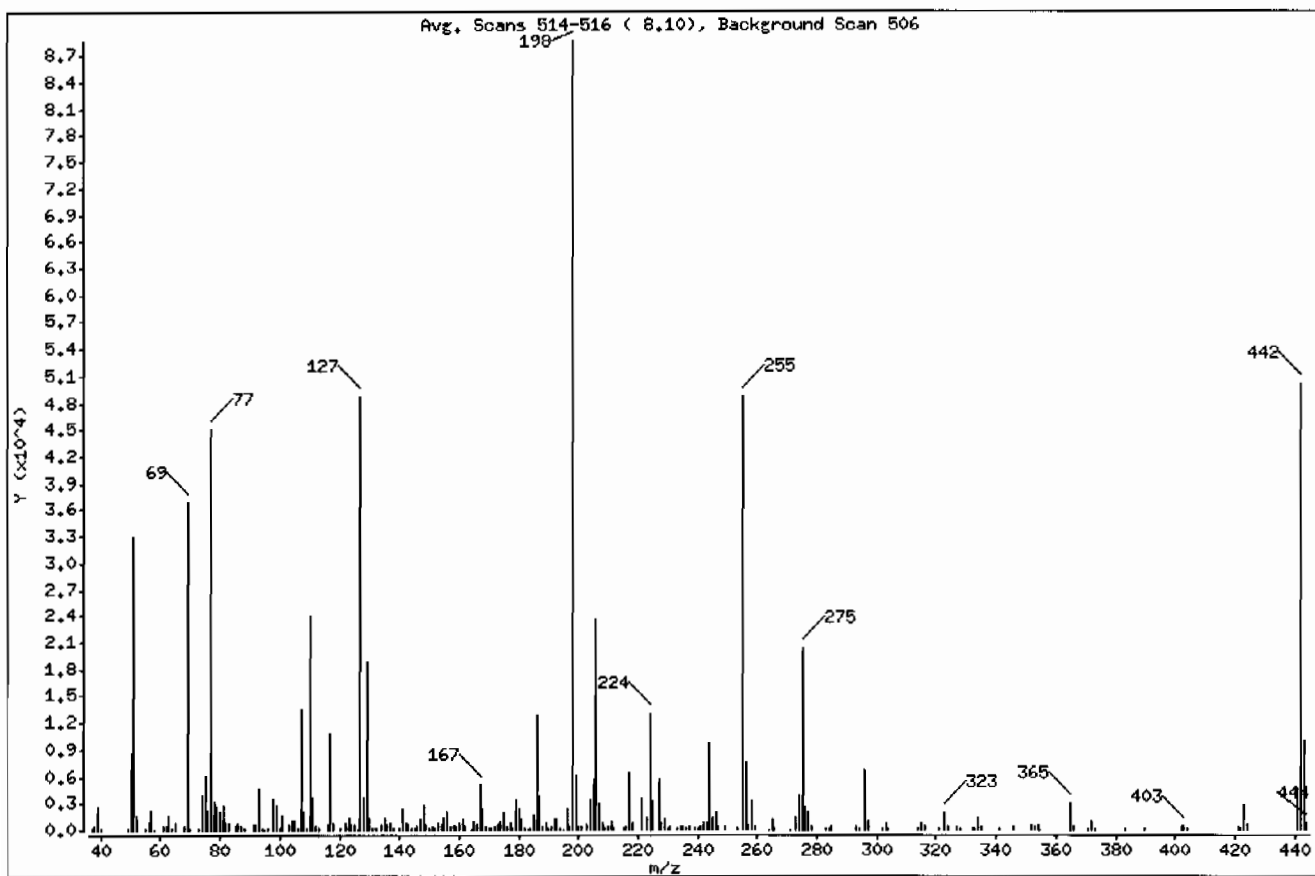
Sample Info: IWBH100207-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.29
68	Less than 2.00% of mass 69	0.54 (1.29)
69	Mass 69 relative abundance	41.70
70	Less than 2.00% of mass 69	0.21 (0.51)
127	40.00 - 60.00% of mass 198	55.00
197	Less than 1.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 30.00% of mass 198	23.02
365	Greater than 1.00% of mass 198	3.41
441	Present, but less than mass 443	5.39
442	Greater than 40.00% of mass 198	56.57
443	17.00 - 23.00% of mass 442	11.22 (19.83)

Date : 25-FEB-2010 09:00

Client ID: DFTPP

Instrument: MSD4.i

Sample Info: IWBNI00207-01|DFTPP|1|SVMF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b2446.d

Spectrum: Avg. Scans 514-516 (8,10), Background Scan 506

Location of Maximum: 198.00

Number of points: 237

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	127	122.00	819	185.00	1670	259.00	471
38.00	452	123.00	1386	186.00	12890	264.00	72
39.00	2576	124.00	617	187.00	3888	265.00	1242
40.00	121	125.00	570	188.00	361	266.00	244
49.00	211	126.00	35	189.00	816	271.00	35
50.00	8602	127.00	48776	190.00	121	273.00	1524
51.00	33072	128.00	3738	191.00	415	274.00	3822
52.00	1699	129.00	18752	192.00	1123	275.00	20416
55.00	144	130.00	1499	193.00	1291	276.00	2706
56.00	883	131.00	305	194.00	255	277.00	1971
57.00	2231	132.00	152	195.00	74	278.00	322
58.00	33	134.00	531	196.00	2462	283.00	223
61.00	380	135.00	1520	197.00	341	284.00	139
62.00	484	136.00	561	198.00	88688	285.00	352
63.00	1532	137.00	835	199.00	6095	293.00	430
64.00	188	138.00	158	200.00	495	294.00	116
65.00	724	140.00	202	201.00	364	296.00	6726
68.00	478	141.00	2424	203.00	691	297.00	935
69.00	36984	142.00	815	204.00	3551	302.00	134
70.00	189	143.00	552	205.00	5740	303.00	800
73.00	286	144.00	130	206.00	23704	304.00	214
74.00	3912	145.00	126	207.00	3049	314.00	284
75.00	6094	146.00	450	208.00	818	315.00	749
76.00	2178	147.00	1236	209.00	266	316.00	380
77.00	45080	148.00	2901	210.00	359	321.00	169
78.00	3218	149.00	534	211.00	963	323.00	2122
79.00	2651	150.00	146	212.00	212	324.00	374
80.00	1963	151.00	335	215.00	232	327.00	415
81.00	2846	152.00	174	216.00	506	328.00	214
82.00	763	153.00	736	217.00	6453	332.00	144
83.00	752	154.00	561	218.00	839	333.00	201
85.00	497	155.00	1390	221.00	3762	334.00	1351
86.00	769	156.00	2120	223.00	1407	335.00	318
87.00	383	157.00	379	224.00	13098	341.00	203
88.00	182	158.00	447	225.00	3213	346.00	487

Date : 25-FEB-2010 09:00

Client ID: DFTPP

Instrument: MSD4.i

Sample Info: IWBNI00207-01|DFTPP|1|SVMF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5HS

Column diameter: 0.20

Data File: s4b2446.d

Spectrum: Avg. Scans 514-516 (8.10), Background Scan 506

Location of Maximum: 198.00

Number of points: 237

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	599	159.00	328	227.00	5793	352.00	608
92.00	695	160.00	715	228.00	750	353.00	422
93.00	4602	161.00	1122	229.00	1162	354.00	562
94.00	304	162.00	317	230.00	147	355.00	33
95.00	35	164.00	34	231.00	468	365.00	3027
96.00	235	165.00	932	233.00	110	366.00	423
98.00	3555	166.00	657	234.00	336	371.00	166
99.00	2856	167.00	5089	235.00	374	372.00	1049
100.00	251	168.00	2546	236.00	252	373.00	222
101.00	1712	169.00	427	237.00	442	383.00	261
103.00	521	170.00	148	239.00	213	390.00	150
104.00	1038	171.00	192	240.00	177	402.00	377
105.00	1009	172.00	434	241.00	331	403.00	495
106.00	305	173.00	610	242.00	719	404.00	188
107.00	13442	174.00	975	243.00	727	421.00	425
108.00	2097	175.00	1992	244.00	9884	422.00	250
109.00	299	176.00	472	245.00	1373	423.00	2821
110.00	24128	177.00	830	246.00	2020	424.00	624
111.00	3771	178.00	278	247.00	387	441.00	4779
112.00	434	179.00	3514	249.00	316	442.00	50168
113.00	154	180.00	2428	253.00	194	443.00	9949
116.00	677	181.00	1136	255.00	48728	444.00	861
117.00	10830	182.00	176	256.00	7489		
118.00	803	183.00	69	257.00	517		
120.00	145	184.00	283	258.00	3184		

Data File: /chem/MSD7,i/s022610,b/s7b2601.d

Page 1

Date : 26-FEB-2010 10:23

Client ID: DFTPP

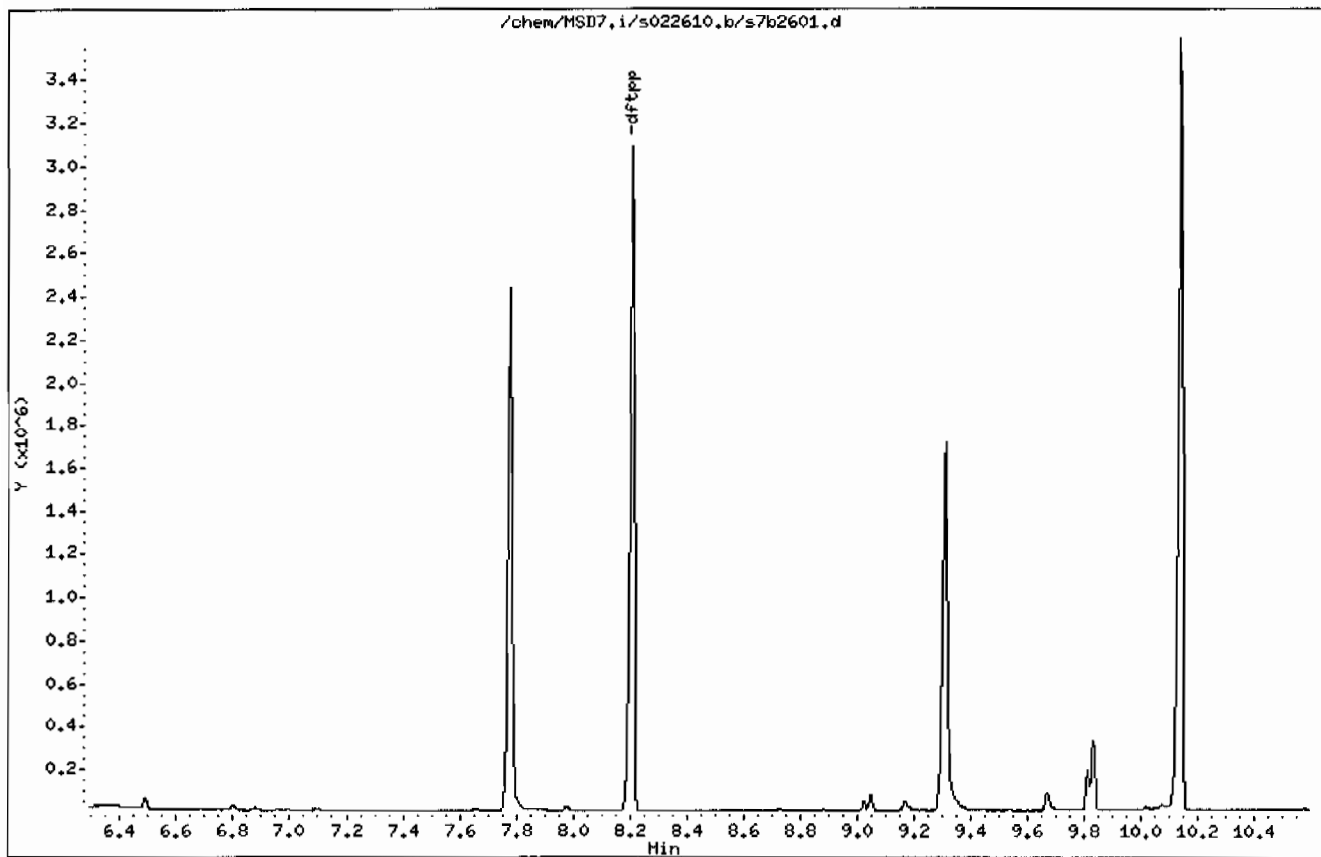
Instrument: MSD7,i

Sample Info: IWBH100207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 26-FEB-2010 10:23

Client ID: DFTPP

Instrument: HSD7.i

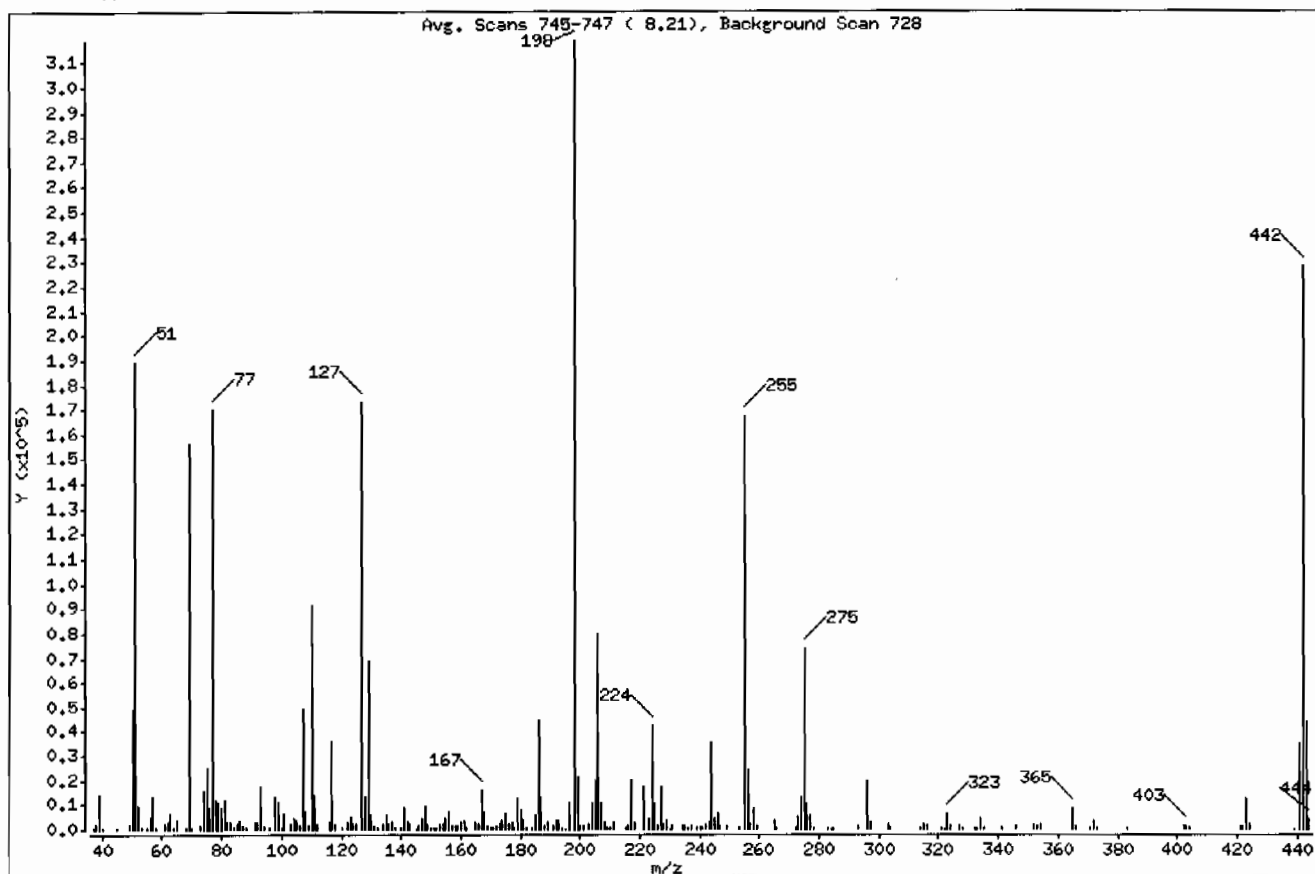
Sample Info: INBN100207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	59.41
68	Less than 2.00% of mass 69	0.28 (0.57)
69	Mass 69 relative abundance	48.94
70	Less than 2.00% of mass 69	0.28 (0.58)
127	40.00 - 60.00% of mass 198	54.14
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.65
275	10.00 - 30.00% of mass 198	23.16
365	Greater than 1.00% of mass 198	2.69
441	Present, but less than mass 443	10.95
442	Greater than 40.00% of mass 198	71.59
443	17.00 - 23.00% of mass 442	13.73 (19.18)

Date : 26-FEB-2010 10:23

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: HWBN100207-01IDFTPP11SVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7b2601.d

Spectrum: Avg. Scans 745-747 (8.21), Background Scan 728

Location of Maximum: 198.00

Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	852	117.00	35928	184.00	921	259.00	1456
38.00	2311	118.00	2505	185.00	5984	265.00	3673
39.00	13932	120.00	682	186.00	44920	266.00	602
40.00	778	122.00	3034	187.00	13079	272.00	686
45.00	617	123.00	4902	188.00	1326	273.00	5148
49.00	1836	124.00	2350	189.00	2753	274.00	13060
50.00	49024	125.00	2075	191.00	1303	275.00	73880
51.00	189504	127.00	172736	192.00	3677	276.00	10097
52.00	9606	128.00	13398	193.00	3924	277.00	5801
53.00	380	129.00	68952	194.00	852	278.00	937
55.00	641	130.00	5708	195.00	213	283.00	683
56.00	5212	131.00	1162	196.00	10681	284.00	363
57.00	12872	132.00	774	198.00	319040	285.00	980
58.00	597	134.00	2028	199.00	21208	293.00	1331
61.00	2326	135.00	5642	200.00	1647	296.00	19728
62.00	2698	136.00	2275	201.00	1773	297.00	2776
63.00	6781	137.00	2609	203.00	2366	303.00	2464
64.00	1046	138.00	715	204.00	10630	304.00	574
65.00	3631	140.00	969	205.00	19512	314.00	904
68.00	888	141.00	8721	206.00	79824	315.00	2209
69.00	156160	142.00	2698	207.00	10932	316.00	1138
70.00	900	143.00	1961	208.00	3049	321.00	715
73.00	1515	145.00	363	209.00	797	322.00	167
74.00	15266	146.00	1578	210.00	844	323.00	6440
75.00	24672	147.00	4519	211.00	3224	324.00	1313
76.00	8506	148.00	9607	215.00	827	327.00	1174
77.00	169984	149.00	1988	216.00	1701	328.00	565
78.00	11795	150.00	396	217.00	20024	332.00	397
79.00	11177	151.00	1094	218.00	2713	333.00	714
80.00	8792	152.00	647	221.00	17472	334.00	4276
81.00	12077	153.00	2565	223.00	4593	335.00	1100
82.00	3170	154.00	2159	224.00	42376	341.00	531
83.00	3008	155.00	4724	225.00	10621	346.00	1286
84.00	636	156.00	7141	226.00	1169	352.00	1989
85.00	2044	157.00	1513	227.00	17440	353.00	1401

Date : 26-FEB-2010 10:23

Client ID: DFTPP

Instrument: HSD7.i

Sample Info: INBN100207-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7b2601.d

Spectrum: Avg. Scans 745-747 (8.21), Background Scan 728

Location of Maximum: 198.00

Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	3508	158.00	1749	228.00	2469	354.00	2183
87.00	1630	159.00	1243	229.00	3883	365.00	8577
88.00	419	160.00	2579	230.00	356	366.00	1114
91.00	2741	161.00	3960	231.00	1525	371.00	644
92.00	3230	162.00	1019	234.00	1203	372.00	3384
93.00	17792	165.00	2876	235.00	1368	373.00	853
94.00	1291	166.00	2290	236.00	770	383.00	796
96.00	998	167.00	15920	237.00	1366	402.00	1481
98.00	13554	168.00	7335	239.00	754	403.00	1754
99.00	10824	169.00	1371	240.00	398	404.00	734
100.00	976	170.00	409	241.00	1037	421.00	1467
101.00	6705	171.00	753	242.00	2373	422.00	1498
103.00	2265	172.00	1523	243.00	2625	423.00	12418
104.00	4074	173.00	1979	244.00	35000	424.00	2370
105.00	3826	174.00	3403	245.00	4542	439.00	178
106.00	1433	175.00	6519	246.00	6439	441.00	34928
107.00	49056	176.00	1866	247.00	1293	442.00	228416
108.00	7671	177.00	3004	249.00	1244	443.00	43808
109.00	1301	178.00	1078	253.00	913	444.00	4114
110.00	91472	179.00	12442	255.00	167552		
111.00	13914	180.00	8233	256.00	24184		
112.00	1881	181.00	3774	257.00	1884		
116.00	2779	182.00	632	258.00	9098		

Data File: /chem/MSD7.i/s022610.b/s7b2615.d

Page 1

Date : 26-FEB-2010 16:00

Client ID: DFTPP

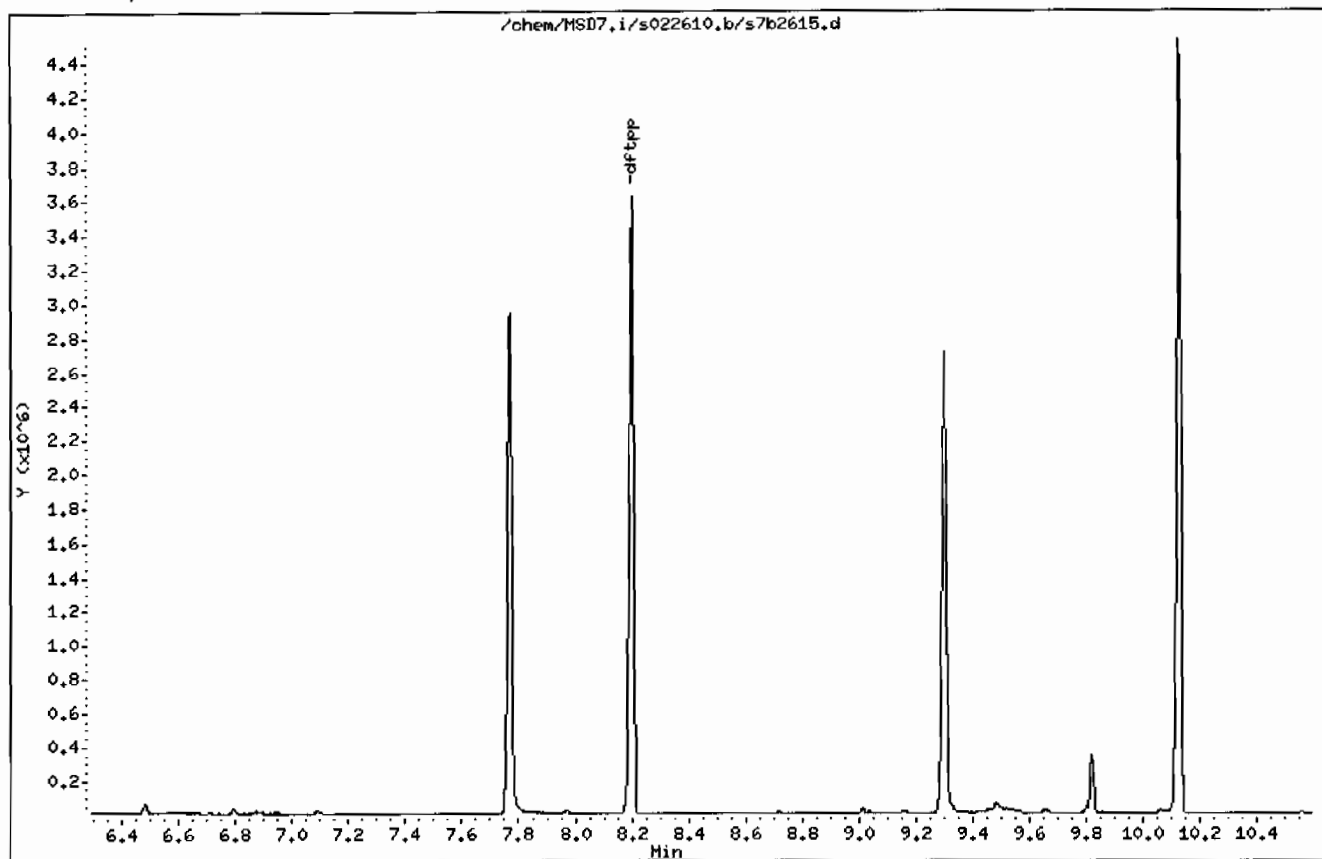
Instrument: MSD7.i

Sample Info: INBN100207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 26-FEB-2010 16:00

Client ID: DFTPP

Instrument: MSD7.i

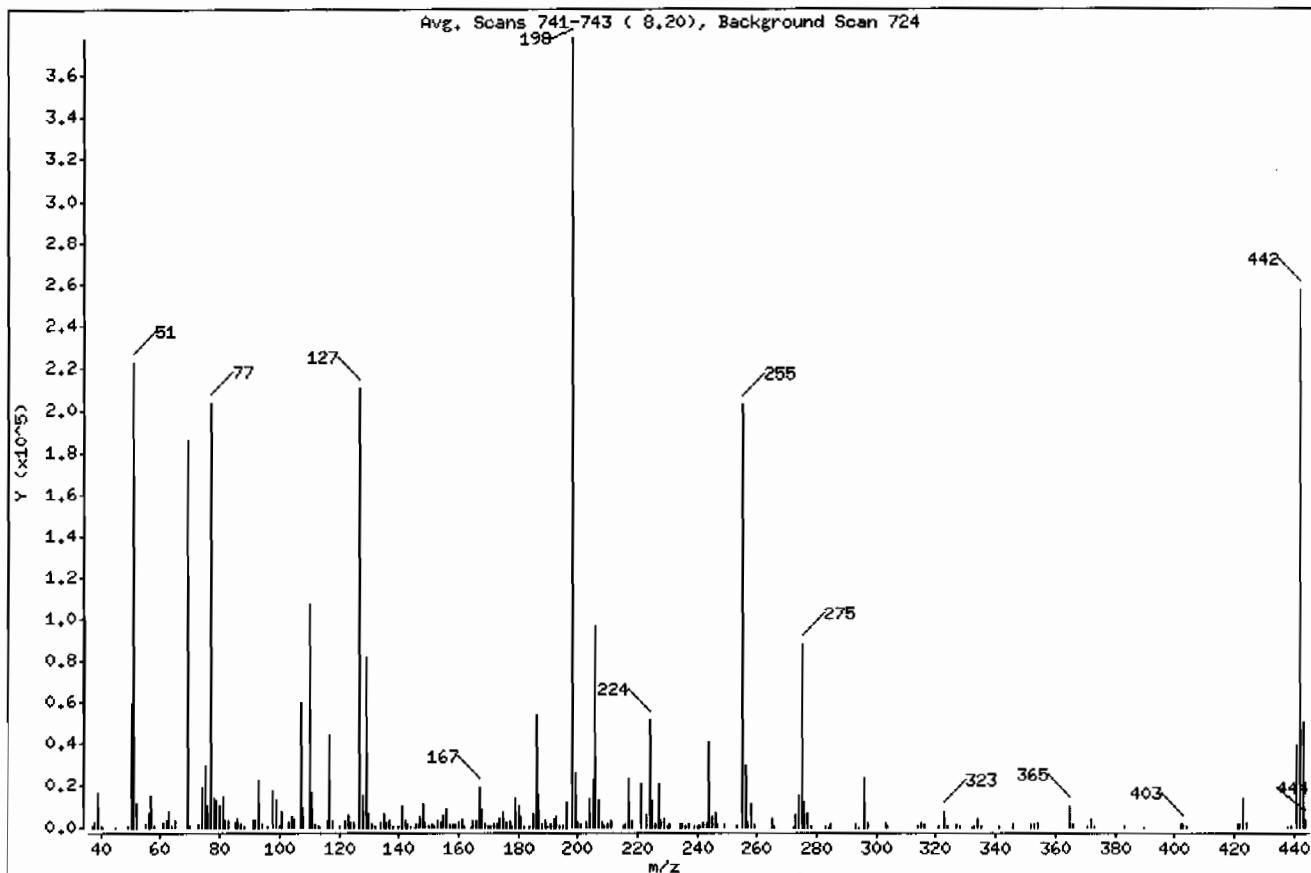
Sample Info: IWBNI00207-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0,20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	58.98
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.16
70	Less than 2.00% of mass 69	0.23 (0.48)
127	40.00 - 60.00% of mass 198	55.53
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.90
275	10.00 - 30.00% of mass 198	23.32
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 443	10.42
442	Greater than 40.00% of mass 198	68.13
443	17.00 - 23.00% of mass 442	13.23 (19.42)

Date : 26-FEB-2010 16:00

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: IWBH100207-01IDFTPP11SVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7b2615.d

Spectrum: Avg. Scans 741-743 (8,20), Background Scan 724

Location of Maximum: 198.00

Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1029	122.00	3738	185.00	6817	259.00	1573
38.00	2784	123.00	5796	186.00	54064	265.00	4325
39.00	16736	124.00	2600	187.00	15706	266.00	746
40.00	804	125.00	2612	188.00	1673	272.00	197
41.00	215	127.00	209728	189.00	3494	273.00	6106
45.00	168	128.00	15827	190.00	586	274.00	15839
49.00	1187	129.00	81240	191.00	1632	275.00	88080
50.00	59008	130.00	6686	192.00	4589	276.00	11832
51.00	222720	131.00	1427	193.00	4997	277.00	7181
52.00	11067	132.00	774	194.00	1040	278.00	1002
55.00	1479	134.00	2449	195.00	704	283.00	768
56.00	6807	135.00	6597	196.00	12441	284.00	411
57.00	14992	136.00	2742	198.00	377728	285.00	1383
58.00	682	137.00	3143	199.00	26056	293.00	1754
61.00	2681	138.00	765	200.00	2198	294.00	170
62.00	3163	140.00	1042	201.00	1902	296.00	23352
63.00	8062	141.00	10317	203.00	2941	297.00	3003
64.00	939	142.00	3584	204.00	13735	303.00	2912
65.00	3873	143.00	2145	205.00	22256	304.00	698
69.00	185664	144.00	648	206.00	96224	314.00	1230
70.00	883	145.00	345	207.00	12868	315.00	2658
73.00	1613	146.00	1896	208.00	3012	316.00	1427
74.00	18712	147.00	5046	209.00	1028	321.00	683
75.00	29592	148.00	11656	210.00	1417	323.00	8017
76.00	10277	149.00	2428	211.00	3685	324.00	1216
77.00	203520	150.00	602	215.00	982	327.00	1441
78.00	14043	151.00	1527	216.00	2051	328.00	748
79.00	13422	152.00	713	217.00	23848	332.00	363
80.00	10653	153.00	3096	218.00	3211	333.00	806
81.00	14622	154.00	2344	221.00	20792	334.00	4623
82.00	3466	155.00	5720	223.00	5862	335.00	1233
83.00	3303	156.00	8256	224.00	50920	341.00	795
85.00	2661	157.00	1579	225.00	13061	346.00	1522
86.00	3911	158.00	1721	226.00	1598	352.00	1965
87.00	1716	159.00	1403	227.00	20944	353.00	1542

Date : 26-FEB-2010 16:00

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: IWBNI00207-01IDFTPP11ISVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7b2615.d

Spectrum: Avg. Scans 741-743 (8,20), Background Scan 724

Location of Maximum: 198.00

Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	720	160.00	3002	228.00	3044	354.00	2372
91.00	3449	161.00	4728	229.00	4594	365.00	10014
92.00	3788	162.00	1233	230.00	617	366.00	1587
93.00	22184	164.00	176	231.00	1861	371.00	636
94.00	1680	165.00	3703	234.00	1383	372.00	3986
96.00	1049	166.00	3066	235.00	1556	373.00	896
98.00	17120	167.00	18856	236.00	1121	383.00	902
99.00	13353	168.00	9050	237.00	1622	390.00	167
100.00	1116	169.00	1603	239.00	883	402.00	1434
101.00	7543	170.00	665	240.00	677	403.00	2148
103.00	2685	171.00	809	241.00	1127	404.00	602
104.00	5030	172.00	1695	242.00	2573	421.00	1921
105.00	4545	173.00	2042	243.00	2934	422.00	1955
107.00	59544	174.00	4069	244.00	40392	423.00	14077
108.00	9676	175.00	7514	245.00	5448	424.00	2851
110.00	106720	176.00	2522	246.00	7235	438.00	613
111.00	16672	177.00	3771	247.00	1622	439.00	1021
112.00	2022	178.00	1302	249.00	1526	441.00	39344
113.00	647	179.00	14261	253.00	985	442.00	257344
116.00	3383	180.00	9998	255.00	202432	443.00	49984
117.00	44664	181.00	4790	256.00	29912	444.00	4586
118.00	3115	182.00	817	257.00	2724		
120.00	706	184.00	1225	258.00	11156		

Data File: /chem/MSD4.i/s030410a.b/s4c0409.d

Page 1

Date : 04-MAR-2010 15:36

Client ID: DFTPP

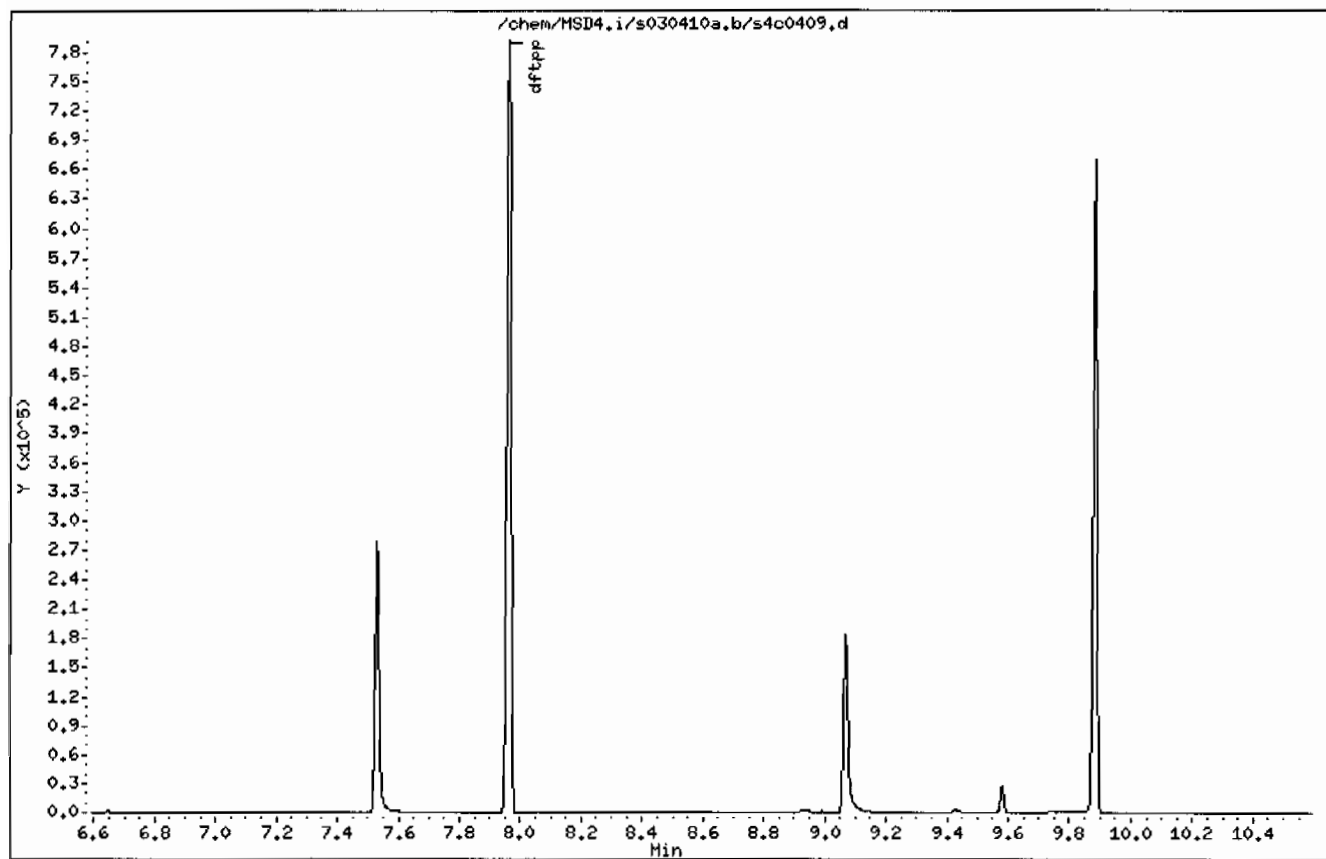
Instrument: MSD4.i

Sample Info: IWBNI00207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 04-MAR-2010 15:36

Client ID: DFTPP

Instrument: MSD4.i

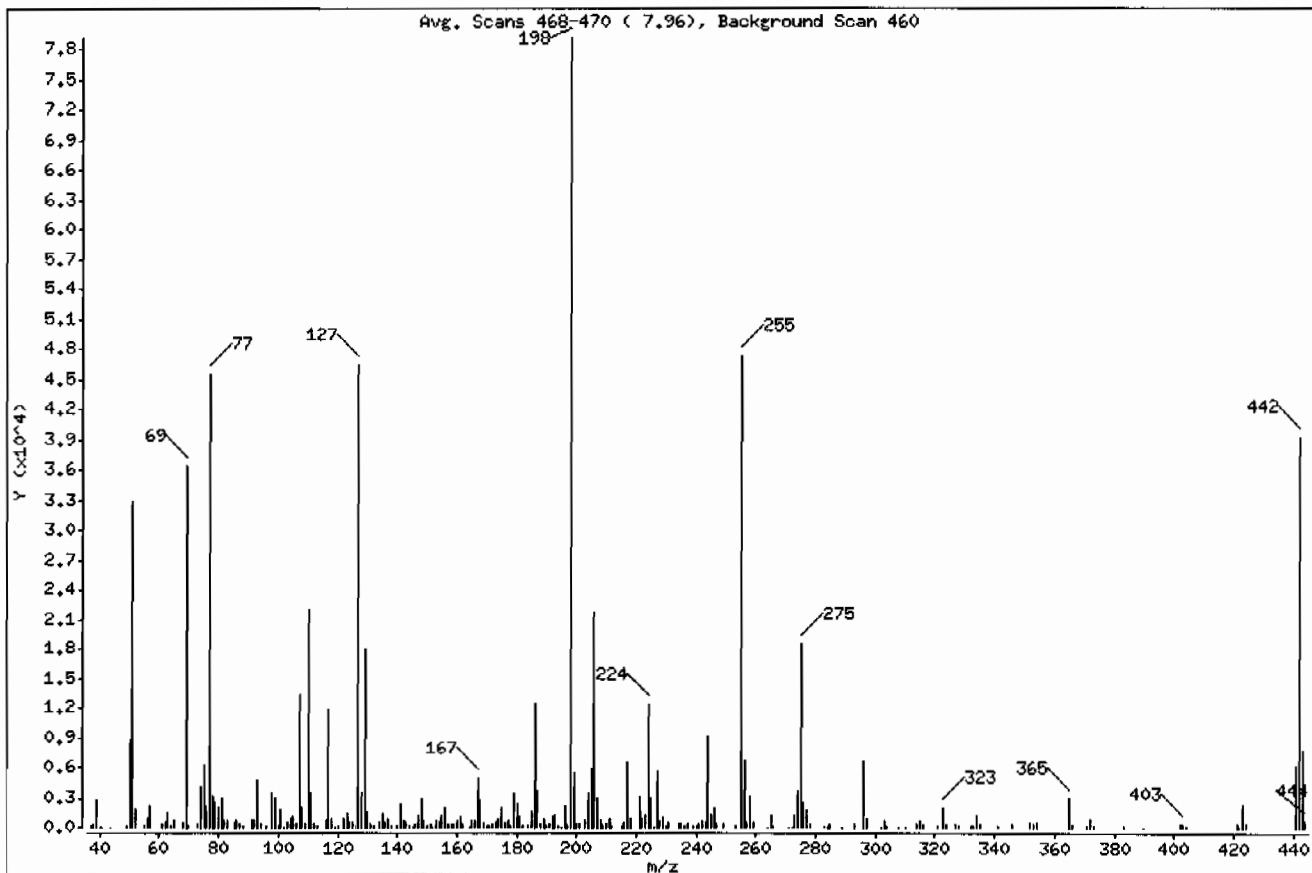
Sample Info: IWBNI00207-01IDFTPP11ISVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	41.66
68	Less than 2.00% of mass 69	0.60 (1.30)
69	Mass 69 relative abundance	45.95
70	Less than 2.00% of mass 69	0.27 (0.58)
127	40.00 - 60.00% of mass 198	58.51
197	Less than 1.00% of mass 198	0.28
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	23.49
365	Greater than 1.00% of mass 198	3.73
441	Present, but less than mass 443	7.71
442	Greater than 40.00% of mass 198	49.60
443	17.00 - 23.00% of mass 442	9.71 (19.58)

Date : 04-MAR-2010 15:36

Client ID: DFTTP

Instrument: MSD4.i

Sample Info: INBN100207-01IDFTTP11ISVHF11IDFTTP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4c0409.d
Spectrum: Avg. Scans 468-470 (7.96), Background Scan 460
Location of Maximum: 198.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	128	120.00	168	186.00	12416	264.00	34
38.00	438	122.00	819	187.00	3578	265.00	1332
39.00	2653	123.00	1381	188.00	323	266.00	212
40.00	76	124.00	636	189.00	824	271.00	75
41.00	84	125.00	518	190.00	133	272.00	43
44.00	26	126.00	154	191.00	325	273.00	1303
49.00	183	127.00	46288	192.00	1125	274.00	3607
50.00	8716	128.00	3481	193.00	1360	275.00	18576
51.00	32952	129.00	18048	194.00	256	276.00	2579
52.00	1778	130.00	1563	195.00	35	277.00	1803
55.00	161	131.00	316	196.00	2109	278.00	309
56.00	865	132.00	163	197.00	221	283.00	178
57.00	2244	134.00	508	198.00	79104	284.00	132
61.00	406	135.00	1466	199.00	5427	285.00	297
62.00	528	136.00	564	200.00	425	289.00	34
63.00	1461	137.00	820	201.00	339	293.00	408
64.00	197	138.00	164	203.00	673	296.00	6619
65.00	686	140.00	184	204.00	3455	297.00	947
68.00	471	141.00	2336	205.00	5773	302.00	75
69.00	36344	142.00	778	206.00	21720	303.00	678
70.00	212	143.00	558	207.00	2850	304.00	225
73.00	318	144.00	120	208.00	751	308.00	74
74.00	4068	145.00	72	209.00	229	310.00	38
75.00	6159	146.00	416	210.00	342	314.00	327
76.00	2191	147.00	1199	211.00	938	315.00	709
77.00	45384	148.00	2982	212.00	130	316.00	391
78.00	3024	149.00	645	215.00	261	321.00	201
79.00	2486	150.00	153	216.00	493	323.00	1942
80.00	2084	151.00	287	217.00	6588	324.00	287
81.00	2965	152.00	42	218.00	830	327.00	396
82.00	726	153.00	800	221.00	3027	328.00	172
83.00	692	154.00	528	222.00	874	332.00	163
85.00	533	155.00	1257	223.00	1363	333.00	178
86.00	778	156.00	1937	224.00	12379	334.00	1330
87.00	385	157.00	385	225.00	2966	335.00	307

Date : 04-MAR-2010 15:36

Client ID: DFTPP

Instrument: HSD4.i

Sample Info: IWBH100207-01IDFTPP11ISVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4c0409.d

Spectrum: Avg. Scans 468-470 (7.96), Background Scan 460

Location of Maximum: 198.00

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y

88.00	125	158.00	387	226.00	78	341.00	214
91.00	637	159.00	297	227.00	5727	346.00	419
92.00	675	160.00	753	228.00	808	352.00	563
93.00	4799	161.00	1133	229.00	1085	353.00	340
94.00	365	162.00	362	230.00	137	354.00	530

96.00	224	164.00	84	231.00	500	365.00	2953
98.00	3540	165.00	799	234.00	359	366.00	422
99.00	2828	166.00	664	235.00	347	371.00	144
100.00	232	167.00	4851	236.00	253	372.00	899
101.00	1748	168.00	2657	237.00	382	373.00	174

102.00	33	169.00	484	239.00	195	383.00	219
103.00	482	170.00	137	240.00	144	390.00	34
104.00	980	171.00	187	241.00	337	402.00	332
105.00	1012	172.00	372	242.00	651	403.00	419
106.00	301	173.00	559	243.00	517	404.00	157

107.00	13325	174.00	964	244.00	9079	421.00	358
108.00	2052	175.00	1930	245.00	1298	422.00	77
109.00	319	176.00	455	246.00	1992	423.00	2275
110.00	22000	177.00	777	247.00	407	424.00	446
111.00	3537	178.00	257	249.00	318	441.00	6101

112.00	355	179.00	3504	253.00	174	442.00	39232
113.00	142	180.00	2394	255.00	47328	443.00	7684
116.00	654	181.00	1155	256.00	6808	444.00	772
117.00	11817	182.00	206	257.00	502		
118.00	863	184.00	239	258.00	3078		

119.00	33	185.00	1716	259.00	521		

Data File: /chem/MSD7.i/s030810.b/s7c0803.d

Page 1

Date : 08-MAR-2010 10:25

Client ID: DFTPP

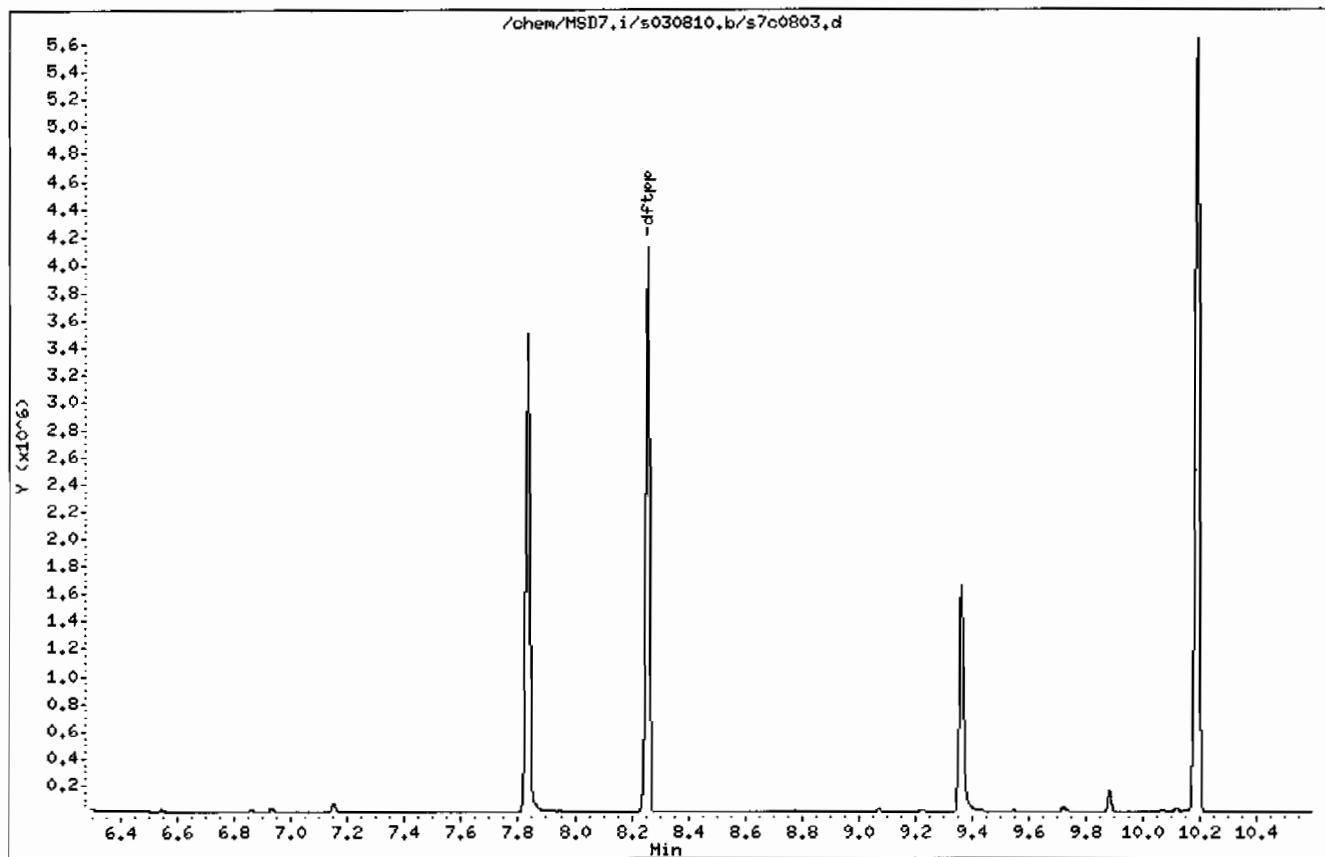
Instrument: MSD7.i

Sample Info: INBN100207-01|DFTPP|1|SVHF11|DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 08-MAR-2010 10:25

Client ID: DFTPP

Instrument: MSD7.1

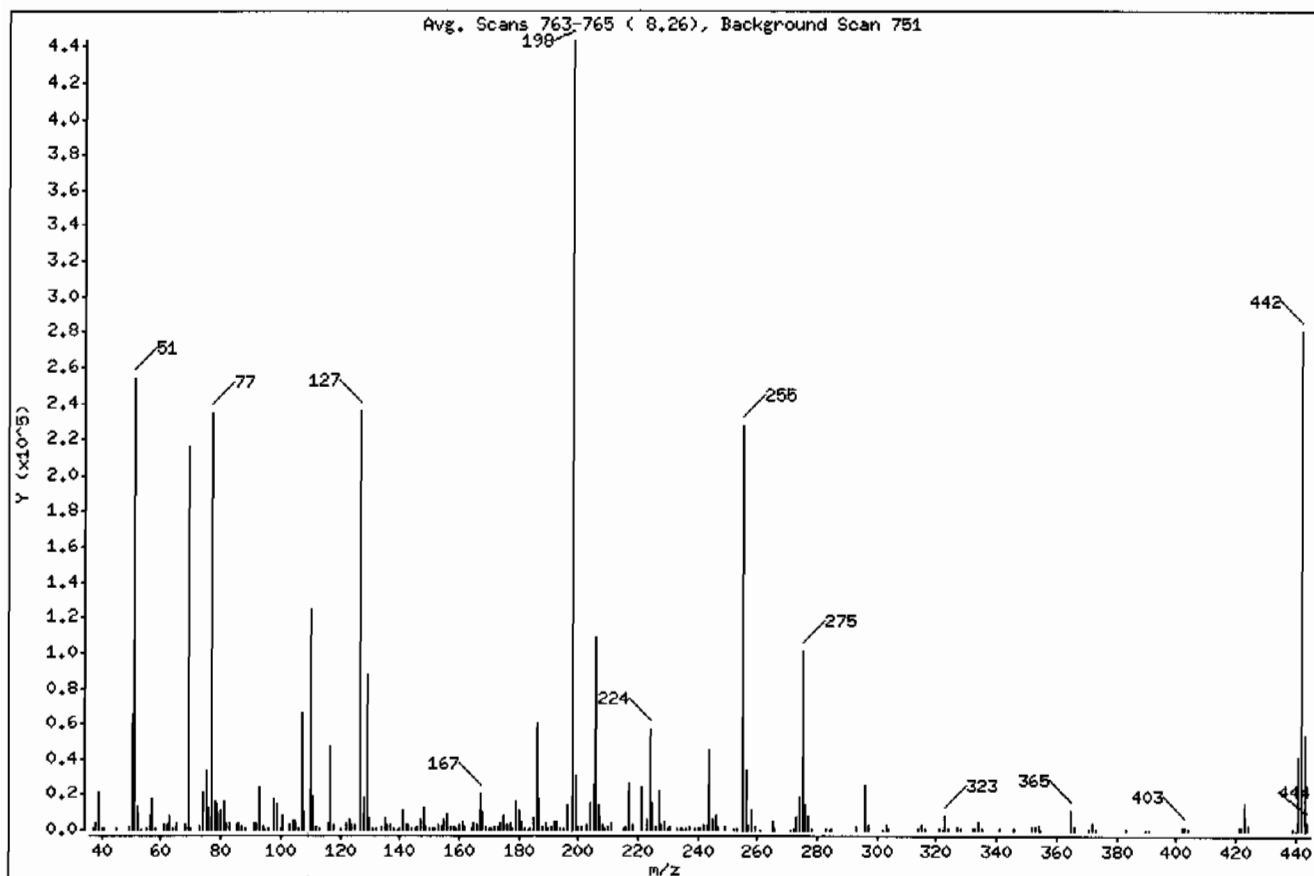
Sample Info: IWBNI00207-01IDFTPP11SVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	57.27
68	Less than 2.00% of mass 69	0.67 (1.38)
69	Mass 69 relative abundance	48.78
70	Less than 2.00% of mass 69	0.28 (0.57)
127	40.00 - 60.00% of mass 198	53.21
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.85
275	10.00 - 30.00% of mass 198	22.66
365	Greater than 1.00% of mass 198	2.42
441	Present, but less than mass 443	9.48
442	Greater than 40.00% of mass 198	63.27
443	17.00 - 23.00% of mass 442	12.25 (19.36)

Date : 08-MAR-2010 10:25

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: INBN100207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7c0803.d

Spectrum: Avg. Scans 763-765 (8.26), Background Scan 751

Location of Maximum: 198.00

Number of points: 243

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1169	120.00	840	185.00	7499	261.00	168
38.00	3618	122.00	4361	186.00	60080	265.00	4805
39.00	21272	123.00	6520	187.00	17456	266.00	869
40.00	1058	124.00	2851	188.00	1688	271.00	168
41.00	869	125.00	2988	189.00	3768	272.00	721
45.00	580	127.00	235968	190.00	577	273.00	6680
49.00	1989	128.00	17968	191.00	1756	274.00	18080
50.00	65544	129.00	87832	192.00	5013	275.00	100480
51.00	253952	130.00	7146	193.00	5220	276.00	14154
52.00	12943	131.00	1483	194.00	1148	277.00	7727
53.00	348	132.00	813	195.00	535	278.00	1236
55.00	1346	134.00	2493	196.00	14191	283.00	921
56.00	8036	135.00	7198	198.00	443456	284.00	432
57.00	17432	136.00	2618	199.00	30360	285.00	1411
58.00	777	137.00	3520	200.00	2401	293.00	1722
61.00	2806	138.00	871	201.00	2326	296.00	25496
62.00	3243	139.00	361	203.00	3133	297.00	3170
63.00	8414	140.00	1181	204.00	15339	302.00	174
64.00	1253	141.00	11317	205.00	25328	303.00	3078
65.00	4585	142.00	3502	206.00	108768	304.00	663
68.00	2990	143.00	2654	207.00	14692	314.00	1294
69.00	216320	144.00	627	208.00	3451	315.00	2911
70.00	1223	145.00	580	209.00	1155	316.00	1502
73.00	1924	146.00	2181	210.00	1673	321.00	921
74.00	21104	147.00	5747	211.00	3780	322.00	418
75.00	33688	148.00	12350	215.00	1295	323.00	8485
76.00	11910	149.00	2547	216.00	2356	324.00	1524
77.00	234496	150.00	794	217.00	26944	327.00	1531
78.00	16054	151.00	1403	218.00	3380	328.00	793
79.00	14380	152.00	929	221.00	24360	332.00	693
80.00	11673	153.00	3487	223.00	6478	333.00	855
81.00	15828	154.00	2452	224.00	56600	334.00	5310
82.00	3874	155.00	6053	225.00	15066	335.00	1192
83.00	3695	156.00	9230	226.00	1687	341.00	926
85.00	2688	157.00	2054	227.00	22912	346.00	1398

Date : 08-MAR-2010 10:25

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: INBN100207-01IDFTPP11ISVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7c0803.d

Spectrum: Avg. Scans 763-765 (8.26), Background Scan 751

Location of Maximum: 198.00

Number of points: 243

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	4275	158.00	1919	228.00	3111	352.00	2272
87.00	2130	159.00	1385	229.00	4954	353.00	1677
88.00	767	160.00	3323	230.00	673	354.00	2763
91.00	3958	161.00	5065	231.00	2136	355.00	370
92.00	4091	162.00	1572	233.00	542	365.00	10712
93.00	24696	164.00	616	234.00	1387	366.00	1824
94.00	1837	165.00	4027	235.00	1512	371.00	673
95.00	359	166.00	3170	236.00	1103	372.00	4237
96.00	1238	167.00	20800	237.00	2076	373.00	1221
98.00	17784	168.00	9964	239.00	832	383.00	955
99.00	14211	169.00	1696	240.00	752	390.00	343
100.00	1311	170.00	761	241.00	1390	391.00	390
101.00	8520	171.00	1057	242.00	3182	402.00	1689
103.00	2858	172.00	2069	243.00	3465	403.00	2259
104.00	5379	173.00	2447	244.00	44856	404.00	830
105.00	5390	174.00	4485	245.00	6602	421.00	2072
106.00	617	175.00	8565	246.00	8514	422.00	2121
107.00	65936	176.00	3437	247.00	1706	423.00	15340
108.00	10364	177.00	4279	249.00	1823	424.00	3097
110.00	124880	178.00	1417	252.00	564	439.00	989
111.00	19016	179.00	16061	253.00	1122	440.00	285
112.00	2479	180.00	11220	255.00	227648	441.00	42064
113.00	695	181.00	5209	256.00	34088	442.00	280576
116.00	3841	182.00	844	257.00	2601	443.00	54320
117.00	47168	183.00	172	258.00	11087	444.00	5073
118.00	3427	184.00	1350	259.00	1701		

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905

Matrix: SOIL

Lab Sample ID: 1202050556

Client Sample: QC for batch 956255

Client: LANL010

Project: QC

Client ID: MB for batch 956255

Method: SW846 8270C

SOP Ref: GL-OA-E-009

Batch ID: 956285

Inst: MSD4.1

Dilution: 1

Run Date: 03/04/2010 16:43

Analyst: JMB3

Inj. Vol: .5 uL

Prep Date: 02/23/2010 10:34

Aliquot: 30 g

Final Volume: 1 mL

Data File: s4c0412-1.d

Column: J&W DB-5MS

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQI/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	333	ug/kg	66.7	333
108-95-2	Phenol	U	333	ug/kg	66.7	333
95-57-8	2-Chlorophenol	U	333	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene	U	333	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine	U	333	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol	U	333	ug/kg	66.7	333
83-32-9	Acenaphthene	U	33.3	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene	U	333	ug/kg	33.3	333
100-02-7	4-Nitrophenol	U	333	ug/kg	110	333
87-86-5	Pentachlorophenol	U	333	ug/kg	83.3	333
129-00-0	Pyrene	U	33.3	ug/kg	10.0	33.3
110-86-1	Pyridine	U	333	ug/kg	66.7	333
62-53-3	Aniline	U	333	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether	U	333	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene	U	333	ug/kg	66.7	333
100-51-6	Benzyl alcohol	U	333	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene	U	333	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether	U	333	ug/kg	66.7	333
95-48-7	o-Cresol	U	333	ug/kg	66.7	333
65794-96-9	m,p-Cresols	U	333	ug/kg	100	333
67-72-1	Hexachloroethane	U	333	ug/kg	66.7	333
98-95-3	Nitrobenzene	U	333	ug/kg	66.7	333
78-59-1	Isophorone	U	333	ug/kg	66.7	333
88-75-5	2-Nitrophenol	U	333	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol	U	333	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane	U	333	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol	U	333	ug/kg	66.7	333
65-85-0	Benzoic acid	U	667	ug/kg	167	667
91-20-3	Naphthalene	U	33.3	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline	U	333	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene	U	333	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene	U	33.3	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene	U	333	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol	U	333	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol	U	333	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene	U	33.3	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline	U	333	ug/kg	66.7	333
99-09-2	3-Nitroaniline	U	333	ug/kg	66.7	333

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905	Matrix: SOIL
Lab Sample ID: 1202050556	
Client Sample: QC for batch 956255	Client: LANL010
Client ID: MB for batch 956255	Method: SW846 8270C
Batch ID: 956285	Inst: MSD4.I
Run Date: 03/04/2010 16:43	Analyst: JMB3
Prep Date: 02/23/2010 10:34	Aliquot: 30 g
Data File: s4c0412-1.d	Column: J&W DB-5MS
	Project: QC
	SOP Ref: GL-OA-E-009
	Dilution: 1
	Inj. Vol: .5 uL
	Final Volume: 1 mL
	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	333	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene	U	333	ug/kg	33.3	333
208-96-8	Acenaphthylene	U	33.3	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol	U	667	ug/kg	127	667
132-64-9	Dibenzofuran	U	333	ug/kg	66.7	333
84-66-2	Diethylphthalate	U	333	ug/kg	66.7	333
86-73-7	Fluorene	U	33.3	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether	U	333	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol	U	333	ug/kg	66.7	333
100-01-6	4-Nitroaniline	U	333	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	333	ug/kg	66.7	333
122-66-7	Azobenzene	U	333	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	333	ug/kg	66.7	333
118-74-1	Hexachlorobenzene	U	333	ug/kg	66.7	333
85-01-8	Phenanthrene	U	33.3	ug/kg	10.0	33.3
120-12-7	Anthracene	U	33.3	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate	U	333	ug/kg	66.7	333
206-44-0	Fluoranthene	U	33.3	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate	U	333	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene	U	33.3	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine	U	333	ug/kg	100	333
218-01-9	Chrysene	U	33.3	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	333	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate	U	333	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene	U	33.3	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene	U	33.3	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene	U	33.3	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	33.3	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene	U	33.3	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene	U	33.3	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene	U	333	ug/kg	66.7	333

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.87	966	ug/kg		J

Data File: /chem/MSD4.i/s030410a.b/s4c0412-1.d
Report Date: 05-Mar-2010 08:04

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Data file : /chem/MSD4.i/s030410a.b/s4c0412-1.d
Lab Smp Id: 1202050556 Client Smp ID: SBLK01
Inj Date : 04-MAR-2010 16:43
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202050556|956285|1|SVM|1|MB
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829	(1.000)	135876	40.0000	
* 29 Naphthalene-d8	136	4.684	4.690	(1.000)	503308	40.0000	
* 46 Acenaphthene-d10	164	5.936	5.941	(1.000)	294729	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936	(1.000)	519093	40.0000	
* 91 Chrysene-d12	240	8.605	8.610	(1.000)	468013	40.0000	
* 98 Perylene-d12	264	10.060	10.070	(1.000)	368391	40.0000	
\$ 3 2-Fluorophenol	112	3.031	3.021	(0.793)	238803	75.5545	2520
\$ 5 Phenol-d5	99	3.540	3.545	(0.926)	282404	71.6005	2390
\$ 20 Nitrobenzene-d5	82	4.181	4.192	(0.893)	106546	29.6938	990
\$ 39 2-Fluorobiphenyl	172	5.428	5.433	(0.914)	253506	32.0292	1070
\$ 60 2,4,6-Tribromophenol	329	6.476	6.481	(1.091)	72832	84.0716	2800
\$ 81 p-Terphenyl-d14	244	7.861	7.861	(0.914)	310834	41.6339	1390

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Data file : /chem/MSD4.i/s030410a.b/s4c0412-1.d
 Lab Smp Id: 1202050556 Client Smp ID: SBLK01
 Inj Date : 04-MAR-2010 16:43
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |1202050556|956285|1|SVM|1|MB
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
 Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
 Als bottle: 4 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

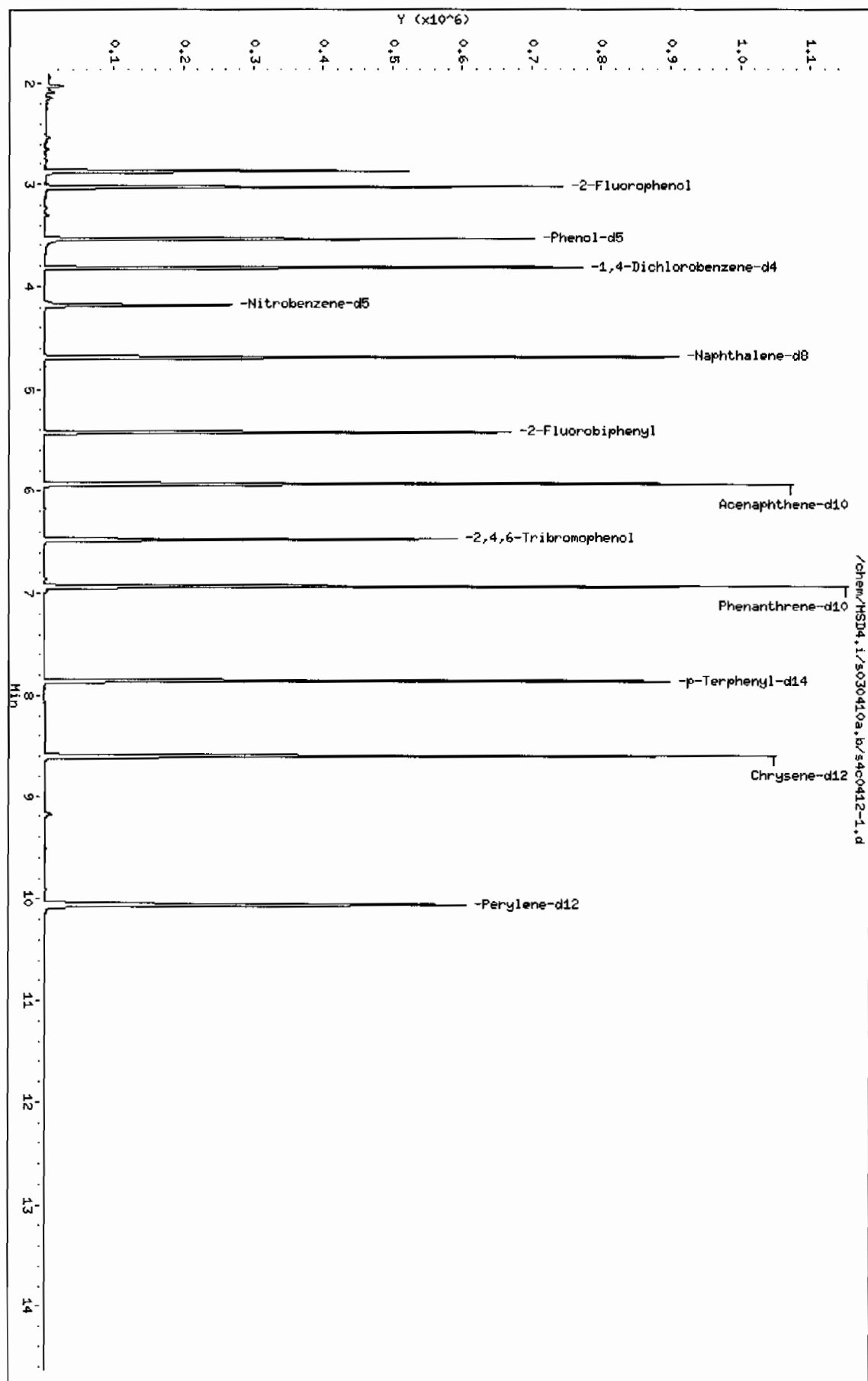
ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.823	829804	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate				CAS #:			
2.871	601093	28.9751564	966	0		0	10

Data File: /chem/HSD4.i/s030410a.b/s400412-1.d
Date : 04-MAR-2010 16:43
Client ID: SRLK01
Sample Info: 1120205056195628511SVH11INB
Volume Injected (uL): 0.5
Column phase: JMW DB-5MS

Instrument: HSD4.1
Operator: JMB3
Column diameter: 0.20

Page 1



Date : 04-MAR-2010 16:43

Client ID: SBLK01

Instrument: MSD4.i

Sample Info: I12020505561956285111SVH111HB

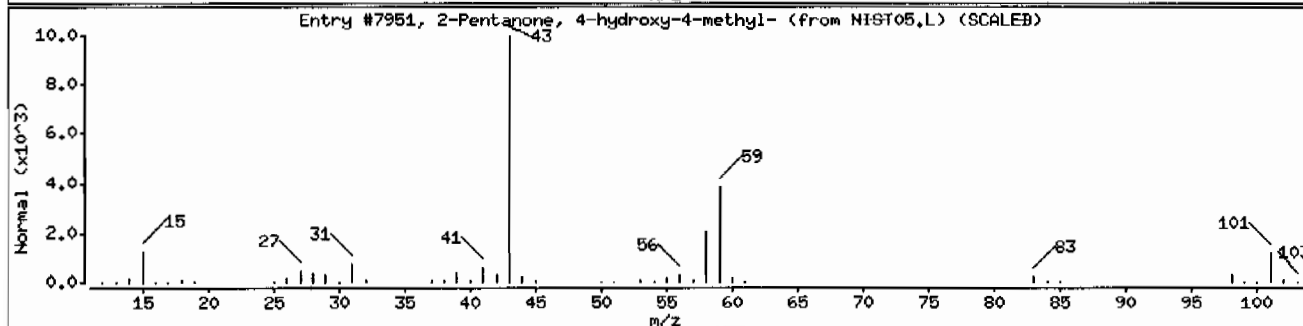
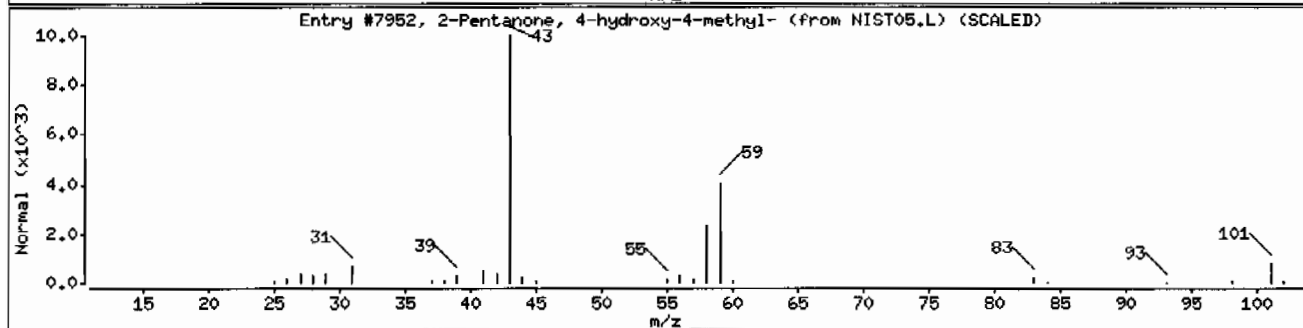
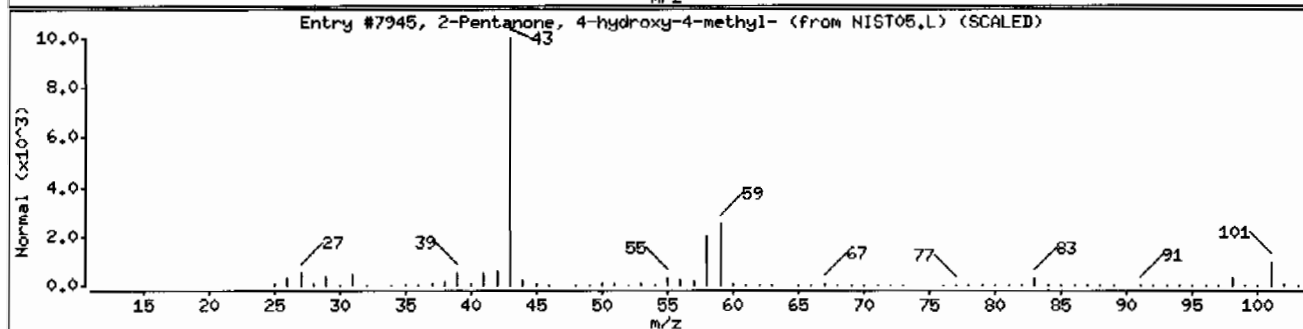
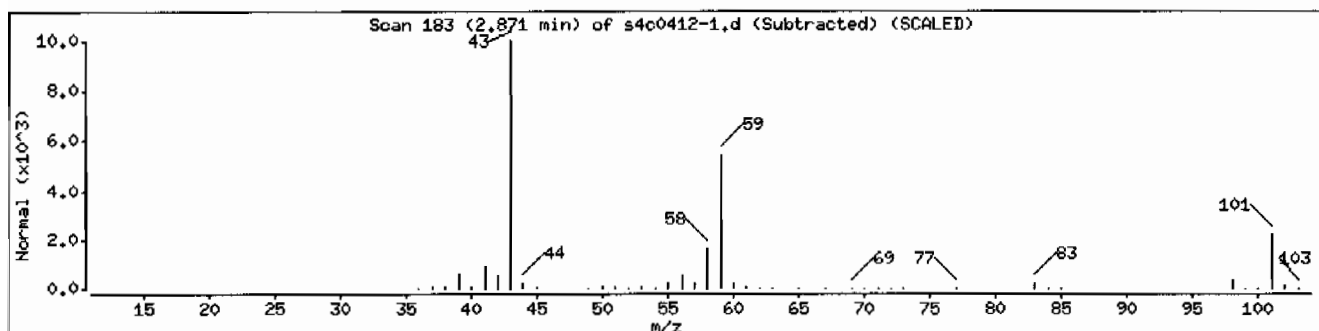
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	7945	59	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905		Matrix: SOIL
Lab Sample ID: 1202063247		
Client Sample: QC for batch 961918	Client: LANL010	Project: QC
Client ID: MB for batch 961918	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 961919	Inst: MSD7.I	Dilution: 1
Run Date: 03/08/2010 12:07	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 03/07/2010 12:11	Aliquot: 30 g	Final Volume: 1 mL
Data File: s7c0808-1.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	333	ug/kg	66.7	333
108-95-2	Phenol	U	333	ug/kg	66.7	333
95-57-8	2-Chlorophenol	U	333	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene	U	333	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine	U	333	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol	U	333	ug/kg	66.7	333
83-32-9	Acenaphthene	U	33.3	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene	U	333	ug/kg	33.3	333
100-02-7	4-Nitrophenol	U	333	ug/kg	110	333
87-86-5	Pentachlorophenol	U	333	ug/kg	83.3	333
129-00-0	Pyrene	U	33.3	ug/kg	10.0	33.3
110-86-1	Pyridine	U	333	ug/kg	66.7	333
62-53-3	Aniline	U	333	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether	U	333	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene	U	333	ug/kg	66.7	333
100-51-6	Benzyl alcohol	U	333	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene	U	333	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether	U	333	ug/kg	66.7	333
95-48-7	o-Cresol	U	333	ug/kg	66.7	333
65794-96-9	m,p-Cresols	U	333	ug/kg	100	333
67-72-1	Hexachloroethane	U	333	ug/kg	66.7	333
98-95-3	Nitrobenzene	U	333	ug/kg	66.7	333
78-59-1	Isophorone	U	333	ug/kg	66.7	333
88-75-5	2-Nitrophenol	U	333	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol	U	333	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane	U	333	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol	U	333	ug/kg	66.7	333
65-85-0	Benzoic acid	U	667	ug/kg	167	667
91-20-3	Naphthalene	U	33.3	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline	U	333	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene	U	333	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene	U	33.3	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene	U	333	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol	U	333	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol	U	333	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene	U	33.3	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline	U	333	ug/kg	66.7	333
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	333	ug/kg	66.7	333

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 1202063247
Client Sample: QC for batch 961918
Client ID: MB for batch 961918
Batch ID: 961919
Run Date: 03/08/2010 12:07
Prep Date: 03/07/2010 12:11
Data File: s7c0808-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: SOIL
Project: QC
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	333	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene	U	333	ug/kg	33.3	333
208-96-8	Acenaphthylene	U	33.3	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol	U	667	ug/kg	127	667
132-64-9	Dibenzofuran	U	333	ug/kg	66.7	333
84-66-2	Diethylphthalate	U	333	ug/kg	66.7	333
86-73-7	Fluorene	U	33.3	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether	U	333	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol	U	333	ug/kg	66.7	333
100-01-6	4-Nitroaniline	U	333	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	333	ug/kg	66.7	333
122-66-7	Azobenzene	U	333	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	333	ug/kg	66.7	333
118-74-1	Hexachlorobenzene	U	333	ug/kg	66.7	333
85-01-8	Phenanthrene	U	33.3	ug/kg	10.0	33.3
120-12-7	Anthracene	U	33.3	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate	U	333	ug/kg	66.7	333
206-44-0	Fluoranthene	U	33.3	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate	U	333	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene	U	33.3	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine	U	333	ug/kg	100	333
218-01-9	Chrysene	U	33.3	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	333	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate	U	333	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene	U	33.3	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene	U	33.3	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene	U	33.3	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	33.3	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene	U	33.3	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene	U	33.3	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene	U	333	ug/kg	66.7	333

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.17	1930	ug/kg		J
	Unknown Aldol Condensate	3.04	204	ug/kg		J

Data File: /chem/MSD7.i/s030810.b/s7c0808.d
Report Date: 08-Mar-2010 16:10

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Data file : /chem/MSD7.i/s030810.b/s7c0808.d
Lab Smp Id: 1202063247 Client Smp ID: SBLK02
Inj Date : 08-MAR-2010 12:07
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |1202063247|961919|1|SVM|1|MB
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.000	4.004	(1.000)	462742	40.0000	
* 29 Naphthalene-d8	136	4.867	4.876	(1.000)	1717734	40.0000	
* 46 Acenaphthene-d10	164	6.123	6.133	(1.000)	944353	40.0000	
* 67 Phenanthrene-d10	188	7.303	7.312	(1.000)	1720331	40.0000	
* 91 Chrysene-d12	240	9.720	9.730	(1.000)	1593510	40.0000	
* 98 Perylene-d12	264	11.444	11.454	(1.000)	1334549	40.0000	
\$ 3 2-Fluorophenol	112	3.191	3.191	(0.798)	896214	74.5123	2480
\$ 5 Phenol-d5	99	3.706	3.715	(0.927)	1097993	72.8103	2430
\$ 20 Nitrobenzene-d5	82	4.356	4.370	(0.895)	511137	39.4527	1320
\$ 39 2-Fluorobiphenyl	172	5.608	5.613	(0.916)	1024882	43.5474	1450
\$ 60 2,4,6-Tribromophenol	329	6.725	6.735	(1.098)	244186	89.4454	2980
\$ 81 p-Terphenyl-d14	244	8.685	8.690	(0.893)	1190594	41.7049	1390

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Data file : /chem/MSD7.i/s030810.b/s7c0808.d
 Lab Smp Id: 1202063247 Client Smp ID: SBLK02
 Inj Date : 08-MAR-2010 12:07
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |1202063247|961919|1|SVM|1|MB
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
 Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.000	2817534	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Unknown				CAS #:			
2.165	4077562	57.8883619	1930	0		0	10
Unknown Aldol Condensate				CAS #:			
3.037	431643	6.12794977	204	0		0	10

Data File: /chem/MSD7.i/s030810.b/s700808.d

Date: 08-MAR-2010 12:07

Client ID: SBLK02

Sample Info: 11202063247196191911|SVH111MB

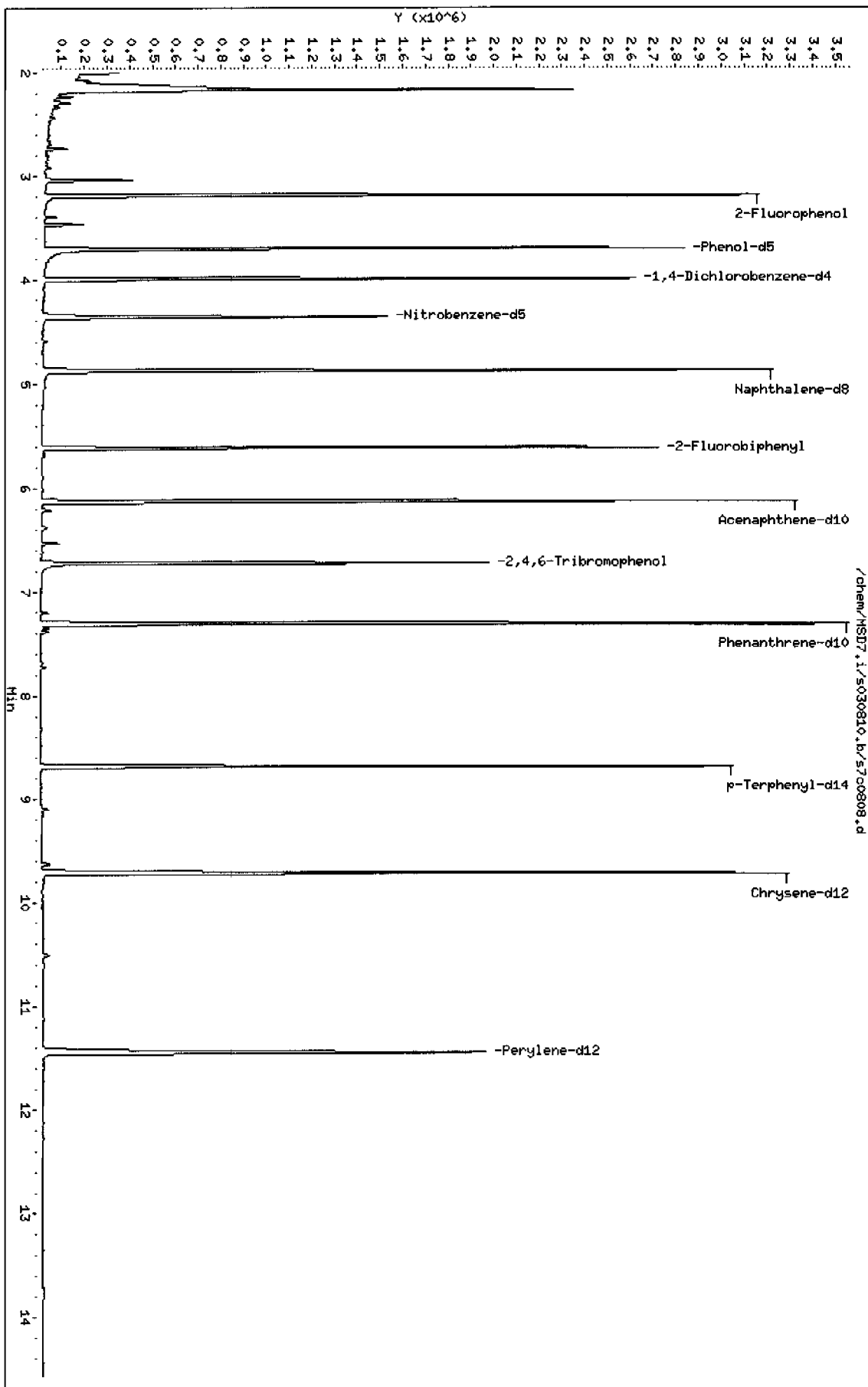
Volume Injected (uL): 0.5

Column phase: J&W DB-SMS

Instrument: MSD7.i

Operator: JHB3

Column diameter: 0.20



Date : 08-MAR-2010 12:07

Client ID: SBLK02

Instrument: MSD7.i

Sample Info: I12020632471961911SVH11MB

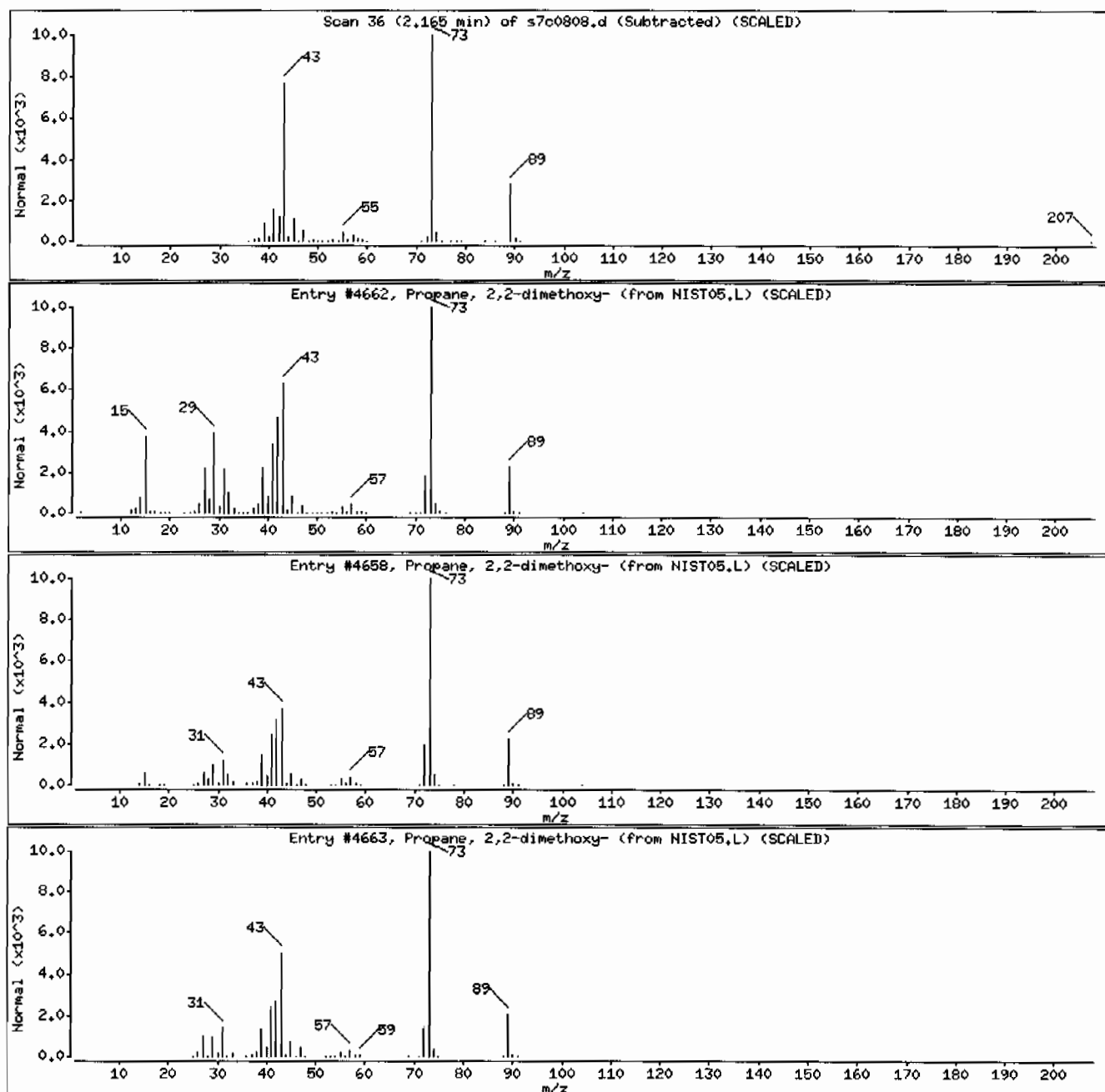
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	50	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4658	36	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	33	C5H12O2	104



Date : 08-MAR-2010 12:07

Client ID: SBLK02

Instrument: MSD7.i

Sample Info: I1202063247196191911SVMI1IMB

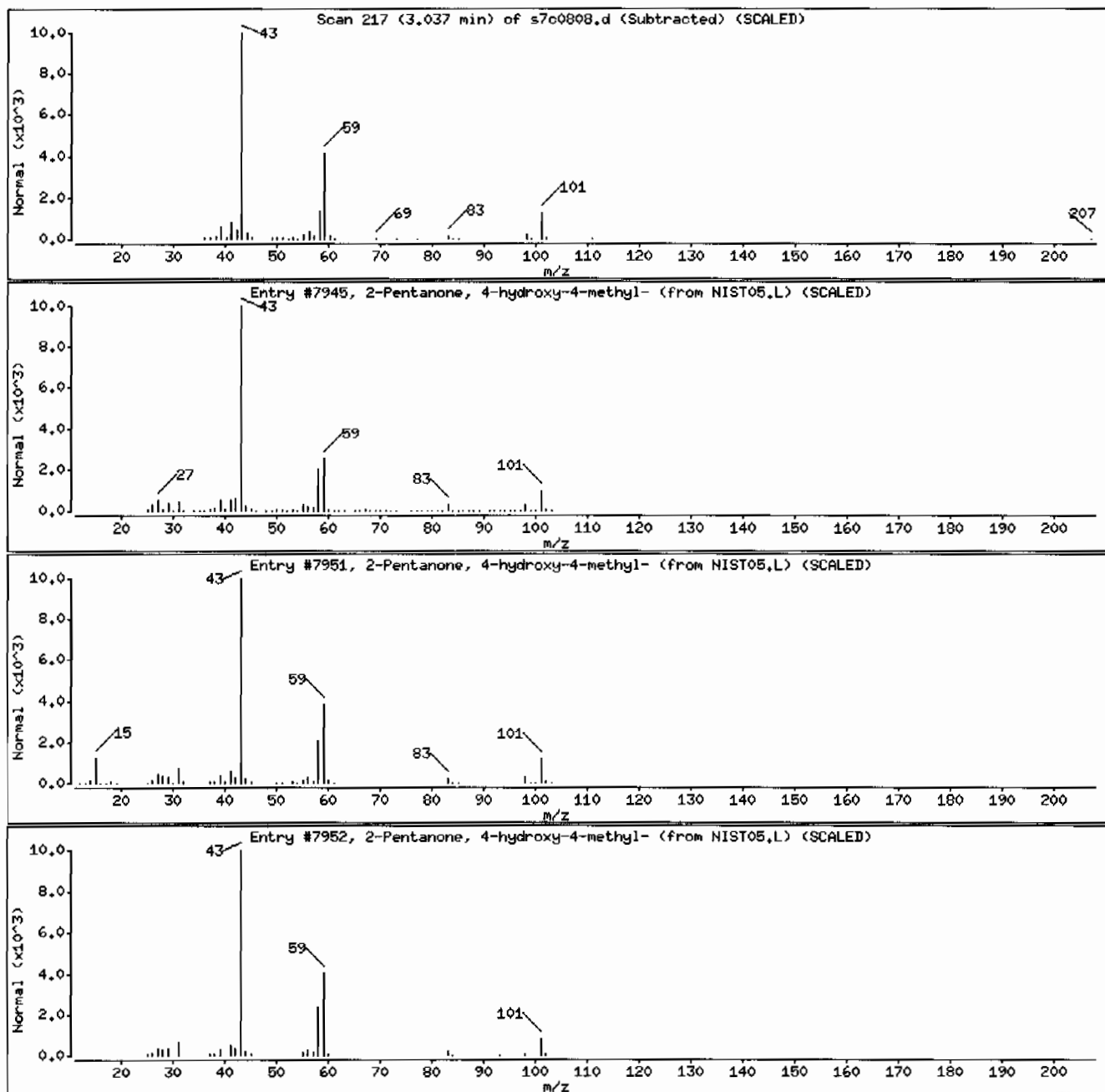
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

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	7945	64	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 1202050557

Client Sample: QC for batch 956255
Client ID: LCS for batch 956255
Batch ID: 956285
Run Date: 03/04/2010 17:06
Prep Date: 02/23/2010 10:34
Data File: s4c0413-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: SOIL
Project: QC
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine		826	ug/kg	66.7	333
108-95-2	Phenol		1170	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1020	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		995	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1260	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		940	ug/kg	66.7	333
83-32-9	Acenaphthene		1110	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		982	ug/kg	33.3	333
100-02-7	4-Nitrophenol		706	ug/kg	110	333
87-86-5	Pentachlorophenol		925	ug/kg	83.3	333
129-00-0	Pyrene		1110	ug/kg	10.0	33.3
110-86-1	Pyridine		774	ug/kg	66.7	333
62-53-3	Aniline		1030	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		1060	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		926	ug/kg	66.7	333
100-51-6	Benzyl alcohol		533	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1010	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		1060	ug/kg	66.7	333
95-48-7	o-Cresol		1170	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1290	ug/kg	100	333
67-72-1	Hexachloroethane		925	ug/kg	66.7	333
98-95-3	Nitrobenzene		1060	ug/kg	66.7	333
78-59-1	Isophorone		1050	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1030	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1140	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1050	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		966	ug/kg	66.7	333
65-85-0	Benzoic acid		1880	ug/kg	167	667
91-20-3	Naphthalene		1130	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		1080	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		999	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1110	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		675	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1160	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		923	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1060	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		983	ug/kg	66.7	333
	o-Nitroaniline					
99-09-2	3-Nitroaniline		967	ug/kg	66.7	333

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 1202050557
Client Sample: QC for batch 956255
Client ID: LCS for batch 956255
Batch ID: 956285
Run Date: 03/04/2010 17:06
Prep Date: 02/23/2010 10:34
Data File: s4c0413-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: SOIL
Project: QC
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline		1100	ug/kg	66.7	333
606-20-2	Dimethylphthalate		930	ug/kg	33.3	333
208-96-8	2,6-Dinitrotoluene		1140	ug/kg	10.0	33.3
51-28-5	Acenaphthylene		961	ug/kg	127	667
132-64-9	2,4-Dinitrophenol		1100	ug/kg	66.7	333
84-66-2	Dibenzofuran		1170	ug/kg	66.7	333
86-73-7	Diethylphthalate		1210	ug/kg	10.0	33.3
7005-72-3	Fluorene		1120	ug/kg	66.7	333
534-52-1	4-Chlorophenylphenylether		917	ug/kg	66.7	333
100-01-6	2-Methyl-4,6-dinitrophenol		1370	ug/kg	100	333
122-39-4	4-Nitroaniline		1140	ug/kg	66.7	333
122-66-7	<i>p</i> -Nitroaniline		1150	ug/kg	66.7	333
101-55-3	Diphenylamine		1030	ug/kg	66.7	333
118-74-1	Azobenzene		1050	ug/kg	66.7	333
85-01-8	<i>1,2</i> -Diphenylhydrazine		1140	ug/kg	10.0	33.3
120-12-7	4-Bromophenylphenylether		1060	ug/kg	6.67	33.3
84-74-2	Hexachlorobenzene		1280	ug/kg	66.7	333
206-44-0	Phenanthrene		1080	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1210	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1020	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		888	ug/kg	100	333
218-01-9	Chrysene		1100	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1140	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		930	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1040	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		987	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1050	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene		1190	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1190	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1110	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1000	ug/kg	66.7	333

Data File: /chem/MSD4.i/s030410a.b/s4c0413-1.d
Report Date: 05-Mar-2010 08:05

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Data file : /chem/MSD4.i/s030410a.b/s4c0413-1.d
Lab Smp Id: 1202050557 Client Smp ID: SBLK01LCS
Inj Date : 04-MAR-2010 17:06
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202050557|956285|1|SVM|1|LCS
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.823	3.829	(1.000)	145560	40.0000	
* 29 Naphthalene-d8		136	4.690	4.690	(1.000)	587408	40.0000	
* 46 Acenaphthene-d10		164	5.941	5.941	(1.000)	292795	40.0000	
* 67 Phenanthrene-d10		188	6.936	6.936	(1.000)	490864	40.0000	
* 91 Chrysene-d12		240	8.605	8.610	(1.000)	358428	40.0000	
* 98 Perylene-d12		264	10.060	10.070	(1.000)	281106	40.0000	
\$ 3 2-Fluorophenol		112	3.026	3.021	(0.792)	233818	69.0557	2300
\$ 5 Phenol-d5		99	3.545	3.545	(0.927)	283629	67.1269	2240
\$ 20 Nitrobenzene-d5		82	4.187	4.192	(0.893)	127224	30.3803	1010
\$ 39 2-Fluorobiphenyl		172	5.433	5.433	(0.914)	242361	30.8234	1030
\$ 60 2,4,6-Tribromophenol		329	6.481	6.481	(1.091)	61903	71.9280	2400
\$ 81 p-Terphenyl-d14		244	7.861	7.861	(0.914)	217933	38.1152	1270

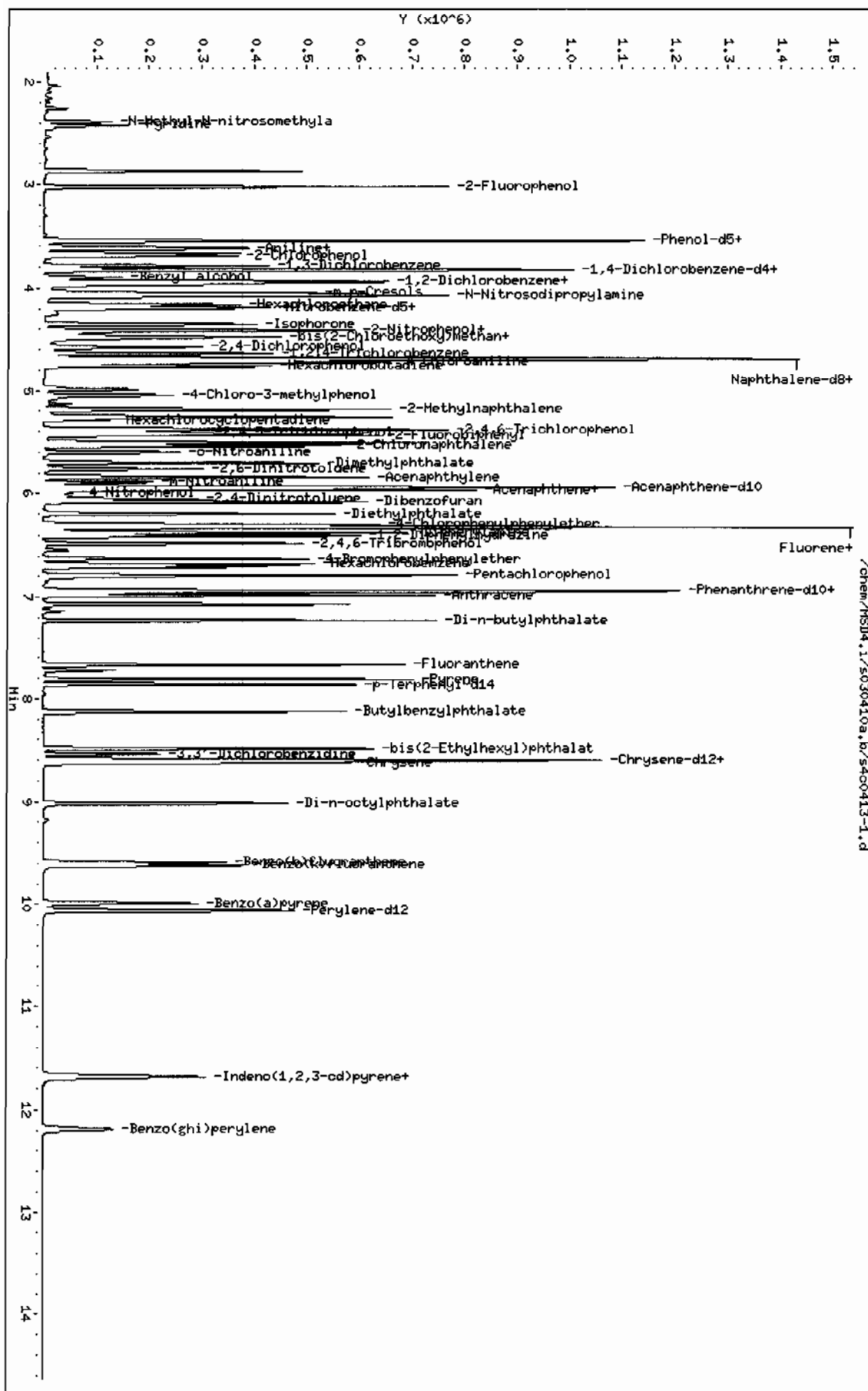
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	3.550	3.556	(0.929)	153985	35.2129	1170
8 2-Chlorophenol	128	3.689	3.695	(0.965)	115137	30.6542	1020
11 1,4-Dichlorobenzene	146	3.834	3.839	(1.003)	134544	29.8649	995
17 N-Nitrosodipropylamine	70	4.064	4.069	(1.063)	106248	37.7490	1260 (Q)
28 1,2,4-Trichlorobenzene	180	4.636	4.641	(0.989)	103021	30.0458	1000
33 4-Chloro-3-methylphenol	107	5.043	5.037	(1.075)	77985	28.2073	940
47 Acenaphthene	154	5.963	5.968	(1.004)	227829	33.2041	1110
50 2,4-Dinitrotoluene	165	6.053	6.054	(1.019)	60833	29.4663	982
52 4-Nitrophenol	139	5.995	5.989	(1.009)	17057	21.1710	706
65 Pentachlorophenol	266	6.808	6.802	(0.981)	22597	27.7602	925
79 Pyrene	202	7.808	7.813	(0.907)	321050	33.4270	1110
2 Pyridine	79	2.422	2.384	(0.633)	75462	23.2217	774
4 Aniline	66	3.609	3.615	(0.944)	56996	30.9311	1030
7 bis(2-Chloroethyl) ether	63	3.625	3.631	(0.948)	92727	31.7206	1060
9 1,3-Dichlorobenzene	146	3.786	3.791	(0.990)	117667	27.7814	926
12 Benzyl alcohol	108	3.893	3.898	(1.018)	33018	15.9910	533
13 1,2-Dichlorobenzene	146	3.935	3.941	(1.029)	122717	30.3319	1010
14 bis(2-Chloroisopropyl) ether	45	3.968	3.973	(1.038)	157676	31.8267	1060 (Q)
15 o-Cresol	107	3.946	3.946	(1.032)	106326	35.1860	1170
18 m,p-Cresols	107	4.048	4.053	(1.059)	140773	38.7959	1290
19 Hexachloroethane	117	4.160	4.165	(1.088)	46380	27.7419	925
21 Nitrobenzene	77	4.198	4.203	(0.895)	126942	31.8298	1060
22 Isophorone	82	4.353	4.358	(0.928)	231392	31.6183	1050
23 2-Nitrophenol	139	4.411	4.417	(0.941)	61391	30.8306	1030
24 2,4-Dimethylphenol	122	4.411	4.412	(0.941)	113784	34.3075	1140
25 bis(2-Chloroethoxy)methane	93	4.476	4.481	(0.954)	137210	31.5071	1050
26 2,4-Dichlorophenol	162	4.577	4.577	(0.976)	82509	28.9740	966
27 Benzoic acid	105	4.486	4.476	(0.957)	116980	56.3306	1880
30 Naphthalene	128	4.706	4.706	(1.003)	396454	33.9825	1130
31 4-Chloroaniline	127	4.727	4.727	(1.008)	174902	32.5357	1080
32 Hexachlorobutadiene	225	4.764	4.770	(1.016)	58845	29.9628	999
34 2-Methylnaphthalene	142	5.187	5.187	(1.106)	239100	33.3984	1110
36 Hexachlorocyclopentadiene	237	5.289	5.289	(0.890)	20690	20.2431	675
37 2,4,6-Trichlorophenol	196	5.380	5.380	(0.905)	72055	34.7057	1160
38 2,4,5-Trichlorophenol	196	5.406	5.406	(0.910)	60208	27.6806	923
40 2-Chloronaphthalene	162	5.540	5.540	(0.932)	209821	31.7111	1060
42 o-Nitroaniline	65	5.599	5.604	(0.942)	55080	29.5042	983
41 m-Nitroaniline	138	5.893	5.898	(0.992)	43076	29.0196	967
43 Dimethylphthalate	163	5.706	5.711	(0.960)	248168	32.9646	1100
44 2,6-Dinitrotoluene	165	5.765	5.770	(0.970)	48178	27.9046	930
45 Acenaphthylene	152	5.845	5.845	(0.984)	351447	34.3366	1140
48 2,4-Dinitrophenol	184	5.968	5.968	(1.004)	14897	28.8193	961 (Q)
49 Dibenzofuran	168	6.080	6.086	(1.023)	297734	33.0250	1100
51 Diethylphthalate	149	6.198	6.198	(1.043)	256272	34.9886	1170
53 Fluorene	166	6.316	6.321	(1.063)	275410	36.2206	1210
54 4-Chlorophenylphenylether	204	6.300	6.300	(1.060)	122916	33.6614	1120
55 2-Methyl-4,6-dinitrophenol	198	6.337	6.337	(0.914)	27405	27.5021	917

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	6.321	6.321	(1.064)	59815	41.0111	1370
133 Diphenylamine	169	6.380	6.380	(0.920)	217871	34.2567	1140
58 1,2-Diphenylhydrazine	77	6.407	6.407	(0.924)	278812	34.6403	1150
61 4-Bromophenylphenylether	248	6.626	6.626	(0.955)	66838	30.9680	1030
63 Hexachlorobenzene	284	6.679	6.685	(0.963)	72221	31.6273	1050
68 Phenanthrene	178	6.952	6.952	(1.002)	373581	34.2789	1140
69 Anthracene	178	6.984	6.984	(1.007)	334298	31.8691	1060
72 Di-n-butylphthalate	149	7.230	7.230	(1.042)	438584	38.2804	1280
76 Fluoranthene	202	7.669	7.669	(1.106)	314405	32.2697	1080
85 Butylbenzylphthalate	149	8.129	8.129	(0.945)	157088	36.3331	1210
89 Benzo(a)anthracene	228	8.594	8.600	(0.999)	252619	30.6924	1020
90 3,3'-Dichlorobenzidine	252	8.541	8.546	(0.993)	59163	26.6345	888
92 Chrysene	228	8.626	8.632	(1.002)	257126	32.9455	1100
93 bis(2-Ethylhexyl)phthalate	149	8.487	8.493	(0.986)	211700	34.2805	1140
94 Di-n-octylphthalate	149	9.017	9.022	(0.896)	296568	27.8921	930
95 Benzo(b)fluoranthene	252	9.594	9.600	(0.954)	223720	31.2932	1040
96 Benzo(k)fluoranthene	252	9.621	9.632	(0.956)	220124	29.6005	987
97 Benzo(a)pyrene	252	9.990	10.001	(0.993)	179346	31.5672	1050
99 Indeno(1,2,3-cd)pyrene	276	11.686	11.702	(1.162)	166996	35.7253	1190
100 Dibenzo(a,h)anthracene	278	11.691	11.707	(1.162)	139163	35.7980	1190
101 Benzo(ghi)perylene	276	12.188	12.204	(1.212)	126094	33.4394	1110
1 N-Methyl-N-nitrosomethylamine	74	2.390	2.352	(0.625)	58556	24.7873	826

QC Flag Legend

Q - Qualifier signal failed the ratio test.

```
Instrument: MSD4.i
Operator: JMB3
Column diameter: 0.20
```



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905		Matrix: SOIL
Lab Sample ID: 1202063248		
Client Sample: QC for batch 961918	Client: LANL010	Project: QC
Client ID: LCS for batch 961918	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 961919	Inst: MSD7.I	Dilution: 1
Run Date: 03/08/2010 12:28	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 03/07/2010 12:11	Aliquot: 30 g	Final Volume: 1 mL
Data File: s7c0809-1.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine		1120	ug/kg	66.7	333
108-95-2	Phenol		1340	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1480	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		1340	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1480	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1390	ug/kg	66.7	333
83-32-9	Acenaphthene		1490	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1580	ug/kg	33.3	333
100-02-7	4-Nitrophenol		1640	ug/kg	110	333
87-86-5	Pentachlorophenol		1560	ug/kg	83.3	333
129-00-0	Pyrene		1330	ug/kg	10.0	33.3
110-86-1	Pyridine		1270	ug/kg	66.7	333
62-53-3	Aniline		949	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		1120	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		1330	ug/kg	66.7	333
100-51-6	Benzyl alcohol		748	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1400	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		1310	ug/kg	66.7	333
95-48-7	o-Cresol		1430	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1660	ug/kg	100	333
67-72-1	Hexachloroethane		1300	ug/kg	66.7	333
98-95-3	Nitrobenzene		1410	ug/kg	66.7	333
78-59-1	Isophorone		1340	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1540	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1160	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1370	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1450	ug/kg	66.7	333
65-85-0	Benzoic acid	E	4110	ug/kg	167	667
91-20-3	Naphthalene		1380	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		1050	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1360	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1410	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		1750	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1500	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1720	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1360	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1350	ug/kg	66.7	333
99-09-2	o-Nitroaniline					
	3-Nitroaniline		1300	ug/kg	66.7	333

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905		Matrix: SOIL
Lab Sample ID: 1202063248		
Client Sample: QC for batch 961918	Client: LANL010	Project: QC
Client ID: LCS for batch 961918	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 961919	Inst: MSD7.I	Dilution: 1
Run Date: 03/08/2010 12:28	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 03/07/2010 12:11	Aliquot: 30 g	Final Volume: 1 mL
Data File: s7c0809-1.d	Column: J&W DB-SMS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate		1560	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1570	ug/kg	33.3	333
208-96-8	Acenaphthylene		1490	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		2320	ug/kg	127	667
132-64-9	Dibenzofuran		1490	ug/kg	66.7	333
84-66-2	Diethylphthalate		1600	ug/kg	66.7	333
86-73-7	Fluorene		1460	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1530	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1990	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1720	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1580	ug/kg	66.7	333
122-66-7	Azobenzene		1500	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1520	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1490	ug/kg	66.7	333
85-01-8	Phenanthrene		1500	ug/kg	10.0	33.3
120-12-7	Anthracene		1490	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate		1600	ug/kg	66.7	333
206-44-0	Fluoranthene		1610	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1470	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1480	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		1260	ug/kg	100	333
218-01-9	Chrysene		1540	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1600	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1490	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1450	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1560	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1560	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene		1820	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1890	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1750	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1370	ug/kg	66.7	333

Data File: /chem/MSD7.i/s030810.b/s7c0809.d
 Report Date: 08-Mar-2010 16:10

Page 1

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Data file : /chem/MSD7.i/s030810.b/s7c0809.d
 Lab Smp Id: 1202063248 Client Smp ID: SBLK02LCS
 Inj Date : 08-MAR-2010 12:28
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |1202063248|961919|1|SVM|1|LCS
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
 Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
 Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
 Als bottle: 7 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1905.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152		4.000	4.004	(1.000)	398177	40.0000	
* 29 Naphthalene-d8	136		4.871	4.876	(1.000)	1594162	40.0000	
* 46 Acenaphthene-d10	164		6.128	6.133	(1.000)	826419	40.0000	
* 67 Phenanthrene-d10	188		7.308	7.312	(1.000)	1553251	40.0000	
* 91 Chrysene-d12	240		9.725	9.730	(1.000)	1348969	40.0000	
* 98 Perylene-d12	264		11.449	11.454	(1.000)	1084865	40.0000	
\$ 3 2-Fluorophenol	112		3.191	3.191	(0.798)	818138	79.0506	2640
\$ 5 Phenol-d5	99		3.716	3.715	(0.929)	1013711	78.1215	2600
\$ 20 Nitrobenzene-d5	82		4.366	4.370	(0.896)	479456	39.8760	1330
\$ 39 2-Fluorobiphenyl	172		5.613	5.613	(0.916)	863131	41.9083	1400
\$ 60 2,4,6-Tribromophenol	329		6.735	6.735	(1.099)	221906	92.8839	3100
\$ 81 p-Terphenyl-d14	244		8.690	8.690	(0.894)	1099679	45.5032	1520

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
6 Phenol	94	3.725	3.725	(0.931)	516513	40.0704	1340
8 2-Chlorophenol	128	3.865	3.869	(0.966)	438769	44.4799	1480
11 1,4-Dichlorobenzene	146	4.014	4.014	(1.004)	478381	40.2347	1340
17 N-Nitrosodipropylamine	70	4.240	4.245	(1.060)	325092	44.3338	1480 (Q)
28 1,2,4-Trichlorobenzene	180	4.818	4.823	(0.989)	422169	41.1496	1370
33 4-Chloro-3-methylphenol	107	5.223	5.213	(1.072)	379614	41.7818	1390
47 Acenaphthene	154	6.152	6.157	(1.004)	814184	44.7607	1490
50 2,4-Dinitrotoluene	165	6.244	6.248	(1.019)	316828	47.3853	1580
52 4-Nitrophenol	139	6.176	6.166	(1.008)	165882	49.3277	1640
65 Pentachlorophenol	266	7.134	7.134	(0.976)	137214	46.7250	1560
79 Pyrene	202	8.589	8.593	(0.883)	1695025	39.7742	1320
2 Pyridine	79	2.565	2.545	(0.641)	366993	38.2183	1270
4 Aniline	66	3.783	3.788	(0.946)	176179	28.4627	949 (Q)
7 bis(2-Chloroethyl) ether	63	3.797	3.802	(0.949)	354943	33.6301	1120 (Q)
9 1,3-Dichlorobenzene	146	3.966	3.971	(0.992)	493212	39.8039	1330
12 Benzyl alcohol	108	4.067	4.072	(1.017)	150713	22.4384	748
13 1,2-Dichlorobenzene	146	4.115	4.120	(1.029)	457987	41.8745	1400
14 bis(2-Chloroisopropyl) ether	45	4.139	4.144	(1.035)	959952	39.2620	1310
15 o-Cresol	107	4.120	4.120	(1.030)	339691	43.0158	1430
18 m,p-Cresols	107	4.221	4.221	(1.055)	531386	49.8014	1660
19 Hexachloroethane	117	4.346	4.351	(1.087)	179990	38.9869	1300
21 Nitrobenzene	77	4.375	4.380	(0.898)	472124	42.3287	1410
22 Isophorone	82	4.529	4.539	(0.930)	868185	40.2867	1340
23 2-Nitrophenol	139	4.592	4.597	(0.943)	241751	46.1547	1540
24 2,4-Dimethylphenol	122	4.587	4.587	(0.942)	341418	34.8721	1160
25 bis(2-Chloroethoxy) methane	93	4.650	4.654	(0.955)	483226	40.9841	1370
26 2,4-Dichlorophenol	162	4.760	4.760	(0.977)	368089	43.5119	1450
27 Benzoic acid	105	4.664	4.650	(0.957)	594127	123.380	4110 (A)
30 Naphthalene	128	4.886	4.890	(1.003)	1246008	41.3764	1380
31 4-Chloroaniline	127	4.900	4.900	(1.006)	445596	31.5993	1050
32 Hexachlorobutadiene	225	4.948	4.953	(1.016)	218031	40.7225	1360
34 2-Methylnaphthalene	142	5.367	5.367	(1.102)	913568	42.2701	1410
36 Hexachlorocyclopentadiene	237	5.468	5.473	(0.892)	209361	52.4024	1750
37 2,4,6-Trichlorophenol	196	5.555	5.555	(0.906)	260410	44.9129	1500
38 2,4,5-Trichlorophenol	196	5.589	5.584	(0.912)	300261	51.4911	1720
40 2-Chloronaphthalene	162	5.723	5.723	(0.934)	782844	40.9261	1360
42 o-Nitroaniline	65	5.776	5.781	(0.943)	273312	40.3589	1340
41 m-Nitroaniline	138	6.075	6.080	(0.991)	192019	38.8517	1300
43 Dimethylphthalate	163	5.882	5.892	(0.960)	1029557	46.8819	1560
44 2,6-Dinitrotoluene	165	5.940	5.945	(0.969)	239170	47.1565	1570
45 Acenaphthylene	152	6.027	6.032	(0.983)	1370136	44.8091	1490
48 2,4-Dinitrophenol	184	6.147	6.152	(1.003)	120447	69.4754	2320 (QR)
49 Dibenzofuran	168	6.282	6.282	(1.025)	1140958	44.6302	1490
51 Diethylphthalate	149	6.398	6.402	(1.044)	1077205	47.9211	1600
53 Fluorene	166	6.542	6.547	(1.068)	942438	43.9357	1460
54 4-Chlorophenylphenylether	204	6.518	6.518	(1.064)	489926	45.9591	1530
55 2-Methyl-4,6-dinitrophenol	198	6.561	6.561	(0.898)	173515	59.5565	1980 (R)

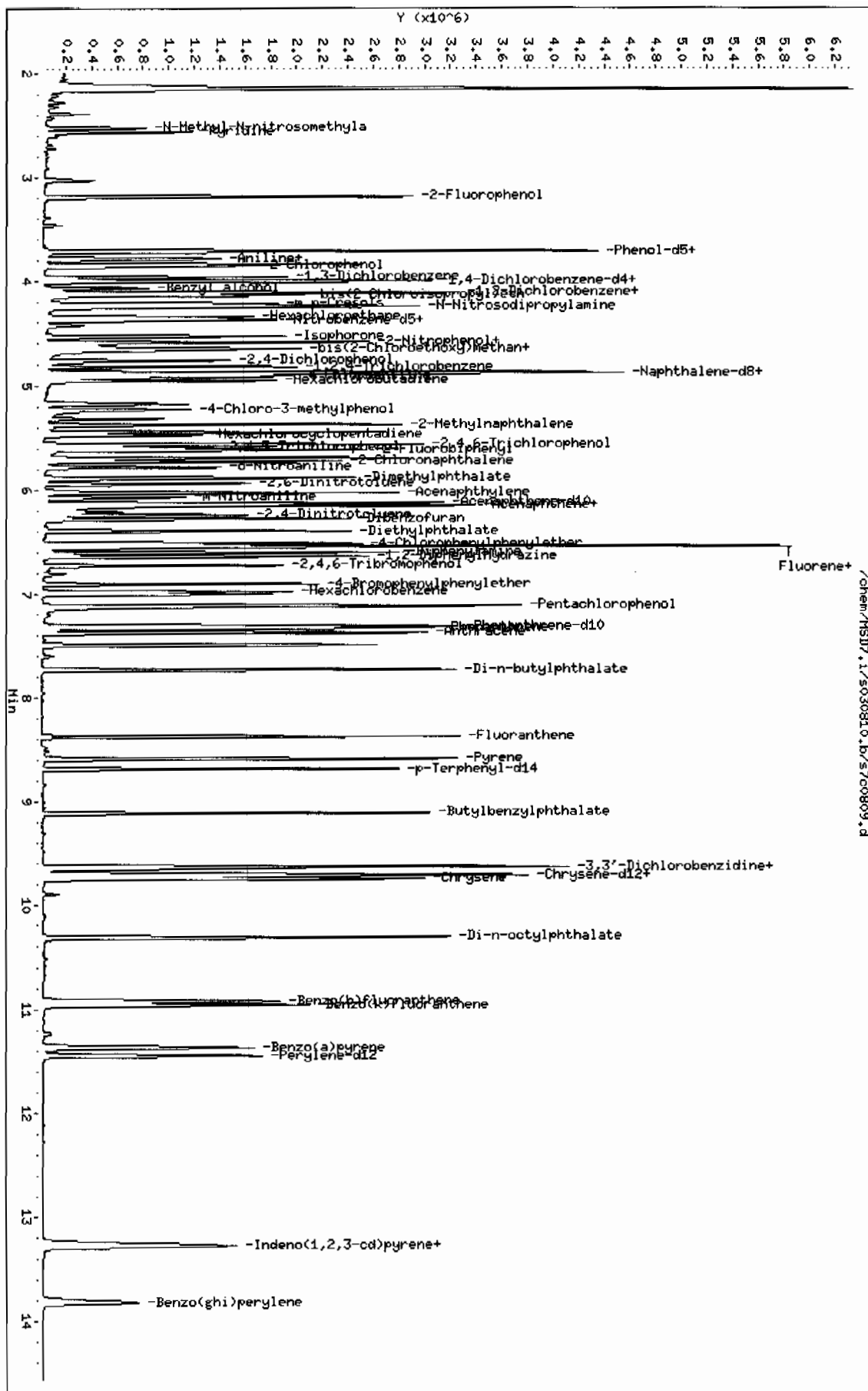
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	6.542	6.542	(1.068)	229209	51.5101	1720
133 Diphenylamine	169	6.609	6.609	(0.904)	866292	47.3309	1580
58 1,2-Diphenylhydrazine	77	6.643	6.648	(0.909)	1035881	44.9861	1500
61 4-Bromophenylphenylether	248	6.908	6.913	(0.945)	292122	45.7323	1520
63 Hexachlorobenzene	284	6.980	6.985	(0.955)	278088	44.8103	1490
68 Phenanthrene	178	7.327	7.332	(1.003)	1435219	45.0286	1500
69 Anthracene	178	7.370	7.375	(1.009)	1444281	44.7412	1490
72 Di-n-butylphthalate	149	7.727	7.727	(1.057)	1945484	47.9065	1600
76 Fluoranthene	202	8.372	8.377	(1.146)	1675144	48.3362	1610
85 Butylbenzylphthalate	149	9.118	9.118	(0.938)	895290	44.1782	1470
89 Benzo(a)anthracene	228	9.711	9.715	(0.998)	1435291	44.3831	1480
90 3,3'-Dichlorobenzidine	252	9.658	9.653	(0.993)	356066	37.8296	1260
92 Chrysene	228	9.754	9.759	(1.003)	1325400	46.0583	1540
93 bis(2-Ethylhexyl)phthalate	149	9.638	9.643	(0.991)	1235297	48.1274	1600
94 Di-n-octylphthalate	149	10.312	10.312	(0.901)	1948135	44.7198	1490
95 Benzo(b)fluoranthene	252	10.919	10.919	(0.954)	1321660	43.4411	1450
96 Benzo(k)fluoranthene	252	10.953	10.958	(0.957)	1338413	46.8099	1560
97 Benzo(a)pyrene	252	11.372	11.372	(0.993)	1170695	46.9280	1560
99 Indeno(1,2,3-cd)pyrene	276	13.264	13.269	(1.159)	982072	54.7452	1820
100 Dibenzo(a,h)anthracene	278	13.279	13.283	(1.160)	805933	56.6914	1890
101 Benzo(ghi)perylene	276	13.823	13.823	(1.207)	785145	52.4812	1750
1 N-Methyl-N-nitrosomethylamine	74	2.521	2.507	(0.630)	234278	33.6210	1120

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/HSD7.1/s030810.b/s700809.d
 Date: 08-MAR-2010 12:28
 Client ID: SBLK02LCS
 Sample Info: 14202632481961919111SWH11LCS
 Volume Injected (uL): 0.5
 Column phase: JMW DB-5MS

Instrument: HSD7.1
 Operator: JHB3
 Column diameter: 0.20



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1905
Lab Sample ID: 1202063249

Client Sample: QC for batch 961918
Client ID: LCSD for batch 961918
Batch ID: 961919
Run Date: 03/08/2010 12:50
Prep Date: 03/07/2010 12:11
Data File: s7c0810-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: SOIL
Project: QC
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine		1090	ug/kg	66.7	333
108-95-2	Phenol		1280	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1400	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		1290	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1410	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1320	ug/kg	66.7	333
83-32-9	Acenaphthene		1400	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1470	ug/kg	33.3	333
100-02-7	4-Nitrophenol		1470	ug/kg	110	333
87-86-5	Pentachlorophenol		1720	ug/kg	83.3	333
129-00-0	Pyrene		1280	ug/kg	10.0	33.3
110-86-1	Pyridine		1240	ug/kg	66.7	333
62-53-3	Aniline		886	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		1090	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		1280	ug/kg	66.7	333
100-51-6	Benzyl alcohol		645	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1350	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		1250	ug/kg	66.7	333
95-48-7	o-Cresol		1370	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1590	ug/kg	100	333
67-72-1	Hexachloroethane		1260	ug/kg	66.7	333
98-95-3	Nitrobenzene		1310	ug/kg	66.7	333
78-59-1	Isophorone		1270	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1470	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1080	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1300	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1410	ug/kg	66.7	333
65-85-0	Benzoic acid		3410	ug/kg	167	667
91-20-3	Naphthalene		1320	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		1050	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1330	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1340	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		1610	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1370	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1680	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1310	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1250	ug/kg	66.7	333
99-09-2	o-Nitroaniline					
	3-Nitroaniline		1220	ug/kg	66.7	333

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1905		Matrix: SOIL
Lab Sample ID: 1202063249		
Client Sample: QC for batch 961918	Client: LANL010	Project: QC
Client ID: LCSD for batch 961918	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 961919	Inst: MSD7.I	Dilution: 1
Run Date: 03/08/2010 12:50	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 03/07/2010 12:11	Aliquot: 30 g	Final Volume: 1 mL
Data File: s7c0810-1.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate		1490	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1480	ug/kg	33.3	333
208-96-8	Acenaphthylene		1410	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		2080	ug/kg	127	667
132-64-9	Dibenzofuran		1420	ug/kg	66.7	333
84-66-2	Diethylphthalate		1500	ug/kg	66.7	333
86-73-7	Fluorene		1380	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1450	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1810	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1620	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1490	ug/kg	66.7	333
122-66-7	Azobenzene		1410	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1440	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1400	ug/kg	66.7	333
85-01-8	Phenanthrene		1400	ug/kg	10.0	33.3
120-12-7	Anthracene		1400	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate		1510	ug/kg	66.7	333
206-44-0	Fluoranthene		1530	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1420	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1400	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		1140	ug/kg	100	333
218-01-9	Chrysene		1470	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1550	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1490	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1480	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1410	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1480	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene		1690	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1740	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1610	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1330	ug/kg	66.7	333

Data File: /chem/MSD7.i/s030810.b/s7c0810.d
Report Date: 08-Mar-2010 16:10

Page 1

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD7.i/s030810.b/s7c0810.d
Lab Smp Id: 1202063249 Client Smp ID: SBLK02LCSD
Inj Date : 08-MAR-2010 12:50
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |1202063249|961919|1|SVM|1|LCSD
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s030810.b/MSD7-M8270C-AQA-022610.m
Meth Date : 08-Mar-2010 14:15 jos00786 Quant Type: ISTD
Cal Date : 26-FEB-2010 22:19 Cal File: s7b2633.d
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1905.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG					CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
	MASS						(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152		4.000	4.004	(1.000)	436990	40.0000	
* 29 Naphthalene-d8	136		4.871	4.876	(1.000)	1750998	40.0000	
* 46 Acenaphthene-d10	164		6.128	6.133	(1.000)	907161	40.0000	
* 67 Phenanthrene-d10	188		7.308	7.312	(1.000)	1702725	40.0000	
* 91 Chrysene-d12	240		9.730	9.730	(1.000)	1450241	40.0000	
* 98 Perylene-d12	264		11.449	11.454	(1.000)	1120708	40.0000	
\$ 3 2-Fluorophenol	112		3.196	3.191	(0.799)	848456	74.6986	2490
\$ 5 Phenol-d5	99		3.716	3.715	(0.929)	1057728	74.2737	2480
\$ 20 Nitrobenzene-d5	82		4.366	4.370	(0.896)	500019	37.8614	1260
\$ 39 2-Fluorobiphenyl	172		5.613	5.613	(0.916)	899882	39.8038	1330
\$ 60 2,4,6-Tribromophenol	329		6.735	6.735	(1.099)	231661	88.3365	2940
\$ 81 p-Terphenyl-d14	244		8.690	8.690	(0.893)	1133550	43.6293	1450

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
6 Phenol		94	3.725	3.725	(0.931)	543021	38.3852	1280
8 2-Chlorophenol		128	3.865	3.869	(0.966)	456032	42.1239	1400
11 1,4-Dichlorobenzene		146	4.009	4.014	(1.002)	505744	38.7581	1290
17 N-Nitrosodipropylamine		70	4.240	4.245	(1.060)	340429	42.3019	1410 (Q)
28 1,2,4-Trichlorobenzene		180	4.818	4.823	(0.989)	448636	39.8126	1330
33 4-Chloro-3-methylphenol		107	5.228	5.213	(1.073)	394488	39.5298	1320
47 Acenaphthene		154	6.157	6.157	(1.005)	837985	41.9687	1400
50 2,4-Dinitrotoluene		165	6.244	6.248	(1.019)	322819	43.9841	1470
52 4-Nitrophenol		139	6.176	6.166	(1.008)	162262	43.9566	1460 (Q)
65 Pentachlorophenol		266	7.134	7.134	(0.976)	166348	51.6732	1720
79 Pyrene		202	8.594	8.593	(0.883)	1761047	38.4377	1280
2 Pyridine		79	2.570	2.545	(0.642)	393191	37.3097	1240
4 Aniline		66	3.783	3.788	(0.946)	180589	26.5839	886 (Q)
7 bis(2-Chloroethyl) ether		63	3.797	3.802	(0.949)	377689	32.6068	1090 (Q)
9 1,3-Dichlorobenzene		146	3.966	3.971	(0.992)	523442	38.4915	1280
12 Benzyl alcohol		108	4.067	4.072	(1.017)	142737	19.3635	645
13 1,2-Dichlorobenzene		146	4.115	4.120	(1.029)	484669	40.3782	1340
14 bis(2-Chloroisopropyl) ether		45	4.139	4.144	(1.035)	1002705	37.3681	1240
15 o-Cresol		107	4.120	4.120	(1.030)	356423	41.1258	1370
18 m,p-Cresols		107	4.221	4.221	(1.055)	557446	47.6035	1590
19 Hexachloroethane		117	4.346	4.351	(1.087)	191581	37.8118	1260
21 Nitrobenzene		77	4.375	4.380	(0.898)	481604	39.3111	1310
22 Isophorone		82	4.529	4.539	(0.930)	900982	38.0638	1270
23 2-Nitrophenol		139	4.592	4.597	(0.943)	253777	44.1110	1470
24 2,4-Dimethylphenol		122	4.587	4.587	(0.942)	352471	32.4756	1080
25 bis(2-Chloroethoxy)methane		93	4.650	4.654	(0.955)	505974	39.0697	1300
26 2,4-Dichlorophenol		162	4.761	4.760	(0.977)	392058	42.1942	1410
27 Benzoic acid		105	4.664	4.650	(0.957)	540974	102.280	3410
30 Naphthalene		128	4.886	4.890	(1.003)	1306690	39.5049	1320
31 4-Chloroaniline		127	4.900	4.900	(1.006)	485602	31.3518	1040
32 Hexachlorobutadiene		225	4.948	4.953	(1.016)	233982	39.7874	1330
34 2-Methylnaphthalene		142	5.367	5.367	(1.102)	954764	40.2194	1340
36 Hexachlorocyclopentadiene		237	5.468	5.473	(0.892)	212365	48.4233	1610
37 2,4,6-Trichlorophenol		196	5.560	5.555	(0.907)	260818	40.9795	1360
38 2,4,5-Trichlorophenol		196	5.594	5.584	(0.913)	322745	50.4207	1680
40 2-Chloronaphthalene		162	5.724	5.723	(0.934)	827162	39.3941	1310
42 o-Nitroaniline		65	5.777	5.781	(0.943)	278122	37.4138	1250
41 m-Nitroaniline		138	6.075	6.080	(0.991)	198207	36.5343	1220
43 Dimethylphthalate		163	5.883	5.892	(0.960)	1075137	44.5999	1490
44 2,6-Dinitrotoluene		165	5.945	5.945	(0.970)	247257	44.4119	1480
45 Acenaphthylene		152	6.027	6.032	(0.983)	1422959	42.3946	1410
48 2,4-Dinitrophenol		184	6.152	6.152	(1.004)	115362	62.4488	2080 (Q)
49 Dibenzofuran		168	6.282	6.282	(1.025)	1196557	42.6392	1420
51 Diethylphthalate		149	6.403	6.402	(1.045)	1109516	44.9654	1500
53 Fluorene		166	6.542	6.547	(1.068)	973085	41.3268	1380
54 4-Chlorophenylphenylether		204	6.518	6.518	(1.064)	507905	43.4049	1450
55 2-Methyl-4,6-dinitrophenol		198	6.561	6.561	(0.898)	170642	54.2673	1810

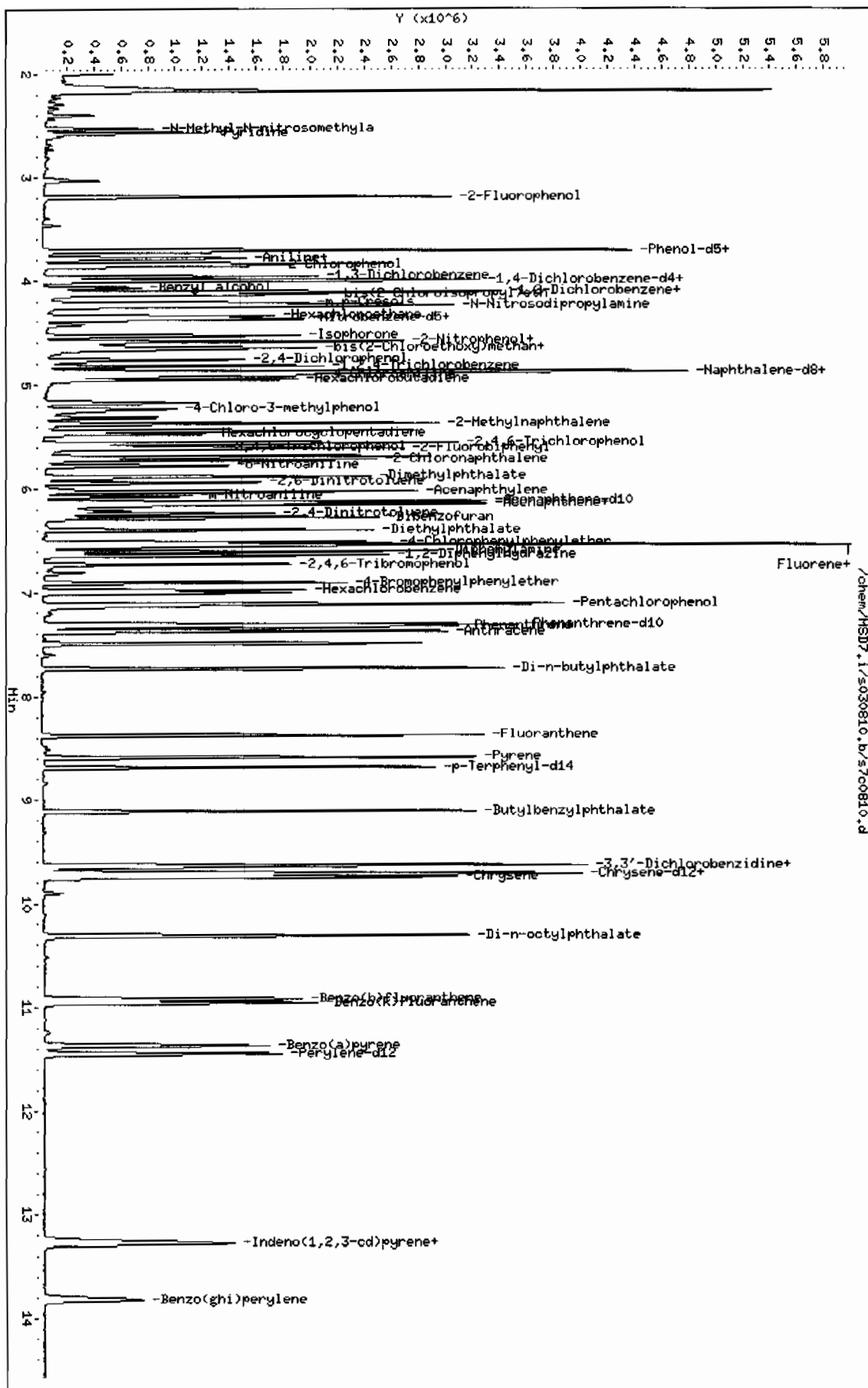
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	6.542	6.542	(1.068)	237771	48.6783	1620
133 Diphenylamine	169	6.610	6.609	(0.904)	897318	44.7223	1490
58 1,2-Diphenylhydrazine	77	6.643	6.648	(0.909)	1069513	42.3694	1410
61 4-Bromophenylphenylether	248	6.908	6.913	(0.945)	302638	43.2195	1440
63 Hexachlorobenzene	284	6.985	6.985	(0.956)	286534	42.1181	1400
68 Phenanthrene	178	7.332	7.332	(1.003)	1467458	41.9984	1400
69 Anthracene	178	7.375	7.375	(1.009)	1489580	42.0937	1400
72 Di-n-butylphthalate	149	7.727	7.727	(1.057)	2013515	45.2291	1510
76 Fluoranthene	202	8.377	8.377	(1.146)	1743052	45.8805	1530
85 Butylbenzylphthalate	149	9.118	9.118	(0.937)	928207	42.6041	1420
89 Benzo(a)anthracene	228	9.715	9.715	(0.998)	1463404	42.0924	1400
90 3,3'-Dichlorobenzidine	252	9.663	9.653	(0.993)	346189	34.2118	1140
92 Chrysene	228	9.754	9.759	(1.002)	1368496	44.2350	1470
93 bis(2-Ethylhexyl)phthalate	149	9.643	9.643	(0.991)	1282248	46.4681	1550
94 Di-n-octylphthalate	149	10.313	10.312	(0.901)	2004902	44.5510	1480
95 Benzo(b)fluoranthene	252	10.919	10.919	(0.954)	1399392	44.5250	1480
96 Benzo(k)fluoranthene	252	10.958	10.958	(0.957)	1248637	42.2734	1410
97 Benzo(a)pyrene	252	11.372	11.372	(0.993)	1147820	44.5394	1480
99 Indeno(1,2,3-cd)pyrene	276	13.264	13.269	(1.159)	937865	50.6088	1690
100 Dibenzo(a,h)anthracene	278	13.284	13.283	(1.160)	765489	52.1243	1740
101 Benzo(ghi)perylene	276	13.818	13.823	(1.207)	746623	48.3102	1610
1 N-Methyl-N-nitrosomethylamine	74	2.531	2.507	(0.633)	249019	32.5624	1080

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD7.1/s030810.b/s7c0810.d
 Date: 09-MAR-2010 12:50
 Client ID: SELK02LCSD
 Sample Info: 1120206324919619111SWH11LCSD
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SHS

Instrument: MSD7.1
 Operator: JH33
 Column diameter: 0.20



Miscellaneous Data

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 956255 Verified by: _____ Lab SOP: GL-OA-E-010 REV# 18
 Analyst: Robin Hunt Instrument: Semi-Volatiles Manual
 Method: SW846 3550B

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202050556 MB	23-FEB-2010 10:34:00	30	1	0.03333
1202050557 LCS	23-FEB-2010 10:34:00	30	1	0.03333
247332002	23-FEB-2010 10:34:00	30.07	1	0.03326
247332003	23-FEB-2010 10:34:00	30.01	1	0.03332
247332004	23-FEB-2010 10:34:00	30	1	0.03333
247332005	23-FEB-2010 10:34:00	30.01	1	0.03332
247332006	23-FEB-2010 10:34:00	30.03	1	0.0333
247332007	23-FEB-2010 10:34:00	30.03	1	0.0333
247332008	23-FEB-2010 10:34:00	30	1	0.03333
247358001	23-FEB-2010 10:34:00	30	1	0.03333
247358002	23-FEB-2010 10:34:00	30.03	1	0.0333
247358003	23-FEB-2010 10:34:00	30.03	1	0.0333
247358004	23-FEB-2010 10:34:00	30.02	1	0.03331
247556001	23-FEB-2010 10:34:00	30	1	0.03333
1202050558 MS (247556001)	23-FEB-2010 10:34:00	30	1	0.03333
1202050559 MSD (247556001)	23-FEB-2010 10:34:00	30.03	1	0.0333
247556002	23-FEB-2010 10:34:00	30	1	0.03333
247556003	23-FEB-2010 10:34:00	30.04	1	0.03329
247556004	23-FEB-2010 10:34:00	30.01	1	0.03332
247556005	23-FEB-2010 10:34:00	30.01	1	0.03332

Comments:

Verified By: JAM
 Final Solvent: CH2Cl2

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202050557	BNA LCS w/o Benzidine 50ppm	UE100204-14	1	mL
LCS	1202050557	BENZIDINE LCS	UE100217-22	1	mL
MS	1202050558	BNA LCS w/o Benzidine 50ppm	UE100204-14	1	mL
MS	1202050558	BENZIDINE LCS	UE100217-22	1	mL
MSD	1202050559	BNA LCS w/o Benzidine 50ppm	UE100204-14	1	mL
MSD	1202050559	BENZIDINE LCS	UE100217-22	1	mL
SURR	All	BNA for all Surrogate	UE100212-10	1	mL
REGNT	All	Acetone	100211-B1	150	mL
REGNT	All	Methylene Chloride	1269262-D	150	mL
SOURC	All	SODIUM SULFATE	1269268	30	g

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 961918 Verified by: _____ Lab SOP: GL-OA-E-010 REV# 18
 Analyst: Alberto Velasco Instrument: Semi-Volatiles Manual
 Method: SW846 3550B

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202063247 MB	07-MAR-2010 12:11:00	30	1	0.03333
1202063248 LCS	07-MAR-2010 12:11:00	30	1	0.03333
1202063249 LCSD	07-MAR-2010 12:11:00	30	1	0.03333
247116010 - 2	07-MAR-2010 12:11:00	30.05	1	0.03328
247332005 - 2	07-MAR-2010 12:11:00	30.06	1	0.03327

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202063248	BNA LCS w/o Benzidine 50ppm	UEI00302-15	1	mL	Verified By: AAW
LCS	1202063248	BENZIDINE LCS	UEI00302-22	1	mL	Final Solvent: CH2Cl2
LCSD	1202063249	BNA LCS w/o Benzidine 50ppm	UEI00302-15	1	mL	
LCSD	1202063249	BENZIDINE LCS	UEI00302-22	1	mL	
SURR	All	BNA for all Surrogate	UEI00301-10	1	mL	
REGNT	All	Methylene Chloride	100301-D	150	mL	
REGNT	All	Acetone	1273823-B1	150	mL	
SOURC	All	SODIUM SULFATE	1274910	30	g	

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD4

DATE: 03/04/2010

METHOD: See raw data

OPERATOR: JMB3

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D

Multiplier Voltage: 1212 Emv Extr. Injection Volume: 0.5, 1.0 ul

DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100227-01

CALIBRATION & QC INFORMATION:

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23 Sequence Number: /chem/MSD4.i/s030410a.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
Is4c0409.d	WBN100207-01	JMB3	04-MAR-2010 15:36	DFTPP	Is030410	1.0	DFTPP	8270c TUNE: PASSES
Is4c0410.d	WBN100225-05.4	JMB3	04-MAR-2010 15:49	CVS	Is030410a	1.0	MEGACVS	8270c MEGA CVS (IS1: 148556)
Is4c0411.d	WBN100218-03.5	JMB3	04-MAR-2010 16:21	CVS	Is030410a	1.0	APCVS	8270c AP CVS
Is4c0412-1.d	1202050556	JMB3	04-MAR-2010 16:43	956285	10-1905	1.0	MB	
Is4c0412-2.d	1202050556	JMB3	04-MAR-2010 16:43	956285	10-1914	1.0	MB	
Is4c0412.d	1202050556	JMB3	04-MAR-2010 16:43	956285	10-1953	1.0	MB	
Is4c0413-1.d	1202050557	JMB3	04-MAR-2010 17:06	956285	10-1905	1.0	LCS	
Is4c0413-2.d	1202050557	JMB3	04-MAR-2010 17:06	956285	10-1914	1.0	LCS	
Is4c0413.d	1202050557	JMB3	04-MAR-2010 17:06	956285	10-1953	1.0	LCS	
Is4c0414.d	1247332002	JMB3	04-MAR-2010 17:28	956285	10-1905	1.0	LANL	
Is4c0415.d	1247332003	JMB3	04-MAR-2010 17:50	956285	10-1905	1.0	LANL	
Is4c0416.d	1247332004	JMB3	04-MAR-2010 18:12	956285	10-1905	1.0	LANL	
Is4c0417.d	1247332005	JMB3	04-MAR-2010 18:35	956285	10-1905	1.0	LANL	REPORT: fails surr - rx s7c0813 passes out of hold
Is4c0418.d	1247332006	JMB3	04-MAR-2010 18:57	956285	10-1905	1.0	LANL	
Is4c0419.d	1247332007	JMB3	04-MAR-2010 19:19	956285	10-1905	1.0	LANL	
Is4c0420.d	1247332008	JMB3	04-MAR-2010 19:42	956285	10-1905	1.0	LANL	
Is4c0421.d	1248077001	JMB3	04-MAR-2010 20:04	958143	1248077	1.0	SUBR	
Is4c0422.d	1202054710	JMB3	04-MAR-2010 20:26	958143	1248077	1.0	MS	
Is4c0423.d	1202054711	JMB3	04-MAR-2010 20:48	958143	1248077	1.0	MSD	

s4c0424.d	1248077002	JMB3	04-MAR-2010 21:10	958143	1248077	1.0 SUBR	
s4c0425.d	1248077003	JMB3	04-MAR-2010 21:32	958143	1248077	1.0 SUBR	
s4c0426.d	1248077004	JMB3	04-MAR-2010 21:54	958143	1248077	1.0 SUBR	
s4c0427.d	1248077005	JMB3	04-MAR-2010 22:16	958143	1248077	1.0 SUBR	
s4c0428.d	1248077006	JMB3	04-MAR-2010 22:38	958143	1248077	1.0 SUBR	
s4c0429.d	1248077007	JMB3	04-MAR-2010 23:01	958143	1248077	1.0 SUBR	
s4c0430.d	1247358001	JMB3	04-MAR-2010 23:23	956285	110-1914	1.0 LANL	REPORT: fails ISTD - rerun s4c0530 confirms failure
s4c0431.d	1247358002	JMB3	04-MAR-2010 23:45	956285	110-1914	1.0 LANL	
s4c0432.d	1247358003	JMB3	05-MAR-2010 00:07	956285	110-1914	1.0 LANL	
s4c0433.d	1247358004	JMB3	05-MAR-2010 00:29	956285	110-1914	1.0 LANL	
s4c0434.d	1247556001	JMB3	05-MAR-2010 00:51	956285	110-1953	1.0 LANL	
s4c0435.d	11202050558	JMB3	05-MAR-2010 01:17	956285	110-1953	1.0 MSD_LANL	
s4c0436.d	11202050559	JMB3	05-MAR-2010 01:39	956285	110-1953	1.0 MSD_LANL	
s4c0437.d	1247556002	JMB3	05-MAR-2010 02:01	956285	110-1953	1.0 LANL	
s4c0438.d	1247556004	JMB3	05-MAR-2010 02:23	956285	110-1953	1.0 LANL	
s4c0439.d	1247556005	JMB3	05-MAR-2010 02:45	956285	110-1953	1.0 LANL	DUSE: fails ISTD - see rerun s4c0441
s4c0440.d	1247556003	JMB3	05-MAR-2010 03:06	956285	110-1953	1.0 LANL	REPORT: fails ISTD - rerun s4c0442 confirms
s4c0441.d	1247556005	JMB3	05-MAR-2010 03:28	956285	110-1953	1.0 LANL	
s4c0442.d	1247556003	JMB3	05-MAR-2010 03:50	956285	110-1953	1.0 LANL	DUSE: rerun of s4c0440 - fails ISTD - CONFIRMATION

Instrument Batch: /chem/MSD4.i/s030410a.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD/

DATE: 03/08/2010

METHOD: See raw data

OPERATOR: JMB3

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D

Multiplier Voltage: 1965 Emv Extr. Injection Volume: 0.5, 1.0 ul

DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100227-01

CALIBRATION & QC INFORMATION:

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23

Sequence Number: /chem/MSD7.i/s030810.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
Is7c0801.d	WBN100207-01	JMB3	08-MAR-2010 08:36	DFTPP	Is030810	1.0	DFTPP	DUSE
Is7c0802.d	WBN100225-05.4	JMB3	08-MAR-2010 08:49	CVS	Is030810	1.0	MEGACVS	DUSE
Is7c0803.d	WBN100207-01	JMB3	08-MAR-2010 10:25	DFTPP	Is030810	1.0	DFTPP	8270c TUNE: PASSES
Is7c0804.d	WBN100225-05.4	JMB3	08-MAR-2010 10:38	CVS	Is030810	1.0	MEGACVS	8270c MEGA CVS (ISI: 465804)
Is7c0805.d	WBN100218-03.5	JMB3	08-MAR-2010 11:02	CVS	Is030810	1.0	APCVS	8270c AP CVS
Is7c0806-1.d	1202055236	JMB3	08-MAR-2010 11:24	958344	10-2024	1.0	MB	
Is7c0806-2.d	1202055236	JMB3	08-MAR-2010 11:24	958344	10-2068	1.0	MB	
Is7c0806-3.d	1202055236	JMB3	08-MAR-2010 11:24	958344	10-2080	1.0	MB	
Is7c0806.d	1202055236	JMB3	08-MAR-2010 11:24	958344	10-2088	1.0	MB	
Is7c0807-1.d	1202055237	JMB3	08-MAR-2010 11:45	958344	10-2024	1.0	LCS	
Is7c0807-2.d	1202055237	JMB3	08-MAR-2010 11:45	958344	10-2068	1.0	LCS	
Is7c0807-3.d	1202055237	JMB3	08-MAR-2010 11:45	958344	10-2080	1.0	LCS	
Is7c0807.d	1202055237	JMB3	08-MAR-2010 11:45	958344	10-2088	1.0	LCS	
Is7c0808-1.d	1202063247	JMB3	08-MAR-2010 12:07	961919	10-1839	1.0	MB	
Is7c0808.d	1202063247	JMB3	08-MAR-2010 12:07	961919	10-1905	1.0	MB	
Is7c0809-1.d	1202063248	JMB3	08-MAR-2010 12:28	961919	10-1839	1.0	LCS	
Is7c0809.d	1202063248	JMB3	08-MAR-2010 12:28	961919	10-1905	1.0	LCS	
Is7c0810-1.d	1202063249	JMB3	08-MAR-2010 12:50	961919	10-1839	1.0	LCS	
Is7c0810.d	1202063249	JMB3	08-MAR-2010 12:50	961919	10-1905	1.0	LCS	

1s7c0811.d	1247569007	JMB3	08-MAR-2010 13:11	957963	10-1959	1.0 LANL	DUSE: still fails surr
1s7c0812.d	1247569008	JMB3	08-MAR-2010 13:33	957963	10-1959	1.0 LANL	DUSE: still fails surr
1s7c0813.d	1247332005	JMB3	08-MAR-2010 13:54	961919	10-1905	1.0 LANL_rx	REPORT: rx of s4c0417 - passes out of holding
1s7c0814.d	248004002	JMB3	08-MAR-2010 14:16	958344	10-2024	1.0 LANL	
1s7c0815.d	12480004003	JMB3	08-MAR-2010 14:38	958344	10-2024	1.0 LANL	
1s7c0816.d	1247116010	JMB3	08-MAR-2010 15:00	961919	10-1839	1.0 LANL_rx	REPORT: rx of s8c0107 - passes out of holding
1s7c0817.d	1248004004	JMB3	08-MAR-2010 15:21	958344	10-2024	1.0 LANL	
1s7c0818.d	12480004005	JMB3	08-MAR-2010 15:43	958344	10-2024	1.0 LANL	
1s7c0819.d	12480004006	JMB3	08-MAR-2010 16:05	958344	10-2024	1.0 LANL	
1s7c0820.d	248027002	JMB3	08-MAR-2010 16:26	958344	10-2068	1.0 LANL	
1s7c0821.d	1248027003	JMB3	08-MAR-2010 16:48	958344	10-2068	1.0 LANL	
1s7c0822.d	1248027004	JMB3	08-MAR-2010 17:10	958344	10-2068	1.0 LANL	REPORT: fails surr - rx s5c1:28 confirms failure
1s7c0823.d	1248027005	JMB3	08-MAR-2010 17:31	958344	10-2068	1.0 LANL	
1s7c0824.d	1248027006	JMB3	08-MAR-2010 17:53	958344	10-2068	1.0 LANL	
1s7c0825.d	1248060003	JMB3	08-MAR-2010 18:14	958344	10-2080	1.0 LANL	
1s7c0826.d	1248060004	JMB3	08-MAR-2010 18:36	958344	10-2080	1.0 LANL	
1s7c0827.d	1248060005	JMB3	08-MAR-2010 18:58	958344	10-2080	1.0 LANL	
1s7c0828.d	1248060006	JMB3	08-MAR-2010 19:20	958344	10-2080	1.0 LANL	
1s7c0829.d	1248068001	JMB3	08-MAR-2010 19:41	958344	10-2088	1.0 LANL	
1s7c0830.d	11202055238	JMB3	08-MAR-2010 20:03	958344	10-2088	1.0 MS_LANL	
1s7c0831.d	11202055239	JMB3	08-MAR-2010 20:24	958344	10-2088	1.0 MSD_LANL	
1s7c0832.d	1248068002	JMB3	08-MAR-2010 20:46	958344	10-2088	1.0 LANL	
1s7c0833.d	1247545002	JMB3	08-MAR-2010 21:08	957963	10-1964	1.0 LANL	
1s7c0834.d	1247545005	JMB3	08-MAR-2010 21:29	957963	10-1964	1.0 LANL	
1s7c0835.d	1247545002	JMB3	08-MAR-2010 21:51	957963	10-1964	1.0 LANL	DUSE: rerun not needed - see s7c0833
1s7c0836.d	1247545005	JMB3	08-MAR-2010 22:12	957963	10-1964	1.0 LANL	DUSE: rerun not needed - see s7c0834

Instrument Batch: /chem/MSD7.i/s030810.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD4

DATE: 02/24/2010

METHOD: See raw data

OPERATOR: JMB3

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D
Multiplier Voltage: 1212 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100217-01
CALIBRATION & QC INFORMATION:
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23 Sequence Number: /chem/MSD4.i/s022410a.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
Is4b2410.d	WBN100207-01	JMB3	124-FEB-2010 17:04	DFTPP	Is022410	1.0	DFTPP	DOSE
Is4b2411.d	WBN100215-05.2	JMB3	124-FEB-2010 17:17	ICVS	Is022410a	1.0	MEGACVS	DOSE
Is4b2412.d	WBN100218-05.3	JMB3	124-FEB-2010 17:43	ICVS	Is022410a	1.0	APCVS	DOSE
Is4b2413.d	WBN100207-01	JMB3	124-FEB-2010 18:05	DFTPP	Is022410a	1.0	DFTPP	DOSE
Is4b2414.d	WBN100215-05.2	JMB3	124-FEB-2010 18:17	ICVS	Is022410a	1.0	MEGACVS	DOSE
Is4b2415.d	WBN100207-01	JMB3	124-FEB-2010 18:41	DFTPP	Is022410a	1.0	DFTPP	DOSE
Is4b2416.d	WBN100215-05.2	JMB3	124-FEB-2010 18:54	ICVS	Is022410a	1.0	MEGACVS	DOSE
Is4b2417.d	WBN100215-05.2	JMB3	124-FEB-2010 19:22	ICVS	Is022410a	1.0	MEGACVS	DOSE
Is4b2418-D.d	WBN100207-01	JMB3	124-FEB-2010 20:29	DFTPP	Is022410a	1.0	DFTPP	8270d CONC: PEST
Is4b2418.d	WBN100207-01	JMB3	124-FEB-2010 20:29	DFTPP	Is022410a	1.0	DFTPP	8270c CONC: PEST
Is4b2419.d	WBN100215-05.2	JMB3	124-FEB-2010 20:40	ICVS	Is022410a	1.0	MEGACVS	DOSE
Is4b2420.d	WBN100218-05.3	JMB3	124-FEB-2010 21:01	ICVS	Is022410a	1.0	APCVS	DOSE
Is4b2421.d	WBN100215-08	JMB3	124-FEB-2010 21:23	ICAL	Is022410a	1.0	MEG001	DOSE
Is4b2422.d	WBN100215-07	JMB3	124-FEB-2010 21:50	ICAL	Is022410a	1.0	MEG010	DOSE
Is4b2423.d	WBN100215-06	JMB3	124-FEB-2010 22:17	ICAL	Is022410a	1.0	MEG020	DOSE
Is4b2424.d	WBN100215-05.1	JMB3	124-FEB-2010 22:44	ICAL	Is022410a	1.0	MEG040	DOSE
Is4b2425.d	WBN100215-04	JMB3	124-FEB-2010 23:10	ICAL	Is022410a	1.0	MEG050	DOSE
Is4b2426.d	WBN100215-03	JMB3	124-FEB-2010 23:37	ICAL	Is022410a	1.0	MEG080	DOSE
Is4b2427.d	WBN100215-02	JMB3	125-FEB-2010 00:04	ICAL	Is022410a	1.0	MEG100	DOSE

s4b2428.d	WBN100215-01	JMB3	25-FEB-2010 00:30	ICAL	s022410a	1.0 MEG120	DUSE
s4b2429.d	WBN100218-01	JMB3	25-FEB-2010 00:57	ICAL	s022410a	1.0 AP010	DOSE
s4b2430.d	WBN100218-02	JMB3	25-FEB-2010 01:19	ICAL	s022410a	1.0 AP020	DUSE
s4b2431.d	WBN100218-03.1	JMB3	25-FEB-2010 01:41	ICAL	s022410a	1.0 AP040	DUSE
s4b2432.d	WBN100218-04	JMB3	25-FEB-2010 02:02	ICAL	s022410a	1.0 AP050	DUSE
s4b2433.d	WBN100218-05	JMB3	25-FEB-2010 02:24	ICAL	s022410a	1.0 AP080	DOSE
s4b2434.d	WBN100218-06	JMB3	25-FEB-2010 02:46	ICAL	s022410a	1.0 AP010C	DUSE
s4b2435.d	WBN100218-07	JMB3	25-FEB-2010 03:07	ICAL	s022410a	1.0 AP120	DUSE
s4b2436.d	WBN100205-25	JMB3	25-FEB-2010 03:29	ICAL	s022410a	1.0 PEST010	
s4b2437.d	WBN100205-24	JMB3	25-FEB-2010 03:51	ICAL	s022410a	1.0 PEST020	
s4b2438.d	WBN100205-23.1	JMB3	25-FEB-2010 04:13	ICAL	s022410a	1.0 PEST040	
s4b2439.d	WBN100205-22	JMB3	25-FEB-2010 04:34	ICAL	s022410a	1.0 PEST050	
s4b2440.d	WBN100205-21	JMB3	25-FEB-2010 04:56	ICAL	s022410a	1.0 PEST080	
s4b2441.d	WBN100205-20	JMB3	25-FEB-2010 05:18	ICAL	s022410a	1.0 PEST100	
s4b2442.d	WBN100205-19	JMB3	25-FEB-2010 05:39	ICAL	s022410a	1.0 PEST120	
s4b2443.d	WBN100215-09.1	JMB3	25-FEB-2010 06:01	ICV	s022410a	1.0 MEGA1CV	DUSE
s4b2444.d	WBN100218-08.1	JMB3	25-FEB-2010 06:28	ICV	s022410a	1.0 AP1CV	DUSE
s4b2445-D.d	WBN100205-25.1	JMB3	25-FEB-2010 06:49	ICV	s022410a	1.0 PESTICV	8270d PEST ICV
s4b2445.d	WBN100205-25.1	JMB3	25-FEB-2010 06:49	ICV	s022410a	1.0 PESTICV	8270c PEST ICV
s4b2446-D.d	WBN100207-01	JMB3	25-FEB-2010 09:00	DFTPP	s022410a	1.0 DFTPP	8270d TUNE: MEGA - AP
s4b2446.d	WBN100207-01	JMB3	25-FEB-2010 09:00	DFTPP	s022410a	1.0 DFTPP	8270c TUNE: MEGA - AP
s4b2447.d	INSTBLANK	JMB3	25-FEB-2010 09:12	IIB	s022410a	1.0 INSTBLANK	
s4b2448.d	WBN100215-08	JMB3	25-FEB-2010 09:39	ICAL	s022410a	1.0 MEG001	
s4b2449-D.d	WBN100215-07	JMB3	25-FEB-2010 10:06	ICAL	s022410a	1.0 MEG010	8270d
s4b2449.d	WBN100215-07	JMB3	25-FEB-2010 10:06	ICAL	s022410a	1.0 MEG010	
s4b2450-D.d	WBN100215-06	JMB3	25-FEB-2010 10:32	ICAL	s022410a	1.0 MEG020	8270d
s4b2450.d	WBN100215-06	JMB3	25-FEB-2010 10:32	ICAL	s022410a	1.0 MEG020	

Is4b2451.d	WBN100215-05.1	JMB3	25-FEB-2010 10:59	ICAL	Is022410a	1.0 MEG040	
Is4b2452.d	WBN100215-04	JMB3	25-FEB-2010 11:26	ICAL	Is022410a	1.0 MEG050	
Is4b2453.d	WBN100215-03	JMB3	25-FEB-2010 11:52	ICAL	Is022410a	1.0 MEG080	
Is4b2454.d	WBN100215-02	JMB3	25-FEB-2010 12:19	ICAL	Is022410a	1.0 MEGA100	
Is4b2455.d	WBN100215-01	JMB3	25-FEB-2010 12:46	ICAL	Is022410a	1.0 MEGA120	
Is4b2456.d	WBN100218-01	JMB3	25-FEB-2010 13:38	ICAL	Is022410a	1.0 AP010	
Is4b2457.d	WBN100218-02	JMB3	25-FEB-2010 14:00	ICAL	Is022410a	1.0 AP020	
Is4b2458.d	WBN100218-03.1	JMB3	25-FEB-2010 14:21	ICAL	Is022410a	1.0 AP040	
Is4b2459.d	WBN100218-04	JMB3	25-FEB-2010 14:43	ICAL	Is022410a	1.0 AP050	
Is4b2460.d	WBN100218-05	JMB3	25-FEB-2010 15:05	ICAL	Is022410a	1.0 AP080	
Is4b2461.d	WBN100218-06	JMB3	25-FEB-2010 15:27	ICAL	Is022410a	1.0 AP0100	
Is4b2462.d	WBN100218-07	JMB3	25-FEB-2010 15:48	ICAL	Is022410a	1.0 AP120	
Is4b2463-D.d	WBN100215-09.1	JMB3	25-FEB-2010 16:10	ICV	Is022410a	1.0 MEGAICV	8270d MEGA ICV
Is4b2463.d	WBN100215-09.1	JMB3	25-FEB-2010 16:10	ICV	Is022410a	1.0 MEGAICV	8270c MEGA ICV
Is4b2464.d	WBN100218-08.1	JMB3	25-FEB-2010 16:37	ICV	Is022410a	1.0 APICV	DUSE
Is4b2465-B.d	WBN100218-08.1	JMB3	25-FEB-2010 17:05	ICV	Is022410a	1.0 APICV	8270d AP ICV
Is4b2465.d	WBN100218-08.1	JMB3	25-FEB-2010 17:05	ICV	Is022410a	1.0 APICV	8270c AP ICV

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD/

DATE: 02/25/2010 METHOD: See raw data OPERATOR: JMB3 REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D
Multiplier Voltage: 1965 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100217-01
CALIBRATION & QC INFORMATION:
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23 Sequence Number: /chem/MSD7.i/s022610.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s7b2601-D.d	WBN100207-01	JMB3	126-FEB-2010 10:23	DFTPP	s022610	1.0	DFTPP	8270d TUNE: MEGA
s7b2601.d	WBN100207-01	JMB3	126-FEB-2010 10:23	DFTPP	s022610	1.0	DFTPP	8270c TUNE: MEGA
s7b2602.d	INSTBLANK	JMB3	126-FEB-2010 10:35	IB	s022610	1.0	INSTBLANK	
s7b2603.d	WBN100225-08	JMB3	126-FEB-2010 11:07	ICAL	s022610	1.0	MEGA00	
s7b2604.d	WBN100225-07	JMB3	126-FEB-2010 11:31	ICAL	s022610	1.0	MEGA010	DUSE: see s7b2612
s7b2605.d	WBN100225-06	JMB3	126-FEB-2010 11:55	ICAL	s022610	1.0	MEGA020	DUSE: see s7b2613
s7b2606.d	WBN100225-05.1	JMB3	126-FEB-2010 12:19	ICAL	s022610	1.0	MEGA040	
s7b2607.d	WBN100225-04	JMB3	126-FEB-2010 12:43	ICAL	s022610	1.0	MEGA050	
s7b2608.d	WBN100225-03	JMB3	126-FEB-2010 13:07	ICAL	s022610	1.0	MEGA080	
s7b2609.d	WBN100225-02	JMB3	126-FEB-2010 13:32	ICAL	s022610	1.0	MEGA100	
s7b2610.d	WBN100225-01	JMB3	126-FEB-2010 13:56	ICAL	s022610	1.0	MEGA120	
s7b2611.d	INSTBLANK	JMB3	126-FEB-2010 14:19	IB	s022610	1.0	INSTBLANK	
s7b2612-D.d	WBN100225-07	JMB3	126-FEB-2010 14:44	ICAL	s022610	1.0	MEGA010	8270d
s7b2612.d	WBN100225-07	JMB3	126-FEB-2010 14:44	ICAL	s022610	1.0	MEGA010	
s7b2613-D.d	WBN100225-06	JMB3	126-FEB-2010 15:08	ICAL	s022610	1.0	MEGA020	8270d
s7b2613.d	WBN100225-06	JMB3	126-FEB-2010 15:08	ICAL	s022610	1.0	MEGA020	
s7b2614-625.d	WBN100225-09.1	JMB3	126-FEB-2010 15:33	ICV	s022610	1.0	MEGAICV	625 MEGA ICV
s7b2614-D.d	WBN100225-09.1	JMB3	126-FEB-2010 15:33	ICV	s022610	1.0	MEGAICV	8270d MEGA ICV
s7b2614.d	WBN100225-09.1	JMB3	126-FEB-2010 15:33	ICV	s022610	1.0	MEGAICV	8270c MEGA ICV

1s7b2615-D.d	WBN100207-01	JMB3	126-FEB-2010 16:00	1DFTPP	1s022610	1.0 DFTPP	8270d TUNE: AP - PEST - NEV
1s7b2615.d	WBN100207-01	JMB3	126-FEB-2010 16:00	1DFTPP	1s022610	1.0 DFTPP	8270c TUNE: AP - PEST - NEV
1s7b2616.d	INSTBLANK	JMB3	126-FEB-2010 16:13	IB	1s022610	1.0 INSTBLANK	
1s7b2617-D.d	WBN100218-01	JMB3	126-FEB-2010 16:34	ICAL	1s022610	1.0 AP010	8270d
1s7b2617.d	WBN100218-01	JMB3	126-FEB-2010 16:34	ICAL	1s022610	1.0 AP010	
1s7b2618.d	WBN100218-02	JMB3	126-FEB-2010 16:56	ICAL	1s022610	1.0 AP020	
1s7b2619.d	WBN100218-03.1	JMB3	126-FEB-2010 17:17	ICAL	1s022610	1.0 AP040	
1s7b2620.d	WBN100218-04	JMB3	126-FEB-2010 17:39	ICAL	1s022610	1.0 AP050	
1s7b2621.d	WBN100218-05	JMB3	126-FEB-2010 18:00	ICAL	1s022610	1.0 AP080	
1s7b2622.d	WBN100218-06	JMB3	126-FEB-2010 18:22	ICAL	1s022610	1.0 AP100	
1s7b2623.d	WBN100218-07	JMB3	126-FEB-2010 18:43	ICAL	1s022610	1.0 AP120	
1s7b2624.d	WBN100205-25	JMB3	126-FEB-2010 19:05	ICAL	1s022610	1.0 PEST010	
1s7b2625.d	WBN100205-24	JMB3	126-FEB-2010 19:26	ICAL	1s022610	1.0 PEST020	
1s7b2626.d	WBN100205-23.1	JMB3	126-FEB-2010 19:48	ICAL	1s022610	1.0 PEST040	
1s7b2627.d	WBN100205-22	JMB3	126-FEB-2010 20:09	ICAL	1s022610	1.0 PEST050	
1s7b2628.d	WBN100205-21	JMB3	126-FEB-2010 20:31	ICAL	1s022610	1.0 PEST080	
1s7b2629.d	WBN100205-20	JMB3	126-FEB-2010 20:52	ICAL	1s022610	1.0 PEST100	
1s7b2630.d	WBN100205-19	JMB3	126-FEB-2010 21:14	ICAL	1s022610	1.0 PEST120	
1s7b2631.d	UBN100127-01	JMB3	126-FEB-2010 21:36	ICAL	1s022610	1.0 NEV010	
1s7b2632.d	UBN100127-02	JMB3	126-FEB-2010 21:58	ICAL	1s022610	1.0 NEV020	
1s7b2633.d	UBN100127-03	JMB3	126-FEB-2010 22:19	ICAL	1s022610	1.0 NEV040	
1s7b2634.d	UBN100127-04	JMB3	126-FEB-2010 22:40	ICAL	1s022610	1.0 NEVC50	
1s7b2635.d	UBN100127-05	JMB3	126-FEB-2010 23:02	ICAL	1s022610	1.0 NEVC80	
1s7b2636.d	UBN100127-06	JMB3	126-FEB-2010 23:24	ICAL	1s022610	1.0 NEV100	
1s7b2637.d	UBN100127-07	JMB3	126-FEB-2010 23:46	ICAL	1s022610	1.0 NEV120	
1s7b2638-625.d	WBN100218-08.1	JMB3	127-FEB-2010 00:07	ICV	1s022610	1.0 APICV	625 AP ICV
1s7b2638-D.d	WBN100218-08.1	JMB3	127-FEB-2010 00:07	ICV	1s022610	1.0 APICV	8270d AP ICV

1s7b2638.d	WBN100218-08.1	JMB3	27-FEB-2010 00:07	ICV	s022610	1.0 APICV	8270d AP ICV	
1s7b2639-625.d	WBN100205-26.1	JMB3	27-FEB-2010 00:29	ICV	s022610	1.0 PESTICV	625 PEST ICV	
1s7b2639-D.d	WBN100205-26.1	JMB3	27-FEB-2010 00:29	ICV	s022610	1.0 PESTICV	8270d PEST ICV	
1s7b2639.d	WBN100205-26.1	JMB3	27-FEB-2010 00:29	ICV	s022610	1.0 PESTICV	8270c PEST ICV	
1s7b2640-625.d	WBN100225-05.2	JMB3	27-FEB-2010 00:50	ICVS	s022610	1.0 MEGACVS	DUSE: 625 MEGA CVS - fails some analytes >20%	
1s7b2641-625.d	WBN100218-03.1	JMB3	27-FEB-2010 01:15	ICVS	s022610	1.0 APCVS	DUSE: 625 AP CVS	
1s7b2642-625.d	WBN100225-05.1	JMB3	27-FEB-2010 08:38	ICVS	s022610	1.0 MEGACVS	DUSE: 625 MEGA CVS - fails some analytes >20%	

Instrument Batch: /chem/MSD7.i/s022610.b

DATA EXCEPTION REPORT

Mo. Day Yr. 05-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: SEMIVOA GC/MS	Test / Method: SW846 8270C	Matrix Type: Solid	Client Code: LANL
Batch ID: 956285	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 247332(10-1905),247358(10-1914),247556(10-1953)

Application Issues:

Failed Recovery for MS/PS
Failed RPD for MS/MSD, or PS/PSD
Container scanning event for custody missed
Failed Recovery for MSD/PSD
Failed Yield for Surrogates

Specification and Requirements Exception Description:	DER Disposition:
<p>1. Sample 247332005 recovered 2,4,6-Tribromophenol at 32%. The limits are 37%-106%.</p> <p>2. The MS(1202050558) and MSD(1202050559) recovered spike analytes outside of the established acceptance limits. Please see the QC summary report for specific failures.</p> <p>3. The RPD values for the MS(1202050558)/MSD(1202050559) pair were outside of the established acceptance limits. Please see the QC summary report for specific failures.</p> <p>4. The container scanning event for custody was missed for the following samples: 247556001, 247556002, 247556003, 247556004, and 247556005.</p>	<p>1. The indicated sample was re-extracted out of holding and passed all surrogate recoveries. Data for this sample are reported from both sets of extractions.</p> <p>2. As the MS and MSD displayed similar recoveries, the failures were attributed to sample matrix interference and the data have been reported.</p> <p>3. The RPD failures were attributed to matrix interference and the data results have been reported.</p> <p>4. The analyst did not scan samples into his/her custody. The analyst had physical custody of the sample during the analysis.</p>

Originator's Name:

Josh Brooks 05-MAR-10

Data Validator/Group Leader:

Barbara Bailey 09-MAR-10

DATA EXCEPTION REPORT

Mo. Day Yr.
08-MAR-10

Division:
Industrial

Quality Criteria:
Specifications

Type:
Process

Instrument Type:
SEMIVOA GC/MS

Test / Method:
SW846 8270C

Matrix Type:
Solid

Client Code:
LANL

Batch ID:
961919

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 247116(10-1839),247332(10-1905)

Application Issues:

Failed Recovery for LCS/LCSD

**Specification and Requirements
Exception Description:**

1. LCS 1202063248 failed spike recovery limits for 2,4-Dinitrophenol at 139% (SPC limits: 18%-127%) and 2-Methyl-4,6-dinitrophenol at 119% (SPC limits: 32%-117%).
2. Sample 247332005 was re-extracted out of holding from batch 956285 due to surrogate failures.

DER Disposition:

1. The indicated analytes accounted for less than 5% of the total number of requested spiking analytes. That satisfied the clients acceptance criteria and the data have been reported.
2. Since the re-extraction did not confirm the surrogate failures, both sets of data results have been reported.

Originator's Name:

Josh Brooks

08-MAR-10

Data Validator/Group Leader:

Barbara Bailey

09-MAR-10

Data File: /chem/MSD4.i/s030410a.b/s4c0435.d
Report Date: 05-Mar-2010 08:37

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Data file : /chem/MSD4.i/s030410a.b/s4c0435.d
Lab Smp Id: 1202050558 Client Smp ID: RE16-10-1514MS
Inj Date : 05-MAR-2010 01:17
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202050558|956285|1|SVM|1|MS_LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
Als bottle: 27 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1953.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	11.25160	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN	FINAL
	=====	==	=====	=====	(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829 (1.000)	169492	40.0000	
* 29 Naphthalene-d8	136	4.690	4.690 (1.000)	722002	40.0000	
* 46 Acenaphthene-d10	164	5.941	5.941 (1.000)	359081	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936 (1.000)	649096	40.0000	
* 91 Chrysene-d12	240	8.616	8.610 (1.000)	443676	40.0000	
* 98 Perylene-d12	264	10.065	10.070 (1.000)	199536	40.0000	
\$ 3 2-Fluorophenol	112	3.021	3.021 (0.790)	201212	51.0350	1920
\$ 5 Phenol-d5	99	3.550	3.545 (0.929)	242274	49.2431	1850
\$ 20 Nitrobenzene-d5	82	4.187	4.192 (0.893)	78852	15.3192	575 (R)
\$ 39 2-Fluorobiphenyl	172	5.433	5.433 (0.914)	238473	24.7302	929
\$ 60 2,4,6-Tribromophenol	329	6.487	6.481 (1.092)	67548	63.9986	2400
\$ 81 p-Terphenyl-d14	244	7.861	7.861 (0.912)	243062	34.3422	1290

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	3.556	3.556	(0.930)	129924	25.5156	958
8 2-Chlorophenol	128	3.695	3.695	(0.966)	94972	21.7152	816
11 1,4-Dichlorobenzene	146	3.834	3.839	(1.003)	78644	14.9919	563
17 N-Nitrosodipropylamine	70	4.064	4.069	(1.063)	71651	21.8625	821 (Q)
28 1,2,4-Trichlorobenzene	180	4.641	4.641	(0.990)	86538	20.5337	771
33 4-Chloro-3-methylphenol	107	5.048	5.037	(1.076)	80173	23.5928	886
47 Acenaphthene	154	5.968	5.968	(1.004)	226242	26.8860	1010
50 2,4-Dinitrotoluene	165	6.053	6.054	(1.019)	64817	25.6004	962
52 4-Nitrophenol	139	6.000	5.989	(1.010)	30017	27.1121	1020
65 Pentachlorophenol	266	6.808	6.802	(0.981)	30154	27.9364	1050
79 Pyrene	202	7.813	7.813	(0.907)	342093	28.7743	1080
2 Pyridine	79	2.411	2.384	(0.631)	69355	18.3289	688
4 Aniline	66	3.609	3.615	(0.944)	44390	20.6885	777 (Q)
7 bis(2-Chloroethyl) ether	63	3.625	3.631	(0.948)	74634	21.9263	824 (Q)
9 1,3-Dichlorobenzene	146	3.786	3.791	(0.990)	94489	19.1590	720
12 Benzyl alcohol	108	3.919	3.898	(1.025)	64793	26.9492	1010 (Q)
13 1,2-Dichlorobenzene	146	3.935	3.941	(1.029)	85413	18.1306	681
14 bis(2-Chloroisopropyl) ether	45	3.968	3.973	(1.038)	139011	24.0973	905
15 o-Cresol	107	3.951	3.946	(1.034)	61223	17.3996	654 (Q)
18 m,p-Cresols	107	4.048	4.053	(1.059)	113149	26.7800	1000
19 Hexachloroethane	117	4.165	4.165	(1.090)	26736	13.7339	516
21 Nitrobenzene	77	4.203	4.203	(0.896)	102149	20.8384	783
22 Isophorone	82	4.358	4.358	(0.929)	185342	20.6046	774
23 2-Nitrophenol	139	4.417	4.417	(0.942)	55627	22.7282	854
24 2,4-Dimethylphenol	122	4.417	4.412	(0.942)	105857	25.9674	975
25 bis(2-Chloroethoxy)methane	93	4.476	4.481	(0.954)	107693	20.1192	756
26 2,4-Dichlorophenol	162	4.577	4.577	(0.976)	76327	21.8066	819
27 Benzoic acid	105	4.486	4.476	(0.957)	124100	50.0295	1880
30 Naphthalene	128	4.706	4.706	(1.003)	342611	23.8927	897
31 4-Chloroaniline	127	4.727	4.727	(1.008)	147879	22.3807	841
32 Hexachlorobutadiene	225	4.770	4.770	(1.017)	43123	17.8642	671
34 2-Methylnaphthalene	142	5.187	5.187	(1.106)	228522	25.9702	975
36 Hexachlorocyclopentadiene	237	5.289	5.289	(0.890)	7705	10.9752	412 (R)
37 2,4,6-Trichlorophenol	196	5.380	5.380	(0.905)	71704	28.1612	1060
38 2,4,5-Trichlorophenol	196	5.412	5.406	(0.911)	69827	26.5154	996
40 2-Chloronaphthalene	162	5.540	5.540	(0.932)	183368	22.5974	849
42 o-Nitroaniline	65	5.604	5.604	(0.943)	55330	24.1669	908
41 m-Nitroaniline	138	5.898	5.898	(0.993)	51766	28.4362	1070
43 Dimethylphthalate	163	5.711	5.711	(0.961)	236085	25.5706	960
44 2,6-Dinitrotoluene	165	5.770	5.770	(0.971)	49222	23.2465	873
45 Acenaphthylene	152	5.845	5.845	(0.984)	351599	28.0102	1050
48 2,4-Dinitrophenol	184	5.968	5.968	(1.004)	17720	28.3142	1060
49 Dibenzofuran	168	6.086	6.086	(1.024)	293491	26.5448	997
51 Diethylphthalate	149	6.198	6.198	(1.043)	255879	28.4860	1070
53 Fluorene	166	6.321	6.321	(1.064)	276239	29.6232	1110
54 4-Chlorophenylphenylether	204	6.300	6.300	(1.060)	121506	27.1327	1020
55 2-Methyl-4,6-dinitrophenol	198	6.337	6.337	(0.914)	29423	23.6422	888

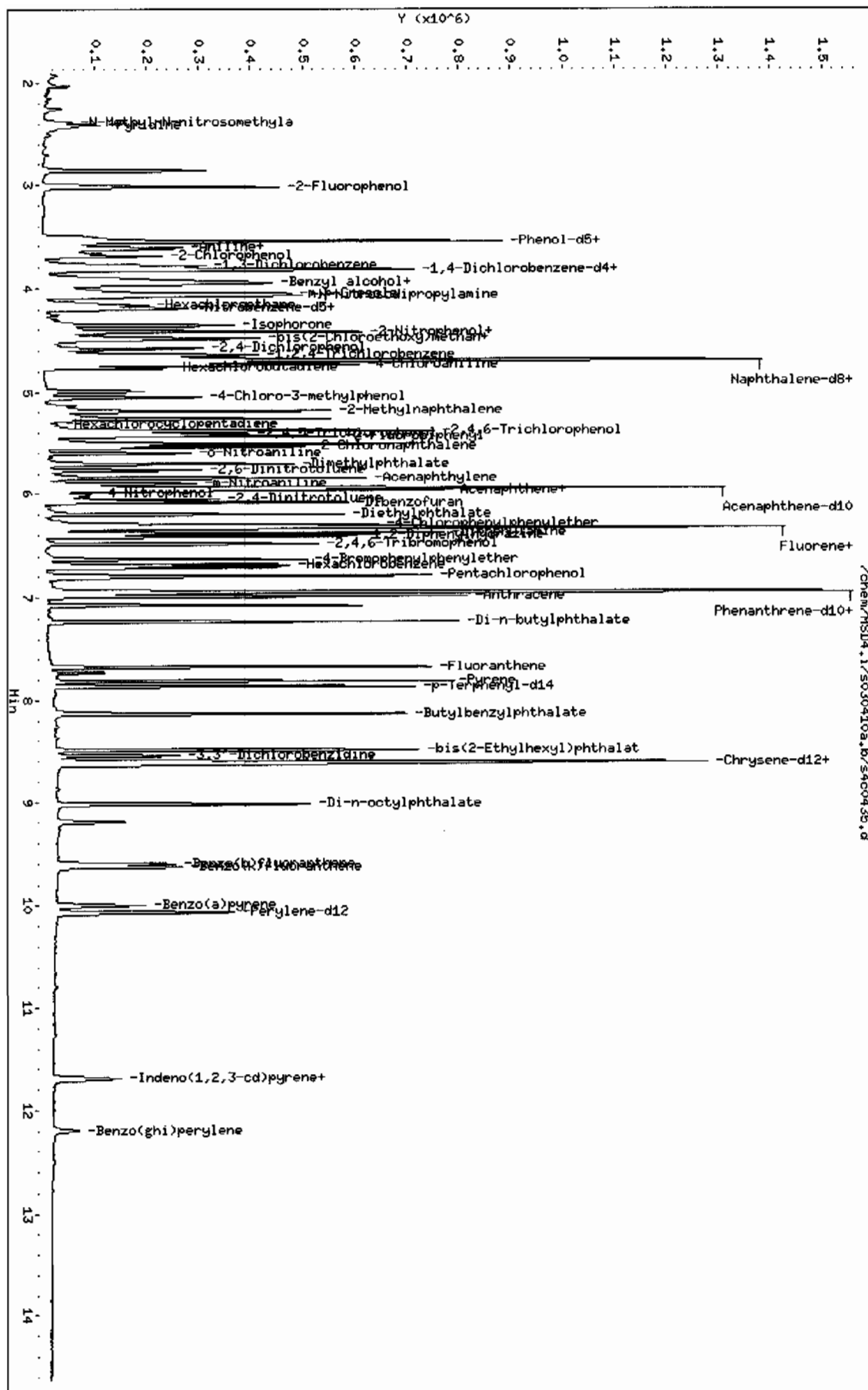
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	6.326	6.321	(1.065)	60251	33.6842	1260
133 Diphenylamine	169	6.380	6.380	(0.920)	222168	26.4168	992
58 1,2-Diphenylhydrazine	77	6.407	6.407	(0.924)	272577	25.6101	962
61 4-Bromophenylphenylether	248	6.626	6.626	(0.955)	69012	24.1806	908
63 Hexachlorobenzene	284	6.685	6.685	(0.964)	69622	23.0567	866
68 Phenanthrene	178	6.952	6.952	(1.002)	392859	27.2603	1020
69 Anthracene	178	6.984	6.984	(1.007)	365510	26.3504	990
72 Di-n-butylphthalate	149	7.230	7.230	(1.042)	462016	30.4953	1140
76 Fluoranthene	202	7.674	7.669	(1.106)	345201	26.7935	1010
85 Butylbenzylphthalate	149	8.134	8.129	(0.944)	175966	32.8795	1230
89 Benzo(a)anthracene	228	8.605	8.600	(0.999)	259738	25.4939	958
90 3,3'-Dichlorobenzidine	252	8.546	8.546	(0.992)	61922	22.5203	846
92 Chrysene	228	8.632	8.632	(1.002)	222408	23.0217	865
93 bis(2-Ethylhexyl)phthalate	149	8.492	8.493	(0.986)	237749	31.1015	1170
94 Di-n-octylphthalate	149	9.022	9.022	(0.896)	299651	37.4119	1400
95 Benzo(b)fluoranthene	252	9.600	9.600	(0.954)	133766	26.3597	990
96 Benzo(k)fluoranthene	252	9.632	9.632	(0.957)	138634	26.2634	986
97 Benzo(a)pyrene	252	9.995	10.001	(0.993)	99323	24.6288	925
99 Indeno(1,2,3-cd)pyrene	276	11.691	11.702	(1.162)	66860	20.1505	757
100 Dibenzo(a,h)anthracene	278	11.696	11.707	(1.162)	58657	21.2571	798
101 Benzo(ghi)perylene	276	12.199	12.204	(1.212)	47388	17.7044	665
1 N-Methyl-N-nitrosomethylamine	74	2.384	2.352	(0.624)	55883	20.3156	763

QC Flag Legend

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

Data File: /chem/MSD4.i/s030410a.b/s400435.d
 Date : 05-MAR-2010 01:17
 Client ID: REL6-10-1514MS
 Sample Info: 11202050558195628511SVH11MS.LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD4.i
 Operator: JHB3
 Column diameter: 0.20



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Data file : /chem/MSD4.i/s030410a.b/s4c0436.d
 Lab Smp Id: 1202050559 Client Smp ID: RE16-10-1514MSD
 Inj Date : 05-MAR-2010 01:39
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |1202050559|956285|1|SVM|1|MSD_LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s030410a.b/MSD4-M8270C-AQA-022810.m
 Meth Date : 05-Mar-2010 07:51 jos00786 Quant Type: ISTD
 Cal Date : 28-FEB-2010 13:51 Cal File: s4b2808.d
 Als bottle: 28 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1953.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	11.25160	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.823	3.829 (1.000)	177329	40.0000	
* 29 Naphthalene-d8	136	4.690	4.690 (1.000)	704232	40.0000	
* 46 Acenaphthene-d10	164	5.941	5.941 (1.000)	377404	40.0000	
* 67 Phenanthrene-d10	188	6.936	6.936 (1.000)	640356	40.0000	
* 91 Chrysene-d12	240	8.589	8.610 (1.000)	410824	40.0000	
* 98 Perylene-d12	264	10.033	10.070 (1.000)	199789	40.0000	
\$ 3 2-Fluorophenol	112	3.031	3.021 (0.793)	175401	42.5222	1600
\$ 5 Phenol-d5	99	3.550	3.545 (0.929)	231439	44.9619	1690
\$ 20 Nitrobenzene-d5	82	4.187	4.192 (0.893)	91035	18.1324	680
\$ 39 2-Fluorobiphenyl	172	5.433	5.433 (0.914)	214405	21.1548	794
\$ 60 2,4,6-Tribromophenol	329	6.481	6.481 (1.091)	68198	61.4774	2310
\$ 81 p-Terphenyl-d14	244	7.856	7.861 (0.915)	238227	36.3506	1360

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
6 Phenol		94	3.556	3.556	(0.930)	120900	22.6940	852
8 2-Chlorophenol		128	3.695	3.695	(0.966)	90155	19.7028	739
11 1,4-Dichlorobenzene		146	3.834	3.839	(1.003)	67210	12.2460	459 (R)
17 N-Nitrosodipropylamine		70	4.064	4.069	(1.063)	78407	22.8666	858 (Q)
28 1,2,4-Trichlorobenzene		180	4.636	4.641	(0.989)	70817	17.2274	646
33 4-Chloro-3-methylphenol		107	5.048	5.037	(1.076)	82018	24.7448	928
47 Acenaphthene		154	5.963	5.968	(1.004)	205882	23.2786	873
50 2,4-Dinitrotoluene		165	6.053	6.054	(1.019)	65743	24.7055	927
52 4-Nitrophenol		139	6.005	5.989	(1.011)	24153	22.5173	845
65 Pentachlorophenol		266	6.808	6.802	(0.981)	27382	26.3869	990
79 Pyrene		202	7.802	7.813	(0.908)	335708	30.4953	1140
2 Pyridine		79	2.416	2.384	(0.632)	49861	12.5947	472
4 Aniline		66	3.609	3.615	(0.944)	36026	16.0483	602
7 bis(2-Chloroethyl) ether		63	3.625	3.631	(0.948)	64009	17.9737	674
9 1,3-Dichlorobenzene		146	3.791	3.791	(0.992)	57162	11.0782	416 (R)
13 1,2-Dichlorobenzene		146	3.935	3.941	(1.029)	67175	13.6290	511 (R)
14 bis(2-Chloroisopropyl) ether		45	3.967	3.973	(1.038)	112139	18.5800	697 (Q)
15 o-Cresol		107	3.951	3.946	(1.034)	108711	29.5302	1110
18 m,p-Cresols		107	4.048	4.053	(1.059)	124032	28.0584	1050
19 Hexachloroethane		117	4.165	4.165	(1.090)	20108	9.87273	370 (aR)
21 Nitrobenzene		77	4.203	4.203	(0.896)	90798	18.9902	712
22 Isophorone		82	4.353	4.358	(0.928)	189349	21.5813	810
23 2-Nitrophenol		139	4.417	4.417	(0.942)	52593	22.0307	827
24 2,4-Dimethylphenol		122	4.411	4.412	(0.941)	99865	25.1157	942
25 bis(2-Chloroethoxy)methane		93	4.476	4.481	(0.954)	112719	21.5895	810
26 2,4-Dichlorophenol		162	4.577	4.577	(0.976)	79540	23.2979	874
27 Benzoic acid		105	4.481	4.476	(0.956)	119400	49.4894	1860
30 Naphthalene		128	4.706	4.706	(1.003)	277420	19.8346	744
31 4-Chloroaniline		127	4.727	4.727	(1.008)	132257	20.5215	770
32 Hexachlorobutadiene		225	4.764	4.770	(1.016)	34673	14.7261	552
34 2-Methylnaphthalene		142	5.187	5.187	(1.106)	194571	22.6698	851
36 Hexachlorocyclopentadiene		237	5.289	5.289	(0.890)	5978	9.91714	372 (aR)
37 2,4,6-Trichlorophenol		196	5.380	5.380	(0.905)	67699	25.2974	949
38 2,4,5-Trichlorophenol		196	5.412	5.406	(0.911)	68952	25.2888	949
40 2-Chloronaphthalene		162	5.540	5.540	(0.932)	186715	21.8927	821
42 o-Nitroaniline		65	5.604	5.604	(0.943)	56666	23.5488	884
41 m-Nitroaniline		138	5.898	5.898	(0.993)	47510	24.8313	932
43 Dimethylphthalate		163	5.706	5.711	(0.960)	241931	24.9316	935
44 2,6-Dinitrotoluene		165	5.765	5.770	(0.970)	50708	22.7856	855
45 Acenaphthylene		152	5.845	5.845	(0.984)	326461	24.7449	928
48 2,4-Dinitrophenol		184	5.968	5.968	(1.004)	13235	23.6011	886 (Q)
49 Dibenzofuran		168	6.080	6.086	(1.023)	291943	25.1229	943
51 Diethylphthalate		149	6.198	6.198	(1.043)	263918	27.9545	1050
53 Fluorene		166	6.321	6.321	(1.064)	265982	27.1385	1020
54 4-Chlorophenylphenylether		204	6.300	6.300	(1.060)	120902	25.6871	964
55 2-Methyl-4,6-dinitrophenol		198	6.337	6.337	(0.914)	25690	21.7267	815
56 p-Nitroaniline		138	6.326	6.321	(1.065)	62184	33.0771	1240

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
133 Diphenylamine	169	6.380	6.380	(0.920)	229531	27.6648	1040
58 1,2-Diphenylhydrazine	77	6.406	6.407	(0.924)	280670	26.7304	1000
61 4-Bromophenylphenylether	248	6.626	6.626	(0.955)	70052	24.8800	934
63 Hexachlorobenzene	284	6.679	6.685	(0.963)	71558	24.0213	901
68 Phenanthrene	178	6.952	6.952	(1.002)	371747	26.1474	981
69 Anthracene	178	6.984	6.984	(1.007)	359667	26.2831	986
72 Di-n-butylphthalate	149	7.230	7.230	(1.042)	467026	31.2467	1170
76 Fluoranthene	202	7.663	7.669	(1.105)	334592	26.3245	988
85 Butylbenzylphthalate	149	8.113	8.129	(0.945)	172578	34.8250	1310
89 Benzo(a)anthracene	228	8.578	8.600	(0.999)	238663	25.2986	949 (H)
90 3,3'-Dichlorobenzidine	252	8.525	8.546	(0.993)	63886	25.0926	942
92 Chrysene	228	8.610	8.632	(1.002)	232001	25.9350	973
93 bis(2-Ethylhexyl)phthalate	149	8.466	8.493	(0.986)	230585	32.5765	1220
94 Di-n-octylphthalate	149	8.995	9.022	(0.897)	291187	36.4686	1370
95 Benzo(b)fluoranthene	252	9.573	9.600	(0.954)	136824	26.9282	1010 (H)
96 Benzo(k)fluoranthene	252	9.600	9.632	(0.957)	154530	29.2377	1100
97 Benzo(a)pyrene	252	9.963	10.001	(0.993)	108449	26.8577	1010 (H)
99 Indeno(1,2,3-cd)pyrene	276	11.653	11.702	(1.162)	83553	25.1496	944
100 Dibenzo(a,h)anthracene	278	11.659	11.707	(1.162)	71489	25.8746	971
101 Benzo(ghi)perylene	276	12.162	12.204	(1.212)	59379	22.1562	831
1 N-Methyl-N-nitrosomethylamine	74	2.374	2.352	(0.621)	43340	15.0594	565

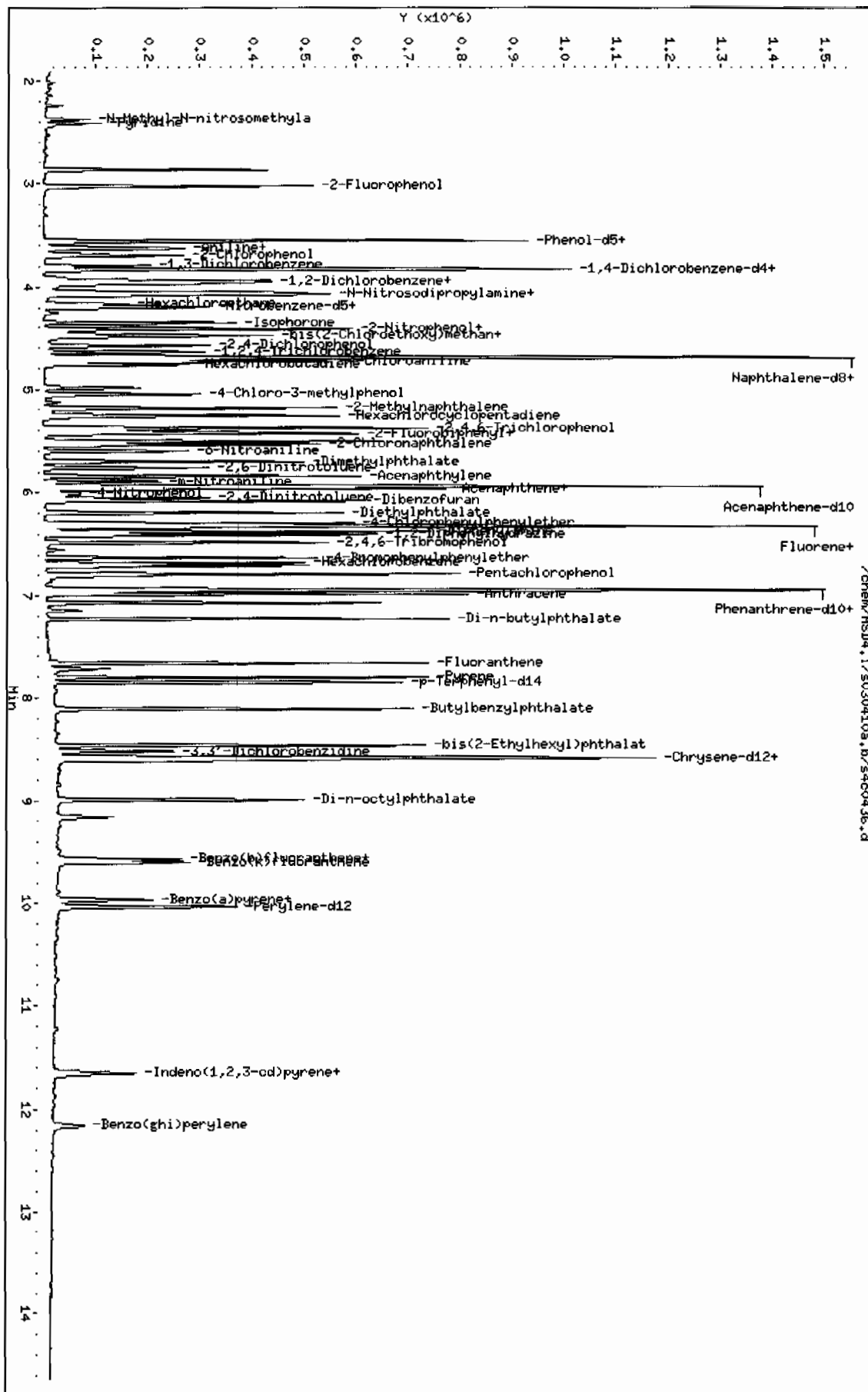
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.i/s030410a.b/s4c0436.d
 Date: 05-MAR-2010 01:39
 Client ID: REL6-10-1514MSD
 Sample Info: 11202050591956286111SVH11MSD.LANL
 Volume Injected (uL): 0.5
 Column phase: 3M DB-SHS

Instrument: MSD4.i
 Operator: JMB3
 Column diameter: 0.20

/chem/MSD4.i/s030410a.b/s4c0436.d



LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1905**

Method/Analysis Information

Procedure: Definitive Low Level Analysis of Nitroaromatic Explosives Utilizing Liquid Chromatography / Mass Spectrometry / Mass Spectrometry (LC/MS/MS) by SW-846 Method 8321 Modified (8321M)

Analytical Method: SW846 8321A Modified

Prep Method: SW846 8330 PREP

Analytical Batch Number: 955063

Prep Batch Number: 955062

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
247332002	RE15-10-8346
247332003	RE15-10-8347
247332004	RE15-10-8344
247332005	RE15-10-8345
247332006	RE15-10-8342
247332007	RE15-10-8343
247332008	RE15-10-8377
1202047525	Method Blank (MB)
1202047526	Laboratory Control Sample (LCS)
1202047527	247332002(RE15-10-8346) Matrix Spike (MS)
1202047528	247332002(RE15-10-8346) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

Primary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

All associated calibration verification standard(s) (ICV or CCV) for this analysis met the acceptance criteria.

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS recovered Tetryl at 20.4%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported. Please see data exception report 817078.

QC Sample Designation

Sample 247332002 (RE15-10-8346) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were outside of the acceptance criteria in QC samples 1202047527 (RE15-10-8346MS) and 1202047528 (RE15-10-8346MSD). Please see the Form 8 in the data package for the exact recoveries. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. Sample re-analysis was not required. The data are reported. Please see data exception report 817078.

Technical Information**Holding Time Specifications**

Samples and QC 247332002(RE15-10-8346), 247332003(RE15-10-8347), 247332004(RE15-10-8344), 247332005(RE15-10-8345), 247332006(RE15-10-8342), 247332007(RE15-10-8343), 247332008(RE15-10-8377), 1202047527(RE15-10-8346MS) and 1202047528(RE15-10-8346MSD) were analyzed out of holding for the Primary analyte analysis. The analytical holding times for the samples in this batch were exceeded due to limitations of instrument capacity. However, these samples were analyzed within two times the analytical holding time of the method. The client was notified of this situation and is in agreement to receive these qualified data. The data are reported. Please see data exception report 817078. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

All associated calibration verification standard(s) (ICV or CCV) for this analysis met the acceptance criteria.

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 247332002 (RE15-10-8346) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered TATB at 206%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 817078.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered TATB at 177%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 817078.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standards were not added to the secondary analyte extracts.

Technical Information**Holding Time Specifications**

All samples in this SDG in this analytical batch for this analysis met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Miscellaneous Information**Data Exception (DER) Documentation**

Data exception report 817078 was generated for this SDG.

The LCS recovered Tetraol at 20.4%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetraol, the data are reported.

The MS recovered TATB at 206%. The MSD recovered TATB at 177%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the noted exception is attributed to vagaries in the extraction process. The data are reported.

The internal standard responses were outside of the acceptance criteria in QC samples 1202047527 (RE15-10-8346MS) and 1202047528 (RE15-10-8346MSD). Please see the Form 8 in the data package for the exact recoveries. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. Sample re-analysis was not required. The data are reported.

Samples and QC 247332002(RE15-10-8346), 247332003(RE15-10-8347), 247332004(RE15-10-8344), 247332005(RE15-10-8345), 247332006(RE15-10-8342), 247332007(RE15-10-8343), 247332008(RE15-10-8377), 1202047527(RE15-10-8346MS) and 1202047528(RE15-10-8346MSD) were analyzed out of holding for the Primary analyte analysis. The analytical holding times for the samples in this batch were exceeded due to limitations of instrument capacity. However, these samples were analyzed within two times the analytical holding time of the method. The client was notified of this situation and is in agreement to receive these qualified data. The data are reported.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Hebert M. Mauer Date: 04/14/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332002

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412015a

Date Analyzed: 12-APR-10 22:33

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332002

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100133.wiff

Date Analyzed: 12-MAR-10 02:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8347

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332003

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412018a

Date Analyzed: 13-APR-10 00:01

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8347

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332003

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100136.wiff

Date Analyzed: 12-MAR-10 02:51

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8344

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332004

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412019a

Date Analyzed: 13-APR-10 00:31

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8344

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332004

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100137.wiff

Date Analyzed: 12-MAR-10 03:07

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8345

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332005

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412020a

Date Analyzed: 13-APR-10 01:00

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8345

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332005

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100138.wiff

Date Analyzed: 12-MAR-10 03:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8342

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332006

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412021a

Date Analyzed: 13-APR-10 01:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8342

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332006

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100139.wiff

Date Analyzed: 12-MAR-10 03:38

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8343

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332007

Sample Amount 2

Moisture: 4.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412022a

Date Analyzed: 13-APR-10 01:59

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8343

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332007

Sample Amount 2

Moisture: 4.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100140.wiff

Date Analyzed: 12-MAR-10 03:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8377

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332008

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412026a

Date Analyzed: 13-APR-10 03:57

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8377

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332008

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100144.wiff

Date Analyzed: 12-MAR-10 04:56

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247332002	RE15-10-8346	103	70 - 144	
247332002	RE15-10-8346	112	70 - 144	
247332003	RE15-10-8347	95.6	70 - 144	
247332003	RE15-10-8347	107	70 - 144	
247332004	RE15-10-8344	96.2	70 - 144	
247332004	RE15-10-8344	111	70 - 144	
247332005	RE15-10-8345	102	70 - 144	
247332005	RE15-10-8345	114	70 - 144	
247332006	RE15-10-8342	98.9	70 - 144	
247332006	RE15-10-8342	112	70 - 144	
247332007	RE15-10-8343	103	70 - 144	
247332007	RE15-10-8343	113	70 - 144	
247332008	RE15-10-8377	101	70 - 144	
247332008	RE15-10-8377	110	70 - 144	
1202047525	MB for batch 955062	97.5	70 - 144	
1202047525	MB for batch 955062	112	70 - 144	
1202047526	LCS for batch 955062	99.6	70 - 144	
1202047526	LCS for batch 955062	106	70 - 144	
1202047527	RE15-10-8346(247332002MS)	103	70 - 144	
1202047527	RE15-10-8346(247332002MS)	110	70 - 144	
1202047528	RE15-10-8346(247332002MSD)	91	70 - 144	
1202047528	RE15-10-8346(247332002MSD)	112	70 - 144	

DNT = 3,4-Dinitrotoluene

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1905

Extract Batch Code: 955062

Date Extracted: 24-FEB-10

GEL LCS ID: 1202047526

GEL LCSDUP ID:

Analysis Date/Time: 12-APR-10 22:04

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
1,3,5-Trinitrobenzene	5000	3890	77.7					69 – 126
2,4,6-Trinitrotoluene	5000	4600	92					73 – 149
2,4-Dinitrotoluene	5000	5190	104					87 – 137
2,6-Dinitrotoluene	5000	4910	98.2					89 – 120
2-Amino-4,6-dinitrotoluene	5000	4980	99.6					90 – 130
4-Amino-2,6-dinitrotoluene	5000	4810	96.3					84 – 130
HMX	5000	4460	89.2					58 – 138
Nitrobenzene	5000	5130	103					71 – 122
PETN	5000	4690	93.8					64 – 137
RDX	5000	5400	108					81 – 137
Tetryl	5000	1020	20.4 *					51 – 112
m-Dinitrobenzene	5000	5000	99.9					83 – 122
m-Nitrotoluene	5000	4440	88.8					73 – 118
o-Nitrotoluene	5000	4400	87.9					72 – 119
p-Nitrotoluene	5000	4970	99.4					67 – 131

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

* Values outside of QC limits

3B

High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1905

Extract Batch Code: 955062

Date Extracted: 24-FEB-10

GEL LCS ID: 1202047526

GEL LCSDUP ID:

Analysis Date/Time: 12-MAR-10 01:48

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,6-Diamino-4-nitrotoluene	5000	5310	106					64 - 122
3,5-Dinitroaniline	5000	5260	105					70 - 127
TATB	5000	4960	99.2					28 - 162
2,4-Diamino-6-nitrotoluene	5000	5010	100					52 - 114
tris(o-cresyl) phosphate	5000	4740	94.8					84 - 119

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

* Values outside of QC limits

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Extract Batch Code: 955062

Date Extracted: 24-FEB-10

GEL Spike ID: 1202047527

GEL SpikeDup ID: 1202047528

Analysis Date/Time: 12-APR-10 23:02

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
o-Nitrotoluene	5000	0	4440	88.8	3850	77	14.3	30	69 - 123
2-Amino-4,6-dinitrotoluene	5000	0	5180	104	4790	95.8	7.78	30	85 - 137
HMX	5000	0	3730	74.7	4480	89.6	18.1	30	51 - 144
PETN	5000	0	4980	99.6	4150	83	18.1	30	60 - 140
m-Nitrotoluene	5000	0	4330	86.6	4060	81.1	6.5	30	70 - 120
m-Dinitrobenzene	5000	0	4680	93.7	4650	93	7.53	30	85 - 118
Tetryl	5000	0	2380	47.7	3110	62.2	26.5	30	36 - 124
RDX	5000	0	4300	86.1	5520	110	24.8	30	59 - 152
Nitrobenzene	5000	0	4060	81.1	4990	99.8	20.7	30	70 - 122
4-Amino-2,6-dinitrotoluene	5000	0	4610	92.2	4760	95.2	3.18	30	72 - 143
2,6-Dinitrotoluene	5000	0	4990	99.7	4840	96.9	2.86	30	90 - 118
1,3,5-Trinitrobenzene	5000	0	3790	75.9	4770	95.3	22.8	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	4510	90.2	4640	92.8	2.81	30	76 - 144
2,4-Dinitrotoluene	5000	0	5400	108	5300	106	1.91	30	86 - 135
p-Nitrotoluene	5000	0	4860	97.1	4070	81.5	17.5	30	65 - 133

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

3

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Extract Batch Code: 955062

Date Extracted: 24-FEB-10

GEL Spike ID: 1202047527

GEL SpikeDup ID: 1202047528

Analysis Date/Time: 12-MAR-10 02:20

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,4-Diamino-6-nitrotoluene	5000	0	4500	90	4840	96.8	7.28	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	4760	95.2	5000	100	4.92	30	55 - 130
3,5-Dinitroaniline	5000	0	5110	102	5280	106	3.27	30	73 - 129
TATB	5000	0	10300	206 *	8850	177 *	15.1	30	29 - 155
tris(o-cresyl) phosphate	5000	0	4720	94.4	4830	96.6	2.3	30	72 - 127

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

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-APR-10 15:40

GEL Data File: EXP0412001a

Instrument ID: LCMSMS

Column: Phenomenex Ultra[®]carb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	440.355
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	475.584
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 1 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\041210expa.mdb, Time: Tue Apr 13 09:03:30 2010

Calibration: Untitled, Time: Tue Apr 13 11:12:22 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412001a

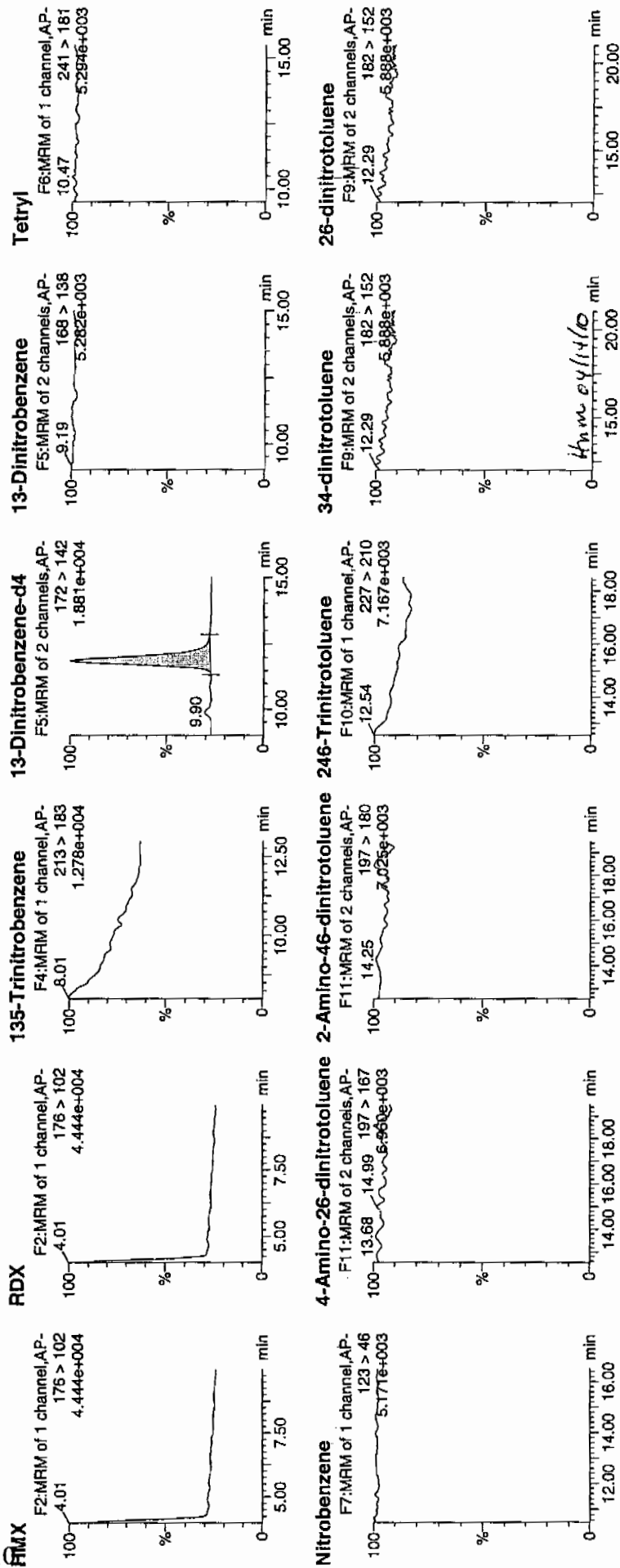
Date: 12-Apr-2010

Time: 15:40:40

ID: XIBLK01

Wtali: 1:1,A

4/13/10

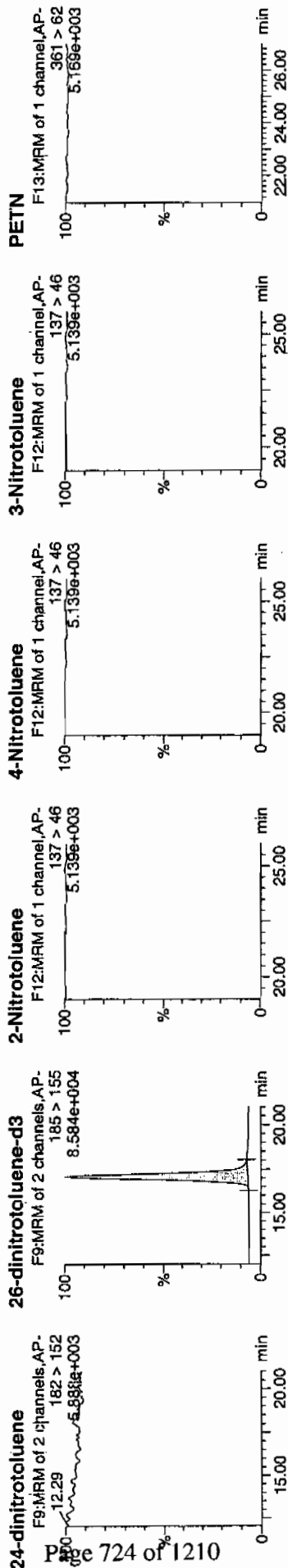


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 2 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	Area	RT	Abs. Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Dev	RT SN
XIBLK01	HMX	176 > 102	5178.896									
XIBLK01	RDX	176 > 102	5178.896									
XIBLK01	135-Trinitrobenzene	213 > 183	5178.896									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	5178.896	11.87	5178.896	5178.896	bb			440.3551	88.1	715.5
XIBLK01	13-Dinitrobenzene	168 > 138	5178.896									
XIBLK01	Tetryl	241 > 181	5178.896									
XIBLK01	Nitrobenzene	123 > 46	33274.848									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167	33274.848									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180	33274.848									
XIBLK01	246-Trinitrotoluene	227 > 210	33274.848									
XIBLK01	34-dinitrotoluene	182 > 152	33274.848									
XIBLK01	26-dinitrotoluene	182 > 152	33274.848									
XIBLK01	24-dinitrotoluene	182 > 152	33274.848									
XIBLK01	26-dinitrotoluene-d3	185 > 155	33274.848	17.06	33274.848	33274.848	bb			475.5835	95.1	2809.6
XIBLK01	2-Nitrotoluene	137 > 46	33274.848									
XIBLK01	4-Nitrotoluene	137 > 46	33274.848									
XIBLK01	3-Nitrotoluene	137 > 46	33274.848									
XIBLK01	PETN	361 > 62	33274.848									

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-APR-10 16:10

GEL Data File: EXP0412002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	473.054
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	498.176
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 3 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412002a

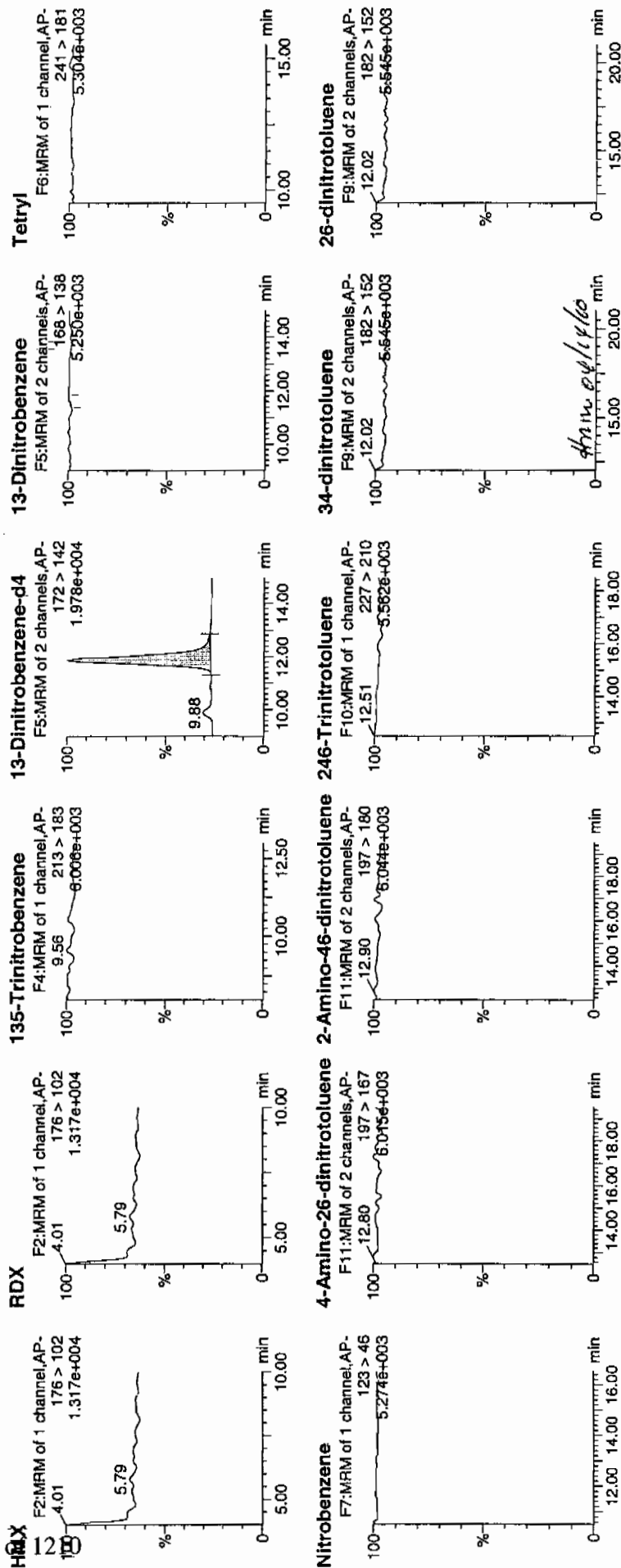
Date: 12-Apr-2010

Time: 16:10:12

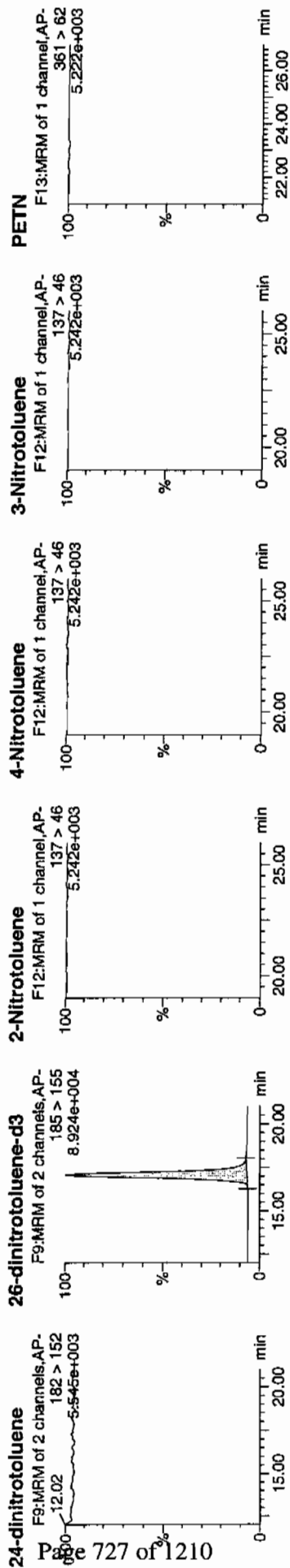
ID: XIBLK01

VR: 1:1,A

WRT
4/13/10



Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 10-MAR-10 15:31

GEL Data File: EXS03100001.wiff

Instrument ID: LCMSMS

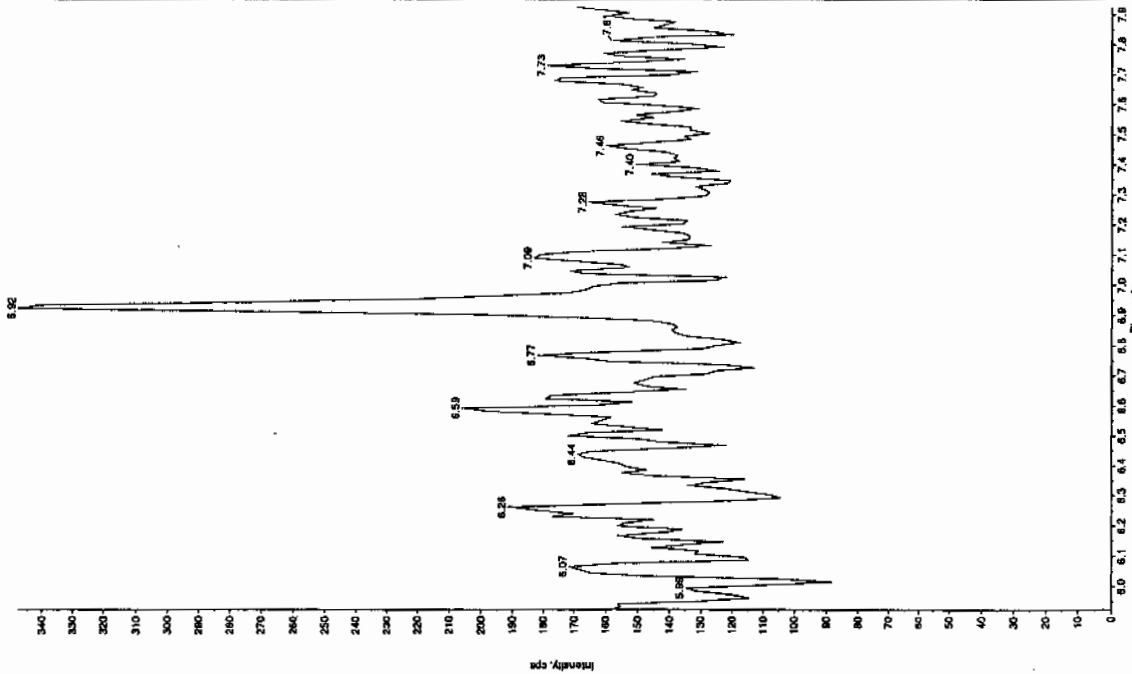
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Diamino-6-nitrotoluene	0	14.6
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	98.2
TATB	0	0
3,5-Dinitroaniline	0	0

Kel 3/13/10

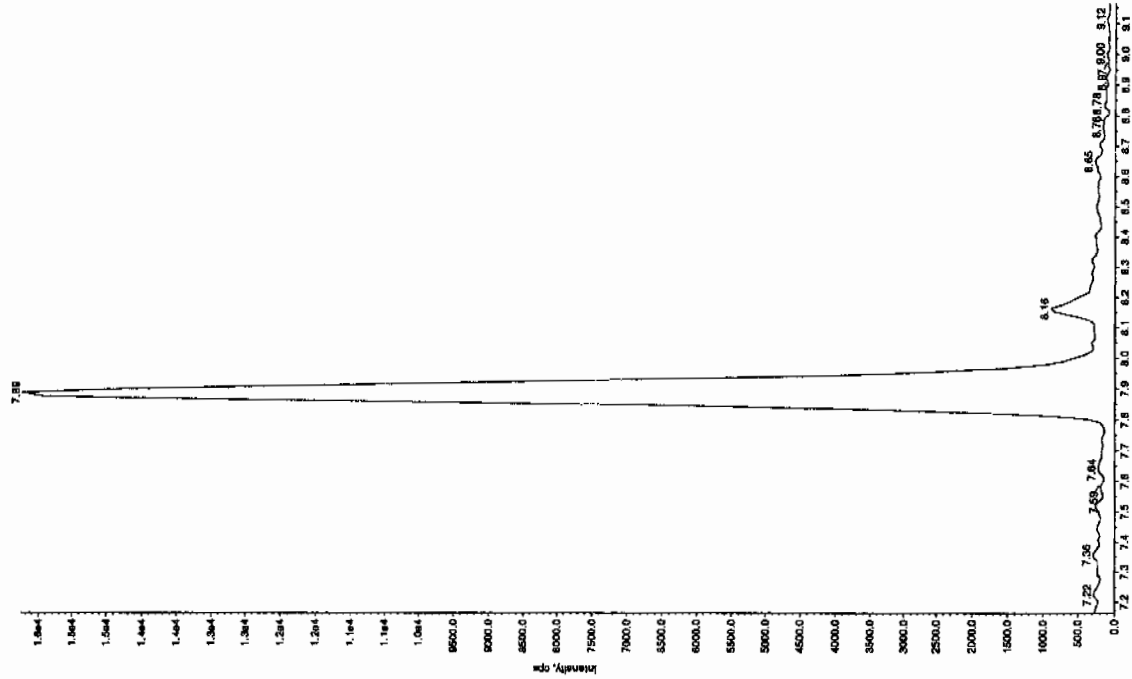
Sample Name: "XIBLK01" Sample ID: "11111" File: "EX503100001.wif"
 Peak Name: "TAIB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 3:31:26 PM
 Modified: No



Sample Name: "XIBLK01" Sample ID: "11111" File: "EX503100001.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_B" Annotation: ""

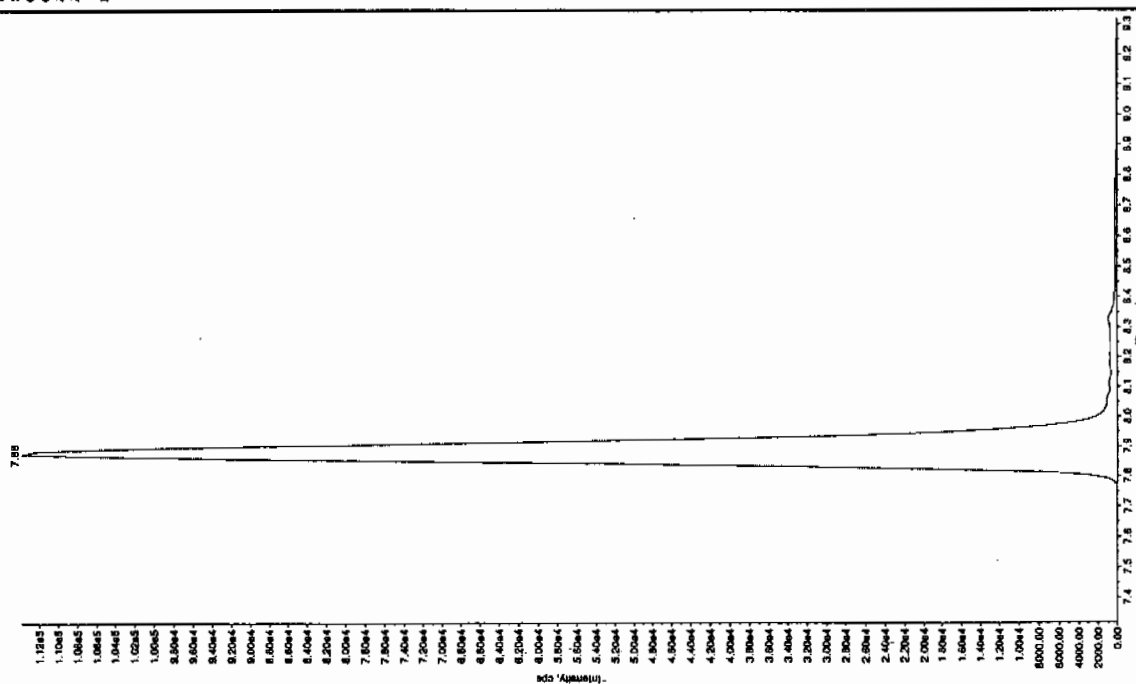
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 3:31:26 PM
 Modified: No



Am 03/13/10

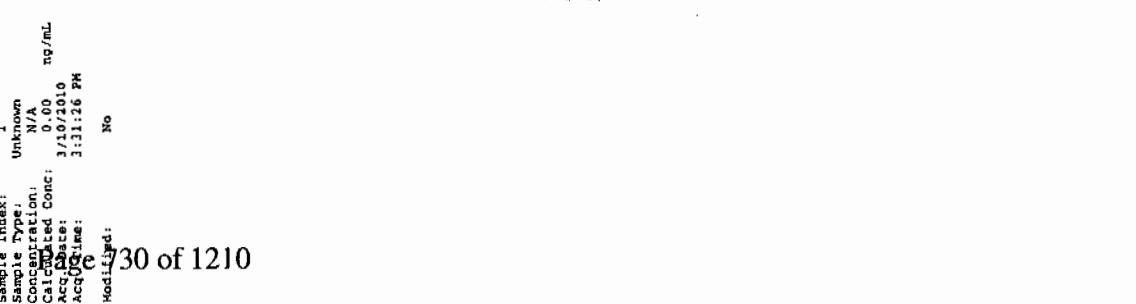
Sample Name: "XBLK01" Sample ID: "111ER" File: "EX503100001.wiff"
 Peak Name: "25-Diethoxy-4-nitrotoluene" Mass(es): "186.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

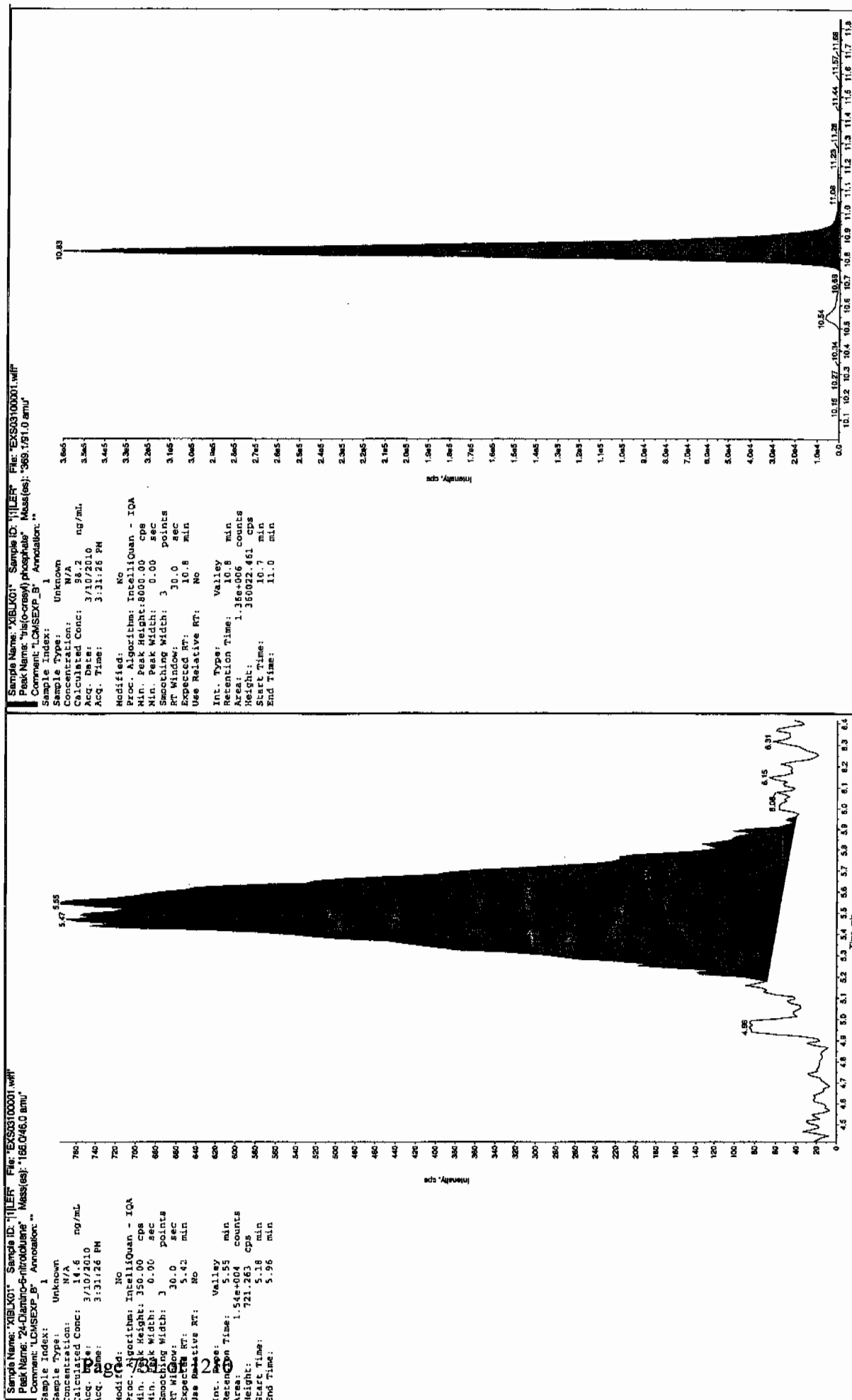
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 3:31:26 PM
 Modified: No



Sample Name: "XBLK01" Sample ID: "111ER" File: "EX503100001.wiff"
 Peak Name: "34-Diethoxy-4-nitrotoluene" Mass(es): "182.1/51.8 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 3:31:26 PM
 Modified: No





Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 10-MAR-10 15:47

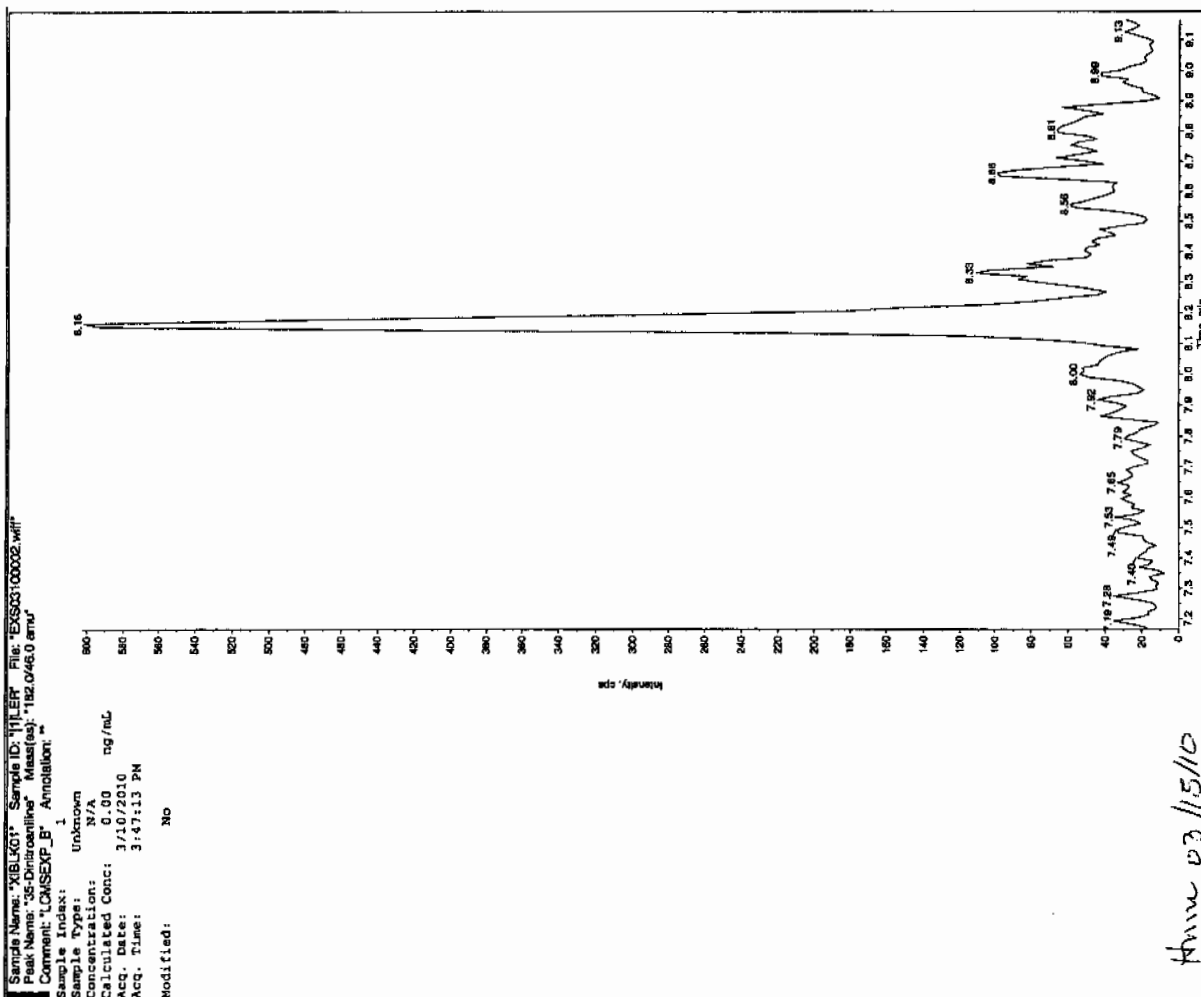
GEL Data File: EXS03100002.wiff

Instrument ID: LCMSMS

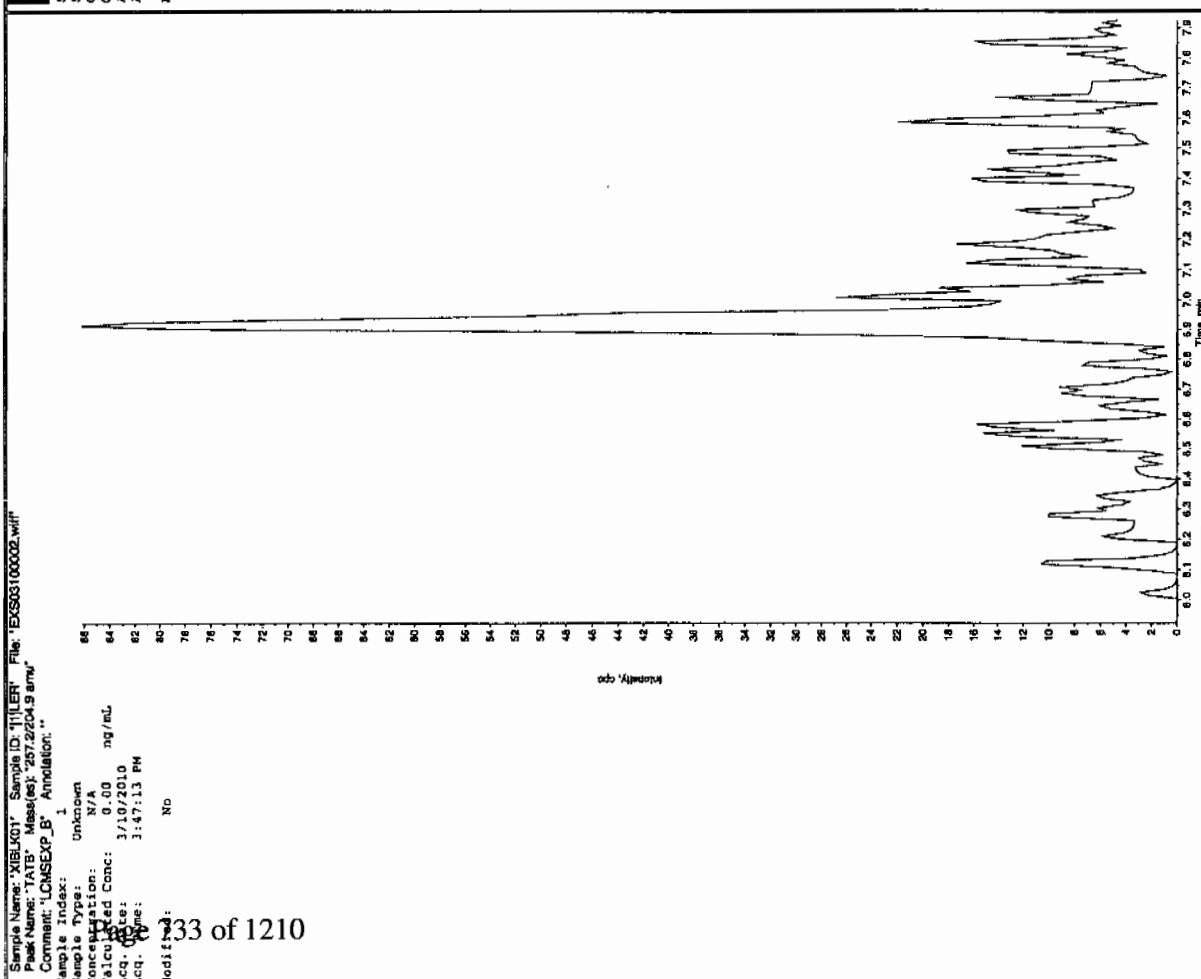
Column: Phenomenex Ultracarb 5u ODS(20)

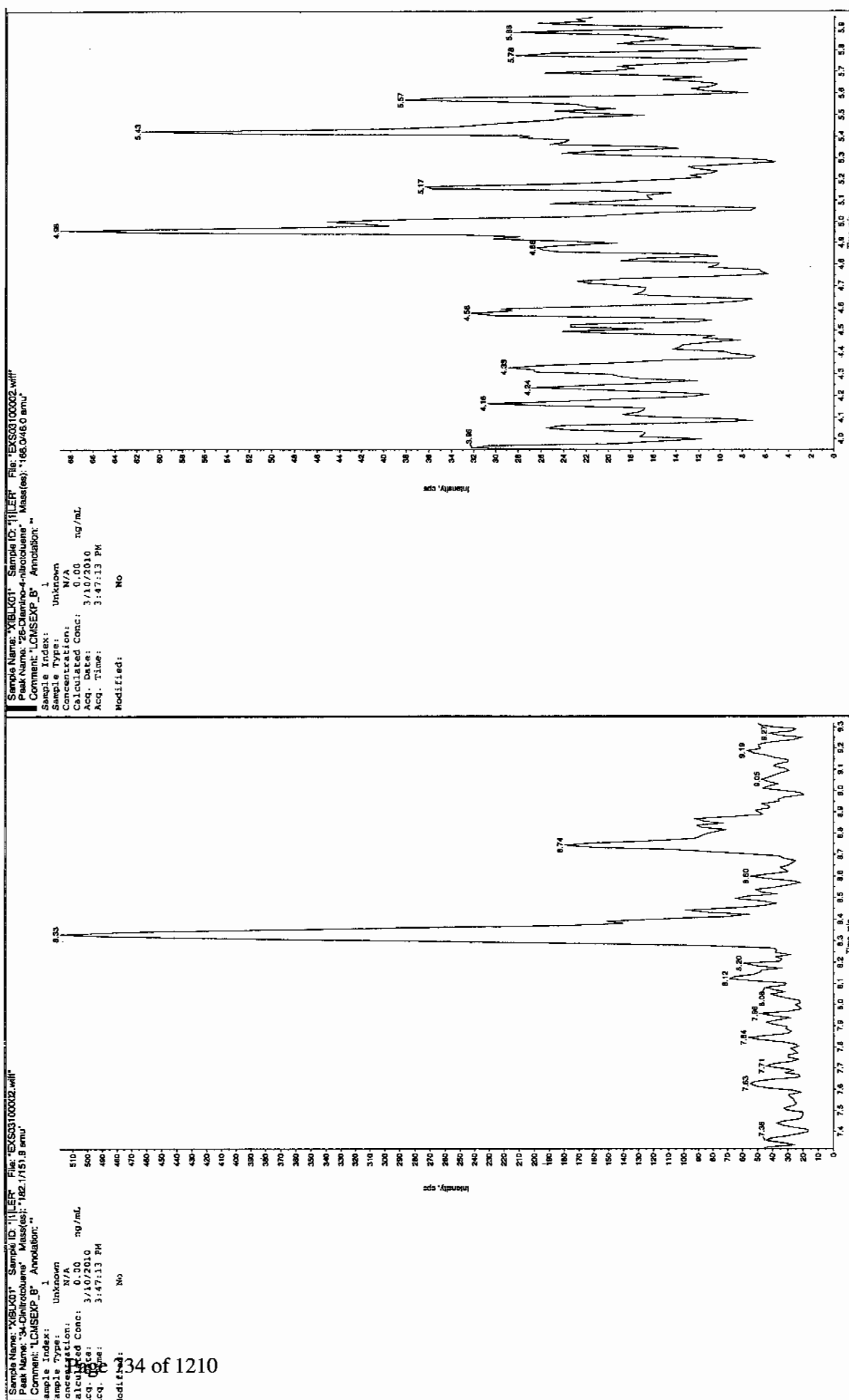
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

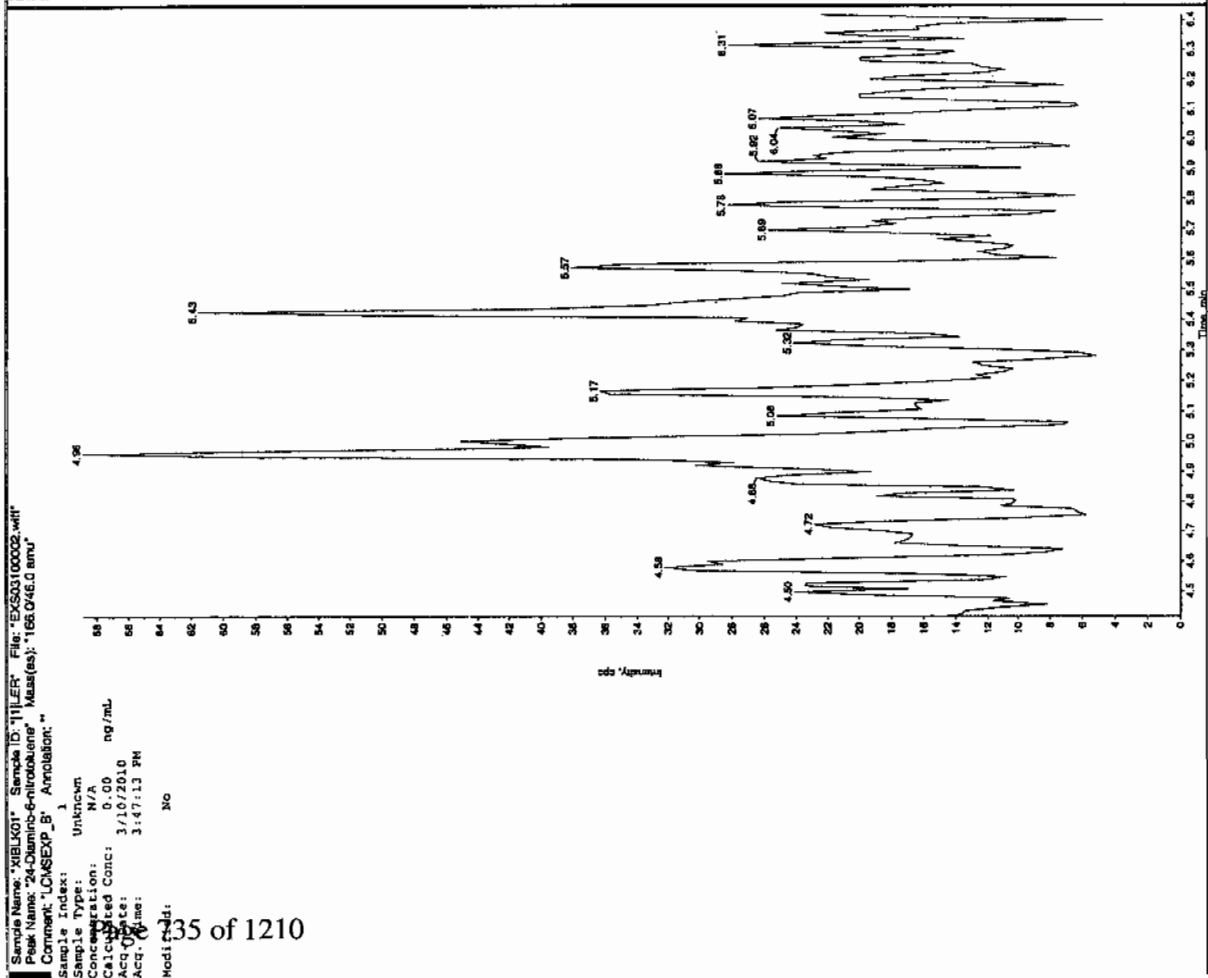
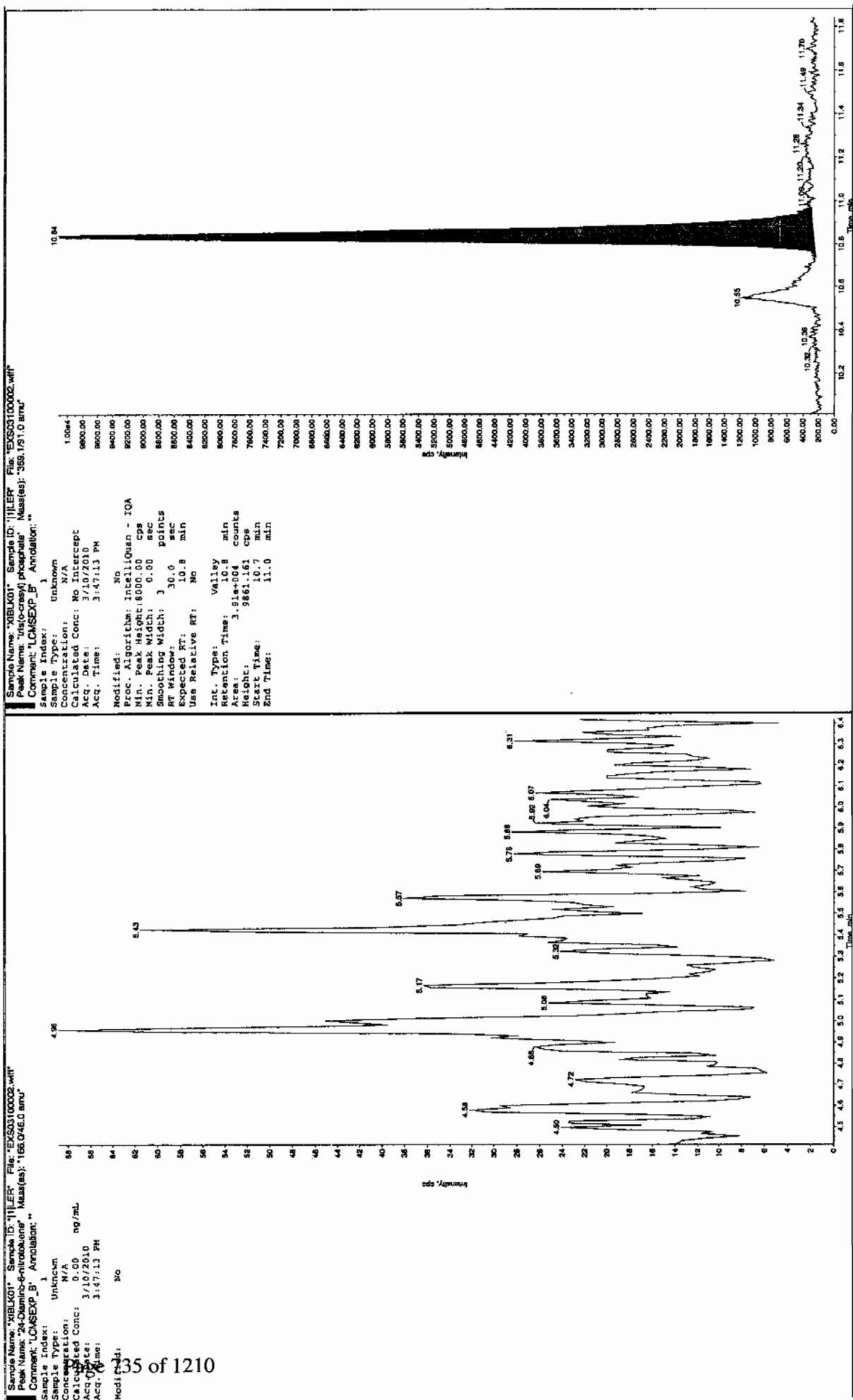
Scan 31310



Time 03/15/10







4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 12-APR-10 19:36

GEL Data File: EXP0412009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	566.025
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	597.817
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qid, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412009a

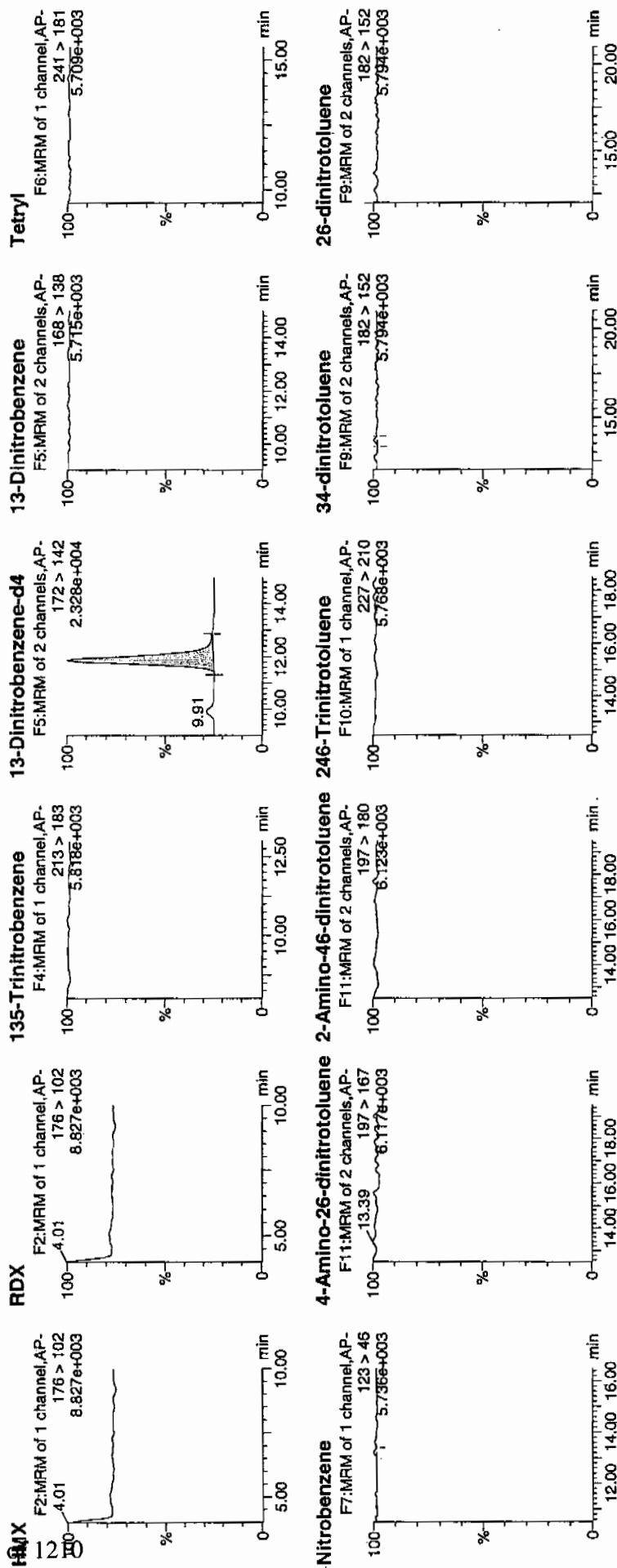
Date: 12-Apr-2010

Time: 19:36:32

File: XIBLK02

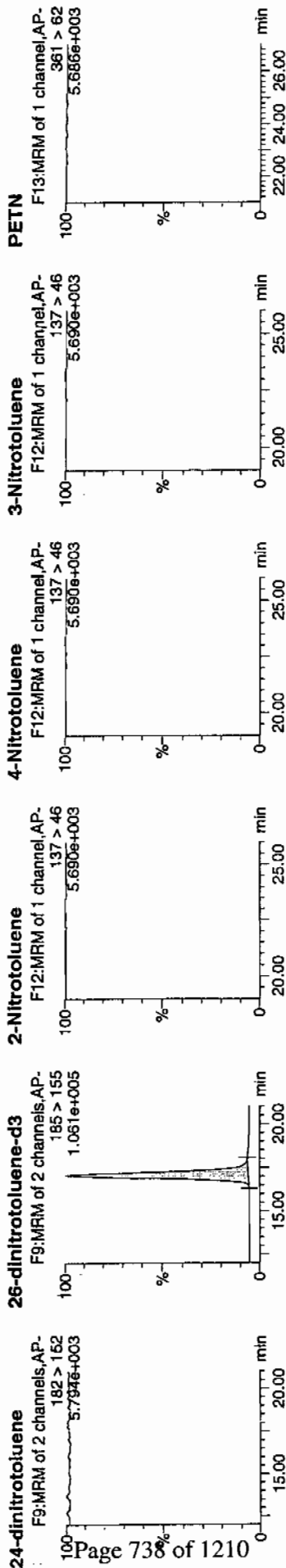
Vial: 1:1,A

WRT
4/13/10



amine 04/14/10

Dataset: C:\MASSLYNX\New_Exp_PROV041210expA.qid, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/mL)	%Rec	%Dev	SN
XIBLK02	HMx	176 > 102			6656.868									
XIBLK02	RDX	176 > 102			6656.868									
XIBLK02	135-Trinitrobenzene	213 > 183			6656.868									
XIBLK02	13-Dinitrobenzene-d4	172 > 142	11.87	6656.868			6656.868	bb			566.0252	113.2	13.2	258.0
XIBLK02	13-Dinitrobenzene	168 > 138			6656.868									
XIBLK02	Tetryl	241 > 181			6656.868									
XIBLK02	Nitrobenzene	123 > 46			6656.868				MM-	13-Apr-10	11:00:12			
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167			41827.098									
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180			41827.098				MM-	13-Apr-10	11:04:01			
XIBLK02	246-Trinitrotoluene	227 > 210			41827.098									
XIBLK02	34-dinitrotoluene	182 > 152			41827.098									
XIBLK02	26-dinitrotoluene	182 > 152			41827.098									
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.05	41827.098			41827.098	bb			597.8173	119.6	19.6	1486.5
XIBLK02	2-Nitrotoluene	137 > 46			41827.098									
XIBLK02	4-Nitrotoluene	137 > 46			41827.098									
XIBLK02	3-Nitrotoluene	137 > 46			41827.098									
XIBLK02	PETN	361 > 62			41827.098									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 12-APR-10 20:35

GEL Data File: EXP0412011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	547.706
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	578.822
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412011a

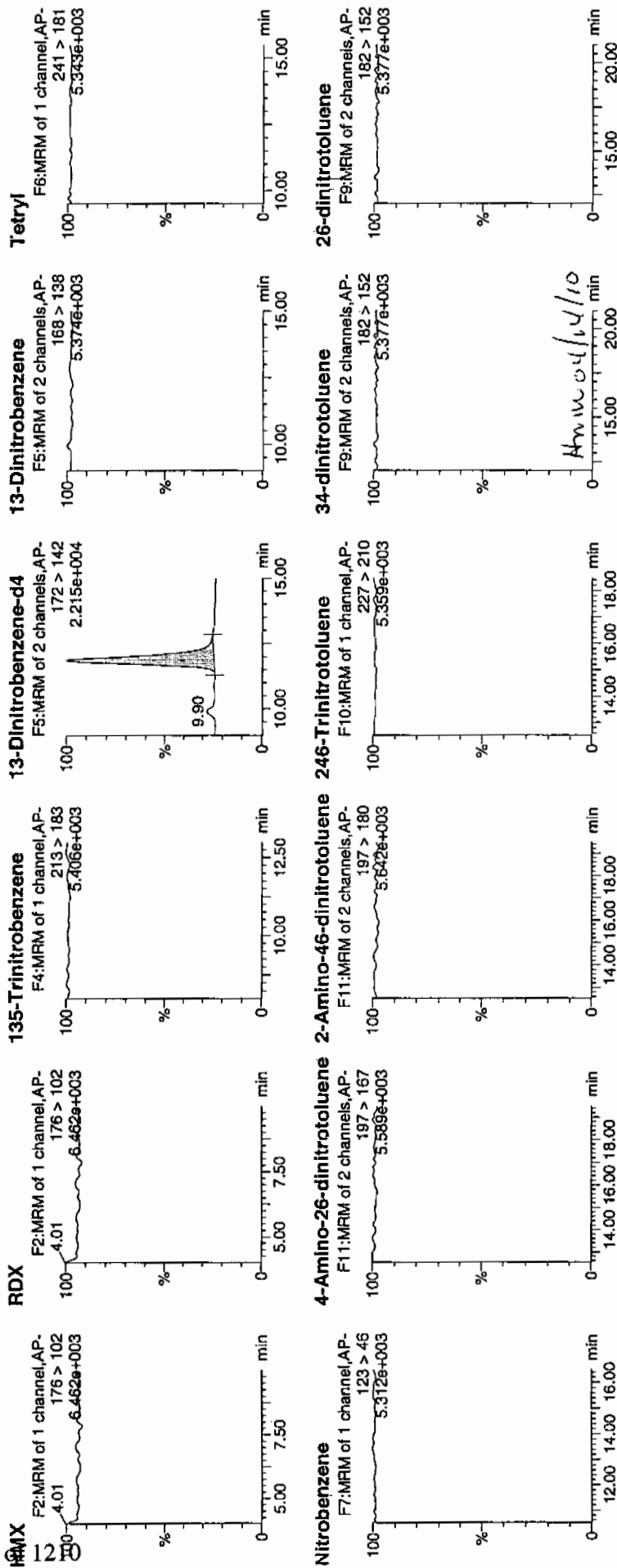
Date: 12-Apr-2010

Time: 20:35:28

ID: XIBLK03

Vial: 1:1,A

10/17
4/13/10

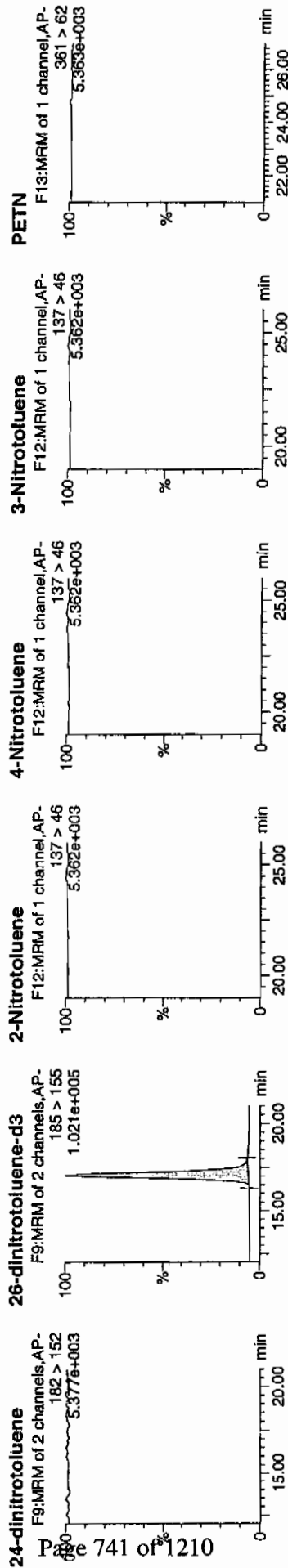


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	SN
XIBLK03	HMX	176 > 102			6441.423								
XIBLK03	RDX	176 > 102			6441.423								
XIBLK03	135-Trinitrobenzene	213 > 183			6441.423								
XIBLK03	13-Dinitrobenzene-d4	172 > 142	11.87	6441.423		6441.423	6441.423	bb		547.7062	109.5	9.5	345.7
XIBLK03	13-Dinitrobenzene	168 > 138			6441.423								
XIBLK03	Tetryl	241 > 181			6441.423								
XIBLK03	Nitrobenzene	123 > 46			40498.094								
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167			40498.094								
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180			40498.094								
XIBLK03	246-Trinitrotoluene	227 > 210			40498.094								
XIBLK03	34-dinitrotoluene	182 > 152			40498.094								
XIBLK03	26-dinitrotoluene	182 > 152			40498.094								
XIBLK03	24-dinitrotoluene	182 > 152			40498.094								
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.06	40498.094		40498.094	40498.094	bb		578.8224	115.8	15.8	2241.2
XIBLK03	2-Nitrotoluene	137 > 46			40498.094								
XIBLK03	4-Nitrotoluene	137 > 46			40498.094								
XIBLK03	3-Nitrotoluene	137 > 46			40498.094								
XIBLK03	PETN	361 > 62			40498.094								

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 13-APR-10 02:58

GEL Data File: EXP0412024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	493.141
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	499.061
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412024a

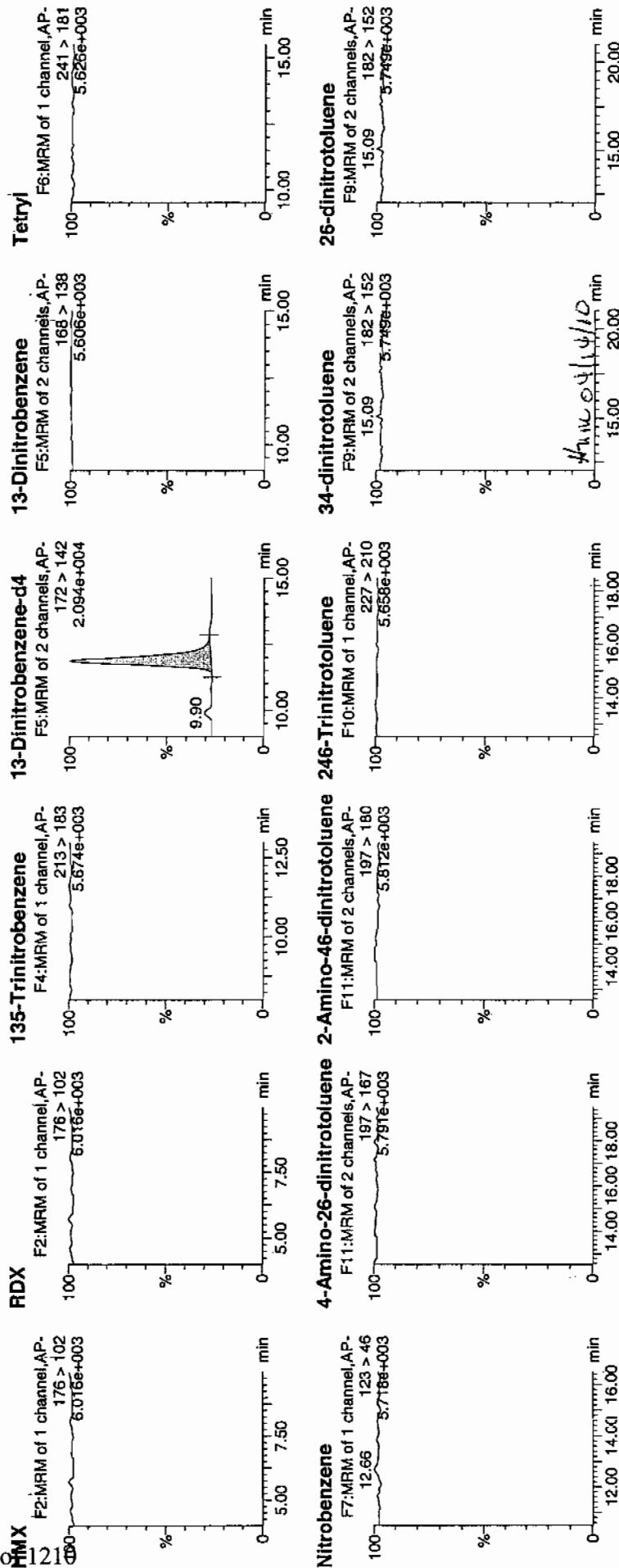
Date: 13-Apr-2010

Time: 02:58:51

ID: XIBLK04

Val: 1:1,A

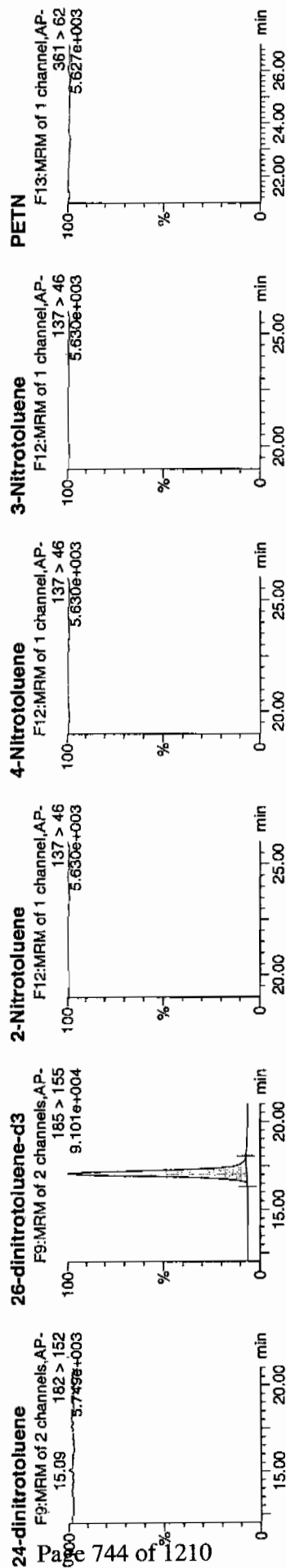
4/13/10



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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Day	SIN
XIBLK04	HMX	176 > 102		5799.697									
XIBLK04	RDX	176 > 102		5799.697									
XIBLK04	135-Trinitrobenzene	213 > 183		5799.697									
XIBLK04	13-Dinitrobenzene-d4	172 > 142	11.86	5799.697				bb			493.1410	98.6	-1.4 818.6
XIBLK04	13-Dinitrobenzene	168 > 138		5799.697									
XIBLK04	Tetryl	241 > 181		5799.697									
XIBLK04	Nitrobenzene	123 > 46		5799.697									
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167		5799.697									
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180		34917.508									
XIBLK04	246-Trinitrotoluene	227 > 210		34917.508									
XIBLK04	34-dinitrotoluene	182 > 152		34917.508									
XIBLK04	26-dinitrotoluene	182 > 152		34917.508									
XIBLK04	24-dinitrotoluene	182 > 152		34917.508									
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.06	34917.508				bb			493.0614	99.8	-0.2 4328.2
XIBLK04	2-Nitrotoluene	137 > 46		34917.508									
XIBLK04	4-Nitrotoluene	137 > 46		34917.508									
XIBLK04	3-Nitrotoluene	137 > 46		34917.508									
XIBLK04	PETN	361 > 62		34917.508									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 13-APR-10 09:22

GEL Data File: EXP0412037a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	510.743
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	501.204
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

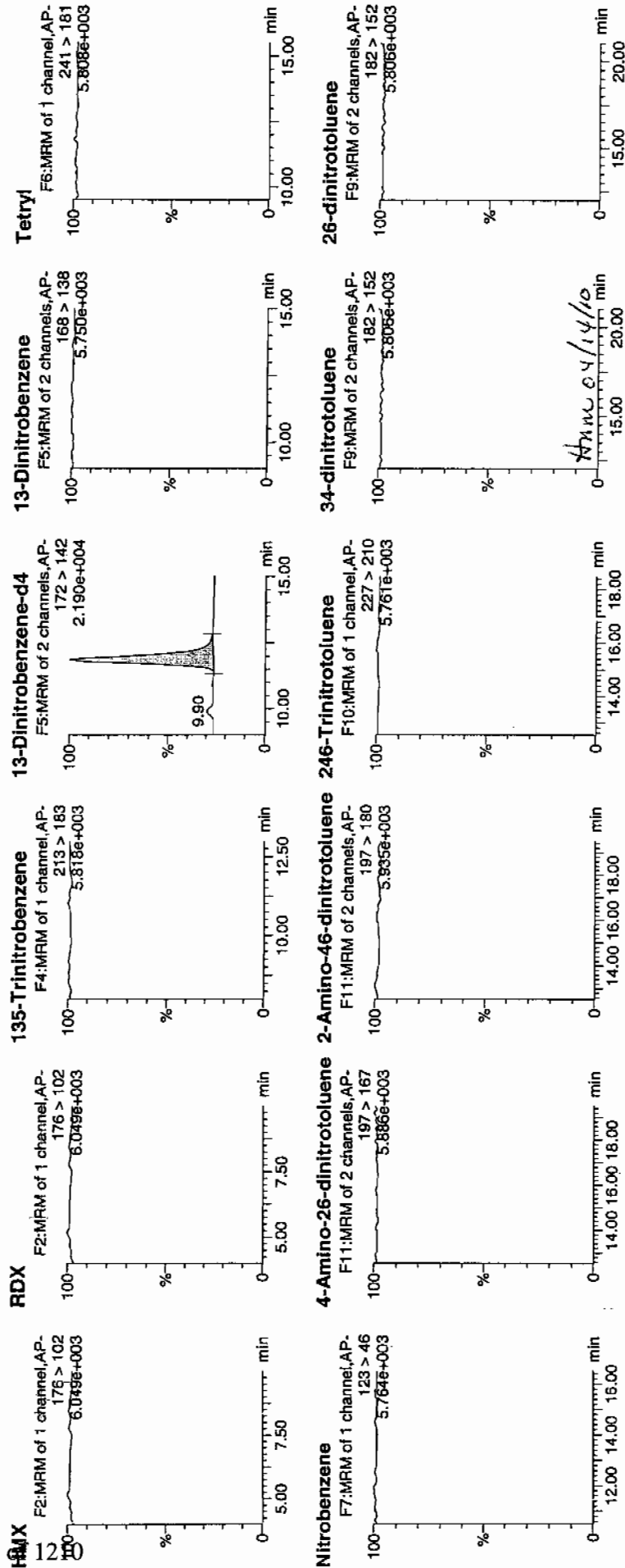
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412037a

Date: 13-Apr-2010

Time: 09:22:18

ID: XIBLK05

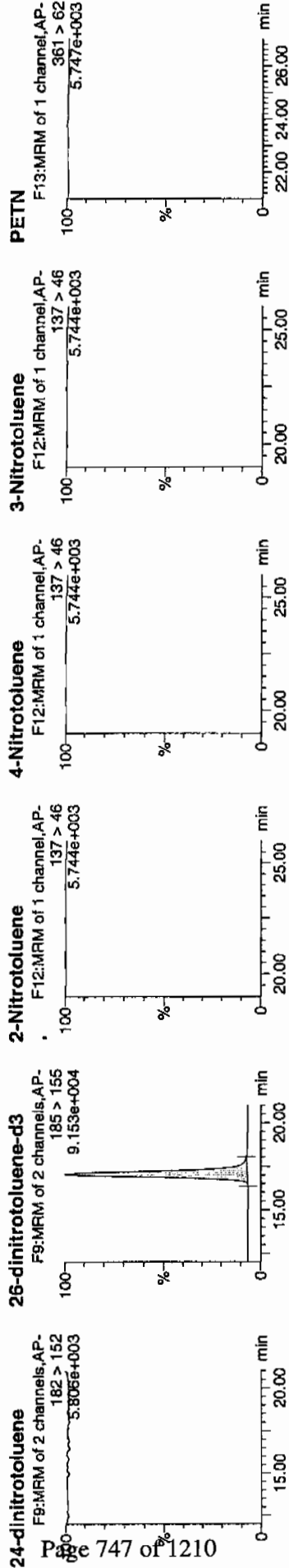
Vial: 1:1,A



Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 10-MAR-10 17:52

GEL Data File: EXS03100010.wiff

Instrument ID: LCMSMS

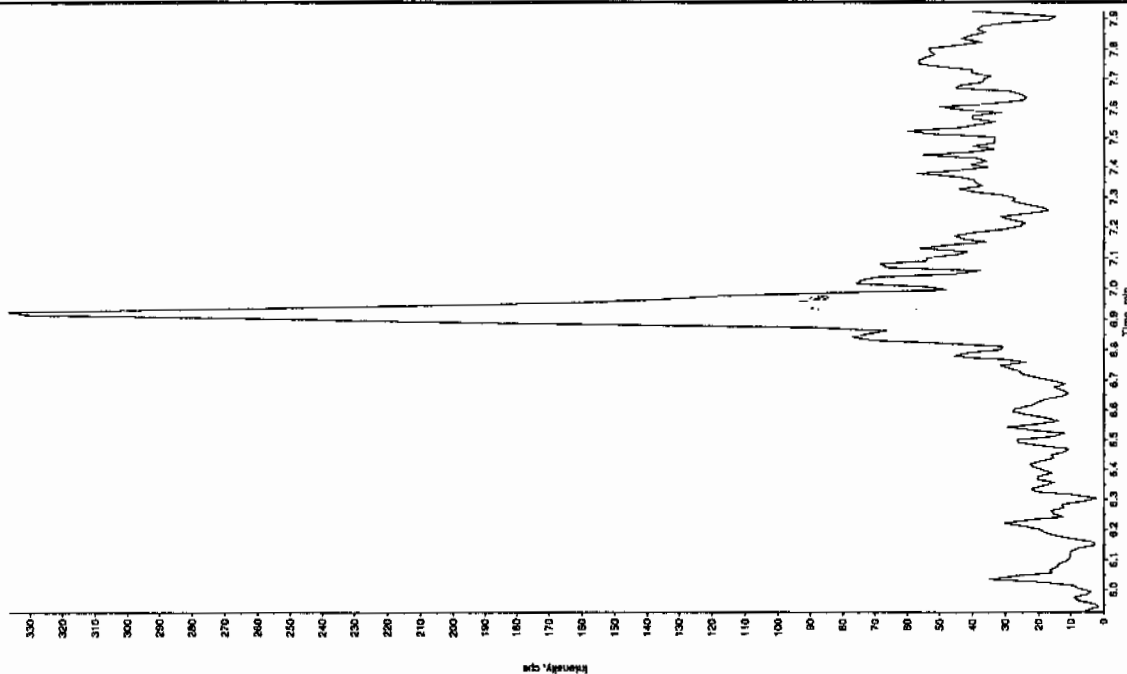
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.61
TATB	0	0

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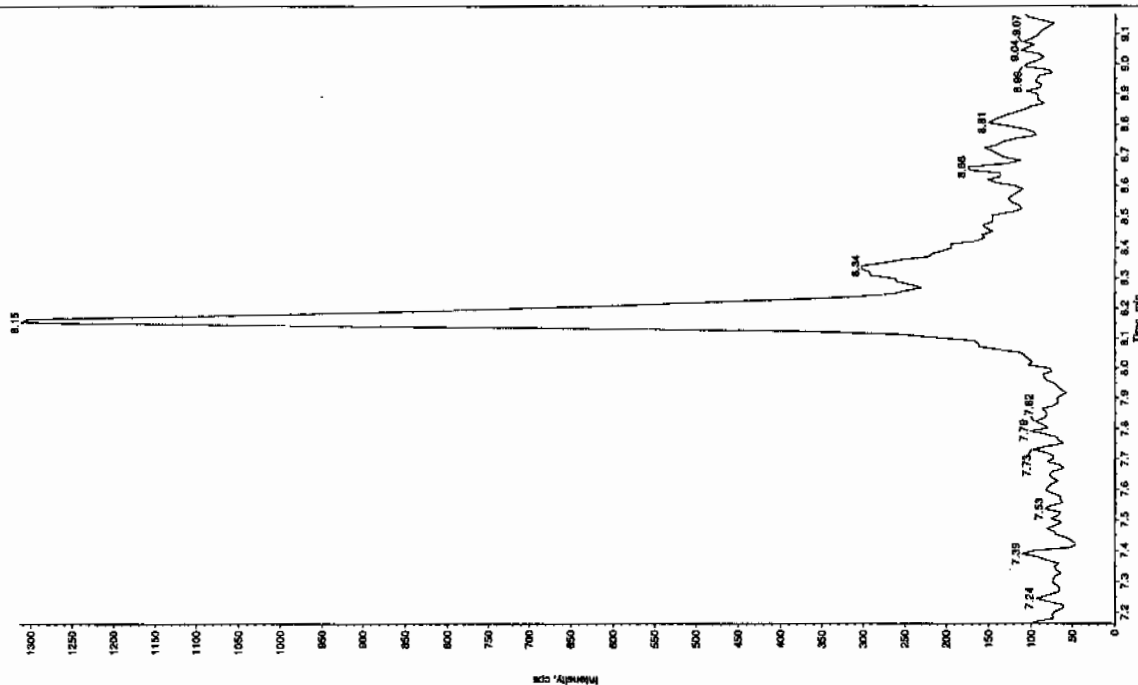
Sample Name: "XIALK02" Sample ID: "HILIER" File: "EX503100010.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 5:52:48 PM
 Modified: No



Sample Name: "XIALK02" Sample ID: "HILIER" File: "EX503100010.will"
 Peak Name: "35-Ornithine" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

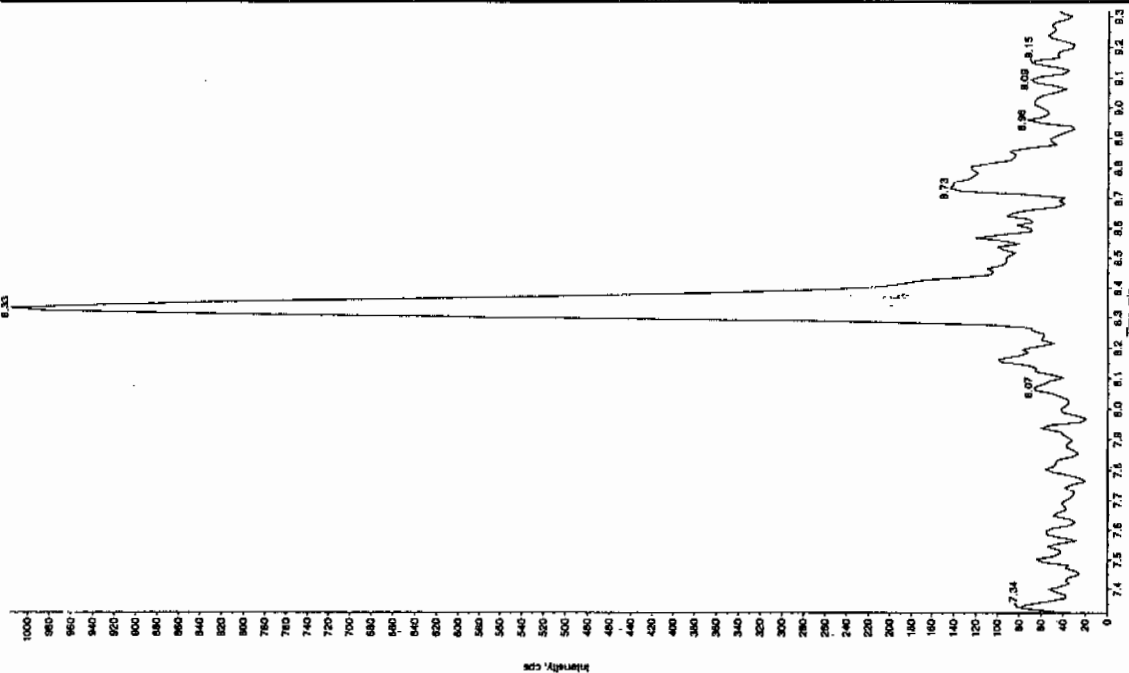
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 5:52:48 PM
 Modified: No



HW03/15/10

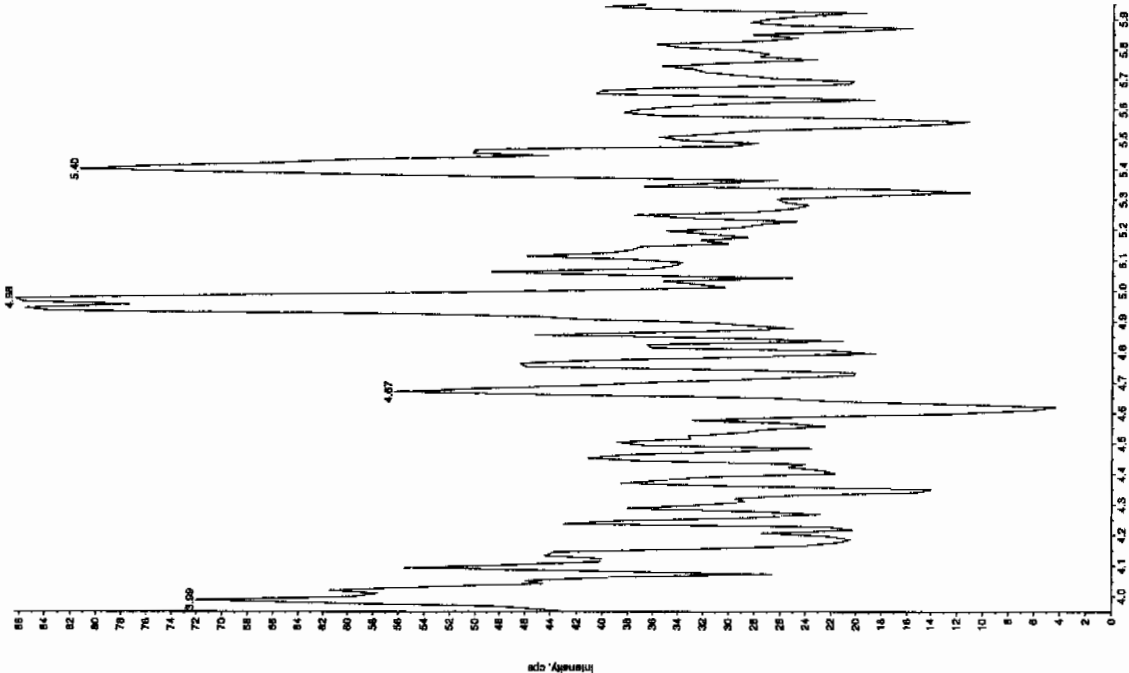
Sample Name: "XBLK02" Sample ID: "111ER" File: "EX503100010.wiff"
 Peak Name: "25-Diethyl-4-nitrobenzene" Mass(es): "162.1/151.3 amu"
 Comment: "LCMSXP_B" Annotation: "1"

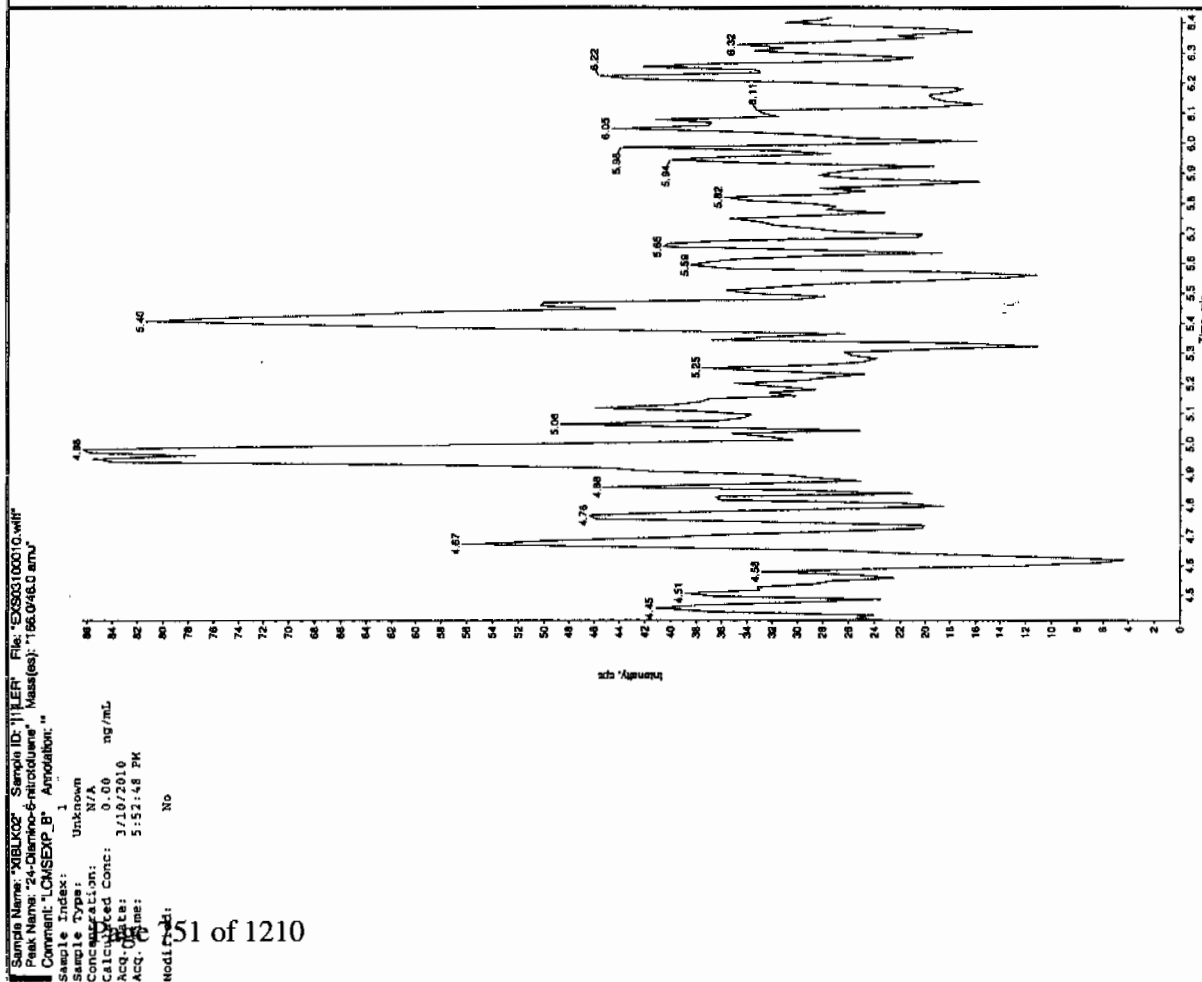
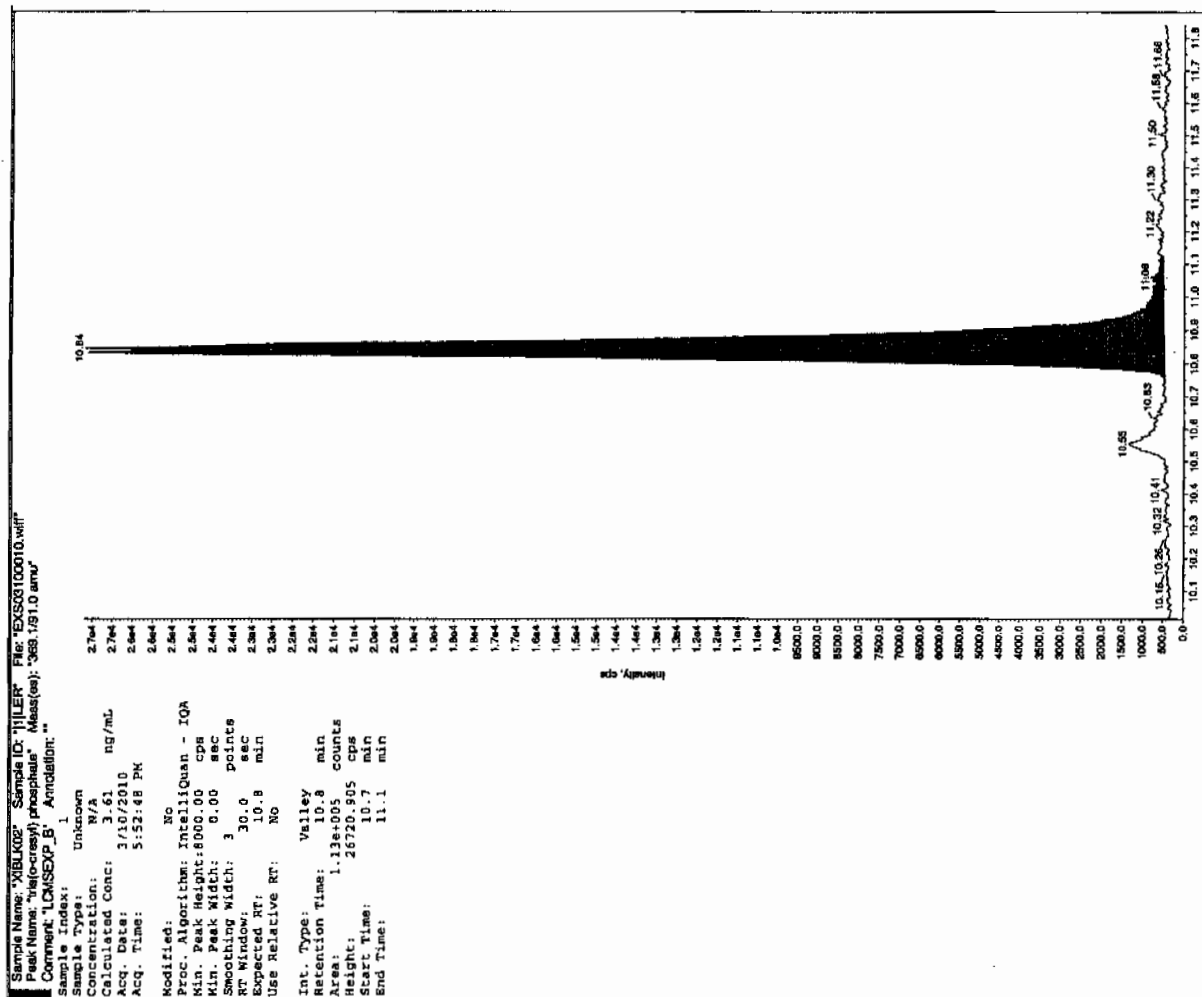
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 5:52:48 PM
 Modified: No



Sample Name: "XBLK02" Sample ID: "111ER" File: "EX503100010.wiff"
 Peak Name: "25-Diethyl-4-nitrobenzene" Mass(es): "166.0/165.0 amu"
 Comment: "LCMSXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 5:52:48 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 10-MAR-10 18:24

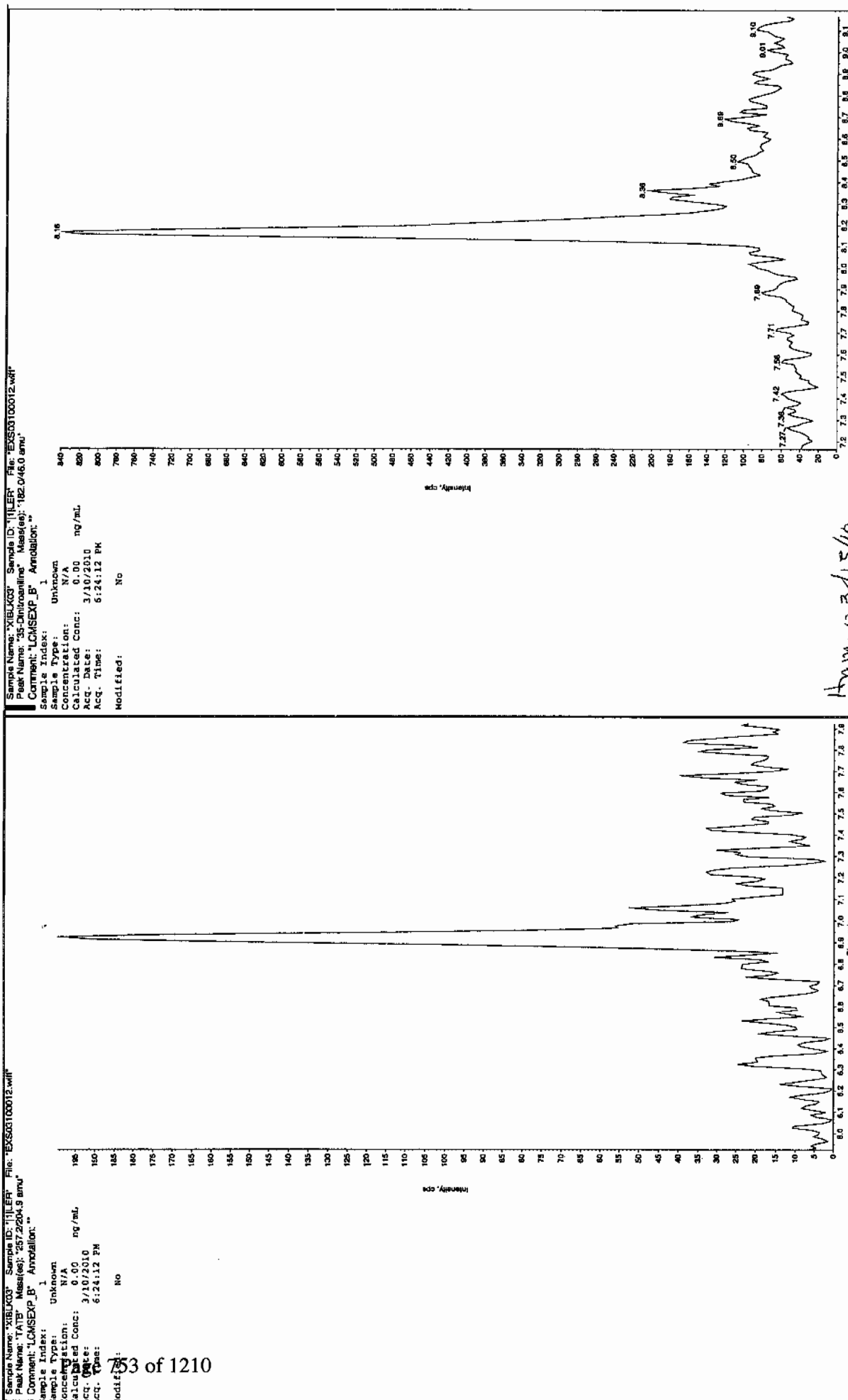
GEL Data File: EXS03100012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.32
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 8/13/10



Amu 8/15/10

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 10-MAR-10 21:48

GEL Data File: EXS03100025.wiff

Instrument ID: LCMSMS

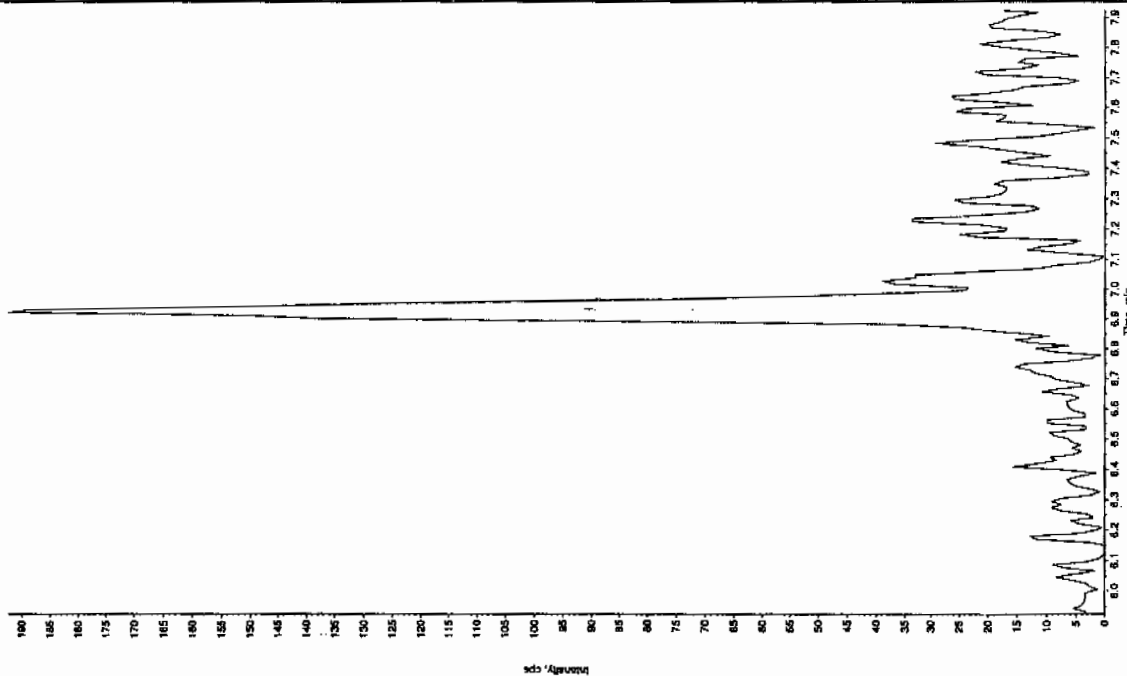
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.283

Jan 3/13/10

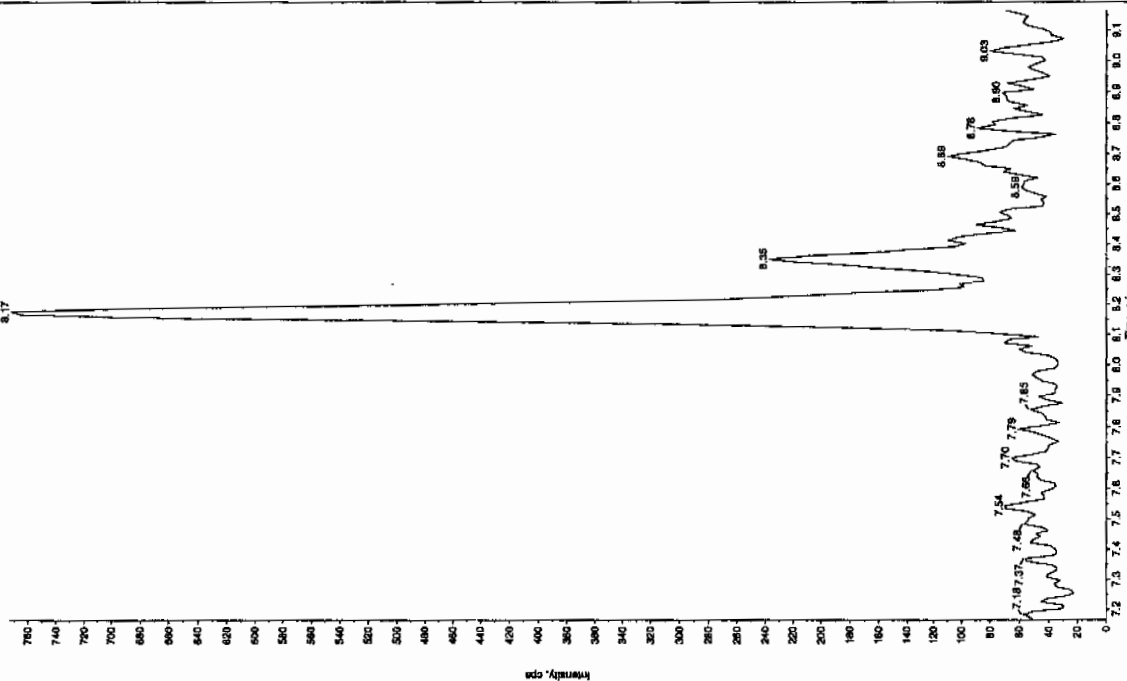
Sample Name: 'XIBUKA' Sample ID: 'HLEP' File: 'EX50310025.wif'
 Peak Name: '35-Orthoanisole' Mass(es): '257.204.9 amu'
 Comment: 'LCMSXP_B' Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 9:48:18 PM
 Modified: No

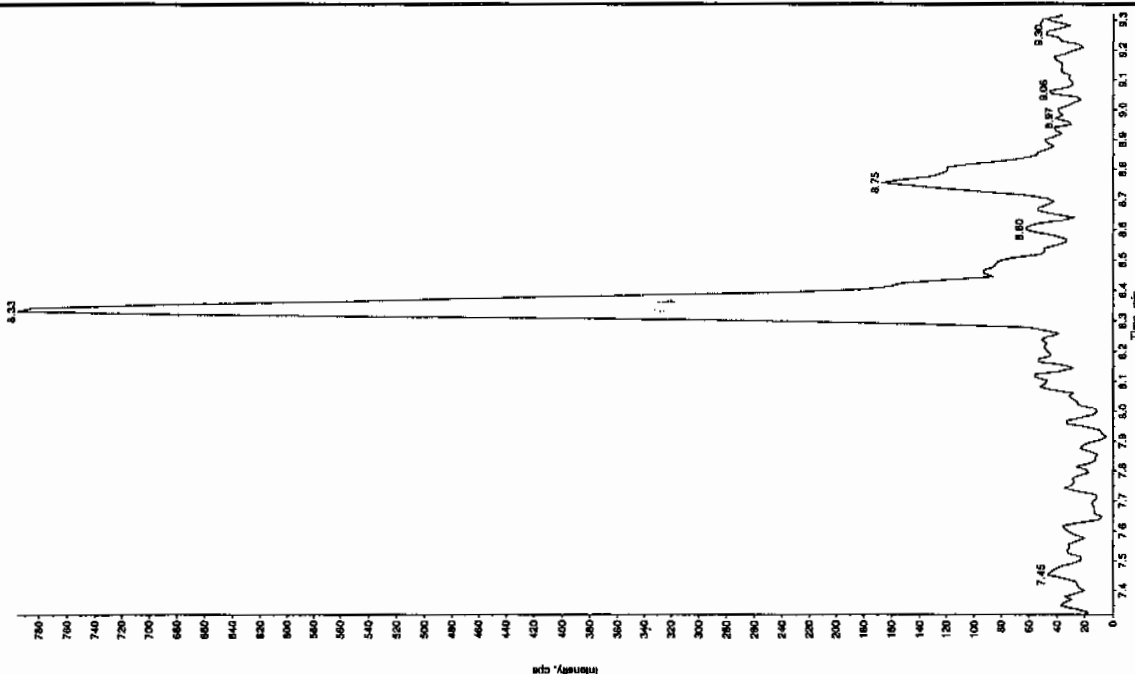


Sample Name: 'XIBUKA' Sample ID: 'HLEP' File: 'EX50310025.wif'
 Peak Name: '35-Orthoanisole' Mass(es): '162.046.0 amu'
 Comment: 'LCMSXP_B' Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 9:48:18 PM
 Modified: No



Amw 03/15/10

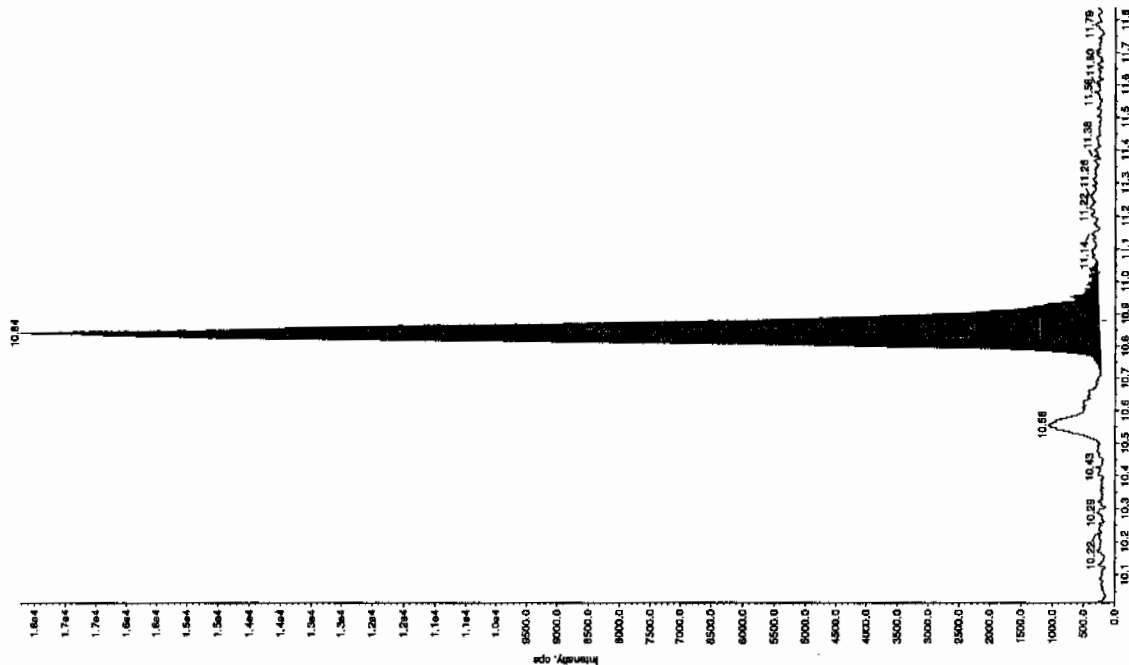
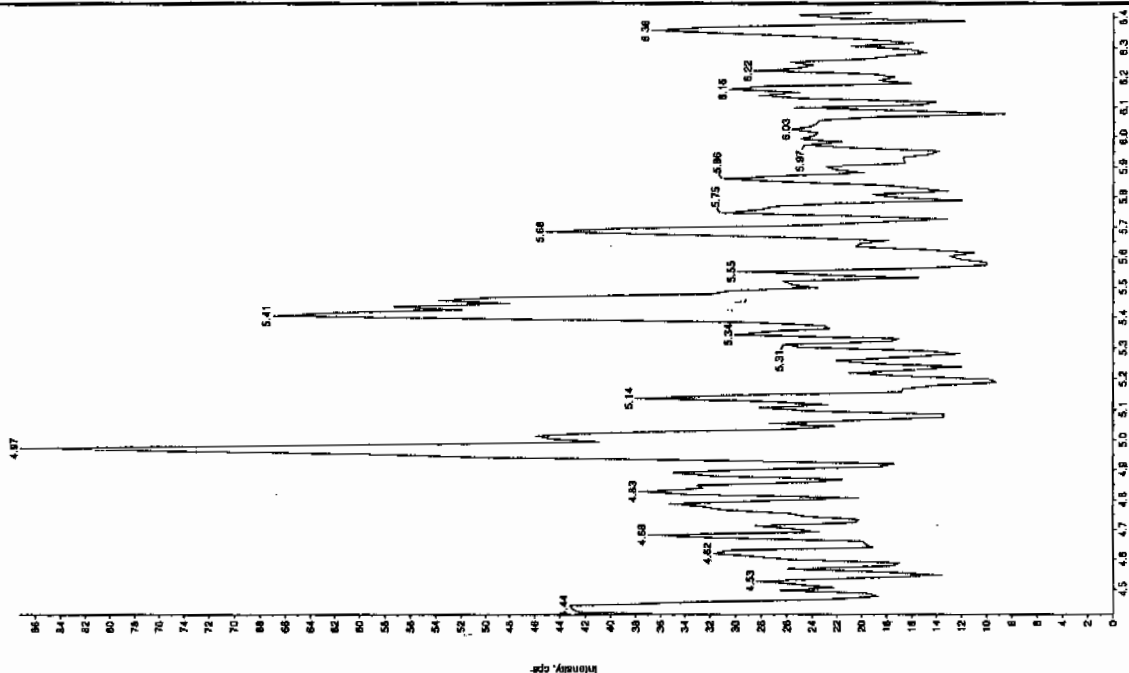


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: 'XBLU04' Sample ID: '11LER' File: 'EX603100025.wif'
 Peak Name: '24-Diamino-5-nitrofluorene' Mass(es): '160.046.0 amu'
 Comment: 'LCMSXP_5' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 9:48:18 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.88e+004 counts
 Height: 17471.106 cps
 Start Time: 10.7 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 11-MAR-10 01:12

GEL Data File: EXS03100038.wiff

Instrument ID: LCMSMS

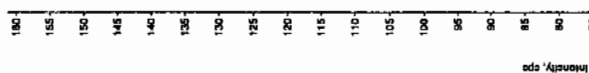
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.104
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Dec 3/13/10

Sample Name: "XIBLK05" Sample ID: "JILLER" File: "EXS03100038.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

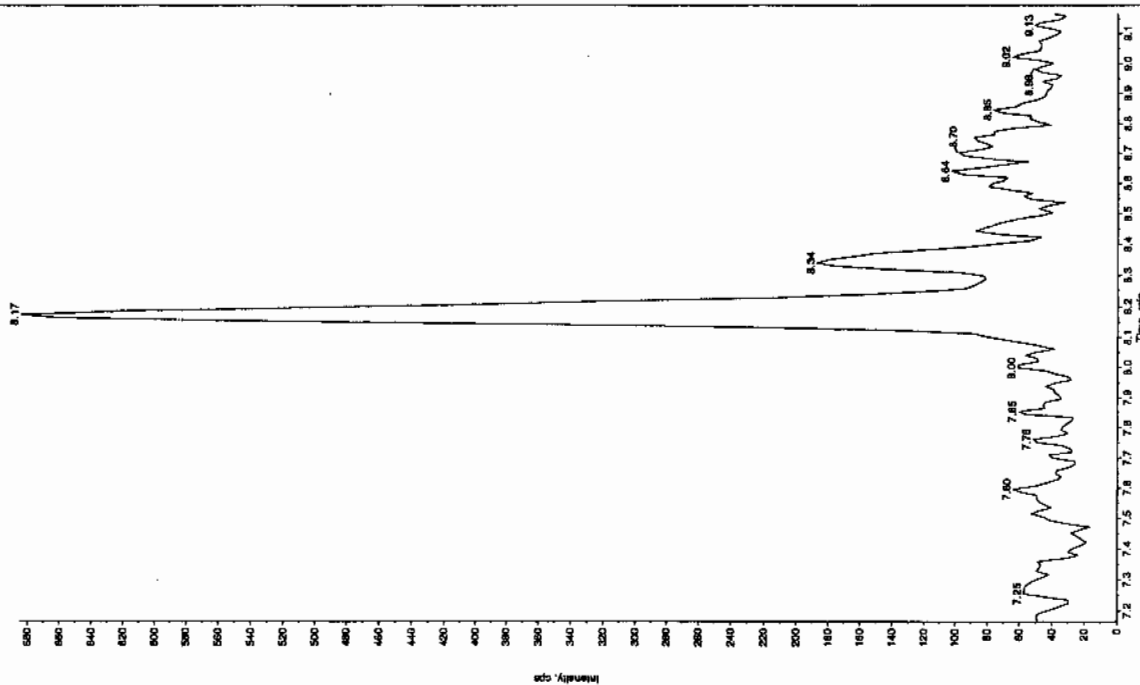
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:12:29 AM
 Modified: No



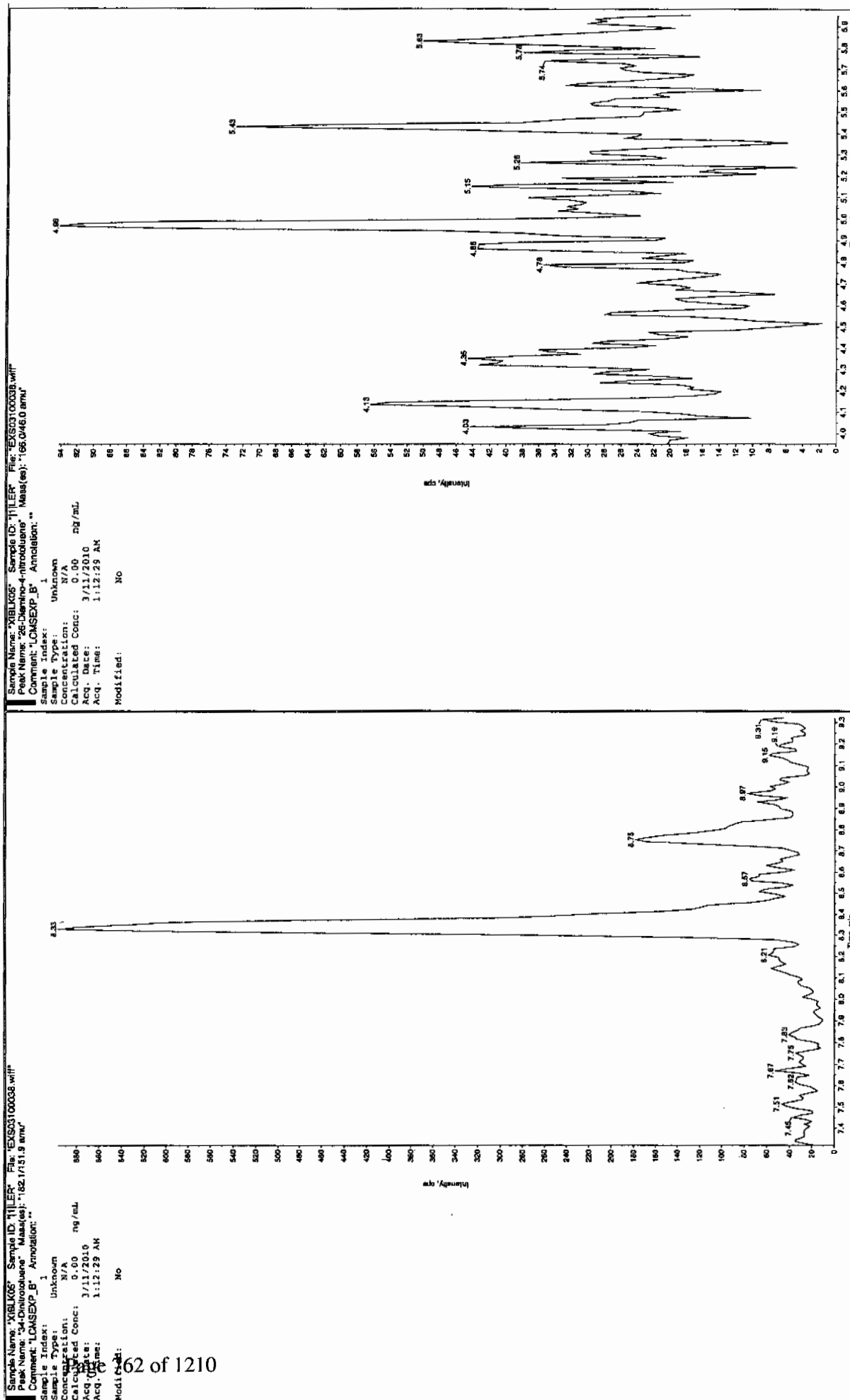
61 of 1210

Sample Name: "XIBLK05" Sample ID: "JILLER" File: "EXS03100038.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:12:29 AM
 Modified: No



Dec 03/13/10



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 11-MAR-10 03:02

GEL Data File: EXS03100045.wiff

Instrument ID: LCMSMS

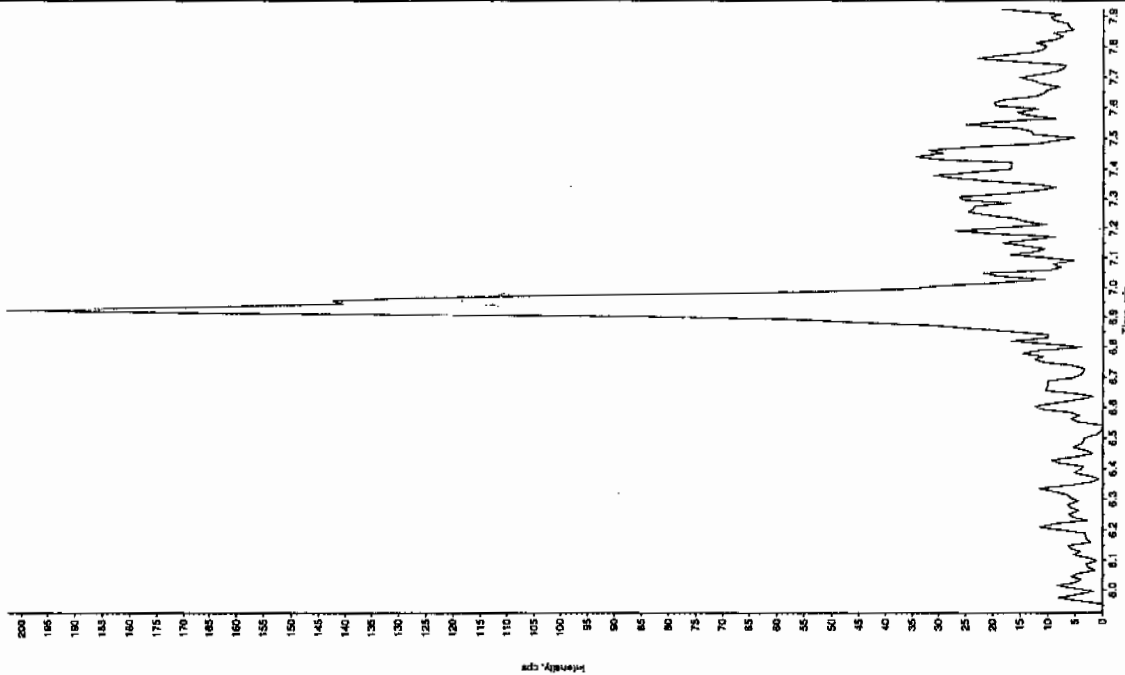
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
tris(o-cresyl) phosphate	0	.271
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0

Run 3/14/10

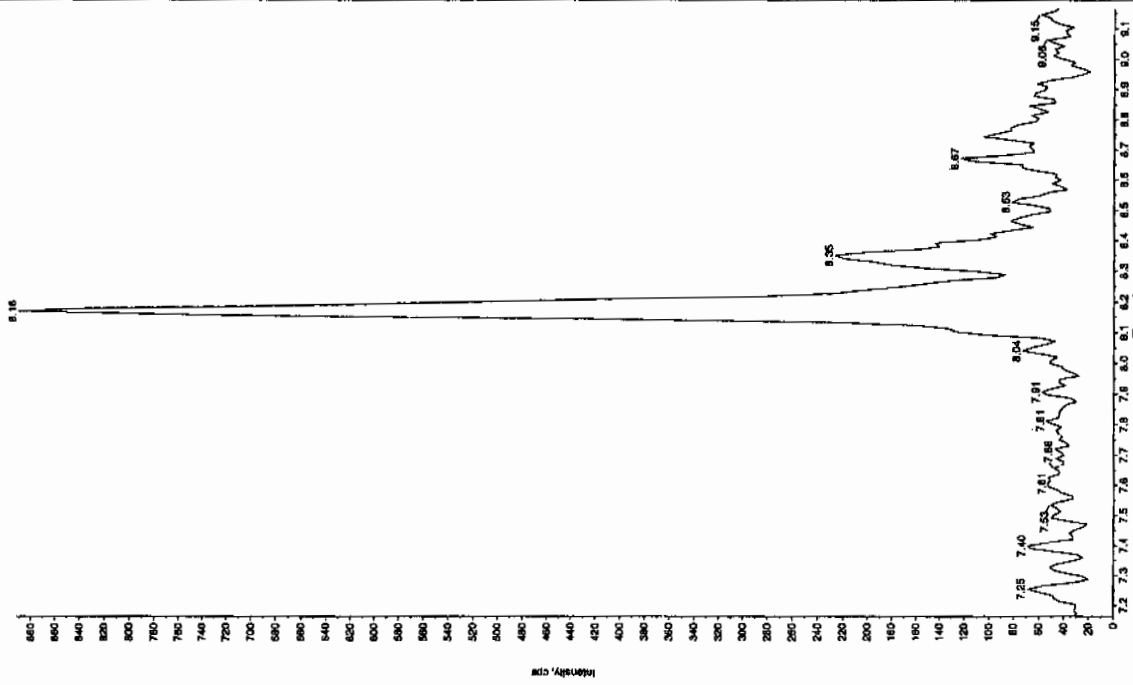
Sample Name: "XIBLX06" Sample ID: "JILER" File: "EX503100045.wif"
 Peak Name: "TATB" Mass(es): "257.2204.8 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:02:28 AM
 Modified: No

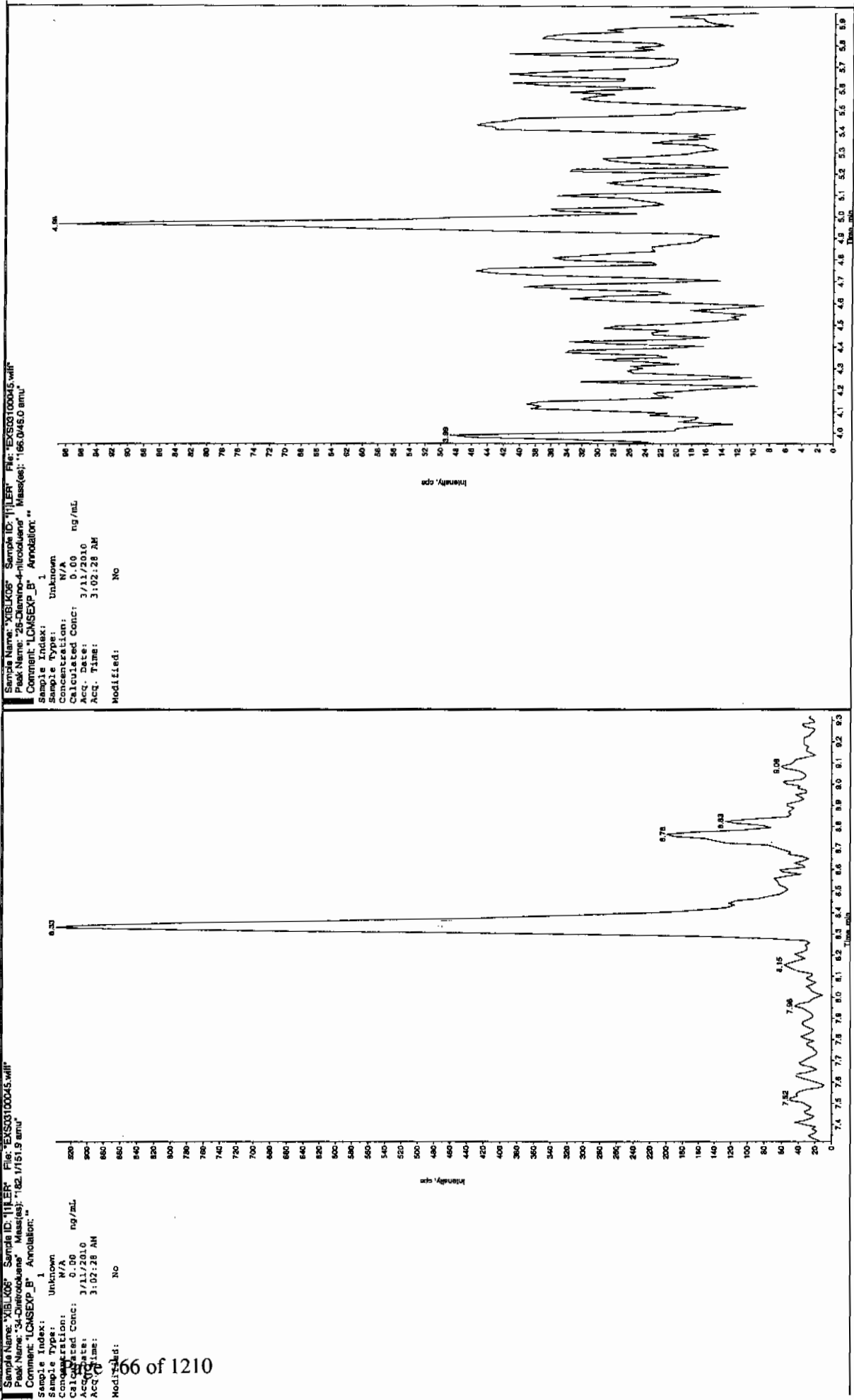


Sample Name: "XIBLX06" Sample ID: "JILER" File: "EX503100045.wif"
 Peak Name: "3S-Dinitrofluorene" Mass(es): "182.0481.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:02:28 AM
 Modified: No

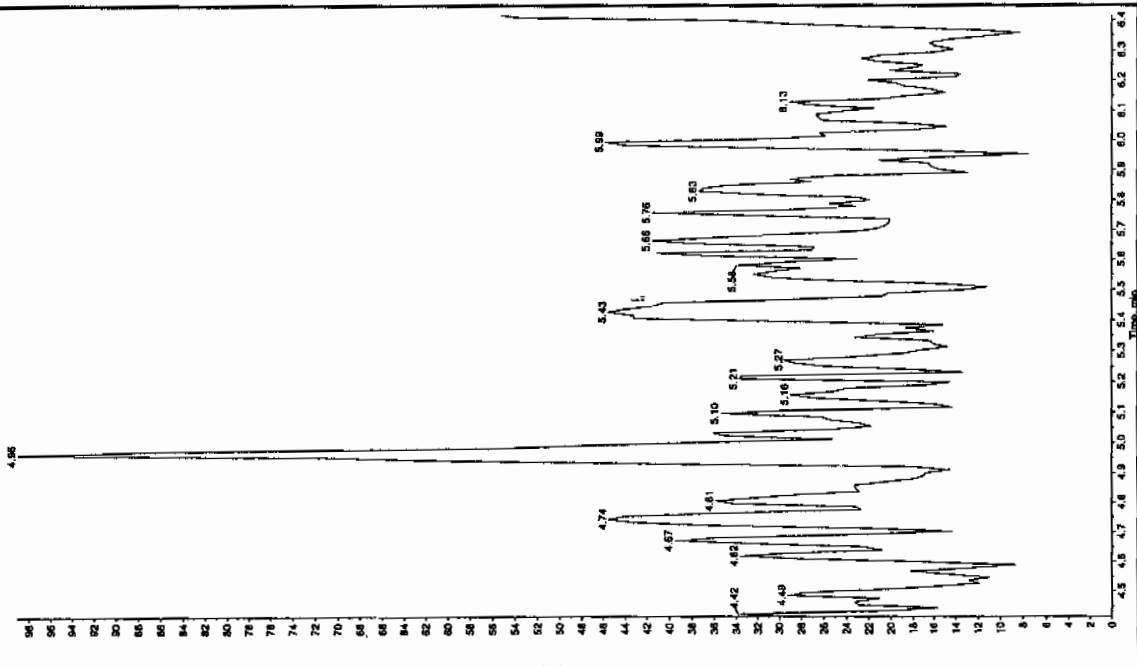


Run 3/15/10



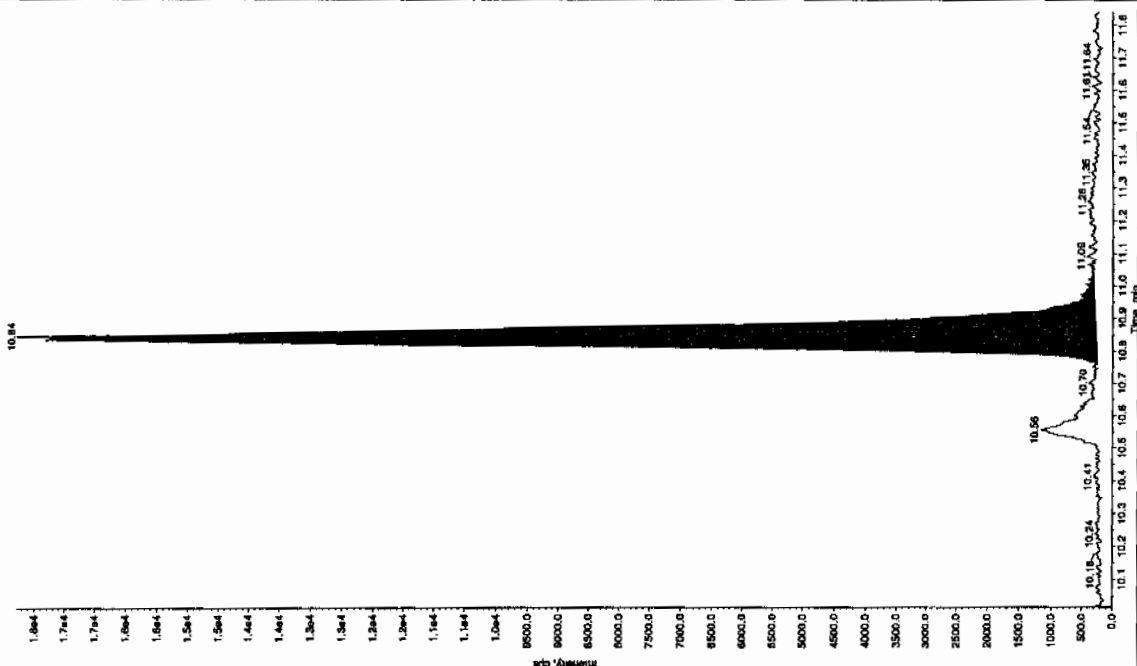
Sample Name: "XBL006" Sample ID: "11111" File: "EX50310045.wif"
 Peak Name: "24-Oxabio-6-nitrodans" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:02:28 AM
 Modified: No



Sample Name: "XBL006" Sample ID: "11111" File: "EX50310045.wif"
 Peak Name: "1,3-bis(4-oxa-2-phenyl)phosphine" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.271 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:02:28 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.85e+004 counts
 Height: 17511.333 cps
 Start Time: 10.8 min
 End Time: 11.0 min



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 11-MAR-10 05:55

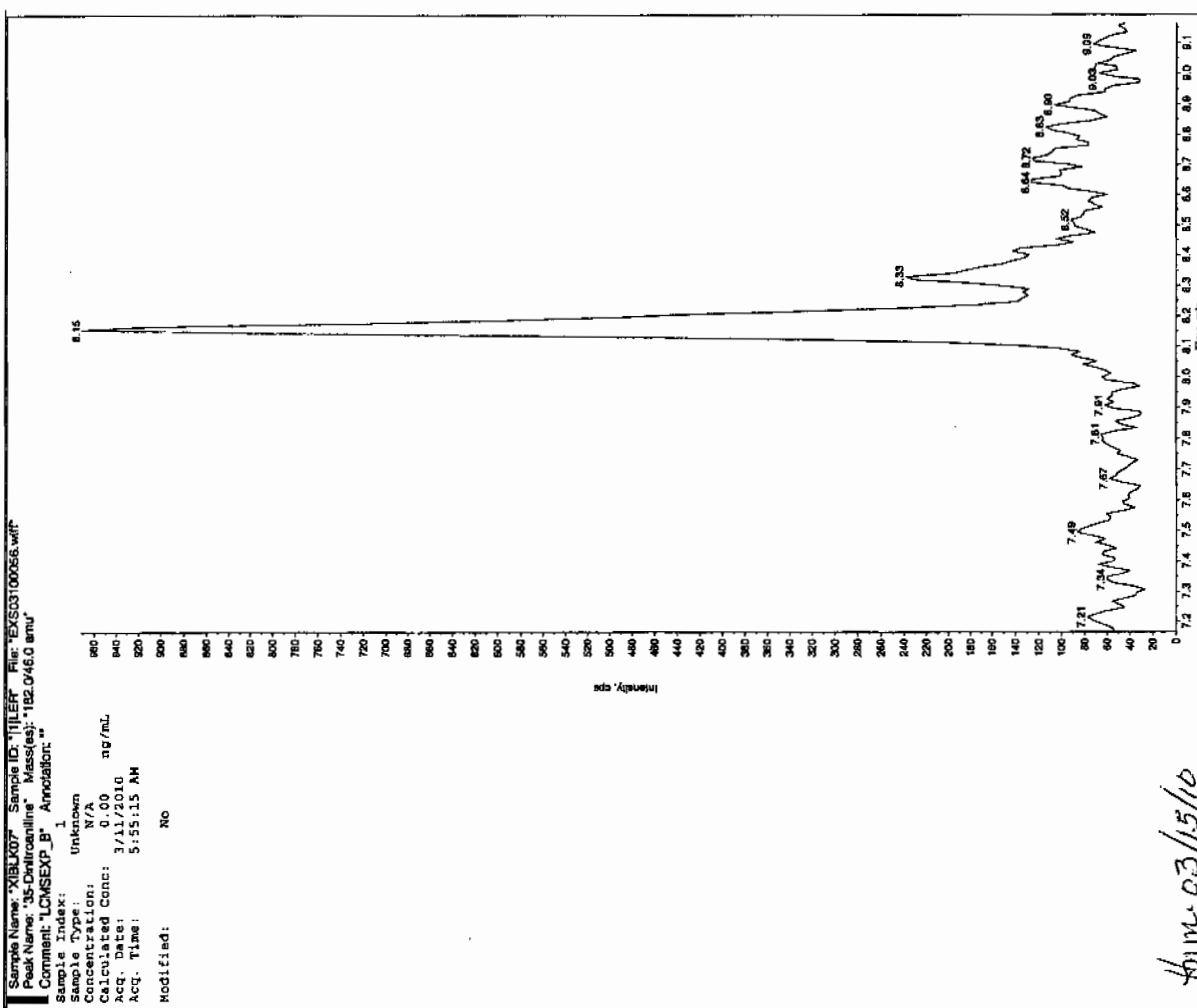
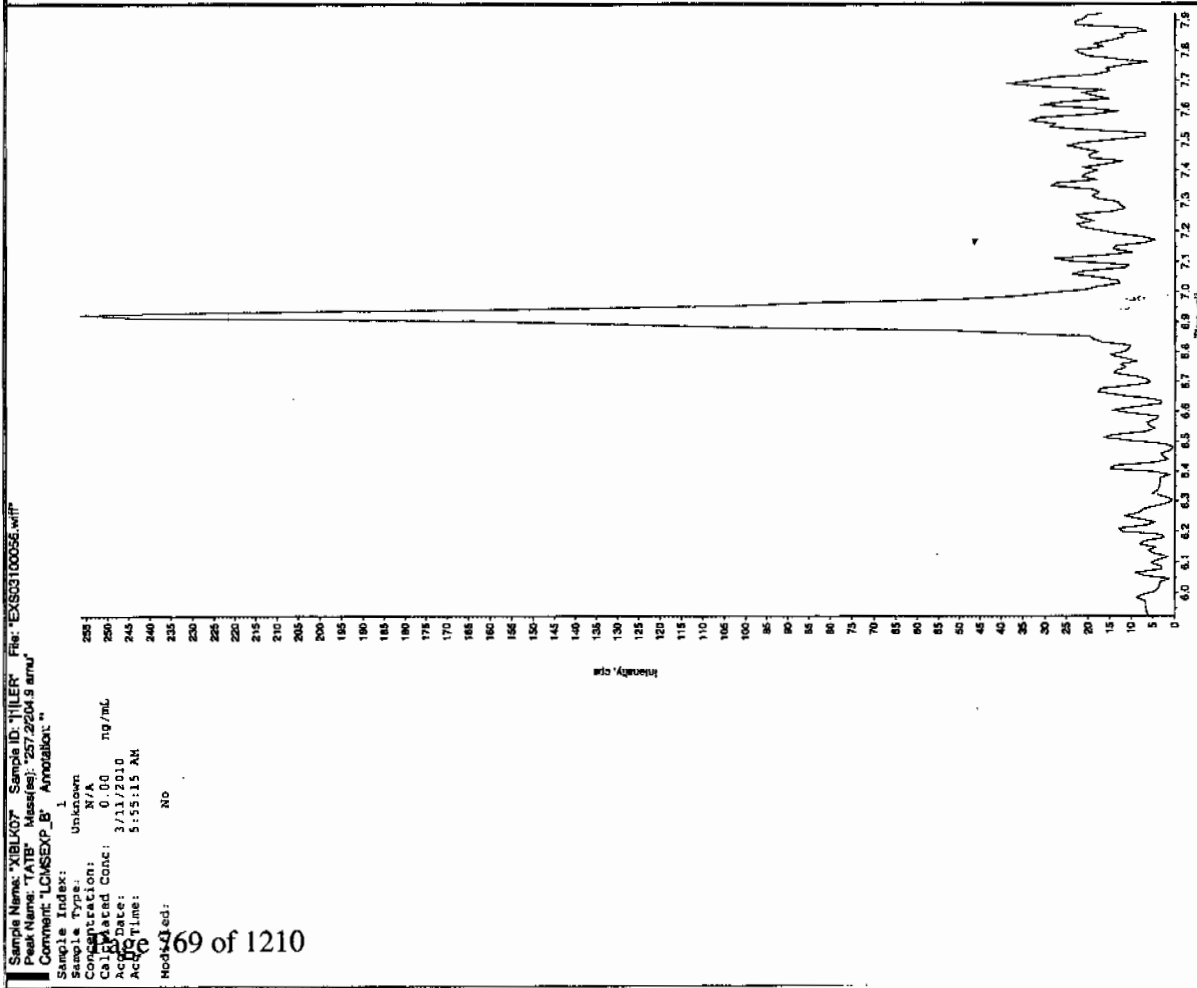
GEL Data File: EXS03100056.wiff

Instrument ID: LCMSMS

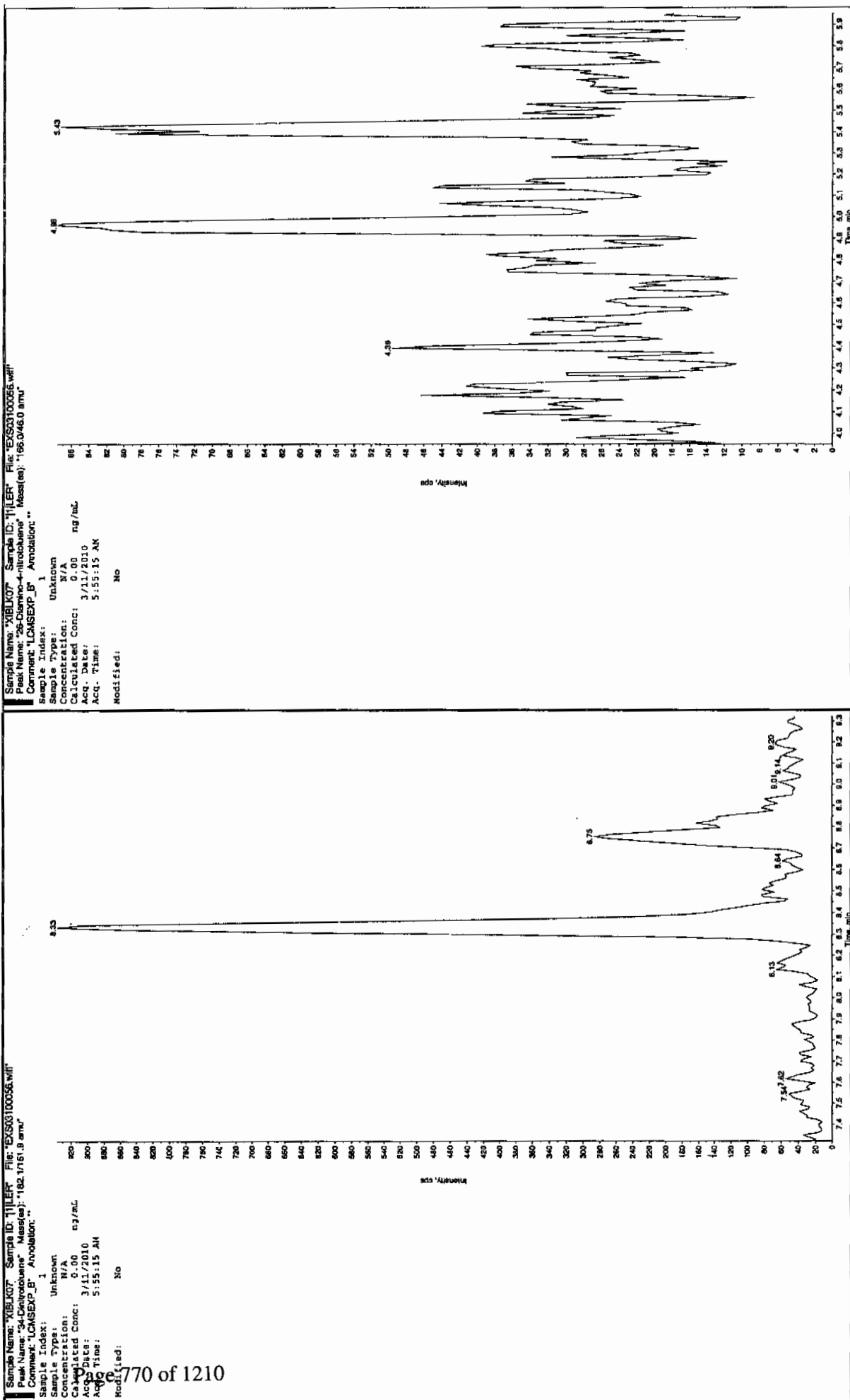
Column: Phenomenex Ultracarb 5u ODS(20)

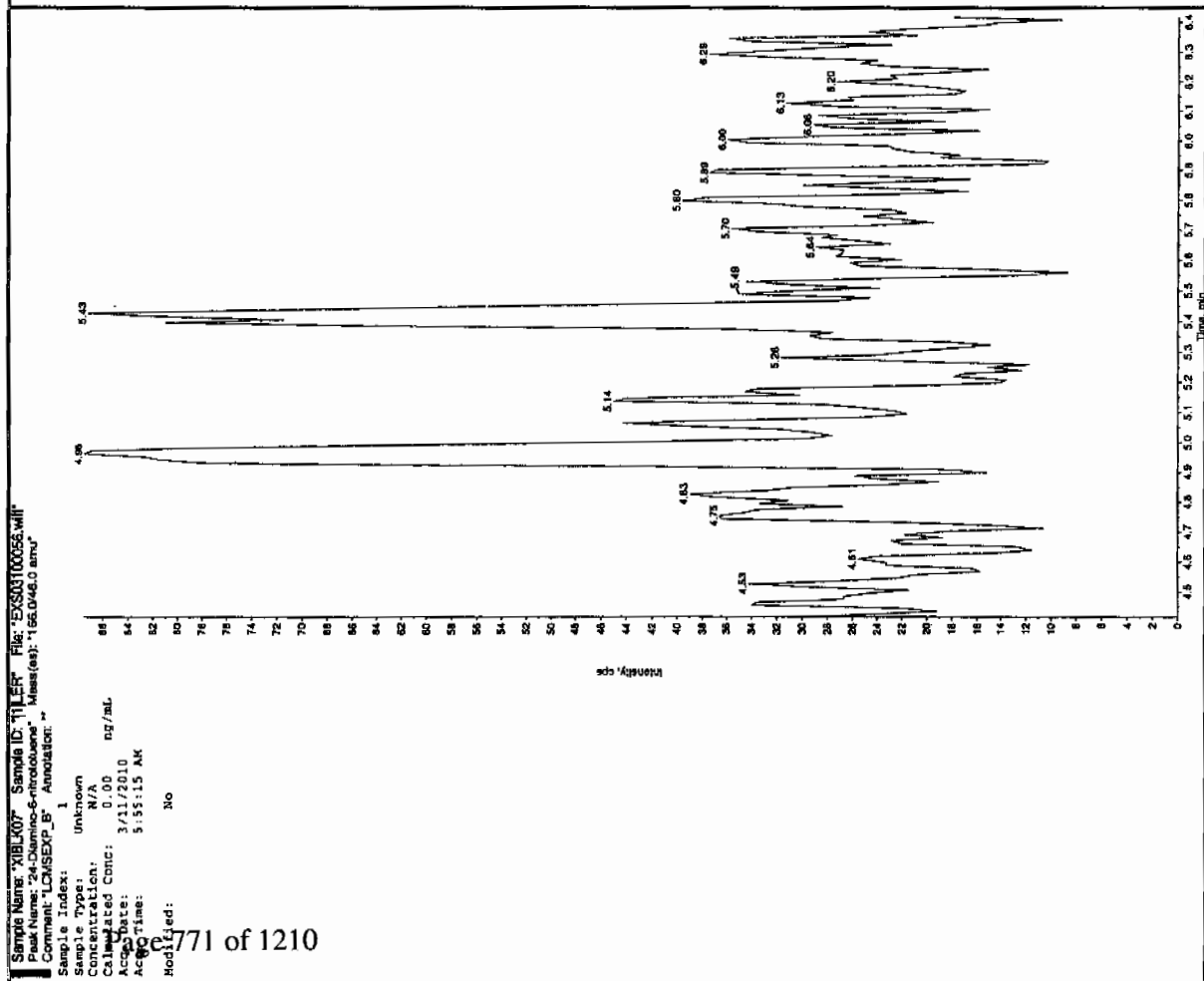
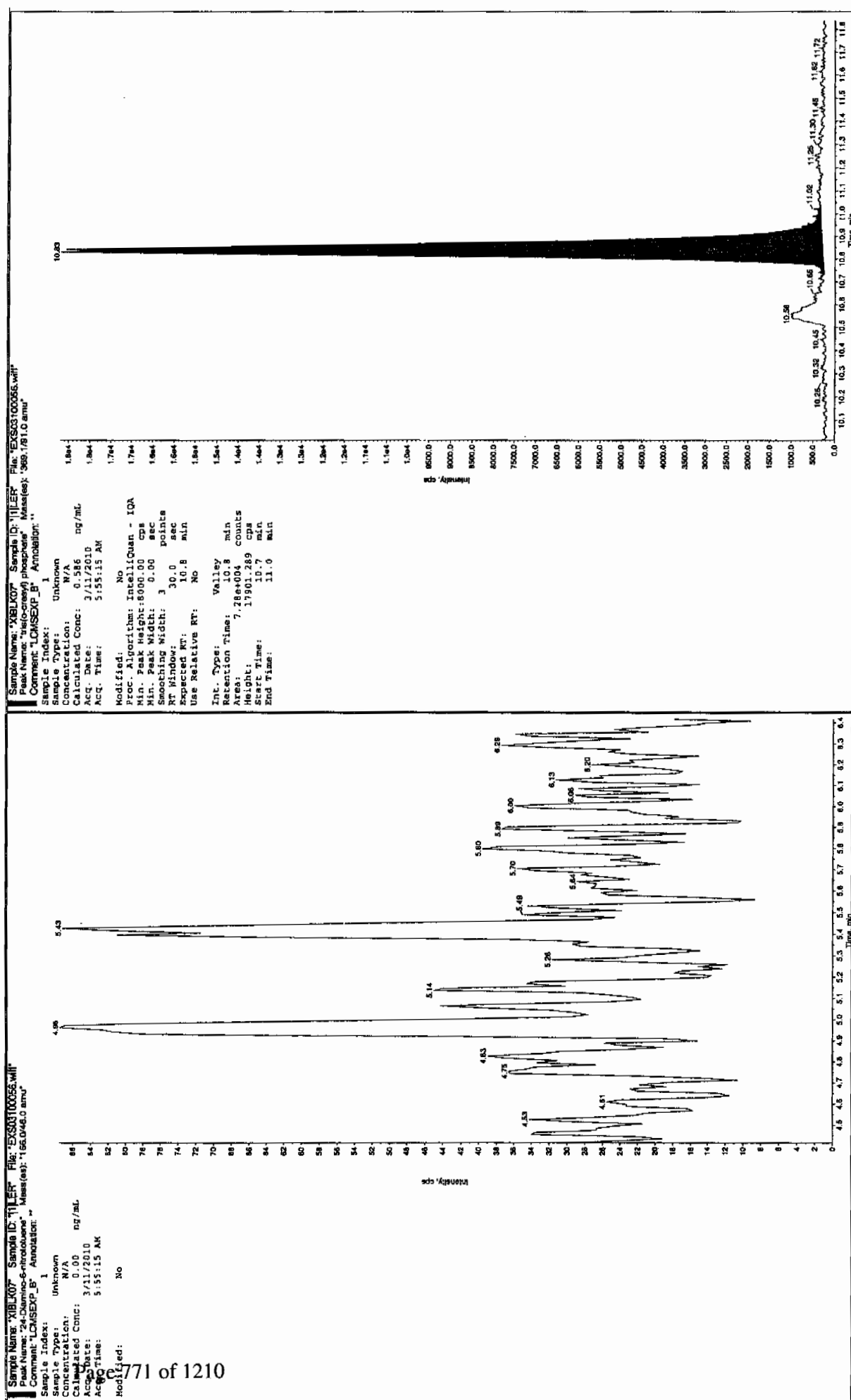
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.586
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

len 3/14/10



4/11/03/15/10





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 11-MAR-10 08:48

GEL Data File: EXS03100067.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.418
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/14/10

Sample Name: "XIBLX06" Sample ID: "J1LER" File: "EXS03100067.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

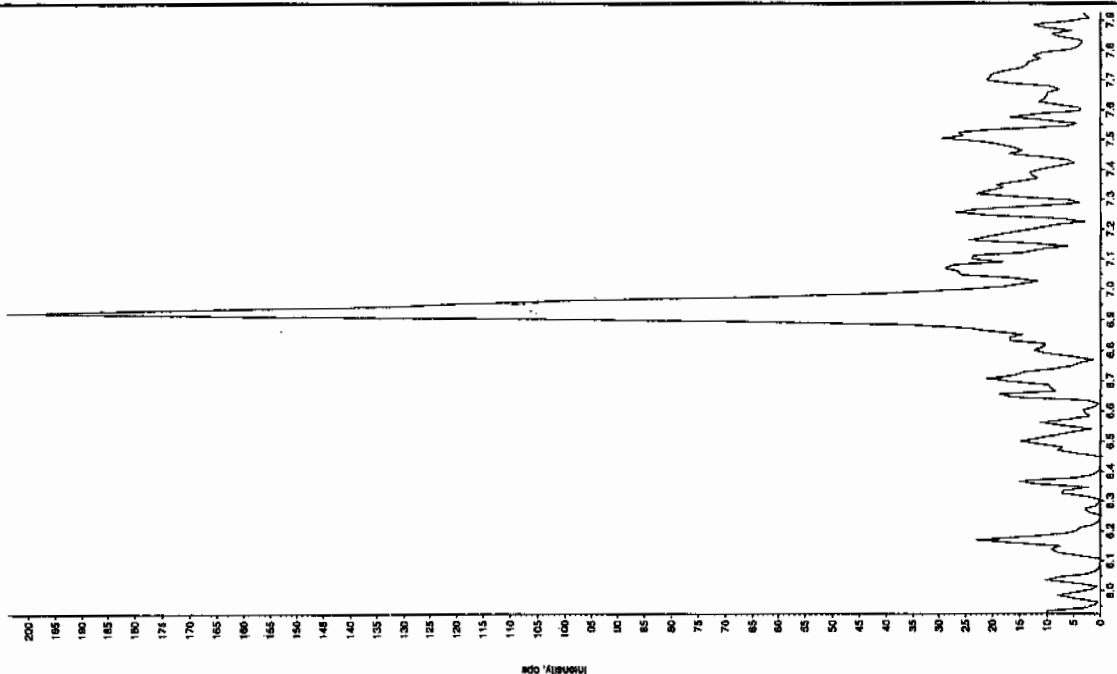
Concentration: 0.00 ng/mL

Calculated Conc: 3/11/2010

Acq. Date: 8:48:02 AM

Acq. Time: 8:48:02 AM

Modified: No



Sample Name: "XIBLX06" Sample ID: "J1LER" File: "EXS03100067.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

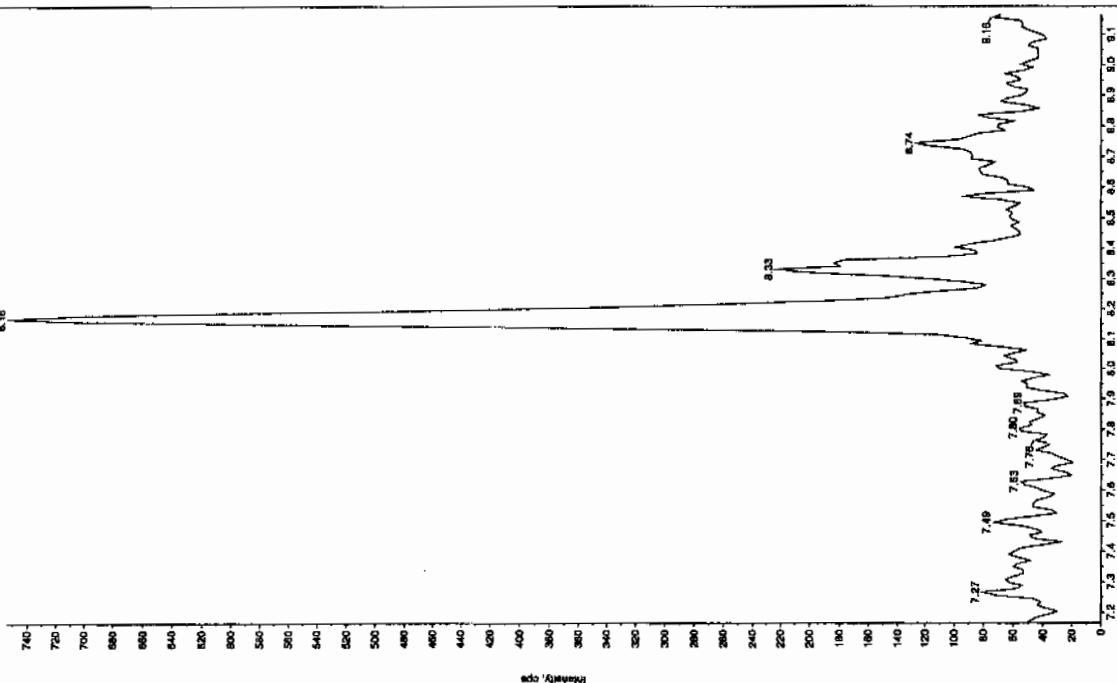
Concentration: 0.00 ng/mL

Calculated Conc: 3/11/2010

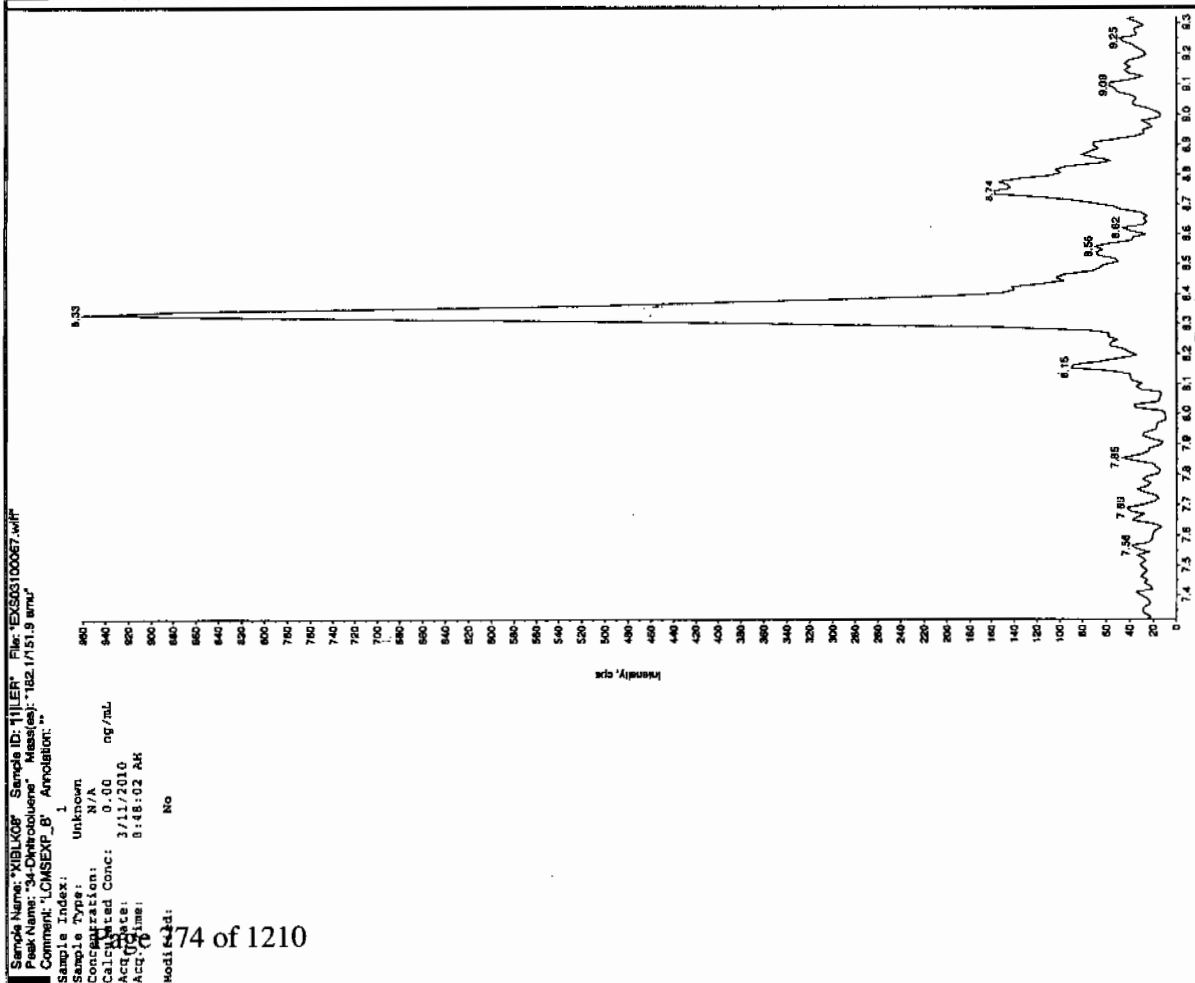
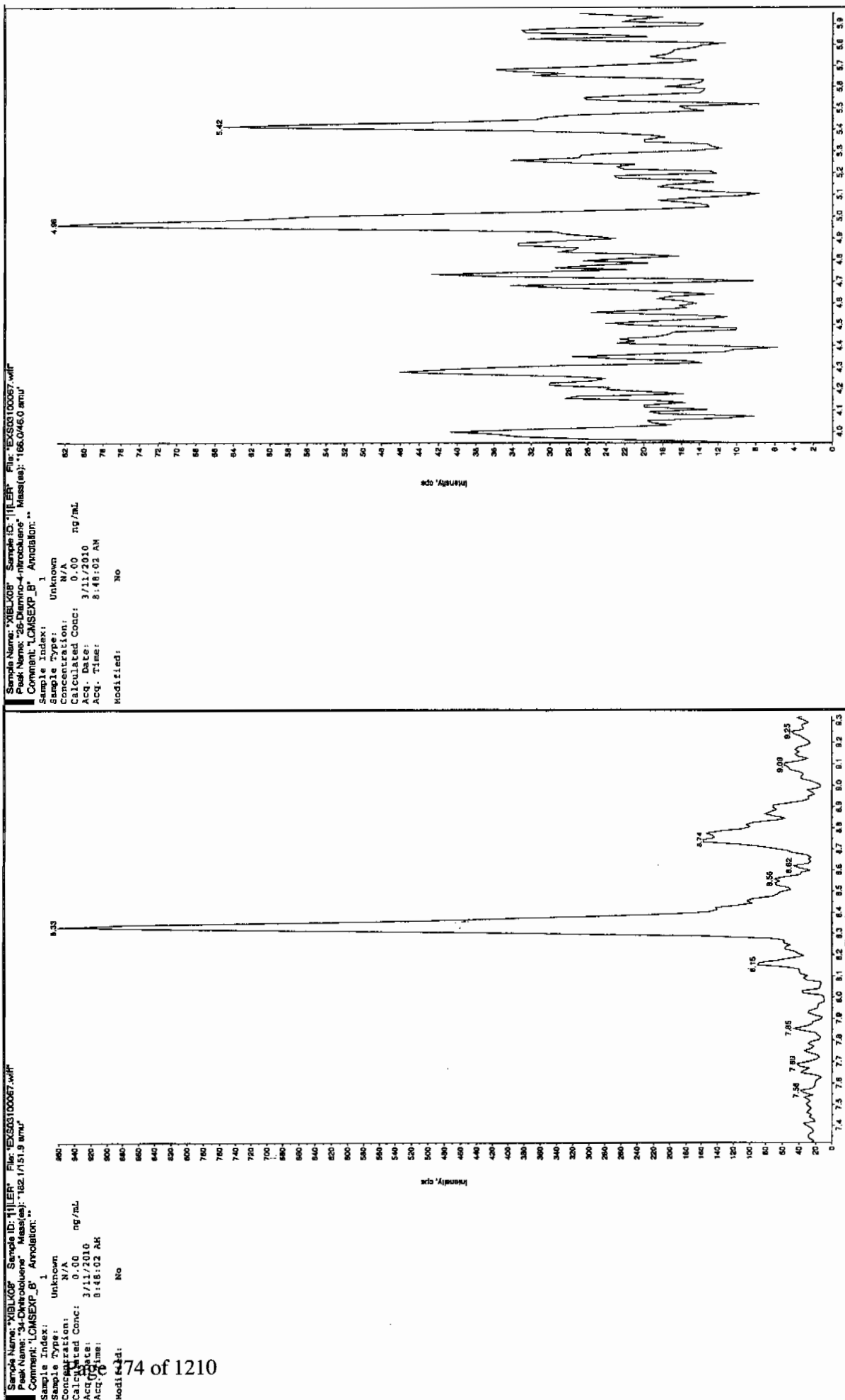
Acq. Date: 8:48:02 AM

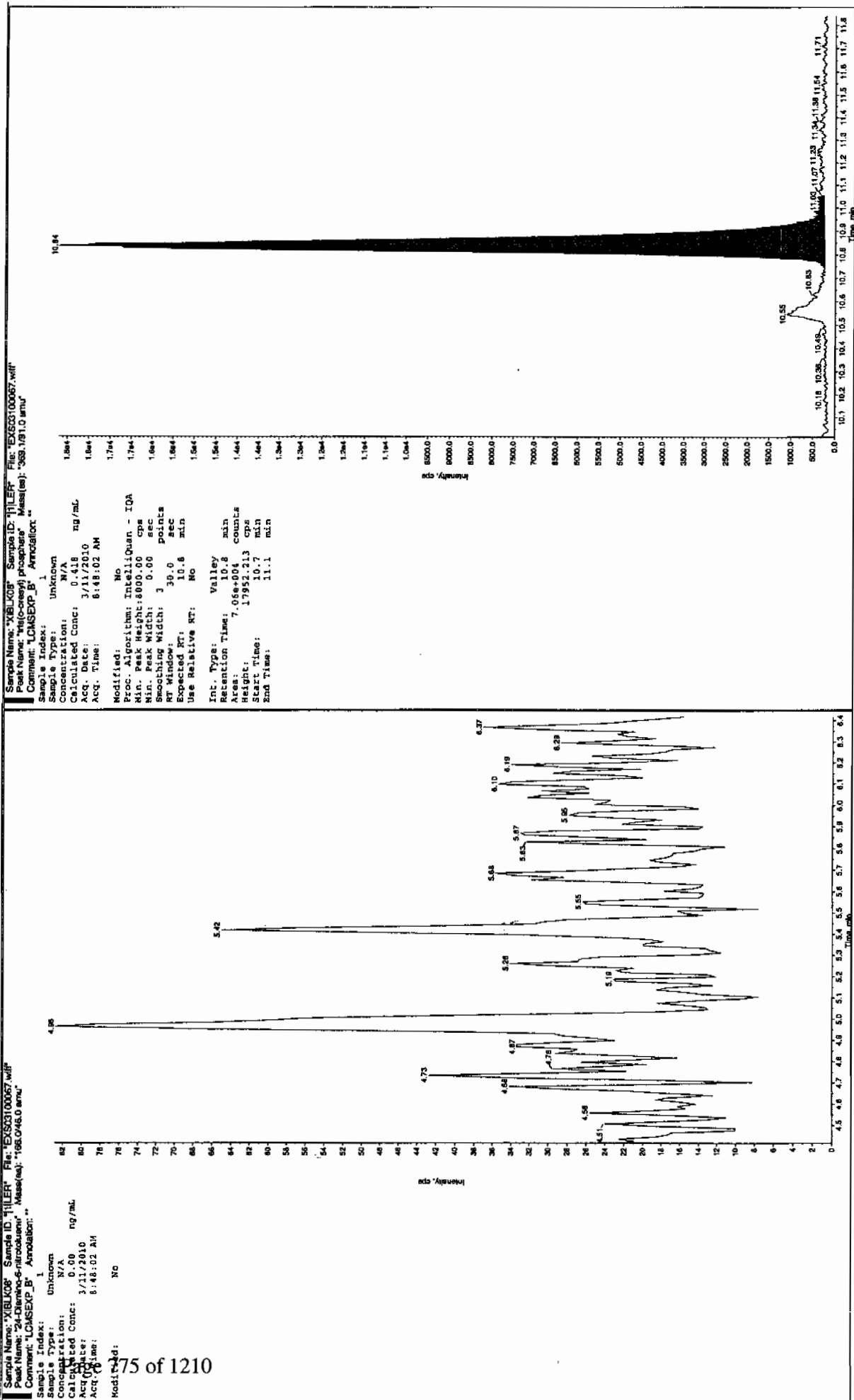
Acq. Time: 8:48:02 AM

Modified: No



Jan 03/15/10





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 11-MAR-10 12:12

GEL Data File: EXS03100080.wiff

Instrument ID: LCMSMS

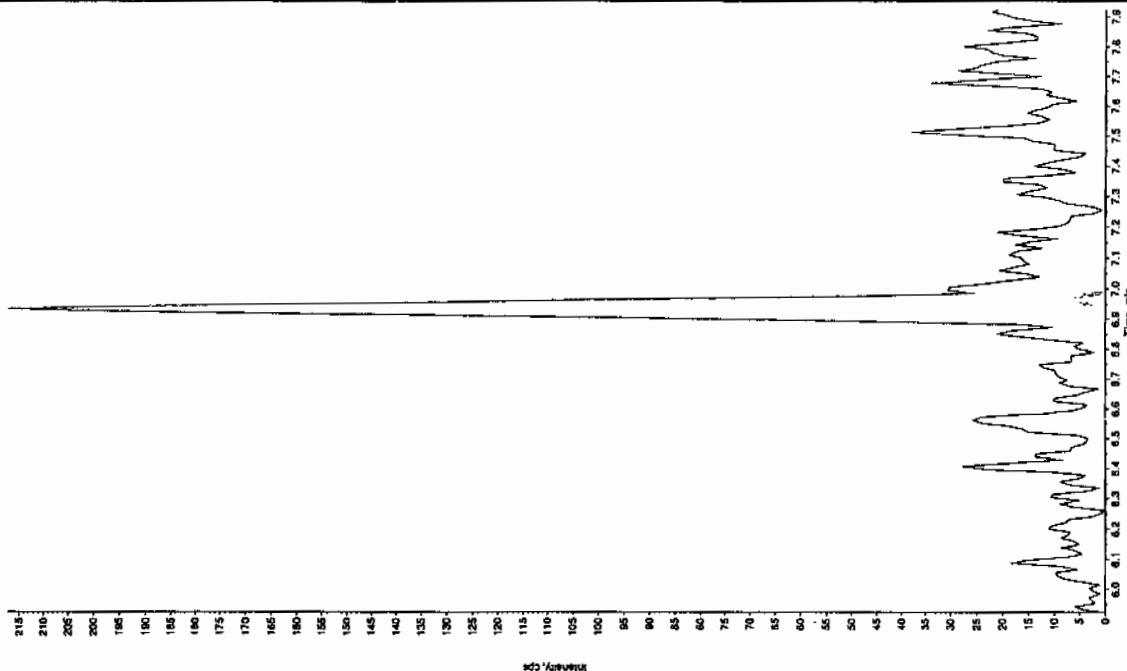
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.467
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

3/14/10

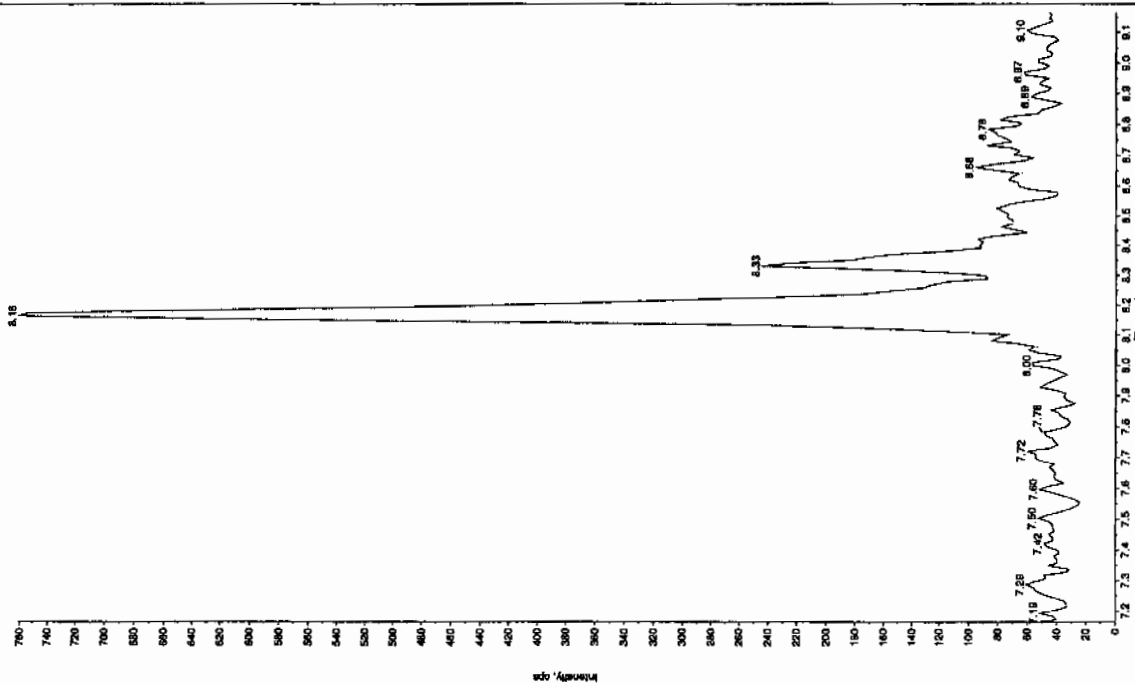
Sample Name: "XELK09" Sample ID: "TILLER" File: "EXS03100080.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:12:09 PM
 Modified: No

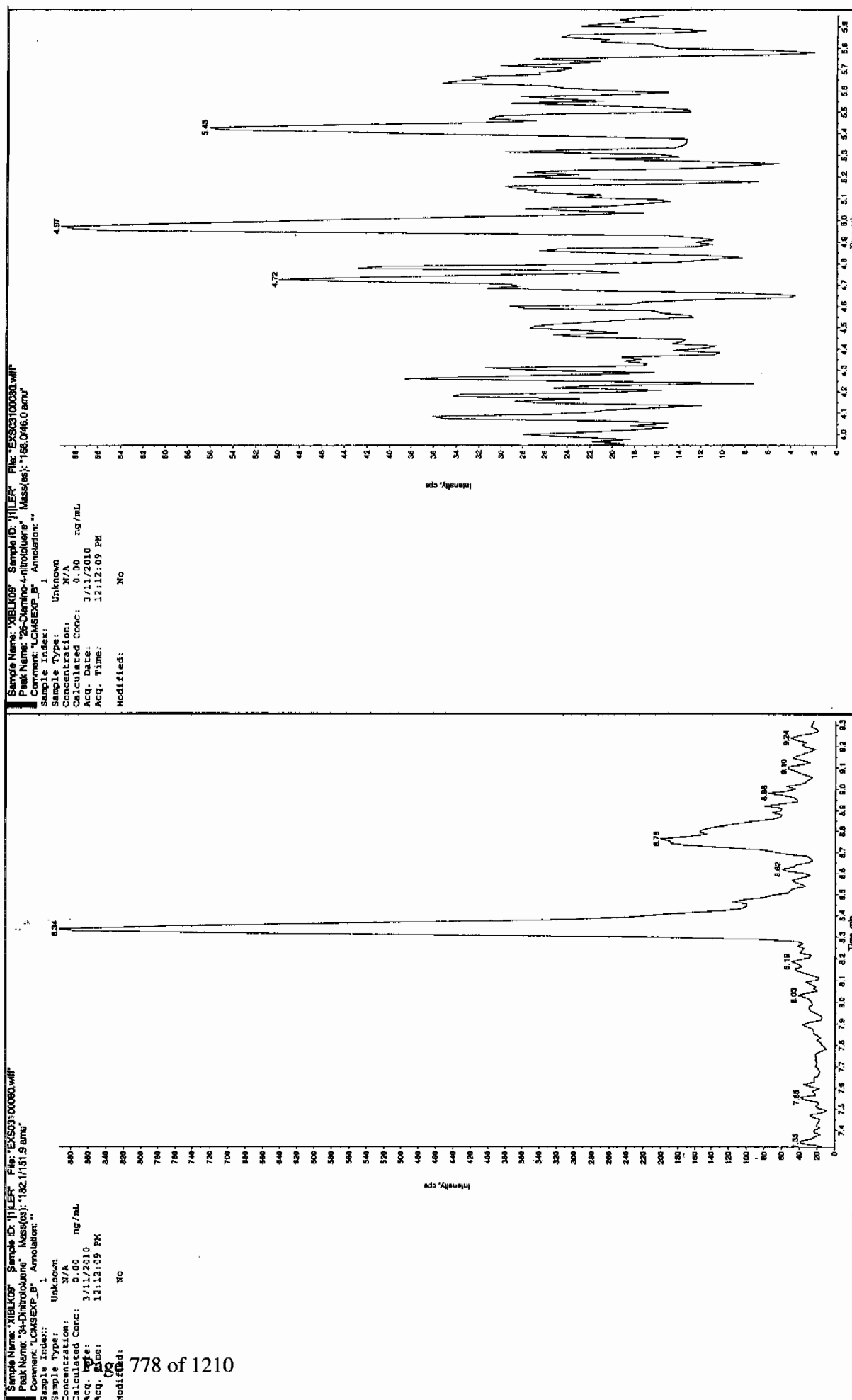


Sample Name: "XELK09" Sample ID: "TILLER" File: "EXS03100080.will"
 Peak Name: "35-Dinitrobenz" Mass(es): "182.046.0 amu"
 Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:12:09 PM
 Modified: No

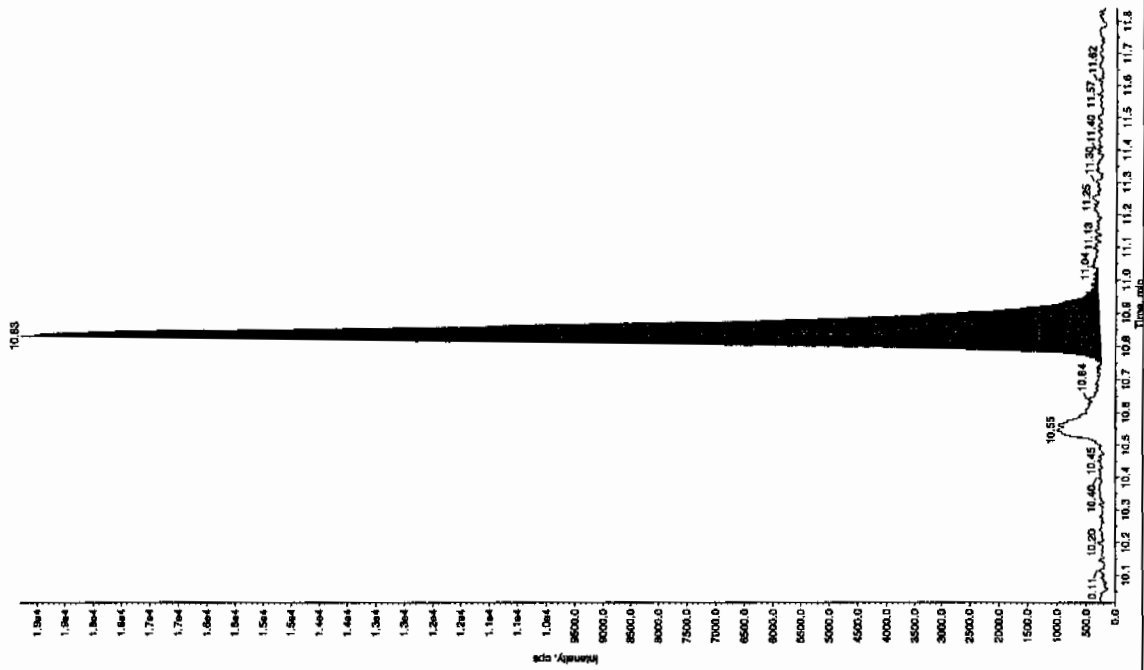


3/15/10



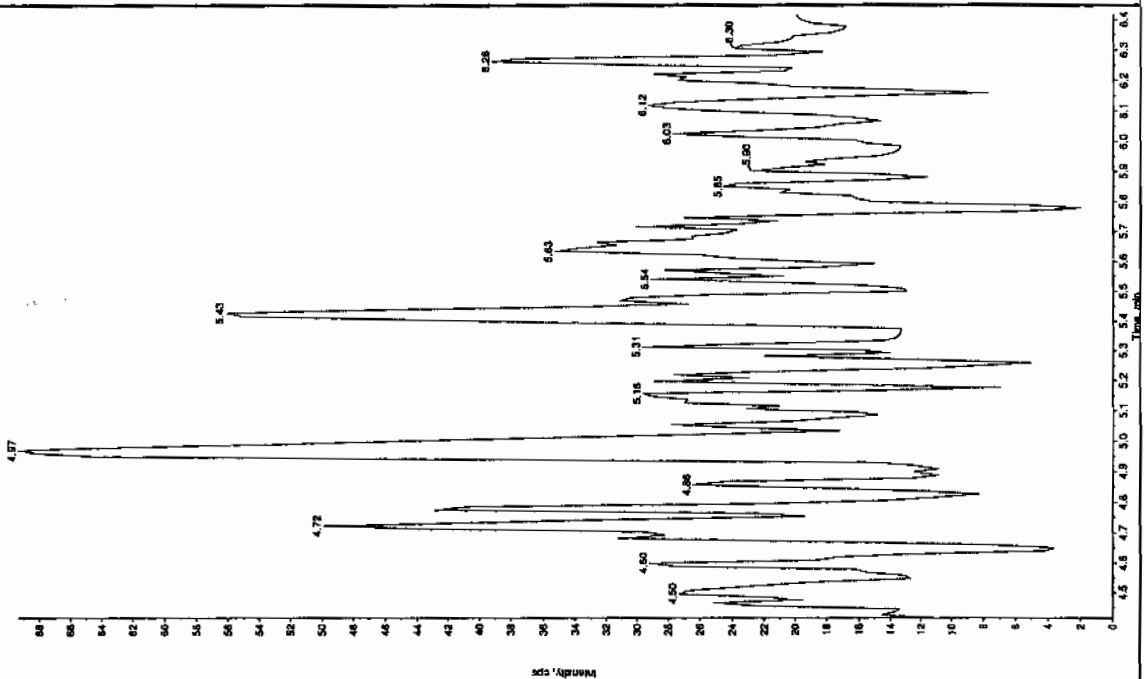
Sample Name: "XIBLK09" Sample ID: "J1LER" File: "EX503100080.wif"
 Peak Name: "bis(c-ores) phosphate" Mass(es): "369.1791.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.467 ug/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:12:05 PM
 Modified: No
 Proc. Algorithm: Intelliguam - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 7.12e+004 counts
 Height: 19043.472 cps
 Start Time: 10.7 min
 End Time: 11.0 min



Sample Name: "XIBLK09" Sample ID: "J1LER" File: "EX503100080.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.0465.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:12:05 PM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 11-MAR-10 15:36

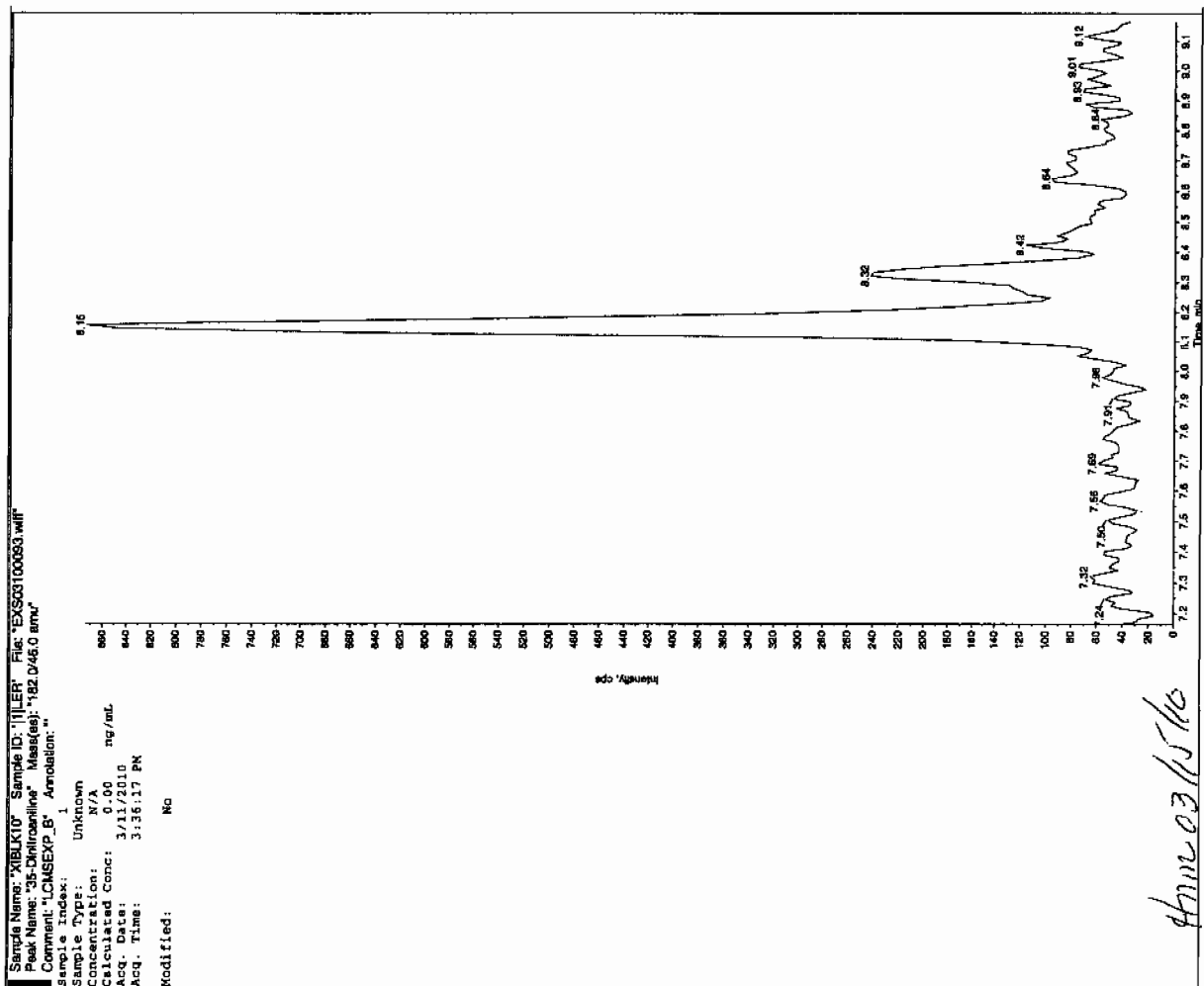
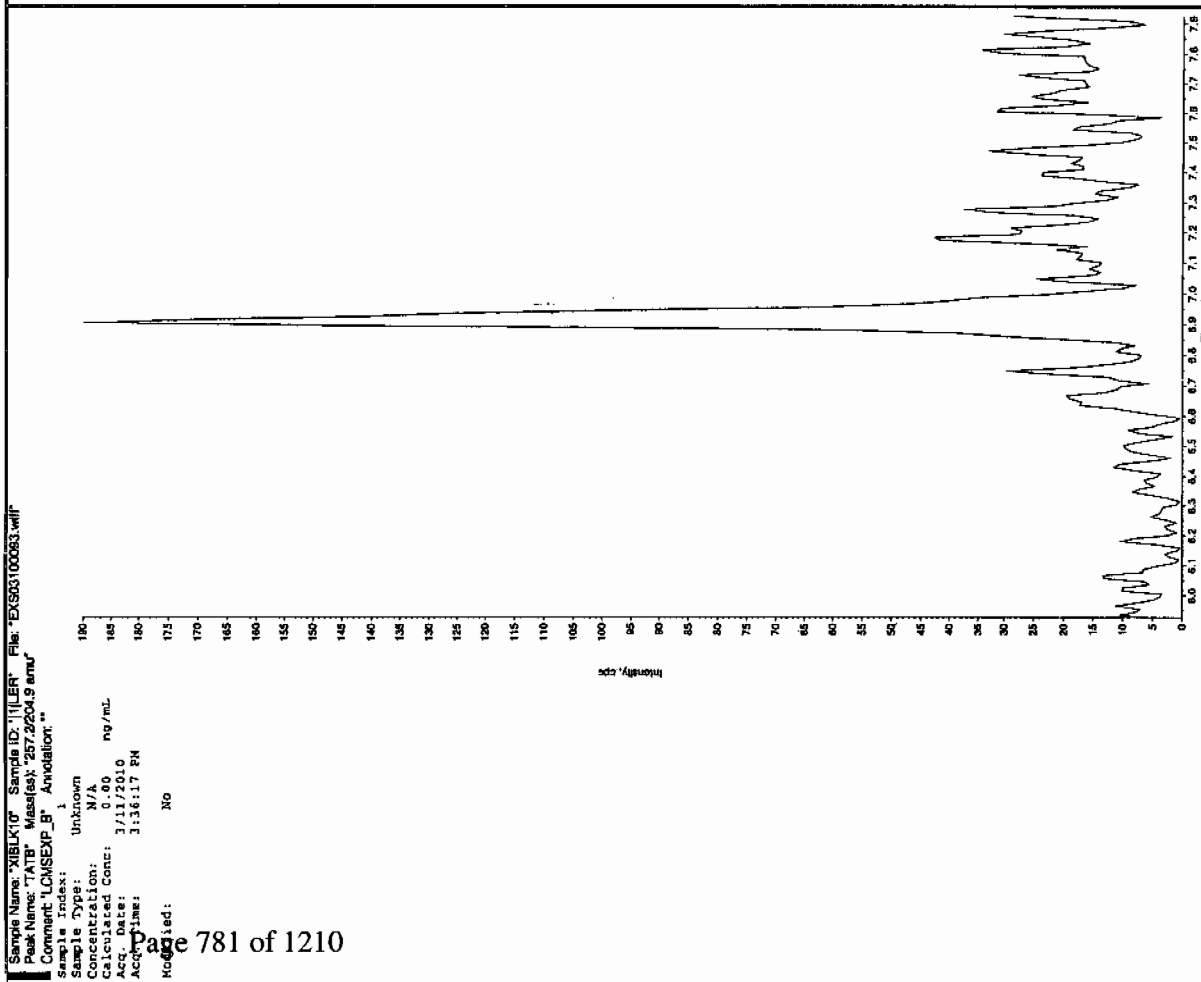
GEL Data File: EXS03100093.wiff

Instrument ID: LCMSMS

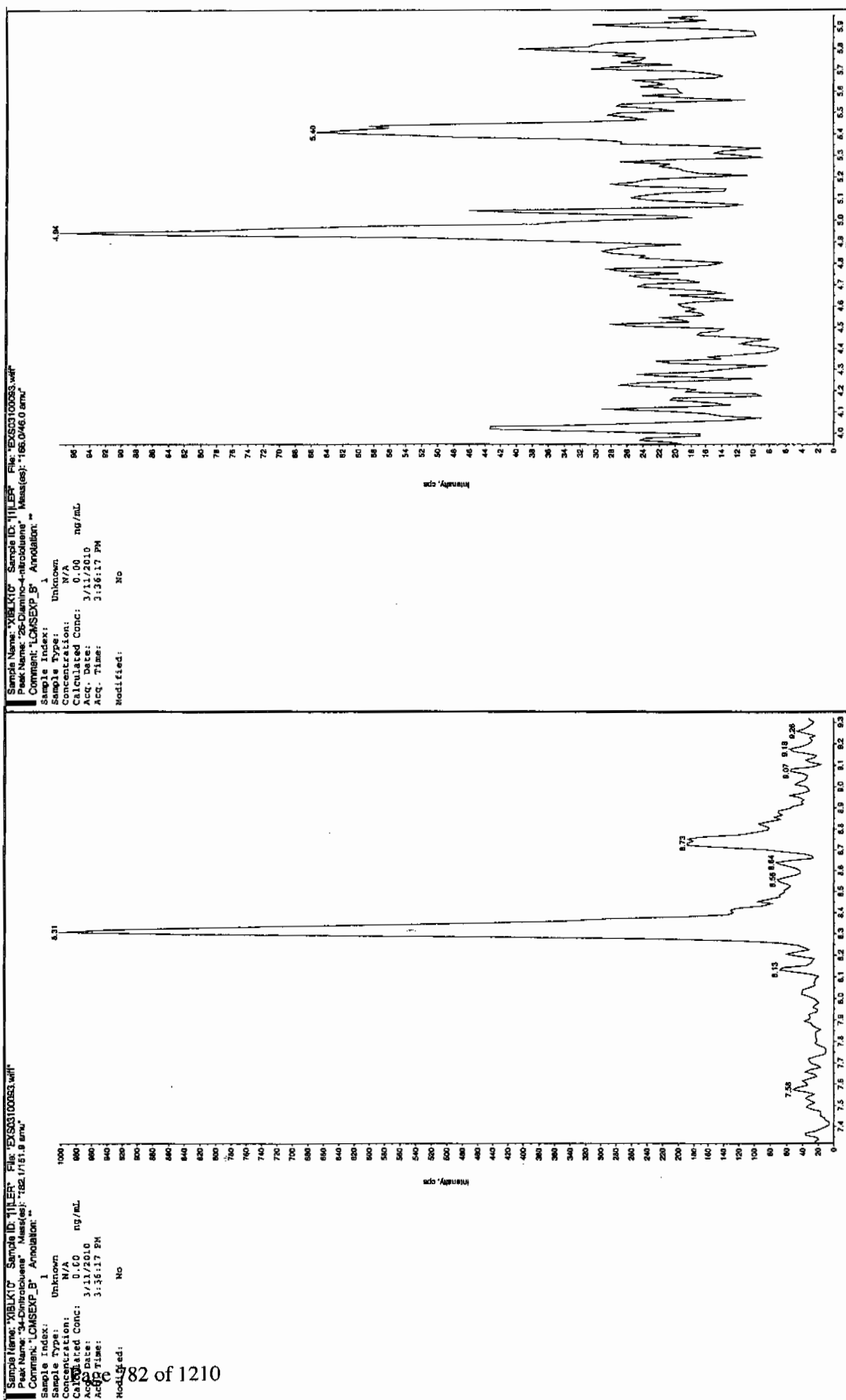
Column: Phenomenex Ultracarb 5u ODS(20)

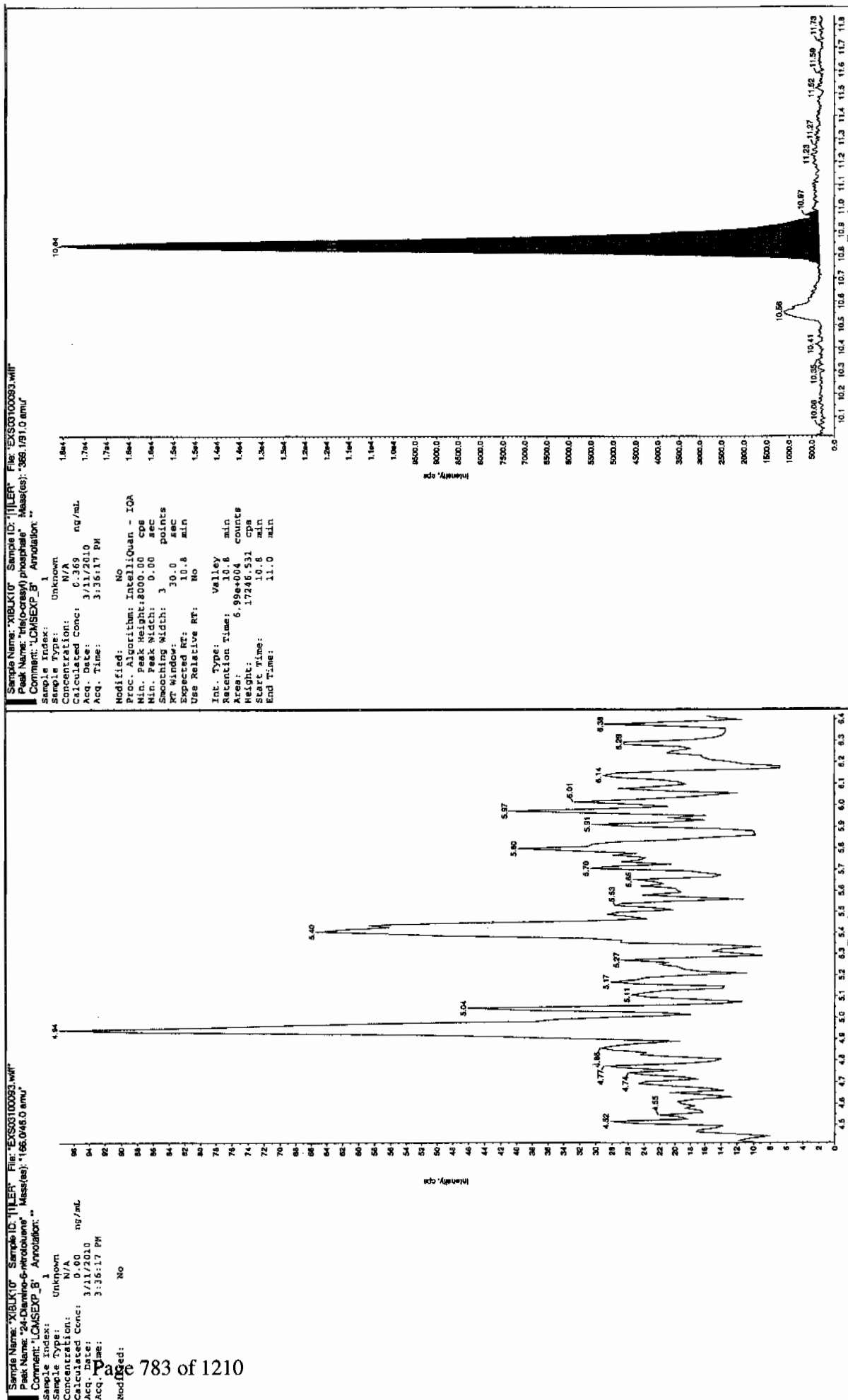
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.369
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 11-MAR-10 18:28

GEL Data File: EXS03100104.wiff

Instrument ID: LCMSMS

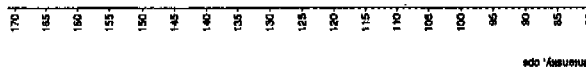
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.433
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/14/10

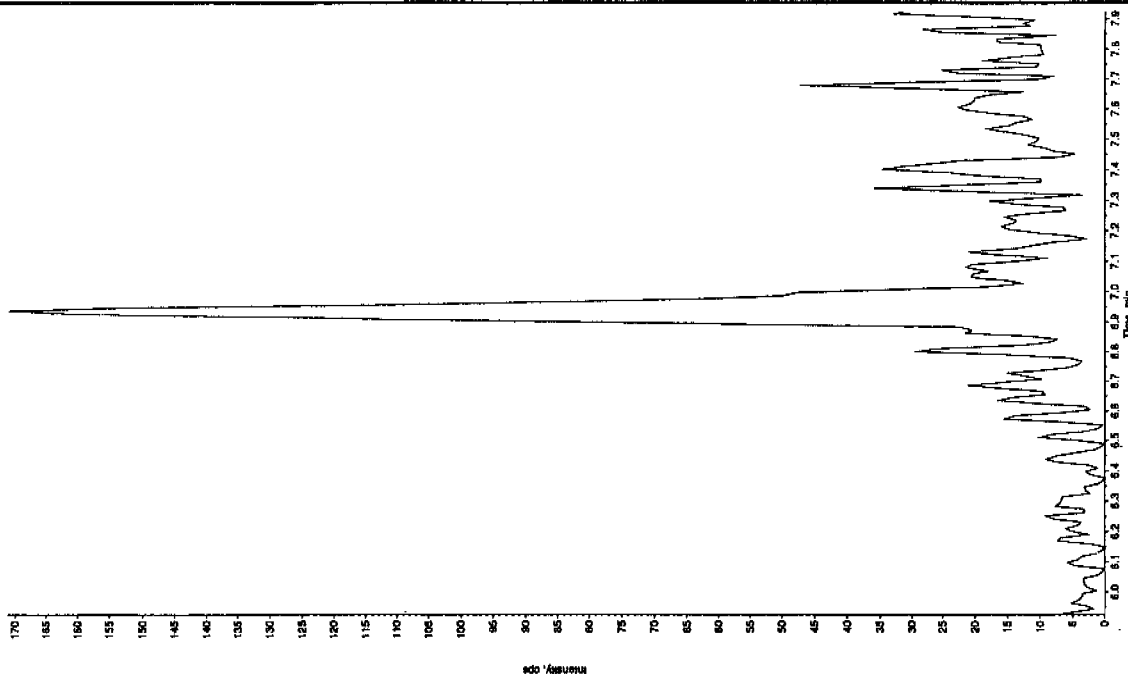
Sample Name: "XIBLK11" Sample ID: "TILER" File: "EXS03100104.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/31/2010
 Acq. Time: 6:28:58 PM
 Modified: No

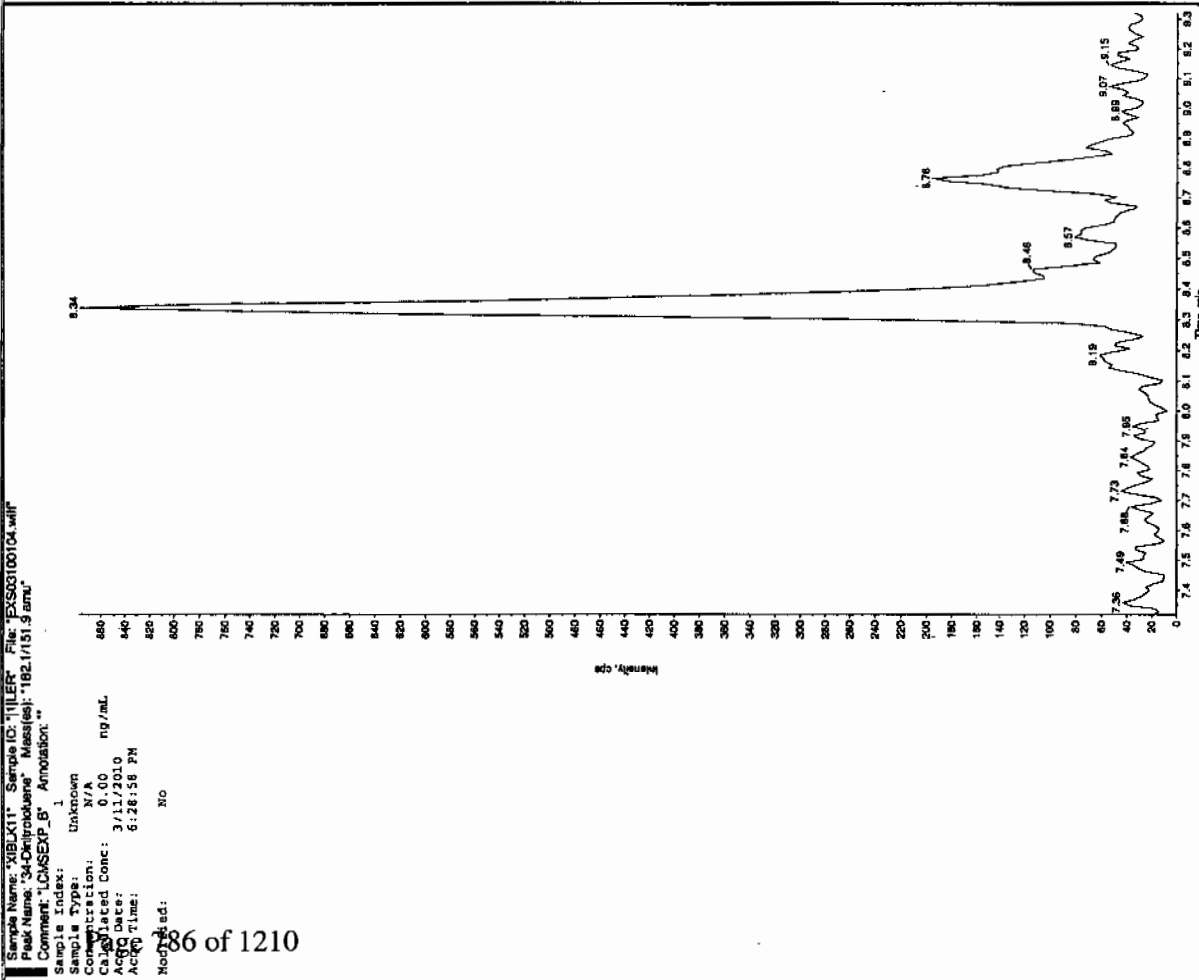
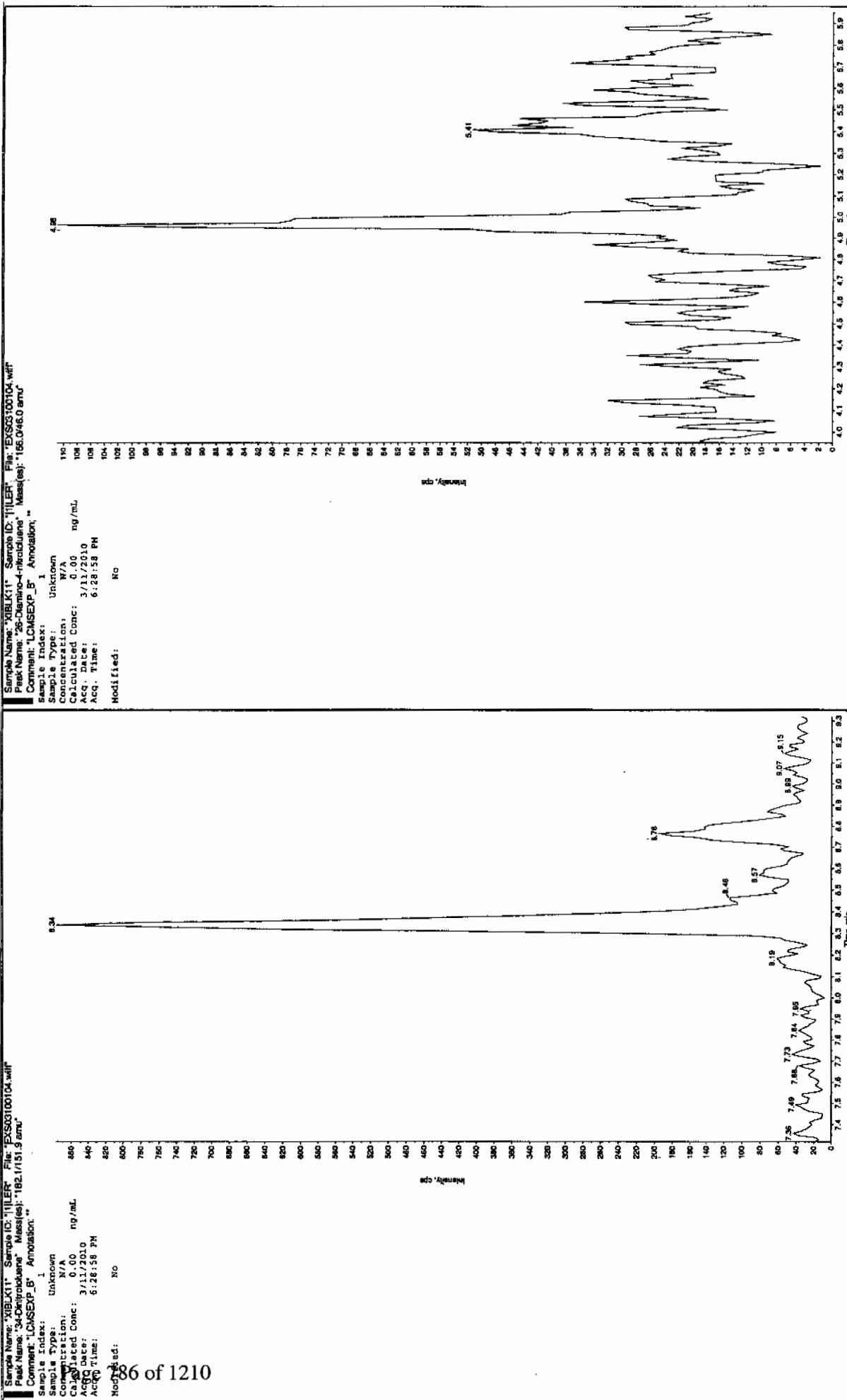


Sample Name: "XIBLK11" Sample ID: "TILER" File: "EXS03100104.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/31/2010
 Acq. Time: 6:28:58 PM
 Modified: No



Jan 3/14/10



Sample Name: "XBLX11" Sample ID: "11111" File: "EXS03100104.wif"
 Peak Name: "24-Diamino-5-nitroketone" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:28:58 PM
 Modified: No

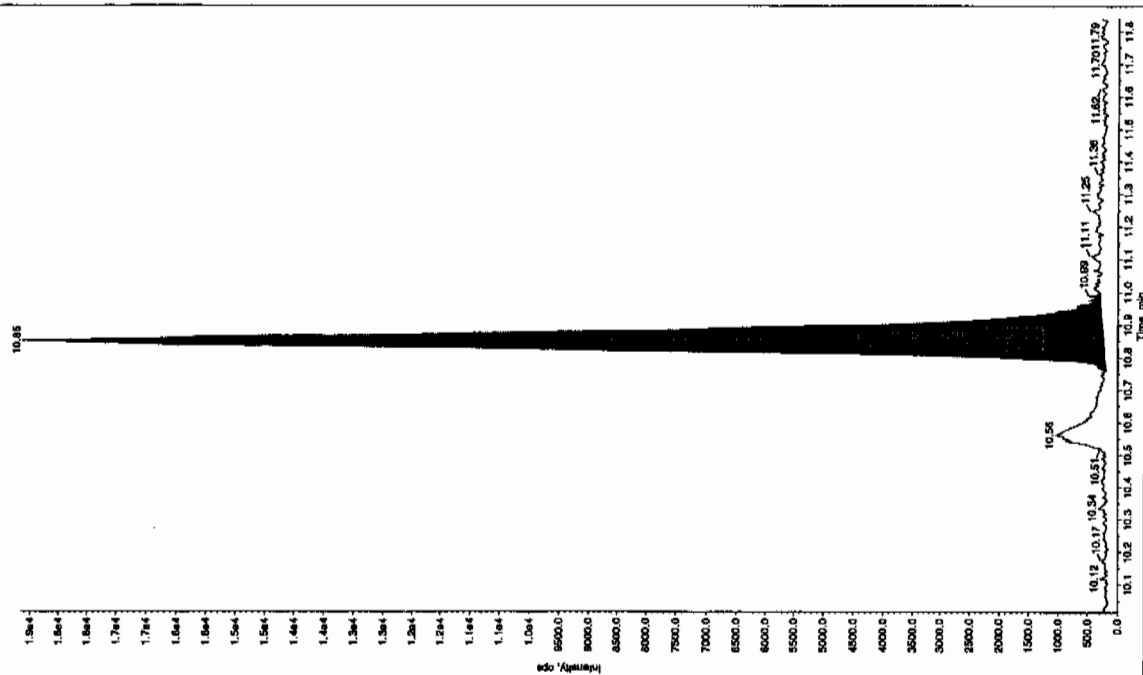
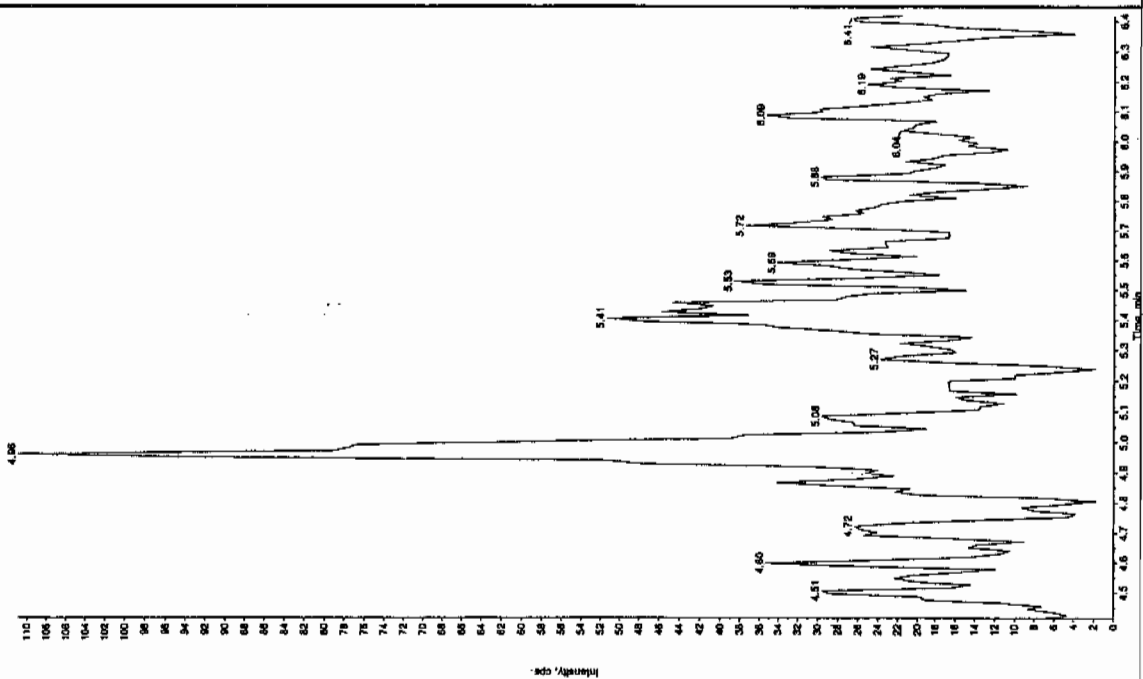
Proc. Algorithm: Intelliguam - IQA
 Min. Peak Height: 6000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.8 min
 Area: 7.06e+004 counts
 Height: 18405.753 cps
 Start Time: 10.8 min
 End Time: 11.0 min

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.433 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:28:58 PM
 Modified: No

Proc. Algorithm: Intelliguam - IQA
 Min. Peak Height: 6000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.8 min
 Area: 7.06e+004 counts
 Height: 18405.753 cps
 Start Time: 10.8 min
 End Time: 11.0 min



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 11-MAR-10 21:53

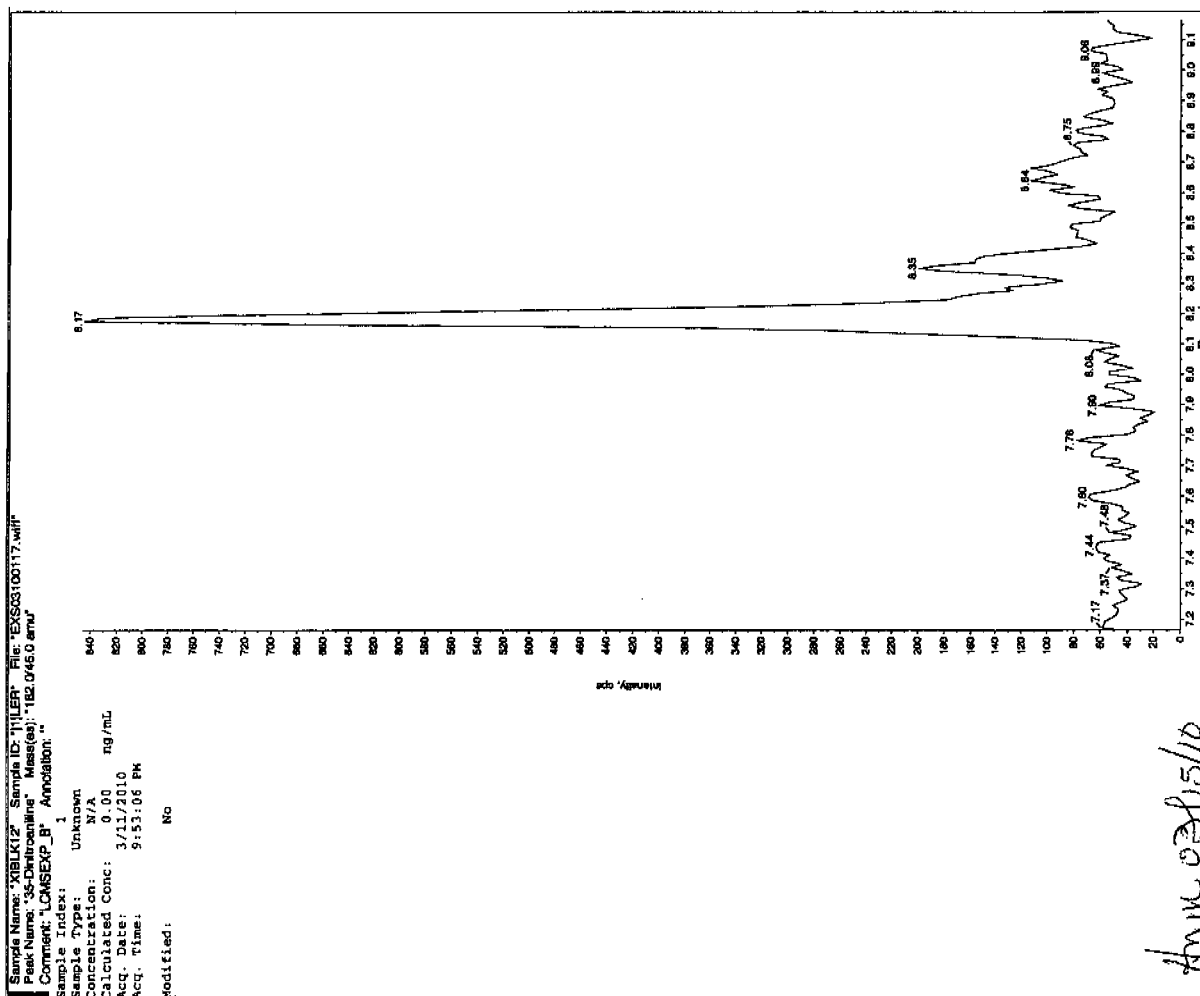
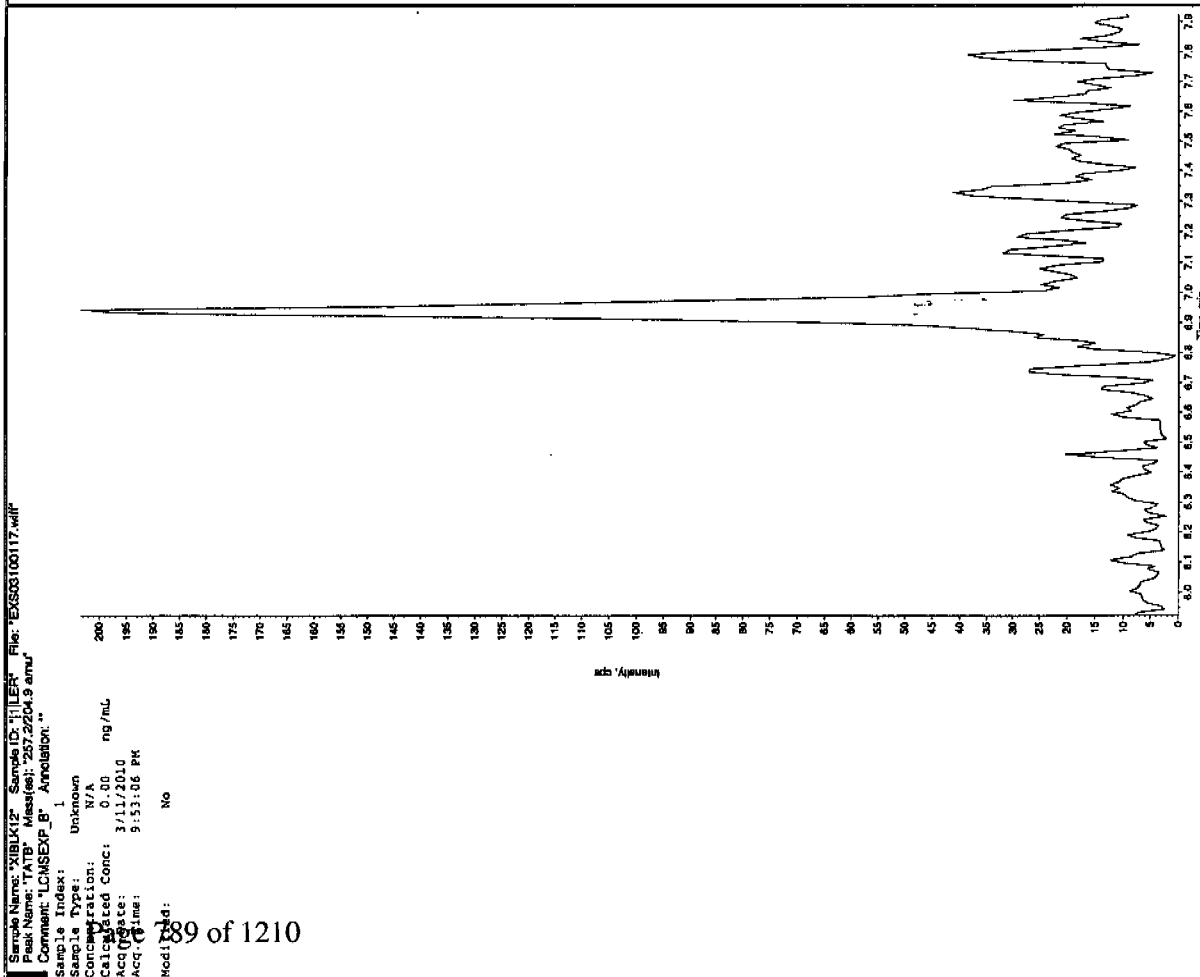
GEL Data File: EXS03100117.wiff

Instrument ID: LCMSMS

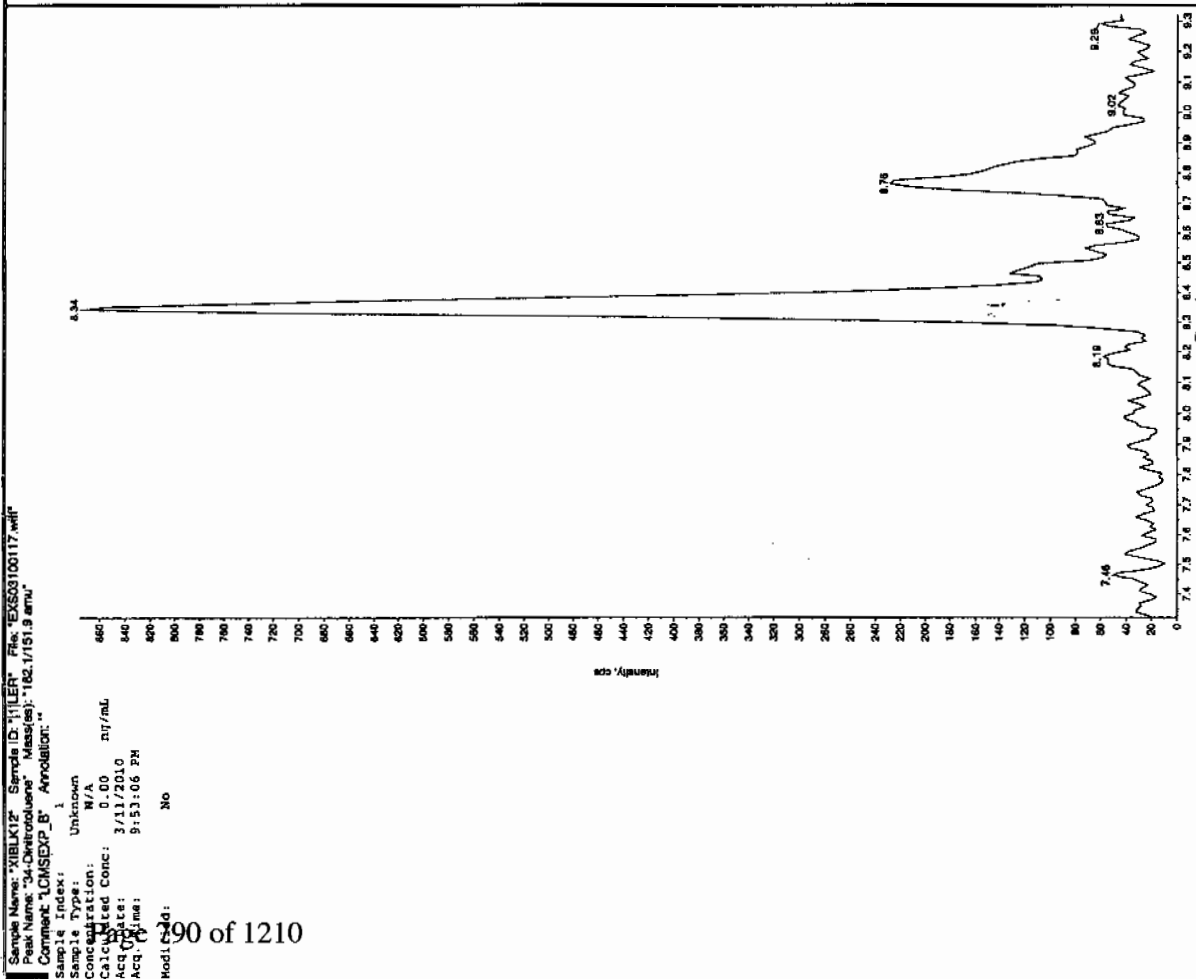
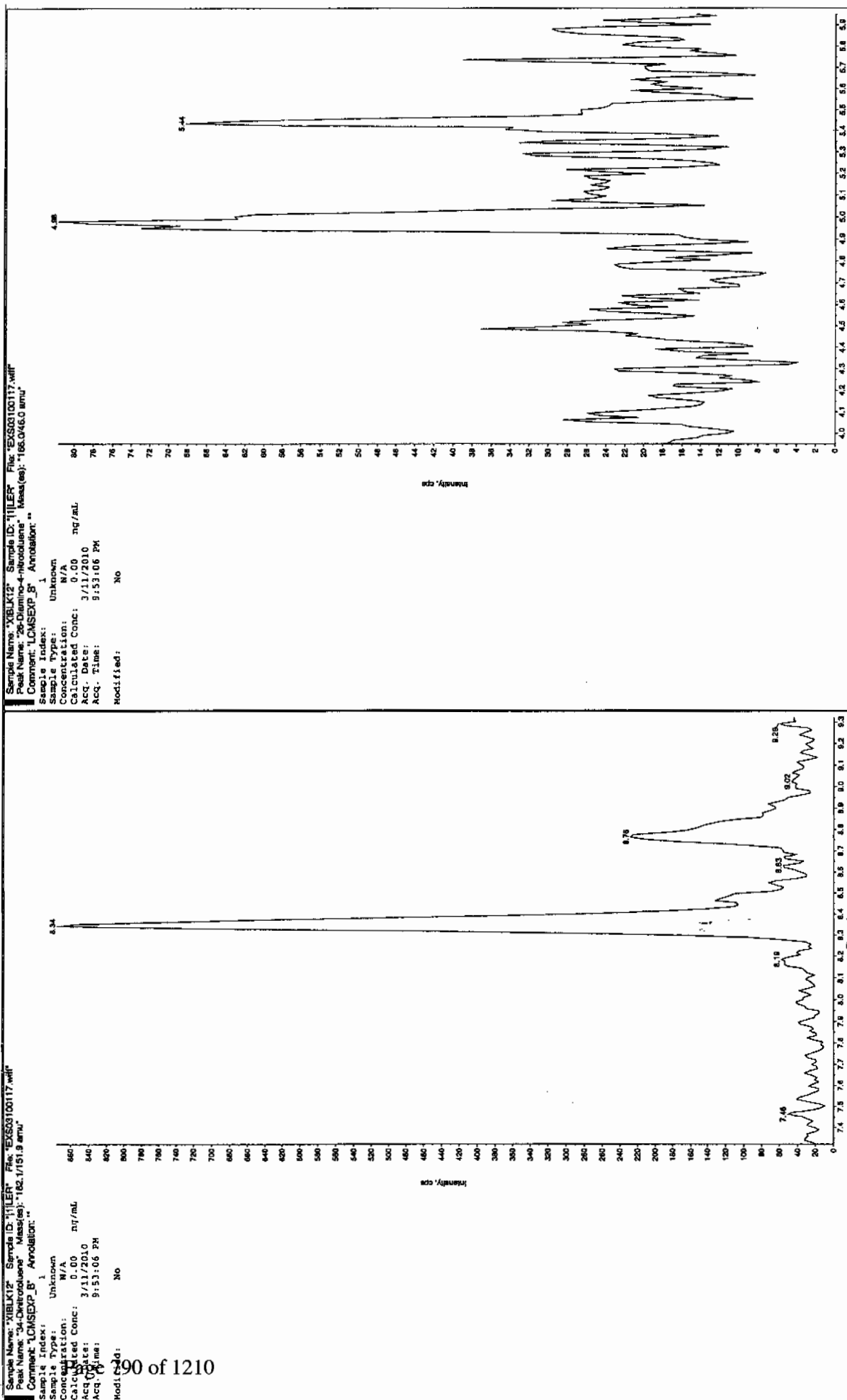
Column: Phenomenex Ultracarb 5u ODS(20)

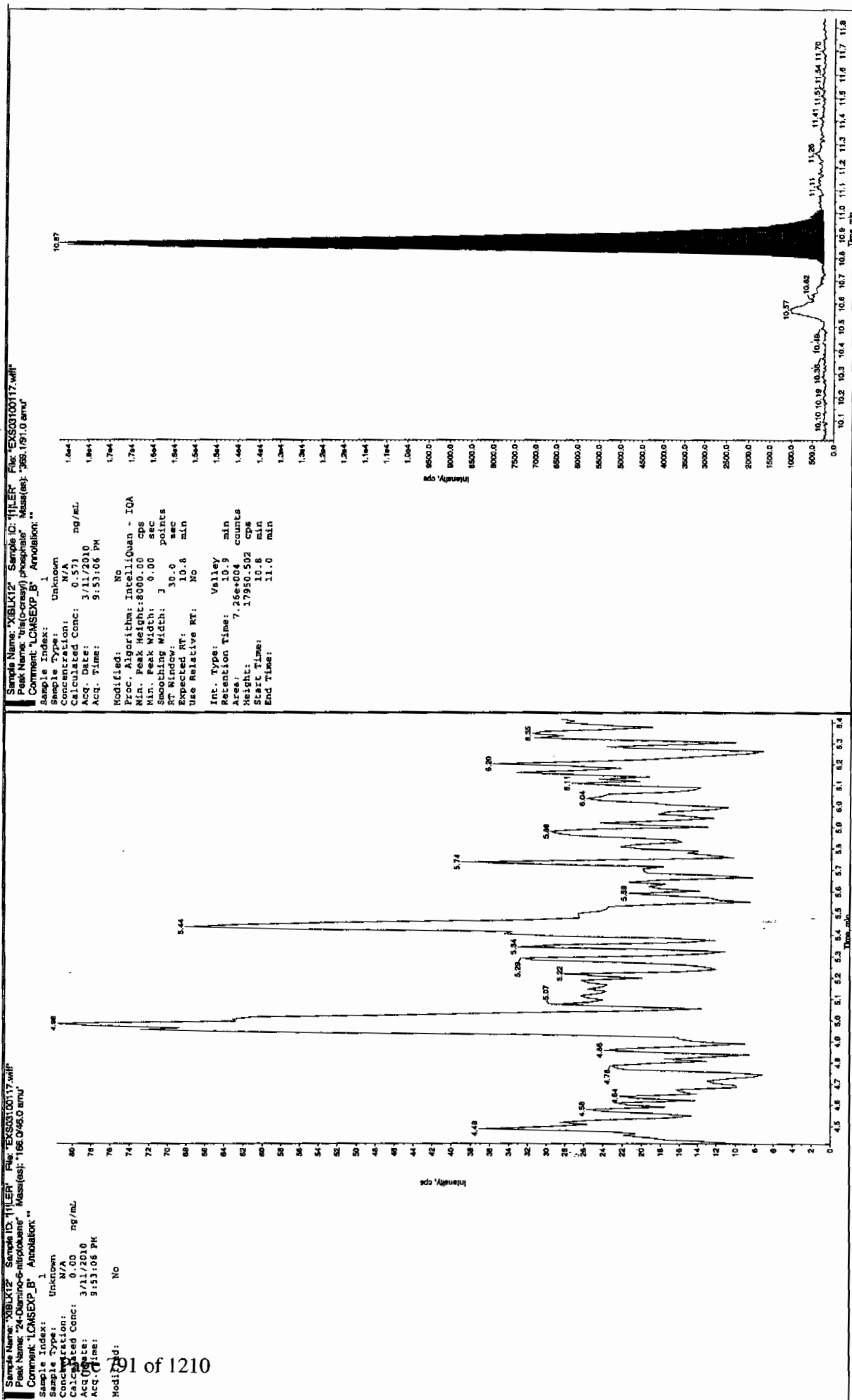
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.571
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3/14/10



Run 03/15/10





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 12-MAR-10 01:01

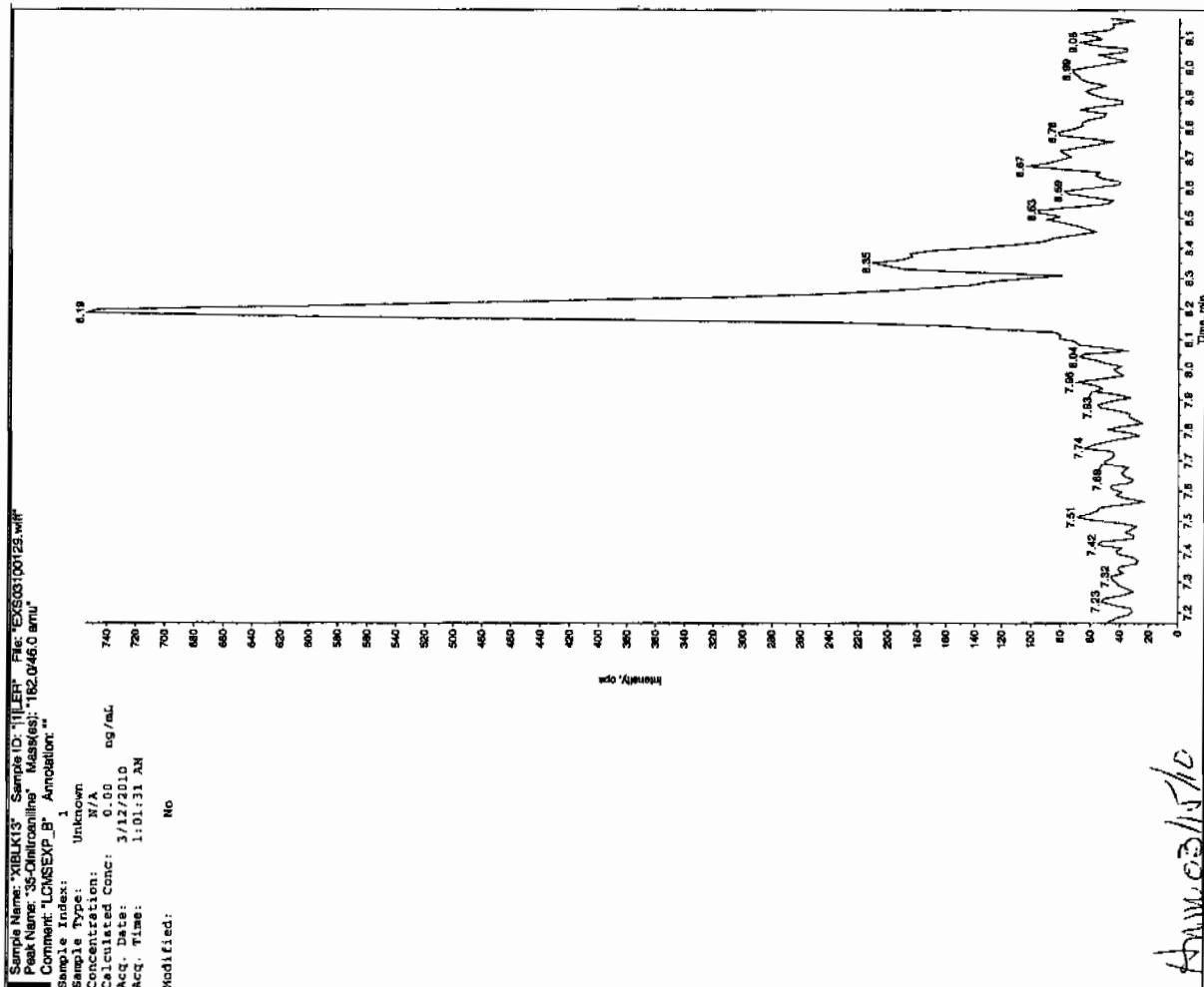
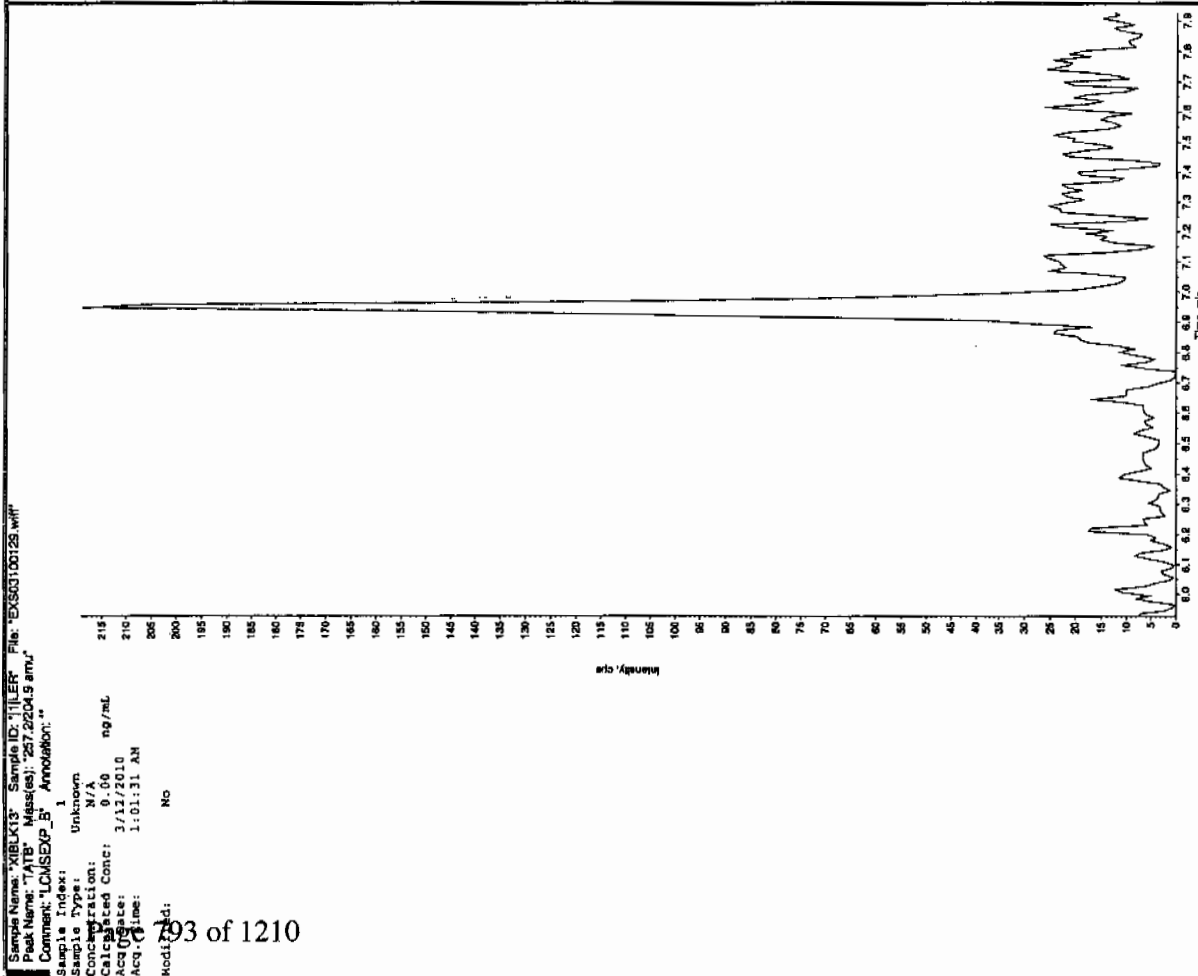
GEL Data File: EXS03100129.wiff

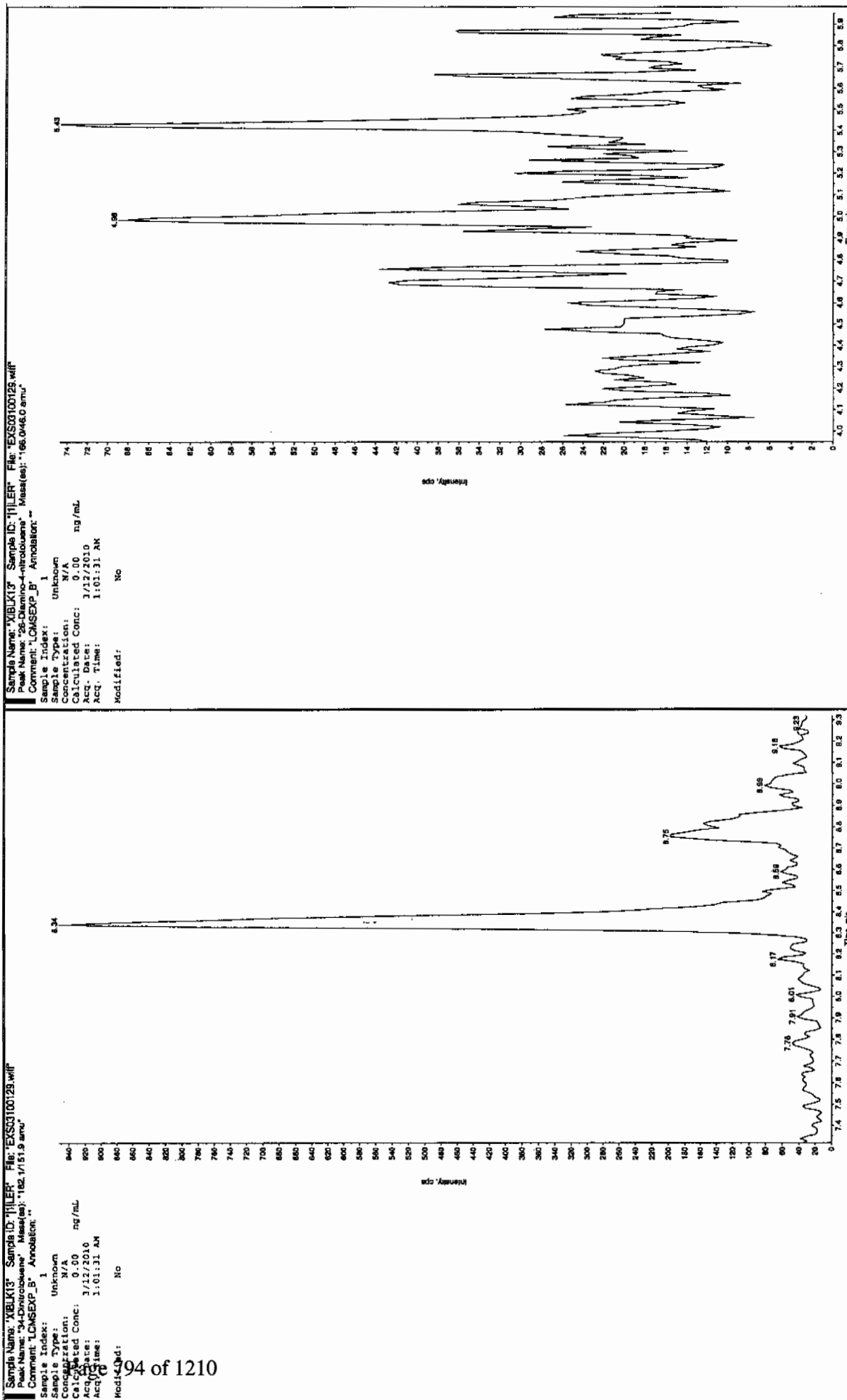
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
TATB	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.603

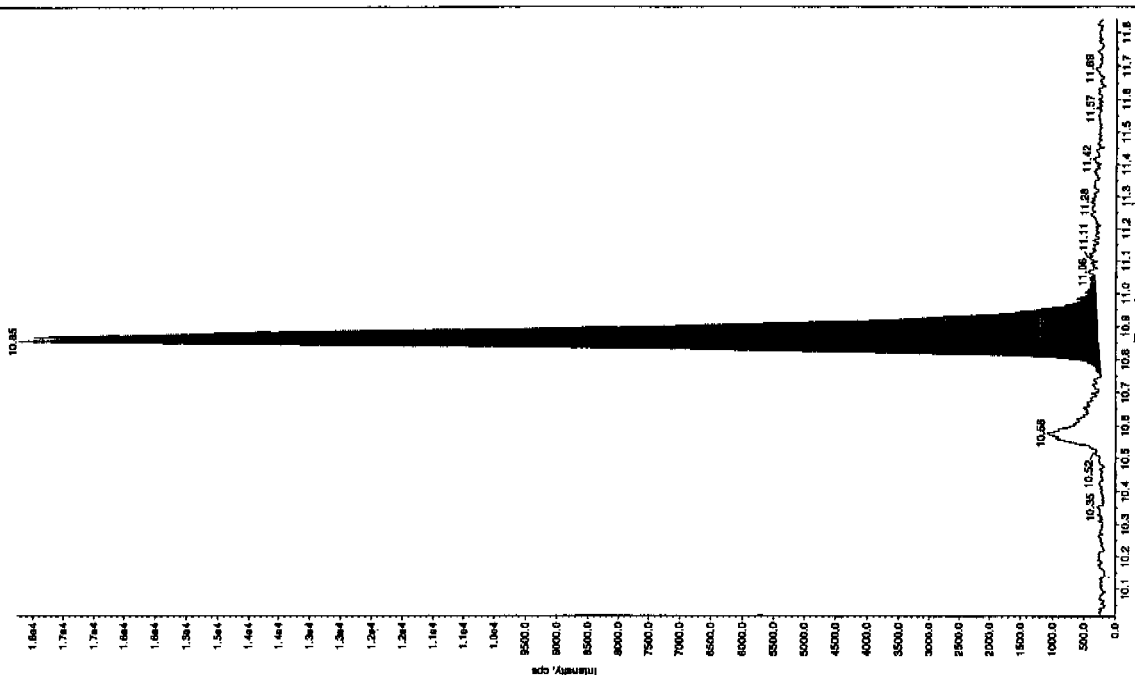
GLA 3/14/10





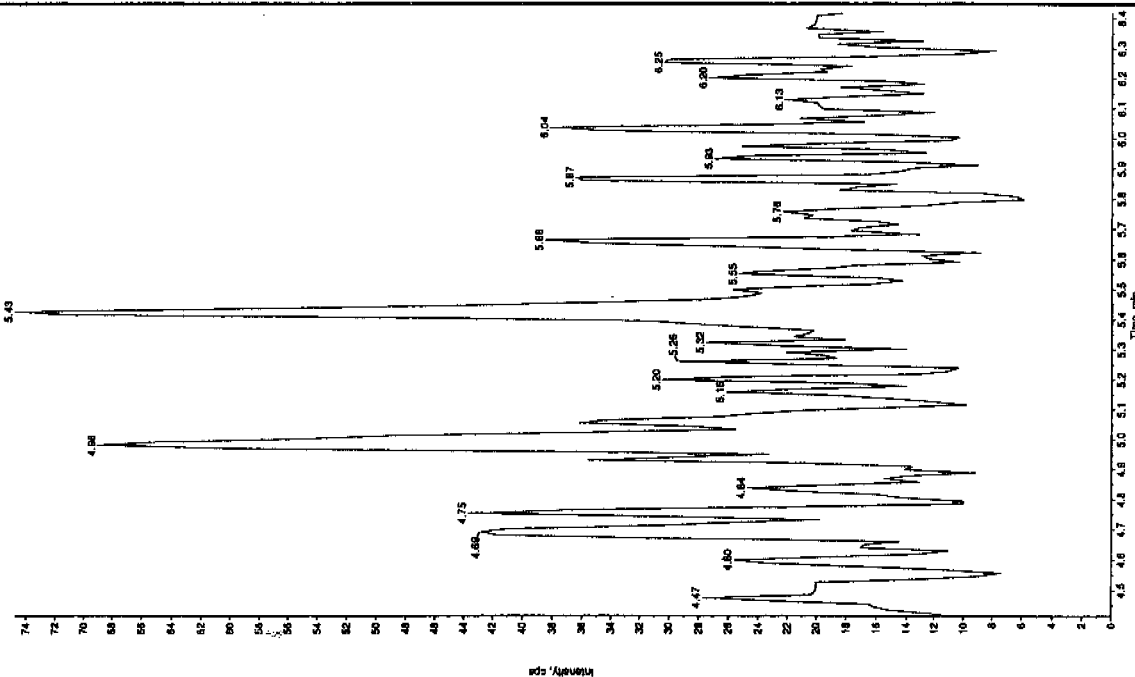
Sample Name: "XIBLK13" Sample ID: "111LBR" File: "EX503100123.wif"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "355.1/91.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.603 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 1:01:31 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.30e+004 counts
 Height: 17480.671 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBLK13" Sample ID: "111LBR" File: "EX503100123.wif"
 Peak Name: "2,4-Dinitro-6-nitrotoluene" Mass(es): "168.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 1:01:31 AM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 12-MAR-10 04:25

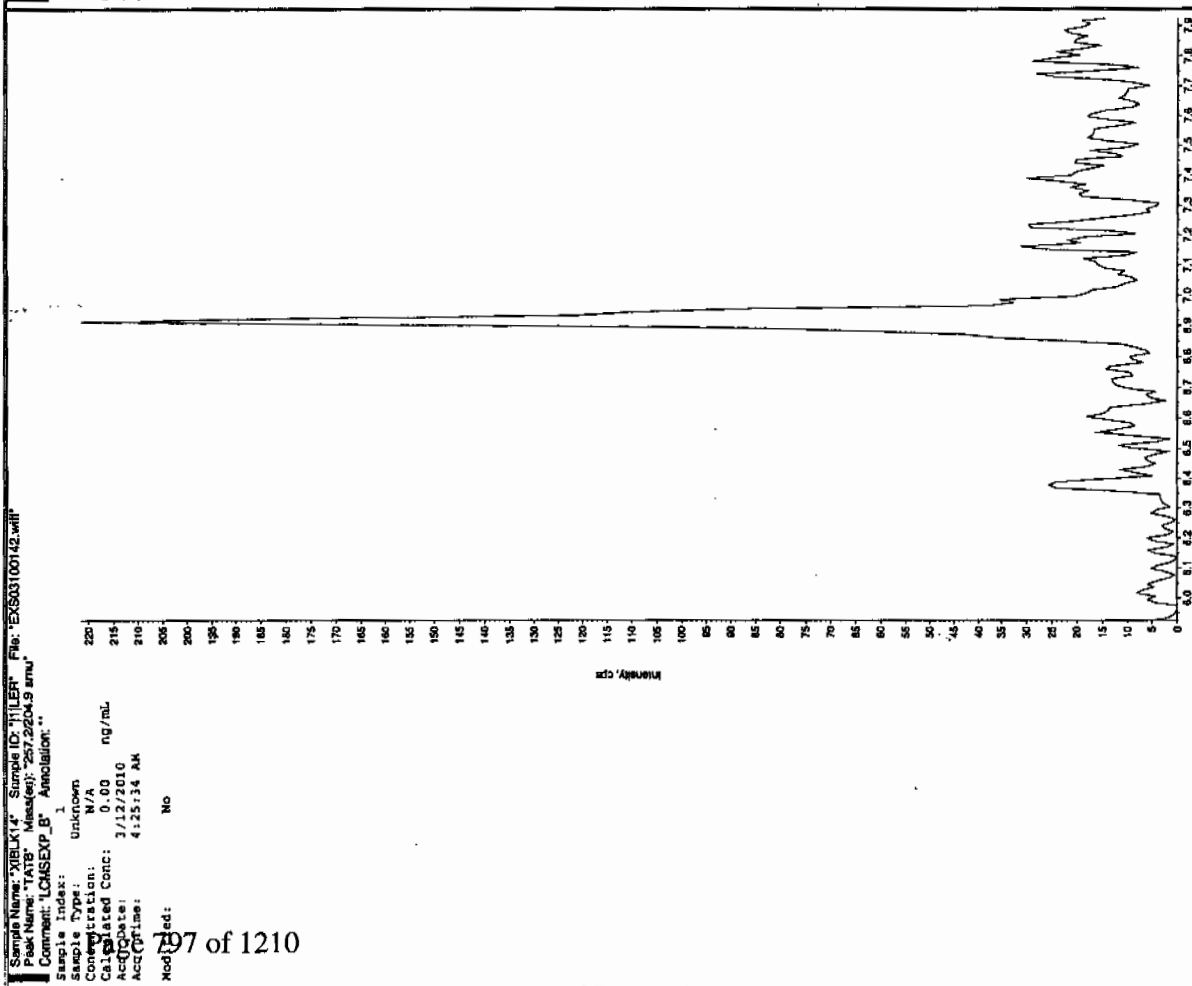
GEL Data File: EXS03100142.wiff

Instrument ID: LCMSMS

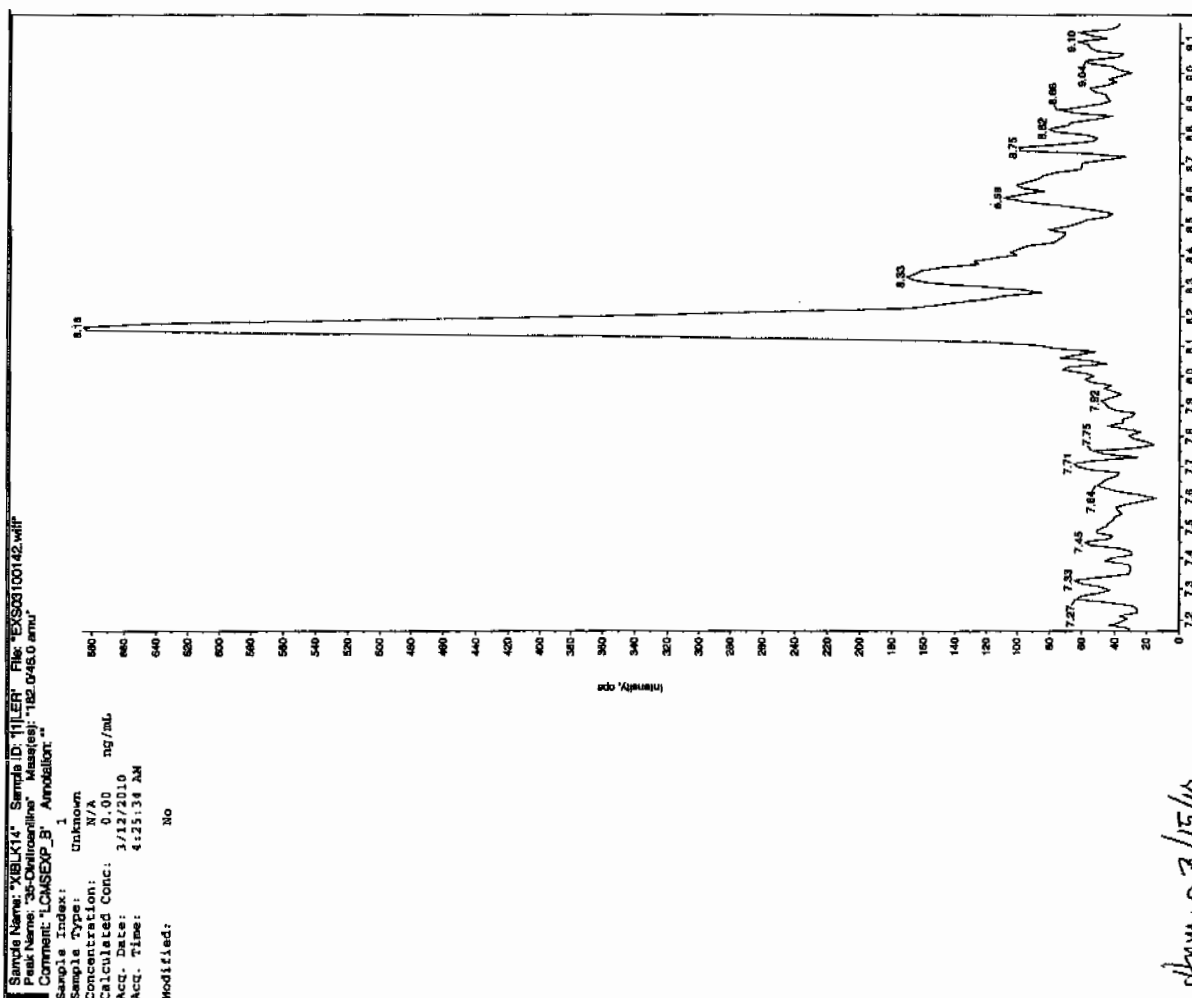
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.975
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/14/10

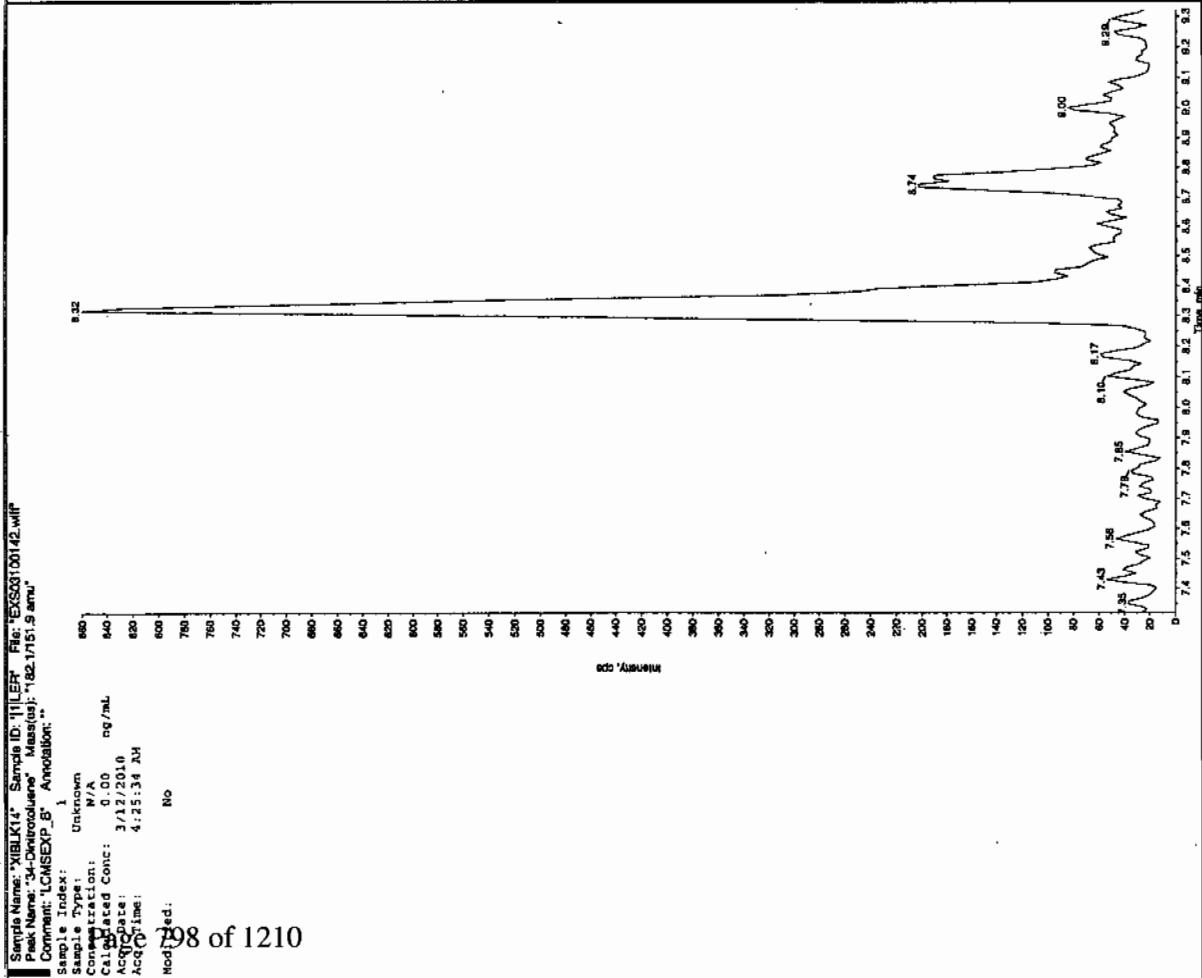
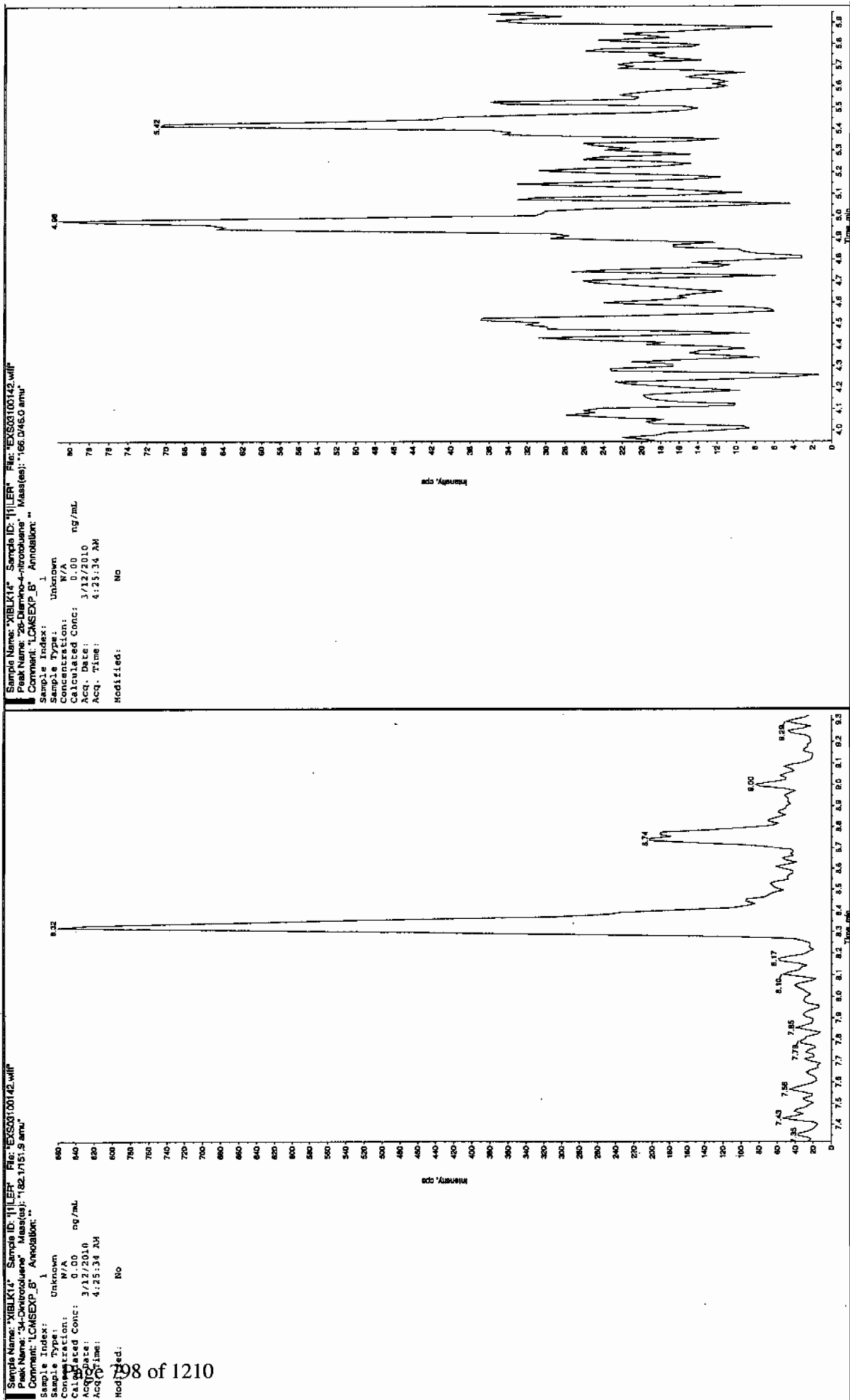


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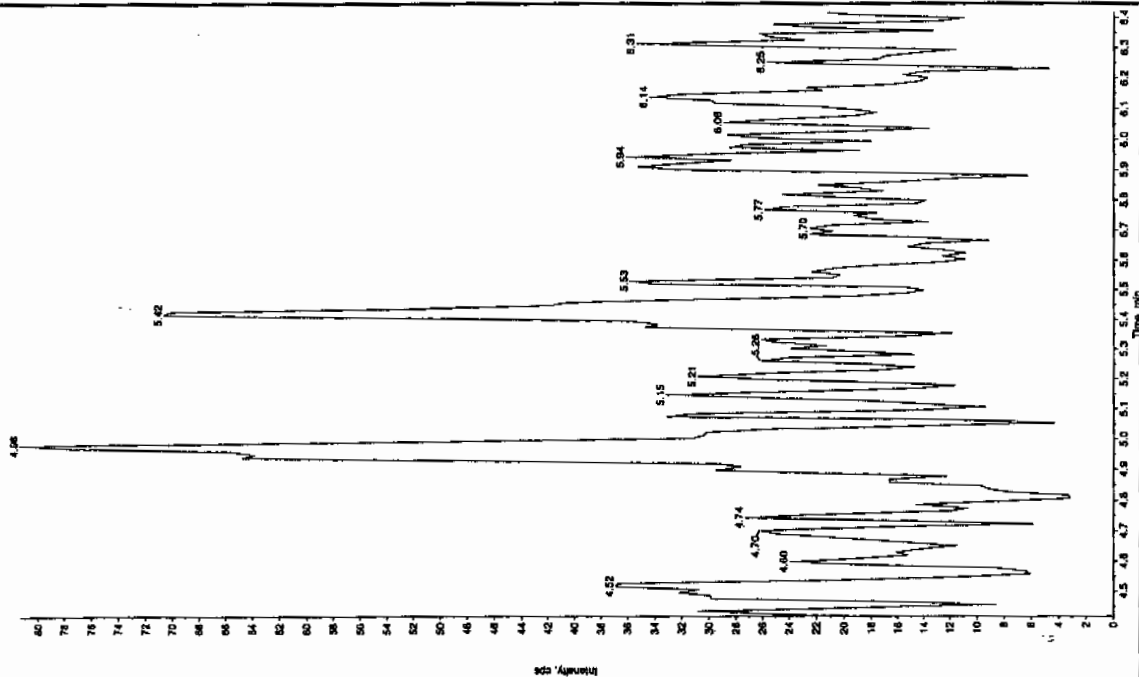
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Ann 03/15/10



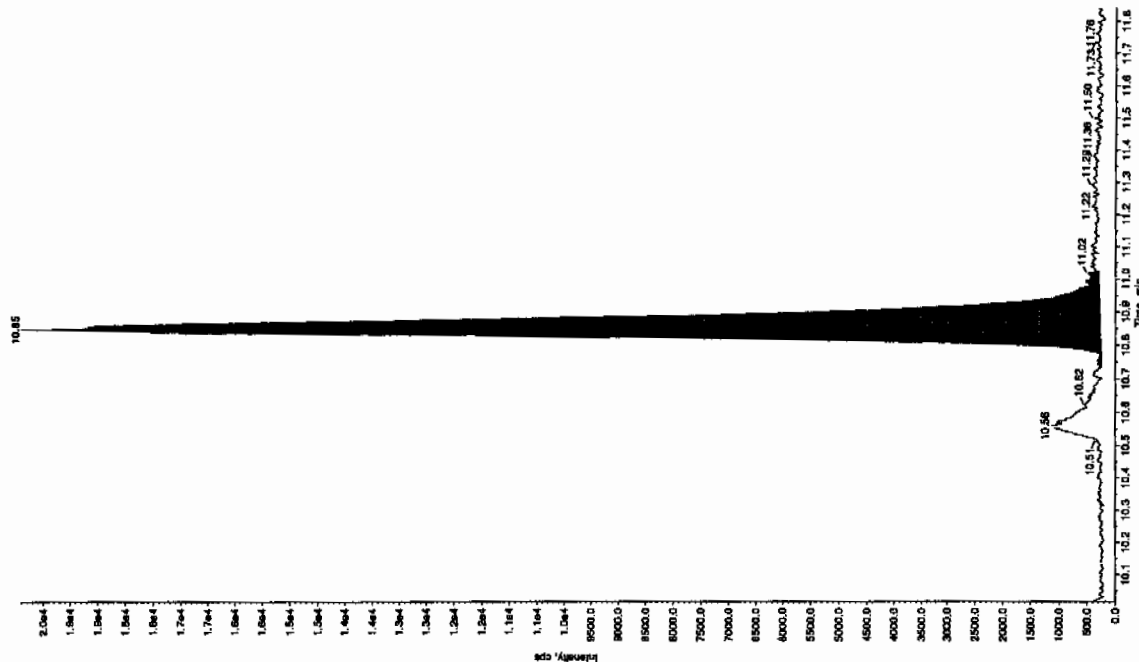
Sample Name: "XELK14" Sample ID: "1111ER" File: "EXS3100142.wif"
 Peak Name: "24-Diamino-6-phenylurea" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 4:25:34 AM
 Mod. Date: No



Sample Name: "XELK14" Sample ID: "1111ER" File: "EXS3100142.wif"
 Peak Name: "bis(o-cresyl) phosphine" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.975 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 4:25:34 AM
 Mod. Date: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 Peak Width: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 7.80e+004 counts
 Height: 19655.729 cps
 Start Time: 10.7 min
 End Time: 11.0 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1905

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 12-MAR-10 07:50

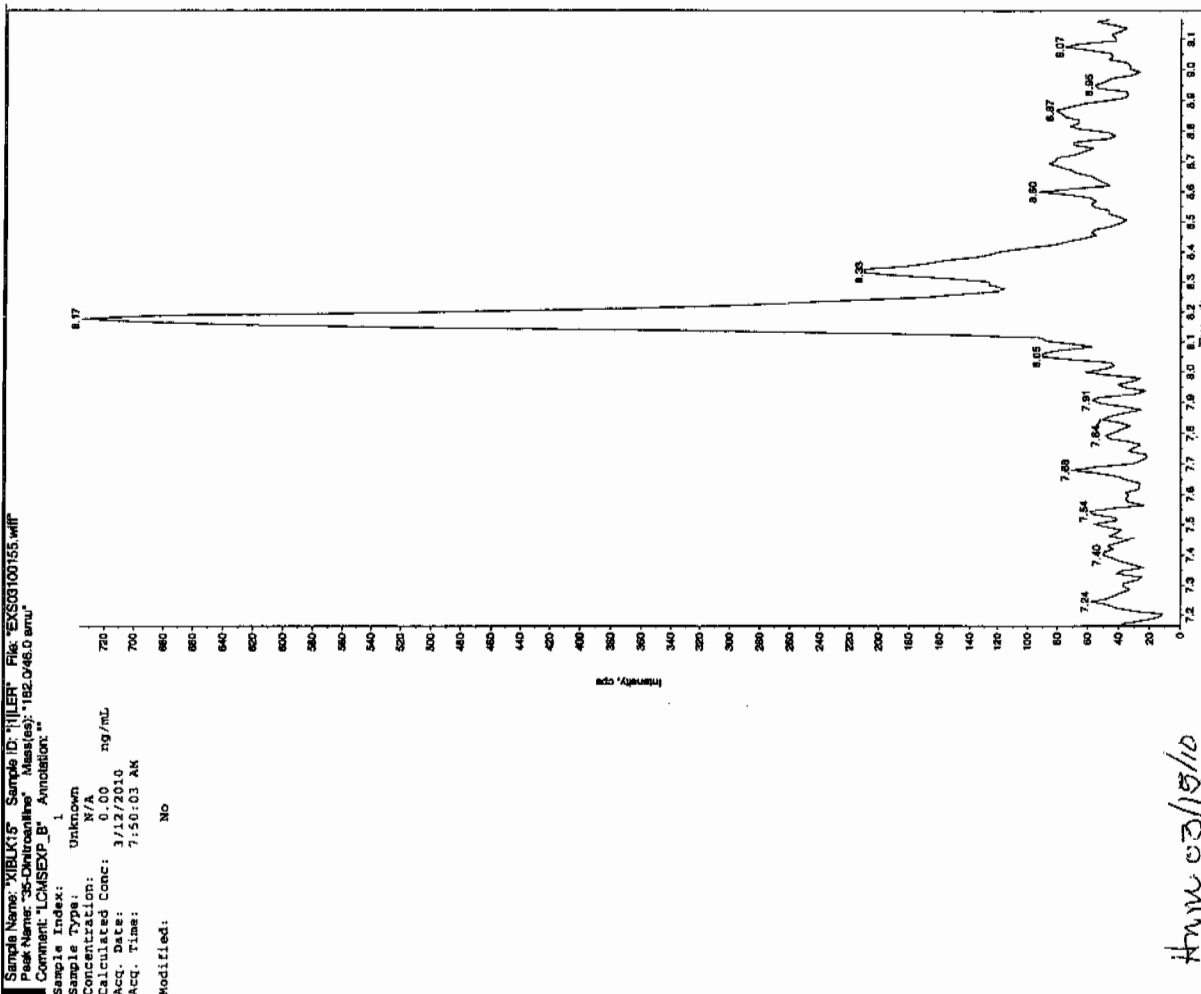
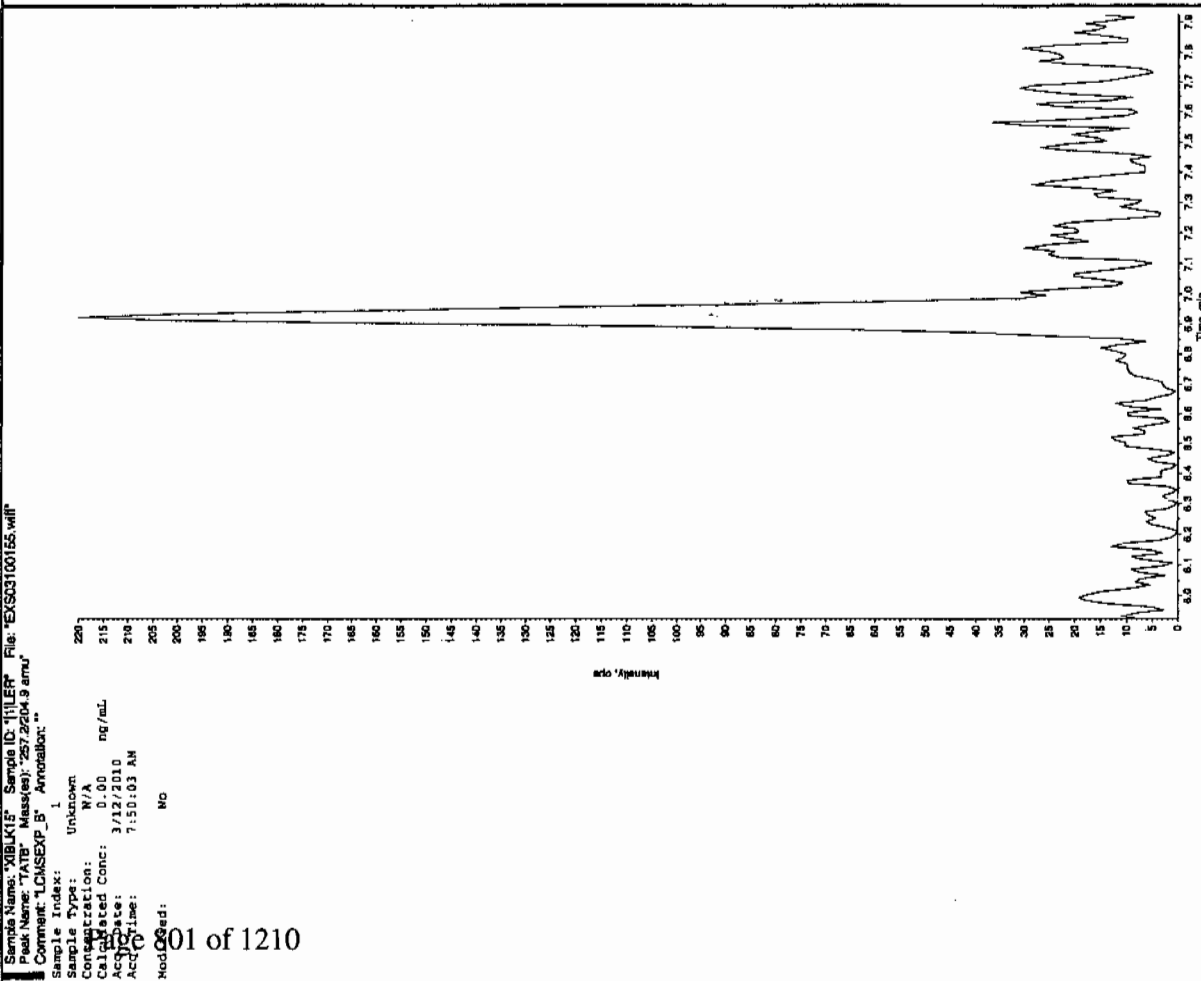
GEL Data File: EXS03100155.wiff

Instrument ID: LCMSMS

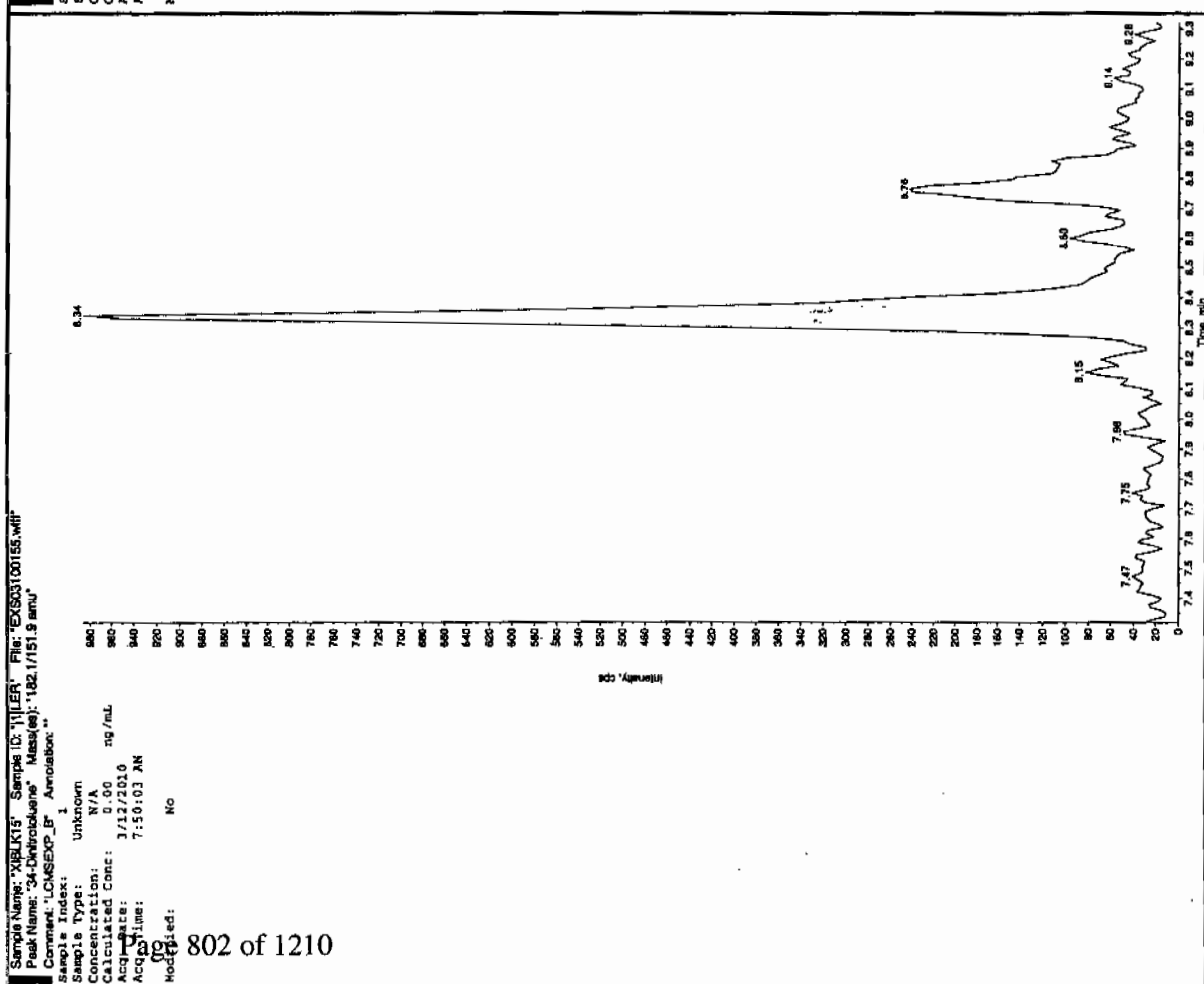
Column: Phenomenex Ultracarb 5u ODS(20)

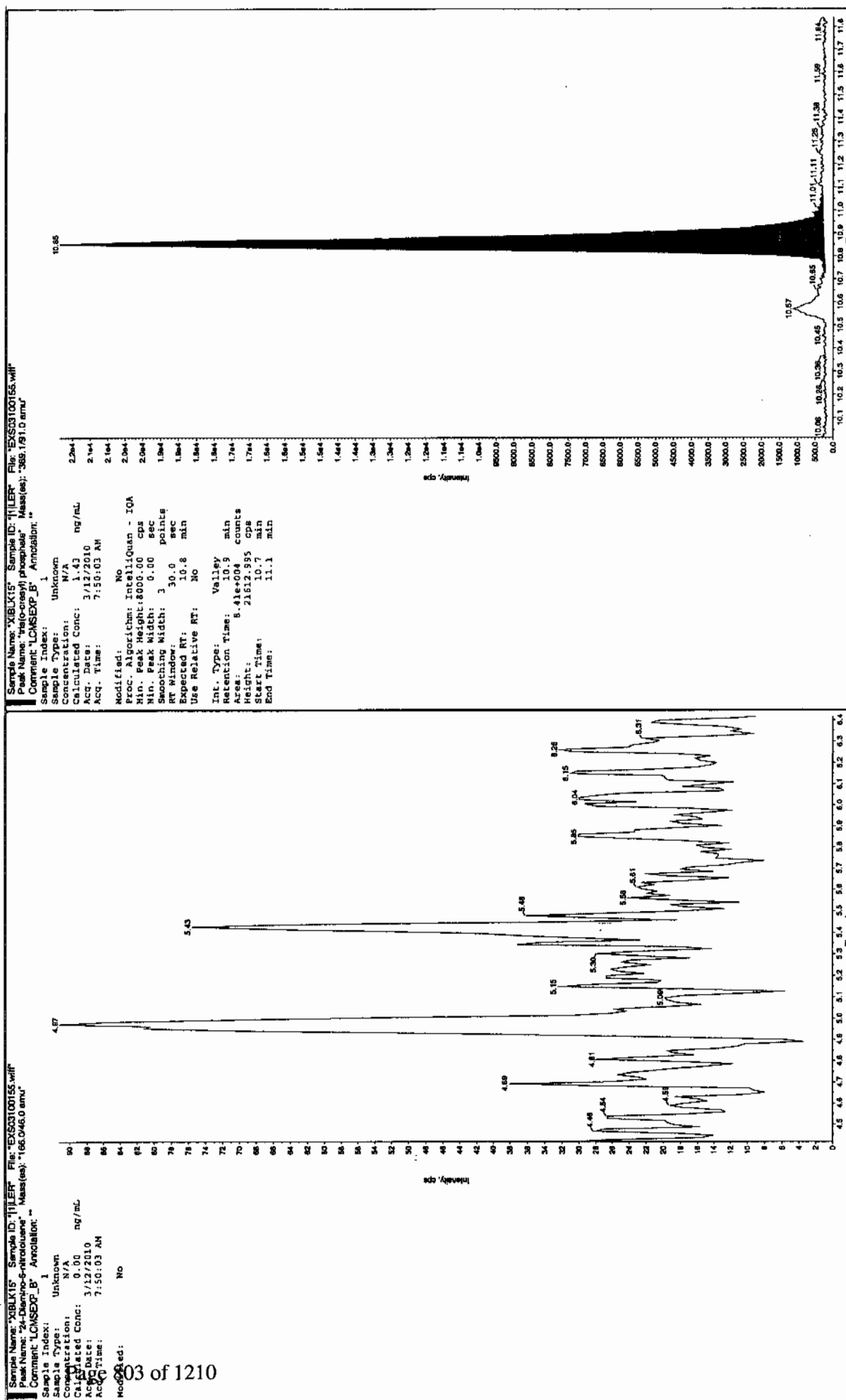
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.43
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3/14/10



Run 03/15/10





Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H2O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

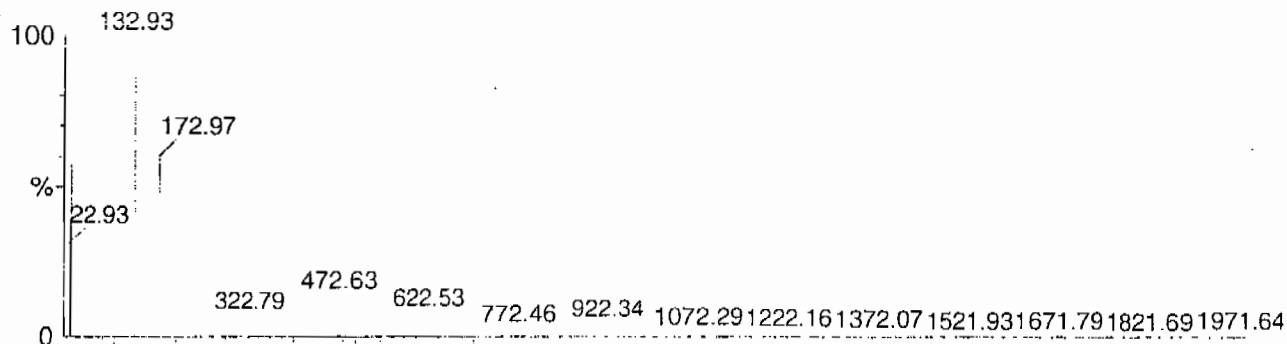
Calibration Report - MS1 Static

Page 1 of 1

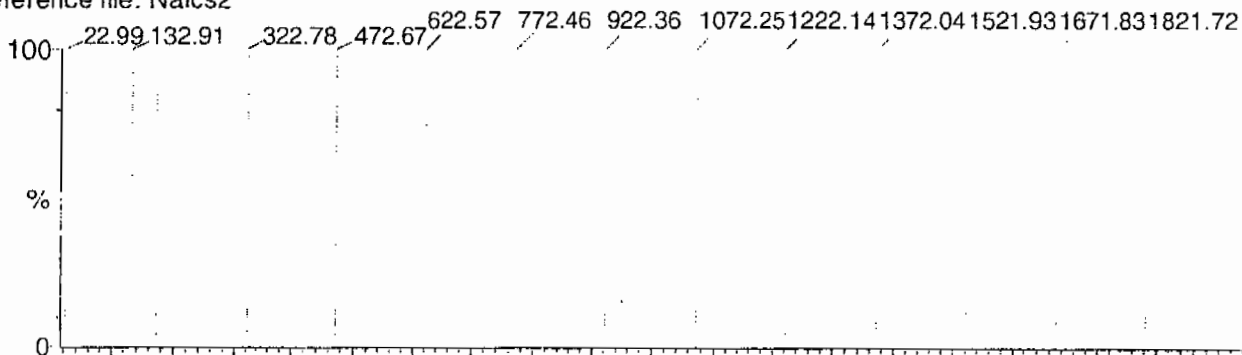
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

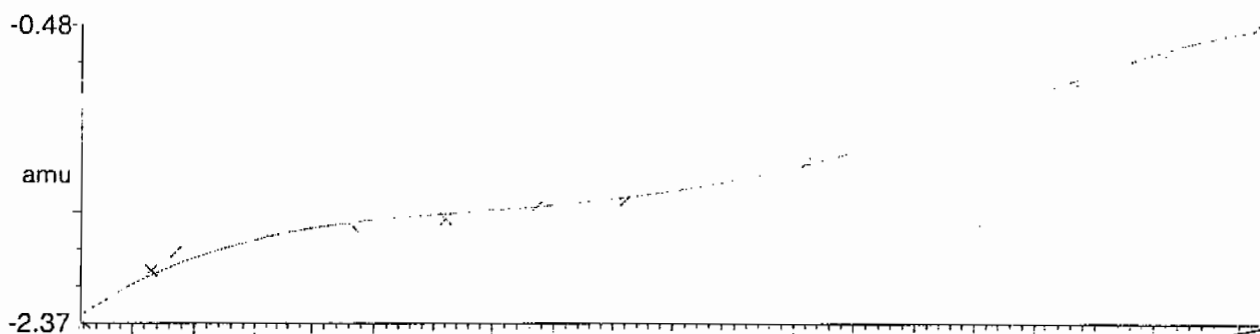
15 matches of 15 tested references



Reference file: Naics2

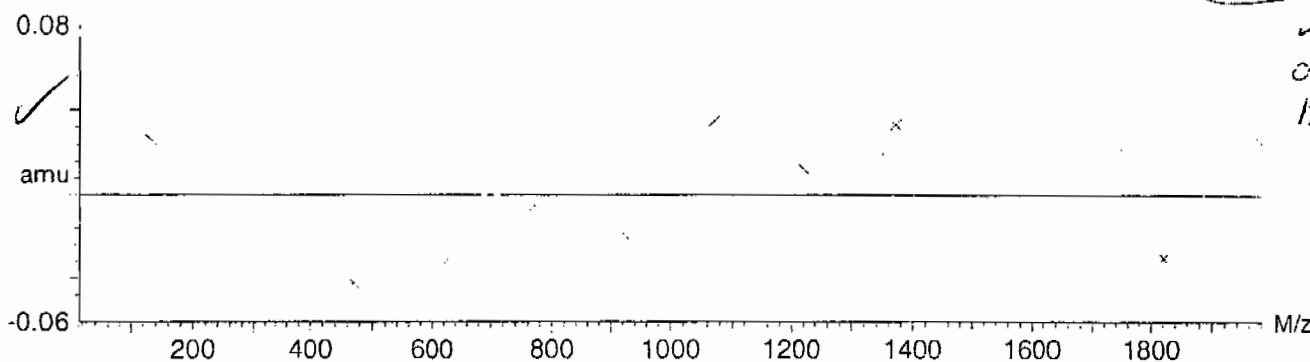


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



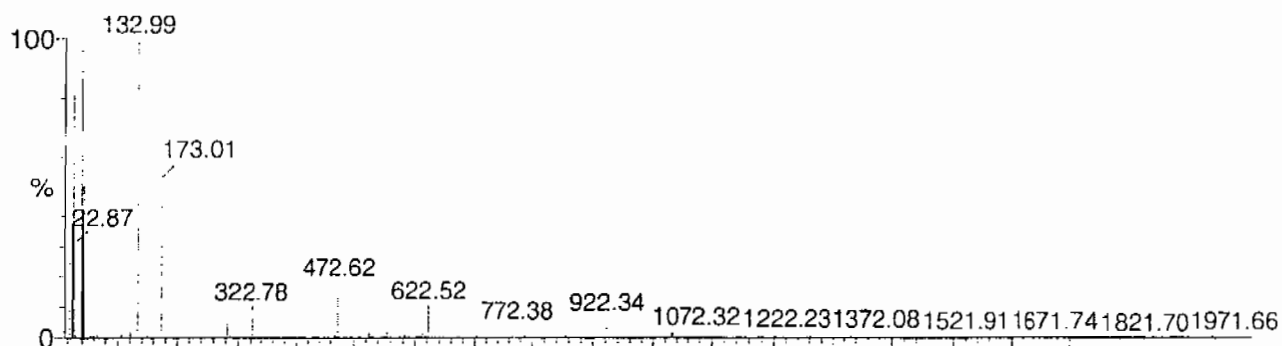
Calibration Report - MS1 Scanning

Page 1 of 1

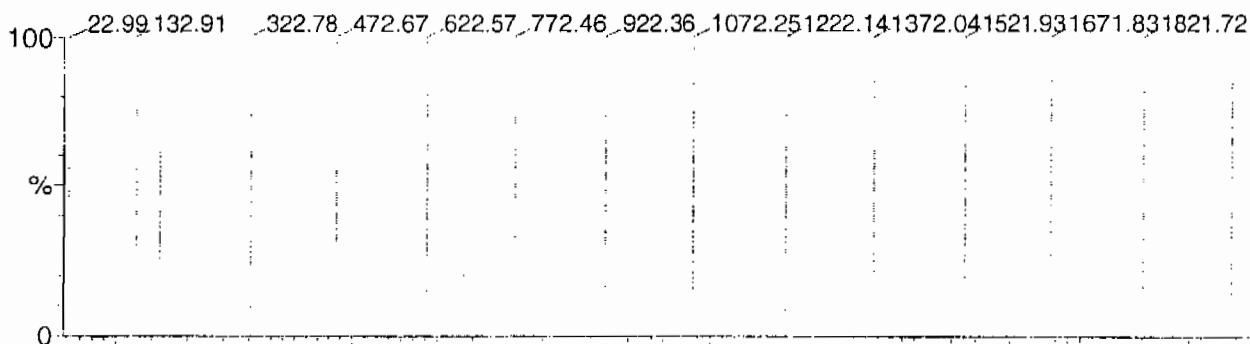
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

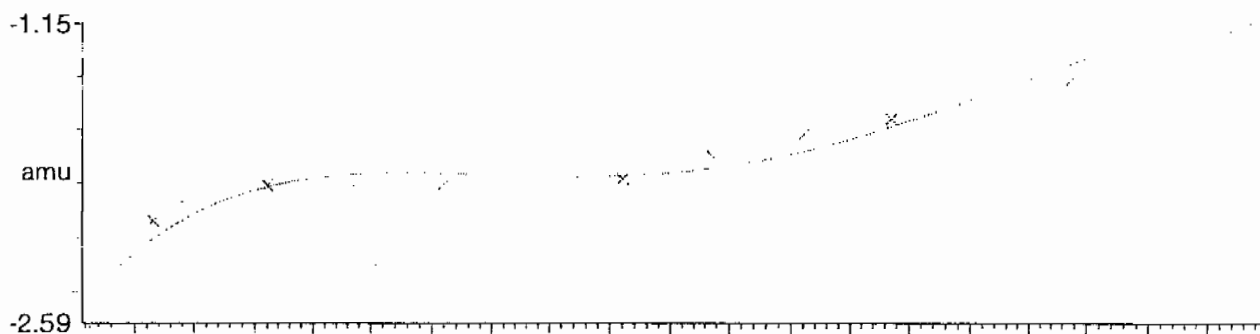
15 matches of 15 tested references



Reference file: Naics2

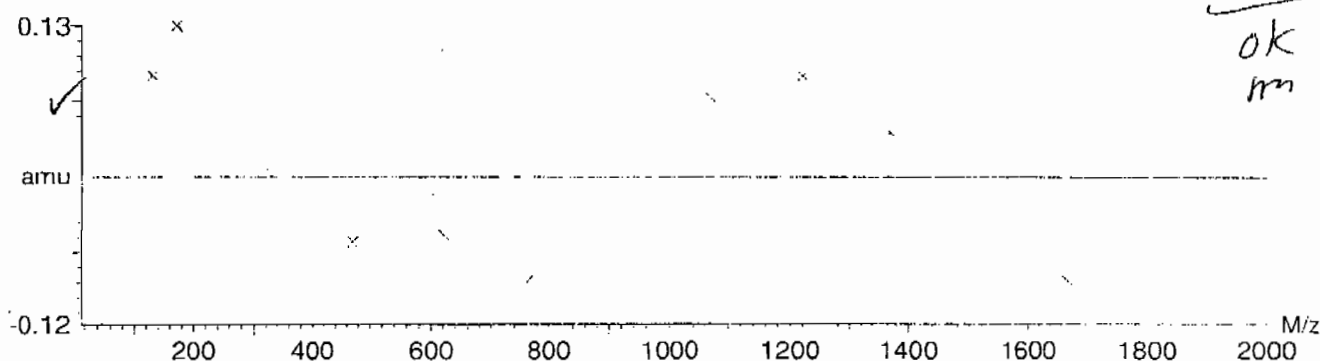


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



ok
m

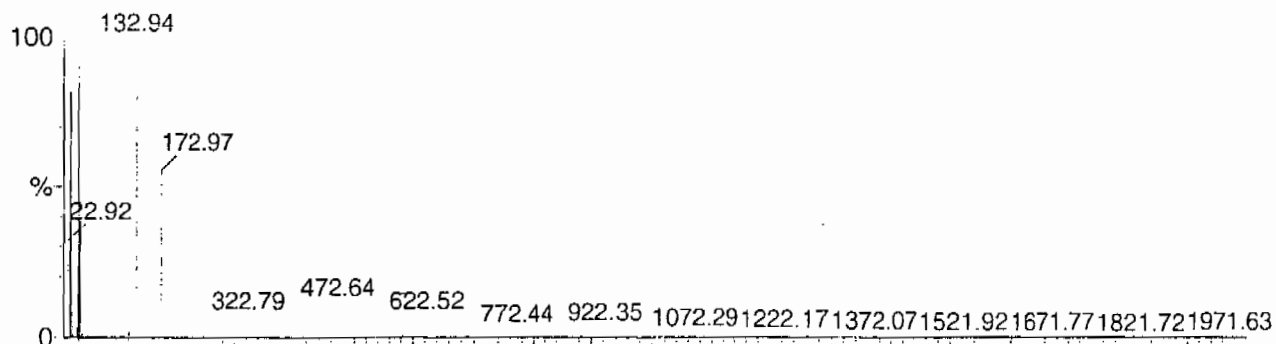
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

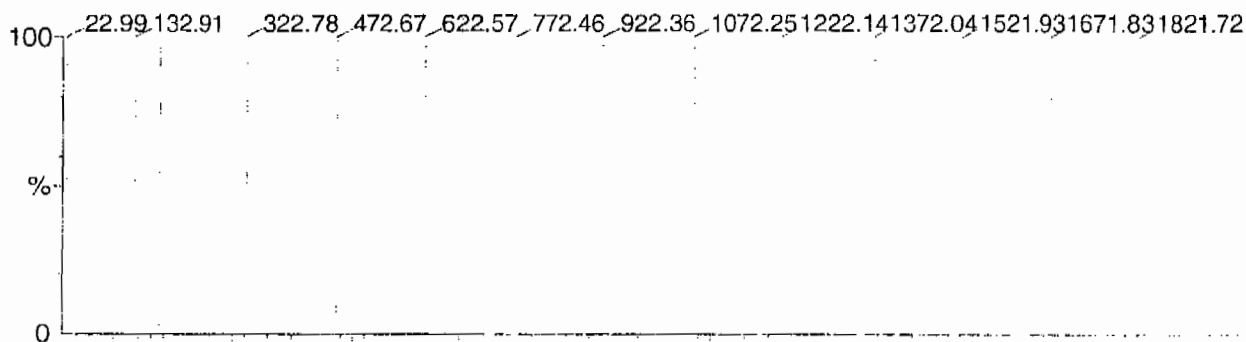
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

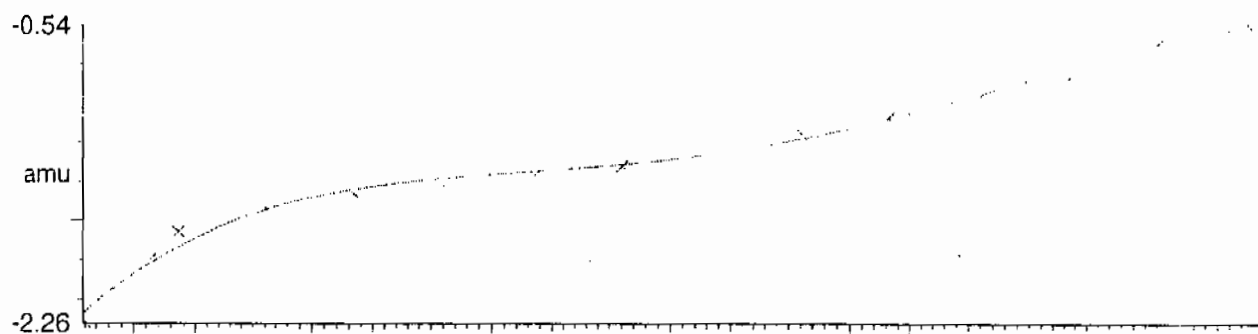
15 matches of 15 tested references



Reference file: Naics2

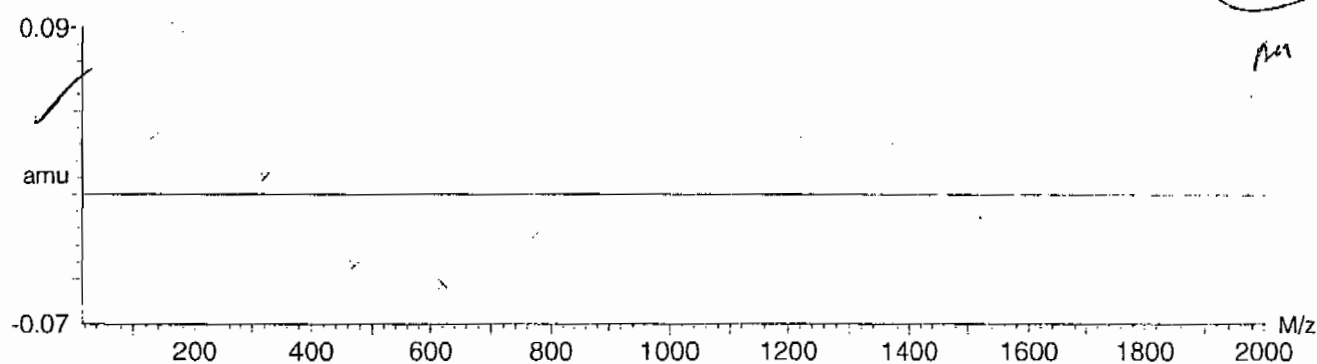


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$



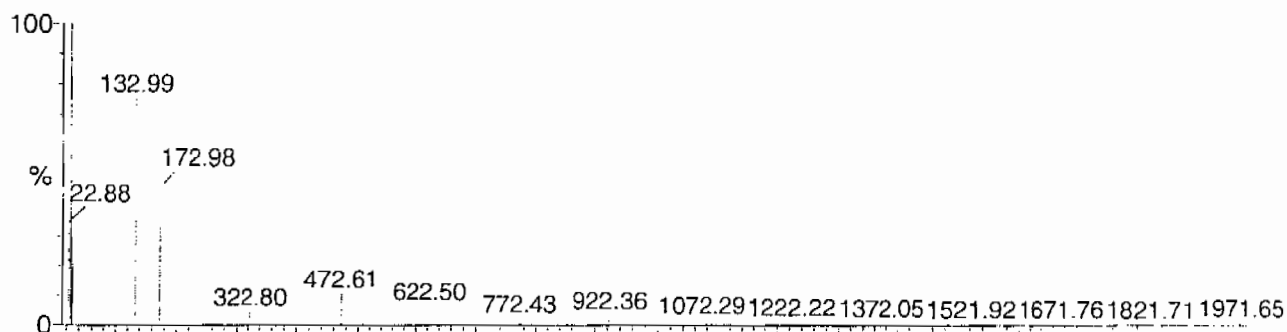
Calibration Report - MS2 Static

Page 1 of 1

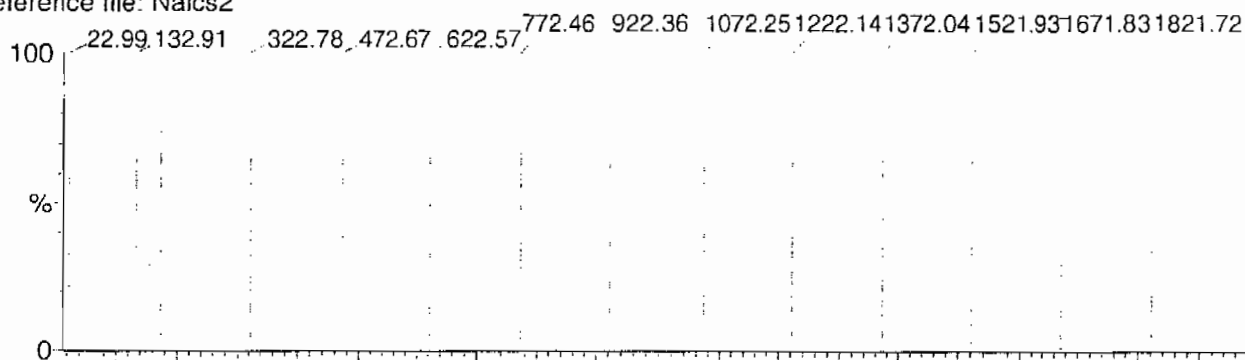
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

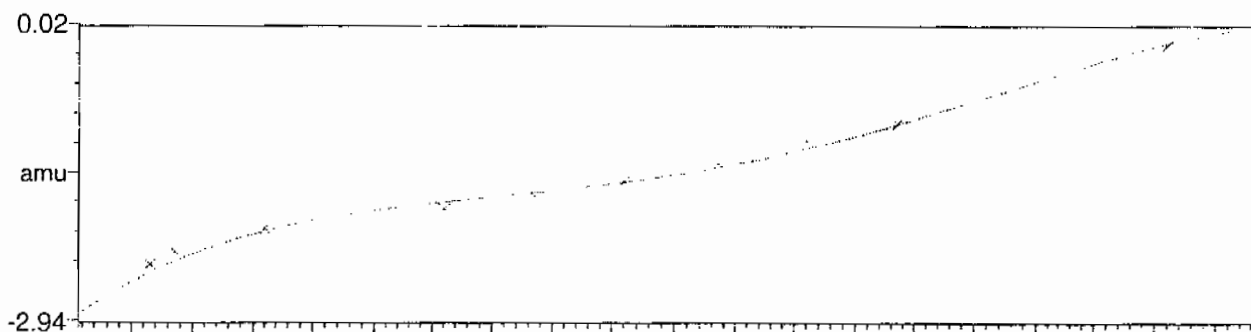
15 matches of 15 tested references



Reference file: Naics2

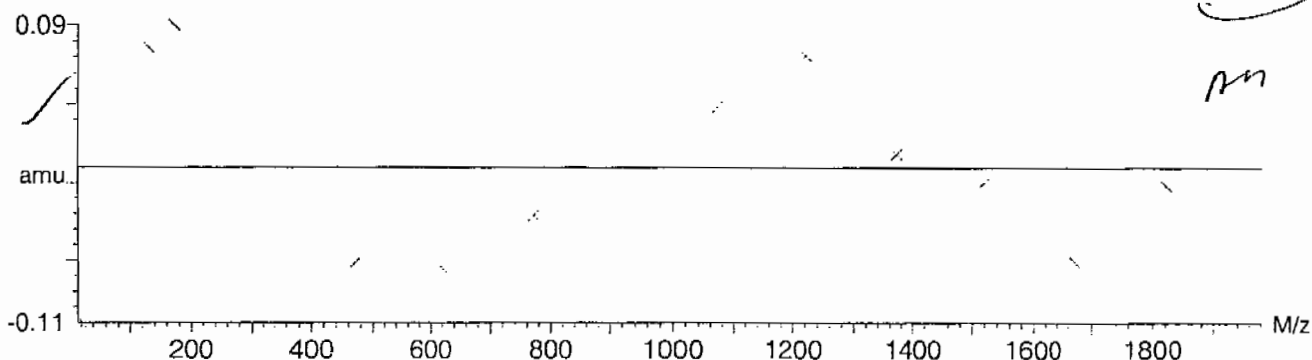


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



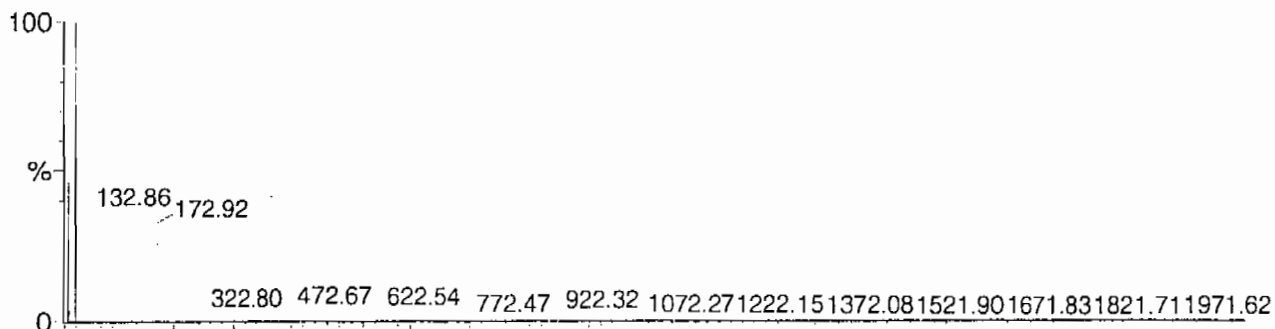
Calibration Report - MS2 Scanning

Page 1 of 1

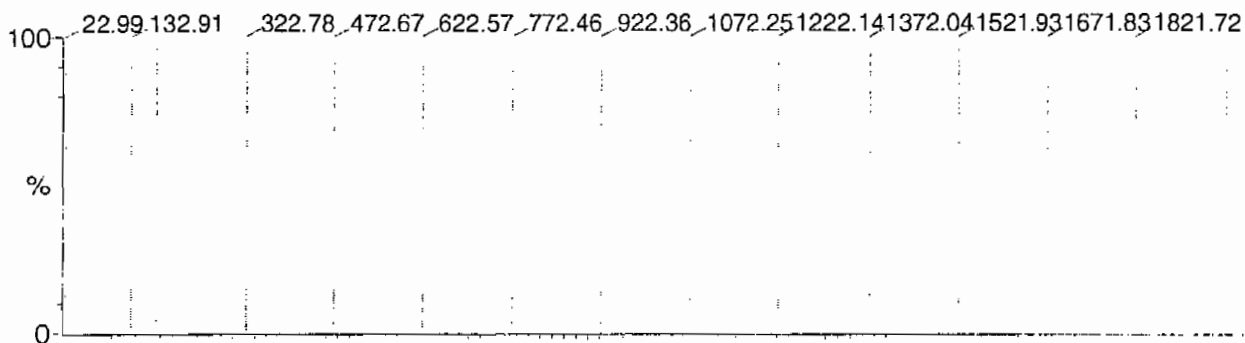
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

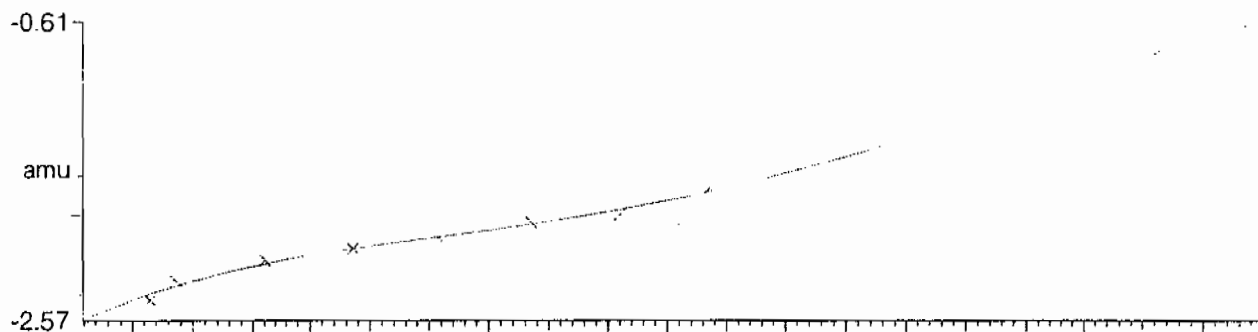
14 matches of 15 tested references



Reference file: Naics2

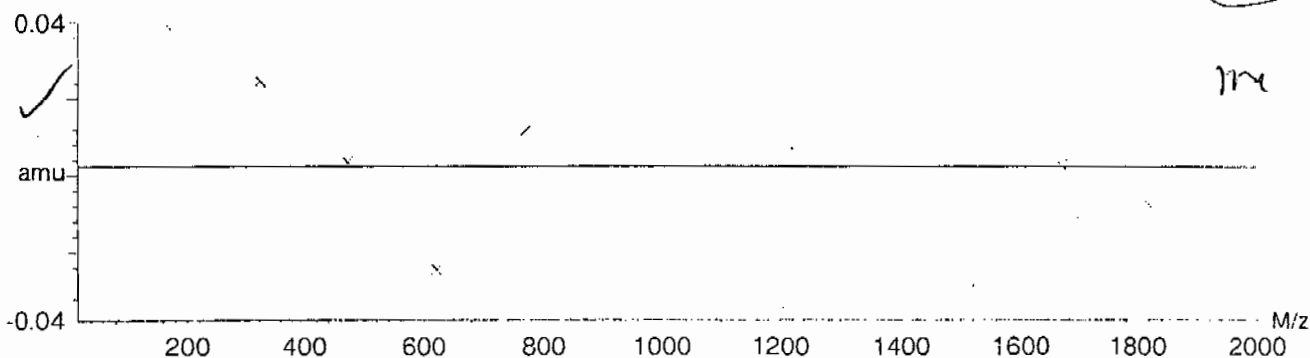


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$



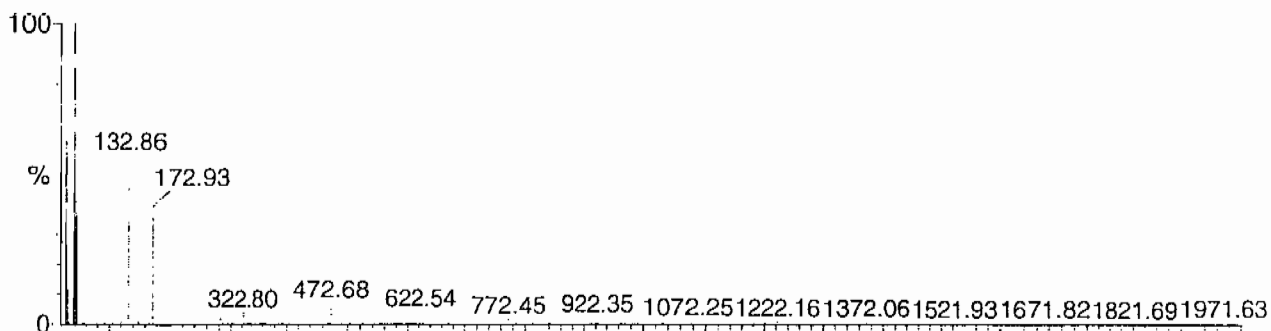
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

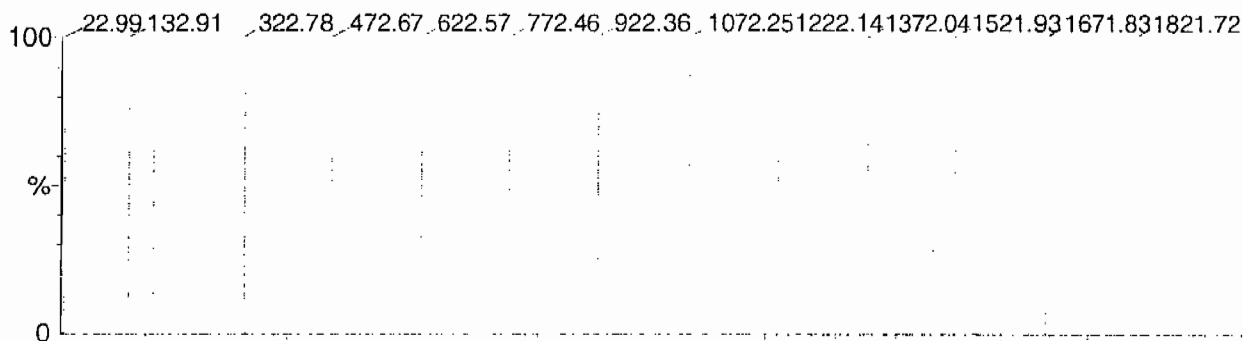
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

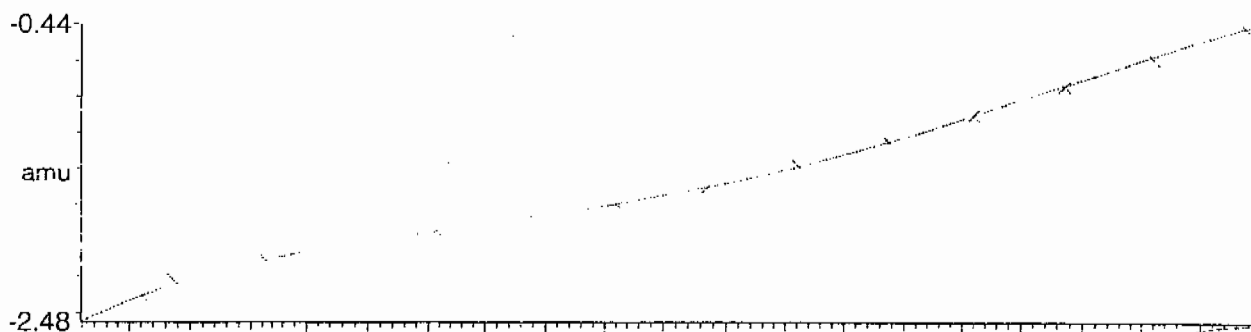
14 matches of 15 tested references



Reference file: Naics2

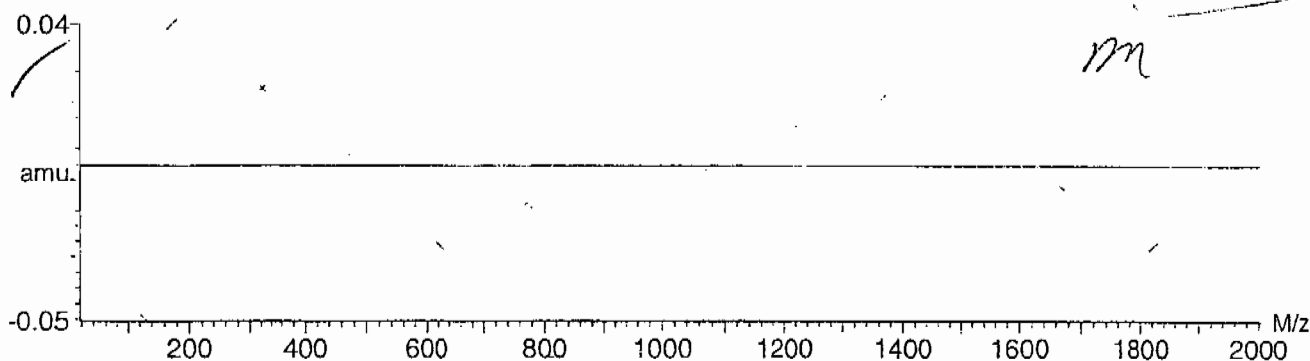


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$

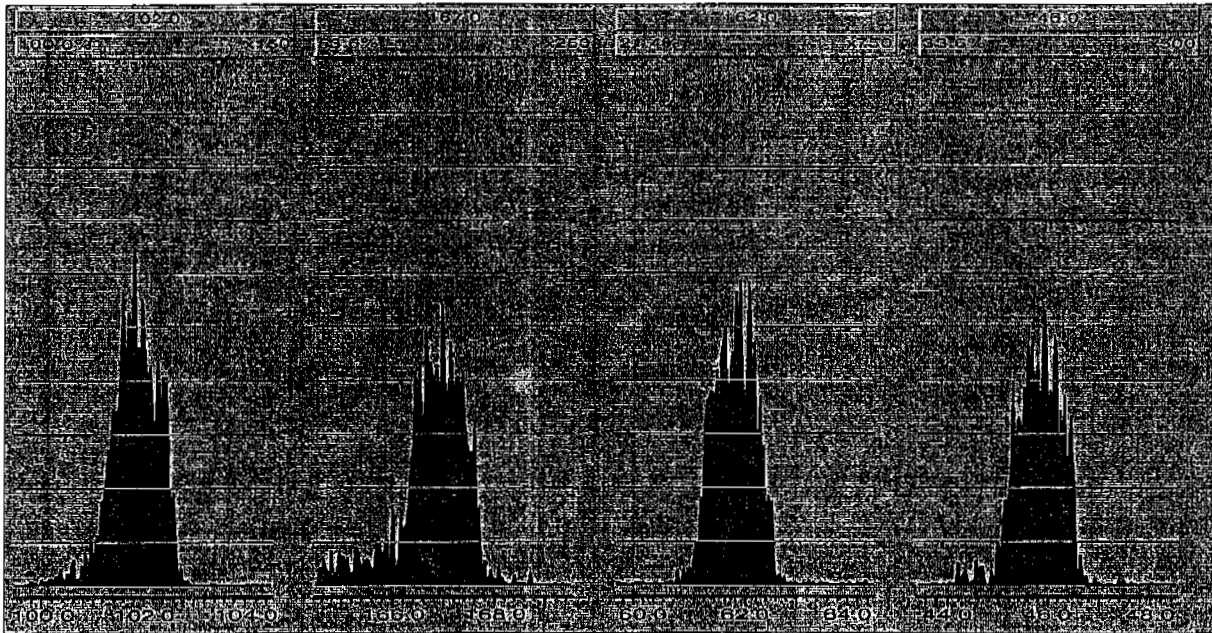


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PROVACQUDB\explosives04.IPR

Printed : Mon Apr 12 14:40:37 2010



8

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Instrument ID: LCMSMS

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			5880.363	11.868	34983.183	17.054
Upper Limit			7644.4719	12.368	45478.1379	17.554
Lower Limit			4116.2541	11.368	24488.2281	16.554
MB for batch 955062	12-apr-10 21:34	EXP0412013a	6169.82	11.92	37873.2	17.094
LCS for batch 955062	12-apr-10 22:04	EXP0412014a	6567.72	11.867	40283.7	17.05
RE15-10-8346	12-apr-10 22:33	EXP0412015a	6811.47	11.868	40177.9	17.05
RE15-10-8346(247332002MS)	12-apr-10 23:02	EXP0412016a	7713.56 *	11.867	39347.7	17.05
RE15-10-8346(247332002MSD)	12-apr-10 23:32	EXP0412017a	6640.89	11.867	46478.8 *	17.072
RE15-10-8347	13-apr-10 00:01	EXP0412018a	6090.63	11.867	35176.5	17.072
RE15-10-8344	13-apr-10 00:31	EXP0412019a	5811.7	11.865	35513.2	17.061
RE15-10-8345	13-apr-10 01:00	EXP0412020a	6011.91	11.867	33892.7	17.05
RE15-10-8342	13-apr-10 01:30	EXP0412021a	5972.64	11.865	35508	17.061
RE15-10-8343	13-apr-10 01:59	EXP0412022a	5917.09	11.868	34004.9	17.05
RE15-10-8377	13-apr-10 03:57	EXP0412026a	5948.07	11.868	35571.1	17.05

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d3

Area Upper Limit = + 30% of average IS area from multipoint calibration

Area Lower Limit = - 30% of average IS area from multipoint calibration

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332002

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412015a

Date Analyzed: 12-APR-10 22:33

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412015a

Date: 12-Apr-2010

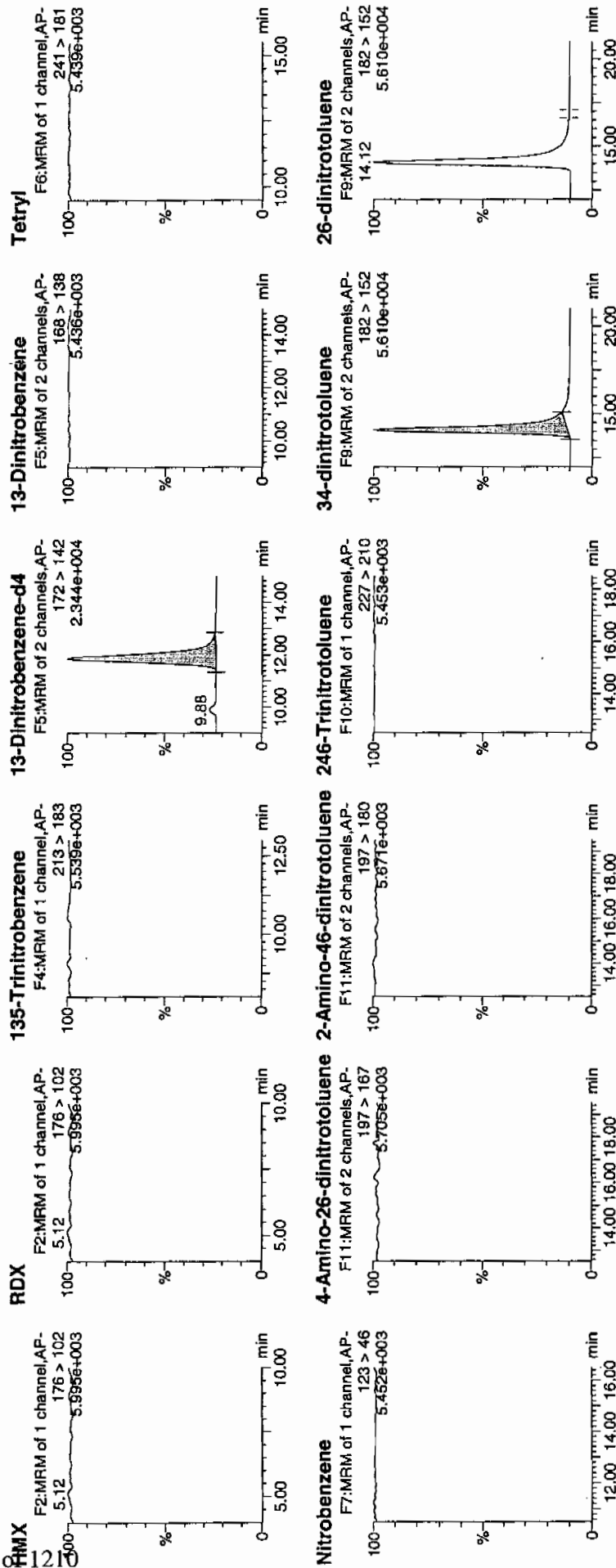
Time: 22:33:29

ID: 247332002

Anal: 2:1,C

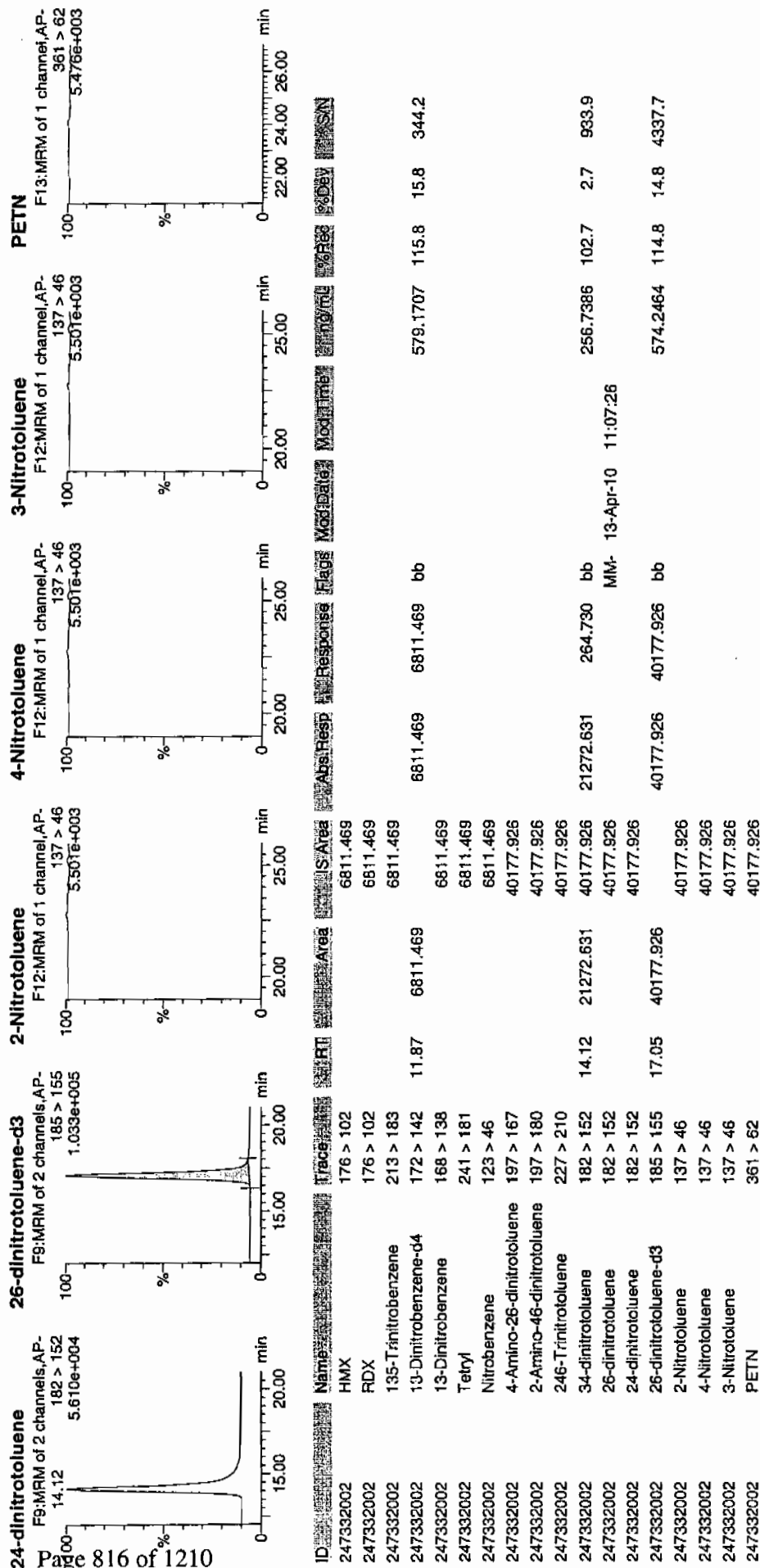
1077
4/13/10

LAJ/955063/8033/21



4/13/10

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332002

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100133.wiff

Date Analyzed: 12-MAR-10 02:04

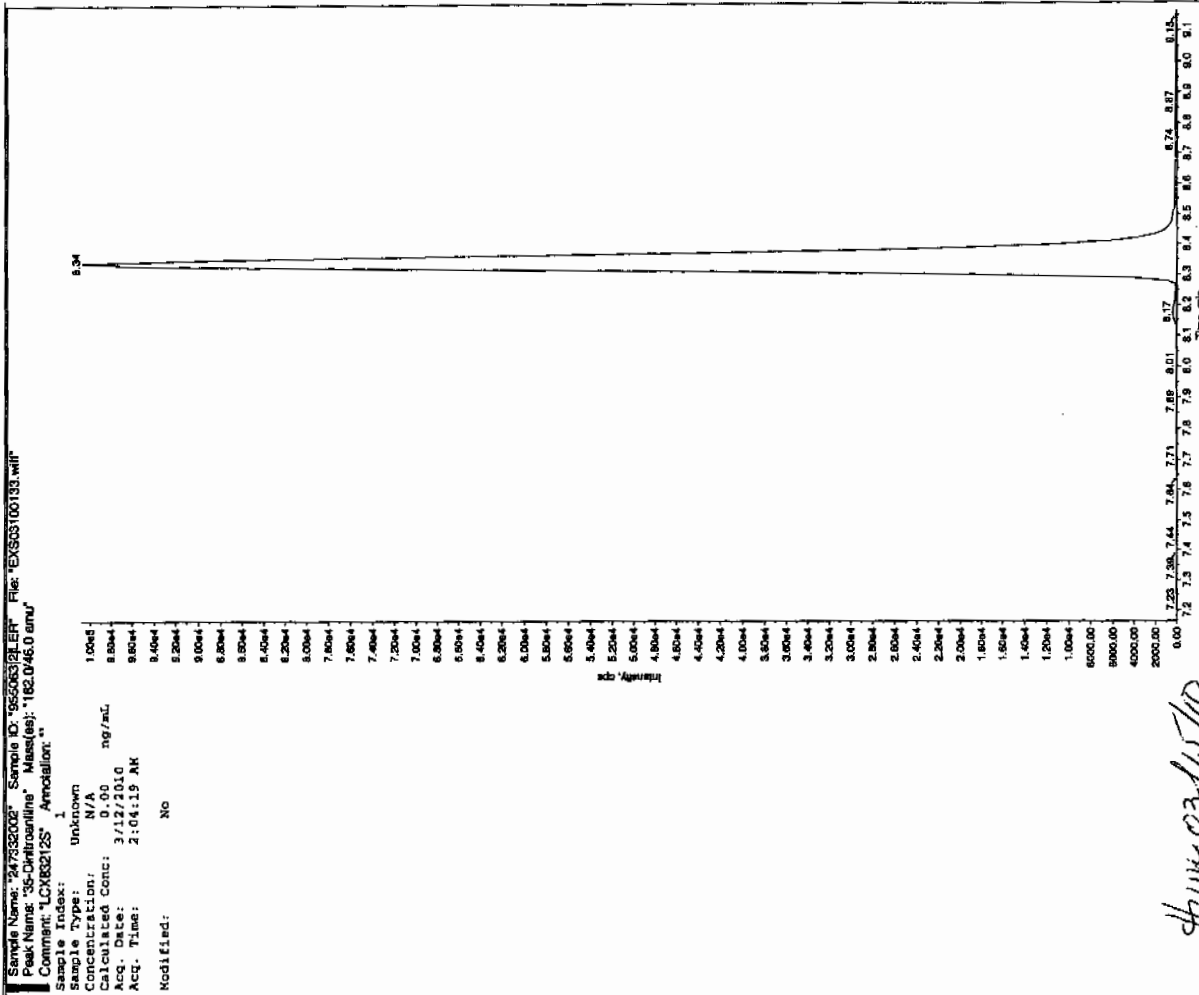
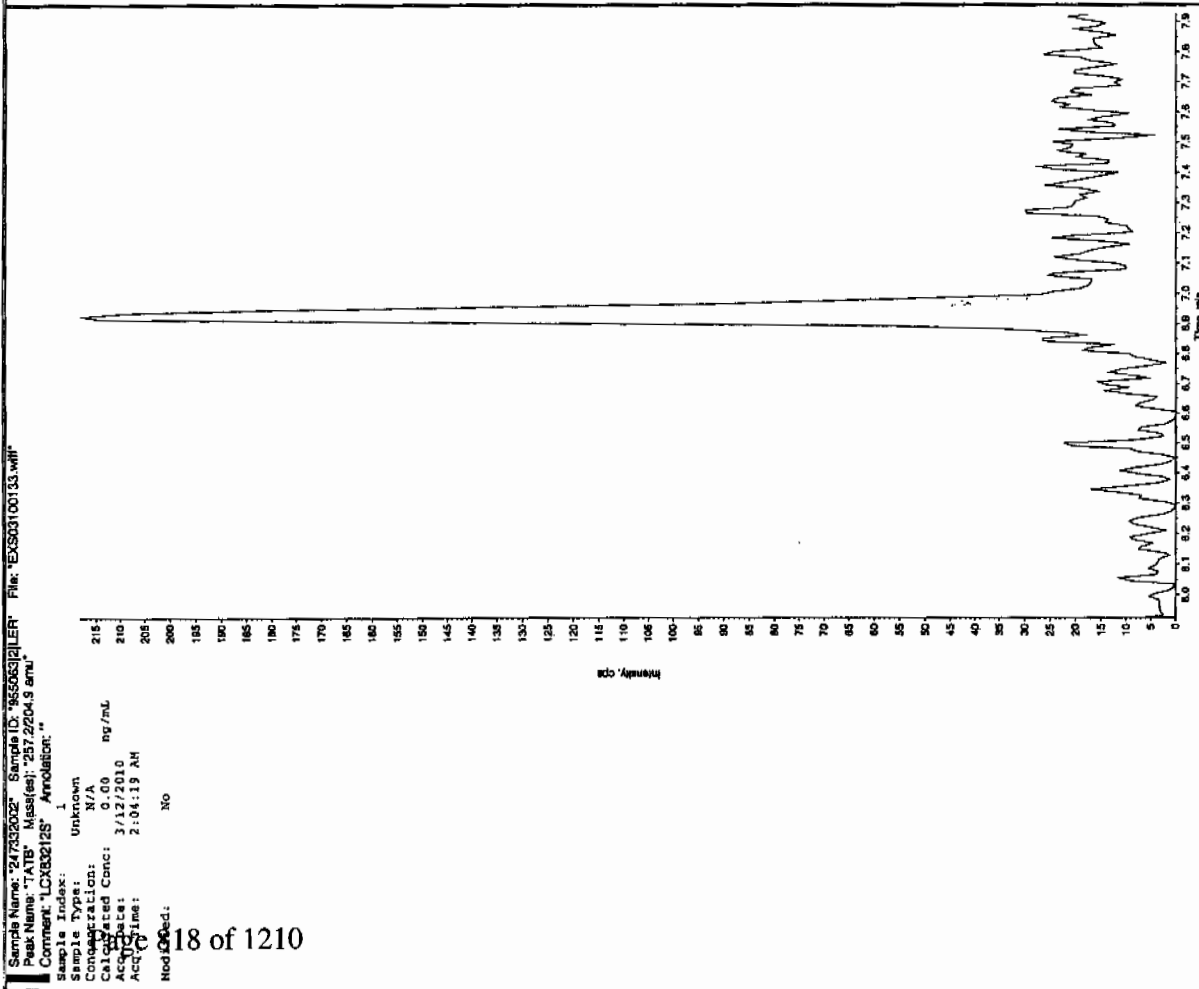
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

LC# 3114110



LC# 3114110

Sample Name: "27332002" Sample ID: "555063121ER" File: "EX503100133.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	3/12/2010
Acq. Time:	2:04:19 AM
Modified:	No

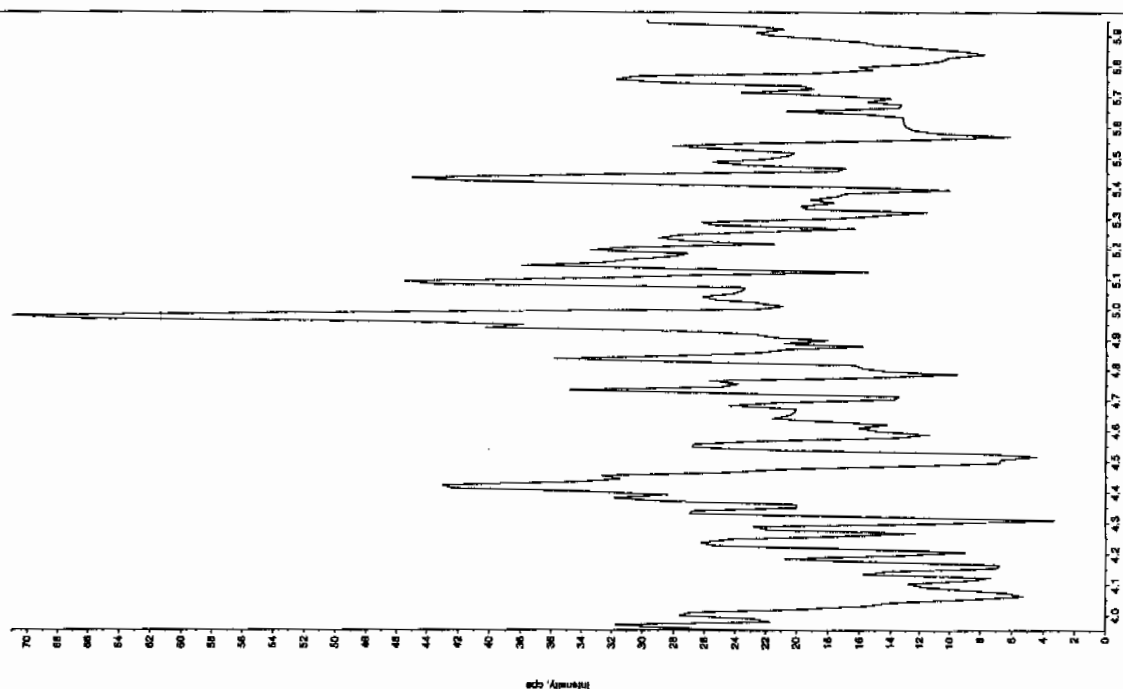
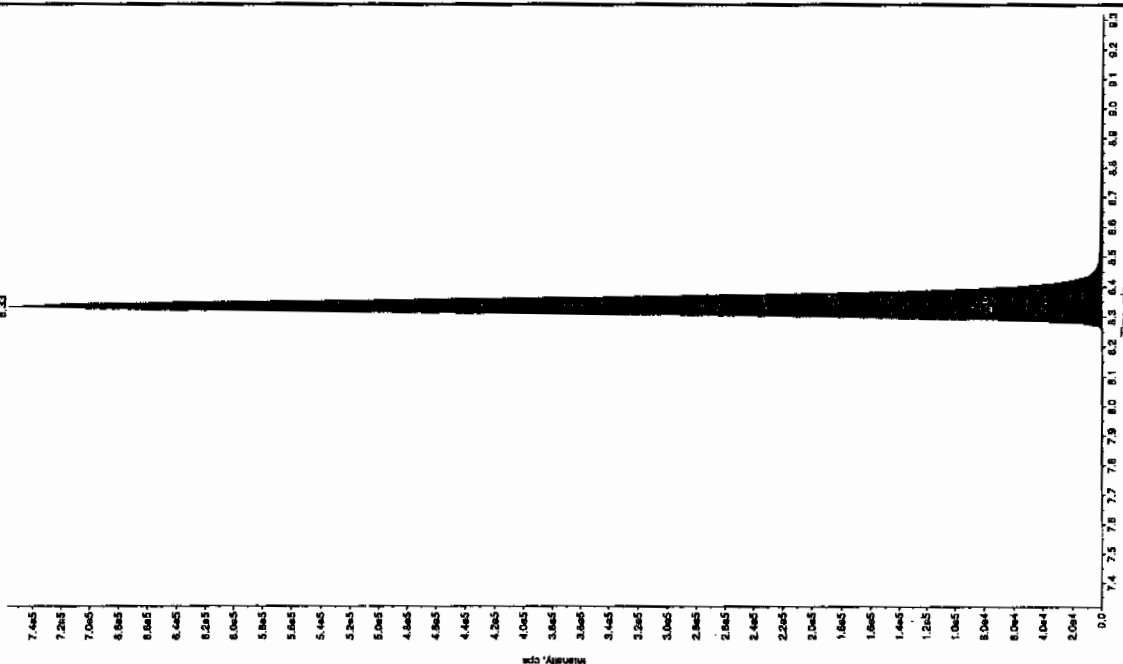
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 281. ng/mL
Acq. Date: 3/12/2010
Acq. Time: 2:04:19 AM

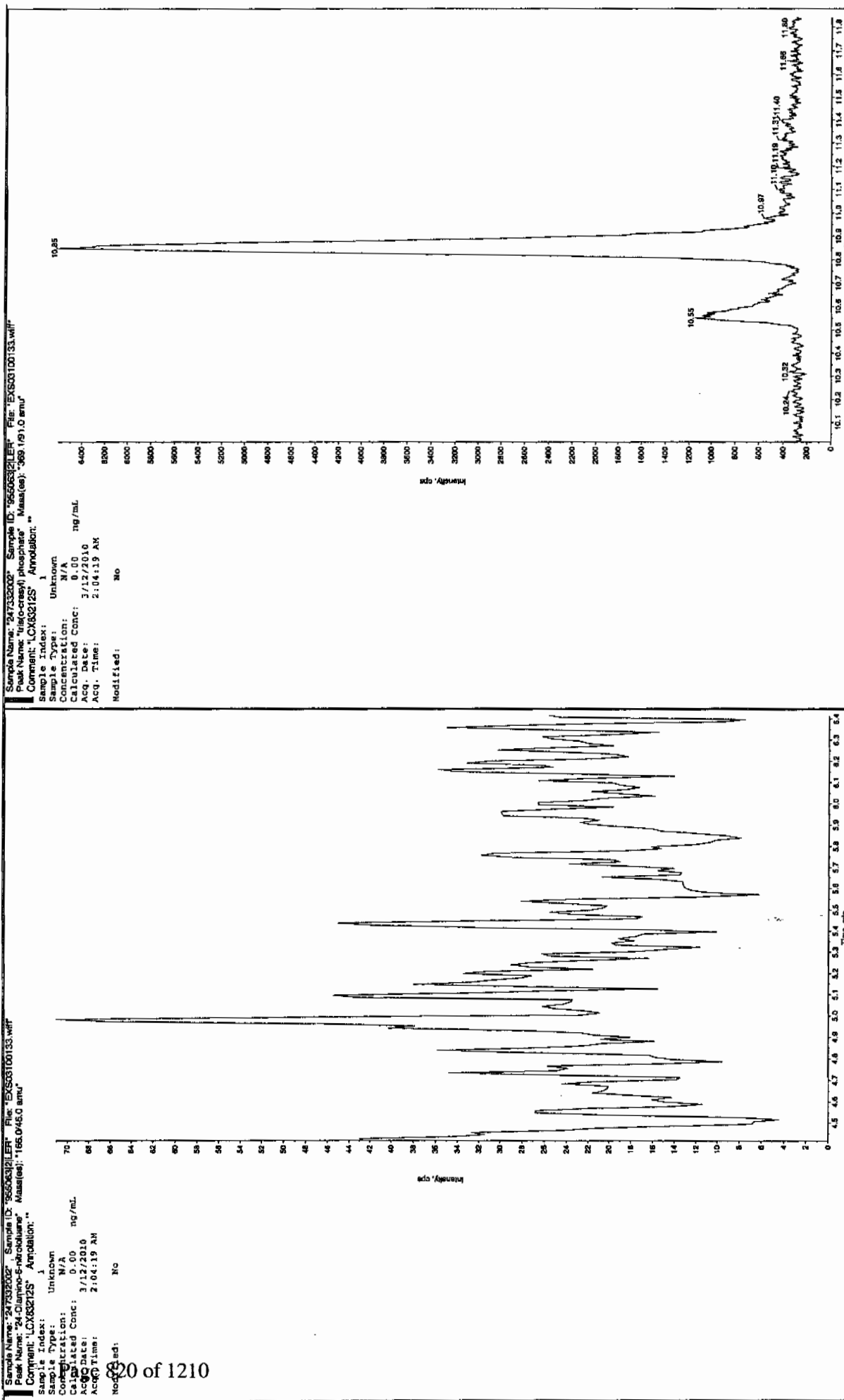
```

Modelled:      NO
Proc: Algorithm: IntelliQuan - IQA
Min Peak Height: 1450.00 cps
Min Peak Width: 1.00 sec
Min Peak Width: 1.00 sec
Smoothing Width: 15.0 points
RT RT Window: 3.0 min
Expected RT: 8.32 min
Use Relative RT: No

Int. Type: Valley
Integration Time: 8.33 min
Count: 2.82e+06 counts
Area: 7.57366e+27 cps
Height: 8.24 min
Start Time: 8.24 min
End Time: 8.64 min

```





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8347

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332003

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412018a

Date Analyzed: 13-APR-10 00:01

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412018a

Date: 13-Apr-2010

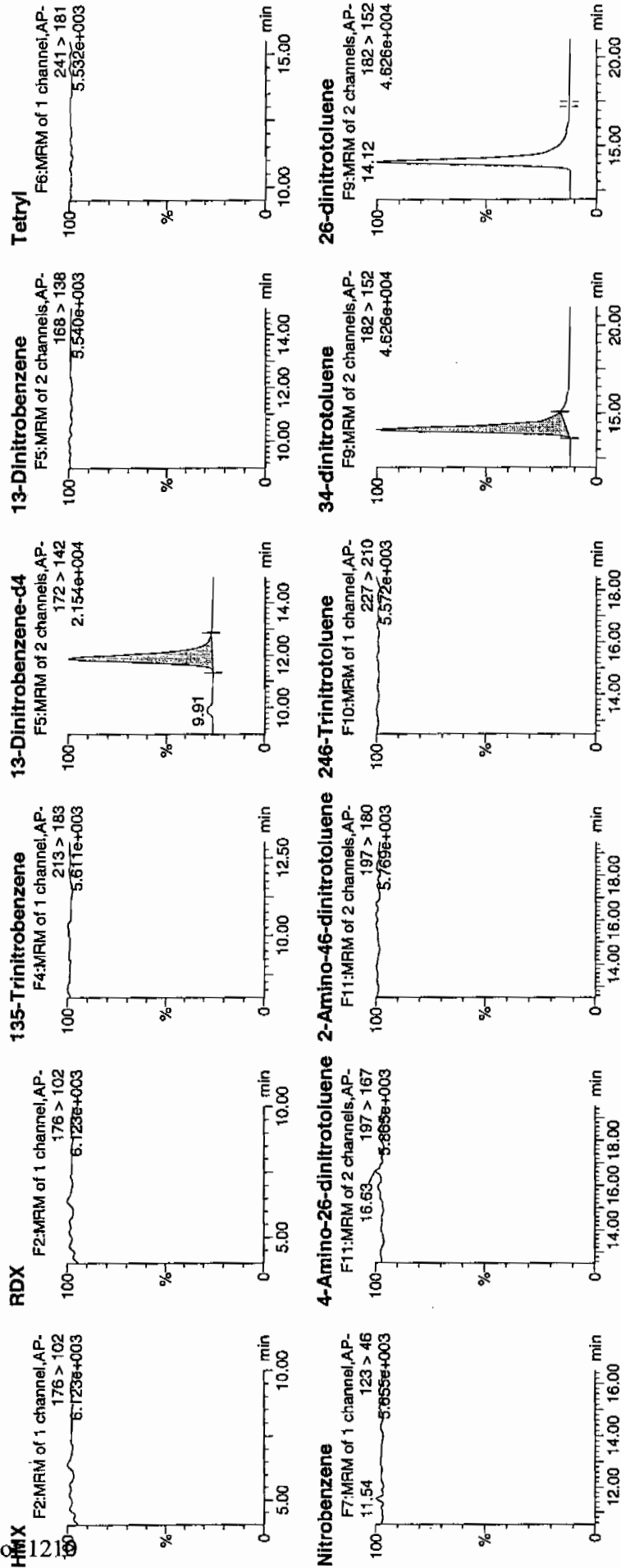
Time: 00:01:52

ID: 247332003

Vial: 2:1,F

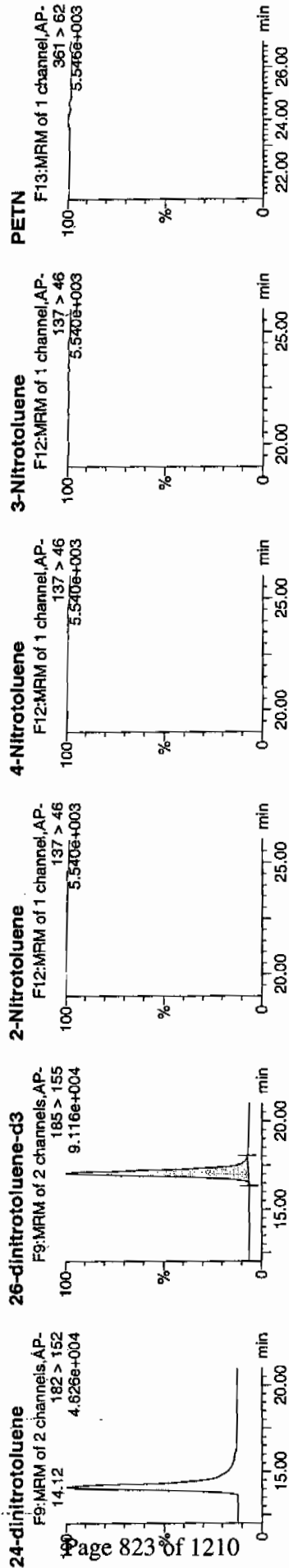
not
4/13/10

WAL-95063 / 8022 / 21



4/13/10

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	S:Area	Abs:Resp	Response	Flags	Mod Date	Mod Time	24-Dec	30-Dec	31-Dec
247332003	HMZ	176 > 102			6090.627								
247332003	RDX	176 > 102			6090.627								
247332003	135-Trinitrobenzene	213 > 183			6090.627								
247332003	13-Dinitrobenzene-d4	172 > 142	11.87	6090.627			6090.627	bb			517.8784	103.6	593.1
247332003	13-Dinitrobenzene	168 > 138			6090.627								
247332003	Tetryl	241 > 181			6090.627								
247332003	Nitrobenzene	123 > 46			6090.627								
247332003	4-Amino-26-dinitrotoluene	197 > 167			35176.520								
247332003	2-Amino-46-dinitrotoluene	197 > 180			35176.520								
247332003	246-Trinitrotoluene	227 > 210			35176.520								
247332003	34-dinitrotoluene	182 > 152	14.12	17334.871	35176.520	17334.871	246.398	bb	MM-	13-Apr-10	11:07:44	238.9600	95.5
247332003	26-dinitrotoluene	182 > 152			35176.520								
247332003	24-dinitrotoluene	182 > 152			35176.520								
247332003	26-dinitrotoluene-d3	185 > 155	17.07	35176.520		35176.520	35176.520	bb				502.7633	100.6
247332003	2-Nitrotoluene	137 > 46			35176.520								
247332003	4-Nitrotoluene	137 > 46			35176.520								
247332003	3-Nitrotoluene	137 > 46			35176.520								
247332003	PETN	361 > 62			35176.520								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8347

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332003

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100136.wiff

Date Analyzed: 12-MAR-10 02:51

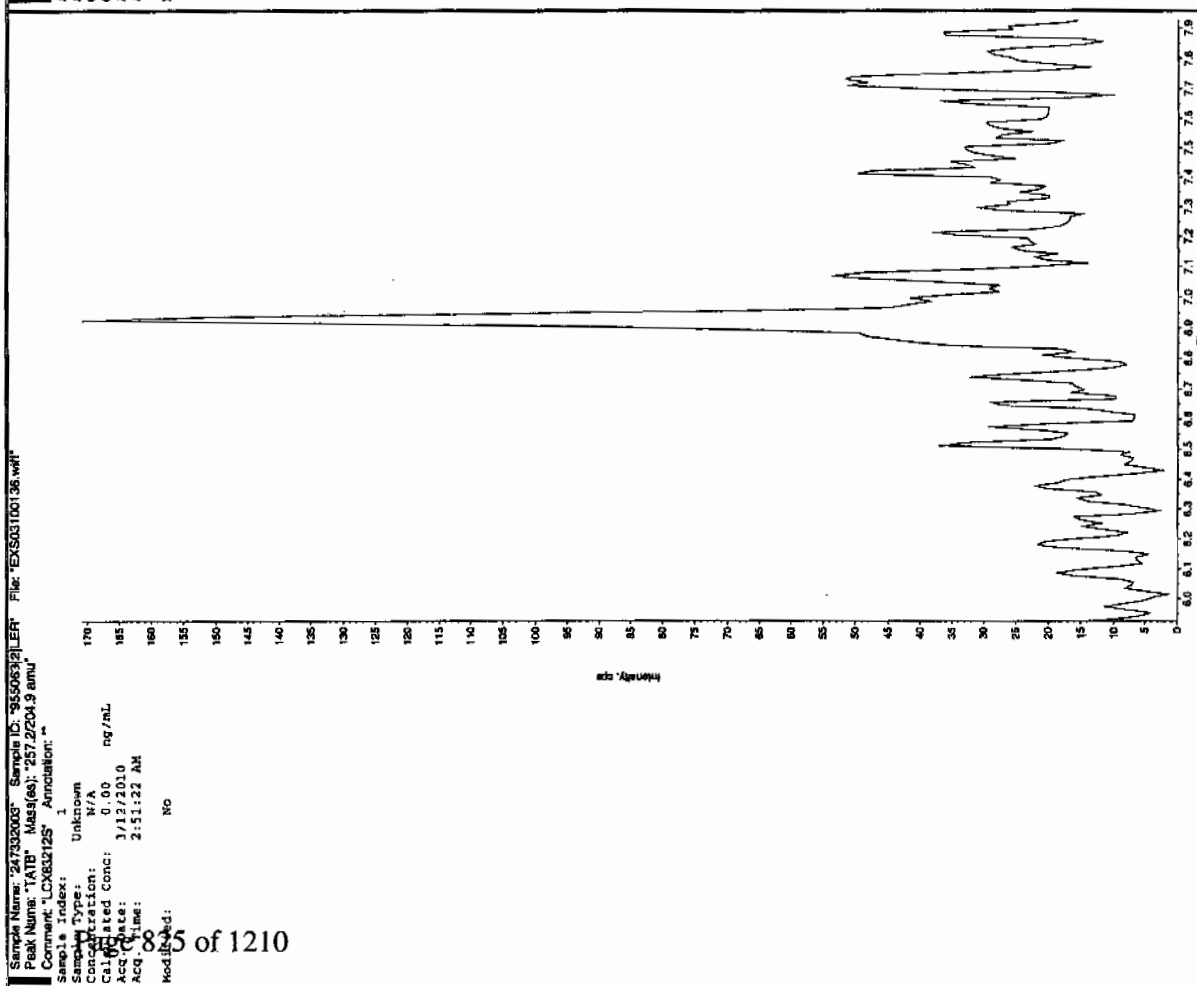
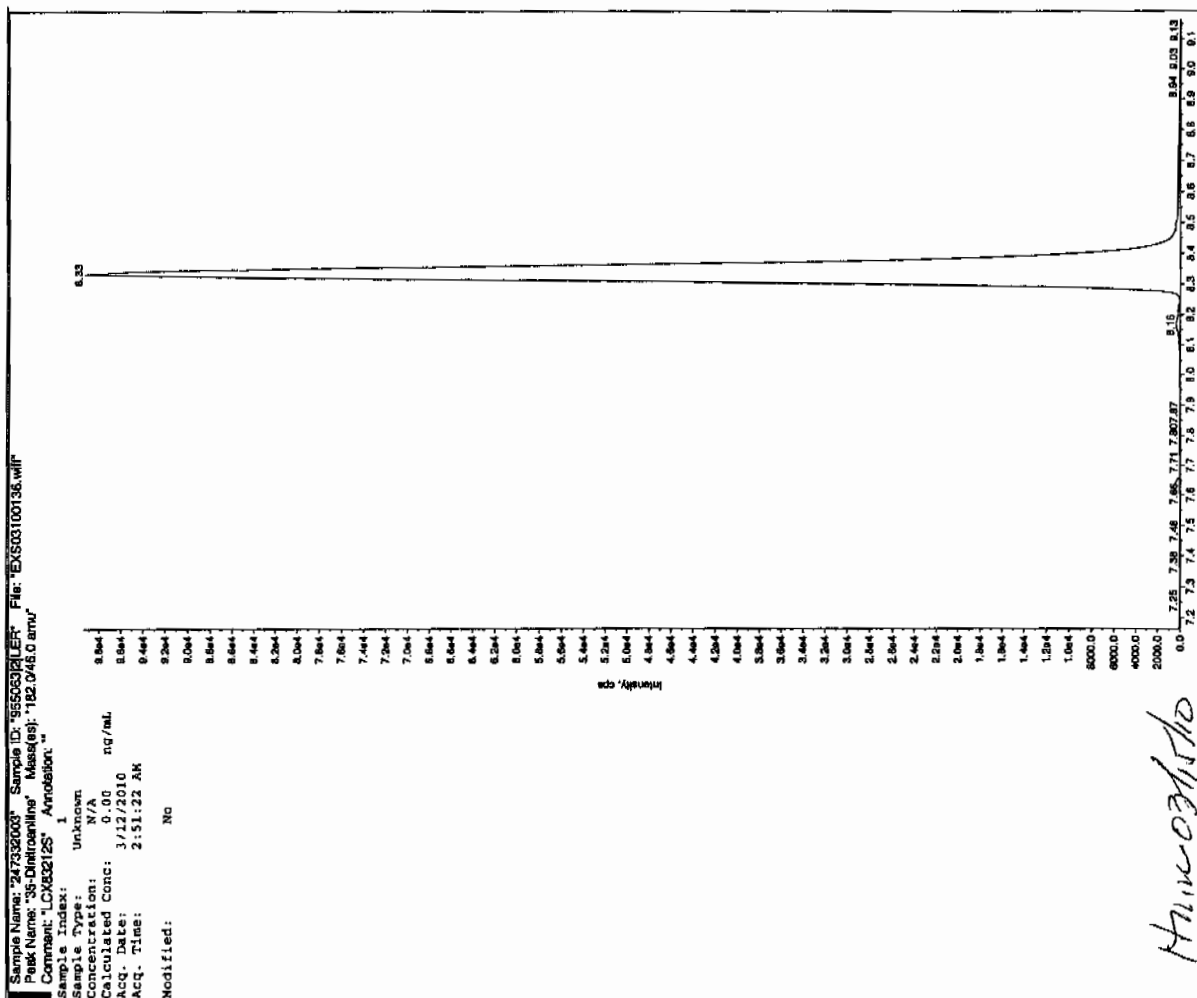
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

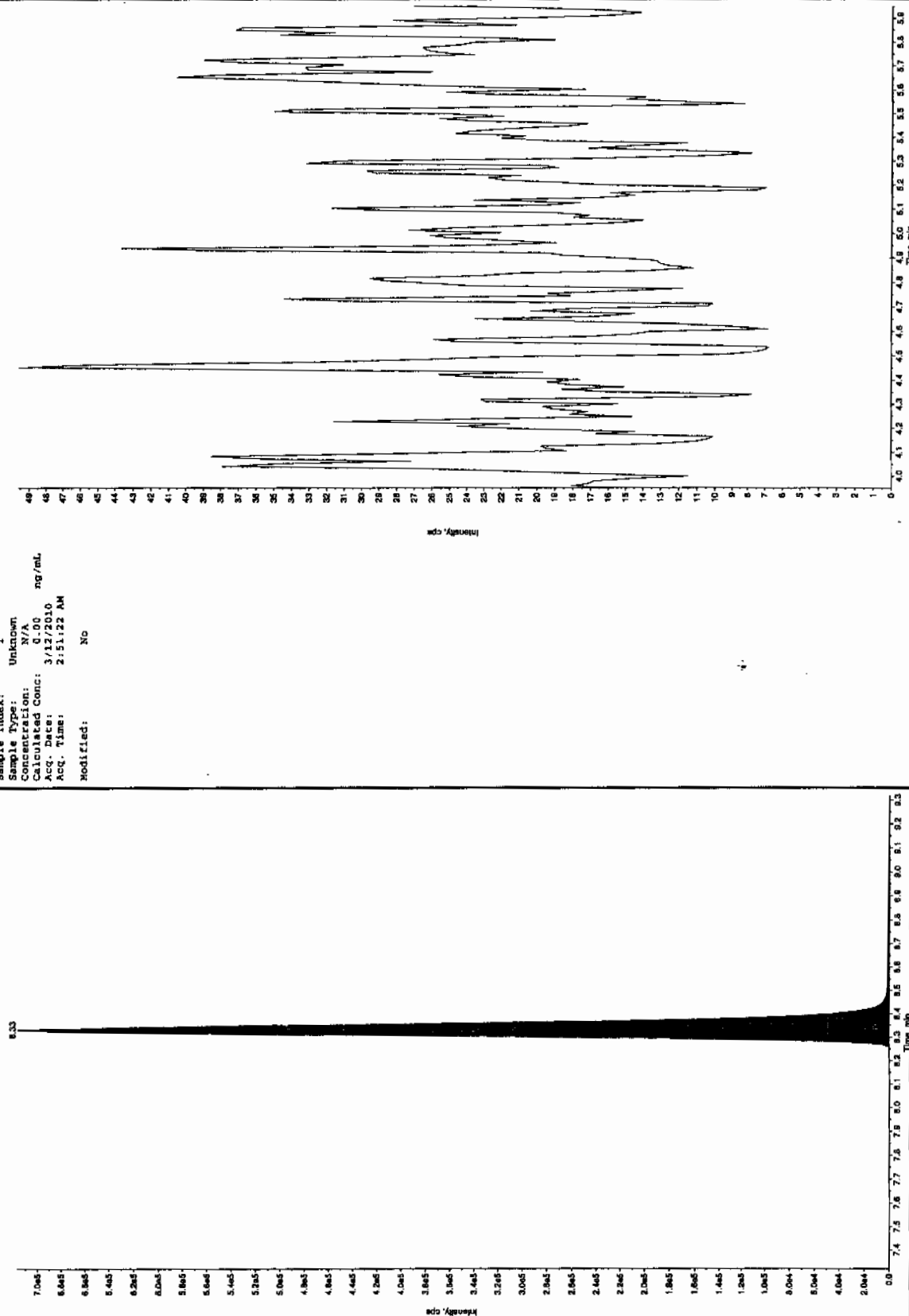
Run 3/14/10

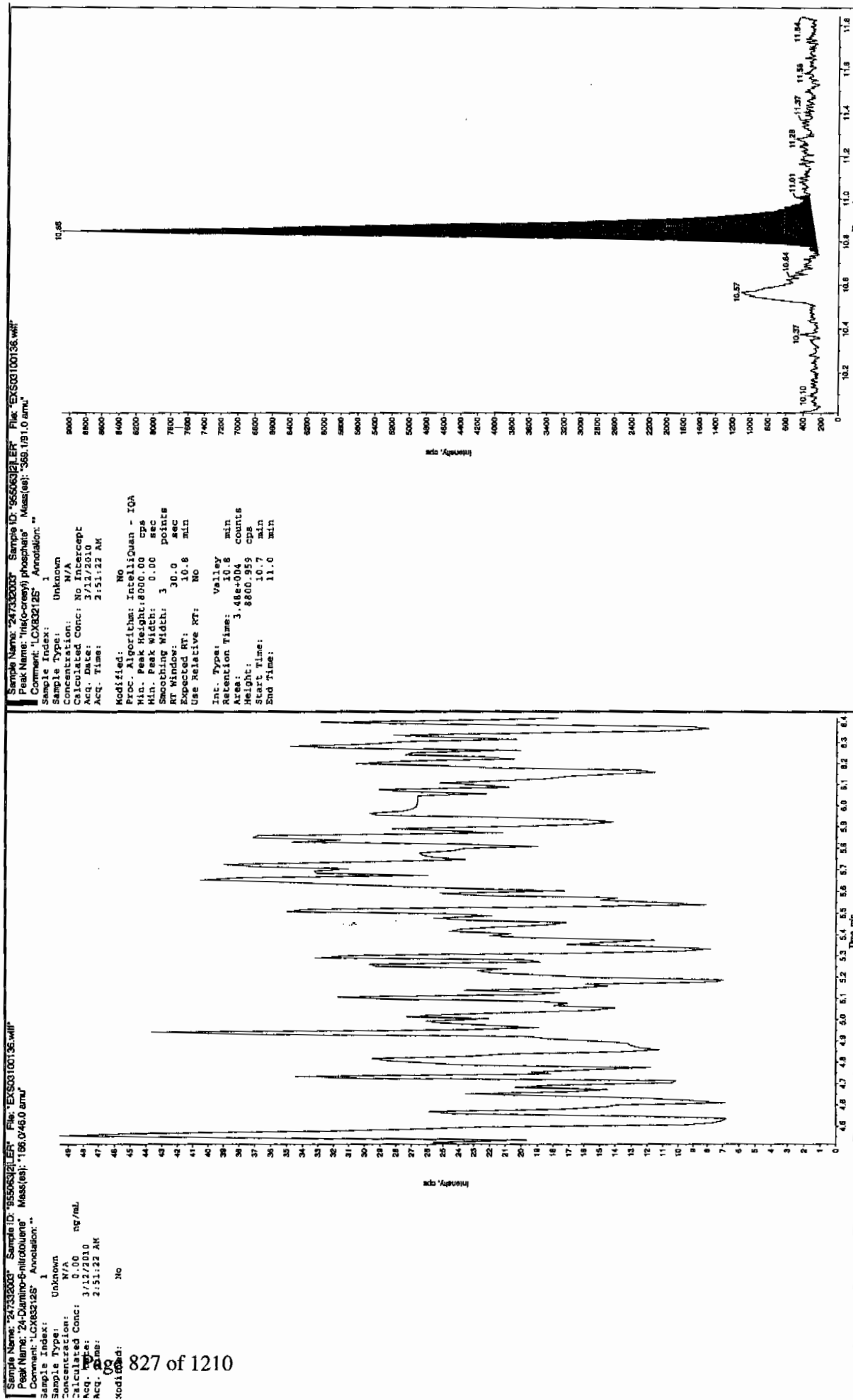


Sample Name: "247332003" Sample ID: "955063121ER" File: "EX503100136.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00
Acq. Date:	3/12/2010
Acq. Time:	2:51:22 AM
Modified:	No

Customer:	Unknown	ng/mL
Sample Index:	1	
Concentration:	N/A	
Lot:	278	
Manufactured:	3/12/2010	
QC:	Pass	
Exp. Date:	2:51:22 AM	
Off:	No	
Location:	Int. Valley	
Height:	1460.00	cps
Width:	0.00	sec
Smoothing:	3	points
RT:	15.0	min
Expected RT:	8.32	min
Relative RT:	No	
Int. Name:	Valley	
Retention Time:	15.00	min
Height:	2,706,000	counts
Weight:	7,770.0	gpc
Start Time:	8:24	min
End Time:	8:67	min





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8344

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332004

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412019a

Date Analyzed: 13-APR-10 00:31

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 37 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412019a

Date: 13-Apr-2010

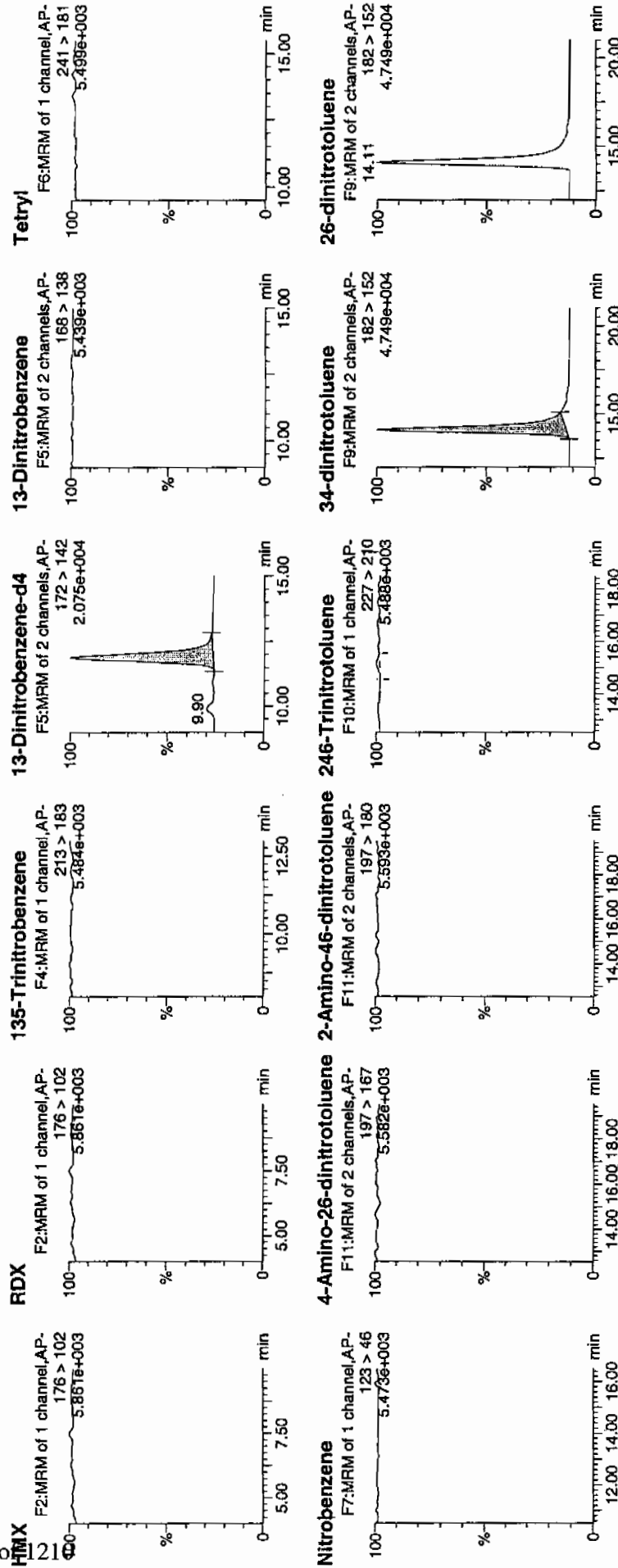
Time: 00:31:20

ID: 247332004

Val: 2:2,A

4/13/10

1955063 / 8032 / 21



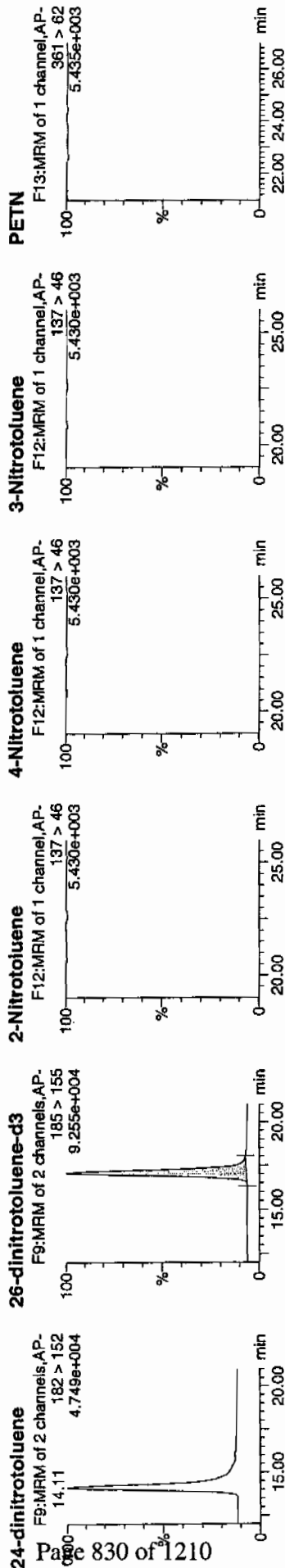
4/13/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 38 of 77

Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Rec	SN
247332004	HMX	176 > 102		5811.698							
247332004	RDX	176 > 102		5811.698							
247332004	135-Trinitrobenzene	213 > 183		5811.698							
247332004	13-Dinitrobenzene-d4	172 > 142	11.86	5811.698	5811.698	5811.698	bb			98.8	-1.2
247332004	13-Dinitrobenzene	168 > 138		5811.698							
247332004	Tetryl	241 > 181		5811.698							
247332004	Nitrobenzene	123 > 46		5811.698							
247332004	4-Amino-26-dinitrotoluene	197 > 167		35513.195							
247332004	2-Amino-46-dinitrotoluene	197 > 180		35513.195							
247332004	246-Trinitrotoluene	227 > 210		35513.195							
247332004	34-dinitrotoluene	182 > 152	14.11	17620.945	17620.945	248.090	bb	MM- 13-Apr-10	11:03:45	96.2	-3.8
247332004	26-dinitrotoluene	182 > 152		35513.195							
247332004	24-dinitrotoluene	182 > 152		35513.195							
247332004	26-dinitrotoluene-d3	185 > 155	17.06	35513.195	35513.195	35513.195	bb			101.5	1.5
247332004	2-Nitrotoluene	137 > 46		35513.195							
247332004	4-Nitrotoluene	137 > 46		35513.195							
247332004	3-Nitrotoluene	137 > 46		35513.195							
247332004	PETN	361 > 62		35513.195							

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8344

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332004

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100137.wiff

Date Analyzed: 12-MAR-10 03:07

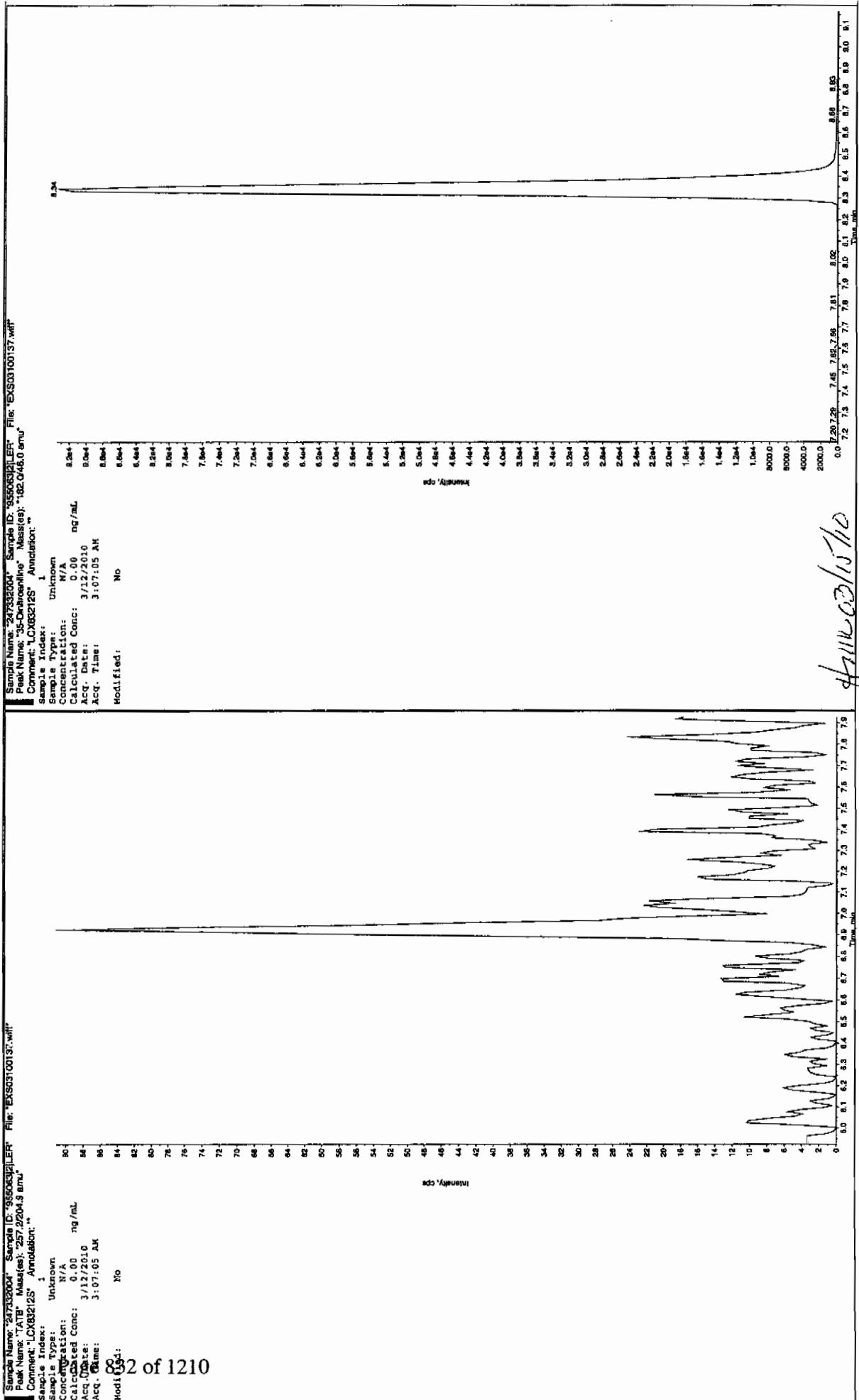
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

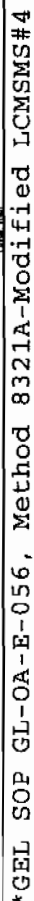
*Concentration =

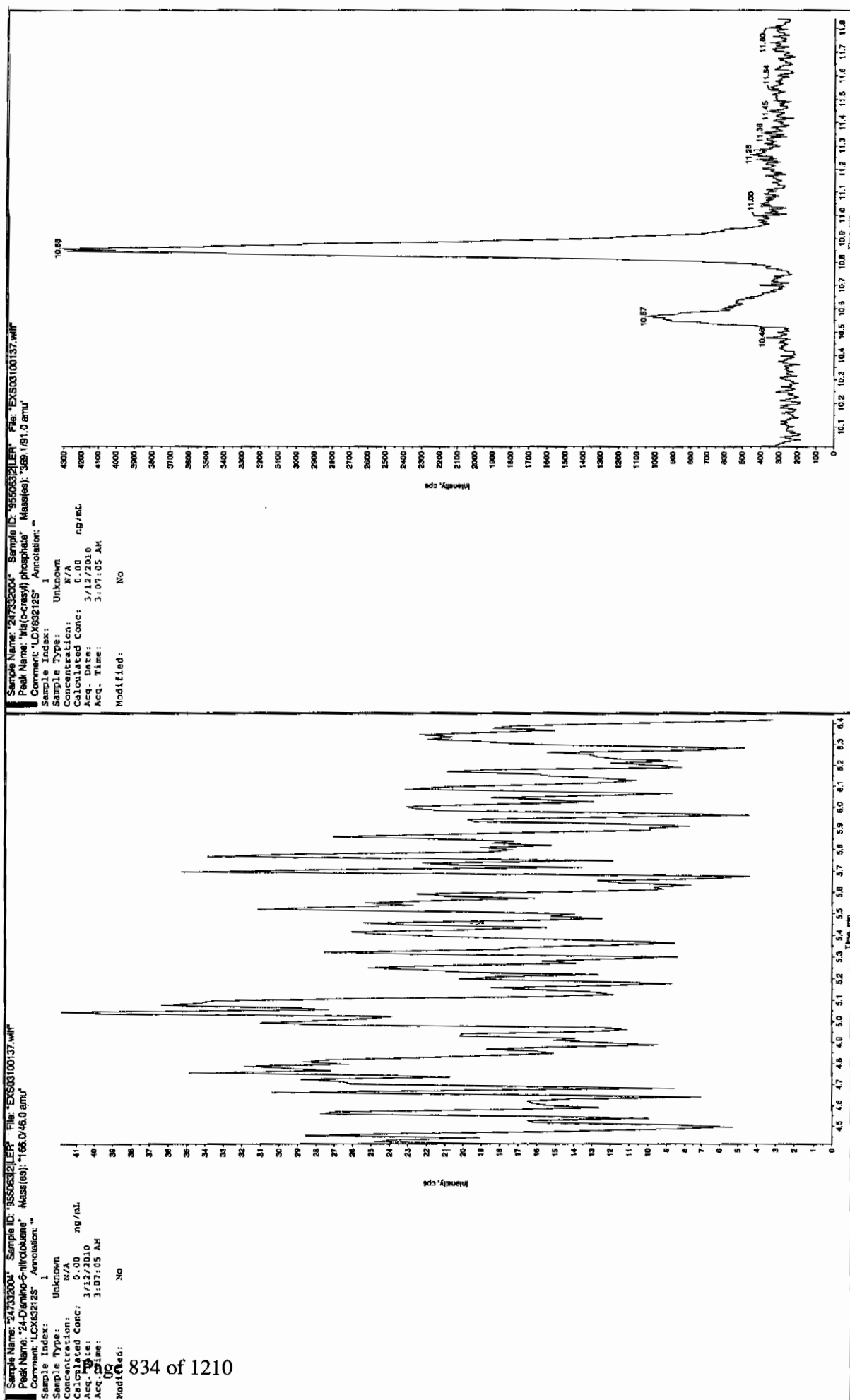
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Run 3/14/10



4/14/03/15/10





834 of 1210

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8345

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332005

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412020a

Date Analyzed: 13-APR-10 01:00

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 39 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412020a

Date: 13-Apr-2010

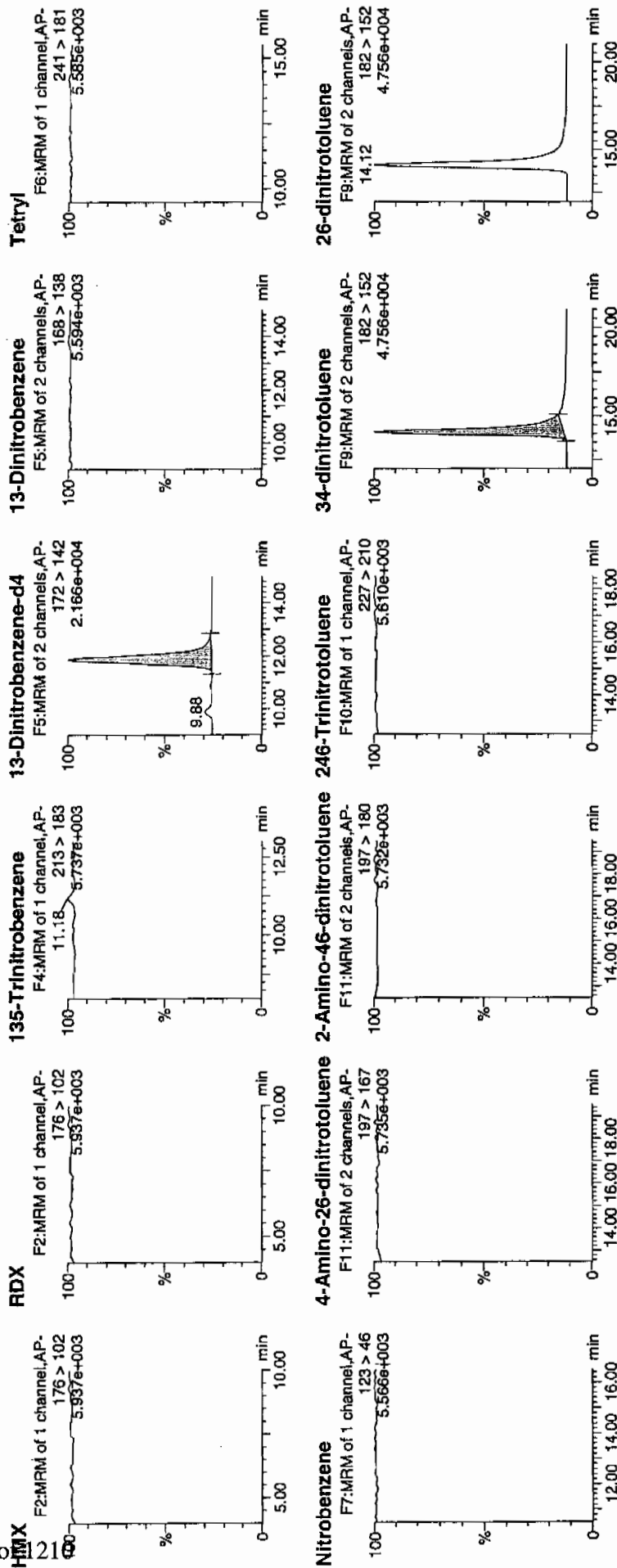
Time: 01:00:49

ID: 247332005

Val: 2:2,B

1477
4/13/10

1477
4/13/10
955063/8000/2



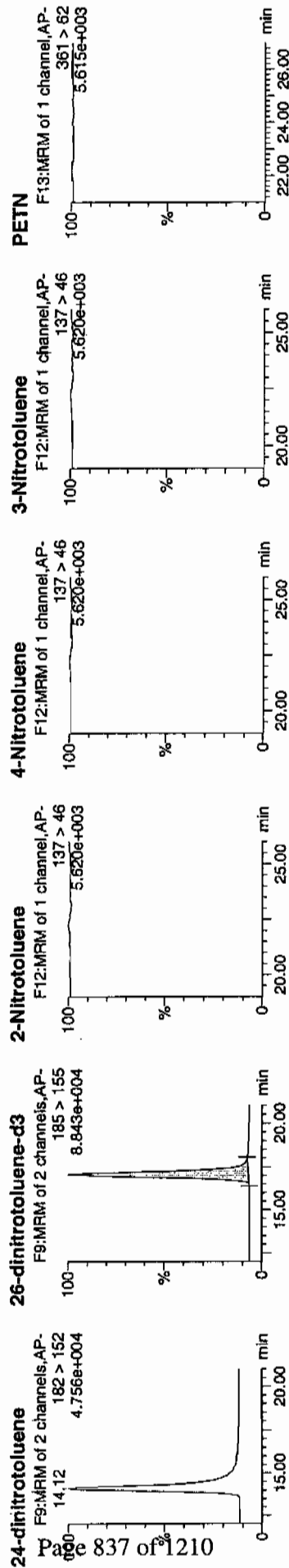
4/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 40 of 77

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	SArea	Abs.Resp	Response	Flags	Mod	Time	Conc	%Dev	S/N
247332005	HMX	176 > 102		6011.911									
247332005	RDX	176 > 102		6011.911									
247332005	135-Trinitrobenzene	213 > 183		6011.911									
247332005	13-Dinitrobenzene-d4	172 > 142	11.87	6011.911		6011.911	6011.911	bb		511.1853	102.2	2.2	338.2
247332005	13-Dinitrobenzene	168 > 138		6011.911									
247332005	Tetryl	241 > 181		6011.911									
247332005	Nitrobenzene	123 > 46		33892.680									
247332005	4-Amino-26-dinitrotoluene	197 > 167		33892.680									
247332005	2-Amino-46-dinitrotoluene	197 > 180		33892.680									
247332005	246-Trinitrotoluene	227 > 210		33892.680									
247332005	34-dinitrotoluene	182 > 152	14.12	17862.025	33892.680	17862.025	263.509	bb		255.5538	102.2	2.2	841.2
247332005	26-dinitrotoluene	182 > 152		33892.680									
247332005	24-dinitrotoluene	182 > 152		33892.680									
247332005	26-dinitrotoluene-d3	185 > 155	17.05	33892.680	33892.680	33892.680	33892.680	bb		484.4140	96.9	-3.1	2528.8
247332005	2-Nitrotoluene	137 > 46		33892.680									
247332005	4-Nitrotoluene	137 > 46		33892.680									
247332005	3-Nitrotoluene	137 > 46		33892.680									
247332005	PETN	361 > 82		33892.680									

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8345

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332005

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100138.wiff

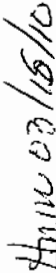
Date Analyzed: 12-MAR-10 03:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

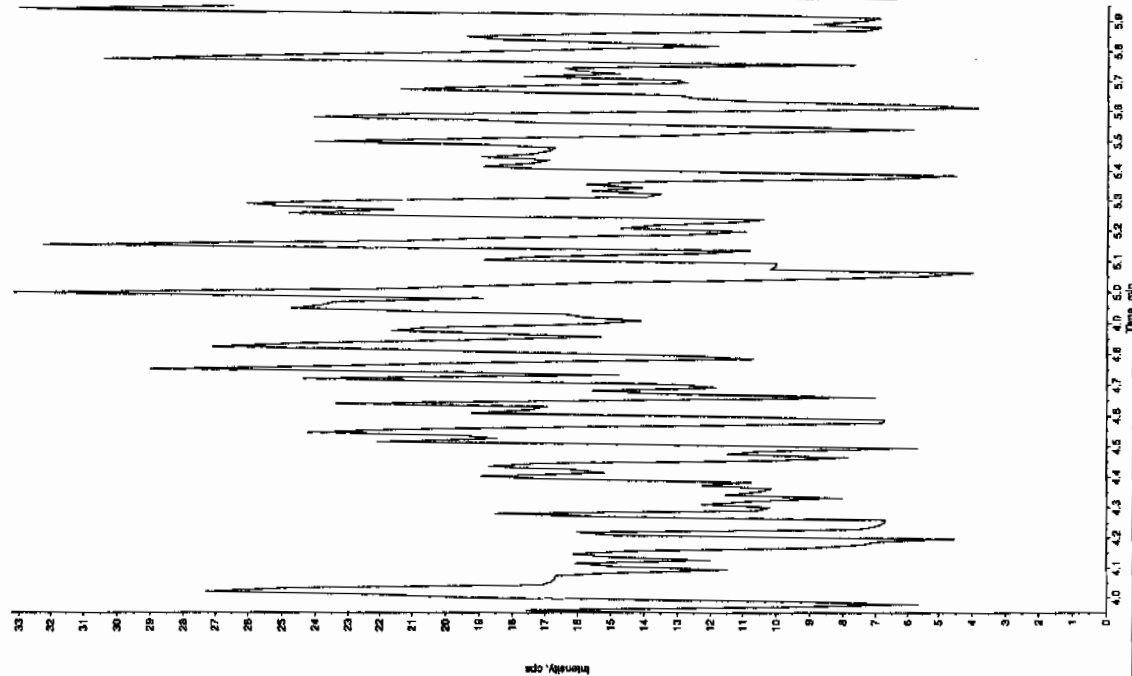
*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor



Sample Name: "21732005" Sample ID: "9550632125" File: "EX503100138.wif"
 Peak Name: "25-Oxantho-4-nitrofluorene" Mass(es): "165.0460 amu"
 Comment: "LCX832125" Annotation: "

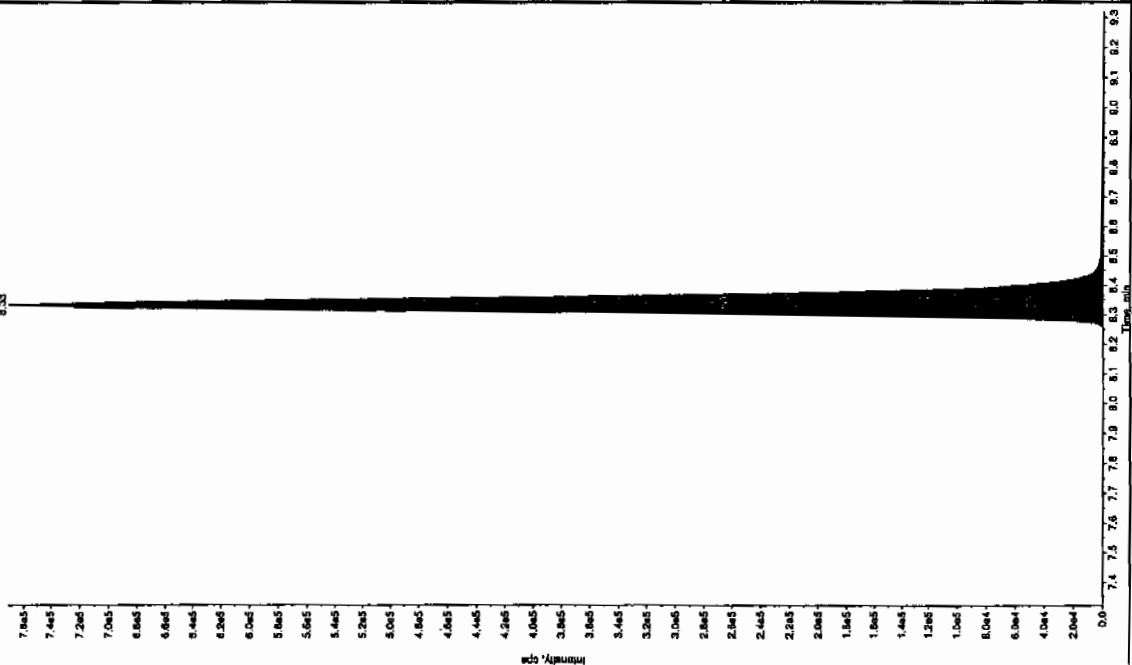
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 3:22:47 AM
 Modified: No

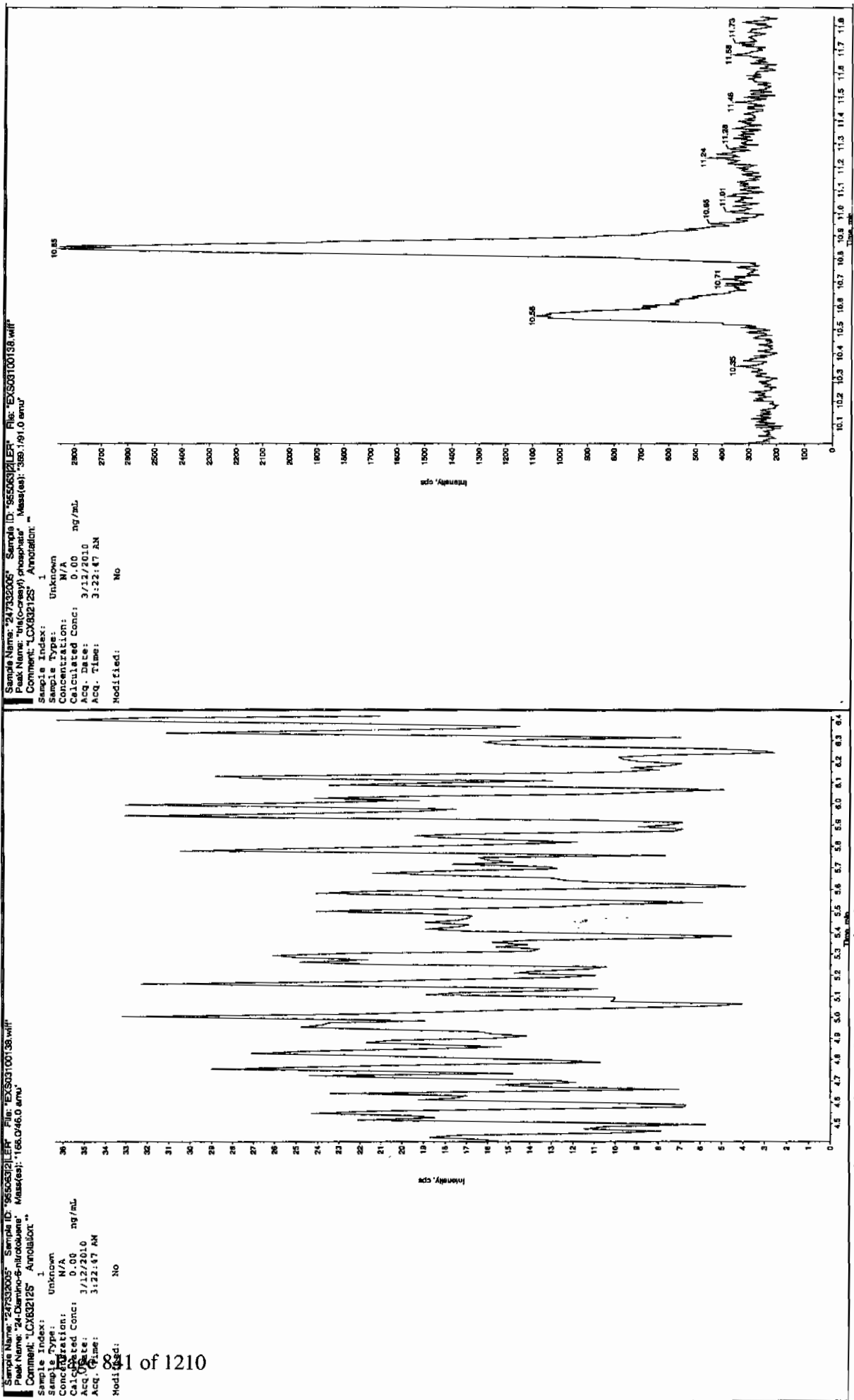


Sample Name: "21732005" Sample ID: "9550632125" File: "EX503100138.wif"
 Peak Name: "25-Oxantho-4-nitrofluorene" Mass(es): "165.0460 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 266. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 3:22:47 AM
 Modified: No

Proc Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Exported RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.87e+005 counts
 Height: 771452.393 cps
 Start Time: 8.20 min
 End Time: 8.67 min





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8342

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332006

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412021a

Date Analyzed: 13-APR-10 01:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412021a

Date: 13-Apr-2010

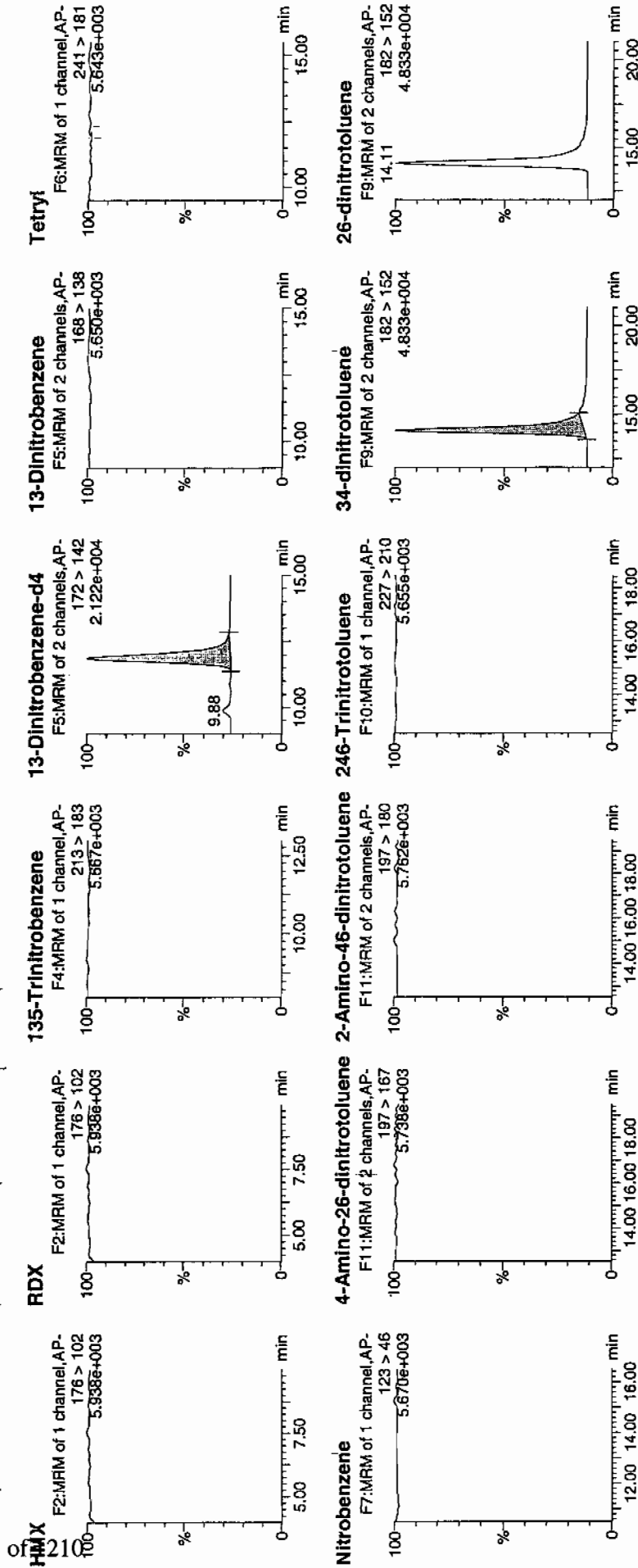
Time: 01:30:19

ID: 247332006

Vial: 2:2,C

4/13/10

955063/8022/21



4/14/10

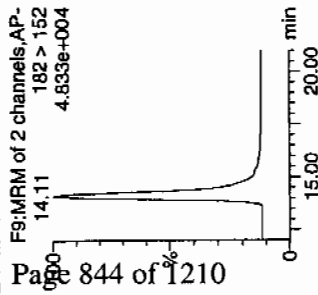
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

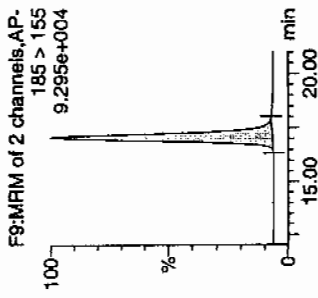
Printed: Tue Apr 13 11:14:26 2010, Page 42 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qtd, Time: Tue Apr 13 11:12:22 2010

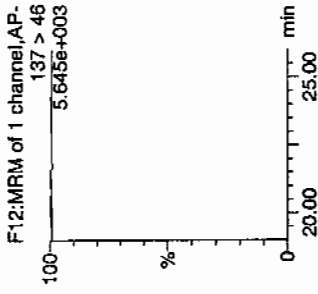
24-dinitrotoluene



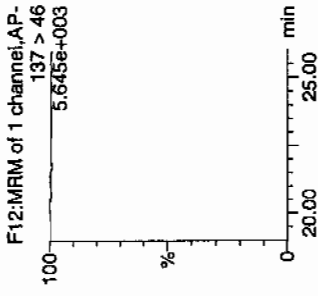
26-dinitrotoluene-d3



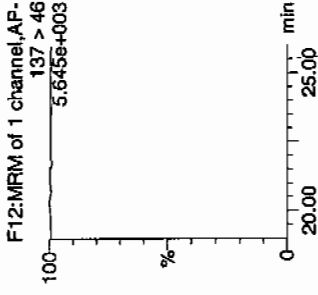
2-Nitrotoluene



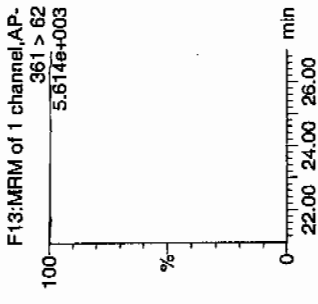
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Flags	Mod Date	Mod Time	Conc	% Rec	% Dev	SSN
247332006	HMZ	176 > 102		5972.641									
247332006	RDX	176 > 102		5972.641									
247332006	135-Trinitrobenzene	213 > 183		5972.641									
247332006	13-Dinitrobenzene-d4	172 > 142	11.87	5972.641		5972.641	bb		13-Apr-10	10:59:53	507.8462	101.6	1.6
247332006	13-Dinitrobenzene	168 > 138		5972.641									
247332006	Tetryl	241 > 181		5972.641									
247332006	Nitrobenzene	123 > 46		5972.641									
247332006	4-Amino-26-dinitrotoluene	197 > 167		35508.047									
247332006	2-Amino-46-dinitrotoluene	197 > 180		35508.047									
247332006	246-Trinitrotoluene	227 > 210		35508.047									
247332006	34-dinitrotoluene	182 > 152	14.11	18112.389		18112.389	bb				247.3469	98.9	-1.1
247332006	26-dinitrotoluene	182 > 152		35508.047									
247332006	24-dinitrotoluene	182 > 152		35508.047									
247332006	26-dinitrotoluene-d3	185 > 155	17.06	35508.047		35508.047	bb				507.5017	101.5	1.5
247332006	2-Nitrotoluene	137 > 46		35508.047									
247332006	4-Nitrotoluene	137 > 46		35508.047									
247332006	3-Nitrotoluene	137 > 46		35508.047									
247332006	PETN	361 > 62		35508.047									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8342

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332006

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100139.wiff

Date Analyzed: 12-MAR-10 03:38

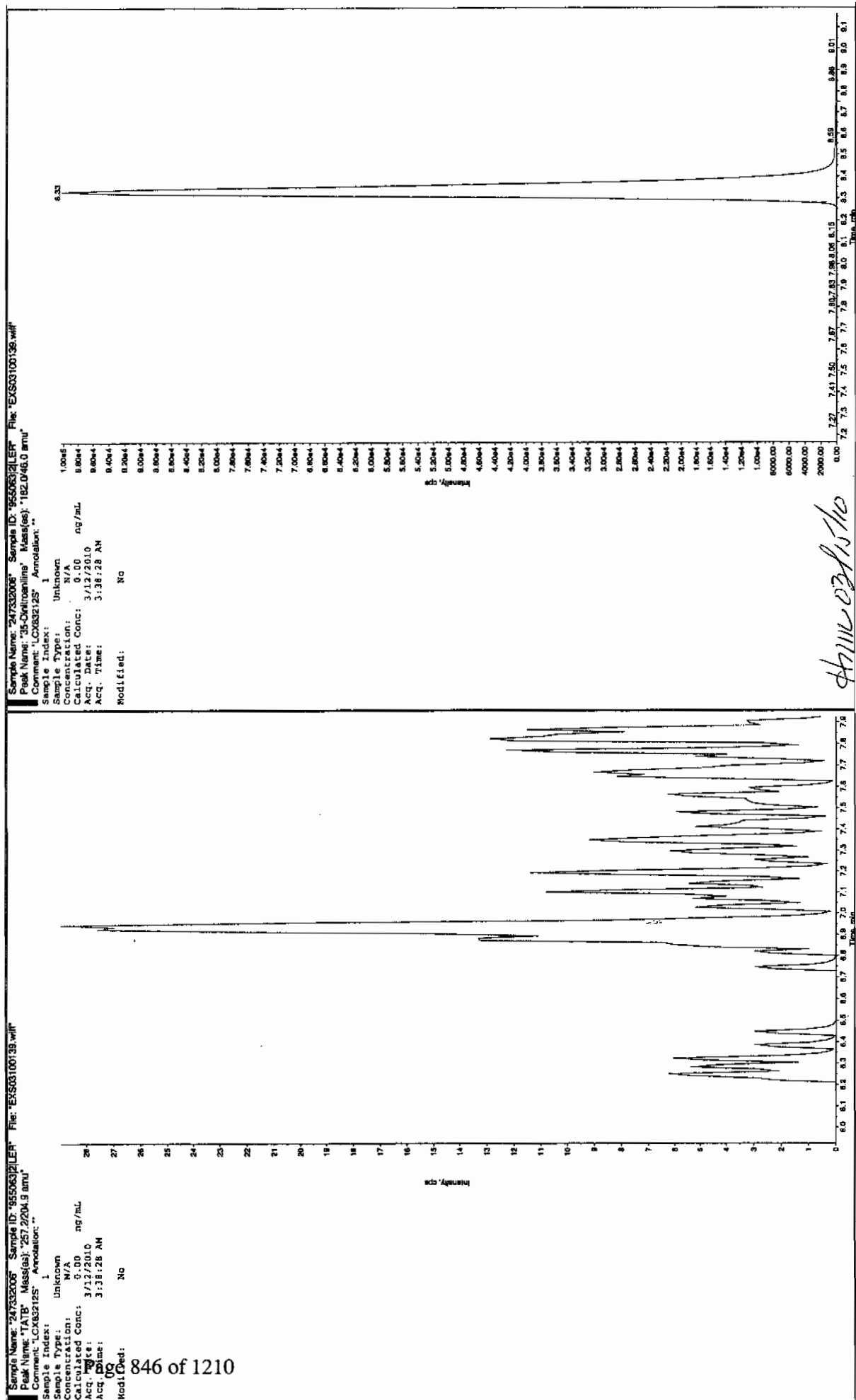
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

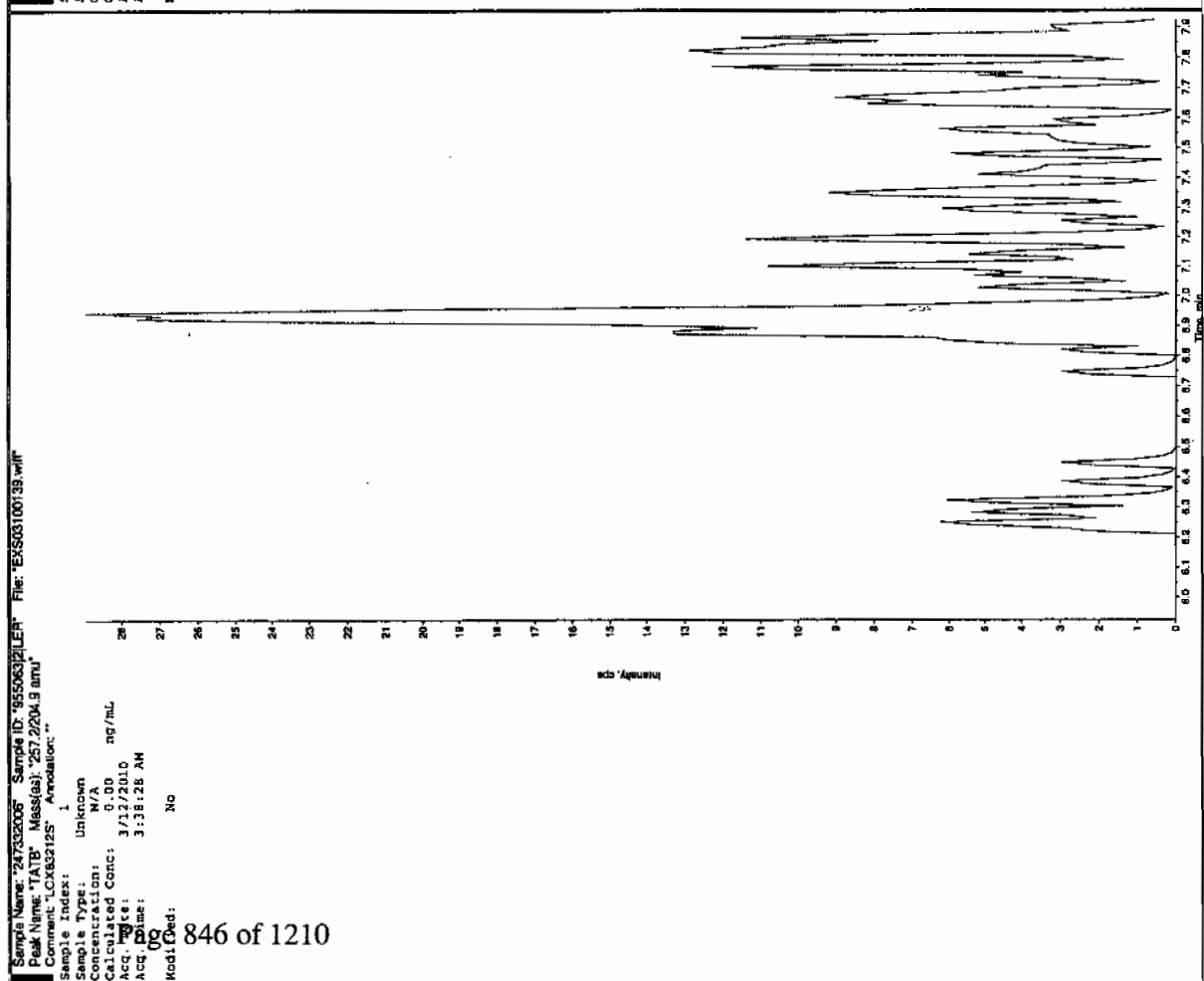
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

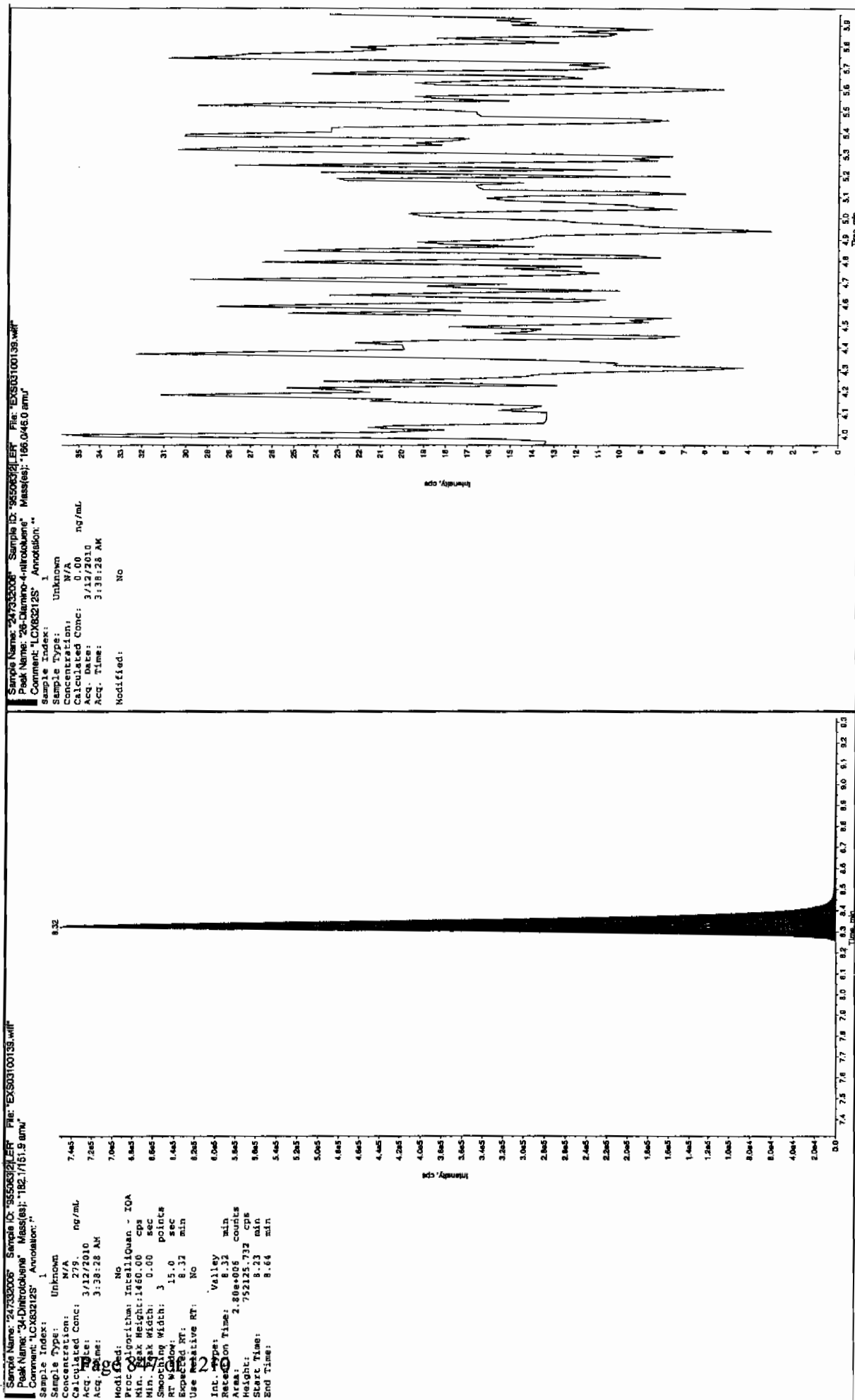
3/14/10

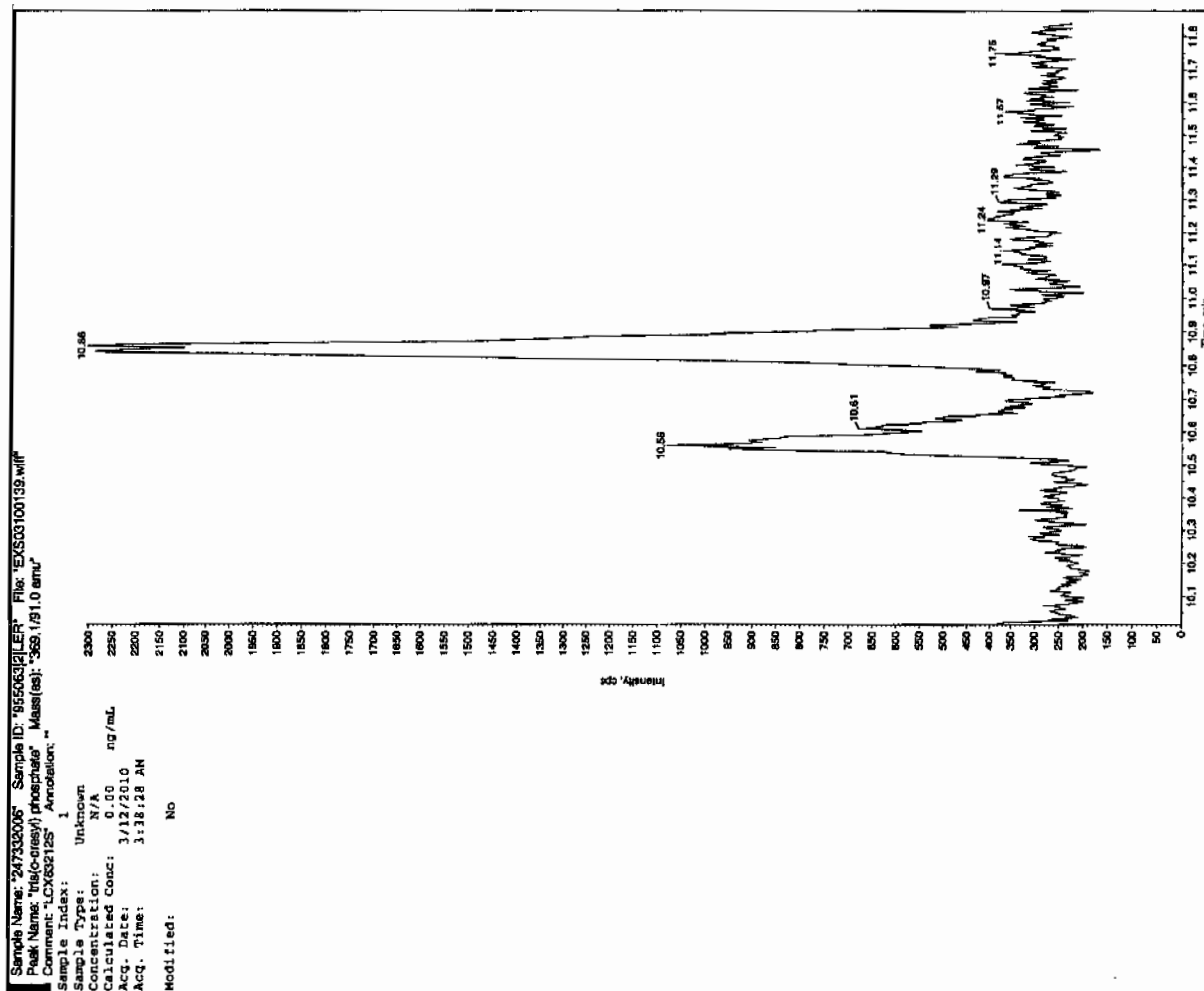
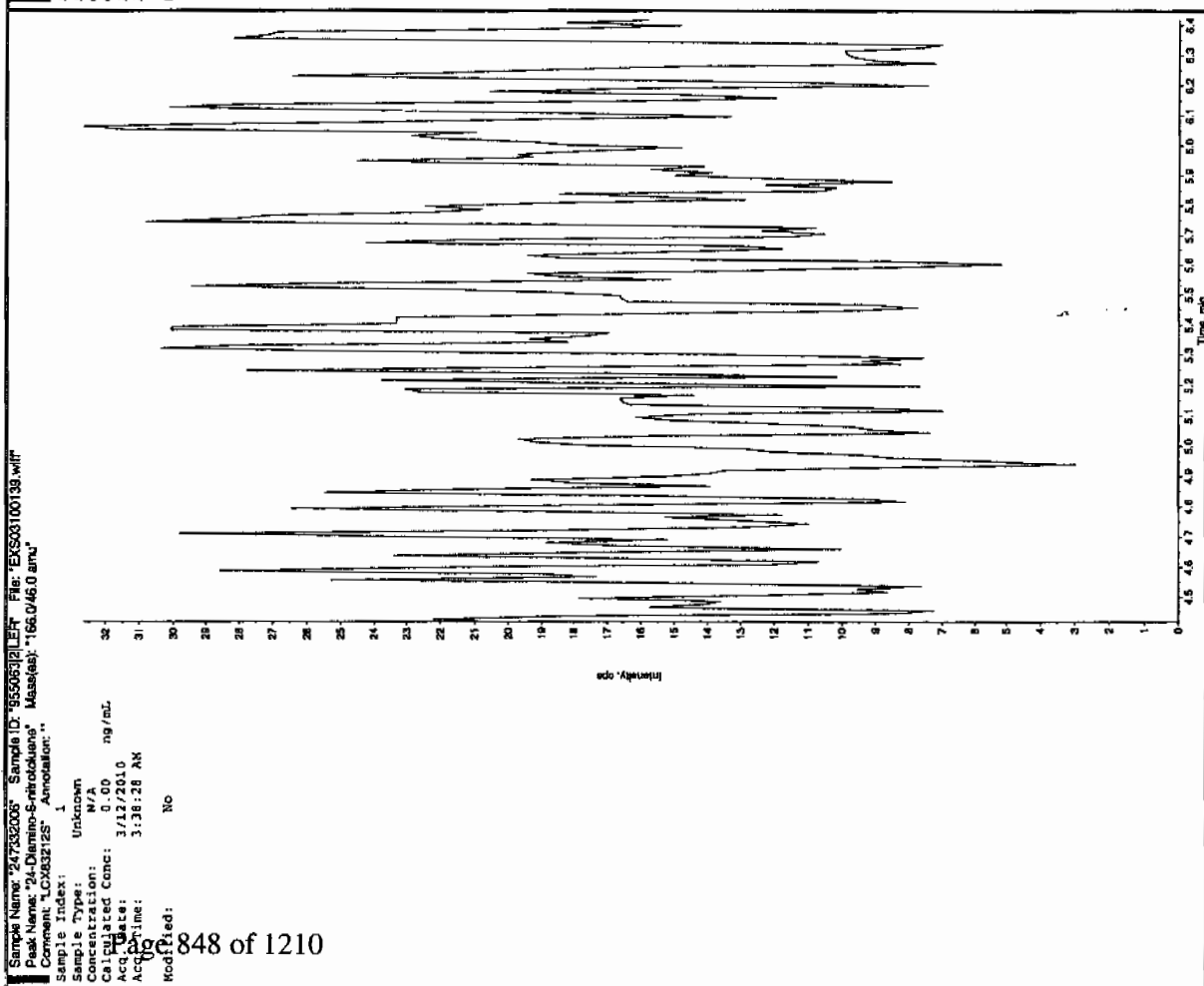


3/14/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM832125





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8343

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332007

Sample Amount 2

Moisture: 4.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412022a

Date Analyzed: 13-APR-10 01:59

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penry

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412022a

Date: 13-Apr-2010

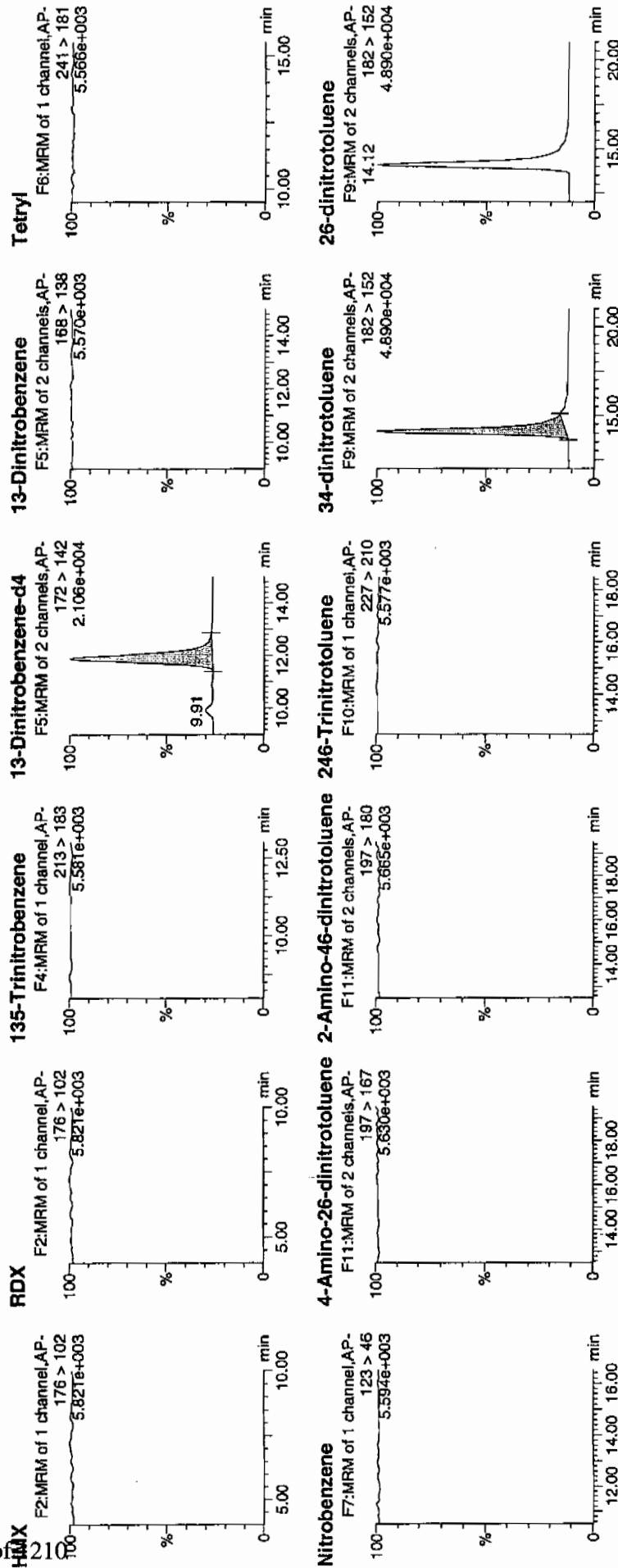
Time: 01:59:48

ID: 247332007

Vol: 2:2,D

4/13/10

Case 955063 / 5022 / 2

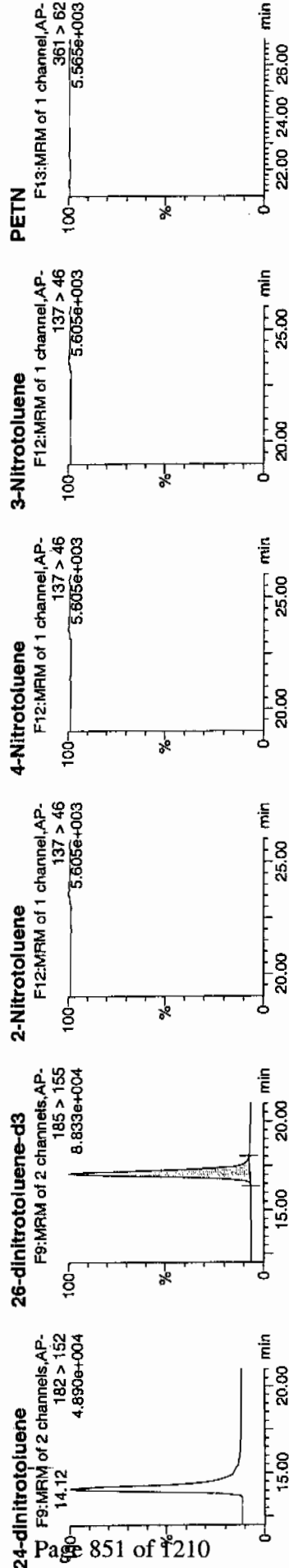


Handwritten signature: 4/13/10

Quantify Sample Report

Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

[illegible]

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8343

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332007

Sample Amount 2

Moisture: 4.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100140.wiff

Date Analyzed: 12-MAR-10 03:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

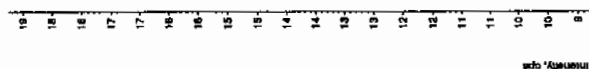
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Len 3/14/10

Sample Name: "247332007" Sample ID: "955063121" File: "EXS03100140.vfp"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX832125" Annotation: "

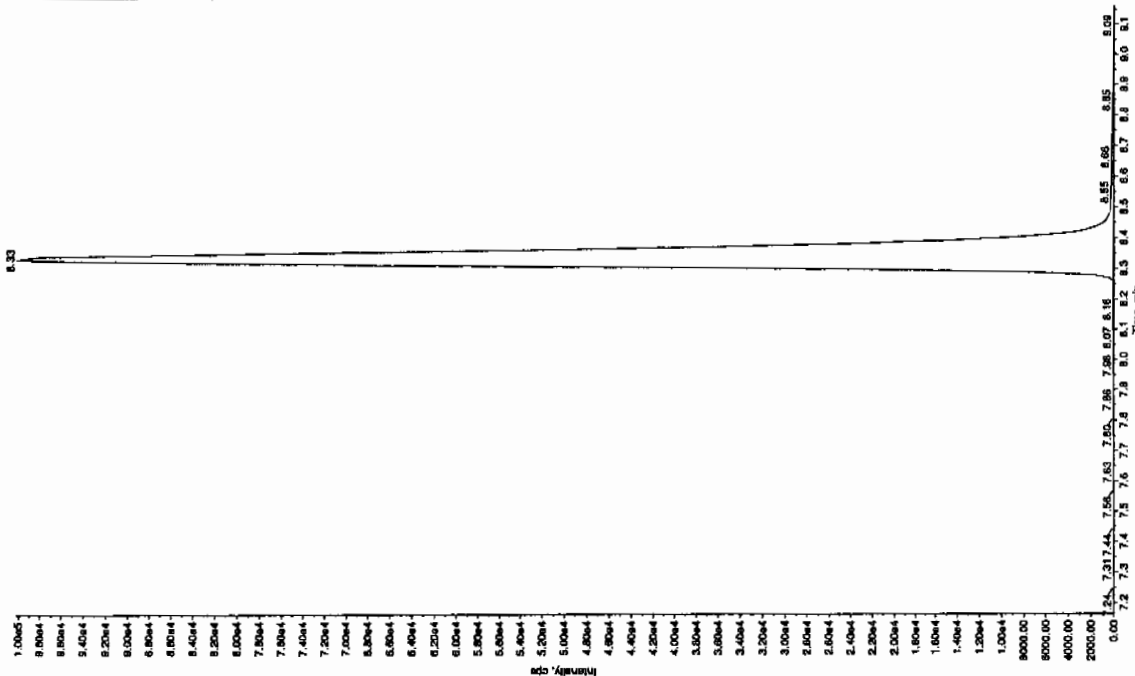
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 3/12/2010
 Acq. Time: 3:54:09 AM
 Modified: No



853 of 1210

Sample Name: "247332007" Sample ID: "955063121" File: "EXS03100140.vfp"
 Peak Name: "35-Dinitrobenzidine" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: "

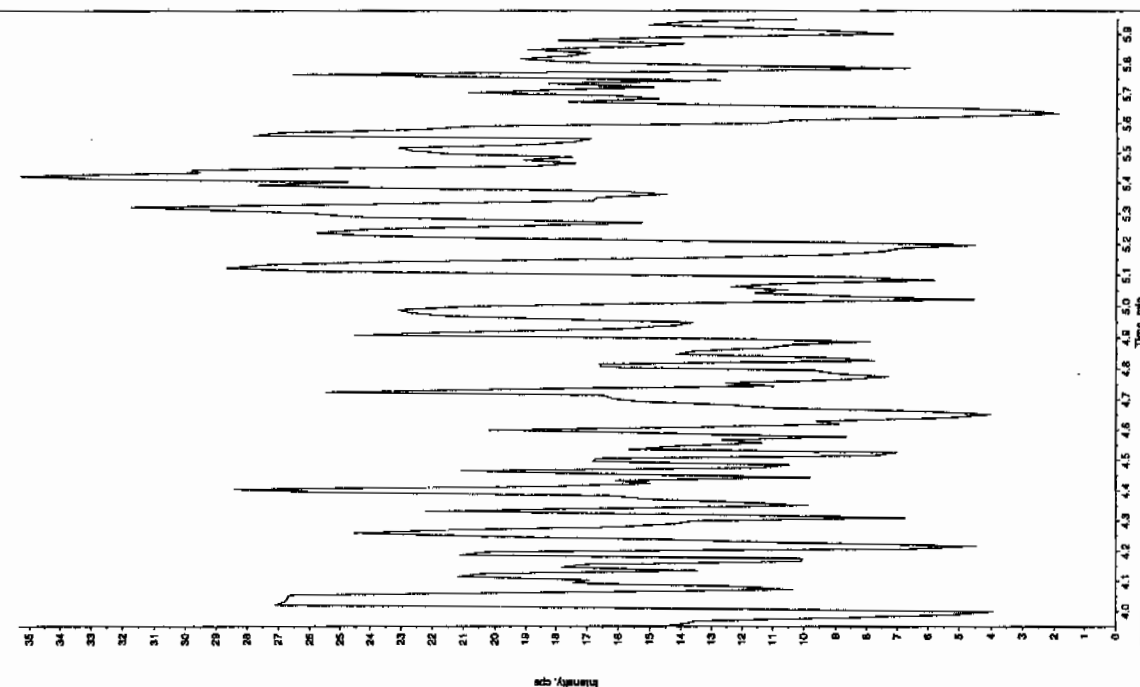
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 3/12/2010
 Acq. Time: 3:54:09 AM
 Modified: No



Amw 03/13/10

Sample Name: 247332007 Sample ID: 95508321LRF File: EX603100140.wif
 Peak Name: 26-Dinitro-4-nitrofluorene Mass(es): 166.046.0 amu
 Comment: LCX83212S Annotation: "

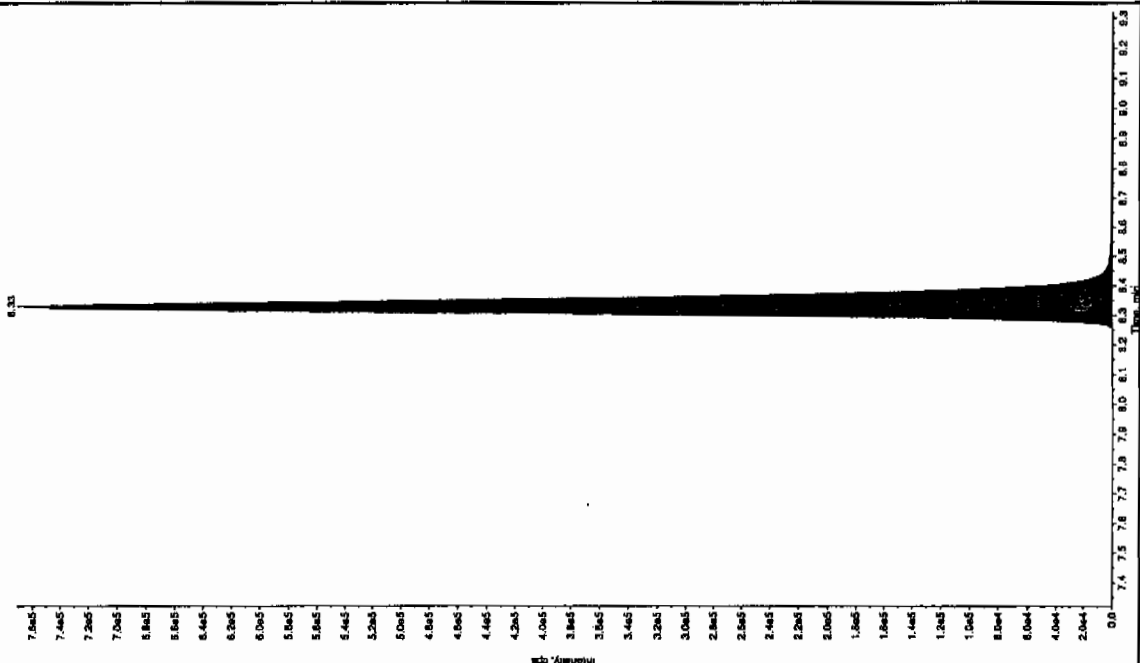
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 3/12/2010
 Acq. Time: 3:54:09 AM
 Modified: No

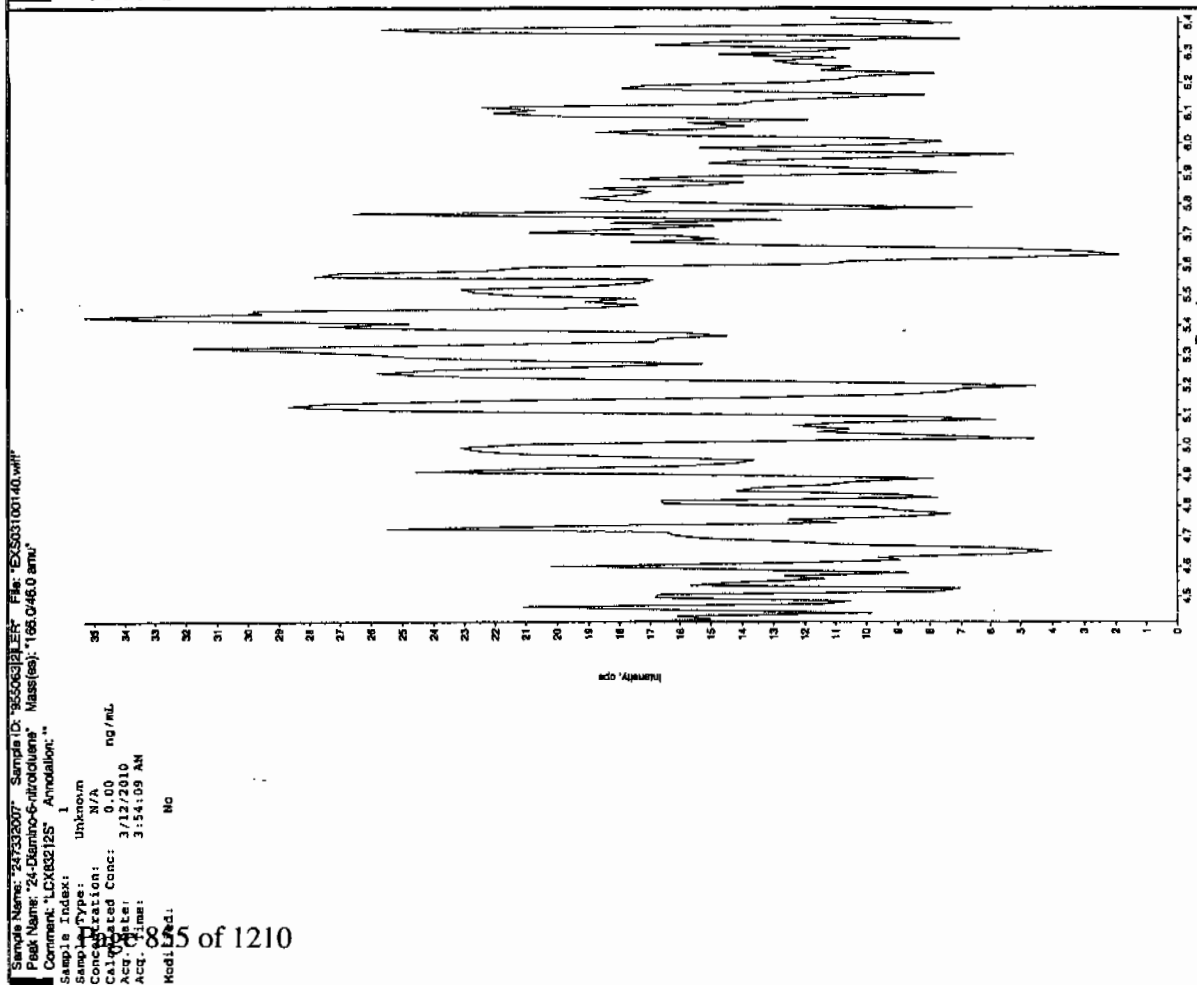
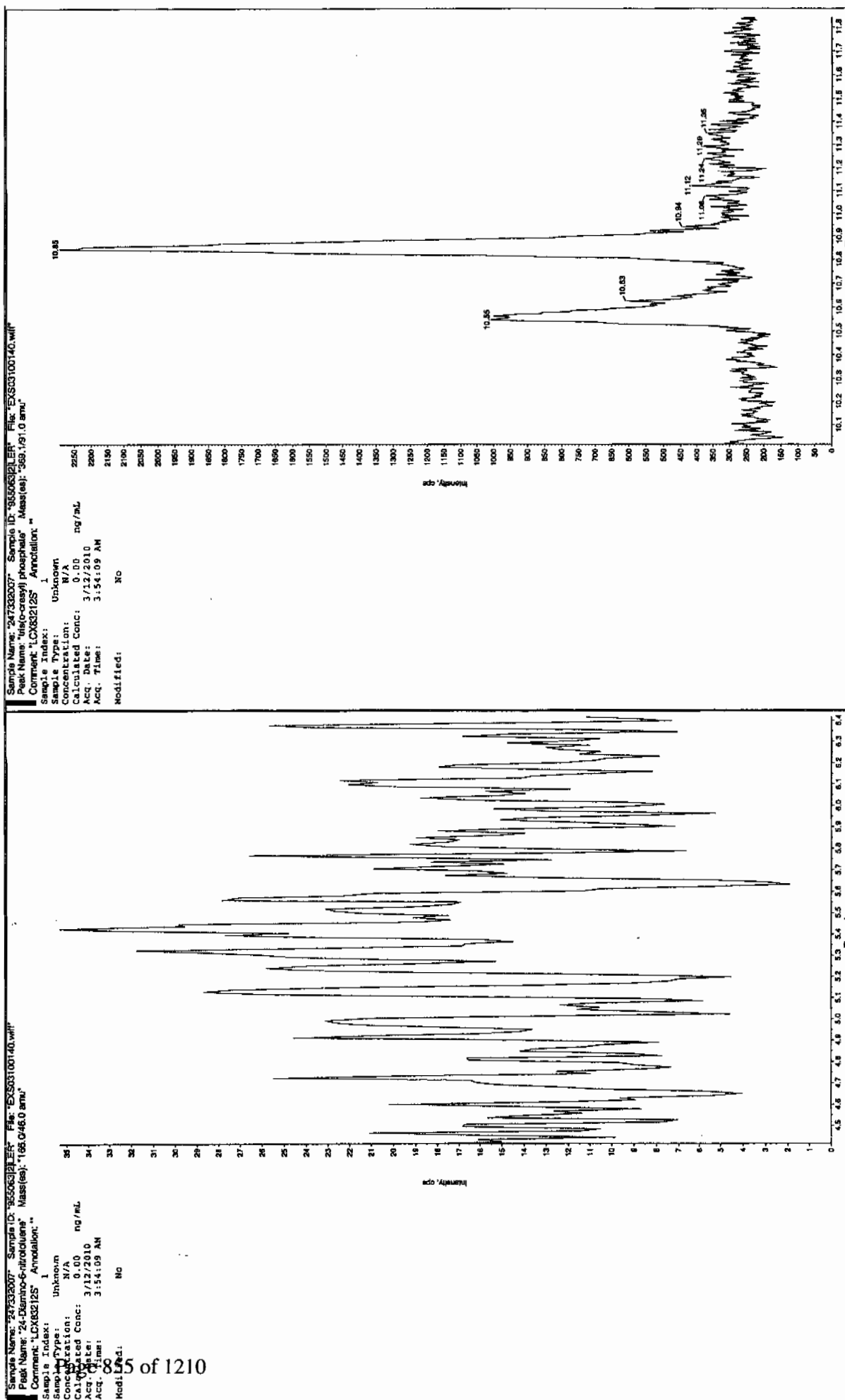


Sample Name: 247332007 Sample ID: 95508321LRF File: EX603100140.wif
 Peak Name: 34-Dinitrofluorene Mass(es): 182.17151.9 amu
 Comment: LCX83212S Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 3/12/2010
 Acq. Time: 3:54:09 AM
 Modified: No
 Proc-Algo: Intelligo - IOA
 Min Peak Height: 1860.00 cps
 Min Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.83e+006 counts
 Height: 771177.063 cps
 Start Time: 8.28 min
 End Time: 8.70 min





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8377

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332008

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412026a

Date Analyzed: 13-APR-10 03:57

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412026a

Date: 13-Apr-2010

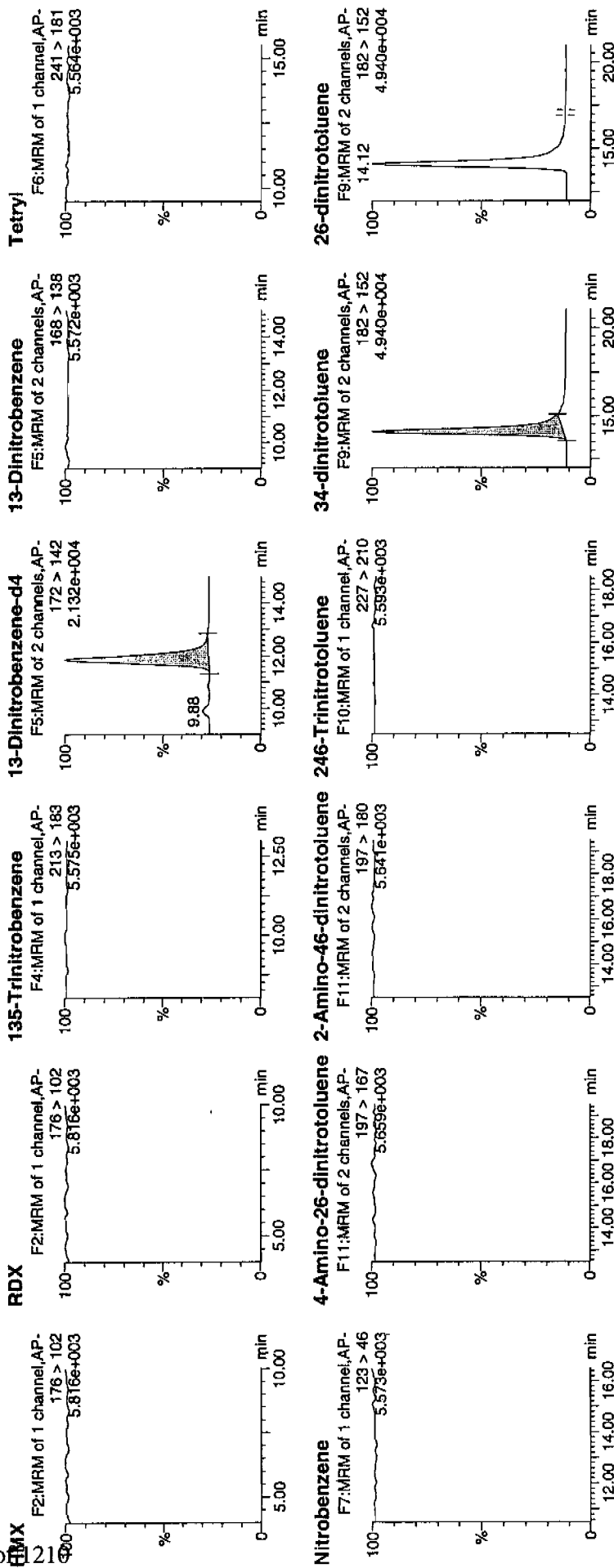
Time: 03:57:49

ID: 247332008

Vial: 2;2,E

4/13/10

LANC 955063 / 8022 / 21



4/14/10

Dataset: C:\MASSLYNX\New_Exp\PRO1041210expA.qtd, Time: Tue Apr 13 11:12:22 2010

24-dinitrotoluene

F9:MRM of 2 channels, AP-

182 > 152

4.940e+004

14.12

age 858 of 1210

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

26-dinitrotoluene-d3

F9:MRM of 2 channels, AP-

185 > 155

9.178e+004

185 > 155

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

2-Nitrotoluene

F12:MRM of 1 channel, AP-

137 > 46

5.562e+003

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

4-Nitrotoluene

F12:MRM of 1 channel, AP-

137 > 46

5.562e+003

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

3-Nitrotoluene

F12:MRM of 1 channel, AP-

137 > 46

5.562e+003

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

PETN

F13:MRM of 1 channel, AP-

361 > 62

5.549e+003

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

PETN

F13:MRM of 1 channel, AP-

361 > 62

5.549e+003

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

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min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

%

min

22.00

0

100

PETN

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8377

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 247332008

Sample Amount 2

Moisture: 5.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100144.wiff

Date Analyzed: 12-MAR-10 04:56

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

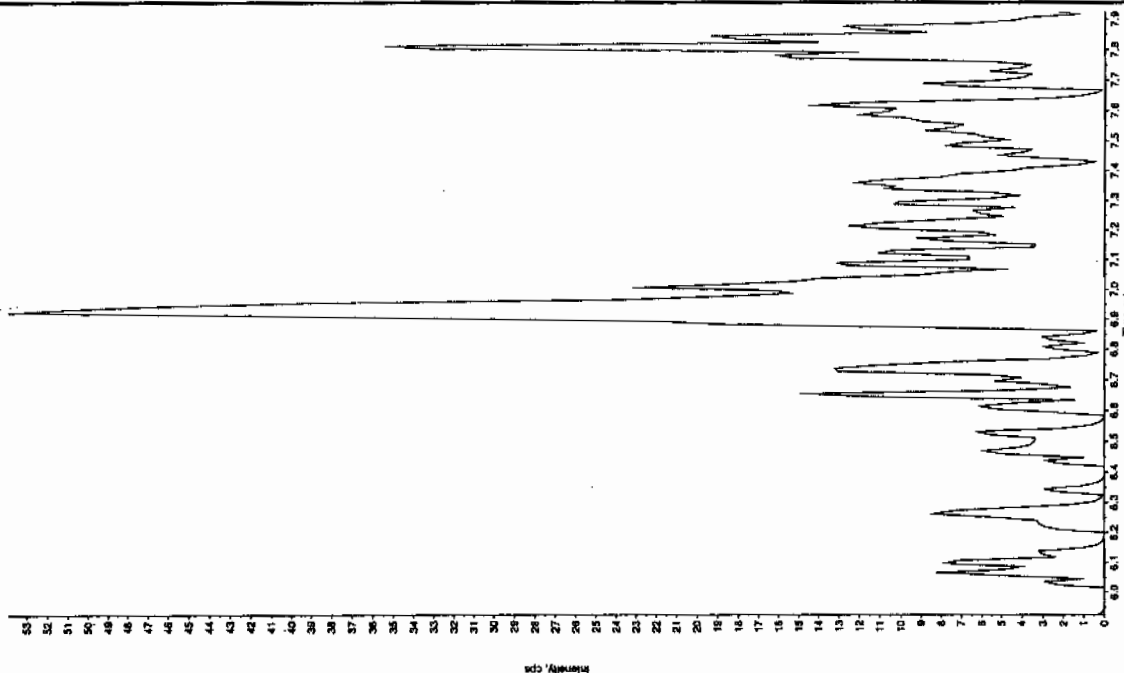
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

3/14/10
Ren

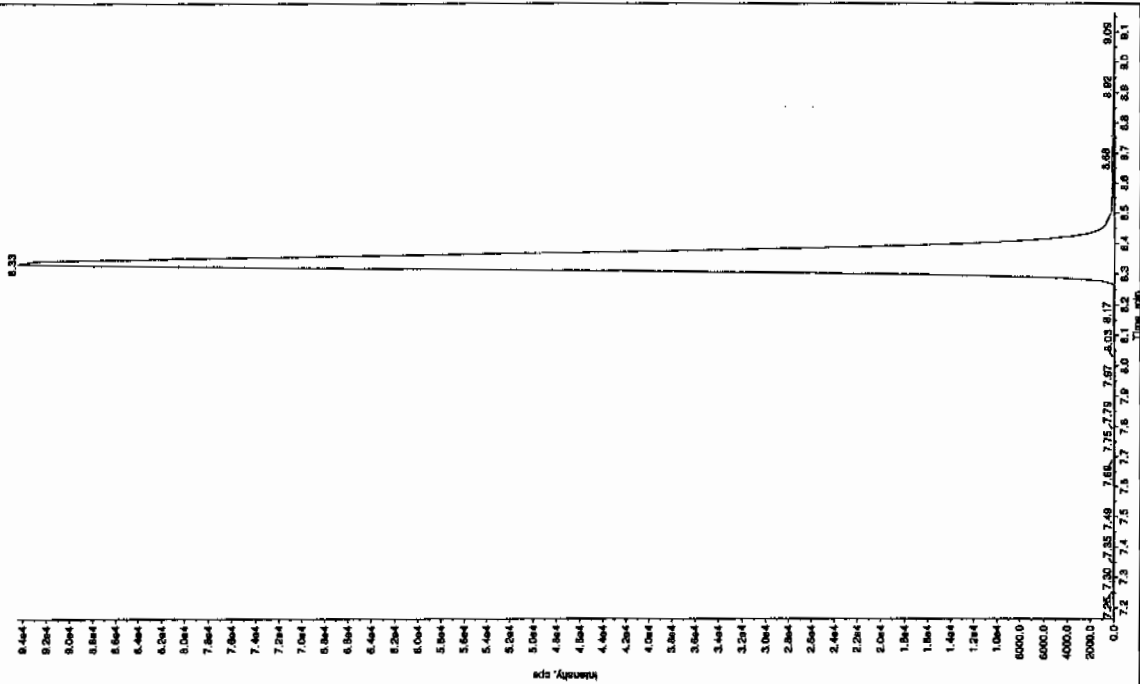
Sample Name: "24732008" Sample ID: "55503100144.wif"
Peak Name: "TATB" Mass: "257.22019 amu"
Conc: "1.0X10⁻¹²" Annotation: "1"

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/12/2010
Acq. Time: 4:56:58 AM
Modified: No



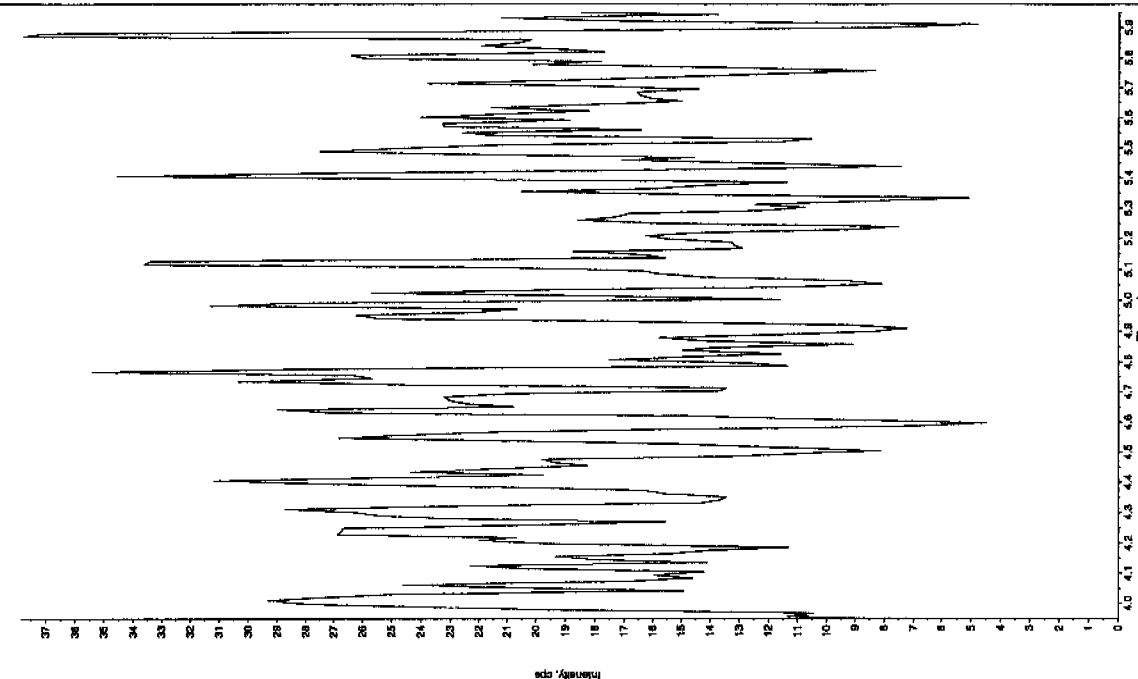
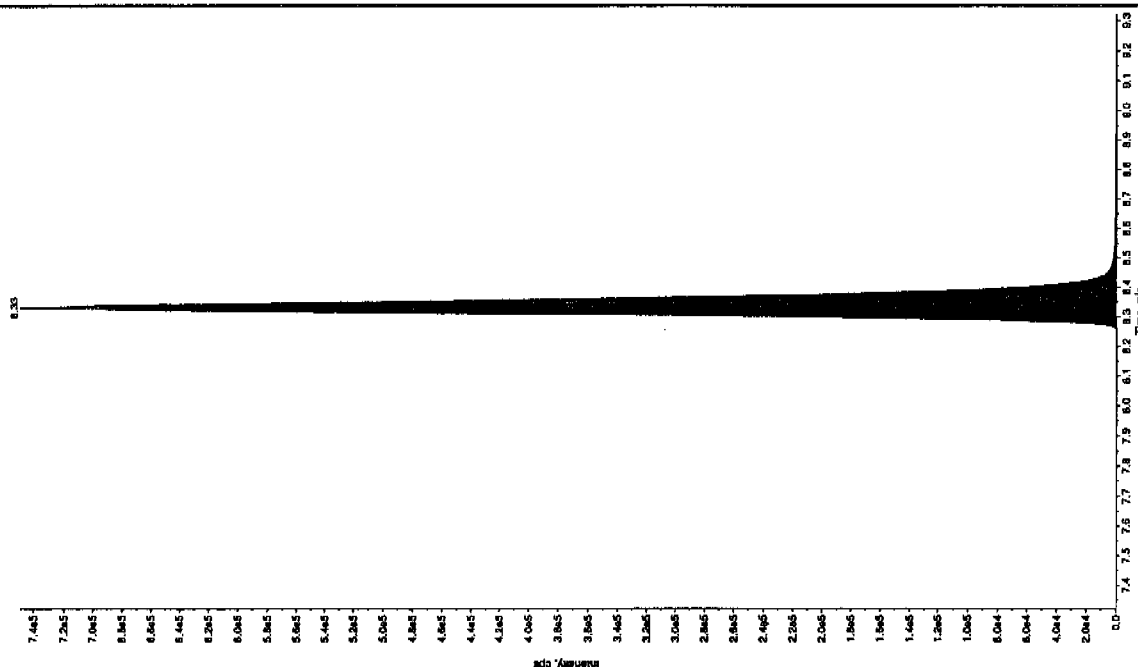
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/12/2010
Acq. Time: 4:56:58 AM
Modified: No

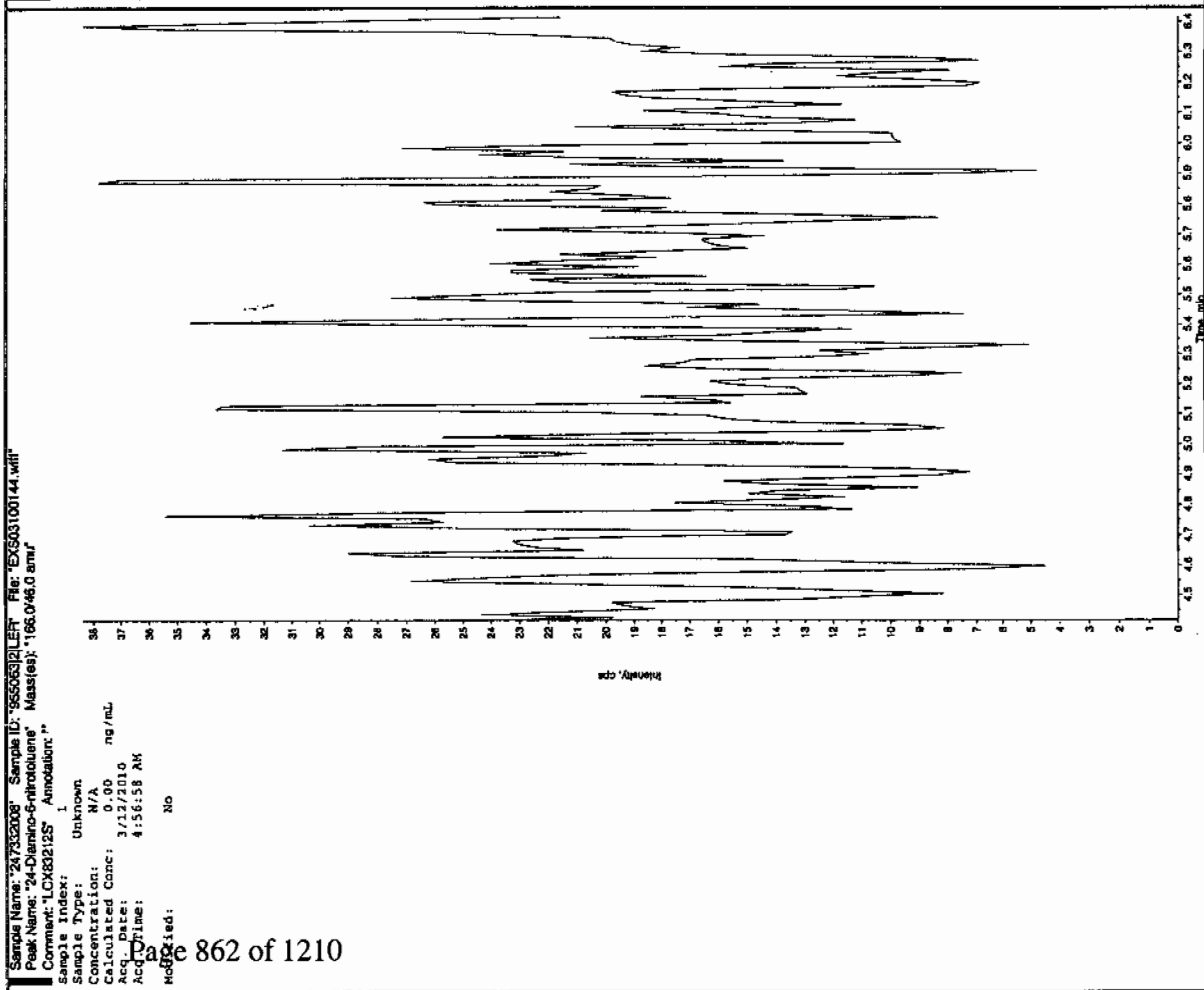
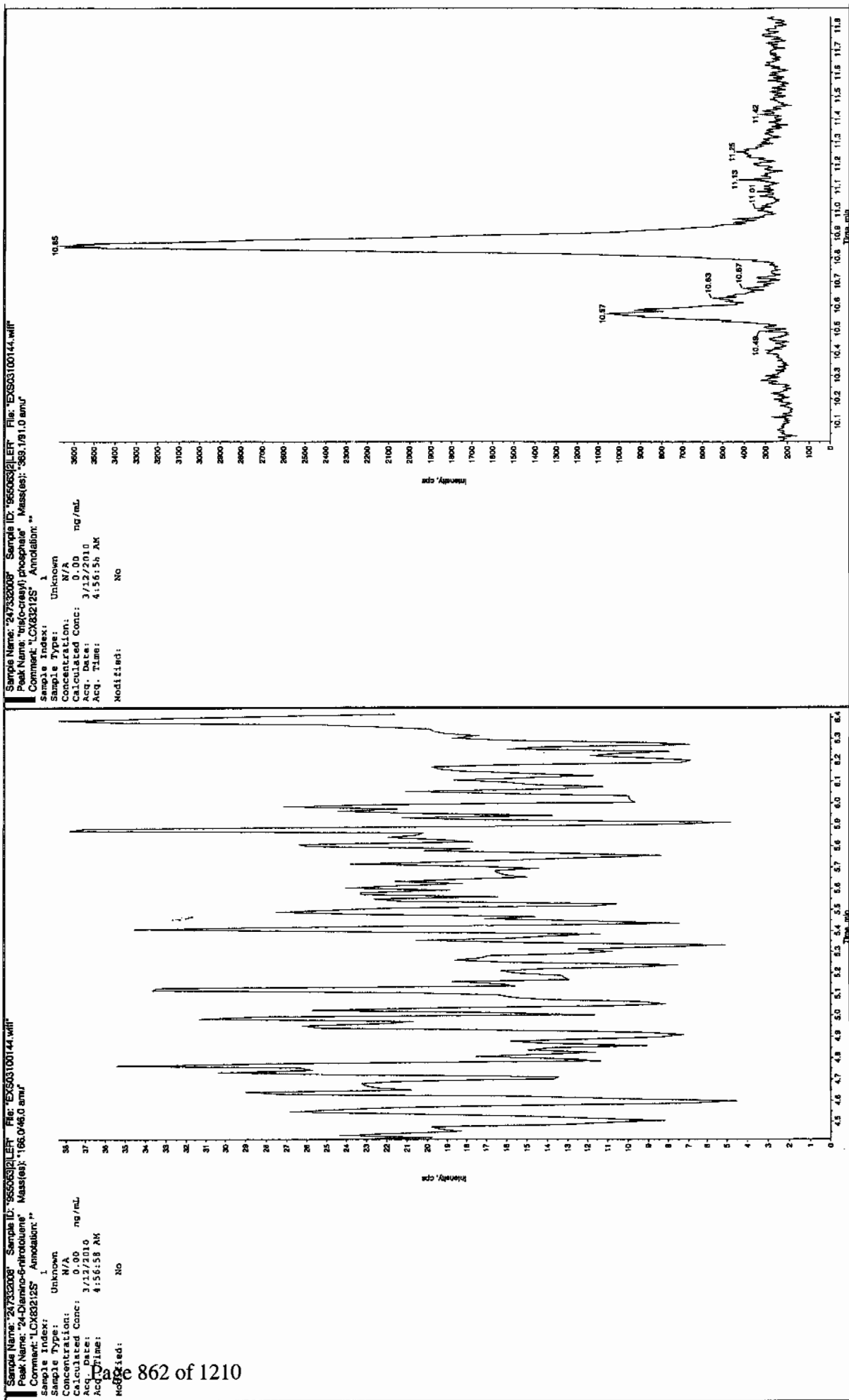
850 of 1210



3/14/10

Sample Index:	1				
Sample Name:	Unknown				
Sample Type:	Unknown				
Collection Location:					
Collection Date:	3/12/2010				
Conc:	276	ng/mL			
Acq File:	4:56:58 AM				
Mod:	No				
Proc:	Algo: InsiQuan - IQA				
Peak Height:	1460.00	cps			
Peak Width:	3.00	sec			
Peak Width:	3.00	sec			
RT:	15.0	min			
RT:	8.32	min			
Use Mediate RT:	No				
Valley					
Retention Time:	8.33	min			
Count:	2.77e+05	counts			
Start Time:	7:48:58	min			
End Time:	8:24	min			
End Time:	8.69	min			





STANDARDS DATA

**SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels**

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MINX	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1905

Lab Code: GEL

Run Date: 10-MAR-10.12-APR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Paramname	1	2	3	4	5	6	Ave RF	RSD	Q
Data File:	EXP0412003a	EXP0412004a	EXP0412005a	EXP0412006a	EXP0412007a	EXP0412008a			
1,3,5-Trinitrobenzene	4.711	4.33	4.184	4.118	4.135	4.46	4.323	5.342	
1,3-Dinitrobenzene-d4	11.467	12.345	11.86	12.536	12.341	10.015	11.761	7.996	
2,4,6-Trinitrotoluene	.41	.394	.427	.449	.461	.469	0.435	6.752	
2,4-Dinitrotoluene	.262	.241	.266	.256	.262	.279	0.261	4.785	
2,6-Dinitrotoluene	1.228	1.123	1.137	1.19	1.203	1.22	1.184	3.683	
2,6-Dinitrotoluene-d3	63.991	74.817	73.595	74.921	70.943	61.531	69.966	8.311	
2-Amino-4,6-dinitrotoluene	.484	.481	.503	.515	.535	.556	0.512	5.686	
3,4-Dinitrotoluene	1.117	.974	.984	1.041	1.027	1.044	1.031	4.983	
4-Amino-2,6-dinitrotoluene	.361	.326	.32	.335	.34	.344	0.338	4.22	
HMX	3.896	4.064	4.283	4.375	4.325	4.489	4.239	5.149	
Nitrobenzene	.565	.604	.633	.662	.625	.674	0.627	6.339	
RDX	2.18	2.427	3.051	3.081	3.073	3.36	2.862	15.868	
Tetryl	1.226	1.243	1.421	1.278	1.24	1.37	1.296	6.198	
m-Dinitrobenzene	1.304	1.349	1.33	1.336	1.312	1.391	1.337	2.342	
m-Nitrotoluene	.055	.071	.054	.053	.061	.056	0.058	11.551	
o-Nitrotoluene	.105	.086	.078	.084	.079	.088	0.087	11.254	
p-Nitrotoluene	.042	.041	.038	.043	.042	.044	0.042	5.194	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1905

Lab Code: GEL

Run Date: 10-MAR-10 12-APR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

Calibration Level:	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Data File:	EXP0412003a	EXP0412004a	EXP0412005a	EXP0412006a	EXP0412007a	EXP0412008a					
Parname:											
PETN	2009.76	4470.27	14910.6	28870.8	46927.1	49397.1	1.007	-0.00022	9.637	.9994	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.999)

* Values outside of QC Limit

Quantify Calibration Report

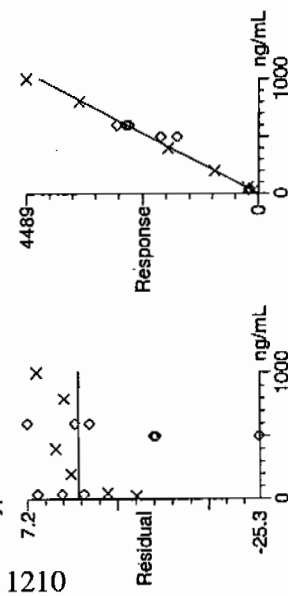
GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 1 of 9

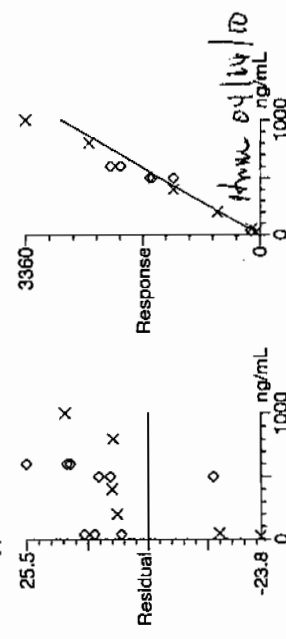
Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\041210expa.mdb, Time: Tue Apr 13 09:03:30 2010
Calibration: Untitled, Time: Tue Apr 13 11:12:22 2010

Compound name: HMX
Response Factor: 4.23867
RRF SD: 0.218263, % Relative SD: 5.14933
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



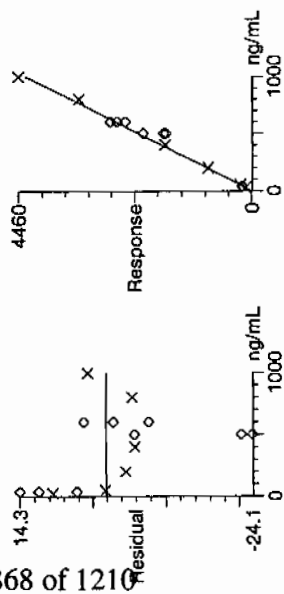
Compound name: RDX
Response Factor: 2.8622
RRF SD: 0.454164, % Relative SD: 15.8676
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



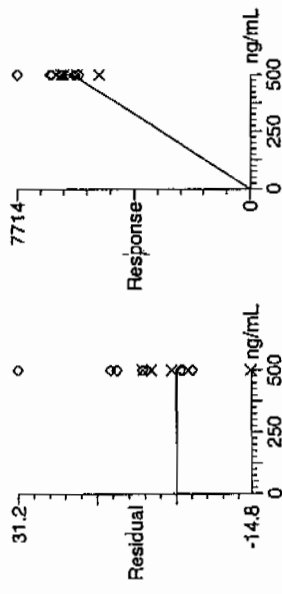
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 135-Trinitrobenzene
Response Factor: 4.32298
RRF SD: 0.230915, % Relative SD: 5.34157
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



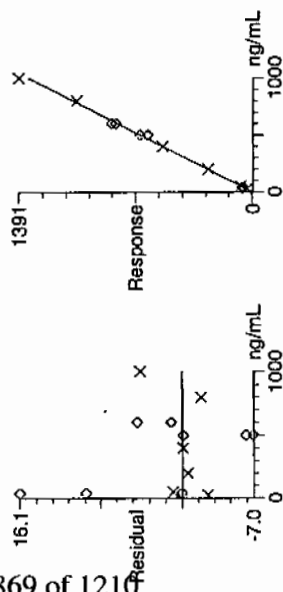
Compound name: 13-Dinitrobenzene-d4
Response Factor: 11.7607
RRF SD: 0.940441, % Relative SD: 7.99645
Response type: External Std, Area
Curve type: RF



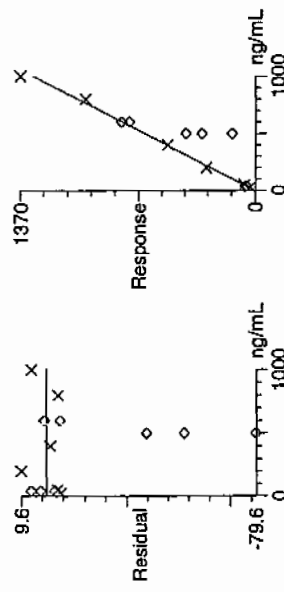
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 13-Dinitrobenzene
 Response Factor: 1.33707
 RRF SD: 0.0313205, % Relative SD: 2.34247
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: Tetra
 Response Factor: 1.29627
 RRF SD: 0.0803478, % Relative SD: 6.19837
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

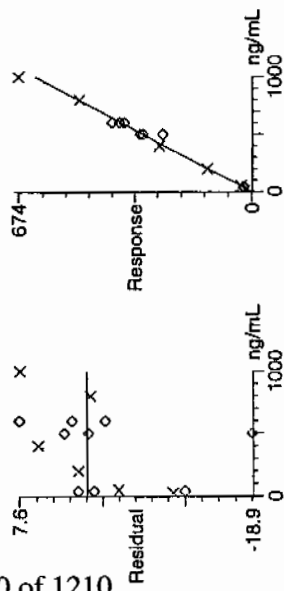
Compound name: Nitrobenzene

Response Factor: 0.627297

RRF SD: 0.0397666, % Relative SD: 6.33936

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



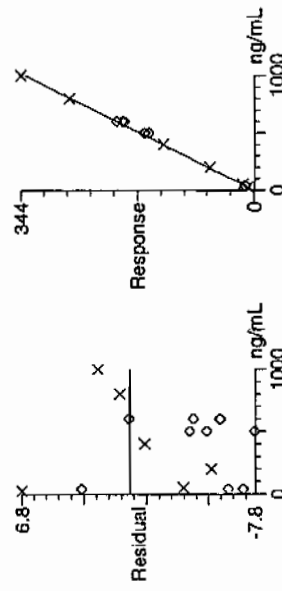
Compound name: 4-Amino-26-dinitrotoluene

Response Factor: 0.337763

RRF SD: 0.014254, % Relative SD: 4.22013

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

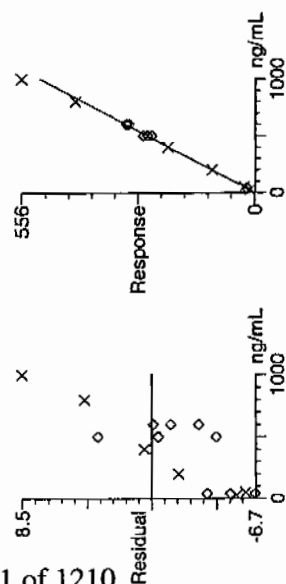
Curve type: RF



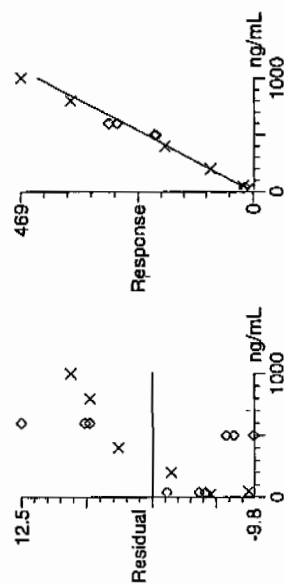
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.512197
 RRF SD: 0.0291218, % Relative SD: 5.68567
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



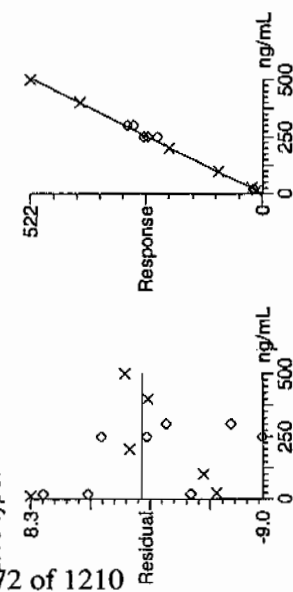
Compound name: 246-Trinitrotoluene
 Response Factor: 0.435033
 RRF SD: 0.0293746, % Relative SD: 6.75226
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



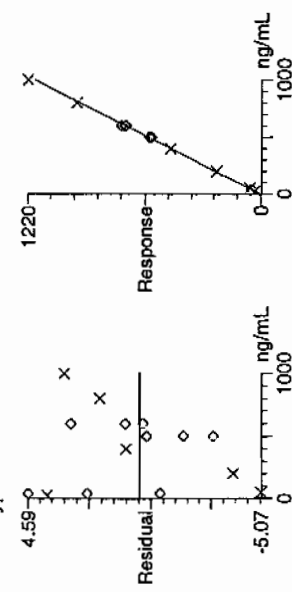
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 34-dinitrotoluene
 Response Factor: 1.03113
 RRF SD: 0.0513762, % Relative SD: 4.98253
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



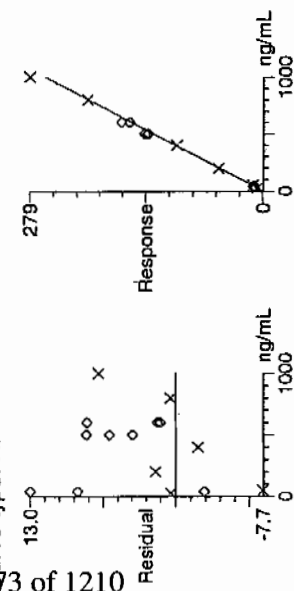
Compound name: 26-dinitrotoluene
 Response Factor: 1.18354
 RRF SD: 0.0435946, % Relative SD: 3.68342
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



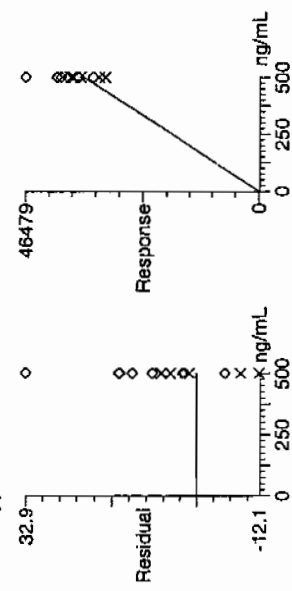
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.261004
RRF SD: 0.0124888, % Relative SD: 4.7849
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



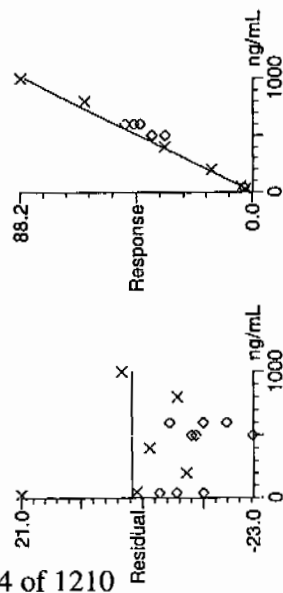
Compound name: 26-dinitrotoluene-d3
Response Factor: 69.9664
RRF SD: 5.81467, % Relative SD: 8.31066
Response type: External Std, Area
Curve type: RF



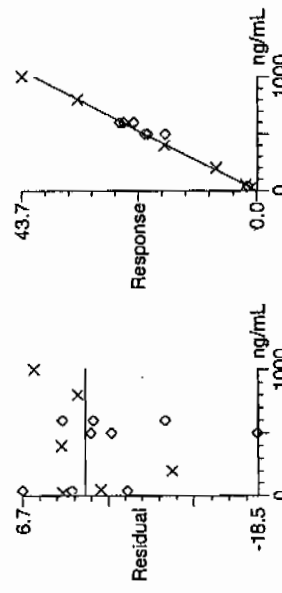
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qtd, Time: Tue Apr 13 11:12:22 2010

Compound name: 2-Nitrotoluene
 Response Factor: 0.0865882
 RRF SD: 0.00974436, % Relative SD: 11.2537
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: 4-Nitrotoluene
 Response Factor: 0.0414794
 RRF SD: 0.00215463, % Relative SD: 5.19445
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF

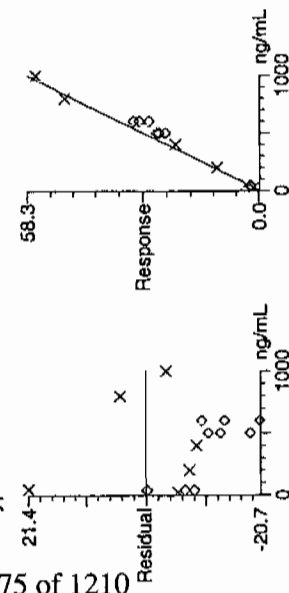


Quantify Calibration Report

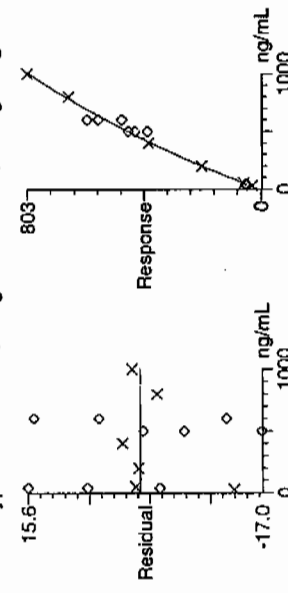
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qid, Time: Tue Apr 13 11:12:22 2010

Compound name: 3-Nitrotoluene
 Response Factor: 0.058302
 RF SD: 0.00673426, % Relative SD: 11.5507
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: PETN
 Coefficient of Determination: 0.999447
 Calibration curve: $-0.000220026 * x^2 + 1.0065 * x + 9.6373$
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0412010a

Analysis Date: 12-APR-10 20:06

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	600	606.979	101	
m-Nitrotoluene	600	475.553	79	*
o-Nitrotoluene	600	492.414	82	
p-Nitrotoluene	600	547.628	91	
1,3,5-Trinitrobenzene	600	593.013	99	
1,3-Dinitrobenzene-d4	500	528.009	106	
2,4,6-Trinitrotoluene	600	674.734	112	
2,4-Dinitrotoluene	600	608.204	101	
2,6-Dinitrotoluene	600	599.148	100	
2,6-Dinitrotoluene-d3	500	574.331	115	
2-Amino-4,6-dinitrotoluene	600	592.511	99	
3,4-Dinitrotoluene	300	280.228	93	
4-Amino-2,6-dinitrotoluene	600	600.345	100	
HMX	600	642.971	107	
Nitrobenzene	600	610.074	102	
PETN	600	527.609	88	
RDX	600	753.124	126	*
Tetryl	600	604.19	101	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412010a

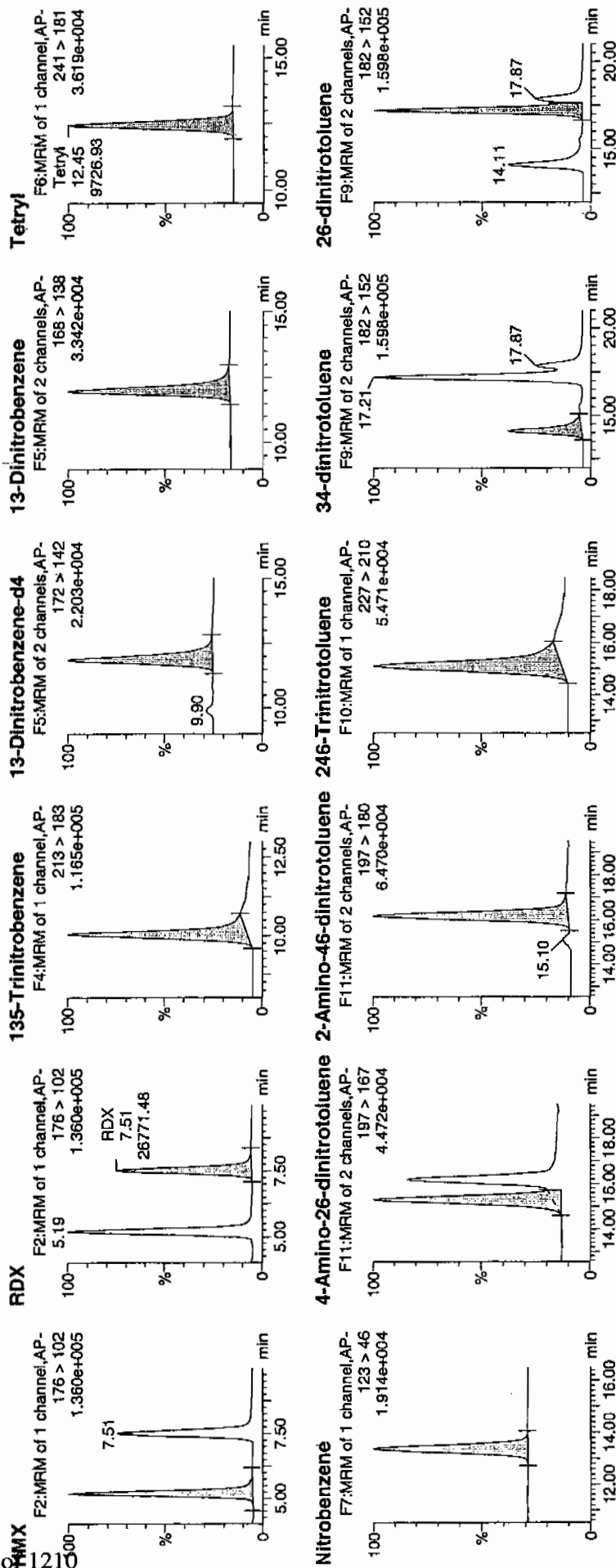
Date: 12-Apr-2010

Time: 20:06:00

ID: WXX100412-07ICV

Cal: 1:1,B

10/17
4/13/10



4/13/10

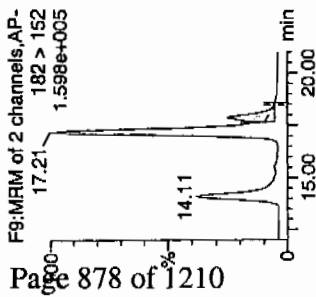
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

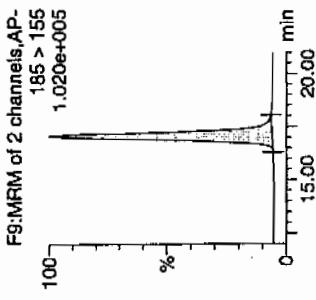
Printed: Tue Apr 13 11:14:26 2010, Page 20 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

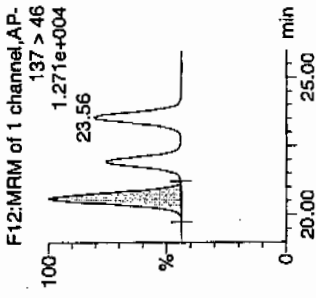
24-dinitrotoluene



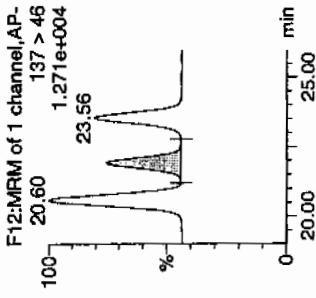
26-dinitrotoluene-d3



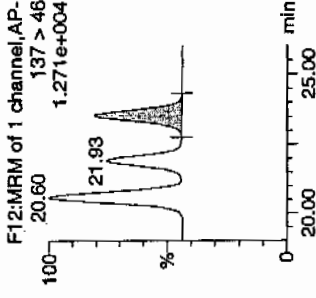
2-Nitrotoluene



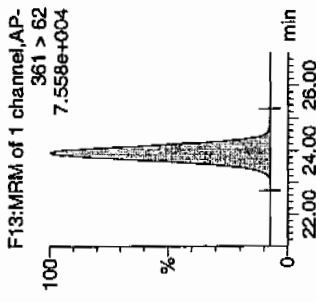
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	Rec	Dev	SSIN
WXX100412-07ICV	HMZ	176 > 102	5.19	33847.480	6209.775	33847.480	2725.339	bb			642.9709	107.2	7.2	3326.4
WXX100412-07ICV	RDX	176 > 102	7.51	26771.480	6209.775	26771.480	2155.592	bb			753.1238	125.5	25.5	2433.7
WXX100412-07ICV	135-Trinitrobenzene	213 > 183	10.03	31838.539	6209.775	31838.539	2563.582	bb			593.0128	98.8	-1.2	1378.9
WXX100412-07ICV	13-Dinitrobenzene-d4	172 > 142	11.86	6209.775	6209.775	6209.775	6209.775	bb			528.0094	105.6	5.6	836.0
WXX100412-07ICV	13-Dinitrobenzene	168 > 138	11.97	10079.378	6209.775	10079.378	811.574	bb			806.9793	101.2	1.2	1025.2
WXX100412-07ICV	Tetryl	241 > 181	12.45	9726.927	6209.775	9726.927	783.195	bb			604.1896	100.7	0.7	1063.3
WXX100412-07ICV	Nitrobenzene	123 > 46	13.39	4752.931	6209.775	4752.931	382.698	bb			610.0743	101.7	1.7	361.4
WXX100412-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.31	16296.482	40183.859	16296.482	202.774	MM	13-Apr-10	11:01:46	600.3448	100.1	0.1	337.8
WXX100412-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.18	24390.191	40183.859	24390.191	303.482	bb			592.5107	98.8	-1.2	968.8
WXX100412-07ICV	246-Trinitrotoluene	227 > 210	15.09	23590.451	40183.859	23590.451	293.531	bb			674.7339	112.5	12.5	1164.7
WXX100412-07ICV	34-dinitrotoluene	182 > 152	14.11	23222.357	40183.859	23222.357	288.951	bb			280.2284	93.4	-6.6	253.4
WXX100412-07ICV	26-dinitrotoluene	182 > 152	17.21	56989.934	40183.859	56989.934	709.115	MM	13-Apr-10	11:06:55	599.1482	99.9	-0.1	713.0
WXX100412-07ICV	24-dinitrotoluene	182 > 152	17.87	12757.857	40183.859	12757.857	158.744	MM	13-Apr-10	11:09:56	608.2038	101.4	1.4	150.4
WXX100412-07ICV	26-dinitrotoluene-d3	185 > 155	17.06	40183.859	40183.859	40183.859	40183.859	bb			574.3312	114.9	14.9	5693.5
WXX100412-07ICV	2-Nitrotoluene	137 > 46	20.60	3426.659	40183.859	3426.659	42.637	bb			492.4141	82.1	-17.9	1017.5
WXX100412-07ICV	4-Nitrotoluene	137 > 46	21.93	1825.573	40183.859	1825.573	22.715	bb			547.6276	91.3	-8.7	574.9
WXX100412-07ICV	3-Nitrotoluene	137 > 46	23.56	2228.251	40183.859	2228.251	27.726	bb			475.5529	79.3	-20.7	669.8
WXX100412-07ICV	PETN	361 > 62	23.94	38530.590	40183.859	38530.590	479.429	bb			527.6090	87.9	-12.1	6724.3

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/12/10
 Time of Injection: 2006
 Standard Number: WXX100412-07ICV
 Data File: EXP0412010a

HMX	107.2
RDX	125.5
135-TNB	98.8
13-DNB	101.2
Tetryl	100.7
Nitrobenzene	101.7
4A-26-DNT	100.1
2A-46-DNT	98.8
246-TNT	112.5
34-DNT(surr)	93.4
26-DNT	99.9
24-DNT	101.4
2-NT	82.1
4-NT	91.3
3-NT	79.3
PETN	87.9
Total	1581.8

*MTT
4/13/10*

Average

98.9

Amuc 04/14/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1905

Lab Code: GEL

Run Date: 10-MAR-10 12-APR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8221A Modified

HPLC Column: YMC J-Sphere ODS-H8O

Calibration Type: Average RF

	19	20	21	22	23	25	Ave RF	RSD	Q
Calibration Level:	EXS03100003.w	EXS03100004.w	EXS03100005.w	EXS03100006.w	EXS03100007.w	EXS03100009.w			
Data File:									
Parname									
2,4-Diamino-6-nitrotoluene	1090	1070	1100	1030	1110	938	1056.333	6.07	
2,6-Diamino-4-nitrotoluene	1620	1550	1540	1570	1520	1380	1530.000	5.41	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1905

Lab Code: GEL

Run Date: 10-MAR-10.12-APR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC I-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	25	X	X^2	Intercept	COD	Q
Data File:	EXS03100003.wif	EXS03100004.wif	EXS03100005.wif	EXS03100006.wif	EXS03100007.wif	EXS03100009.wif					
Parname:											
3,4-Dinitrotoluene	269000	536000	1300000	2570000	3200000	9020000	22800	10300	-1.34	1	
3,5-Dinitroaniline	414000	823000	2000000	3900000	4810000	12200000	189000	6930	-459	.9986	
TATB	64800	130000	329000	728000	1060000	2830000	-15900	1460	-.021	.9999	
tris(o-cresyl) phosphate	689000	1380000	3340000	6340000	9120000	20300000	65000	13300	-1.59	1	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.990)

* Values outside of QC Limit

031010ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	weighting	None	Iterate No
a0	-1.59e+004			
a1	1.46e+003			
a2	-0.0212			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	weighting	None	Iterate No
a0	1.89e+005			
a1	6.93e+003			
a2	-0.459			
Correlation coefficient 0.9986				
Use Area				

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	weighting	None	Iterate No
a0	2.28e+004			
a1	1.03e+004			
a2	-1.34			
Correlation coefficient 1.0000				
Use Area				

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Mean Response Factor	weighting	None	Iterate No
Factor	1.53e+003			
Standard deviation	82.8			
%RSD	5.41			
Use Area				

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Jan 3/13/10

4/11/10 03/15/10

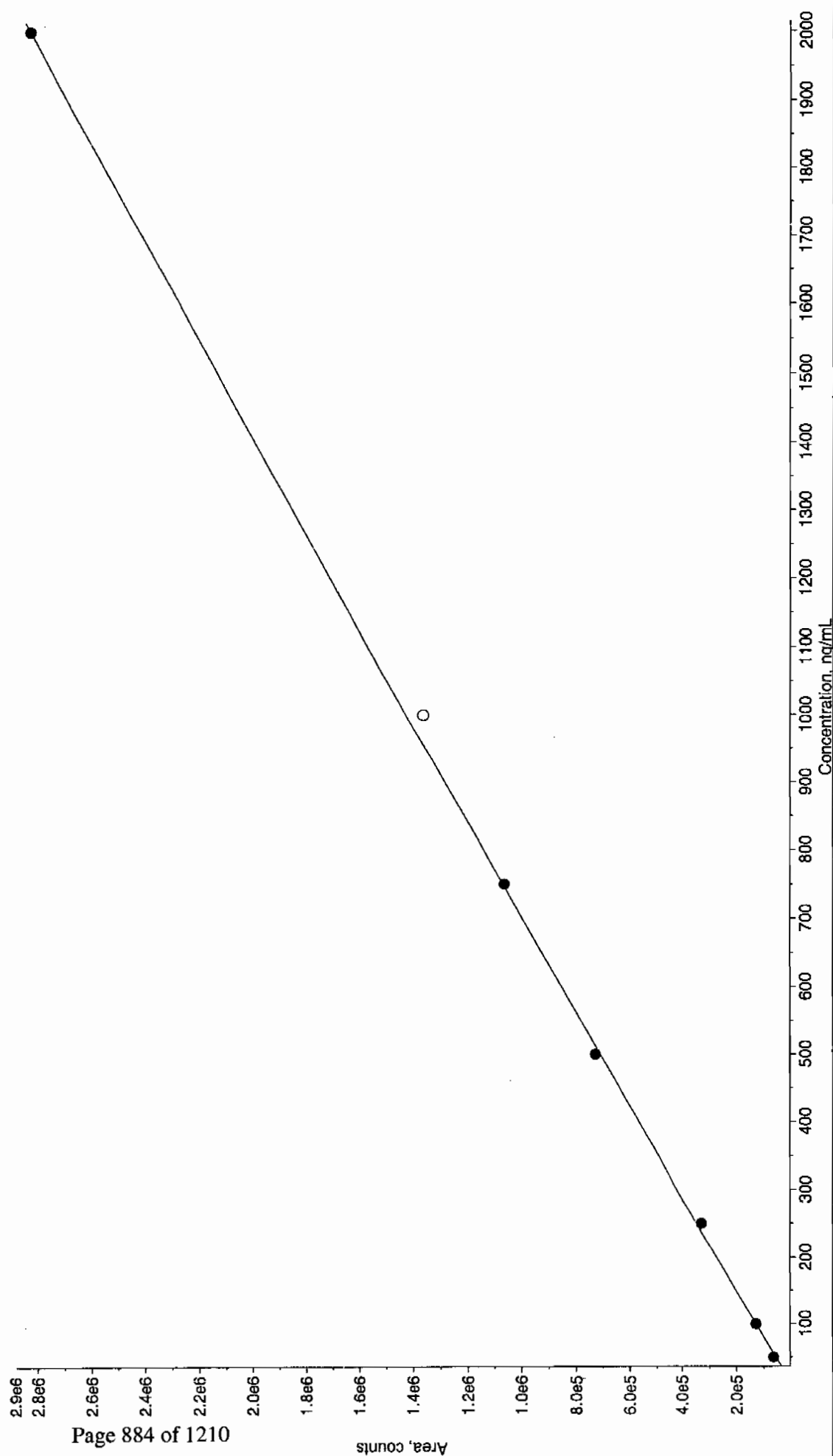
031010ICAL
None Iterate No

Fit Mean Response Factor Weighting
Factor 1.06e+003
Standard deviation 64.2
%RSD 6.07
Use Area

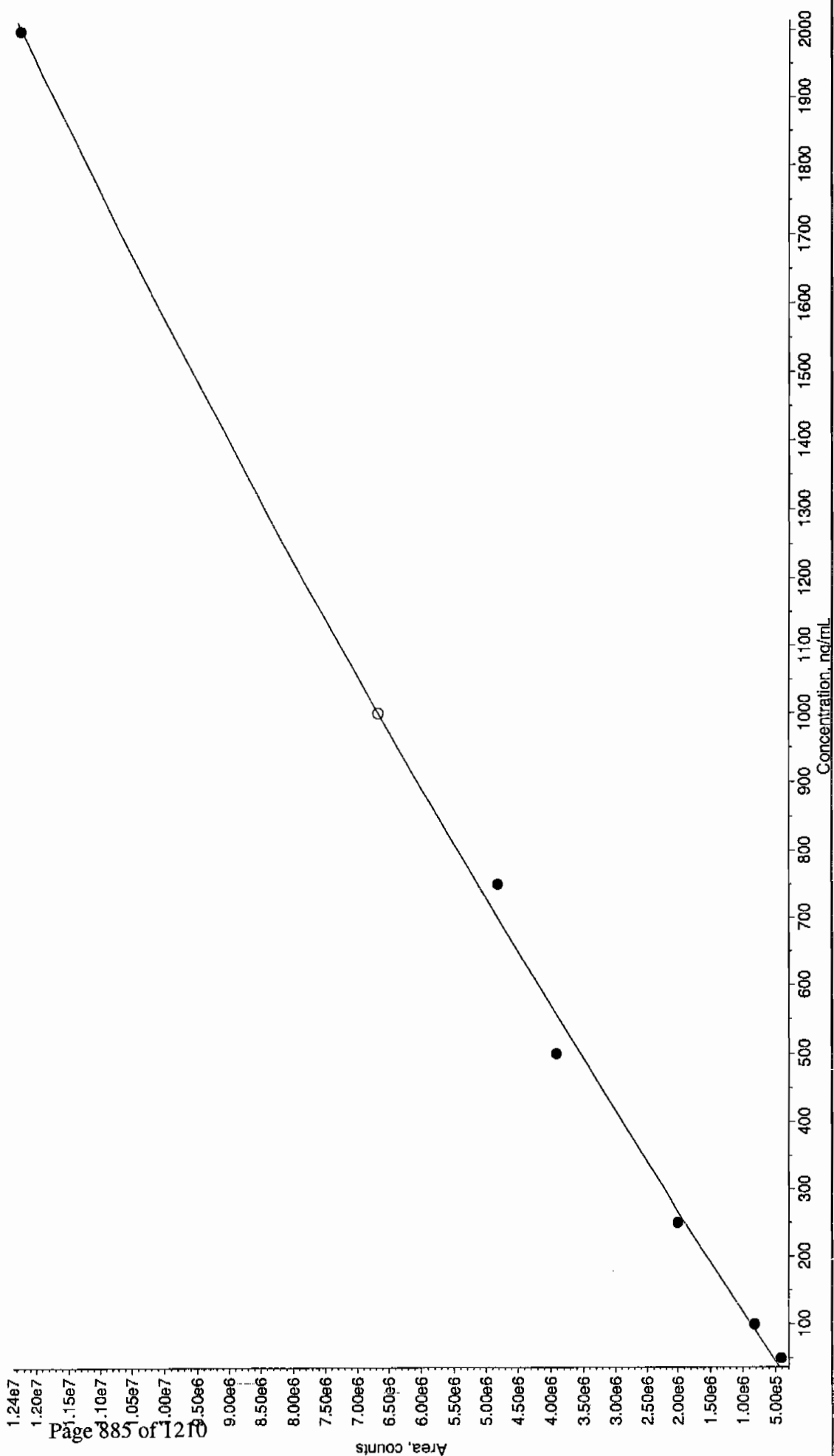
Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

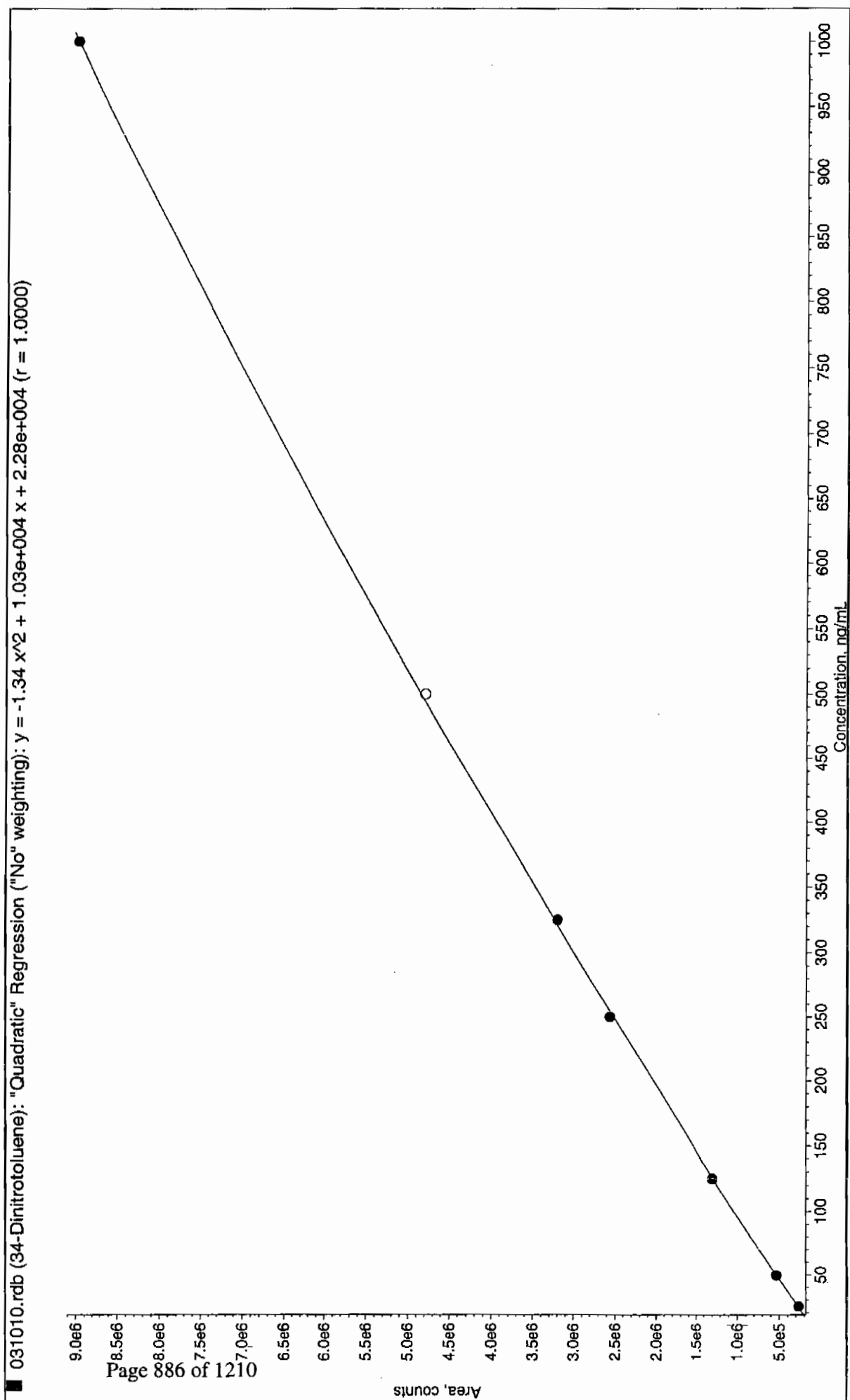
Fit Quadratic weighting None Iterate No
a0 6.5e+004
a1 1.33e+004
a2 -1.59
Correlation coefficient 1.0000
Use Area

031010.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = -0.0212 x^2 + 1.46e+003 x + -1.59e+004$ ($r = 0.9999$)

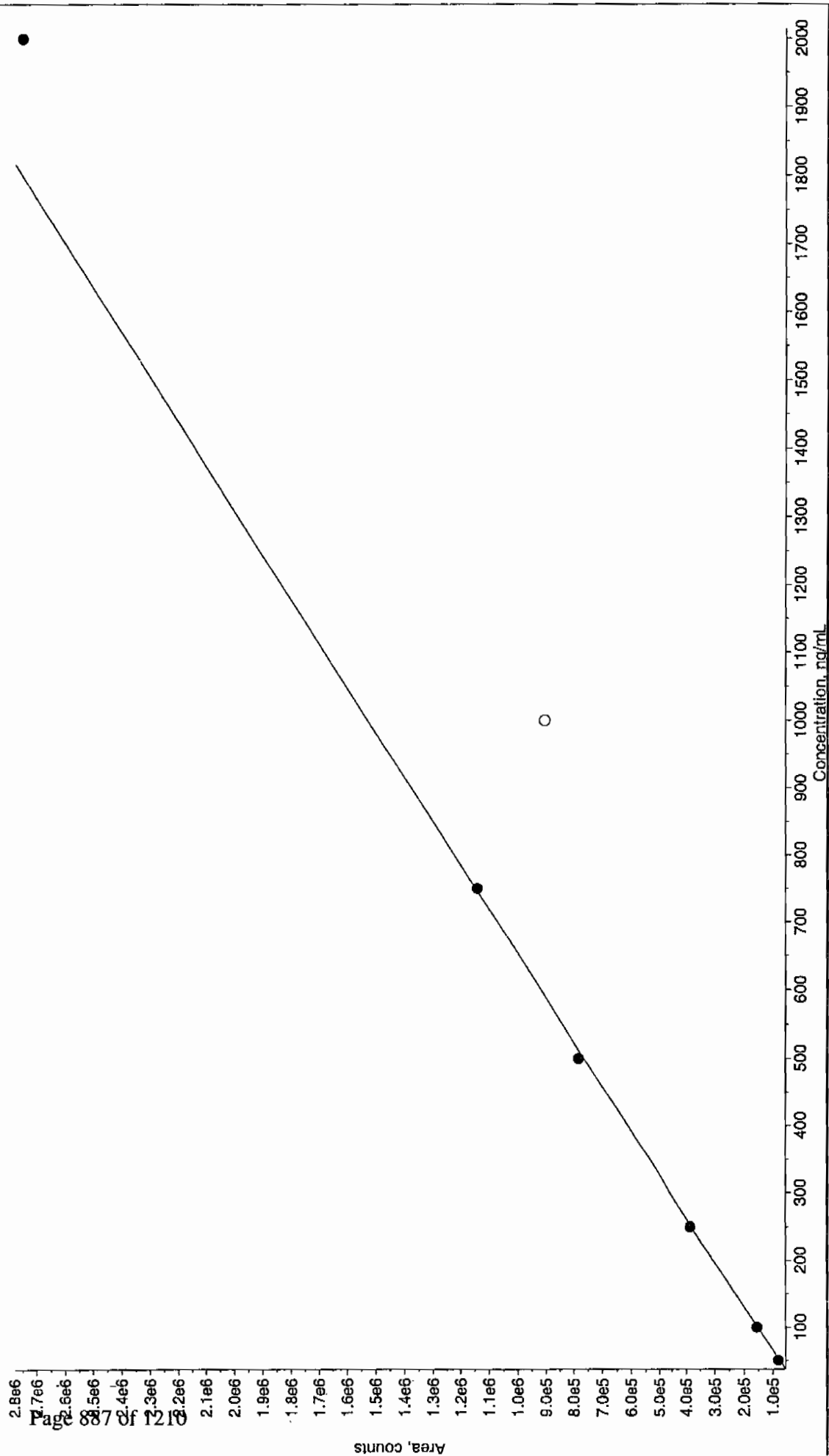


031010.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.459 x^2 + 6.93e+003 x + 1.89e+005$ ($r = 0.9986$)



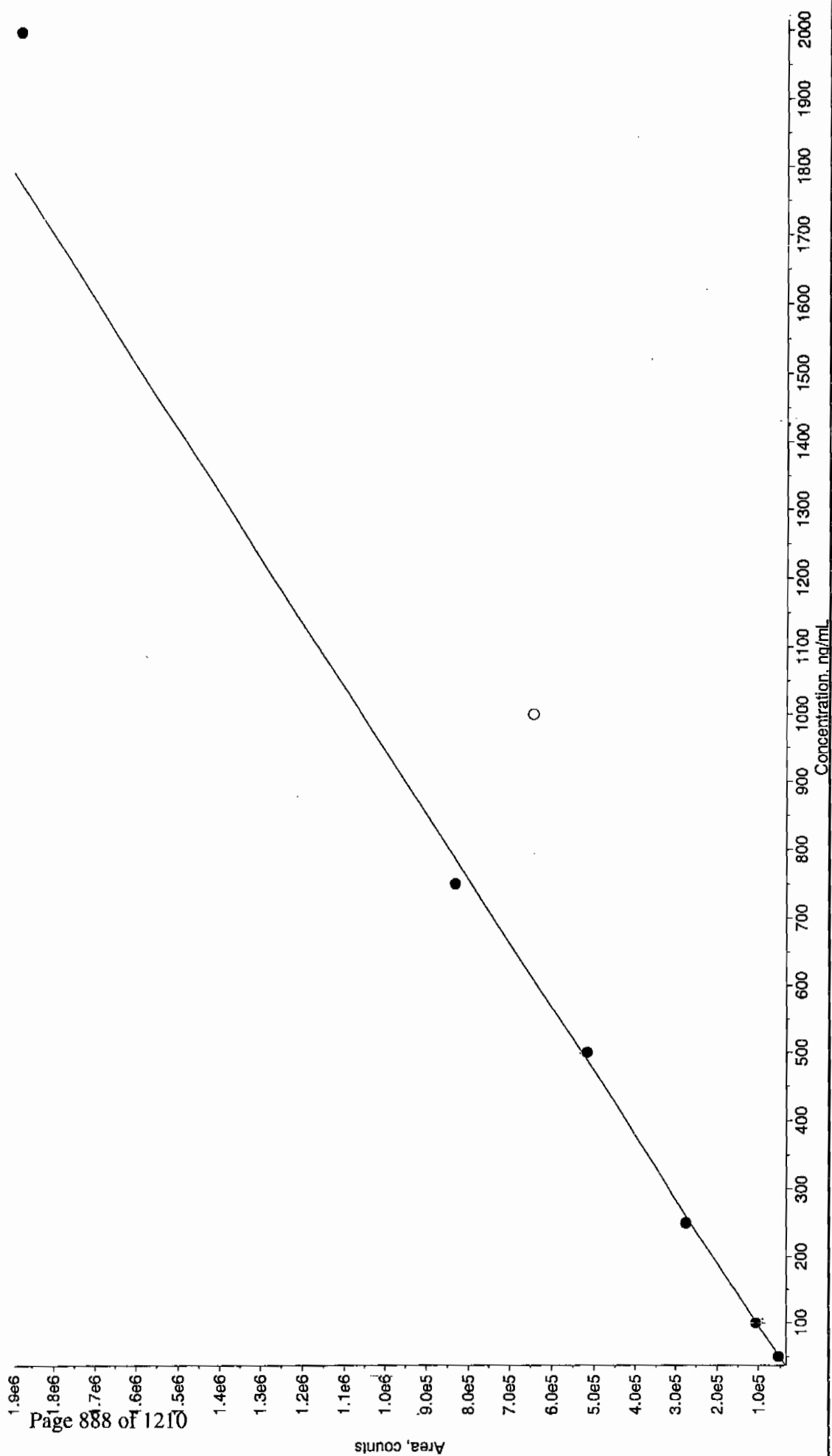


031010.rdb (26-Diamino-4-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.53e+003 \times (\text{std. dev.} = 82.8)$

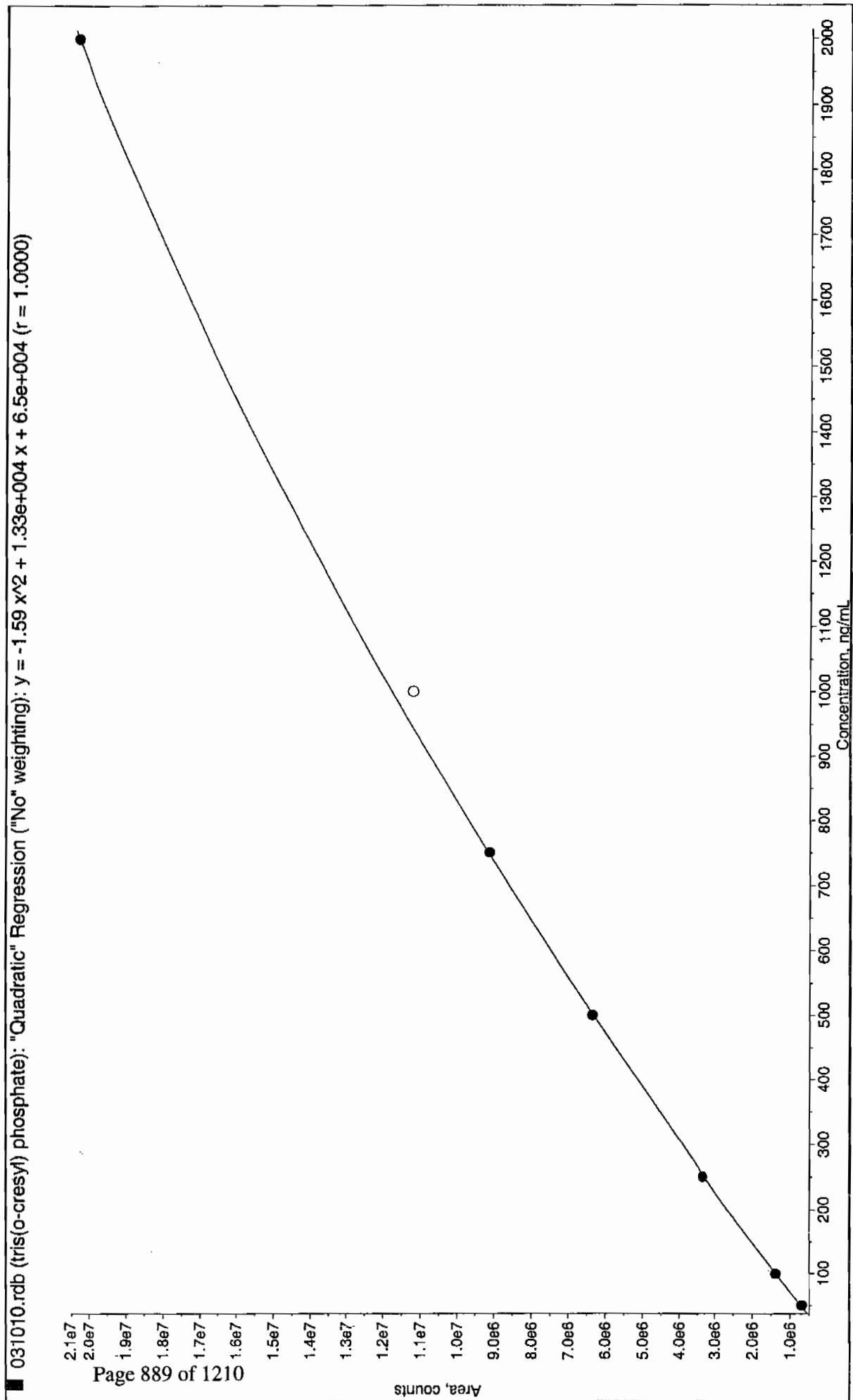


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

031010.rdb (24-Diamino-6-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.06e+003 \times (\text{std. dev.} = 64.2)$



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03100011.wiff

Analysis Date: 10-MAR-10 18:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	506	101	
2,6-Diamino-4-nitrotoluene	500	502	100	
3,4-Dinitrotoluene	250	243	97	
3,5-Dinitroaniline	500	527	105	
TATB	500	461	92	
tris(o-cresyl) phosphate	500	483	97	

Recovery Limits:

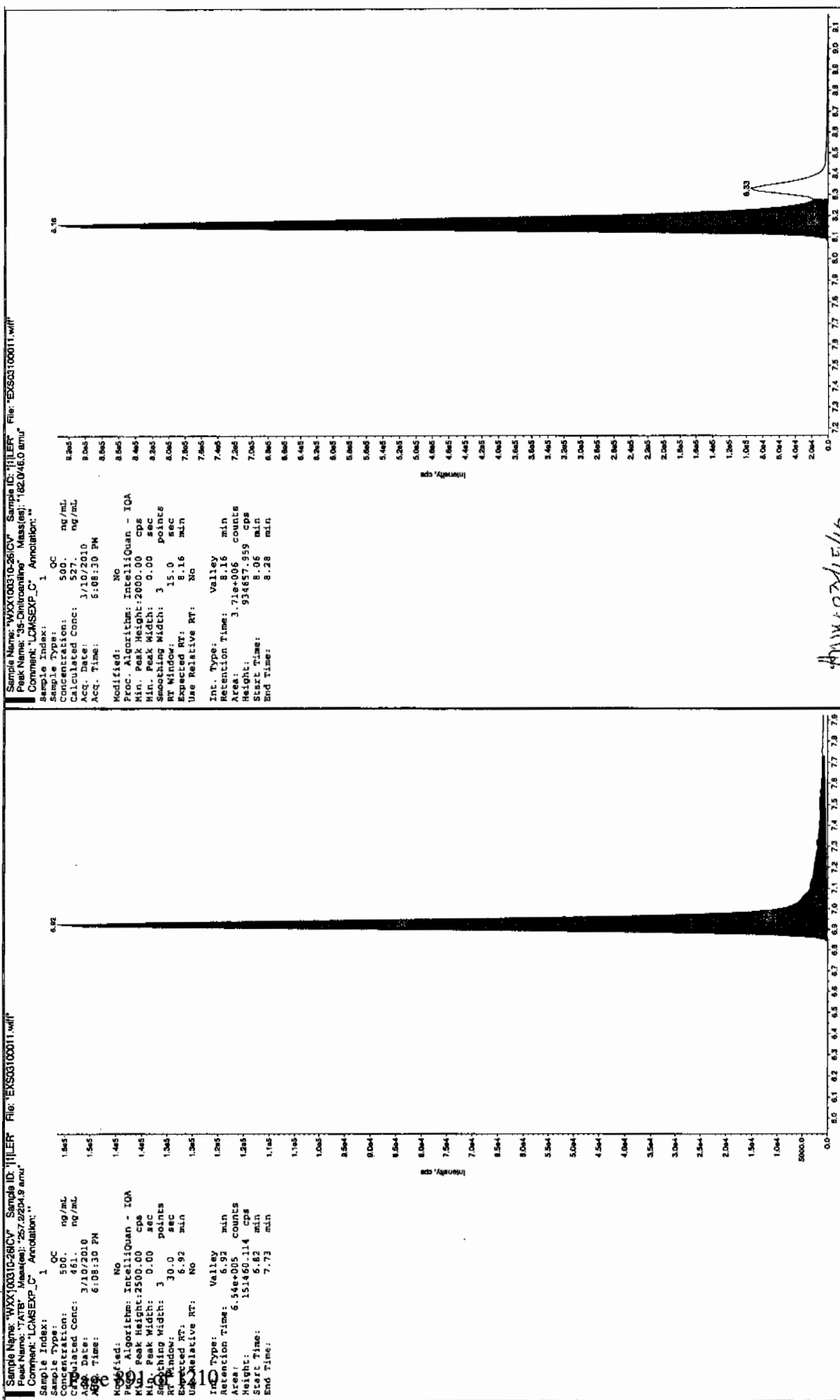
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

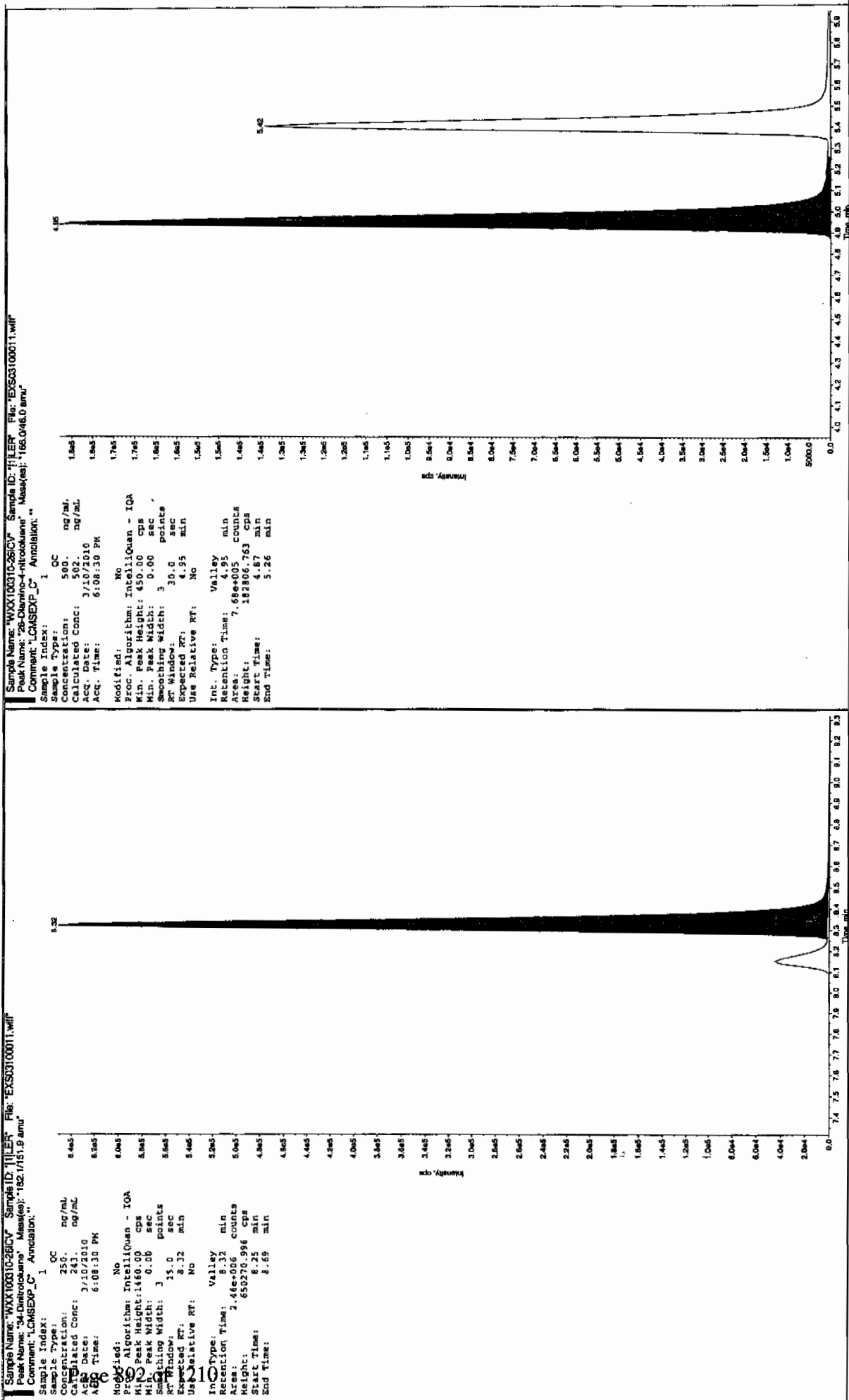
Column used to flag Recovery outside of Limits

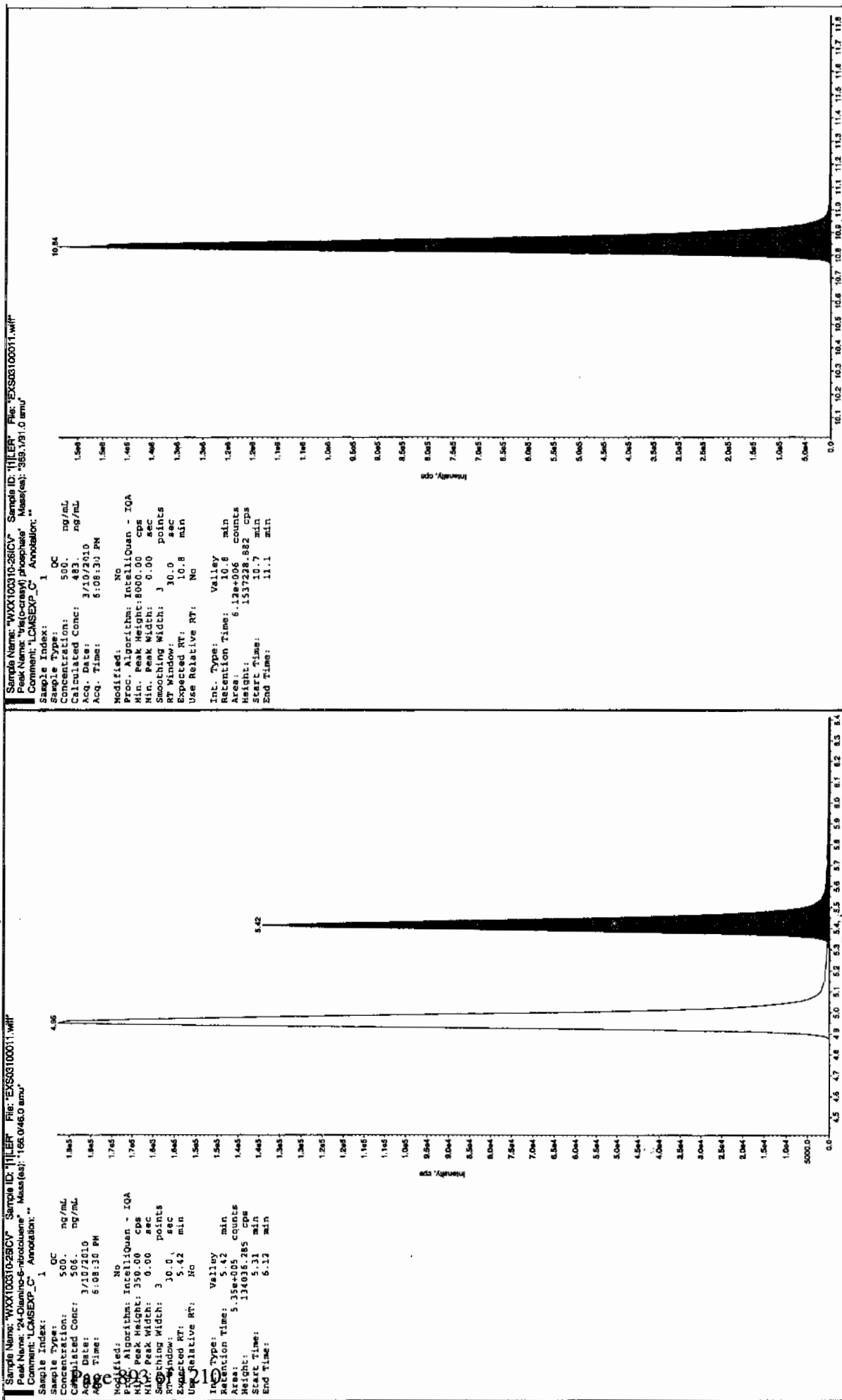
* Value outside of Recovery Limits

Lat 3/13/10



HW-03/15/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0412012a

Analysis Date: 12-APR-10 21:04

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	40	40.573	101	
1,3,5-Trinitrobenzene	40	42.014	105	
1,3-Dinitrobenzene-d4	500	533.484	107	
2,4,6-Trinitrotoluene	40	37.92	95	
2,4-Dinitrotoluene	40	39.009	98	
2,6-Dinitrotoluene	40	41.835	105	
2,6-Dinitrotoluene-d3	500	543.299	109	
2-Amino-4,6-dinitrotoluene	40	37.957	95	
3,4-Dinitrotoluene	20	20.822	104	
4-Amino-2,6-dinitrotoluene	40	41.22	103	
HMX	40	40.936	102	
Nitrobenzene	40	40.412	101	
PETN	40	38.904	97	
RDX	40	42.279	106	
Tetryl	40	38.735	97	
m-Dinitrobenzene	40	40.013	100	
m-Nitrotoluene	40	37.251	93	
o-Nitrotoluene	40	34.615	87	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0412012a

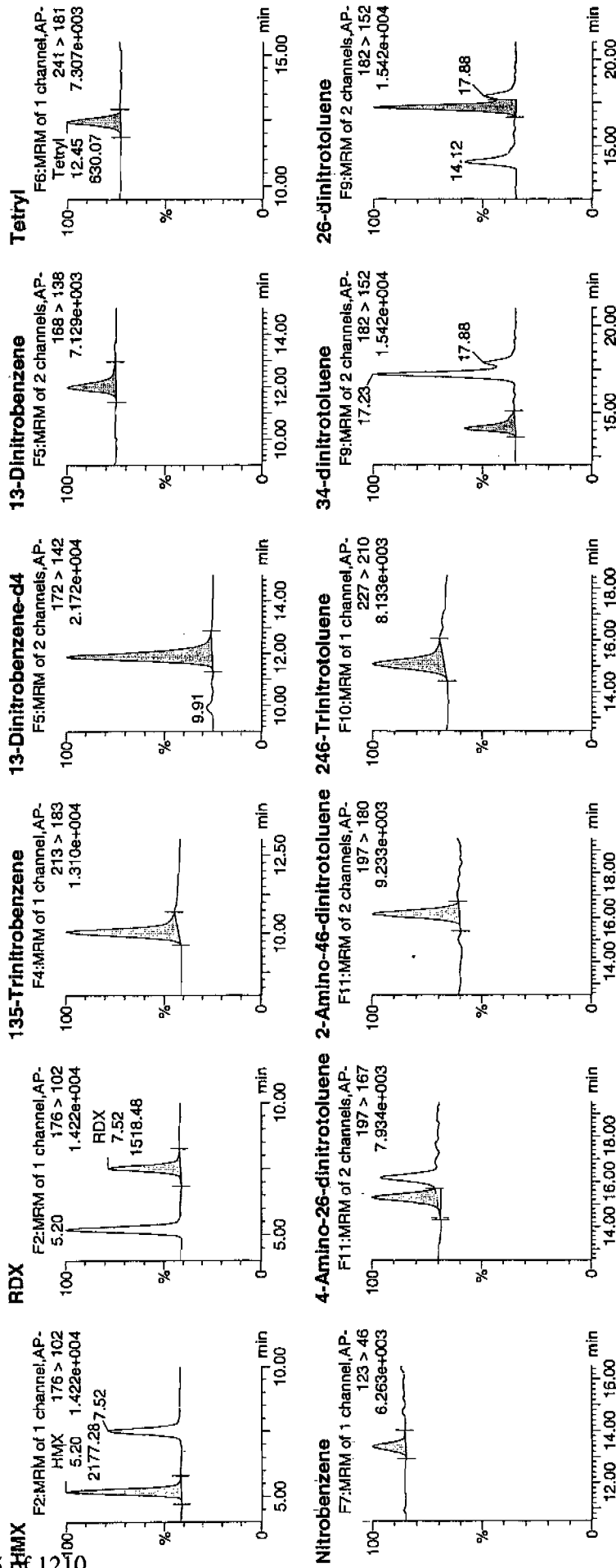
Date: 12-Apr-2010

Time: 21:04:58

ID: WXX100412-08CRI

Ratio: 1:1,C

WXX
4/13/10



WXX
4/14/10

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/12/10
 Time of Injection 2104
 Standard Number WXX100412-08CRI
 Data File EXP0412012a

HMX	102.3
RDY	105.7
135-TNB	105.0
13-DNB	100.0
Tetryl	96.8
Nitrobenzene	101.0
4A-26-DNT	103.0
2A-46-DNT	94.9
246-TNT	94.8
34-DNT(surr)	104.1
26-DNT	104.6
24-DNT	97.5
2-NT	86.5
4-NT	101.4
3-NT	93.1
PETN	97.3

*mtt
4/13/10*

Total 1588.0

Home 04/14/10

Average 99.3

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0412023a

Analysis Date: 13-APR-10 02:29

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	557.713	93	
1,3-Dinitrobenzene-d4	500	483.478	97	
2,4,6-Trinitrotoluene	600	638.191	106	
2,4-Dinitrotoluene	600	647.757	108	
2,6-Dinitrotoluene	600	603.464	101	
2,6-Dinitrotoluene-d3	500	472.429	94	
2-Amino-4,6-dinitrotoluene	600	581.719	97	
3,4-Dinitrotoluene	300	294.567	98	
4-Amino-2,6-dinitrotoluene	600	565.953	94	
HMX	600	591.074	99	
Nitrobenzene	600	587.411	98	
PETN	600	688.871	115	
RDX	600	698.421	116	
Tetryl	600	569.67	95	
m-Dinitrobenzene	600	606.197	101	
m-Nitrotoluene	600	540.313	90	
o-Nitrotoluene	600	558.159	93	
p-Nitrotoluene	600	614.491	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412023a

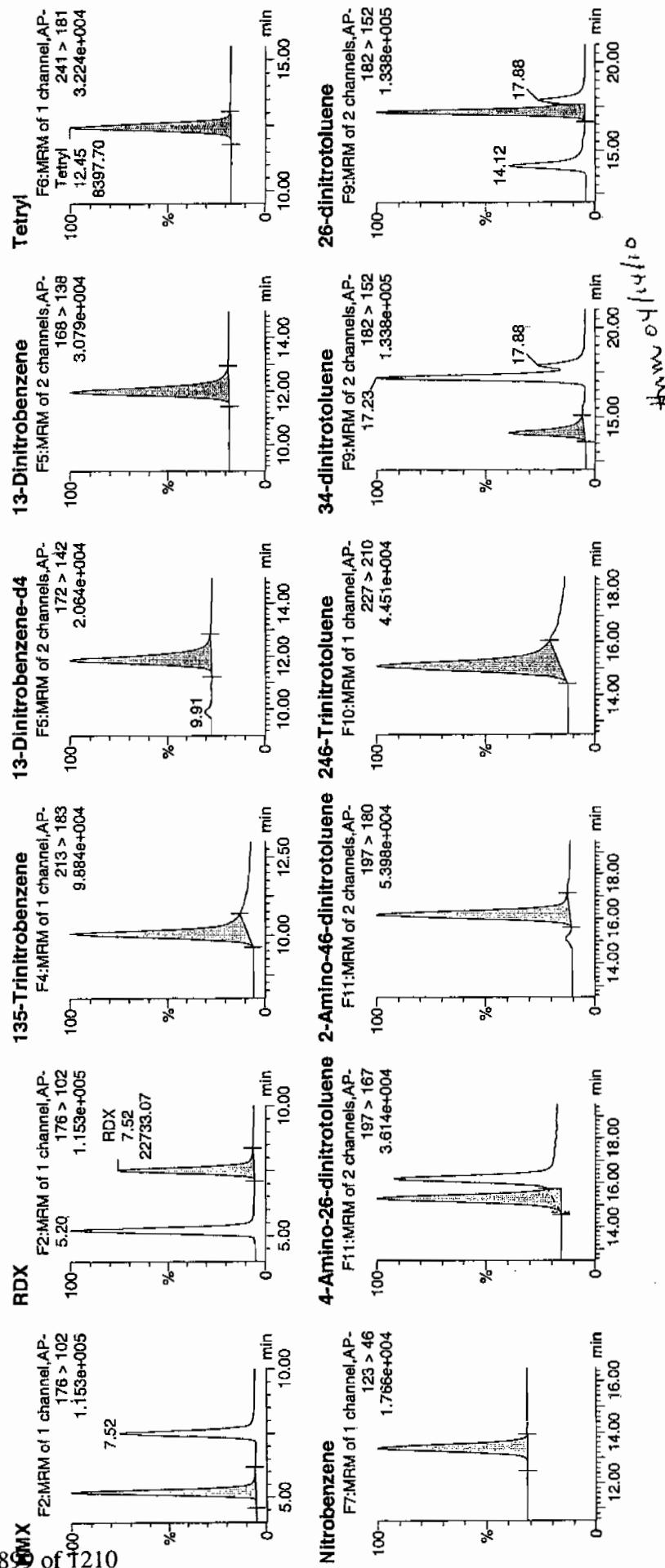
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Time: 02:29:16

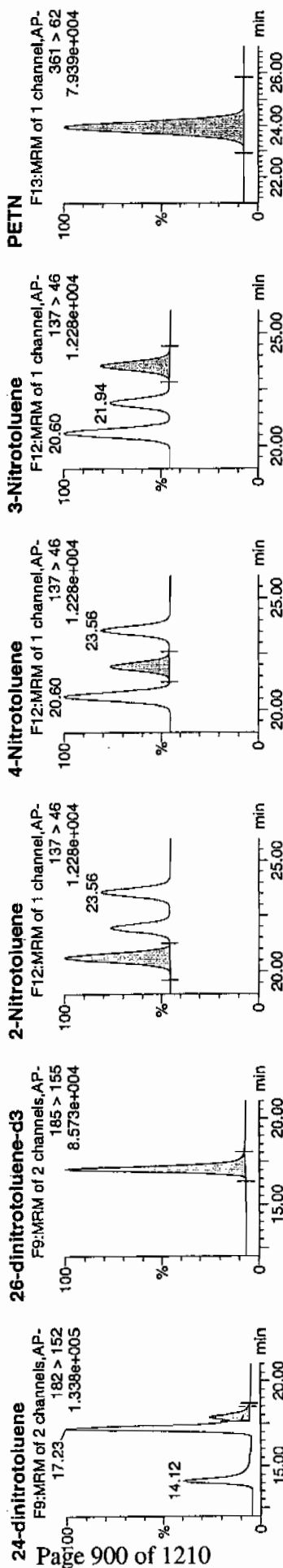
ID: WXX100412-07CCV

Signal: 1:1,B

WXX
4/13/10



Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	S/Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	%Inj	%Rec	%Dev	SN
WXX100412-07CCV	HMX	176 > 102	5.20	28491.268	5686.049	28491.268	2505.366	bb			591.0742	98.5	-1.5	2424.2
WXX100412-07CCV	RDX	176 > 102	7.52	22733.072	5686.049	22733.072	1999.022	bb			698.4212	116.4	16.4	1800.1
WXX100412-07CCV	135-Trinitrobenzene	213 > 183	10.05	27417.908	5686.049	27417.908	2410.981	bb			557.7127	93.0	-7.0	985.8
WXX100412-07CCV	13-Dinitrobenzene-d4	172 > 142	11.87	5686.049	5686.049	5686.049	5686.049	bb			483.4777	96.7	-3.3	419.8
WXX100412-07CCV	13-Dinitrobenzene	168 > 138	11.97	9217.395	5686.049	9217.395	810.527	bb			606.1968	101.0	1.0	1027.7
WXX100412-07CCV	Tetryl	241 > 181	12.45	8397.697	5686.049	8397.697	738.447	bd			569.6696	94.9	-5.1	1109.4
WXX100412-07CCV	Nitrobenzene	123 > 46	13.37	4190.401	5686.049	4190.401	368.481	bd			587.4110	97.9	-2.1	482.0
WXX100412-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.32	12637.104	33054.137	12637.104	191.158	MM	13-Apr-10	11:02:49	565.9529	94.3	-5.7	550.6
WXX100412-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.16	19697.299	33054.137	19697.299	297.955	bb			581.7193	97.0	-3.0	507.4
WXX100412-07CCV	246-Trinitrotoluene	227 > 210	15.10	18353.908	33054.137	18353.908	277.634	bb			638.1909	106.4	6.4	574.4
WXX100412-07CCV	34-dinitrotoluene	182 > 152	14.12	20079.451	33054.137	20079.451	303.736	bb			294.5666	98.2	-1.8	472.2
WXX100412-07CCV	26-dinitrotoluene	182 > 152	17.23	47216.063	33054.137	47216.063	714.223	MM	13-Apr-10	11:07:54	603.4644	100.6	0.6	1300.6
WXX100412-07CCV	24-dinitrotoluene	182 > 152	17.88	11176.726	33054.137	11176.726	169.067	MM	13-Apr-10	11:10:49	647.7566	108.0	8.0	280.1
WXX100412-07CCV	26-dinitrotoluene-d3	185 > 155	17.05	33054.137	33054.137	33054.137	33054.137	bb			472.4290	94.5	-5.5	2808.6
WXX100412-07CCV	2-Nitrotoluene	137 > 46	20.60	3195.010	33054.137	3195.010	48.330	bb			558.1587	93.0	-7.0	343.3
WXX100412-07CCV	4-Nitrotoluene	137 > 46	21.94	1685.013	33054.137	1685.013	25.489	bb			614.4905	102.4	2.4	193.2
WXX100412-07CCV	3-Nitrotoluene	137 > 46	23.56	2082.501	33054.137	2082.501	31.501	bb			540.3134	90.1	-9.9	224.9
WXX100412-07CCV	PETN	361 > 62	23.94	39570.852	33054.137	39570.852	598.576	bb			688.8709	114.8	14.8	6418.5

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/13/10
 Time of Injection: 0229
 Standard Number: WXX100412-07CCV
 Data File: EXP0412023a

HMX		98.5
RDX		116.4
135-TNB		93.0
13-DNB		101.0
Tetryl		94.9
Nitrobenzene		97.9
4A-26-DNT		94.3
2A-46-DNT		97.0
246-TNT		106.4
34-DNT(surr)		98.2
26-DNT		100.6
24-DNT		108.0
2-NT		93.0
4-NT		102.4
3-NT		90.1
PETN		114.8

WXX
4/13/10

Total 1606.5

Average 100.4

WXX 04/14/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0412025a

Analysis Date: 13-APR-10 03:28

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	44.517	111	
1,3-Dinitrobenzene-d4	500	492.919	99	
2,4,6-Trinitrotoluene	40	39.436	99	
2,4-Dinitrotoluene	40	43.525	109	
2,6-Dinitrotoluene	40	39.656	99	
2,6-Dinitrotoluene-d3	500	514.01	103	
2-Amino-4,6-dinitrotoluene	40	37.309	93	
3,4-Dinitrotoluene	20	19.281	96	
4-Amino-2,6-dinitrotoluene	40	37.529	94	
HMX	40	42.31	106	
Nitrobenzene	40	35.496	89	
PETN	40	42.974	107	
RDX	40	45.439	114	
Tetryl	40	42.386	106	
m-Dinitrobenzene	40	46.427	116	
m-Nitrotoluene	40	39.933	100	
o-Nitrotoluene	40	37.946	95	
p-Nitrotoluene	40	42.692	107	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 49 of 77

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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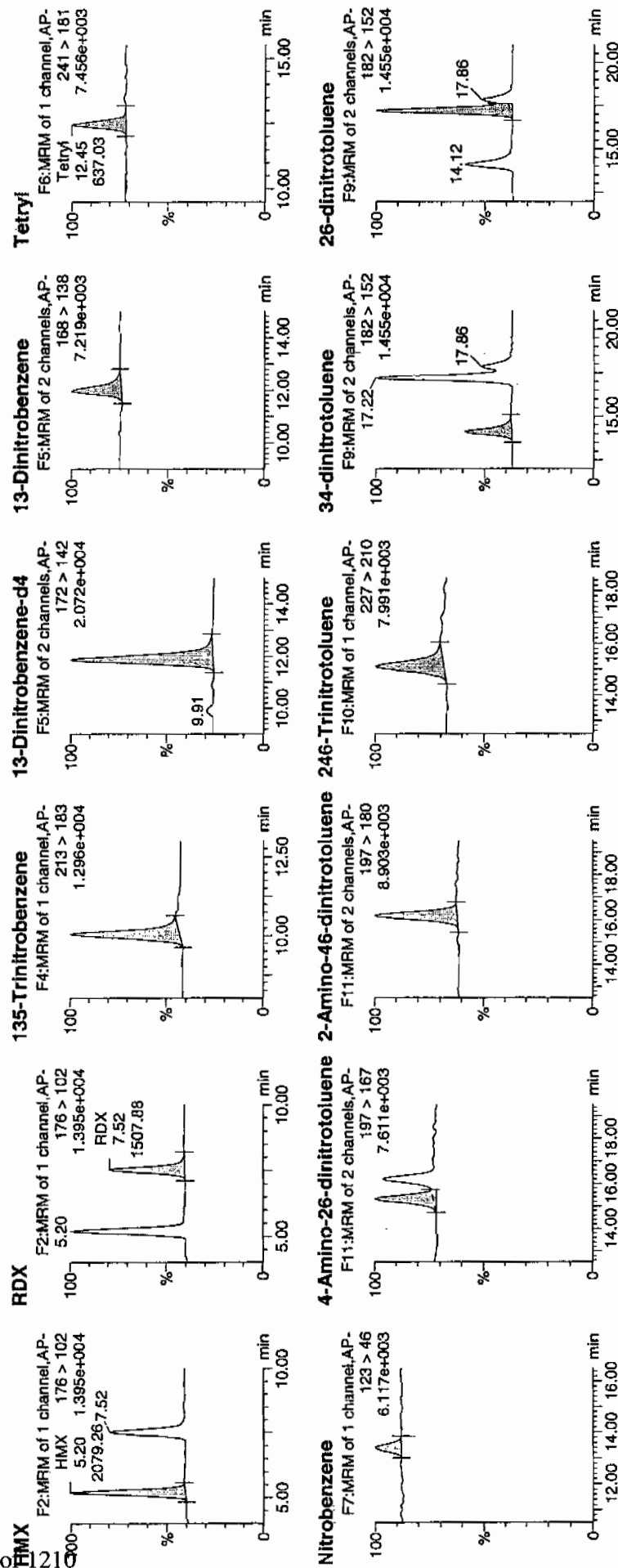
Date: 13-Apr-2010

Time: 03:28:21

ID: WXX100412-08CRI

Label: 1:1,C

1.13/20



Handwritten note: 1.13/20

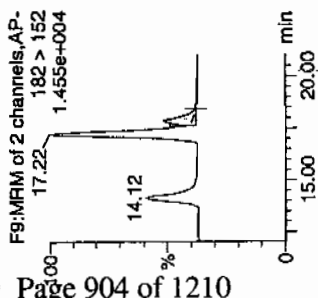
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

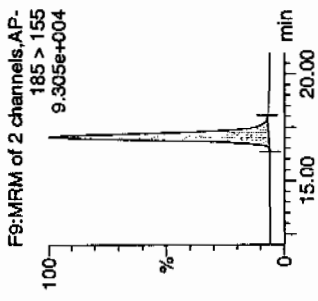
Printed: Tue Apr 13 11:14:26 2010, Page 50 of 77

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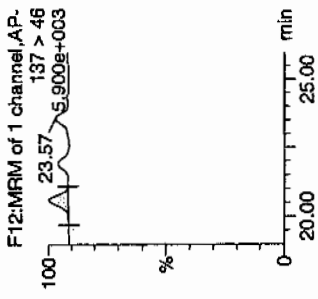
24-dinitrotoluene



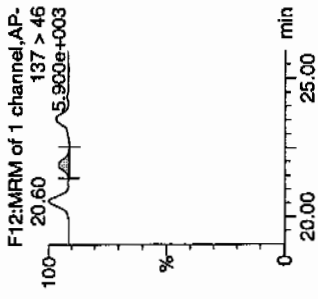
26-dinitrotoluene-d3



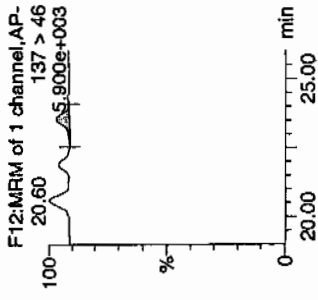
2-Nitrotoluene



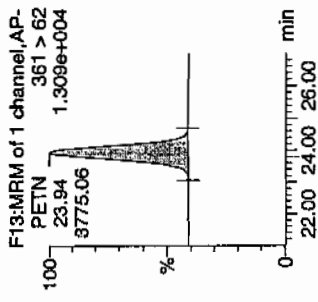
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	Norm	Peak	Dev	S/N
WXX100412-08CRI	HMX	176 > 102	5.20	2079.264	5797.090	2079.264	179.337	bb			42.3097	105.8	5.8	348.3	
WXX100412-08CRI	RDX	176 > 102	7.52	1507.880	5797.090	1507.880	130.055	bb			45.4388	113.6	13.6	225.5	
WXX100412-08CRI	135-Trinitrobenzene	213 > 183	10.05	2231.265	5797.090	2231.265	192.447	bb			44.5172	111.3	11.3	130.5	
WXX100412-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	5797.090		5797.090	5797.090	bb			492.9193	98.6	-1.4	771.9	
WXX100412-08CRI	13-Dinitrobenzene	168 > 138	11.97	719.725	5797.090	719.725	62.076	bb			46.4272	116.1	16.1	67.2	
WXX100412-08CRI	Tetryl	241 > 181	12.45	637.032	5797.090	637.032	54.944	bb			42.3862	106.0	6.0	45.1	
WXX100412-08CRI	Nitrobenzene	123 > 46	13.41	258.161	5797.090	258.161	22.266	bb			35.4959	88.7	-11.3	32.0	
WXX100412-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.32	911.734	35963.441	911.734	12.676	MM	13-Apr-10	11:02:58	37.5289	93.8	-6.2	44.8	
WXX100412-08CRI	2-Amino-45-dinitrotoluene	197 > 180	16.19	1374.488	35963.441	1374.488	19.110	bb			37.3089	93.3	-6.7	102.4	
WXX100412-08CRI	246-Trinitrotoluene	227 > 210	15.10	1233.959	35963.441	1233.959	17.156	bb			39.4355	98.6	-1.4	52.3	
WXX100412-08CRI	34-dinitrotoluene	182 > 152	14.12	1430.000	35963.441	1430.000	19.881	bb			19.2811	96.4	-3.6	68.9	
WXX100412-08CRI	26-dinitrotoluene	182 > 152	17.22	3375.872	35963.441	3375.872	46.935	MM	13-Apr-10	11:08:02	39.6563	99.1	-0.9	198.4	
WXX100412-08CRI	24-dinitrotoluene	182 > 152	17.86	817.109	35963.441	817.109	11.360	MM	13-Apr-10	11:10:56	43.5253	108.8	8.8	43.1	
WXX100412-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	35963.441		35963.441	35963.441	bb			514.0105	102.8	2.8	1763.8	
WXX100412-08CRI	2-Nitrotoluene	137 > 46	20.60	236.329	35963.441	236.329	3.286	bb			37.9461	94.9	-5.1	26.8	
WXX100412-08CRI	4-Nitrotoluene	137 > 46	21.92	127.371	35963.441	127.371	1.771	bb			42.6821	106.7	6.7	14.4	
WXX100412-08CRI	3-Nitrotoluene	137 > 46	23.57	167.459	35963.441	167.459	2.328	bb			39.9332	99.8	-0.2	17.3	
WXX100412-08CRI	PETN	361 > 62	23.94	3775.057	35963.441	3775.057	52.485	bb			42.9742	107.4	7.4	1684.5	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/13/10
 Time of Injection 0328
 Standard Number WXX100412-08CRI
 Data File EXP0412025a

HMX	105.8
RDX	113.6
135-TNB	111.3
13-DNB	116.1
Tetryl	106.0
Nitrobenzene	88.7
4A-26-DNT	93.8
2A-46-DNT	93.3
246-TNT	98.6
34-DNT(surr)	96.4
26-DNT	99.1
24-DNT	108.8
2-NT	94.9
4-NT	106.7
3-NT	99.8
PETN	107.4

*WTF
4/13/10*

Total 1640.3

Average 102.5

done 04/14/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0412036a

Analysis Date: 13-APR-10 08:52

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	609.665	102	
2,6-Dinitrotoluene	600	616.741	103	
2,6-Dinitrotoluene-d3	500	514.162	103	
2-Amino-4,6-dinitrotoluene	600	599.331	100	
3,4-Dinitrotoluene	300	294.405	98	
4-Amino-2,6-dinitrotoluene	600	576.117	96	
HMX	600	602.928	100	
Nitrobenzene	600	645.578	108	
PETN	600	634.783	106	
RDX	600	702.566	117	
Tetryl	600	604.875	101	
m-Dinitrobenzene	600	626.308	104	
m-Nitrotoluene	600	515.069	86	
o-Nitrotoluene	600	519.467	87	
p-Nitrotoluene	600	594.454	99	
1,3,5-Trinitrobenzene	600	622.986	104	
1,3-Dinitrobenzene-d4	500	495.434	99	
2,4,6-Trinitrotoluene	600	635.68	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene, 2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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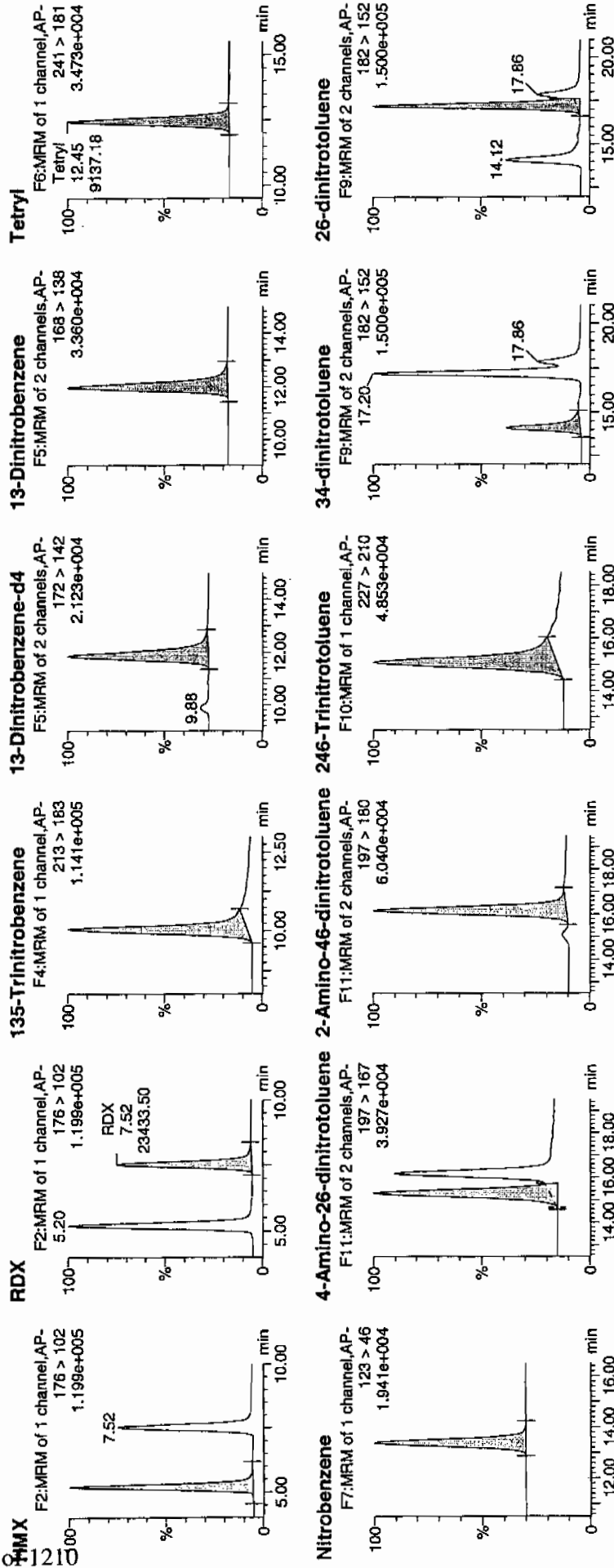
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Time: 08:52:42

ID: WXX100408-07CCV

Serial: 1:1,B

WXX
4/13/10



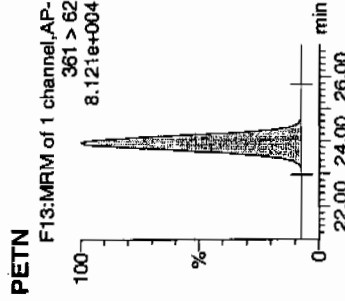
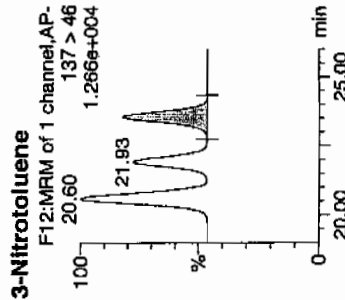
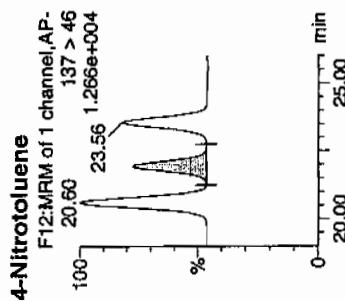
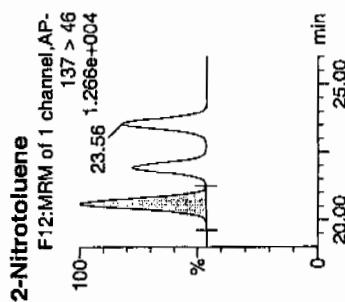
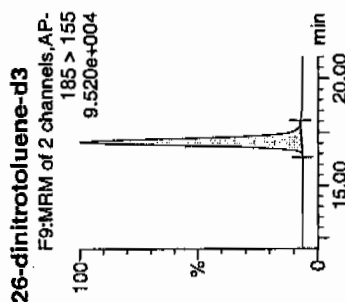
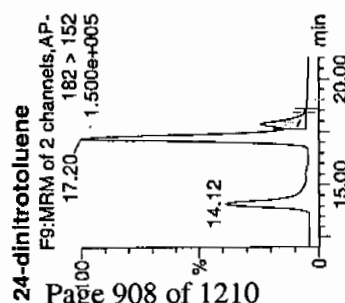
WXX
4/13/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 72 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod	Date	Mod	Time	Area	%Rec	StdDev	RT	ISN
WXX100408-07CCV	HMx	176 > 102	5.20	29781.385	5826.664	29781.385	2555.612	bb					602.9284	100.5	0.5	621.5	
WXX100408-07CCV	RDx	176 > 102	7.52	23433.498	5826.664	23433.498	2010.885	bb					702.5658	117.1	17.1	454.8	
WXX100408-07CCV	135-Trinitrobenzene	213 > 183	10.05	31384.221	5826.664	31384.221	2693.155	bb					622.9859	103.8	3.8	1221.3	
WXX100408-07CCV	13-Dinitrobenzene-d4	172 > 142	11.87	5826.664	5826.664	5826.664	5826.664	bb					495.4340	99.1	-0.9	856.5	
WXX100408-07CCV	13-Dinitrobenzene	168 > 138	11.97	9758.702	5826.664	9758.702	837.418	bb					626.3082	104.4	4.4	1223.2	
WXX100408-07CCV	Tetryl	241 > 181	12.45	9137.179	5826.664	9137.179	784.083	bb					604.8749	100.8	0.8	997.4	
WXX100408-07CCV	Nitrobenzene	123 > 46	13.37	4719.232	5826.664	4719.232	404.969	bb					645.5776	107.6	7.6	430.6	
WXX100408-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.29	14000.422	35974.031	14000.422	194.591	MM	13-Apr-10	11:03:12			576.1169	96.0	-4.0	564.0	
WXX100408-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.16	22086.311	35974.031	22086.311	306.976	bb					599.3310	99.9	-0.1	644.5	
WXX100408-07CCV	246-Trinitrotoluene	227 > 210	15.10	19896.646	35974.031	19896.646	276.542	bb					635.6802	105.9	5.9	463.0	
WXX100408-07CCV	34-dinitrotoluene	182 > 152	14.12	21841.178	35974.031	21841.178	303.569	bb					294.4045	98.1	-1.9	603.2	
WXX100408-07CCV	26-dinitrotoluene	182 > 152	17.20	52517.492	35974.031	52517.492	729.936	MM	13-Apr-10	11:08:37			616.7407	102.8	2.8	1677.9	
WXX100408-07CCV	24-dinitrotoluene	182 > 152	17.86	11448.733	35974.031	11448.733	159.125	MM	13-Apr-10	11:11:06			609.6651	101.5	1.6	331.4	
WXX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.05	35974.031	35974.031	35974.031	35974.031	bb					514.1618	102.8	2.8	2057.8	
WXX100408-07CCV	2-Nitrotoluene	137 > 46	20.60	3236.203	35974.031	3236.203	44.980	bb					519.4669	86.6	-13.4	654.9	
WXX100408-07CCV	4-Nitrotoluene	137 > 46	21.93	1774.065	35974.031	1774.065	24.658	bb					594.4539	99.1	-0.9	382.8	
WXX100408-07CCV	3-Nitrotoluene	137 > 46	23.56	2160.571	35974.031	2160.571	30.030	bb					515.0694	85.8	-14.2	438.3	
WXX100408-07CCV	PETN	361 > 62	23.94	40282.918	35974.031	40282.918	559.889	bb					634.7825	105.8	5.8	10168.9	

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/13/10
 Time of Injection: 0852
 Standard Number: WXX100412-07CCV
 Data File: EXP0412036a

HMX	100.5
RDX	117.1
135-TNB	103.8
13-DNB	104.4
Tetryl	100.8
Nitrobenzene	107.6
4A-26-DNT	96.0
2A-46-DNT	99.9
246-TNT	105.9
34-DNT(surr)	98.1
26-DNT	102.8
24-DNT	101.6
2-NT	86.6
4-NT	99.1
3-NT	85.8
PETN	105.8

*WPP
4/13/10*

Total 1615.8

Average

101.0

Amir 04/14/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0412038a

Analysis Date: 13-APR-10 09:51

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
HMX	40	39.698	99	
Nitrobenzene	40	39.676	99	
PETN	40	46.251	116	
RDX	40	44.563	111	
Tetryl	40	40.879	102	
m-Dinitrobenzene	40	43.824	110	
m-Nitrotoluene	40	36.581	91	
o-Nitrotoluene	40	36.682	92	
p-Nitrotoluene	40	38.153	95	
1,3,5-Trinitrobenzene	40	45.739	114	
1,3-Dinitrobenzene-d4	500	533	107	
2,4,6-Trinitrotoluene	40	38.169	95	
2,4-Dinitrotoluene	40	45.21	113	
2,6-Dinitrotoluene	40	40.851	102	
2,6-Dinitrotoluene-d3	500	511.74	102	
2-Amino-4,6-dinitrotoluene	40	38.558	96	
3,4-Dinitrotoluene	20	21.488	107	
4-Amino-2,6-dinitrotoluene	40	37.158	93	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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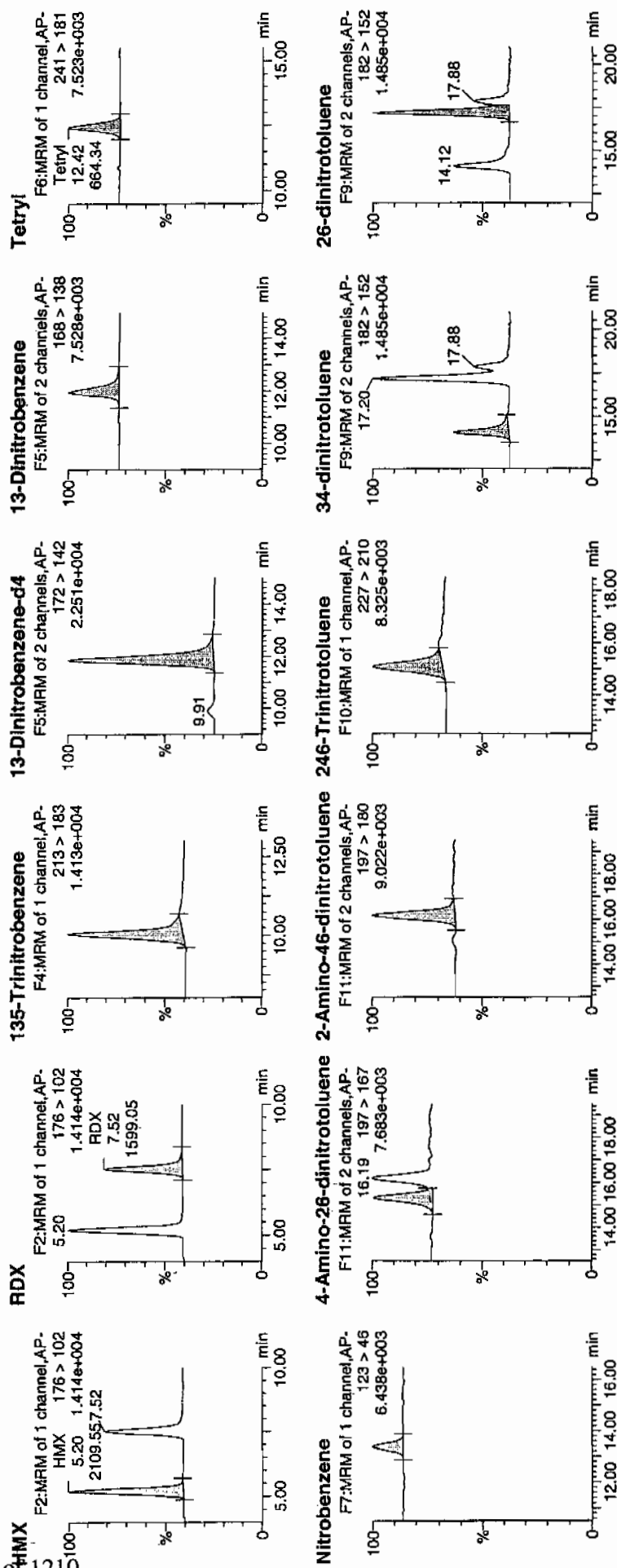
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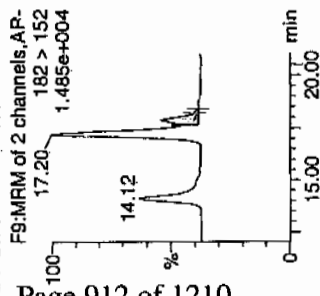
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4/13/10
MMP

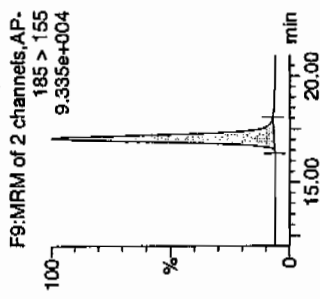


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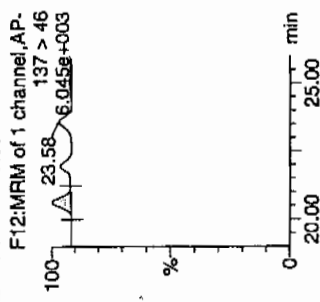
24-dinitrotoluene



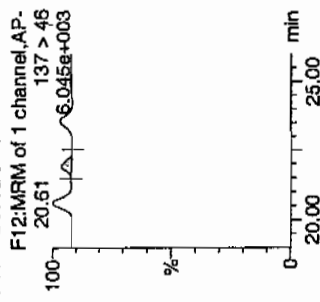
26-dinitrotoluene-d3



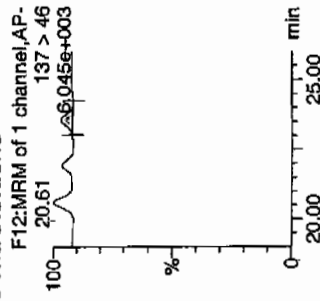
2-Nitrotoluene



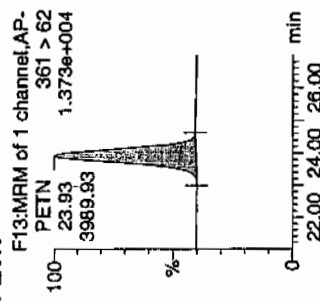
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	Area Ratio	Response	Flags	Mod Date	Mod Time	Ref	Dev	SN
WXX100408-08CRI	HMX	176 > 102	5.20	2109.553	6268.472	168.267	bb	39.6981	99.2	-0.8	344.7	
WXX100408-08CRI	RDX	176 > 102	7.52	1599.046	6268.472	127.547	bb	44.5625	111.4	11.4	232.6	
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.05	2478.890	6268.472	197.727	bb	45.7385	114.3	14.3	445.4	
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	6268.472	6268.472	6268.472	bb	533.0004	106.6	6.6	316.8	
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	11.97	734.612	6268.472	58.596	bb	43.8240	109.6	9.6	56.6	
WXX100408-08CRI	Tetryl	241 > 181	12.42	664.339	6268.472	664.339	bb	40.8791	102.2	2.2	77.0	
WXX100408-08CRI	Nitrobenzene	123 > 46	13.37	312.027	6268.472	24.889	bb	39.6760	99.2	-0.8	26.2	
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.32	898.733	35804.613	12.551	MM	37.1578	92.9	-7.1	46.5	
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.16	1414.235	35804.613	19.749	bb	38.5581	96.4	-3.6	64.1	
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.10	1189.063	35804.613	16.605	bb	38.1693	95.4	-4.6	105.0	
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.12	1586.630	35804.613	22.157	bb	21.4879	107.4	7.4	45.9	
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.20	3462.203	35804.613	48.349	MM	40.8509	102.1	2.1	112.8	
WXX100408-08CRI	24-dinitrotoluene	182 > 152	17.88	844.986	35804.613	11.800	MM	45.2099	113.0	13.0	28.2	
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	35804.613	35804.613	35804.613	bb	511.7404	102.3	2.3	2742.4	
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.61	227.450	35804.613	3.176	bb	36.6824	91.7	-8.3	42.8	
WXX100408-08CRI	4-Nitrotoluene	137 > 46	21.94	113.326	35804.613	1.583	bb	38.1530	95.4	-4.6	23.5	
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.58	152.725	35804.613	2.133	bb	36.5812	91.5	-8.5	27.1	
WXX100408-08CRI	PETN	361 > 62	23.93	3989.934	35804.613	55.718	bb	46.2507	115.6	15.6	239.5	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/13/10
 Time of Injection 0951
 Standard Number WXX100412-08CRI
 Data File EXP0412038a

HMX	99.2
RDX	111.4
135-TNB	114.3
13-DNB	109.6
Tetryl	102.2
Nitrobenzene	99.2
4A-26-DNT	92.9
2A-46-DNT	96.4
246-TNT	95.4
34-DNT(surr)	107.4
26-DNT	102.1
24-DNT	113.0
2-NT	91.7
4-NT	95.4
3-NT	91.5
PETN	115.6

*mtf
4/13/10*

Total 1637.3

Average 102.3

sum 04/14/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100013.wiff

Analysis Date: 10-MAR-10 18:39

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	100	91.8	92	
tris(o-cresyl) phosphate	100	97.1	97	
2,4-Diamino-6-nitrotoluene	100	103	103	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	48.5	97	
3,5-Dinitroaniline	100	87.1	87	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

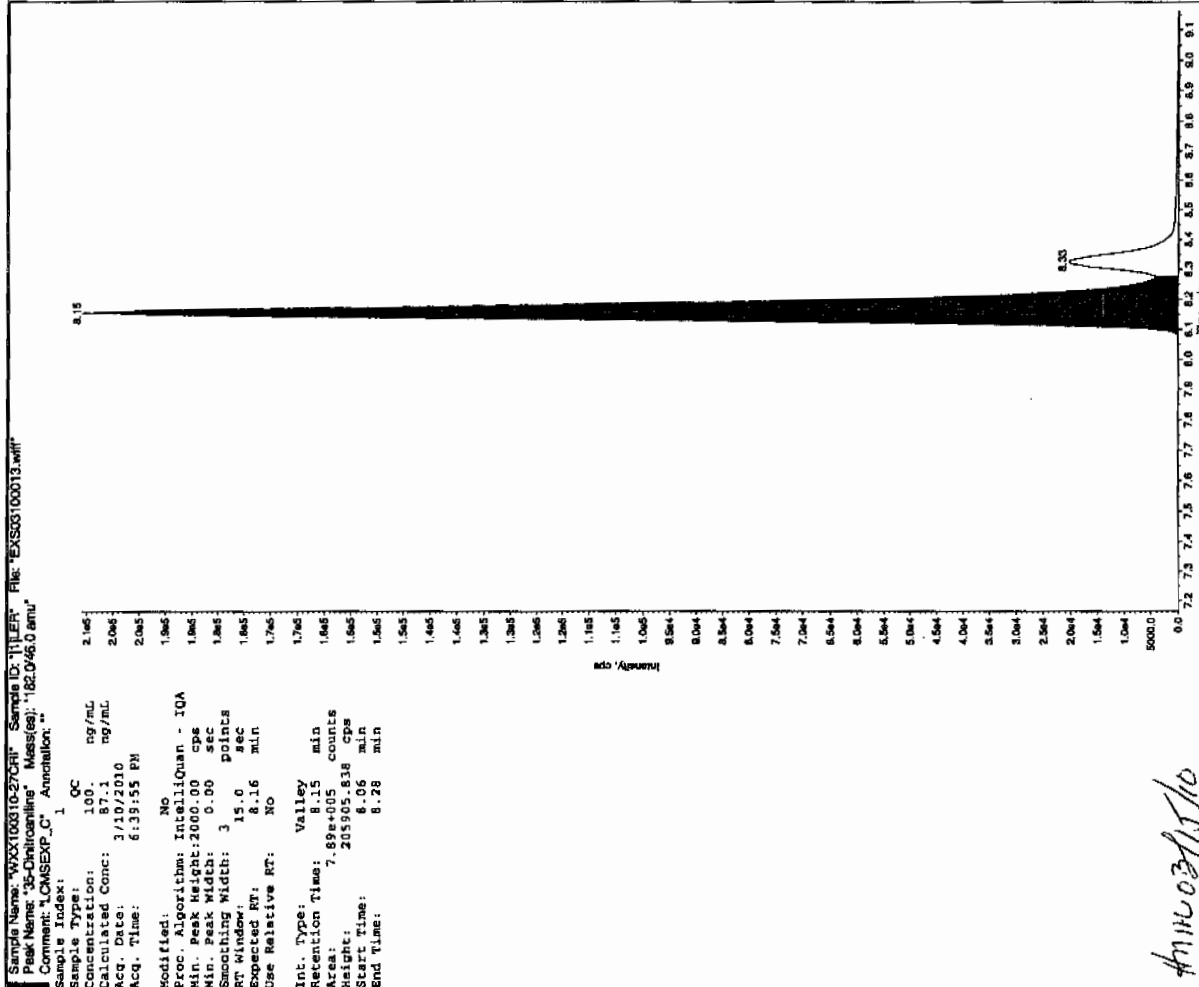
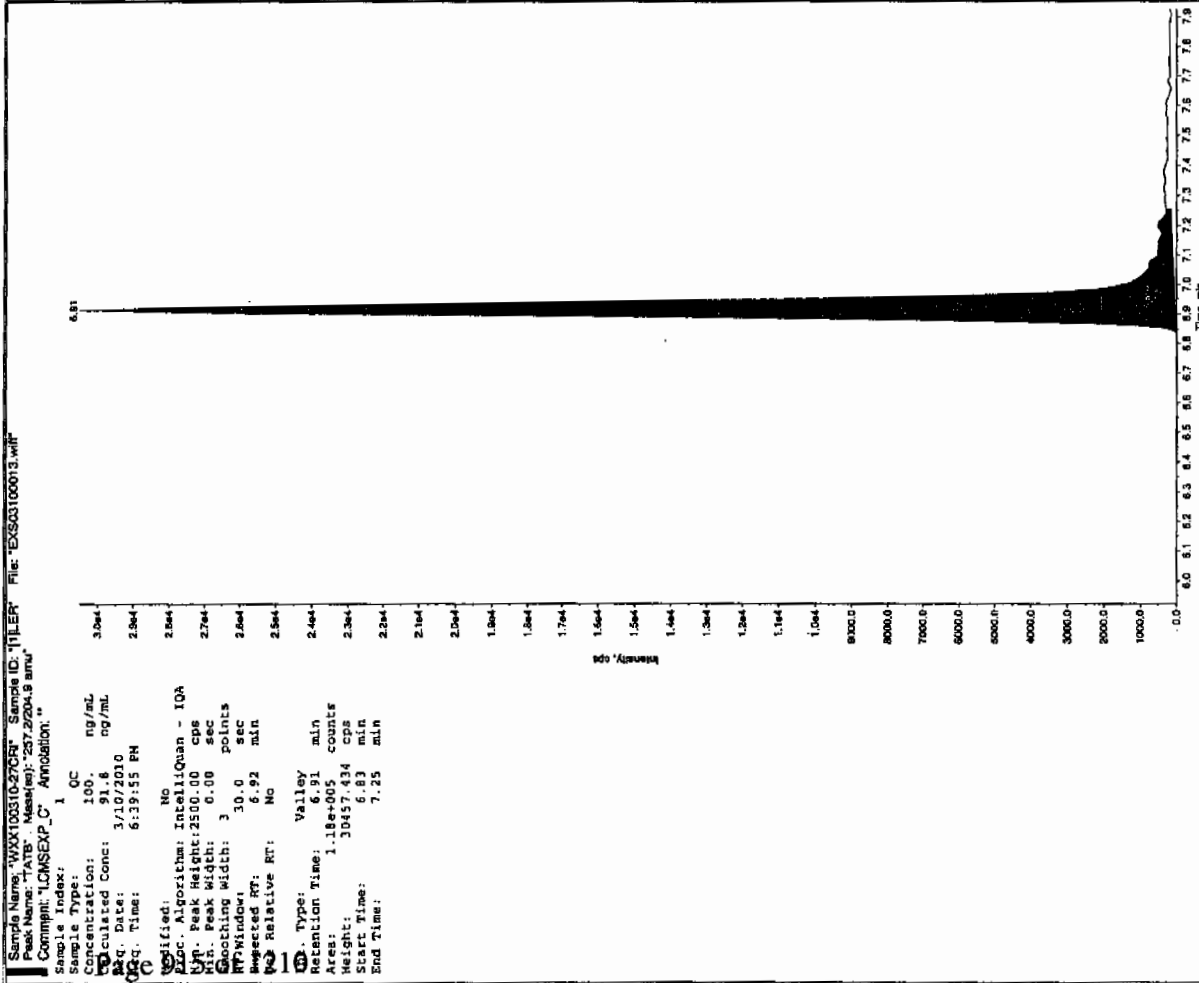
2,4-Diamino-6-nitrotoluene 50-150%

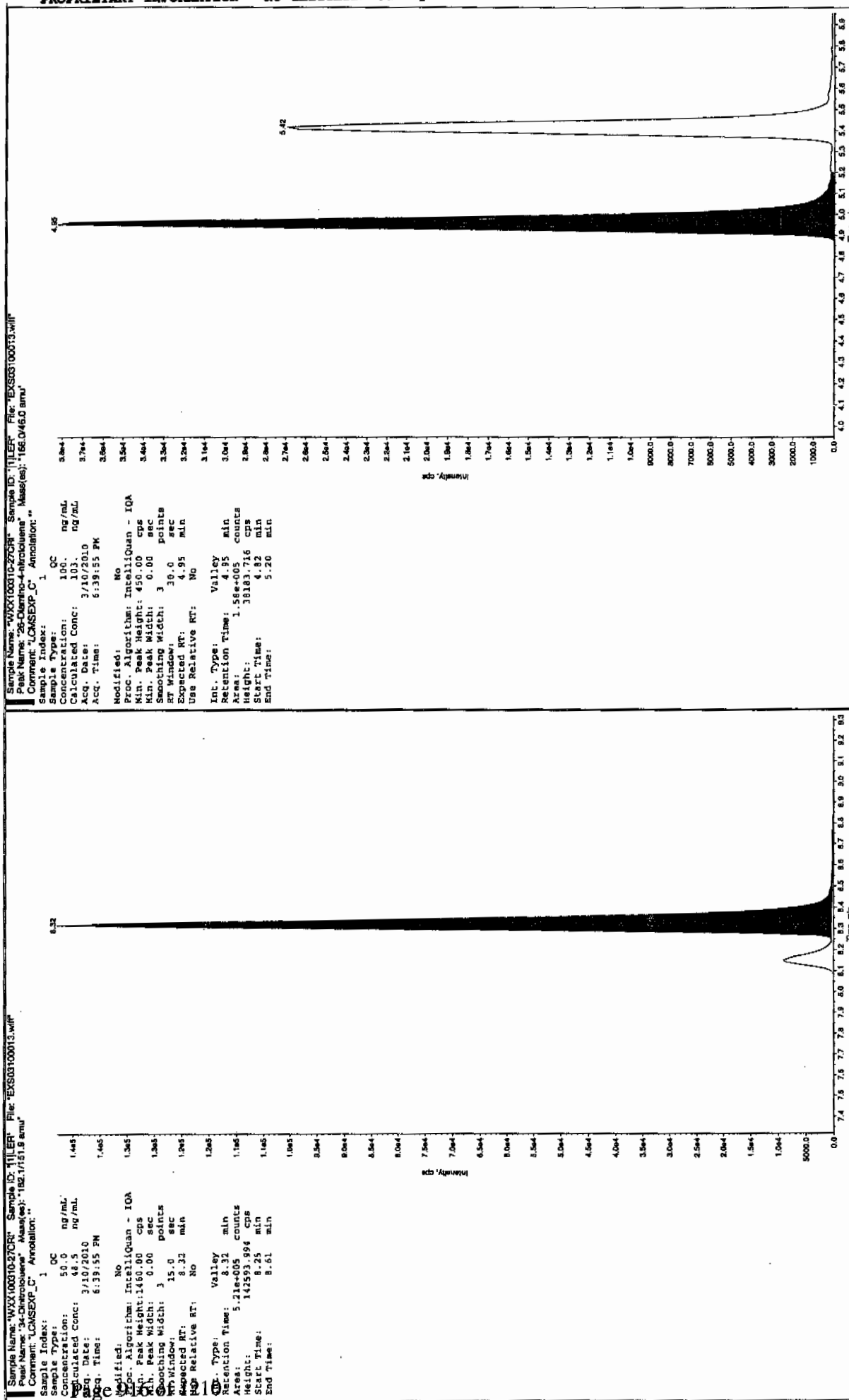
Other Target Analytes 70-130%

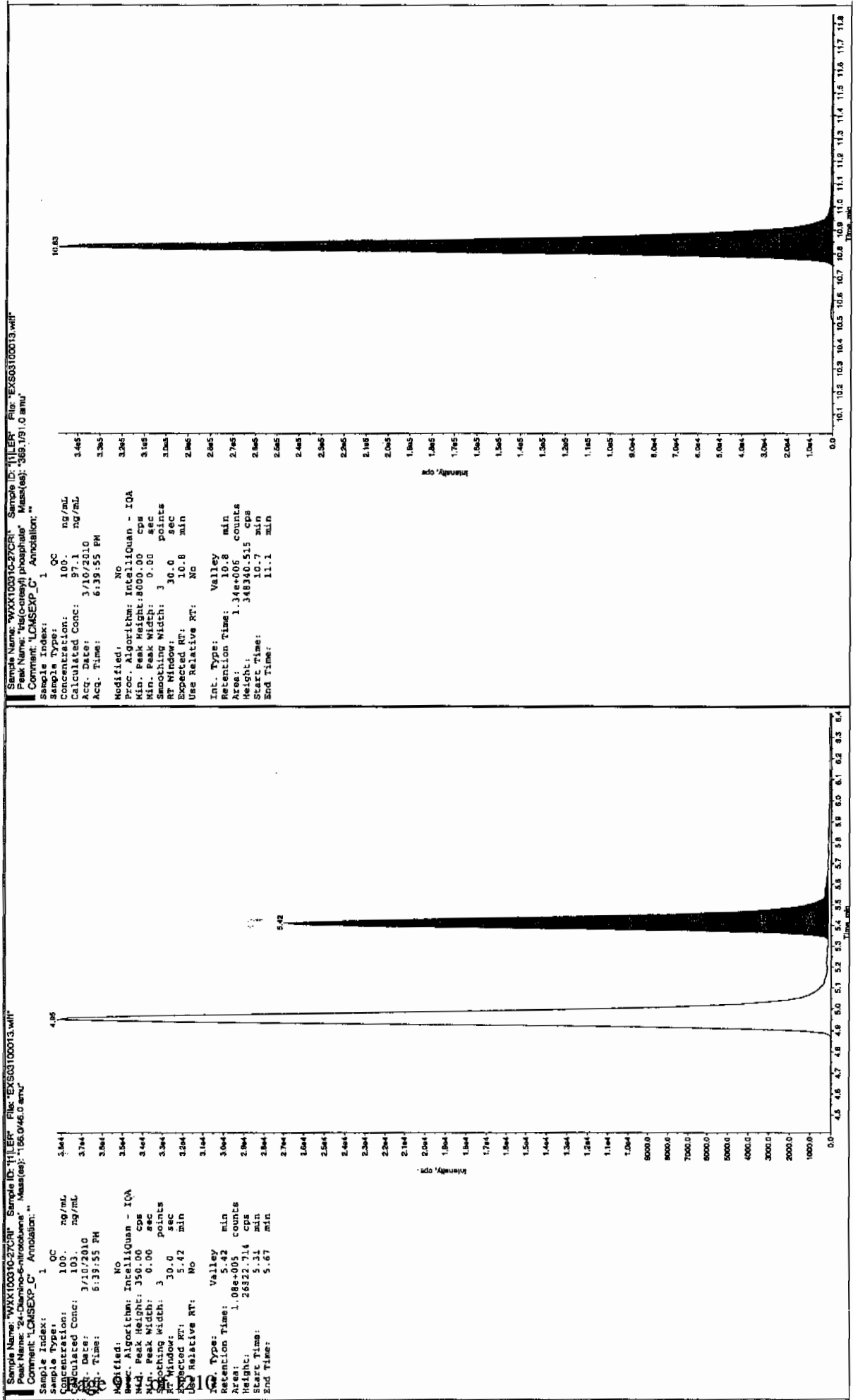
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 3/13/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100024.wiff

Analysis Date: 10-MAR-10 21:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	519	104	
2,6-Diamino-4-nitrotoluene	500	522	104	
3,4-Dinitrotoluene	250	258	103	
3,5-Dinitroaniline	500	541	108	
TATB	500	483	97	
tris(o-cresyl) phosphate	500	480	96	

Recovery Limits:

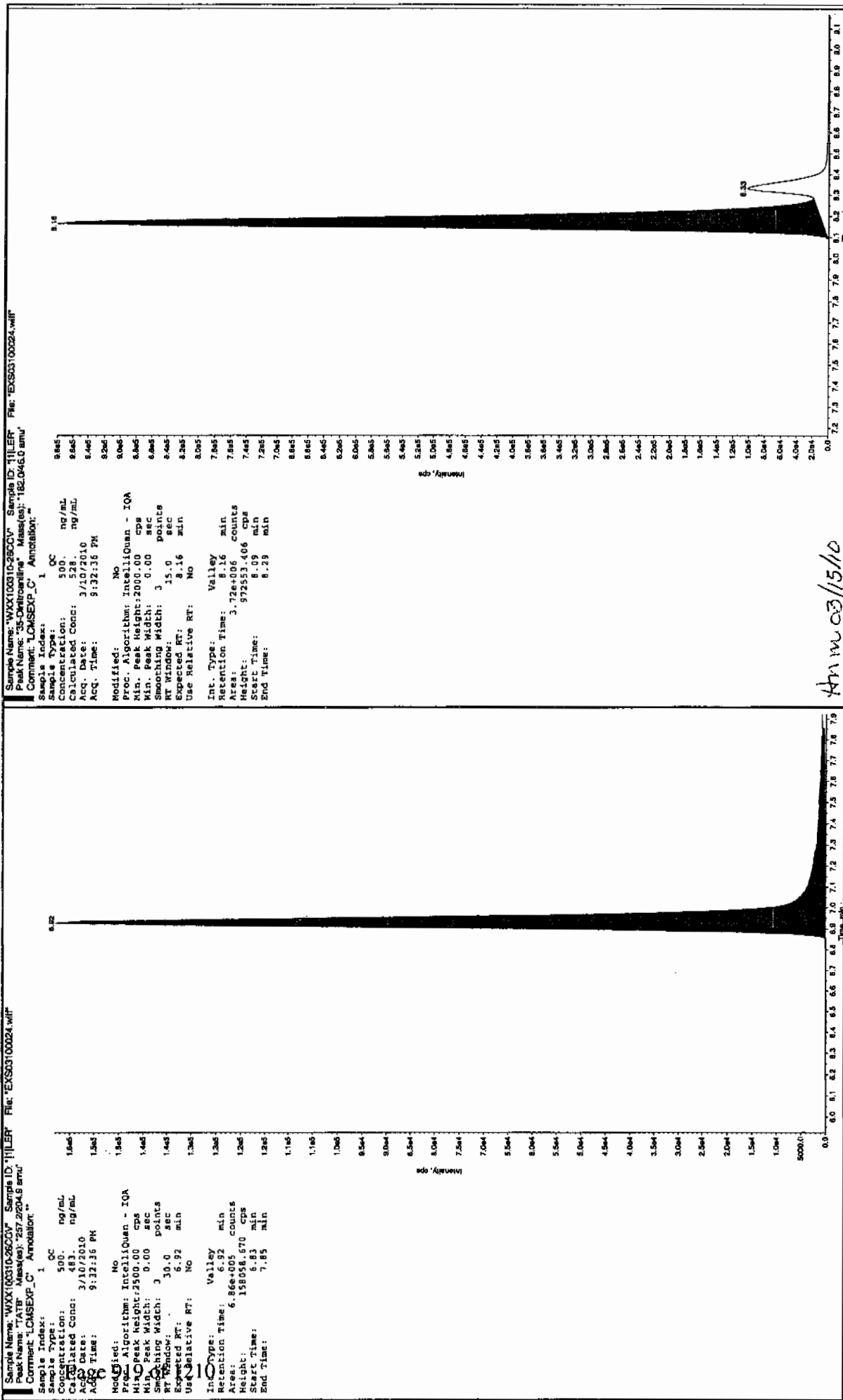
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

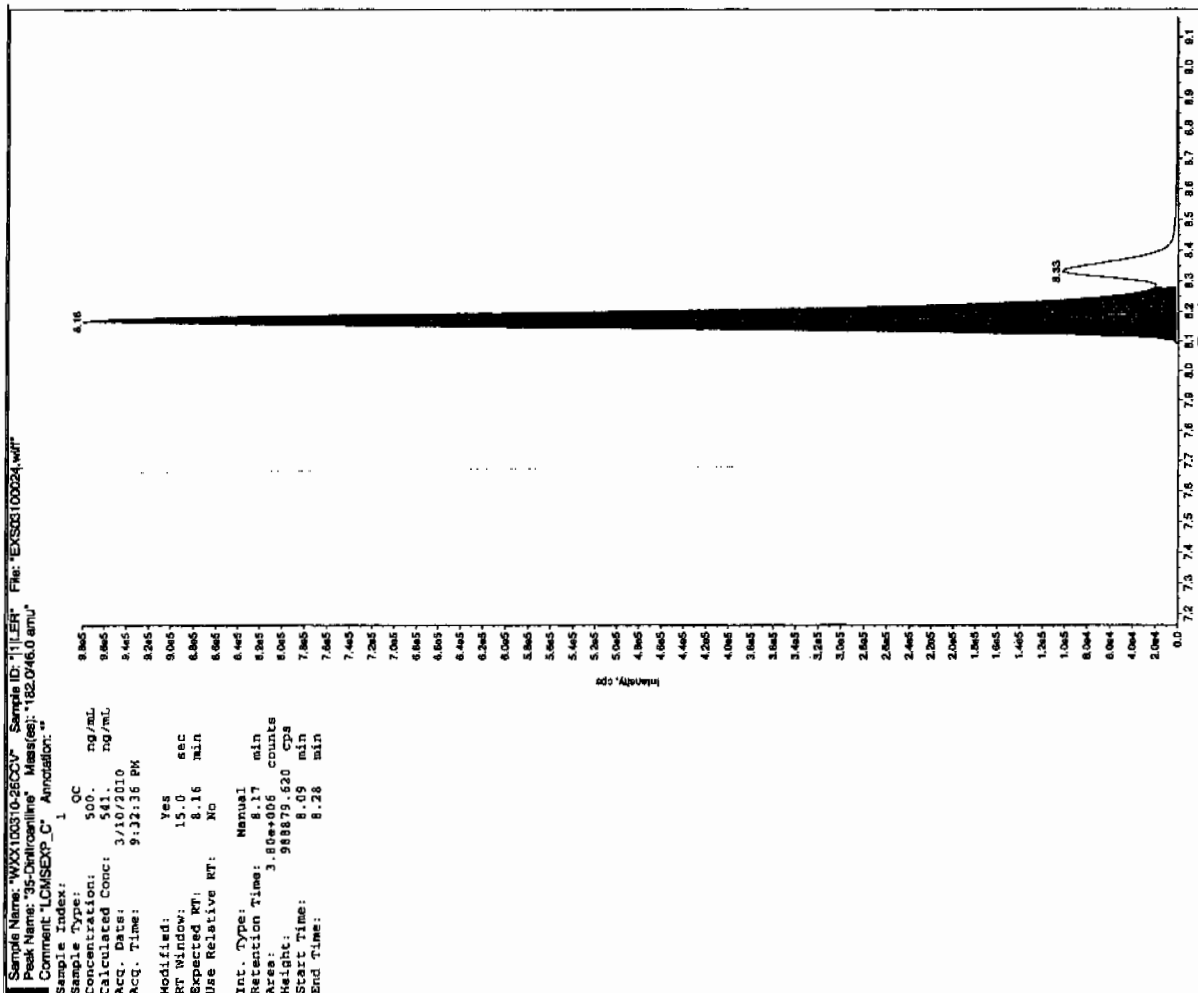
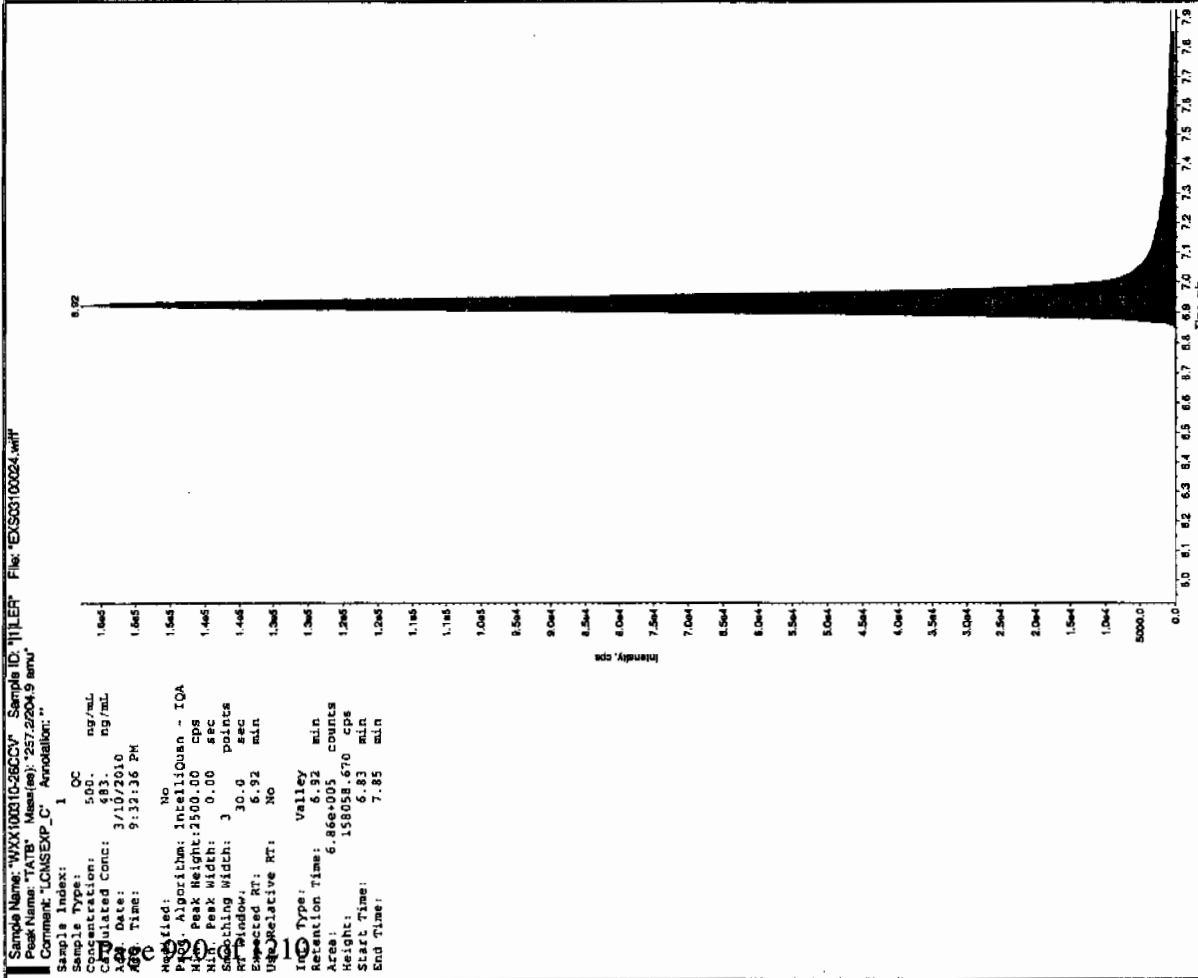
* Value outside of Recovery Limits

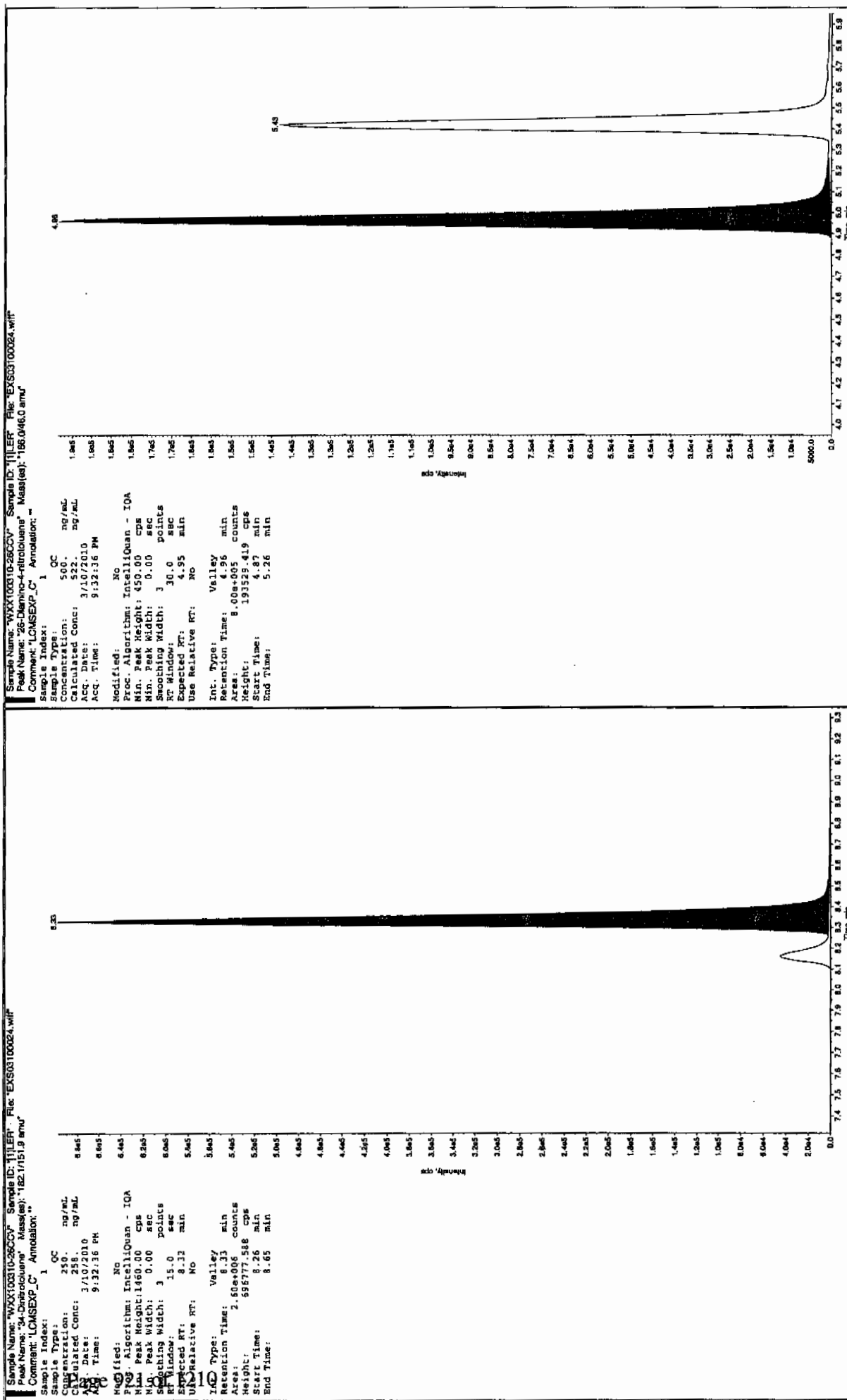
Before Jan 3/13/10

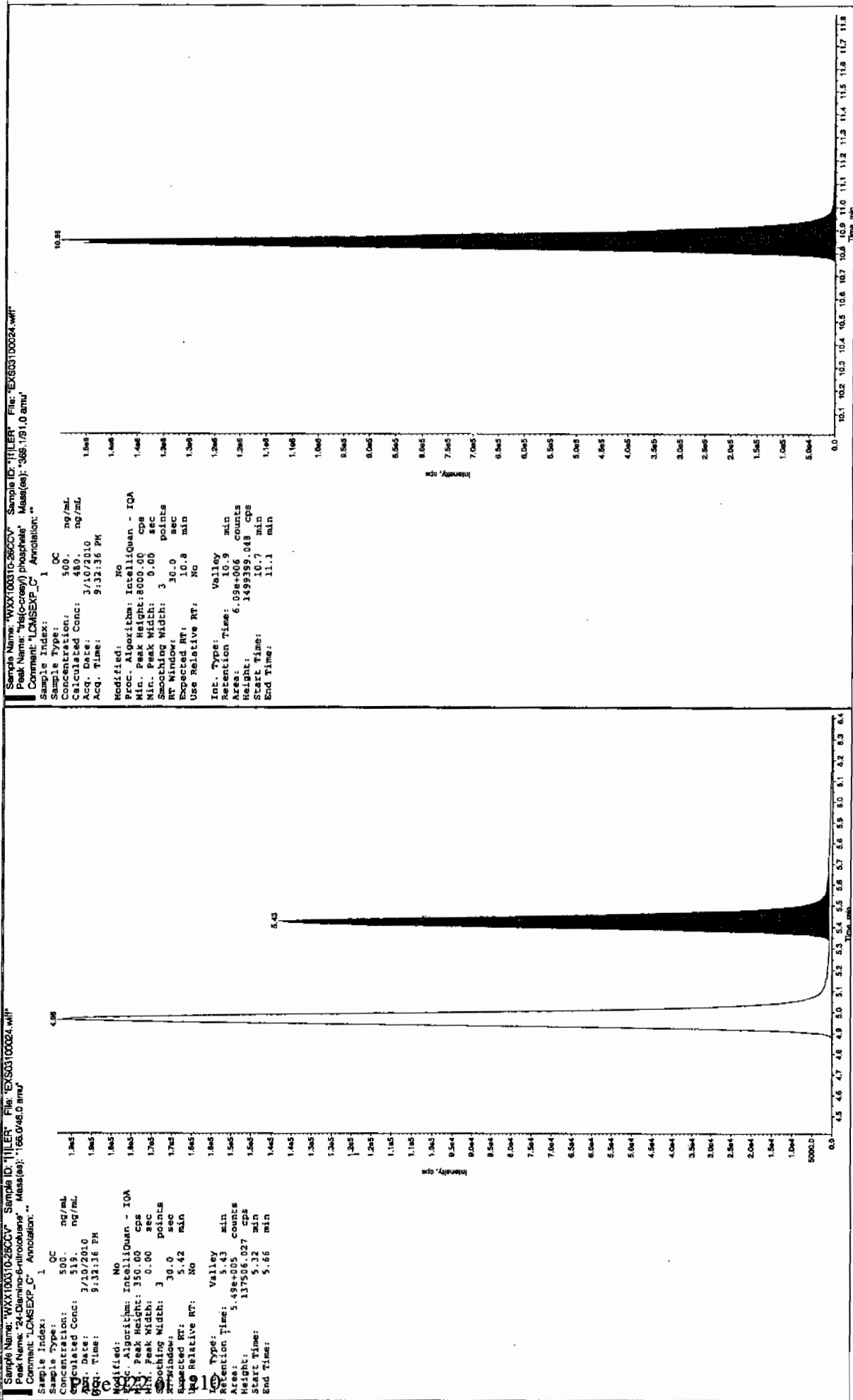


Am m 03/15/10

after Jan 31/3/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100026.wiff

Analysis Date: 10-MAR-10 22:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	104	104	
2,6-Diamino-4-nitrotoluene	100	101	101	
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	88.4	88	
TATB	100	91.2	91	
tris(o-cresyl) phosphate	100	98.2	98	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

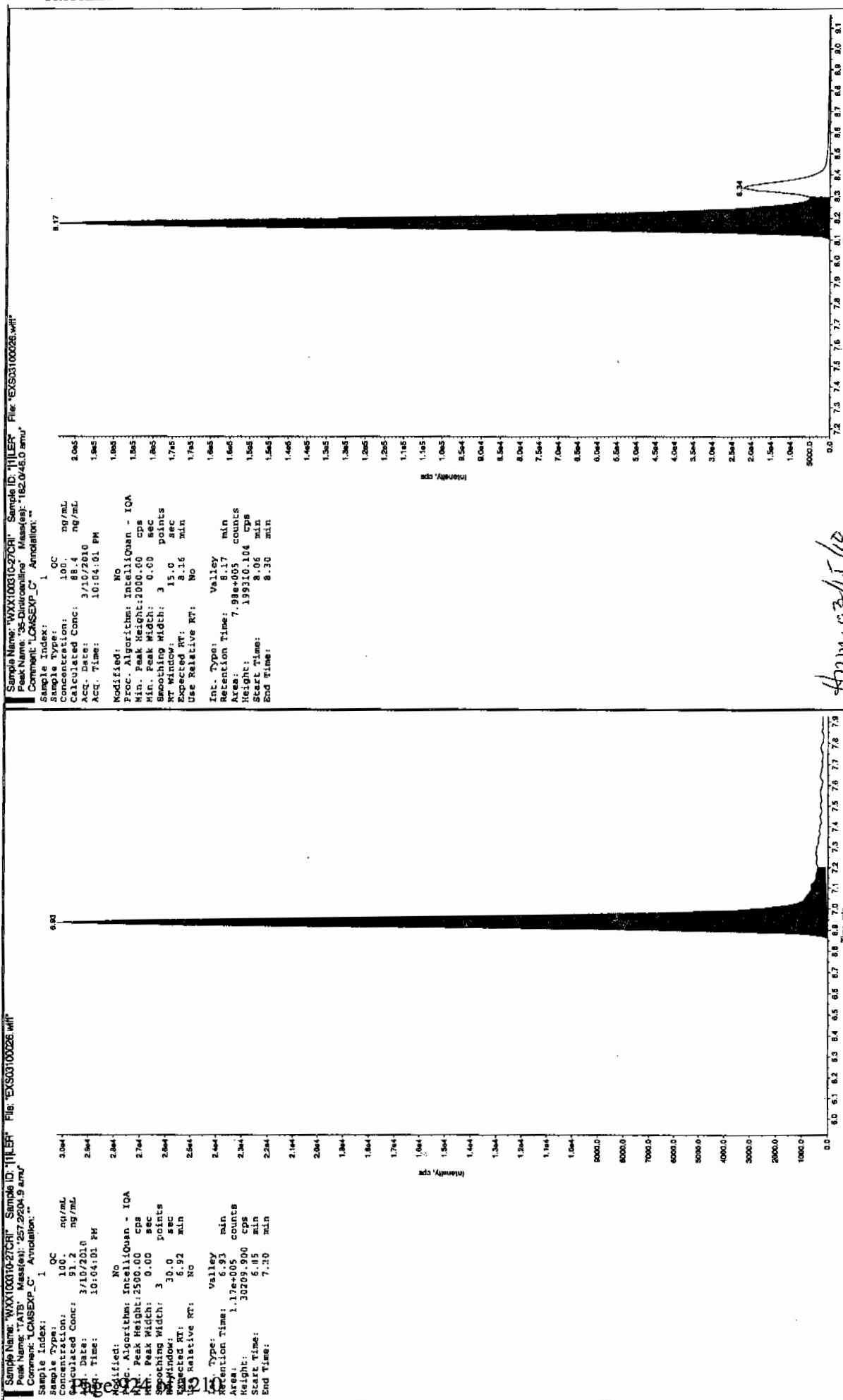
2,4-Diamino-6-nitrotoluene 50-150%

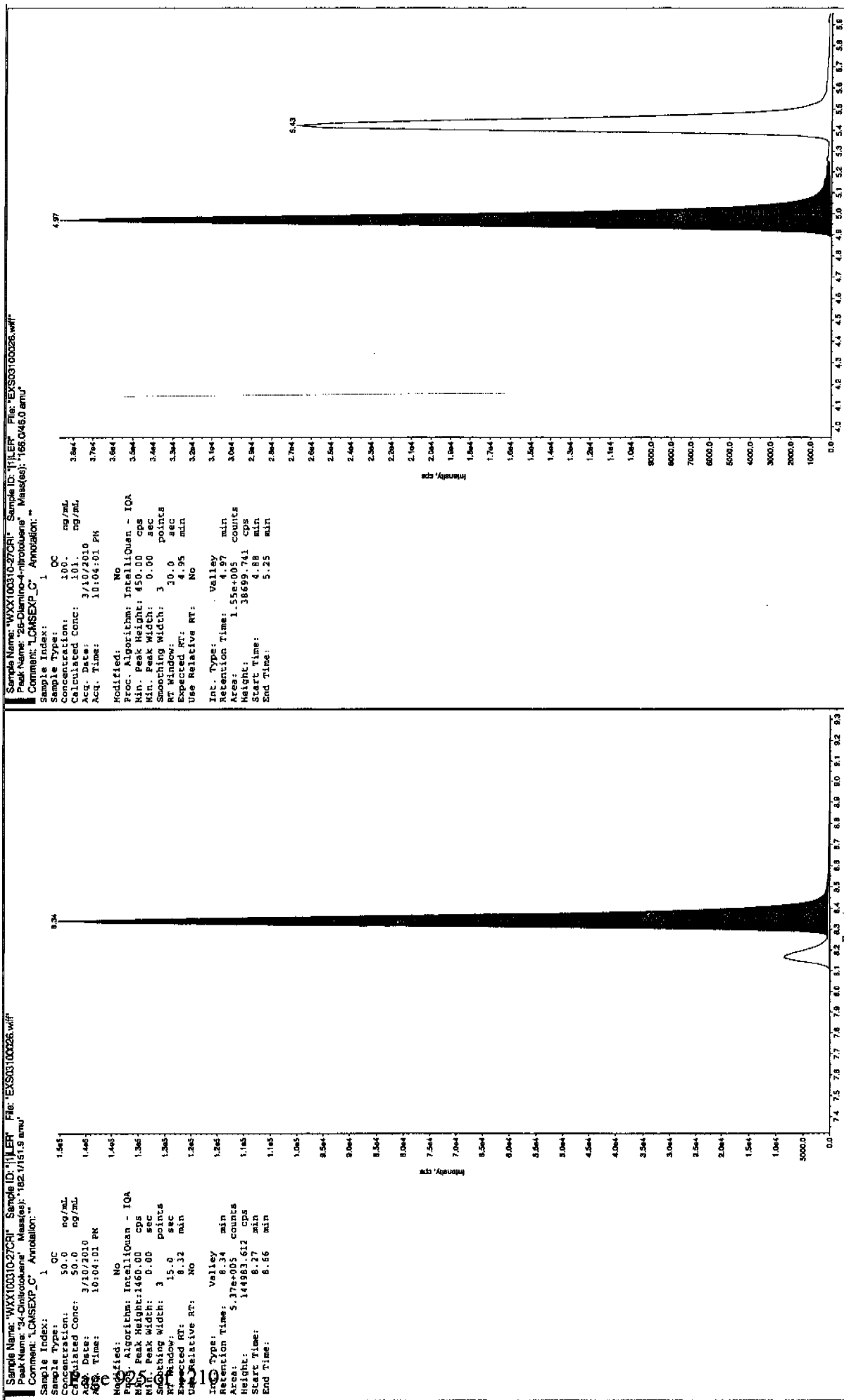
Other Target Analytes 70-130%

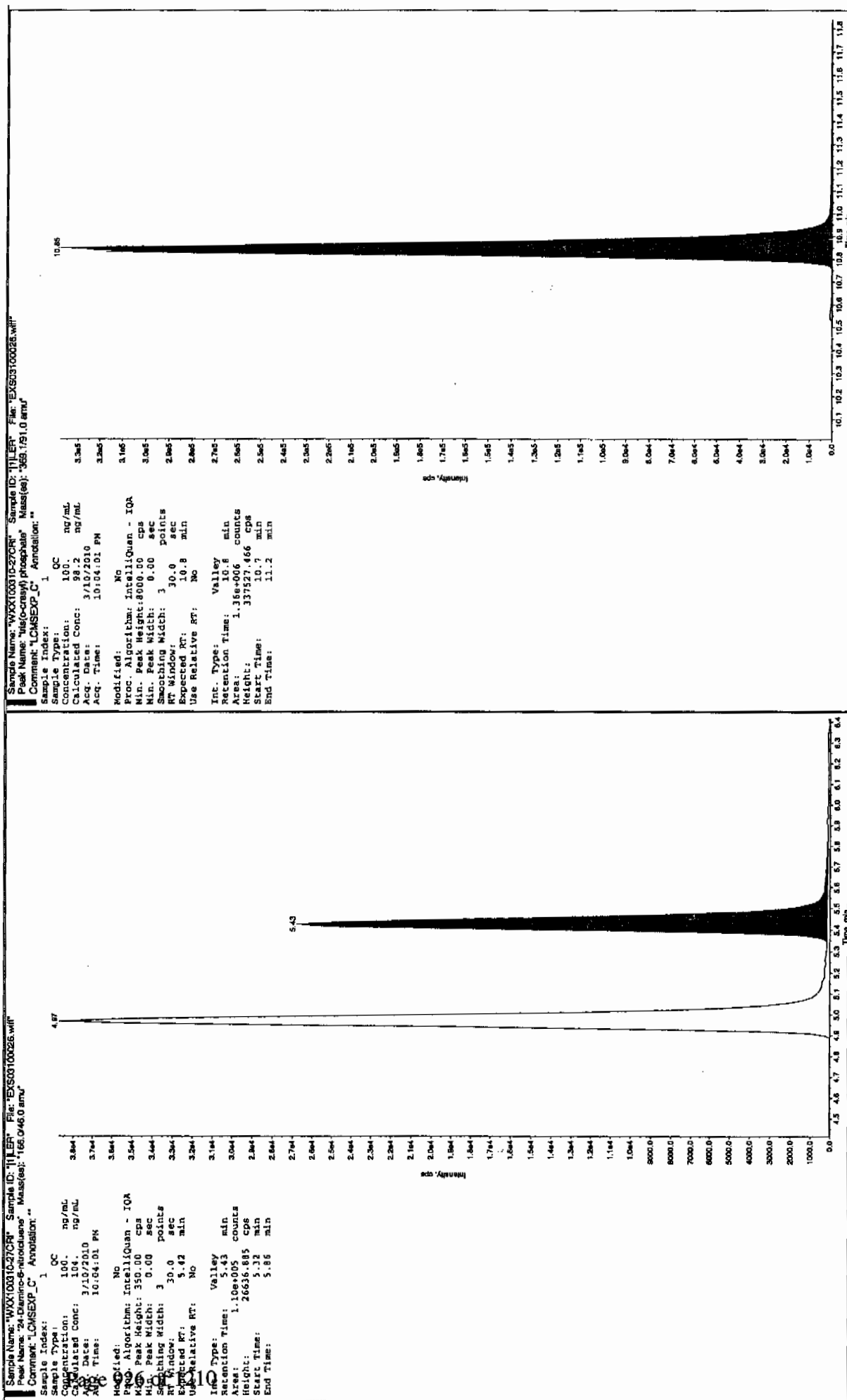
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

8/21/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100037.wiff

Analysis Date: 11-MAR-10 00:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	546	109	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	265	106	
3,5-Dinitroaniline	500	561	112	
TATB	500	471	94	
tris(o-cresyl) phosphate	500	478	96	

Recovery Limits:

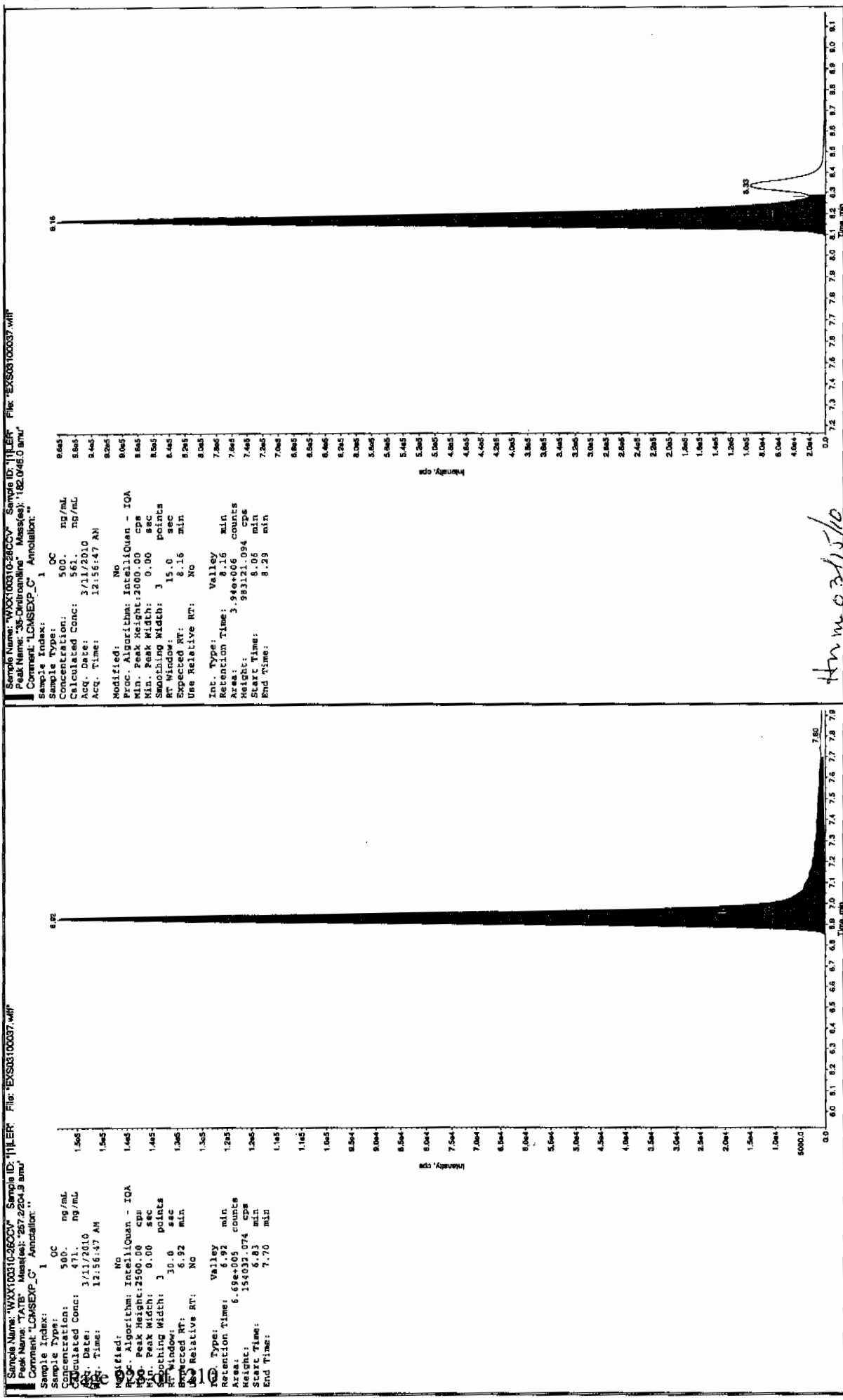
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

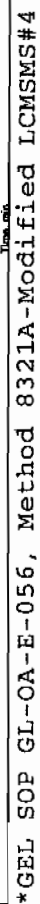
Column used to flag Recovery outside of Limits

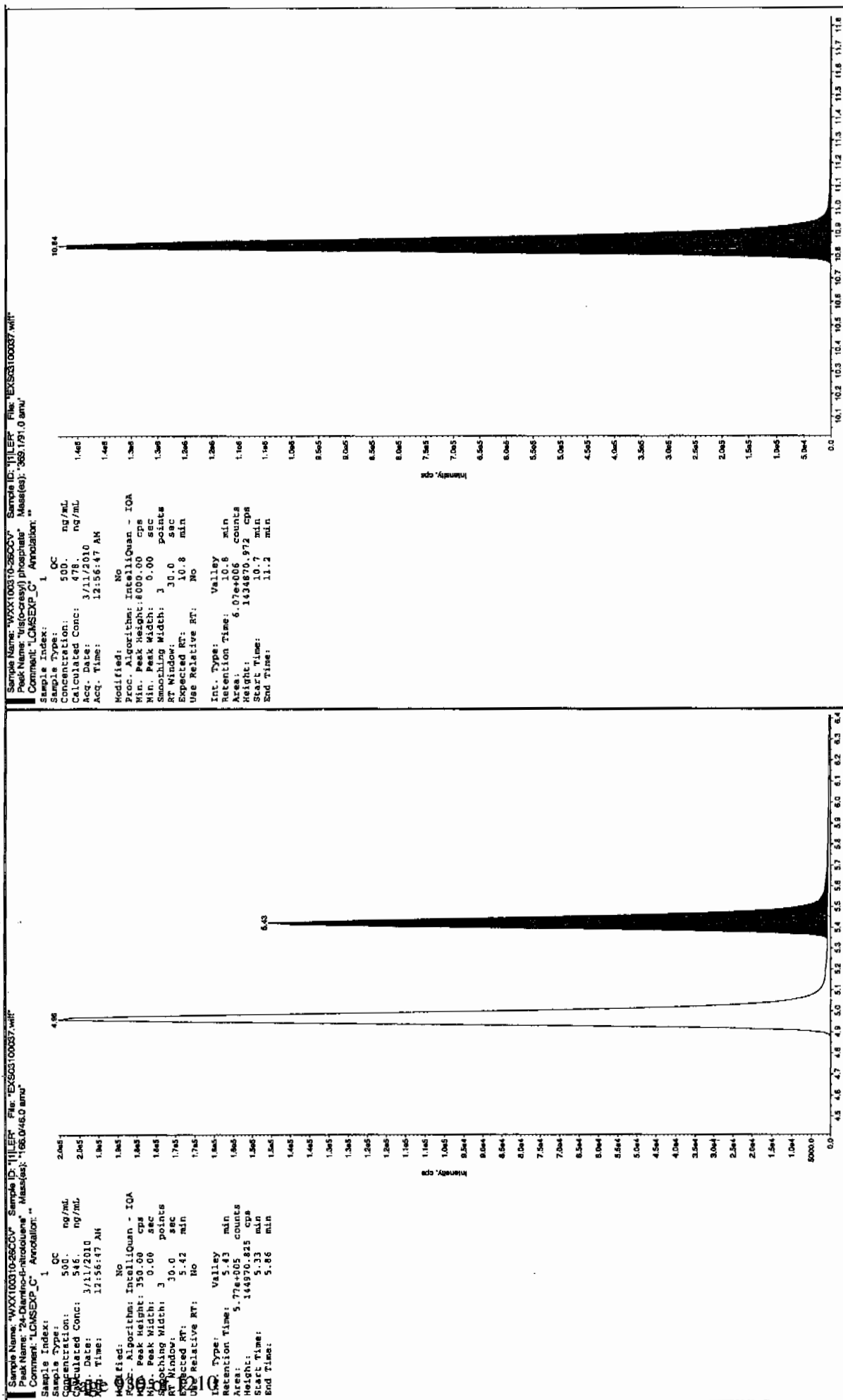
* Value outside of Recovery Limits

See 3/13/10



44m 03/15/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100039.wiff

Analysis Date: 11-MAR-10 01:28

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	108	108	
2,6-Diamino-4-nitrotoluene	100	107	107	
3,4-Dinitrotoluene	50	50.3	101	
3,5-Dinitroaniline	100	87.8	88	
TATB	100	93.6	94	
tris(o-cresyl) phosphate	100	95.4	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

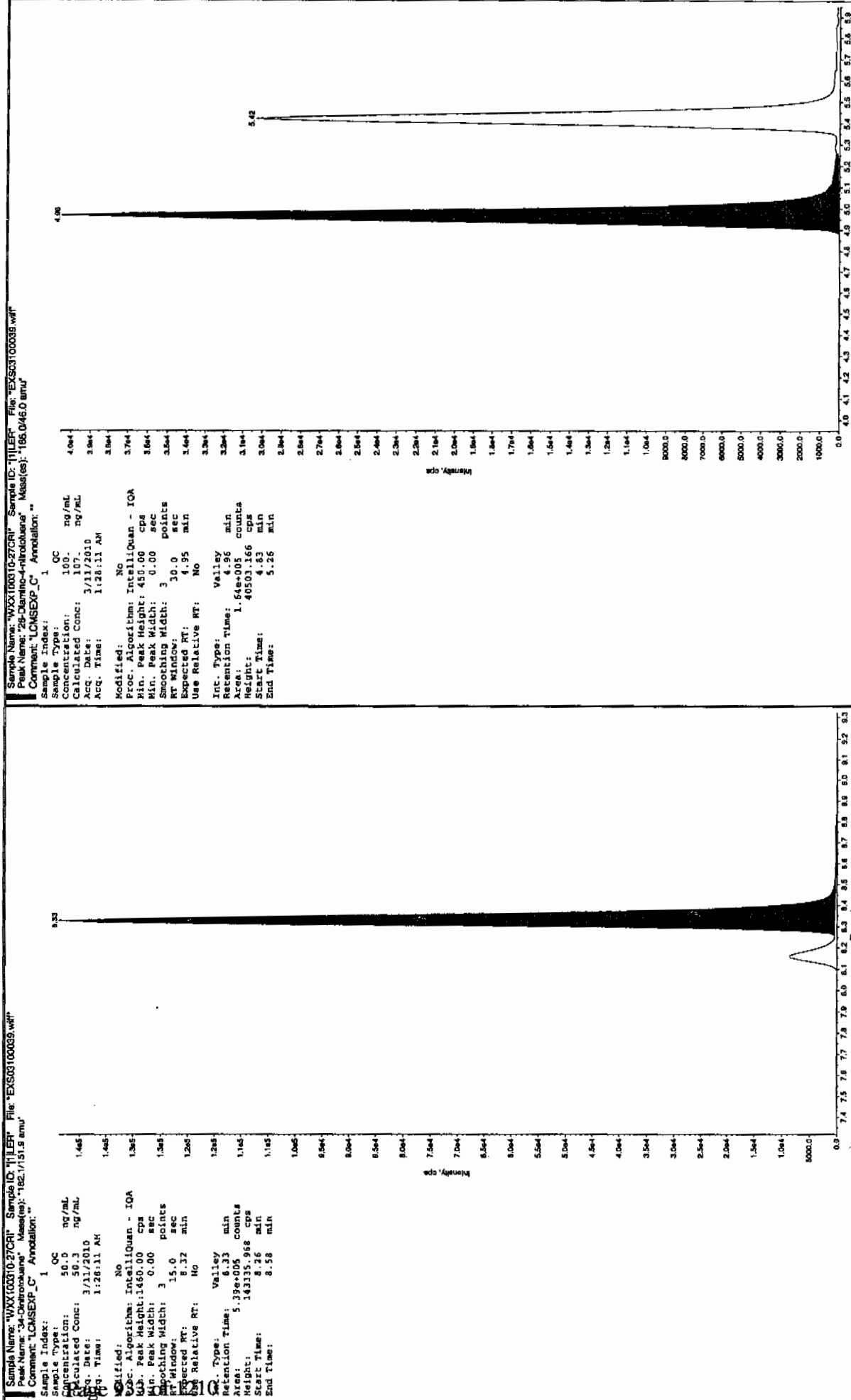
Column used to flag Recovery outside of Limits

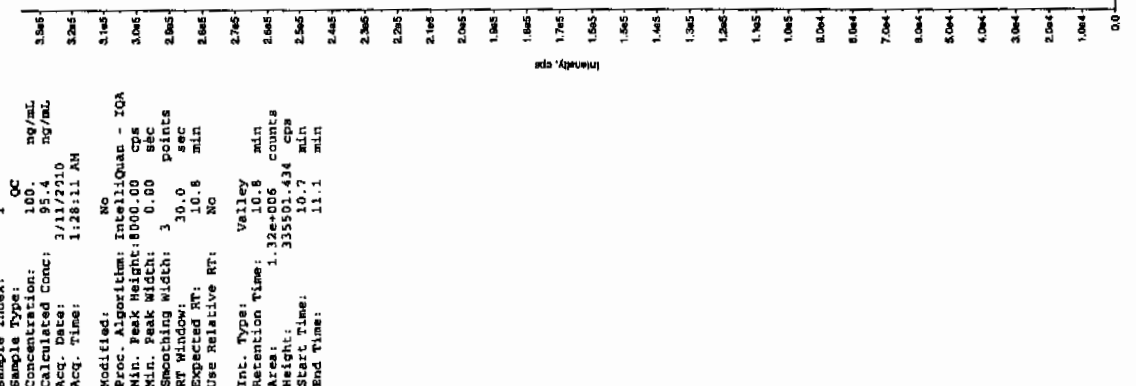
* Value outside of Recovery Limits

den 3/3/10

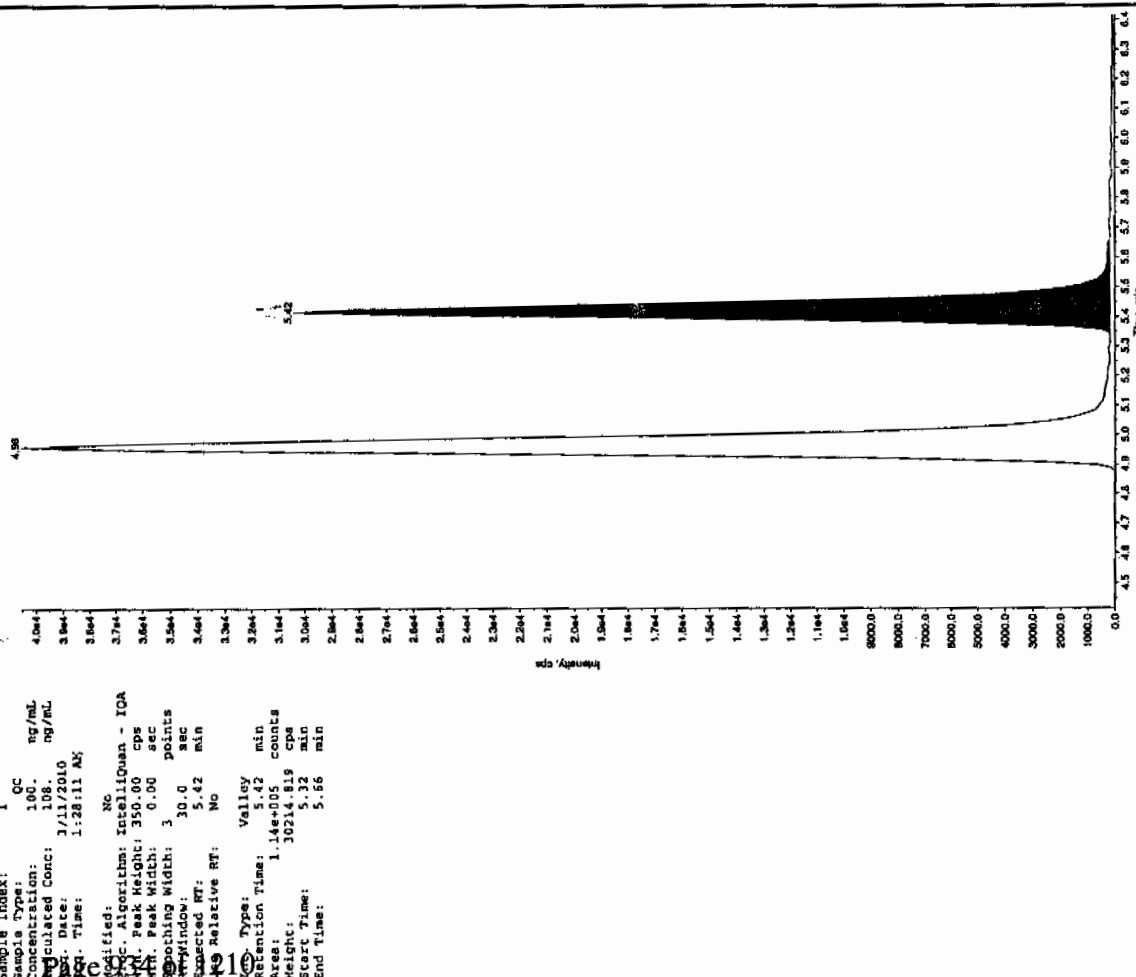


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





Sample Name: "WXX100310-27CH" Sample ID: "HILR" File: "EXS03100039.wiff"
Peak Name: "24-Diamino-6-nitrochlorane" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP C" Annotation: "



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100044.wiff

Analysis Date: 11-MAR-10 02:46

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	250	268	107	
3,5-Dinitroaniline	500	562	112	
TATB	500	493	99	
tris(o-cresyl) phosphate	500	470	94	
2,4-Diamino-6-nitrotoluene	500	566	113	
2,6-Diamino-4-nitrotoluene	500	543	109	

Recovery Limits:

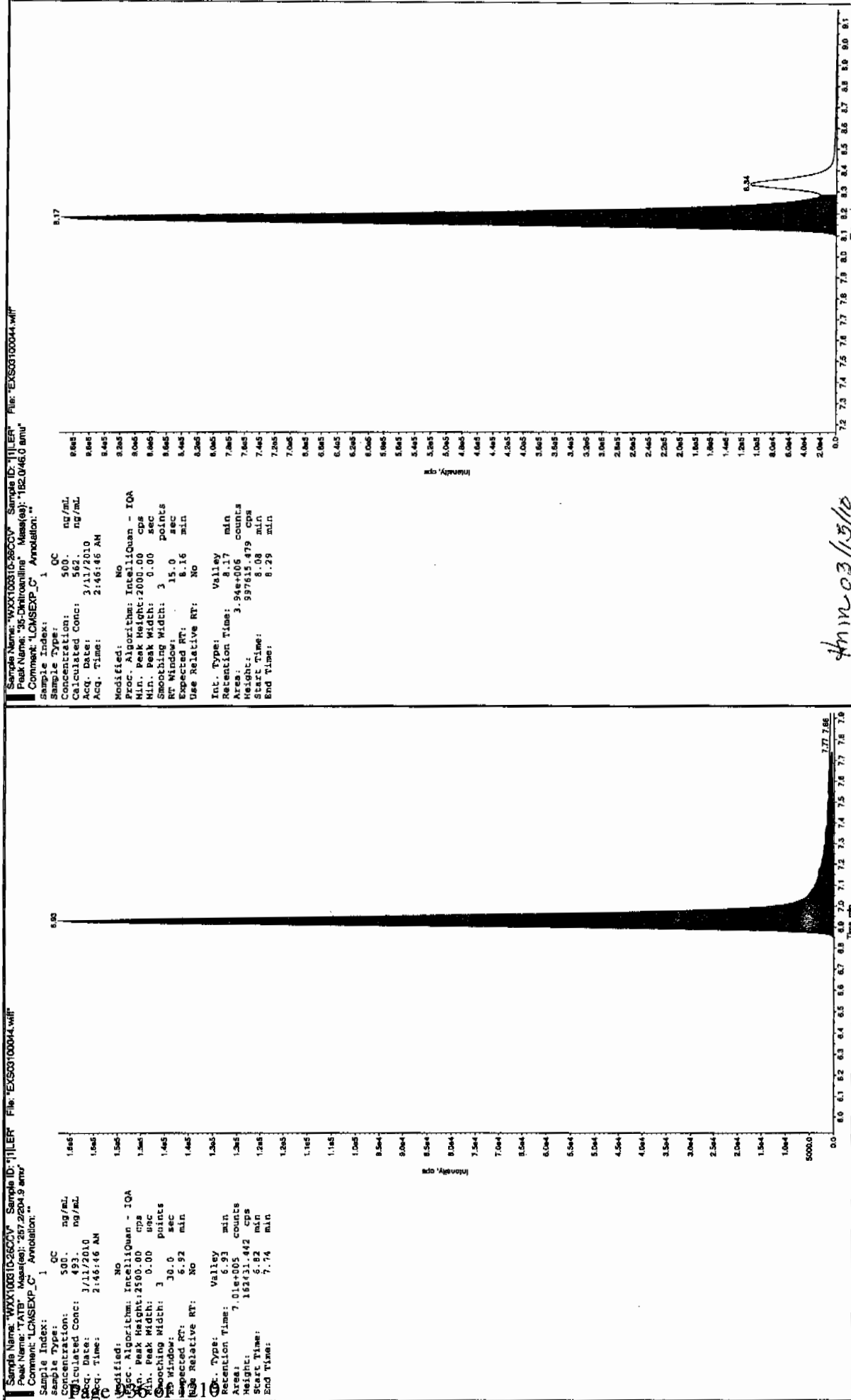
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

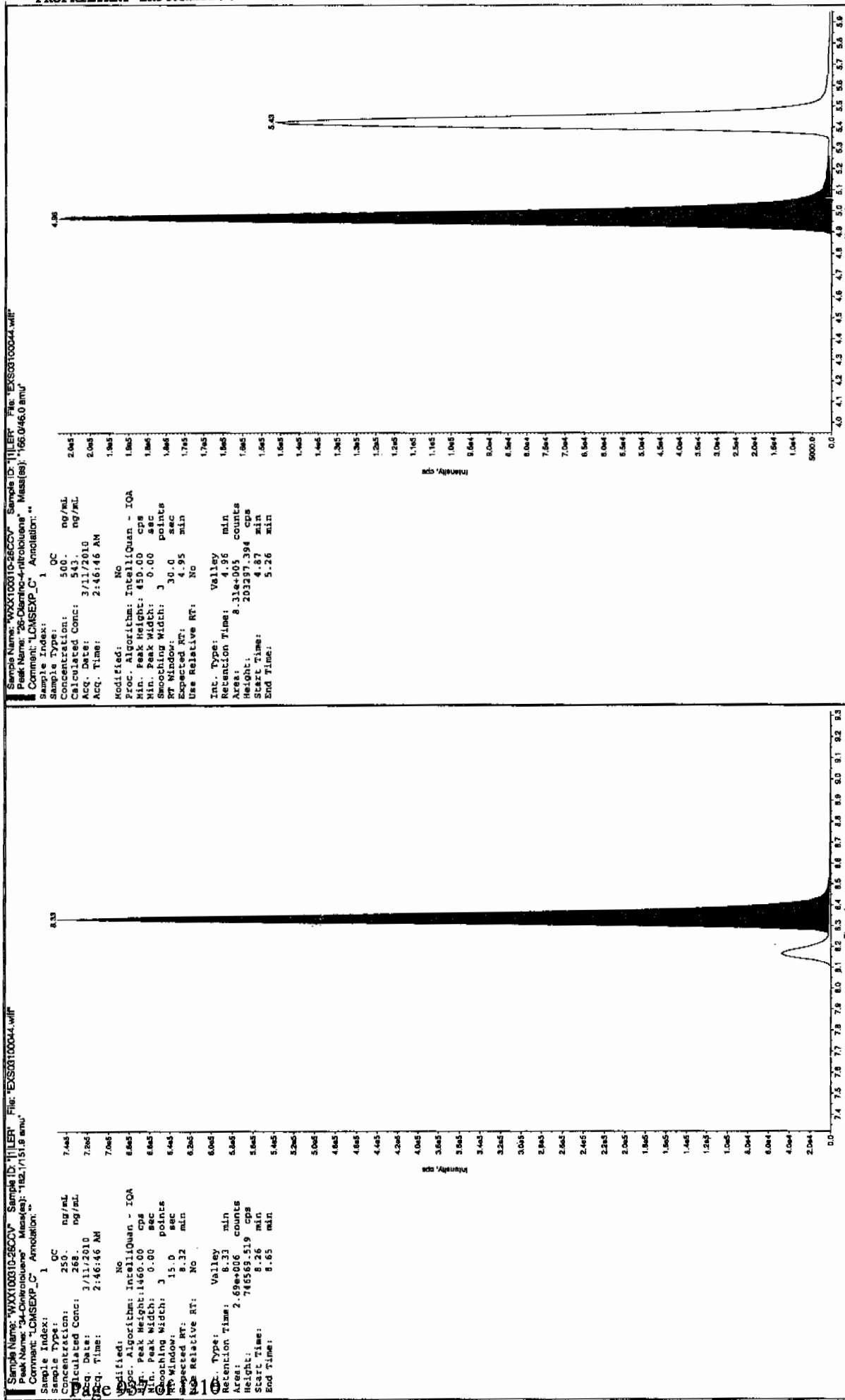
Column used to flag Recovery outside of Limits

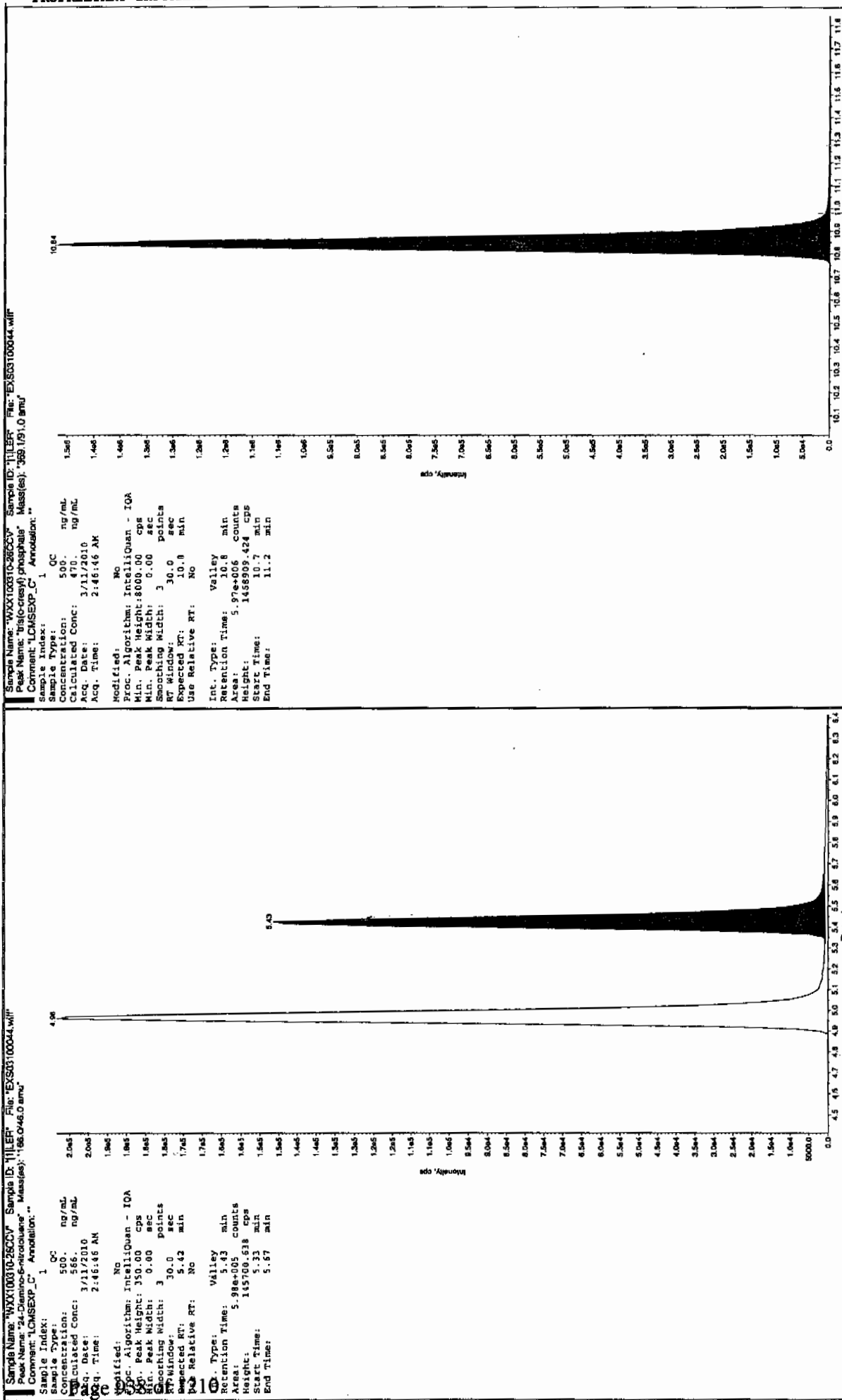
* Value outside of Recovery Limits

202 3/14/10



4 min 03/15/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100046.wiff

Analysis Date: 11-MAR-10 03:18

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	107	107	
2,6-Diamino-4-nitrotoluene	100	106	106	
3,4-Dinitrotoluene	50	50.3	101	
3,5-Dinitroaniline	100	91	91	
TATB	100	98.2	98	
tris(o-cresyl) phosphate	100	94.3	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

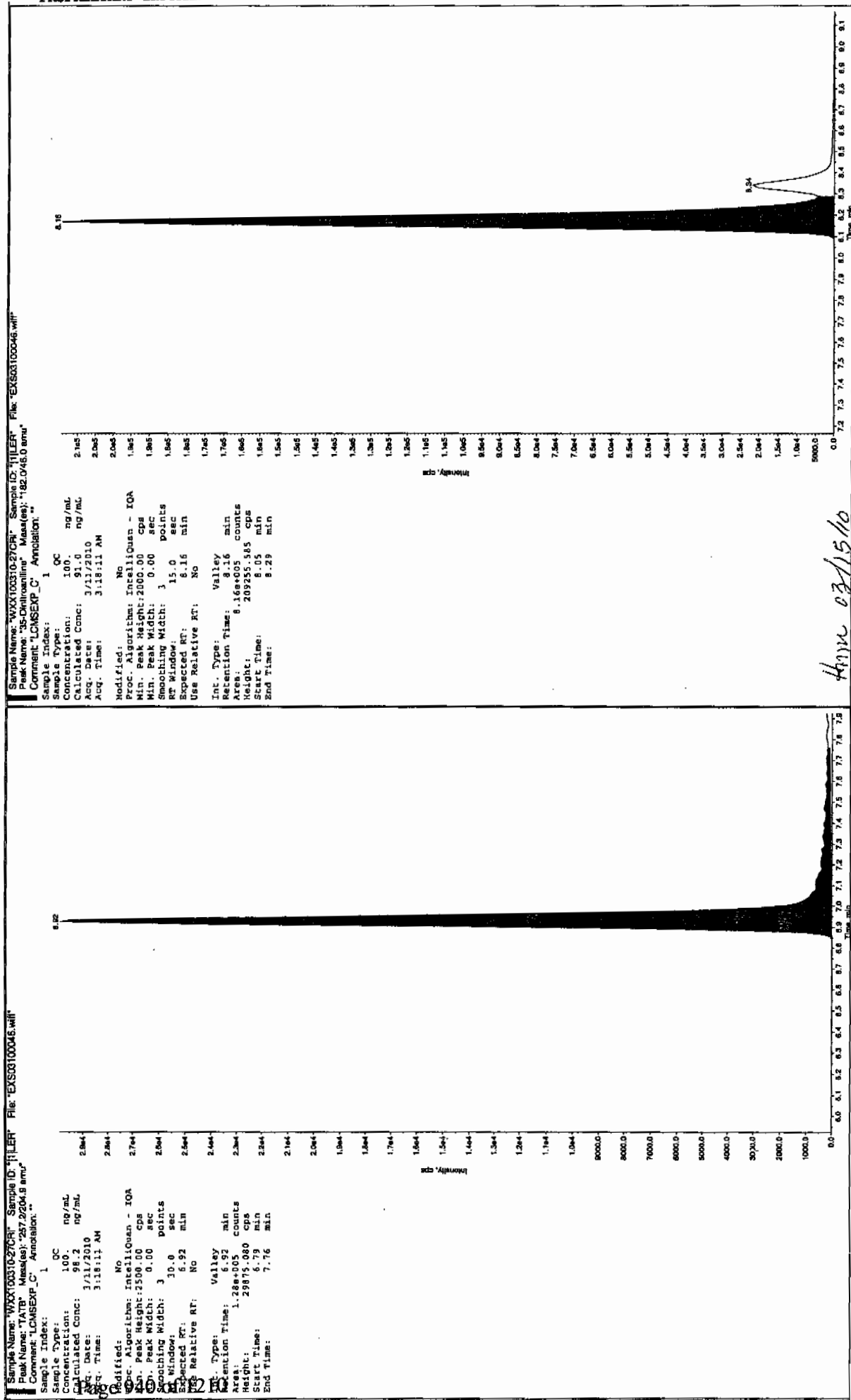
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

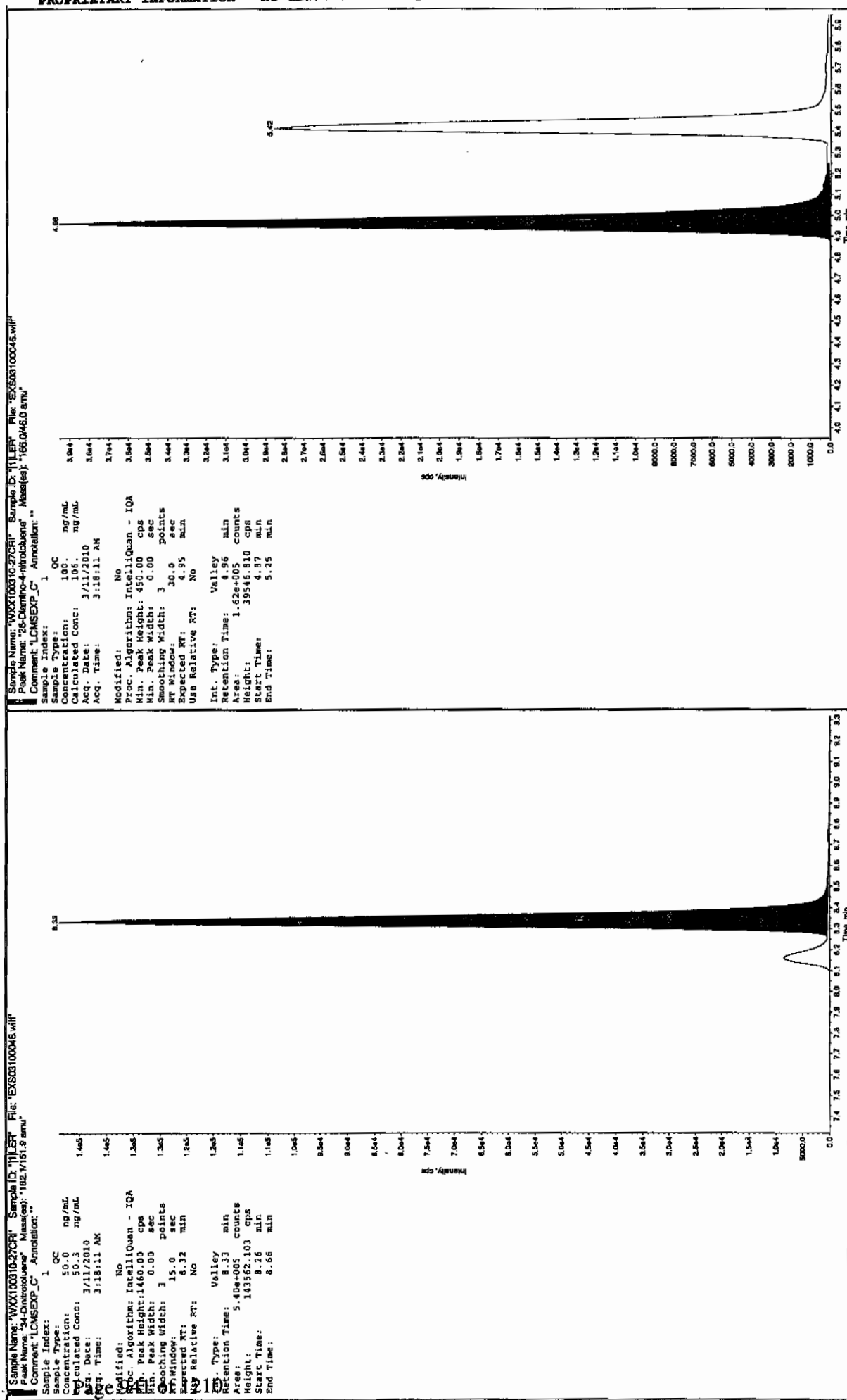
Column used to flag Recovery outside of Limits

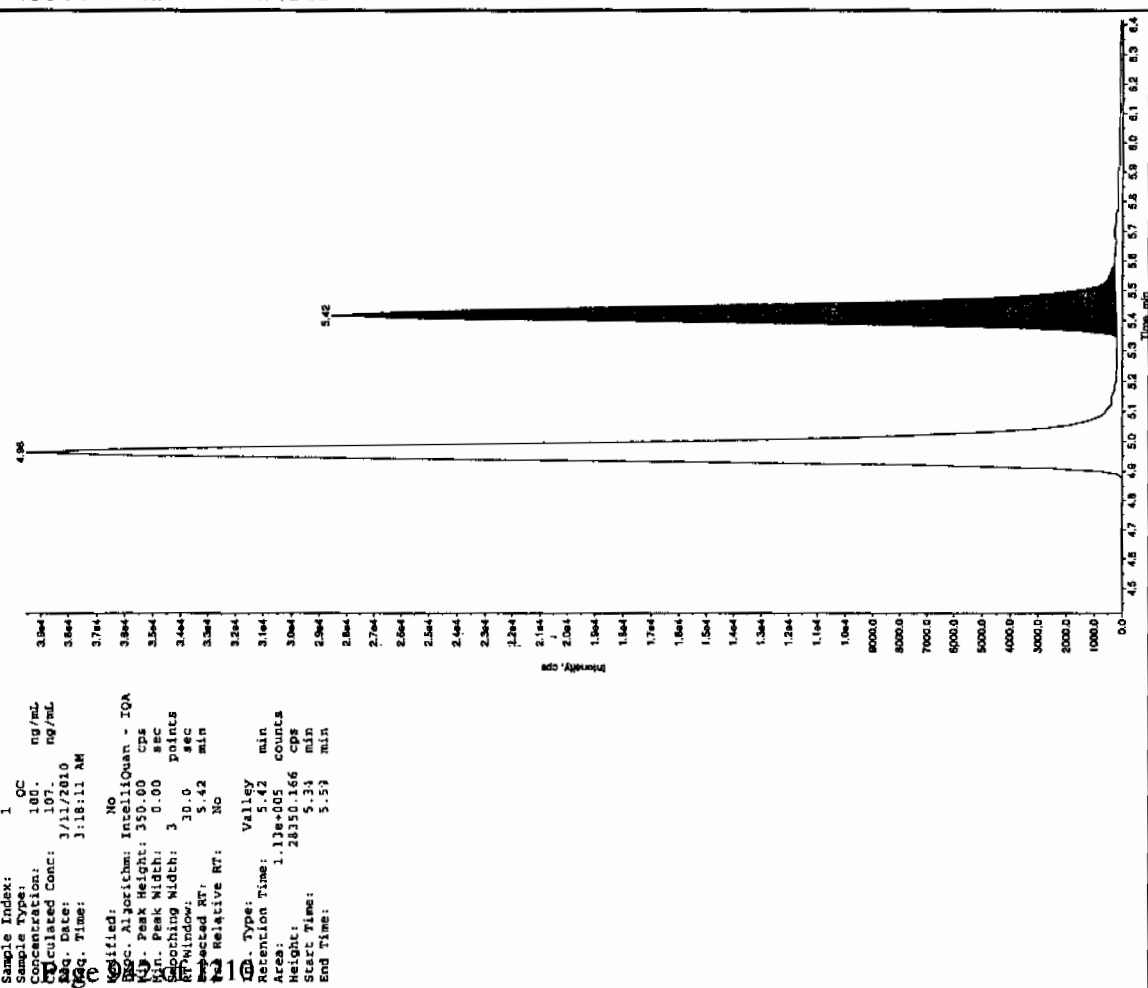
* Value outside of Recovery Limits

264 3/14/10



4mm 03/15/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100055.wiff

Analysis Date: 11-MAR-10 05:39

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	576	115	
2,6-Diamino-4-nitrotoluene	500	535	107	
3,4-Dinitrotoluene	250	266	106	
3,5-Dinitroaniline	500	568	114	
TATB	500	489	98	
tris(o-cresyl) phosphate	500	491	98	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

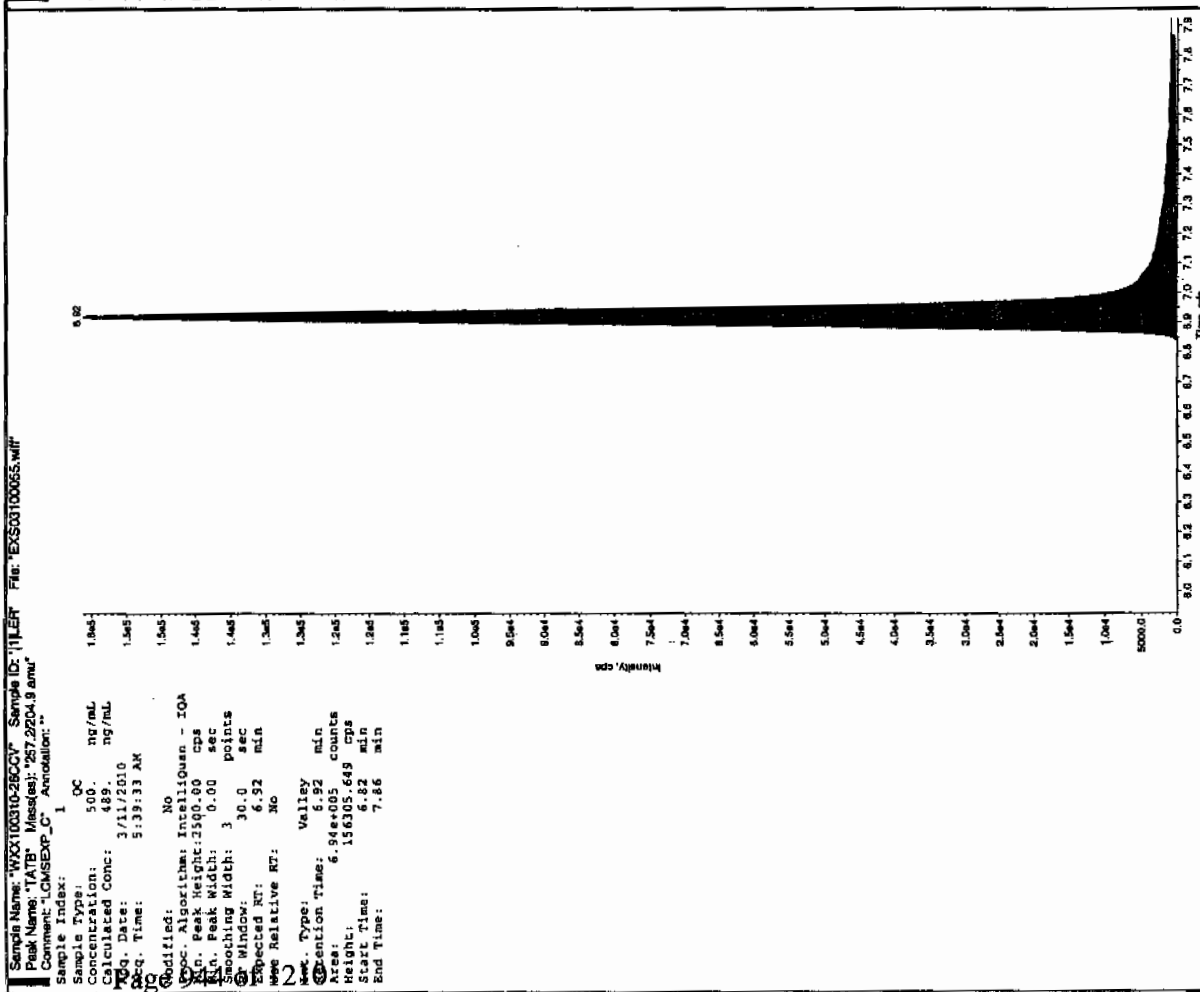
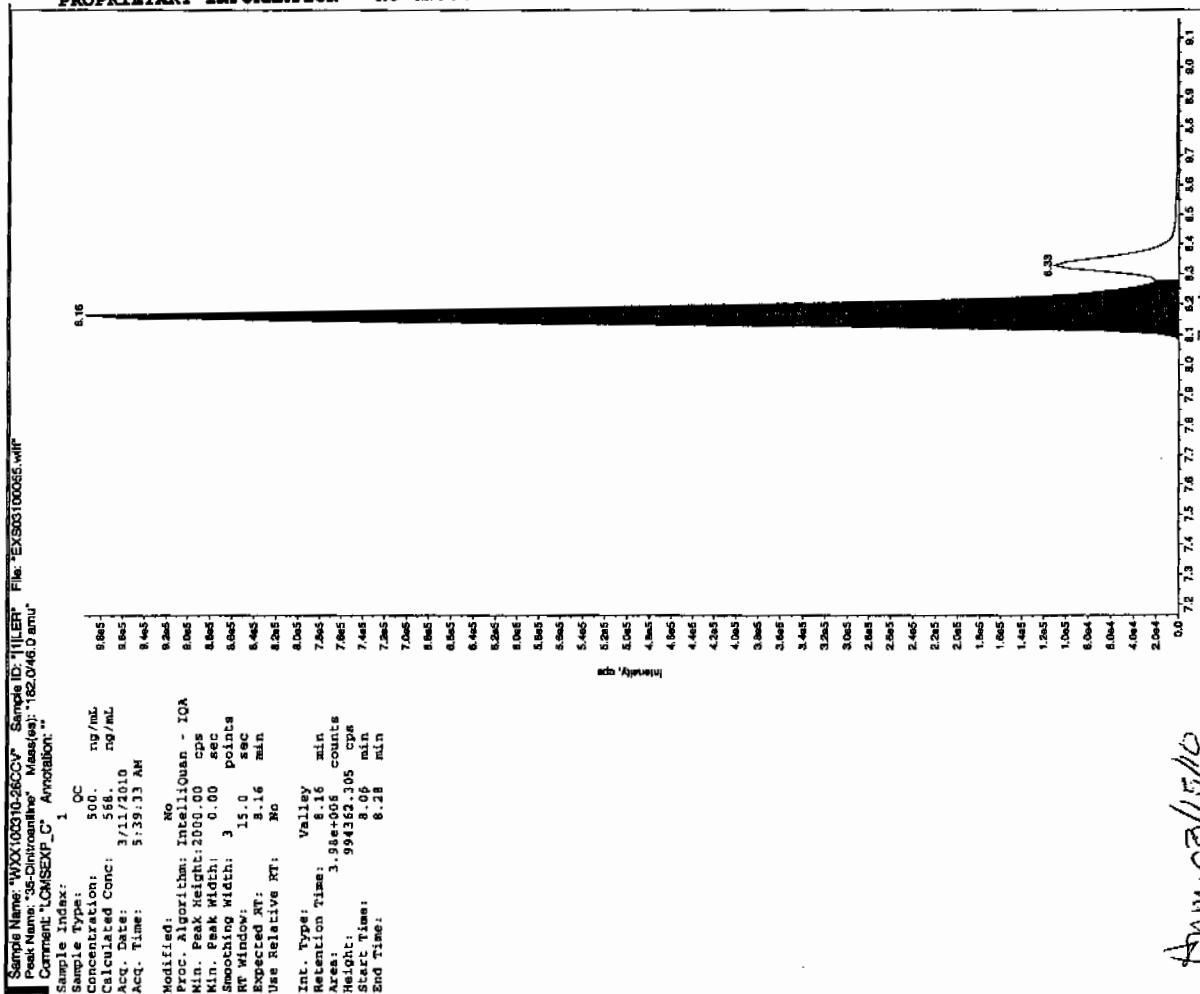
2,4-Diamino-6-nitrotoluene 70-130%

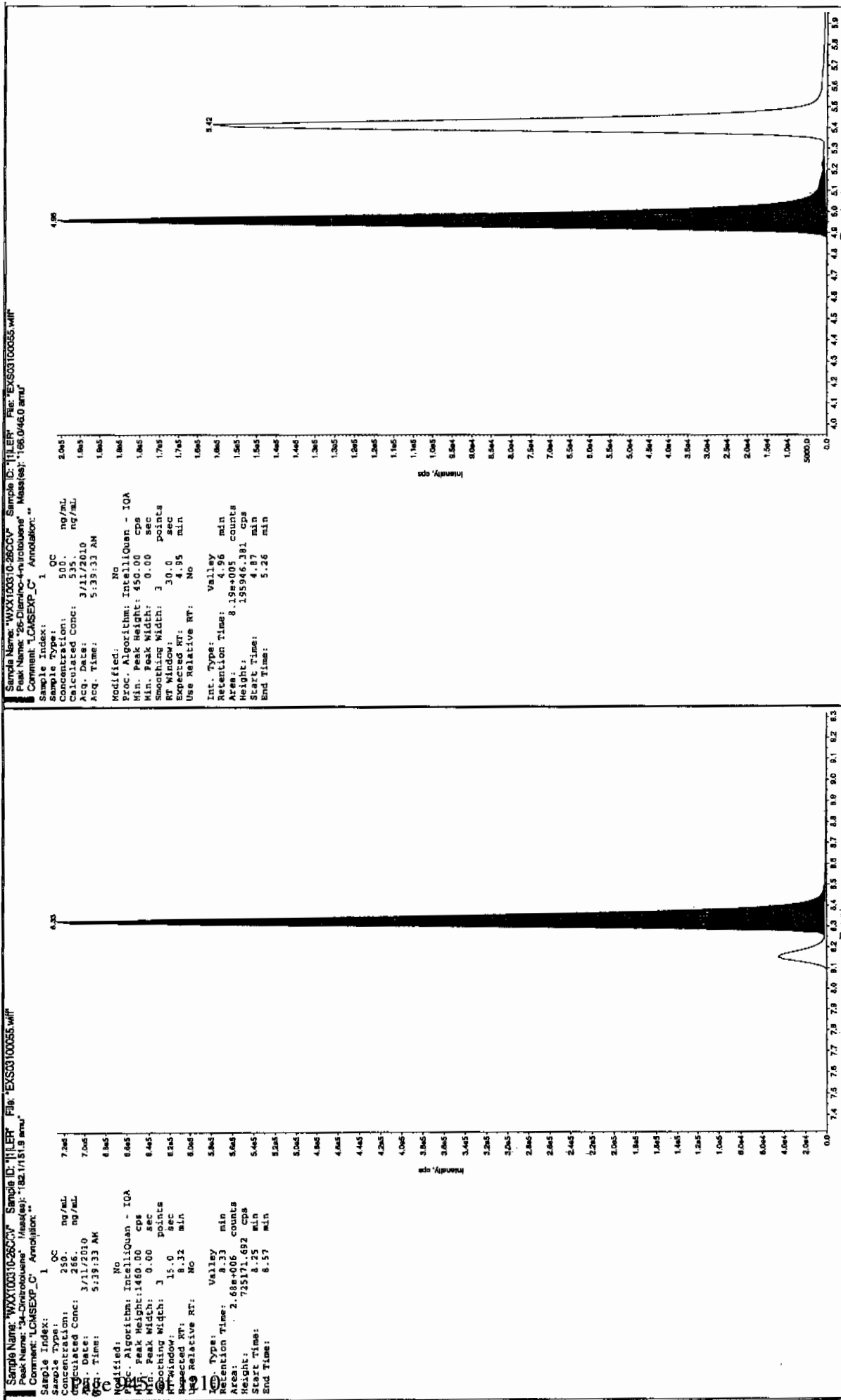
Other Target Analytes 80-120%

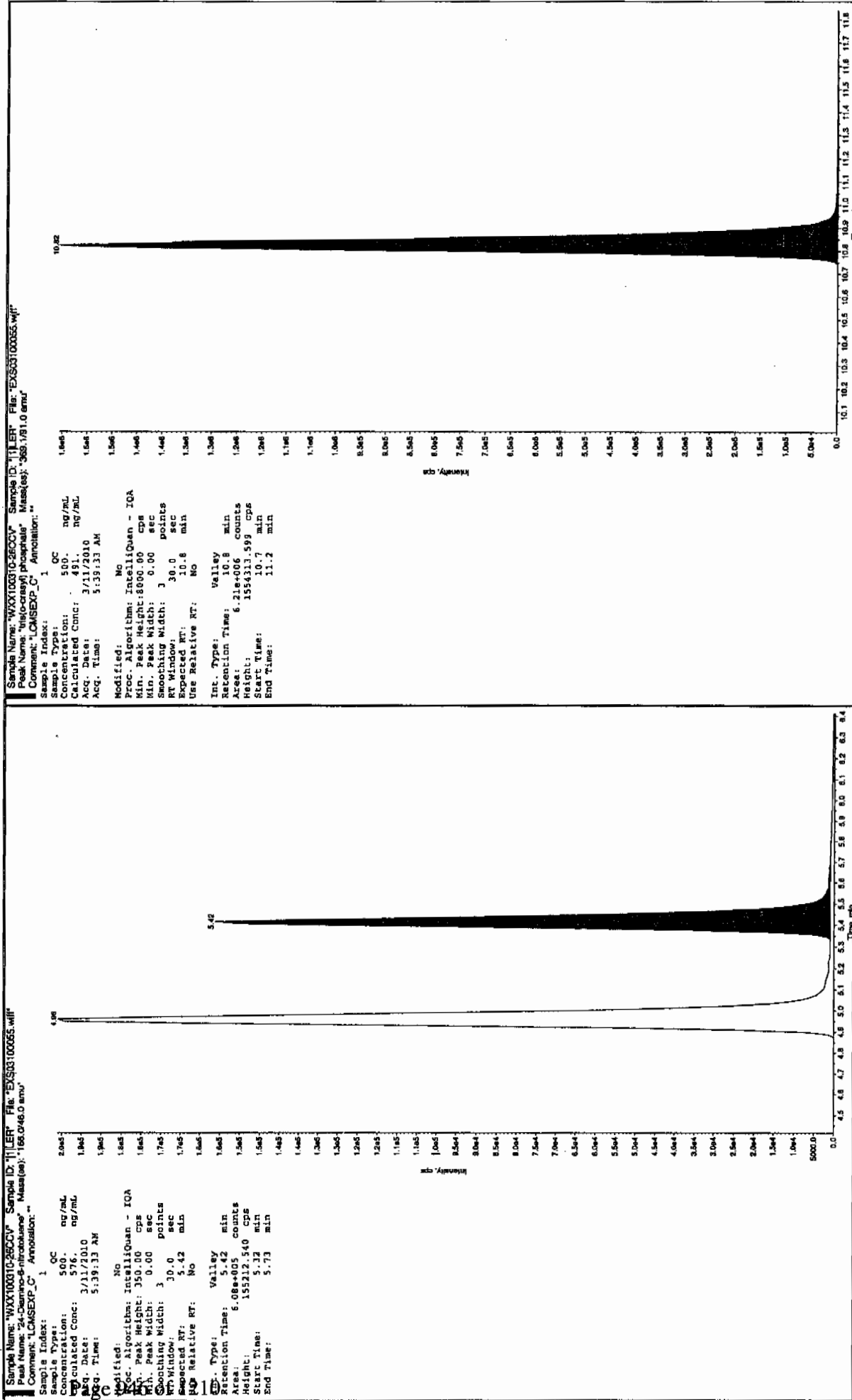
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

dan 3/14/00







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100057.wiff

Analysis Date: 11-MAR-10 06:10

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	111	111	
2,6-Diamino-4-nitrotoluene	100	114	114	
3,4-Dinitrotoluene	50	52.3	105	
3,5-Dinitroaniline	100	92.3	92	
TATB	100	95.8	96	
tris(o-cresyl) phosphate	100	94.8	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GLW 3/14/00

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "NXX1003102709" Sample ID: "11LER" File: "EXS03100057.wif"

Peak Name: "TATP" Mass(es): 257.204.6 and 257.204.6

Comment: "LCMSXP_C" Annotation: "1"

Sample Index: 1

Sample Type: 100. ng/mL

Concentration: 92.3 ng/mL

Calculated Conc: 3/11/2010

Acq. Date: 6:10:58 AM

Acq. Time: 6:10:58 AM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Valley

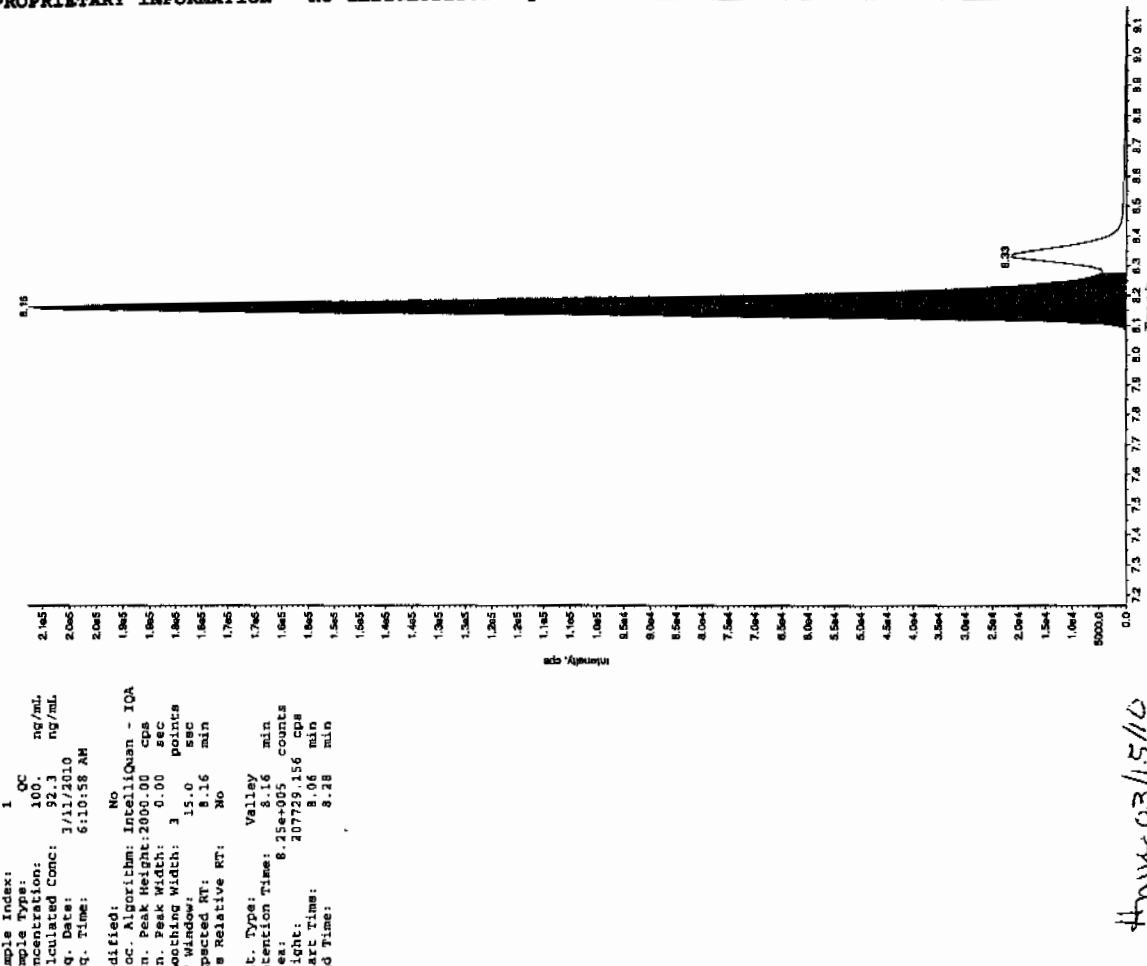
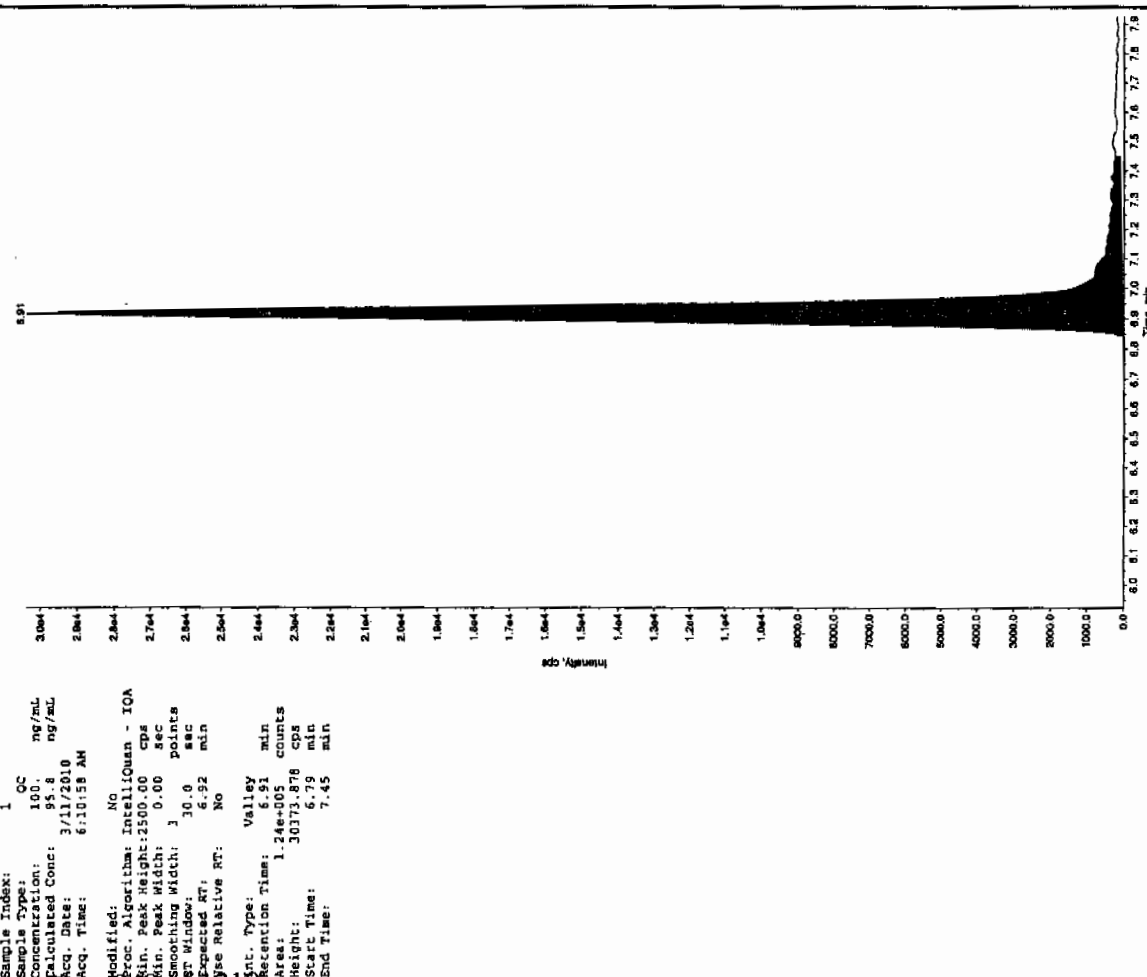
Retention Time: 8.16 min

Area: 8.25e+005 counts

Height: 207729.156 cps

Start Time: 8.16 min

End Time: 8.28 min

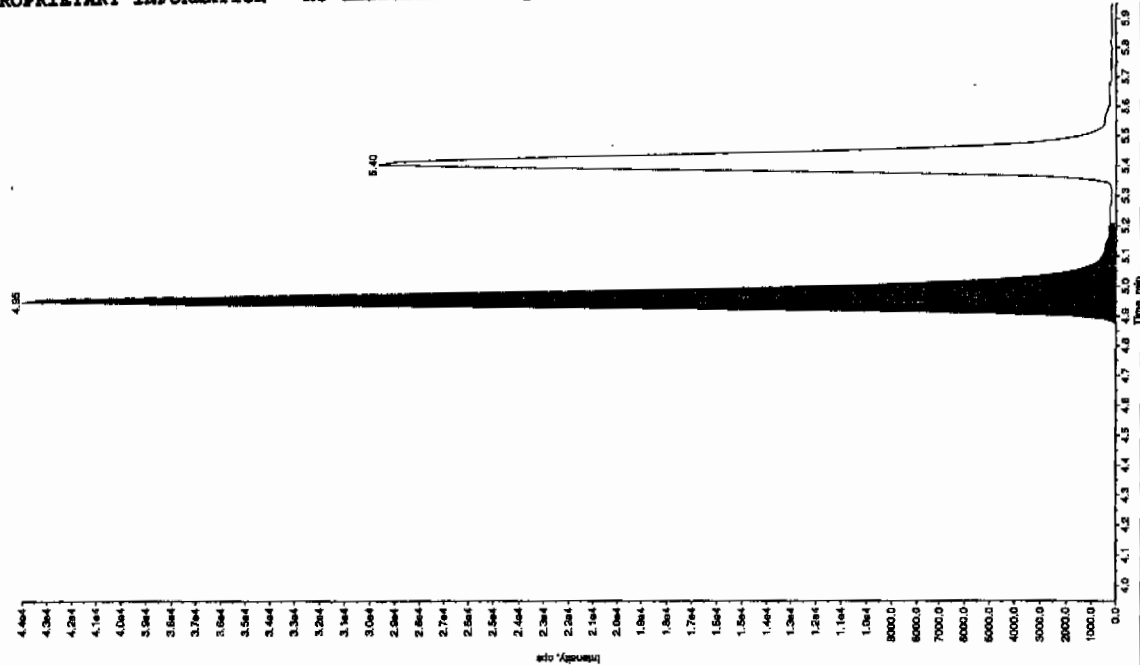


4/11/00 03/15/00

*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

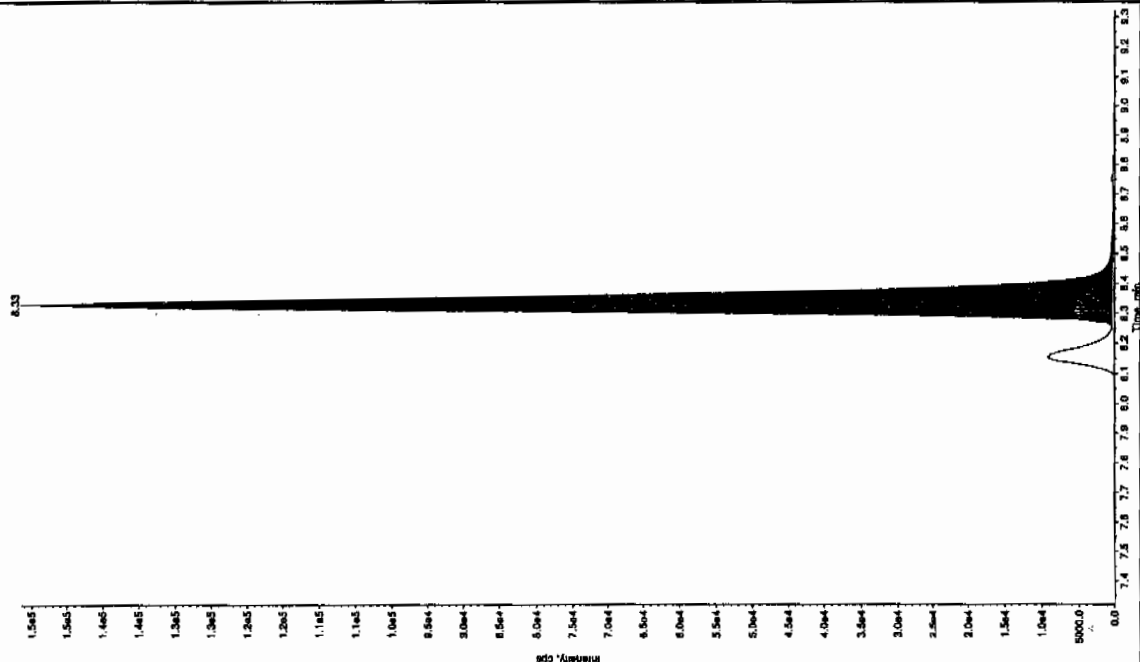
Sample Name: WXX10010-27051 Sample ID: 111EP File: EXS03100057.wif
Peak Name: 26-Diamino-4-nitrotoluene Mass(es): 155.046.0 amu
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
Sample Type: 4.044
Concentration: 100 ng/mL
Calculated Conc: 114. ng/mL
Acq. Date: 3/11/2010
Acq. Time: 6:10:58 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 4.95 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 4.95 min
Area: 1.74e+005 counts
Height: 43974.716 cps
Start Time: 4.87 min
End Time: 5.21 min



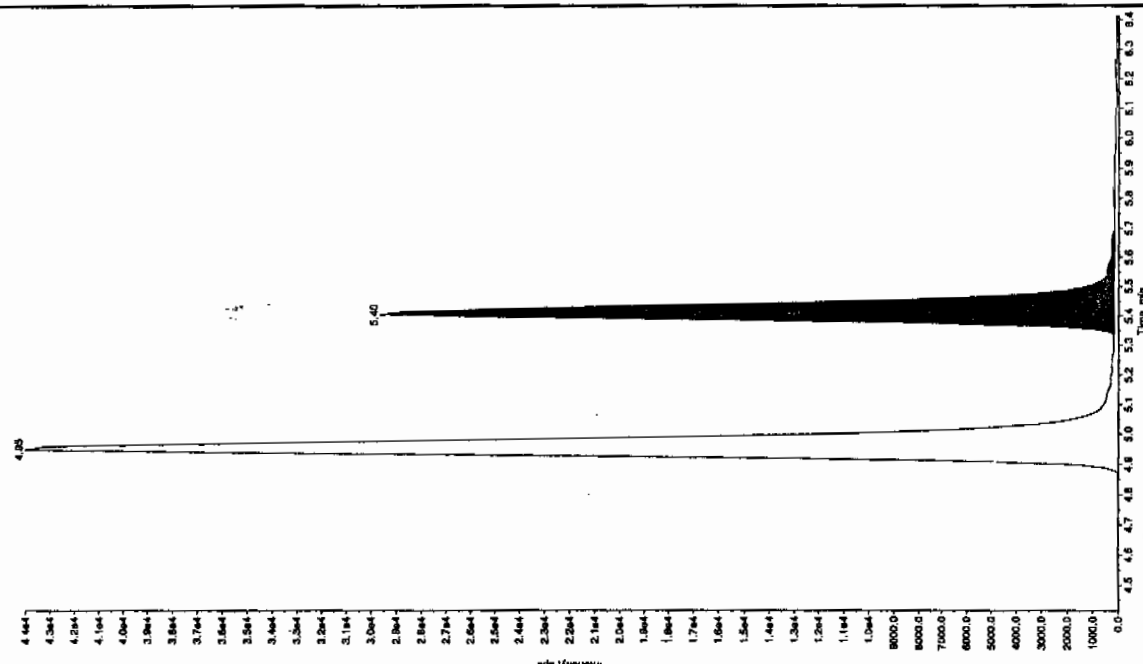
Sample Name: WXX10010-27051 Sample ID: 111EP File: EXS03100057.wif
Peak Name: 26-Diamino-4-nitrotoluene Mass(es): 152.1751.9 amu
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
Sample Type: 1.565
Concentration: 50.0 ng/mL
Calculated Conc: 52.3 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 6:10:58 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.32 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.32 min
Area: 5.53e+003 counts
Height: 151058.655 cps
Start Time: 8.26 min
End Time: 8.65 min



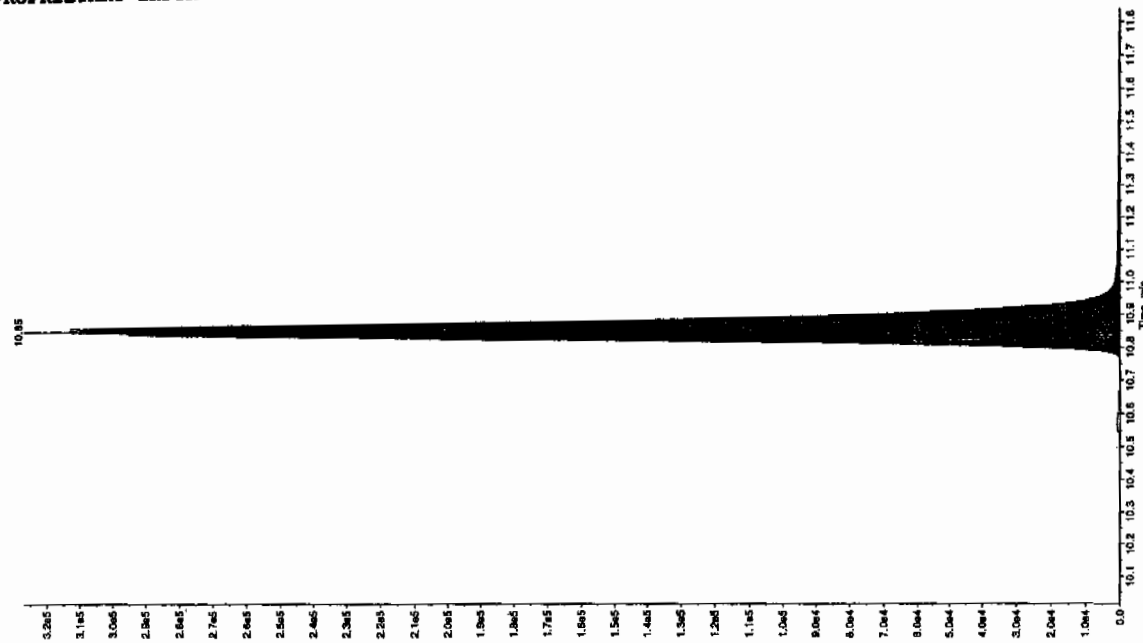
Sample Name: "WXX100310-27CR" Sample ID: "111ER" Flag: "EXS03100057.wit"
 Peak Name: "24-Diamino-5-nitrothiophene" Mass(es): "180.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 94.8 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:10:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.31e+006 counts
 Height: 326508.972 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Sample Name: "WXX100310-27CR" Sample ID: "111ER" Flag: "EXS03100057.wit"
 Peak Name: "tris-(o-cresyl) phosphite" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 94.8 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:10:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.31e+006 counts
 Height: 326508.972 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100066.wiff

Analysis Date: 11-MAR-10 08:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	457	91	
2,6-Diamino-4-nitrotoluene	500	480	96	
3,4-Dinitrotoluene	250	240	96	
3,5-Dinitroaniline	500	501	100	
TATB	500	485	97	
tris(o-cresyl) phosphate	500	471	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

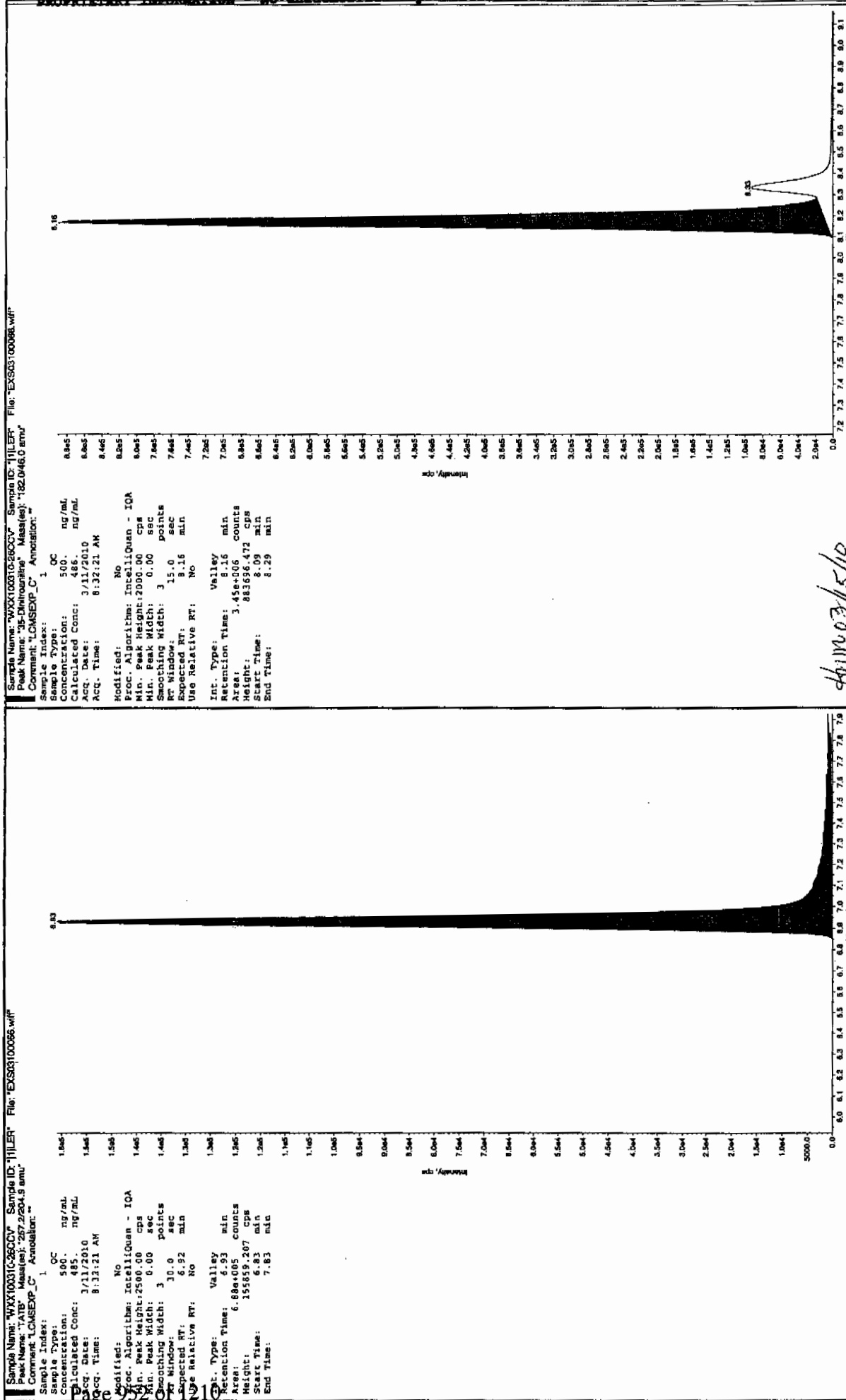
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

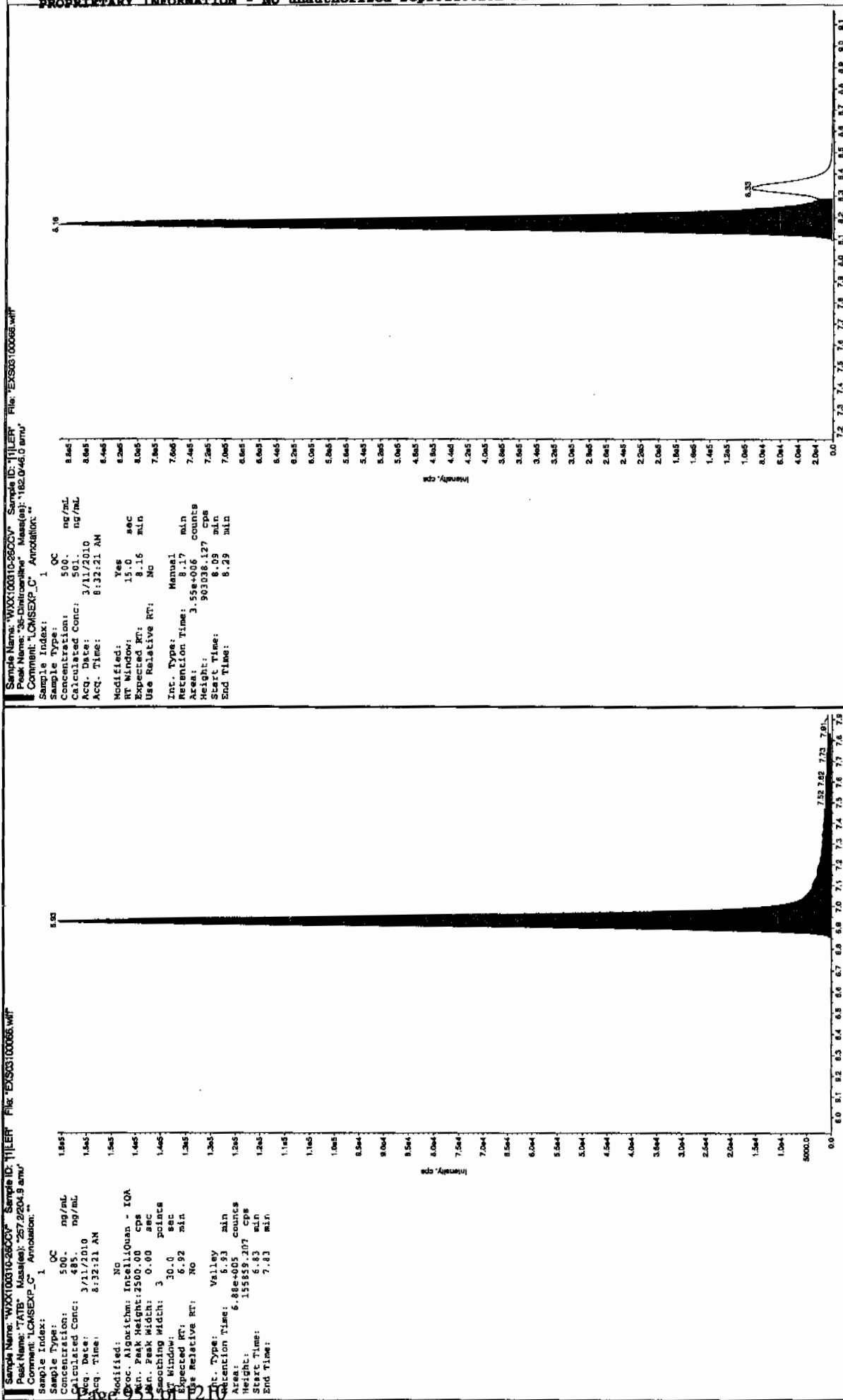
* Value outside of Recovery Limits

Before Jan 3/13/10

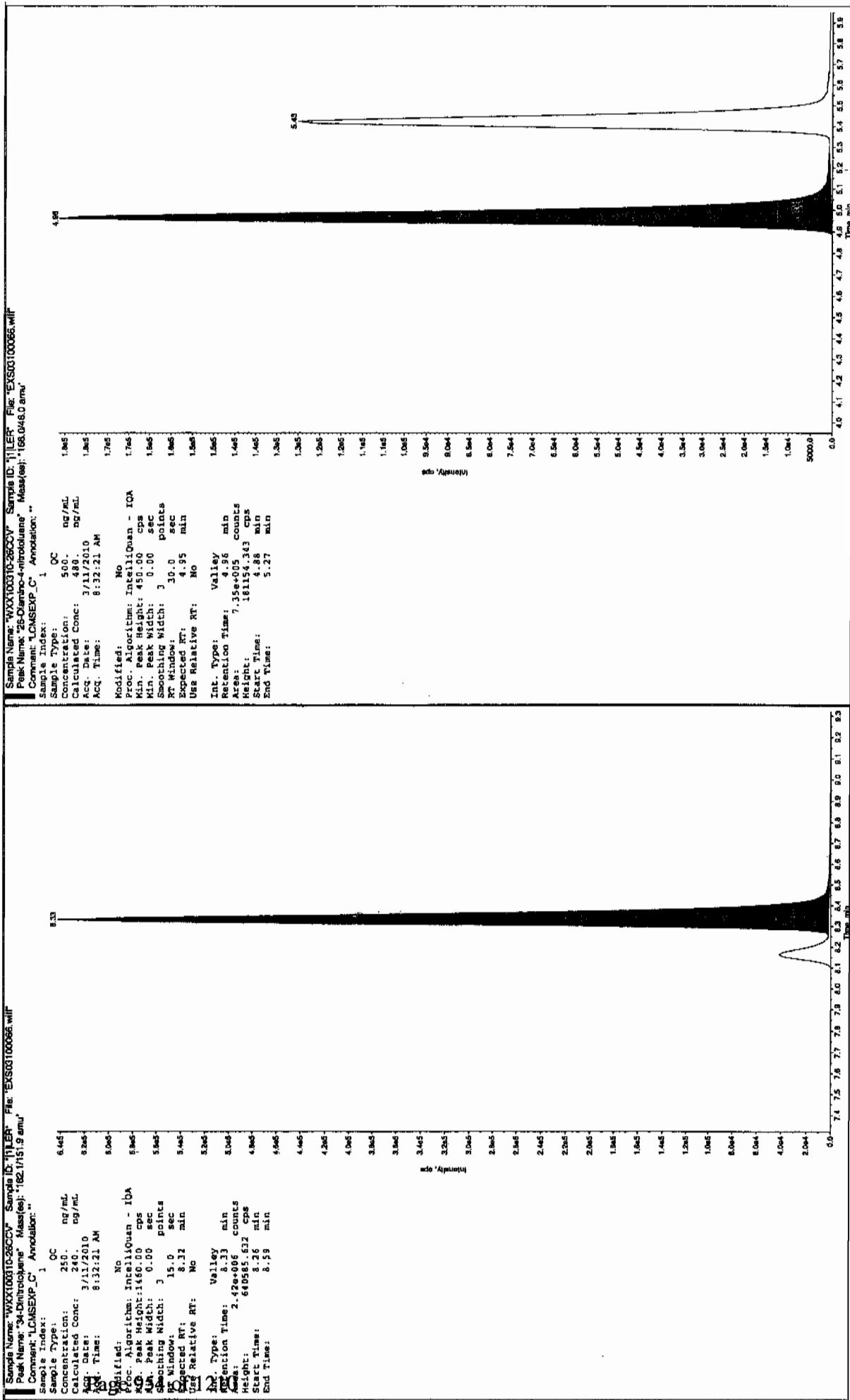


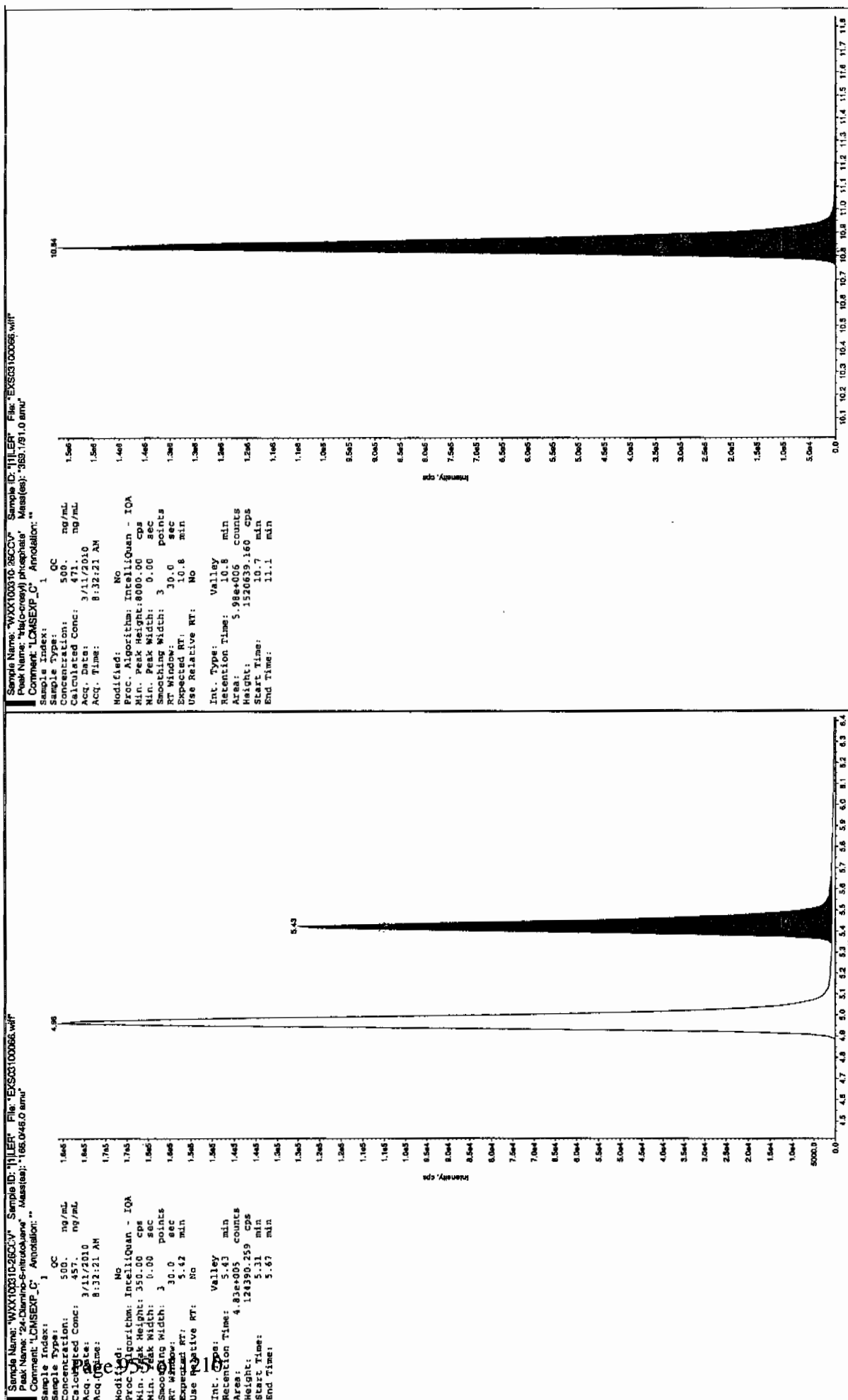
after den 3/14/10

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*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100068.wiff

Analysis Date: 11-MAR-10 09:03

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	100	93.5	94	
2,4-Diamino-6-nitrotoluene	100	93.6	94	
2,6-Diamino-4-nitrotoluene	100	95.6	96	
3,4-Dinitrotoluene	50	47.8	96	
3,5-Dinitroaniline	100	82.2	82	
TATB	100	91.3	91	

Recovery Limits:

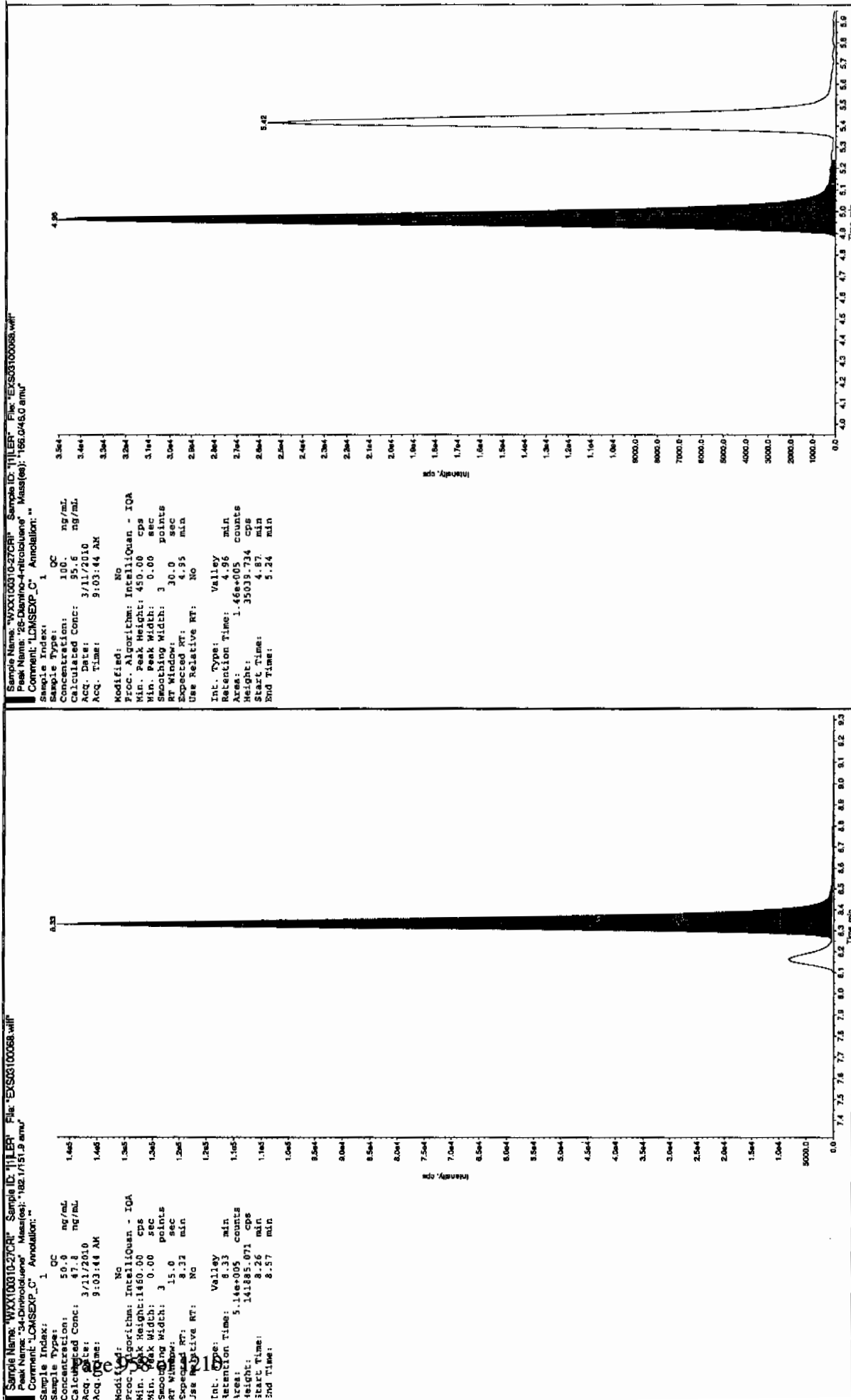
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

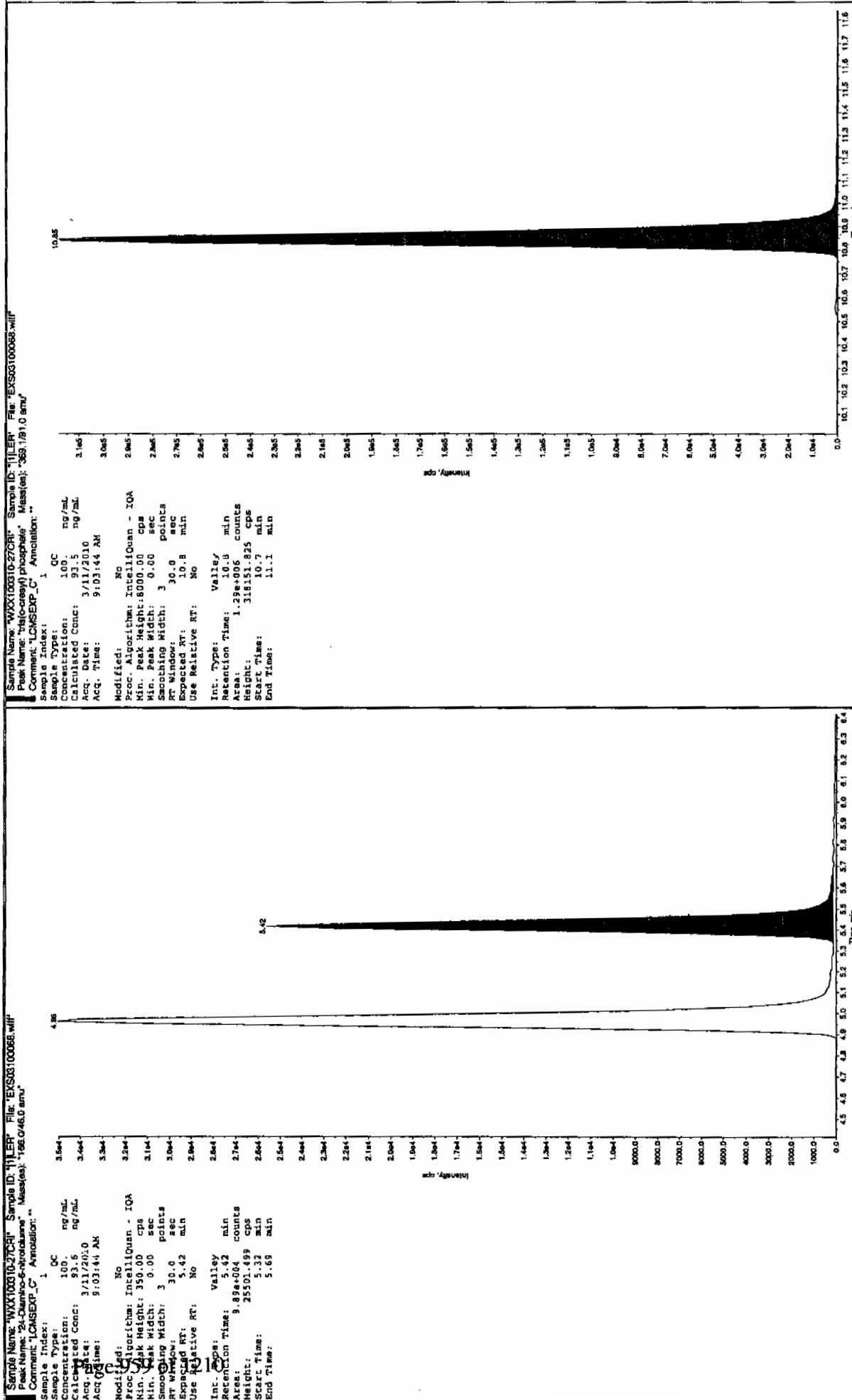
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits





7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100079.wiff

Analysis Date: 11-MAR-10 11:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	479	96	
2,6-Diamino-4-nitrotoluene	500	499	100	
3,4-Dinitrotoluene	250	252	101	
3,5-Dinitroaniline	500	515	103	
TATB	500	463	93	
tris(o-cresyl) phosphate	500	464	93	

Recovery Limits:

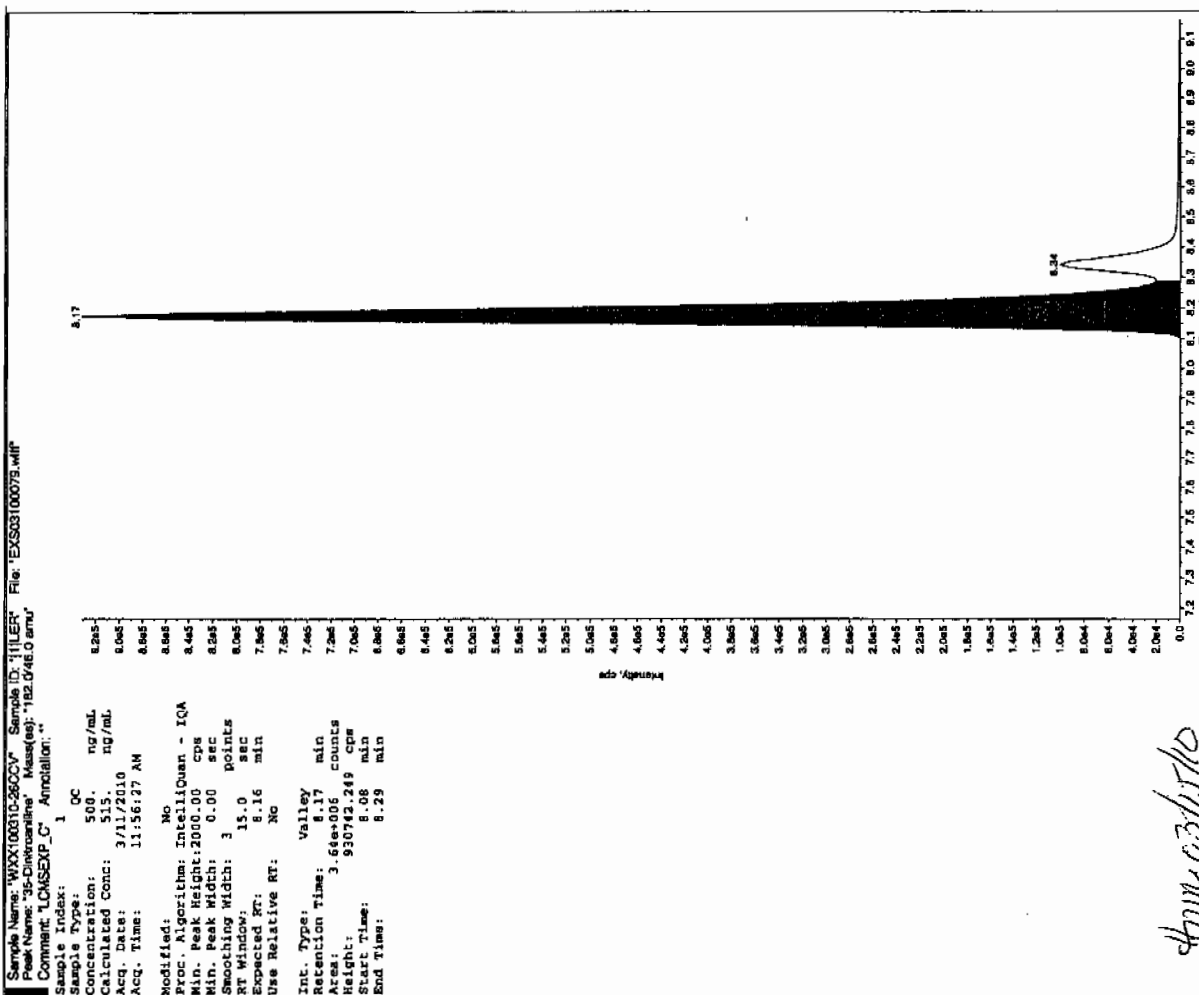
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

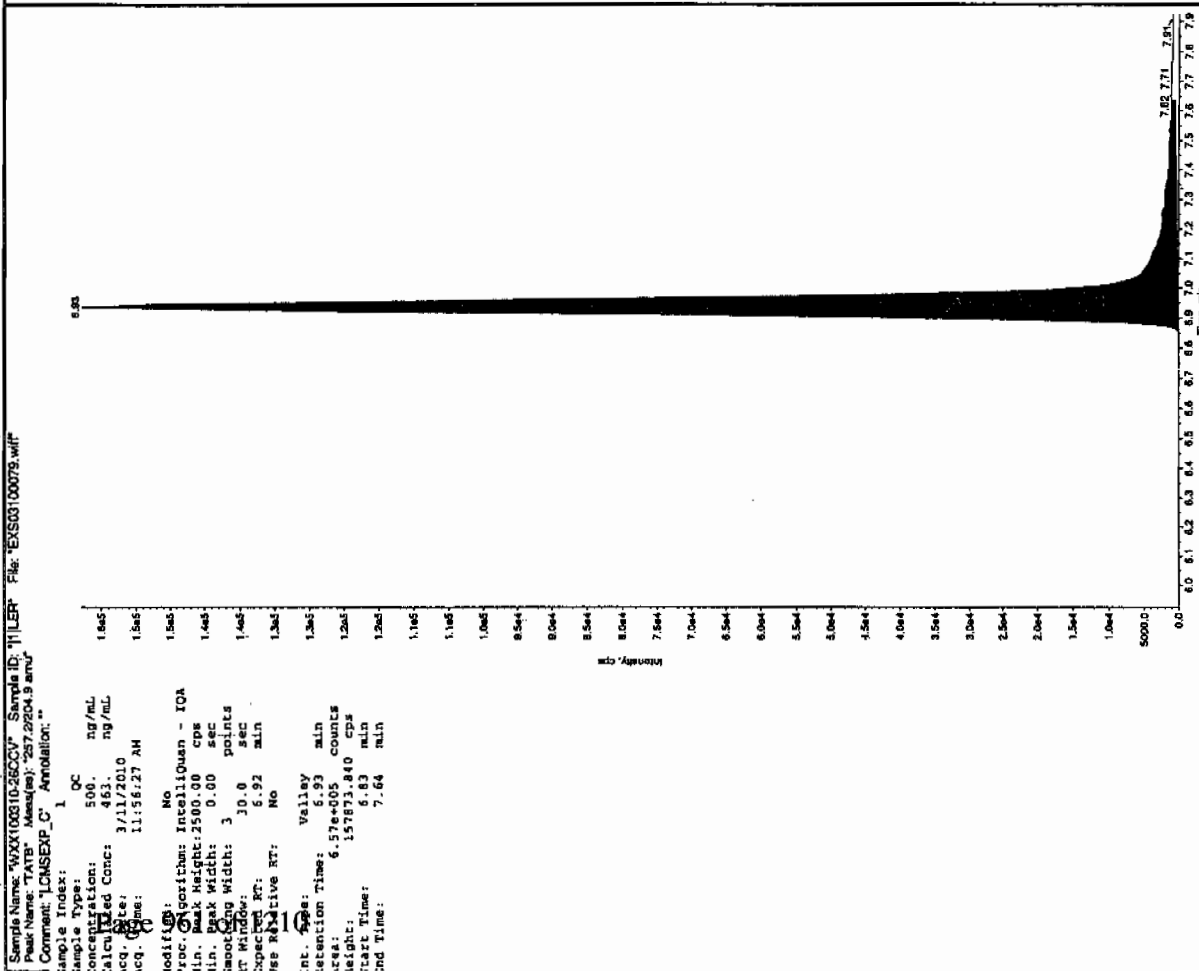
Column used to flag Recovery outside of Limits

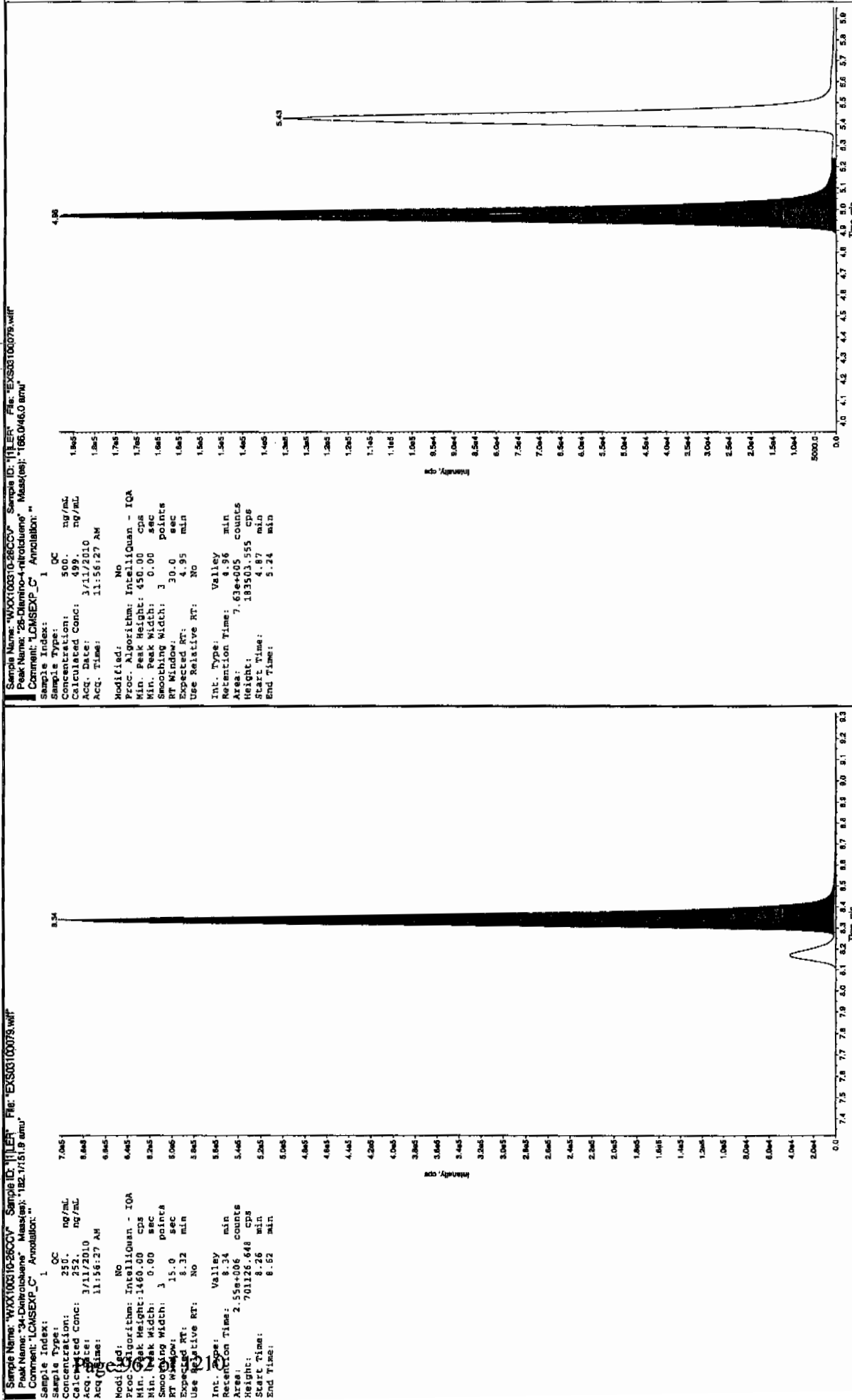
* Value outside of Recovery Limits

Lat 3/14/10



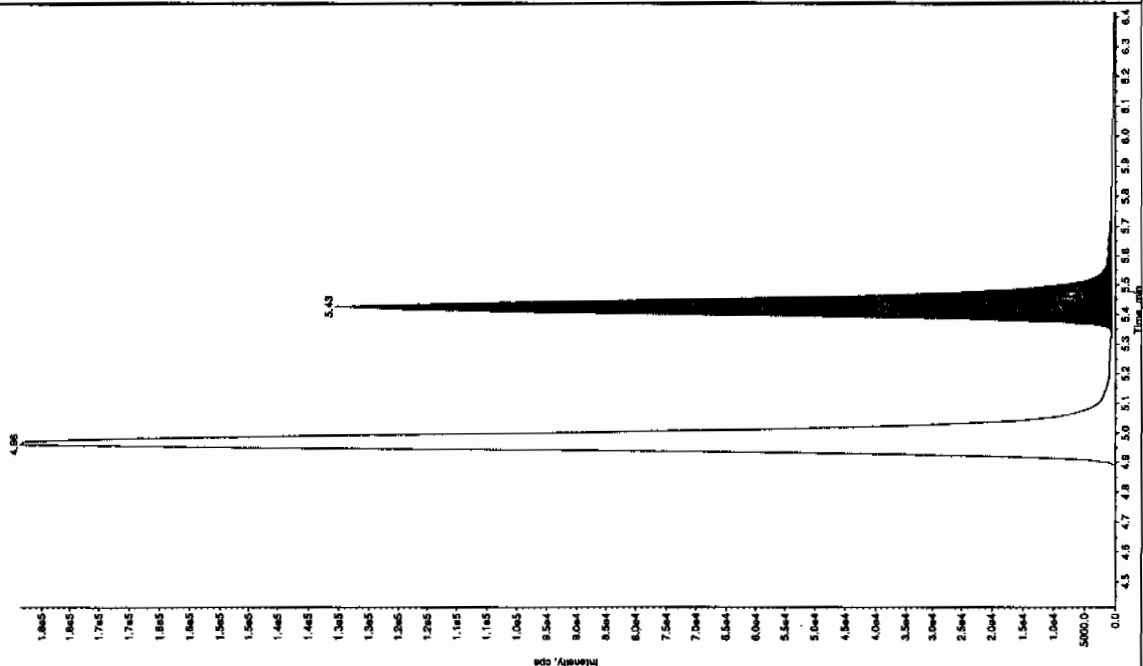
4/11/10 03:17:10





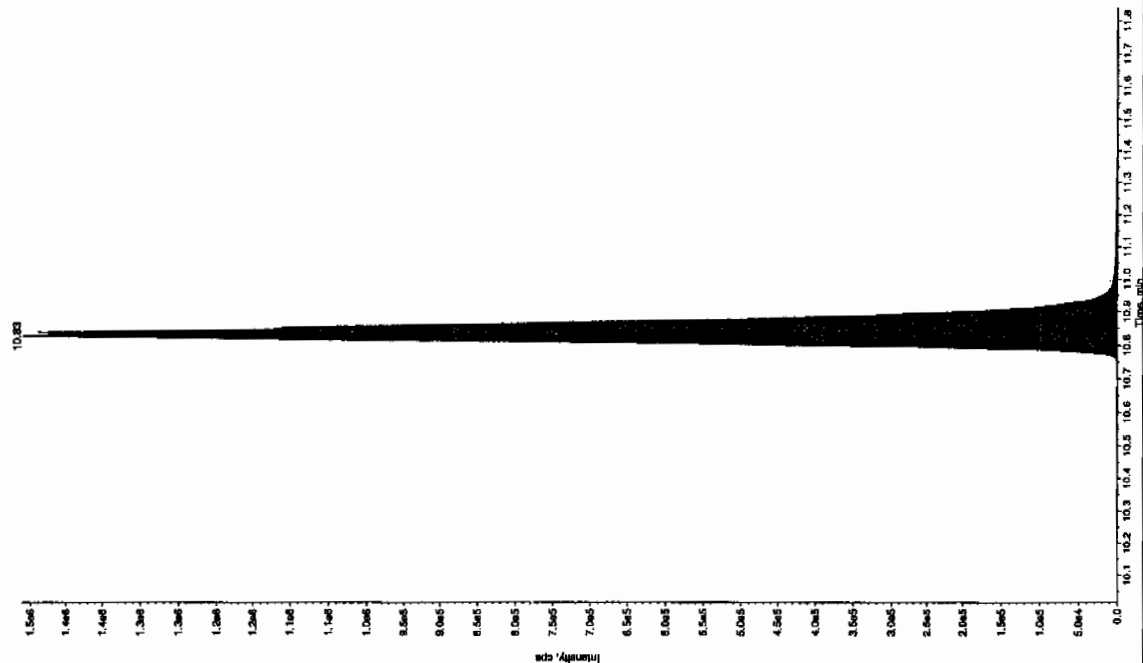
Sample Name: "WXX100310-250CV" Sample ID: "JL1ER" File: "EX503100079.wif"
 Peak Name: "24-Diamino-5-nitrocouline" Mass(es): "156.048.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Concentrated Conc: 3/11/2010
 Acq. Date: 11:56:27 AM
 Acq. Time: 11:56:27 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Peak Height: 5.06e5 counts
 Peak Width: 12995.911 min
 Start Time: 5.12 min
 End Time: 5.78 min



Sample Name: "WXX100310-250CV" Sample ID: "JL1ER" File: "EX503100079.wif"
 Peak Name: "tris(2-ethyl) phosphate" Mass(es): "389.151.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Concentrated Conc: 3/11/2010
 Acq. Date: 11:56:27 AM
 Acq. Time: 11:56:27 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Peak Height: 5.89e5 counts
 Peak Width: 145974.893 min
 Start Time: 10.7 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100081.wiff

Analysis Date: 11-MAR-10 12:27

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	97.2	97	
2,6-Diamino-4-nitrotoluene	100	97.5	98	
3,4-Dinitrotoluene	50	49	98	
3,5-Dinitroaniline	100	84.2	84	
TATB	100	92.4	92	
tris(o-cresyl) phosphate	100	93.5	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

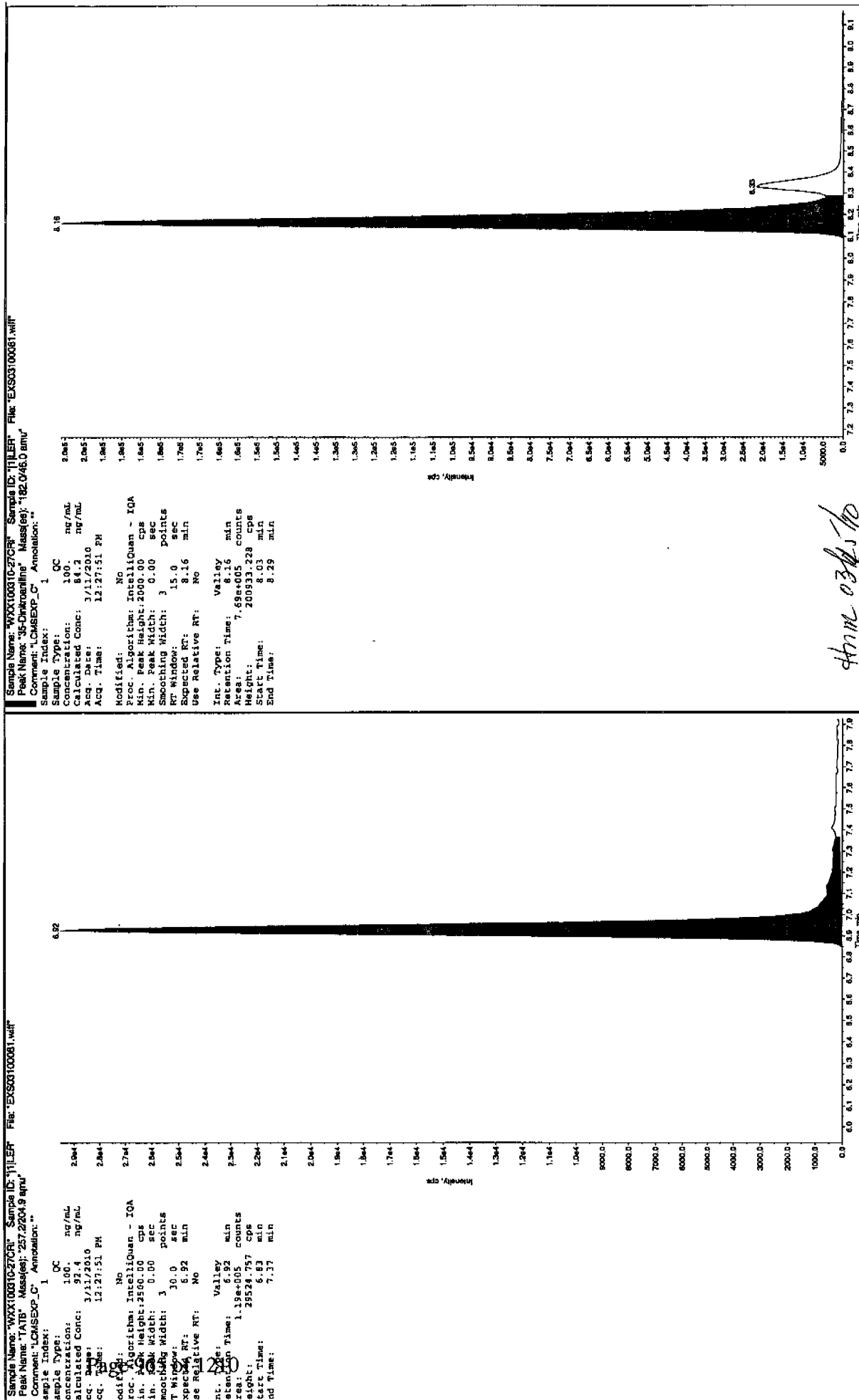
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

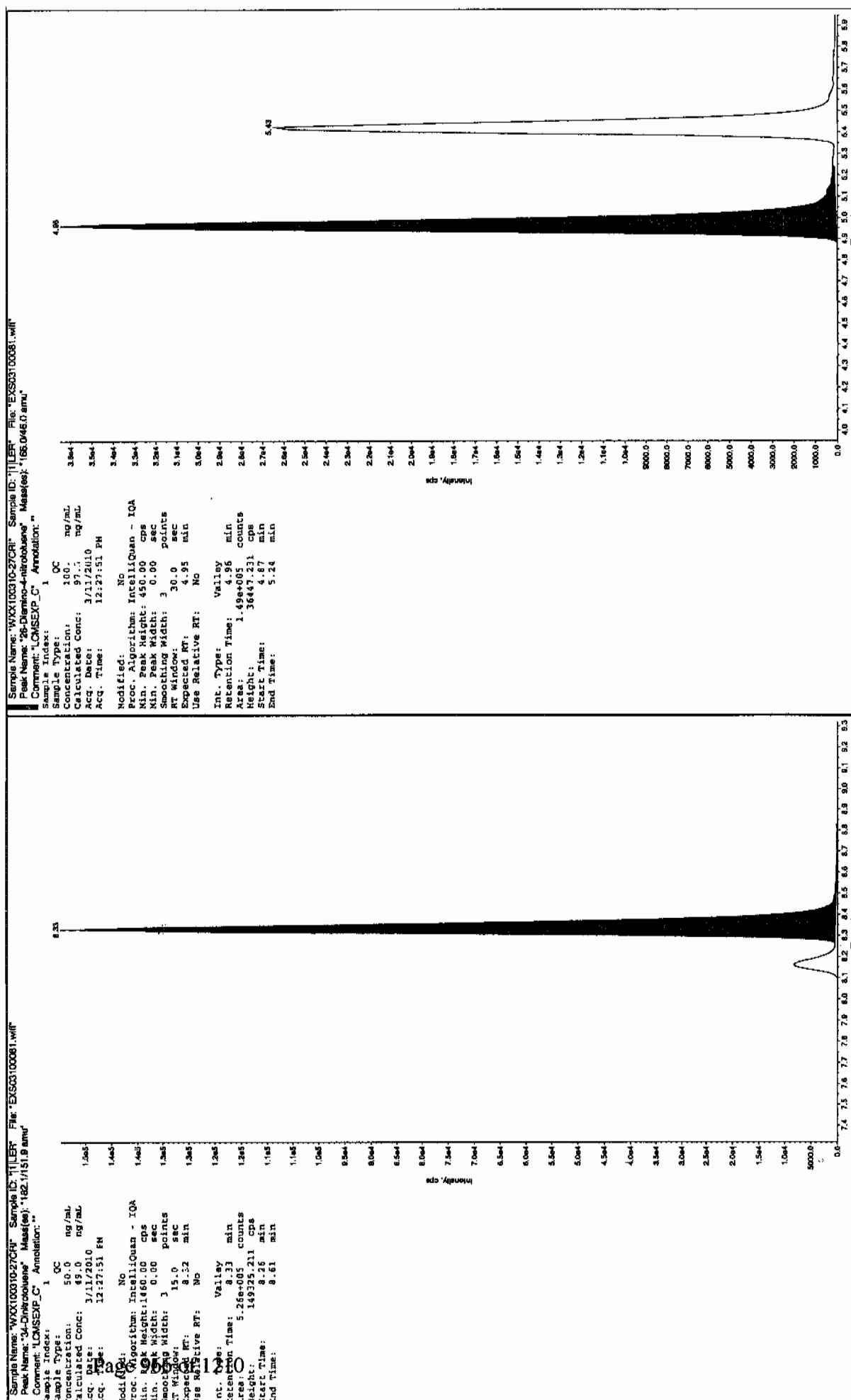
Column used to flag Recovery outside of Limits

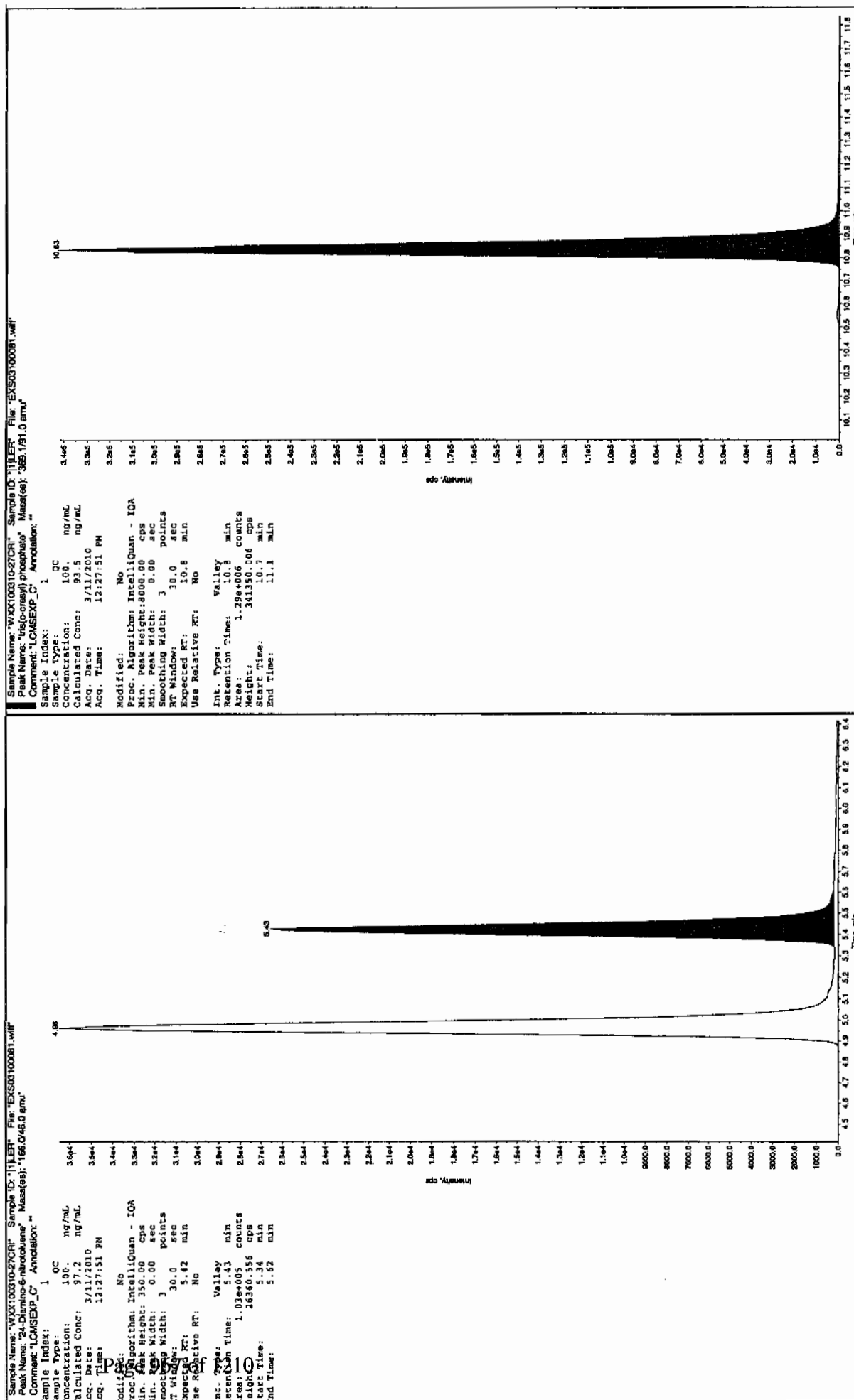
* Value outside of Recovery Limits

See 3/14/10



44mm 03/14/10





GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100092.wiff

Analysis Date: 11-MAR-10 15:20

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	488	98	
2,6-Diamino-4-nitrotoluene	500	475	95	
3,4-Dinitrotoluene	250	260	104	
3,5-Dinitroaniline	500	540	108	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	461	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 3/14/10

Sample Name: "WXX100310-2600V" Sample ID: "11L1R" File: "EXS03100082.wif"

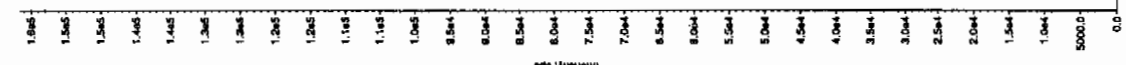
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 473. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:20:35 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 3.00 points
 RT Window: 15.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.92 min
 Area: 6.71e+005 counts
 Height: 156559.967 cps
 Start Time: 6.83 min
 End Time: 7.70 min



Sample Name: "WXX100310-2600V" Sample ID: "11L1R" File: "EXS03100082.wif"

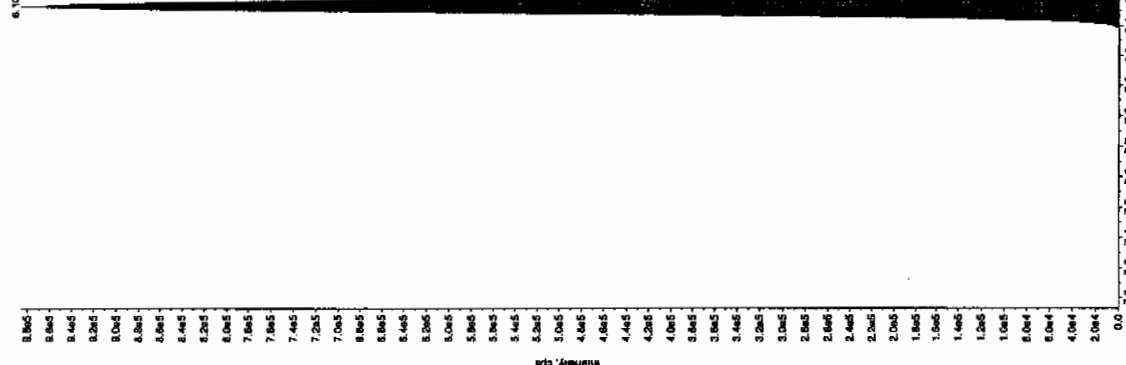
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/146.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 540. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:20:35 PM

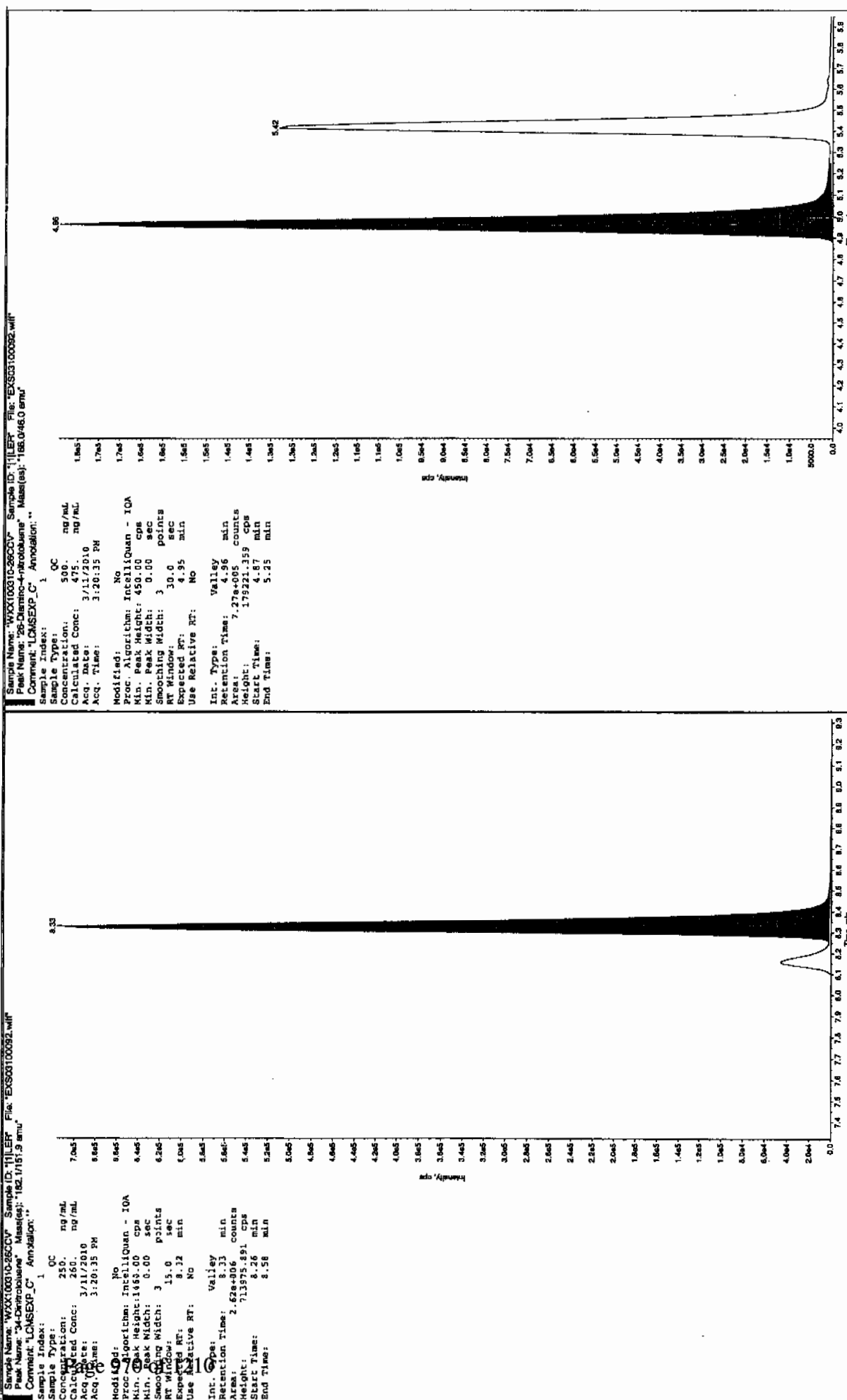
Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 3.00 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.16 min
 Area: 3.80e+006 counts
 Height: 965013.916 cps
 Start Time: 8.07 min
 End Time: 8.28 min



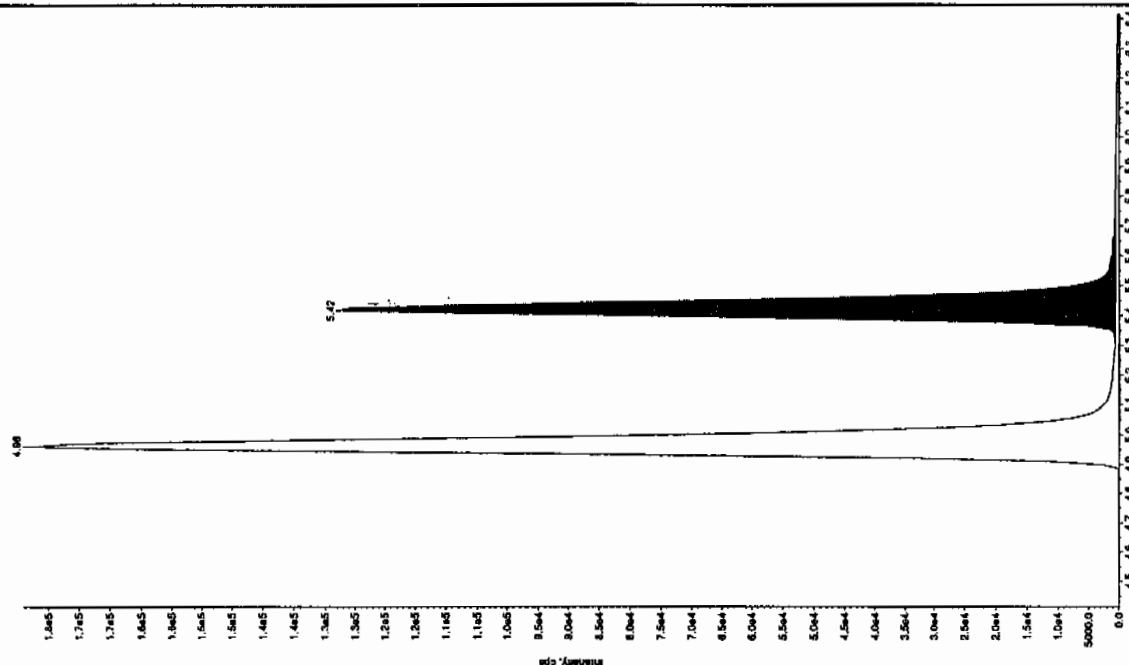
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSEXP#4

Jan 03/15/10



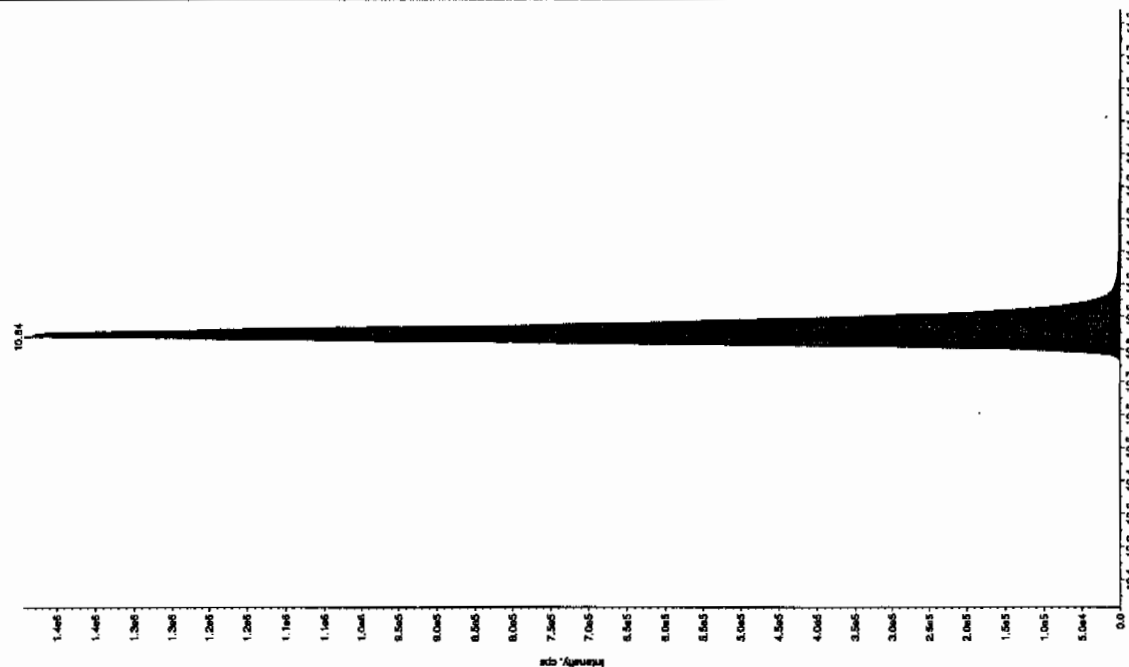
Sample Name: "WXX100310-260V" Sample ID: "1111ER" File: "EXS03100382.wht"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 488. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:20:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 30.0 points
 Peak Width: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 5.15e+005 counts
 Height: 127567.894 cps
 Start Time: 5.30 min
 End Time: 5.88 min



Sample Name: "WXX100310-260V" Sample ID: "1111ER" File: "EXS03100382.wht"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.181.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 461. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:20:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 800.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 30.0 points
 Peak Width: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 5.86e+006 counts
 Height: 1445141.921 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100094.wiff

Analysis Date: 11-MAR-10 15:51

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	90.1	90	
2,6-Diamino-4-nitrotoluene	100	94.6	95	
3,4-Dinitrotoluene	50	48.1	96	
3,5-Dinitroaniline	100	87.8	88	
TATB	100	89.8	90	
tris(o-cresyl) phosphate	100	91.8	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 3/14/10

Sample Name: "WXX100310-27CPR" Sample ID: "11L1R" File: "EX503100084.wif"

Peak Name: "TATB" Mass(es): 257.2204.9 amu

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 89.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 3:51:59 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.92 min

Use Relative RT: No

Int. Type: Valley

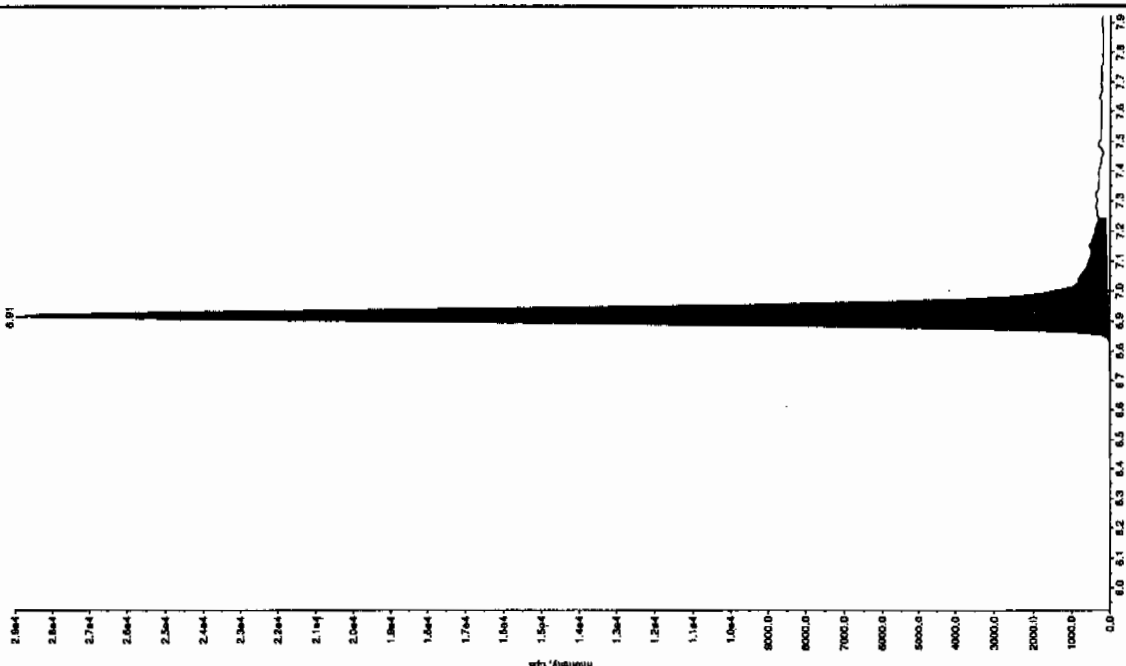
Retention Time: 6.91 min

Area: 1.15e+005 counts

Height: 28975.094 cps

Start Time: 6.81 min

End Time: 7.24 min



Sample Name: "WXX100310-27CPR" Sample ID: "11L1R" File: "EX503100084.wif"

Peak Name: "35-Dinkroaniline" Mass(es): 182.046.0 amu

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 87.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 3:51:59 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Valley

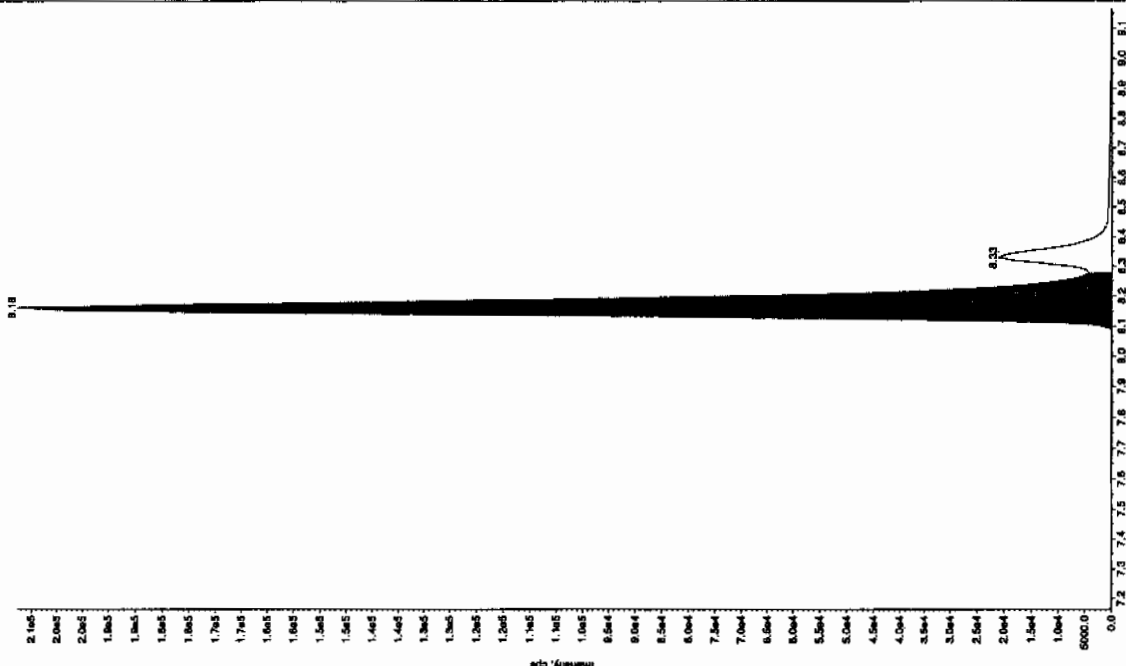
Retention Time: 8.16 min

Area: 7.94e+005 counts

Height: 207574.371 cps

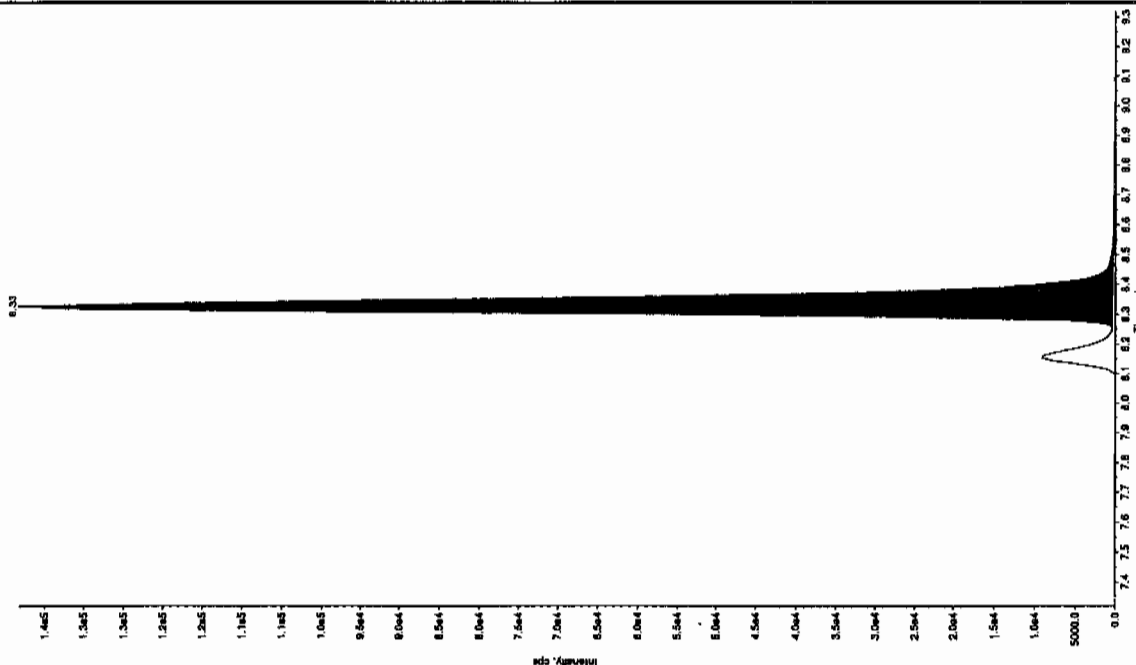
Start Time: 8.07 min

End Time: 8.28 min



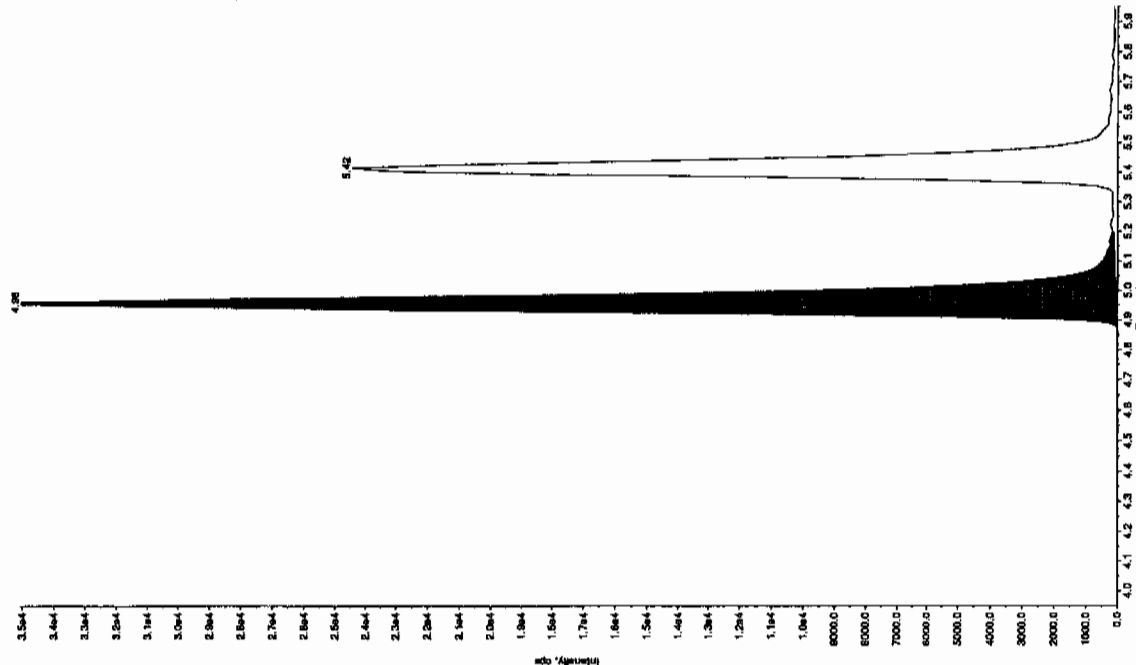
Sample Name: "WXX100310-270R" Sample ID: "H1ER" File: "EX503100094.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

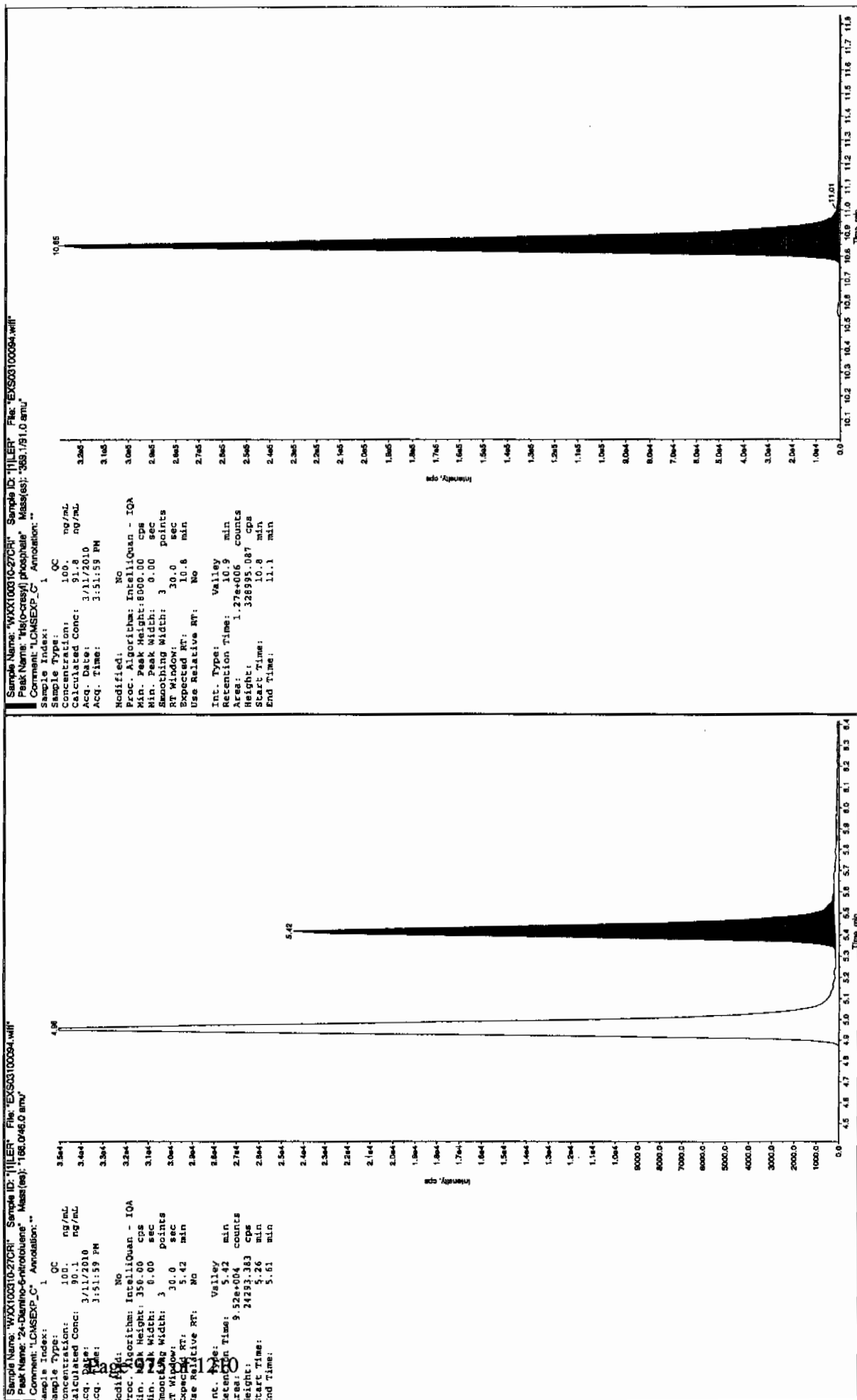
Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 46.1 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:51:59 PM
 Modified: No
 Proc Algorithm: IntelliQuan - ICA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 5.17e+005 counts
 Height: 137835.188 cps
 Start Time: 8.26 min
 End Time: 8.60 min



Sample Name: "WXX100310-270R" Sample ID: "H1ER" File: "EX503100094.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "156.0/46.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 94.6 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:51:59 PM
 Modified: No
 Proc Algorithm: IntelliQuan - ICA
 Min. Peak Height: 650.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.45e+005 counts
 Height: 35025.591 cps
 Start Time: 4.85 min
 End Time: 5.20 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100103.wiff

Analysis Date: 11-MAR-10 18:13

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	500	527	105	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	467	93	
2,4-Diamino-6-nitrotoluene	500	499	100	
2,6-Diamino-4-nitrotoluene	500	493	99	
3,4-Dinitrotoluene	250	258	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

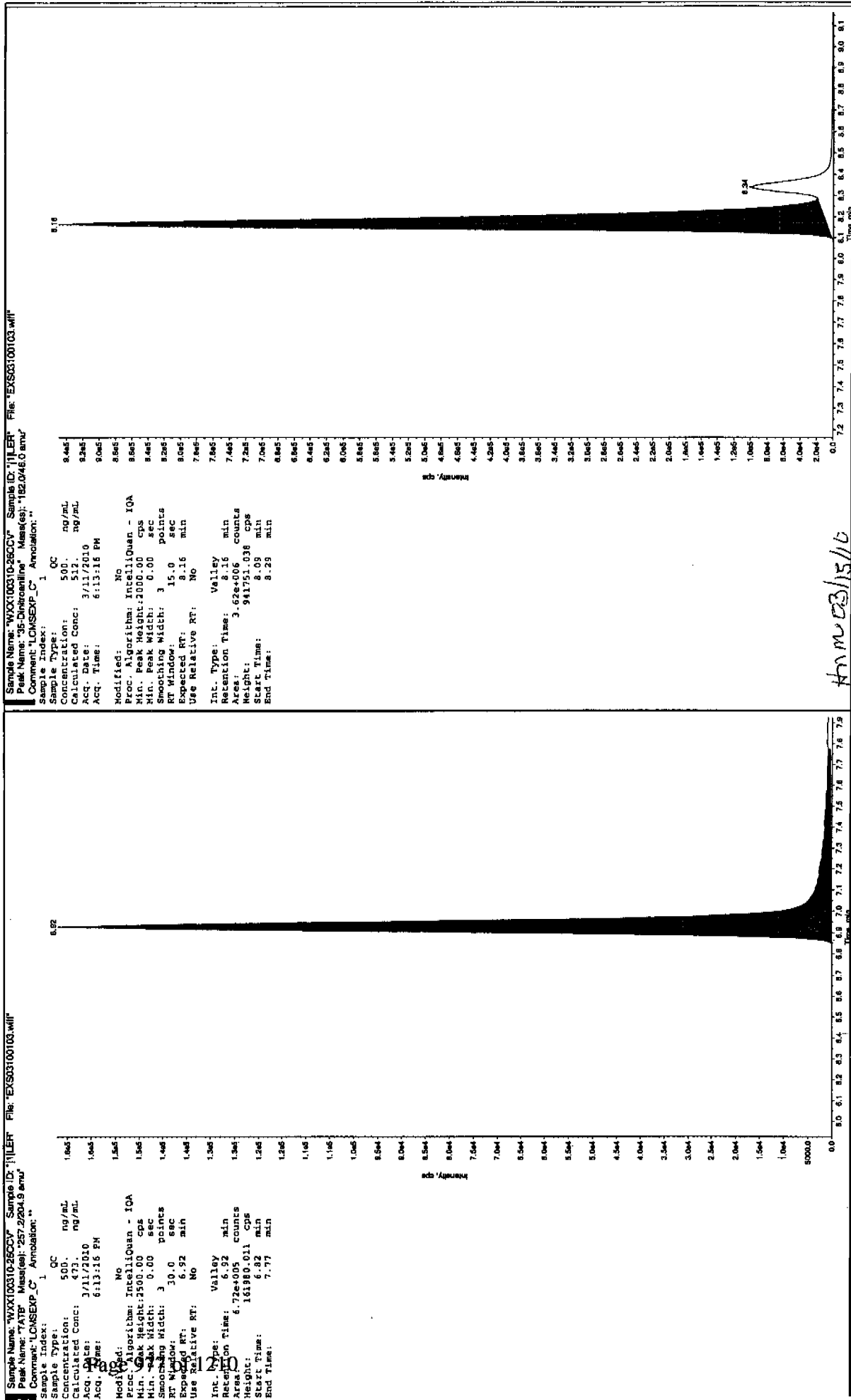
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10



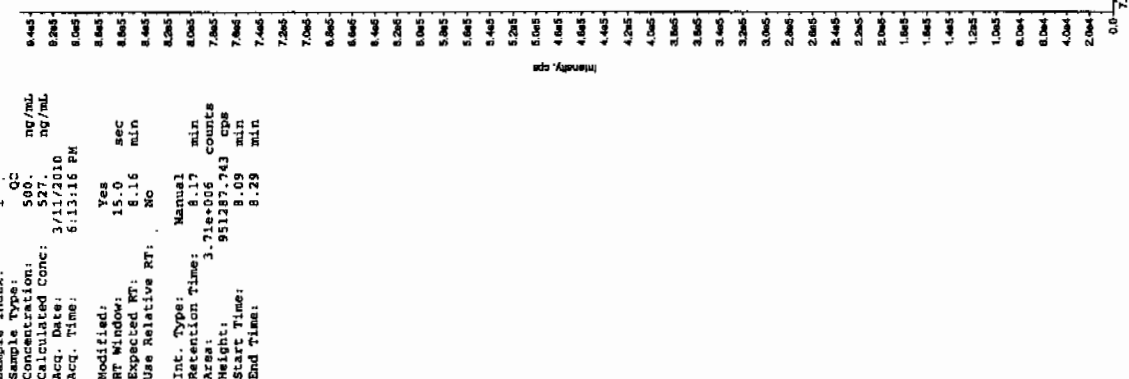
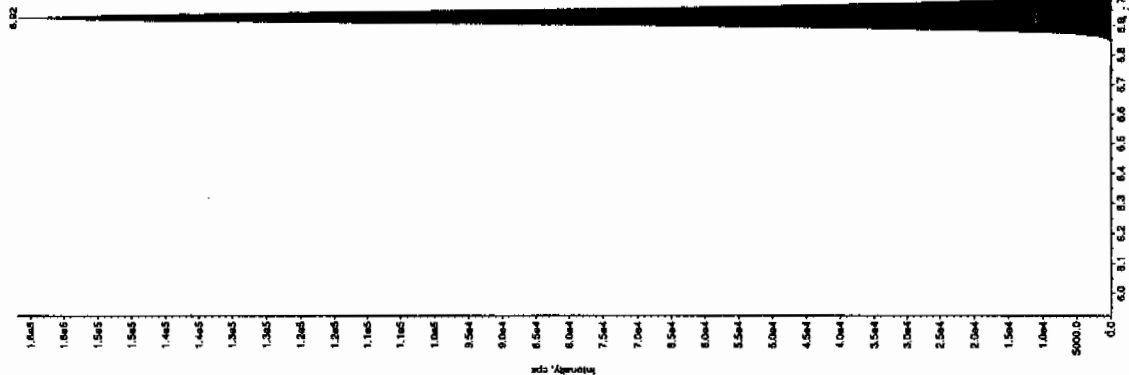
Am 03/15/10

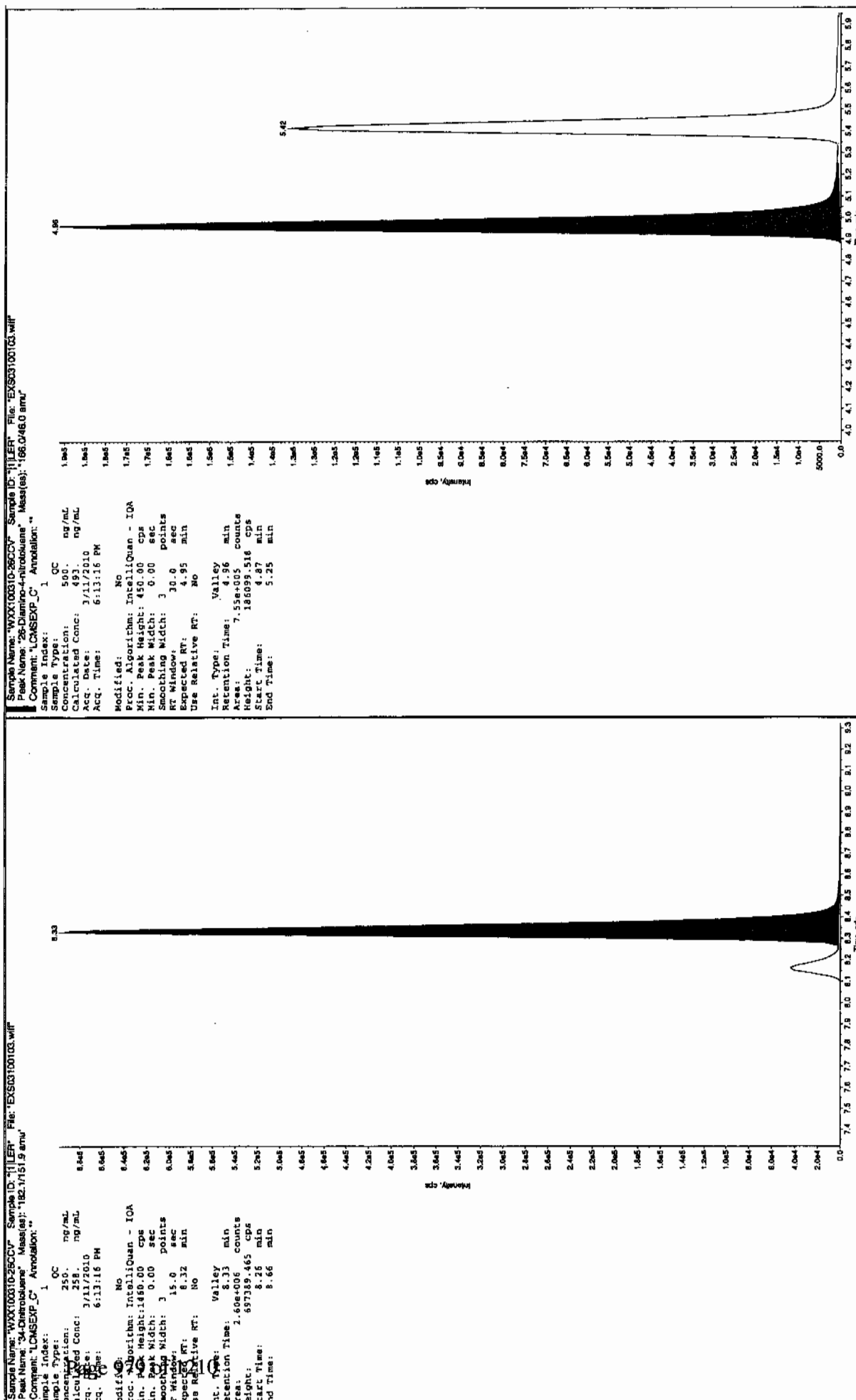
after for 3/14/10

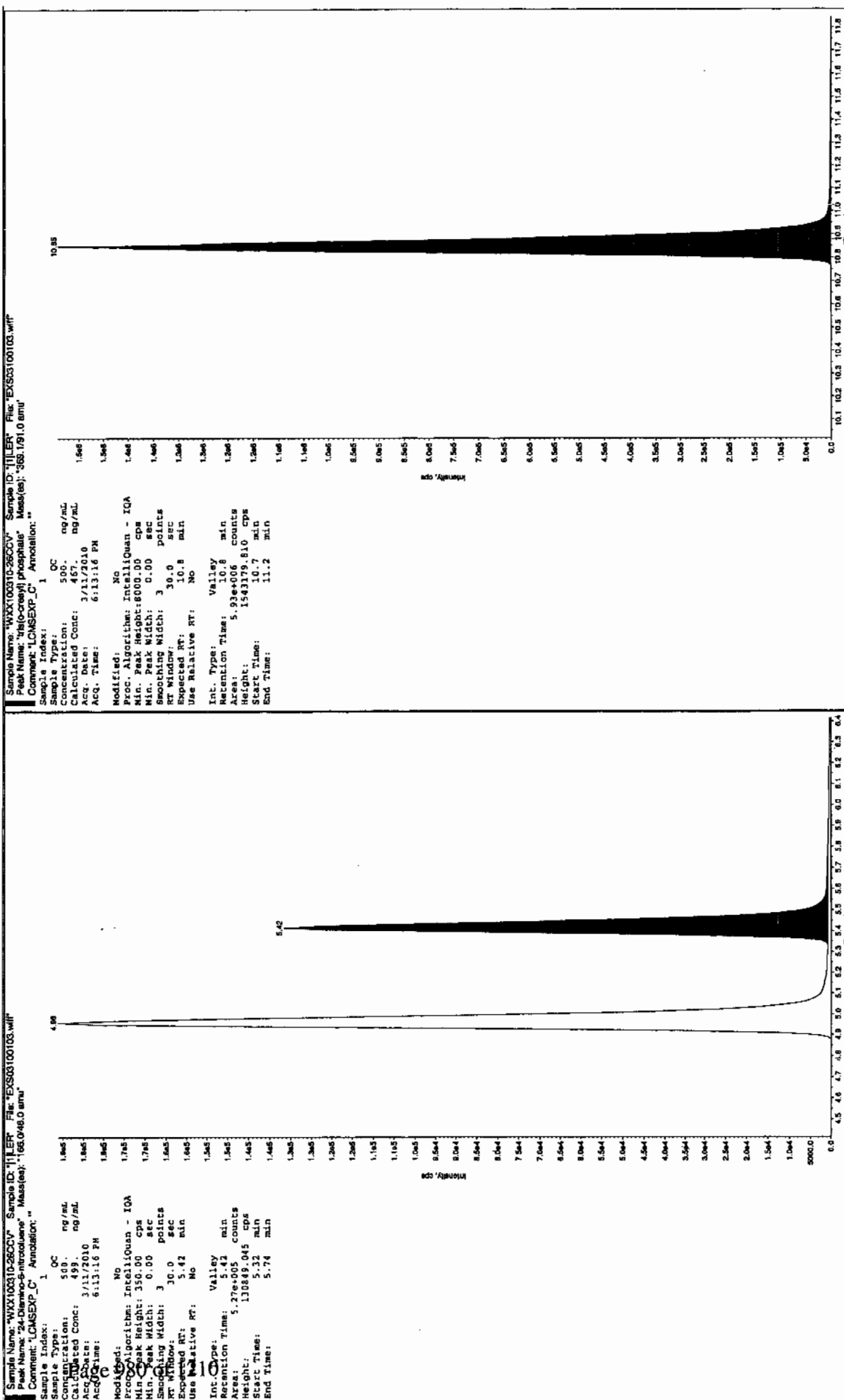
Sample Name: "WXX100310-260CV" Sample ID: "111ER" File: "EX503100103.wif"
 Peak Name: "TATB" Mass(es): "267.2004.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 527 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 6:13:16 PM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.17 min
 Area: 3.71e+006 counts
 Height: 951287.743 cps
 Start Time: 8.09 min
 End Time: 8.29 min

Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 2500.00 cps
 In. Peak Width: 0.30 sec
 In. Peak Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.92 min
 Area: 6.72e+005 counts
 Height: 161980.011 cps
 Start Time: 6.82 min
 End Time: 7.77 min







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100105.wiff

Analysis Date: 11-MAR-10 18:44

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	98.1	98	
2,6-Diamino-4-nitrotoluene	100	102	102	
3,4-Dinitrotoluene	50	47.4	95	
3,5-Dinitroaniline	100	86.9	87	
TATB	100	90	90	
tris(o-cresyl) phosphate	100	91.7	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

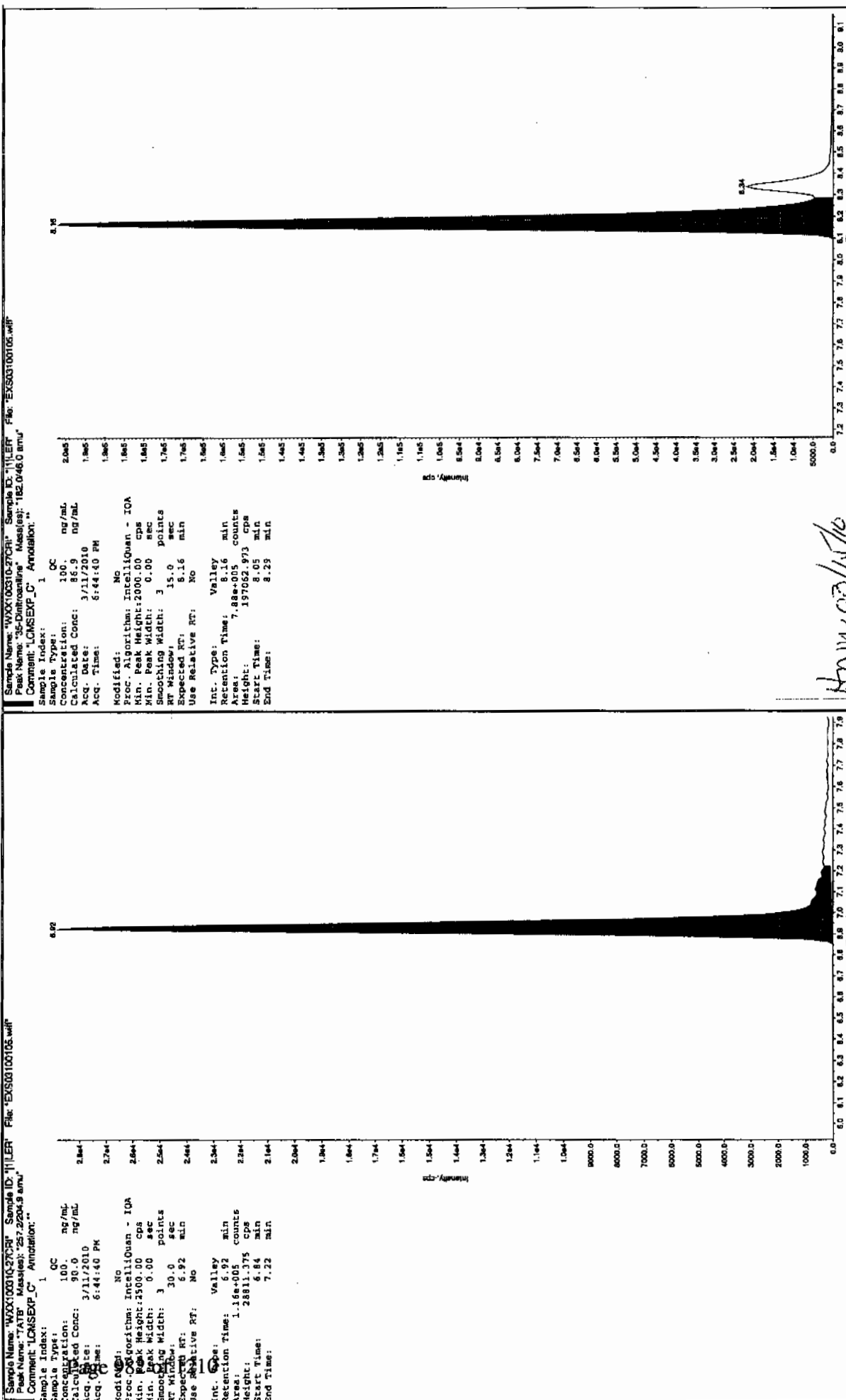
2,4-Diamino-6-nitrotoluene 50-150%

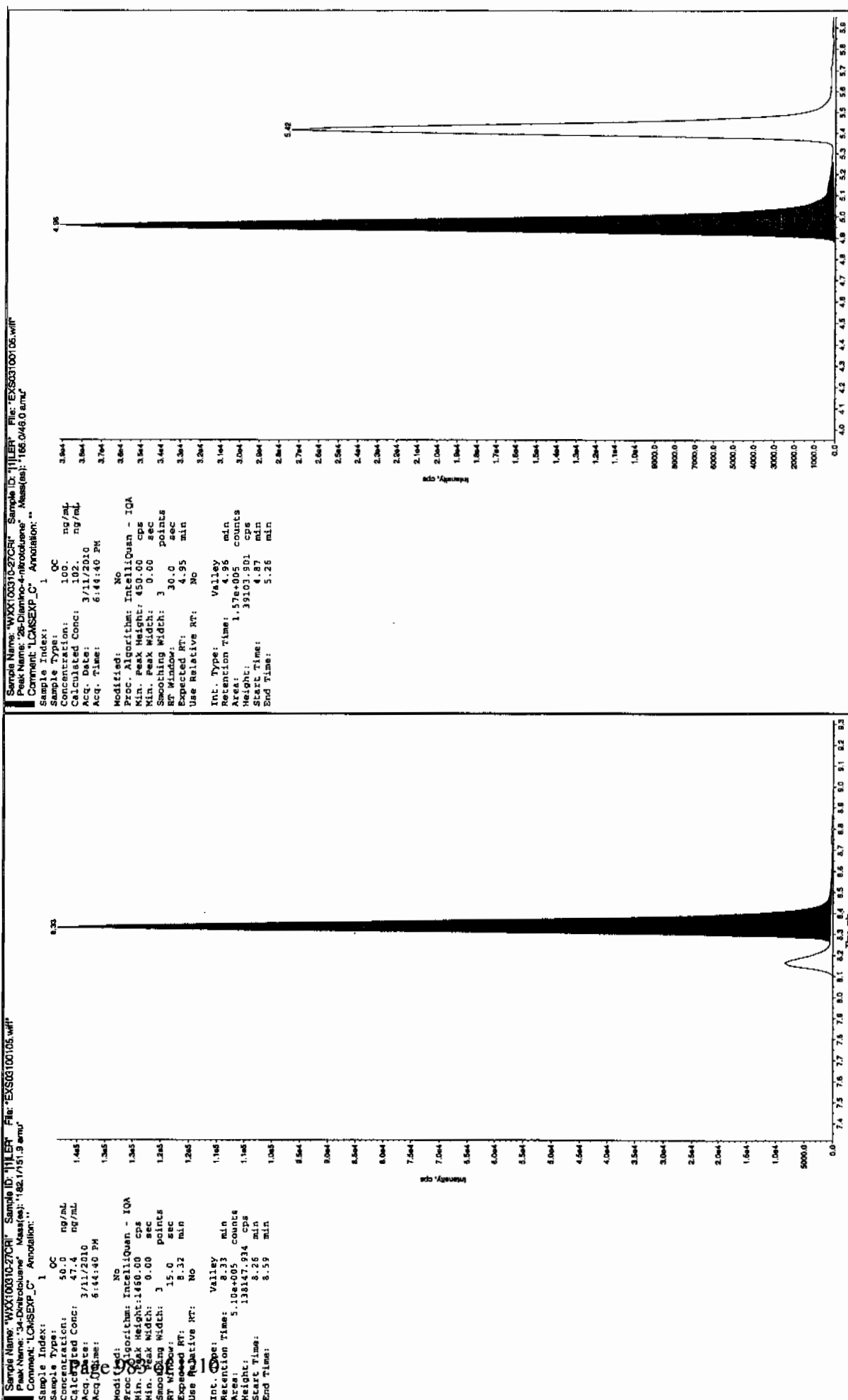
Other Target Analytes 70-130%

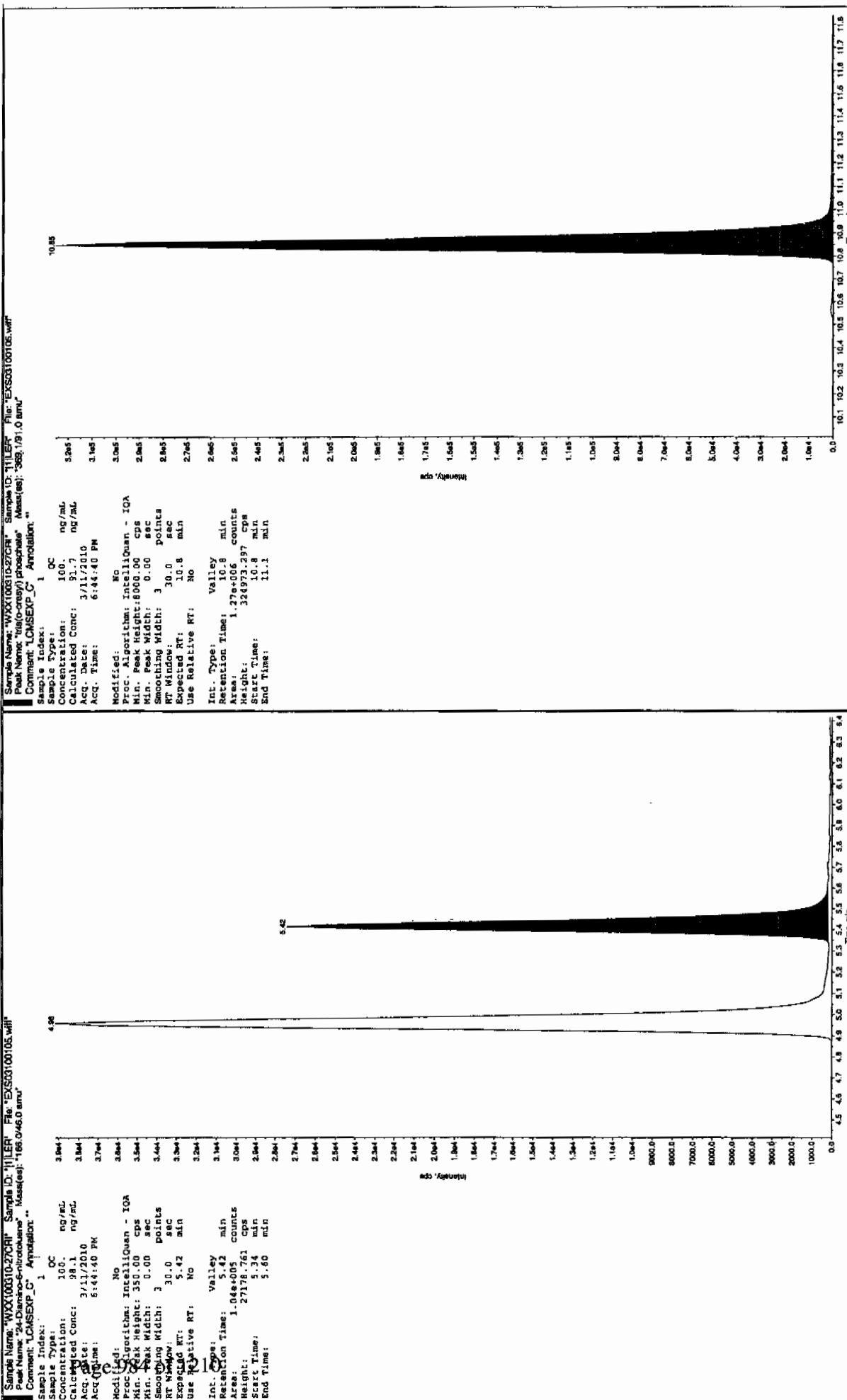
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

200 3/14/10







7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100116.wiff

Analysis Date: 11-MAR-10 21:37

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	515	103	
2,6-Diamino-4-nitrotoluene	500	511	102	
3,4-Dinitrotoluene	250	269	107	
3,5-Dinitroaniline	500	536	107	
TATB	500	476	95	
tris(o-cresyl) phosphate	500	474	95	

Recovery Limits:

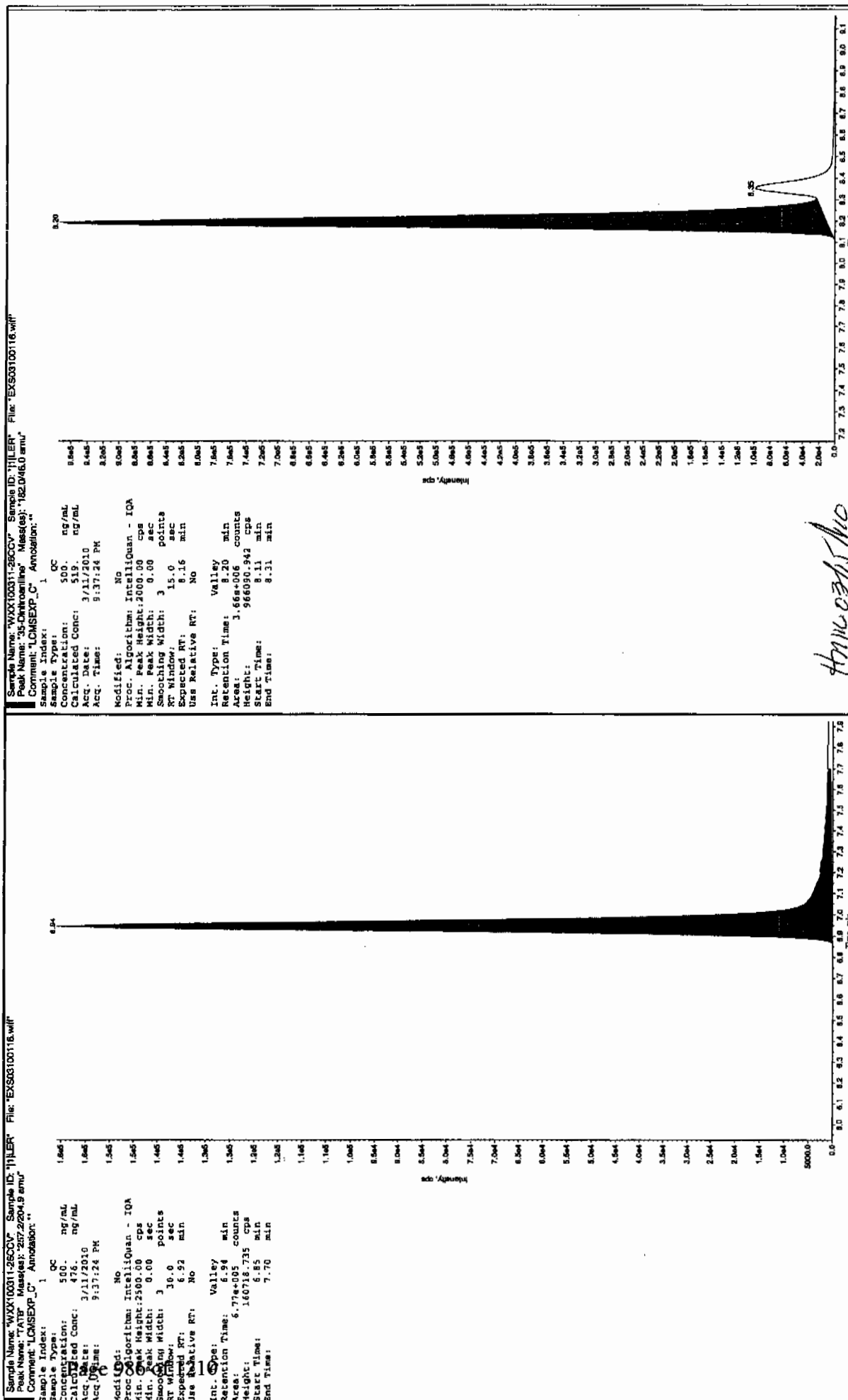
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

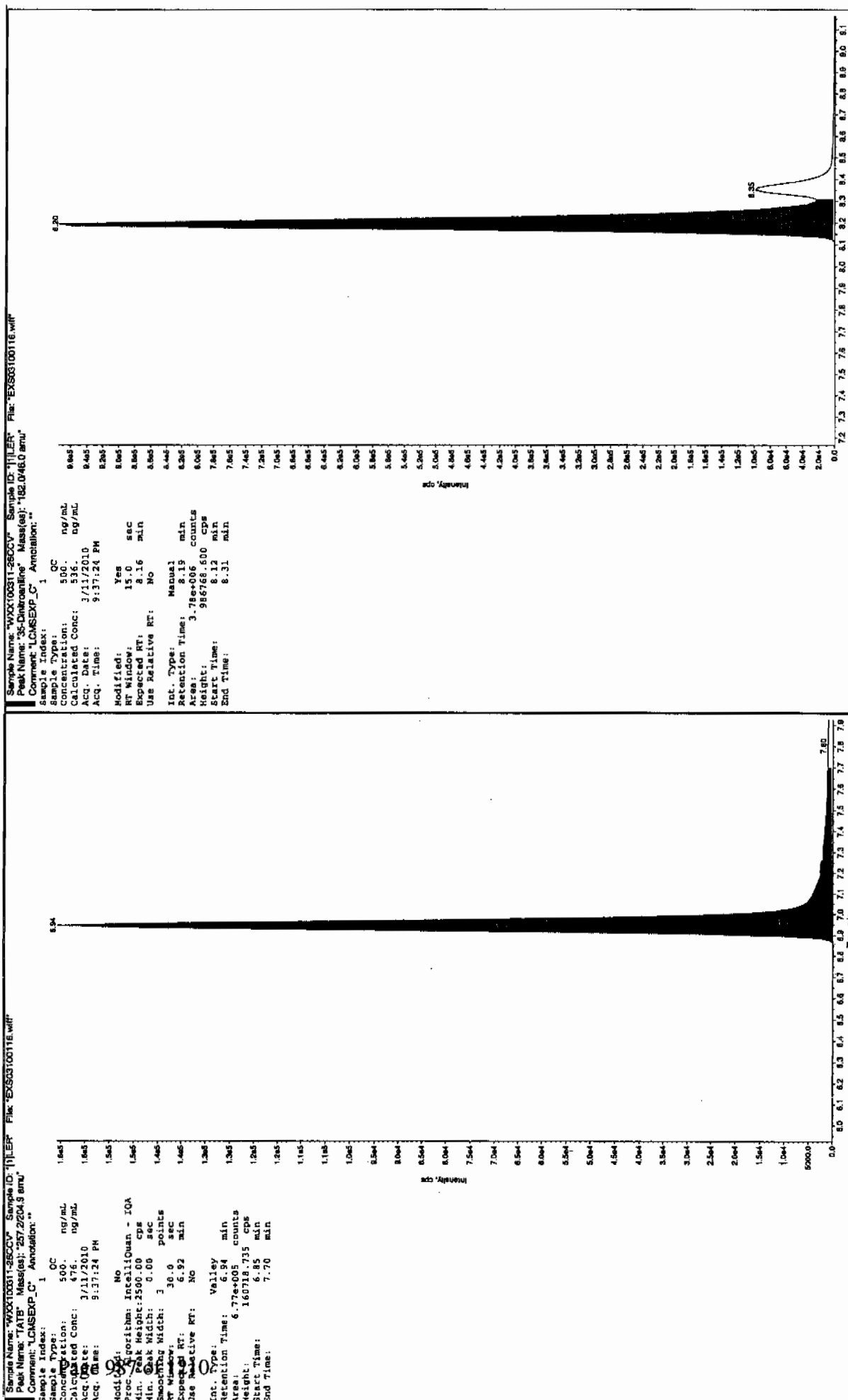
* Value outside of Recovery Limits

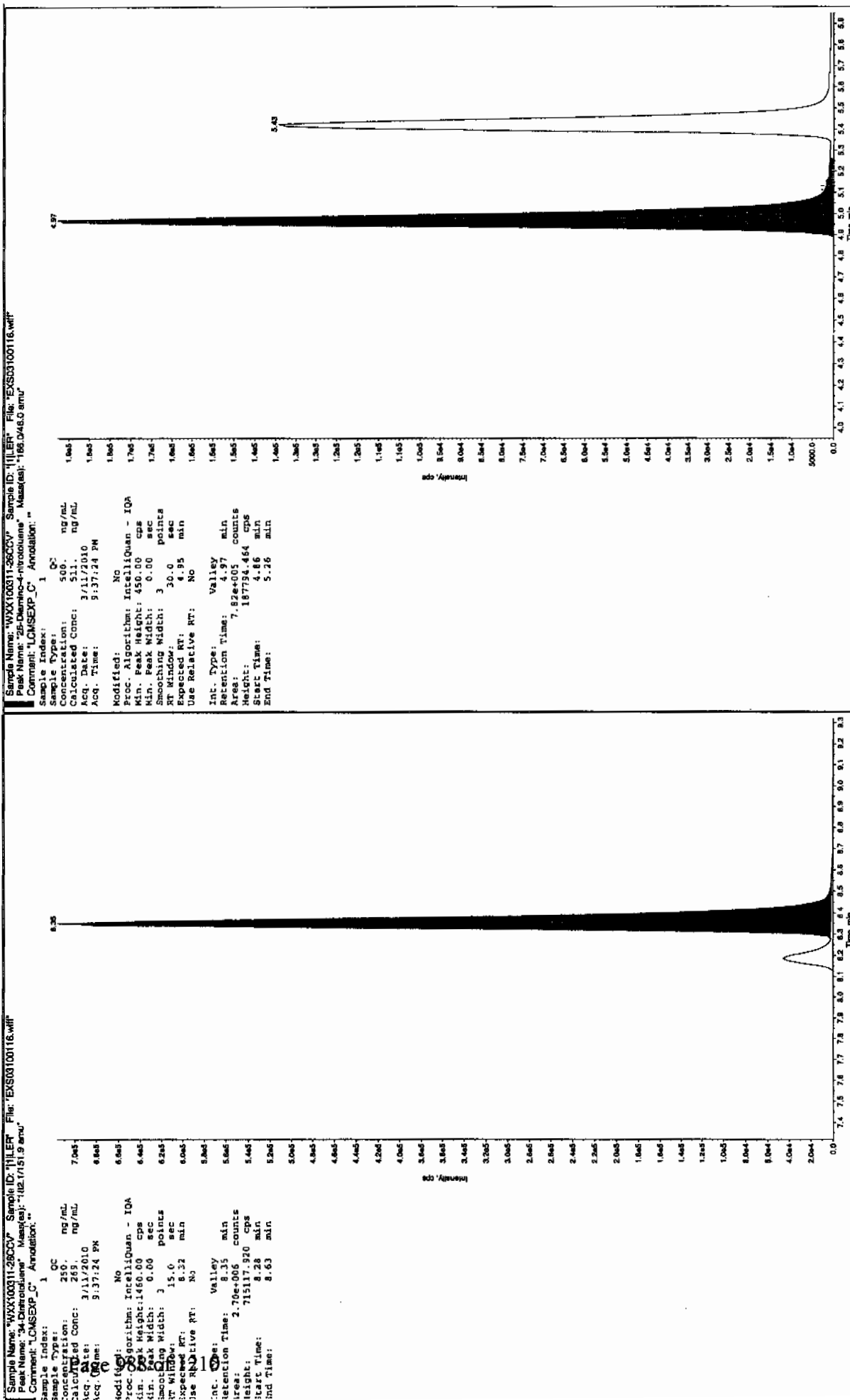
Before Jan 31/3/10

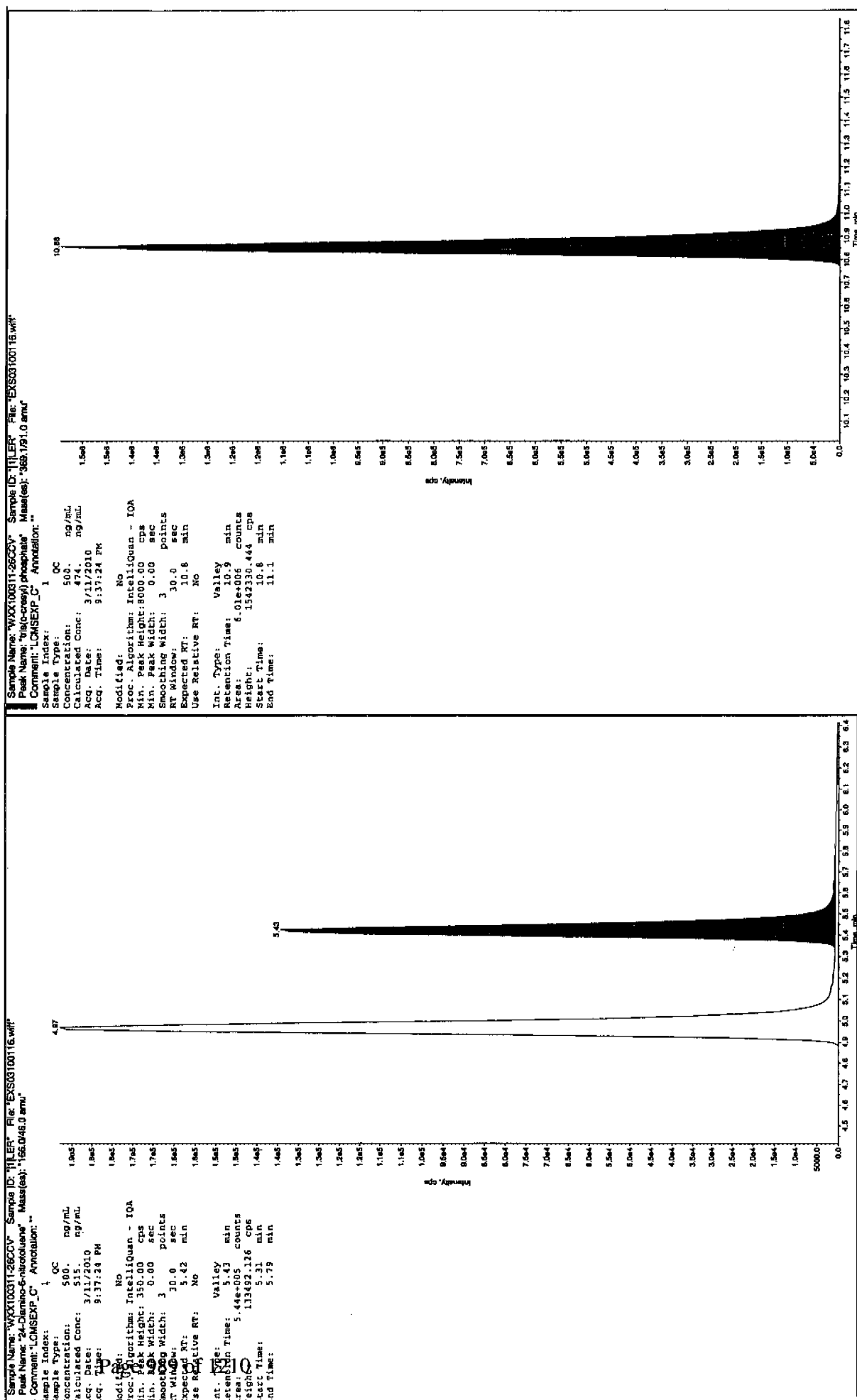


After Jan 31/3/10

after Dec 3/14/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100118.wiff

Analysis Date: 11-MAR-10 22:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	105	105	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	51.5	103	
3,5-Dinitroaniline	100	86.8	87	
TATB	100	90.8	91	
tris(o-cresyl) phosphate	100	93.4	93	

Recovery Limits:

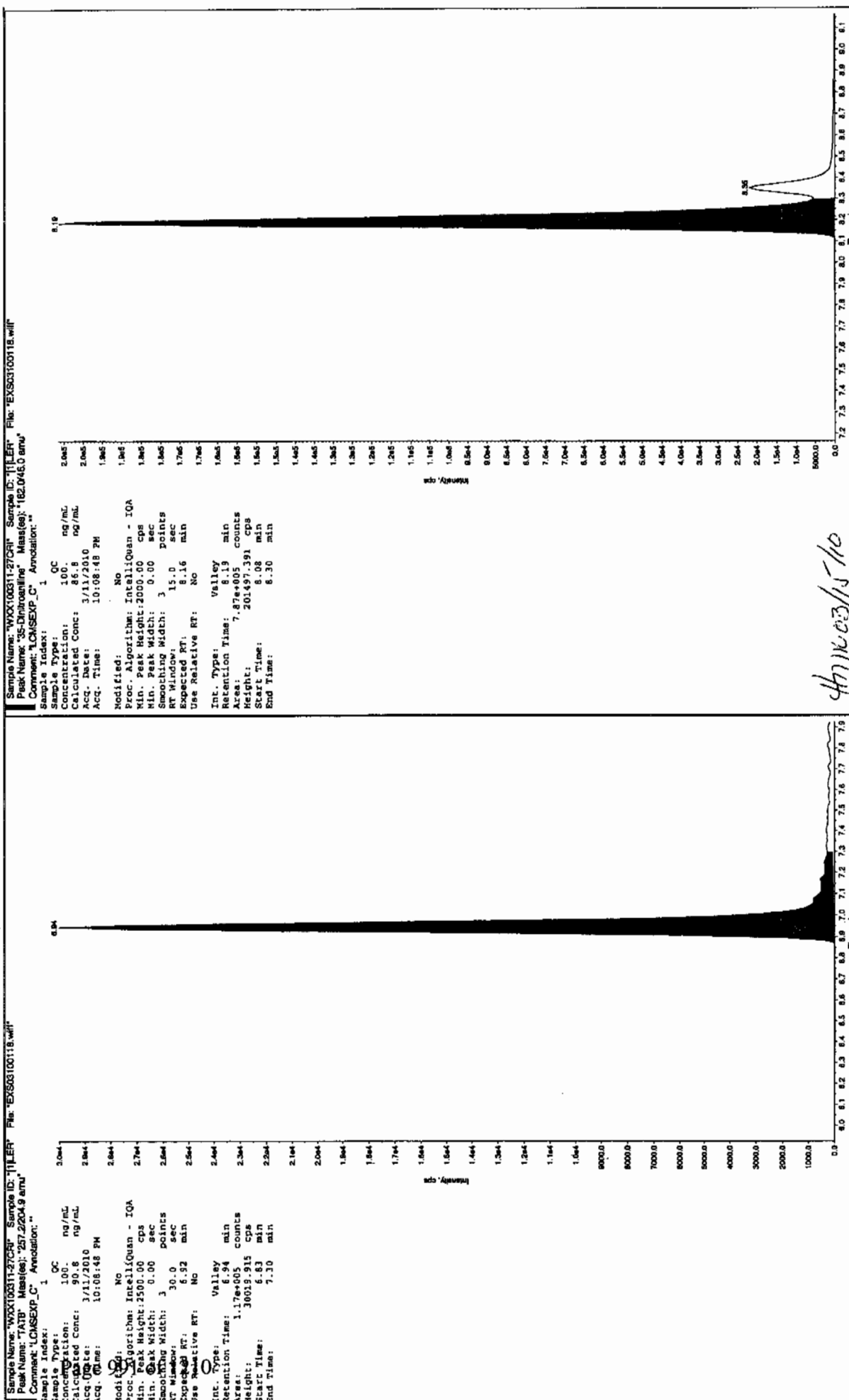
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

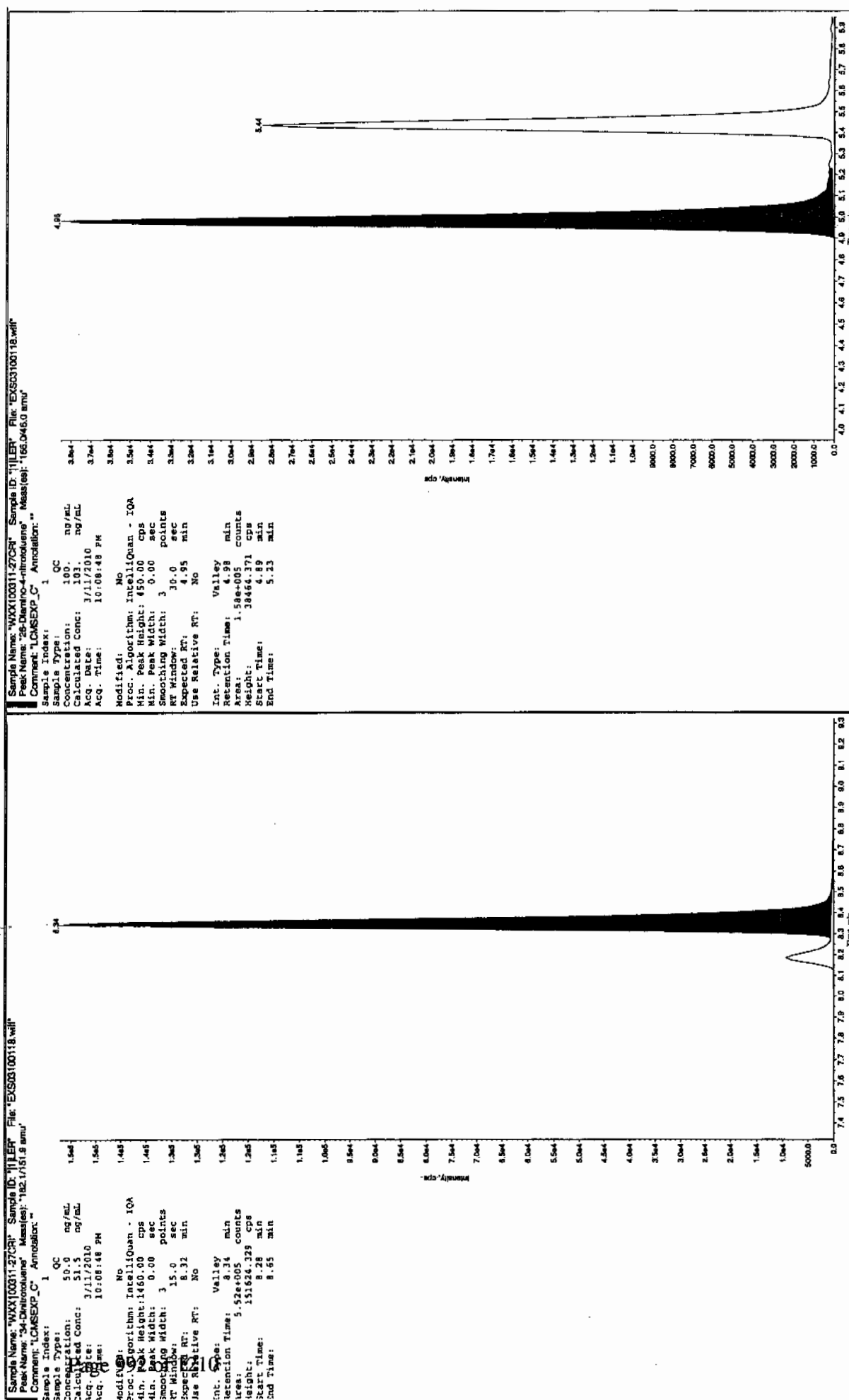
Column used to flag Recovery outside of Limits

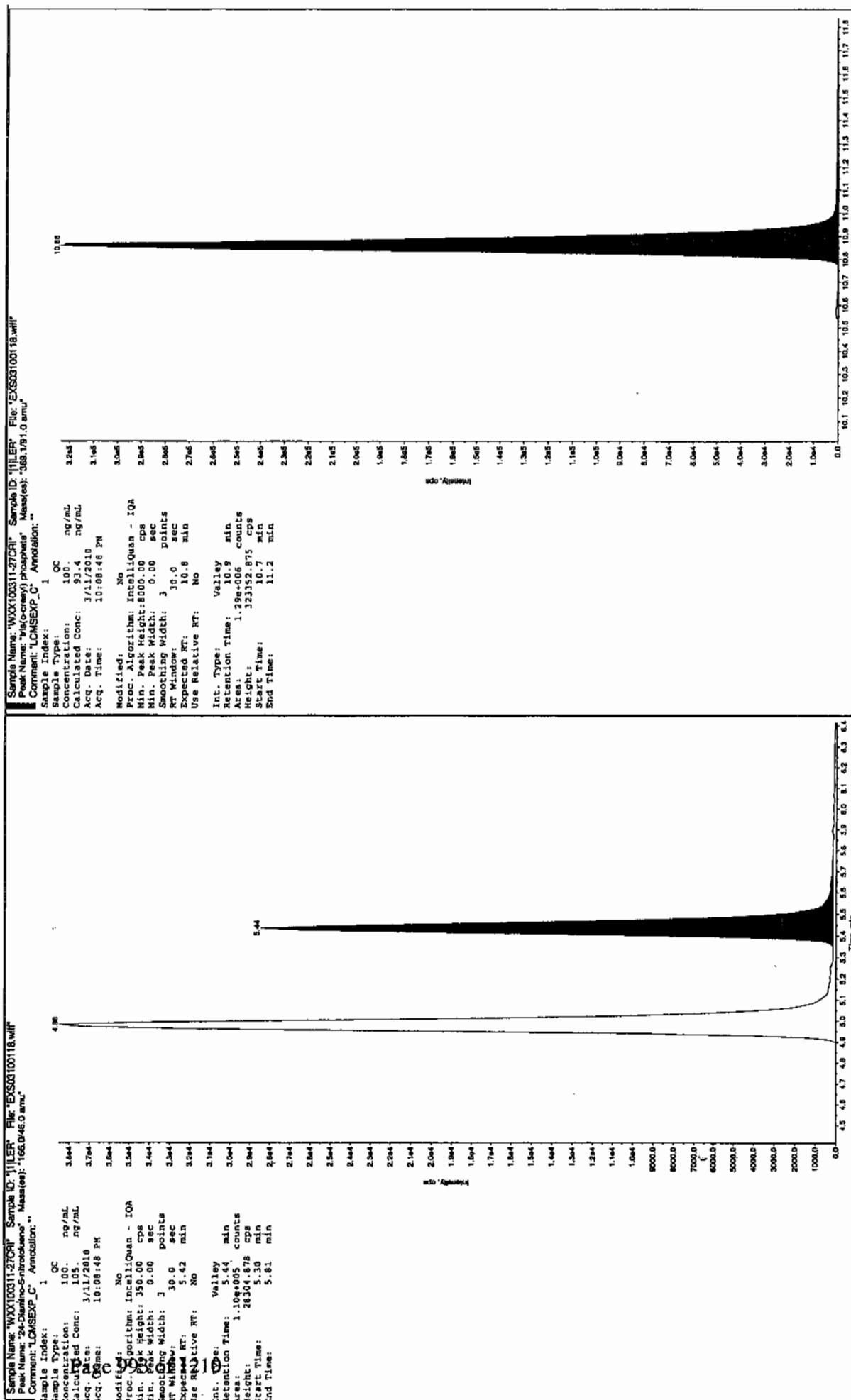
* Value outside of Recovery Limits

Run 3/14/10



4/11/10 03/15/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100128.wiff

Analysis Date: 12-MAR-10 00:45

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	530	106	
2,6-Diamino-4-nitrotoluene	500	521	104	
3,4-Dinitrotoluene	250	261	104	
3,5-Dinitroaniline	500	533	107	
TATB	500	457	91	
tris(o-cresyl) phosphate	500	489	98	

Recovery Limits:

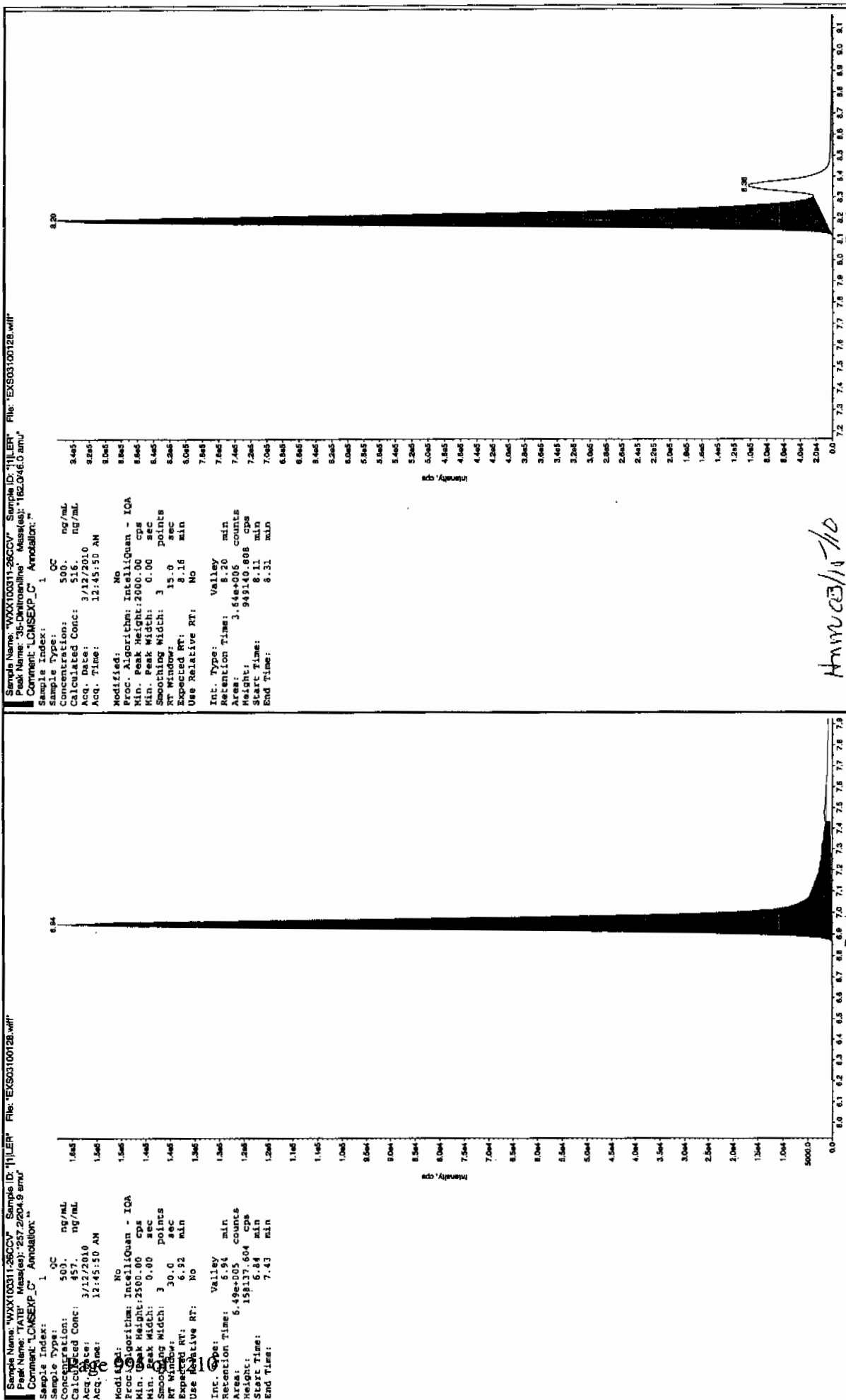
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

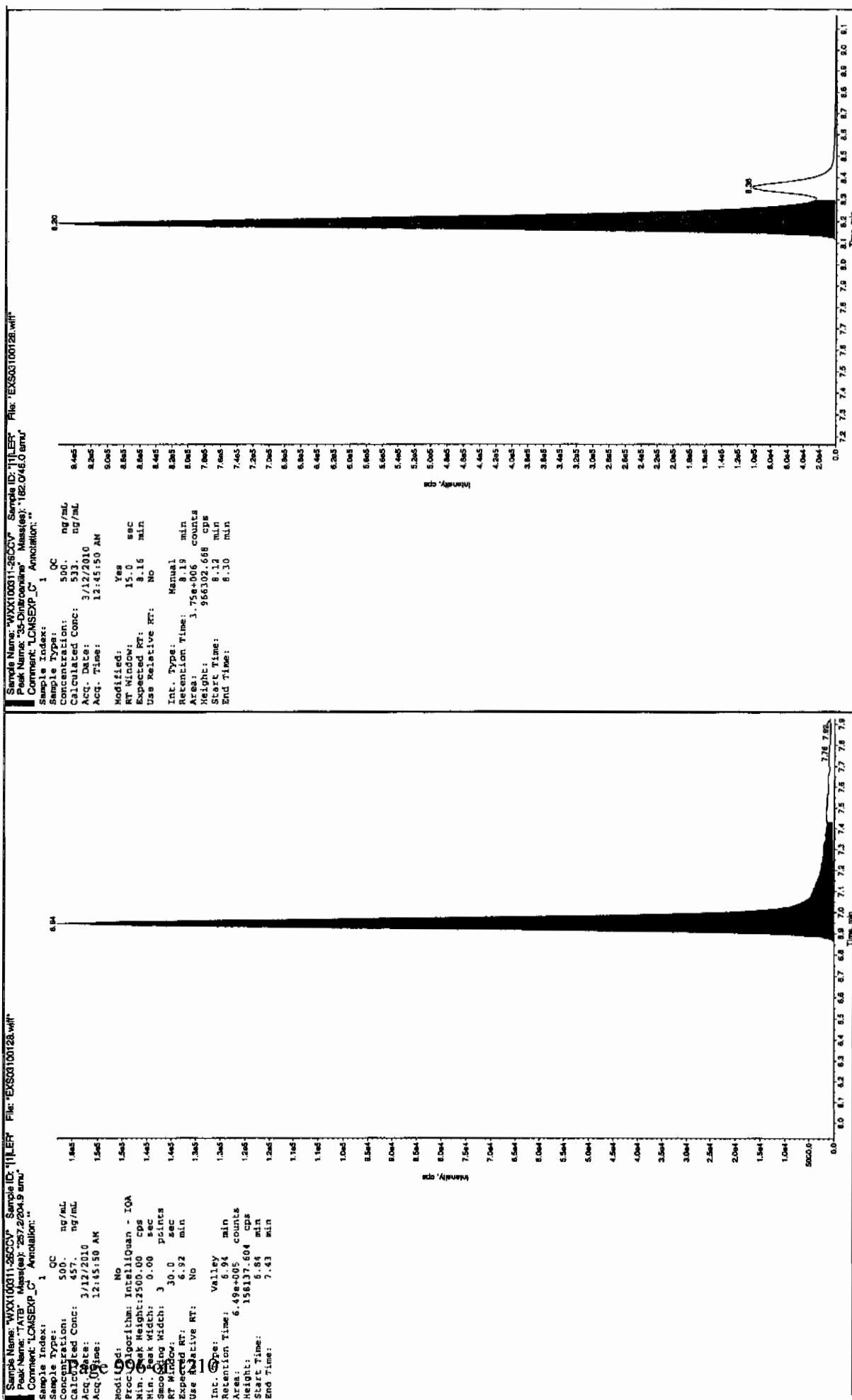
Column used to flag Recovery outside of Limits

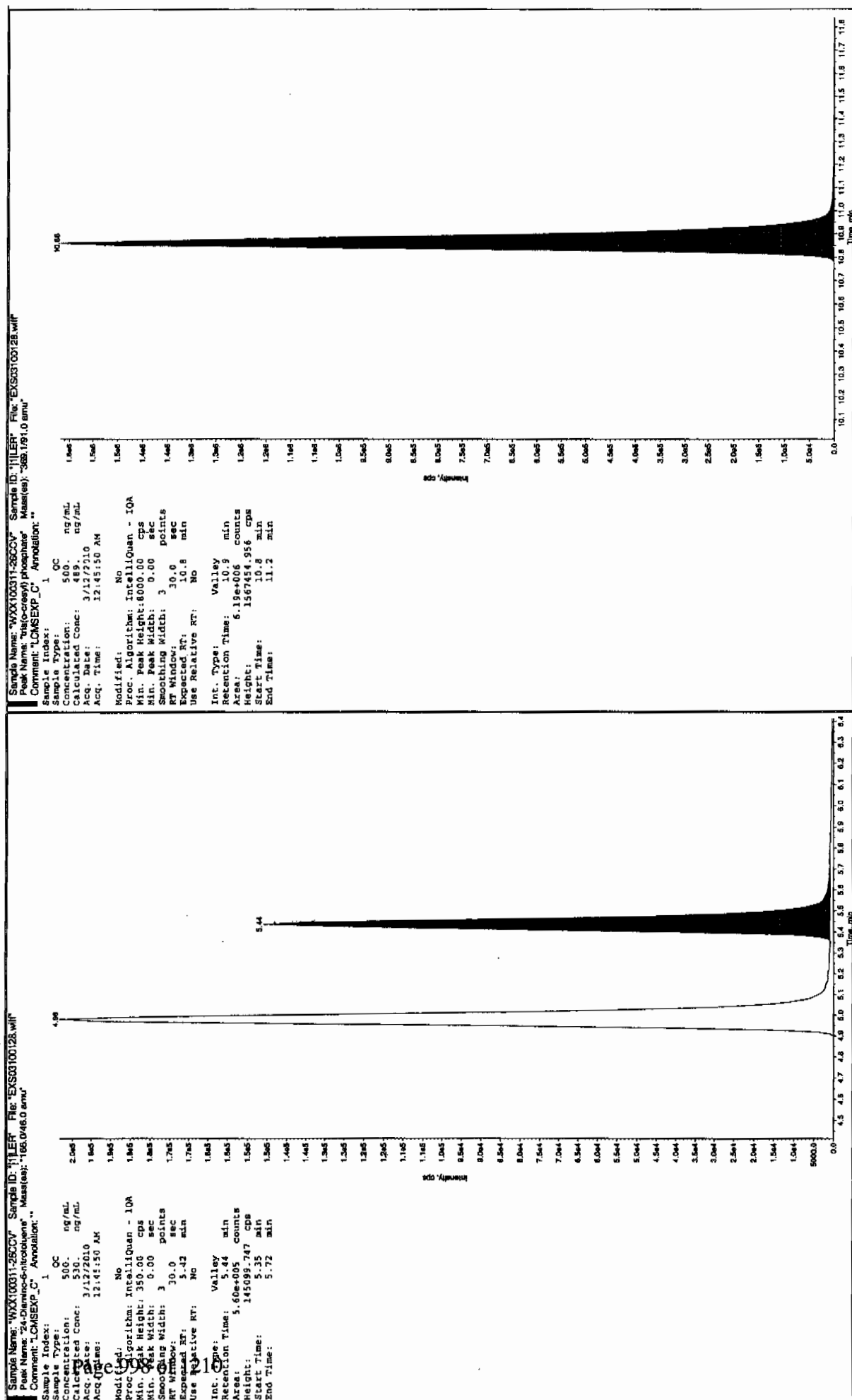
* Value outside of Recovery Limits

Before Jan 31/3/10



after 3/14/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100130.wiff

Analysis Date: 12-MAR-10 01:17

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	103	103	
2,6-Diamino-4-nitrotoluene	100	102	102	
3,4-Dinitrotoluene	50	49.7	99	
3,5-Dinitroaniline	100	88.1	88	
TATB	100	92.9	93	
tris(o-cresyl) phosphate	100	93.7	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

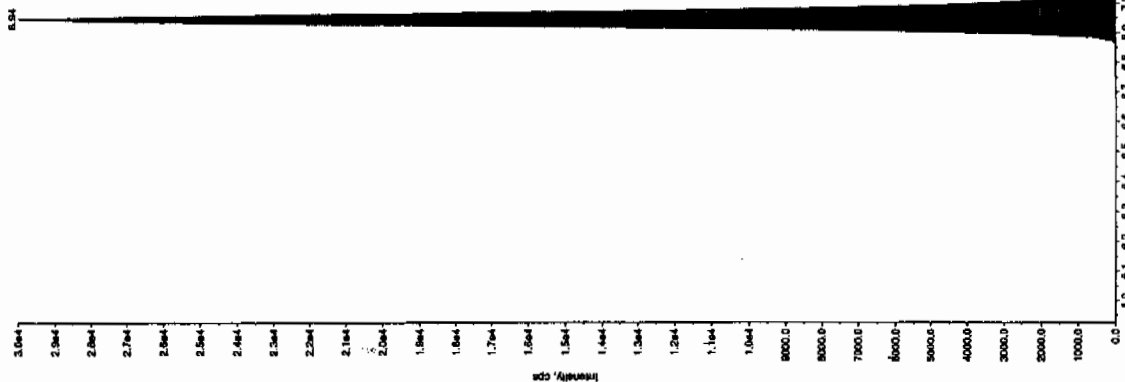
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 3/14/00

Sample Name: "HXX0031127091" Sample ID: "H1ER" File: "EX03100130.wif"
 Peak Name: "TATB" Mass(es): "257.2024.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 88.1 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 1:17:14 AM
 Acq. Time: 1:17:14 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.94 min
 Area: 1.20e+005 counts
 Height: 30004.587 cps
 Start Time: 6.84 min
 End Time: 7.50 min

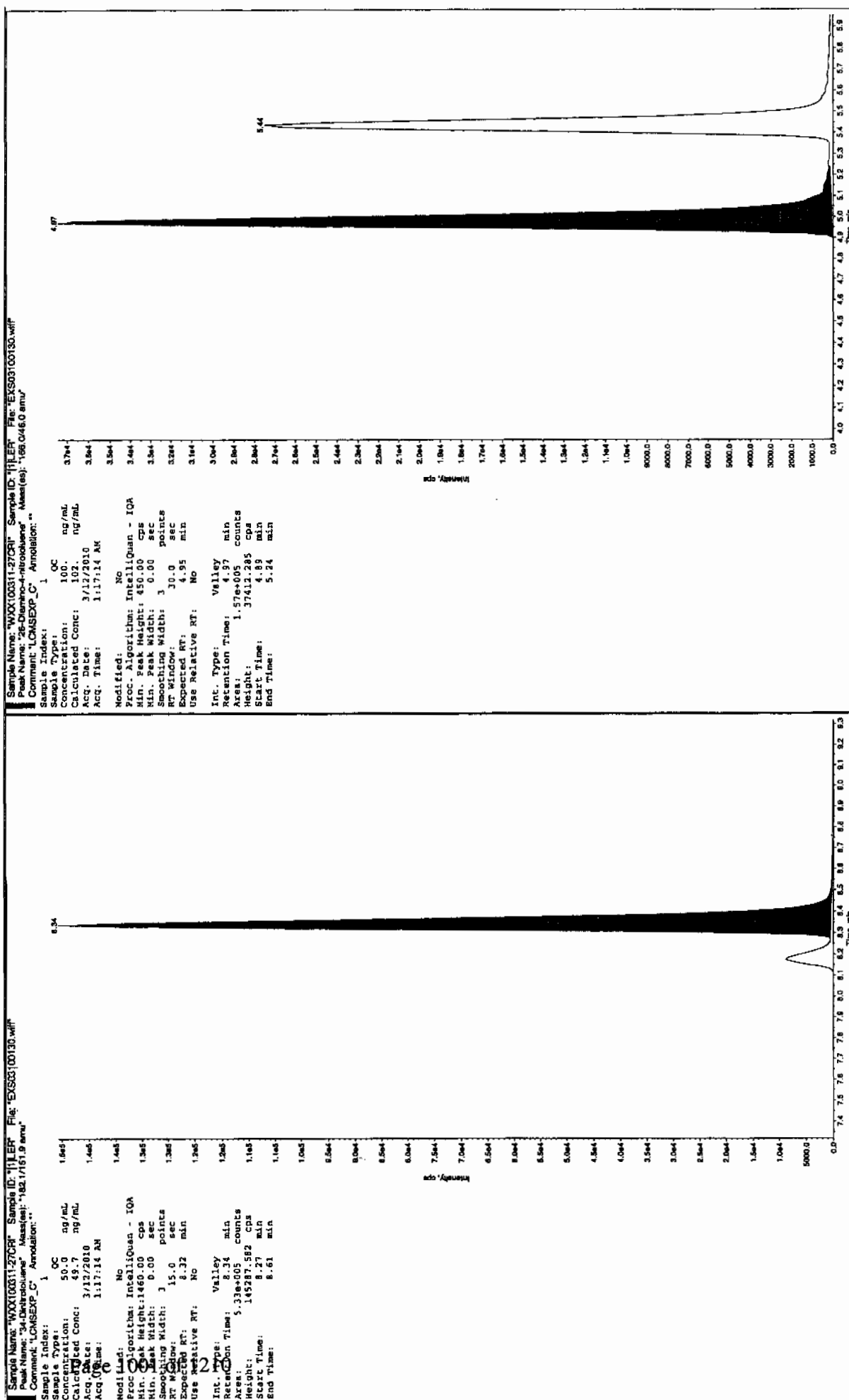


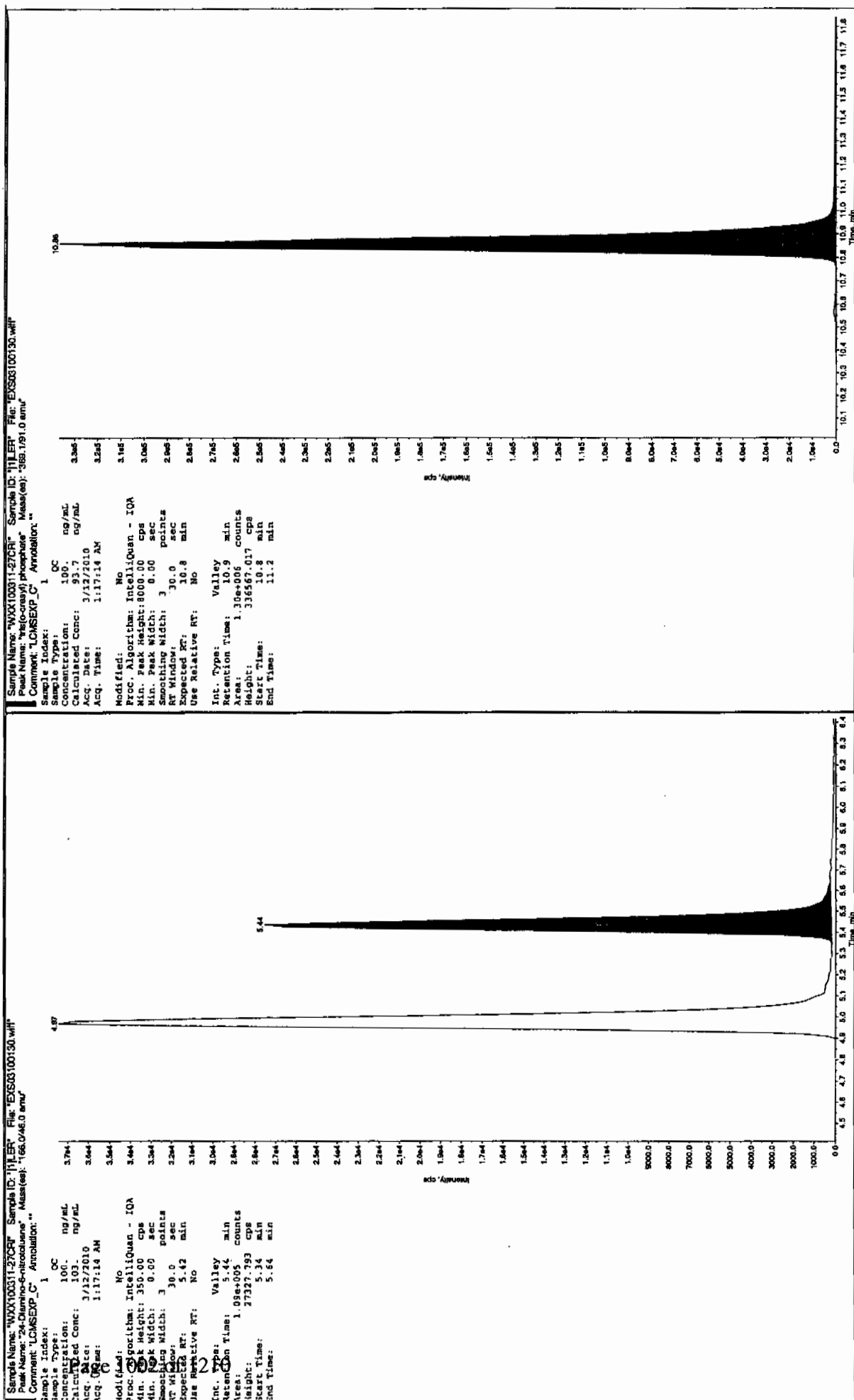
Sample Name: "HXX0031127091" Sample ID: "H1ER" File: "EX03100130.wif"
 Peak Name: "35-Dimethyl" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 88.1 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 1:17:14 AM
 Acq. Time: 1:17:14 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 7.86e+005 counts
 Height: 20165.024 cps
 Start Time: 8.08 min
 End Time: 8.30 min



4/14/03/15/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100141.wiff

Analysis Date: 12-MAR-10 04:09

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	587	117	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	265	106	
3,5-Dinitroaniline	500	538	108	
TATB	500	475	95	
tris(o-cresyl) phosphate	500	477	95	

Recovery Limits:

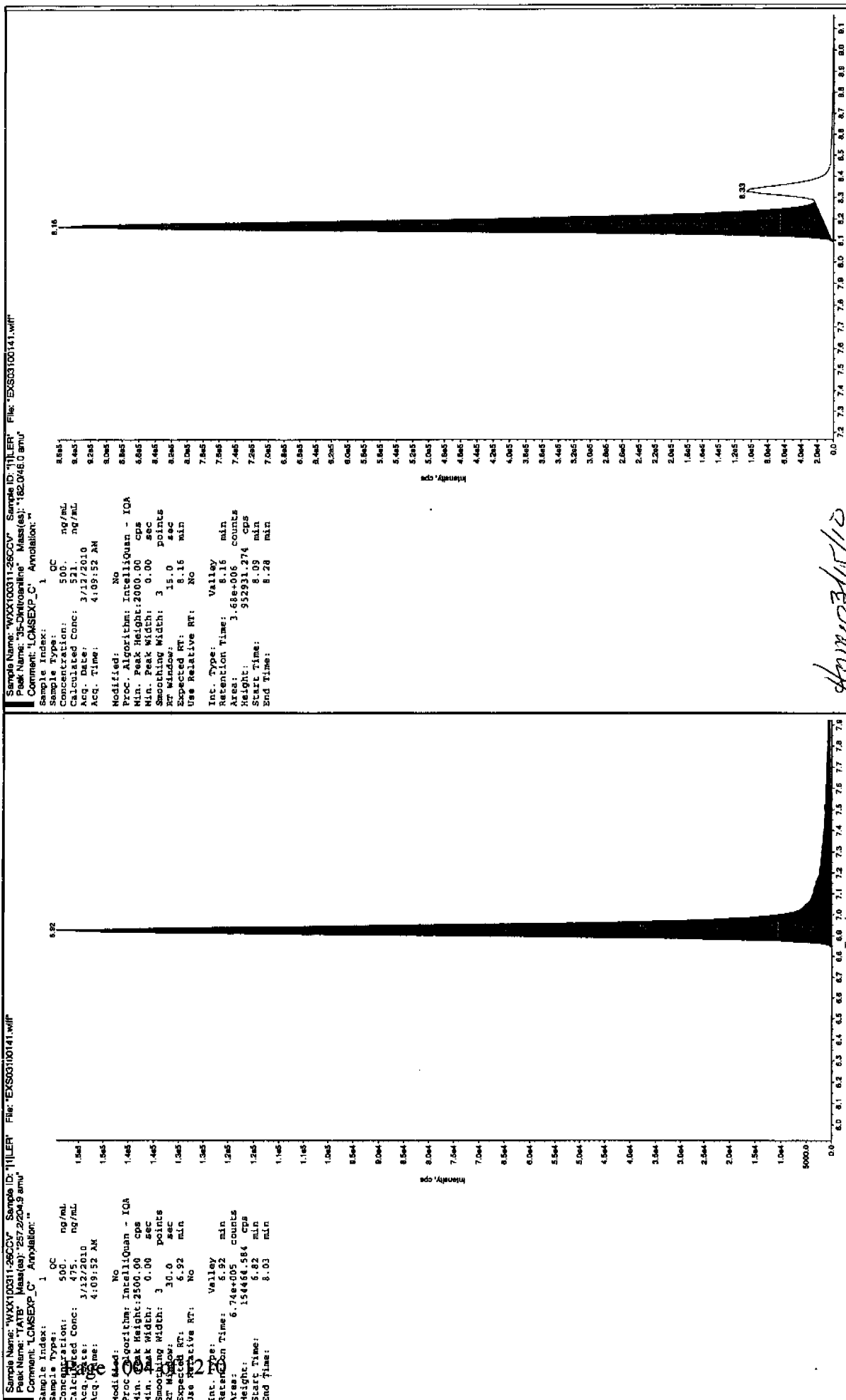
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

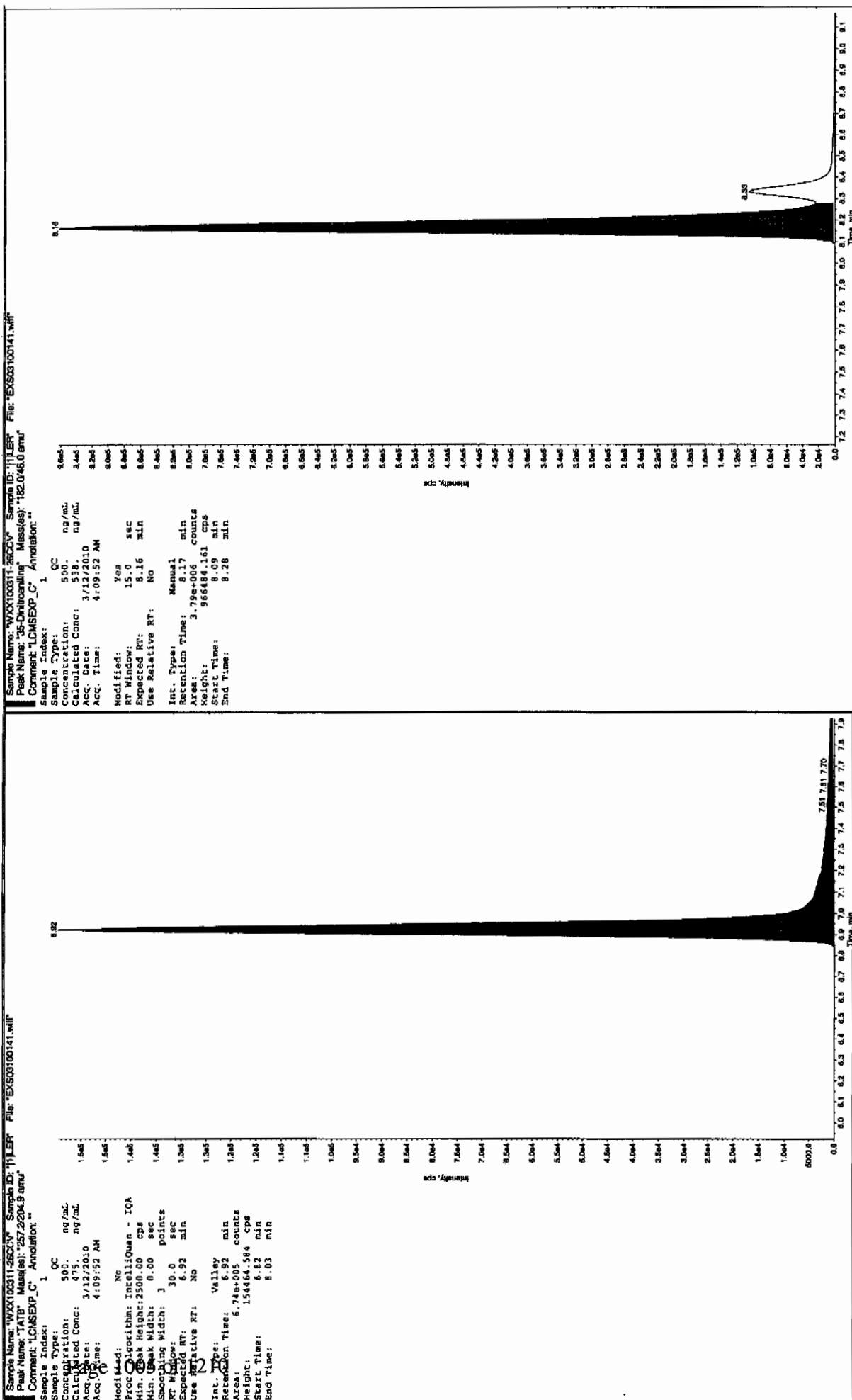
Column used to flag Recovery outside of Limits

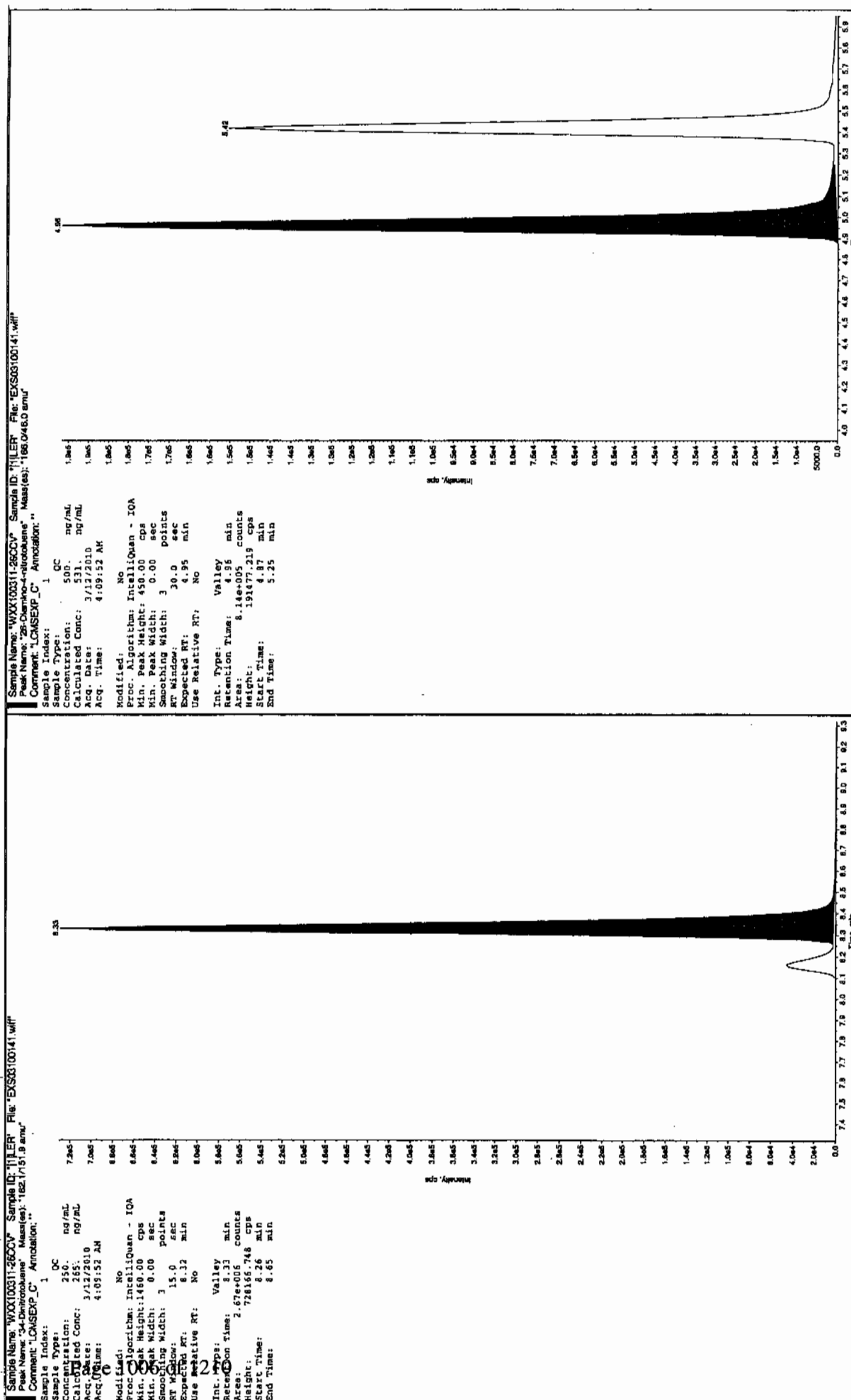
* Value outside of Recovery Limits

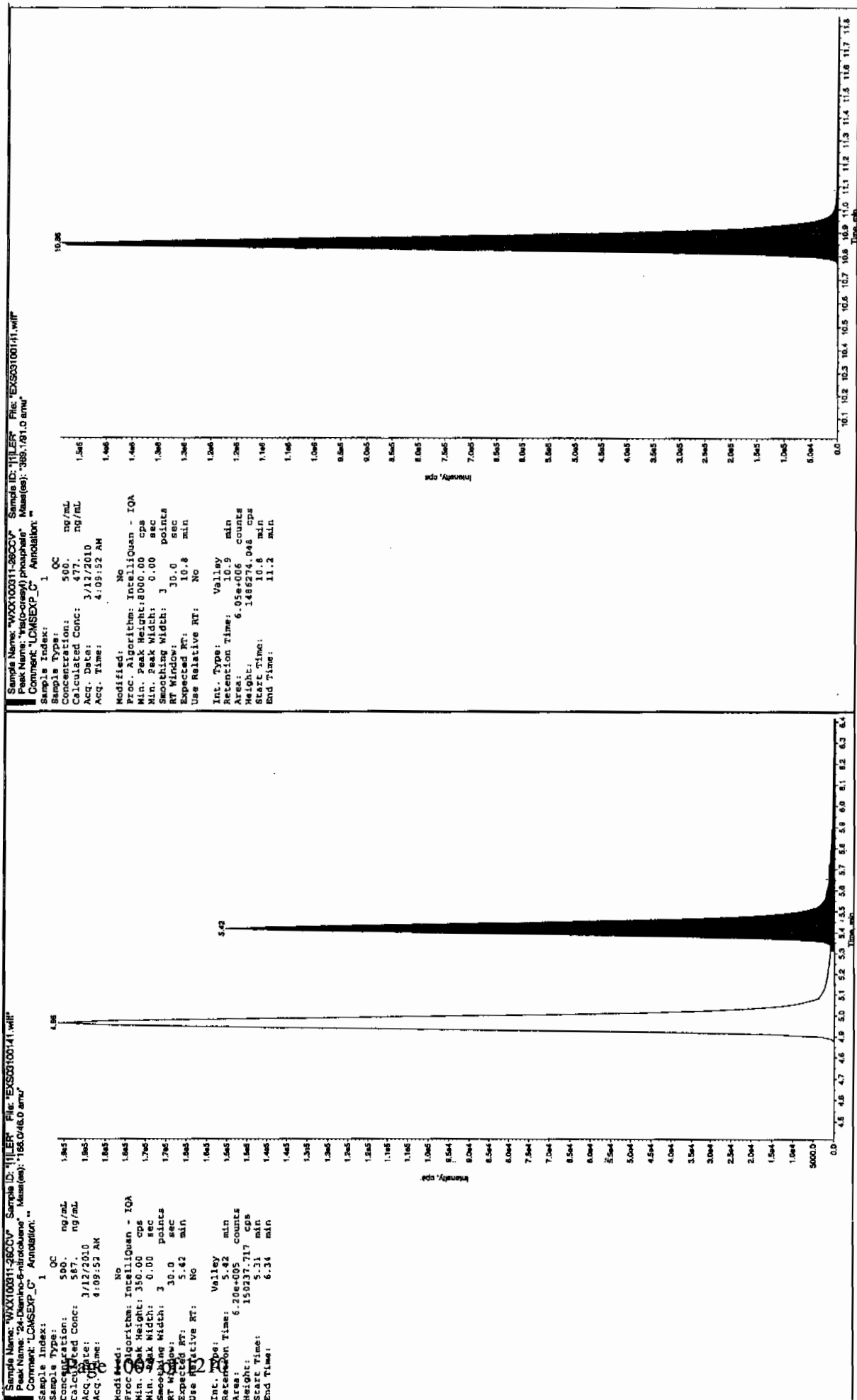
Before Jan 3/13/10



after den 3/14/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100143.wiff

Analysis Date: 12-MAR-10 04:41

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	112	112	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	87.5	88	
TATB	100	94.5	95	
tris(o-cresyl) phosphate	100	91.4	91	

Recovery Limits:

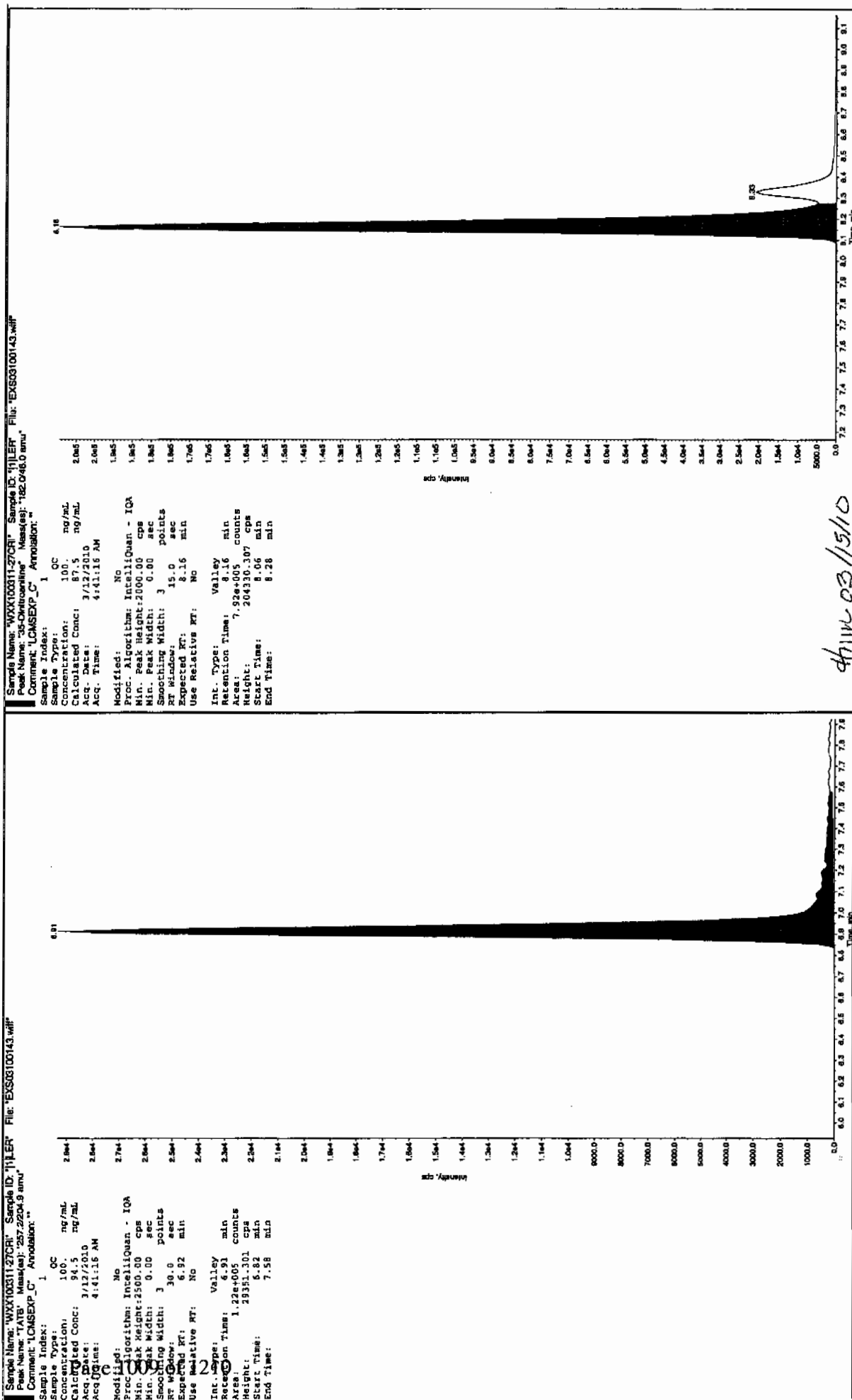
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

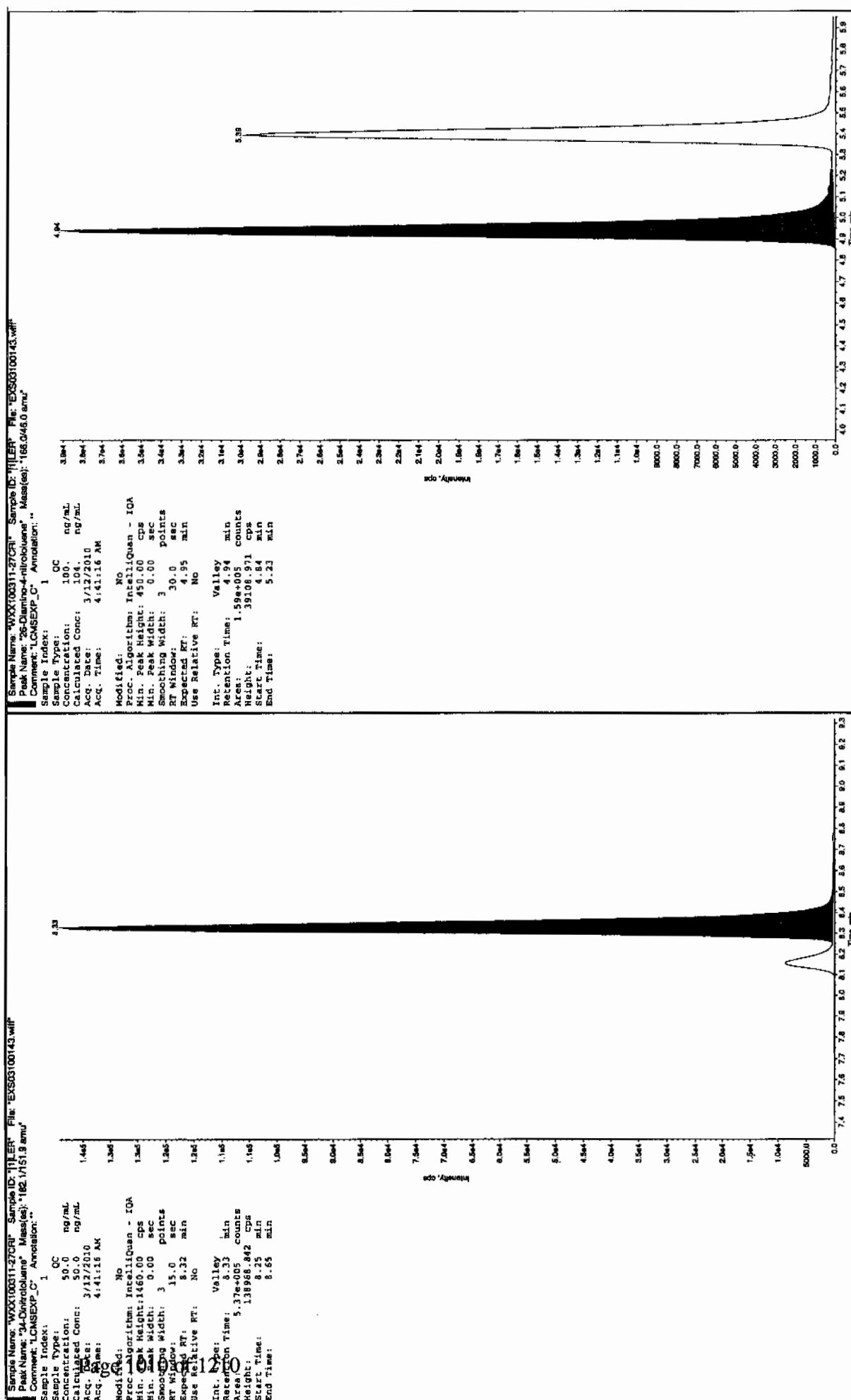
Column used to flag Recovery outside of Limits

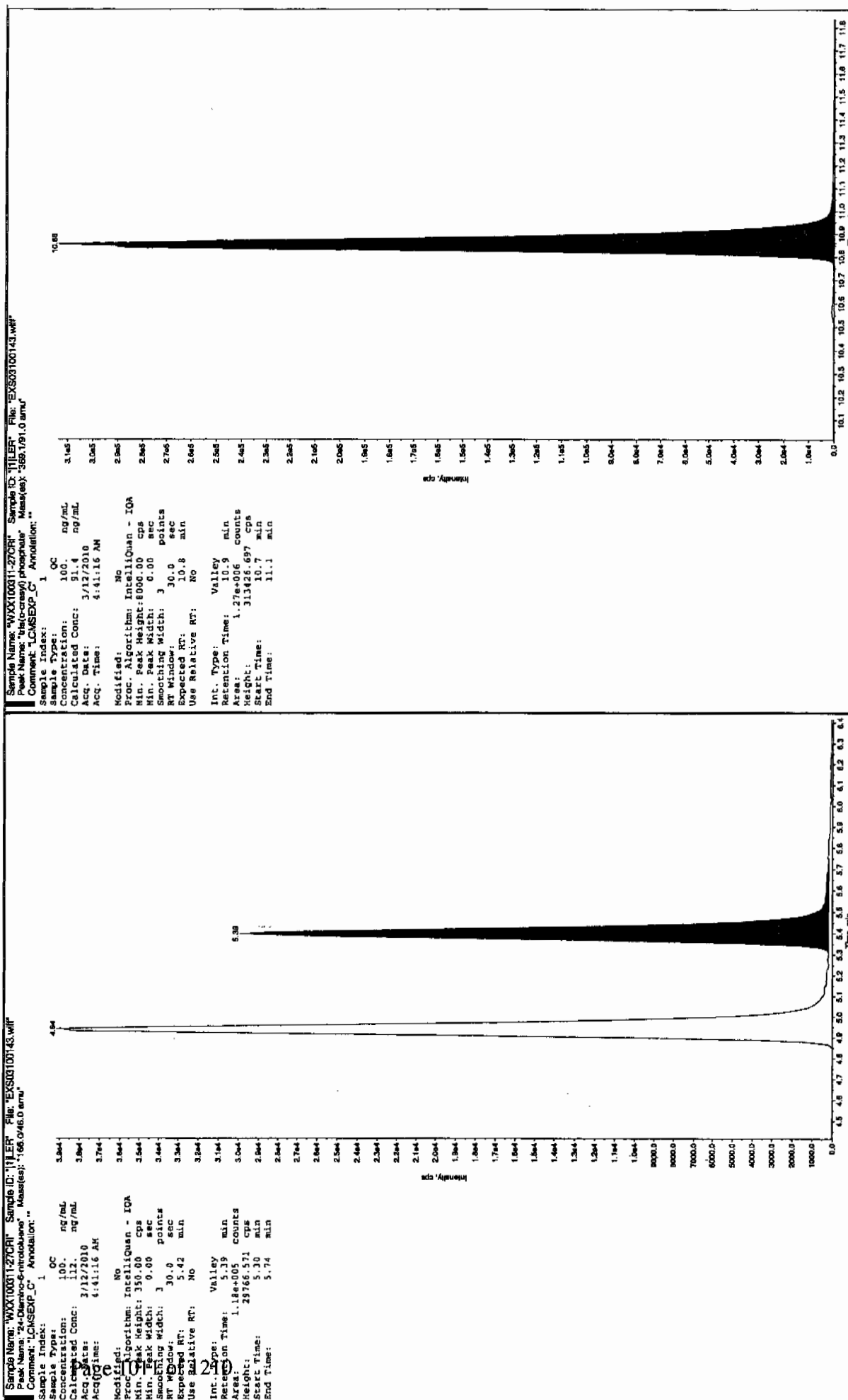
* Value outside of Recovery Limits

for 3/14/10



4/11/10 03/15/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100154.wiff

Analysis Date: 12-MAR-10 07:34

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	545	109	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	279	112	
3,5-Dinitroaniline	500	568	114	
TATB	500	485	97	
tris(o-cresyl) phosphate	500	484	97	

Recovery Limits:

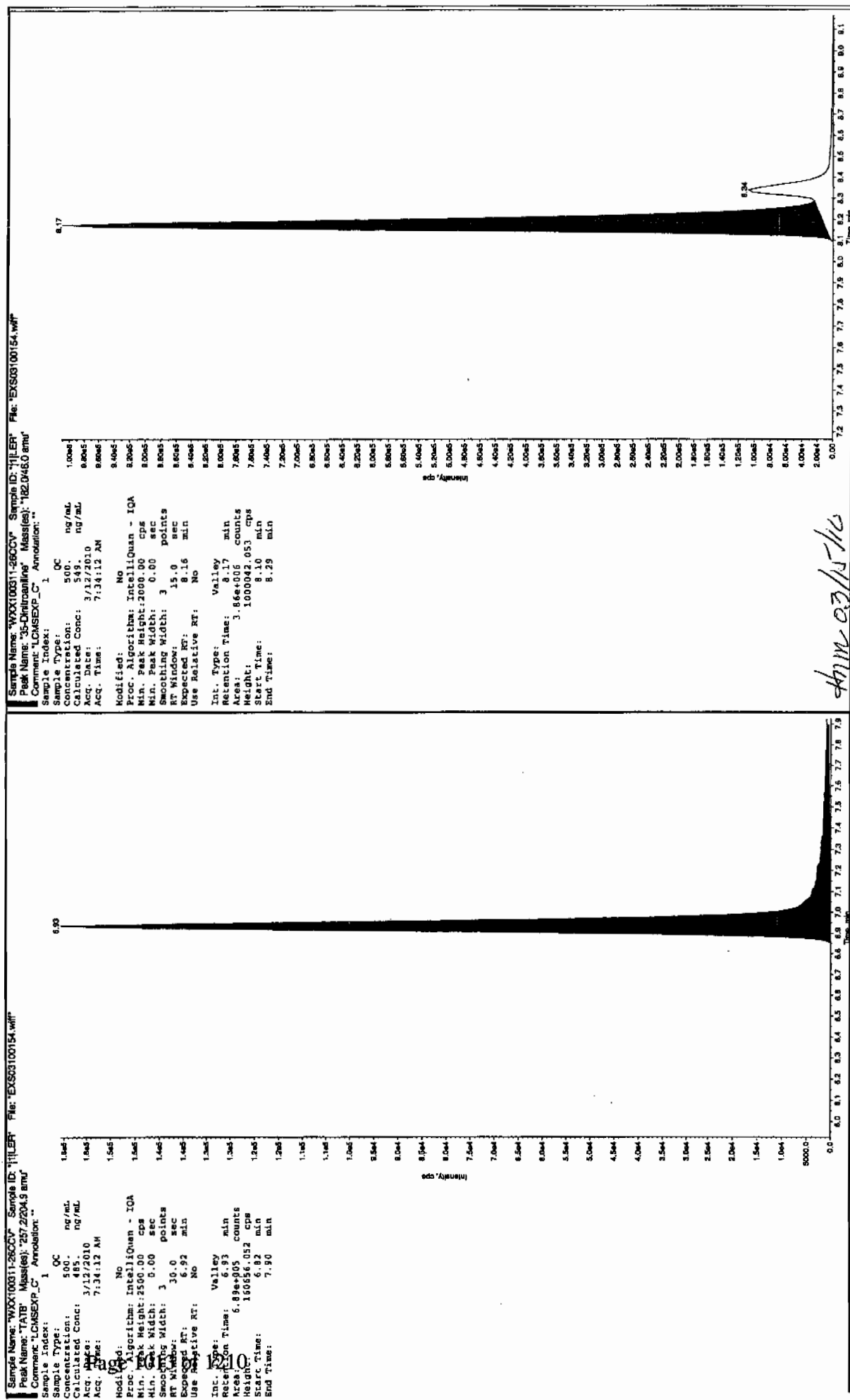
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

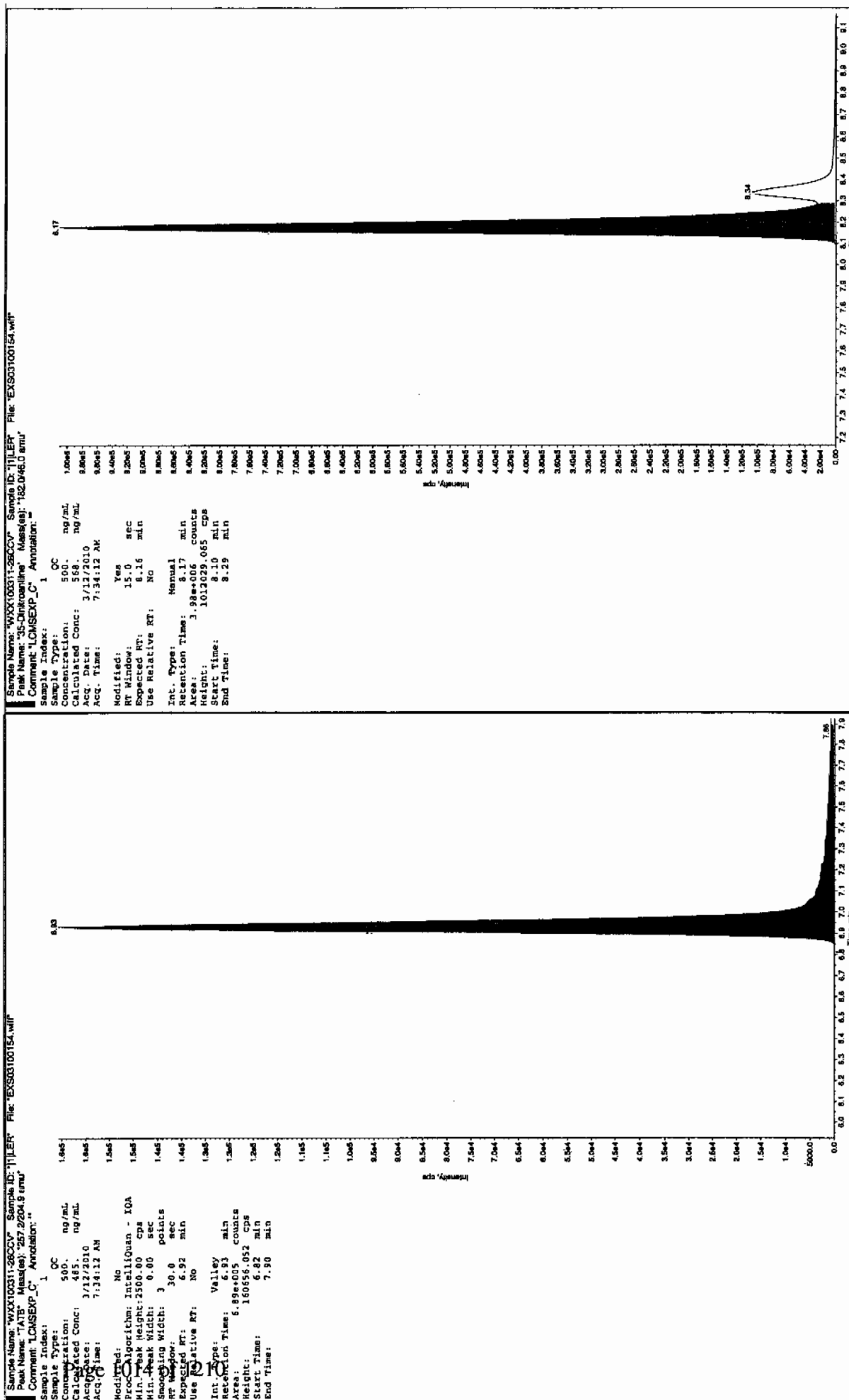
* Value outside of Recovery Limits

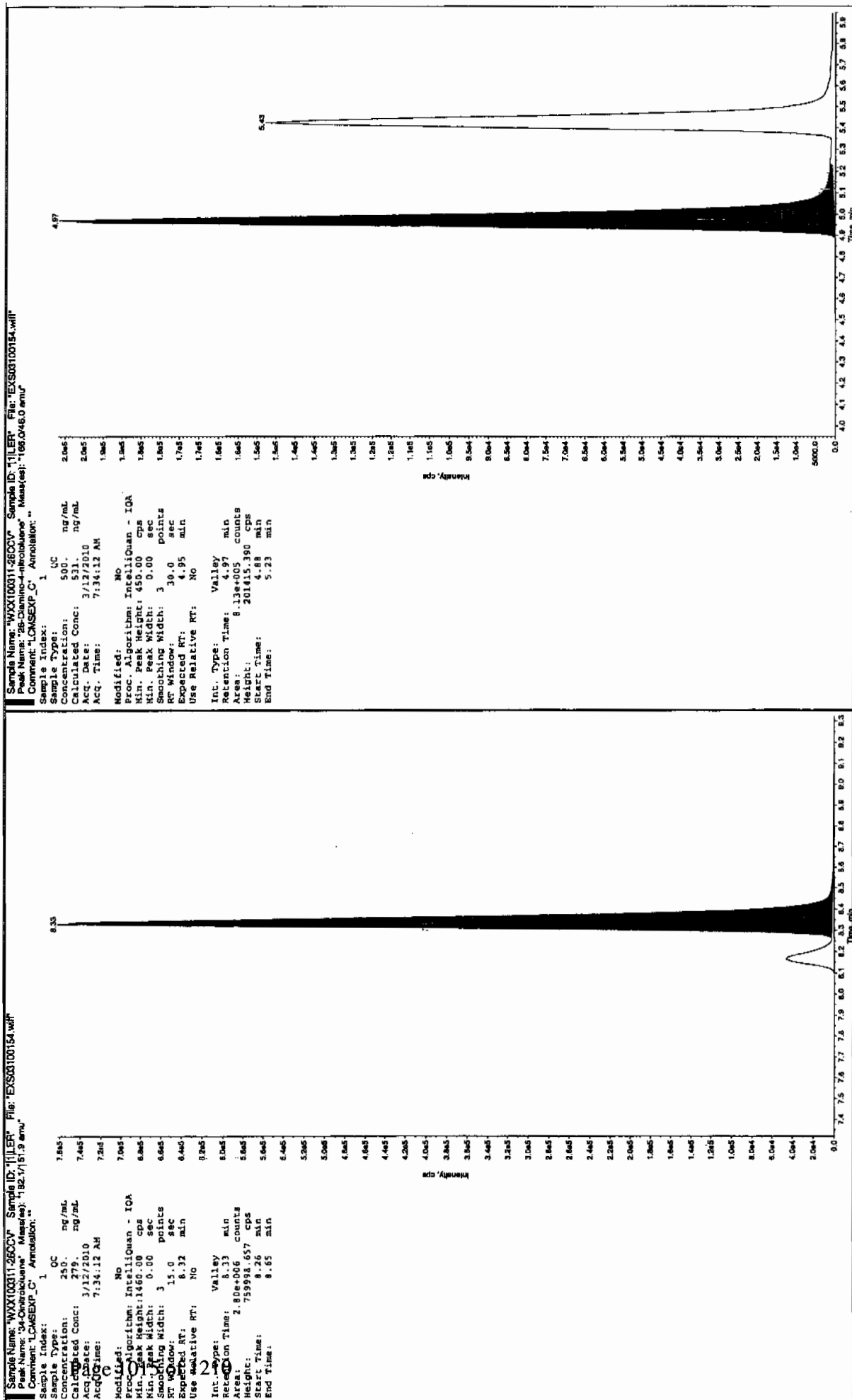
Before Jan 31/10



4/11/03/15/10

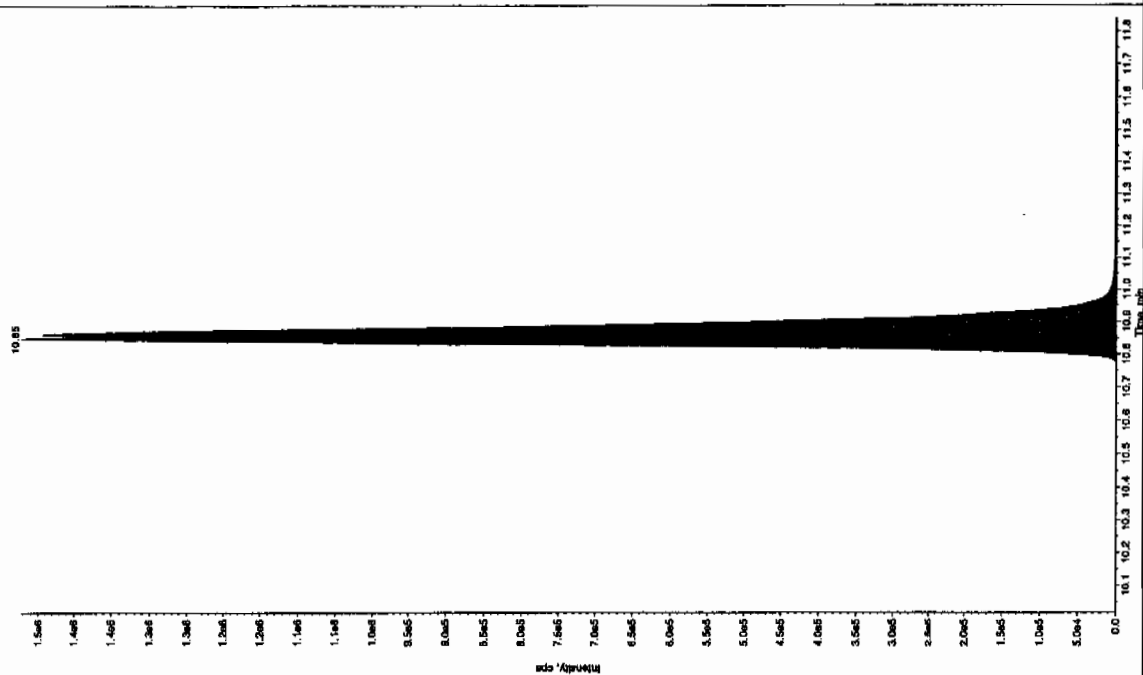
After Jan 31/14/10





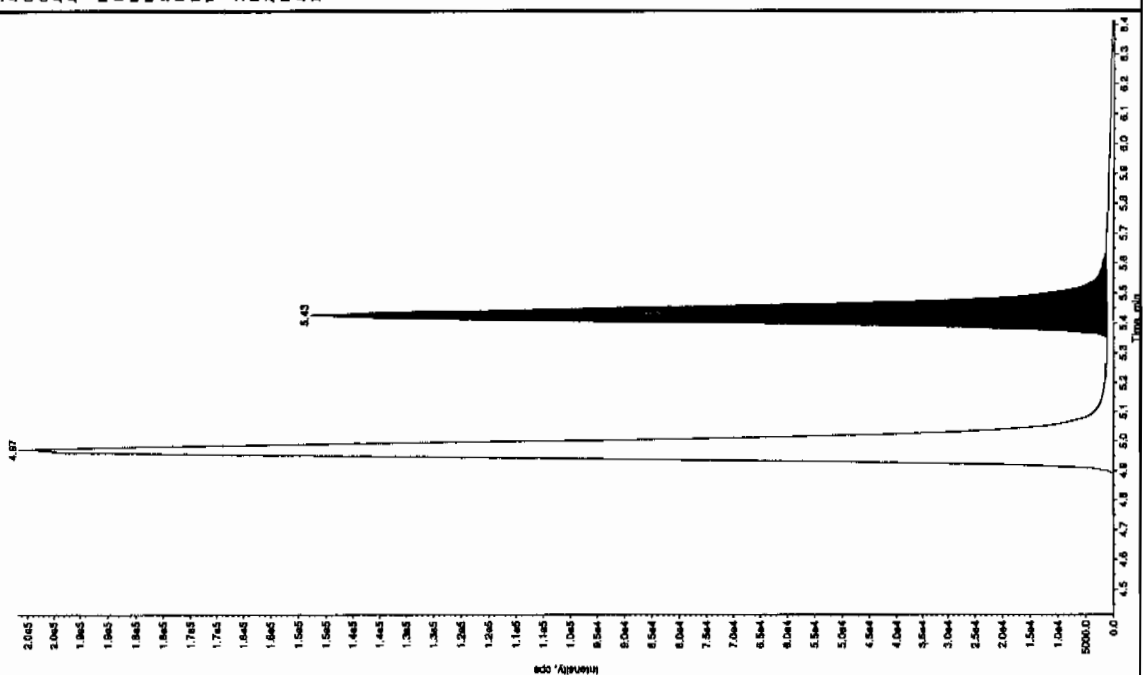
Sample Name: "WXX100311-2500V" Sample ID: "11ER" File: "EXS03100154.wif"
 Peak Name: "tri(O-allyl) phosphate" Mass(es): "359.150.0 amu"
 Comment: "LONSEAP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 500. ng/mL
 Concentration: 484. ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 7:34:12 AM
 Acq. Time: 7:34:12 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.13e+06 counts
 Height: 147160.342 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100311-2500V" Sample ID: "11ER" File: "EXS03100154.wif"
 Peak Name: "24-Diamino-6-methyluracil" Mass(es): "166.046.0 amu"
 Comment: "LONSEAP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 500. ng/mL
 Concentration: 545. ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 7:34:12 AM
 Acq. Time: 7:34:12 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 5.75e+05 counts
 Height: 146750.138 cps
 Start Time: 5.34 min
 End Time: 5.55 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1905

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100156.wiff

Analysis Date: 12-MAR-10 08:05

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	114	114	
2,6-Diamino-4-nitrotoluene	100	112	112	
3,4-Dinitrotoluene	50	52.2	104	
3,5-Dinitroaniline	100	87.7	88	
TATB	100	92.3	92	
tris(o-cresyl) phosphate	100	95.6	96	

Recovery Limits:

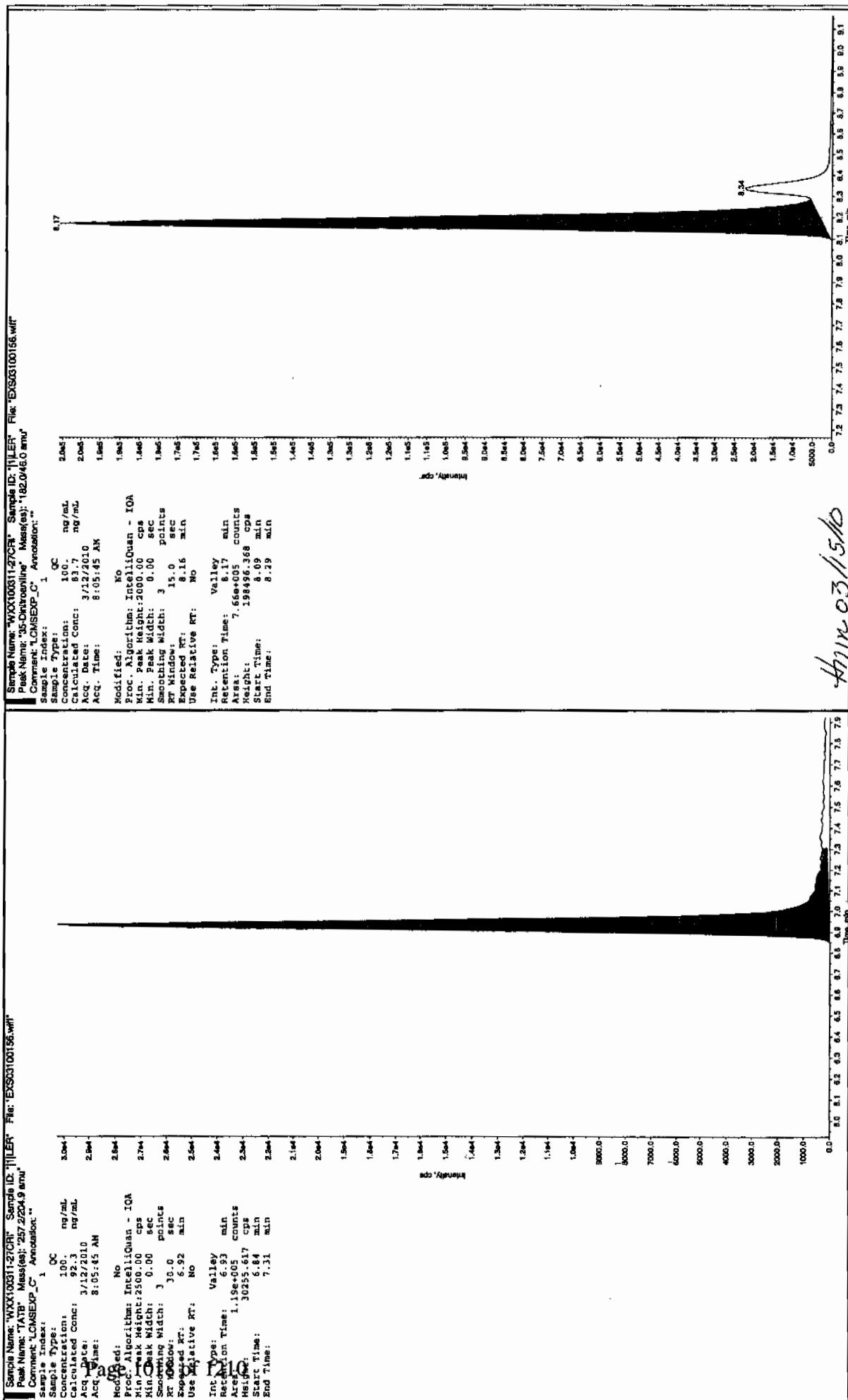
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/3/10

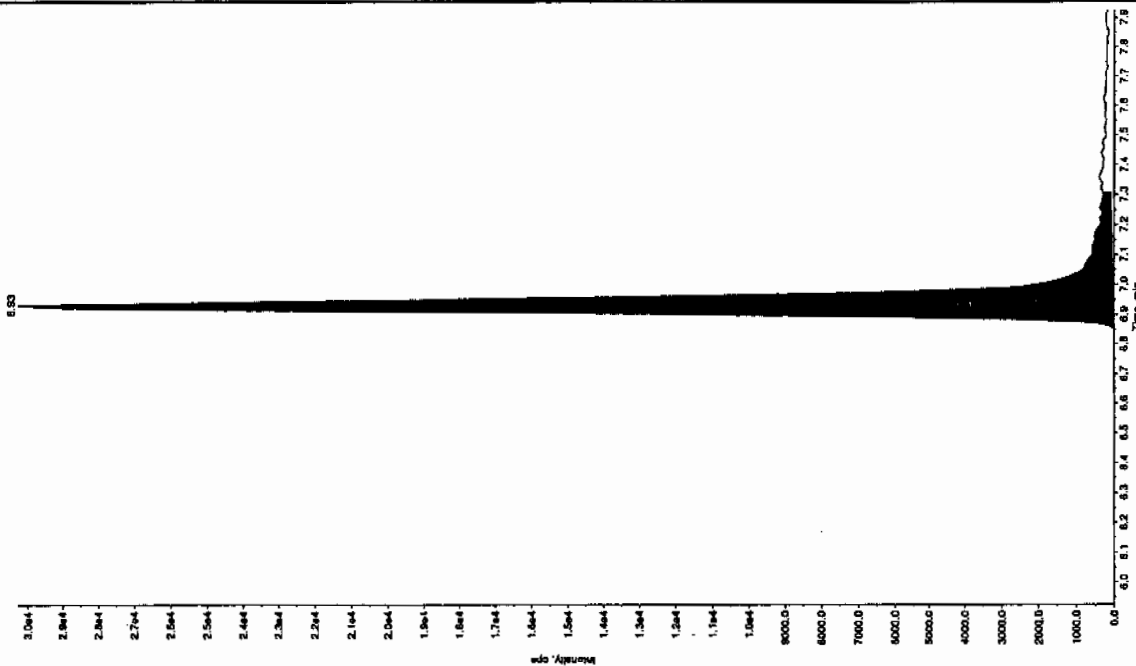


After 03/15/10

after Jan 31/14/16

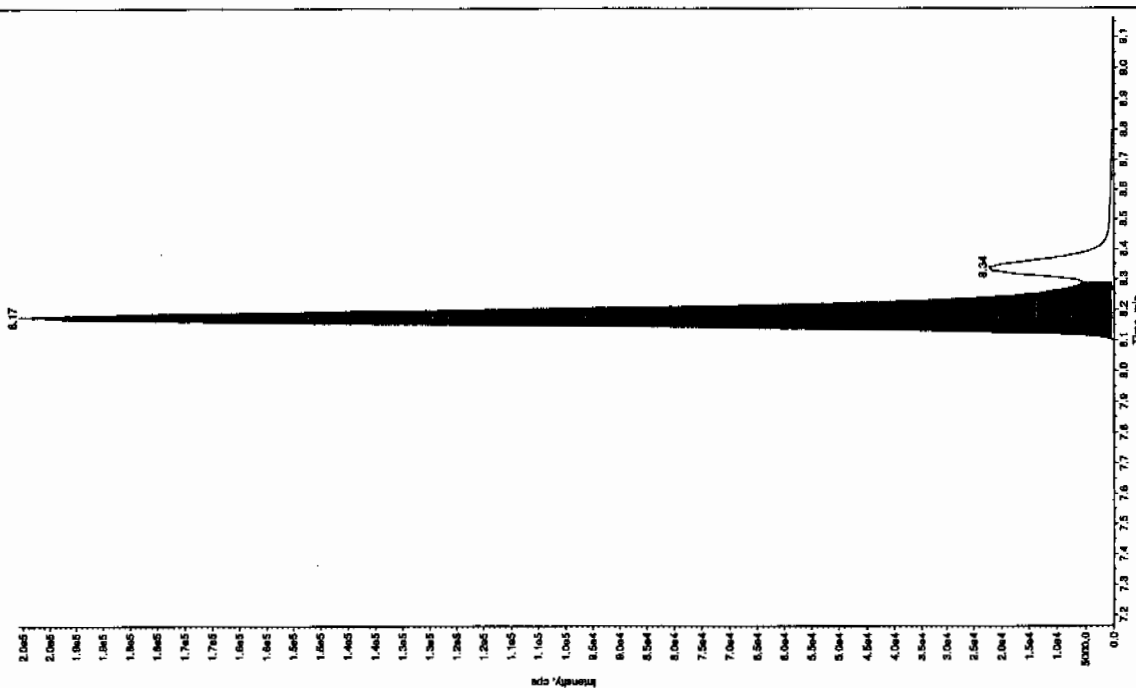
Sample Name: "WXX100311-270R" Sample ID: "JLBER" File: "EX503100156.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

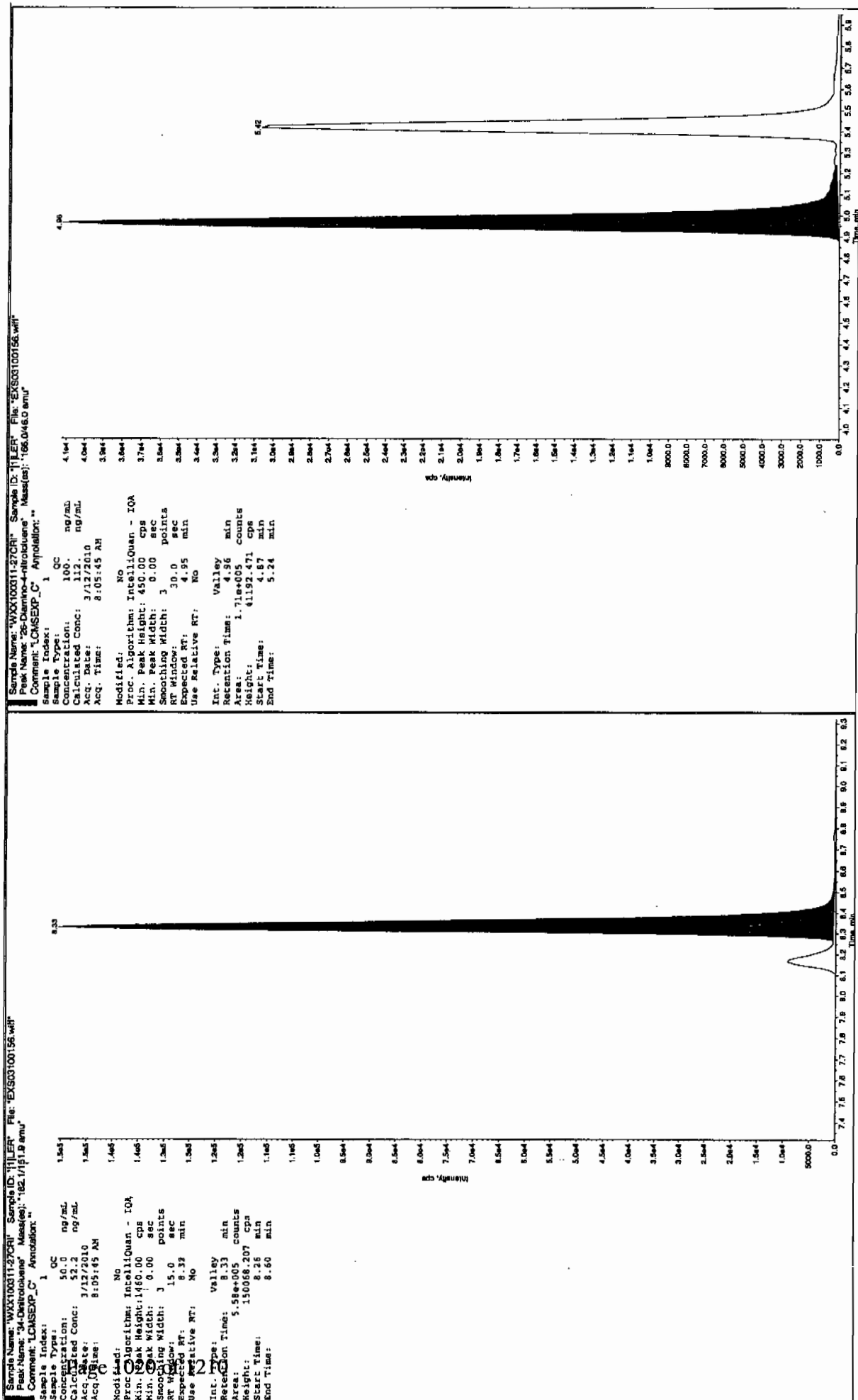
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 92.3 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 8:03:43 AM
 Modified: No
 Proc Algorithm: InCelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Sec. Peak Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 1.19e+005 counts
 Height: 30255.817 cps
 Start Time: 6.86 min
 End Time: 7.11 min

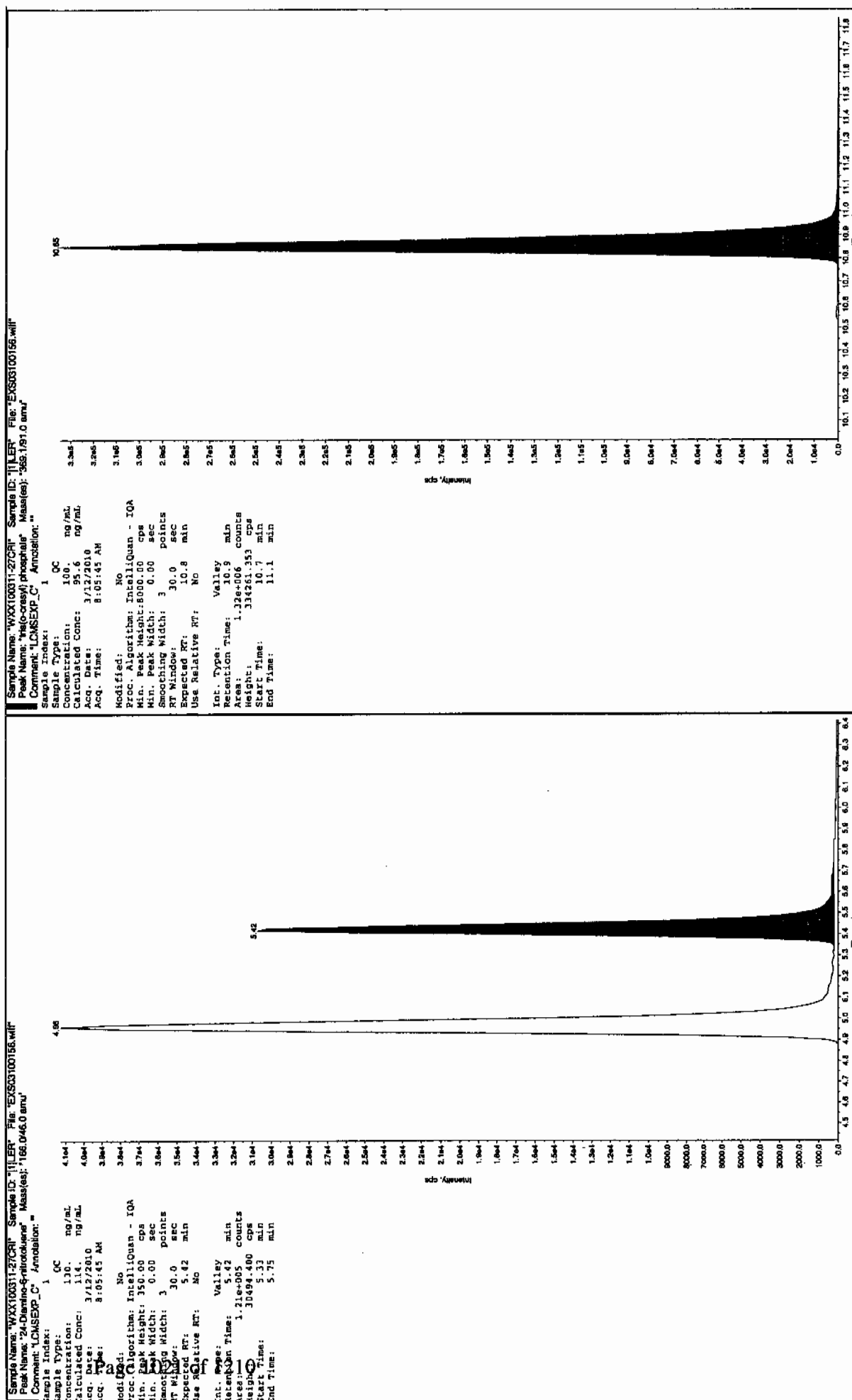


Sample Name: "WXX100311-270R" Sample ID: "JLBER" File: "EX503100156.will"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 87.7 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 8:03:43 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.17 min
 Area: 7.53e+005 counts
 Height: 200576.996 cps
 Start Time: 8.10 min
 End Time: 8.29 min







QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 955062

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047525

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412013a

Date Analyzed: 12-APR-10 21:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 25 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412013a

Date: 12-Apr-2010

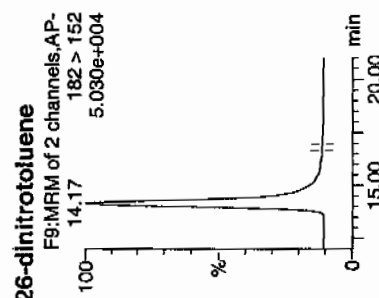
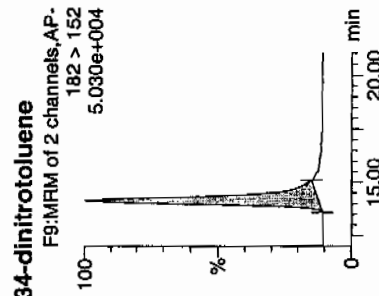
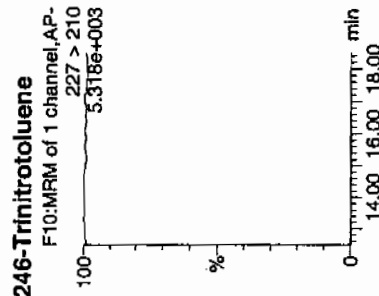
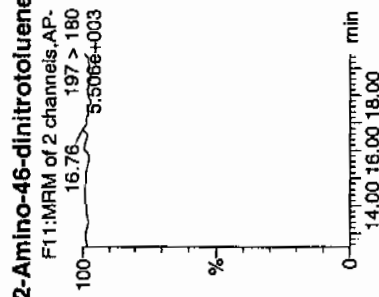
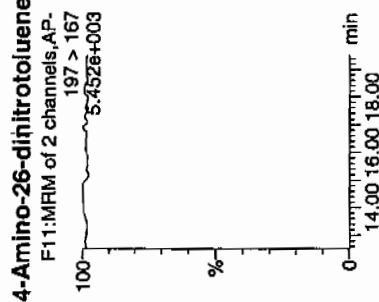
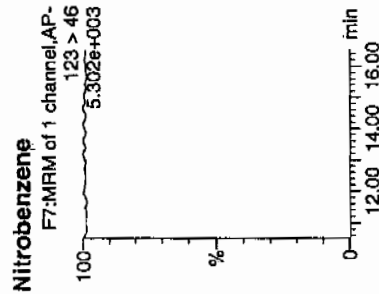
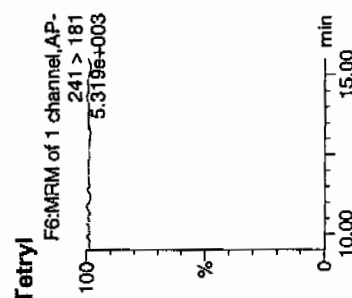
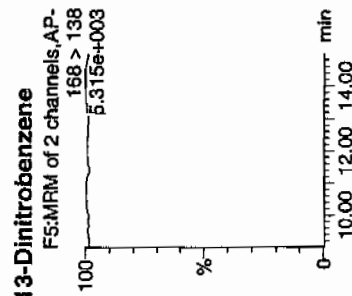
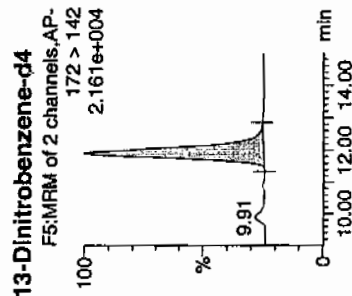
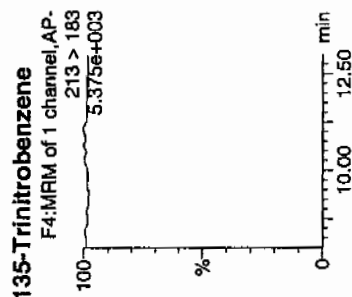
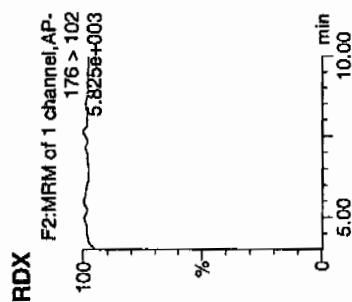
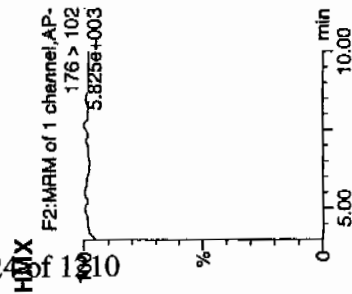
Time: 21:34:28

ID: 1202047525

Vol: 2:1A

LAU/955063 / Souz / MB / 2 /

MB
4/13/10



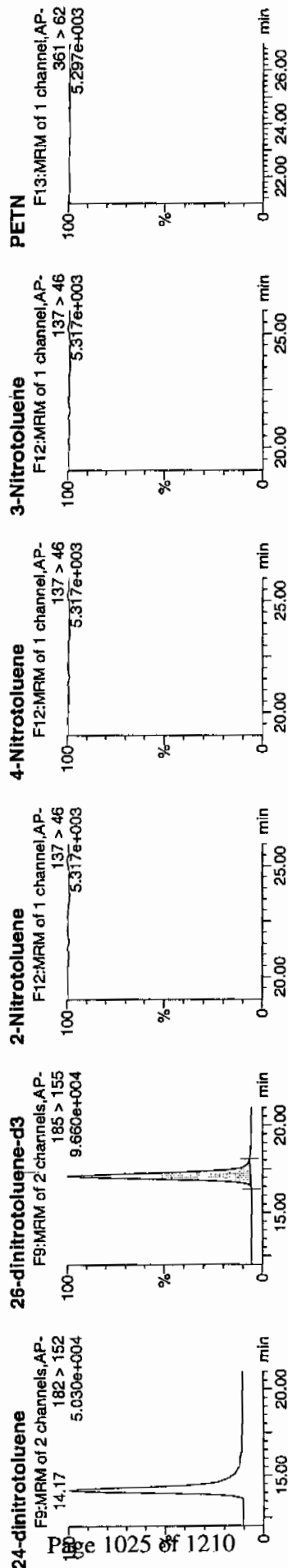
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04/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 26 of 77

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	Area	SI Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	%SIN
1202047525	HMX	176 > 102		6169.823								
1202047525	RDX	176 > 102		6169.823								
1202047525	135-Trinitrobenzene	213 > 183		6169.823								
1202047525	13-Dinitrobenzene-d4	172 > 142	11.92	6169.823	6169.823	6169.823	bb		524.6124	104.9	4.9	548.2
1202047525	13-Dinitrobenzene	168 > 138		6169.823								
1202047525	Tetryl	241 > 181		6169.823								
1202047525	Nitrobenzene	123 > 46		37873.188								
1202047525	4-Amino-26-dinitrotoluene	197 > 167		37873.188								
1202047525	2-Amino-46-dinitrotoluene	197 > 180		37873.188								
1202047525	246-Trinitrotoluene	227 > 210		37873.188								
1202047525	34-dinitrotoluene	182 > 152	14.17	19043.357	19043.357	251.409	bb		243.8199	97.5	-2.5	1026.5
1202047525	26-dinitrotoluene	182 > 152		37873.188			MM-	13-Apr-10	11:07:04			
1202047525	24-dinitrotoluene	182 > 152		37873.188								
1202047525	26-dinitrotoluene-d3	185 > 155	17.09	37873.188	37873.188	37873.188	bb		541.3057	108.3	8.3	3727.7
1202047525	2-Nitrotoluene	137 > 46		37873.188								
1202047525	4-Nitrotoluene	137 > 46		37873.188								
1202047525	3-Nitrotoluene	137 > 46		37873.188								
1202047525	PETN	361 > 62		37873.188								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 955062

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047525

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100131.wiff

Date Analyzed: 12-MAR-10 01:32

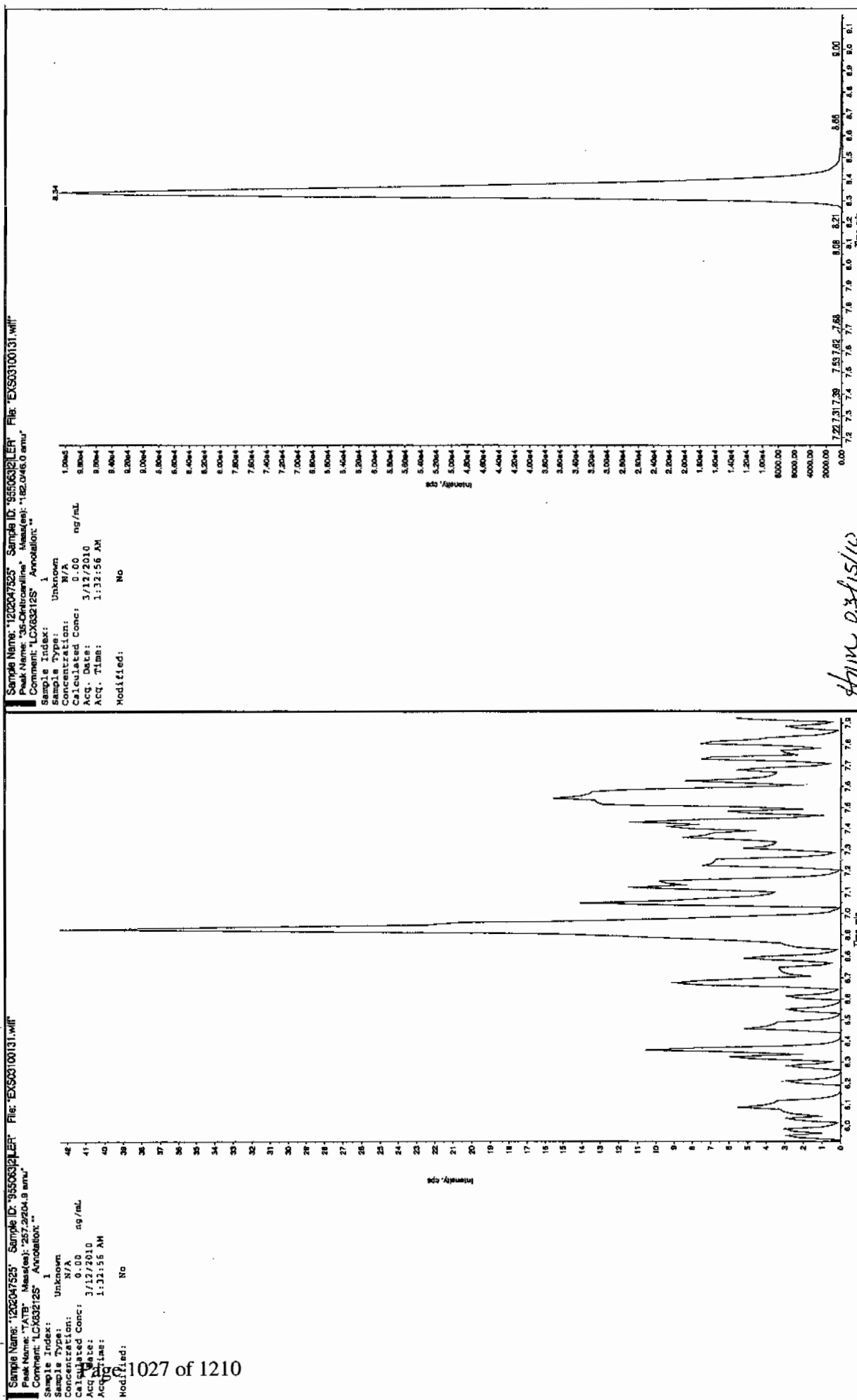
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

for 3/14/10



for 03/15/10

Sample Name: "I202047325" Sample ID: "955063121ER" File: "EXS03100131.wiff"
Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "166.0/45.0 amu"

Comment: "LCX83212S" Annotation: "4"

Sample Index:

Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Seq. Date:	3/12/2010
Seq. Time:	1:32:56 AM
Modified:	NO

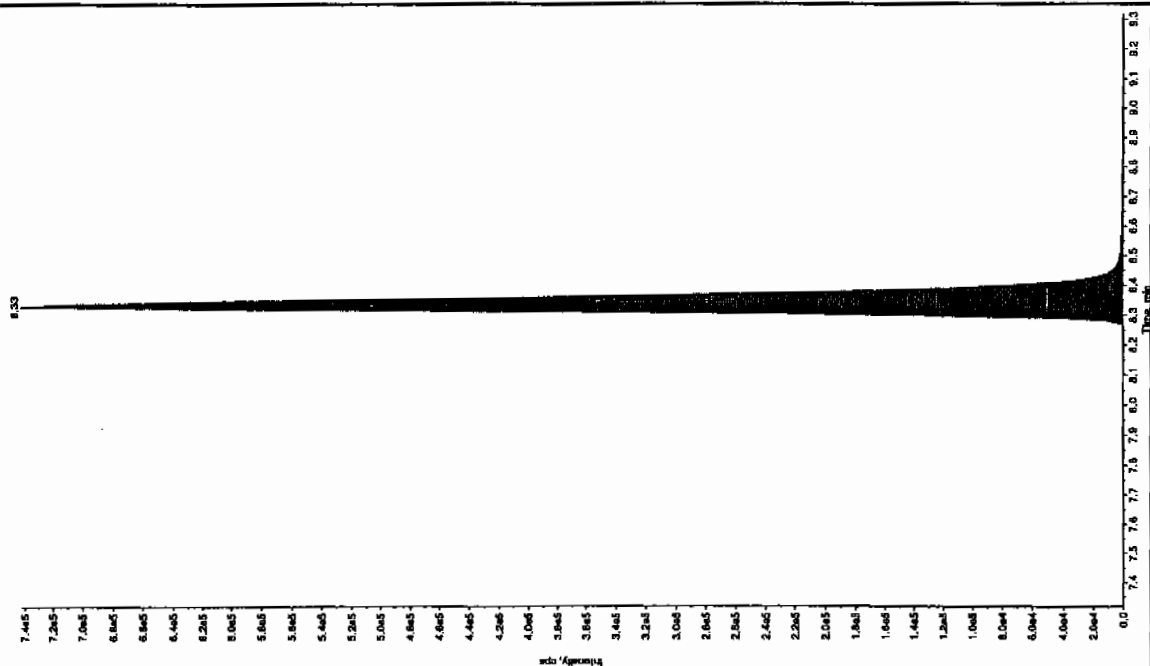
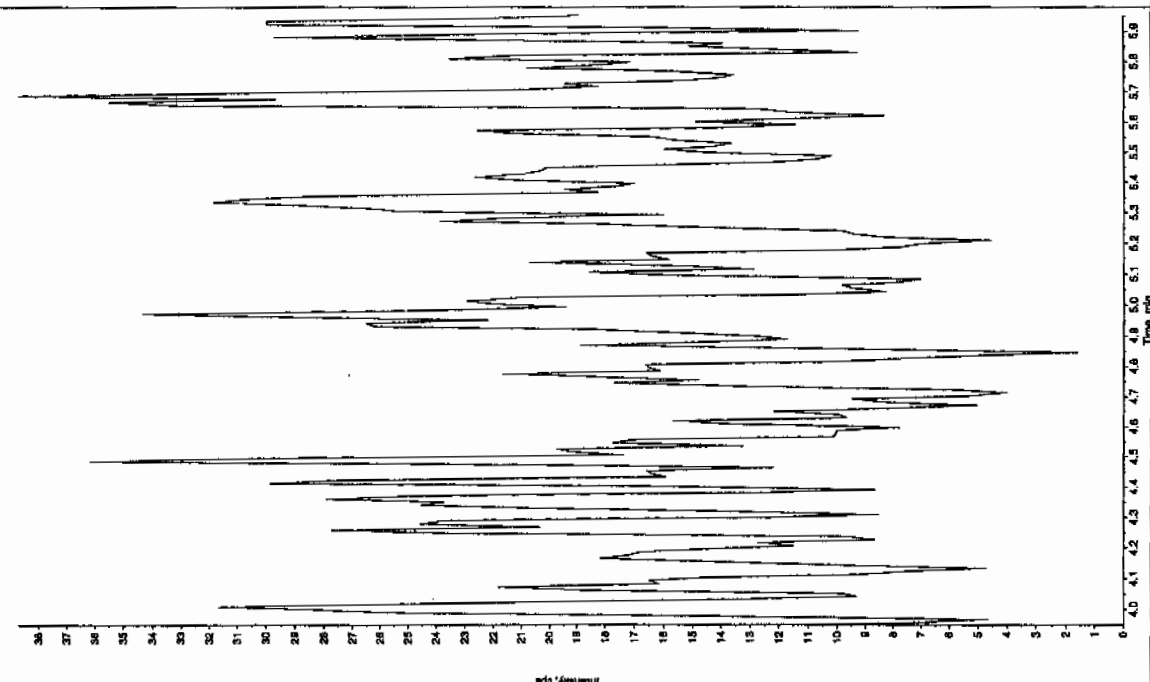
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concentration: N/A

Calculated Conc:	0.00	ng/mL
Date:	7/12/2010	

Acq. Date: 3/12/2010
Time: 1:12:56 AM

cc. Time: 1:32:56 AM



Sample Name: "1202047525" Sample ID: "95505321ER" File:
Peak Name: "34-Chlorobenzene" Mass(es): "182.1/151.9 amu"

Sample Name: "1202047525" Sample ID: "B5506312|LER" File: "EXS03100131.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Peak Name: "34-Orthobromophenyl" Mass: 235
Comment: "LCX83212S" Annotation: "

sample Index: 1

sample index:	1
sample type:	Unknown

sample type: unknown
concentration: N/A

Concentration	ng/mL
279	279

3/12/2010

1:32:56 AM

ge?

Modified: No

Proc. Algorithm: Intelliguen - IQA

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97	0.00	sec
98	0.00	sec
99	0.00	sec
100	0.00	sec

smoothing width: 3 points
 at window: 15.0 sec

RT Window: 15.0 sec
Exceeded RT: 0.32 min

Expected RT:	Relative RT:	RT:
8.32	NO	8.32

88	Relative RT:	NO
47		

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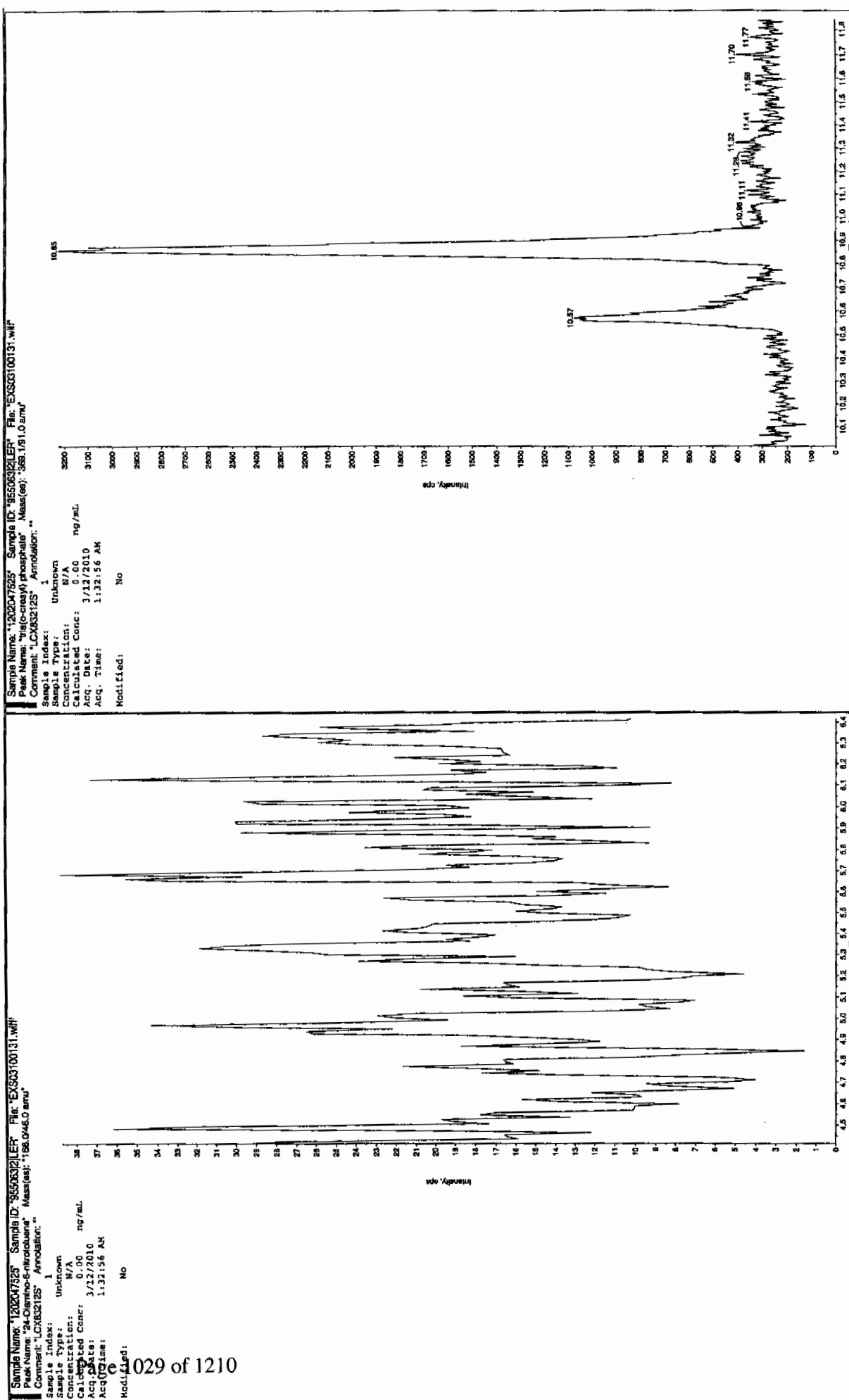
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rec: 2.80e+006 counts

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Weight: 742547.791 cps

Start Time: 8.25 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 955062

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047526

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412014a

Date Analyzed: 12-APR-10 22:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4600	
121-14-2	2,4-Dinitrotoluene	5190	
121-82-4	RDX	5400	
19406-51-0	4-Amino-2,6-dinitrotoluene	4810	
2691-41-0	HMX	4460	
35572-78-2	2-Amino-4,6-dinitrotoluene	4980	
479-45-8	Tetryl	1020	
606-20-2	2,6-Dinitrotoluene	4910	
78-11-5	PETN	4690	
88-72-2	o-Nitrotoluene	4400	
98-95-3	Nitrobenzene	5130	
99-08-1	m-Nitrotoluene	4440	
99-35-4	1,3,5-Trinitrobenzene	3890	
99-65-0	m-Dinitrobenzene	5000	
99-99-0	p-Nitrotoluene	4970	

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 27 of 77

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA.qtd, Time: Tue Apr 13 11:12:22 2010

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Time: 22:04:00

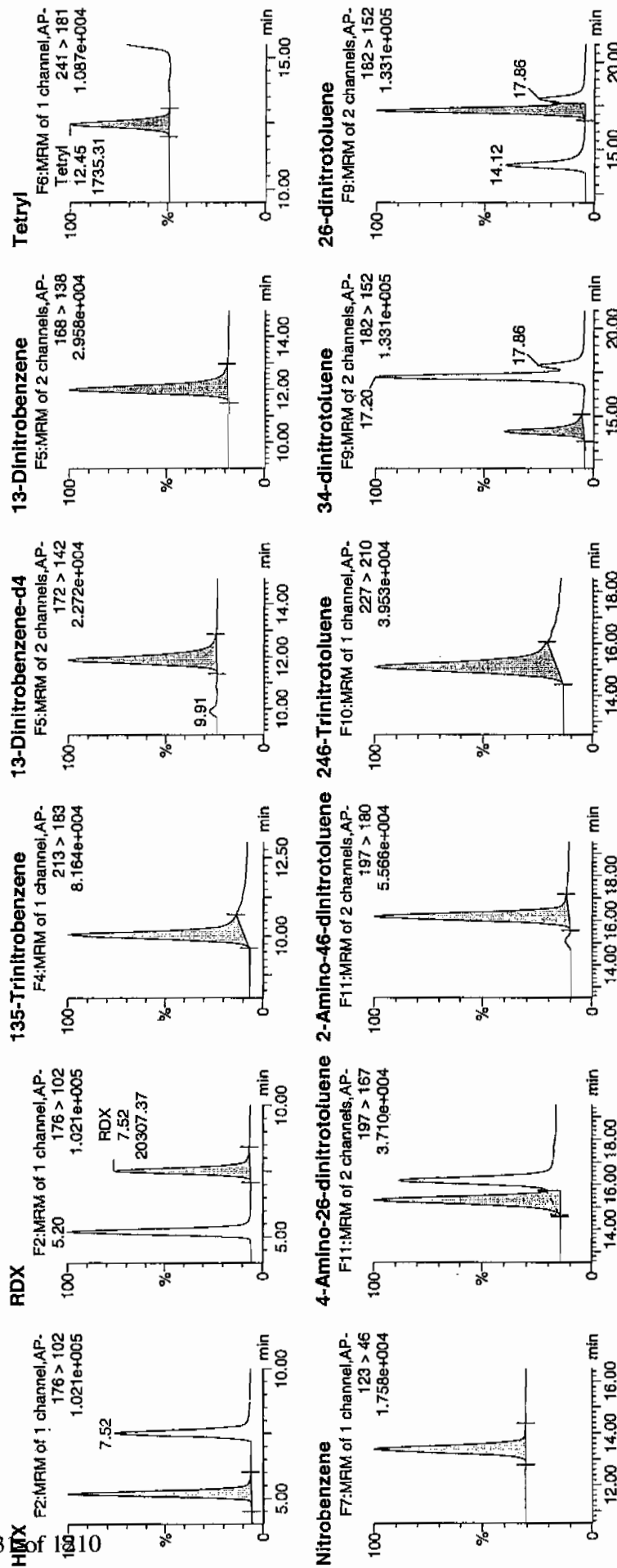
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LAUW/955063 / 8022 / LC8 / 2 /

4/13/10

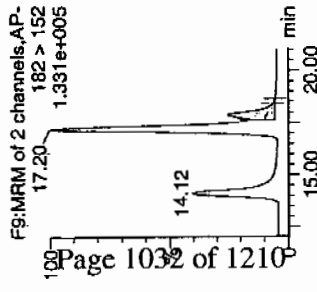
↓ TetraYL



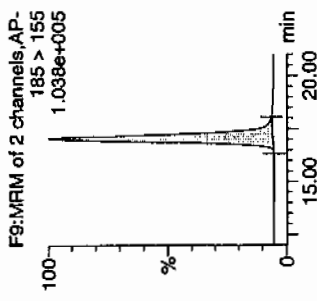
4/13/10

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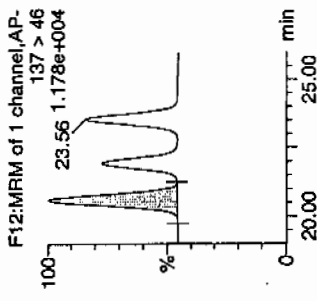
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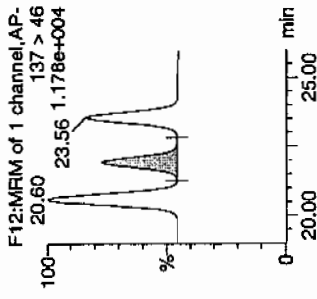
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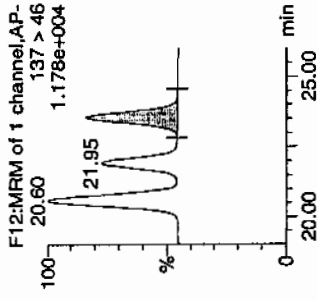
2-Nitrotoluene



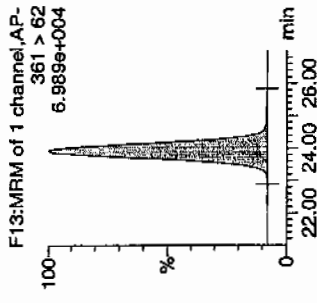
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abundance	Response	Height	Mod Time	Acq Date	Acq Time	SN
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1202047526	RDX	176 > 102	7.52	20307.367	6567.721	20307.367	1545.998	bb	540.1430	108.0	8.0	2039.5
1202047526	135-Trinitrobenzene	213 > 183	10.05	22071.998	6567.721	22071.998	1680.339	bb	388.6983	77.7	-22.3	2262.5
1202047526	13-Dinitrobenzene-d4	172 > 142	11.87	6567.721		6567.721	667.965	bb	558.4451	111.7	11.7	917.3
1202047526	13-Dinitrobenzene	168 > 138	11.97	8774.015	6567.721	8774.015	667.965	bb	499.5739	99.9	-0.1	660.7
1202047526	Tetryl	241 > 181	12.45	1735.312	6567.721	1735.312	132.109	bb	101.9146	20.4	-79.6	185.3
1202047526	Nitrobenzene	123 > 46	13.37	4224.416	6567.721	4224.416	321.604	bb	512.6832	102.5	2.5	392.1
1202047526	4-Amino-26-dinitrotoluene	197 > 167	15.32	13096.934	40283.695	13096.934	162.559	MM	481.2812	96.3	-3.7	596.0
1202047526	2-Amino-46-dinitrotoluene	197 > 180	16.16	20542.570	40283.695	20542.570	254.974	bb	497.8037	99.6	-0.4	1552.6
1202047526	246-Trinitrotoluene	227 > 210	15.10	16131.211	40283.695	16131.211	200.220	bb	460.2413	92.0	-8.0	429.3
1202047526	34-dinitrotoluene	182 > 152	14.12	20692.857	40283.695	20692.857	256.839	bb	249.0856	99.6	-0.4	733.2
1202047526	26-dinitrotoluene	182 > 152	17.20	46804.898	40283.695	46804.898	580.941	MM	490.8511	98.2	-1.8	1946.9
1202047526	24-dinitrotoluene	182 > 152	17.86	10918.037	40283.695	10918.037	135.514	MM	519.2043	103.8	3.8	407.7
1202047526	26-dinitrotoluene-d3	185 > 155	17.05	40283.695		40283.695	40283.695	bb	575.7581	115.2	15.2	3610.0
1202047526	2-Nitrotoluene	137 > 46	20.60	3067.486	40283.695	3067.486	38.074	bb	439.7082	87.9	-12.1	246.5
1202047526	4-Nitrotoluene	137 > 46	21.95	1660.094	40283.695	1660.094	20.605	bb	496.7537	99.4	-0.6	142.0
1202047526	3-Nitrotoluene	137 > 46	23.56	2085.762	40283.695	2085.762	25.888	bb	444.0397	88.8	-11.2	172.1
1202047526	PETN	361 > 62	23.94	34906.930	40283.695	34906.930	433.264	bb	468.9668	93.8	-6.2	8658.8

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 955062

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047526

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100132.wiff

Date Analyzed: 12-MAR-10 01:48

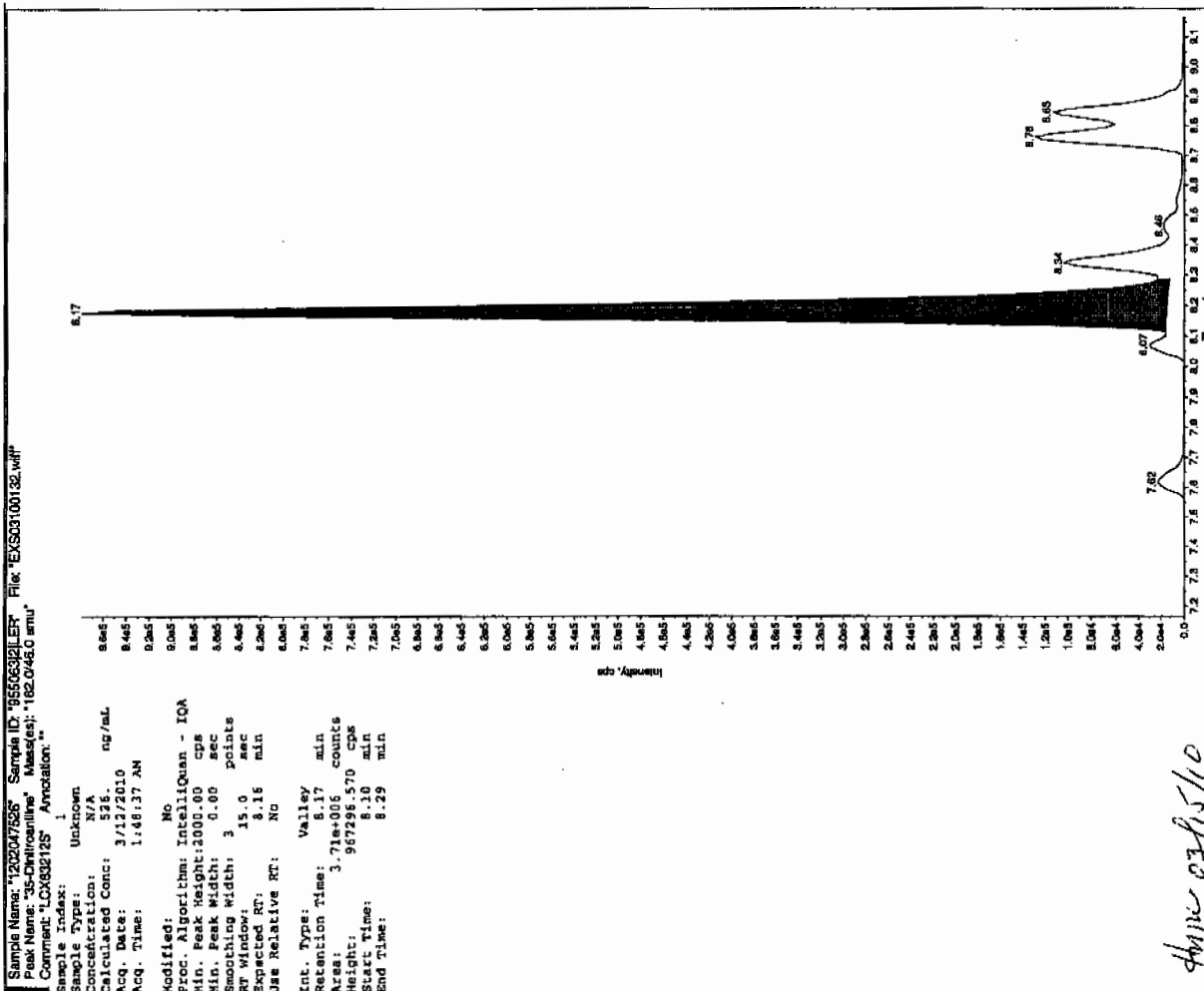
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4960	
59229-75-3	2,6-Diamino-4-nitrotoluene	5310	
618-87-1	3,5-Dinitroaniline	5260	
6629-29-4	2,4-Diamino-6-nitrotoluene	5010	
78-30-8	tris(o-cresyl) phosphate	4740	

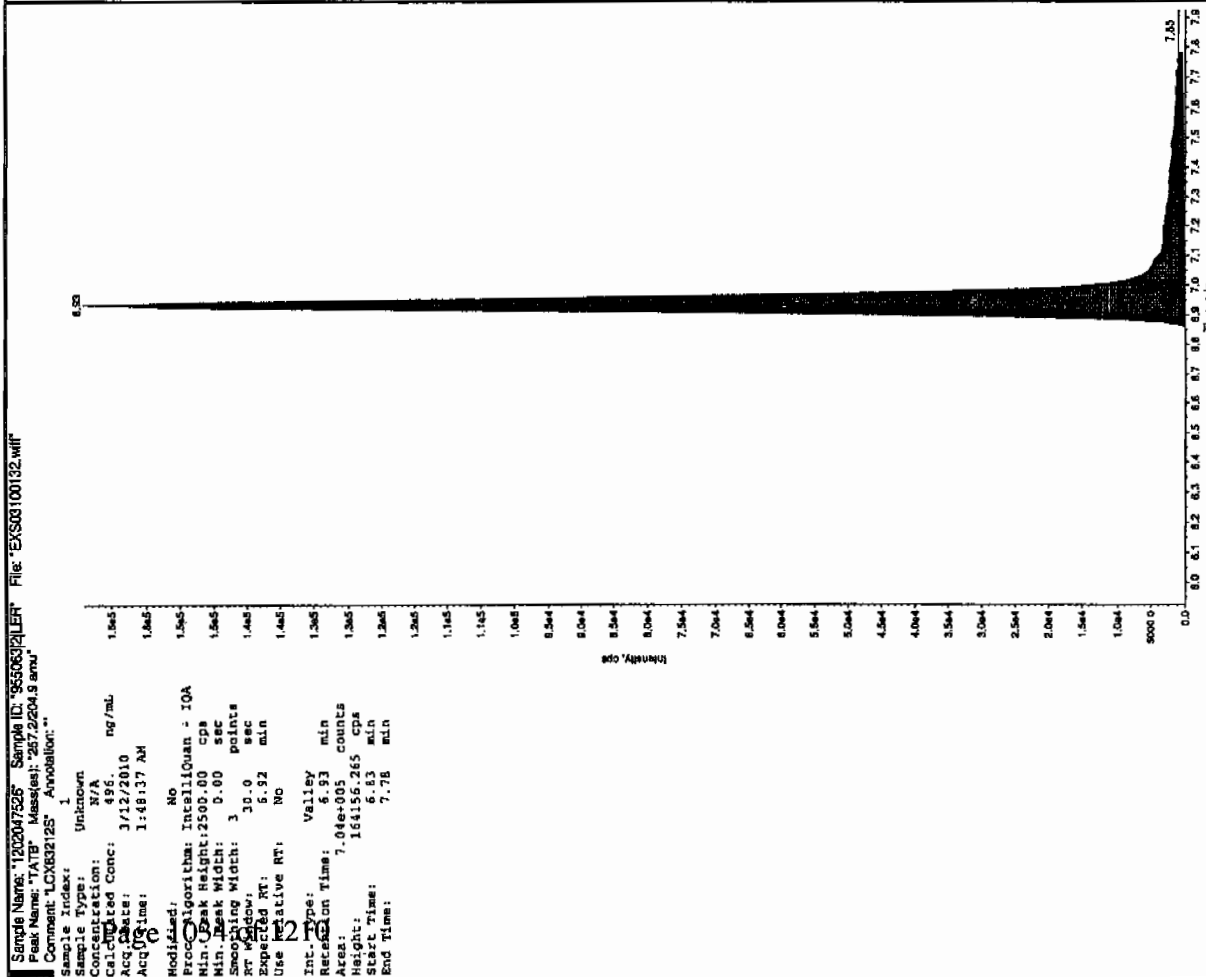
*Concentration =

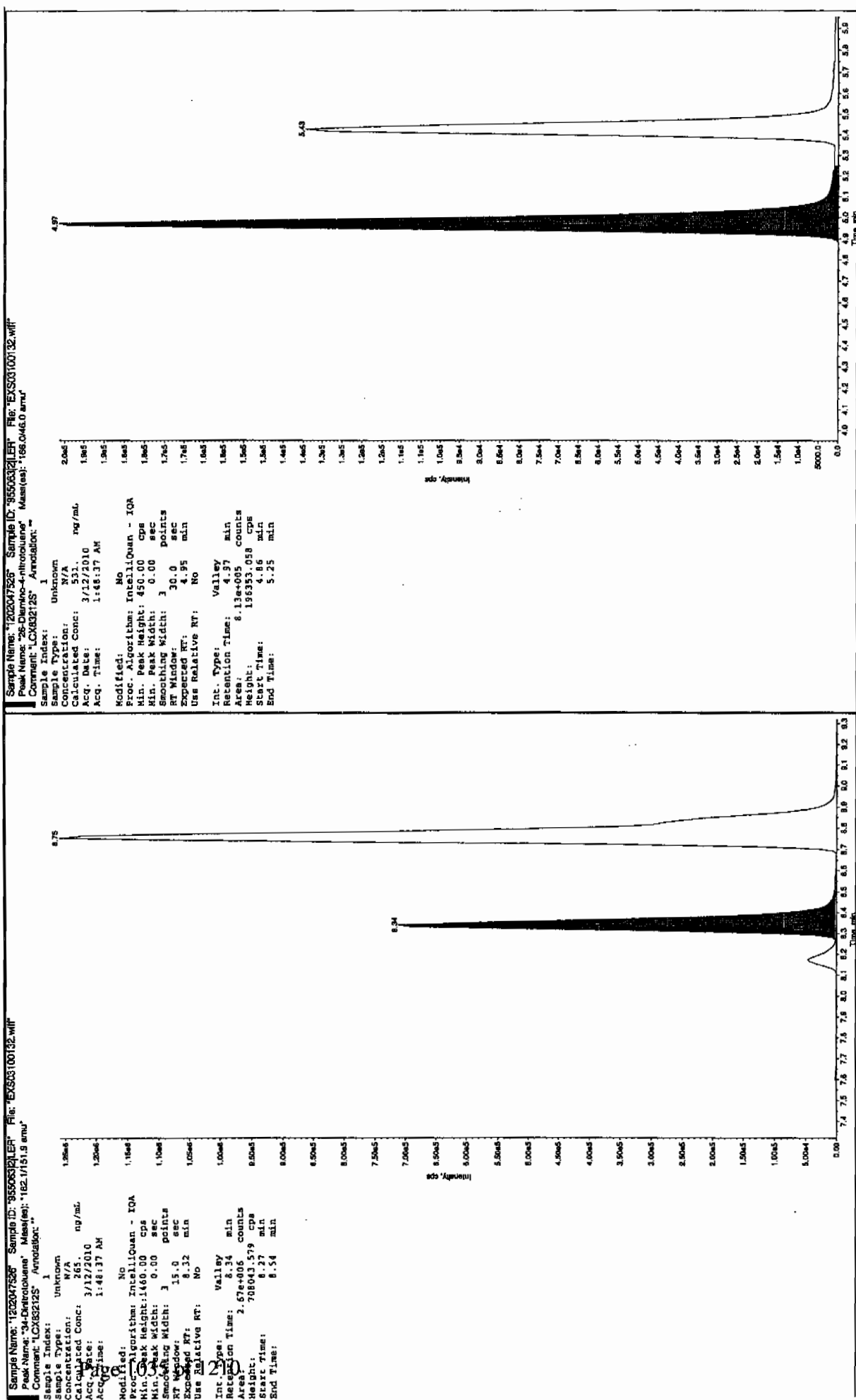
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

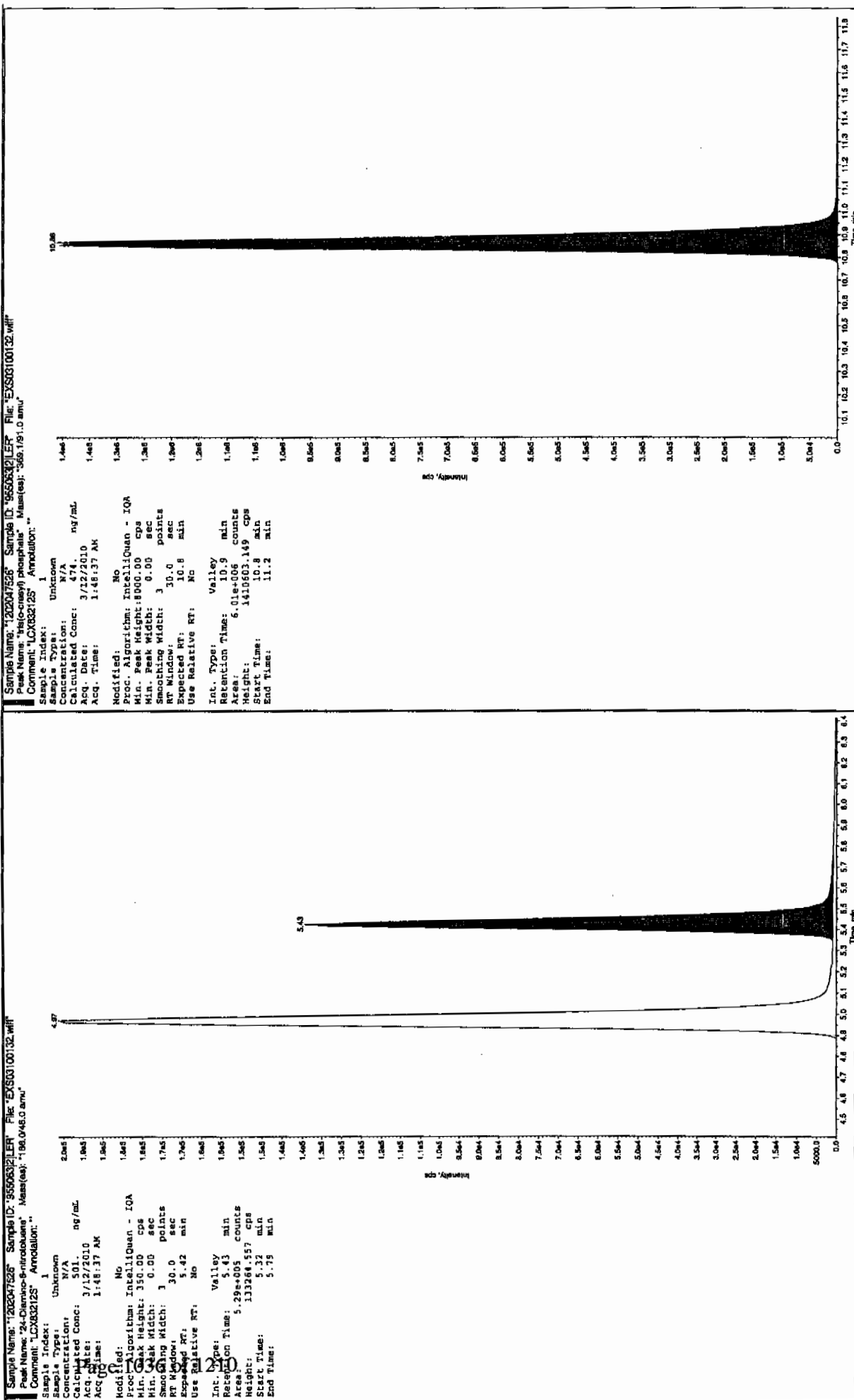
Ken 3/14/10



4/11/10 03/15/10







1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346(247332002MS)

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047527

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412016a

Date Analyzed: 12-APR-10 23:02

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4510	H
121-14-2	2,4-Dinitrotoluene	5400	H
121-82-4	RDX	4300	H
19406-51-0	4-Amino-2,6-dinitrotoluene	4610	H
2691-41-0	HMX	3730	H
35572-78-2	2-Amino-4,6-dinitrotoluene	5180	H
479-45-8	Tetryl	2380	H
606-20-2	2,6-Dinitrotoluene	4990	H
78-11-5	PETN	4980	H
88-72-2	o-Nitrotoluene	4440	H
98-95-3	Nitrobenzene	4060	H
99-08-1	m-Nitrotoluene	4330	H
99-35-4	1,3,5-Trinitrobenzene	3790	H
99-65-0	m-Dinitrobenzene	4680	H
99-99-0	p-Nitrotoluene	4860	H

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 31 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412016a

Date: 12-Apr-2010

Time: 23:02:57

ID: 1202047527

Val: 2:1,D

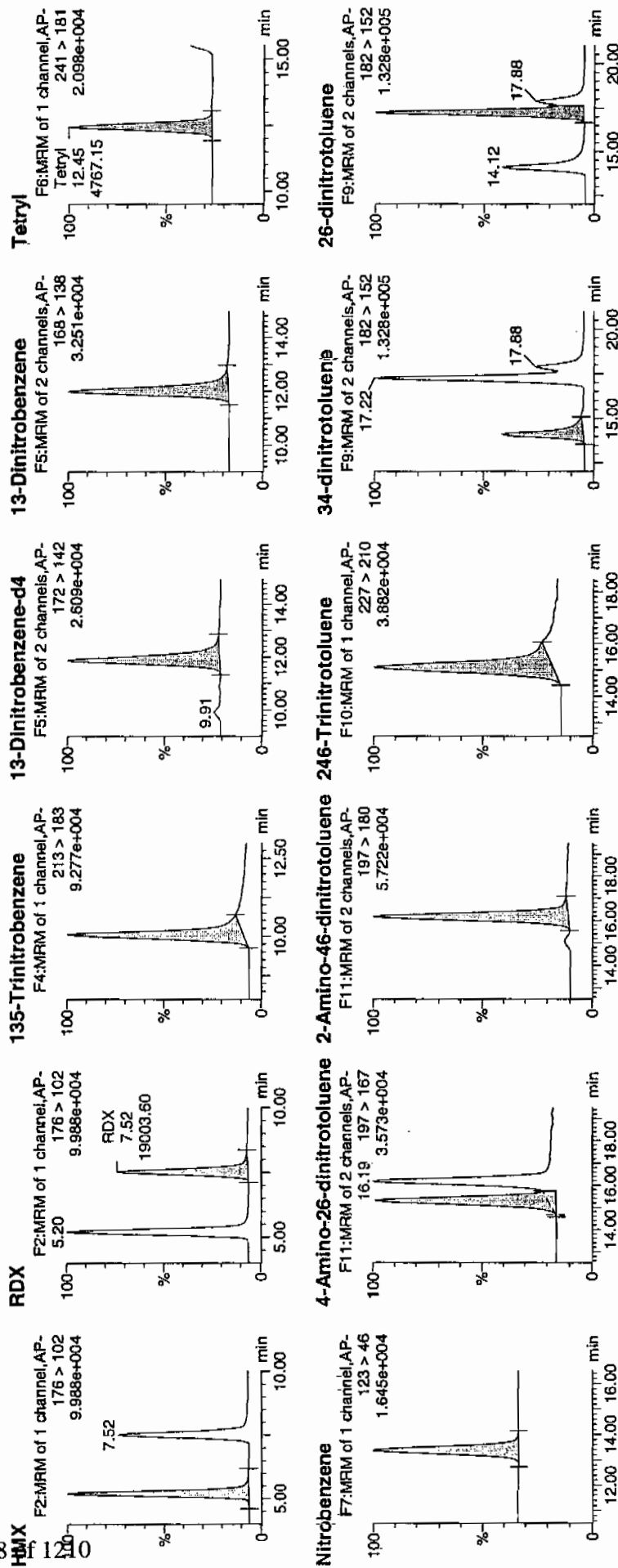
PR 28 41

XL: 57704120174

11/15/10

247332020205 / 2 /

11/15/10



Handwritten signature and date 4/14/10

Figure 1 displays five chromatograms showing the separation of 24-dinitrotoluene, 26-dinitrotoluene-d3, 2-Nitrotoluene, 4-Nitrotoluene, and 3-Nitrotoluene. The x-axis represents time in minutes (min), and the y-axis represents relative intensity in percent (%).

- 24-dinitrotoluene:** F9:M/RM of 2 channels, AP-182 > 152. Peaks are labeled at 17.22 min (1039) and 14.12 min (1210).
- 26-dinitrotoluene-d3:** F9:M/RM of 2 channels, AP-185 > 155. A peak is labeled at 9.982e+004 min.
- 2-Nitrotoluene:** F12:M/RM of 1 channel, AP-137 > 46. Peaks are labeled at 23.56 min (1039) and 1.181e+004 min (1210).
- 4-Nitrotoluene:** F12:M/RM of 1 channel, AP-137 > 46. Peaks are labeled at 23.56 min (1039) and 1.181e+004 min (1210).
- 3-Nitrotoluene:** F12:M/RM of 1 channel, AP-137 > 46. Peaks are labeled at 20.61 min (1039) and 21.94 min (1210).

ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Ino/Int	Pre Rec	Dev	SN
1202047527	HMX	176 > 102	5.20	24420.908	7713.556	24420.908	1582.986	bb			373.4634	74.7	-25.3	4855.1
1202047527	RDX	176 > 102	7.52	19003.598	7713.556	19003.598	1231.831	bb			430.3790	86.1	-13.9	3483.8
1202047527	135-Trinitrobenzene	213 > 183	10.05	25294.510	7713.556	25294.510	1639.614	bb			379.2787	75.9	-24.1	1453.2
1202047527	13-Dinitrobenzene-d4	172 > 142	11.87	7713.556		7713.556	7713.556	bb			655.8740	131.2	31.2	911.1
1202047527	13-Dinitrobenzene	168 > 138	11.97	9659.718	7713.556	9659.718	626.152	bb			468.3018	93.7	-6.3	753.7
1202047527	Tetryl	241 > 181	12.45	4767.151	7713.556	4767.151	309.011	bb			238.3843	47.7	-52.3	422.7
1202047527	Nitrobenzene	123 > 46	13.37	3925.003	7713.556	3925.003	254.422	bb			405.5855	81.1	-18.9	383.3
1202047527	4-Amino-26-dinitrotoluene	197 > 167	15.32	12249.572	39347.703	12249.572	155.658	MM	13-Apr-10	11:02:21	460.8505	92.2	-7.8	390.8
1202047527	2-Amirio-46-dinitrotoluene	197 > 180	16.16	20868.547	39347.703	20868.547	265.181	bb			517.7326	103.5	3.5	330.9
1202047527	246-Trinitrotoluene	227 > 210	15.10	15441.581	39347.703	15441.581	196.220	bb			451.0454	90.2	-9.8	93.7
1202047527	34-dinitrotoluene	182 > 152	14.12	20910.439	39347.703	20910.439	265.714	bb			257.6922	103.1	3.1	317.7
1202047527	26-dinitrotoluene	182 > 152	17.22	46429.914	39347.703	46429.914	589.995	MM	13-Apr-10	11:07:34	498.5012	99.7	-0.3	820.9
1202047527	24-dinitrotoluene	182 > 152	17.88	11092.330	39347.703	11092.330	140.953	MM	13-Apr-10	11:10:29	540.0406	108.0	8.0	175.9
1202047527	26-dinitrotoluene-d3	185 > 155	17.05	39347.703		39347.703	39347.703	bb			562.3803	112.5	12.5	3616.9
1202047527	2-Nitrotoluene	137 > 46	20.61	3026.510	39347.703	3026.510	38.459	bb			444.1544	88.8	-11.2	711.2
1202047527	4-Nitrotoluene	137 > 46	21.94	1585.241	39347.703	1585.241	20.144	bb			485.6391	97.1	-2.9	406.8
1202047527	3-Nitrotoluene	137 > 46	23.56	1986.214	39347.703	1986.214	25.239	bb			432.9054	86.6	-13.4	474.2
1202047527	PETN	361 > 62	23.96	35904.529	39347.703	35904.523	456.247	bb			497.9213	99.6	-0.4	6848.4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346(247332002MS)

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047527

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100134.wiff

Date Analyzed: 12-MAR-10 02:20

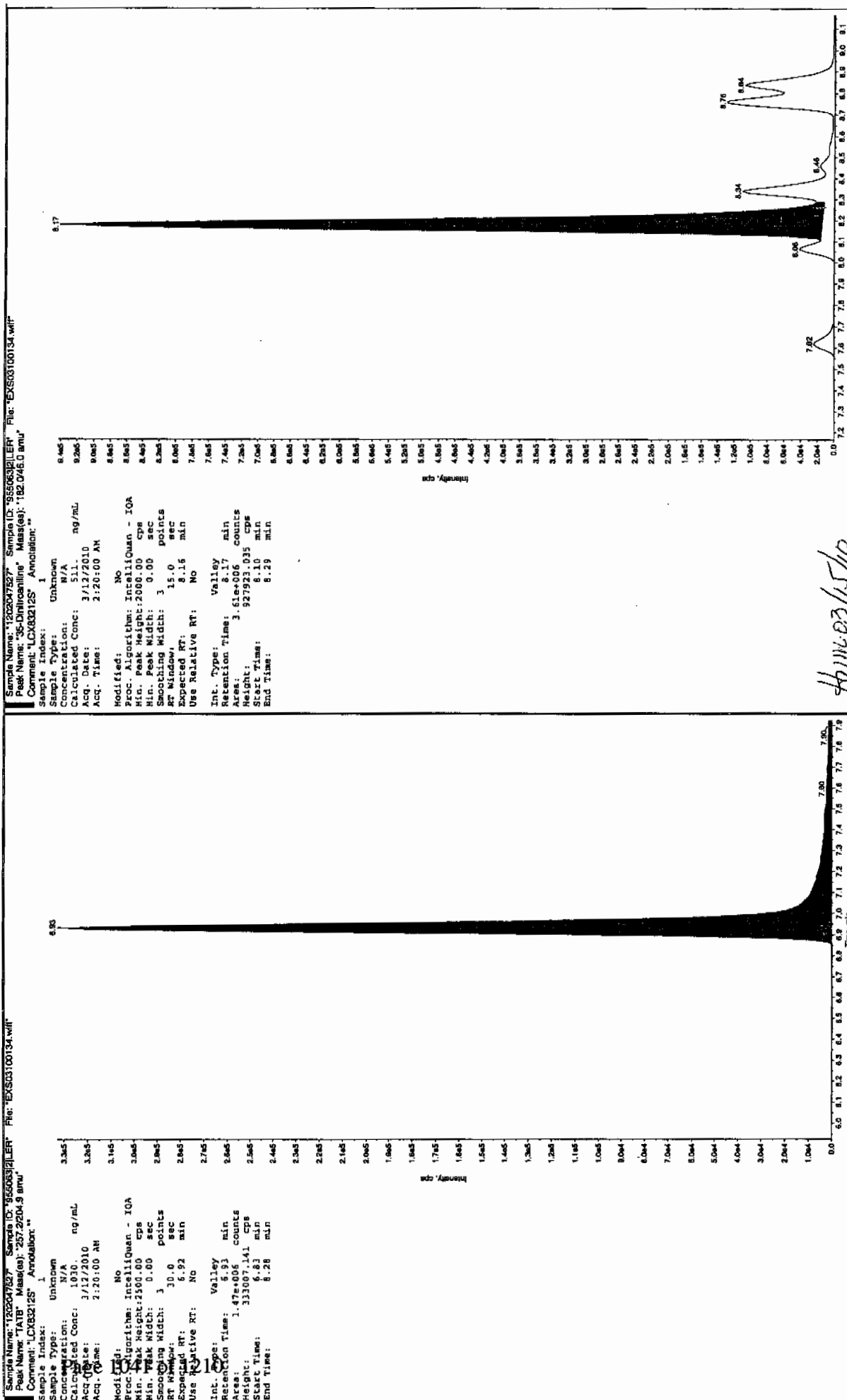
Units: ug/kg

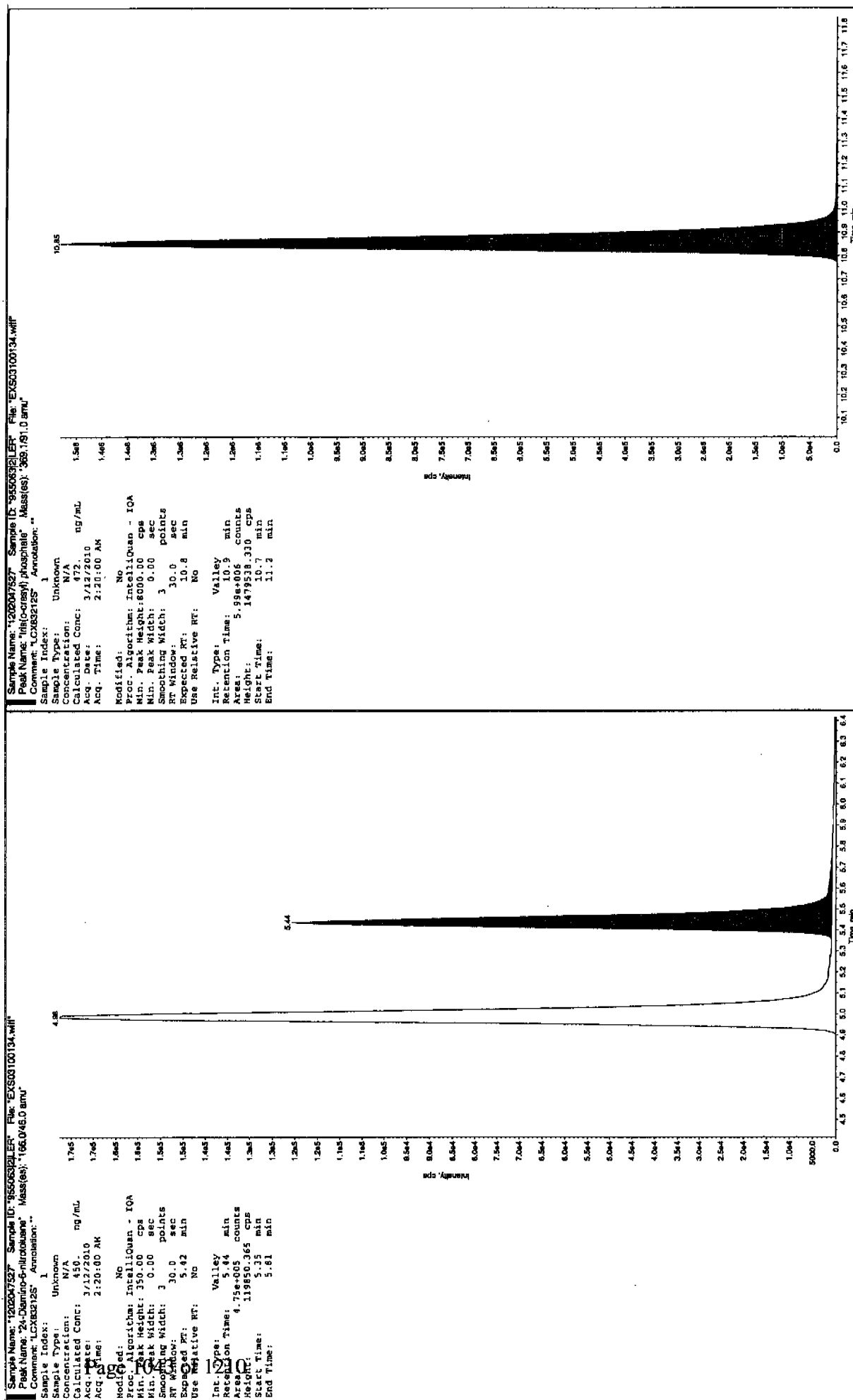
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	10300	
59229-75-3	2,6-Diamino-4-nitrotoluene	4760	
618-87-1	3,5-Dinitroaniline	5110	
6629-29-4	2,4-Diamino-6-nitrotoluene	4500	
78-30-8	tris(o-cresyl) phosphate	4720	

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

for 3/14/10





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346(247332002MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047528

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412017a

Date Analyzed: 12-APR-10 23:32

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4640	H
121-14-2	2,4-Dinitrotoluene	5300	H
121-82-4	RDX	5520	H
19406-51-0	4-Amino-2,6-dinitrotoluene	4760	H
2691-41-0	HMX	4480	H
35572-78-2	2-Amino-4,6-dinitrotoluene	4790	H
479-45-8	Tetryl	3110	H
606-20-2	2,6-Dinitrotoluene	4840	H
78-11-5	PETN	4150	H
88-72-2	o-Nitrotoluene	3850	H
98-95-3	Nitrobenzene	4990	H
99-08-1	m-Nitrotoluene	4060	H
99-35-4	1,3,5-Trinitrobenzene	4770	H
99-65-0	m-Dinitrobenzene	4650	H
99-99-0	p-Nitrotoluene	4070	H

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantity Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412017a

Date: 12-Apr-2010

Time: 23:32:25

ID: 1202047528

Vol: 2:1,E

128 #2

QC: EXP04120169

4/13/10

247332002 US / 2

RMX

F2:MRM of 1 channel,AP-

176 > 102

1.027e+005

7.52

21002.98

RD

F2:MRM of 1 channel,AP-

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1.027e+005

7.52

21002.98

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1.027e+005

7.52

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1.027e+005

7.52

21002.98

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8346(247332002MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1905

Matrix: SOIL

GEL Sample ID: 1202047528

Sample Amount 2

Moisture: 10.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100135.wiff

Date Analyzed: 12-MAR-10 02:35

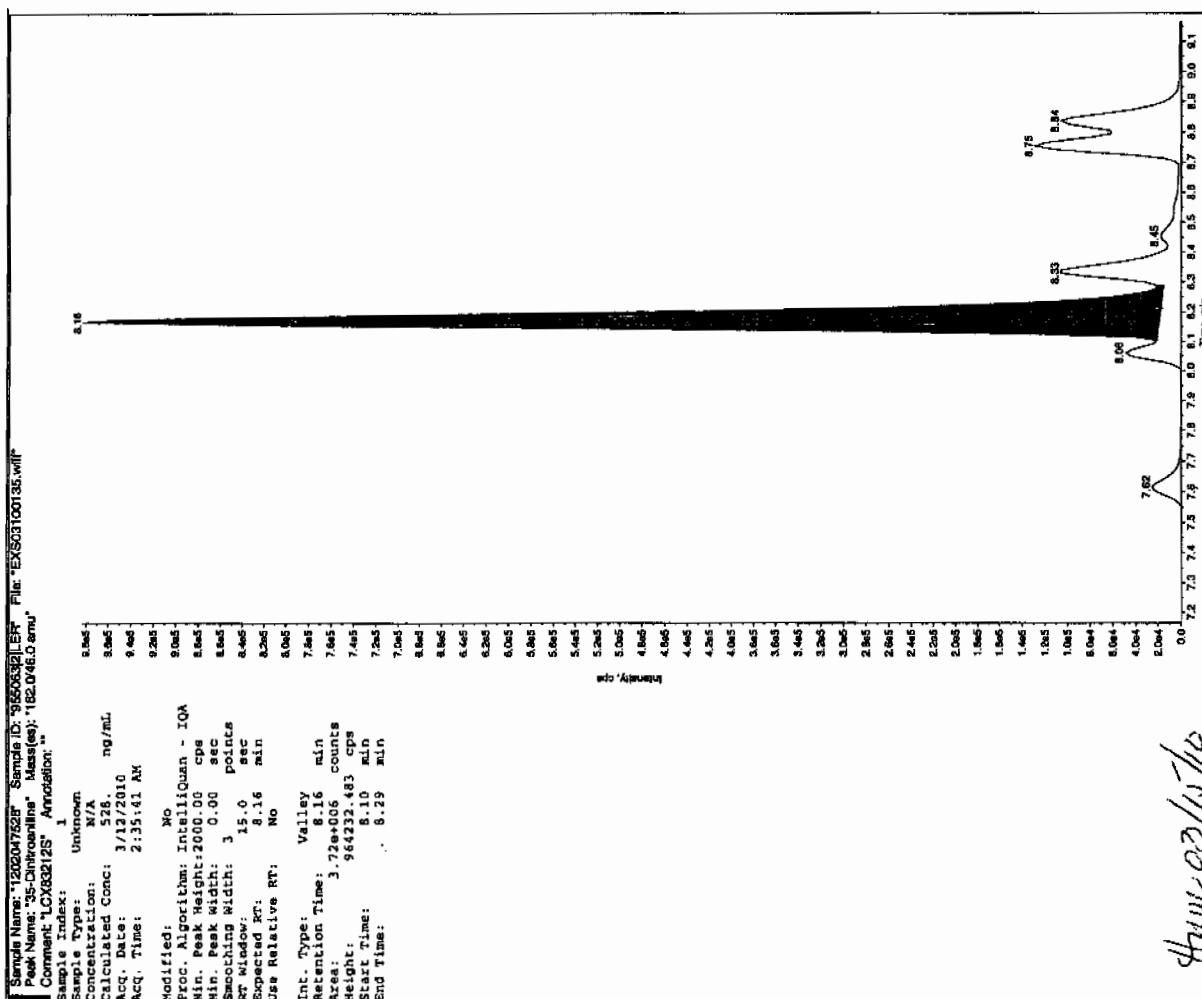
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	8850	
59229-75-3	2,6-Diamino-4-nitrotoluene	5000	
618-87-1	3,5-Dinitroaniline	5280	
6629-29-4	2,4-Diamino-6-nitrotoluene	4840	
78-30-8	tris(o-cresyl) phosphate	4830	

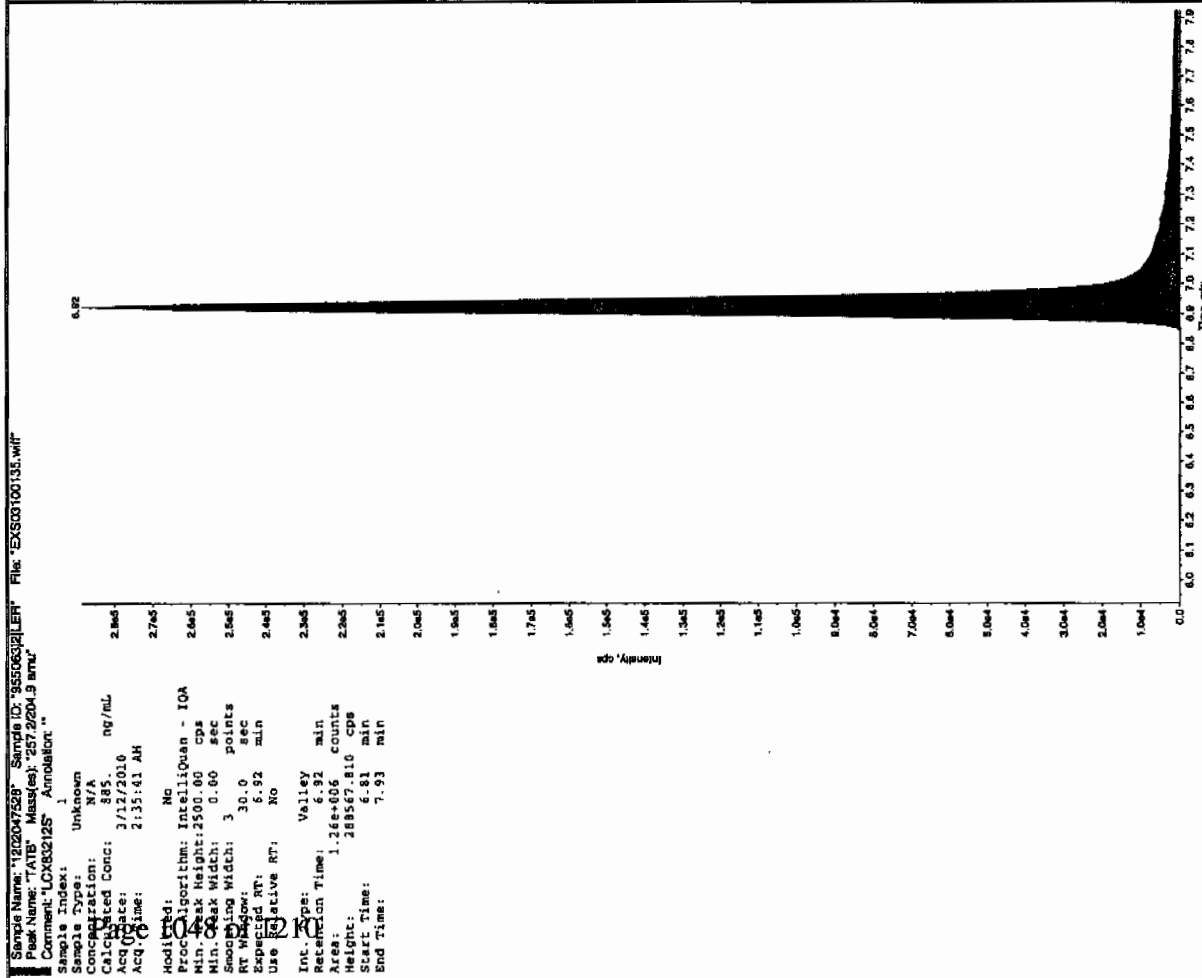
*Concentration =

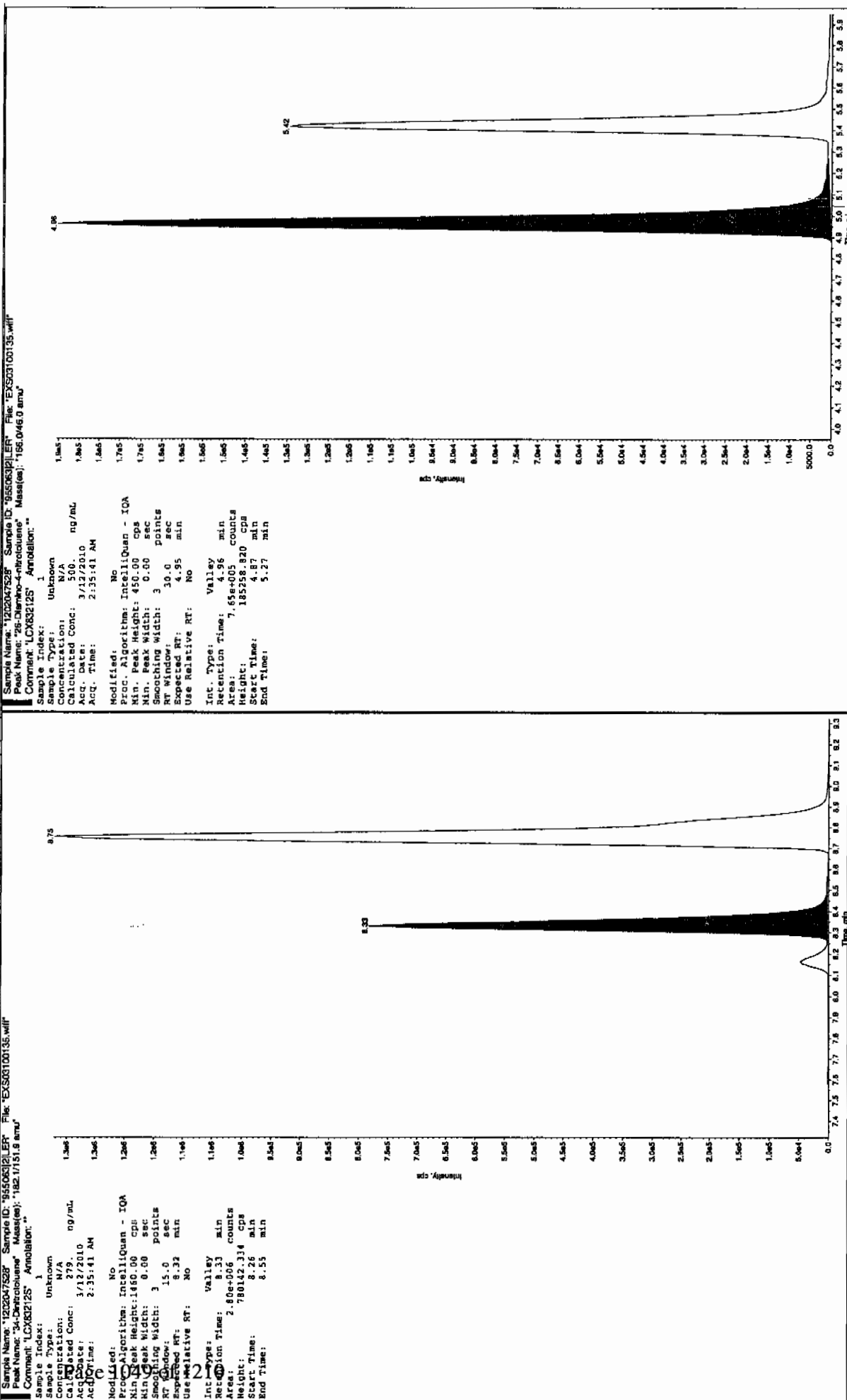
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

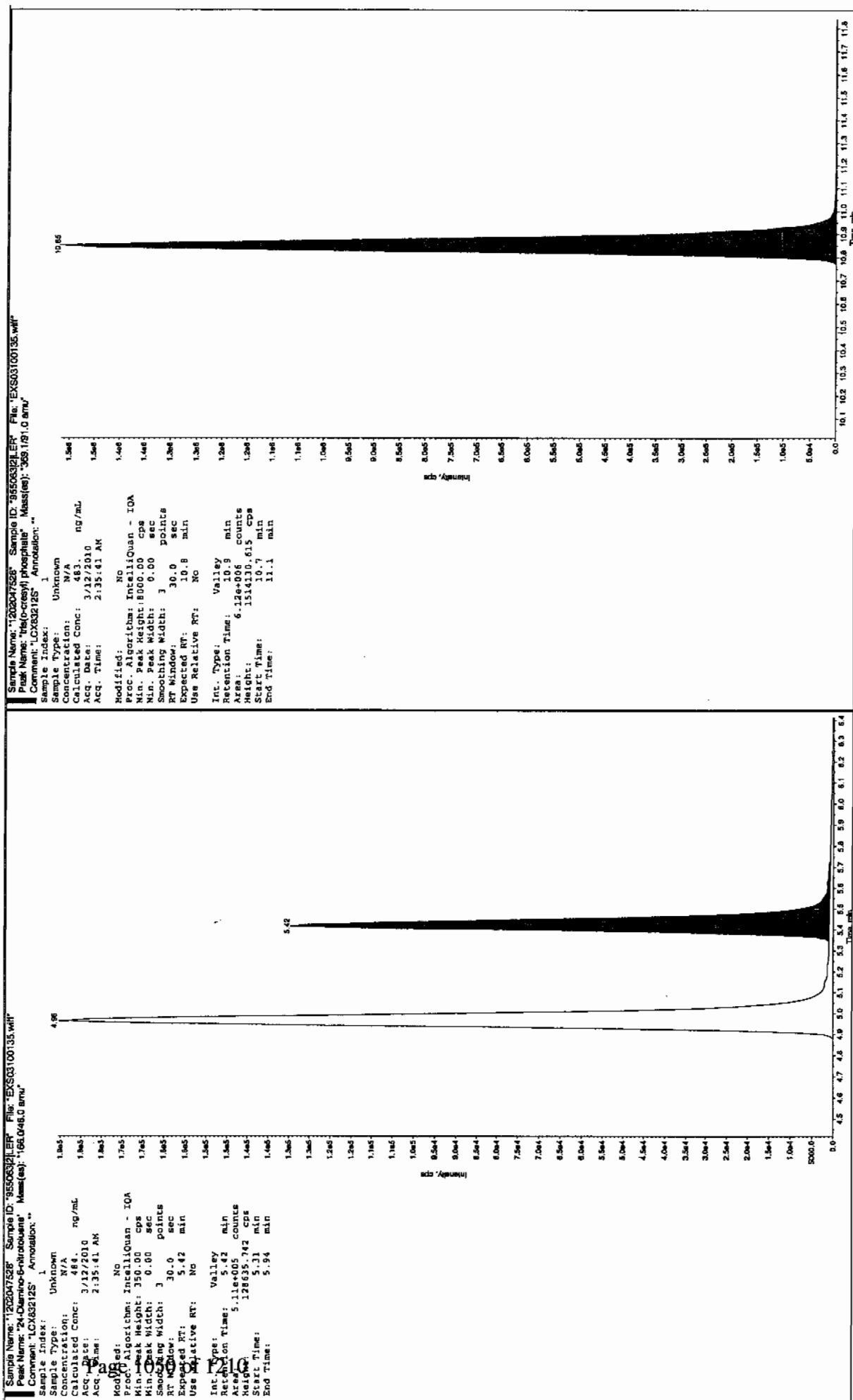
Ken 3/14/10



4/11/03/15/10







MISCELLANEOUS DATA

Prep Logbook Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 955062 Verified by: _____
 Analyst: Sirena White
 Method: SW846 8330 PREP Lab SOP: GL-OA-E-033 REV# 17
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202047525 MB	24-FEB-2010 15:43:00	2	10	5
1202047526 LCS	24-FEB-2010 15:43:00	2	10	5
247332002	24-FEB-2010 15:43:00	2	10	5
1202047527 MS (247332002)	24-FEB-2010 15:43:00	2	10	5
1202047528 MSD (247332002)	24-FEB-2010 15:43:00	2	10	5
247332003	24-FEB-2010 15:43:00	2	10	5
247332004	24-FEB-2010 15:43:00	2	10	5
247332005	24-FEB-2010 15:43:00	2	10	5
247332006	24-FEB-2010 15:43:00	2	10	5
247332007	24-FEB-2010 15:43:00	2	10	5
247332008	24-FEB-2010 15:43:00	2	10	5
247343001	24-FEB-2010 15:43:00	2	10	5
247343002	24-FEB-2010 15:43:00	2	10	5
247343003	24-FEB-2010 15:43:00	2	10	5
247343004	24-FEB-2010 15:43:00	2	10	5
247343005	24-FEB-2010 15:43:00	2	10	5
247343006	24-FEB-2010 15:43:00	2	10	5
247343007	24-FEB-2010 15:43:00	2	10	5
247343008	24-FEB-2010 15:43:00	2	10	5
247343009	24-FEB-2010 15:43:00	2	10	5
247343010	24-FEB-2010 15:43:00	2	10	5
247343011	24-FEB-2010 15:43:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202047526	8321 Explosives LCS	DCX100208-03	.1	mL	
LCS	1202047526	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MS	1202047527	8321 Explosives LCS	DCX100208-03	.1	mL	
MS	1202047527	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MSD	1202047528	8321 Explosives LCS	DCX100208-03	.1	mL	
MSD	1202047528	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	DXP100223-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 04/12/10
 Extr. Injection Volume: 50uL
 Sequence Number: 041210expA
 Initial Calibration Date: 04/12/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100324-02.3
 Mobile Phase Lot#: 1296548, 1289686
 Standard-Samp Reagent Lot#: 1299881, 1284736
 Reviewed BY: *hnm*
 Date: *04/14/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100412-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0412001a	XIBLK01	MAP	4/12/10 15:40			1		USE	B
EXP0412002a	XIBLK01	MAP	4/12/10 16:10			1		USE	B
EXP0412003a	WXXICAL-01	MAP	4/12/10 16:39			1		USE	I
EXP0412004a	WXXICAL-02	MAP	4/12/10 17:09			1		USE	I
EXP0412005a	WXXICAL-03	MAP	4/12/10 17:38			1		USE	I
EXP0412006a	WXXICAL-04	MAP	4/12/10 18:08			1		USE	I
EXP0412007a	WXXICAL-05	MAP	4/12/10 18:37			1		USE	I
EXP0412008a	WXXICAL-06	MAP	4/12/10 19:07			1		USE	I
EXP0412009a	XIBLK02	MAP	4/12/10 19:36			1		USE	B
EXP0412010a	WXXICV	MAP	4/12/10 20:06			1		USE	C
EXP0412011a	XIBLK03	MAP	4/12/10 20:35			1		USE	B
EXP0412012a	WXXCRI	MAP	4/12/10 21:04			1		USE	C
EXP0412013a	1202047525	MAP	4/12/10 21:34	955063	Various	2	LANL	USE	S
EXP0412014a	1202047526	MAP	4/12/10 22:04	955063	Various	2	LANL	USE	S
EXP0412015a	247332002	MAP	4/12/10 22:33	955063	10-1905	2	LANL	USE	S
EXP0412016a	1202047527	MAP	4/12/10 23:02	955063	10-1905	2	LANL	USE	S
EXP0412017a	1202047528	MAP	4/12/10 23:32	955063	10-1905	2	LANL	USE	S
EXP0412018a	247332003	MAP	4/13/10 0:01	955063	10-1905	2	LANL	USE	S
EXP0412019a	247332004	MAP	4/13/10 0:31	955063	10-1905	2	LANL	USE	S
EXP0412020a	247332005	MAP	4/13/10 1:00	955063	10-1905	2	LANL	USE	S
EXP0412021a	247332006	MAP	4/13/10 1:30	955063	10-1905	2	LANL	USE	S
EXP0412022a	247332007	MAP	4/13/10 1:59	955063	10-1905	2	LANL	USE	S
EXP0412023a	WXXCCV	MAP	4/13/10 2:29			1		USE	C
EXP0412024a	XIBLK04	MAP	4/13/10 2:58			1		USE	B
EXP0412025a	WXXCRI	MAP	4/13/10 3:28			1		USE	C
EXP0412026a	247332008	MAP	4/13/10 3:57	955063	10-1905	2	LANL	USE	S
EXP0412027a	247343001	MAP	4/13/10 4:27	955063	10-1908	2	LANL	USE	S
EXP0412028a	247343002	MAP	4/13/10 4:56	955063	10-1908	2	LANL	USE	S
EXP0412029a	247343003	MAP	4/13/10 5:26	955063	10-1908	2	LANL	USE	S

EXP0412030a	247343004	MAP	4/13/10 5:55	955063	10-1908	2	LANL	USE	S
EXP0412031a	247343005	MAP	4/13/10 6:25	955063	10-1908	2	LANL	USE	S
EXP0412032a	247343006	MAP	4/13/10 6:54	955063	10-1908	2	LANL	USE	S
EXP0412033a	247343007	MAP	4/13/10 7:24	955063	10-1908	2	LANL	USE	S
EXP0412034a	247343008	MAP	4/13/10 7:53	955063	10-1908	2	LANL	USE	S
EXP0412035a	247343009	MAP	4/13/10 8:23	955063	10-1908	2	LANL	USE	S
EXP0412036a	WXXCCV	MAP	4/13/10 8:52			1		USE	C
EXP0412037a	XIBLK05	MAP	4/13/10 9:22			1		USE	B
EXP0412038a	WXXCRI	MAP	4/13/10 9:51			1		USE	C
EXP0412039a	247343010	MAP	4/13/10 10:21	955063	10-1908	2	LANL	USE	S
EXP0412040a	247343011	MAP	4/13/10 10:50	955063	10-1908	2	LANL	USE	S
EXP0412041a	XIBLK06	MAP	4/13/10 11:20			1		USE	B
EXP0412042a	1202052398	MAP	4/13/10 11:50	957196	10-1972	2	LANL	USE	S
EXP0412043a	1202052399	MAP	4/13/10 12:19	957196	10-1972	2	LANL	USE	S
EXP0412044a	247767001	MAP	4/13/10 12:49	957196	10-1972	2	LANL	USE	S
EXP0412045a	1202052401	MAP	4/13/10 13:18	957196	10-1972	2	LANL	USE	S
EXP0412046a	1202052402	MAP	4/13/10 13:48	957196	10-1972	2	LANL	USE	S
EXP0412047a	247767002	MAP	4/13/10 14:17	957196	10-1972	2	LANL	USE	S
EXP0412048a	247767003	MAP	4/13/10 14:47	957196	10-1972	2	LANL	USE	S
EXP0412049a	WXXCCV	MAP	4/13/10 15:16			1		USE	C
EXP0412050a	XIBLK07	MAP	4/13/10 15:46			1		USE	B
EXP0412051a	WXXCRI	MAP	4/13/10 16:15			1		USE	C
EXP0412052a	247767004	MAP	4/13/10 16:45	957196	10-1972	2	LANL	USE	S
EXP0412053a	247767005	MAP	4/13/10 17:14	957196	10-1972	2	LANL	USE	S
EXP0412054a	247767006	MAP	4/13/10 17:44	957196	10-1972	2	LANL	USE	S
EXP0412055a	247767007	MAP	4/13/10 18:13	957196	10-1972	2	LANL	USE	S
EXP0412056a	247767008	MAP	4/13/10 18:43	957196	10-1972	2	LANL	USE	S
EXP0412057a	247767009	MAP	4/13/10 19:12	957196	10-1972	2	LANL	USE	S
EXP0412058a	247767010	MAP	4/13/10 19:42	957196	10-1972	2	LANL	USE	S
EXP0412059a	247767011	MAP	4/13/10 20:11	957196	10-1972	2	LANL	USE	S
EXP0412060a	WXXCCV	MAP	4/13/10 20:41			1		USE	C
EXP0412061a	XIBLK08	MAP	4/13/10 21:10			1		USE	B
EXP0412062a	WXXCRI	MAP	4/13/10 21:40			1		USE	C
EXP0412063a	1202055078	MAP	4/13/10 22:09	958282	Various	2	LANL	USE	S
EXP0412064a	1202055079	MAP	4/13/10 22:39	958282	Various	2	LANL	DUSE	S
EXP0412065a	248017003	MAP	4/13/10 23:08	958282	10-2039	2	LANL	USE	S
EXP0412066a	1202055080	MAP	4/13/10 23:38	958282	10-2039	2	LANL	DUSE	S

EXP0412067a	1202055081	MAP	4/14/10 0:07	958282	10-2039	2	LANL	USE	S
EXP0412068a	248042002	MAP	4/14/10 0:37	958282	10-2057	2	LANL	USE	S
EXP0412069a	248042008	MAP	4/14/10 1:06	958282	10-2057	2	LANL	USE	S
EXP0412070a	248042010	MAP	4/14/10 1:36	958282	10-2057	2	LANL	DUSE	S
EXP0412071a	248047003	MAP	4/14/10 2:05	958282	10-2045	2	LANL	USE	S
EXP0412072a	248047007	MAP	4/14/10 2:35	958282	10-2045	2	LANL	USE	S
EXP0412073a	WXXCCV	MAP	4/14/10 3:04			1		USE	C
EXP0412074a	XIBLK09	MAP	4/14/10 3:34			1		USE	B
EXP0412075a	WXXCRI	MAP	4/14/10 4:03			1		USE	C

GEL ORGANIC RUN LOG INSTRUMENT ID: LCMSMS4

Date: 03/10/10
 Extr. Injection Volume: 10uL
 Sequence Number: 031010exs
 Initial Calibration Date: 031010
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *[Signature]*
 Date: 03/10/10
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100310-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03100001.wiff	XIBLK01	LER	3/10/2010 15:31			1		USE	B
EXS03100002.wiff	XIBLK01	LER	3/10/2010 15:47			1		USE	B
EXS03100003.wiff	WXXICAL-19	LER	3/10/2010 16:02			1		USE	I
EXS03100004.wiff	WXXICAL-20	LER	3/10/2010 16:18			1		USE	I
EXS03100005.wiff	WXXICAL-21	LER	3/10/2010 16:34			1		USE	I
EXS03100006.wiff	WXXICAL-22	LER	3/10/2010 16:50			1		USE	I
EXS03100007.wiff	WXXICAL-23	LER	3/10/2010 17:05			1		USE	I
EXS03100008.wiff	WXXICAL-24	LER	3/10/2010 17:21			1		DUSE	I
EXS03100009.wiff	WXXICAL-25	LER	3/10/2010 17:37			1		USE	I
EXS03100010.wiff	XIBLK02	LER	3/10/2010 17:52			1		USE	B
EXS03100011.wiff	WXXICV	LER	3/10/2010 18:08			1		USE	C
EXS03100012.wiff	XIBLK03	LER	3/10/2010 18:24			1		USE	B
EXS03100013.wiff	WXXCRI	LER	3/10/2010 18:39			1		USE	C
EXS03100014.wiff	1202049901	LER	3/10/2010 18:55	956045	VARIOUS	2	LANL	USE	S
EXS03100015.wiff	1202049902	LER	3/10/2010 19:11	956045	VARIOUS	2	LANL	USE	S
EXS03100016.wiff	247421002	LER	3/10/2010 19:26	956045	10-1920	2	LANL	USE	S
EXS03100017.wiff	1202049903	LER	3/10/2010 19:42	956045	10-1920	2	LANL	USE	S
EXS03100018.wiff	1202049904	LER	3/10/2010 19:58	956045	10-1920	2	LANL	USE	S
EXS03100019.wiff	247421003	LER	3/10/2010 20:14	956045	10-1920	2	LANL	USE	S
EXS03100020.wiff	247421004	LER	3/10/2010 20:29	956045	10-1920	2	LANL	USE	S
EXS03100021.wiff	247421005	LER	3/10/2010 20:45	956045	10-1920	2	LANL	USE	S
EXS03100022.wiff	247421006	LER	3/10/2010 21:01	956045	10-1920	2	LANL	USE	S
EXS03100023.wiff	247421007	LER	3/10/2010 21:16	956045	10-1920	2	LANL	USE	S
EXS03100024.wiff	WXXCCV	LER	3/10/2010 21:32			1		USE	C
EXS03100025.wiff	XIBLK04	LER	3/10/2010 21:48			1		USE	B
EXS03100026.wiff	WXXCRI	LER	3/10/2010 22:04			1		USE	C
EXS03100027.wiff	247450002	LER	3/10/2010 22:19	956045	10-1937	2	LANL	USE	S
EXS03100028.wiff	247450003	LER	3/10/2010 22:35	956045	10-1937	2	LANL	USE	S
EXS03100029.wiff	247450004	LER	3/10/2010 22:51	956045	10-1937	2	LANL	USE	S
EXS03100030.wiff	247450005	LER	3/10/2010 23:06	956045	10-1937	2	LANL	USE	S

EXS03100031.wiff	247450006	LER	3/10/2010 23:22	956045	10-1937	2	LANL	USE	S
EXS03100032.wiff	247450007	LER	3/10/2010 23:38	956045	10-1937	2	LANL	USE	S
EXS03100033.wiff	247562002	LER	3/10/2010 23:53	956045	10-1950	2	LANL	USE	S
EXS03100034.wiff	247562003	LER	3/11/2010 0:09	956045	10-1950	2	LANL	USE	S
EXS03100035.wiff	247562004	LER	3/11/2010 0:25	956045	10-1950	2	LANL	USE	S
EXS03100036.wiff	247562005	LER	3/11/2010 0:41	956045	10-1950	2	LANL	USE	S
EXS03100037.wiff	WXXCCV	LER	3/11/2010 0:56			1		USE	C
EXS03100038.wiff	XIBLK05	LER	3/11/2010 1:12			1		USE	B
EXS03100039.wiff	WXXCRI	LER	3/11/2010 1:28			1		USE	C
EXS03100040.wiff	247562006	LER	3/11/2010 1:43	956045	10-1950	2	LANL	USE	S
EXS03100041.wiff	247562007	LER	3/11/2010 1:59	956045	10-1950	2	LANL	USE	S
EXS03100042.wiff	247562008	LER	3/11/2010 2:15	956045	10-1950	2	LANL	USE	S
EXS03100043.wiff	247562009	LER	3/11/2010 2:31	956045	10-1950	2	LANL	USE	S
EXS03100044.wiff	WXXCCV	LER	3/11/2010 2:46			1		USE	C
EXS03100045.wiff	XIBLK06	LER	3/11/2010 3:02			1		USE	B
EXS03100046.wiff	WXXCRI	LER	3/11/2010 3:18			1		USE	C
EXS03100047.wiff	1202056029	LER	3/11/2010 3:33	958682	VARIOUS	2	LANL	USE	S
EXS03100048.wiff	1202056030	LER	3/11/2010 3:49	958682	VARIOUS	2	LANL	USE	S
EXS03100049.wiff	1202056034	LER	3/11/2010 4:05	958682	VARIOUS	2	LANL	USE	S
EXS03100050.wiff	248152002	LER	3/11/2010 4:21	958682	10-2101	2	LANL	USE	S
EXS03100051.wiff	248152004	LER	3/11/2010 4:36	958682	10-2101	2	LANL	USE	S
EXS03100052.wiff	248168006	LER	3/11/2010 4:52	958682	10-2107	2	LANL	USE	S
EXS03100053.wiff	1202056031	LER	3/11/2010 5:08	958682	10-2107	2	LANL	USE	S
EXS03100054.wiff	1202056032	LER	3/11/2010 5:23	958682	10-2107	2	LANL	USE	S
EXS03100055.wiff	WXXCCV	LER	3/11/2010 5:39			1		USE	C
EXS03100056.wiff	XIBLK07	LER	3/11/2010 5:55			1		USE	B
EXS03100057.wiff	WXXCRI	LER	3/11/2010 6:10			1		USE	C
EXS03100058.wiff	1202041884	LER	3/11/2010 6:26	952673	VARIOUS	2	LANL	USE	S
EXS03100059.wiff	1202041885	LER	3/11/2010 6:42	952673	VARIOUS	2	LANL	USE	S
EXS03100060.wiff	1202041891	LER	3/11/2010 6:58	952673	VARIOUS	2	LANL	USE	S
EXS03100061.wiff	246859005	LER	3/11/2010 7:13	952673	10-1779	2	LANL	USE	S
EXS03100062.wiff	246879005	LER	3/11/2010 7:29	952673	10-1776	2	LANL	USE	S
EXS03100063.wiff	246879012	LER	3/11/2010 7:45	952673	10-1776	2	LANL	USE	S
EXS03100064.wiff	246888006	LER	3/11/2010 8:00	952673	10-1773	2	LANL	USE	S
EXS03100065.wiff	246888010	LER	3/11/2010 8:16	952673	10-1773	2	LANL	USE	S
EXS03100066.wiff	WXXCCV	LER	3/11/2010 8:32			1		USE	C
EXS03100067.wiff	XIBLK08	LER	3/11/2010 8:48			1		USE	B

EXS03100068.wiff	WXXCRI	LER	3/11/2010 9:03	953344	VARIOUS	1	LANL	USE	C
EXS03100069.wiff	1202043885	LER	3/11/2010 9:19	953344	VARIOUS	2	LANL	USE	S
EXS03100070.wiff	1202043886	LER	3/11/2010 9:35	953344	10-1806	2	LANL	USE	S
EXS03100071.wiff	246965005	LER	3/11/2010 9:50	953344	10-1806	2	LANL	USE	S
EXS03100072.wiff	246965011	LER	3/11/2010 10:06	953344	10-1806	2	LANL	USE	S
EXS03100073.wiff	1202043887	LER	3/11/2010 10:22	953344	10-1806	2	LANL	USE	S
EXS03100074.wiff	1202043888	LER	3/11/2010 10:37	953344	10-1806	2	LANL	USE	S
EXS03100075.wiff	247035005	LER	3/11/2010 10:53	953344	10-1825	2	LANL	USE	S
EXS03100076.wiff	247035011	LER	3/11/2010 11:09	953344	10-1825	2	LANL	USE	S
EXS03100077.wiff	247041006	LER	3/11/2010 11:25	953344	10-1816	2	LANL	USE	S
EXS03100078.wiff	247041011	LER	3/11/2010 11:40	953344	10-1816	2	LANL	USE	S
EXS03100079.wiff	WXXCCV	LER	3/11/2010 11:56			1		USE	C
EXS03100080.wiff	XIBLK09	LER	3/11/2010 12:12			1		USE	B
EXS03100081.wiff	WXXCRI	LER	3/11/2010 12:27			1		USE	C
EXS03100082.wiff	1202045748	LER	3/11/2010 12:43	954328	10-1864	2	LANL	USE	S
EXS03100083.wiff	1202045749	LER	3/11/2010 12:59	954328	10-1864	2	LANL	USE	S
EXS03100084.wiff	247193001	LER	3/11/2010 13:14	954328	10-1864	2	LANL	USE	S
EXS03100085.wiff	1202045750	LER	3/11/2010 13:30	954328	10-1864	2	LANL	USE	S
EXS03100086.wiff	1202045751	LER	3/11/2010 13:46	954328	10-1864	2	LANL	USE	S
EXS03100087.wiff	247193002	LER	3/11/2010 14:02	954328	10-1864	2	LANL	USE	S
EXS03100088.wiff	247193003	LER	3/11/2010 14:17	954328	10-1864	2	LANL	USE	S
EXS03100089.wiff	247193004	LER	3/11/2010 14:33	954328	10-1864	2	LANL	USE	S
EXS03100090.wiff	247193005	LER	3/11/2010 14:49	954328	10-1864	2	LANL	USE	S
EXS03100091.wiff	247193006	LER	3/11/2010 15:04	954328	10-1864	2	LANL	USE	S
EXS03100092.wiff	WXXCCV	LER	3/11/2010 15:20			1		USE	C
EXS03100093.wiff	XIBLK10	LER	3/11/2010 15:36			1		USE	B
EXS03100094.wiff	WXXCRI	LER	3/11/2010 15:51			1		USE	C
EXS03100095.wiff	247193007	LER	3/11/2010 16:07	954328	10-1864	2	LANL	USE	S
EXS03100096.wiff	247193008	LER	3/11/2010 16:23	954328	10-1864	2	LANL	USE	S
EXS03100097.wiff	247193009	LER	3/11/2010 16:39	954328	10-1864	2	LANL	USE	S
EXS03100098.wiff	247193010	LER	3/11/2010 16:54	954328	10-1864	2	LANL	USE	S
EXS03100099.wiff	247193011	LER	3/11/2010 17:10	954328	10-1864	2	LANL	USE	S
EXS03100100.wiff	247193012	LER	3/11/2010 17:26	954328	10-1864	2	LANL	USE	S
EXS03100101.wiff	247193013	LER	3/11/2010 17:41	954328	10-1864	2	LANL	USE	S
EXS03100102.wiff	247193014	LER	3/11/2010 17:57	954328	10-1864	2	LANL	USE	S
EXS03100103.wiff	WXXCCV	LER	3/11/2010 18:13			1		USE	C
EXS03100104.wiff	XIBLK11	LER	3/11/2010 18:28			1		USE	B

EXS03100105.wiff	WXXCRI	LER	3/11/2010 18:44	957198	10-1975	1	LANL	USE	C
EXS03100106.wiff	1202052402	LER	3/11/2010 19:00	957198	10-1975	2	LANL	USE	S
EXS03100107.wiff	1202052403	LER	3/11/2010 19:16	957198	10-1975	2	LANL	USE	S
EXS03100108.wiff	247775003	LER	3/11/2010 19:31	957198	10-1975	2	LANL	USE	S
EXS03100109.wiff	1202052404	LER	3/11/2010 19:47	957198	10-1975	2	LANL	USE	S
EXS03100110.wiff	1202052405	LER	3/11/2010 20:03	957198	10-1975	2	LANL	USE	S
EXS03100111.wiff	247775004	LER	3/11/2010 20:18	957198	10-1975	2	LANL	USE	S
EXS03100112.wiff	247775005	LER	3/11/2010 20:34	957198	10-1975	2	LANL	USE	S
EXS03100113.wiff	247775006	LER	3/11/2010 20:50	957198	10-1975	2	LANL	USE	S
EXS03100114.wiff	247775007	LER	3/11/2010 21:06	957198	10-1975	2	LANL	USE	S
EXS03100115.wiff	247775008	LER	3/11/2010 21:21	957198	10-1975	2	LANL	USE	S
EXS03100116.wiff	WXXCCV	LER	3/11/2010 21:37			1		USE	C
EXS03100117.wiff	XIBLK12	LER	3/11/2010 21:53			1		USE	B
EXS03100118.wiff	WXXCRI	LER	3/11/2010 22:08			1		USE	C
EXS03100119.wiff	247775009	LER	3/11/2010 22:24	957198	10-1975	2	LANL	USE	S
EXS03100120.wiff	247775010	LER	3/11/2010 22:40	957198	10-1975	2	LANL	USE	S
EXS03100121.wiff	247775011	LER	3/11/2010 22:55	957198	10-1975	2	LANL	USE	S
EXS03100122.wiff	247775012	LER	3/11/2010 23:11	957198	10-1975	2	LANL	USE	S
EXS03100123.wiff	247775013	LER	3/11/2010 23:27	957198	10-1975	2	LANL	USE	S
EXS03100124.wiff	247775014	LER	3/11/2010 23:43	957198	10-1975	2	LANL	USE	S
EXS03100125.wiff	247775015	LER	3/11/2010 23:58	957198	10-1975	2	LANL	USE	S
EXS03100126.wiff	247775016	LER	3/12/2010 0:14	957198	10-1975	2	LANL	USE	S
EXS03100127.wiff	247775017	LER	3/12/2010 0:30	957198	10-1975	2	LANL	USE	S
EXS03100128.wiff	WXXCCV	LER	3/12/2010 0:45			1		USE	C
EXS03100129.wiff	XIBLK13	LER	3/12/2010 1:01			1		USE	B
EXS03100130.wiff	WXXCRI	LER	3/12/2010 1:17			1		USE	C
EXS03100131.wiff	1202047525	LER	3/12/2010 1:32	955063	VARIOUS	2	LANL	USE	S
EXS03100132.wiff	1202047526	LER	3/12/2010 1:48	955063	VARIOUS	2	LANL	USE	S
EXS03100133.wiff	247332002	LER	3/12/2010 2:04	955063	10-1905	2	LANL	USE	S
EXS03100134.wiff	1202047527	LER	3/12/2010 2:20	955063	10-1905	2	LANL	USE	S
EXS03100135.wiff	1202047528	LER	3/12/2010 2:35	955063	10-1905	2	LANL	USE	S
EXS03100136.wiff	247332003	LER	3/12/2010 2:51	955063	10-1905	2	LANL	USE	S
EXS03100137.wiff	247332004	LER	3/12/2010 3:07	955063	10-1905	2	LANL	USE	S
EXS03100138.wiff	247332005	LER	3/12/2010 3:22	955063	10-1905	2	LANL	USE	S
EXS03100139.wiff	247332006	LER	3/12/2010 3:38	955063	10-1905	2	LANL	USE	S
EXS03100140.wiff	247332007	LER	3/12/2010 3:54	955063	10-1905	2	LANL	USE	S
EXS03100141.wiff	WXXCCV	LER	3/12/2010 4:09			1		USE	C

File Name	Access	Time	IP	Port	Protocol	Device	OS	Version	Build
EXS03100142.wiff	LER	3/12/2010 4:25	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100143.wiff	LER	3/12/2010 4:41	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100144.wiff	LER	3/12/2010 4:56	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100145.wiff	LER	3/12/2010 5:12	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100146.wiff	LER	3/12/2010 5:28	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100147.wiff	LER	3/12/2010 5:44	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100148.wiff	LER	3/12/2010 5:59	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100149.wiff	LER	3/12/2010 6:15	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100150.wiff	LER	3/12/2010 6:31	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100151.wiff	LER	3/12/2010 6:47	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100152.wiff	LER	3/12/2010 7:02	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100153.wiff	LER	3/12/2010 7:18	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100154.wiff	LER	3/12/2010 7:34	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100155.wiff	LER	3/12/2010 7:50	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100156.wiff	LER	3/12/2010 8:05	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100157.wiff	LER	3/12/2010 8:21	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100158.wiff	LER	3/12/2010 8:37	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100159.wiff	LER	3/12/2010 8:53	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100160.wiff	LER	3/12/2010 9:08	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600
EXS03100161.wiff	LER	3/12/2010 9:24	10.190.8.21	80	HTTP	LANL	Windows	7.0	7600

Laboratories LLC
EL-DER

DER Report No.: 817078

Revision No.: 2

DATA EXCEPTION REPORT

Mo. Day Yr. 14-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 955063	Sample Numbers: See Below		
<p>Potentially affected work order(s)(SDG): 247332(10-1905), 247343(10-1908)</p> <p>Application Issues:</p> <p>Sample Analyzed out of Holding</p> <p>Other</p> <p>Failed Recovery for MSD/PSD</p> <p>Failed Recovery for LCS/LCSD</p> <p>Failed Recovery for MS/PS</p>			
Specification and Requirements		DER Disposition:	
<p>Exception Description:</p> <p>1. The following samples and QC were analyzed out of holding for the Primary explosives analysis: 247332002, 247332003, 247332004, 247332005, 247332006, 247332007, 247332008, 247343001, 247343002, 247343003, 247343004, 247343005, 247343006, 247343007, 247343008, 247343009, 247343010, 247343011, 1202047527(MS) and 1202047528(MSD).</p> <p>2. The LCS (1202047526) did not meet spike recovery limits for Tetryl at 20.4%. The recovery limits are 51-112%.</p> <p>3. The MS (1202047527) did not meet spike recovery limits for TATB at 206%. The recovery limits are 29-155%.</p> <p>4. The MSD (1202047528) did not meet spike recovery limits for TATB at 177%. The recovery limits are 29-155%.</p> <p>5. The internal standard responses were outside of the acceptance criteria in the following samples: 1202047527(MS) and 1202047528(MSD). Please see the Form 8 in the data package for the exact recoveries.</p>		<p>1. The analytical holding times for the samples in this batch were exceeded due to limitations of instrument capacity. However, these samples were analyzed within two times the analytical holding time of the method. The client was notified of this situation and is in agreement to receive these qualified data. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.</p> <p>2. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative.</p> <p>3. & 4. Since the LCS met acceptance limits for TATB, the noted exceptions are attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.</p> <p>5. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. Sample re-analysis was not required. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.</p>	

Originator's Name:

Michael Penny

14-APR-10

Data Validator/Group Leader:

Herbert Maier

14-APR-10

GC
SEMIVOLATILE
PCB
ANALYSIS

PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1905

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 957231
Prep Batch Number: 957230

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247332006	RE15-10-8342
247332007	RE15-10-8343
247332008	RE15-10-8377
1202052484	Method Blank (MB)
1202052485	Laboratory Control Sample (LCS)
1202052486	247332006(RE15-10-8342) Matrix Spike (MS)
1202052487	247332006(RE15-10-8342) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 15.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 247332006 (RE15-10-8342) was selected for the matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

Samples 1202052486 (RE15-10-8342MS), 1202052487 (RE15-10-8342MSD) and 247332006 (RE15-10-8342) were diluted at 1:5 due to the oily matrix of the extracts.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports (DERs) are for documentation of any procedural anomalies that may deviate from referenced

SOP or contractual document. A DER was not required for this SDG.

Manual Integrations

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS. The data reported for the MS and MSD are from the same analytical column as the parent sample.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VII's will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD1A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticideII)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Andy Whitlock

Date: 3-16-2010

Roadmap for LANL 10-1905 PCB

This roadmap was analyzed by yip00818 on 03-01-2010, 09:09.

This roadmap was reviewed by hea01125 on 03-04-2010, 15:45.

This roadmap was packaged by yml on 03-16-2010, 17:51.

Front Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/046f4601.d	247332006	sample	26-FEB-2010	14:48	10-1905.sub	RE15-10-8342	5.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/049f4901.d	247332007	sample	26-FEB-2010	15:26	10-1905.sub	RE15-10-8343	1.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/050f5001.d	247332008	sample	26-FEB-2010	15:38	10-1905.sub	RE15-10-8377	1.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/046f4601.d	247332006	sample	26-FEB-2010	14:48	10-1905.sub	RE15-10-8342	5.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/049f4901.d	247332007	sample	26-FEB-2010	15:26	10-1905.sub	RE15-10-8343	1.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/050f5001.d	247332008	sample	26-FEB-2010	15:38	10-1905.sub	RE15-10-8377	1.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/030f3001-2.d	1202052484	mb	26-FEB-2010	11:30	10-1905.sub	PBLK01	1.00000	957231	
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/031f3101-2.d	1202052485	lcs	26-FEB-2010	11:43	10-1905.sub	PBLK01LCS	1.00000	957231	
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/047f4701.d	1202052486	ms	26-FEB-2010	15:00	10-1905.sub	RE15-10-8342MS	5.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/048f4801.d	1202052487	msd	26-FEB-2010	15:13	10-1905.sub	RE15-10-8342MSD	5.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/030f3001-2.d	1202052484	mb	26-FEB-2010	11:30	10-1905.sub	PBLK01	1.00000	957231	
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/031f3101-2.d	1202052485	lcs	26-FEB-2010	11:43	10-1905.sub	PBLK01LCS	1.00000	957231	
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/047f4701.d	1202052486	ms	26-FEB-2010	15:00	10-1905.sub	RE15-10-8342MS	5.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/022610.b/048f4801.d	1202052487	msd	26-FEB-2010	15:13	10-1905.sub	RE15-10-8342MSD	5.00000	957231	UPLOAD BOTH COLUMNS, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332006

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-F-040
Dilution: 5
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	17.6	ug/kg	5.87	17.6	1
11104-28-2	Aroclor-1221	U	17.6	ug/kg	5.87	17.6	1
11141-16-5	Aroclor-1232	U	17.6	ug/kg	5.87	17.6	1
53469-21-9	Aroclor-1242	U	17.6	ug/kg	5.87	17.6	1
12672-29-6	Aroclor-1248	U	17.6	ug/kg	5.87	17.6	1
11097-69-1	Aroclor-1254	U	17.6	ug/kg	5.87	17.6	1
11096-82-5	Aroclor-1260	U	17.6	ug/kg	5.87	17.6	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1905
Lab Sample ID: 247332007

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 4.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.48	ug/kg	1.16	3.48	1
11104-28-2	Aroclor-1221	U	3.48	ug/kg	1.16	3.48	1
11141-16-5	Aroclor-1232	U	3.48	ug/kg	1.16	3.48	1
53469-21-9	Aroclor-1242	U	3.48	ug/kg	1.16	3.48	1
12672-29-6	Aroclor-1248	U	3.48	ug/kg	1.16	3.48	1
11097-69-1	Aroclor-1254	U	3.48	ug/kg	1.16	3.48	1
11096-82-5	Aroclor-1260	U	3.48	ug/kg	1.16	3.48	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332008

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-040

Client ID: RE15-10-8377
Batch ID: 957231
Run Date: 02/26/2010 15:38
Prep Date: 02/25/2010 10:53
Data File: 050f5001.d
050b5001.d

Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.52	ug/kg	1.17	3.52	1
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	1
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	1
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	1
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	1
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	1
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	1

QUALITY CONTROL SUMMARY

PCB

Page 1 of 1

Surrogate Recovery Report

SDG Number: 10-1905

Matrix Type: SOLID

CAP Column (1) : CLP1

CAP Column (2) : CLP2

Sample ID	Client ID	4CMX 1	4CMX 2	DCB 1	DCB 2
		%REC #	%REC #	%REC #	%REC #
1202052484	MB for batch 957230	52	54	68	66
1202052485	LCS for batch 957230	60	62	73	69
247332006	RE15-10-8342	60 D	59 D	72 D	72 D
1202052486	RE15-10-8342MS	66 D	54 D	76 D	77 D
1202052487	RE15-10-8342MSD	55 D	48 D	64 D	65 D
247332007	RE15-10-8343	47	43	59	56
247332008	RE15-10-8377	44	42	54	52

Surrogate

4CMX = 4cmx

DCB = Decachlorobiphenyl

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Acceptance Limits

(32%-120%)

(30%-116%)

PCB

Page 1 of 1

**Quality Control Summary
Spike Recovery Report****SDG Number:** 10-1905**Sample Type:** Laboratory Control Sample**Client ID:** LCS for batch 957230**Matrix:** SOIL**Lab Sample ID:**1202052485**Instrument:** ECD1A.I**Analysis Date:** 02/26/2010 11:43**Dilution:** 1**Analyst:** YS1**Pre Batch ID:** 957230**Inj. Vol:** 1 uL**Batch ID:** 957231

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	22.1	66	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	26.7	80	45-118

PCB

Page 1 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Client ID: RE15-10-8342MS

Lab Sample ID:1202052486

Instrument: ECD1A.I

Analyst: YS1

Inj. Vol: 1 uL

Sample Type: Matrix Spike

Matrix: R

%Moisture: 5.4

Analysis Date: 02/26/2010 15:00

Dilution: 5

Prep Batch ID: 957230

Batch ID: 957231

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	35.2	0.00 U	27.2	77	23-119
11096-82-5	MS Aroclor-1260	35.2	0.00 U	35.9	102	28-124

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1905

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8342MSD

Matrix: R

Lab Sample ID:1202052487

%Moisture: 5.4

Instrument: ECD1A.I

Analysis Date: 02/26/2010 15:13

Dilution: 5

Analyst: YS1

Pren Batch II 957230

Inj. Vol: 1 uL

Batch ID: 957231

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	MSD Aroclor-1016	35.2	0.00 U	22.9	65	23-119	17	0-28
11096-82-5	MSD Aroclor-1260	35.2	0.00 U	28.1	80	28-124	24	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1905	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 957230	Instrument ID:	ECD1A1_2	Data File:	030b3001-1.d
Lab Sample ID:	1202052484		ECD1A1_1		030f3001-1.d
Column:	CLP2	Prep Date:	02/25/2010 10:53	Analyzed:	02/26/10 11:30
	CLP1	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 957230	1202052485	031f3101-1.d 031b3101-1.d	02/26/10	1143
02 RE15-10-8342	247332006	046f4601.d 046b4601.d	02/26/10	1448
03 RE15-10-8342MS	1202052486	047f4701.d 047b4701.d	02/26/10	1500
04 RE15-10-8342MSD	1202052487	048f4801.d 048b4801.d	02/26/10	1513
05 RE15-10-8343	247332007	049f4901.d 049b4901.d	02/26/10	1526
06 RE15-10-8377	247332008	050f5001.d 050b5001.d	02/26/10	1538

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332006

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45

Matrix: R
%Moisture: 5.4

Client ID: RE15-10-8342
Batch ID: 957231

Client: LANL010
Method: SW846 8082
Inst: ECD1A.I

Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 5

Run Date: 02/26/2010 14:48

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/25/2010 10:53

Aliquot: 30 g

Final Volume: 1 mL

Data File: 046f4601.d
046b4601.d

Column: 1 CLP1
2 CLP2

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	17.6	ug/kg	5.87	17.6	1
11104-28-2	Aroclor-1221	U	17.6	ug/kg	5.87	17.6	1
11141-16-5	Aroclor-1232	U	17.6	ug/kg	5.87	17.6	1
53469-21-9	Aroclor-1242	U	17.6	ug/kg	5.87	17.6	1
12672-29-6	Aroclor-1248	U	17.6	ug/kg	5.87	17.6	1
11097-69-1	Aroclor-1254	U	17.6	ug/kg	5.87	17.6	1
11096-82-5	Aroclor-1260	U	17.6	ug/kg	5.87	17.6	1

Data File: /chem/ecdl1a.i/022610.b/046f4601.d
Report Date: 01-Mar-2010 06:15

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/046f4601.d
Lab Smp Id: 247332006 Client Smp ID: RE15-10-8342
Inj Date : 26-FEB-2010 14:48
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |247332006|5|
Misc Info : |ECD82P_1S|957231|SVA|LANL|SOIL|RE15-10-8342|||
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m
Meth Date : 01-Mar-2010 06:03 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 46
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.39600	% Moisture

Cpnd Variable Local Compound Variable

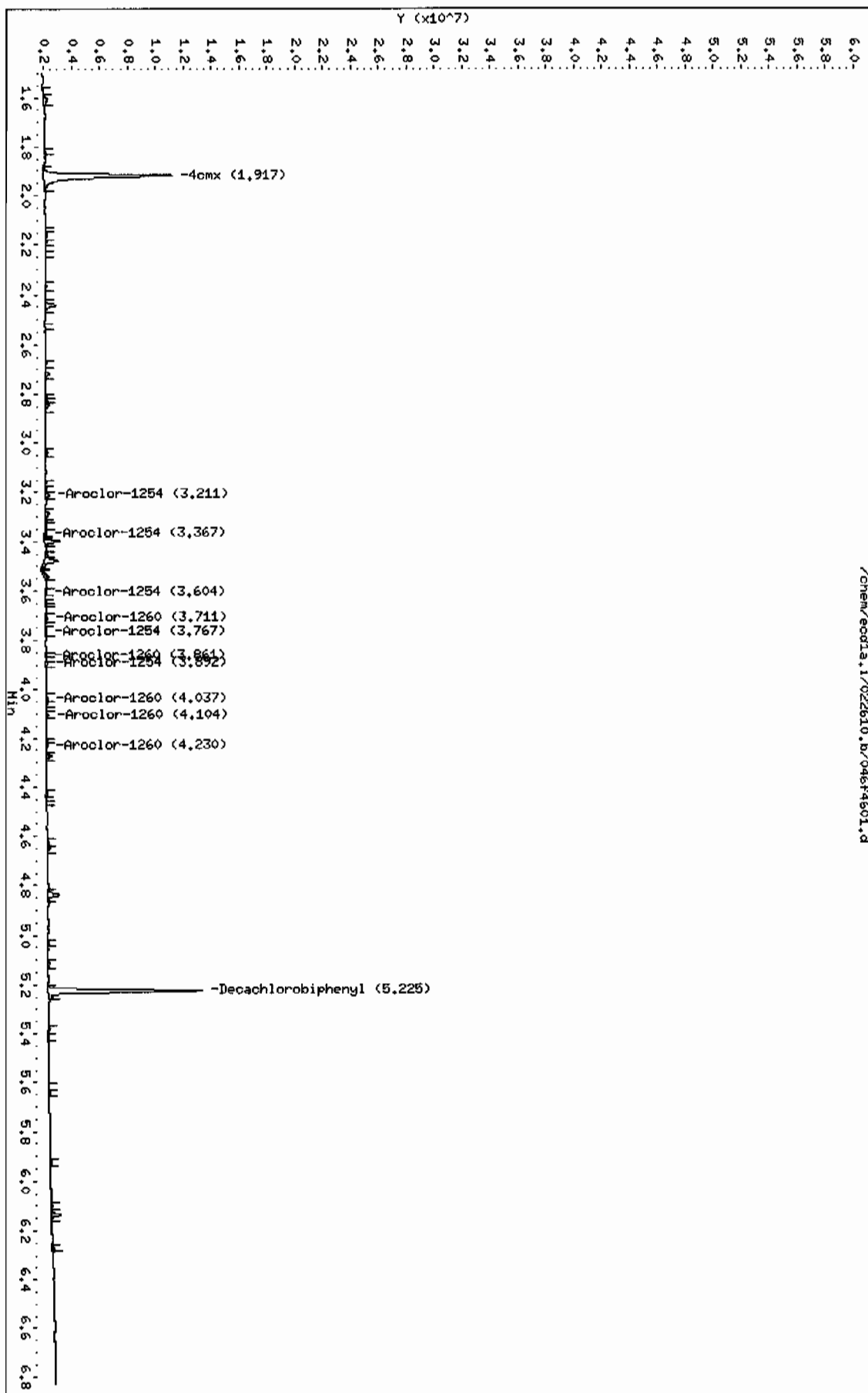
CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
1.917	1.917	0.000	10370894	24.0827	4.2 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.225	5.226	-0.001	8896368	28.9511	5.1 80.00- 120.00	100.00	

Data File: /chem/eod1a.i/022610.b/046f4601.d
Date : 26-FEB-2010 14:48
Client ID: RE15-10-8342
Sample Info: 124733206151
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

/chem/eod1a.i/022610.b/046f4601.d



Data File: /chem/ecdla.i/022610.b/046b4601.d
 Report Date: 01-Mar-2010 05:56

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/046b4601.d
 Lab Smp Id: 247332006 Client Smp ID: RE15-10-8342
 Inj Date : 26-FEB-2010 14:48
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |247332006|5|
 Misc Info : |ECD82P_1S|957231|SVA|LANL|SOIL|RE15-10-8342|||
 Comment :
 Method : /chem/ecdla.i/022610.b/ECD1-B-8082-022210.m
 Meth Date : 01-Mar-2010 05:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 46
 Dil Factor: 5.00000
 Integrator: Falcon Compound Sublist: 10-1905.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.39600	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
2.277	2.276	0.001	7062750	23.7486	4.2 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.922	5.922	0.000	6115081	28.9131	5.1 80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/022610.b/046b4601.d

Date : 26-FEB-2010 14:48

Client ID: RE15-10-8342

Sample Info: 1247332006151

Volume Injected (uL): 1.0

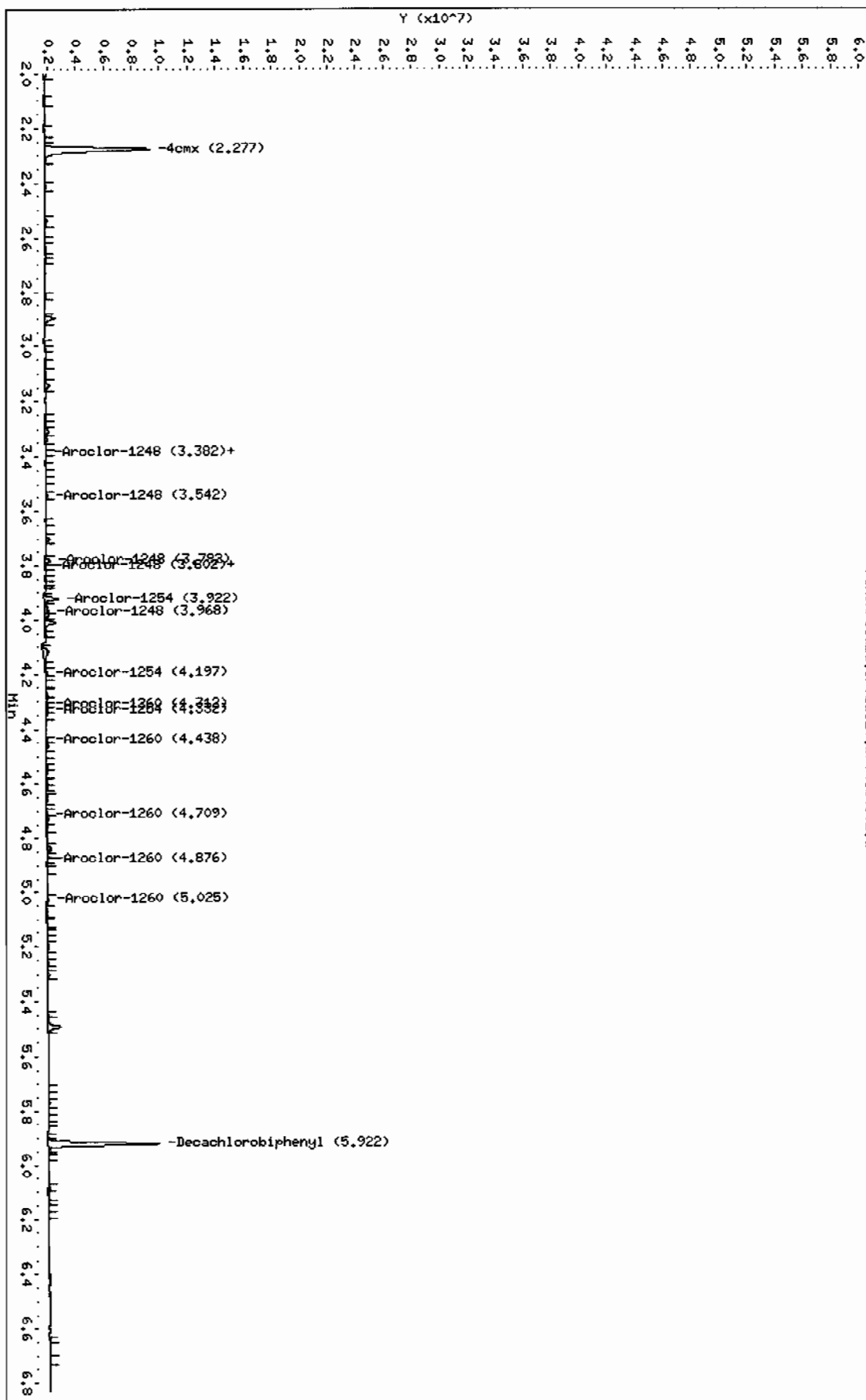
Column phase: CLP2

Instrument: ecdl1a.i

Operator: VSI

Column diameter: 0.25

/chem/ecdl1a.i/022610.b/046b4601.d



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1905	Date Collected:	02/12/2010 12:00	Matrix:	R
Lab Sample ID:	247332007	Date Received:	02/18/2010 08:45	% Moisture:	4.1
Client ID:	RE15-10-8343	Client:	LANL010	Project:	LANL01004
Batch ID:	957231	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:26	Inst:	ECD1A.1	Dilution:	1
Prep Date:	02/25/2010 10:53	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	049f4901.d	Aliquot:	30 g	Final Volume:	1 mL
	049b4901.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.48	ug/kg	1.16	3.48	1
11104-28-2	Aroclor-1221	U	3.48	ug/kg	1.16	3.48	1
11141-16-5	Aroclor-1232	U	3.48	ug/kg	1.16	3.48	1
53469-21-9	Aroclor-1242	U	3.48	ug/kg	1.16	3.48	1
12672-29-6	Aroclor-1248	U	3.48	ug/kg	1.16	3.48	1
11097-69-1	Aroclor-1254	U	3.48	ug/kg	1.16	3.48	1
11096-82-5	Aroclor-1260	U	3.48	ug/kg	1.16	3.48	1

Data File: /chem/ecdla.i/022610.b/049f4901.d
 Report Date: 01-Mar-2010 07:04

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/049f4901.d
 Lab Smp Id: 247332007 Client Smp ID: RE15-10-8343
 Inj Date : 26-FEB-2010 15:26
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |247332007|1|
 Misc Info : |ECD82P_1S|957231|SVA|LANL|SOIL|RE15-10-8343|||
 Comment :
 Method : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m
 Meth Date : 01-Mar-2010 06:19 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 49
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1905.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	4.13400	% Moisture

Cpnd Variable Local Compound Variable

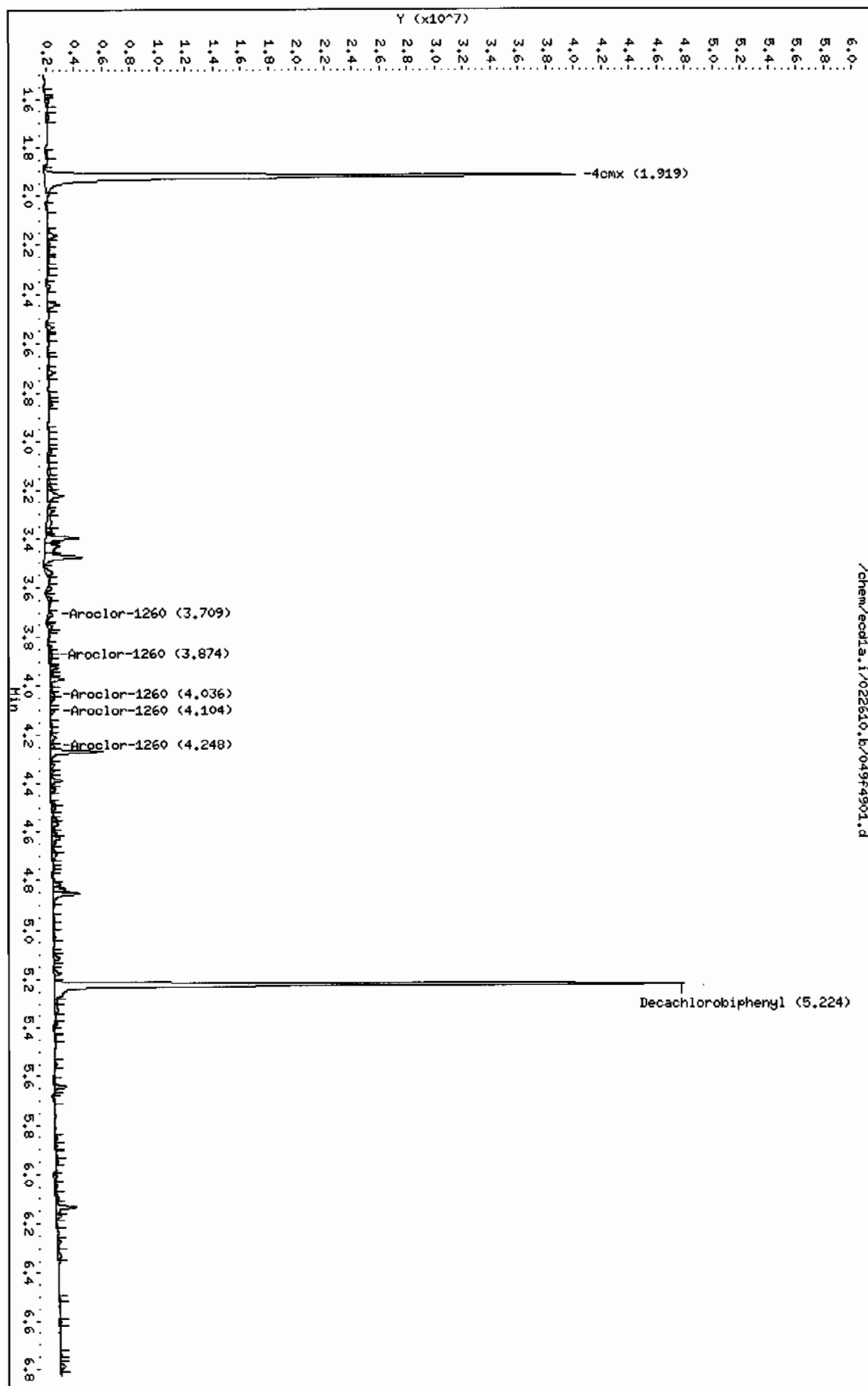
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.919	1.917	0.002	40738660	94.6009	3.3	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.224	5.226	-0.002	36118315	117.538	4.1	80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/022610.b/049f4901.d
Date: 26-FEB-2010 15:26
Client ID: RELS-10-8343
Sample Info: 1247332007111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/022610.b/049b4901.d
Report Date: 01-Mar-2010 06:28

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/022610.b/049b4901.d
Lab Smp Id: 247332007 Client Smp ID: RE15-10-8343
Inj Date : 26-FEB-2010 15:26
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |247332007|1|
Misc Info : |ECD82P_1S|957231|SVA|LANL|SOIL|RE15-10-8343|||
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 01-Mar-2010 06:02 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	4.13400	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	

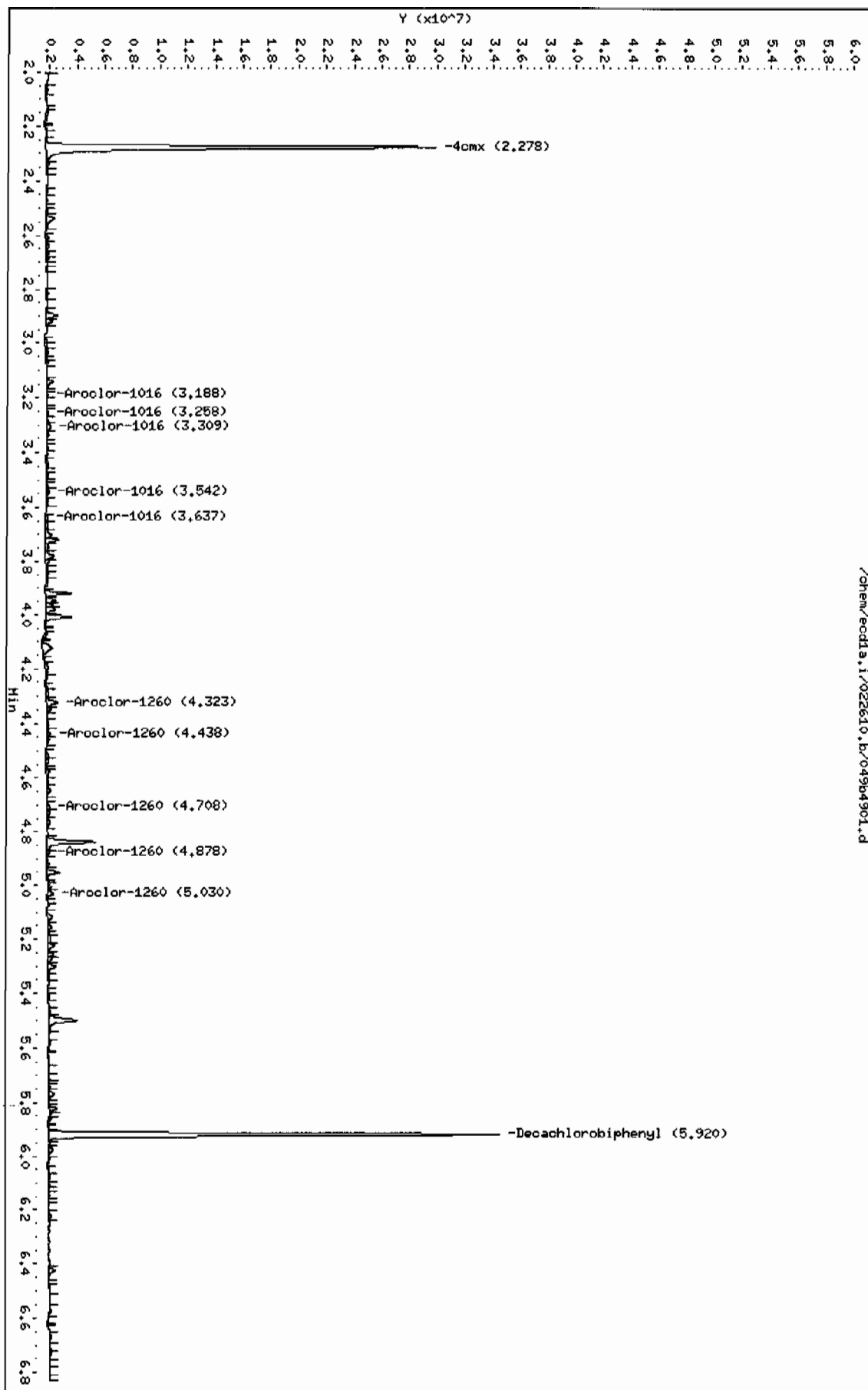
\$ 11 4cmx					CAS #: 877-09-8		
2.278	2.276	0.002	25344204 85.2201	3.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.920	5.922	-0.002	23709146 112.101	3.9	80.00- 120.00	100.00	

Data File: /chem/ecdt.a.i/022610.b/049b4901.d
Date : 26-FEB-2010 15:26
Client ID: RE15-10-8343
Sample Info: 1247332007111
Volume Injected (ul): 1.0
Column phase: CLP2

Instrument: ecdt.a.i
Operator: YSA
Column diameter: 0.25

/chem/ecdt.a.i/022610.b/049b4901.d



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 247332008

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 5.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.52	ug/kg	1.17	3.52	1
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	1
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	1
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	1
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	1
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	1
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	1

Data File: /chem/ecdla.i/022610.b/050f5001.d
Report Date: 01-Mar-2010 07:05

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/050f5001.d
Lab Smp Id: 247332008 Client Smp ID: RE15-10-8377
Inj Date : 26-FEB-2010 15:38
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247332008|1|
Misc Info : |ECD82P_1S|957231|SVA|LANL|SOIL|RE15-10-8377|||
Comment :
Method : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m
Meth Date : 01-Mar-2010 06:19 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.35260	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
1.918	1.917	0.001	37991263 88.2211	3.1	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.224	5.226	-0.002	33420295 108.758	3.8	80.00- 120.00	100.00

Data File: /chem/eodla.i/022610.b/050F5001.d

Date: 26-FEB-2010 15:38

Client ID: REL5-10-8377

Sample Info: 124733200811

Volume Injected (uL): 1.0

Column phase: CLP1

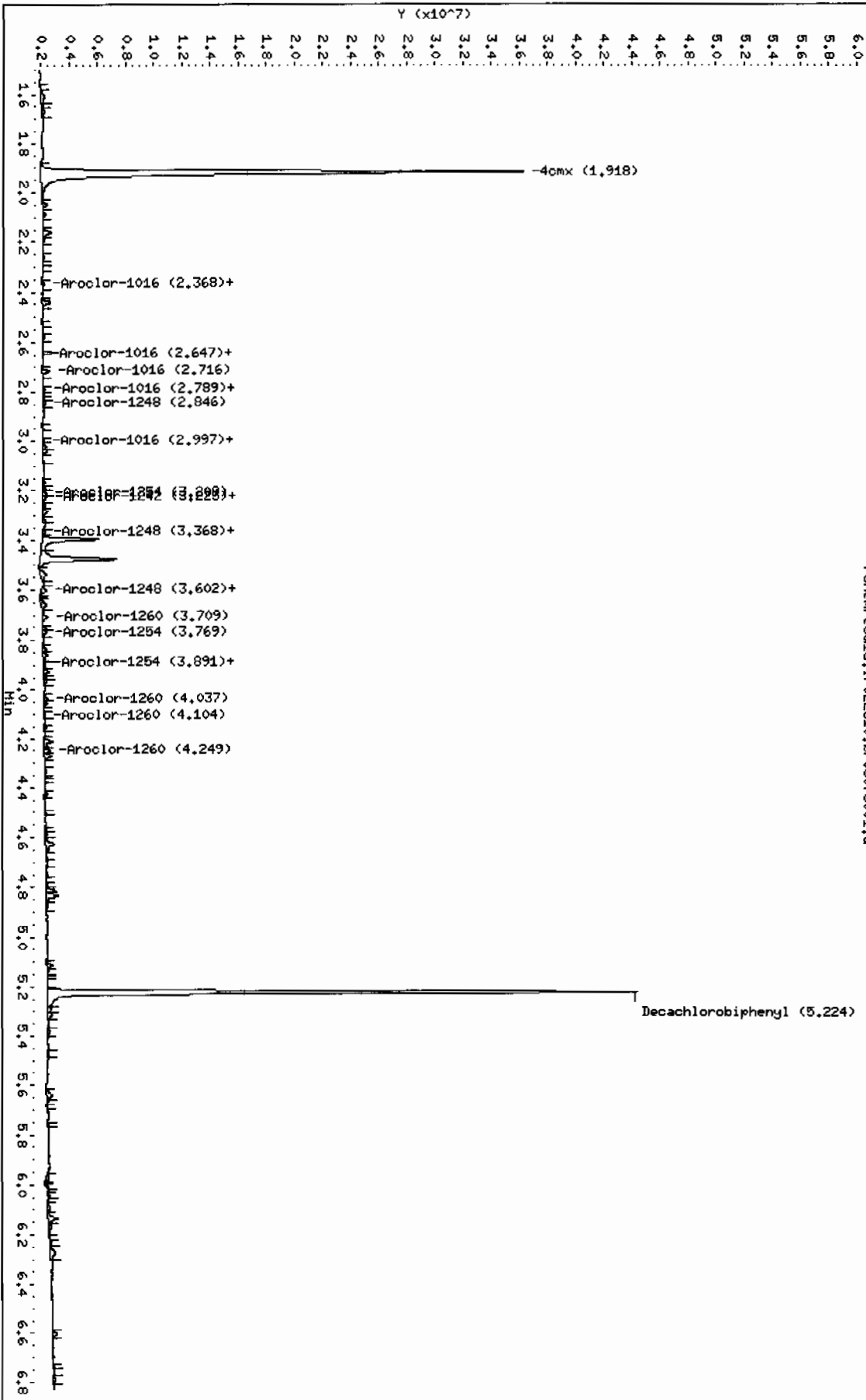
Page 1

Instrument: eodla.i

Operator: YSL

Column diameter: 0.25

/chem/eodla.i/022610.b/050F5001.d



Data File: /chem/ecdl1a.i/022610.b/050b5001.d
Report Date: 01-Mar-2010 07:04

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/022610.b/050b5001.d
Lab Smp Id: 247332008 Client Smp ID: RE15-10-8377
Inj Date : 26-FEB-2010 15:38
Operator : YSl Inst ID: ecd1a.i
Smp Info : |247332008|1|
Misc Info : |ECD82P_1S|957231|SVA|LANL|SOIL|RE15-10-8377|||
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 01-Mar-2010 06:02 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.35260	% Moisture

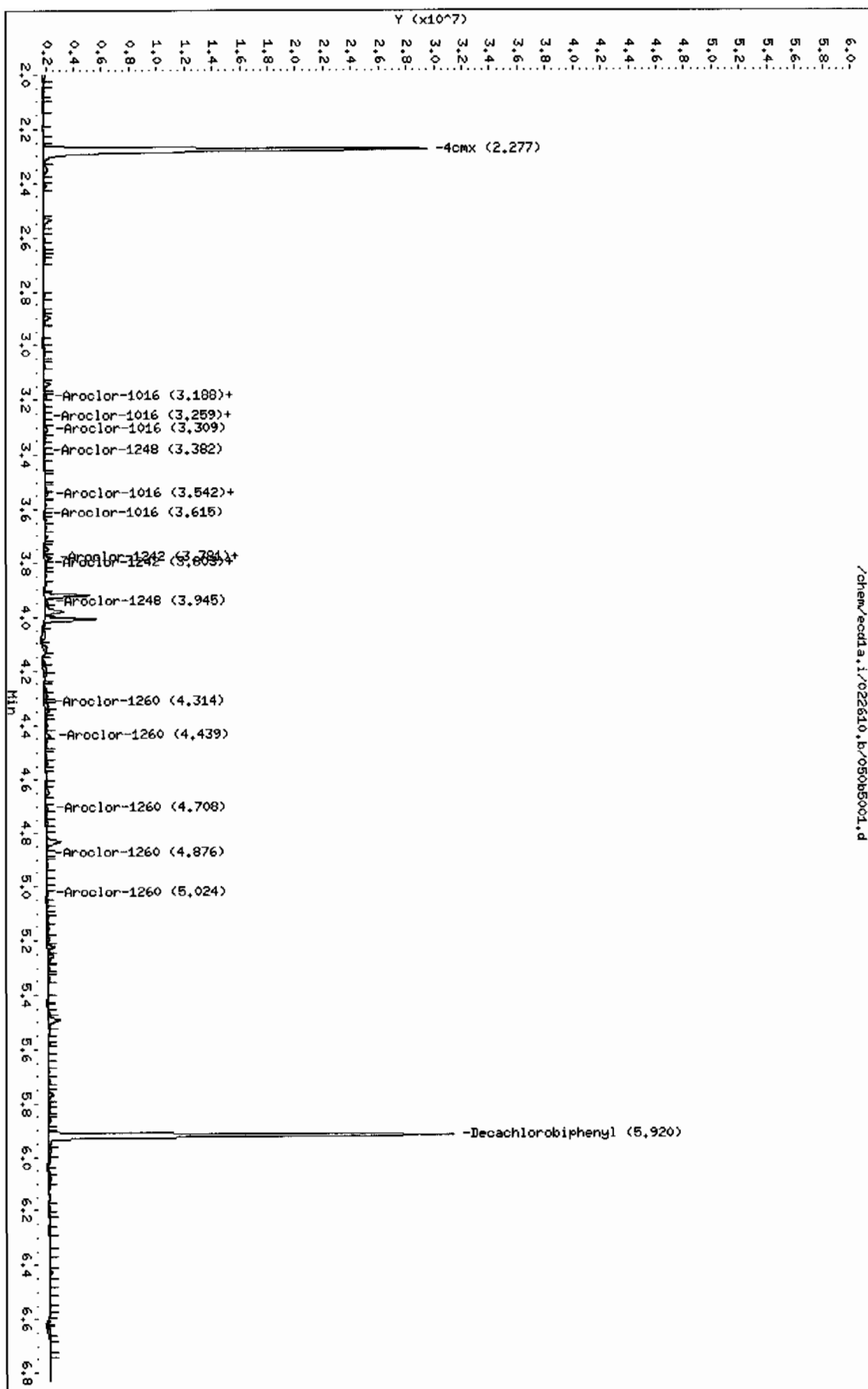
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8		
\$ 11 4cmx	2.277	2.276	0.001	24988884 84.0254	3.0	80.00- 120.00	100.00

					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl	5.920	5.922	-0.002	21964449 103.852	3.6	80.00- 120.00	100.00

Data File: /chem/ecod1a.i/022610.b/050b5001.d
Date: 26-FEB-2010 15:38
Client ID: RE15-10-8377
Sample Info: 12473200811
Volume Injected (uL): 1.0
Column Phase: CLP2

Instrument: ecod1a.i
Operator: YS1
Column diameter: 0.25



STANDARDS DATA

Report Date: 02-Mar-2010 17:50

Calibration History

Method : /chem/ecdl1a.i/022210.b/ECD1-F-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecdl1a.i/022210.b/032f3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdl1a.i/022210.b/026f2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdl1a.i/022210.b/020f2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdl1a.i/022210.b/014f1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdl1a.i/022210.b/008f0801.d
Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdl1a.i/022210.b/033f3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdl1a.i/022210.b/027f2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdl1a.i/022210.b/021f2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdl1a.i/022210.b/015f1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdl1a.i/022210.b/009f0901.d
Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdl1a.i/022210.b/034f3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdl1a.i/022210.b/028f2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdl1a.i/022210.b/022f2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdl1a.i/022210.b/016f1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdl1a.i/022210.b/010f1001.d
Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdl1a.i/022210.b/035f3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdl1a.i/022210.b/030f3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdl1a.i/022210.b/023f2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdl1a.i/022210.b/017f1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdl1a.i/022210.b/011f1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdl1a.i/022210.b/007f0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdl1a.i/022210.b/006f0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdl1a.i/022210.b/005f0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdl1a.i/022210.b/004f0401.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdl1a.i/022210.b/036f3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdl1a.i/022210.b/029f2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdl1a.i/022210.b/024f2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdl1a.i/022210.b/018f1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdl1a.i/022210.b/012f1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 20:16	AR1660	/chem/ecdla.i/022610.b/072f7201.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 17:57	AR1660	/chem/ecdla.i/022610.b/061f6101.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 15:51	AR1660	/chem/ecdla.i/022610.b/051f5101.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 13:36	AR1660	/chem/ecdla.i/022610.b/040f4001.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 11:09	AR1660	/chem/ecdla.i/022610.b/028f2801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 11:09	AR1660	/chem/ecdla.i/022610.b/028b2801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 08:55	AR1660	/chem/ecdla.i/022610.b/016f1601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:48	AR1262	/chem/ecdla.i/022610.b/010f1001.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:37	AR1221	/chem/ecdla.i/022610.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:27	AR1232	/chem/ecdla.i/022610.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:16	AR1660	/chem/ecdla.i/022610.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:06	AR1268	/chem/ecdla.i/022610.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:55	AR1248	/chem/ecdla.i/022610.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:45	AR1242	/chem/ecdla.i/022610.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:34	AR1254	/chem/ecdla.i/022610.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:24	AR1660	/chem/ecdla.i/022610.b/002f0201.d

Report Date: 02-Mar-2010 17:49

Calibration History

Method : /chem/ecd1a.i/022610.b/ECD1-B-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecd1a.i/022210.b/032b3201.d
22-FEB-2010 10:23	AR1248	/chem/ecd1a.i/022210.b/026b2601.d
22-FEB-2010 09:20	AR1242	/chem/ecd1a.i/022210.b/020b2001.d
22-FEB-2010 08:16	AR1254	/chem/ecd1a.i/022210.b/014b1401.d
22-FEB-2010 07:13	AR1660	/chem/ecd1a.i/022210.b/008b0801.d

Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecd1a.i/022210.b/033b3301.d
22-FEB-2010 10:33	AR1248	/chem/ecd1a.i/022210.b/027b2701.d
22-FEB-2010 09:30	AR1242	/chem/ecd1a.i/022210.b/021b2101.d
22-FEB-2010 08:27	AR1254	/chem/ecd1a.i/022210.b/015b1501.d
22-FEB-2010 07:24	AR1660	/chem/ecd1a.i/022210.b/009b0901.d

Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecd1a.i/022210.b/034b3401.d
22-FEB-2010 10:44	AR1248	/chem/ecd1a.i/022210.b/028b2801.d
22-FEB-2010 09:41	AR1242	/chem/ecd1a.i/022210.b/022b2201.d
22-FEB-2010 08:37	AR1254	/chem/ecd1a.i/022210.b/016b1601.d
22-FEB-2010 07:34	AR1660	/chem/ecd1a.i/022210.b/010b1001.d

Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecd1a.i/022210.b/035b3501.d
22-FEB-2010 11:05	AR1248	/chem/ecd1a.i/022210.b/030b3001.d
22-FEB-2010 09:51	AR1242	/chem/ecd1a.i/022210.b/023b2301.d
22-FEB-2010 08:48	AR1254	/chem/ecd1a.i/022210.b/017b1701.d
22-FEB-2010 07:45	AR1660	/chem/ecd1a.i/022210.b/011b1101.d
22-FEB-2010 07:03	AR1262	/chem/ecd1a.i/022210.b/007b0701.d
22-FEB-2010 06:52	AR1221	/chem/ecd1a.i/022210.b/006b0601.d
22-FEB-2010 06:41	AR1232	/chem/ecd1a.i/022210.b/005b0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecd1a.i/022210.b/004b0401.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecd1a.i/022210.b/036b3601.d
22-FEB-2010 10:54	AR1248	/chem/ecd1a.i/022210.b/029b2901.d
22-FEB-2010 10:02	AR1242	/chem/ecd1a.i/022210.b/024b2401.d
22-FEB-2010 08:59	AR1254	/chem/ecd1a.i/022210.b/018b1801.d
22-FEB-2010 07:55	AR1660	/chem/ecd1a.i/022210.b/012b1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 20:16 AR1660	/chem/ecdla.i/022610.b/072b7201.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 17:57 AR1660	/chem/ecdla.i/022610.b/061b6101.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 15:51 AR1660	/chem/ecdla.i/022610.b/051b5101.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 13:36 AR1660	/chem/ecdla.i/022610.b/040b4001.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 11:09 AR1660	/chem/ecdla.i/022610.b/028b2801.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 08:55 AR1660	/chem/ecdla.i/022610.b/016b1601.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 07:48 AR1262	/chem/ecdla.i/022610.b/010b1001.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 07:16 AR1660	/chem/ecdla.i/022610.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 07:37 AR1221	/chem/ecdla.i/022610.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 07:27 AR1232	/chem/ecdla.i/022610.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 07:06 AR1268	/chem/ecdla.i/022610.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 06:55 AR1248	/chem/ecdla.i/022610.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 06:45 AR1242	/chem/ecdla.i/022610.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 06:34 AR1254	/chem/ecdla.i/022610.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000	
26-FEB-2010 06:24 AR1660	/chem/ecdla.i/022610.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 01-Mar-2010 06:19 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

 Initial:Start Threshold 12031.000000
 Initial:End Threshold 6015.500000
 Initial:Area Threshold 15489.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 2.000000
 Initial:Negative Peaks OFF
 Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.371	2.341-2.401	1.538e+04
	2.659	2.629-2.689	1.824e+04
	2.739	2.709-2.769	1.207e+04
	2.776	2.746-2.806	7.096e+03
	2.987	2.957-3.017	8.912e+03
63 4,4-DDD	3.900	3.880-3.920	3.060e+05
64 4,4-DDE	3.551	3.531-3.571	3.552e+05
62 4,4-DDT	4.064	4.044-4.084	2.080e+05
2 Aroclor-1221	2.031	2.001-2.061	4.398e+03
	2.124	2.094-2.154	2.431e+03
	2.150	2.120-2.180	1.042e+04
3 Aroclor-1232	2.371	2.341-2.401	6.218e+03
	2.659	2.629-2.689	7.488e+03
	2.739	2.709-2.769	4.887e+03
	2.854	2.824-2.884	2.191e+03
4 Aroclor-1242	3.241	3.211-3.271	2.731e+03
	2.371	2.341-2.401	1.256e+04
	2.659	2.629-2.689	1.461e+04
	2.776	2.746-2.806	5.629e+03
	2.987	2.957-3.017	7.310e+03
	3.241	3.211-3.271	6.183e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	2.854	2.824-2.884	9.301e+03
	2.987	2.957-3.017	1.241e+04
	3.241	3.211-3.271	1.220e+04
	3.373	3.343-3.403	1.042e+04
	3.606	3.576-3.636	6.820e+03
6 Aroclor-1254	3.216	3.186-3.246	1.201e+04
	3.371	3.341-3.401	1.583e+04
	3.605	3.575-3.635	1.952e+04
	3.767	3.737-3.797	1.381e+04
	3.877	3.847-3.907	1.428e+04
7 Aroclor-1260	3.714	3.684-3.744	1.707e+04
	3.876	3.846-3.906	2.364e+04
	4.039	4.009-4.069	2.497e+04
	4.107	4.077-4.137	1.441e+04
	4.249	4.219-4.279	1.443e+04
8 Aroclor-1262	3.714	3.684-3.744	1.261e+04
	3.876	3.846-3.906	1.569e+04
	4.106	4.076-4.136	1.995e+04
	4.250	4.220-4.280	1.798e+04
	4.429	4.399-4.459	3.725e+04
9 Aroclor-1268	4.613	4.583-4.643	4.848e+04
	4.636	4.606-4.666	5.448e+04
	4.748	4.718-4.778	3.862e+04
	4.951	4.921-4.981	1.635e+04
	5.117	5.087-5.147	1.121e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.917	1.887-1.947	4.306e+05
\$ 12 Decachlorobiphenyl	5.226	5.196-5.256	3.073e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Quant Method : ESTD Target Version : 3.50
Last Update : 01-Mar-2010 07:25 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

Initial:Start Threshold 7222.000000
Initial:End Threshold 3611.000000
Initial:Area Threshold 6833.000000
Initial:P-P Resolution 0.000000
Initial:Bunch Factor 2.000000
Initial:Negative Peaks OFF
Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.173	3.143-3.203	1.279e+04
	3.256	3.226-3.286	8.918e+03
	3.319	3.289-3.349	5.406e+03
	3.547	3.517-3.577	6.916e+03
	3.623	3.593-3.653	6.425e+03
62 4,4-DDT	4.660	4.640-4.680	1.000e+05
63 4,4-DDE	4.128	4.108-4.148	2.505e+05
64 4,4-DDD	4.473	4.453-4.493	2.085e+05
2 Aroclor-1221	2.474	2.444-2.504	3.431e+03
	2.569	2.539-2.599	2.152e+03
	2.609	2.579-2.639	7.328e+03
3 Aroclor-1232	2.876	2.846-2.906	4.920e+03
	3.173	3.143-3.203	5.252e+03
	3.256	3.226-3.286	3.768e+03
	3.547	3.517-3.577	2.699e+03
4 Aroclor-1242	3.781	3.751-3.811	2.631e+03
	3.173	3.143-3.203	1.035e+04
	3.256	3.226-3.286	7.279e+03
	3.546	3.516-3.576	5.768e+03
	3.781	3.751-3.811	5.788e+03
	3.808	3.778-3.838	6.641e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.382	3.352-3.412	7.602e+03
	3.547	3.517-3.577	9.360e+03
	3.781	3.751-3.811	1.065e+04
	3.808	3.778-3.838	1.210e+04
	3.945	3.915-3.975	1.150e+04
6 Aroclor-1254	3.381	3.351-3.411	6.068e+03
	3.804	3.774-3.834	1.074e+04
	3.920	3.890-3.950	1.164e+04
	4.196	4.166-4.226	1.590e+04
	4.332	4.302-4.362	1.198e+04
7 Aroclor-1260	4.313	4.283-4.343	1.321e+04
	4.438	4.408-4.468	1.557e+04
	4.704	4.674-4.734	1.184e+04
	4.877	4.847-4.907	1.220e+04
	5.024	4.994-5.054	2.653e+04
8 Aroclor-1262	4.438	4.408-4.468	1.126e+04
	4.704	4.674-4.734	1.550e+04
	4.877	4.847-4.907	1.407e+04
	5.024	4.994-5.054	2.845e+04
	5.237	5.207-5.267	1.972e+04
9 Aroclor-1268	5.235	5.205-5.265	3.730e+04
	5.263	5.233-5.293	3.492e+04
	5.412	5.382-5.442	2.658e+04
	5.577	5.547-5.607	1.223e+04
	5.770	5.740-5.800	7.433e+04
10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.276	2.246-2.306	2.974e+05
\$ 12 Decachlorobiphenyl	5.922	5.892-5.952	2.115e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m
 Cal Date : 01-Mar-2010 06:19 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/022210.b/032f3201.d
 Level 2: /chem/ecdla.i/022210.b/033f3301.d
 Level 3: /chem/ecdla.i/022210.b/034f3401.d
 Level 4: /chem/ecdla.i/022210.b/035f3501.d
 Level 5: /chem/ecdla.i/022210.b/036f3601.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	18473	16312	15150	14238	12749	15384	14.060
(2)	20194	18537	17759	17625	17070	18237	6.651
(3)	14170	12473	11875	11163	10646	12065	11.317
(4)	8163	7198	6933	6624	6564	7096	9.135
(5)	10345	9178	8623	8273	8142	8912	10.051
63 4,4-DDD	+++++	+++++	+++++	305990	+++++	305990	0.000
64 4,4-DDE	+++++	+++++	+++++	355239	+++++	355239	0.000
62 4,4-DDT	+++++	+++++	+++++	208015	+++++	208015	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	4398	+++++	4398	0.000
(2)	+++++	+++++	+++++	2431	+++++	2431	0.000
(3)	+++++	+++++	+++++	10418	+++++	10418	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	6218	+++++	6218	0.000
(2)	+++++	+++++	+++++	7488	+++++	7488	0.000
(3)	+++++	+++++	+++++	4887	+++++	4887	0.000
(4)	+++++	+++++	+++++	2191	+++++	2191	0.000
(5)	+++++	+++++	+++++	2731	+++++	2731	0.000
4 Aroclor-1242(1)	14895	13406	12308	11554	10624	12557	13.200
(2)	15940	15326	14418	13613	13761	14612	6.870
(3)	6066	5934	5542	5337	5267	5629	6.326
(4)	8523	7616	7127	6725	6562	7310	10.814
(5)	6824	6256	5999	5817	6020	6183	6.317
5 Aroclor-1248(1)	10594	9810	9017	8885	8199	9301	9.911
(2)	14228	12736	11895	11712	11476	12409	9.043
(3)	12841	12156	11815	11785	12410	12201	3.615
(4)	11297	10503	10013	9956	10333	10420	5.179
(5)	7445	6917	6453	6460	6824	6820	5.977

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m
 Cal Date : 01-Mar-2010 06:19 yip00818
 Curve Type : Average

	100.000	250.000	500.000	1000.000	4000.000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
=====	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254(1)	13496	12213	11744	11466	11117	12007	7.694
(2)	16789	15969	15727	15423	15253	15832	3.802
(3)	20267	19353	19208	19481	19310	19524	2.185
(4)	14142	13669	13487	13772	13976	13809	1.858
(5)	15228	14234	13851	14228	13864	14281	3.932
7 Aroclor-1260(1)	19445	17307	16758	16208	15645	17072	8.574
(2)	25625	23757	23316	22992	22528	23643	5.056
(3)	27164	24948	24176	24127	24442	24971	5.079
(4)	16166	14596	13941	13551	13775	14406	7.345
(5)	15672	14437	13986	13647	14411	14431	5.316
8 Aroclor-1262(1)	+++++	+++++	+++++	12612	+++++	12612	0.000
(2)	+++++	+++++	+++++	15693	+++++	15693	0.000
(3)	+++++	+++++	+++++	19946	+++++	19946	0.000
(4)	+++++	+++++	+++++	17981	+++++	17981	0.000
(5)	+++++	+++++	+++++	37250	+++++	37250	0.000
9 Aroclor-1268(1)	49163	48928	48151	48132	48019	48478	1.086
(2)	55254	54719	54718	54649	53075	54483	1.512
(3)	39937	38826	38121	38191	38006	38616	2.083
(4)	16234	16191	16152	16347	16815	16348	1.657
(5)	114910	115297	111446	111050	107804	112101	2.753
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx	457836	439032	431646	423676	400995	430637	4.841
\$ 12 Decachlorobiphenyl	331580	312081	303953	298909	289924	307289	5.135
=====	=====	=====	=====	=====	=====	=====	=====

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/022210.b/ECD1-B-8082-022210.m
 Cal Date : 01-Mar-2010 07:25 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl1a.i/022210.b/032b3201.d
 Level 2: /chem/ecdl1a.i/022210.b/033b3301.d
 Level 3: /chem/ecdl1a.i/022210.b/034b3401.d
 Level 4: /chem/ecdl1a.i/022210.b/035b3501.d
 Level 5: /chem/ecdl1a.i/022210.b/036b3601.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14790	13406	12599	11956	11198	12790	10.807
(2)	11020	9550	8735	8081	7204	8918	16.336
(3)	6667	5702	5261	4923	4477	5406	15.464
(4)	8469	7466	6811	6206	5627	6916	15.991
(5)	7861	6755	6366	5845	5300	6425	15.123
62 4,4-DDT	++++	++++	++++	100019	++++	100019	0.000
63 4,4-DDE	++++	++++	++++	250510	++++	250510	0.000
64 4,4-DDD	++++	++++	++++	208527	++++	208527	0.000
2 Aroclor-1221(1)	++++	++++	++++	3431	++++	3431	0.000
(2)	++++	++++	++++	2152	++++	2152	0.000
(3)	++++	++++	++++	7328	++++	7328	0.000
3 Aroclor-1232(1)	++++	++++	++++	4920	++++	4920	0.000
(2)	++++	++++	++++	5252	++++	5252	0.000
(3)	++++	++++	++++	3768	++++	3768	0.000
(4)	++++	++++	++++	2699	++++	2699	0.000
(5)	++++	++++	++++	2631	++++	2631	0.000
4 Aroclor-1242(1)	12162	10602	10267	9852	8873	10351	11.615
(2)	8972	7860	7095	6551	5917	7279	16.286
(3)	7172	6222	5595	5138	4714	5768	16.707
(4)	7092	6149	5608	5215	4876	5788	15.018
(5)	8262	7049	6439	5944	5512	6641	16.138
5 Aroclor-1248(1)	9375	8130	7334	6873	6297	7602	15.743
(2)	11273	9902	9059	8609	7955	9360	13.704
(3)	12356	11118	10348	9982	9432	10647	10.657
(4)	14147	12783	11698	11327	10532	12097	11.596
(5)	13387	12032	11069	10719	10286	11499	10.750

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
 Cal Date : 01-Mar-2010 07:25 yip00818
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	7593	6474	5915	5463	4897	6068	16.986
(2)	13079	11278	10543	9836	8978	10743	14.511
(3)	14023	12144	11373	10769	9907	11643	13.419
(4)	18579	16173	15683	15087	13972	15899	10.745
(5)	14693	12059	11530	11303	10291	11975	13.772
7 Aroclor-1260(1)	16156	14478	12627	11898	10869	13206	15.988
(2)	18308	16389	15401	14483	13254	15567	12.332
(3)	14169	12468	11644	10875	10061	11844	13.319
(4)	14677	12787	11930	11182	10430	12201	13.416
(5)	30570	27429	26347	25126	23163	26527	10.405
8 Aroclor-1262(1)	++++	++++	++++	11265	++++	11265	0.000
(2)	++++	++++	++++	15504	++++	15504	0.000
(3)	++++	++++	++++	14070	++++	14070	0.000
(4)	++++	++++	++++	28448	++++	28448	0.000
(5)	++++	++++	++++	19723	++++	19723	0.000
9 Aroclor-1268(1)	41829	39003	36612	35751	33294	37298	8.721
(2)	39747	36378	33891	33096	31474	34917	9.246
(3)	30202	27679	25801	25188	24032	26580	9.093
(4)	14370	12834	11677	11309	10971	12232	11.329
(5)	81955	77588	73073	71224	67792	74326	7.452
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
11 4cmx	335261	308362	295849	285028	262485	297397	9.098
12 Decachlorobiphenyl	252219	220293	206273	196840	181867	211498	12.633

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 0716
 Lab File ID: 007F0701 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13369.087	0.01	-13.1	15.0
(2)	18237.012	17071.873	0.01	-6.4	15.0
(3)	12065.482	10795.908	0.01	-10.5	15.0
(4)	7096.105	6509.966	0.01	-8.3	15.0
(5)	8912.192	8195.079	0.01	-8.0	15.0
Aroclor-1260	17072.421	15796.125	0.01	-7.5	15.0
(2)	23643.449	23677.059	0.01	0.1	15.0
(3)	24971.335	25544.073	0.01	2.3	15.0
(4)	14405.675	14317.174	0.01	-0.6	15.0
(5)	14430.527	14872.154	0.01	3.1	15.0
4cmx	430636.91	382002.17	0.01	-11.3	15.0
Decachlorobiphenyl	307289.35	292662.24	0.01	-4.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 0716
 Lab File ID: 007B0701 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12789.782	12326.850	0.01	-3.6	15.0
(2)	8917.926	7938.108	0.01	-11.0	15.0
(3)	5406.011	4979.771	0.01	-7.9	15.0
(4)	6915.638	6230.724	0.01	-9.9	15.0
(5)	6425.213	5832.725	0.01	-9.2	15.0
Aroclor-1260	13205.642	12060.877	0.01	-8.7	15.0
(2)	15566.814	14694.930	0.01	-5.6	15.0
(3)	11843.501	11019.463	0.01	-7.0	15.0
(4)	12201.193	11492.870	0.01	-5.8	15.0
(5)	26527.172	25715.032	0.01	-3.1	15.0
=====	=====	=====	=====	=====	=====
4cmx	297396.93	270963.99	0.01	-8.9	15.0
Decachlorobiphenyl	211498.34	193157.31	0.01	-8.7	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 1109
 Lab File ID: 028F2801 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	15384.345	13169.276	0.01	-14.4	15.0
(2)	18237.012	17289.347	0.01	-5.2	15.0
(3)	12065.482	10905.248	0.01	-9.6	15.0
(4)	7096.105	6554.028	0.01	-7.6	15.0
(5)	8912.192	8422.130	0.01	-5.5	15.0
Aroclor-1260	17072.421	15899.796	0.01	-6.9	15.0
(2)	23643.449	23818.558	0.01	0.7	15.0
(3)	24971.335	25665.278	0.01	2.8	15.0
(4)	14405.675	14385.508	0.01	-0.1	15.0
(5)	14430.527	14947.141	0.01	3.6	15.0
=====	=====	=====	=====	=====	=====
4cmx	430636.91	385179.50	0.01	-10.6	15.0
Decachlorobiphenyl	307289.35	292258.82	0.01	-4.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 1109
 Lab File ID: 028B2801 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12789.782	11990.846	0.01	-6.2	15.0
(2)	8917.926	7974.881	0.01	-10.6	15.0
(3)	5406.011	4947.172	0.01	-8.5	15.0
(4)	6915.638	6239.258	0.01	-9.8	15.0
(5)	6425.213	5776.751	0.01	-10.1	15.0
Aroclor-1260	13205.642	11991.787	0.01	-9.2	15.0
(2)	15566.814	14645.487	0.01	-5.9	15.0
(3)	11843.501	10992.807	0.01	-7.2	15.0
(4)	12201.193	11362.395	0.01	-6.9	15.0
(5)	26527.172	25460.930	0.01	-4.0	15.0
=====	=====	=====	=====	=====	=====
4cmx	297396.93	272305.99	0.01	-8.4	15.0
Decachlorobiphenyl	211498.34	188586.05	0.01	-10.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 1336
 Lab File ID: 040F4001 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13764.539	0.01	-10.5	15.0
(2)	18237.012	18154.788	0.01	-0.4	15.0
(3)	12065.482	11420.172	0.01	-5.3	15.0
(4)	7096.105	6922.854	0.01	-2.4	15.0
(5)	8912.192	8680.767	0.01	-2.6	15.0
Aroclor-1260	17072.421	16812.956	0.01	-1.5	15.0
(2)	23643.449	25230.609	0.01	6.7	15.0
(3)	24971.335	26897.006	0.01	7.7	15.0
(4)	14405.675	15201.376	0.01	5.5	15.0
(5)	14430.527	15781.088	0.01	9.4	15.0
4cmx	430636.91	403809.90	0.01	-6.2	15.0
Decachlorobiphenyl	307289.35	308010.55	0.01	0.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 1336
 Lab File ID: 040B4001 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12600.686	0.01	-1.5	15.0
(2)	8917.926	8315.450	0.01	-6.8	15.0
(3)	5406.011	5198.089	0.01	-3.8	15.0
(4)	6915.638	6503.895	0.01	-6.0	15.0
(5)	6425.213	6080.815	0.01	-5.4	15.0
Aroclor-1260	13205.642	12582.314	0.01	-4.7	15.0
(2)	15566.814	15395.217	0.01	-1.1	15.0
(3)	11843.501	11563.032	0.01	-2.4	15.0
(4)	12201.193	12015.012	0.01	-1.5	15.0
(5)	26527.172	26964.541	0.01	1.6	15.0
4cmx	297396.93	282477.35	0.01	-5.0	15.0
Decachlorobiphenyl	211498.34	201588.90	0.01	-4.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 1551
 Lab File ID: 051F5101 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13742.030	0.01	-10.7	15.0
(2)	18237.012	18119.076	0.01	-0.6	15.0
(3)	12065.482	11401.559	0.01	-5.5	15.0
(4)	7096.105	6906.918	0.01	-2.7	15.0
(5)	8912.192	8746.177	0.01	-1.9	15.0
Aroclor-1260	17072.421	16830.207	0.01	-1.4	15.0
(2)	23643.449	25281.195	0.01	6.9	15.0
(3)	24971.335	26929.676	0.01	7.8	15.0
(4)	14405.675	15211.828	0.01	5.6	15.0
(5)	14430.527	15812.023	0.01	9.6	15.0
4cmx	430636.91	402924.87	0.01	-6.4	15.0
Decachlorobiphenyl	307289.35	300728.54	0.01	-2.1	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905
 Instrument ID: ECD1A Calibration Date: 02/26/10 Time: 1551
 Lab File ID: 051B5101 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12757.892	0.01	-0.2	15.0
(2)	8917.926	8304.139	0.01	-6.9	15.0
(3)	5406.011	5181.258	0.01	-4.2	15.0
(4)	6915.638	6717.892	0.01	-2.8	15.0
(5)	6425.213	6213.156	0.01	-3.3	15.0
Aroclor-1260	13205.642	12548.873	0.01	-5.0	15.0
(2)	15566.814	15364.459	0.01	-1.3	15.0
(3)	11843.501	11557.506	0.01	-2.4	15.0
(4)	12201.193	12007.109	0.01	-1.6	15.0
(5)	26527.172	26939.299	0.01	1.6	15.0
4cmx	297396.93	280945.76	0.01	-5.5	15.0
Decachlorobiphenyl	211498.34	200670.44	0.01	-5.1	15.0

FORM VII PEST

Data File: /chem/ecdl1a.i/022610.b/003f0301.d
Report Date: 26-Feb-2010 11:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/003f0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 26-FEB-2010 06:34

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m

Meth Date : 26-Feb-2010 11:25 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1	
3.216	3.216	0.000	11917276 1000.00	992	80.00- 120.00	100.00
3.371	3.371	0.000	16097860 1000.00	1020	115.08- 155.08	135.08
3.605	3.605	0.000	20975049 1000.00	1070	156.01- 196.01	176.01
3.767	3.767	0.000	15748810 1000.00	1140	112.15- 152.15	132.15
3.877	3.877	0.000	15315347 1000.00	1070	108.51- 148.51	128.51

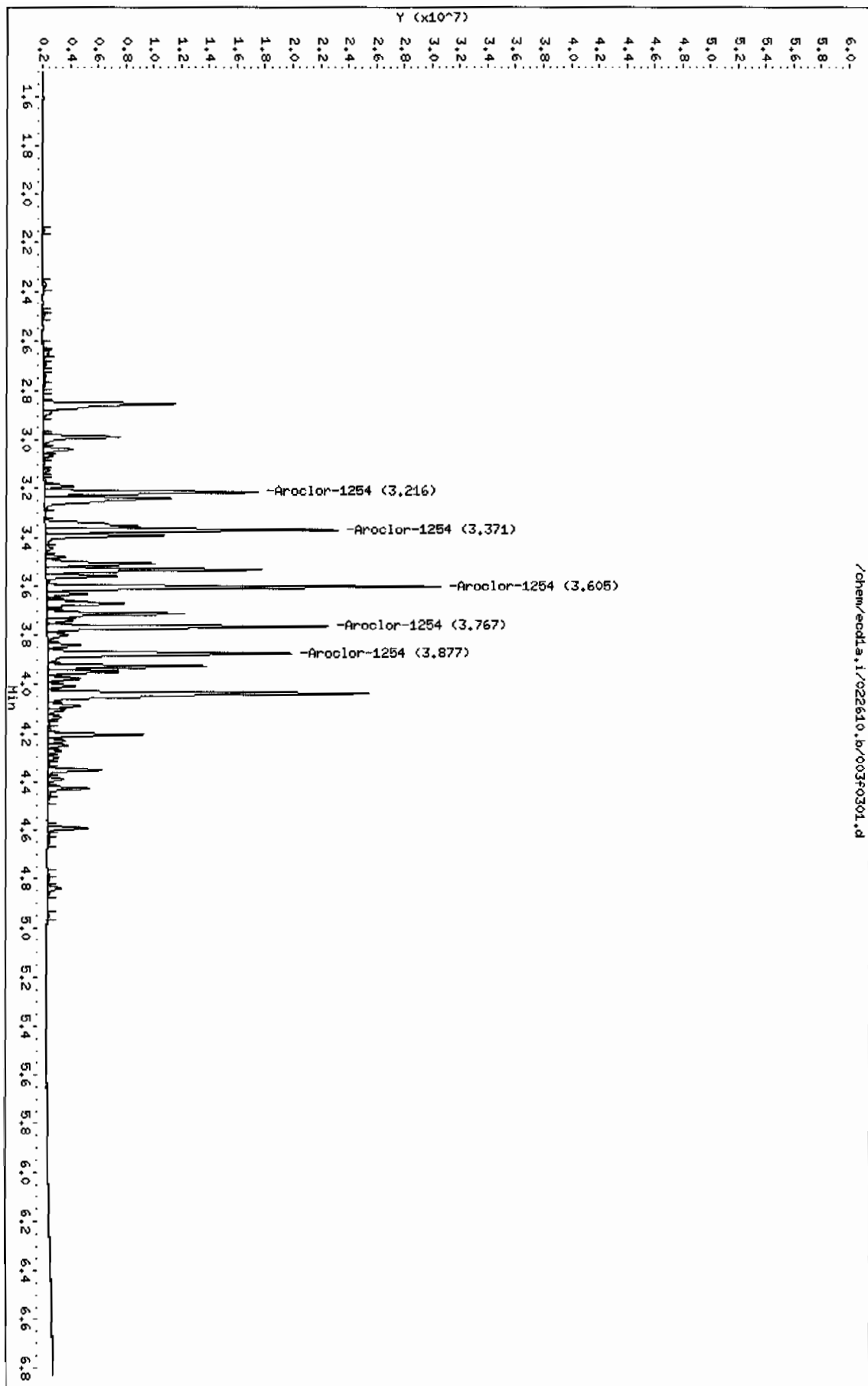
Average of Peak Amounts = 1.06e+03

Data File: /chem/ecdda.i/022610.b/003f0301.d
Date : 26-FEB-2010 06:34
Client ID: AR126401
Sample Info: IMR100219-54

Column phase: CLP1

Instrument: ecdda.i
Operator: YS1
Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/022610.b/003b0301.d
Report Date: 26-Feb-2010 11:29

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/003b0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 26-FEB-2010 06:34

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m

Meth Date : 26-Feb-2010 11:27 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6	Aroclor-1254			CAS #: 11097-69-1		
3.381	3.381	0.000	5749792 1000.00	947 80.00- 120.00	100.00	
3.804	3.804	0.000	10456396 1000.00	973 161.86- 201.86	181.86	
3.920	3.920	0.000	11624252 1000.00	998 182.17- 222.17	202.17	
4.196	4.196	0.000	16360641 1000.00	1030 264.54- 304.54	284.54	
4.332	4.332	0.000	12040670 1000.00	1000 189.41- 229.41	209.41	
Average of Peak Amounts =				991		

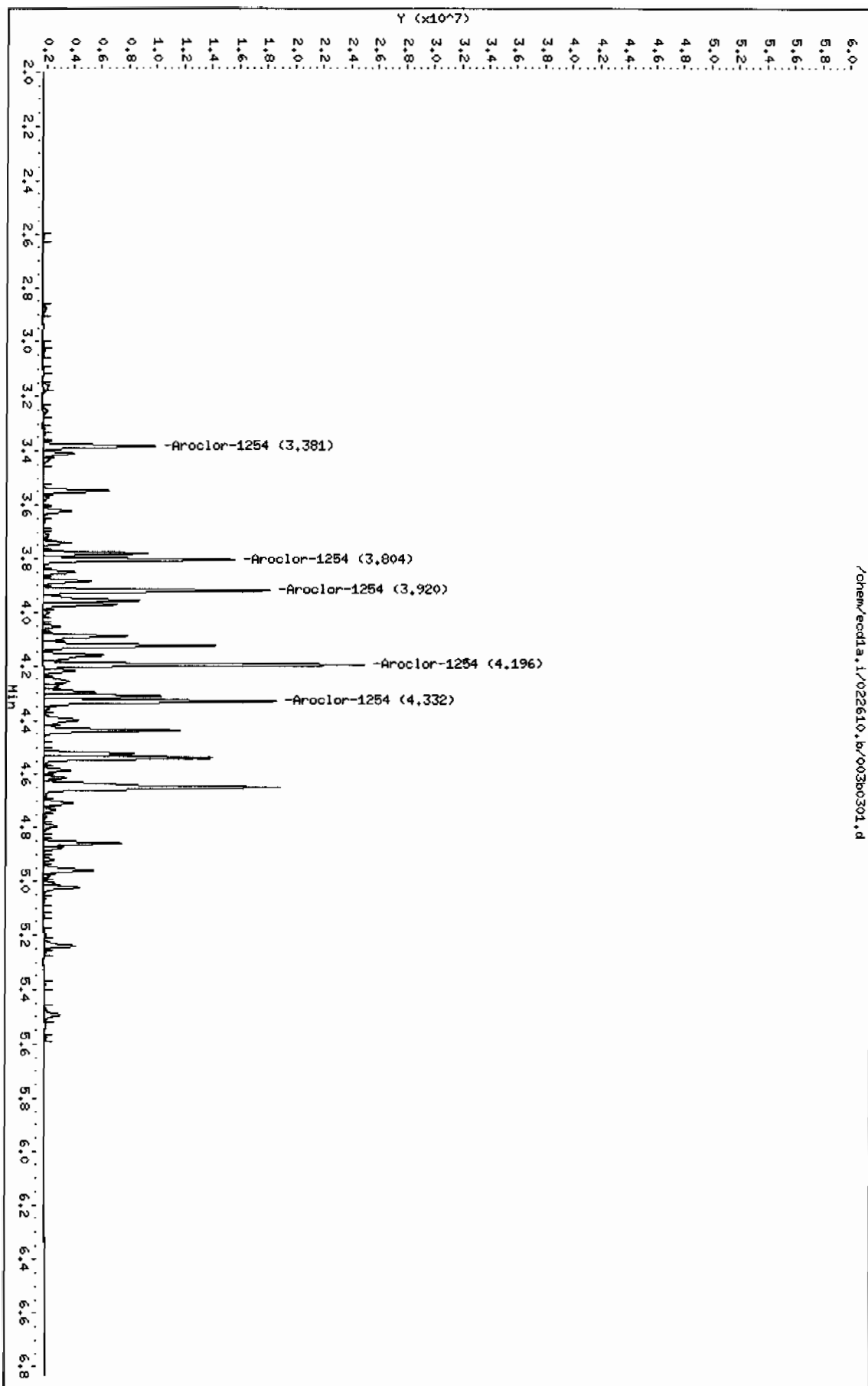
Data File: /chem/ecdda.i/022610.b/00360301.d
Date : 26-FEB-2010 06:34
Client ID: RR125401
Sample Info: 1MR100219-54

Page 1

Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

/chem/ecdda.i/022610.b/00360301.d



Data File: /chem/ecdla.i/022610.b/004f0401.d
Report Date: 26-Feb-2010 11:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/004f0401.d
Lab Smp Id: WAR100219-42 Client Smp ID: AR124201
Inj Date : 26-FEB-2010 06:45
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100219-42
Misc Info :
Comment :
Method : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m
Meth Date : 26-Feb-2010 11:25 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

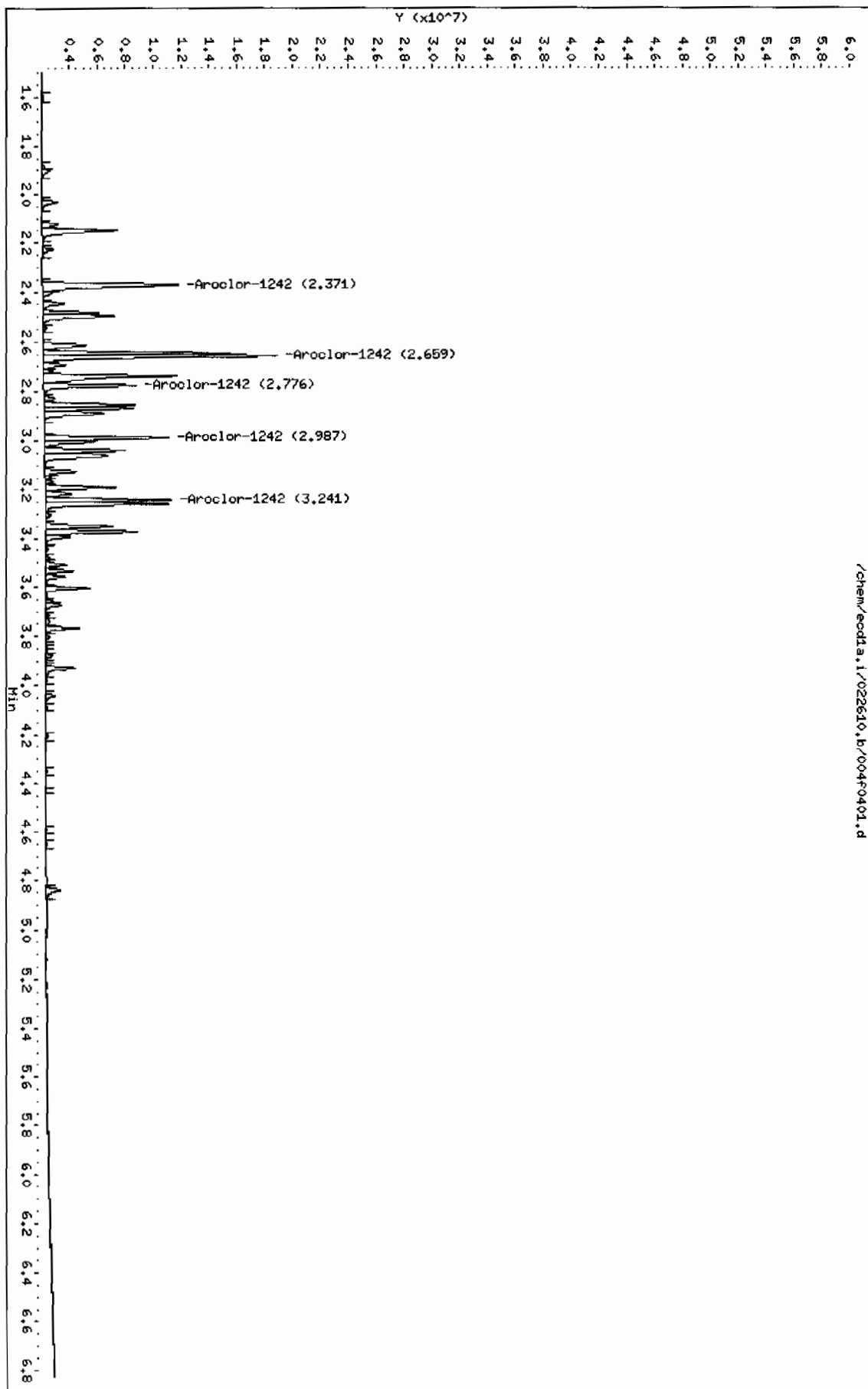
AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
4 Aroclor-1242				CAS #: 53469-21-9		
2.371	2.371	0.000	11206551 1000.00	892 80.00-	120.00	100.00
2.659	2.659	0.000	14319111 1000.00	980 107.77-	147.77	127.77
2.776	2.776	0.000	5530222 1000.00	982 29.35-	69.35	49.35
2.987	2.987	0.000	7114288 1000.00	973 43.48-	83.48	63.48
3.241	3.241	0.000	6797661 1000.00	1100 40.66-	80.66	60.66
Average of Peak Amounts =				985		

Data File: /chem/ecdda.i/022610.b/004f0401.d
Date: 26-FEB-2010 06:45
Client ID: MR124201
Sample Info: 1MR100219-42

Column phase: CLP1

Instrument: ecdda.i
Operator: YSI
Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/022610.b/004b0401.d
Report Date: 26-Feb-2010 11:29

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/004b0401.d
Lab Smp Id: WAR100219-42 Client Smp ID: AR124201
Inj Date : 26-FEB-2010 06:45
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100219-42
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 11:27 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

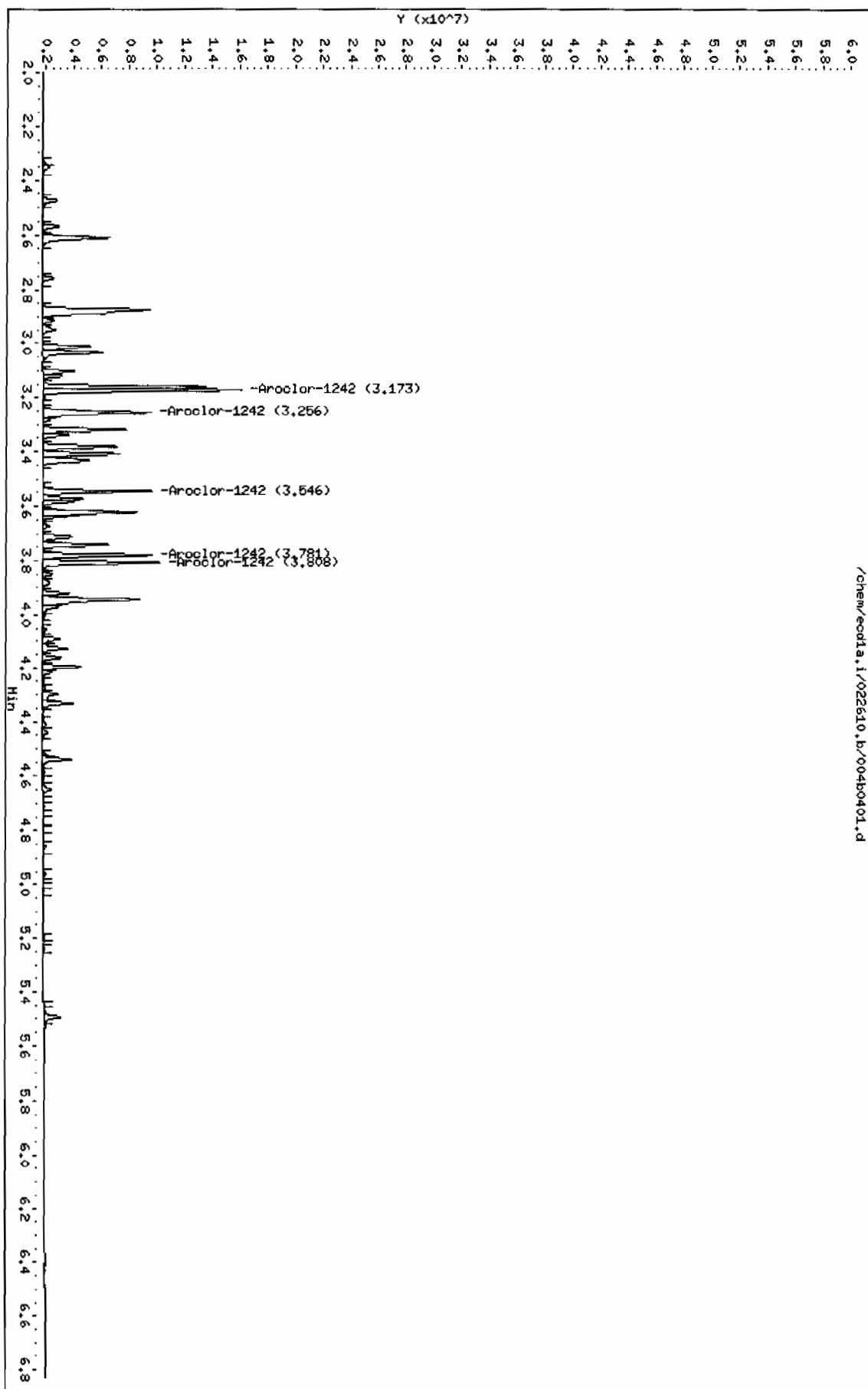
AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====		=====	
4 Aroclor-1242					CAS #: 53469-21-9				
3.173	3.173	0.000	10326752	1000.00	998	80.00-	120.00	100.00	
3.256	3.256	0.000	6851054	1000.00	941	46.34-	86.34	66.34	
3.546	3.546	0.000	5572159	1000.00	966	33.96-	73.96	53.96	
3.781	3.781	0.000	5747261	1000.00	993	35.65-	75.65	55.65	
3.808	3.808	0.000	6490610	1000.00	977	42.85-	82.85	62.85	
Average of Peak Amounts =					975				

Data File: /chem/eod1a.i/022610.b/0040401.d
Date : 26-FEB-2010 06:45
Client ID: AR124201
Sample Info: IAR100219-42

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Column phase: CLP2

Instrument: eod1a.i
Operator: YSI
Column diameter: 0.25



Data File: /chem/ecdl1a.i/022610.b/005f0501.d
Report Date: 26-Feb-2010 11:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/005f0501.d
Lab Smp Id: WAR100223-48 Client Smp ID: AR124801
Inj Date : 26-FEB-2010 06:55
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100223-48
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m
Meth Date : 26-Feb-2010 11:25 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.854	2.854	0.000	9336150 1000.00	1000	80.00- 120.00	100.00
2.987	2.987	0.000	12358805 1000.00	996	112.38- 152.38	132.38
3.241	3.241	0.000	13507620 1000.00	1110	124.68- 164.68	144.68
3.373	3.373	0.000	11134117 1000.00	1070	99.26- 139.26	119.26
3.606	3.606	0.000	7555325 1000.00	1110	60.93- 100.93	80.93

Average of Peak Amounts = 1.06e+03

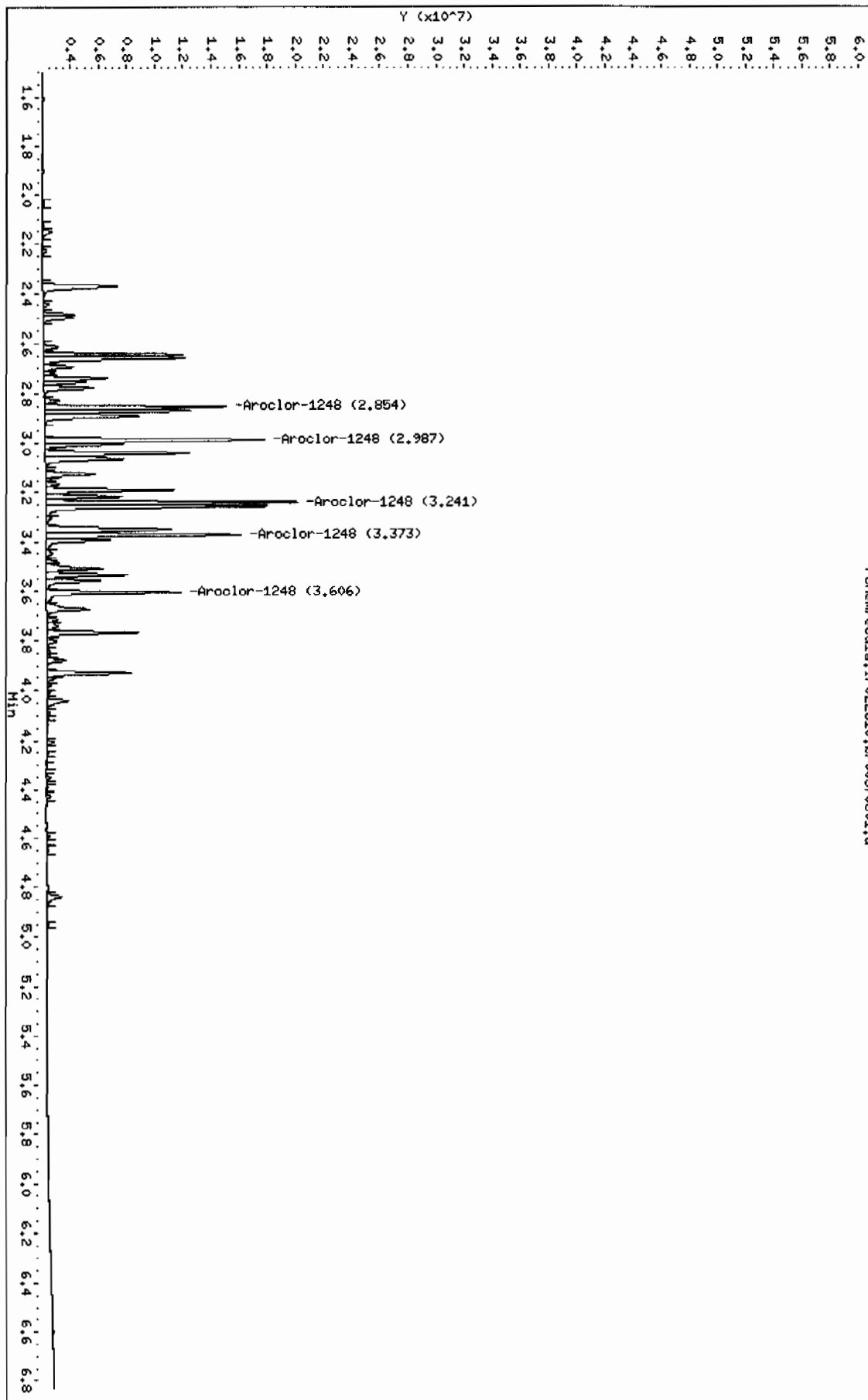
Data File: /chem/eod1a.i/022610.b/005f0501.d
Date: 26-FEB-2010 06:55
Client ID: AR124801
Sample Info: 1HAR100223-48

Column Phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

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/chem/eod1a.i/022610.b/005f0501.d



Data File: /chem/ecdla.i/022610.b/005b0501.d
Report Date: 26-Feb-2010 11:29

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/005b0501.d
Lab Smp Id: WAR100223-48 Client Smp ID: AR124801
Inj Date : 26-FEB-2010 06:55
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100223-48
Misc Info :
Comment :
Method : /chem/ecdla.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 11:27 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.382	3.382	0.000	7456947 1000.00	981 80.00- 120.00	100.00	
3.547	3.547	0.000	9361892 1000.00	1000 105.55- 145.55	125.55	
3.781	3.781	0.000	10892519 1000.00	1020 126.07- 166.07	146.07	
3.808	3.808	0.000	12162267 1000.00	1000 143.10- 183.10	163.10	
3.945	3.945	0.000	11751770 1000.00	1020 137.59- 177.59	157.59	
Average of Peak Amounts =			1.01e+03			

Data File: /chem/eod1a.i/022610.b/005b0501.d

Date : 26-FEB-2010 06:55

Client ID: AR124801

Sample Info: IWR100223-48

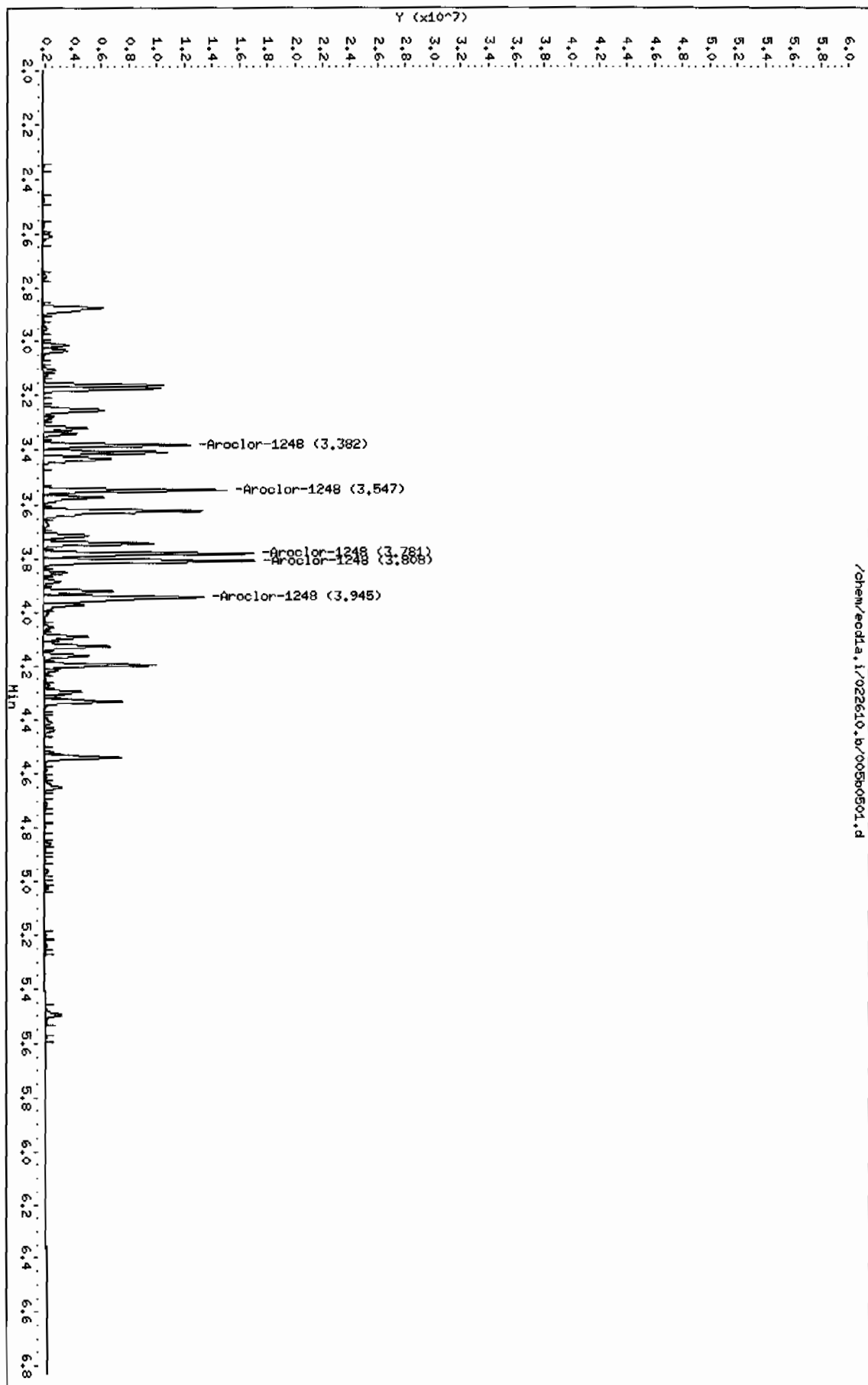
Column phase: CLP2

Instrument: eod1a.i

Operator: YSI

Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/022610.b/007f0701.d
Report Date: 26-Feb-2010 11:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/007f0701.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 26-FEB-2010 07:16

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m

Meth Date : 26-Feb-2010 11:25 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.917	1.917	0.000	38200217	100.000	88.7	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.226	5.226	0.000	29266224	100.000	95.2	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.371	2.371	0.000	13369087	1000.00	869	80.00- 120.00	100.00
2.659	2.659	0.000	17071873	1000.00	936	111.29- 151.29	127.70
2.739	2.739	0.000	10795908	1000.00	895	62.81- 102.81	80.75
2.776	2.776	0.000	6509966	1000.00	917	29.77- 69.77	48.69
2.987	2.987	0.000	8195079	1000.00	920	43.95- 83.95	61.30
Average of Peak Amounts =					907		

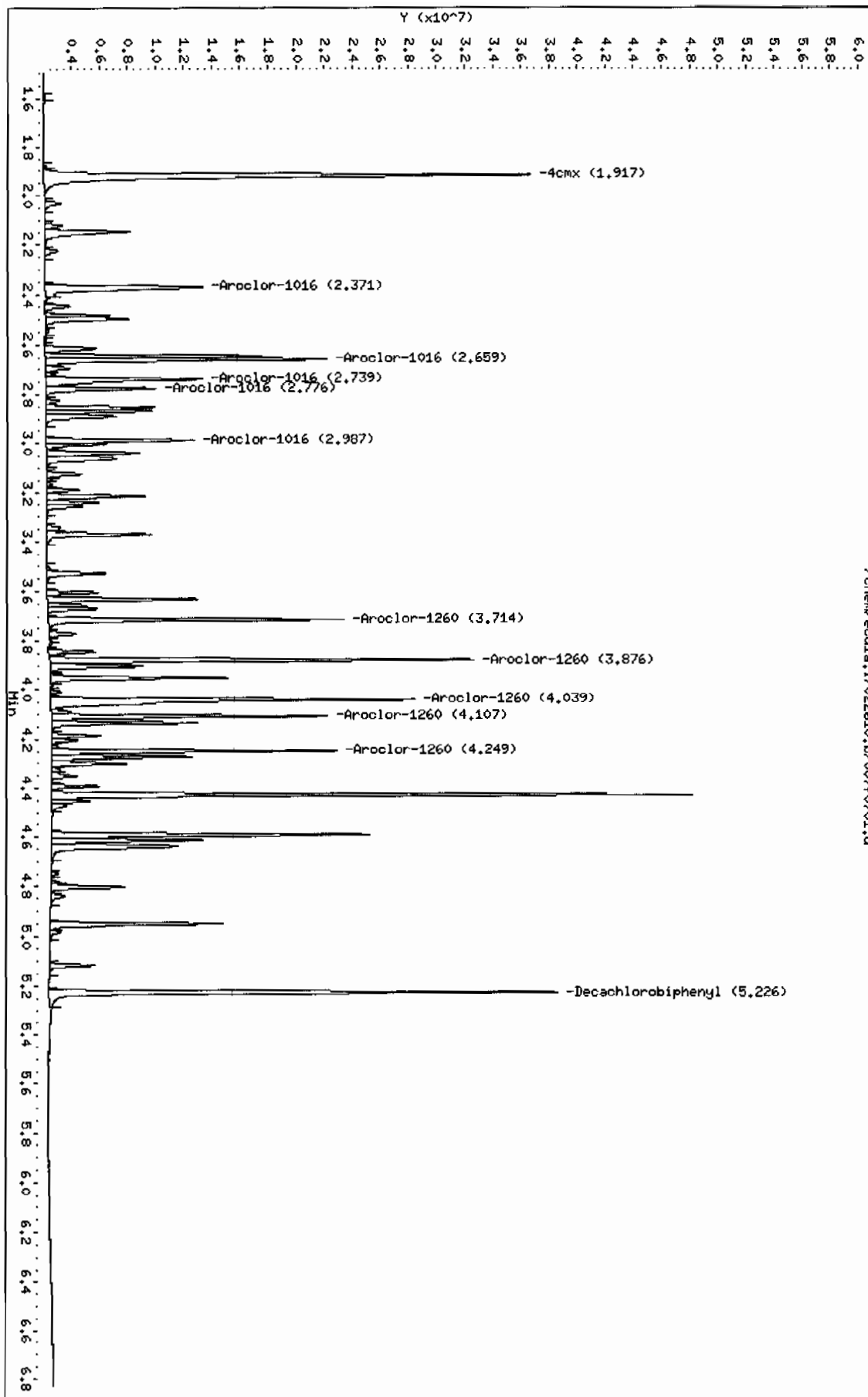
7 Aroclor-1260					CAS #: 11096-82-5		
3.714	3.714	0.000	15796125	1000.00	925	80.00- 120.00	100.00
3.876	3.876	0.000	23677059	1000.00	1000	129.80- 169.80	149.89
4.039	4.039	0.000	25544073	1000.00	1020	141.42- 181.42	161.71
4.107	4.107	0.000	14317174	1000.00	994	70.48- 110.48	90.64
4.249	4.249	0.000	14872154	1000.00	1030	74.01- 114.01	94.15
Average of Peak Amounts =					995		

Data File: /chem/eodla.i/022610.b/0070701.d
Date: 26-FEB-2010 07:16
Client ID: AR166001
Sample Info: INAR100222-60 01

Column phase: CLP1

Instrument: eodla.i
Operator: YSI
Column diameter: 0.25

/chem/eodla.i/022610.b/0070701.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/007b0701.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 26-FEB-2010 07:16

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m

Meth Date : 26-Feb-2010 11:27 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
2.276	2.276	0.000	27096399	100.000	91.1	80.00-	120.00	100.00
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.922	5.922	0.000	19315731	100.000	91.3	80.00-	120.00	100.00
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
3.173	3.173	0.000	12326850	1000.00	964	80.00-	120.00	100.00 (M)
3.256	3.256	0.000	7938108	1000.00	890	46.51-	86.51	64.40
3.319	3.319	0.000	4979771	1000.00	921	21.26-	61.26	40.40
3.547	3.547	0.000	6230724	1000.00	901	32.03-	72.03	50.55
3.623	3.623	0.000	5832725	1000.00	908	28.18-	68.18	56.97
Average of Peak Amounts =					917			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
4.313	4.313	0.000	12060877	1000.00	913	80.00-	120.00	100.00
4.438	4.438	0.000	14694930	1000.00	944	102.13-	142.13	121.84
4.704	4.704	0.000	11019463	1000.00	930	71.67-	111.67	91.37
4.877	4.877	0.000	11492870	1000.00	942	74.75-	114.75	95.29
5.024	5.024	0.000	25715032	1000.00	969	192.32-	232.32	213.21
Average of Peak Amounts =					940			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.i/022610.b/007b0701.d

Date: 26-FEB-2010 07:16

Client ID: AR166001

Sample Info: 1MAR100222-60 01

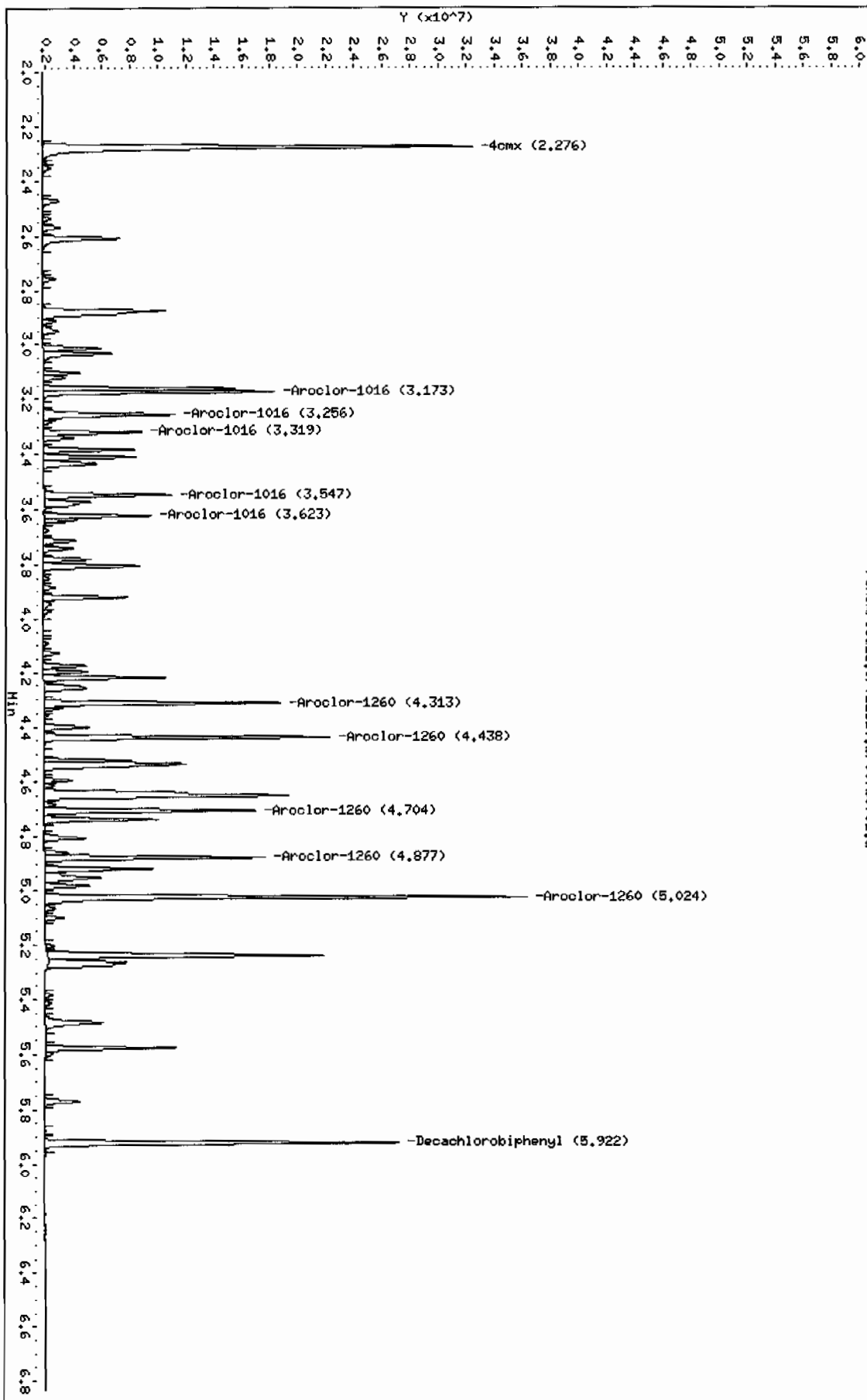
Column phase: CLP2

Instrument: ecdl1.i

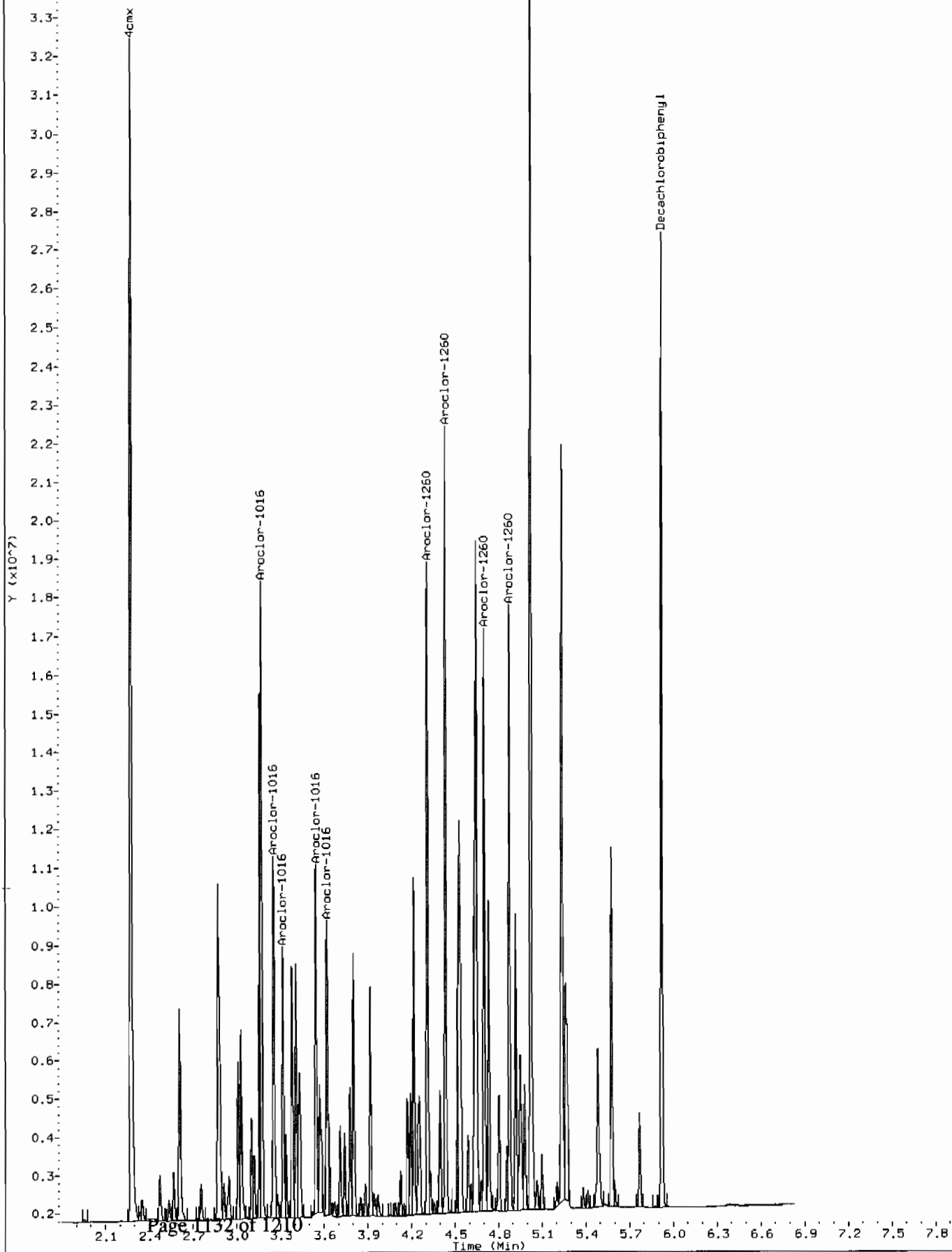
Operator: YSI

Column diameter: 0.25

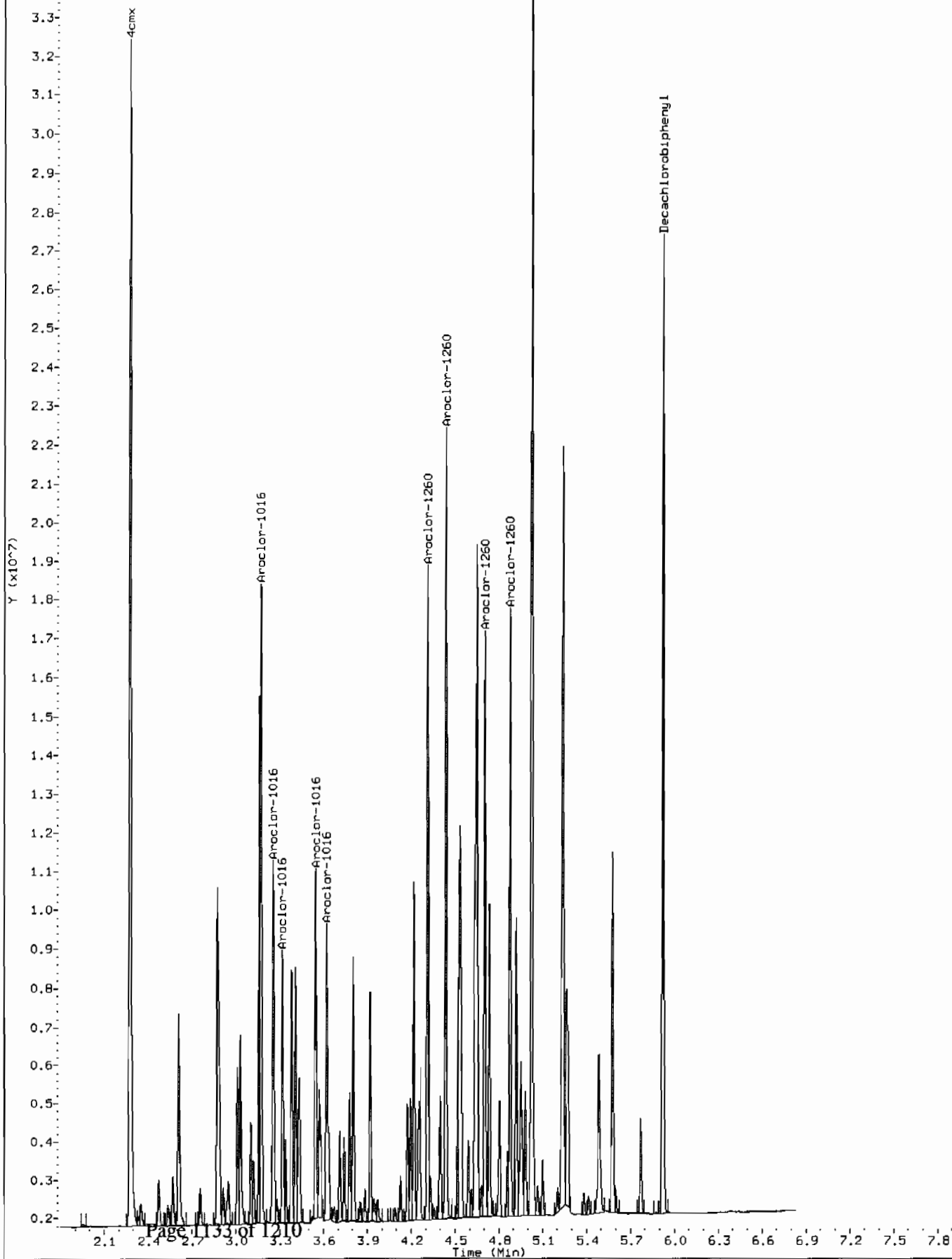
/chem/ecdl1.i/022610.b/007b0701.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/022610.b/007b0701.d
Operator: YS1
Injection Date: 26-FEB-2010 07:16
Instrument: ecd1a.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdla.i/022610.b/Orig-007b0701.d
Operator: YS1
Injection Date: 26-FEB-2010 07:16
Instrument: ecdla.i
Client Sample ID: AR166001



Data File: /chem/ecdla.i/022610.b/008f0801.d
Report Date: 26-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/008f0801.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 26-FEB-2010 07:27

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m

Meth Date : 26-Feb-2010 11:25 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 8

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
3	Aroclor-1232				CAS #: 11141-16-5	
2.371	2.371	0.000	6451908 1000.00	1040	80.00- 120.00	100.00
2.659	2.659	0.000	8300963 1000.00	1110	108.66- 148.66	128.66
2.739	2.739	0.000	5352163 1000.00	1100	62.95- 102.95	82.95
2.854	2.854	0.000	2613047 1000.00	1190	20.50- 60.50	40.50
3.241	3.241	0.000	3485970 1000.00	1280	34.03- 74.03	54.03
Average of Peak Amounts =			1.14e+03			

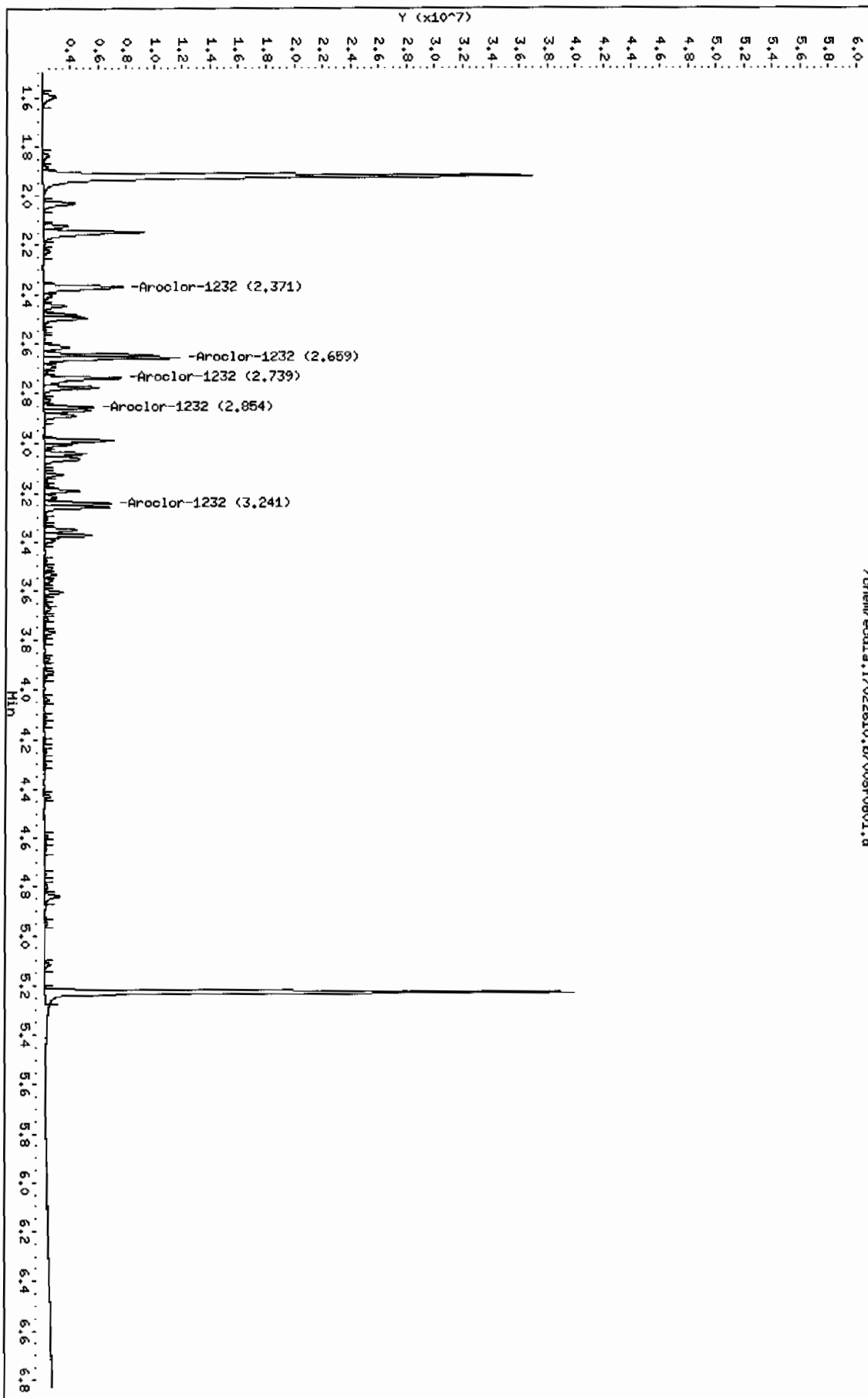
Data File: /chem/eod1a.i/022610.b/008f0801.d
Date : 26-FEB-2010 07:27
Client ID: AR123201
Sample Info: 14PR100104-32

Page 1

Column phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

/chem/eod1a.i/022610.b/008f0801.d



Data File: /chem/ecdla.i/022610.b/008b0801.d
Report Date: 26-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/008b0801.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 26-FEB-2010 07:27
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-32
Misc Info :
Comment :
Method : /chem/ecdla.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 11:27 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.876	2.876	0.000	5264128 1000.00	1070	80.00- 120.00	100.00
3.173	3.173	0.000	6111285 1000.00	1160	96.09- 136.09	116.09
3.256	3.256	0.000	4060631 1000.00	1080	57.14- 97.14	77.14
3.547	3.547	0.000	3036183 1000.00	1120	37.68- 77.68	57.68
3.781	3.781	0.000	3032185 1000.00	1150	37.60- 77.60	57.60
Average of Peak Amounts =			1.12e+03			

Data File: /chem/ecdda.i/022610.b/008b0901.d

Date: 26-FEB-2010 07:27

Client ID: AR123201

Sample Info: 1MAR100104-32

Column phase: CLP2

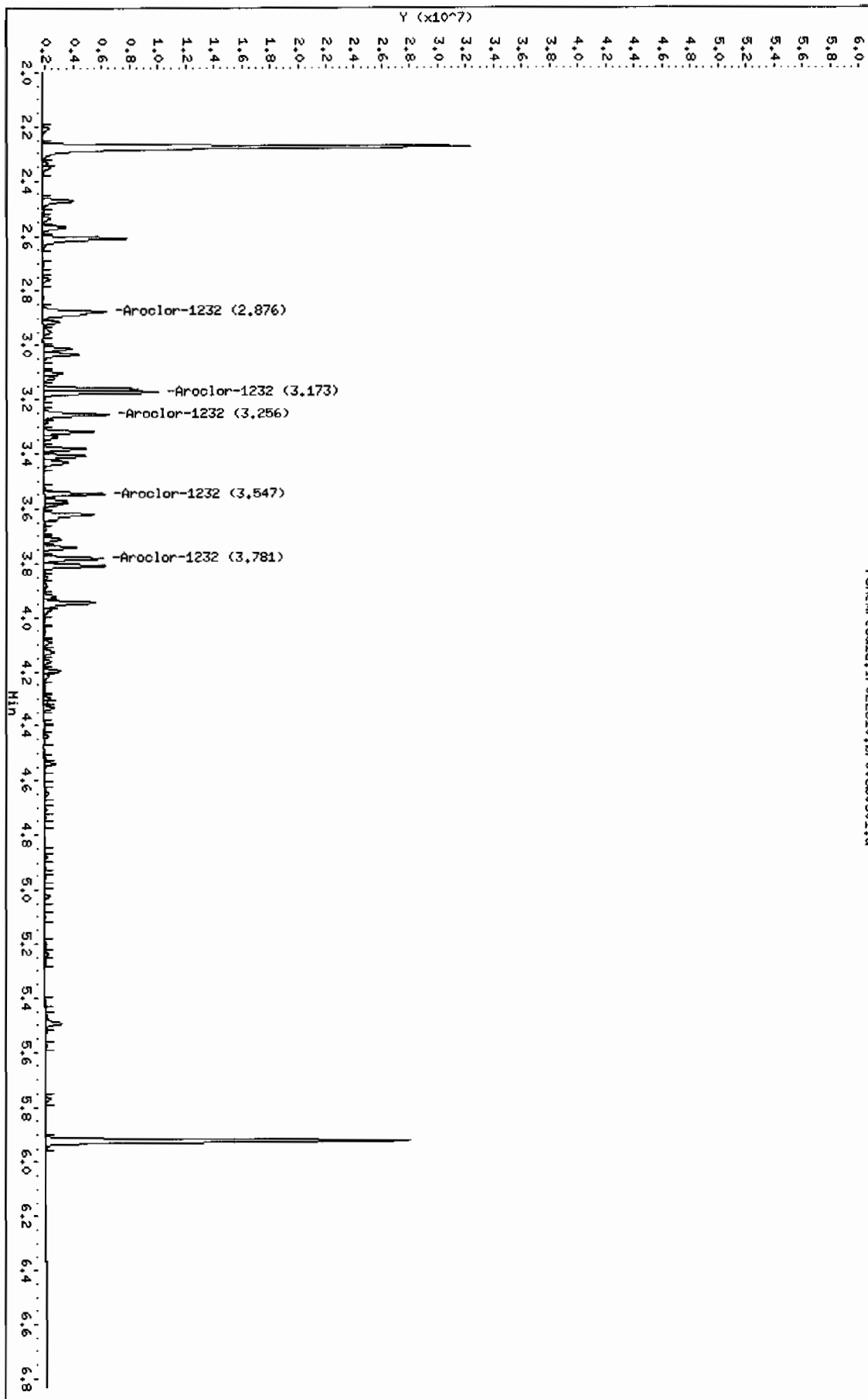
Instrument: ecdda.i

Operator: YS1

Column diameter: 0.25

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/chem/ecdda.i/022610.b/008b0901.d



Data File: /chem/ecd1a.i/022610.b/009f0901.d
Report Date: 26-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/022610.b/009f0901.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 26-FEB-2010 07:37

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecd1a.i/022610.b/ECD1-F-8082-022210.m

Meth Date : 26-Feb-2010 11:25 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 9

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
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2 Aroclor-1221

CAS #: 11104-28-2

2.031	2.031	0.000	4424608 1000.00	1010	80.00- 120.00	100.00
2.124	2.124	0.000	2498229 1000.00	1030	36.46- 76.46	56.46
2.150	2.150	0.000	10538061 1000.00	1010	218.17- 258.17	238.17

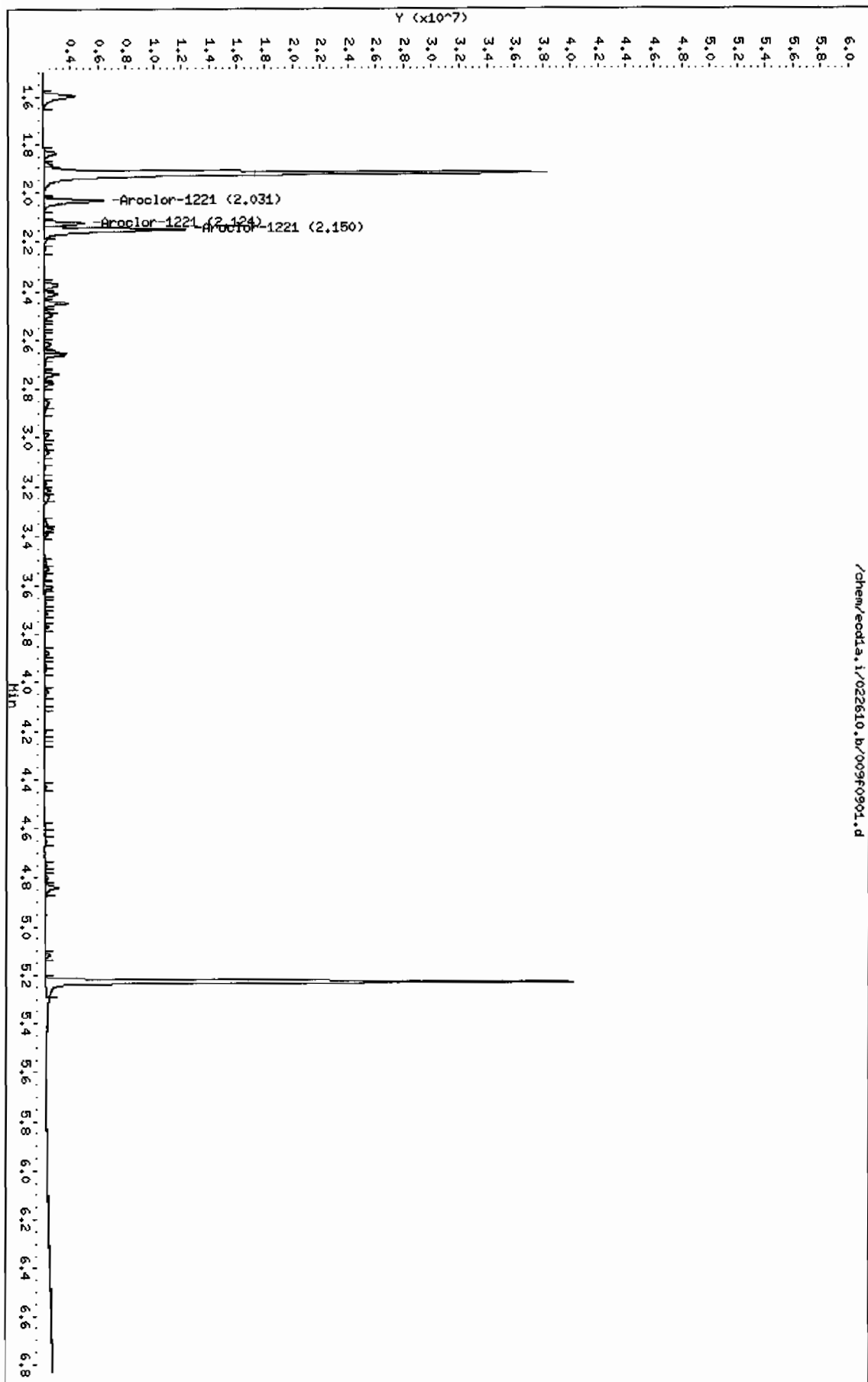
Average of Peak Amounts = 1.02e+03

Data File: /chem/ecda.i/022610.b/009f0901.d
Date : 26-FEB-2010 07:37
Client ID: AR122101
Sample Info: 14AR100104-21

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Column Phase: CLP1

Instrument: ecda.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdla.i/022610.b/009b0901.d
Report Date: 26-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/009b0901.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 26-FEB-2010 07:37
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-21
Misc Info :
Comment :
Method : /chem/ecdla.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 11:27 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.474	2.474	0.000	3421188	997	80.00- 120.00	100.00
2.569	2.569	0.000	2200553	1020	44.32- 84.32	64.32
2.609	2.609	0.000	7647036	1040	203.52- 243.52	223.52
Average of Peak Amounts =			1.02e+03			

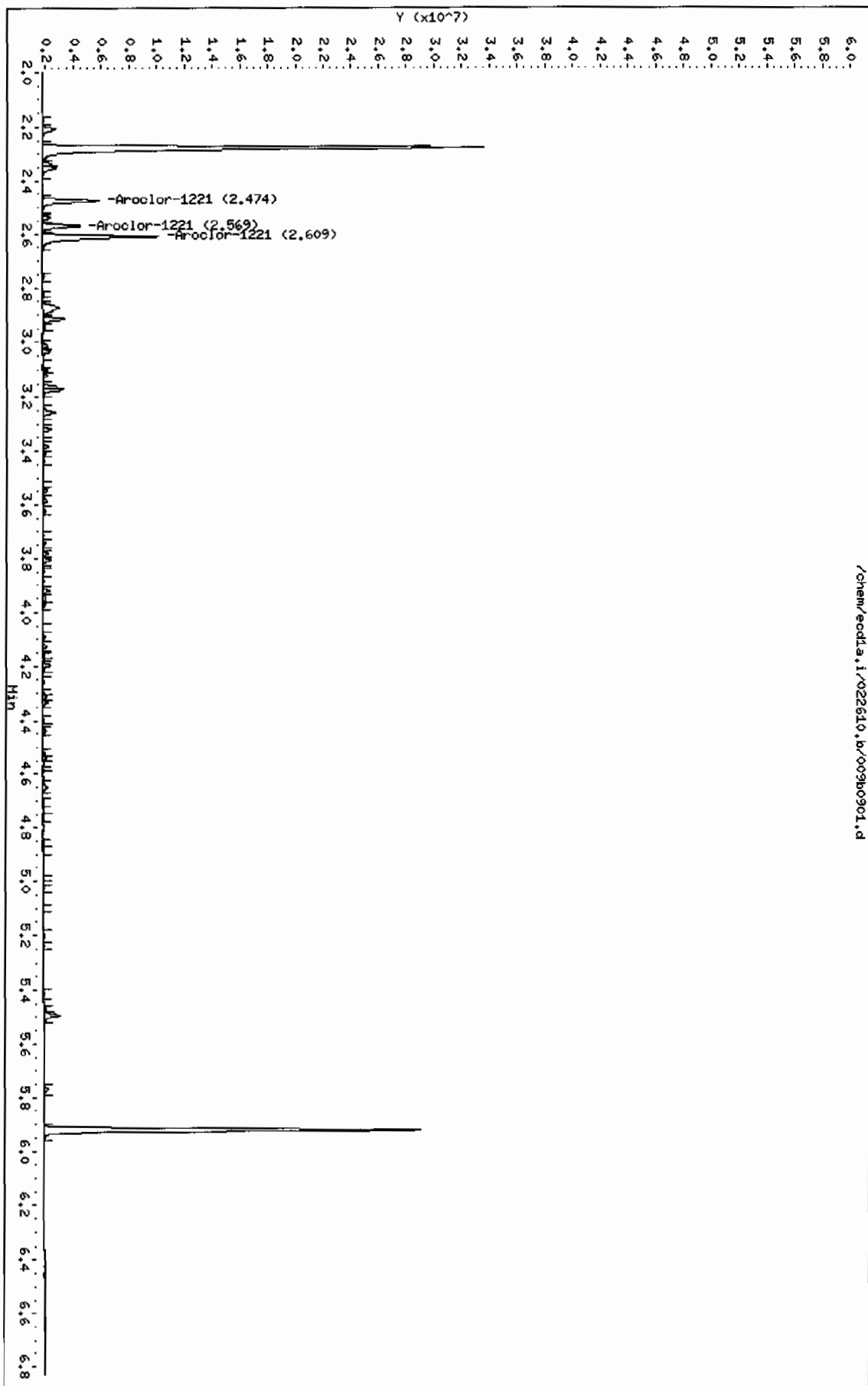
Data File: /chem/eodla.i/022610.b/009b0901.d
Date : 26-FEB-2010 07:37
Client ID: AR122101
Sample Info: 1MAR100104-21

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Column phase: CLP2

Instrument: eodla.i
Operator: YSI
Column diameter: 0.25

/chem/eodla.i/022610.b/009b0901.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/028f2801.d

Lab Smp Id: WAR100222-60 03

Client Smp ID: AR166003

Inj Date : 26-FEB-2010 11:09

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 03

Misc Info :

Comment :

Method : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m

Meth Date : 26-Feb-2010 11:25 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d

Als bottle: 28

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.918	1.917	0.001	38517950	100.000	89.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.223	5.226	-0.003	29225882	100.000	95.1	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.370	2.371	-0.001	13169276	1000.00	856	80.00- 120.00	100.00
2.657	2.659	-0.002	17289347	1000.00	948	111.29- 151.29	131.29
2.737	2.739	-0.002	10905247	1000.00	904	62.81- 102.81	82.81
2.774	2.776	-0.002	6554028	1000.00	924	29.77- 69.77	49.77
2.985	2.987	-0.002	8422129	1000.00	945	43.95- 83.95	63.95
Average of Peak Amounts *					915		

7 Aroclor-1260					CAS #: 11096-82-5		
3.710	3.714	-0.004	15899796	1000.00	931	80.00- 120.00	100.00
3.873	3.876	-0.003	23818557	1000.00	1010	129.80- 169.80	149.80
4.035	4.039	-0.004	25665277	1000.00	1030	141.42- 181.42	161.42
4.104	4.107	-0.003	14385508	1000.00	999	70.48- 110.48	90.48
4.246	4.249	-0.003	14947140	1000.00	1040	74.01- 114.01	94.01
Average of Peak Amounts =					1e+03		

Data File: /chem/ecdl1a.i/022610.b/028f2801.d

Date: 26-FEB-2010 11:09

Client ID: AR166003

Sample Info: IMR100222-60 03

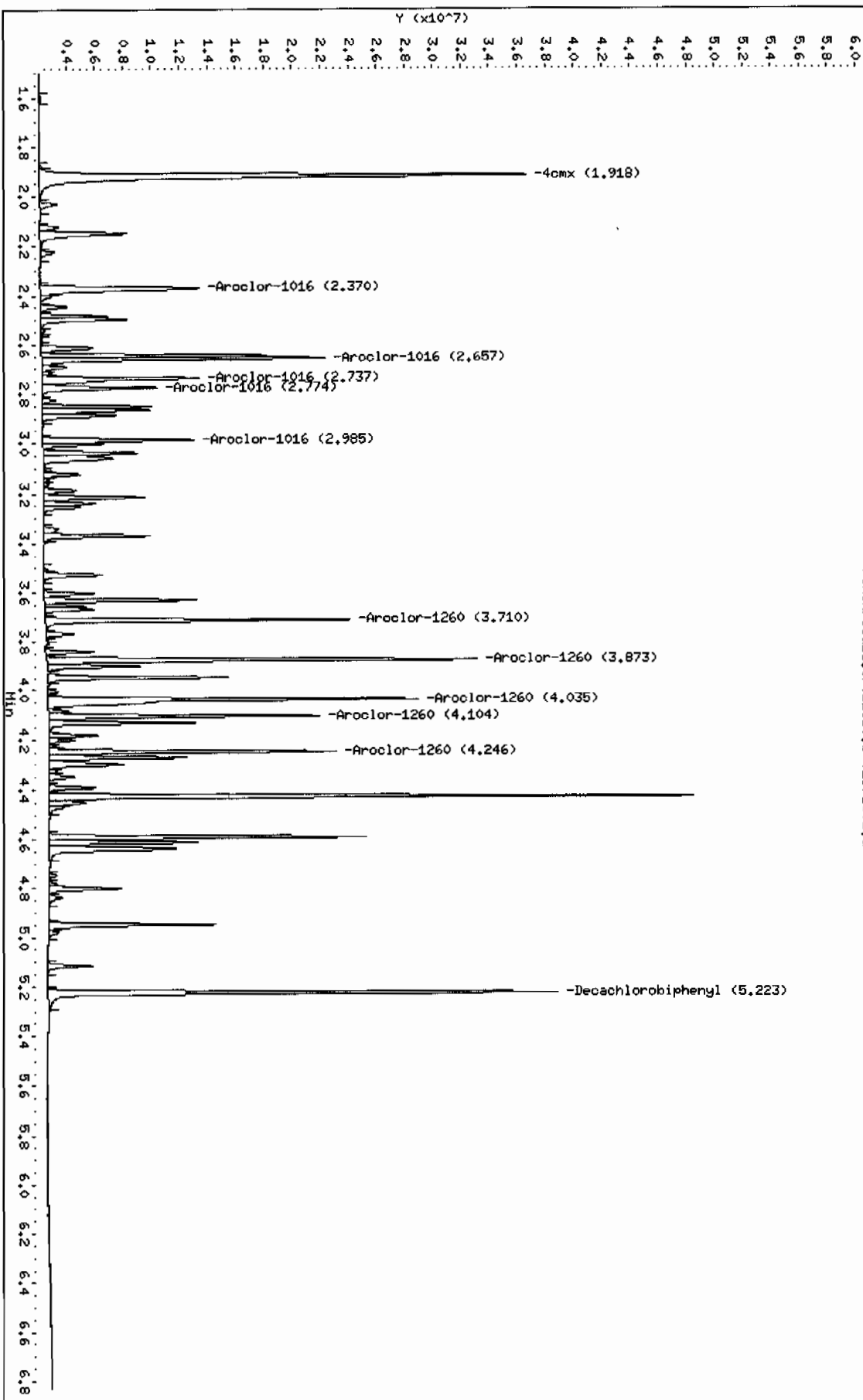
Column phase: CLP1

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl1a.i/022610.b/028f2801.d



Data File: /chem/ecdl1a.i/022610.b/028b2801.d
Report Date: 26-Feb-2010 13:55

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/028b2801.d
Lab Smp Id: WAR100222-60 03 Client Smp ID: AR166003
Inj Date : 26-FEB-2010 11:09
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100222-60 03
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 13:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
<hr/>							
\$ 11 4cmx					CAS #: 877-09-8		
2.277	2.276	0.001	27230599	100.000	91.6	80.00- 120.00	100.00
<hr/>							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.919	5.922	-0.003	18858605	100.000	89.2	80.00- 120.00	100.00
<hr/>							
1 Aroclor-1016					CAS #: 12674-11-2		
3.172	3.173	-0.001	11990846	1000.00	938	80.00- 120.00	100.00 (M)
3.254	3.256	-0.002	7974881	1000.00	894	45.99- 85.99	66.51
3.318	3.319	-0.001	4947172	1000.00	915	21.25- 61.25	41.26
3.544	3.547	-0.003	6239258	1000.00	902	31.62- 71.62	52.03
3.620	3.623	-0.003	5776751	1000.00	899	38.42- 78.42	48.18
Average of Peak Amounts =					910		
<hr/>							
7 Aroclor-1260					CAS #: 11096-82-5		
4.311	4.313	-0.002	11991787	1000.00	908	80.00- 120.00	100.00
4.435	4.438	-0.003	14645487	1000.00	941	102.36- 142.36	122.13
4.701	4.704	-0.003	10992807	1000.00	928	71.90- 111.90	91.67
4.875	4.877	-0.002	11362395	1000.00	931	75.49- 115.49	94.75
5.022	5.024	-0.002	25460930	1000.00	960	194.31- 234.31	212.32
Average of Peak Amounts =					934		

Data File: /chem/ecdl1a.i/022610.b/028b2801.d
Report Date: 26-Feb-2010 13:55

Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eodla.i/022610.b/028b2801.d

Date: 26-FEB-2010 11:09

Client ID: AR166003

Sample Info: 14AR100222-60 03

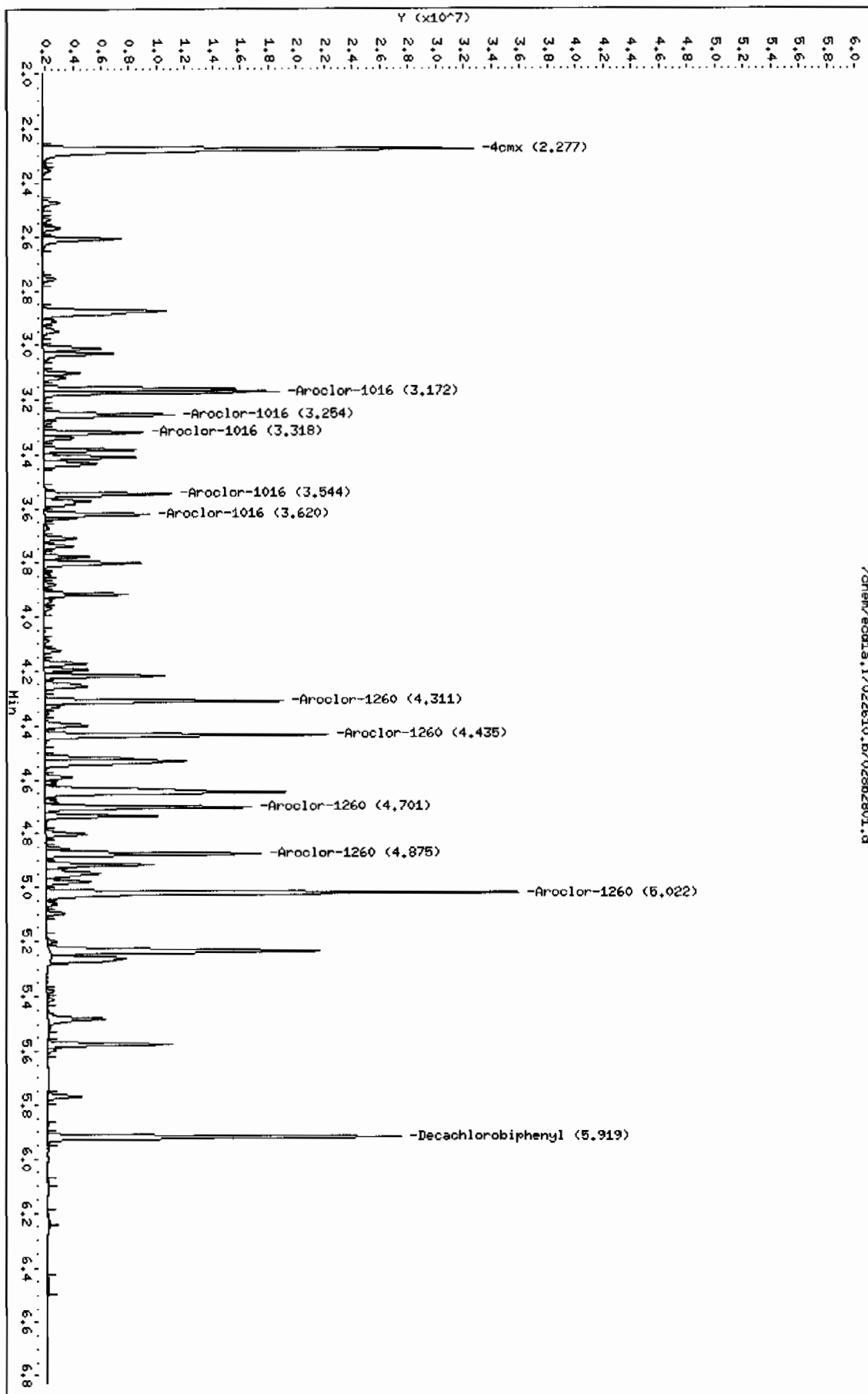
Column phase: CLP2

Instrument: eodla.i

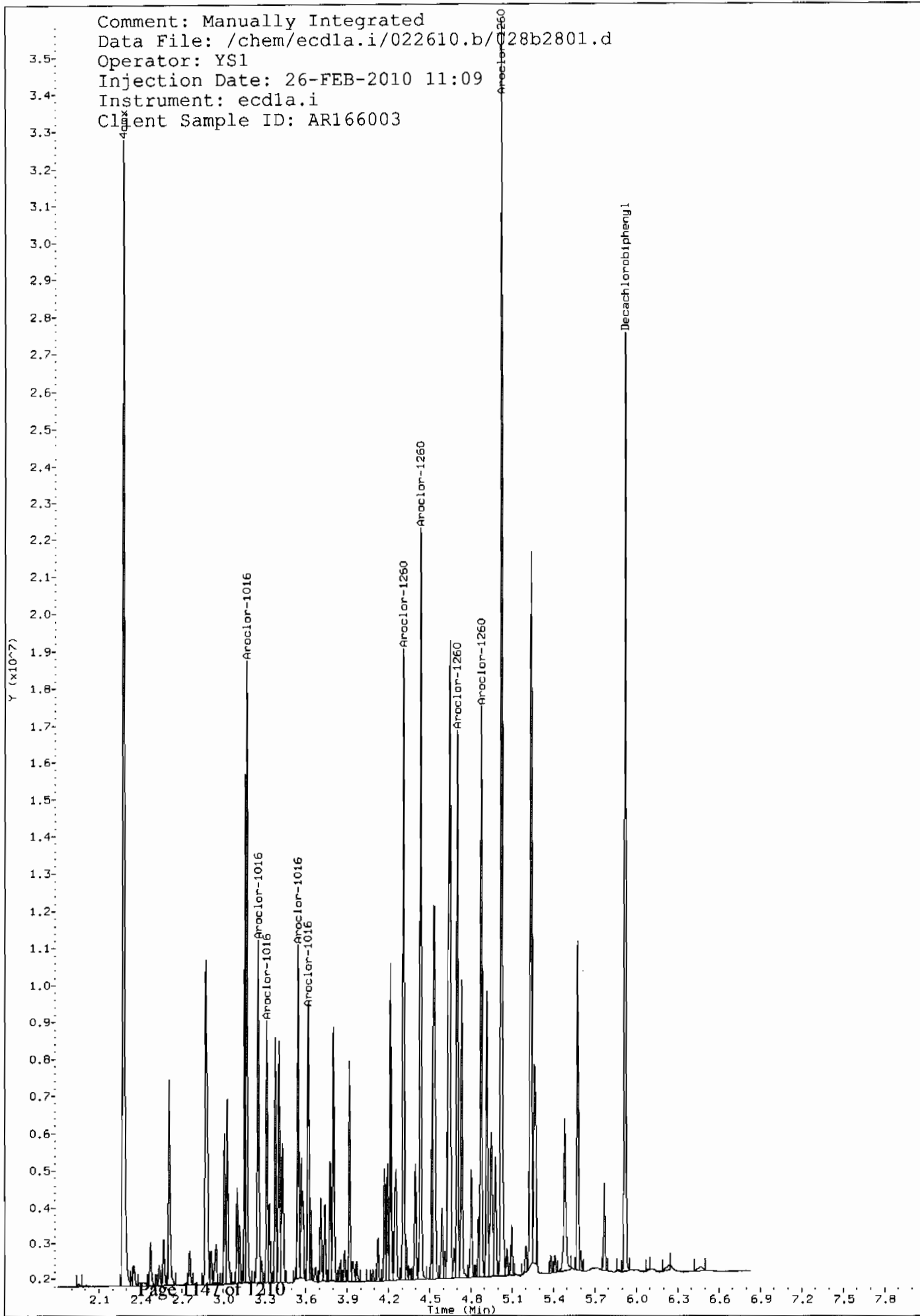
Operator: YSL

Column diameter: 0.25

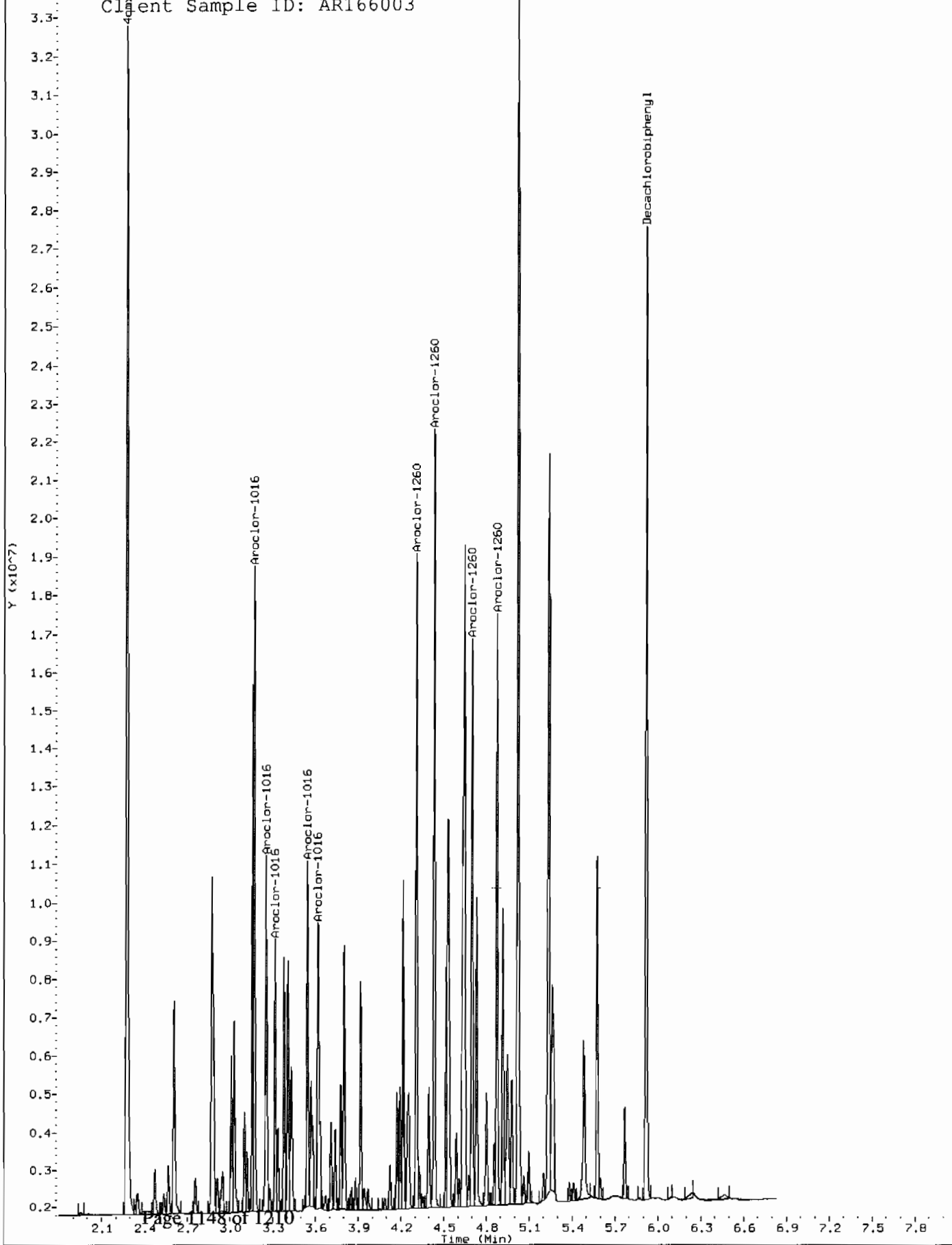
Page 1



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/022610.b/028b2801.d
Operator: YS1
Injection Date: 26-FEB-2010 11:09
Instrument: ecdl1a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecdl1a.i/022610.b/Orig-028b2801.d
Operator: YS1
Injection Date: 26-FEB-2010 11:09
Instrument: ecd1a.i
Client Sample ID: AR166003



Data File: /chem/ecdla.i/022610.b/040f4001.d
 Report Date: 26-Feb-2010 14:00

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/040f4001.d
 Lab Smp Id: WAR100222-60 04 Client Smp ID: AR166004
 Inj Date : 26-FEB-2010 13:36
 Operator : YSl Inst ID: ecdla.i
 Smp Info : |WAR100222-60 04
 Misc Info :
 Comment :
 Method : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m
 Meth Date : 26-Feb-2010 14:00 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 40 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpc1p1

AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.917	1.917	0.000	40380990	100.000	93.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.224	5.226	-0.002	30801055	100.000	100	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.369	2.371	-0.002	13764539	1000.00	895	80.00- 120.00	100.00
2.657	2.659	-0.002	18154788	1000.00	995	111.90- 151.90	131.90
2.738	2.739	-0.001	11420171	1000.00	946	62.97- 102.97	82.97
2.774	2.776	-0.002	6922853	1000.00	976	30.29- 70.29	50.29
2.985	2.987	-0.002	8680766	1000.00	974	43.07- 83.07	63.07
Average of Peak Amounts =					957		

7 Aroclor-1260					CAS #: 11096-82-5		
3.712	3.714	-0.002	16812956	1000.00	985	80.00- 120.00	100.00
3.874	3.876	-0.002	25230609	1000.00	1070	130.07- 170.07	150.07
4.036	4.039	-0.003	26897006	1000.00	1080	139.98- 179.98	159.98
4.104	4.107	-0.003	15201376	1000.00	1060	70.41- 110.41	90.41
4.248	4.249	-0.001	15781088	1000.00	1090	73.86- 113.86	93.86
Average of Peak Amounts =					1.06e+03		

Data File: /chem/ecdl.a.i/022610.b/040f4001.d

Date: 26-FEB-2010 13:36

Client ID: AR166004

Sample Info: IWR100222-60 04

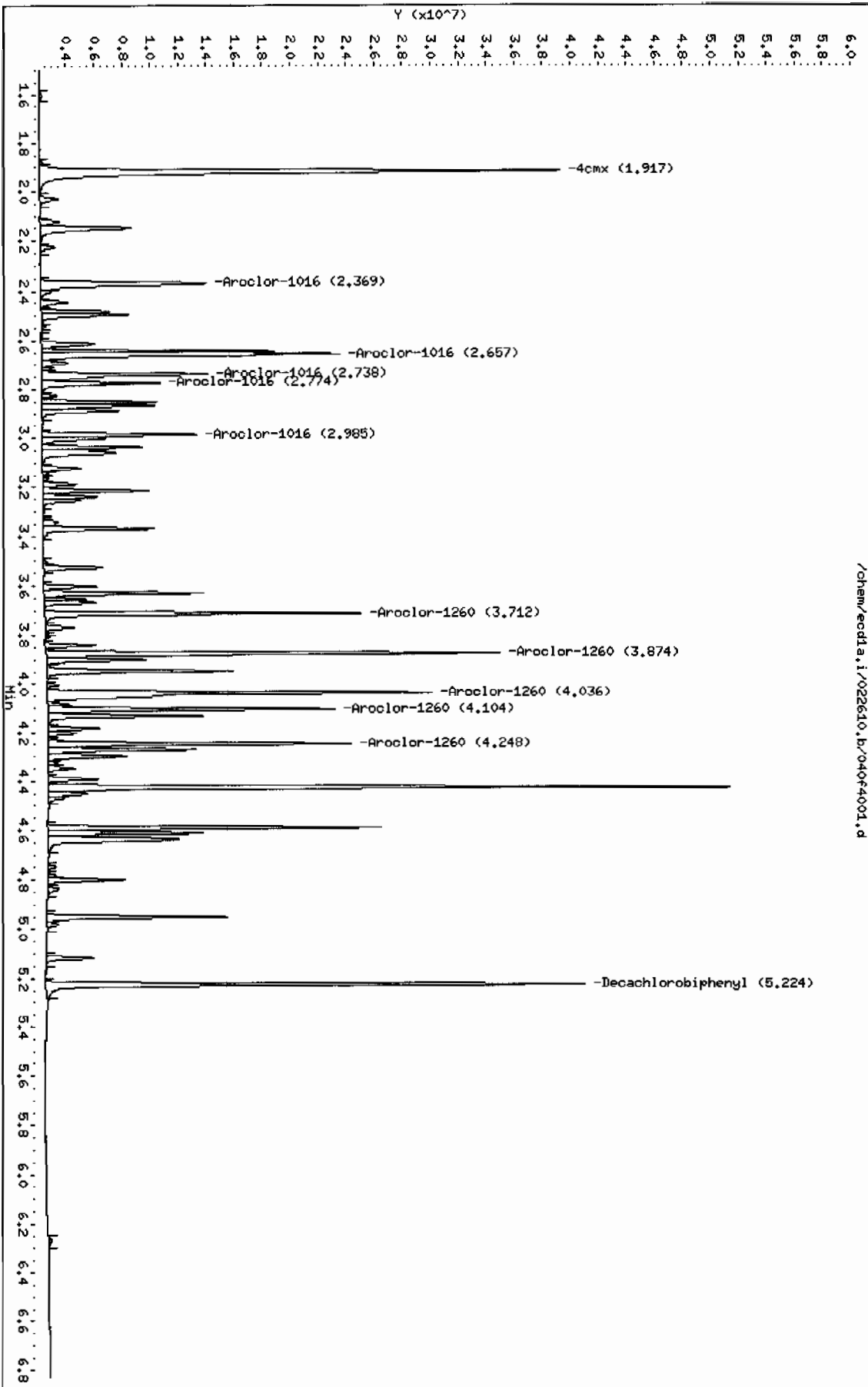
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

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Data File: /chem/ecdl1a.i/022610.b/040b4001.d
Report Date: 26-Feb-2010 14:02

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/040b4001.d
Lab Smp Id: WAR100222-60 04 Client Smp ID: AR166004
Inj Date : 26-FEB-2010 13:36
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100222-60 04
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 14:00 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.276	2.276	0.000	28247735	100.000	95.0	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.921	5.922	-0.001	20158890	100.000	95.3	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
3.172	3.173	-0.001	12600686	1000.00	985	80.00- 120.00	100.00 (M)
3.254	3.256	-0.002	8315450	1000.00	932	45.99- 85.99	65.99
3.318	3.319	-0.001	5198089	1000.00	962	21.25- 61.25	41.25
3.545	3.547	-0.002	6503895	1000.00	940	31.62- 71.62	51.62
3.620	3.623	-0.003	6080814	1000.00	946	38.42- 78.42	58.42
Average of Peak Amounts =					953		

7 Aroclor-1260					CAS #: 11096-82-5		
4.312	4.313	-0.001	12582314	1000.00	953	80.00- 120.00	100.00
4.436	4.438	-0.002	15395217	1000.00	989	102.36- 142.36	122.36
4.702	4.704	-0.002	11563032	1000.00	976	71.90- 111.90	91.90
4.875	4.877	-0.002	12015012	1000.00	985	75.49- 115.49	95.49
5.023	5.024	-0.001	26964541	1000.00	1020	194.31- 234.31	214.31
Average of Peak Amounts =					984		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl.a.i/022610.b/040b4001.d

Date: 26-FEB-2010 13:36

Client ID: AR166004

Sample Info: 14AR100222-60 04

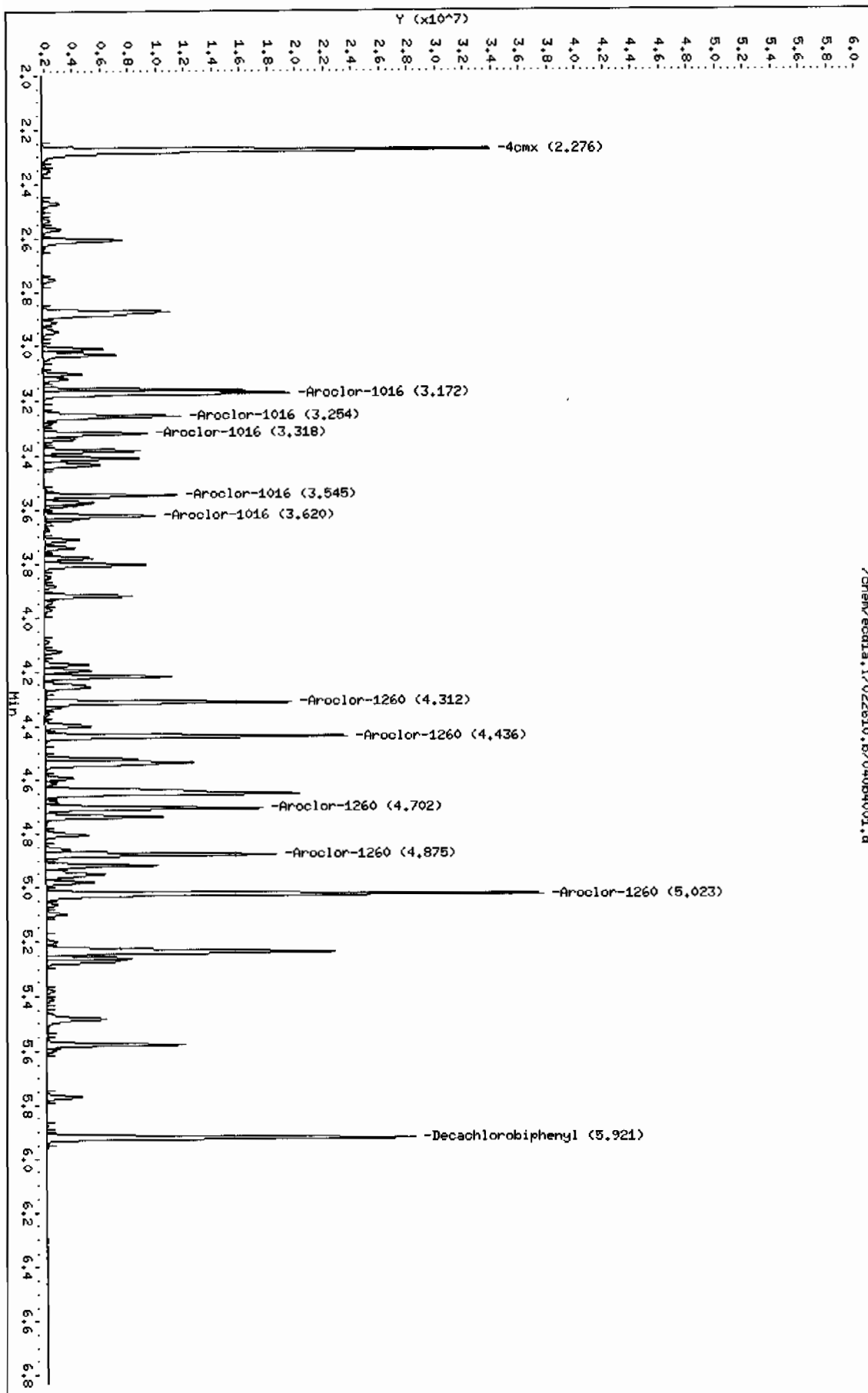
Column phase: CLP2

Instrument: ecdl.a.i

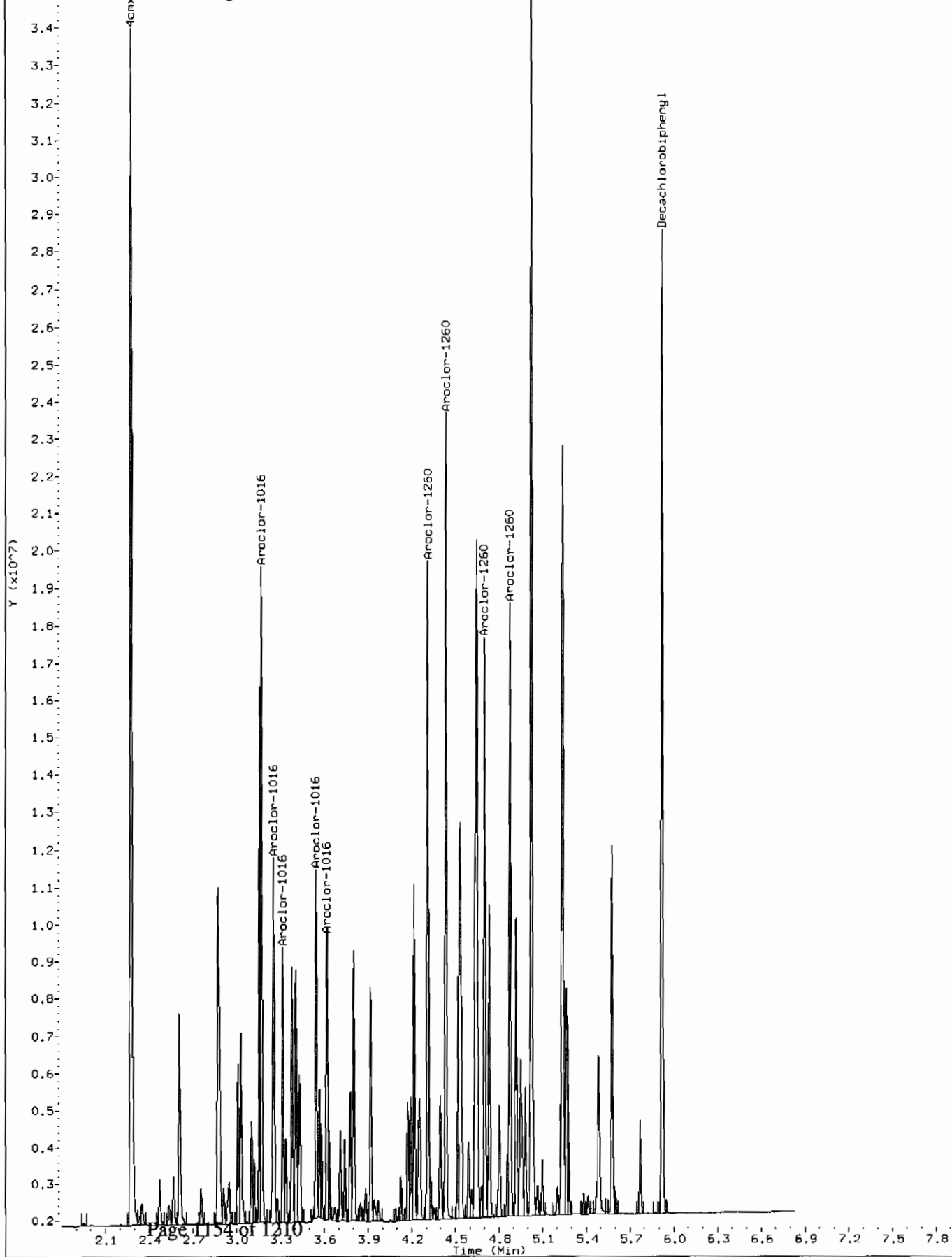
Operator: YSL

Column diameter: 0.25

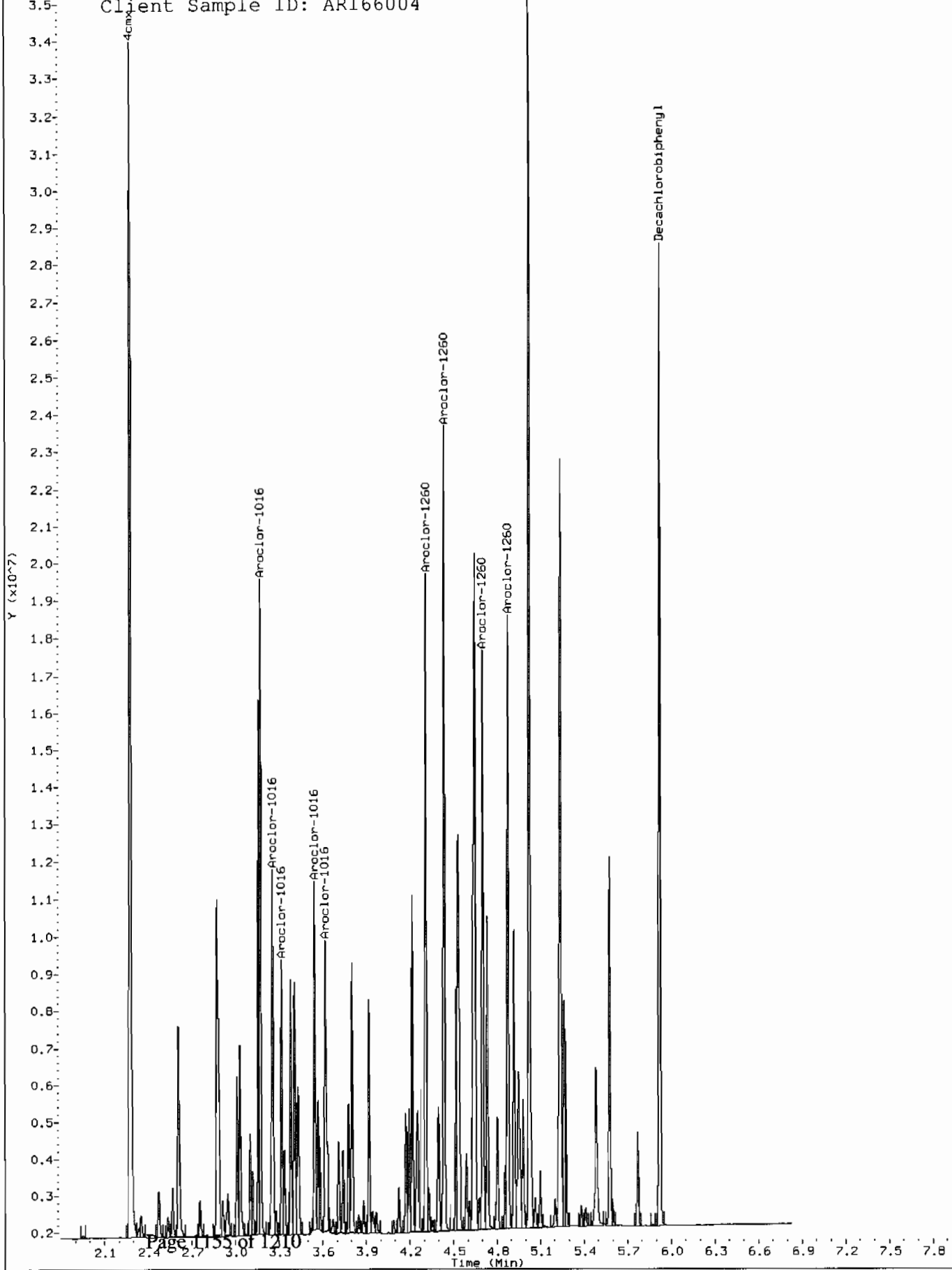
Page 1



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/022610.b/40b4001.d
Operator: YS1
Injection Date: 26-FEB-2010 13:36
Instrument: ecd1a.i
Client Sample ID: AR166004



Comment: Before manual integration
Data File: /chem/ecdl1a.i/022610.b/Orig-040b4001.d
Operator: YS1
Injection Date: 26-FEB-2010 13:36
Instrument: ecdl1a.i
Client Sample ID: AR166004



Data File: /chem/ecdl1a.i/022610.b/051f5101.d
Report Date: 01-Mar-2010 07:09

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/051f5101.d
Lab Smp Id: WAR100222-60 05 Client Smp ID: AR166005
Inj Date : 26-FEB-2010 15:51
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100222-60 05
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m
Meth Date : 01-Mar-2010 06:19 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 51 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx				CAS #: 877-09-8		
1.917	1.917	0.000	40292487 100.000	93.6	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.225	5.226	-0.001	30072854 100.000	97.9	80.00- 120.00	100.00
<hr/>						
1 Aroclor-1016				CAS #: 12674-11-2		
2.371	2.371	0.000	13742029 1000.00	893	80.00- 120.00	100.00
2.657	2.659	-0.002	18119076 1000.00	994	108.62- 148.62	131.85
2.737	2.739	-0.002	11401559 1000.00	945	62.93- 102.93	82.97
2.775	2.776	-0.001	6906918 1000.00	973	30.56- 70.56	50.26
2.986	2.987	-0.001	8746177 1000.00	981	44.73- 84.73	63.65
Average of Peak Amounts =				957		
<hr/>						
7 Aroclor-1260				CAS #: 11096-82-5		
3.712	3.714	-0.002	16830207 1000.00	986	80.00- 120.00	100.00
3.875	3.876	-0.001	25281195 1000.00	1070	129.59- 169.59	150.21
4.037	4.039	-0.002	26929676 1000.00	1080	141.00- 181.00	160.01
4.105	4.107	-0.002	15211827 1000.00	1060	70.55- 110.55	90.38
4.247	4.249	-0.002	15812022 1000.00	1100	73.92- 113.92	93.95
Average of Peak Amounts =				1.06e+03		

Data File: /chem/eodla.i/022610.b/051f5101.d

Date: 26-FEB-2010 15:51

Client ID: AR16005

Sample Info: 114R100222-60 05

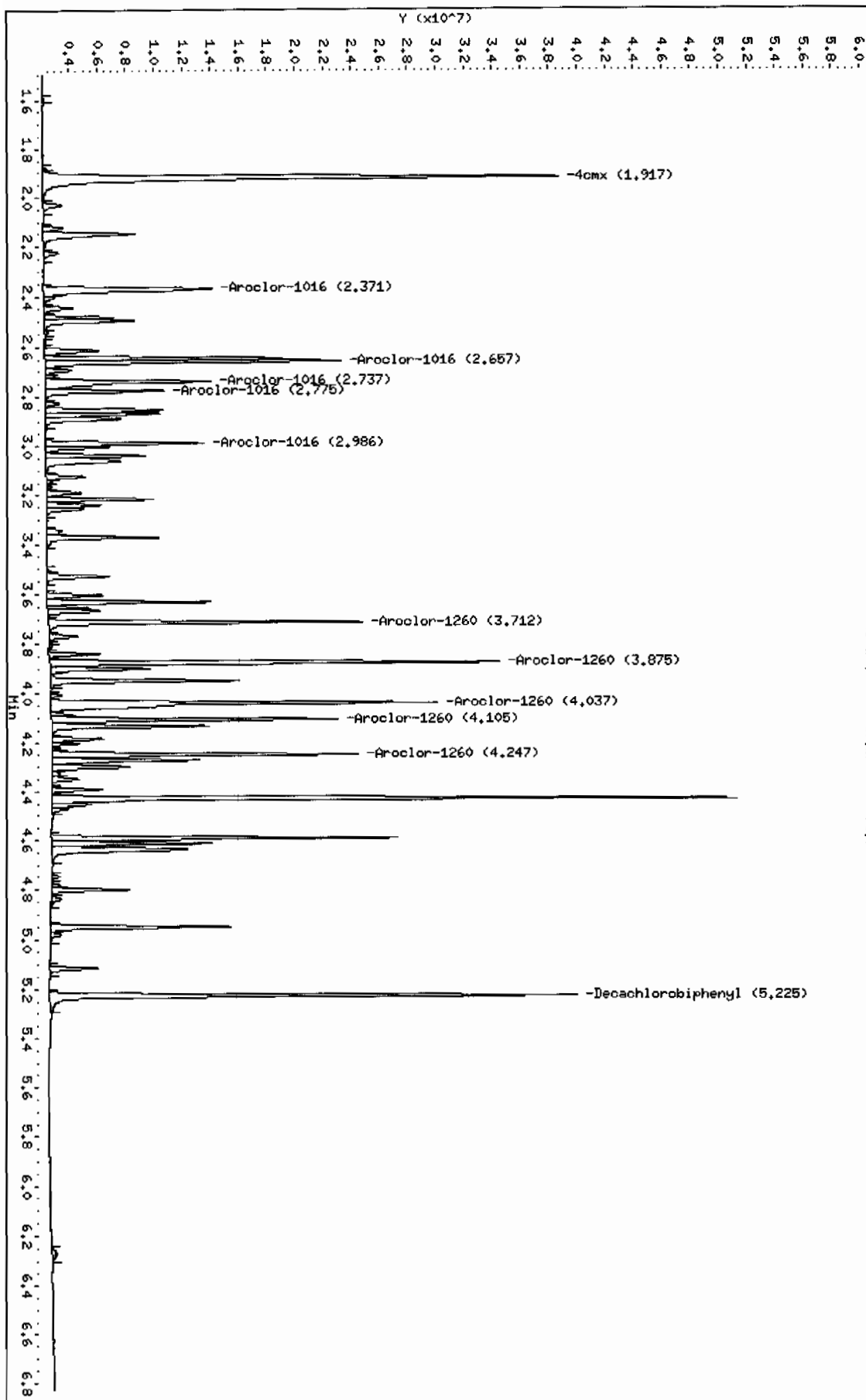
Column phase: CLP1

Instrument: eodla.i

Operator: YSL

Column diameter: 0.25

/chem/eodla.i/022610.b/051f5101.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/022610.b/051b5101.d
 Lab Smp Id: WAR100222-60 05 Client Smp ID: AR166005
 Inj Date : 26-FEB-2010 15:51
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 05
 Misc Info :
 Comment :
 Method : /chem/ecdl1.i/022610.b/ECD1-B-8082-022210.m
 Meth Date : 01-Mar-2010 06:02 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 51 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS								
			CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx				CAS #: 877-09-8				
2.276	2.276	0.000	28094576	100.000	94.5	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3				
5.920	5.922	-0.002	20067044	100.000	94.9	80.00-	120.00	100.00

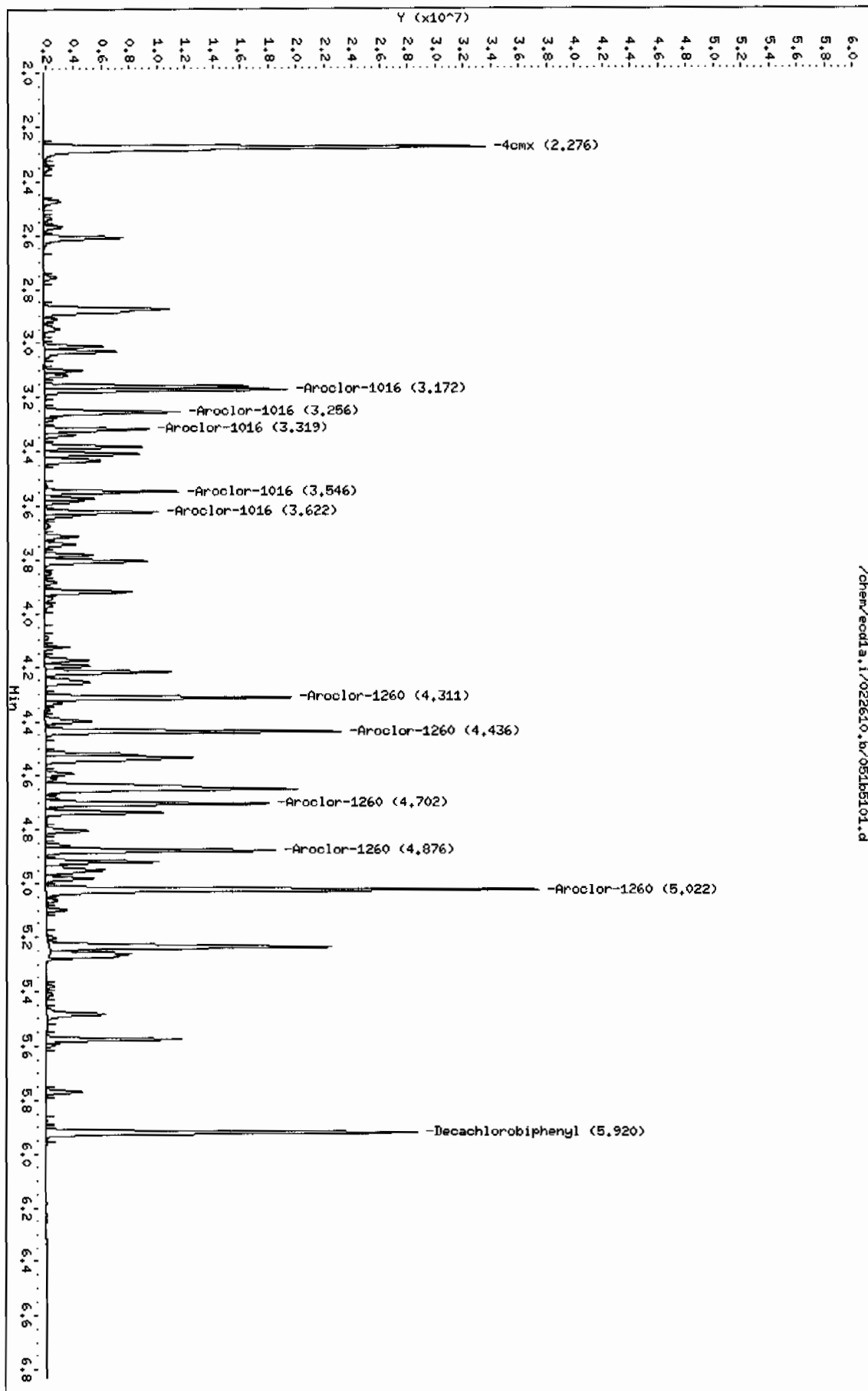
1 Aroclor-1016				CAS #: 12674-11-2				
3.172	3.173	-0.001	12757892	1000.00	998	80.00-	120.00	100.00
3.256	3.256	0.000	8304138	1000.00	931	46.87-	86.87	65.09
3.319	3.319	0.000	5181257	1000.00	958	21.67-	61.67	40.61
3.546	3.547	-0.001	6717891	1000.00	971	32.51-	72.51	52.66
3.622	3.623	-0.001	6213156	1000.00	967	39.64-	79.64	48.70
Average of Peak Amounts =					965			

7 Aroclor-1260				CAS #: 11096-82-5				
4.311	4.313	-0.002	12548872	1000.00	950	80.00-	120.00	100.00
4.436	4.438	-0.002	15364458	1000.00	987	103.03-	143.03	122.44
4.702	4.704	-0.002	11557506	1000.00	976	72.18-	112.18	92.10
4.876	4.877	-0.001	12007108	1000.00	984	75.21-	115.21	95.68
5.022	5.024	-0.002	26939299	1000.00	1020	193.96-	233.96	214.68
Average of Peak Amounts =					983			

Data File: /chem/ecda.i/022610.b/051b5101.d
Date : 26-FEB-2010 15:51
Client ID: AR166005
Sample Info: IMR100222-60 05

Column phase: CLP2

Instrument: ecda.i
Operator: YSI
Column diameter: 0.25



8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.92				DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR100219-99	02/22/10 0559	1.92		5.23	
02	ZZZZZ	ZZZZZ	02/22/10 0610	1.92		5.23	
03	ZZZZZ	ZZZZZ	02/22/10 0620	1.92		5.23	
04	DDTANALOGSTD	WAR091219-DD	02/22/10 0631				
05	AR123201	WAR100104-32	02/22/10 0641				
06	AR122101	WAR100104-21	02/22/10 0652				
07	AR126201	WAR100104-62	02/22/10 0703				
08	AR166001	WAR100222-01	02/22/10 0713	1.92		5.23	
09	AR166002	WAR100222-02	02/22/10 0724	1.92		5.23	
10	AR166003	WAR100222-03	02/22/10 0734	1.92		5.23	
11	AR166004	WAR100222-04	02/22/10 0745	1.92		5.23	
12	AR166005	IAR100104-01	02/22/10 0755	1.92		5.23	
13	AR166001	WAR100203-60	02/22/10 0806	1.92		5.23	
14	AR125401	WAR100222-05	02/22/10 0816				
15	AR125402	WAR100222-06	02/22/10 0827				
16	AR125403	WAR100222-07	02/22/10 0837				
17	AR125404	WAR100222-08	02/22/10 0848				
18	AR125405	IAR100219-02	02/22/10 0859				
19	AR125401	WAR100219-54	02/22/10 0909				
20	AR124201	WAR100222-09	02/22/10 0920				
21	AR124202	WAR100222-10	02/22/10 0930				
22	AR124203	WAR100222-11	02/22/10 0941				
23	AR124204	WAR100222-12	02/22/10 0951				
24	AR124205	IAR100219-01	02/22/10 1002				
25	AR124201	WAR100219-42	02/22/10 1012				
26	AR124801	WAR100222-13	02/22/10 1023				
27	AR124802	WAR100222-14	02/22/10 1033				
28	AR124803	WAR100222-15	02/22/10 1044				
29	AR124805	IAR100211-01	02/22/10 1054				
30	AR124804	WAR100222-16	02/22/10 1105				
31	AR124801	WAR091217-48	02/22/10 1116				
32	AR126801	WAR100222-17	02/22/10 1126				

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
01	AR126802	WAR100222-18	02/22/10	1137		
02	AR126803	WAR100222-19	02/22/10	1147		
03	AR126804	WAR100222-20	02/22/10	1158		
04	AR126805	IAR100104-05	02/22/10	1208		
05	AR126801	WAR100107-68	02/22/10	1219		
06	PIBLK02	WAR100219-99	02/22/10	1229	1.92	5.23
07	ZZZZZ	ZZZZZ	02/22/10	1240	1.92	5.23
08	ZZZZZ	ZZZZZ	02/22/10	1250	1.93	5.23
09	ZZZZZ	ZZZZZ	02/22/10	1301	1.92	5.23
10	ZZZZZ	ZZZZZ	02/22/10	1314	1.92	5.23
11	ZZZZZ	ZZZZZ	02/22/10	1326	1.92	5.23
12	ZZZZZ	ZZZZZ	02/22/10	1339	1.92	5.23
13	ZZZZZ	ZZZZZ	02/22/10	1351	1.92	5.23
14	ZZZZZ	ZZZZZ	02/22/10	1404	1.92	5.23
15	ZZZZZ	ZZZZZ	02/22/10	1417	1.92	5.23
16	ZZZZZ	ZZZZZ	02/22/10	1430	1.92	5.23
17	AR166002	WAR100203-60	02/22/10	1442	1.92	5.23
18	PIBLK03	WAR100219-99	02/22/10	1453	1.92	5.23
19	ZZZZZ	ZZZZZ	02/22/10	1503	1.92	5.23
20	ZZZZZ	ZZZZZ	02/22/10	1516	1.92	5.23
21	ZZZZZ	ZZZZZ	02/22/10	1528	1.92	5.23
22	ZZZZZ	ZZZZZ	02/22/10	1541	1.92	5.23
23	ZZZZZ	ZZZZZ	02/22/10	1554	1.92	5.23
24	ZZZZZ	ZZZZZ	02/22/10	1606	1.92	5.23
25	ZZZZZ	ZZZZZ	02/22/10	1619	1.92	5.23
26	ZZZZZ	ZZZZZ	02/22/10	1632	1.92	5.23
27	ZZZZZ	ZZZZZ	02/22/10	1644	1.92	5.23
28	ZZZZZ	ZZZZZ	02/22/10	1657	1.92	5.23
29	AR166003	WAR100203-60	02/22/10	1710	1.92	5.23
30	PIBLK04	WAR100219-99	02/22/10	1722	1.92	5.23
31	ZZZZZ	ZZZZZ	02/22/10	1735	1.92	5.23
32	ZZZZZ	ZZZZZ	02/22/10	1748	1.92	5.23

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/22/10	0559	2.29	5.93
02	ZZZZZ	ZZZZZ	02/22/10	0610	2.29	5.94
03	ZZZZZ	ZZZZZ	02/22/10	0620	2.29	5.94
04	DDTANALOGSTD	WAR091219-DD	02/22/10	0631		
05	AR123201	WAR100104-32	02/22/10	0641		
06	AR122101	WAR100104-21	02/22/10	0652		
07	AR126201	WAR100104-62	02/22/10	0703		
08	AR166001	WAR100222-01	02/22/10	0713	2.29	5.94
09	AR166002	WAR100222-02	02/22/10	0724	2.29	5.94
10	AR166003	WAR100222-03	02/22/10	0734	2.29	5.94
11	AR166004	WAR100222-04	02/22/10	0745	2.29	5.94
12	AR166005	IAR100104-01	02/22/10	0755	2.29	5.94
13	AR166001	WAR100203-60	02/22/10	0806	2.29	5.94
14	AR125401	WAR100222-05	02/22/10	0816		
15	AR125402	WAR100222-06	02/22/10	0827		
16	AR125403	WAR100222-07	02/22/10	0837		
17	AR125404	WAR100222-08	02/22/10	0848		
18	AR125405	IAR100219-02	02/22/10	0859		
19	AR125401	WAR100219-54	02/22/10	0909		
20	AR124201	WAR100222-09	02/22/10	0920		
21	AR124202	WAR100222-10	02/22/10	0930		
22	AR124203	WAR100222-11	02/22/10	0941		
23	AR124204	WAR100222-12	02/22/10	0951		
24	AR124205	IAR100219-01	02/22/10	1002		
25	AR124201	WAR100219-42	02/22/10	1012		
26	AR124801	WAR100222-13	02/22/10	1023		
27	AR124802	WAR100222-14	02/22/10	1033		
28	AR124803	WAR100222-15	02/22/10	1044		
29	AR124805	IAR100211-01	02/22/10	1054		
30	AR124804	WAR100222-16	02/22/10	1105		
31	AR124801	WAR091217-48	02/22/10	1116		
32	AR126801	WAR100222-17	02/22/10	1126		

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29			DCB: 5.94		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR126802	WAR100222-18	02/22/10 1137		
02	AR126803	WAR100222-19	02/22/10 1147		
03	AR126804	WAR100222-20	02/22/10 1158		
04	AR126805	IAR100104-05	02/22/10 1208		
05	AR126801	WAR100107-68	02/22/10 1219		
06	PIBLK02	WAR100219-99	02/22/10 1229	2.29	5.94
07	ZZZZZ	ZZZZZ	02/22/10 1240	2.29	5.94
08	ZZZZZ	ZZZZZ	02/22/10 1250	2.29	5.94
09	ZZZZZ	ZZZZZ	02/22/10 1301	2.29	5.94
10	ZZZZZ	ZZZZZ	02/22/10 1314	2.29	5.94
11	ZZZZZ	ZZZZZ	02/22/10 1326	2.29	5.94
12	ZZZZZ	ZZZZZ	02/22/10 1339	2.29	5.93
13	ZZZZZ	ZZZZZ	02/22/10 1351	2.29	5.93
14	ZZZZZ	ZZZZZ	02/22/10 1404	2.29	5.94
15	ZZZZZ	ZZZZZ	02/22/10 1417	2.29	5.93
16	ZZZZZ	ZZZZZ	02/22/10 1430	2.29	5.93
17	AR166002	WAR100203-60	02/22/10 1442	2.29	5.94
18	PIBLK03	WAR100219-99	02/22/10 1453	2.29	5.94
19	ZZZZZ	ZZZZZ	02/22/10 1503	2.29	5.94
20	ZZZZZ	ZZZZZ	02/22/10 1516	2.29	5.93
21	ZZZZZ	ZZZZZ	02/22/10 1528	2.29	5.93
22	ZZZZZ	ZZZZZ	02/22/10 1541	2.29	5.94
23	ZZZZZ	ZZZZZ	02/22/10 1554	2.29	5.93
24	ZZZZZ	ZZZZZ	02/22/10 1606	2.29	5.93
25	ZZZZZ	ZZZZZ	02/22/10 1619	2.29	5.94
26	ZZZZZ	ZZZZZ	02/22/10 1632	2.29	5.93
27	ZZZZZ	ZZZZZ	02/22/10 1644	2.29	5.93
28	ZZZZZ	ZZZZZ	02/22/10 1657	2.29	5.93
29	AR166003	WAR100203-60	02/22/10 1710	2.29	5.93
30	PIBLK04	WAR100219-99	02/22/10 1722	2.29	5.93
31	ZZZZZ	ZZZZZ	02/22/10 1735	2.29	5.93
32	ZZZZZ	ZZZZZ	02/22/10 1748	2.29	5.94

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/26/10	0613	1.91	5.22
02	ZZZZZ	ZZZZZ	02/26/10	0624	1.92	5.22
03	AR125401	WAR100219-54	02/26/10	0634		
04	AR124201	WAR100219-42	02/26/10	0645		
05	AR124801	WAR100223-48	02/26/10	0655		
06	AR126801	WAR100107-68	02/26/10	0706		
07	AR166001	WAR100222-60	02/26/10	0716	1.92	5.23
08	AR123201	WAR100104-32	02/26/10	0727		
09	AR122101	WAR100104-21	02/26/10	0737		
10	AR126201	WAR100104-62	02/26/10	0748		
11	DDTANALOGSTD	WAR091219-DD	02/26/10	0758		
12	PIBLK02	WAR100219-99	02/26/10	0809	1.92	5.23
13	ZZZZZ	ZZZZZ	02/26/10	0819	1.92	5.23
14	ZZZZZ	ZZZZZ	02/26/10	0830	1.92	5.23
15	ZZZZZ	ZZZZZ	02/26/10	0843	1.92	5.22
16	AR166002	WAR100222-60	02/26/10	0855	1.92	5.22
17	PIBLK03	WAR100219-99	02/26/10	0906	1.92	5.23
18	ZZZZZ	ZZZZZ	02/26/10	0916	1.92	5.23
19	ZZZZZ	ZZZZZ	02/26/10	0927	1.92	5.22
20	ZZZZZ	ZZZZZ	02/26/10	0937	1.92	5.23
21	ZZZZZ	ZZZZZ	02/26/10	0948	1.92	5.23
22	ZZZZZ	ZZZZZ	02/26/10	0958	1.92	5.23
23	ZZZZZ	ZZZZZ	02/26/10	1009	1.92	5.23
24	ZZZZZ	ZZZZZ	02/26/10	1019	1.92	5.22
25	ZZZZZ	ZZZZZ	02/26/10	1030	1.92	5.22
26	ZZZZZ	ZZZZZ	02/26/10	1042	1.92	5.22
27	ZZZZZ	ZZZZZ	02/26/10	1055	1.92	5.22
28	AR166003	WAR100222-60	02/26/10	1109	1.92	5.22
29	PIBLK04	WAR100219-99	02/26/10	1120	1.92	5.23
30	PBLK01	1202052484	02/26/10	1130	1.92	5.23
31	PBLK01LCS	1202052485	02/26/10	1143	1.92	5.23
32	ZZZZZ	ZZZZZ	02/26/10	1155	1.92	5.22

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.92				DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	ZZZZZ	02/26/10	1208	1.92		5.22	
02	ZZZZZ	02/26/10	1221	1.92		5.22	
03	ZZZZZ	02/26/10	1233	1.92		5.22	
04	ZZZZZ	02/26/10	1246	1.92		5.22	
05	ZZZZZ	02/26/10	1259	1.92		5.23	
06	ZZZZZ	02/26/10	1311	1.92		5.22	
07	ZZZZZ	02/26/10	1324	1.92		5.22	
08	AR166004	WAR100222-60	1336	1.92		5.22	
09	PIBLK05	WAR100219-99	1347	1.92		5.23	
10	ZZZZZ	02/26/10	1358	1.92		5.22	
11	ZZZZZ	02/26/10	1410	1.92		5.22	
12	ZZZZZ	02/26/10	1423	1.92		5.22	
13	ZZZZZ	02/26/10	1435	1.92		5.22	
14	RE15-10-8342	247332006	1448	1.92		5.22	
15	RE15-10-8342MS	1202052486	1500	1.92		5.22	
16	RE15-10-8342MSD	1202052487	1513	1.92		5.22	
17	RE15-10-8343	247332007	1526	1.92		5.22	
18	RE15-10-8377	247332008	1538	1.92		5.22	
19	AR166005	WAR100222-60	1551	1.92		5.22	
20	PIBLK06	WAR100219-99	1603	1.92		5.22	
21	ZZZZZ	02/26/10	1616	1.92		5.22	
22	ZZZZZ	02/26/10	1629	1.92		5.22	
23	ZZZZZ	02/26/10	1641	1.92		5.22	
24	ZZZZZ	02/26/10	1654	1.92		5.23	
25	ZZZZZ	02/26/10	1707	1.92		5.22	
26	ZZZZZ	02/26/10	1719	1.92		5.22	
27	ZZZZZ	02/26/10	1732	1.92		5.22	
28	ZZZZZ	02/26/10	1745	1.92		5.22	
29	AR166006	WAR100222-60	1757	1.92		5.22	
30	PIBLK07	WAR100219-99	1810	1.92		5.22	
31	ZZZZZ	02/26/10	1822	1.92		5.22	
32	ZZZZZ	02/26/10	1835	1.92		5.22	

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.28			DCB: 5.92			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/26/10	0613	2.27	5.92
02	ZZZZZ	ZZZZZ	02/26/10	0624	2.28	5.92
03	AR125401	WAR100219-54	02/26/10	0634		
04	AR124201	WAR100219-42	02/26/10	0645		
05	AR124801	WAR100223-48	02/26/10	0655		
06	AR126801	WAR100107-68	02/26/10	0706		
07	AR166001	WAR100222-60	02/26/10	0716	2.28	5.92
08	AR123201	WAR100104-32	02/26/10	0727		
09	AR122101	WAR100104-21	02/26/10	0737		
10	AR126201	WAR100104-62	02/26/10	0748		
11	DDTANALOGSTD	WAR091219-DD	02/26/10	0758		
12	PIBLK02	WAR100219-99	02/26/10	0809	2.28	5.92
13	ZZZZZ	ZZZZZ	02/26/10	0819	2.28	5.92
14	ZZZZZ	ZZZZZ	02/26/10	0830	2.28	5.92
15	ZZZZZ	ZZZZZ	02/26/10	0843	2.28	5.92
16	AR166002	WAR100222-60	02/26/10	0855	2.28	5.92
17	PIBLK03	WAR100219-99	02/26/10	0906	2.28	5.92
18	ZZZZZ	ZZZZZ	02/26/10	0916	2.28	5.92
19	ZZZZZ	ZZZZZ	02/26/10	0927	2.28	5.92
20	ZZZZZ	ZZZZZ	02/26/10	0937	2.28	5.92
21	ZZZZZ	ZZZZZ	02/26/10	0948	2.28	5.92
22	ZZZZZ	ZZZZZ	02/26/10	0958	2.28	5.92
23	ZZZZZ	ZZZZZ	02/26/10	1009	2.28	5.92
24	ZZZZZ	ZZZZZ	02/26/10	1019	2.28	5.92
25	ZZZZZ	ZZZZZ	02/26/10	1030	2.28	5.92
26	ZZZZZ	ZZZZZ	02/26/10	1042	2.28	5.92
27	ZZZZZ	ZZZZZ	02/26/10	1055	2.28	5.92
28	AR166003	WAR100222-60	02/26/10	1109	2.28	5.92
29	PIBLK04	WAR100219-99	02/26/10	1120	2.28	5.92
30	PBLK01	1202052484	02/26/10	1130	2.28	5.92
31	PBLK01LCS	1202052485	02/26/10	1143	2.28	5.92
32	ZZZZZ	ZZZZZ	02/26/10	1155	2.28	5.92

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1905

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.28			DCB: 5.92			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	ZZZZZ	ZZZZZ	02/26/10	1208	2.28	5.92
02	ZZZZZ	ZZZZZ	02/26/10	1221	2.28	5.92
03	ZZZZZ	ZZZZZ	02/26/10	1233	2.28	5.92
04	ZZZZZ	ZZZZZ	02/26/10	1246	2.28	5.92
05	ZZZZZ	ZZZZZ	02/26/10	1259	2.28	5.92
06	ZZZZZ	ZZZZZ	02/26/10	1311	2.28	5.92
07	ZZZZZ	ZZZZZ	02/26/10	1324	2.28	5.92
08	AR166004	WAR100222-60	02/26/10	1336	2.28	5.92
09	PIBLK05	WAR100219-99	02/26/10	1347	2.28	5.92
10	ZZZZZ	ZZZZZ	02/26/10	1358	2.28	5.92
11	ZZZZZ	ZZZZZ	02/26/10	1410	2.28	5.92
12	ZZZZZ	ZZZZZ	02/26/10	1423	2.28	5.92
13	ZZZZZ	ZZZZZ	02/26/10	1435	2.28	5.92
14	RE15-10-8342	247332006	02/26/10	1448	2.28	5.92
15	RE15-10-8342MS	1202052486	02/26/10	1500	2.28	5.92
16	RE15-10-8342MSD	1202052487	02/26/10	1513	2.28	5.92
17	RE15-10-8343	247332007	02/26/10	1526	2.28	5.92
18	RE15-10-8377	247332008	02/26/10	1538	2.28	5.92
19	AR166005	WAR100222-60	02/26/10	1551	2.28	5.92
20	PIBLK06	WAR100219-99	02/26/10	1603	2.28	5.92
21	ZZZZZ	ZZZZZ	02/26/10	1616	2.28	5.92
22	ZZZZZ	ZZZZZ	02/26/10	1629	2.28	5.92
23	ZZZZZ	ZZZZZ	02/26/10	1641	2.28	5.92
24	ZZZZZ	ZZZZZ	02/26/10	1654	2.28	5.92
25	ZZZZZ	ZZZZZ	02/26/10	1707	2.28	5.92
26	ZZZZZ	ZZZZZ	02/26/10	1719	2.28	5.92
27	ZZZZZ	ZZZZZ	02/26/10	1732	2.28	5.92
28	ZZZZZ	ZZZZZ	02/26/10	1745	2.28	5.92
29	AR166006	WAR100222-60	02/26/10	1757	2.28	5.92
30	PIBLK07	WAR100219-99	02/26/10	1810	2.28	5.92
31	ZZZZZ	ZZZZZ	02/26/10	1822	2.28	5.92
32	ZZZZZ	ZZZZZ	02/26/10	1835	2.28	5.92

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

Page 1 of 1

SDG Number: 10-1905

Client ID: LCS for batch 957230

Lab Sample ID: 1202052485

Data File: 031f3101.d

Data File: 031b3101.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 11:43

Analyzed: 26-FEB-10 11:43

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.07
Column 1	1	2.37	2.34 - 2.4	20.9		ug/kg	
	2	2.66	2.63 - 2.69	22.1		ug/kg	
	3	2.74	2.71 - 2.77	21.6		ug/kg	
	4	2.78	2.75 - 2.81	21.9		ug/kg	
	5	2.99	2.96 - 3.02	22.6		ug/kg	
					21.8		
Column 2	1	3.17	3.14 - 3.2	22.8		ug/kg	
	2	3.26	3.23 - 3.29	21.6		ug/kg	
	3	3.32	3.29 - 3.35	21.8		ug/kg	
	4	3.55	3.52 - 3.58	21.9		ug/kg	
	5	3.62	3.59 - 3.65	22.2		ug/kg	
					22.1		
Aroclor-1260							6.67
Column 1	1	3.71	3.68 - 3.74	25		ug/kg	
	2	3.88	3.85 - 3.91	26.7		ug/kg	
	3	4.04	4.01 - 4.07	27.4		ug/kg	
	4	4.11	4.08 - 4.14	26.6		ug/kg	
	5	4.25	4.22 - 4.28	27.8		ug/kg	
					26.7		
Column 2	1	4.31	4.28 - 4.34	23.9		ug/kg	
	2	4.44	4.41 - 4.47	24.9		ug/kg	
	3	4.7	4.67 - 4.73	24.7		ug/kg	
	4	4.88	4.85 - 4.91	25.2		ug/kg	
	5	5.02	4.99 - 5.05	26.2		ug/kg	
					25		

Identification Summary

Page 1 of 1

SDG Number: 10-1905

Client ID: RE15-10-8342MS

Lab Sample ID: 1202052486

Data File: 047f4701.d

Data File: 047b4701.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 15:00

Analyzed: 26-FEB-10 15:00

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							4.51
Column 1	1	2.37	2.34 - 2.4	29.8		ug/kg	
	2	2.66	2.63 - 2.69	26.8		ug/kg	
	3	2.74	2.71 - 2.77	27.1		ug/kg	
	4	2.78	2.75 - 2.81	27.3		ug/kg	
	5	2.99	2.96 - 3.02	25.1		ug/kg	
					27.2		
Column 2	1	3.17	3.14 - 3.2	27.2		ug/kg	
	2	3.26	3.23 - 3.29	28.6		ug/kg	
	3	3.32	3.29 - 3.35	35.3		ug/kg	
	4	3.55	3.52 - 3.58	29.4		ug/kg	
	5	3.62	3.59 - 3.65	21.9		ug/kg	
					28.5		
Aroclor-1260							8.63
Column 1	1	3.71	3.68 - 3.74	36.3		ug/kg	
	2	3.87	3.85 - 3.91	35.9		ug/kg	
	3	4.04	4.01 - 4.07	36.5		ug/kg	
	4	4.1	4.08 - 4.14	36		ug/kg	
	5	4.25	4.22 - 4.28	35		ug/kg	
					35.9		
Column 2	1	4.31	4.28 - 4.34	33.8		ug/kg	
	2	4.44	4.41 - 4.47	32.3		ug/kg	
	3	4.7	4.67 - 4.73	34		ug/kg	
	4	4.88	4.85 - 4.91	31.9		ug/kg	
	5	5.02	4.99 - 5.05	32.6		ug/kg	
					32.9		

Identification Summary

Page 1 of 1

SDG Number: 10-1905

Client ID: RE15-10-8342MSD

Lab Sample ID: 1202052487

Data File: 048f4801.d

Data File: 048b4801.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 15:13

Analyzed: 26-FEB-10 15:13

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							9.51
Column 1	1	2.37	2.34 - 2.4	23.5		ug/kg	
	2	2.66	2.63 - 2.69	23.1		ug/kg	
	3	2.74	2.71 - 2.77	23.1		ug/kg	
	4	2.78	2.75 - 2.81	22.5		ug/kg	
	5	2.99	2.96 - 3.02	22.3		ug/kg	
					22.9		
Column 2	1	3.17	3.14 - 3.2	23.3		ug/kg	
	2	3.26	3.23 - 3.29	24.5		ug/kg	
	3	3.32	3.29 - 3.35	31		ug/kg	
	4	3.55	3.52 - 3.58	25.3		ug/kg	
	5	3.62	3.59 - 3.65	21.8		ug/kg	
					25.2		
Aroclor-1260							3.81
Column 1	1	3.71	3.68 - 3.74	28.9		ug/kg	
	2	3.87	3.85 - 3.91	28.3		ug/kg	
	3	4.04	4.01 - 4.07	27		ug/kg	
	4	4.1	4.08 - 4.14	28.5		ug/kg	
	5	4.25	4.22 - 4.28	27.9		ug/kg	
					28.1		
Column 2	1	4.31	4.28 - 4.34	30.3		ug/kg	
	2	4.44	4.41 - 4.47	26		ug/kg	
	3	4.7	4.67 - 4.73	26.2		ug/kg	
	4	4.88	4.85 - 4.91	24.8		ug/kg	
	5	5.02	4.99 - 5.05	27.9		ug/kg	
					27		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1905

Matrix: SOIL

Lab Sample ID: 1202052484

Client Sample: QC for batch 957230

Client: LANL010

Project: QC

Client ID: MB for batch 957230

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 957231

Inst: ECD1A.I

Dilution: 1

Run Date: 02/26/2010 11:30

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/25/2010 10:53

Aliquot: 30 g

Final Volume: 1 mL

Data File: 030f3001-1.d

Column: 1 CLP1

Level: LOW

030b3001-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecdla.i/022610.b/030f3001-2.d
Report Date: 26-Feb-2010 14:16

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/022610.b/030f3001-2.d
Lab Smp Id: 1202052484 Client Smp ID: PBLK01
Inj Date : 26-FEB-2010 11:30
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202052484|1|
Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/022610.b/ECD1-F-8082-022210.m
Meth Date : 26-Feb-2010 14:00 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
1.917	1.917	0.000	44991737	104.477	3.5 80.00- 120.00	100.00
CAS #: 2051-24-3						
5.226	5.226	0.000	41746820	135.855	4.5 80.00- 120.00	100.00

Data File: /chem/ecod1a.i/022610.b/030f3001-2.d

Date: 26-FEB-2010 11:30

Client ID: PBLK01

Sample Info: 11202052484111

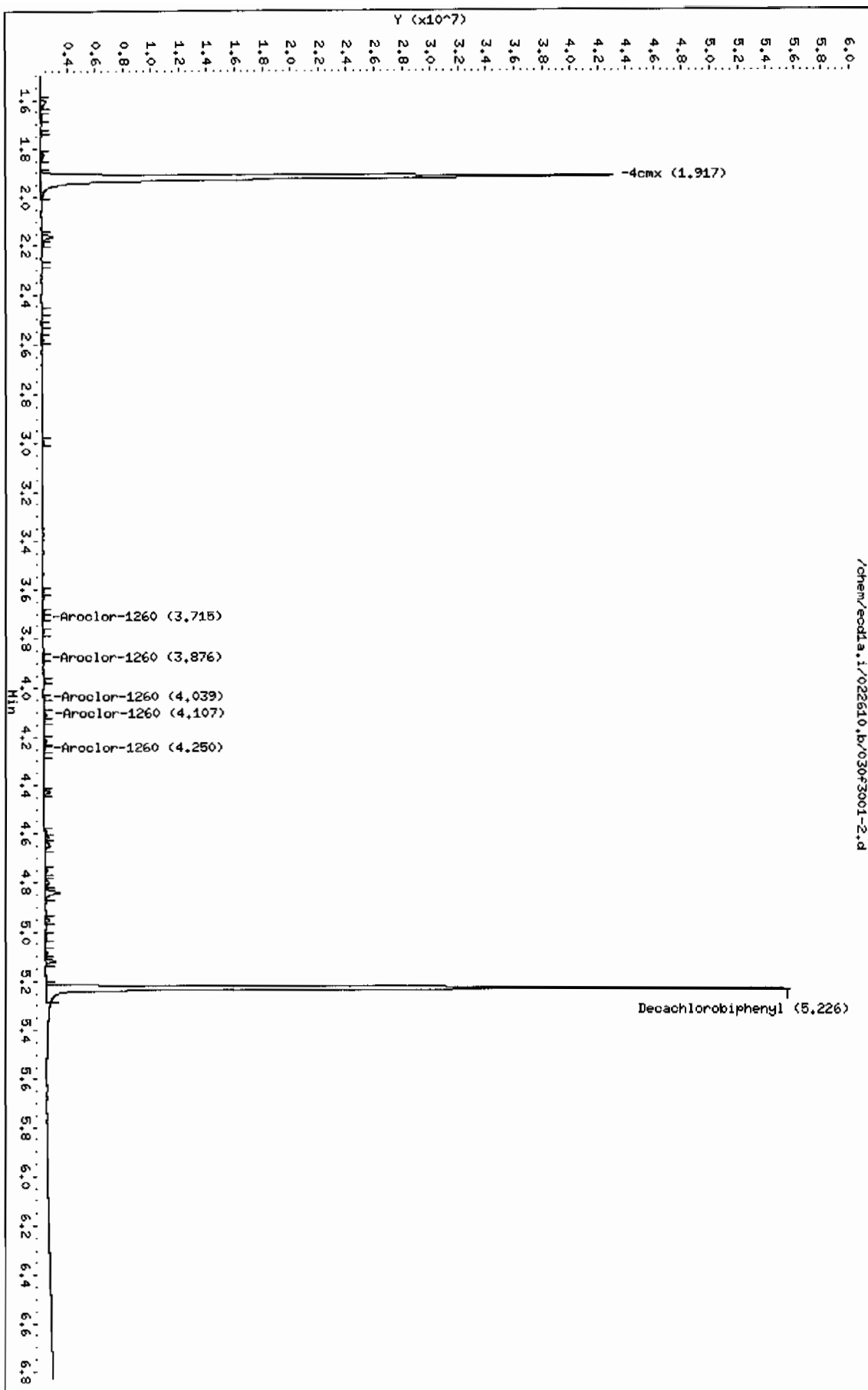
Volume Injected (uL): 1.0

Column phase: CLP4

Instrument: ecod1a.i

Operator: YS1

Column diameter: 0.25



Data File: /chem/ecdl1a.i/022610.b/030b3001-2.d
Report Date: 26-Feb-2010 14:15

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/022610.b/030b3001-2.d
Lab Smp Id: 1202052484 Client Smp ID: PBLK01
Inj Date : 26-FEB-2010 11:30
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202052484|1|
Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 13:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.276	2.276	0.000	31979026	107.530	3.6 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.921	5.922	-0.001	27729384	131.109	4.4 80.00- 120.00	100.00

Data File: /chem/eod1a.i/022610.b/030b3001-2.d

Date: 26-FEB-2010 11:30

Client ID: PLK01

Sample Info: 1120205249411

Volume Injected (uL): 1.0

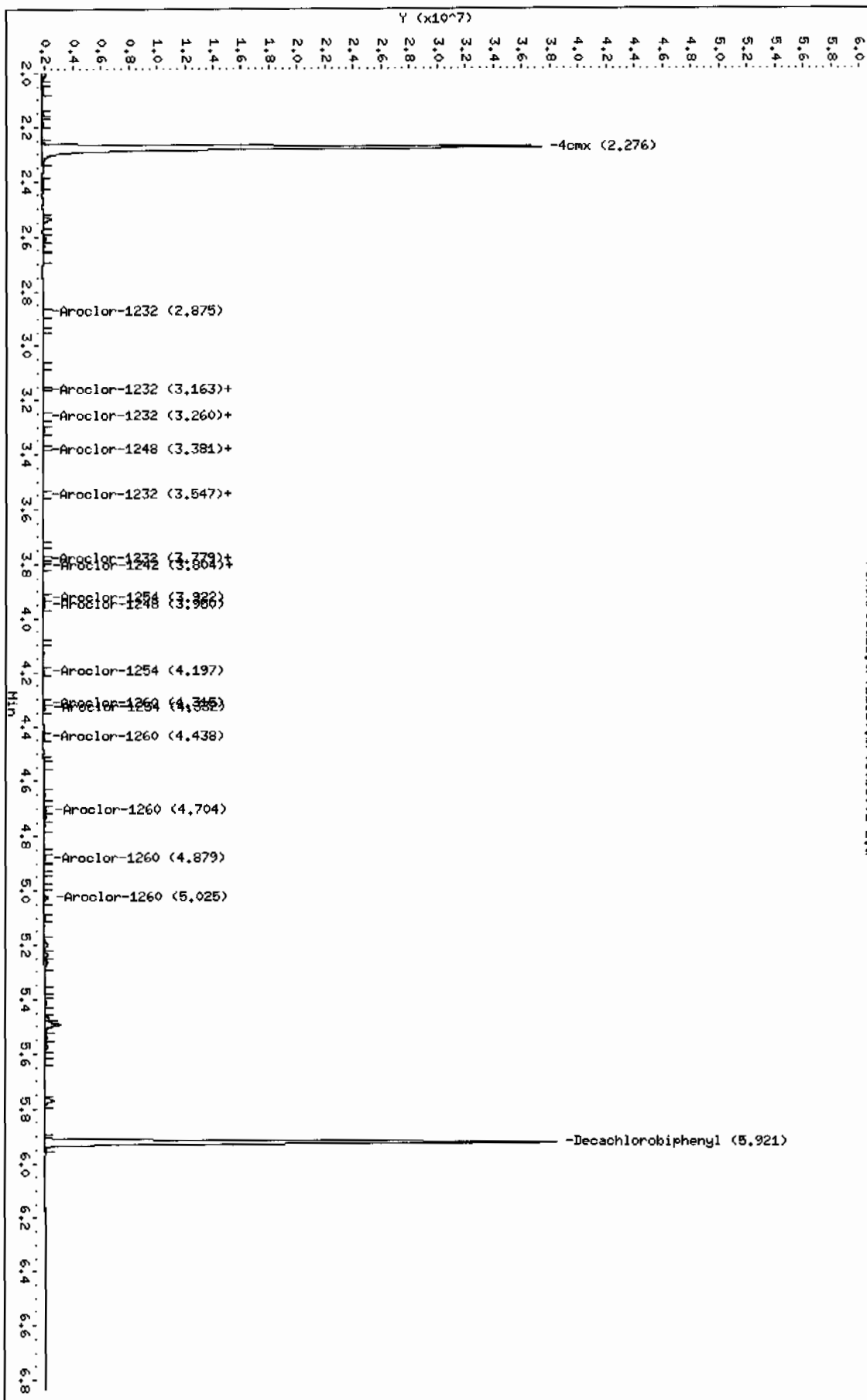
Column phase: CLP2

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25

/chem/eod1a.i/022610.b/030b3001-2.d



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1905

Matrix: SOIL

Lab Sample ID: 1202052485

Client Sample: QC for batch 957230

Client: LANL010

Project: QC

Client ID: LCS for batch 957230

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 957231

Inst: ECD1A.J

Dilution: 1

Run Date: 02/26/2010 11:43

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/25/2010 10:53

Aliquot: 30 g

Final Volume: 1 mL

Data File: 031f3101-1.d

Column: 1 CLP1

Level: LOW

031b3101-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		22.1	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		26.7	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/031f3101-2.d
Lab Smp Id: 1202052485 Client Smp ID: PBLK01LCS
Inj Date : 26-FEB-2010 11:43
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202052485|1|
Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m
Meth Date : 26-Feb-2010 14:00 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 31 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8				
1.918	1.917	0.001	52098449	120.980	4.0	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.225	5.226	-0.001	45167295	146.986	4.9	80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2				
2.371	2.371	0.000	9650151	627.271	20.9	80.00- 120.00	100.00
2.658	2.659	-0.001	12096215	663.278	22.1	111.90- 151.90	125.35
2.738	2.739	-0.001	7814182	647.648	21.6	62.97- 102.97	80.97
2.775	2.776	-0.001	4659167	656.581	21.9	30.29- 70.29	48.28

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
2.986	2.987	-0.001	6047720	678.590	22.6	43.07-	83.07	62.67
Average of Peak Concentrations =					21.8			

7 Aroclor-1260					CAS #: 11096-82-5			
3.712	3.714	-0.002	12780519	748.606	25.0	80.00-	120.00	100.00
3.875	3.876	-0.001	18961319	801.969	26.7	130.07-	170.07	148.36
4.037	4.039	-0.002	20528096	822.066	27.4	139.98-	179.98	160.62
4.105	4.107	-0.002	11518454	799.578	26.6	70.41-	110.41	90.13
4.248	4.249	-0.001	12041180	834.424	27.8	73.86-	113.86	94.22
Average of Peak Concentrations =					26.7			

Data File: /chem/eodla.i/022610.b/031f3101-2.d

Date: 26-FEB-2010 11:43

Client ID: PRLK01LCS

Sample Info: 1120205248511

Volume Injected (uL): 1.0

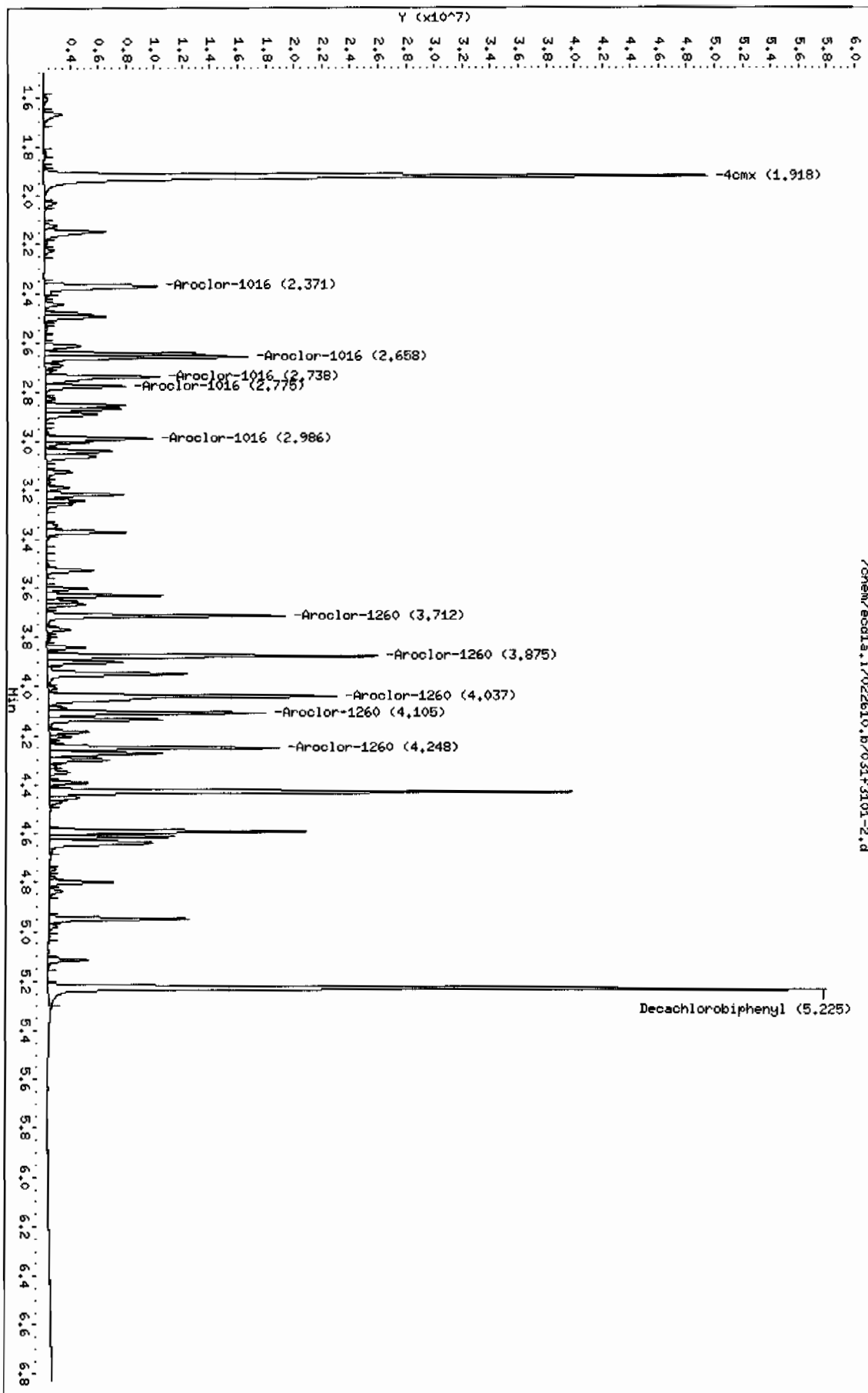
Column phase: CLP1

Instrument: eodla.i

Operator: YS1

Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/022610.b/031b3101-2.d
Report Date: 26-Feb-2010 14:16

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/031b3101-2.d
Lab Smp Id: 1202052485 Client Smp ID: PBLK01LCS
Inj Date : 26-FEB-2010 11:43
Operator : YSl Inst ID: ecd1a.i
Smp Info : |1202052485|1|
Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 26-Feb-2010 13:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 31 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO	
			RESPONSE (ug/L)	(ug/Kg)			
			=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.276	2.276	0.000	36848495	123.903	4.1	80.00-	120.00 100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.920	5.922	-0.002	29267846	138.383	4.6	80.00-	120.00 100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.172	3.173	-0.001	8768142	685.558	22.8	80.00-	120.00 100.00(M)
3.255	3.256	-0.001	5784782	648.669	21.6	45.99-	85.99 65.98
3.319	3.319	0.000	3529116	652.813	21.8	21.25-	61.25 40.25
3.546	3.547	-0.001	4537174	656.075	21.9	31.62-	71.62 51.75

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)									
3.621	3.623	-0.002	4275801	665.472	22.2	28.26-	68.26	48.77	
Average of Peak Concentrations =					22.0				

7 Aroclor-1260					CAS #: 11096-82-5				
4.311	4.313	-0.002	9464452	716.698	23.9	80.00-	120.00	100.00	
4.436	4.438	-0.002	11627281	746.927	24.9	102.36-	142.36	122.85	
4.702	4.704	-0.002	8789138	742.106	24.7	71.90-	111.90	92.86	
4.876	4.877	-0.001	9222733	755.888	25.2	75.49-	115.49	97.45	
5.023	5.024	-0.001	20856177	786.219	26.2	194.31-	234.31	220.36	
Average of Peak Concentrations =					25.0				

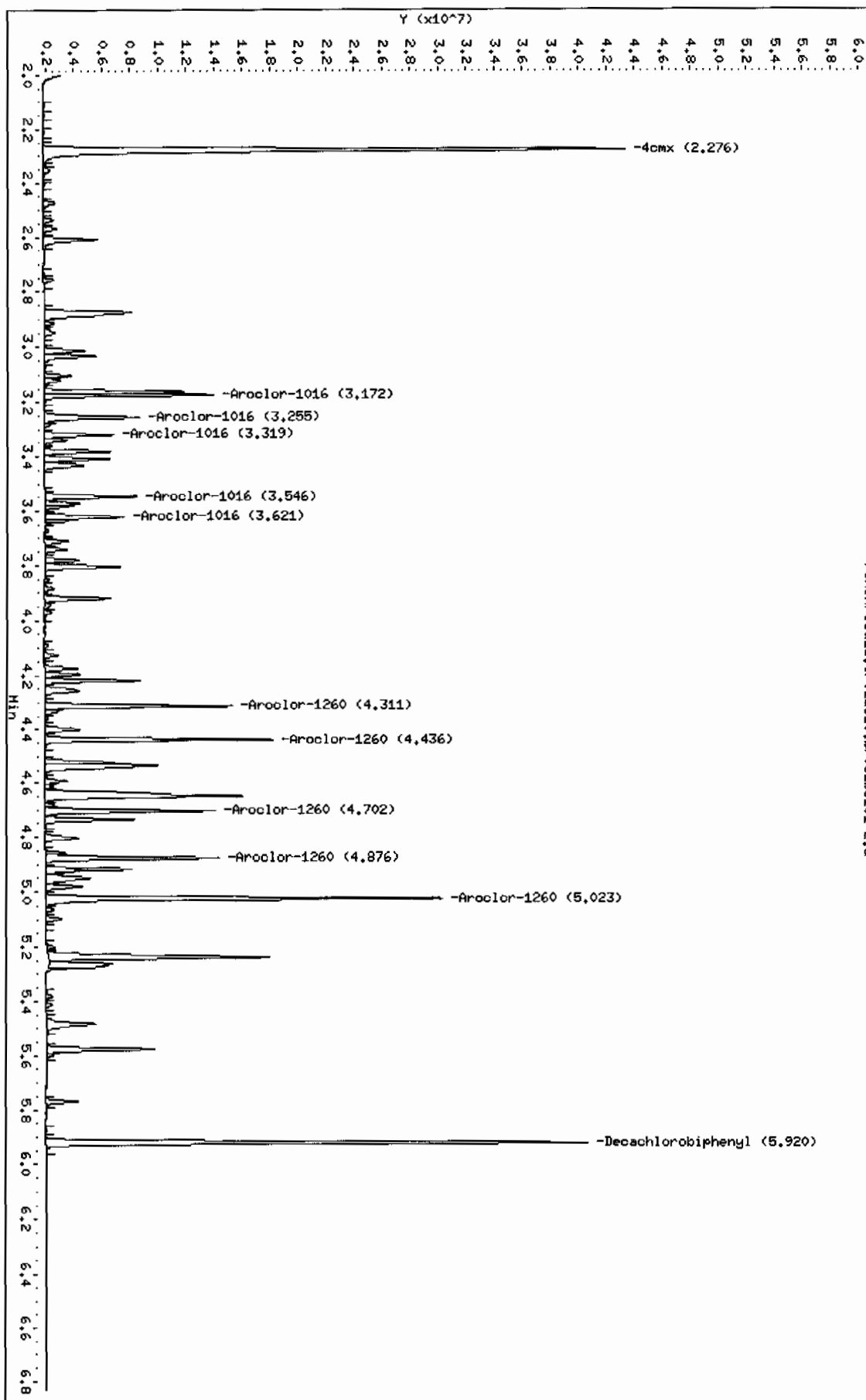
QC Flag Legend

M - Compound response manually integrated.

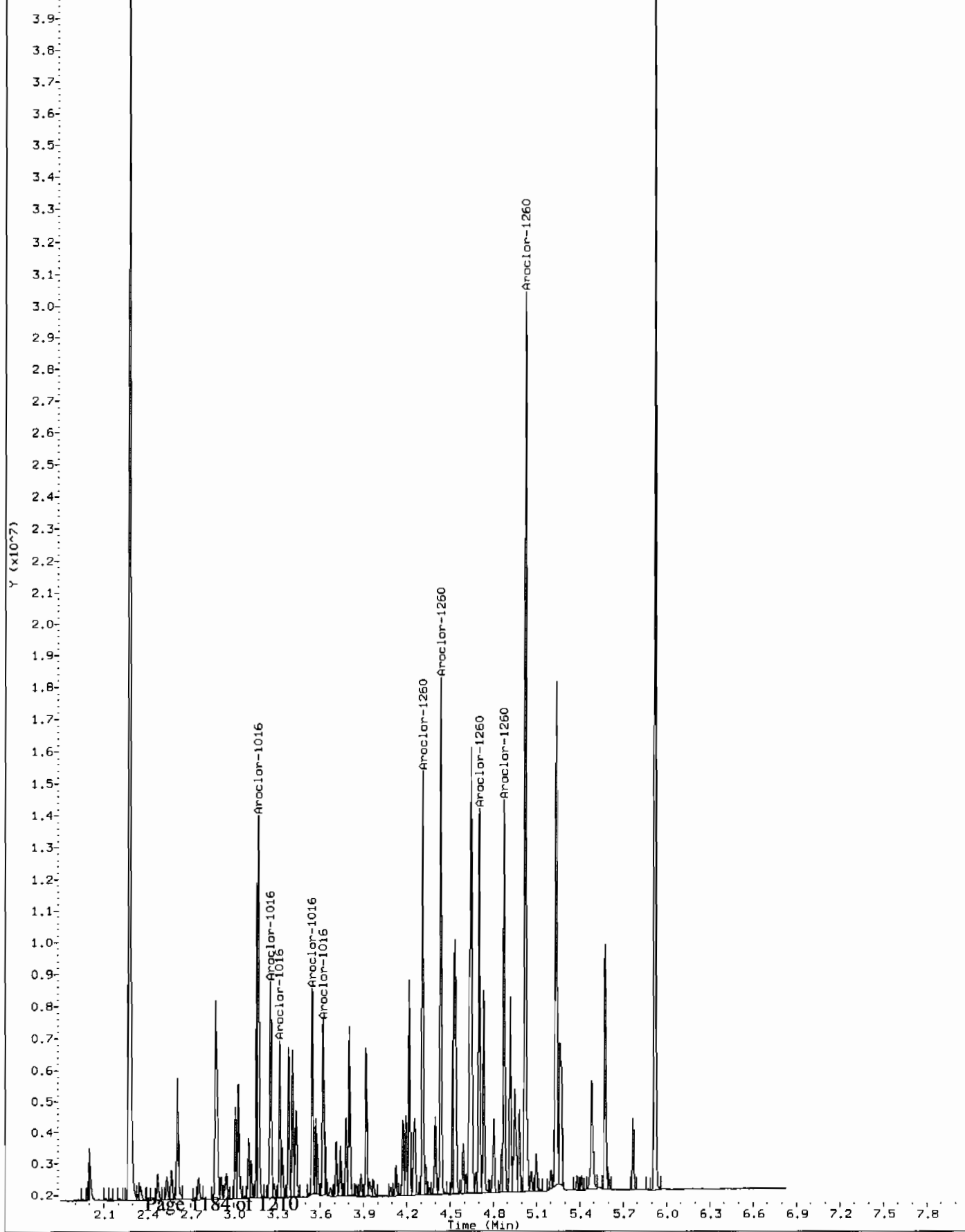
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Date: 26-FEB-2010 11:43
Client ID: BLK01LCS
Sample Info: 1420205248511
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

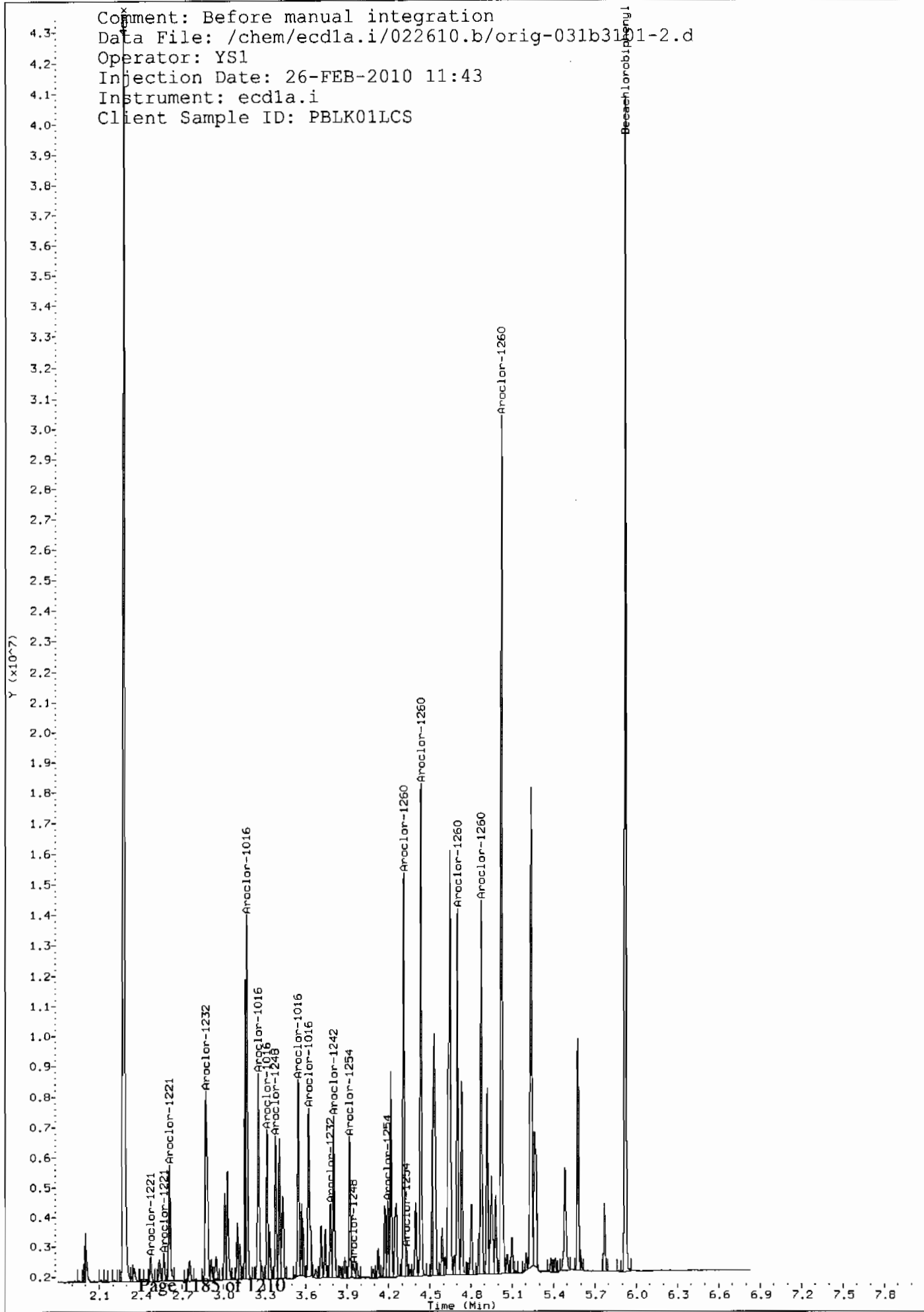
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Comment: Manually Integrated
Data File: /chem/ecdl.a.i/022610.b/031b3101-2.01
Operator: YS1
Injection Date: 26-FEB-2010 11:43
Instrument: ecdla.i
Client Sample ID: PBLK01LCS



Comment: Before manual integration
Data File: /chem/ecdl1.i/022610.b/orig-031b311-2.d
Operator: YS1
Injection Date: 26-FEB-2010 11:43
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1905	Date Collected:	02/12/2010 12:00	Matrix:	R
Lab Sample ID:	1202052486	Date Received:	02/18/2010 08:45	%Moisture:	5.4
Client Sample:	QC for batch 957230	Client:	LANL010	Project:	QC
Client ID:	RE15-10-8342MS	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	957231	Inst:	ECD1A.I	Dilution:	5
Run Date:	02/26/2010 15:00	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/25/2010 10:53	Aliquot:	30 g	Final Volume:	1 mL
Data File:	047f4701.d	Column:	1 CLP1	Level:	LOW
	047b4701.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		27.2	ug/kg	5.87	17.6	1
11104-28-2	Aroclor-1221	U	17.6	ug/kg	5.87	17.6	1
11141-16-5	Aroclor-1232	U	17.6	ug/kg	5.87	17.6	1
53469-21-9	Aroclor-1242	U	17.6	ug/kg	5.87	17.6	1
12672-29-6	Aroclor-1248	U	17.6	ug/kg	5.87	17.6	1
11097-69-1	Aroclor-1254	U	17.6	ug/kg	5.87	17.6	1
11096-82-5	Aroclor-1260		35.9	ug/kg	5.87	17.6	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/047f4701.d

Lab Smp Id: 1202052486

Client Smp ID: RE15-10-8342MS

Inj Date : 26-FEB-2010 15:00

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202052486|5|

Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|MS|

Comment :

Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 06:19 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 47

QC Sample: MS

Dil Factor: 5.00000

Integrator: Falcon

Compound Sublist: 10-1905.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.39600	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
---	-----	-----	-----	-----	-----	-----	-----
\$ 11 4cmx				CAS #: 877-09-8			
1.919	1.917	0.002	11369501 26.4016	4.6	80.00~ 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.224	5.226	-0.002	9303772 30.2769	5.3	80.00~ 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
2.371	2.371	0.000	2601492 169.100	29.8	80.00~ 120.00	100.00	
2.659	2.659	0.000	2775256 152.177	26.8	108.62~ 148.62	106.68	
2.738	2.739	-0.001	1856187 153.843	27.1	62.93~ 102.93	71.35	
2.776	2.776	0.000	1100535 155.090	27.3	30.56~ 70.56	42.30	

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
2.985	2.987	-0.002	1268803	142.367	25.1	44.73-	84.73	48.77
Average of Peak Concentrations =					27.2			

7 Aroclor-1260					CAS #: 11096-82-5			
3.711	3.714	-0.003	3514655	205.867	36.3	80.00-	120.00	100.00
3.874	3.876	-0.002	4812094	203.528	35.8	129.59-	169.59	136.92
4.036	4.039	-0.003	5167682	206.945	36.4	141.00-	181.00	147.03
4.104	4.107	-0.003	2941217	204.171	36.0	70.55-	110.55	83.68
4.248	4.249	-0.001	2863700	198.447	35.0	73.92-	113.92	81.48
Average of Peak Concentrations =					35.9			

Data File: /chem/ecda.i/022610.b/047f4701.d

Date: 26-FEB-2010 15:00

Client ID: RE15-10-8342MS

Sample Info: 11202052486151

Volume Injected (uL): 1.0

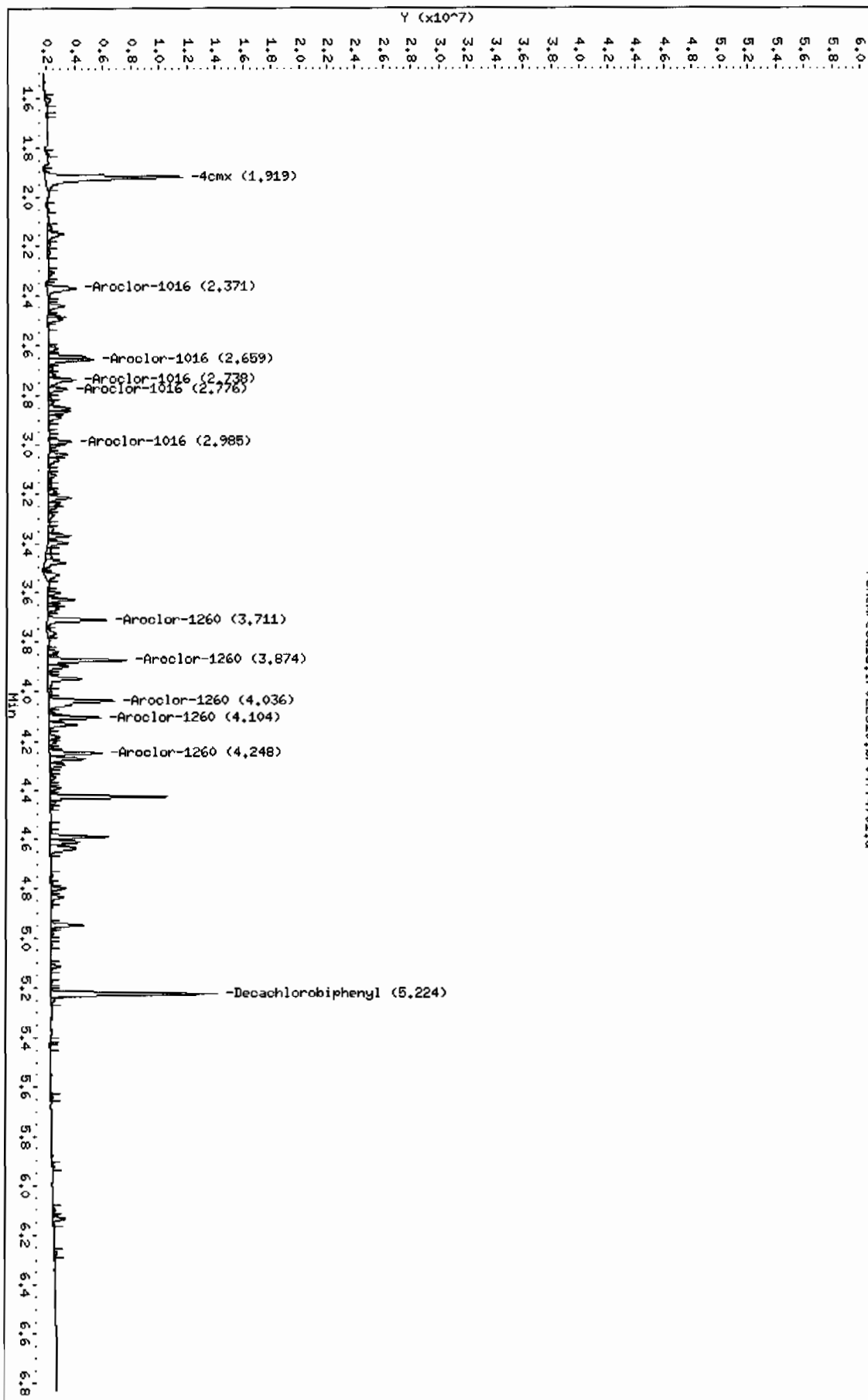
Column phase: CLP1

Instrument: ecda.i

Operator: YS1

Column diameter: 0.25

/chem/ecda.i/022610.b/047f4701.d



Data File: /chem/ecdla.i/022610.b/047b4701.d
Report Date: 01-Mar-2010 06:18

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022610.b/047b4701.d
Lab Smp Id: 1202052486 Client Smp ID: RE15-10-8342MS
Inj Date : 26-FEB-2010 15:00
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202052486|5|
Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecdla.i/022610.b/ECD1-B-8082-022210.m
Meth Date : 01-Mar-2010 06:02 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 47 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 10-1905.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.39600	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.278	2.276	0.002	6394821	21.5026	3.8	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.920	5.922	-0.002	6527396	30.8626	5.4	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.173	3.173	0.000	1975070	154.426	27.2	80.00- 120.00	100.00
3.255	3.256	-0.001	1446963	162.253	28.6	46.87- 86.87	73.26
3.319	3.319	0.000	1082350	200.212	35.3	21.67- 61.67	54.80
3.545	3.547	-0.002	1153734	166.830	29.4	32.51- 72.51	58.41

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
3.620	3.623	-0.003	800089	124.523	21.9	39.64-	79.64	40.51
Average of Peak Concentrations =					28.5			

7 Aroclor-1260					CAS #: 11096-82-5			
4.311	4.313	-0.002	2535804	192.024	33.8	80.00-	120.00	100.00
4.435	4.438	-0.003	2858638	183.637	32.4	103.03-	143.03	112.73
4.702	4.704	-0.002	2283545	192.810	34.0	72.18-	112.18	90.05
4.875	4.877	-0.002	2208671	181.021	31.9	75.21-	115.21	87.10
5.022	5.024	-0.002	4910781	185.123	32.6	193.96-	233.96	193.66
Average of Peak Concentrations =					32.9			

Data File: /chem/ecod1a.1/022610.b/047b4701.d

Date: 26-FEB-2010 15:00

Client ID: RE15-10-8342MS

Sample Info: 11202062486151

Volume Injected (ul): 1.0

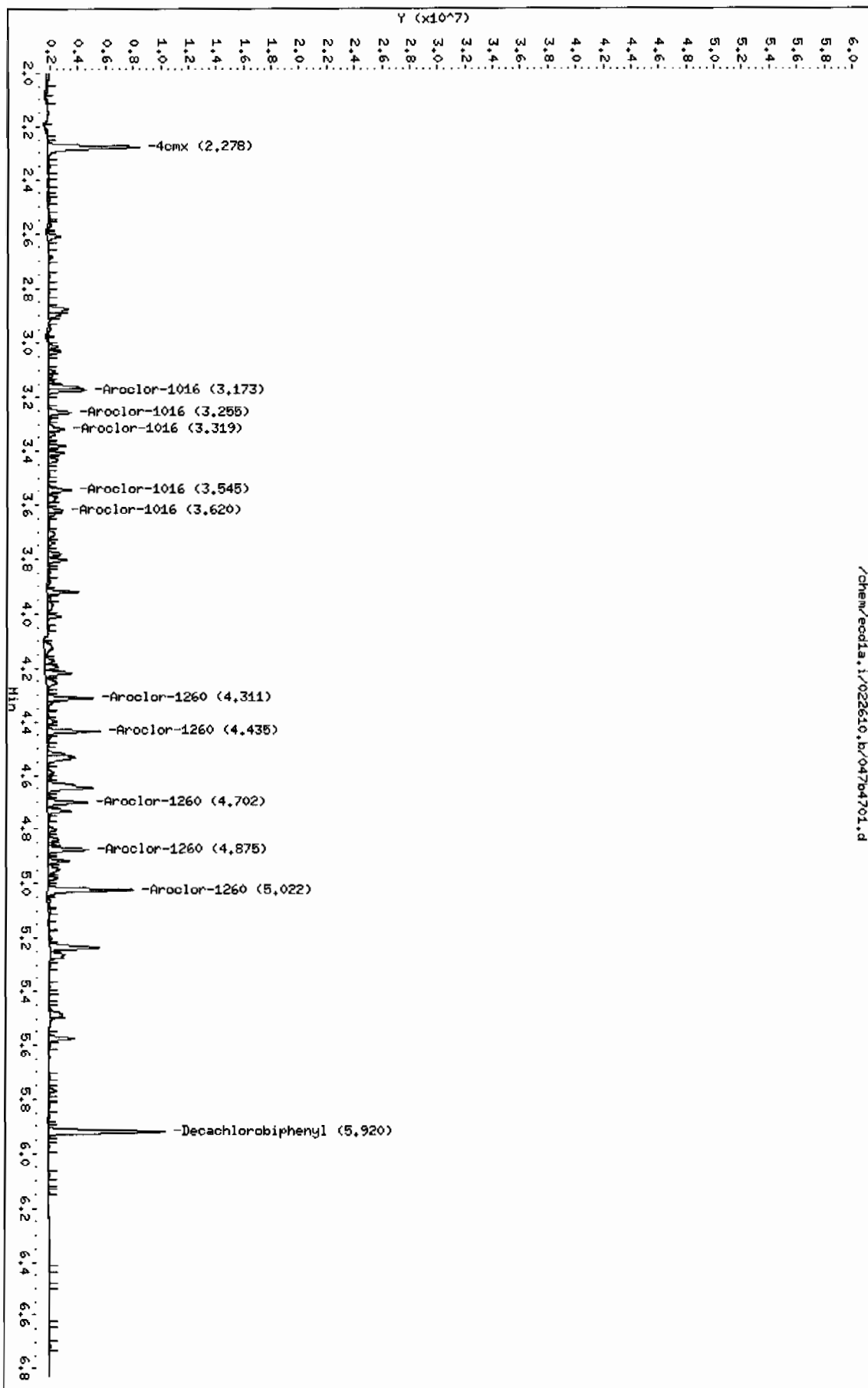
Column phase: CLP2

Instrument: ecod1a.i

Operator: YSI

Column diameter: 0.25

Page 1



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1905
Lab Sample ID: 1202052487
Client Sample: QC for batch 957230
Client ID: RE15-10-8342MSD
Batch ID: 957231
Run Date: 02/26/2010 15:13
Prep Date: 02/25/2010 10:53
Data File: 048f4801.d
048b4801.d

Date Collected: 02/12/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 5.4
Project: QC
SOP Ref: GL-OA-E-040
Dilution: 5
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		22.9	ug/kg	5.87	17.6	1
11104-28-2	Aroclor-1221	U	17.6	ug/kg	5.87	17.6	1
11141-16-5	Aroclor-1232	U	17.6	ug/kg	5.87	17.6	1
53469-21-9	Aroclor-1242	U	17.6	ug/kg	5.87	17.6	1
12672-29-6	Aroclor-1248	U	17.6	ug/kg	5.87	17.6	1
11097-69-1	Aroclor-1254	U	17.6	ug/kg	5.87	17.6	1
11096-82-5	Aroclor-1260		28.1	ug/kg	5.87	17.6	1

Data File: /chem/ecdl1a.i/022610.b/048f4801.d
 Report Date: 01-Mar-2010 06:27

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/048f4801.d
 Lab Smp Id: 1202052487 Client Smp ID: RE15-10-8342MSD
 Inj Date : 26-FEB-2010 15:13
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202052487|5|
 Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|MSD|||
 Comment :
 Method : /chem/ecdl1a.i/022610.b/ECD1-F-8082-022210.m
 Meth Date : 01-Mar-2010 06:19 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 48 QC Sample: MSD
 Dil Factor: 5.00000
 Integrator: Falcon Compound Sublist: 10-1905.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.39600	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
1.918	1.917	0.001	9488931	22.0346	3.9	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.224	5.226	-0.002	7855967	25.5654	4.5	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.370	2.371	-0.001	2052882	133.440	23.5	80.00- 120.00	100.00	
2.658	2.659	-0.001	2386669	130.870	23.0	108.62- 148.62	116.26	
2.738	2.739	-0.001	1584248	131.304	23.1	62.93- 102.93	77.17	
2.775	2.776	-0.001	907249	127.852	22.5	30.56- 70.56	44.19	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====		=====	
1 Aroclor-1016 (continued)									
2.986	2.987	-0.001	1126666	126.419	22.3	44.73-	84.73	54.88	
Average of Peak Concentrations =					22.9				

7 Aroclor-1260					CAS #: 11096-82-5				
3.712	3.714	-0.002	2803534	164.214	28.9	80.00-	120.00	100.00	
3.874	3.876	-0.002	3794699	160.497	28.3	129.59-	169.59	135.35	
4.036	4.039	-0.003	3821934	153.053	27.0	141.00-	181.00	136.33	
4.104	4.107	-0.003	2328085	161.609	28.5	70.55-	110.55	83.04	
4.247	4.249	-0.002	2281784	158.122	27.8	73.92-	113.92	81.39	
Average of Peak Concentrations =					28.1				

Data File: /chem/eodla.i/022610.b/048f4801.d

Date : 26-FEB-2010 15:13

Client ID: RE15-10-8342MSD

Sample Info: 11202052487151

Volume Injected (uL): 1.0

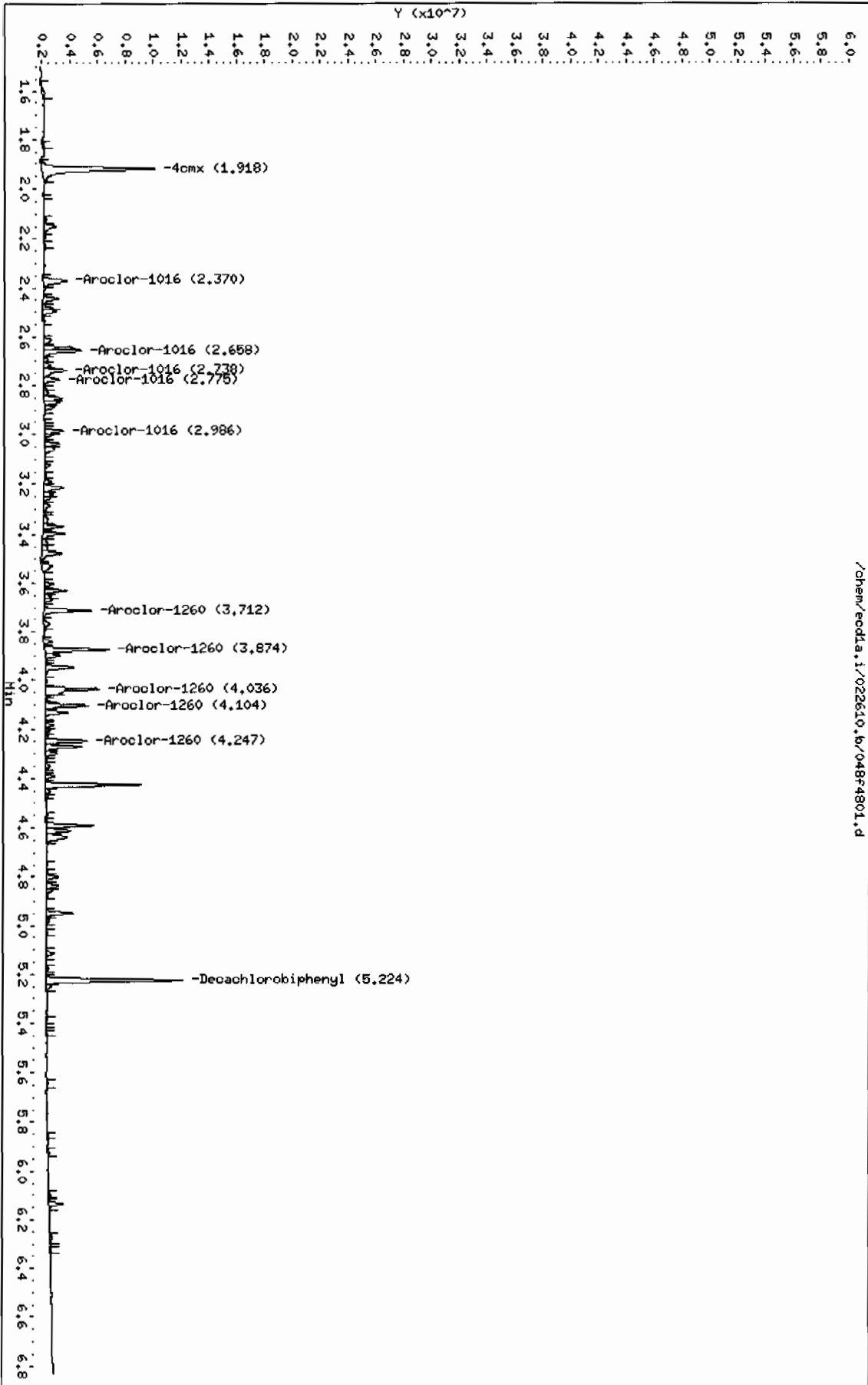
Column phase: CLP1

Instrument: eodla.i

Operator: YSL

Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022610.b/048b4801.d
 Lab Smp Id: 1202052487 Client Smp ID: RE15-10-8342MSD
 Inj Date : 26-FEB-2010 15:13
 Operator : YSl Inst ID: ecd1a.i
 Smp Info : |1202052487|5|
 Misc Info : |ECD82P_1S|957231|SVA|QC A|SOIL|MSD|||
 Comment :
 Method : /chem/ecdl1a.i/022610.b/ECD1-B-8082-022210.m
 Meth Date : 01-Mar-2010 06:02 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 48 QC Sample: MSD
 Dil Factor: 5.00000
 Integrator: Falcon Compound Sublist: 10-1905.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.39600	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
11	2.277	2.276	0.001	5722665	19.2425	3.4 80.00- 120.00	100.00
CAS #: 877-09-8							
12	5.920	5.922	-0.002	5527070	26.1329	4.6 80.00- 120.00	100.00
CAS #: 2051-24-3							
1	3.172	3.173	-0.001	1690526	132.178	23.3 80.00- 120.00	100.00
	3.255	3.256	-0.001	1240394	139.090	24.5 46.87- 86.87	73.37
	3.319	3.319	0.000	951629	176.032	31.0 21.67- 61.67	56.29
	3.546	3.547	-0.001	993832	143.708	25.3 32.51- 72.51	58.79
CAS #: 12674-11-2							

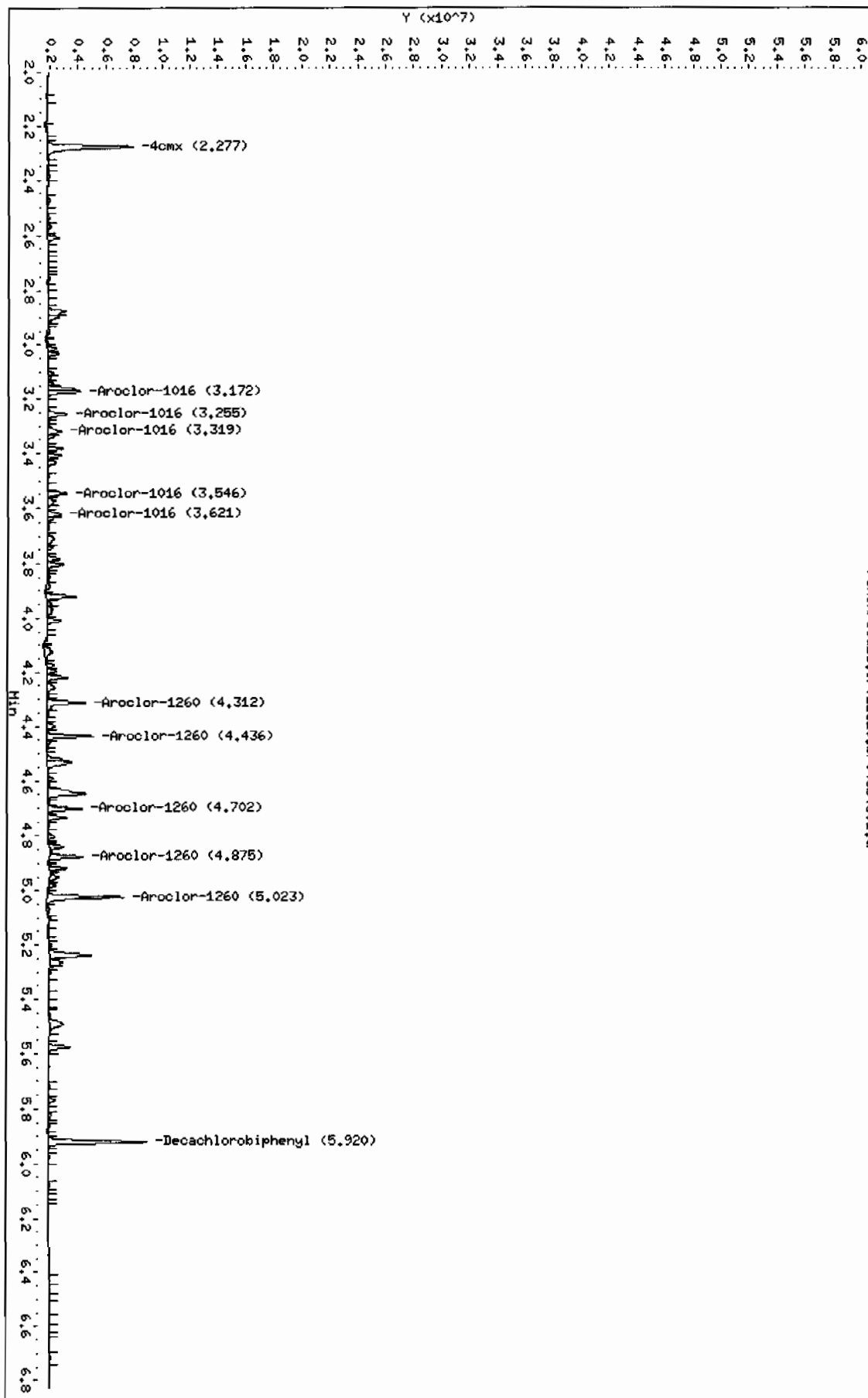
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.621	3.623	-0.002	795175	123.759	21.8	39.64-	79.64	47.04
Average of Peak Concentrations =					25.2			

7 Aroclor-1260					CAS #: 11096-82-5			
4.312	4.313	-0.001	2272025	172.050	30.3	80.00-	120.00	100.00
4.436	4.438	-0.002	2300707	147.796	26.0	103.03-	143.03	101.26
4.702	4.704	-0.002	1759302	148.546	26.2	72.18-	112.18	77.43
4.875	4.877	-0.002	1716986	140.723	24.8	75.21-	115.21	75.57
5.023	5.024	-0.001	4205577	158.538	27.9	193.96-	233.96	185.10
Average of Peak Concentrations =					27.0			

Data File: /chem/eodla.i/022610.b/048b4801.d
Date: 26-FEB-2010 15:13
Client ID: REL5-10-8342MSD
Sample Info: 11202052487151
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eodla.i
Operator: YSI
Column diameter: 0.25

/chem/eodla.i/022610.b/048b4801.d



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/23/2010

METHOD: ECD1-F-8082-022210.m

OPERATOR:YS1

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/022210.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100219-99 01	YS1	122-FEB-2010 05:59		022210	1.00	CLEAN	
002f0201.d	WAR100203-60 01	YS1	122-FEB-2010 06:10		022210	1.00	DOSE RE-CAL	
003f0301.d	AR1660-4	YS1	122-FEB-2010 06:20		022210	1.00	DOSE SCREEN	
004f0401.d	WAR091219-DDT	YS1	122-FEB-2010 06:31		022210	1.00	DOT ANALOG STANDARD	
005f0501.d	WAR100104-32	YS1	122-FEB-2010 06:41		022210	1.00	PATTERN ONLY	
006f0601.d	WAR100104-21	YS1	122-FEB-2010 06:52		022210	1.00	PATTERN ONLY	
007f0701.d	WAR100104-62	YS1	122-FEB-2010 07:03		022210	1.00	PATTERN ONLY	
008f0801.d	WAR100222-01 60	YS1	122-FEB-2010 07:13		022210	1.00	AR1660 I-CAL LEVEL 1	
009f0901.d	WAR100222-02 60	YS1	122-FEB-2010 07:24		022210	1.00	AR1660 I-CAL LEVEL 2	
010f1001.d	WAR100222-03 60	YS1	122-FEB-2010 07:34		022210	1.00	AR1660 I-CAL LEVEL 3	
011f1101.d	WAR100222-04 60	YS1	122-FEB-2010 07:45		022210	1.00	AR1660 I-CAL LEVEL 4	
012f1201.d	WAR100104-01	YS1	122-FEB-2010 07:55		022210	1.00	AR1660 I-CAL LEVEL 5	
013f1301.d	WAR100203-60 01	YS1	122-FEB-2010 08:06		022210	1.00	PASSED ON BOTH COLUMNS	
014f1401.d	WAR100222-05 54	YS1	122-FEB-2010 08:16		022210	1.00	AR1254 I-CAL LEVEL 1	
015f1501.d	WAR100222-06 54	YS1	122-FEB-2010 08:27		022210	1.00	AR1254 I-CAL LEVEL 2	

Instrument Batch: /chem/ecd1a.i/022210.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1601.d	WAR100222-07 54	YS1	22-FEB-2010 08:37	022210	1.01	ARI254 I-CAL LEVEL 3
1017f1701.d	WAR100222-08 54	YS1	22-FEB-2010 08:48	022210	1.01	ARI254 I-CAL LEVEL 4
1018f1801.d	IAR100219-02	YS1	22-FEB-2010 08:59	022210	1.01	ARI254 I-CAL LEVEL 5
1019f1901.d	WAR100219-54	YS1	22-FEB-2010 09:09	022210	1.01	PASSED ON BOTH COLUMNS
1020f2001.d	WAR100222-09 42	YS1	22-FEB-2010 09:20	022210	1.01	ARI242 I-CAL LEVEL 1
1021f2101.d	WAR100222-10 42	YS1	22-FEB-2010 09:30	022210	1.01	ARI242 I-CAL LEVEL 2
1022f2201.d	WAR100222-11 42	YS1	22-FEB-2010 09:41	022210	1.01	ARI242 I-CAL LEVEL 3
1023f2301.d	WAR100222-12 42	YS1	22-FEB-2010 09:51	022210	1.01	ARI242 I-CAL LEVEL 4
1024f2401.d	IAR100219-01	YS1	22-FEB-2010 10:02	022210	1.01	ARI242 I-CAL LEVEL 5
1025f2501.d	WAR100219-42	YS1	22-FEB-2010 10:12	022210	1.01	PASSED ON BOTH COLUMNS
1026f2601.d	WAR100222-13 48	YS1	22-FEB-2010 10:23	022210	1.01	ARI248 I-CAL LEVEL 1
1027f2701.d	WAR100222-14 48	YS1	22-FEB-2010 10:33	022210	1.01	ARI248 I-CAL LEVEL 2
1028f2801.d	WAR100222-15 48	YS1	22-FEB-2010 10:44	022210	1.01	ARI248 I-CAL LEVEL 3
1029f2901.d	IAR100211-01	YS1	22-FEB-2010 10:54	022210	1.01	ARI248 I-CAL LEVEL 5
1030f3001.d	WAR100222-16	YS1	22-FEB-2010 11:05	022210	1.01	ARI248 I-CAL LEVEL 4
1031f3101.d	WAR091217-48	YS1	22-FEB-2010 11:16	022210	1.01	PASSED ON BOTH COLUMNS
1032f3201.d	WAR100222-17 68	YS1	22-FEB-2010 11:26	022210	1.01	ARI268 I-CAL LEVEL 1
1033f3301.d	WAR100222-18 68	YS1	22-FEB-2010 11:37	022210	1.01	ARI268 I-CAL LEVEL 2
1034f3401.d	WAR100222-19 68	YS1	22-FEB-2010 11:47	022210	1.01	ARI268 I-CAL LEVEL 3
1035f3501.d	WAR100222-20 68	YS1	22-FEB-2010 11:58	022210	1.01	ARI268 I-CAL LEVEL 4

Instrument Batch: /chem/ecdl1a.i/022210.b

Page: 2

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	IAR100104-05	YS1	22-FEB-2010 12:08		022210	1.0	AR:268 I-CAL LEVEL 5	
1037f3701.d	WAR100107-68	YS1	22-FEB-2010 12:19		022210	1.01	PASSED ON BOTH COLUMNS	
1038f3801.d	WAR100219-99 02	YS1	22-FEB-2010 12:29		022210	1.01	CLEAN	
1039f3901-1.d	11202046866	YS1	22-FEB-2010 12:40	954781	10-1846	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
1039f3901-2.d	11202046866	YS1	22-FEB-2010 12:40	954781	10-1848	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	

039f3901.d	1202046866	YS1	22-FEB-2010 12:40	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001-1.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1846	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001-2.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1848	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
041f4101.d	246968001	YS1	22-FEB-2010 13:01	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
042f4201.d	246968002	YS1	22-FEB-2010 13:14	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
043f4301.d	246968003	YS1	22-FEB-2010 13:26	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
044f4401.d	246968004	YS1	22-FEB-2010 13:39	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
045f4501.d	246968005	YS1	22-FEB-2010 13:51	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
046f4601.d	246968006	YS1	22-FEB-2010 14:04	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
047f4701.d	246968007	YS1	22-FEB-2010 14:17	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
048f4801.d	246968008	YS1	22-FEB-2010 14:30	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	WAR100203-60 02	YS1	22-FEB-2010 14:42		022210	1.0	PASSED ON BOTH COLUMNS
050f5001.d	WAR100219-99 03	YS1	22-FEB-2010 14:53		022210	1.0	CLEAN
051f5101.d	246968009	YS1	22-FEB-2010 15:03	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecd1a.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
052f5201.d	246968010	YS1	22-FEB-2010 15:16	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
053f5301.d	246968011	YS1	22-FEB-2010 15:28	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
054f5401.d	246968012	YS1	22-FEB-2010 15:41	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
055f5501.d	246968013	YS1	22-FEB-2010 15:54	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
056f5601.d	246968014	YS1	22-FEB-2010 16:06	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
057f5701.d	246968015	YS1	22-FEB-2010 16:19	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
058f5801.d	246968016	YS1	22-FEB-2010 16:32	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
059f5901.d	246968017	YS1	22-FEB-2010 16:44	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
060f6001.d	247121002	YS1	22-FEB-2010 16:57	954781	10-1846	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	

1061f6101.d	WAR100203-60 03	YS1	22-FEB-2010 17:10		1022210	1.01	PASSED ON BOTH COLUMNS
1062f6201.d	WAR100219-99 04	YS1	22-FEB-2010 17:22		1022210	1.01	CLEAN
1063f6301.d	247123001	YS1	22-FEB-2010 17:35	954781	110-1848	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1064f6401.d	1202046868	YS1	22-FEB-2010 17:48	954781	110-1848	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1065f6501.d	1202046869	YS1	22-FEB-2010 18:00	954781	110-1848	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1066f6601.d	WAR100203-60 04	YS1	22-FEB-2010 18:13		1022210	1.01	PASSED ON BOTH COLUMNS
1067f6701.d	WAR100219-99 05	YS1	22-FEB-2010 18:26		1022210	1.01	CLEAN
1068f6801.d	1202048527	YS1	22-FEB-2010 18:38	955479	110-1818	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1069f6901.d	1202048528	YS1	22-FEB-2010 18:51	955479	110-1818	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1070f7001.d	247043003	YS1	22-FEB-2010 19:04	955479	110-1818	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1071f7101.d	1202048529	YS1	22-FEB-2010 19:16	955479	110-1818	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER

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Instrument Batch: /chem/ecdl1.i/1022210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1072f7201.d	1202048530	YS1	22-FEB-2010 19:29	955479	110-1818	1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER
1073f7301.d	247043004	YS1	22-FEB-2010 19:42	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1074f7401.d	247043005	YS1	22-FEB-2010 19:54	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1075f7501.d	247043006	YS1	22-FEB-2010 20:07	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1076f7601.d	247043007	YS1	22-FEB-2010 20:20	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1077f7701.d	247043008	YS1	22-FEB-2010 20:32	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1078f7801.d	WAR100203-60 05	YS1	22-FEB-2010 20:45		1022210	1.01		PASSED ON BOTH COLUMNS
1079f7901.d	WAR100219-99 06	YS1	22-FEB-2010 20:58		1022210	1.01		CLEAN
1080f8001.d	247043009	YS1	22-FEB-2010 21:10	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1081f8101.d	247043010	YS1	22-FEB-2010 21:23	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1082f8201.d	247043011	YS1	22-FEB-2010 21:35	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1083f8301.d	247043012	YS1	22-FEB-2010 21:48	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1084f8401.d	247043013	YS1	22-FEB-2010 22:01	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1085f8501.d	247043014	YS1	22-FEB-2010 22:13	955479	110-1818	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER

086f8601.d	247043015	Y51	22-FEB-2010 22:26	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
087f8701.d	247043016	Y51	22-FEB-2010 22:39	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
088f8801.d	247043017	Y51	22-FEB-2010 22:51	955479	10-1818	1.0	LANL	SURROGATE LOW RE
089f8901.d	247043018	Y51	22-FEB-2010 23:04	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
090f9001.d	WARI00203-60 06	Y51	22-FEB-2010 23:17		102210	1.0		PASSED ON BOTH COLUMNS
091f9101.d	WARI00219-99 07	Y51	22-FEB-2010 23:29		102210	1.0		CLEAN

Instrument Batch: /chem/ecdl1a.i/022210.b Page: 5

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
092f9201.d	11660	Y51	22-FEB-2010 23:42		102210	1.0		DUSE SCREEN
093f9301.d	11660-4	Y51	22-FEB-2010 23:55		102210	1.0		DUSE SCREEN

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 03/01/2010

METHOD: ECD1-F-8082-022210.m

OPERATOR:YS1

REVIEWED BY:

DATE:

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA936
ALUMINA LOT 1273992-A
COPPER LOT 1249397-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/0222610.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100219-99 01	YS1	126-FEB-2010 06:13		1022610	1.01	CLEAN	
002f0201.d	WAR100222-60 01	YS1	126-FEB-2010 06:24		1022610	1.01	DOSE RR FILE 7	
003f0301.d	WAR100219-94	YS1	126-FEB-2010 06:34		1022610	1.01	PASSED ON BOTH COLUMNS	
004f0401.d	WAR100219-42	YS1	126-FEB-2010 06:45		1022610	1.01	PASSED ON BOTH COLUMNS	
005f0501.d	WAR100223-48	YS1	126-FEB-2010 06:55		1022610	1.01	PASSED ON BOTH COLUMNS	
006f0601.d	WAR100107-68	YS1	126-FEB-2010 07:06		1022610	1.01	PASSED ON BOTH COLUMNS	
007f0701.d	WAR100222-60 01	YS1	126-FEB-2010 07:16		1022610	1.01	PASSED ON BOTH COLUMNS	
008f0801.d	WAR100104-32	YS1	126-FEB-2010 07:27		1022610	1.01	PATTERN ONLY	
009f0901.d	WAR100104-21	YS1	126-FEB-2010 07:37		1022610	1.01	PATTERN ONLY	
010f1001.d	WAR100104-62	YS1	126-FEB-2010 07:48		1022610	1.01	PATTERN ONLY	
011f1101.d	WAR091219-DDT	YS1	126-FEB-2010 07:58		1022610	1.01	DDT ANALOG STANDARD	
012f1201.d	WAR100219-99 02	YS1	126-FEB-2010 08:09		1022610	1.01	CLEAN	
013f1301.d	1247936001	YS1	126-FEB-2010 08:19	957235	1247936	100.01WSRB	UPLOAD BOTH COLUMNS, USE HIGHER	
014f1401.d	11202052495	YS1	126-FEB-2010 08:30	957235	1247936	100.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
015f1501.d	11202052496	YS1	126-FEB-2010 08:43	957235	1247936	100.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	

Instrument Batch: /chem/ecd1a.i/0222610.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR100222-60 02	YS1	126-FEB-2010 08:55		022610		1.0	PASSED ON BOTH COLUMNS
017f1701.d	WAR100219-99 03	YS1	126-FEB-2010 09:06		022610		1.0	CLEAN
018f1801.d	1202052477	YS1	126-FEB-2010 09:16		957228		MMR09-053 1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
019f1901.d	1202052478	YS1	126-FEB-2010 09:27		957228		MMR09-053 1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
020f2001.d	1202052479	YS1	126-FEB-2010 09:37		957228		MMR09-053 1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
021f2101.d	1247750002	YS1	126-FEB-2010 09:48		957228		MMR09-053 1.0 PAES	UPLOAD BOTH COLUMNS, USE HIGHER
022f2201.d	1247750003	YS1	126-FEB-2010 09:58		957228		MMR09-053 1.0 PAES	SURROGATE LOW RE
023f2301.d	1202052694	YS1	126-FEB-2010 10:09		957334		022610 1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
024f2401.d	1202052695	YS1	126-FEB-2010 10:19		957334		1247838 1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
025f2501.d	1247838002	YS1	126-FEB-2010 10:30		957334		1247838 5.0 GEIC	UPLOAD BOTH COLUMNS, USE HIGHER
026f2601.d	1202052696	YS1	126-FEB-2010 10:42		957334		1247838 5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
027f2701.d	1202052697	YS1	126-FEB-2010 10:55		957334		1247838 5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
028f2801.d	WAR100222-60 03	YS1	126-FEB-2010 11:09		022610		1.0	PASSED ON BOTH COLUMNS
029f2901.d	WAR100219-99 04	YS1	126-FEB-2010 11:20		022610		1.0	CLEAN
030f3001.d	1202052484	YS1	126-FEB-2010 11:30		957231		10-1879 1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
031f3101.d	1202052485	YS1	126-FEB-2010 11:43		957231		10-1879 1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
032f3201.d	1247255001	YS1	126-FEB-2010 11:55		957231		10-1879 1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
033f3301.d	1247255002	YS1	126-FEB-2010 12:08		957231		10-1879 5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
034f3401.d	1247255003	YS1	126-FEB-2010 12:21		957231		10-1879 5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
035f3501.d	1247255004	YS1	126-FEB-2010 12:33		957231		10-1879 1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/022610.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	1247255005	YS1	126-FEB-2010 12:46	957231	10-1879		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1037f3701.d	1247319001	YS1	126-FEB-2010 12:59	957231	10-1892		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1038f3801.d	1247319002	YS1	126-FEB-2010 13:11	957231	10-1892		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1039f3901.d	1247319003	YS1	126-FEB-2010 13:24	957231	10-1892		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	WAR100222-60 04	YS1	126-FEB-2010 13:36		022610		1.0	PASSED ON BOTH COLUMNS

041f4101.d	WAR100219-99 05	YS1	26-FEB-2010 13:47		022610	1.0	CLEAN
042f4201.d	247319004	YS1	26-FEB-2010 13:58	957231	10-1892	10.0	UPLOAD BOTH COLUMNS, USE HIGHER
043f4301.d	247319005	YS1	26-FEB-2010 14:10	957231	10-1892	10.0	UPLOAD BOTH COLUMNS, USE HIGHER
044f4401.d	247319006	YS1	26-FEB-2010 14:23	957231	10-1892	5.0	UPLOAD BOTH COLUMNS, USE HIGHER
045f4501.d	247319007	YS1	26-FEB-2010 14:35	957231	10-1892	10.0	UPLOAD BOTH COLUMNS, USE HIGHER
046f4601.d	247332006	YS1	26-FEB-2010 14:48	957231	10-1905	5.0	UPLOAD BOTH COLUMNS, USE HIGHER
047f4701.d	202052486	YS1	26-FEB-2010 15:00	957231	10-1905	5.0	QC A UPLOAD BOTH COLUMNS, USE HIGHER
048f4801.d	202052487	YS1	26-FEB-2010 15:13	957231	10-1905	5.0	QC A UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	247332007	YS1	26-FEB-2010 15:26	957231	10-1905	1.0	LANL UPLOAD BOTH COLUMNS, USE HIGHER
050f5001.d	247332008	YS1	26-FEB-2010 15:38	957231	10-1905	1.0	LANL UPLOAD BOTH COLUMNS, USE HIGHER
051f5101.d	WAR100222-60 05	YS1	26-FEB-2010 15:51		022610	1.0	PASSED ON BOTH COLUMNS
052f5201.d	WAR100219-99 06	YS1	26-FEB-2010 16:03		022610	1.0	CLEAN
053f5301.d	202053872	YS1	26-FEB-2010 16:16	957825	10-1879	1.0	QC A UPLOAD BOTH COLUMNS, USE HIGHER
054f5401.d	202053873	YS1	26-FEB-2010 16:29	957825	10-1879	1.0	QC A UPLOAD BOTH COLUMNS, USE HIGHER
055f5501.d	247462001	YS1	26-FEB-2010 16:41	957825	10-1940	10.0	LANL UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/022610.b

Data File	GL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
056f5601.d	247462002	YS1	26-FEB-2010 16:54	957825	10-1940	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
057f5701.d	247462003	YS1	26-FEB-2010 17:07	957825	10-1940	10.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
058f5801.d	247462004	YS1	26-FEB-2010 17:19	957825	10-1940	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
059f5901.d	247462005	YS1	26-FEB-2010 17:32	957825	10-1940	10.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
060f6001.d	247462006	YS1	26-FEB-2010 17:45	957825	10-1940	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
061f6101.d	WAR100222-60 06	YS1	26-FEB-2010 17:57		022610	1.0		PASSED ON BOTH COLUMNS
062f6201.d	WAR100219-99 07	YS1	26-FEB-2010 18:10		022610	1.0		CLEAN
063f6301.d	247467001	YS1	26-FEB-2010 18:22	957825	10-1943	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	247467002	YS1	26-FEB-2010 18:35	957825	10-1943	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

065f6501.d	1247467003	YS1	126-FEB-2010 18:48	957825	110-1943	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
066f6601.d	1247562008	YS1	126-FEB-2010 19:00	957825	110-1950	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
067f6701.d	1247562009	YS1	126-FEB-2010 19:13	957825	110-1950	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
068f6801.d	1247784002	YS1	126-FEB-2010 19:26	957825	110-1979	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
069f6901.d	1202053874	YS1	126-FEB-2010 19:38	957825	110-1879	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
070f7001.d	1202053875	YS1	126-FEB-2010 19:51	957825	110-1879	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
071f7101.d	1247855002	YS1	126-FEB-2010 20:03	957825	110-1978	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
072f7201.d	1247855002	YS1	126-FEB-2010 20:16	1022610	1.0		PASSED ON BOTH COLUMNS
073f7301.d	1247855002	YS1	126-FEB-2010 20:29	1022610	1.0		CLEAN
074f7401.d	1247855002	YS1	126-FEB-2010 20:41	1022610	1.0		NEW ALUMINA SCREEN. GOOD
075f7501.d	1247855002	YS1	126-FEB-2010 20:54	1022610	1.0		1A1660

Instrument Batch: /chem/ecd1a.i/022610.b

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Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 957230
Analyst: Robin Hunt
Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202052484 MB	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
1202052485 LCS	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
247255001	25-FEB-2010 10:53:00	30.02	H2SO4/KMn	1	8	1	0.03331	
247255002	25-FEB-2010 10:53:00	30.04	H2SO4/KMn	1	8	1	0.03329	
247255003	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
247255004	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
247255005	25-FEB-2010 10:53:00	30.09	H2SO4/KMn	1	8	1	0.03323	
247319001	25-FEB-2010 10:53:00	30.01	H2SO4/KMn	1	8	1	0.03332	
247319002	25-FEB-2010 10:53:00	30.03	H2SO4/KMn	1	8	1	0.0333	
247319003	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
247319004	25-FEB-2010 10:53:00	30.01	H2SO4/KMn	1	8	1	0.03332	
247319005	25-FEB-2010 10:53:00	30.08	H2SO4/KMn	1	8	1	0.03324	
247319006	25-FEB-2010 10:53:00	30.01	H2SO4/KMn	1	8	1	0.03332	
247319007	25-FEB-2010 10:53:00	30.01	H2SO4/KMn	1	8	1	0.03332	
247332006	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
1202052486 MS (247332006)	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
1202052487 MSD (247332006)	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
247332007	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
247332008	25-FEB-2010 10:53:00	30	H2SO4/KMn	1	8	1	0.03333	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202052485	PCB Laboratory Control	WE100210-07	1	mL	Clean up Date: 02/25/2010		
MS	1202052486	PCB Laboratory Control	WE100210-07	1	mL	Clean up Initials: RWH		
MSD	1202052487	PCB Laboratory Control	WE100210-07	1	mL	Verified By: JAM		
SURR	ALL	PEST LOW LEVEL SURROGATE 200 UG/L	UE091217-15	1	mL	Final Solvent: Hexane		
REGNT	ALL	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037		
REGNT	ALL	Hexane	1273338-B2	150	mL			
REGNT	ALL	Acetone	1273739-B1	150	mL			
REGNT	ALL	5% Potassium Permanganate	B1275177-F	5	mL			
SOURC	ALL	SODIUM SULFATE	1274910	30	g			