

Monday, February 22, 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: 2/22/2010

TURNAROUND/REPORT DUE: 3/24/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY METHOD CODE

CNTNR SAMPLE ID

SAMPLE
MATRIX

DATE SAMPLED

SPECIAL
INSTRUCTIONS

SW-B46:8082

1 RE15-10-8255

R 2/16/2010

1 RE15-10-8256

R 2/16/2010

1 RE15-10-8257

R 2/16/2010

1 RE15-10-8258

R 2/16/2010

1 RE15-10-8259

R 2/16/2010

1 RE15-10-8260

R 2/16/2010

1 RE15-10-8261

R 2/16/2010

1 RE15-10-8262

R 2/16/2010

1 RE15-10-8263

R 2/16/2010

These Samples are on:

LANL Request Number: 10-1972

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Monday, February 22, 2010

REQUEST NUMBER: 10-1972

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD		1	RE15-10-8265	R	2/16/2010	
		1	RE15-10-8269	R	2/16/2010	
		1	RE15-10-8255	R	2/16/2010	
		1	RE15-10-8256	R	2/16/2010	
		1	RE15-10-8257	R	2/16/2010	
		1	RE15-10-8258	R	2/16/2010	
		1	RE15-10-8259	R	2/16/2010	
		1	RE15-10-8260	R	2/16/2010	
		1	RE15-10-8261	R	2/16/2010	
		1	RE15-10-8262	R	2/16/2010	
		1	RE15-10-8263	R	2/16/2010	
		1	RE15-10-8265	R	2/16/2010	
		1	RE15-10-8269	R	2/16/2010	

Final Page of REQUEST NUMBER 10-1972

Monday, February 22, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1972

LOS ALAMOS

REQUEST NUMBER: 10-1972

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/24/2010

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
RE15-10-8259	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8261	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8257	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8260	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8258	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8263	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8255	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8256	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8262	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8265	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8269	1	AMBER GLASS	8082+NMED-HEXP	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: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8255

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		844		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610820	↓		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	BH		FIELD PREP:	NA		↓
TOP DEPTH:	0	2/16/10 73M 48.0 48.5		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	50.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	YES			BOREHOLE DECLINATION:	-90		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	73M 2/16/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice		
1		H3	500 ML POLY	Ice		
1		Metals+ClO4+CN	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC:

Pinkish gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7d.2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 25 dpm
Beta/Gamma \leq 2.10 dpm

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

73M 2/16/10

COLLECTED BY (PRINT)

ThMcFarland

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) (Signature) Jay W. W.	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8256

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/16/2010	MEDIA:	OBT3	OK
TIME COLLECTED(HH:MM)		0907	SUB-MEDIA:	TUFF 1	J
PRS ID:	15-007(d)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610820	OK	FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC	BH	FIELD PREP:	NA	J
TOP DEPTH:	0	63.5	SAMPLE USAGE:	INV	NA
BOTTOM DEPTH:	0	65.0	SCREEN/PORT DESC:		
FIELD MATRIX:	R	R	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION: $130^{\circ} \pm 216/10$		
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	73m 2/16/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light Gray, buff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 15 dpm
Beta/Gamma ≤ 1898 dpm

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

73m 2/16/10

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

SON MARIN

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) (Signature) Joy Wg	Date/Time 2/17/10 808
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8257

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		0928		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-007(d)		OK	SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610820		OK	FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC		BH	FIELD PREP:	NA		↓
TOP DEPTH:	0		79.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		80.0	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		R	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	YES			BOREHOLE DECLINATION:	-90		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: light gray nonindurated tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 30 dpm
Beta/Gamma \leq 2.09 dpm

PID $\frac{\text{Ambient Reading}}{72m \ 2/16/10} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J MARIN

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) Jay W (Signature) Jay W	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8258

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010	MEDIA:	OBT3		OK	
TIME COLLECTED (HH:MM)		0952	SUB-MEDIA:	TUFF 1		↓	
PRS ID:	15-007(d)	OK	SAMPLE TECH CODE:	HA		CBS	
LOCATION ID:	15-610820	↓	FIELD QC TYPE:	NA		OK	
LOCATION TYPE:	GENERIC	B4	FIELD PREP:	NA		↓	
TOP DEPTH:	0	93.5	SAMPLE USAGE:	INV		↓	
BOTTOM DEPTH:	0	95.0	SCREEN/PORT DESC:			NA	
FIELD MATRIX:	R	R	EXCAVATED: YES/NO/NA				
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA	
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	-90		BOREHOLE DIRECTION:	NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	72m 2/16/10 8002+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray and white nonindurated tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 30 dpm
Beta/Gamma \pm 2.15 dpm

72m 2/16/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

JON MARIN

RELINQUISHED BY (Printed Name) Rolanda Saunders (Signature) Rolanda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8259

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1017		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610820	L		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	BH		FIELD PREP:	NA		↓
TOP DEPTH:	0	108.5		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	110.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	-90	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	72m 2/16/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

light pinkish gray nonindurated buff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 15 dpm
Beta/Gamma \pm 2.9 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 72m 2/16/10

COLLECTED BY (PRINT)

Th. McFarland

REVIEWED BY (PRINT)

SON MARIN

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) Jeeyll (Signature) Jeeyll	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8260

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/16/2010	MEDIA:	OBT3	73m 2/16/10 -ok Obt 2
TIME COLLECTED (HH:MM)		1055	SUB-MEDIA:	TUFF 1	ok
PRS ID:	15-007(d)	ok	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610820	↓	FIELD QC TYPE:	NA	ok
LOCATION TYPE:	GENERIC	BH	FIELD PREP:	NA	↓
TOP DEPTH:	0	124.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	125.0	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	-90	
			BOREHOLE DIRECTION:	NA	
			WATER FLOWING: YES/NO/NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	73m 2/16/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	y	
1	↓	H3	500 ML POLY	Ice	y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Pebbles gray indurated tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 15 dpm
Beta/Gamma \leq 1648 dpm

PID $\frac{\text{Ambient Reading}}{73m 2/16/10} =$ ppm

COLLECTED BY (PRINT)

i TLMCFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 2/17/10 808
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8261

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA:	QBT3		Qbt2
TIME COLLECTED (HH:MM)		1314		SUB-MEDIA:	TUFF 1		ok
PRS ID:	15-007(d)	ok		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610820	↓		FIELD QC TYPE:	NA		ok
LOCATION TYPE:	GENERIC	BH		FIELD PREP:	NA		↓
TOP DEPTH:	0	138.5		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	140.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA	NO/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	YES	BOREHOLE DECLINATION:	-90	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	72m 2/16/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brownish gray strongly indurated, moderately welded, dehydrified, dy, ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 41 dpm
Beta/Gamma \leq 189 dpm

PID $\frac{\text{Ambient Reading}}{\text{ppm}} = \text{ppm}$ 73m 2/16/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT) J MARRIN

RELINQUISHED BY (Printed Name) Rolanda Saunders (Signature) Rolanda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8262

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA:	QBT3	QBT2	
TIME COLLECTED (HH:MM)		13:59		SUB-MEDIA:	TUFF 1	ok	
PRS ID:	15-007(d)	ok		SAMPLE TECH CODE:	HA	CBS	
LOCATION ID:	15-610820	↓		FIELD QC TYPE:	NA	ok	
LOCATION TYPE:	GENERIC	B4		FIELD PREP:	NA	↓	
TOP DEPTH:	0	153.5 ft		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	155.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	72m 2/16/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light pinkish gray, slightly to moderately indurated, dehydrified, dry, arch flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

51 gpm
Alpha = 51 dpm
Beta/Gamma = 2100 dpm

PID Ambient Reading = ppm
72m 2/16/10

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) J. Marin (Signature) J. Marin	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8263

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA:	QBT3	QBT 2	
TIME COLLECTED (HH:MM)		1430		SUB-MEDIA:	TUFF 1	ok	
PRS ID:	15-007(d)	ok		SAMPLE TECH CODE:	HA	CBS	
LOCATION ID:	15-610820	L		FIELD QC TYPE:	NA	ok	
LOCATION TYPE:	GENERIC	BH		FIELD PREP:	NA	↓	
TOP DEPTH:	0	168.5		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	170.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light reddish brown, slightly indurated, nonwelded, dehydrated, dry, ash flow tuff

SAMPLE COMMENTS:

NA

FR: RE15-10-8272

LOCATION DESC:

7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 51 dpm
Beta/Gamma \leq 2120 dpm

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

73m 2/16/10

COLLECTED BY (PRINT)

PL McFarland

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY (Printed Name) Rolanda Saunders (Signature) Rolanda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) Jayung (Signature) Jayung	Date/Time 2/17/10 808
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8265

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA:	OBT3		Qbtlv
TIME COLLECTED (HH:MM)		1455		SUB-MEDIA:	TUFF 1		ok
PRS ID:	15-007(d)	ok		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	UNK	15-610820		FIELD QC TYPE:	NA		ok
LOCATION TYPE:	GENERIC	BH		FIELD PREP:	NA		↓
TOP DEPTH:	0	178.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	180.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Grayish pink slightly indurated ~~light~~ tan nonwelded
dehydrated, dry, ark flow tuff 2/16/10

FD: RE15-10-8269

SAMPLE COMMENTS:

NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 30 dpm
Beta/Gamma \leq 2040 dpmPID $\frac{\text{Ambient Reading}}{72m 2/16/10} = \text{ppm}$

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) (Signature) Jeyllus	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8269

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/16/2010		MEDIA: QBT3		Qbt/v	
TIME COLLECTED (HH:MM)		1455		SUB-MEDIA: TUFF 1		ok	
PRS ID: 15-007(d)		ok		SAMPLE TECH CODE: HA		CBS	
LOCATION ID: UNK		15-610820		FIELD QC TYPE: ED		ok	
LOCATION TYPE: GENERIC		BH		FIELD PREP: NA		↓	
TOP DEPTH: 0		178.0		SAMPLE USAGE: QC		↓	
BOTTOM DEPTH: 0		180.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO/NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-8265

Grayish pink slightly indurated, non welded, deoitrified, dry ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 30 dpm
Beta/Gamma \leq 2070dpm

PID $\frac{\text{Ambient Reading}}{\text{ppm}} = 73m \text{ } 2/16/10$

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) Rolanda Saunders (Signature) Rolanda Saunders	Date/Time 2/17/10 7:40	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 2/17/10 805
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8272

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	02/16/2010	MEDIA:	NA
TIME COLLECTED (HH:MM)	1500	SUB-MEDIA:	OTHER
PRS ID: 15-007(d)	OK	SAMPLE TECH CODE:	DC
LOCATION ID: UNK	15-610820	FIELD QC TYPE:	FR
LOCATION TYPE: GENERIC	BH	FIELD PREP:	UF
TOP DEPTH: 0	OK	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: -90'	BOREHOLE DIRECTION: NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	METALS-GEL	1 LITER POLY	Nitric Acid	Y	
1	↓	SW-846:6850	250 ML POLY	Ice	Y	
1	↓	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE15-10-8263

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TL McFarlane

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) Rolenda Saunders (Signature) Rolenda Saunders	Date/Time 2/17/10 740	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 2/17/10 805
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):

RE15-10-8269
8265

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):

RE15-10-8272 Rinsate

RS 02/17/10
~~RE15-10-8265~~ FD

8945
WST15-10-8945 FTB
RS 02-17-10

Reason:

.....
Print Last Name

Saunders

Signature

Phinda Saunders

Date

2/17/10



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1 of 2

ARS Sample Delivery Groups: ARS1-10-00276
Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment (SO))
Analysis Test Method: GPC-A-003

Request or PO Number: N/A
Date Received: 2/18/2010
Report Date: 02/19/10 14:51

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2 s	MDL	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00276-001	RE15-10-8269	GROSS ALPHA	10.697	5.568	14.162	4.333	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-001	RE15-10-8269	GROSS BETA	38.193	6.364	7.844	3.391		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-002	RE15-10-8265	GROSS ALPHA	11.347	5.441	12.361	3.509	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-002	RE15-10-8265	GROSS BETA	46.084	7.285	8.009	3.480		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-003	RE15-10-8263	GROSS ALPHA	-2.988	0.686	13.421	4.021	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-003	RE15-10-8263	GROSS BETA	27.186	5.017	7.690	3.308		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-004	RE15-10-8262	GROSS ALPHA	16.863	6.710	13.885	4.214		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-004	RE15-10-8262	GROSS BETA	37.171	6.210	7.584	3.276		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-005	RE15-10-8261	GROSS ALPHA	2.953	3.534	13.347	3.980	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-005	RE15-10-8261	GROSS BETA	33.499	5.824	7.952	3.432		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-006	RE15-10-8260	GROSS ALPHA	9.712	5.362	14.035	4.145	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-006	RE15-10-8260	GROSS BETA	28.355	5.266	7.924	3.413		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-007	RE15-10-8259	GROSS ALPHA	11.151	5.530	13.539	4.037	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-007	RE15-10-8259	GROSS BETA	27.604	5.136	7.864	3.408		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-008	RE15-10-8258	GROSS ALPHA	6.052	4.662	15.175	4.824	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-008	RE15-10-8258	GROSS BETA	30.003	5.428	8.011	3.468		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-009	RE15-10-8257	GROSS ALPHA	12.411	5.897	13.425	3.811	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-009	RE15-10-8257	GROSS BETA	24.144	4.784	8.099	3.521		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-010	RE15-10-8255	GROSS ALPHA	15.706	6.496	13.437	3.927		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-010	RE15-10-8255	GROSS BETA	38.194	6.453	8.242	3.576		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-011	RE15-10-8256	GROSS ALPHA	16.381	6.704	13.779	4.005		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-011	RE15-10-8256	GROSS BETA	36.007	6.164	7.930	3.423		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-012	RE11-10-1560	GROSS ALPHA	8.971	5.175	14.130	4.288	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-012	RE11-10-1560	GROSS BETA	31.109	5.674	8.889	3.908		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-013	RE11-10-1561	GROSS ALPHA	9.231	5.315	14.026	4.182	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-013	RE11-10-1561	GROSS BETA	36.509	6.190	8.007	3.466		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-014	RE11-10-1562	GROSS ALPHA	1.350	2.778	12.112	3.481	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-014	RE11-10-1562	GROSS BETA	33.262	5.788	8.188	3.564		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-015	RE11-10-1563	GROSS ALPHA	7.129	4.631	13.430	3.986	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-015	RE11-10-1563	GROSS BETA	30.307	5.427	7.748	3.341		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-016	RE11-10-1564	GROSS ALPHA	3.283	4.238	16.310	5.341	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-016	RE11-10-1564	GROSS BETA	33.531	5.833	8.187	3.560		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-017	RE11-10-1565	GROSS ALPHA	0.430	3.067	14.783	4.559	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-017	RE11-10-1565	GROSS BETA	28.160	5.214	8.177	3.548		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-018	RE11-10-1566	GROSS ALPHA	3.751	4.211	15.540	4.983	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-018	RE11-10-1566	GROSS BETA	26.261	5.177	9.206	4.049		pCi/g	2/19/2010	CR	N/A	SO	



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2 of 2

ARS Sample Delivery Group: ARS1-10-00276
Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment [SO])
Analysis Test Method: GPC-A-003

Request or PO Number: N/A
Date Received: 2/18/2010
Report Date: 02/19/10 14:51

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2 s	HDC	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00276-019	RE11-10-1567	GROSS ALPHA	-2.851	2.411	16.430	5.298	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-019	RE11-10-1567	GROSS BETA	41.899	6.782	7.903	3.405		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-020	RE11-10-1568	GROSS ALPHA	15.884	6.729	15.324	4.914		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-020	RE11-10-1568	GROSS BETA	21.471	4.534	8.054	3.479		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-021	RE11-10-1569	GROSS ALPHA	10.821	5.863	15.430	5.028	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-021	RE11-10-1569	GROSS BETA	38.721	6.393	7.536	3.237		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-022	RE11-10-1570	GROSS ALPHA	-0.082	2.768	13.813	4.363	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-022	RE11-10-1570	GROSS BETA	27.261	5.102	8.042	3.474		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-023	RE11-10-1571	GROSS ALPHA	6.547	5.040	15.985	5.296	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-023	RE11-10-1571	GROSS BETA	35.681	6.051	7.790	3.362		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-024	RE11-10-1572	GROSS ALPHA	5.004	4.153	13.728	4.415	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-024	RE11-10-1572	GROSS BETA	19.507	4.178	7.737	3.335		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-025	RE11-10-1573	GROSS ALPHA	0.151	3.730	16.805	5.627	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-025	RE11-10-1573	GROSS BETA	31.305	5.562	7.980	3.444		pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-026	RE11-10-1576	GROSS ALPHA	-0.117	3.911	17.349	6.135	U	pCi/g	2/19/2010	CR	N/A	SO	
ARS1-10-00276-026	RE11-10-1576	GROSS BETA	39.023	6.509	8.540	3.729		pCi/g	2/19/2010	CR	N/A	SO	
NOTES:													

Project Manager Review

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

LELAP Certificate # 01949

NELAP Certificate # E87558

DATA VALIDATION COVER SHEET**5122-1****Data Validation Cover Sheet**

Records Use only

**Section I.**REQUEST NUMBER: 10-1972 VALIDATION DATE: 04/24/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Susan Ball 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 |


☐ 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 primary HE analysis was performed beyond the method prescribed analytical HT, but within 2X the analytical HT for all samples. All associated sample results were NDs and, thus, were qualified UJ,HE9.
- The ICAL RRF was <0.05 but ≥ 0.01 for p-nitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE7b.
- The ICV and CCV %Ds for RDX and the CCV %Ds for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene were $>20\%$ with positive bias. The associated sample results were NDs and, thus, were not qualified. 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 LCS %R for tetraol was $<$ the laboratory LAL but $\geq 10\%$. The associated sample results were NDs and, thus, were qualified UJ,HE12a. The LCS %Rs for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene were $>$ the laboratory LALs. The associated sample results were NDs and, thus, were not qualified.
- The MS and MSD %Rs for tetraol were $<$ the laboratory LAL but $\geq 10\%$. The associated sample results were NDs and, thus, were qualified UJ,HE12e.
- 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.

Reviewed by: Monica Dymerski Level I Date: 04/26/10


DATA VALIDATION COVER SHEET	
5122-1	Records Use only
Data Validation Cover Sheet	 Los Alamos NATIONAL LABORATORY ----- EST. 1945 -----
VALIDATOR'S SIGNATURE: <u><i>[Signature]</i></u> DATE: <u>04/24/10</u>	
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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The mass spectral documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE8a	R, HE8a
<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input type="checkbox"/>	<input checked="" 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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767001

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412044a

Date Analyzed: 13-APR-10 12:49

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: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767001

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220042.wiff

Date Analyzed: 23-MAR-10 01:57

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: RE15-10-8261

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767002

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412047a

Date Analyzed: 13-APR-10 14:17

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8261

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767002

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220045.wiff

Date Analyzed: 23-MAR-10 02:44

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: RE15-10-8257

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767003

Sample Amount 2

Moisture: 1.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412048a

Date Analyzed: 13-APR-10 14:47

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: RE15-10-8257

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767003

Sample Amount 2

Moisture: 1.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220046.wiff

Date Analyzed: 23-MAR-10 03:00

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 Concentrated Extract Volume X Dilution
Value Sample Amoun Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8260

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767004

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412052a

Date Analyzed: 13-APR-10 16:45

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: RE15-10-8260

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767004

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220047.wiff

Date Analyzed: 23-MAR-10 03:15

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: RE15-10-8258

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412053a

Date Analyzed: 13-APR-10 17:14

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8258

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220051.wiff

Date Analyzed: 23-MAR-10 04:18

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: RE15-10-8263

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412054a

Date Analyzed: 13-APR-10 17:44

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: RE15-10-8263

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220052.wiff

Date Analyzed: 23-MAR-10 04:34

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: RE15-10-8255

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412055a

Date Analyzed: 13-APR-10 18:13

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8255

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220053.wiff

Date Analyzed: 23-MAR-10 04:50

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8256

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767008

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412056a

Date Analyzed: 13-APR-10 18:43

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 Concentrated Extract Volume X Dilution Factor
Sample Amount

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8256

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767008

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220054.wiff

Date Analyzed: 23-MAR-10 05:05

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: RE15-10-8262

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767009

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412057a

Date Analyzed: 13-APR-10 19:12

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: RE15-10-8262

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767009

Sample Amount 2

Molsture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220055.wiff

Date Analyzed: 23-MAR-10 05:21

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8265

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767010

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412058a

Date Analyzed: 13-APR-10 19:42

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

SEB
4/24/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RB15-10-8265

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767010

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220056.wiff

Date Analyzed: 23-MAR-10 05:37

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

SEB
4/24/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8269

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767011

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412059a

Date Analyzed: 13-APR-10 20:11

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: RE15-10-8269

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767011

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220057.wiff

Date Analyzed: 23-MAR-10 05:53

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

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1972 VALIDATION DATE: 04/26/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Susan Ball ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

- The parent QC sample was from another LANL RN, and the raw data for the parent QC sample were not included in the data package. Since the analysis of an MS/MSD pair was not a client requirement, no sample results were qualified.

Reviewed by: Monica Dymerski Level I Date: 04/26/10VALIDATOR'S SIGNATURE: Susan BallDATE: 04/26/10

**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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, P15	R, P15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, P19	J, R, P19

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767007Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 1.2
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	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767008

Client ID: RE15-10-8256
Batch ID: 958315
Run Date: 03/01/2010 20:10
Prep Date: 02/27/2010 10:30
Data File: 075f7501.d
075b7501.d

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.8
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	3.43	ug/kg	1.14	3.43	1
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	1
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	1
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	1
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	1
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	1
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	1

PCB

Page 1 of 1

Certificate of Analysis
Sample Summary

SDG Number:	10-1972	Date Collected:	02/16/2010 12:00	Matrix:	R
Lab Sample ID:	247767003	Date Received:	02/23/2010 08:50	%Moisture:	1.3
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8257	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	958315	Inst:	ECD1A.I	Dilution:	1
Run Date:	03/01/2010 19:07	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/27/2010 10:30	Aliquot:	30.04 g	Final Volume:	1 mL
Data File:	070f7001.d	Column:	1 CLP1	Level:	LOW
	070b7001.d		2 CLP2		

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767005

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.7
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767001Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Partname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.43	ug/kg	1.14	3.43	1
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	1
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	1
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	1
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	1
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	1
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767004Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.06 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 1.6
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	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number:	10-1972	Date Collected:	02/16/2010 12:00	Matrix:	R
Lab Sample ID:	247767002	Date Received:	02/23/2010 08:50	%Moisture:	1.6
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8261	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	958315	Inst:	ECD1A.I	Dilution:	1
Run Date:	03/01/2010 18:54	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/27/2010 10:30	Allquot:	30.02 g	Final Volume:	1 mL
Data File:	069f6901.d	Column:	1 CLP1	Level:	LOW
	069b6901.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number:	10-1972	Date Collected:	02/16/2010 12:00	Matrix:	R
Lab Sample ID:	247767009	Date Received:	02/23/2010 08:50	%Moisture:	1.8
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8262	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	958315	Inst:	ECD1A.I	Dilution:	1
Run Date:	03/01/2010 20:48	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/27/2010 10:30	Allquot:	30 g	Final Volume:	1 mL
Data File:	078f7801.d	Column:	1 CLP1	Level:	LOW
	078b7801.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767006Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 1.9
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	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767010Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2Matrix: R
% Moisture: 1.8
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767011

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8269
Batch ID: 958315
Run Date: 03/01/2010 21:13
Prep Date: 02/27/2010 10:30
Data File: 080f8001.d
080b8001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Monday, February 22, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1972

LOS ALAMOS

REQUEST NUMBER: 10-1972

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/24/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247767

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8259	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8261	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8257	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8260	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8258	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8263	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8255	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8256	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8262	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8265	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8269	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

2/22/10 1400

Printed Name

Signature

Mercedes Simmons Mercedes Simmons 2/23/10 0850

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Monday, February 22, 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: 2/22/2010

TURNAROUND/REPORT DUE: 3/24/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

Page 1 of 2

REQUEST NUMBER: 10-1972

These Samples are on:

LANL Request Number: 10-1972

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-346.8082						
1	RE15-10-8255	1	RE15-10-8255	R	2/16/2010	
1	RE15-10-8256	1	RE15-10-8256	R	2/16/2010	
1	RE15-10-8257	1	RE15-10-8257	R	2/16/2010	
1	RE15-10-8258	1	RE15-10-8258	R	2/16/2010	
1	RE15-10-8259	1	RE15-10-8259	R	2/16/2010	
1	RE15-10-8260	1	RE15-10-8260	R	2/16/2010	
1	RE15-10-8261	1	RE15-10-8261	R	2/16/2010	
1	RE15-10-8262	1	RE15-10-8262	R	2/16/2010	
1	RE15-10-8263	1	RE15-10-8263	R	2/16/2010	

Monday, February 22, 2010

REQUEST NUMBER: 10-1972

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.8082	1	RE15-10-8285	R	2/16/2010	
		1	RE15-10-8289	R	2/16/2010	
	SW-846.8321A_MOD	1	RE15-10-8255	R	2/16/2010	
		1	RE15-10-8258	R	2/16/2010	
		1	RE15-10-8257	R	2/16/2010	
		1	RE15-10-8258	R	2/16/2010	
		1	RE15-10-8259	R	2/16/2010	
		1	RE15-10-8260	R	2/16/2010	
		1	RE15-10-8261	R	2/16/2010	
		1	RE15-10-8262	R	2/16/2010	
		1	RE15-10-8263	R	2/16/2010	
		1	RE15-10-8265	R	2/16/2010	
		1	RE15-10-8269	R	2/16/2010	

Final Page of REQUEST NUMBER 10-1972



March 01, 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: 247767
SDG: 10-1972

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 23, 2010, and analyzed for Explosives by LCMSMS and GC Semivolatile PCB. 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: 10-1972
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247767
SDG: 10-1972

TABLE OF CONTENTS

Case Narrative.....	1
Chain of Custody and Supporting Documentation.....	5
Data Review Qualifier Flag Definition Sheet.....	14
LC/MS/MS Explosives Analysis.....	16
Sample Data Summary.....	23
Quality Control Summary.....	46
Sample Data.....	124
Standards Data.....	202
Quality Control Data.....	307
Miscellaneous Data.....	336
GC Semivolatile PCB Analysis.....	346
Sample Data Summary.....	354
Quality Control Summary.....	366
Sample Data.....	372
Standards Data.....	428
Quality Control Data.....	509
Miscellaneous Data.....	524

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247767
SDG # : 10-1972**

March 01, 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 23, 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>
247767001	RE15-10-8259
247767002	RE15-10-8261
247767003	RE15-10-8257
247767004	RE15-10-8260
247767005	RE15-10-8258
247767006	RE15-10-8263
247767007	RE15-10-8255
247767008	RE15-10-8256
247767009	RE15-10-8262
247767010	RE15-10-8265
247767011	RE15-10-8269

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 and GC Semivolatile PCB.

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.

A handwritten signature in black ink, appearing to read "Valerie Davis" with a stylized flourish at the end.

Valerie Davis

Project Manager

List of current GEL Certifications as of 01 March 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

Monday, February 22, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1972

LOS ALAMOS

REQUEST NUMBER: 10-1972

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/24/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247767

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8259	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8261	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8257	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8260	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8258	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8263	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8255	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8256	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8262	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8265	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8269	1	AMBER GLASS	8082+NMED-HEXP	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

Monday, February 22, 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: 2/22/2010

TURNAROUND/REPORT DUE: 3/24/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

These Samples are on:
LANL Request Number: 10-1972
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Page 1 of 2
REQUEST NUMBER: 10-1972

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082					
		1	RE15-10-8255	R	2/16/2010	
		1	RE15-10-8256	R	2/16/2010	
		1	RE15-10-8257	R	2/16/2010	
		1	RE15-10-8258	R	2/16/2010	
		1	RE15-10-8259	R	2/16/2010	
		1	RE15-10-8260	R	2/16/2010	
		1	RE15-10-8261	R	2/16/2010	
		1	RE15-10-8262	R	2/16/2010	
		1	RE15-10-8263	R	2/16/2010	

Monday, February 22, 2010

Page 2 of 2
REQUEST NUMBER: 10-1972

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8265	R	2/16/2010	
		1	RE15-10-8269	R	2/16/2010	
	SW-846:8321A_MOD	1	RE15-10-8255	R	2/16/2010	
		1	RE15-10-8256	R	2/16/2010	
		1	RE15-10-8257	R	2/16/2010	
		1	RE15-10-8258	R	2/16/2010	
		1	RE15-10-8259	R	2/16/2010	
		1	RE15-10-8260	R	2/16/2010	
		1	RE15-10-8261	R	2/16/2010	
		1	RE15-10-8262	R	2/16/2010	
		1	RE15-10-8263	R	2/16/2010	
		1	RE15-10-8265	R	2/16/2010	
		1	RE15-10-8269	R	2/16/2010	

Final Page of REQUEST NUMBER 10-1972



SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCO/Work Order: 10-1972	
Received By: Mercedes Simmons		Date Received: 2/23/10	
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 0, 2-4C 7,11,12C
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 1530 0C 7209 7850 1584 3C
 7209 7850 1595 2C 7209 7850 1621 4C
 7209 7850 1632 2C 7209 7850 1600 7C
 7209 7850 1529 2C 7209 7850 1507 11C
 7209 7850 1610 2C 7209 7850 1492 12C
 7209 7850 1518 3C
 7209 7850 1562 3C
 7209 7850 1573 3C

ORIGIN ID: 60FA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWT: 65.0 LB HMN
CRD: 0014176/CAPE2450
BILL SENDER:

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

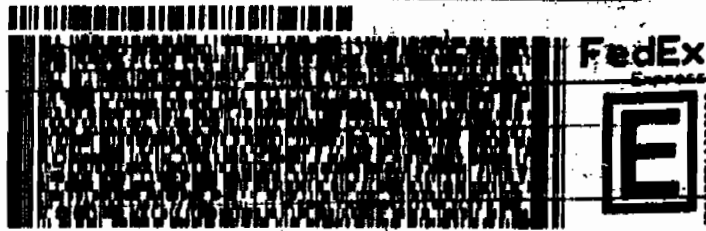
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

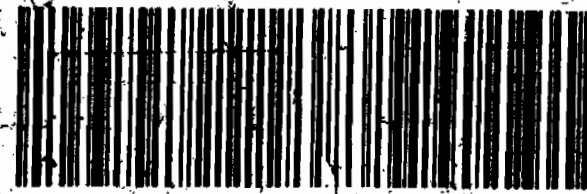
CHARLESTON SC 29407
(043) 556-9171
REF: 68010AMR1A015AGNMO

CHARLESTON SC 29407
(043) 556-9171
REF: 68010AMR2A0515BYDO



2 of 2
MPSH 7209 7850 1530
Matr# 7209 7850 1529 0201
TUE - 23FEB A1
PRIORITY OVERNIGHT
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MPSH 7209 7850 1505
Matr# 7209 7850 1584 0201
TUE - 23FEB A1
PRIORITY OVERNIGHT
XX CHSA
29407
SC-US
CHS



ORIGIN ID: 60FA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWT: 65.0 LB HMN
CRD: 0014176/CAPE2450
BILL SENDER:

ORIGIN ID: 60FA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

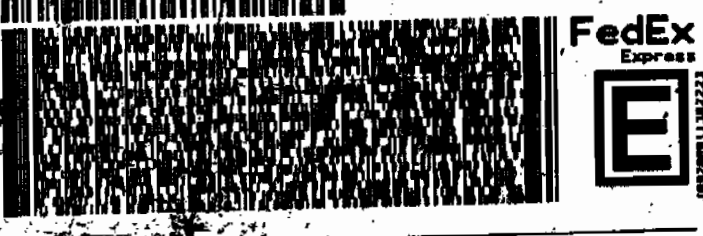
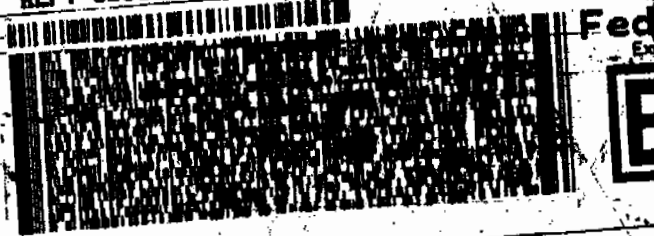
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BILL SENDER:

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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(043) 556-9171
REF: 68010AMR3A05529E00

CHARLESTON SC 29407
(043) 556-9171
REF: 68010AMR1A015AGNMO



1 of 2
TRKH 7209 7850 1532
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1 of 2
TRKH 7209 7850 1529
Matr# 7209 7850 1529 0201
TUE - 23FEB A1
PRIORITY OVERNIGHT
XX CHSA
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CHS

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SC-US
CHS

ORIGIN ID: SAFA (505) 685-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWT: 52.0 LB MAN
CRD: 0014176/CAFE2450

BILL SENDER:

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 656-8171

REF: 68010AMR2A05158Y00

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1 of 2
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LOS ALAMOS NATL LAB
8 BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

ACTWT: 52.0 LB MAN
CRD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 656-8171

F: 68010AMR3A0224JFT0

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NN MASTER NN

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ORIGIN ID: SAFA (505) 685-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWT: 46.0 LB MAN
CRD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 656-8171

REF: 68010AMR3A0520E00

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

ACTWT: 46.0 LB MAN
CRD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 656-8171

REF: 68010AMR1A015AGM10

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TUE - 23FEB A1
PRIORITY OVERNIGHT

1 of 2
TRK# 7209 7850 1507
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ORIGIN ID: SAFA (506) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TR00 BLDG 1237 DPU

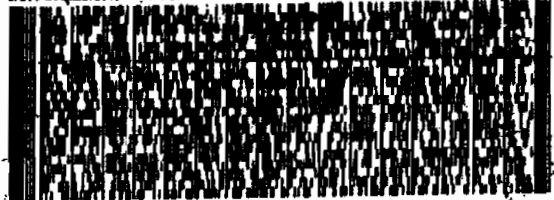
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CRD: 0014176/CAFE2450

LOS ALAMOS, NM 87646
UNITED STATES US

BILL SENDER

TO **VALERIE DAVIS**
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(505) 896-0171
REF: 68010AAREW0130DM00



FedEx
Express



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2 of 2
MPSH 7209 7850 1482
6209

Matr# 7209 7850 1481 0201

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PRIORITY OVERNIGHT

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SC-US
CHS



Part # 156148-34 NRIT V3 08-09

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.

LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1972**

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: 957196

Prep Batch Number: 957195

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
247767001	RE15-10-8259
247767002	RE15-10-8261
247767003	RE15-10-8257
247767004	RE15-10-8260
247767005	RE15-10-8258
247767006	RE15-10-8263
247767007	RE15-10-8255
247767008	RE15-10-8256
247767009	RE15-10-8262
247767010	RE15-10-8265
247767011	RE15-10-8269
1202052398	Method Blank (MB)
1202052399	Laboratory Control Sample (LCS)
1202052400	247767001(RE15-10-8259) Matrix Spike (MS)
1202052401	247767001(RE15-10-8259) 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.

10-1972-EXPLCMS

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 36.2% with limits of 51-112%. Since the Tetryl recovery in the MS falls within the DOD QSM marginal exceedance limits of 22-139%, method control was demonstrated. The samples are beyond twice the hold time. The data are reported. Please see data exception report 817079.

QC Sample Designation

Sample 247767001 (RE15-10-8259) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered Tetryl at 24.8%. The recovery limits are 36-124%. Since the Tetryl recovery in the MS falls within the DOD QSM marginal exceedance limits of 22-139%, method control was demonstrated. The samples are beyond twice the hold time. The data are reported. Please see data exception report 817079.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered Tetryl at 19.2%. The recovery limits are 36-124%. Since the Tetryl recovery in the MS falls within the DOD QSM marginal exceedance limits of 22-139%, method control was demonstrated. The samples are beyond twice the hold time. The data are reported. Please see data exception report 817079.

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 within the required acceptance criteria for all samples and QC in this SDG.

Technical Information

Holding Time Specifications

Samples and QC 247767001(RE15-10-8259), 247767002(RE15-10-8261), 247767003(RE15-10-8257), 247767004(RE15-10-8260), 247767005(RE15-10-8258), 247767006(RE15-10-8263), 247767007(RE15-10-8255), 247767008(RE15-10-8256), 247767009(RE15-10-8262), 247767010(RE15-10-8265), 247767011(RE15-10-8269), 1202052400(RE15-10-8259MS) and 1202052401(RE15-10-8259MSD) 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 817079. 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 recovered 2,4-Diamino-6-nitrotoluene at 119% with limits of 52-114% and 2,6-Diamino-4-nitrotoluene at 123% with limits of 64-122%. While the LCS exhibited a high bias for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene, both the MS and MSD met acceptance limits for each analyte. 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene were not detected in the associated samples. The samples are beyond twice the hold time. The data are reported. Please see data exception report 817079.

QC Sample Designation

Sample 247767001 (RE15-10-8259) 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 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 817079 was generated for this SDG.

The LCS recovered Tetryl at 36.2% with limits of 51-112%. The LCS recovered 2,4-Diamino-6-nitrotoluene at 119% with limits of 52-114% and 2,6-Diamino-4-nitrotoluene at 123% with limits of 64-122%. Since the Tetryl recovery in the MS falls within the DOD QSM marginal exceedance limits of 22-139%, method control was demonstrated. While the LCS exhibited a high bias for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene, both the MS and MSD met acceptance limits for each analyte. 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene were not detected in the associated samples. The samples are beyond twice the hold time. The data are reported.

The MS recovered Tetryl at 24.8%. The MSD recovered Tetryl at 19.2%. The recovery limits are 36-124%. Since the Tetryl recovery in the MS falls within the DOD QSM marginal exceedance limits of 22-139%, method control was demonstrated. The samples are beyond twice the hold time. The data are reported.

Samples and QC 247767001(RE15-10-8259), 247767002(RE15-10-8261), 247767003(RE15-10-8257), 247767004(RE15-10-8260), 247767005(RE15-10-8258), 247767006(RE15-10-8263), 247767007(RE15-10-8255), 247767008(RE15-10-8256), 247767009(RE15-10-8262), 247767010(RE15-10-8265), 247767011(RE15-10-8269), 1202052400(RE15-10-8259MS) and 1202052401(RE15-10-8259MSD) 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: *Heather M. Mauer* Date: 04/15/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767001

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412044a

Date Analyzed: 13-APR-10 12:49

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767001

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220042.wiff

Date Analyzed: 23-MAR-10 01:57

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: RE15-10-8261

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767002

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412047a

Date Analyzed: 13-APR-10 14:17

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: RE15-10-8261

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767002

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220045.wiff

Date Analyzed: 23-MAR-10 02:44

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
		Sample Amount		

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8257

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767003

Sample Amount 2

Moisture: 1.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412048a

Date Analyzed: 13-APR-10 14:47

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: RE15-10-8257

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767003

Sample Amount 2

Moisture: 1.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220046.wiff

Date Analyzed: 23-MAR-10 03:00

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8260

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767004

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412052a

Date Analyzed: 13-APR-10 16:45

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: RE15-10-8260

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767004

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220047.wiff

Date Analyzed: 23-MAR-10 03:15

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: RE15-10-8258

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412053a

Date Analyzed: 13-APR-10 17:14

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: RE15-10-8258

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220051.wiff

Date Analyzed: 23-MAR-10 04:18

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: RE15-10-8263

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412054a

Date Analyzed: 13-APR-10 17:44

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: RE15-10-8263

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220052.wiff

Date Analyzed: 23-MAR-10 04:34

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: RE15-10-8255

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412055a

Date Analyzed: 13-APR-10 18:13

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: RE15-10-8255

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220053.wiff

Date Analyzed: 23-MAR-10 04:50

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: RE15-10-8256

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767008

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412056a

Date Analyzed: 13-APR-10 18:43

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: RE15-10-8256

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767008

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220054.wiff

Date Analyzed: 23-MAR-10 05:05

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: RE15-10-8262

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767009

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412057a

Date Analyzed: 13-APR-10 19:12

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: RE15-10-8262

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767009

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220055.wiff

Date Analyzed: 23-MAR-10 05:21

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: RE15-10-8265

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767010

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412058a

Date Analyzed: 13-APR-10 19:42

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: RE15-10-8265

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767010

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220056.wiff

Date Analyzed: 23-MAR-10 05:37

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: RE15-10-8269

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767011

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412059a

Date Analyzed: 13-APR-10 20:11

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 Valuc X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8269

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767011

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220057.wiff

Date Analyzed: 23-MAR-10 05:53

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): 10-1972

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247767001	RE15-10-8259	98.1	70 - 144	
247767001	RE15-10-8259	114	70 - 144	
247767002	RE15-10-8261	107	70 - 144	
247767002	RE15-10-8261	116	70 - 144	
247767003	RE15-10-8257	98.4	70 - 144	
247767003	RE15-10-8257	119	70 - 144	
247767004	RE15-10-8260	111	70 - 144	
247767004	RE15-10-8260	116	70 - 144	
247767005	RE15-10-8258	104	70 - 144	
247767005	RE15-10-8258	113	70 - 144	
247767006	RE15-10-8263	94.8	70 - 144	
247767006	RE15-10-8263	115	70 - 144	
247767007	RE15-10-8255	110	70 - 144	
247767007	RE15-10-8255	118	70 - 144	
247767008	RE15-10-8256	104	70 - 144	
247767008	RE15-10-8256	114	70 - 144	
247767009	RE15-10-8262	103	70 - 144	
247767009	RE15-10-8262	115	70 - 144	
247767010	RE15-10-8265	103	70 - 144	
247767010	RE15-10-8265	119	70 - 144	
247767011	RE15-10-8269	102	70 - 144	
247767011	RE15-10-8269	115	70 - 144	
1202052398	MB for batch 957195	96.5	70 - 144	
1202052398	MB for batch 957195	112	70 - 144	
1202052399	LCS for batch 957195	110	70 - 144	
1202052399	LCS for batch 957195	112	70 - 144	
1202052400	RE15-10-8259(247767001MS)	101	70 - 144	
1202052400	RE15-10-8259(247767001MS)	112	70 - 144	
1202052401	RE15-10-8259(247767001MSD)	98.5	70 - 144	
1202052401	RE15-10-8259(247767001MSD)	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) 10-1972

Extract Batch Code: 957195

Date Extracted: 26-FEB-10

GEL LCS ID: 1202052399

GEL LCSDUP ID:

Analysis Date/Time: 13-APR-10 12:19

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
Tetryl	5000	1810	36.2	*							51 - 112
2,4,6-Trinitrotoluene	5000	4910	98.1								73 - 149
2,6-Dinitrotoluene	5000	4870	97.3								89 - 120
4-Amino-2,6-dinitrotoluene	5000	4870	97.5								84 - 130
RDX	5000	5210	104								81 - 137
PETN	5000	4990	99.7								64 - 137
Nitrobenzene	5000	5710	114								71 - 122
HMX	5000	4410	88.3								58 - 138
2-Amino-4,6-dinitrotoluene	5000	4970	99.5								90 - 130
2,4-Dinitrotoluene	5000	6020	120								87 - 137
1,3,5-Trinitrobenzene	5000	3850	77.1								69 - 126
m-Dinitrobenzene	5000	4860	97.1								83 - 122
m-Nitrotoluene	5000	4180	83.6								73 - 118
o-Nitrotoluene	5000	4280	85.6								72 - 119
p-Nitrotoluene	5000	4630	92.5								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) 10-1972

Extract Batch Code: 957195

Date Extracted: 26-FEB-10

GEL LCS ID: 1202052399

GEL LCSDUP ID:

Analysis Date/Time: 23-MAR-10 01:41

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
2,4-Diamino-6-nitrotoluene	5000	5960	119 *					52 - 114
2,6-Diamino-4-nitrotoluene	5000	6140	123 *					64 - 122
3,5-Dinitroaniline	5000	5540	111					70 - 127
tris(o-cresyl) phosphate	5000	5170	103					84 - 119
TATB	5000	5370	107					28 - 162

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: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Extract Batch Code: 957195

Date Extracted: 26-FEB-10

GEL Spike ID: 1202052400

GEL SpikeDup ID: 1202052401

Analysis Date/Time: 13-APR-10 13:18

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
HMX	5000	0	4630	92.7	4500	89.9	3.02	30	51 - 144
Nitrobenzene	5000	0	4820	96.5	4640	92.9	3.8	30	70 - 122
PETN	5000	0	5360	107	5190	104	3.25	30	60 - 140
1,3,5-Trinitrobenzene	5000	0	4160	83.1	3840	76.8	7.92	30	50 - 140
4-Amino-2,6-dinitrotoluene	5000	0	4730	94.5	4700	94.1	.496	30	72 - 143
2-Amino-4,6-dinitrotoluene	5000	0	4890	97.9	4810	96.3	1.64	30	85 - 137
2,6-Dinitrotoluene	5000	0	4830	96.7	4760	95.2	1.52	30	90 - 118
2,4-Dinitrotoluene	5000	0	5370	107	5260	105	2.16	30	86 - 135
2,4,6-Trinitrotoluene	5000	0	4810	96.2	4520	90.5	6.15	30	76 - 144
RDX	5000	0	5540	111	5260	105	5.13	30	59 - 152
Tetryl	5000	0	1240	24.8 *	958	19.2 *	25.8	30	36 - 124
m-Dinitrobenzene	5000	0	5010	100	4660	93.2	7.16	30	85 - 118
m-Nitrotoluene	5000	0	4450	89.1	4450	88.9	.187	30	70 - 120
o-Nitrotoluene	5000	0	4430	88.5	4330	86.6	2.17	30	69 - 123
p-Nitrotoluene	5000	0	4890	97.8	5060	101	3.51	30	65 - 133

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

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Extract Batch Code: 957195

Date Extracted: 26-FEB-10

GEL Spike ID: 1202052400

GEL SpikeDup ID: 1202052401

Analysis Date/Time: 23-MAR-10 02:12

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	5890	118	5660	113	3.98	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	6410	128	6340	127	1.1	30	55 - 130
TATB	5000	0	6020	120	5750	115	4.59	30	29 - 155
3,5-Dinitroaniline	5000	0	5460	109	5510	110	.912	30	73 - 129
tris(o-cresyl) phosphate	5000	55.6	5190	103	5040	99.7	2.93	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): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-APR-10 15:40

GEL Data File: EXP0412001a

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	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

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Date: 12-Apr-2010

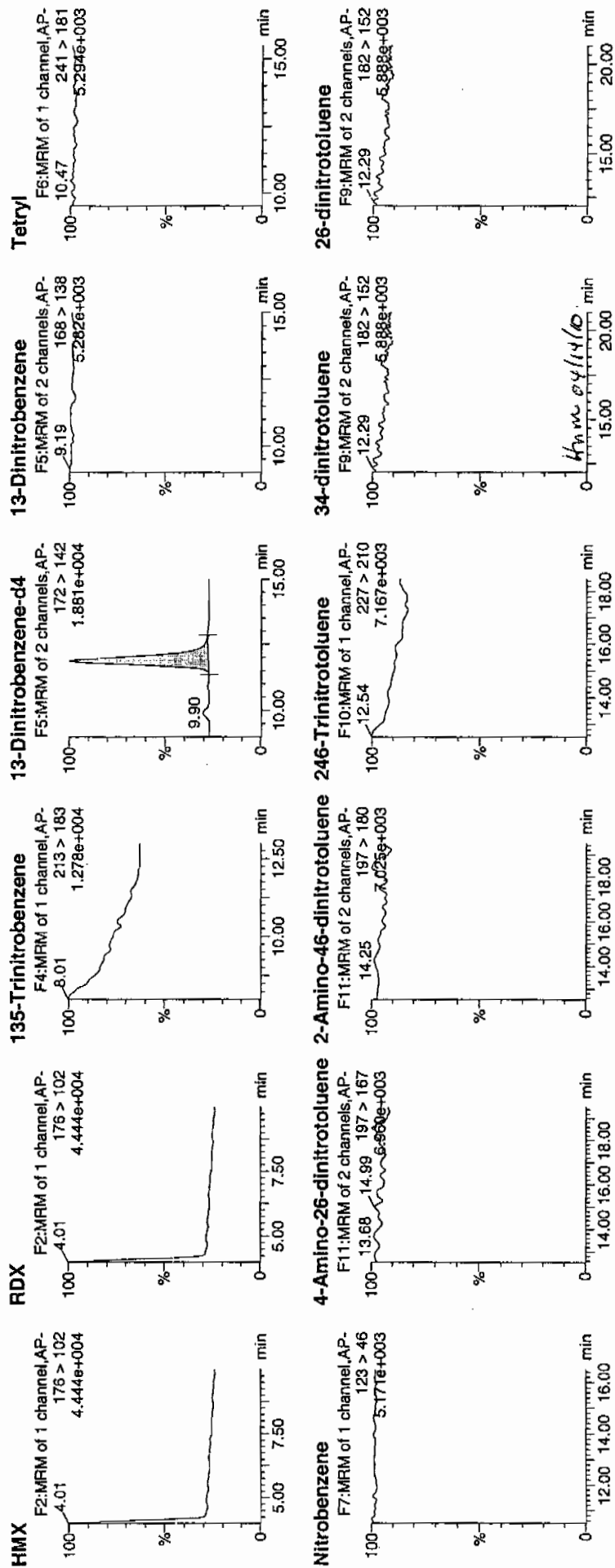
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ID: XIBLK01

Vial: 1:1,A

Page 53 of 548

100%
4/13/10

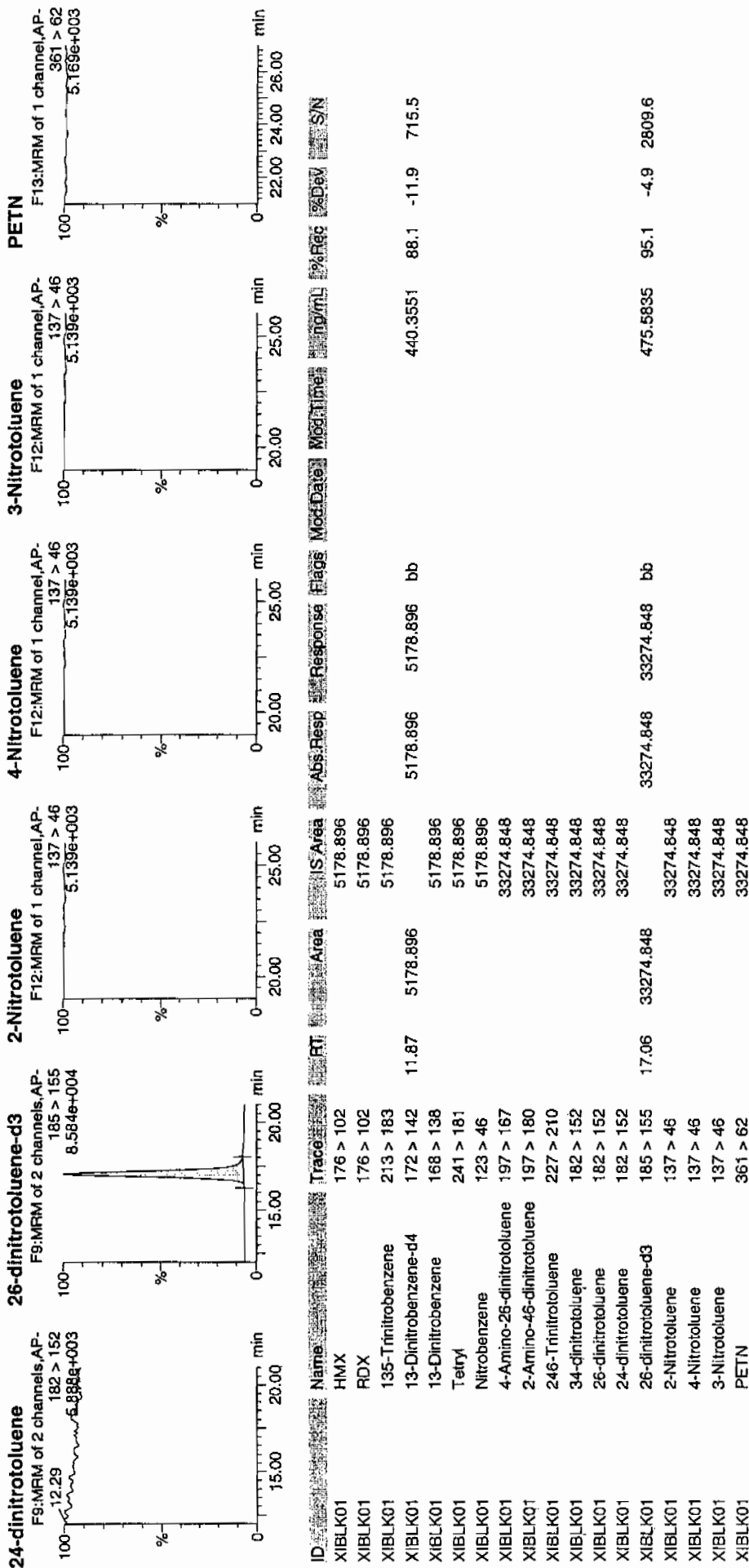


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 2 of 77

Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

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

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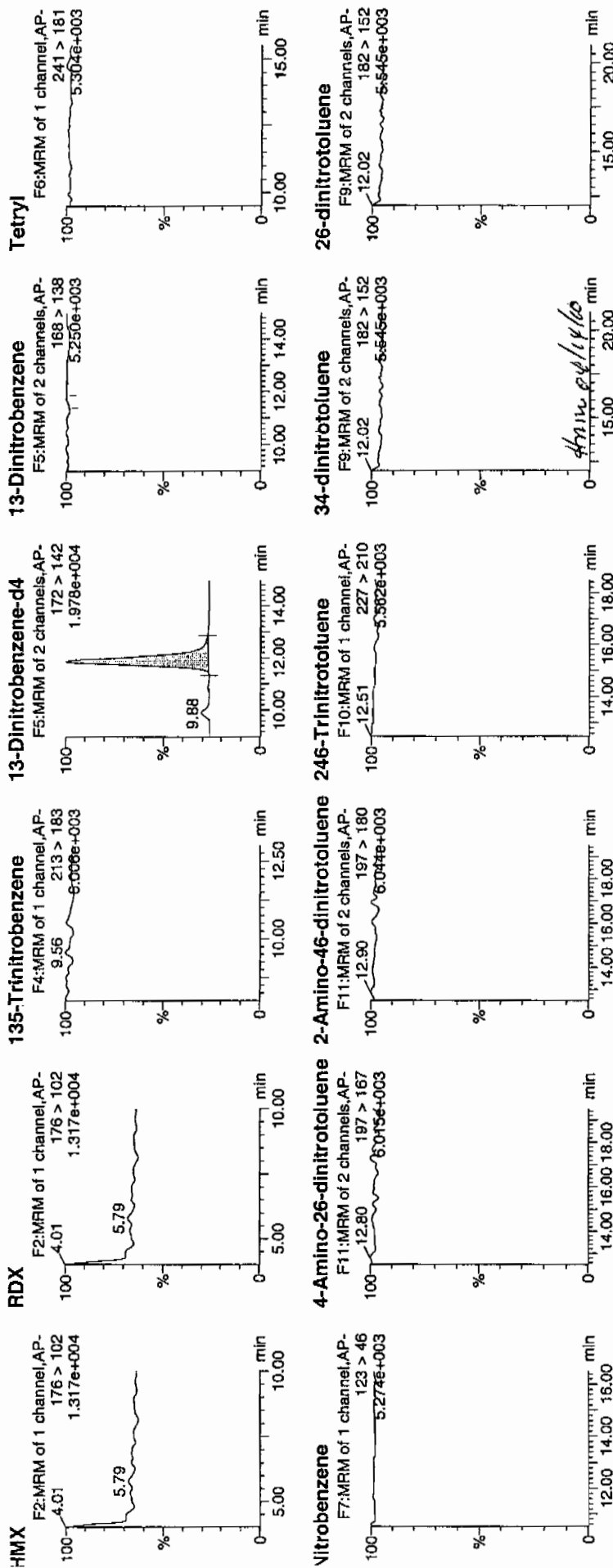
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ID: XIBLK01

Vial: 11,A

4/13/10

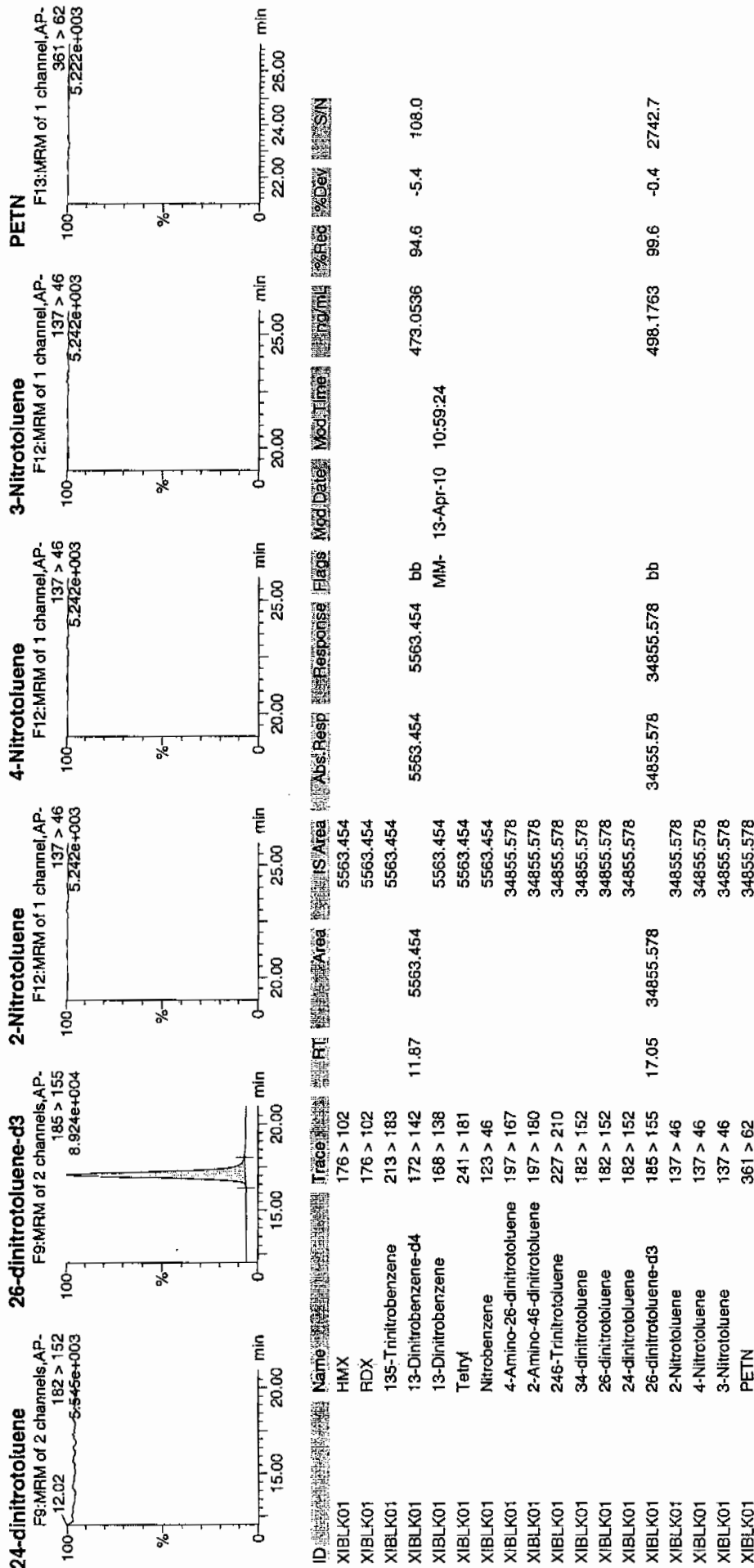


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 4 of 77

Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-MAR-10 15:12

GEL Data File: EXS03220001.wiff

Instrument ID: LCMSMS

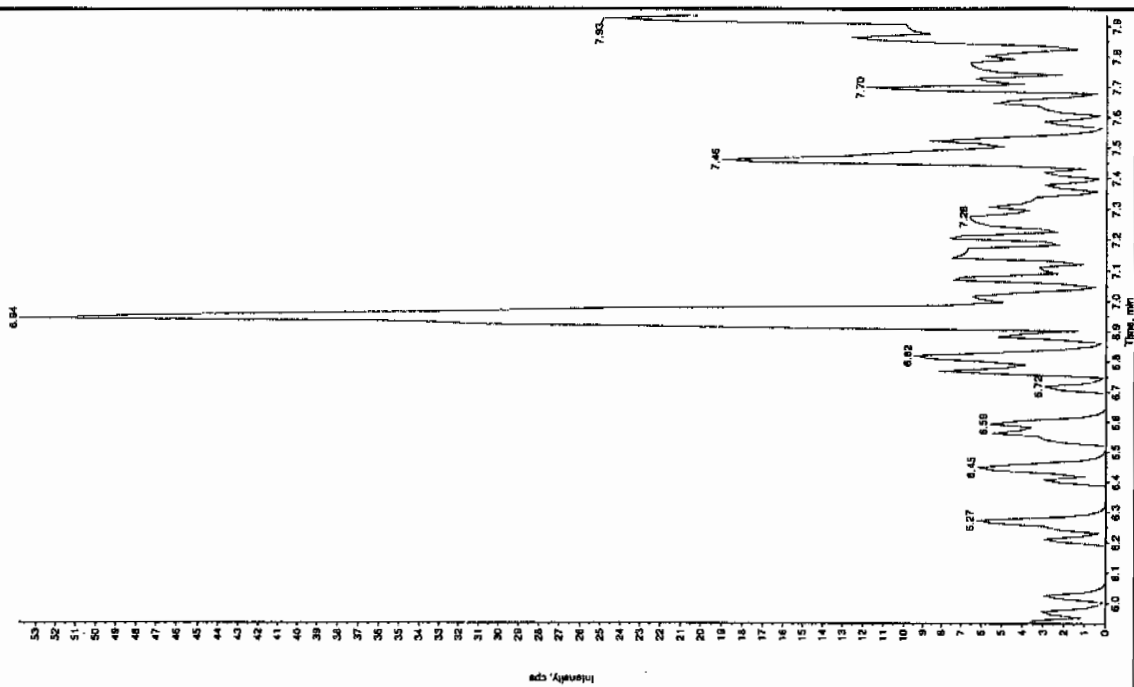
Column: Phenomenex Ultracarb 5u ODS(20)

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

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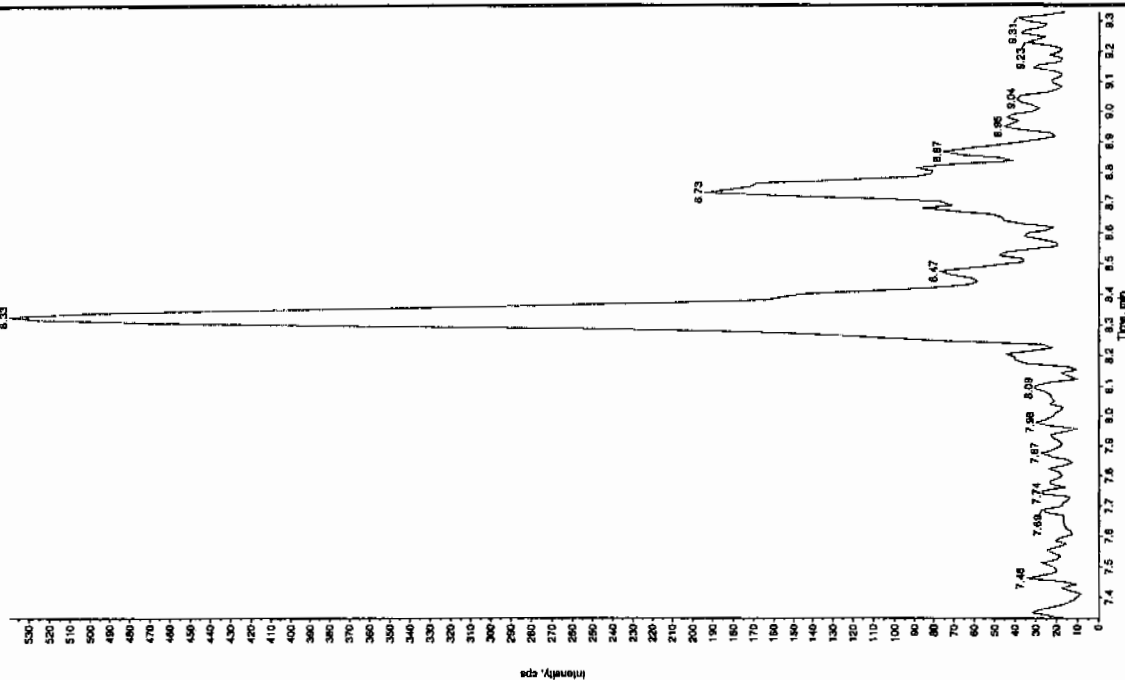
Sample Name: "XIBLK01" Sample ID: "11LER" File: "EX030320001.wif"
Peak Name: "1ATB" Mass(es): "257.2204.5 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:12:56 PM
Modified: No



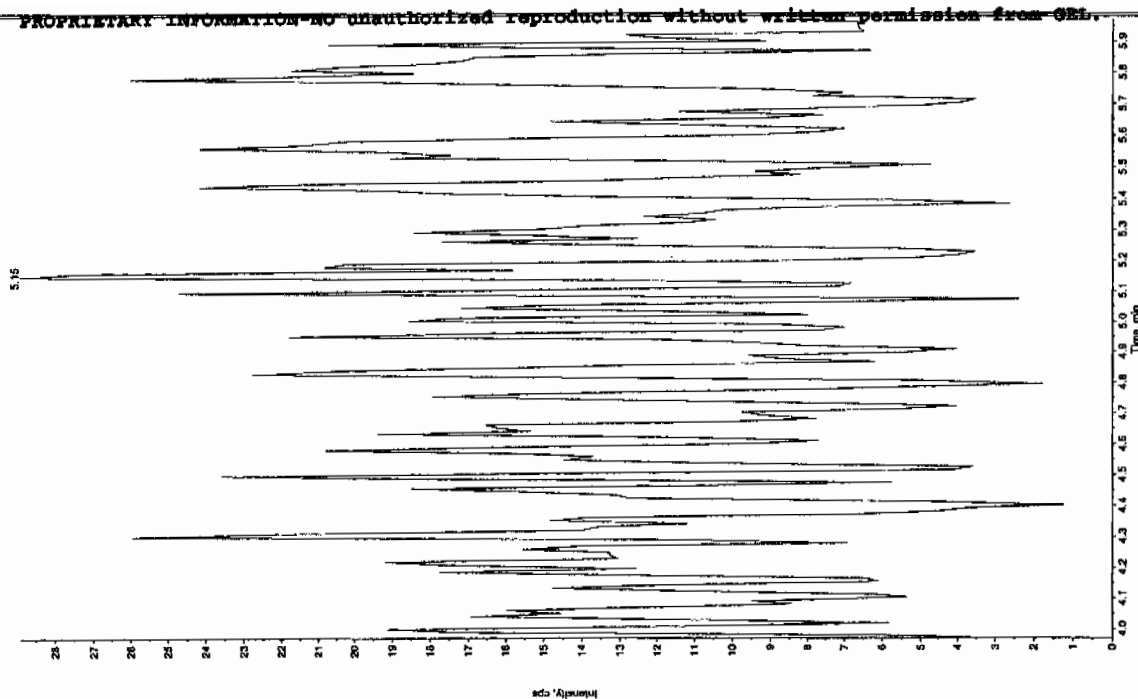
Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03220001.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.151.8 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 3:12:56 PM
 Modified: No

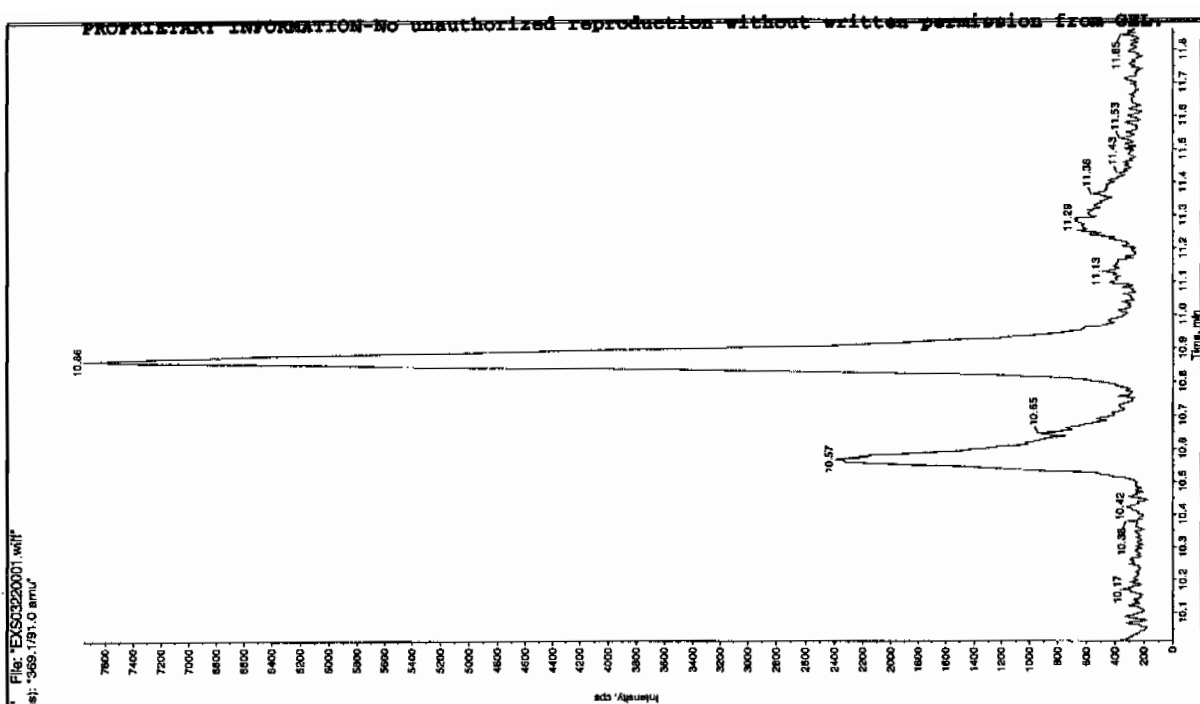
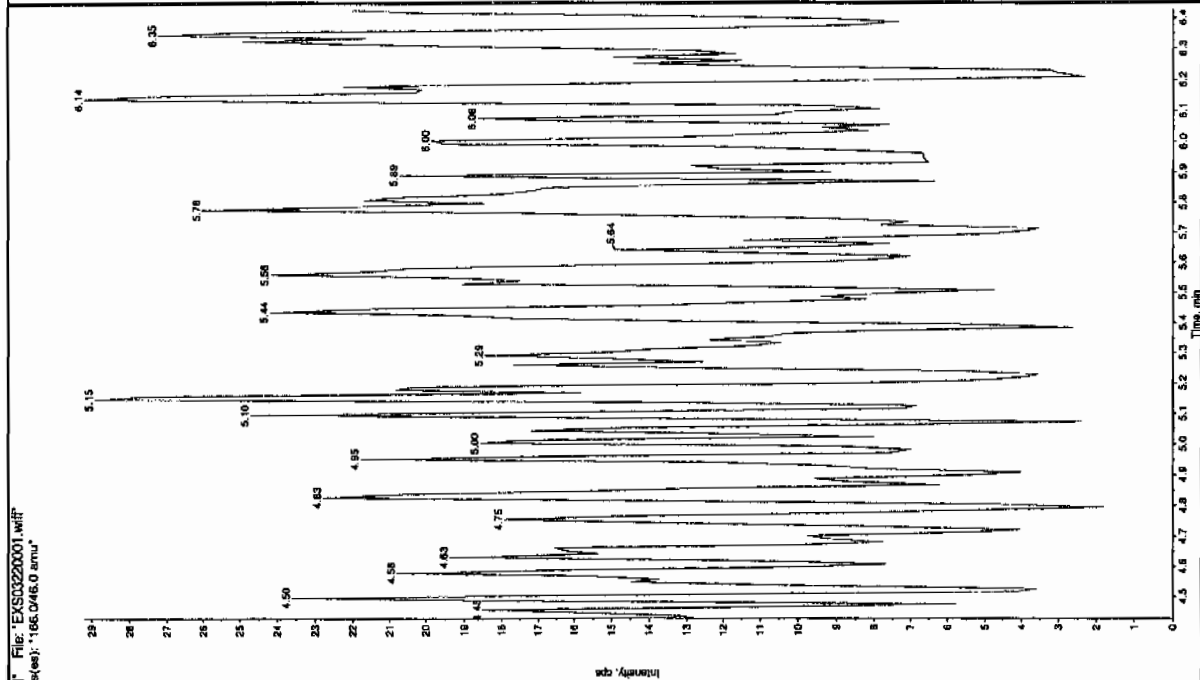


Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03220001.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 3:12:56 PM
 Modified: No



Sample Name: 'XBLK01' Sample ID: '111LRF' File: 'EX503220001.wif'
 Peak Name: '24-Diamino-6-nitrotoluene' 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: 3/22/2010
 Acq. Time: 3:12:56 PM
 Modified: No



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-MAR-10 15:28

GEL Data File: EXS03220002.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

Ken 3/27/10

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Sample Name: XIBLK01* Sample ID: JILB* File: EX5022002.wiff
Peak Name: 35-Octadecanoic* Mass(es): 182.046.0 amu
Concentration: 0.00 ng/mL
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:28:45 PM
Modified: No

Intensity, cps



Ken 3/27/10

Sample Name: XIBLK01* Sample ID: JILB* File: EX5022002.wiff
Peak Name: 35-Octadecanoic* Mass(es): 257.2204.9 amu
Concentration: 0.00 ng/mL
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:28:45 PM
Modified: No

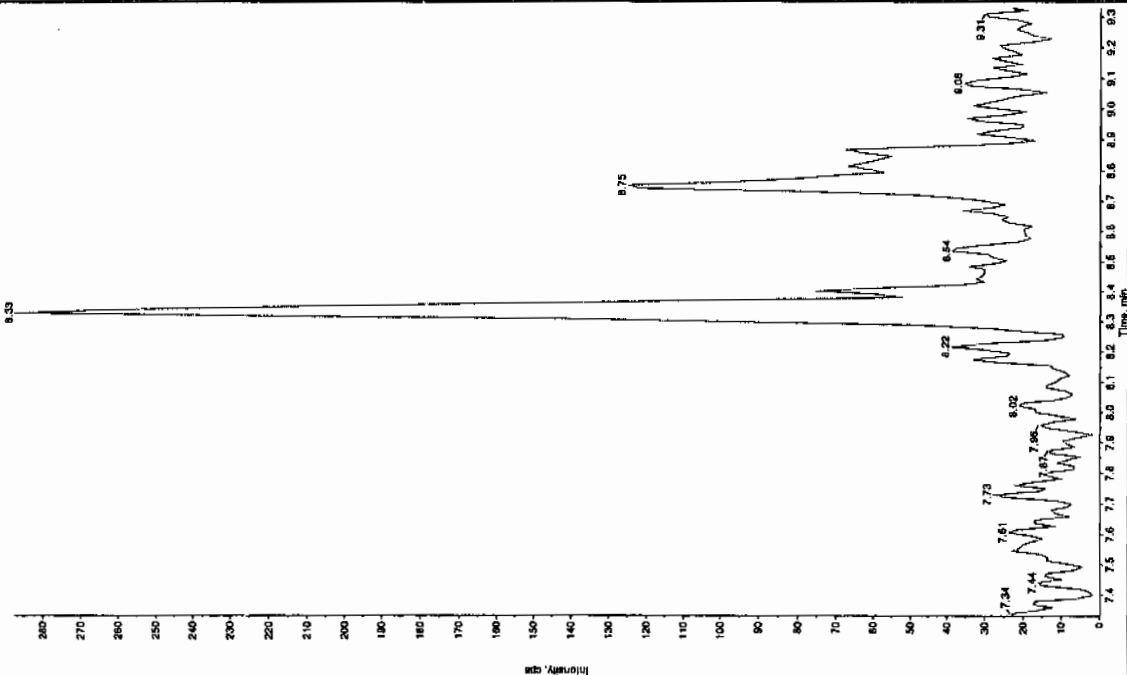
Intensity, cps



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

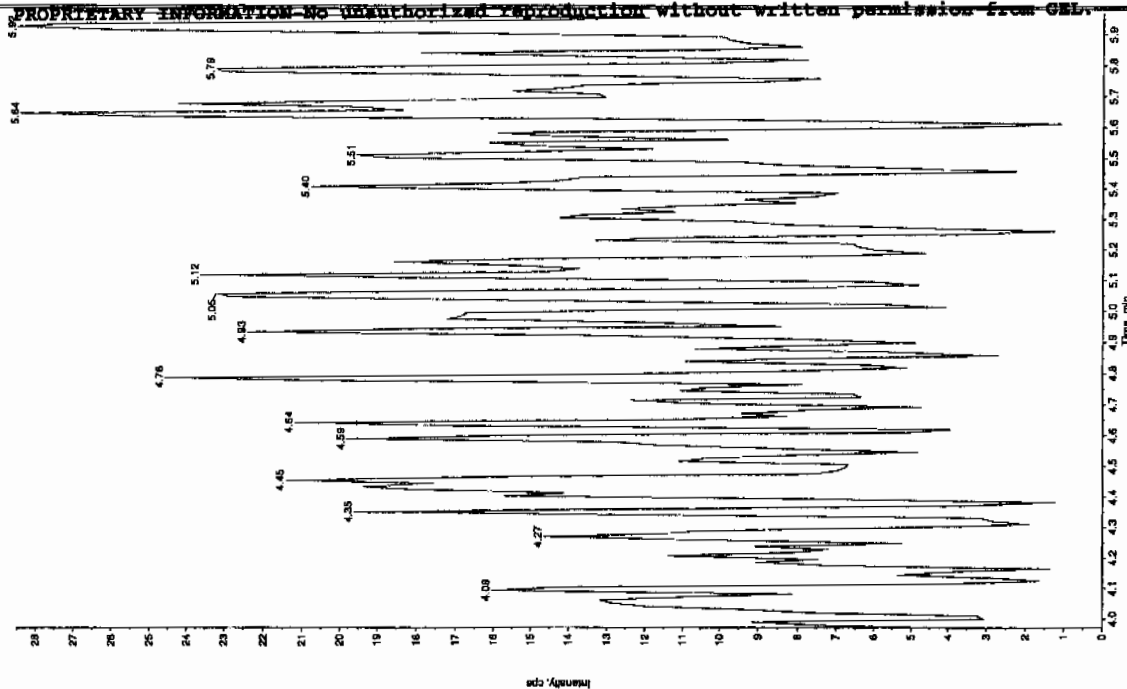
Sample Name: "XIBLK01" Sample ID: "11111" File: "EXS03220002.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:28:45 PM
Modified: NO



Sample Name: "XIBLK01" Sample ID: "11111" File: "EXS03220002.wif"
Peak Name: "25-Diamino-4-nitrofluorene" Mass(es): "166.0/166.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:28:45 PM
Modified: NO

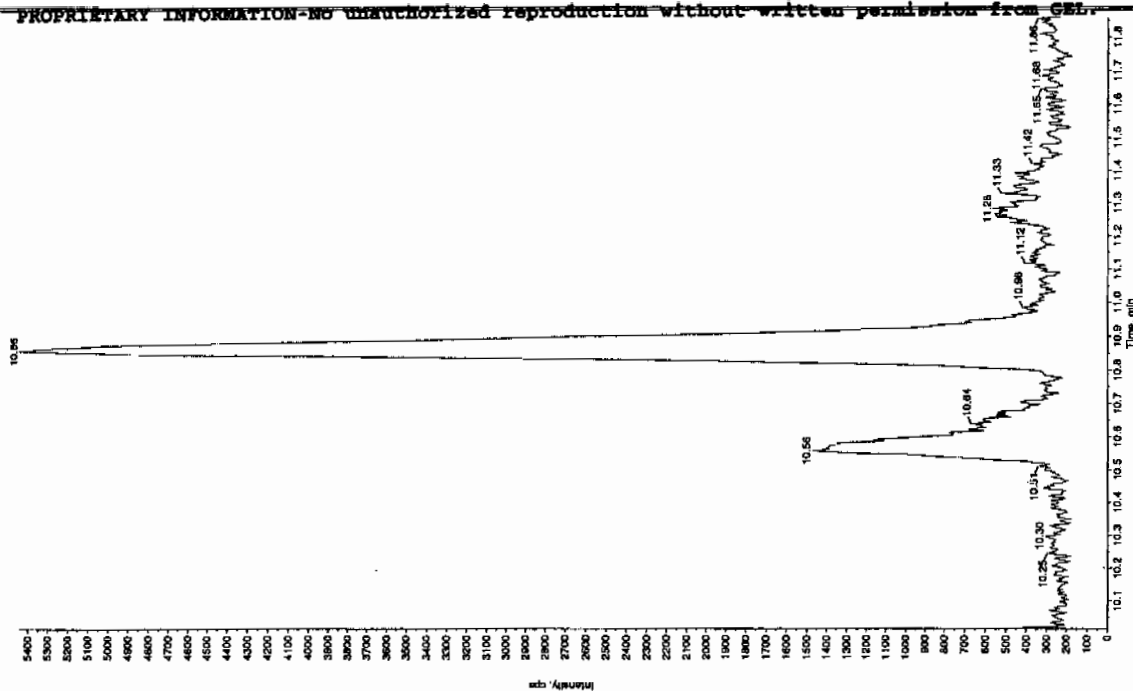
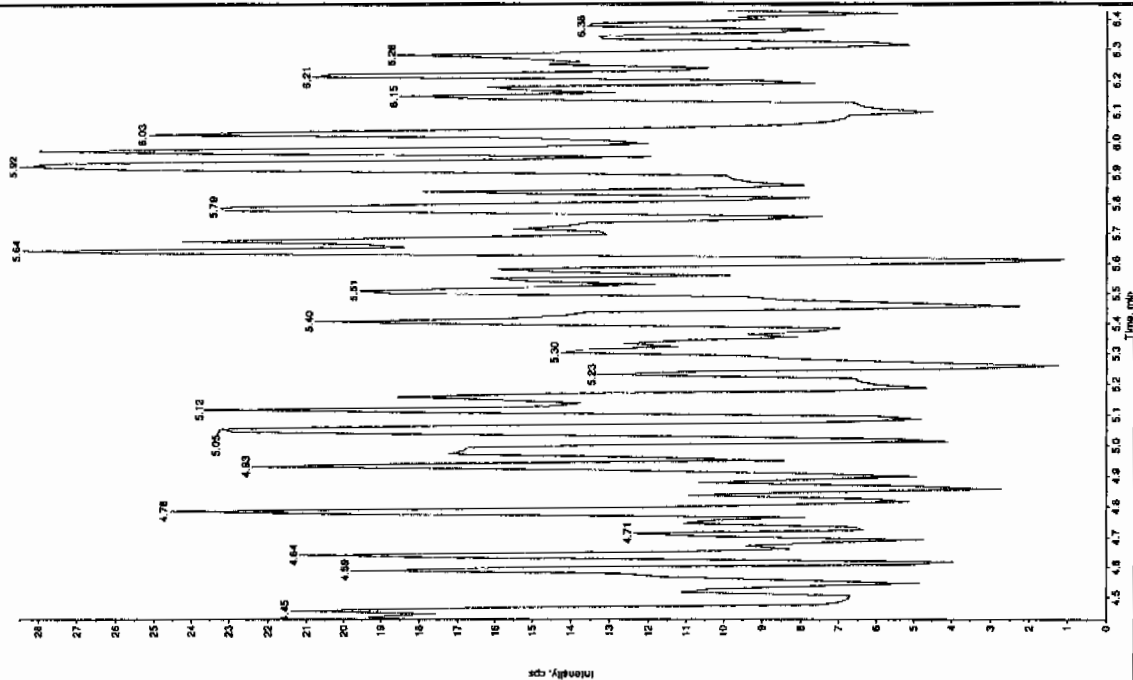


Sample Name: "XIBLK01" Sample ID: "JILER" File: "EXS0322002.wit"
Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:28:45 PM
Modified: No

Sample Name: "XIBLK01" Sample ID: "JILER" File: "EXS0322002.wit"
Peak Name: "Tri(6-oxoethyl) phosphine" Mass(es): "359.191.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:28:45 PM
Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

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)
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
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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 17 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\EXP0412009a

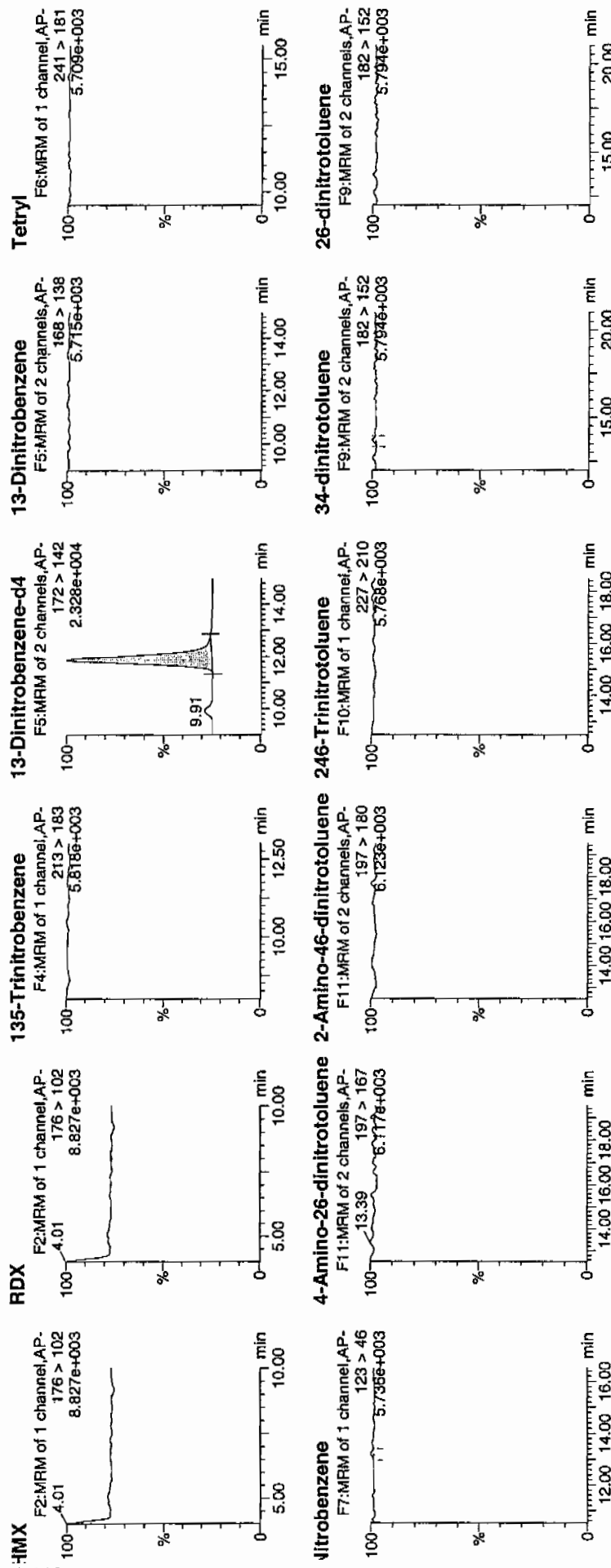
Date: 12-Apr-2010

Time: 19:36:32

Page ID: XIBLK02

Vial: 1:1,A

WAT
-110102

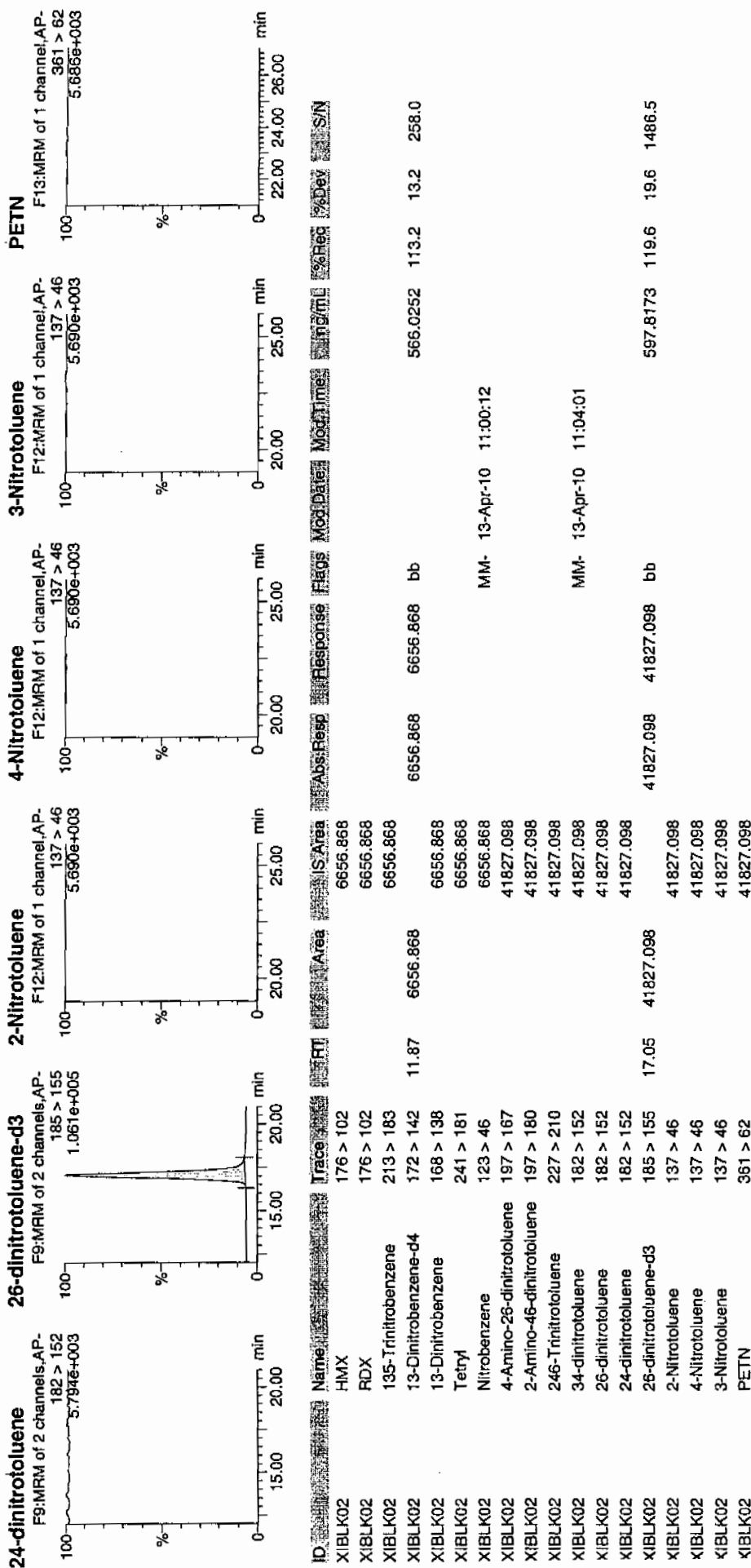


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 18 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:22:22 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

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

3EL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 21 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\EXP0412011a

Date: 12-Apr-2010

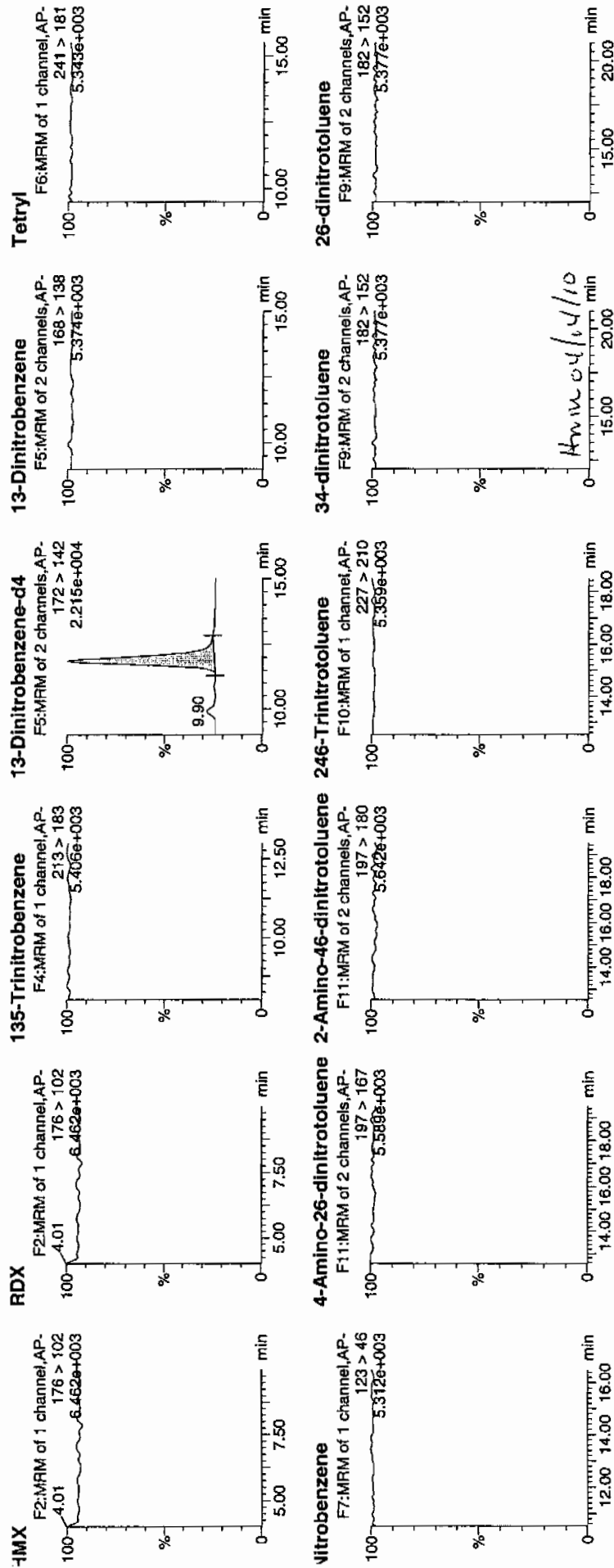
Time: 20:35:28

D: XIBLK03

Vial: 1:1,A

μg/g
9/13/10

Page 70 of 548

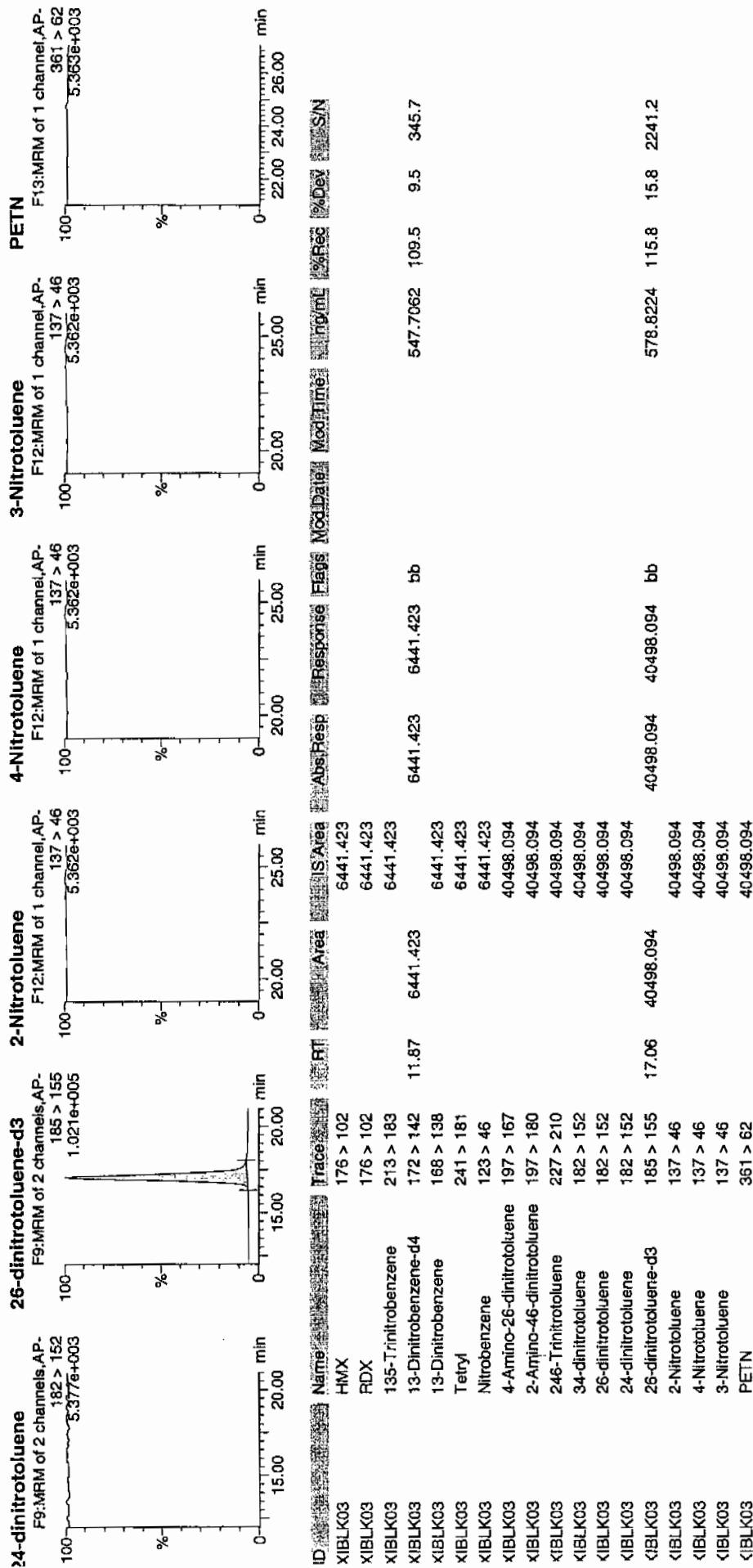


Quantify Sample Report

SEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 22 of 77

Dataset: C:\MASSL\YNNXNew_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

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)
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
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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 47 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\EXP0412024a

Date: 13-Apr-2010

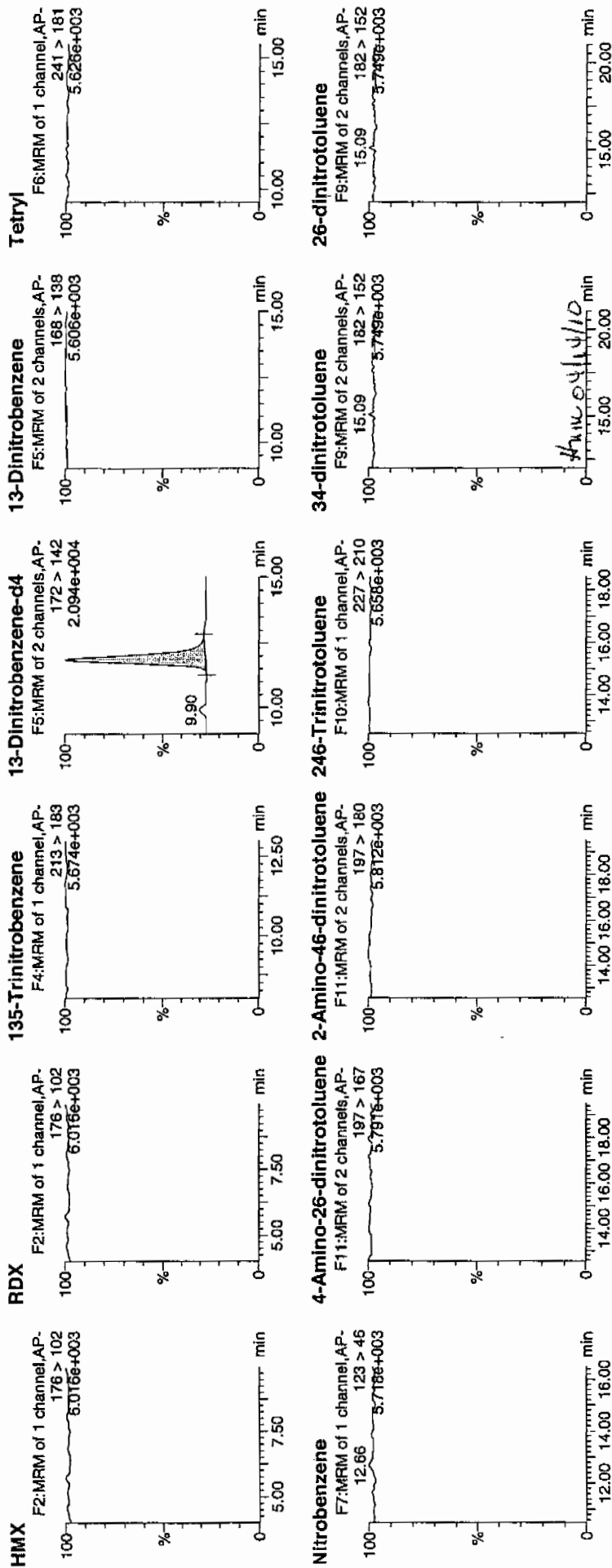
Time: 02:58:51

ID: XIBLK04

Vial: 1:1,A

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4/13/10

Page 73 of 548

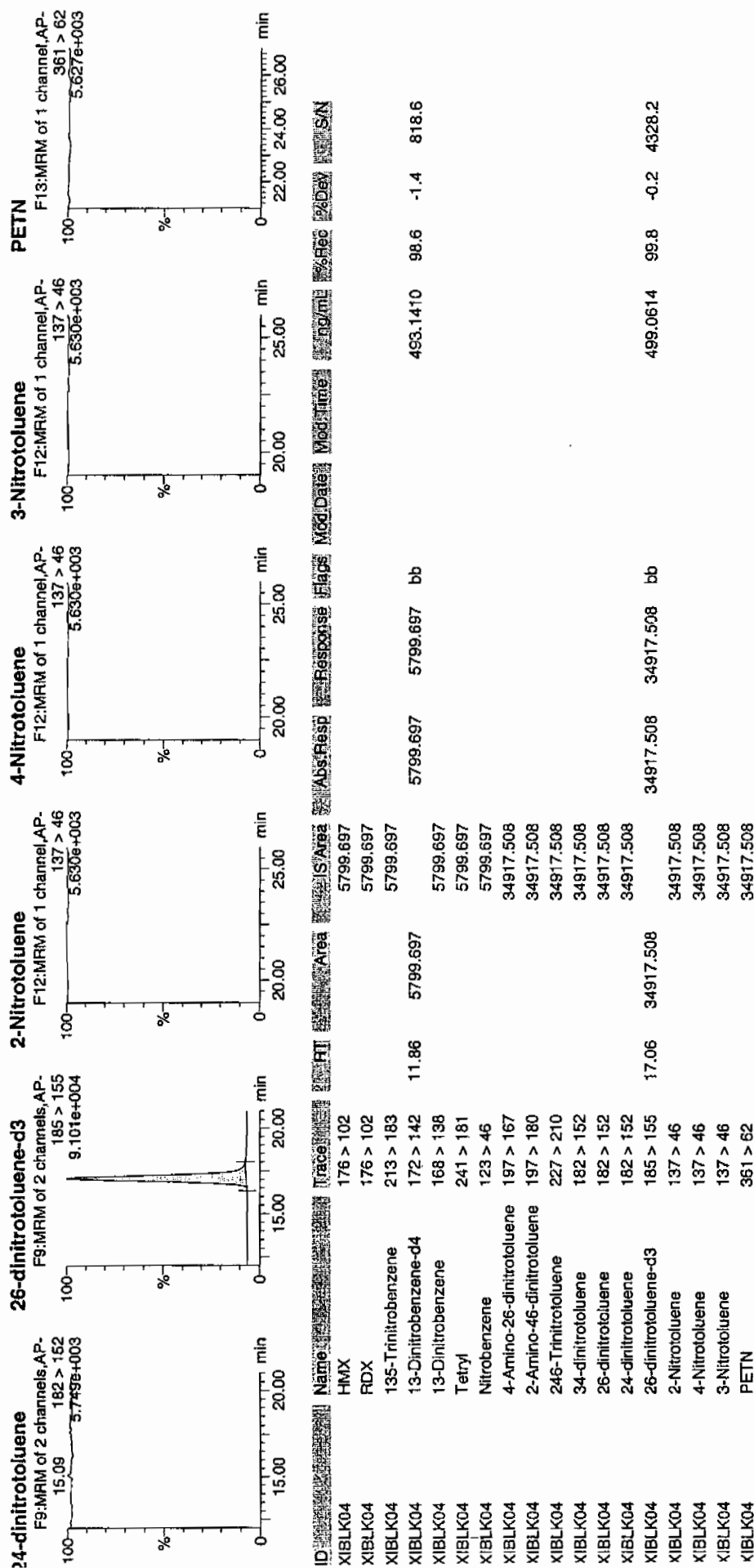


Quantify Sample Report

3EL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 48 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

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

Printed: Tue Apr 13 11:14:26 2010, Page 73 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qtd, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412037a

Date: 13-Apr-2010

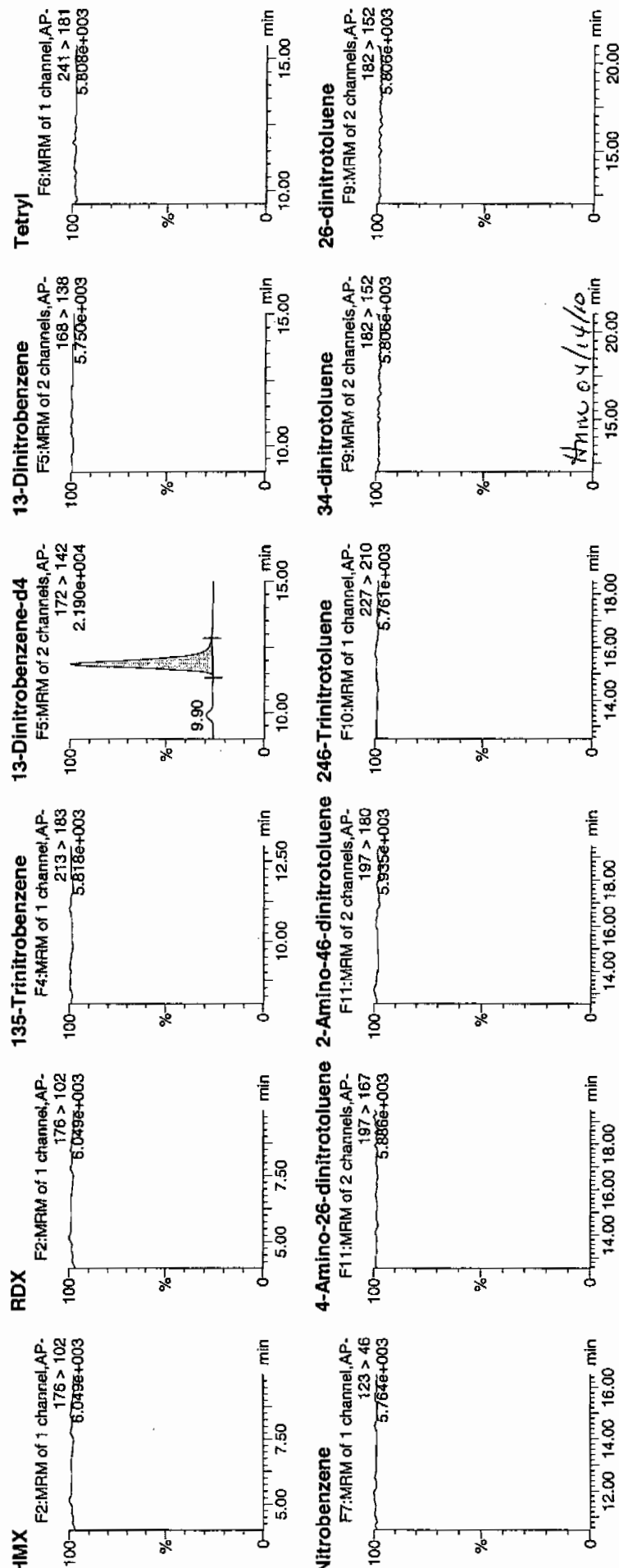
Time: 09:22:18

D: XIBLK05

Vial: 1:1,A

11/13/10

Page 76 of 548

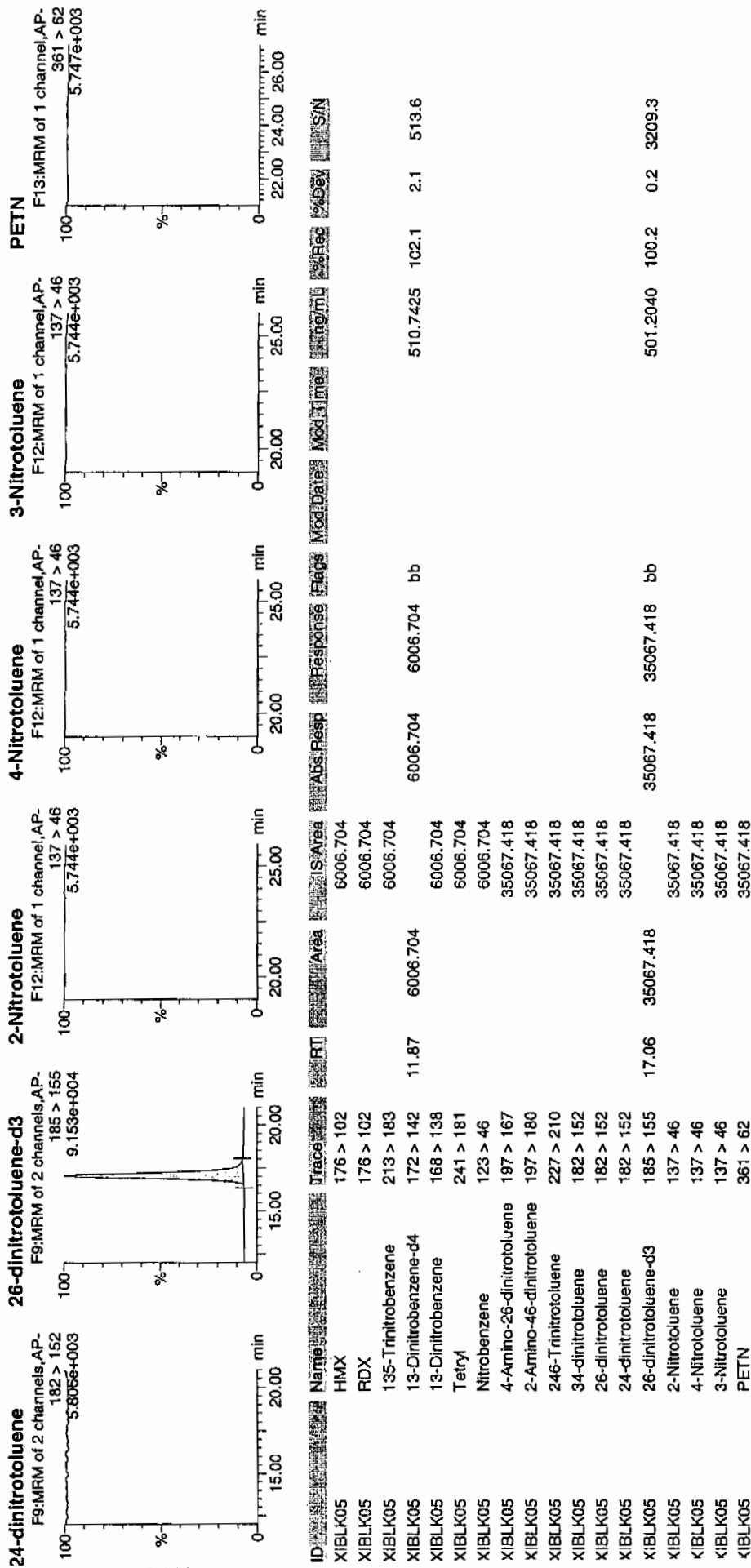


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 74 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 13-APR-10 11:20

GEL Data File: EXP0412041a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	519.054
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
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	648.08
2,4,6-Trinitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 5 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412041a

Date: 13-Apr-2010

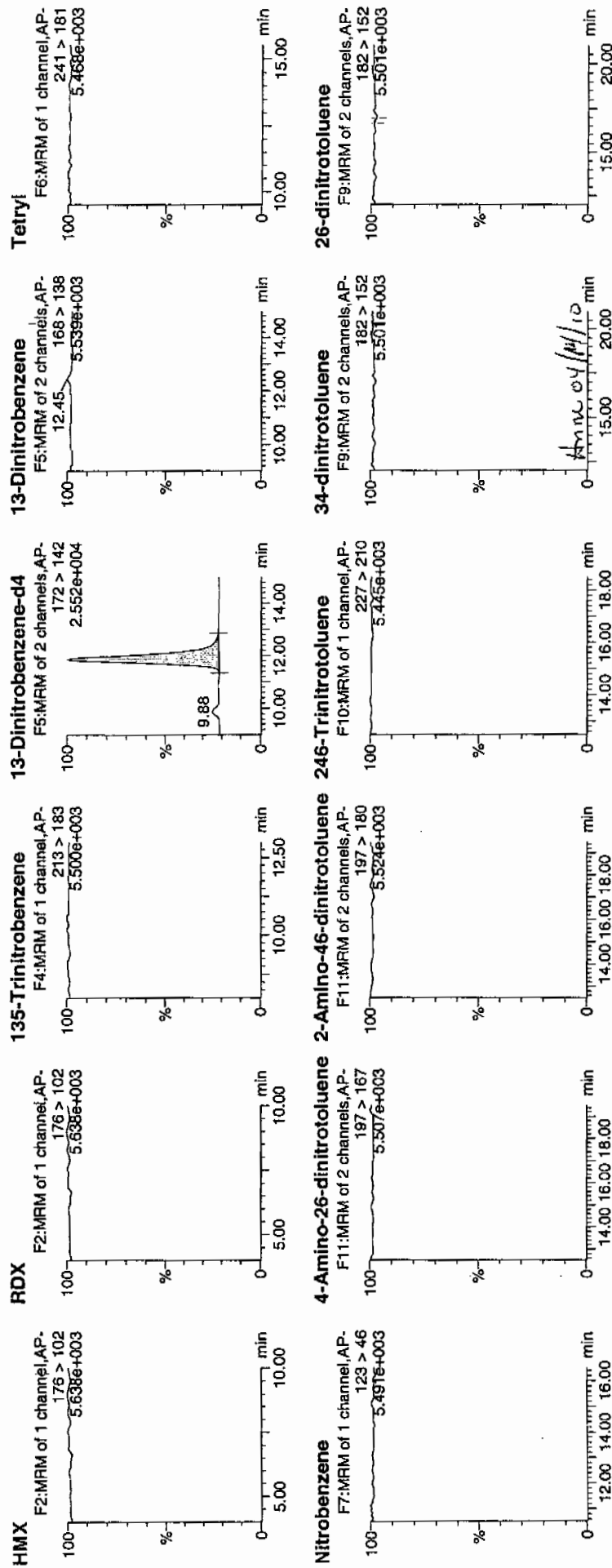
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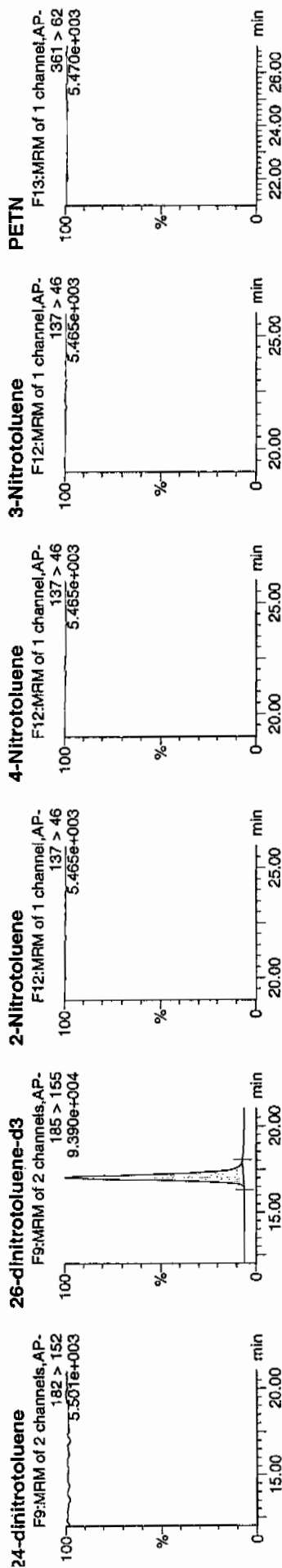
ID: XIBLK06

Vial: 1:1,A

100%
5.338e+003

Page 79 of 548





ID	Name	Trace	RT	Area	IS Area	Abs:Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK06	HMX	176 > 102			7621.890									
XIBLK06	RDX	176 > 102			7621.890									
XIBLK06	135-Trinitrobenzene	213 > 183			7621.890									
XIBLK06	13-Dinitrobenzene-d4	172 > 142	11.87	7621.890		7621.890	7621.890	bb			648.0798	129.6	29.6	880.4
XIBLK06	13-Dinitrobenzene	168 > 138			7621.890									
XIBLK06	Tetryl	241 > 181			7621.890									
XIBLK06	Nitrobenzene	123 > 46			7621.890									
XIBLK06	4-Amino-26-dinitrotoluene	197 > 167			36316.328									
XIBLK06	2-Amino-46-dinitrotoluene	197 > 180			36316.328									
XIBLK06	246-Trinitrotoluene	227 > 210			36316.328									
XIBLK06	34-dinitrotoluene	182 > 152			36316.328									
XIBLK06	26-dinitrotoluene	182 > 152			36316.328				MM-	14-Apr-10	09:11:01			
XIBLK06	24-dinitrotoluene	182 > 152			36316.328									
XIBLK06	26-dinitrotoluene-d3	185 > 155	17.05	36316.328		36316.328	36316.328	bb			519.0541	103.8	3.8	1500.7
XIBLK06	2-Nitrotoluene	137 > 46			36316.328									
XIBLK06	4-Nitrotoluene	137 > 46			36316.328									
XIBLK06	3-Nitrotoluene	137 > 46			36316.328									
XIBLK06	PETN	361 > 62			36316.328									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 13-APR-10 15:46

GEL Data File: EXP0412050a

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	555.622
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	595.796
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

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412050a

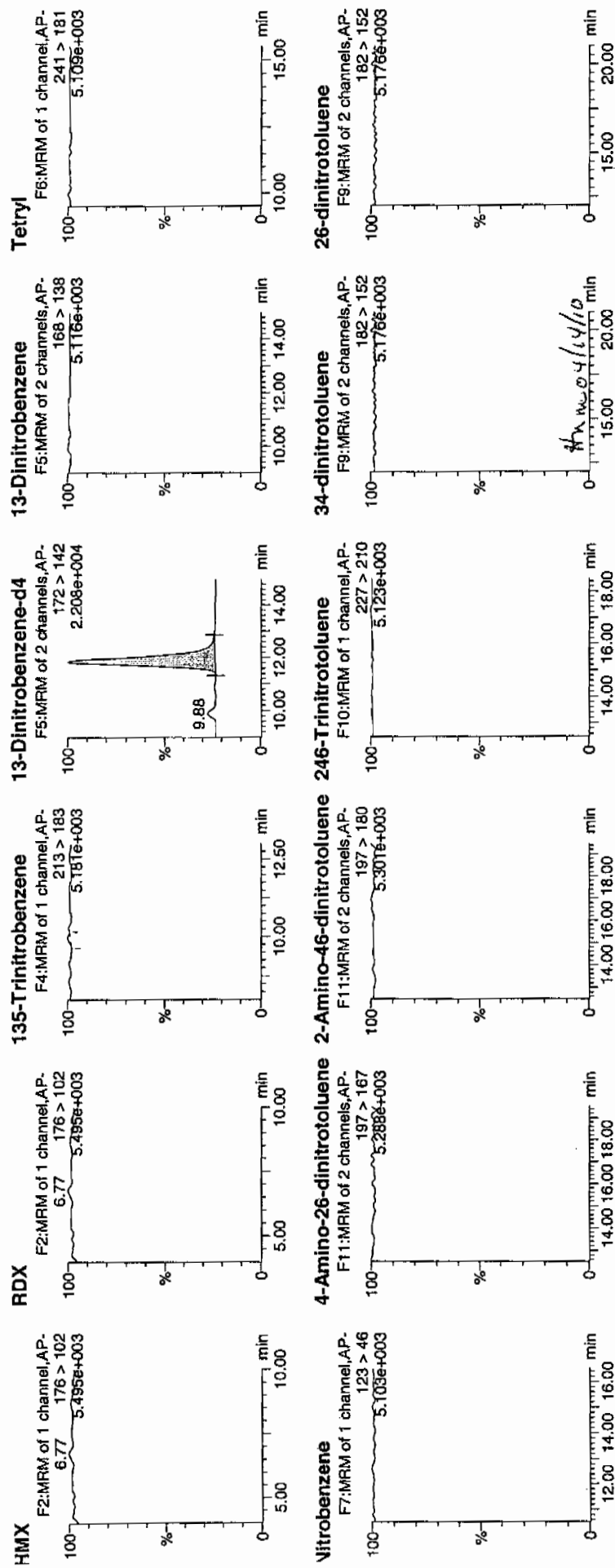
Date: 13-Apr-2010

Time: 15:46:11

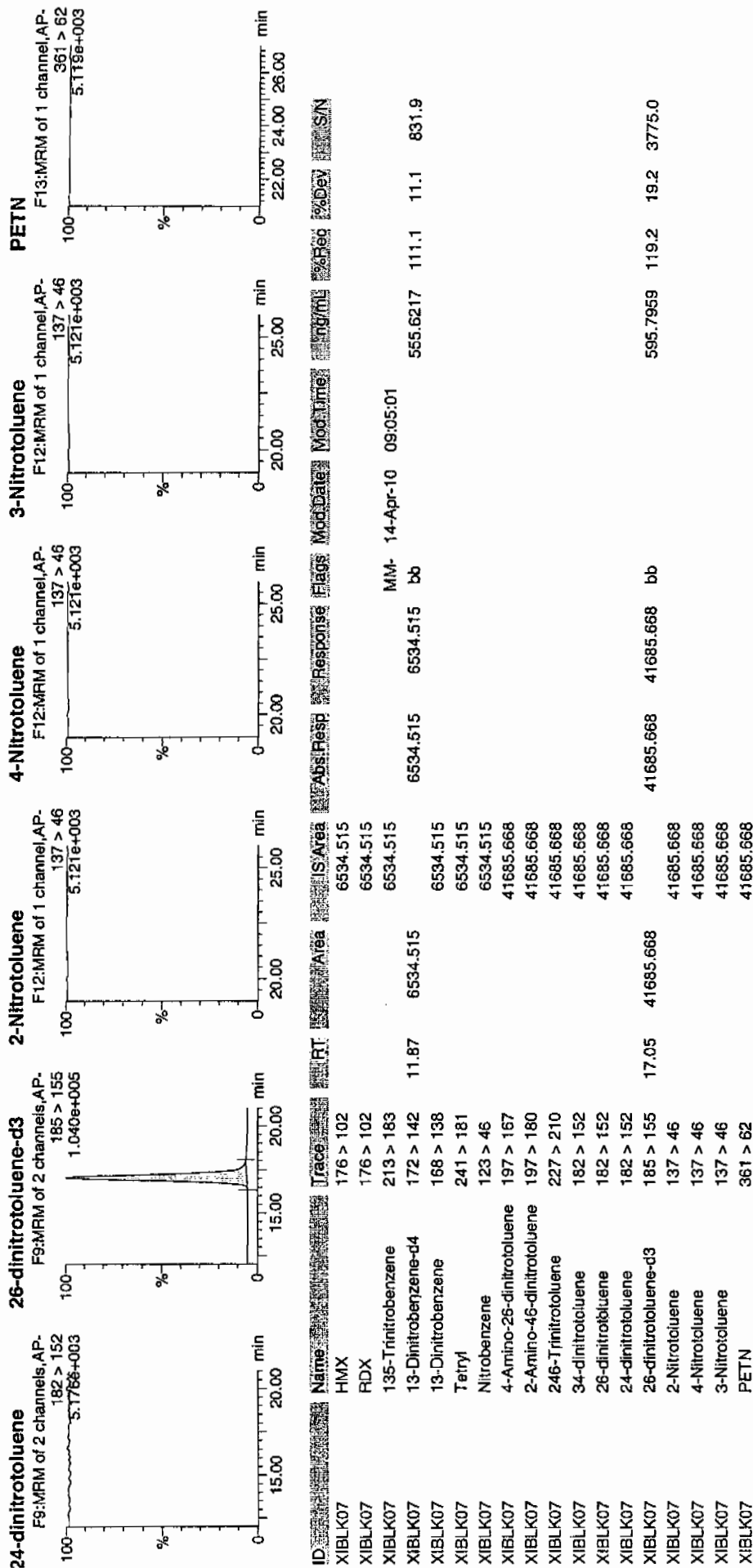
ID: XIBLK07

Vial: 1:1,A

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4/14/10



Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 13-APR-10 21:10

GEL Data File: EXP0412061a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	563.322
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
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	531.786

Quantify Sample Report

3EL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 45 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412061a

Date: 13-Apr-2010

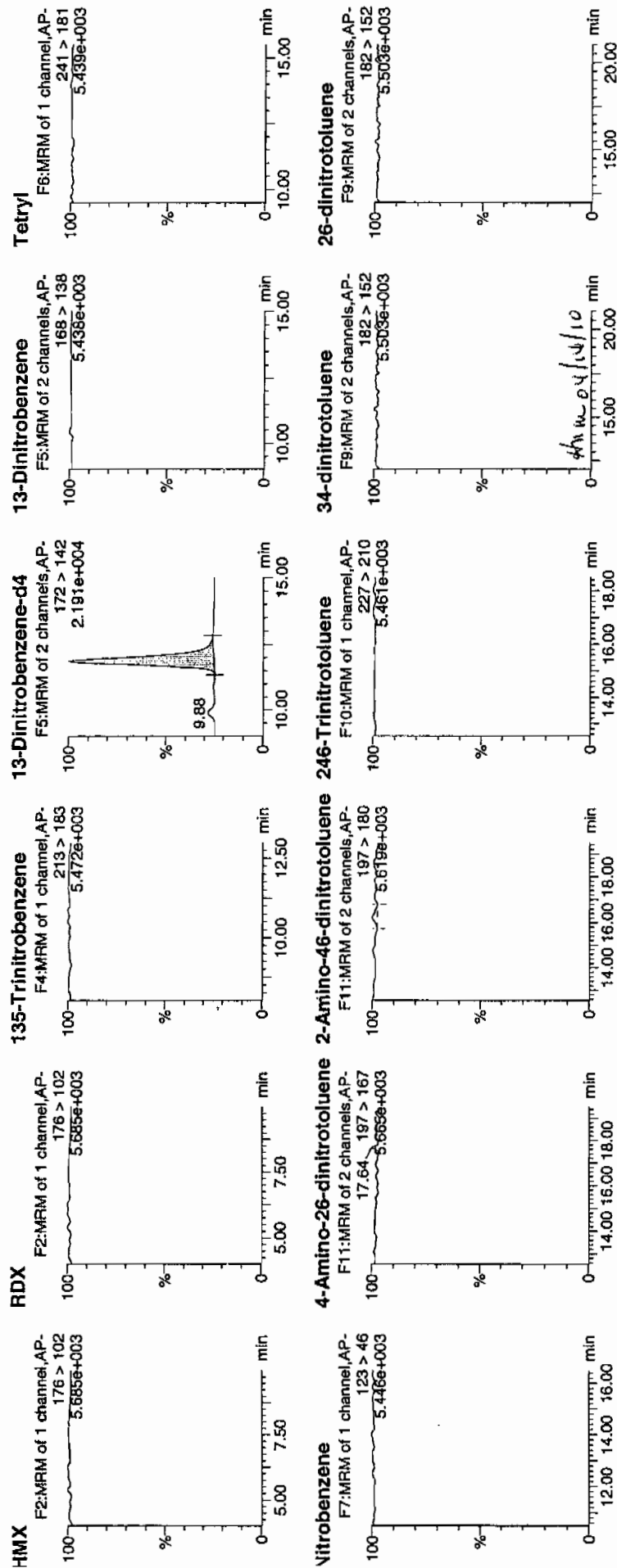
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D: XIBLK08

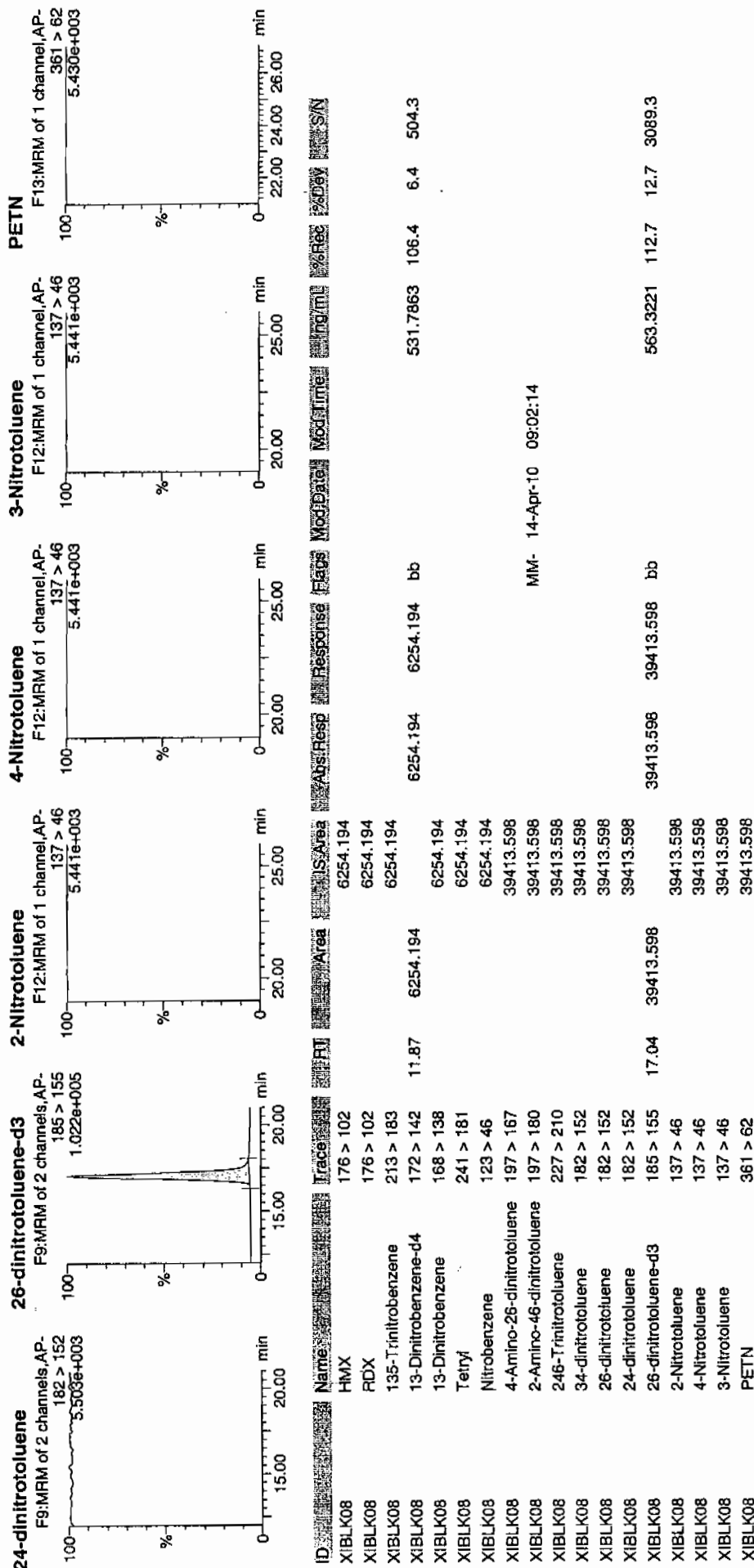
Vial: 1:1,A

137
4/14/10

Page 85 of 548



Dataset: C:\MASSLYN\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 22-MAR-10 17:34

GEL Data File: EXS03220010.wiff

Instrument ID: LCMSMS

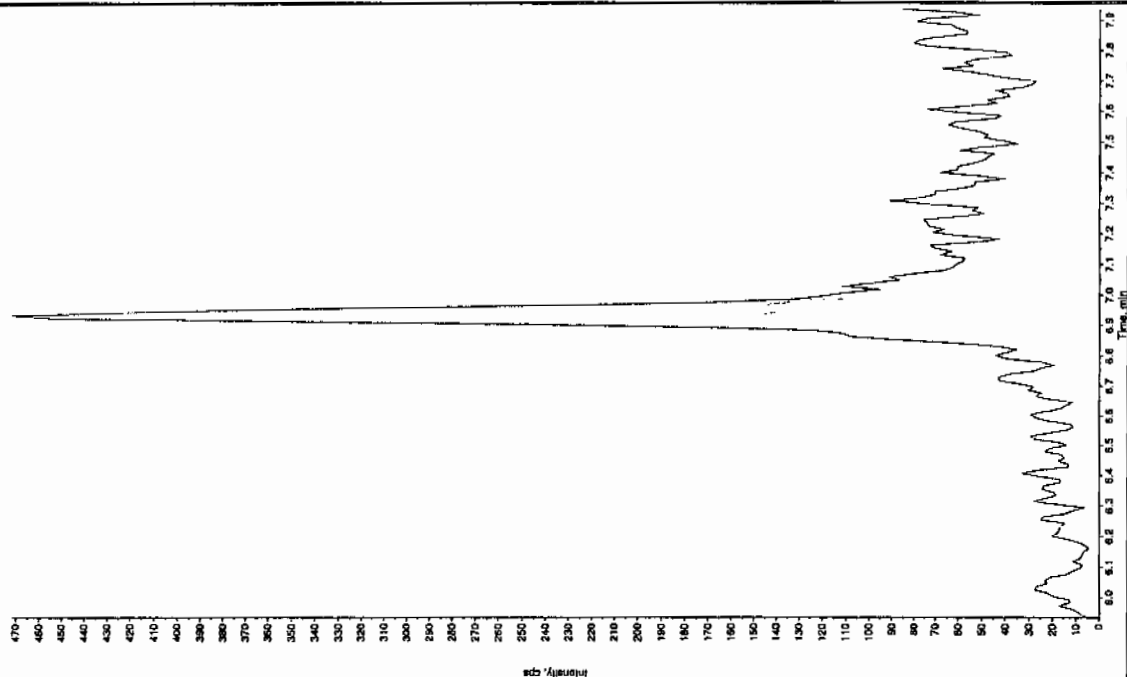
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	13.9
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

8/21 3/27/10

Sample Name: "XIBUK02" Sample ID: "1111ER" File: "EX50322010.wif"
 Peak Name: "TATB" Mass(es): "257.2254.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

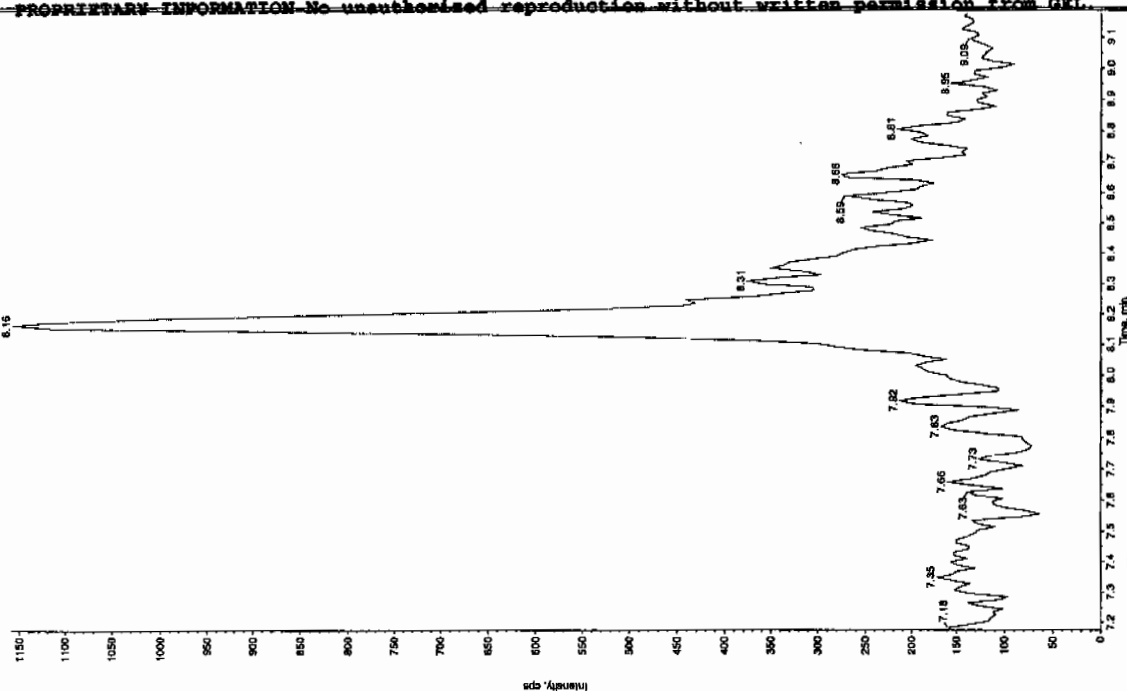
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5/31/19 PM
 Acq. Time: 5:34:19 PM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBUK02" Sample ID: "1111ER" File: "EX50322010.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0463.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

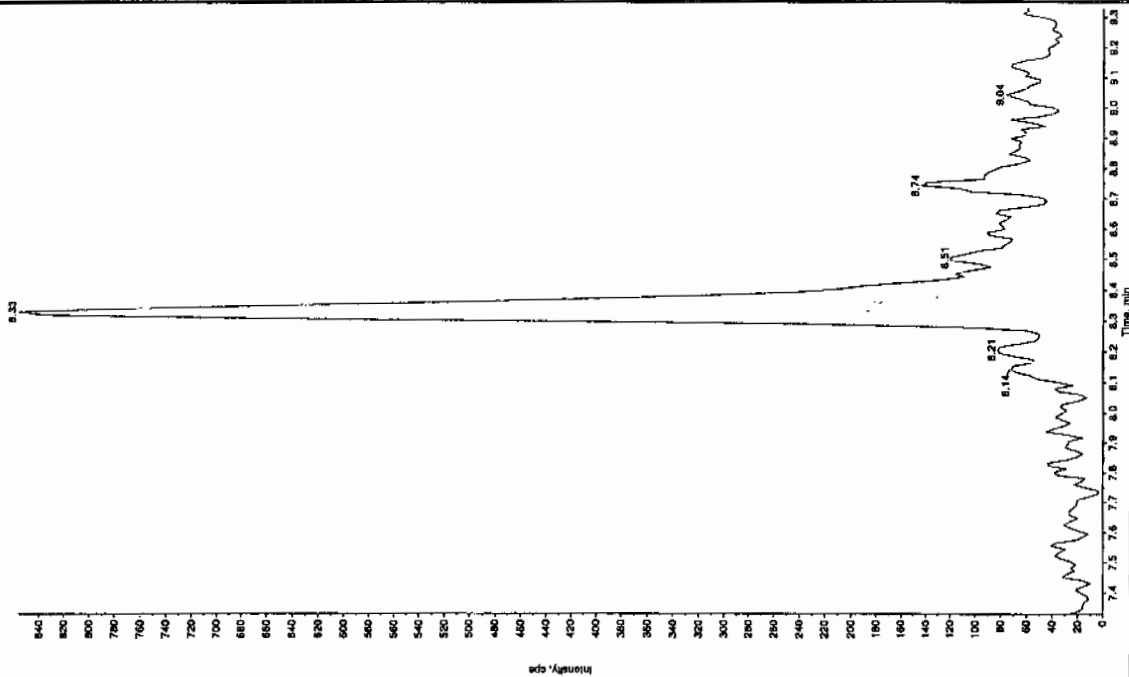
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5/31/19 PM
 Acq. Time: 5:34:19 PM
 Modified: No



8/21 3/27/10

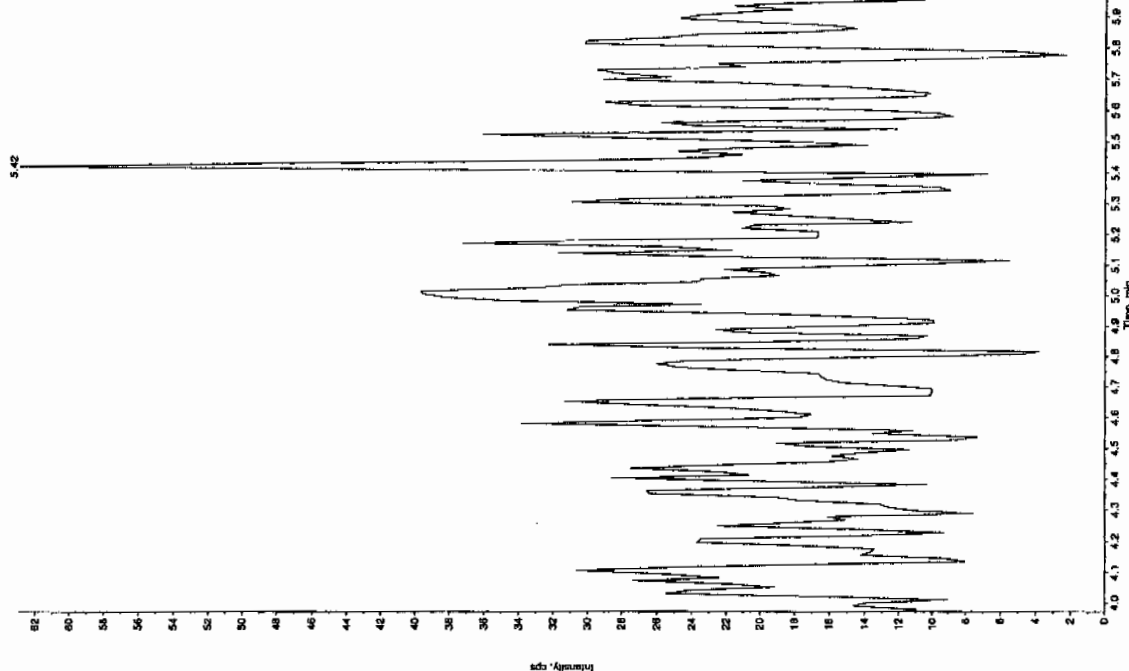
Sample Name: "XIBLK02" Sample ID: "1111ER" File: "EXS0322010.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "162.17151.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 5:34:19 PM
Modified: No



Sample Name: "XIBLK02" Sample ID: "1111ER" File: "EXS0322010.wif"
Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "165.0465.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

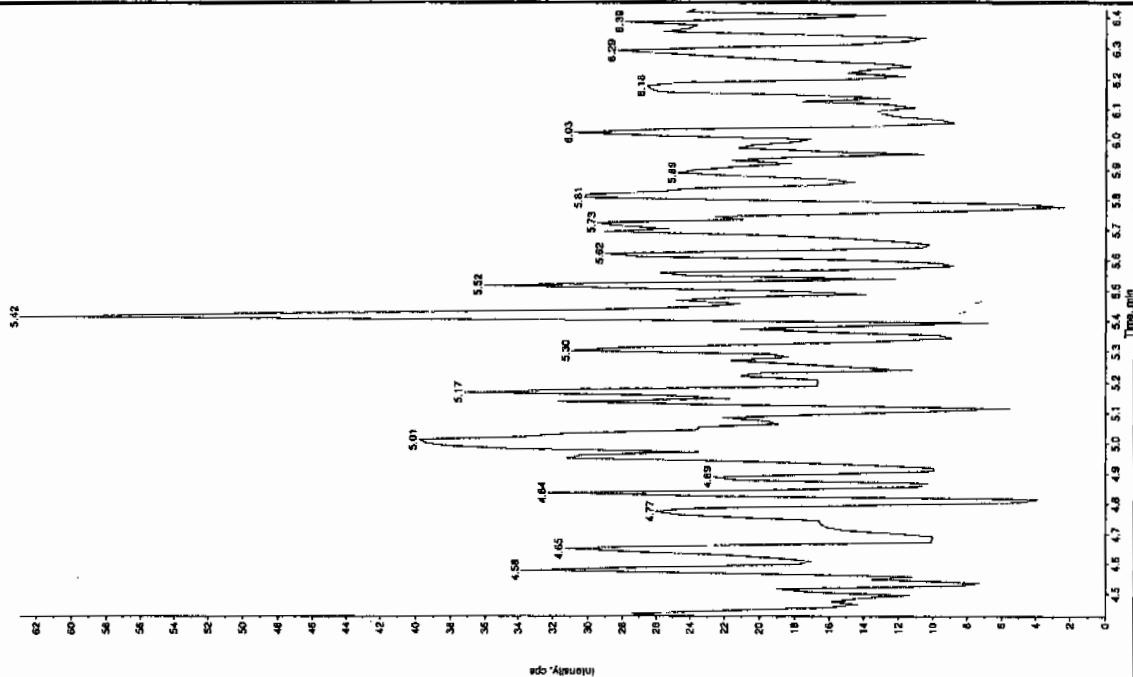
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 5:34:19 PM
Modified: No



Sample Name: "XBLX02" Sample ID: "11111" File: "EX503220010.wif"
 Peak Name: "24-Oxamino-5-nitrofluorene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:19 PM
 Modified: No

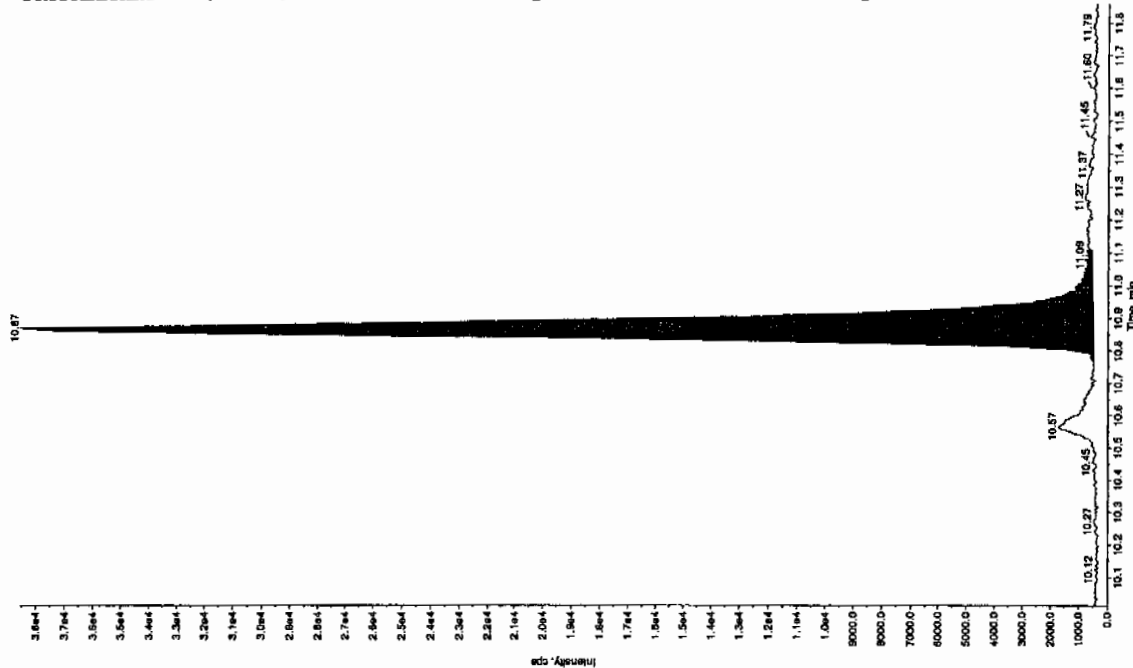
Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.51e+005 counts
 Height: 38049.168 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XBLX02" Sample ID: "11111" File: "EX503220010.wif"
 Peak Name: "trifluoromethyl phosphine" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 13.9 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:19 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.51e+005 counts
 Height: 38049.168 cps
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 22-MAR-10 18:05

GEL Data File: EXS03220012.wiff

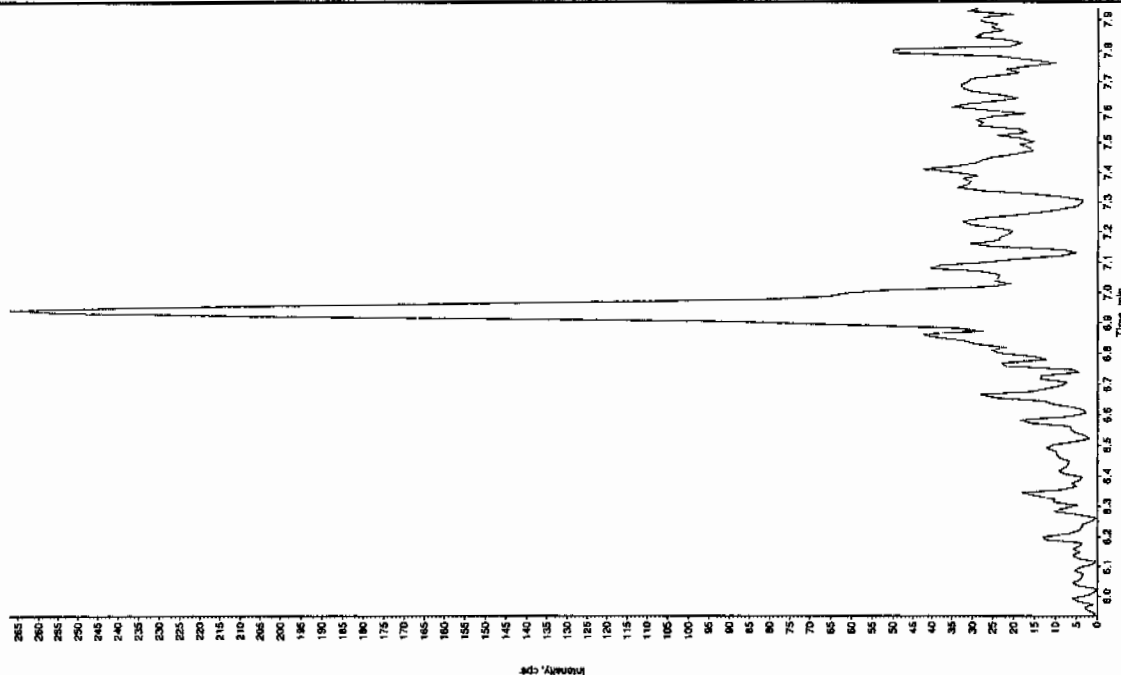
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

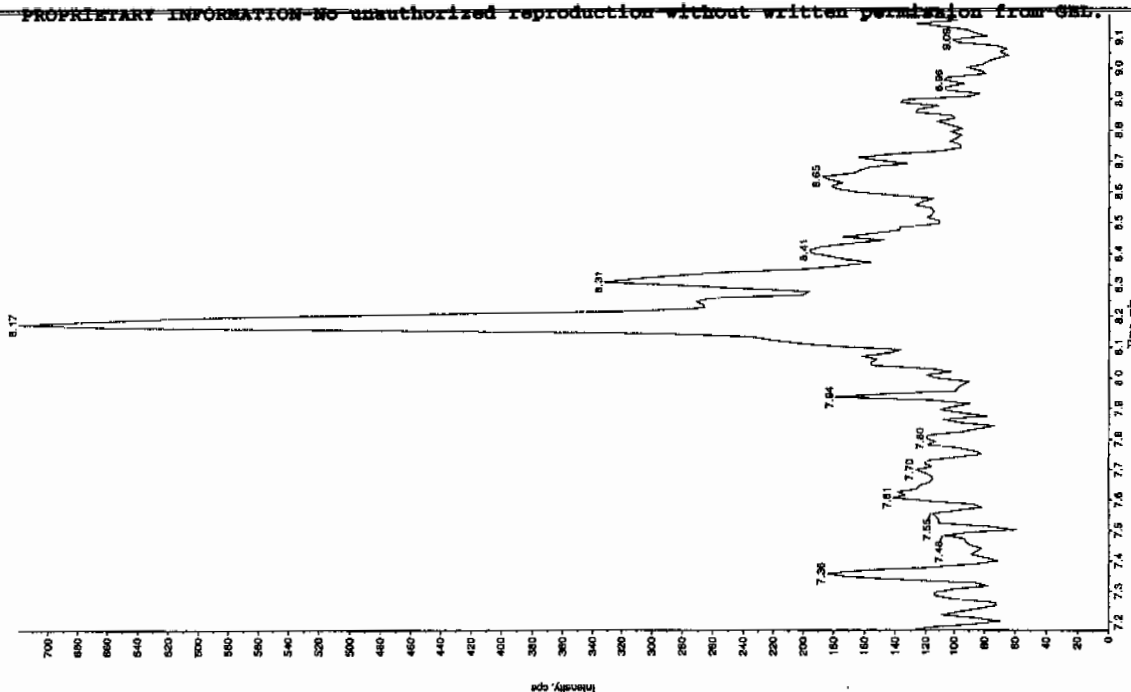
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	8.7
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

San 3/27/10

Sample Name: "XIBLK03" Sample ID: "1111ER" File: "EXS03220012.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: 3/22/2010
Acq. Time: 6:05:46 PM
Modified: No



Sample Name: "XIBLK03" Sample ID: "1111ER" File: "EXS03220012.will"
Peak Name: "35-Dinitroaniline" 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: 3/22/2010
Acq. Time: 6:05:46 PM
Modified: No



HW 03/29/10

Sample Name: "XIBLK03" Sample ID: "JILER" File: "EXS0220012.will"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1751.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

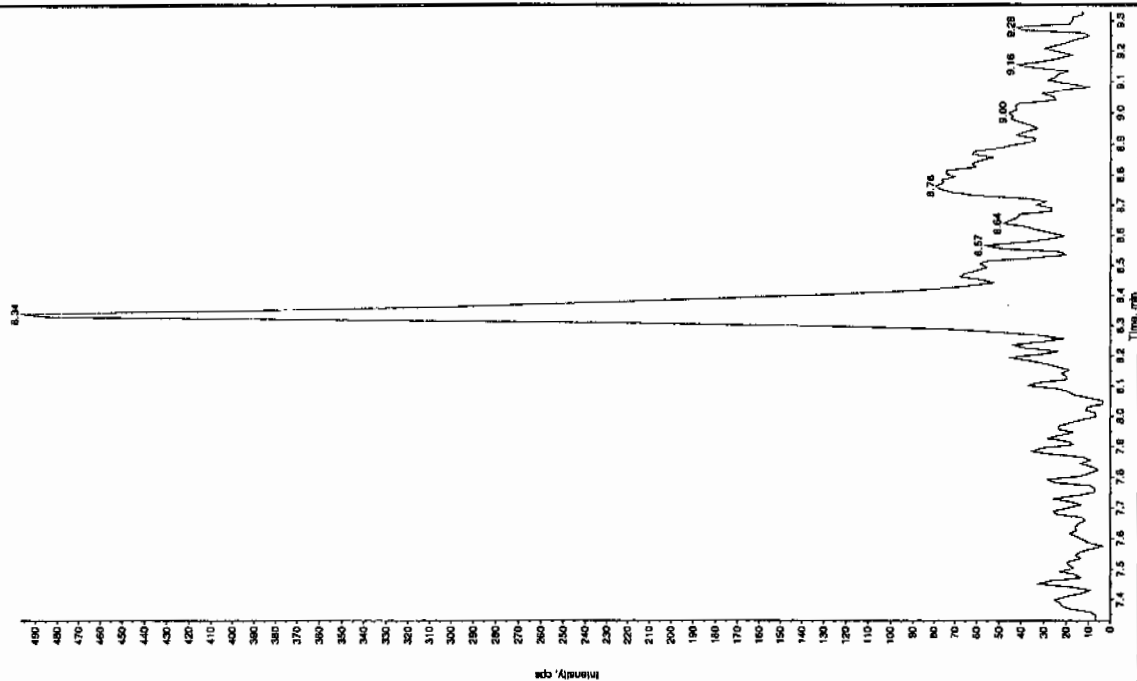
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/22/2010

Acq. Time: 6:05:45 PM

Modified: No



Sample Name: "XIBLK03" Sample ID: "JILER" File: "EXS0220012.will"
Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "196.0465.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

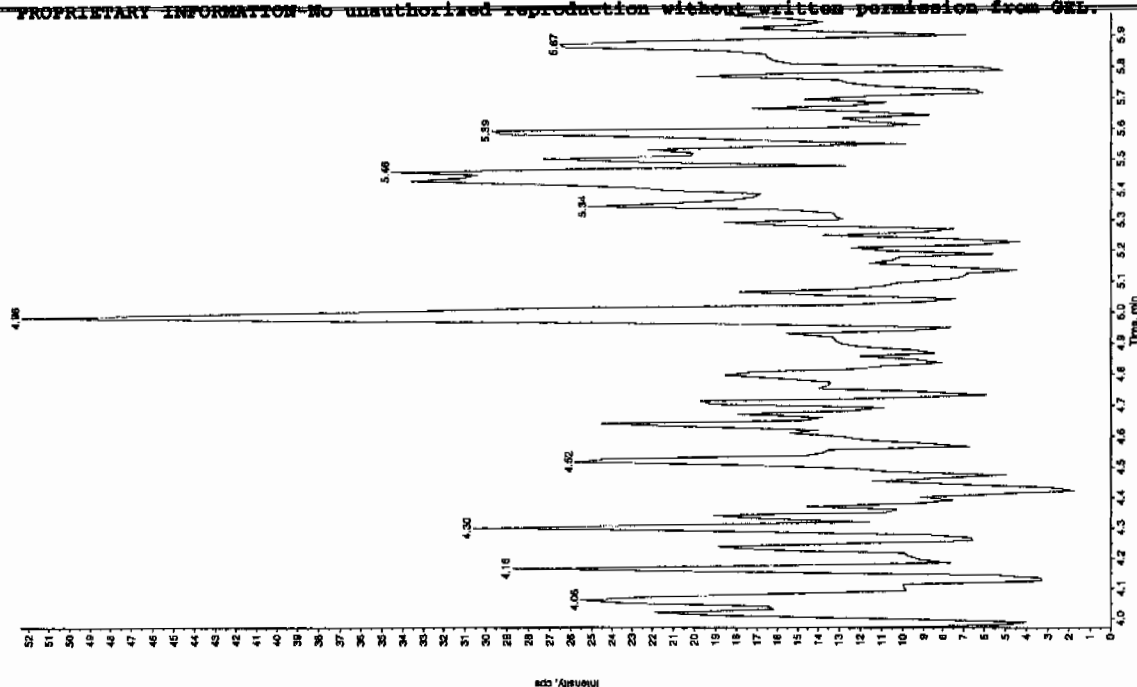
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/22/2010

Acq. Time: 6:05:45 PM

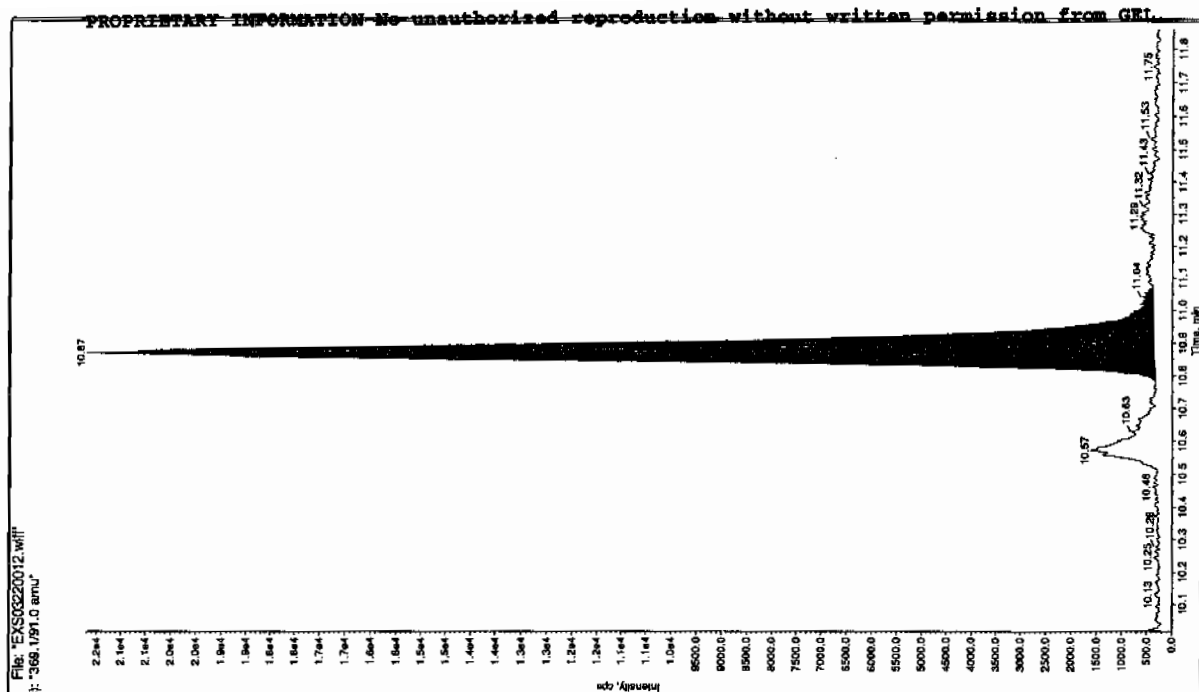
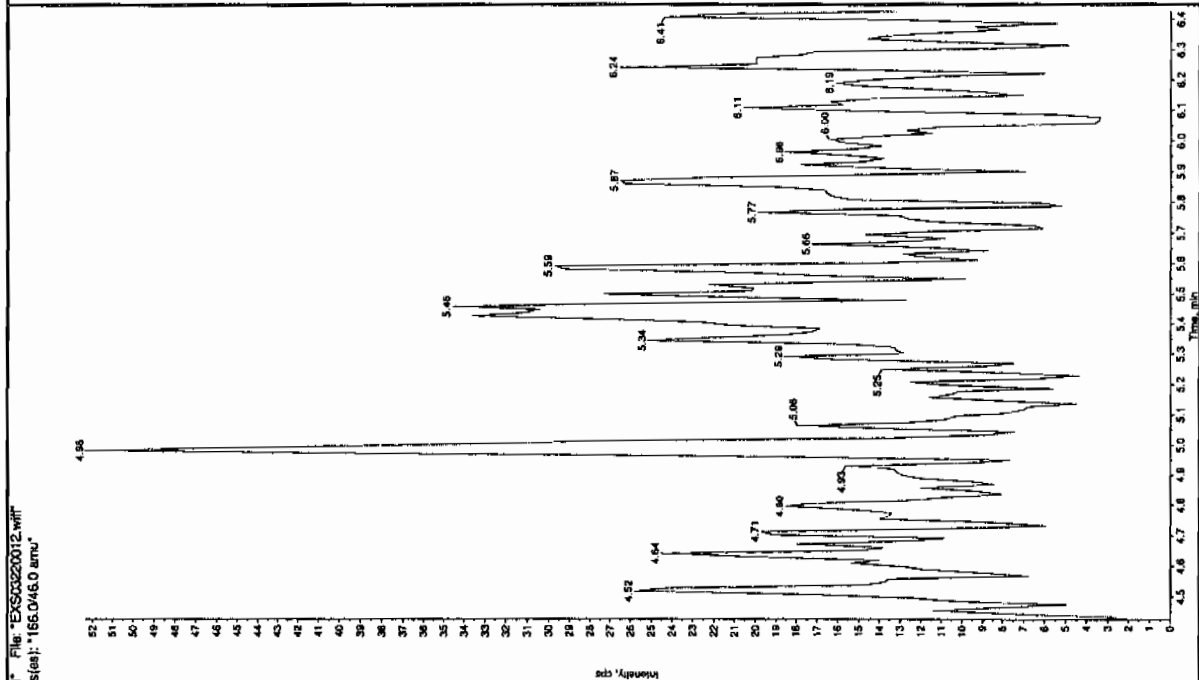
Modified: No



Sample Name: 'XIBLX03' Sample ID: '11111' File: 'EXS0322012.wif'
 Peak Name: '24-Diamino-6-nitrotoluene' Mass(es): '166.046.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 6:05:46 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 8.61e+004 counts
 Height: 21362.526 cps
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 22-MAR-10 20:58

GEL Data File: EXS03220023.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	6.68
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 31/2010

Sample Name: "XBLK04" Sample ID: "1111ER" File: "EXS0320023.wif"

Peak Name: "TATB" Mass(es): 257.2/204.9 amu

Comment: "LCMSEXP_B" Annotation:

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

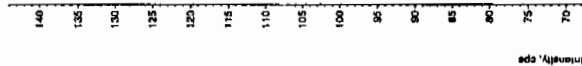
Calculated Conc: 0.00

Date: 3/22/2010

Time: 8:58:36 PM

Acq. Time: 8:58:36 PM

Modified: No



Sample Name: "XBLK04" Sample ID: "1111ER" File: "EXS0320023.wif"

Peak Name: "TATB" Mass(es): 257.2/204.9 amu

Comment: "LCMSEXP_B" Annotation:

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

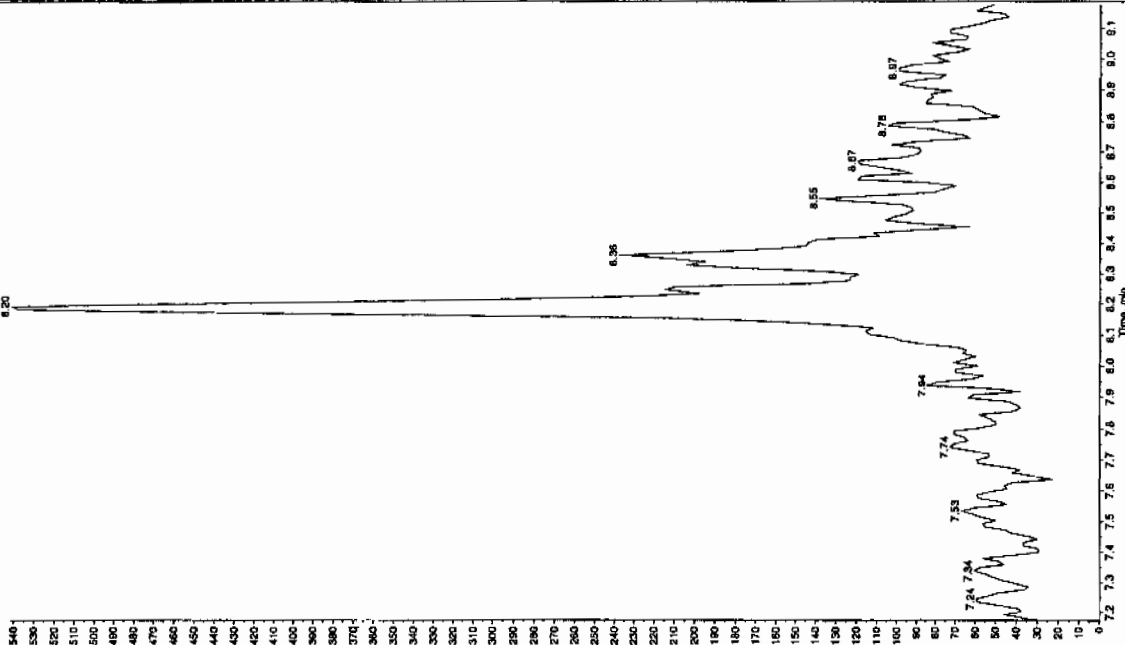
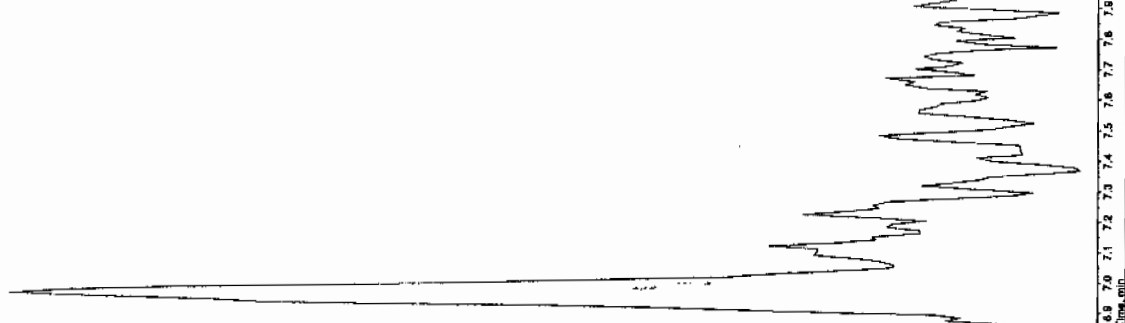
Calculated Conc: 0.00

Date: 3/22/2010

Time: 8:58:36 PM

Acq. Time: 8:58:36 PM

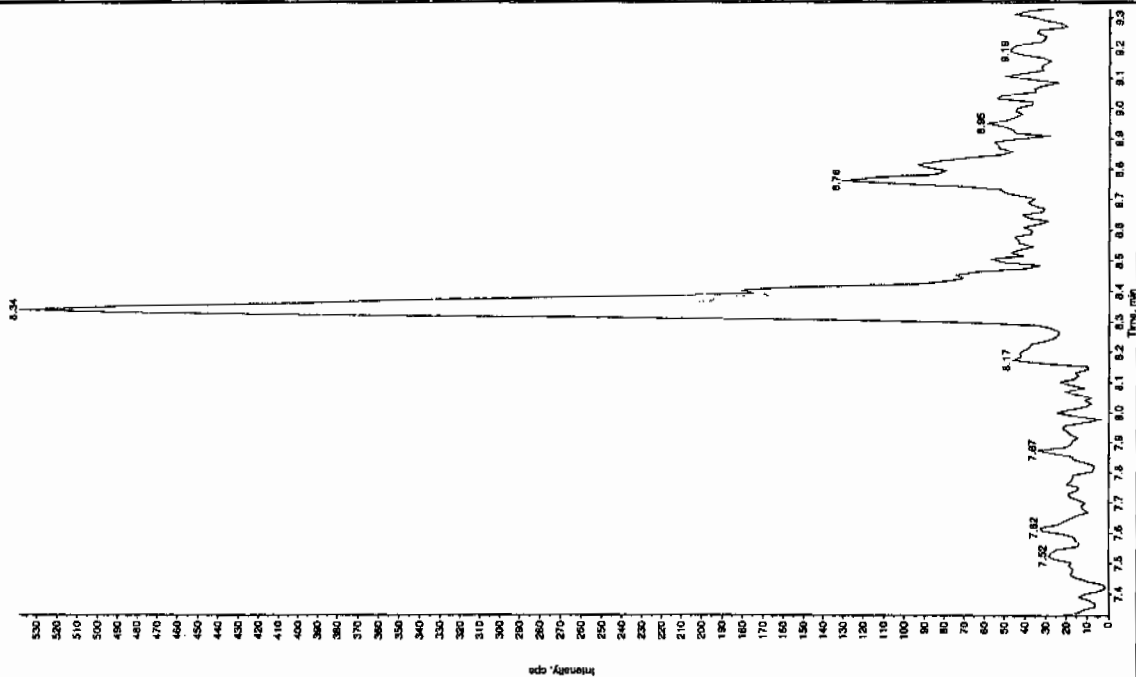
Modified: No



Jan 31/2010

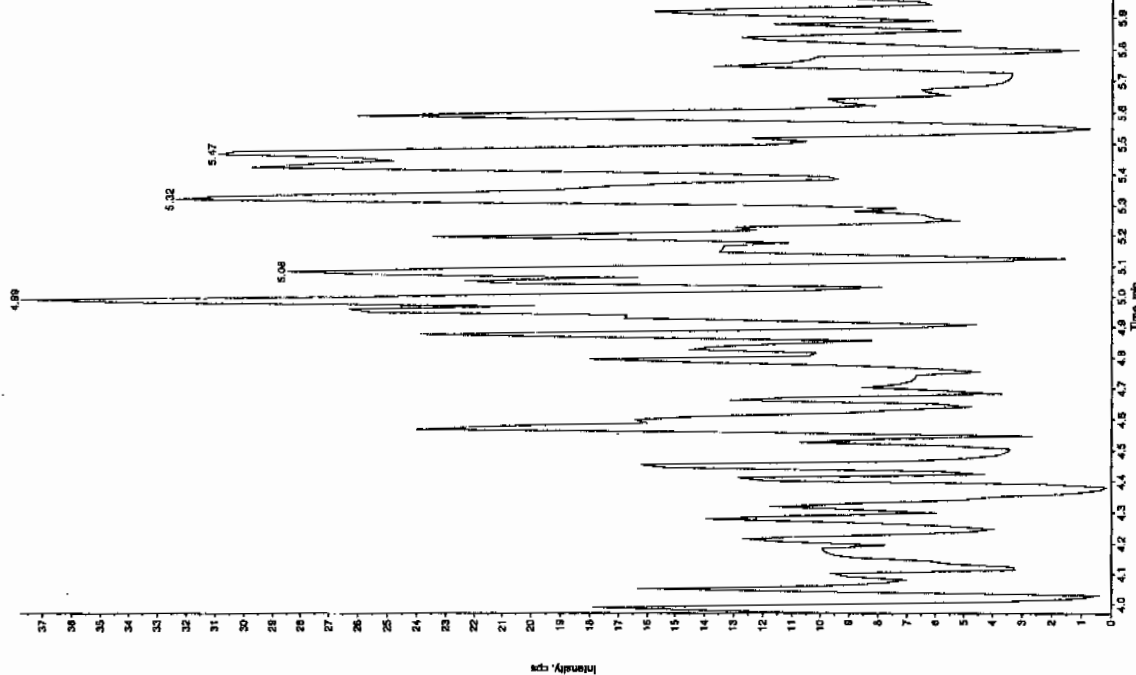
Sample Name: "XBLK04" Sample ID: "JHLER" File: "EXS03220023.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMS EXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:58:36 PM
 Modified: No



Sample Name: "XBLK04" Sample ID: "JHLER" File: "EXS03220023.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMS EXP_B" Annotation: ""

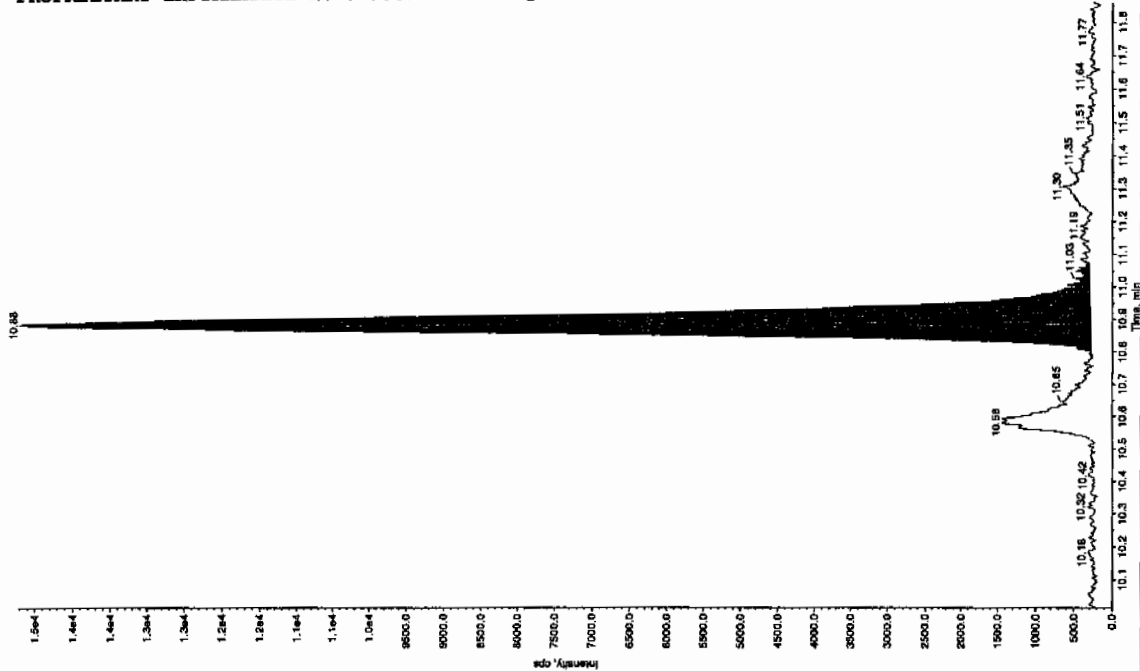
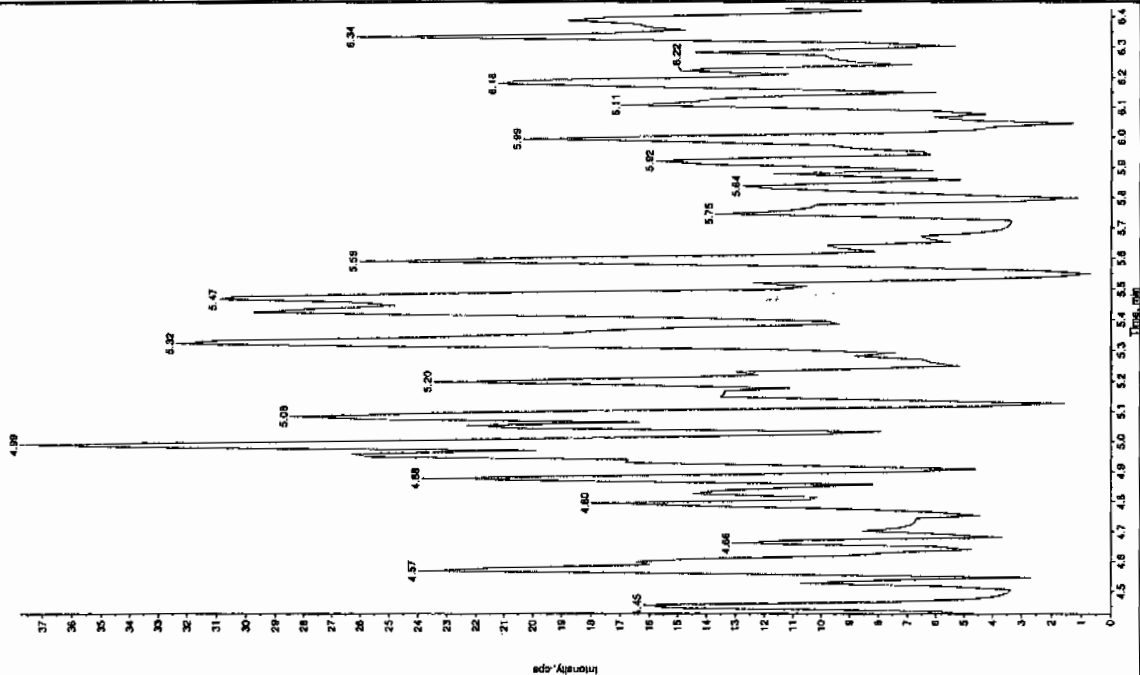
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:58:36 PM
 Modified: No



Sample Name: "XBLK04" Sample ID: "11LER" File: "EXS03220023.wif"
 Peak Name: "3,4,5-trinitrofluorobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:58:36 PM
 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.00e+004 counts
 Height: 14426.788 cps
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 23-MAR-10 00:22

GEL Data File: EXS03220036.wiff

Instrument ID: LCMSMS

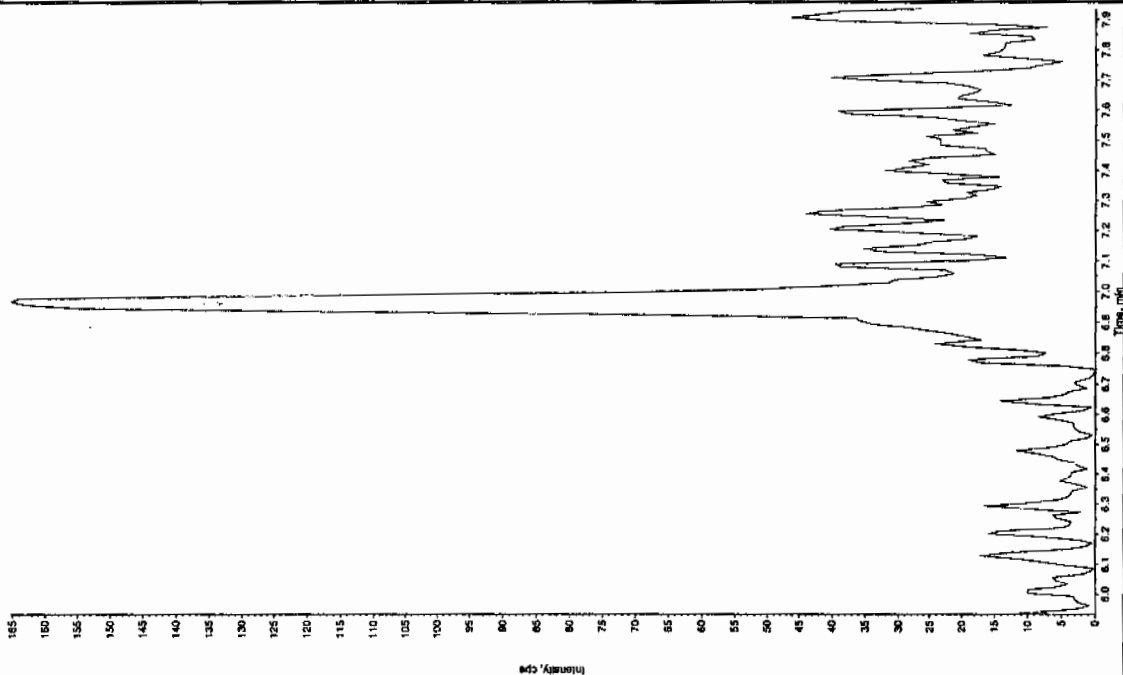
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.43
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

dan 3/27/10

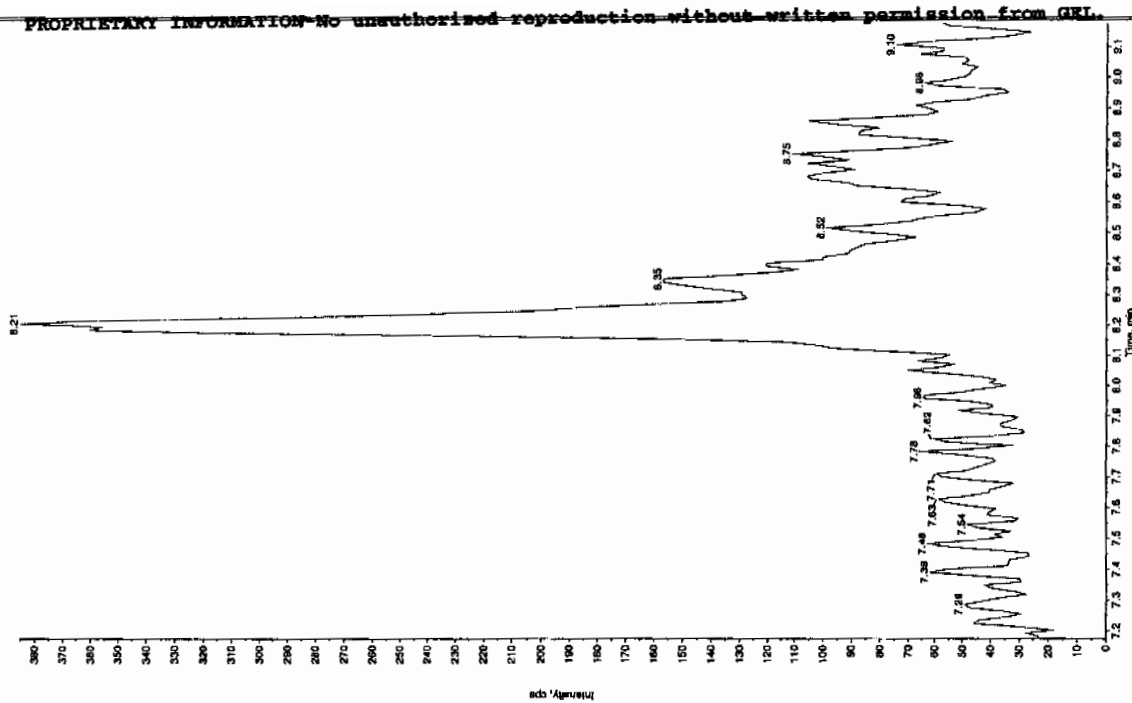
Sample Name: "XIBLX05" Sample ID: "11LER" File: "EXS03220038.wif"
Peak Name: "TATB" Mass(es): 237.2204.9 amu
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0/00 ng/mL
Calculated Conc: 3/23/2010
Acq. Date: 12/22/53 AM
Acq. Time: 12/22/53 AM
Modified: No



Sample Name: "XIBLX05" Sample ID: "11LER" File: "EXS03220038.wif"
Peak Name: "35-Dinitrofluorant" Mass(es): 182.046.0 amu
Comment: "LCMSEXP_B" Annotation: ""

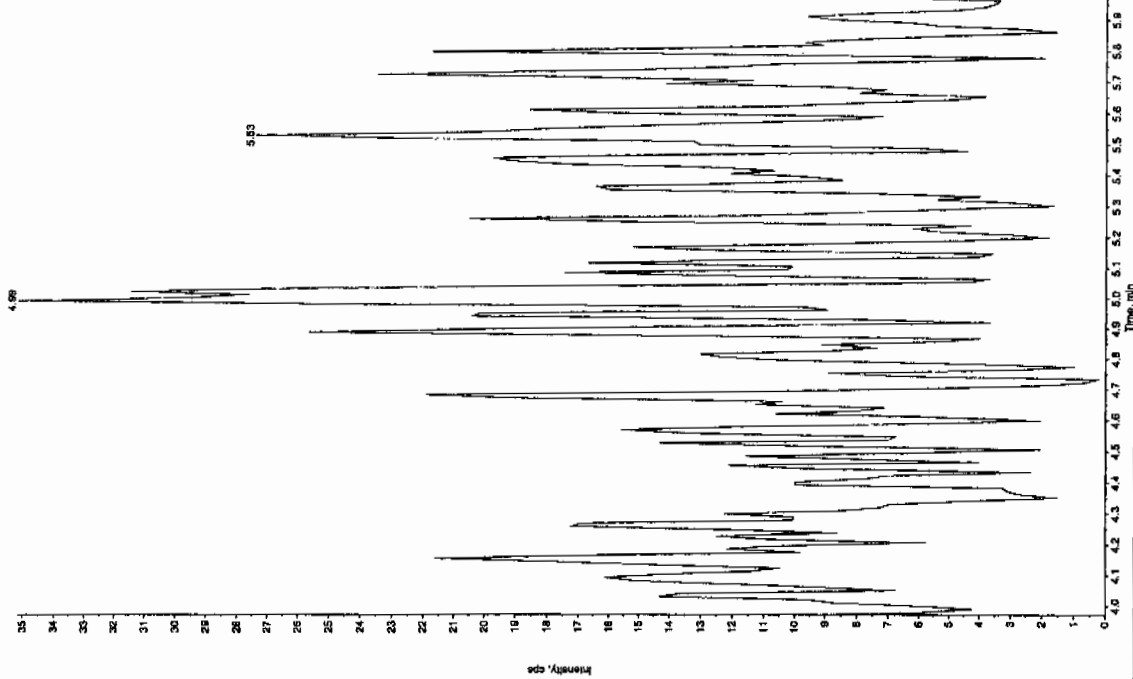
Sample Index: 1
Sample Type: Unknown
Concentration: 0/00 ng/mL
Calculated Conc: 3/23/2010
Acq. Date: 12/22/53 AM
Acq. Time: 12/22/53 AM
Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

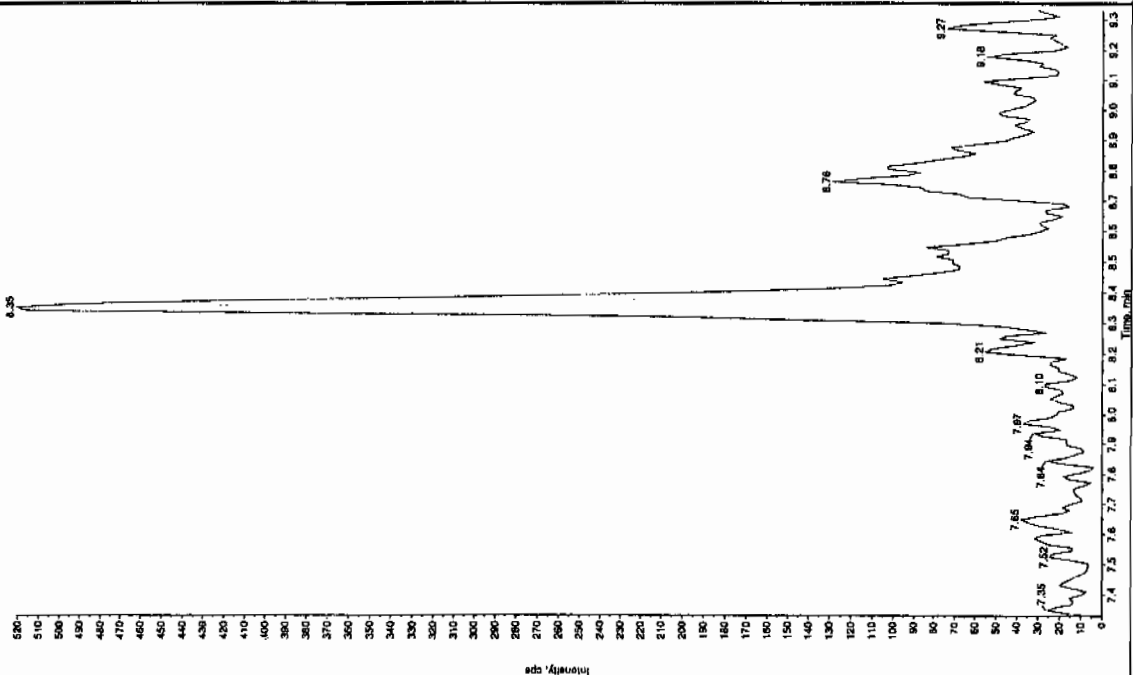
Sample Name: "XIBLK05" Sample ID: "111ER" File: "EXS03220036.will"
 Peak Name: "25-Diamino-4-nitrobenzene" Mass(es): "186.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:22:53 AM
 Modified: No



Sample Name: "XIBLK05" Sample ID: "111ER" File: "EXS03220036.will"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1/51.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

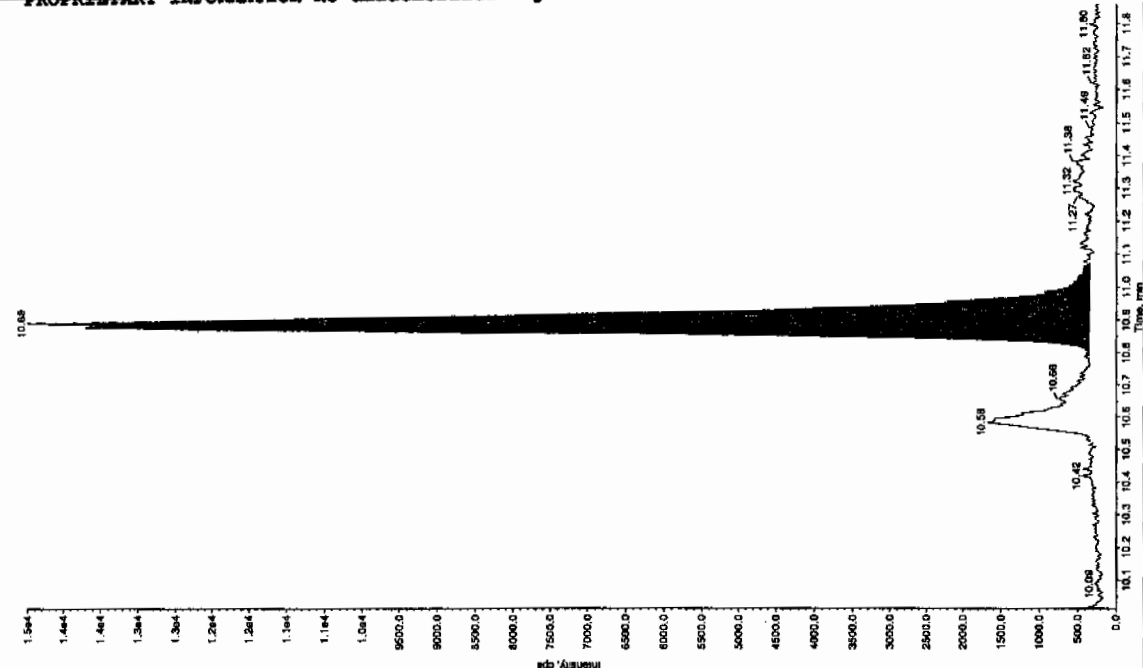
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:22:53 AM
 Modified: No



3L SOP GL-QA-E-056, Method 8321A-Modified LCMSMS#4

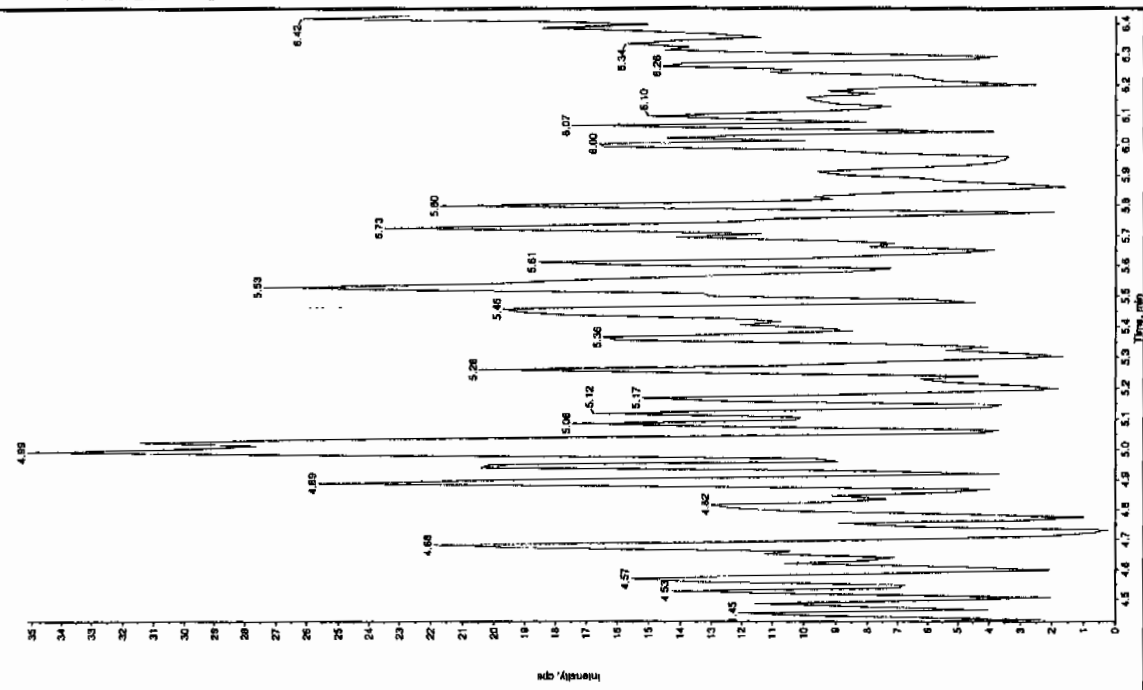
Sample Name: "XBLK05" Sample ID: "JILER" File: "EXS03220036.wif"
 Peak Name: "tri(n-butyl)phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 6.43 ng/mL
 Calculated Conc: 6.43 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:22:53 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.67e+004 counts
 Height: 14161.768 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XBLK05" Sample ID: "JILER" File: "EXS03220036.wif"
 Peak Name: "2,4-Diamino-6-nitrofluorene" Mass(es): "166.048.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:22:53 AM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 23-MAR-10 01:10

GEL Data File: EXS03220039.wiff

Instrument ID: LCMSMS

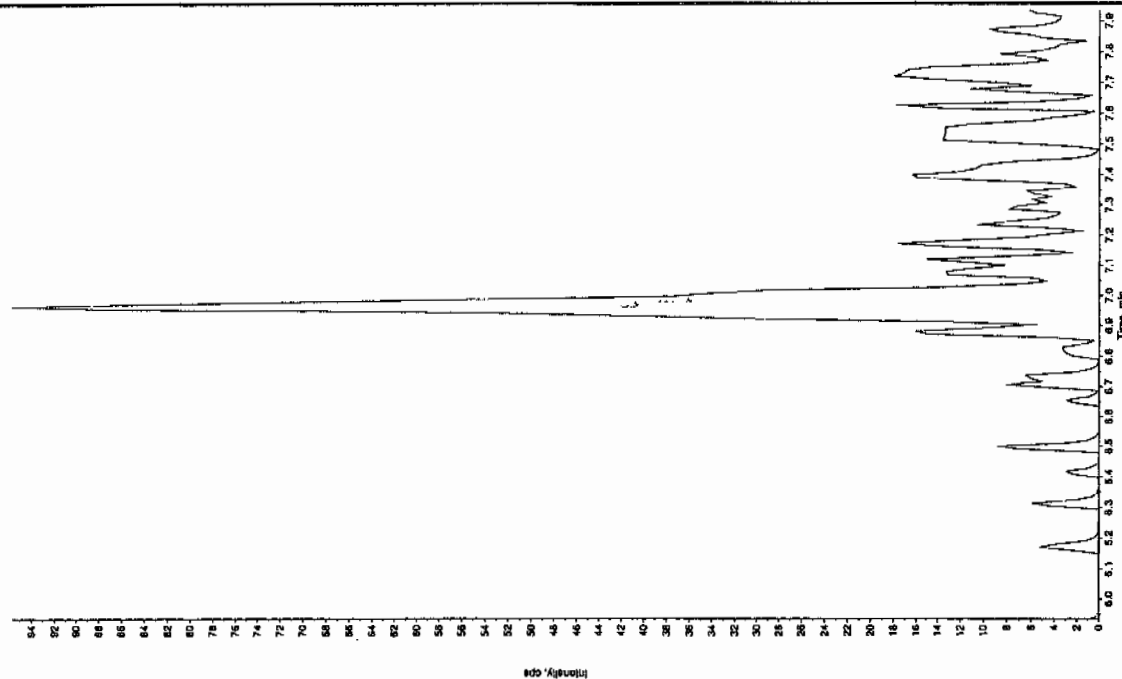
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	4.63
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Can 3/27/10

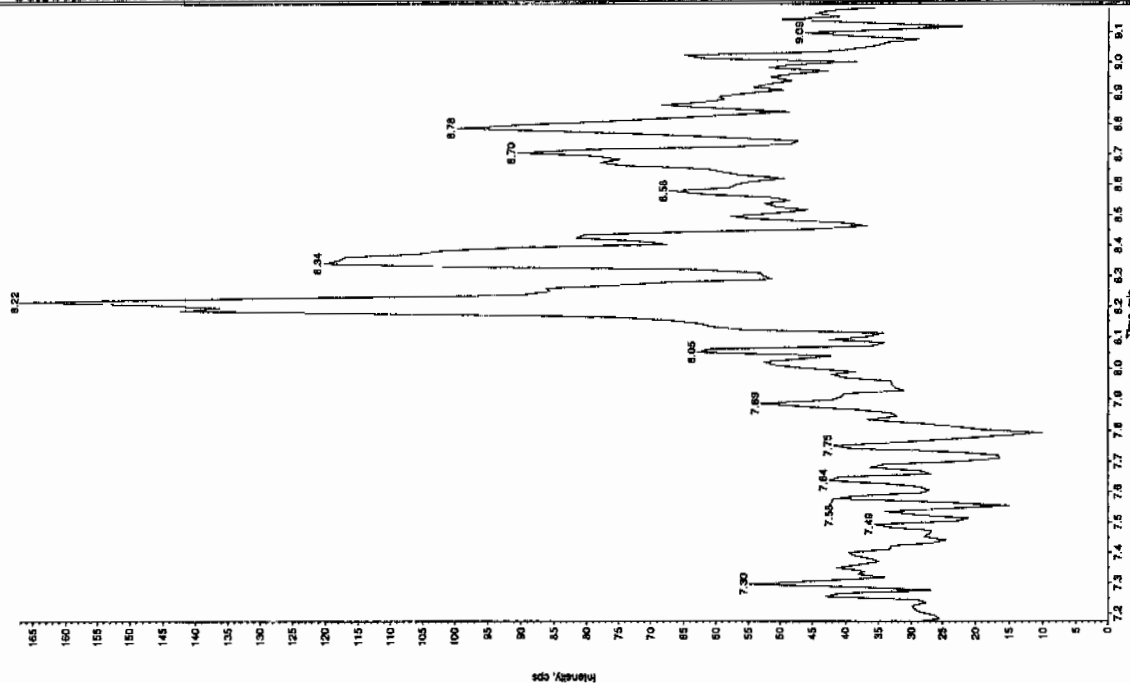
Sample Name: "XIBUK06" Sample ID: "11111" File: "EXS03220039.wit"
 Peak Name: "TATB" Mass(es): "257.2204 8 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: No



Sample Name: "XIBUK06" Sample ID: "11111" File: "EXS03220039.wit"
 Peak Name: "35-Dinitroarsine" Mass(es): "182.0460 8 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: No

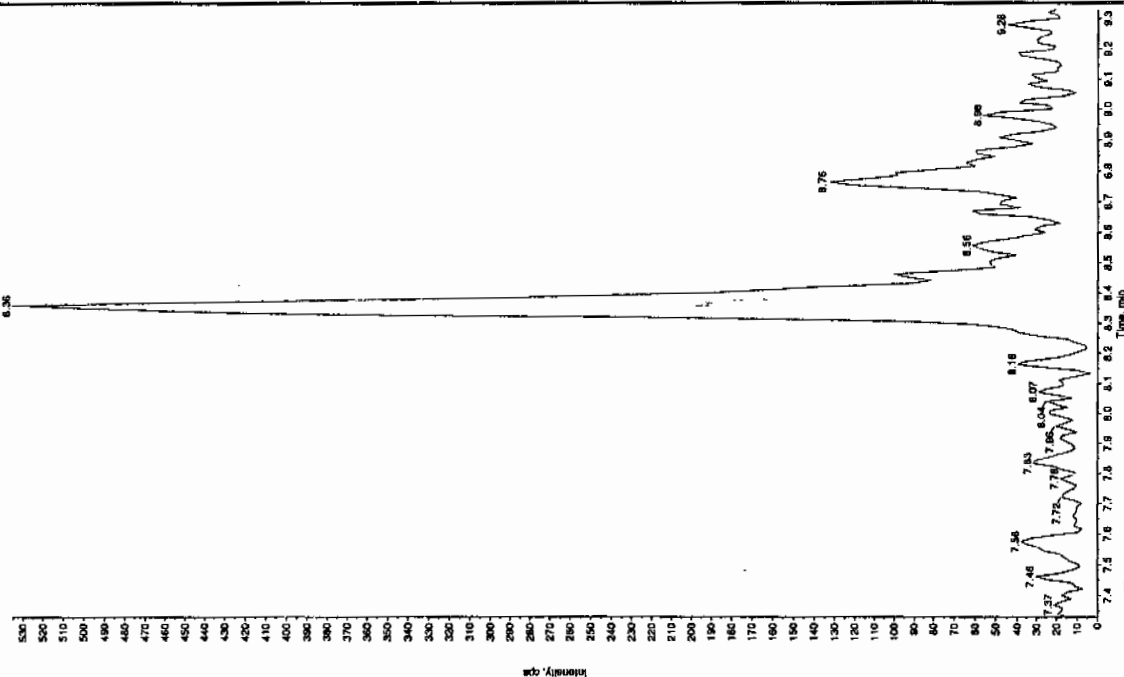


Can 03/29/10

3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

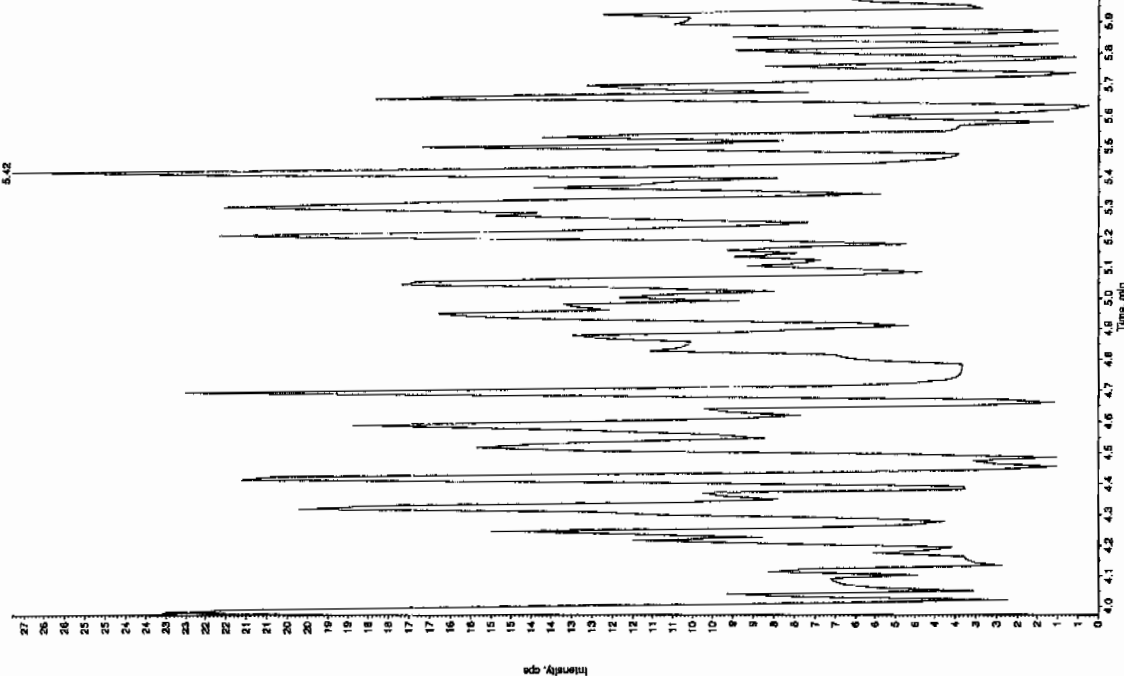
Sample Name: "XIBLK06" Sample ID: "11LER" File: "EX03220039.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: NO



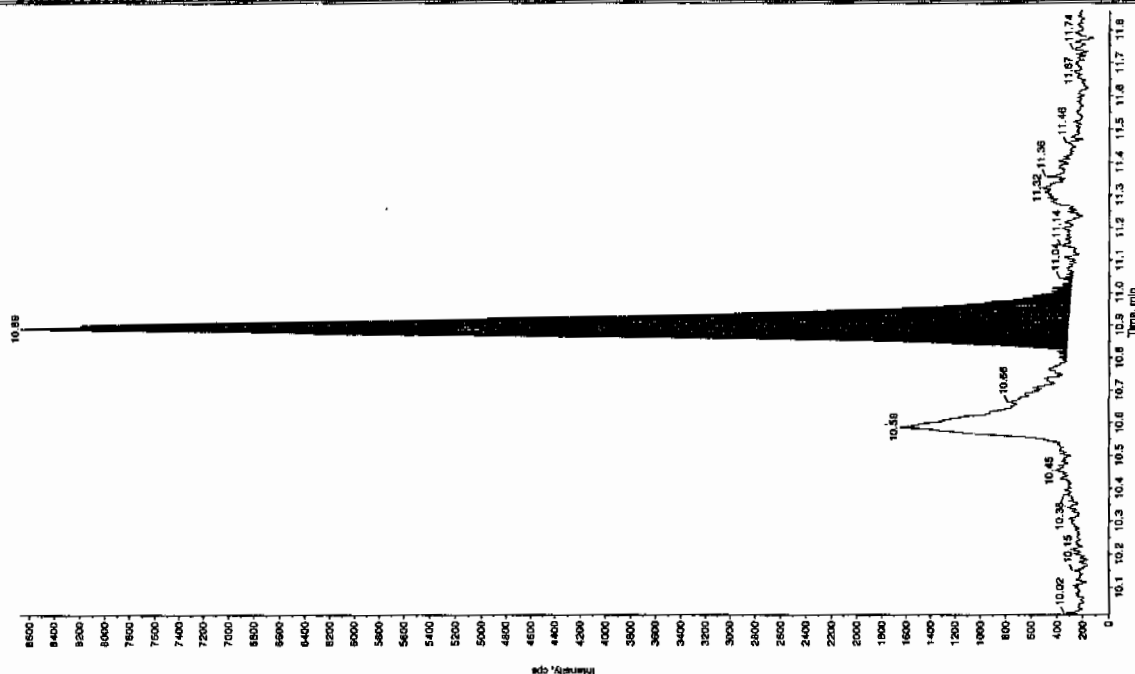
Sample Name: "XIBLK06" Sample ID: "11LER" File: "EX03220039.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "186.0/165.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: NO



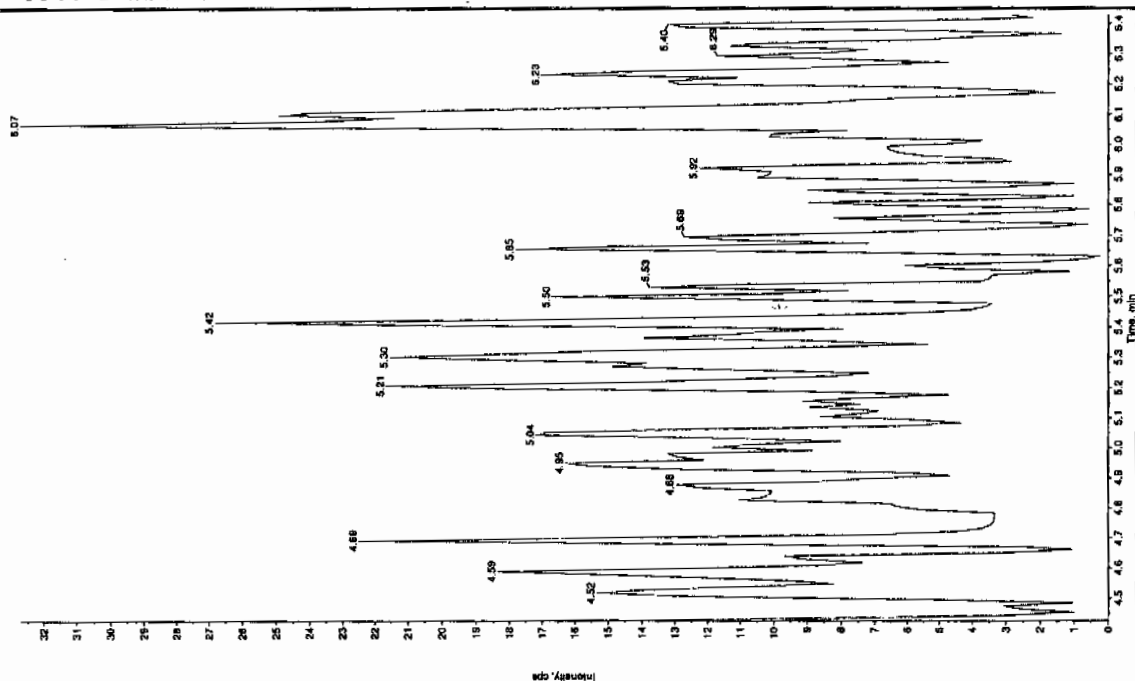
Sample Name: 'XIELK05' Sample ID: '11LER' File: 'EXS0220039.wif' File: 'EXS0220039.wif'
 Peak Name: '24-Diamino-6-methylthio-1,2,3,4-tetrahydropyrimidin-5(1H)-one' Mass(es): '166.0460 amu'
 Comment: 'LCMS-EXP-B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 4.63 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:10:01 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 3.35e04 counts
 Height: 8360.013 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: 'XIELK05' Sample ID: '11LER' File: 'EXS0220039.wif' File: 'EXS0220039.wif'
 Peak Name: '24-Diamino-6-methylthio-1,2,3,4-tetrahydropyrimidin-5(1H)-one' Mass(es): '166.0460 amu'
 Comment: 'LCMS-EXP-B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: No



LC SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 23-MAR-10 03:47

GEL Data File: EXS03220049.wiff

Instrument ID: LCMSMS

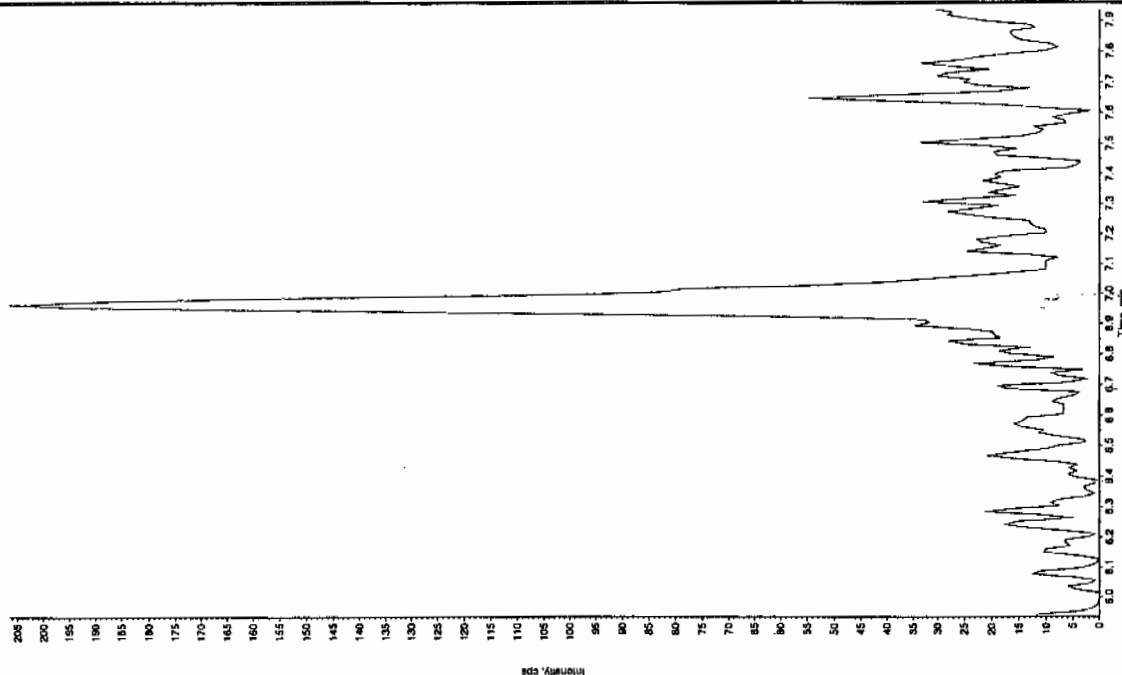
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	7.15
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

kan 3/27/10

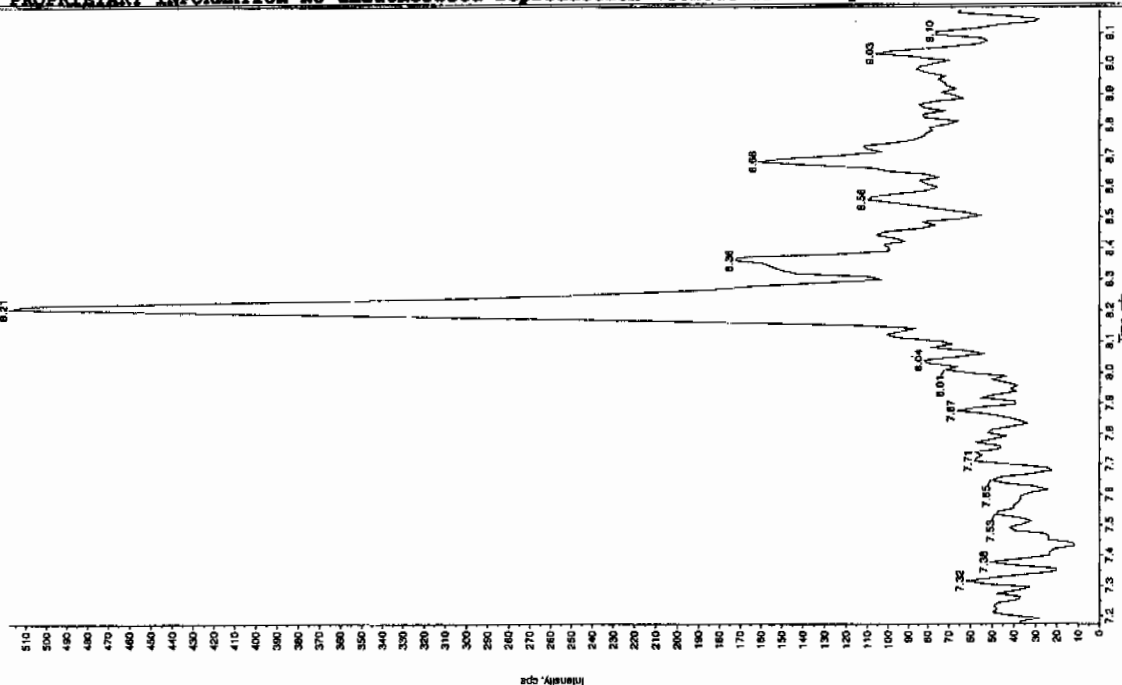
Sample Name: "XBLK07" Sample ID: "111ER" File: "EXS03220049.will"
 Peak Name: "TATB" Mass(es): "257.22049 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/27/2010
 Acq. Time: 3:47:13 AM
 Modified: No



Sample Name: "XBLK07" Sample ID: "111ER" File: "EXS03220049.will"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_B" Annotation: ""

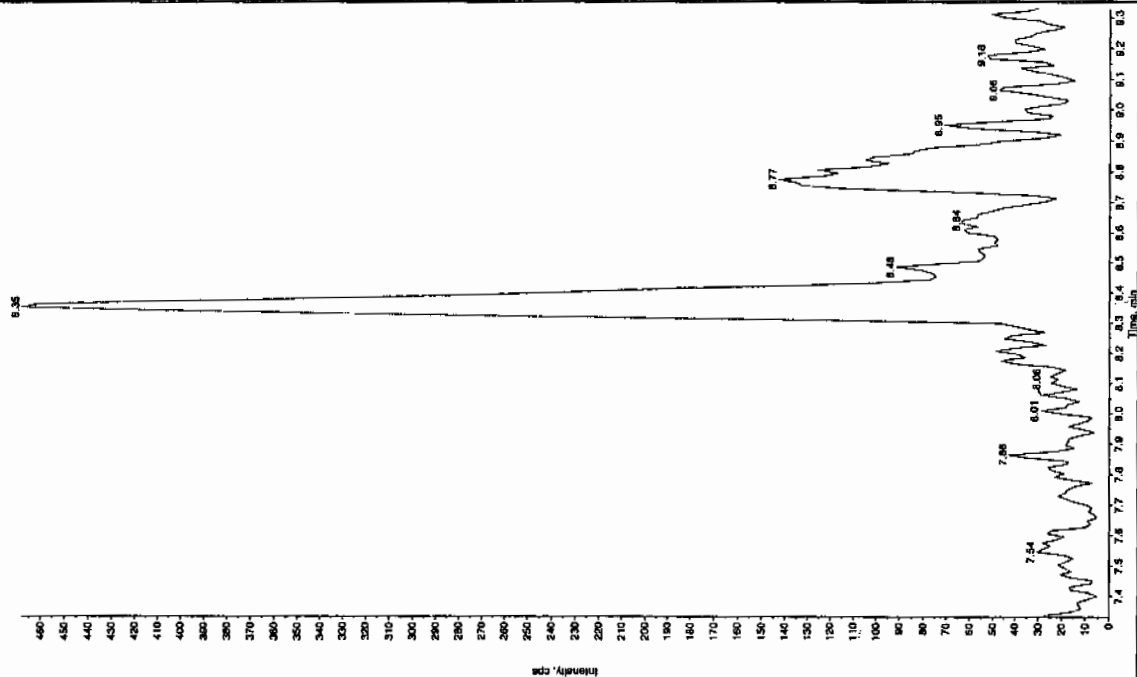
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Acq. Time: 3:47:13 AM
 Modified: No



kan 3/29/10

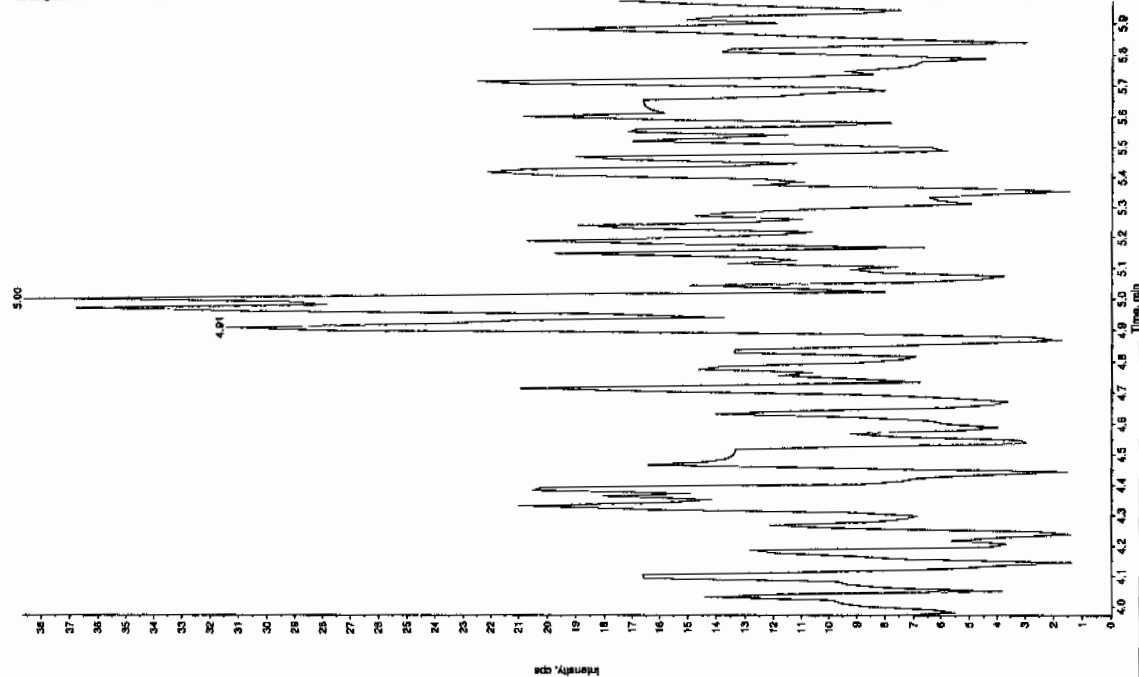
Sample Name: "XBLK07" Sample ID: "111ER" File: "EXS0220049.wiff"
 Peak Name: "26-Olefinic-4-ene" Mass(es): "182.1/151.3 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:47:13 AM
 Modified: No



Sample Name: "XBLK07" Sample ID: "111ER" File: "EXS0220049.wiff"
 Peak Name: "26-Olefinic-4-ene" Mass(es): "165.0/145.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

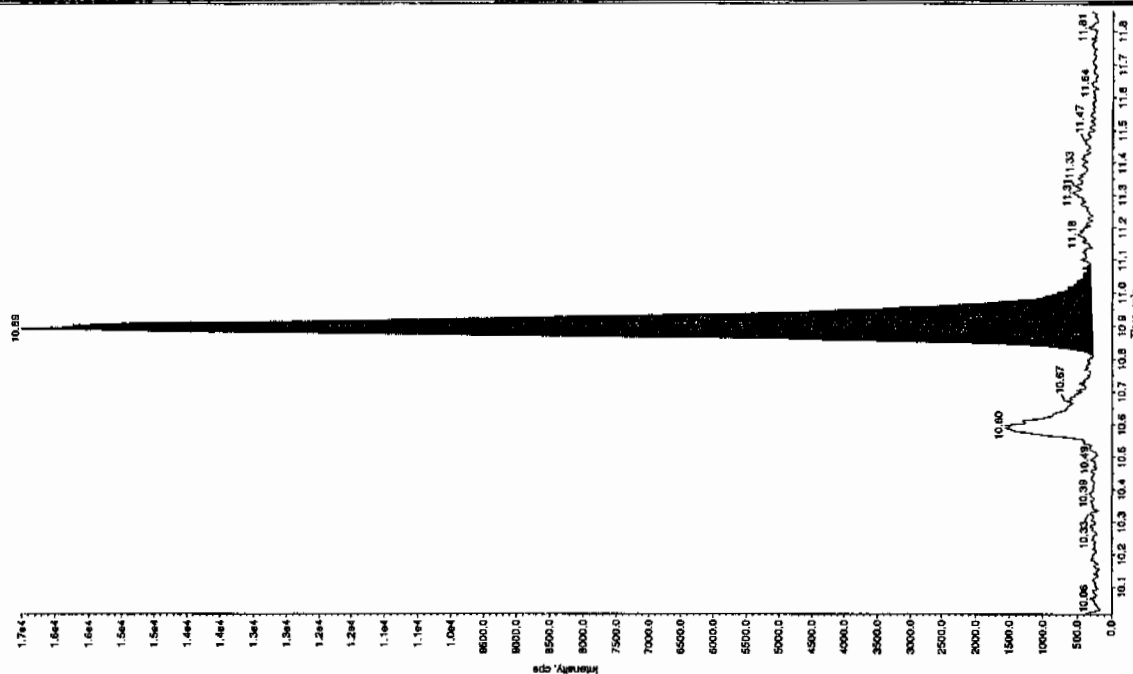
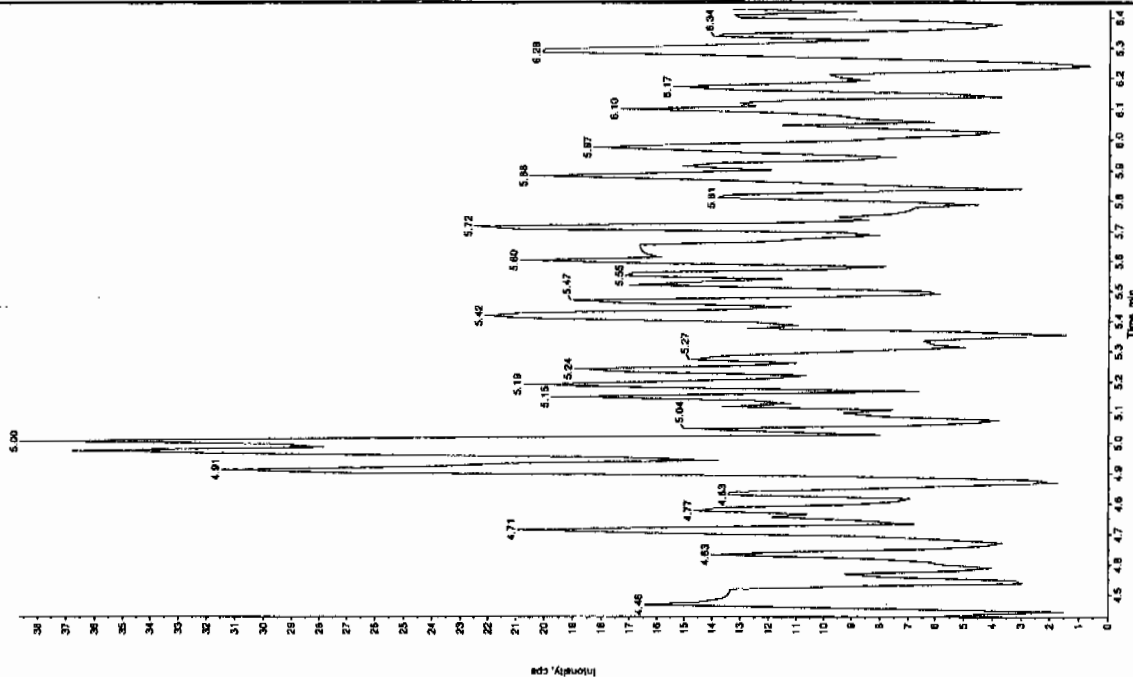
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:47:13 AM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLK07" Sample ID: "11LER" File: "EXS0220049.wif"
 Peak Name: "24-Chloro-6-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LONSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 7.15 ng/mL
 Date: 3/23/2010
 Time: 3:47:13 AM
 Acq. Time: 3:47:13 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention time: 10.9 min
 Area: 6.51e+009 counts
 Height: 18226.908 cps
 Start Time: 10.8 min
 End Time: 11.1 min



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1972

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 23-MAR-10 06:24

GEL Data File: EXS03220059.wiff

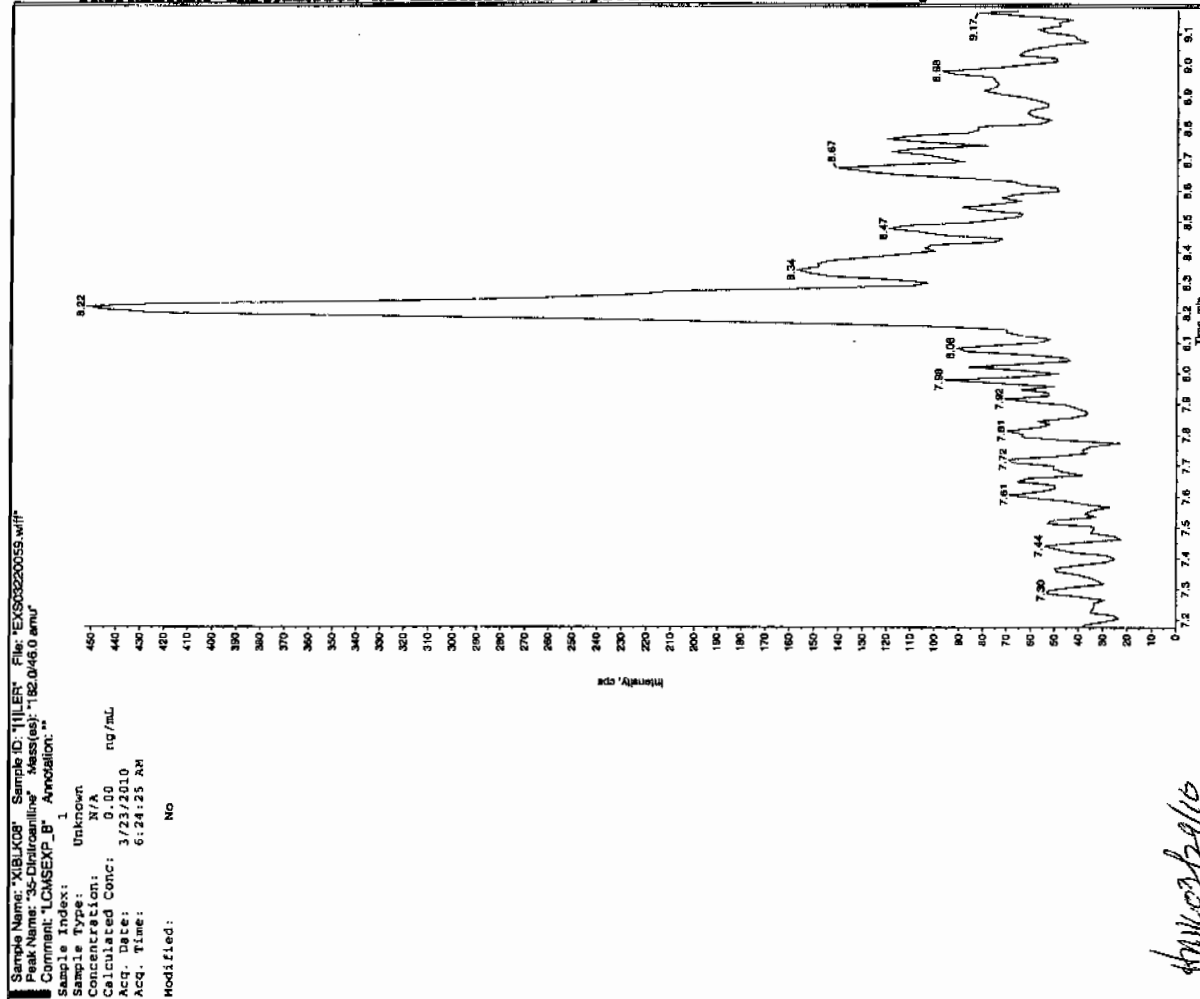
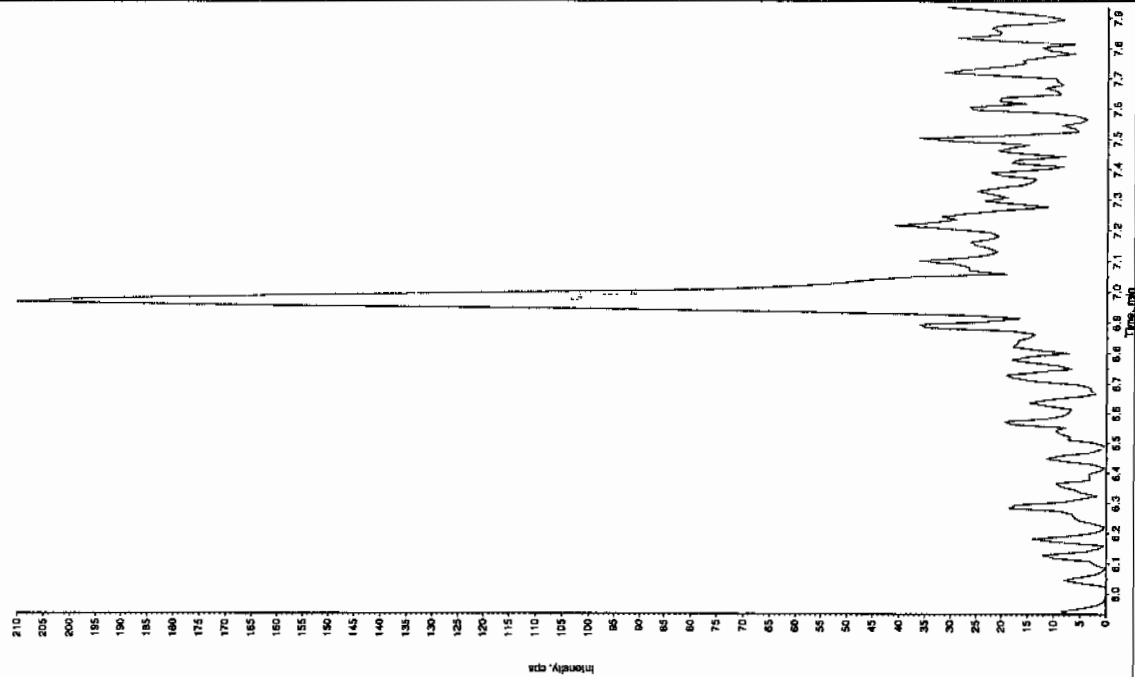
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.69
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/27/10

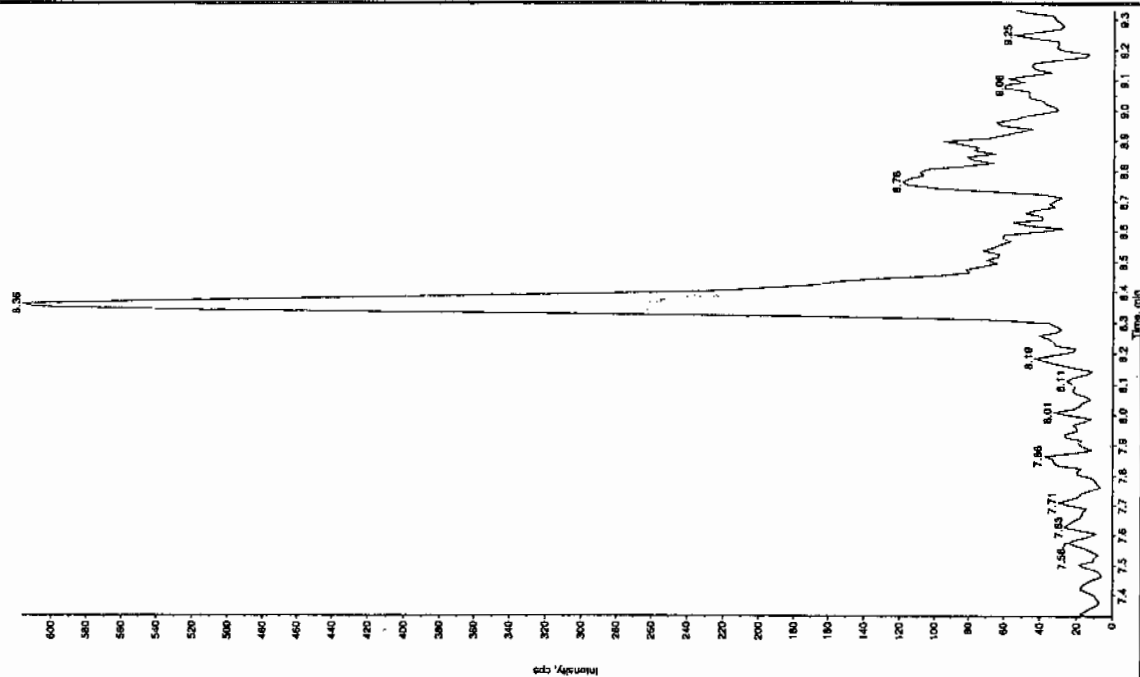
Sample Name: "XIBLX08" Sample ID: "11111" File: "EXS03220059.wif"
 Peak Name: "YATB" Mass(es): "257.2704.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 6:24:25 AM
 Acq. Time: 6:24:25 AM
 Modified: No



Handwritten signature/initials

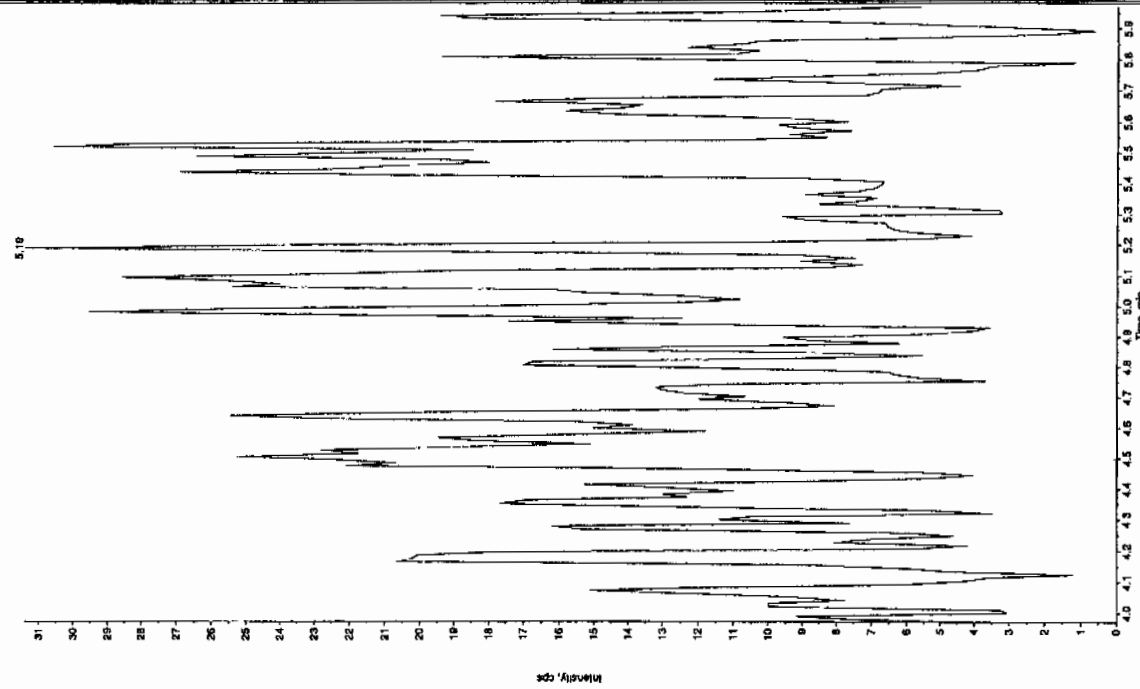
Sample Name: "X16LK06" Sample ID: "11LER" File: "EX03220069.wiff"
 Peak Name: "34-Dihydroquinone" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Time: 5:24:25 AM
 Modified: No



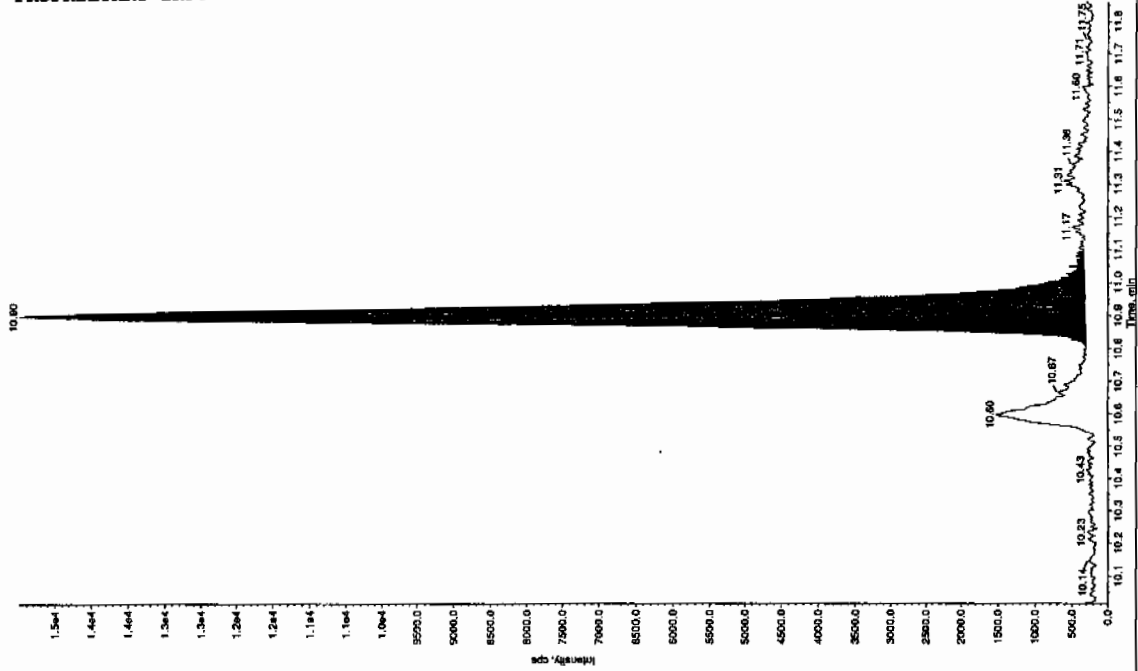
Sample Name: "X16LK06" Sample ID: "11LER" File: "EX03220069.wiff"
 Peak Name: "26-Diamino-4-phenylacetate" Mass(es): "166.0/146.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Time: 5:24:25 AM
 Modified: No



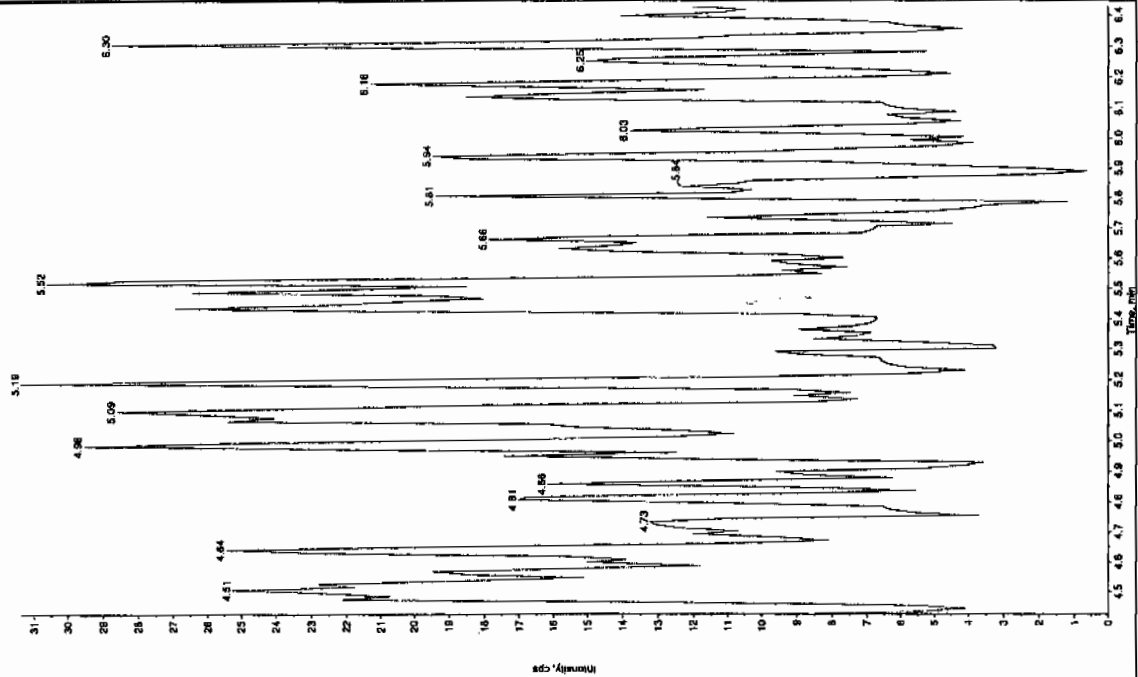
Sample Name: "XBLK08" Sample ID: "11LER" File: "EXS03220059.wif"
 Peak Name: "bis(o-cresyl) phosphine" Mass(es): "389.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 6:24:25 AM
 Acq. Time: 6:24:25 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: 10.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.01e+004 counts
 Height: 14690.022 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XBLK08" Sample ID: "11LER" File: "EXS03220059.wif"
 Peak Name: "24-Diamino-5-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 6:24:25 AM
 Acq. Time: 6:24:25 AM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

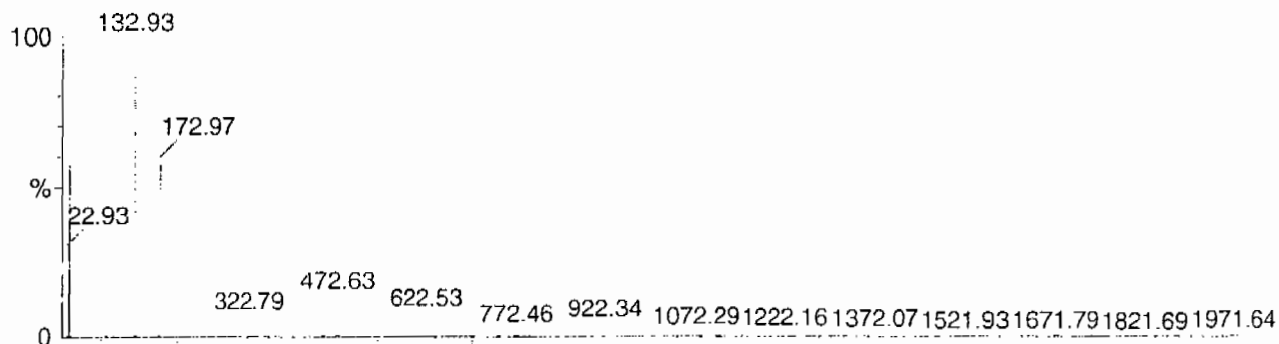
Calibration Report - MS1 Static

Page 1 of 1

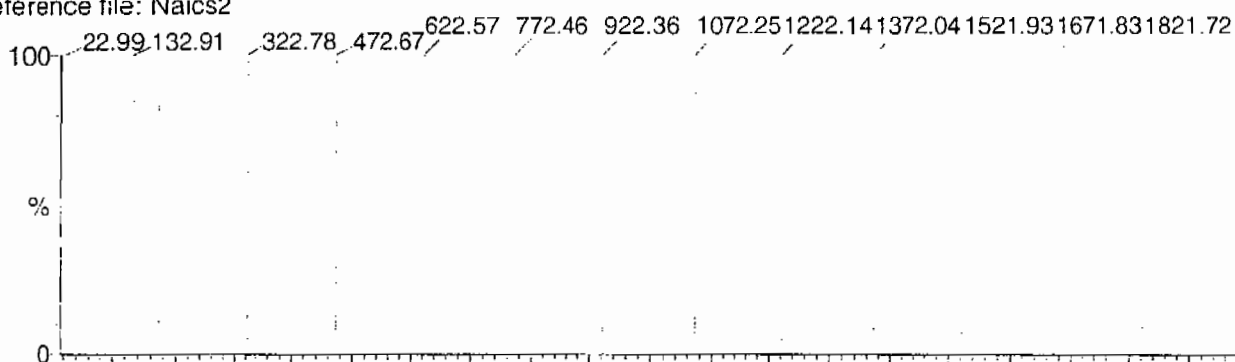
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

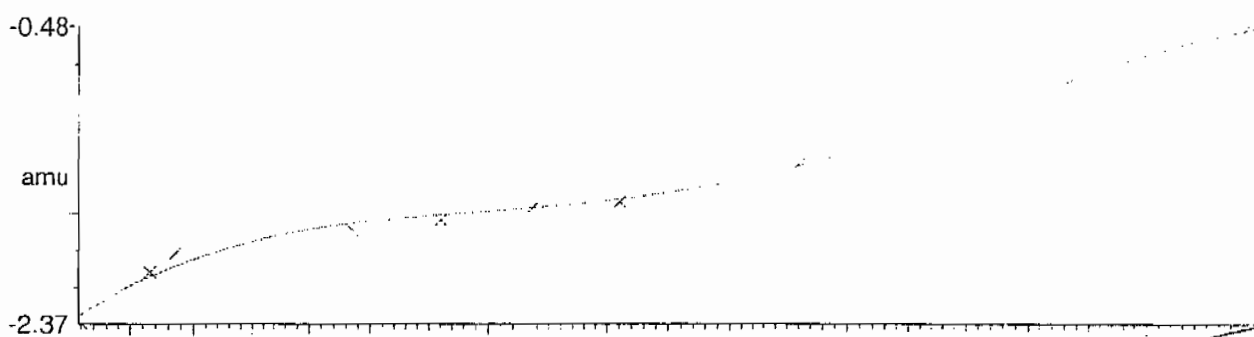
15 matches of 15 tested references



Reference file: Naics2

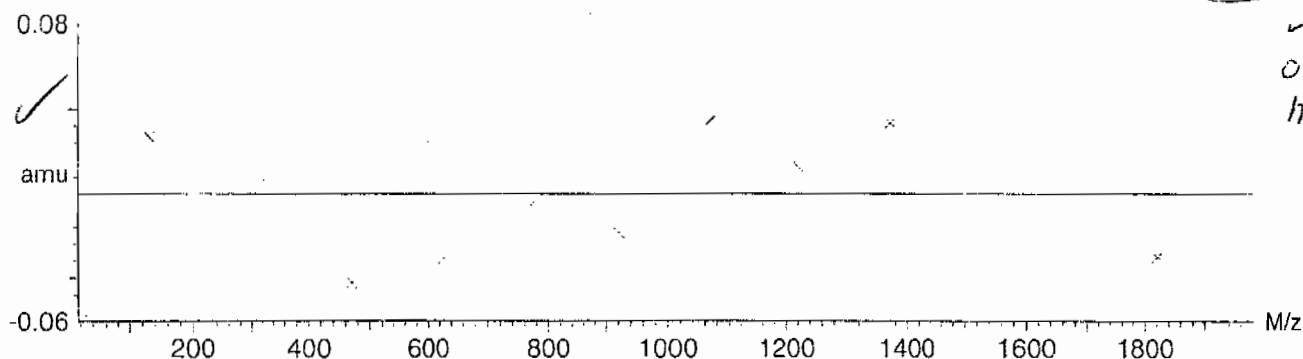


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



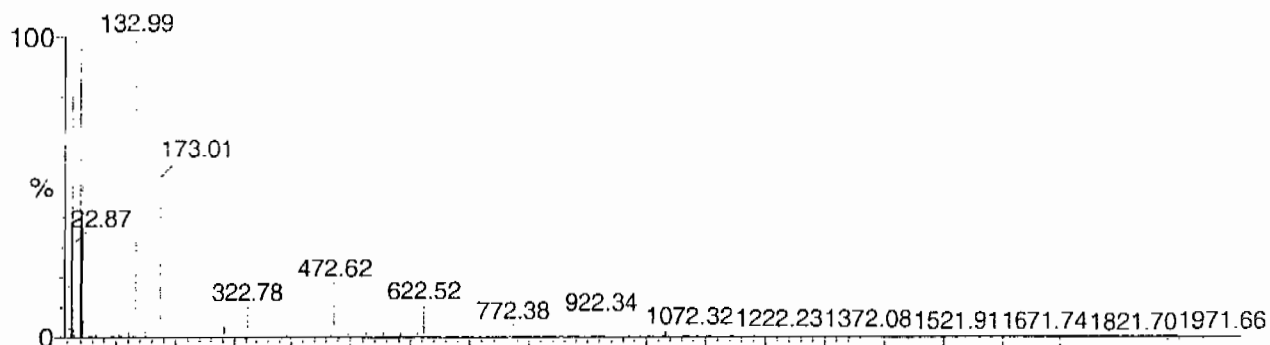
Calibration Report - MS1 Scanning

Page 1 of 1

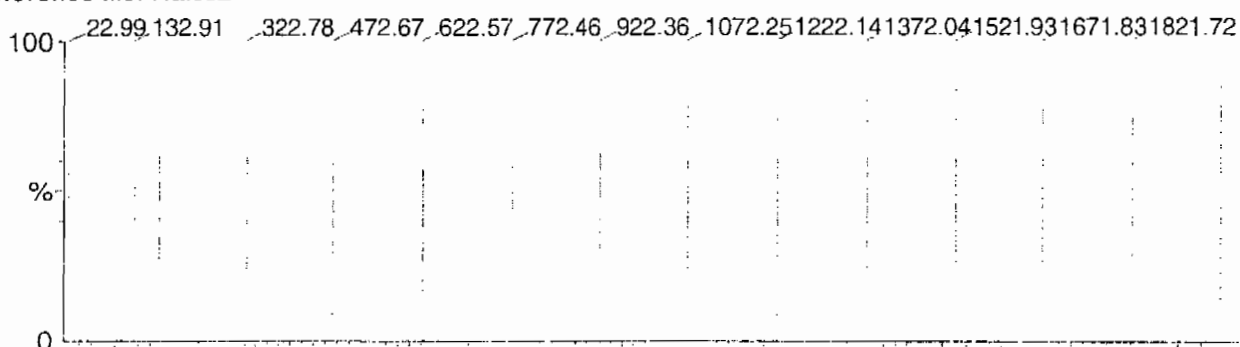
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

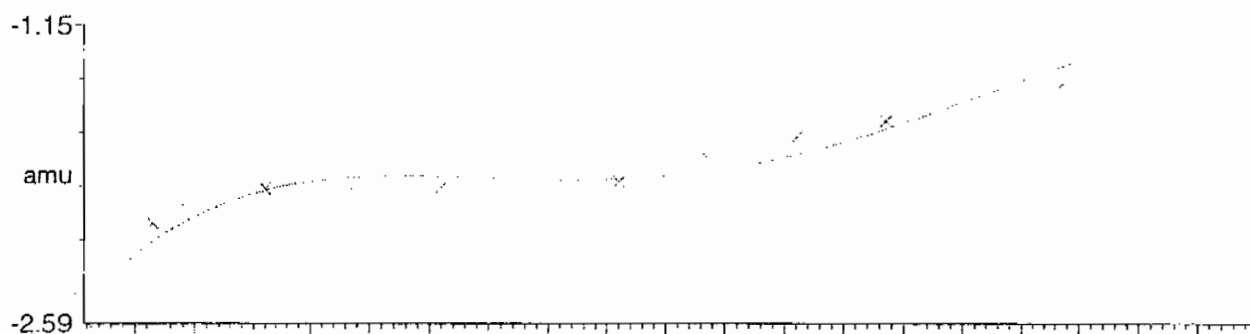
15 matches of 15 tested references



Reference file: Naics2

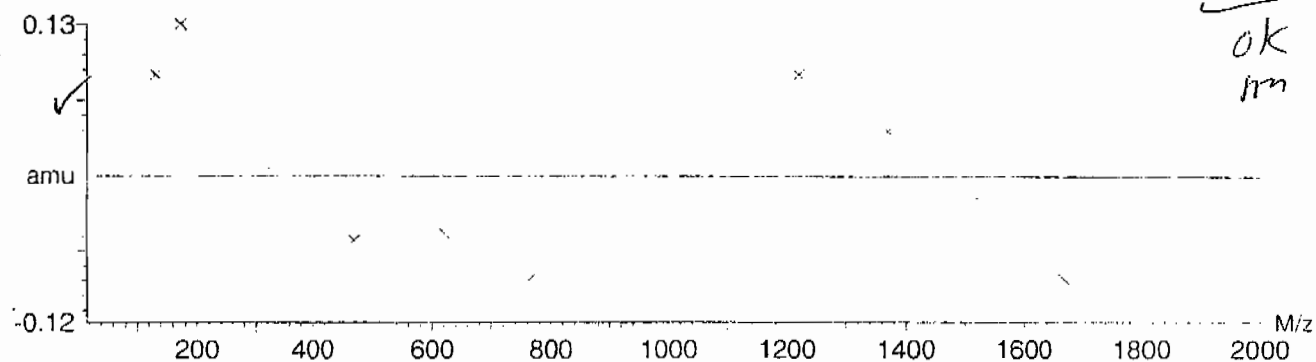


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



ok
hm

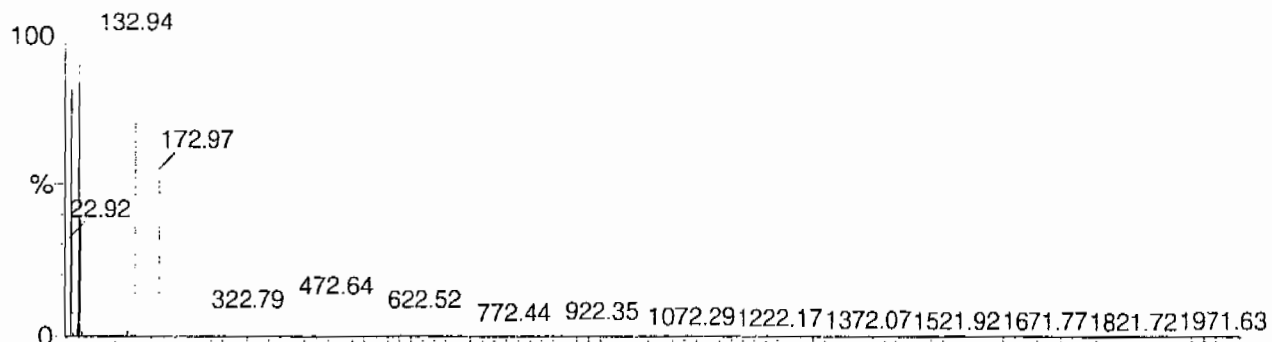
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

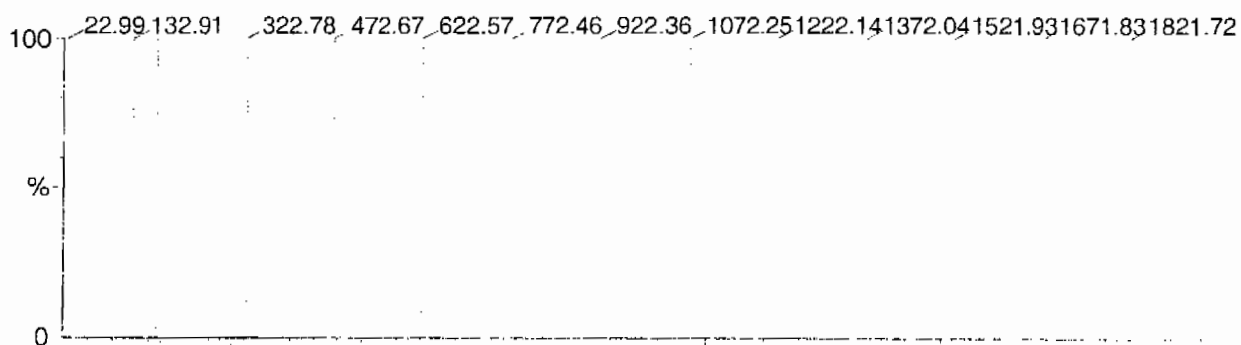
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

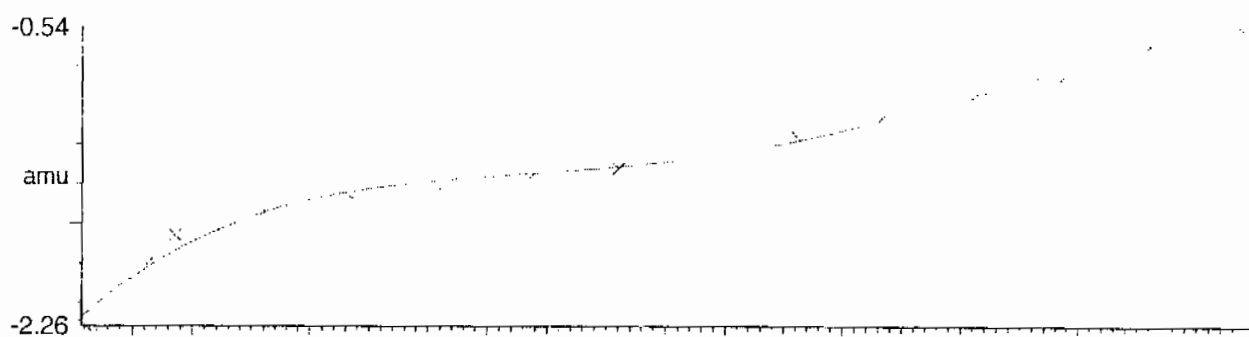
15 matches of 15 tested references



Reference file: Naics2

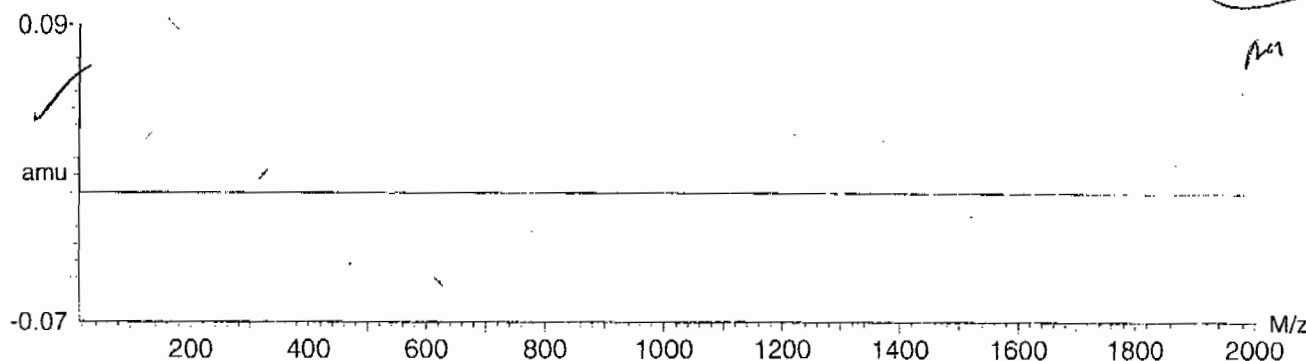


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$



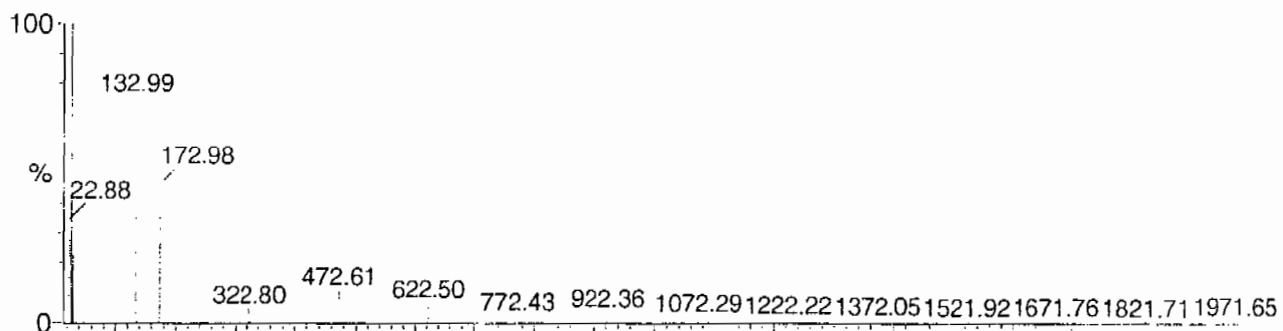
Calibration Report - MS2 Static

Page 1 of 1

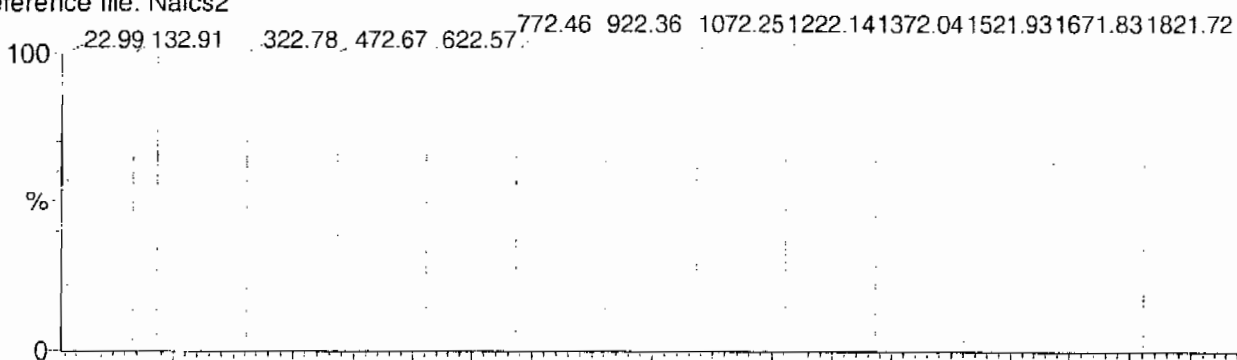
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

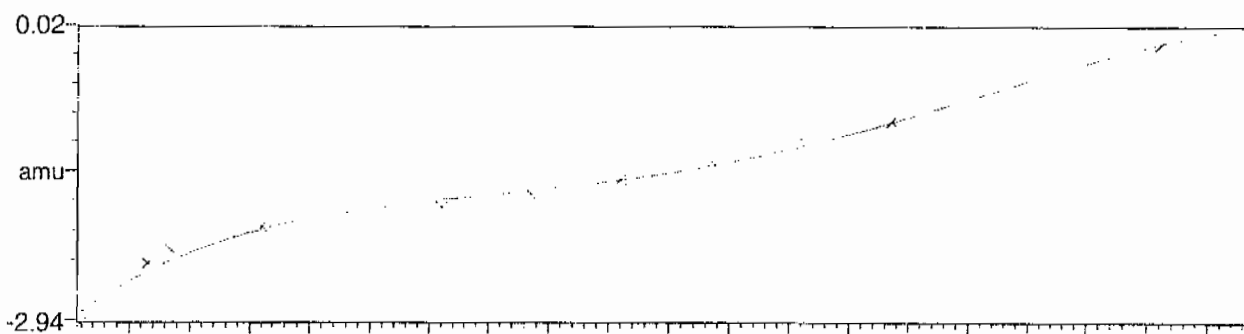
15 matches of 15 tested references



Reference file: Naics2

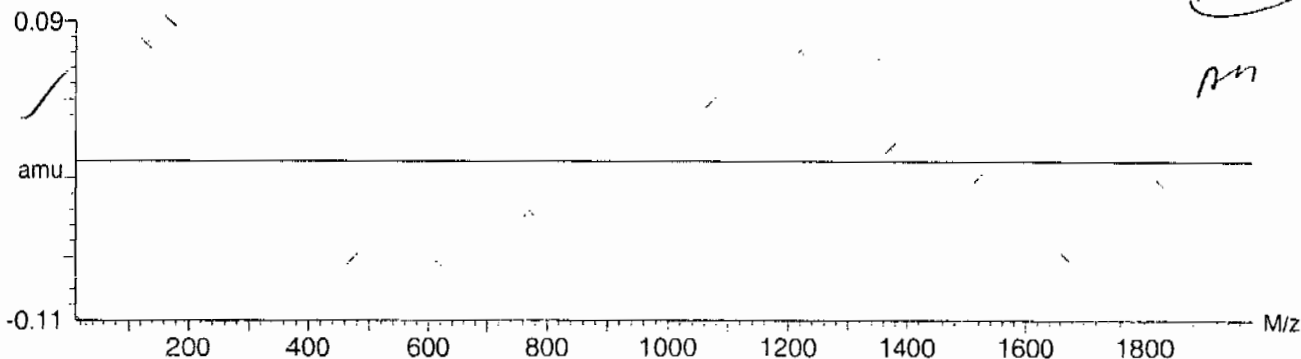


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



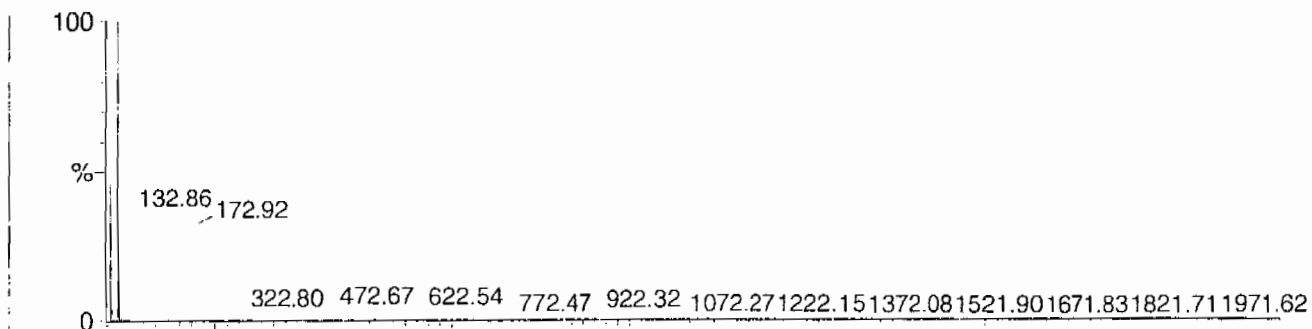
Calibration Report - MS2 Scanning

Page 1 of 1

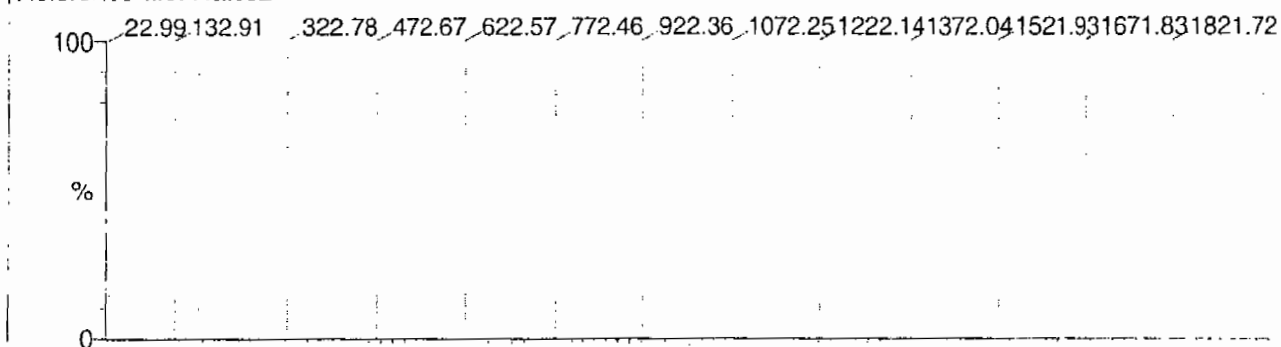
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

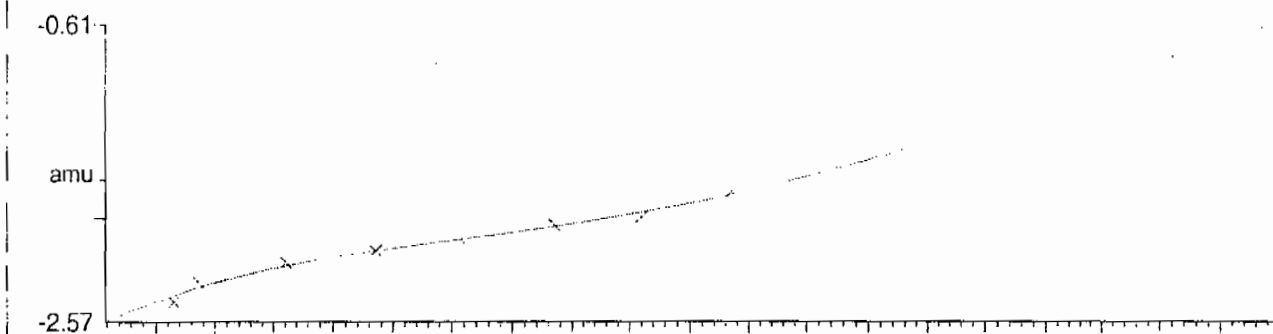
14 matches of 15 tested references



Reference file: Naics2

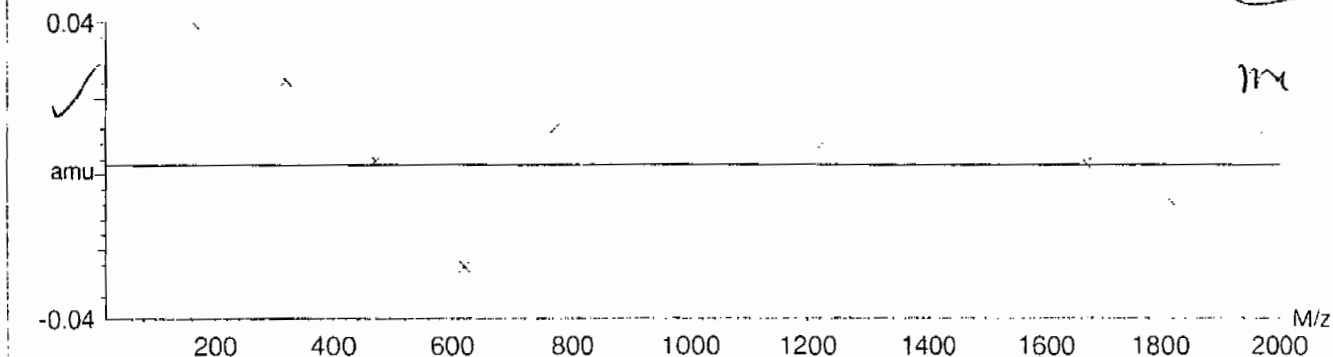


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$



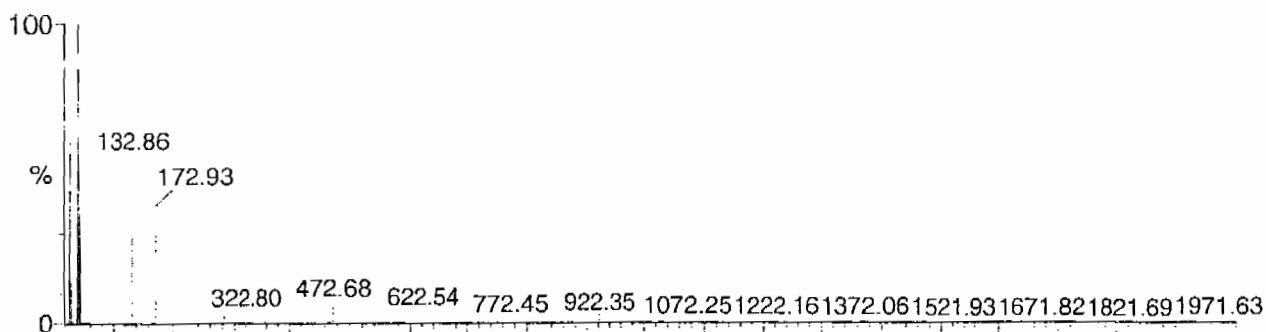
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

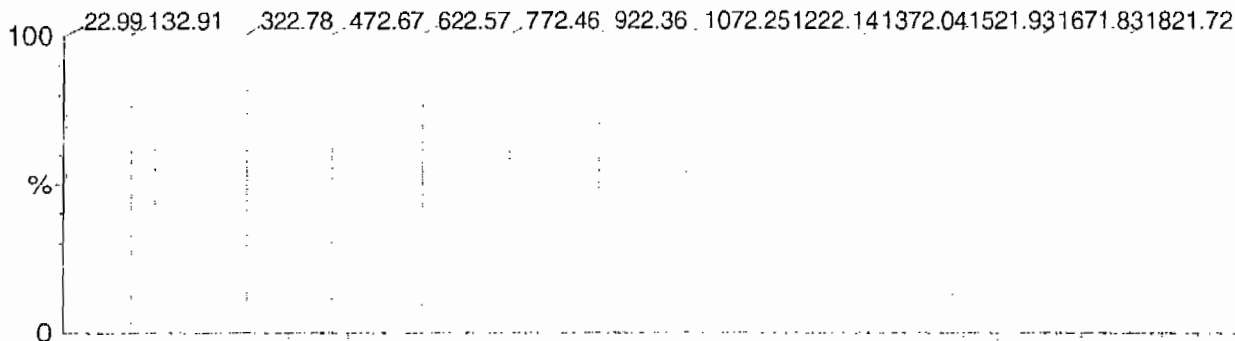
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

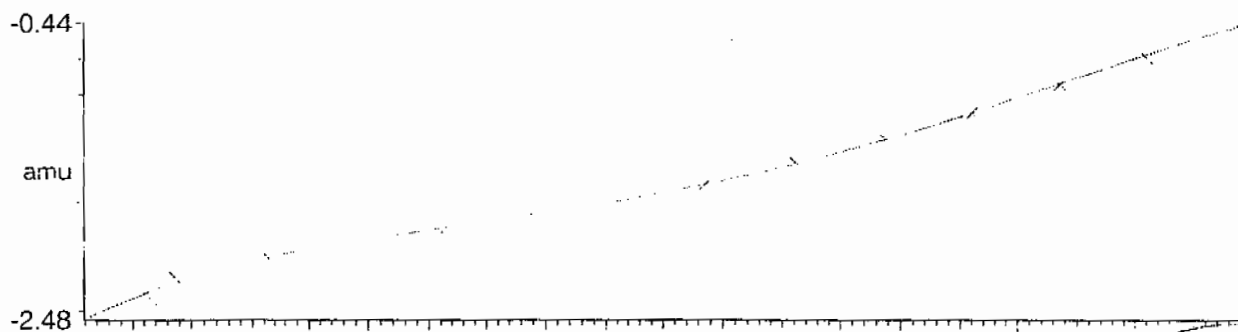
14 matches of 15 tested references



Reference file: Naics2

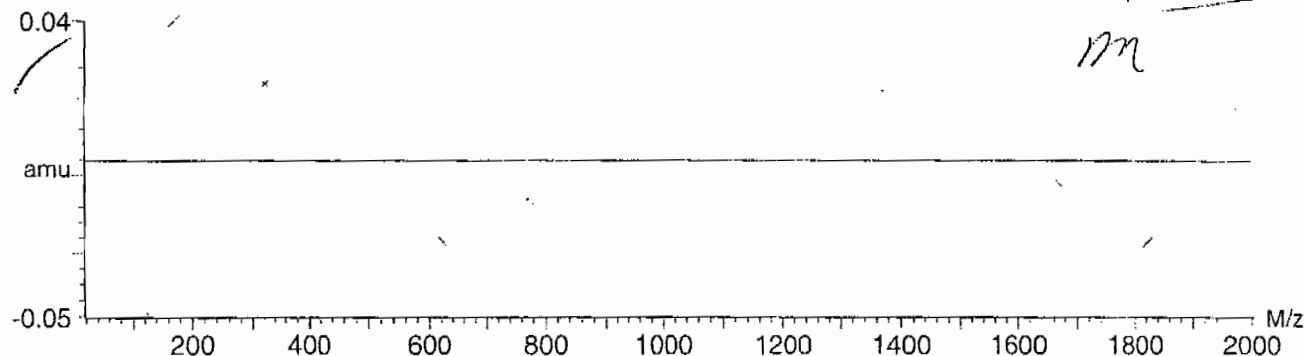


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$

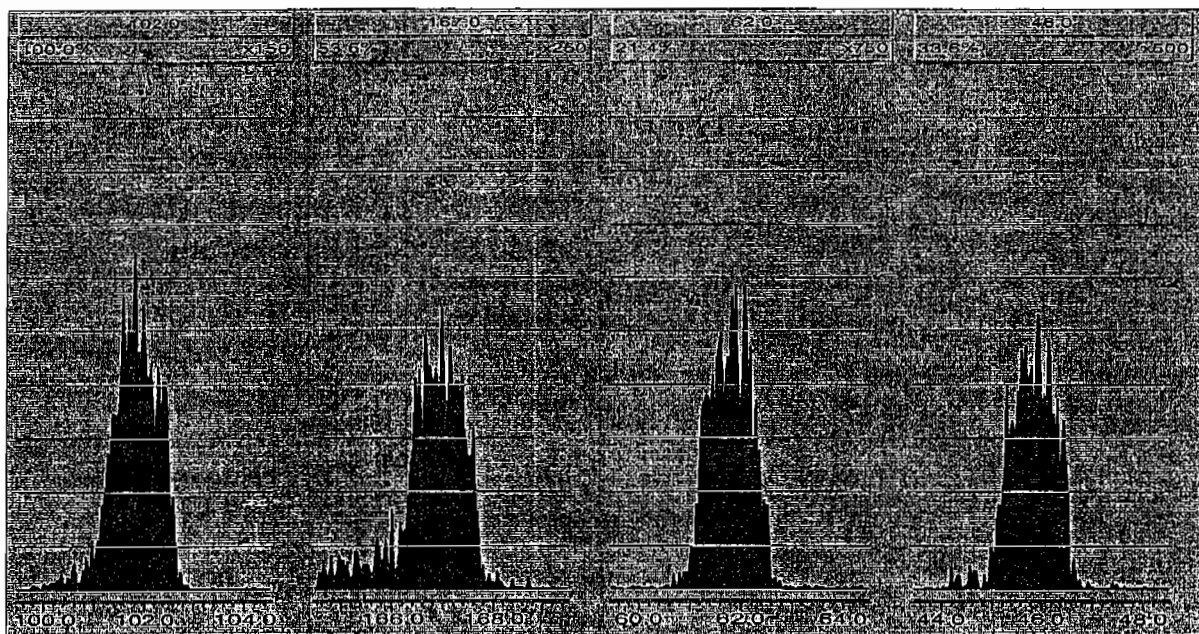


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQUDB\explosives04.IPR

Printed : Mon Apr 12 14:40:37 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

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 957195	13-apr-10 11:50	EXP0412042a	6054.85	11.867	35432.1	17.05
LCS for batch 957195	13-apr-10 12:19	EXP0412043a	6140.62	11.868	38268	17.051
RE15-10-8259	13-apr-10 12:49	EXP0412044a	6024.84	11.867	36165.8	17.05
RE15-10-8259(247767001MS)	13-apr-10 13:18	EXP0412045a	6380.56	11.868	38394.1	17.05
RE15-10-8259(247767001MSD)	13-apr-10 13:48	EXP0412046a	6700.95	11.867	39301	17.05
RE15-10-8261	13-apr-10 14:17	EXP0412047a	5880.9	11.867	35675.8	17.05
RE15-10-8257	13-apr-10 14:47	EXP0412048a	6108.31	11.867	37262.1	17.05
RE15-10-8260	13-apr-10 16:45	EXP0412052a	6375.62	11.867	36019.3	17.05
RE15-10-8258	13-apr-10 17:14	EXP0412053a	6617.92	11.868	39018.4	17.05
RE15-10-8263	13-apr-10 17:44	EXP0412054a	6259.23	11.868	40026.9	17.05
RE15-10-8255	13-apr-10 18:13	EXP0412055a	6272.95	11.841	37791.5	17.05
RE15-10-8256	13-apr-10 18:43	EXP0412056a	6874.7	11.868	43250	17.05
RE15-10-8262	13-apr-10 19:12	EXP0412057a	6336.64	11.868	36082	17.051
RE15-10-8265	13-apr-10 19:42	EXP0412058a	6165.79	11.867	36052.8	17.05
RE15-10-8269	13-apr-10 20:11	EXP0412059a	6180.71	11.867	36704.4	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: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767001

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412044a

Date Analyzed: 13-APR-10 12:49

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: Wed Apr 14 09:18:04 2010, Page 11 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412044a

Date: 13-Apr-2010

Time: 12:49:06

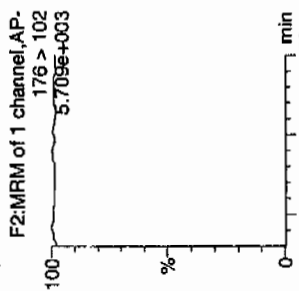
ID: 247767001

Vial: 2:5,C

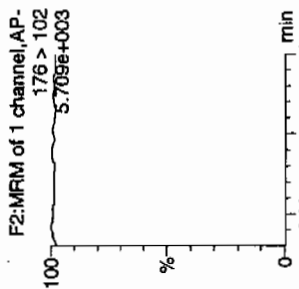
1.577
9/14/10

957196 / 21
SOLAR

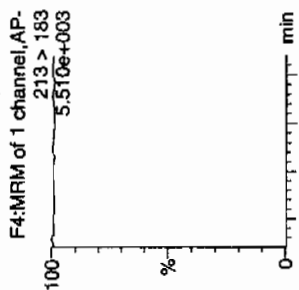
HMx



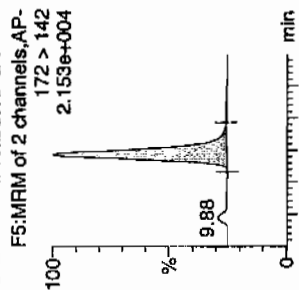
RDX



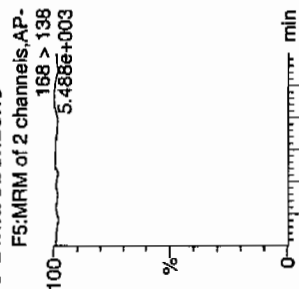
135-Trinitrobenzene



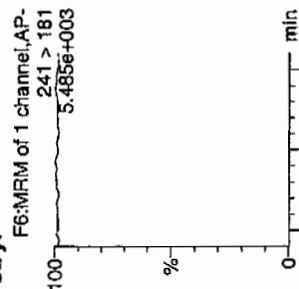
13-Dinitrobenzene-d4



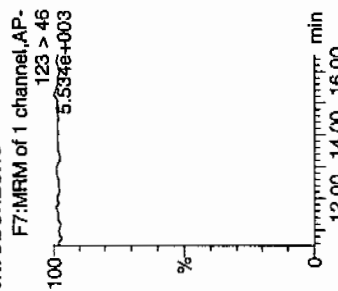
13-Dinitrobenzene



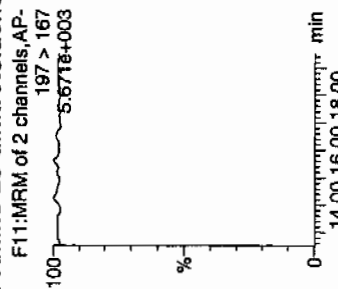
Tetryl



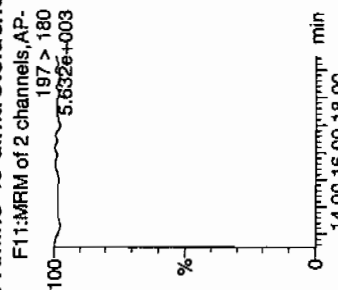
Nitrobenzene



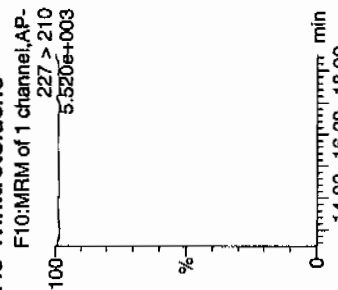
4-Amino-26-dinitrotoluene



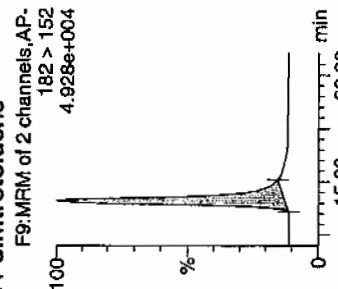
2-Amino-46-dinitrotoluene



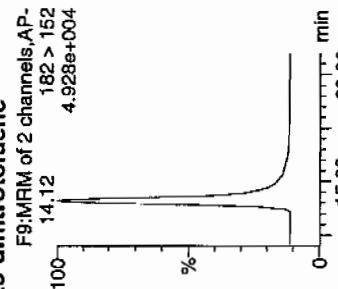
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



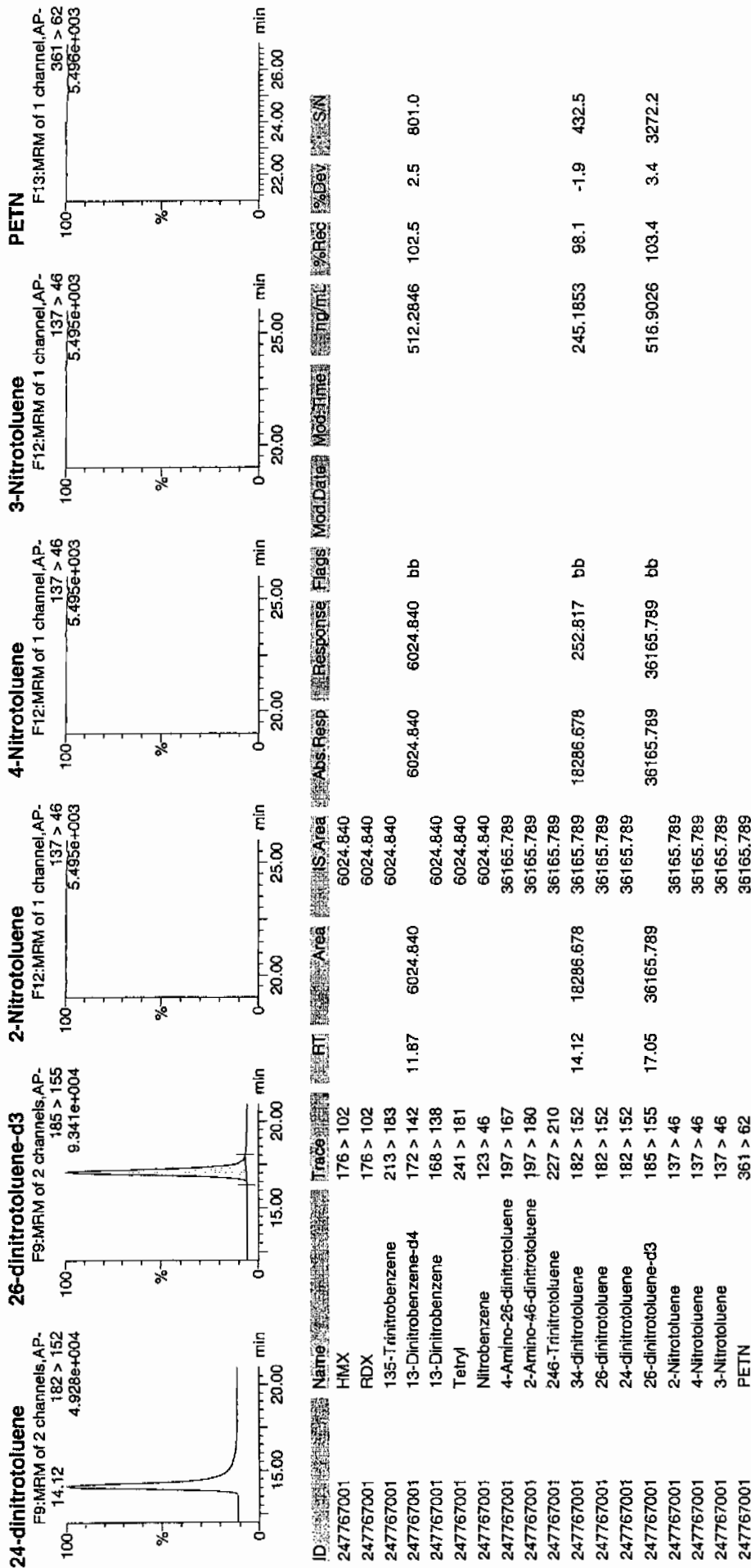
9/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 12 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767001

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220042.wiff

Date Analyzed: 23-MAR-10 01:57

Units: ug/kg

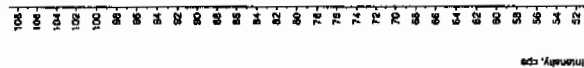
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

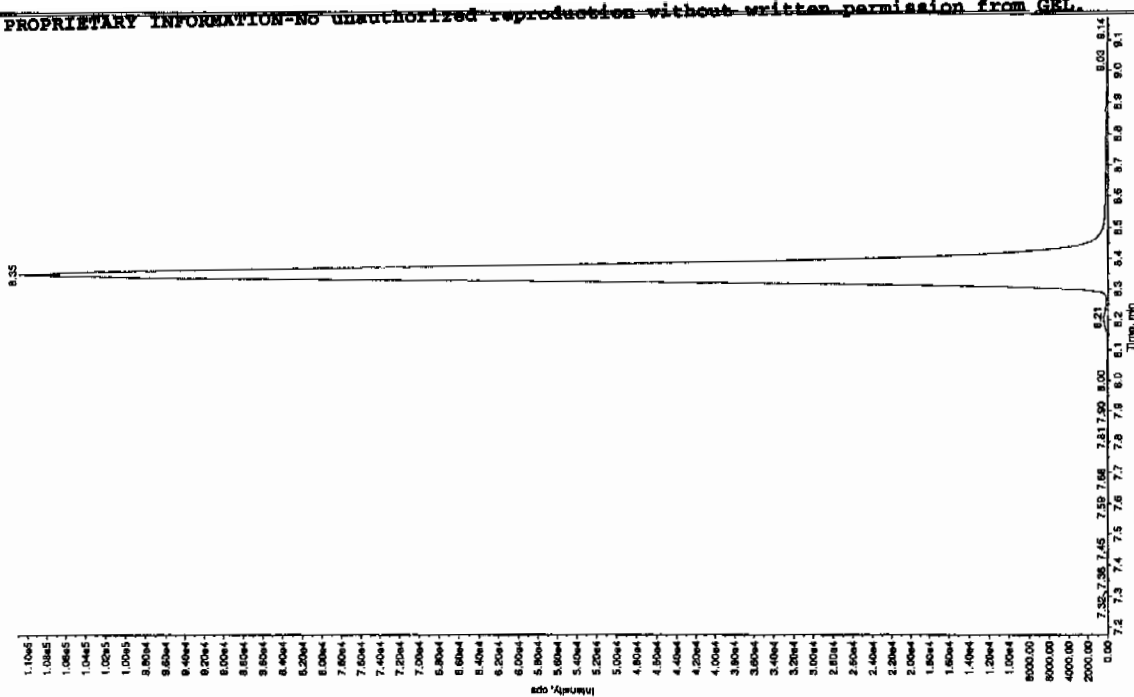
Sample Name: "247767001" Sample ID: "957196121ER" File: "EXS0322042.wif"
Peak Name: "1ATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:57:15 AM
Modified: No



Sample Name: "247767001" Sample ID: "957196121ER" File: "EXS0322042.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "162.0/16.0 amu"
Comment: "LCX83212S" Annotation: ""

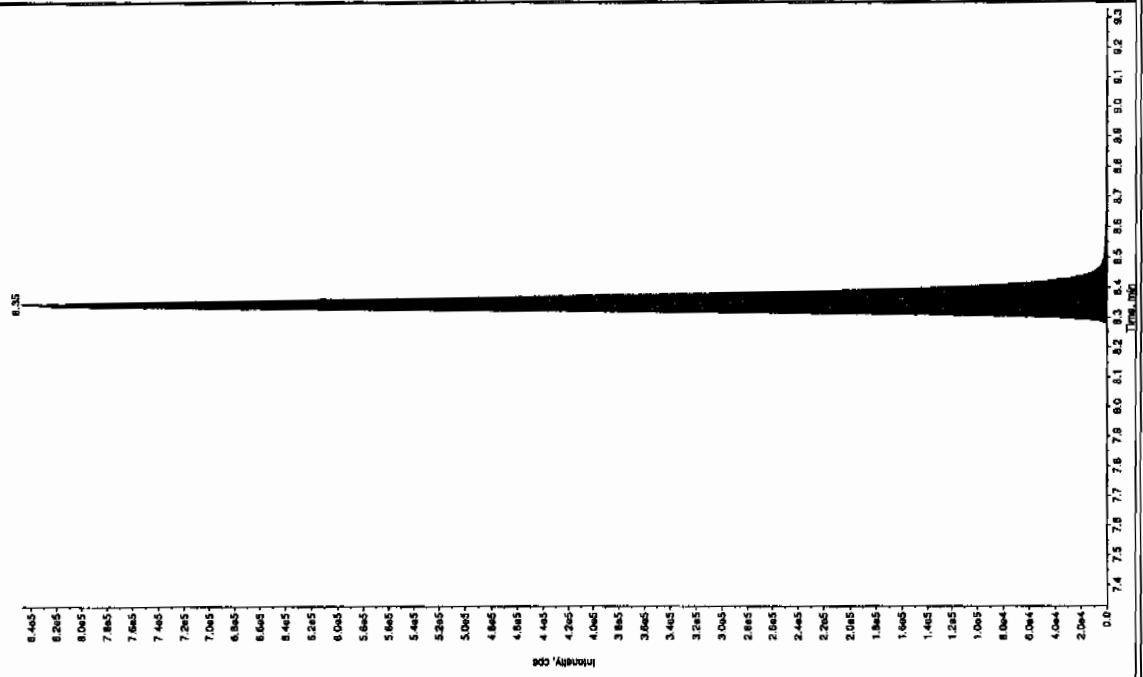
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:57:15 AM
Modified: No



4/16/03/29/10

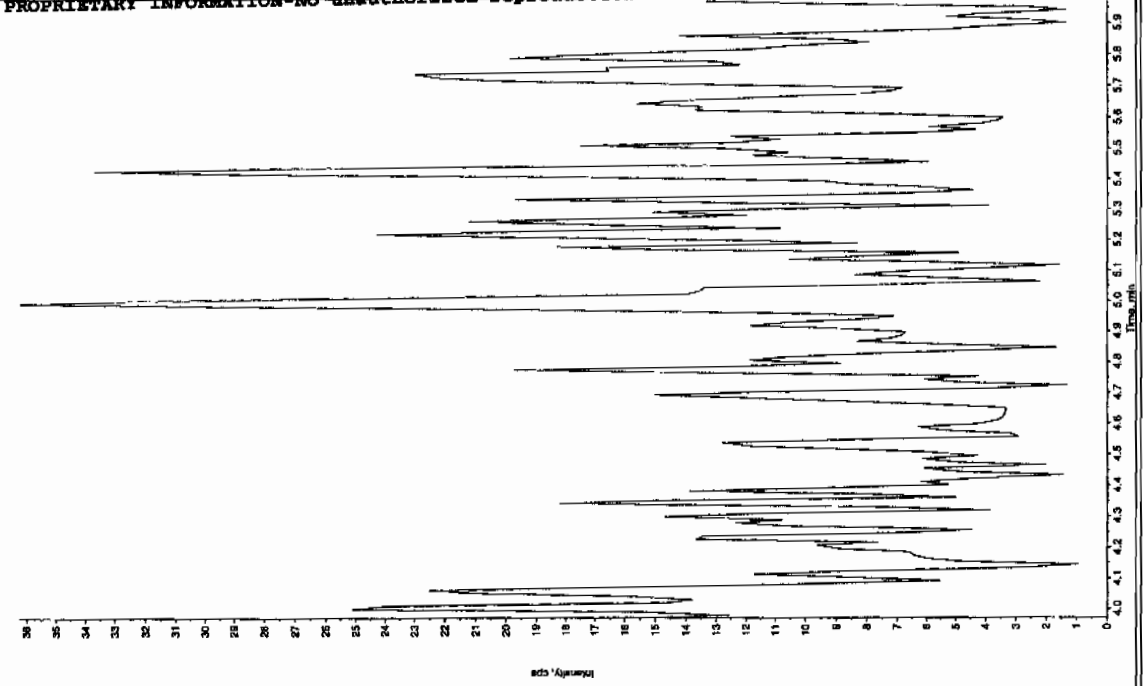
Sample Name: "247767001" Sample ID: "957196JLER" File: "EX50320042.wif"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 285. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:57:15 AM
Modified: No
oc. Algorithm: IntelliQuan - IOA
n. Peak Height: 1450.00 cps
n. Peak Width: 0.00 sec
coching Width: 3 points
window: 15.0 sec
relative RT: 8.33 min
t. Type: Valley
tention Time: 8.35 min
ea: 3.09e+006 counts
light: 847195.558 cps
art Time: 8.26 min
s Time: 8.68 min



Sample Name: "247767001" Sample ID: "957196JLER" File: "EX50320042.wif"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
Comment: "LCX832125" Annotation: ""

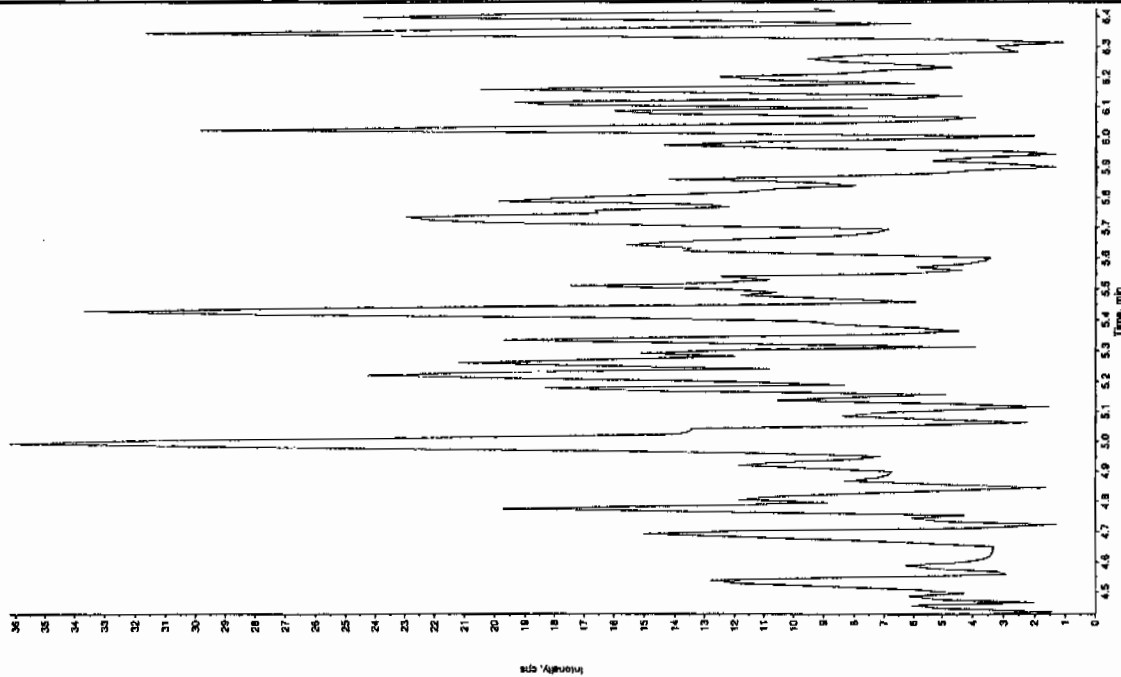
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:57:15 AM
Modified: No



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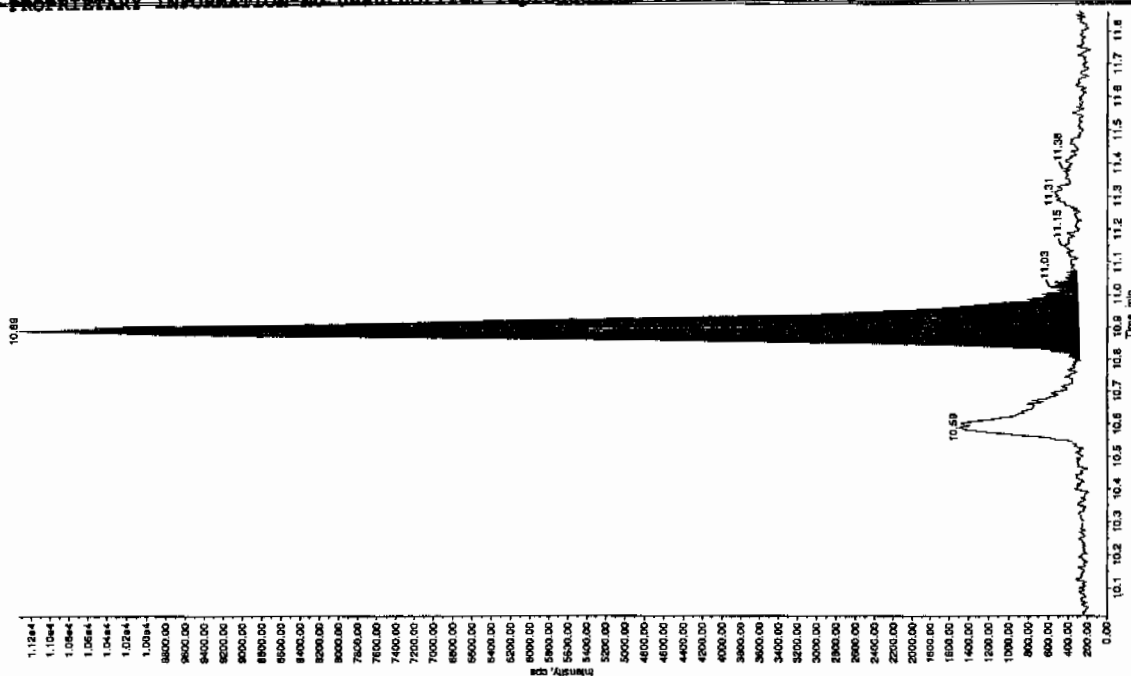
Sample Name: "247767001" Sample ID: "55719621LER" File: "EXS03220042.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "156.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 1:57:15 AM
 Acq. Time: 1:57:15 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.55e+004 counts
 Height: 11035.886 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "247767001" Sample ID: "55719621LER" File: "EXS03220042.wif"
 Peak Name: "tris(2-cyanoethyl) phosphite" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 5.56 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:57:15 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.55e+004 counts
 Height: 11035.886 cps
 Start Time: 10.8 min
 End Time: 11.1 min



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8261

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767002

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412047a

Date Analyzed: 13-APR-10 14:17

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\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412047a

Date: 13-Apr-2010

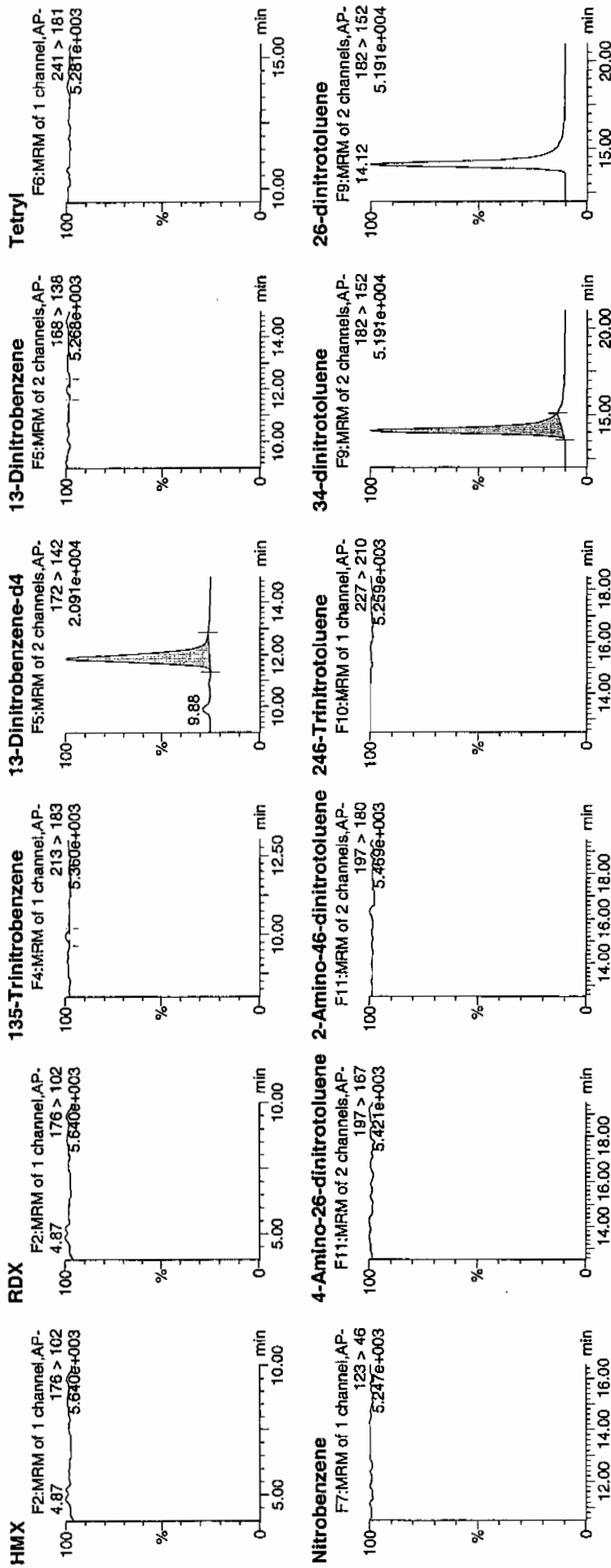
Time: 14:17:35

ID: 247767002

Vial: 2:5,F

4/14/10

1957196 / 8022 / 21



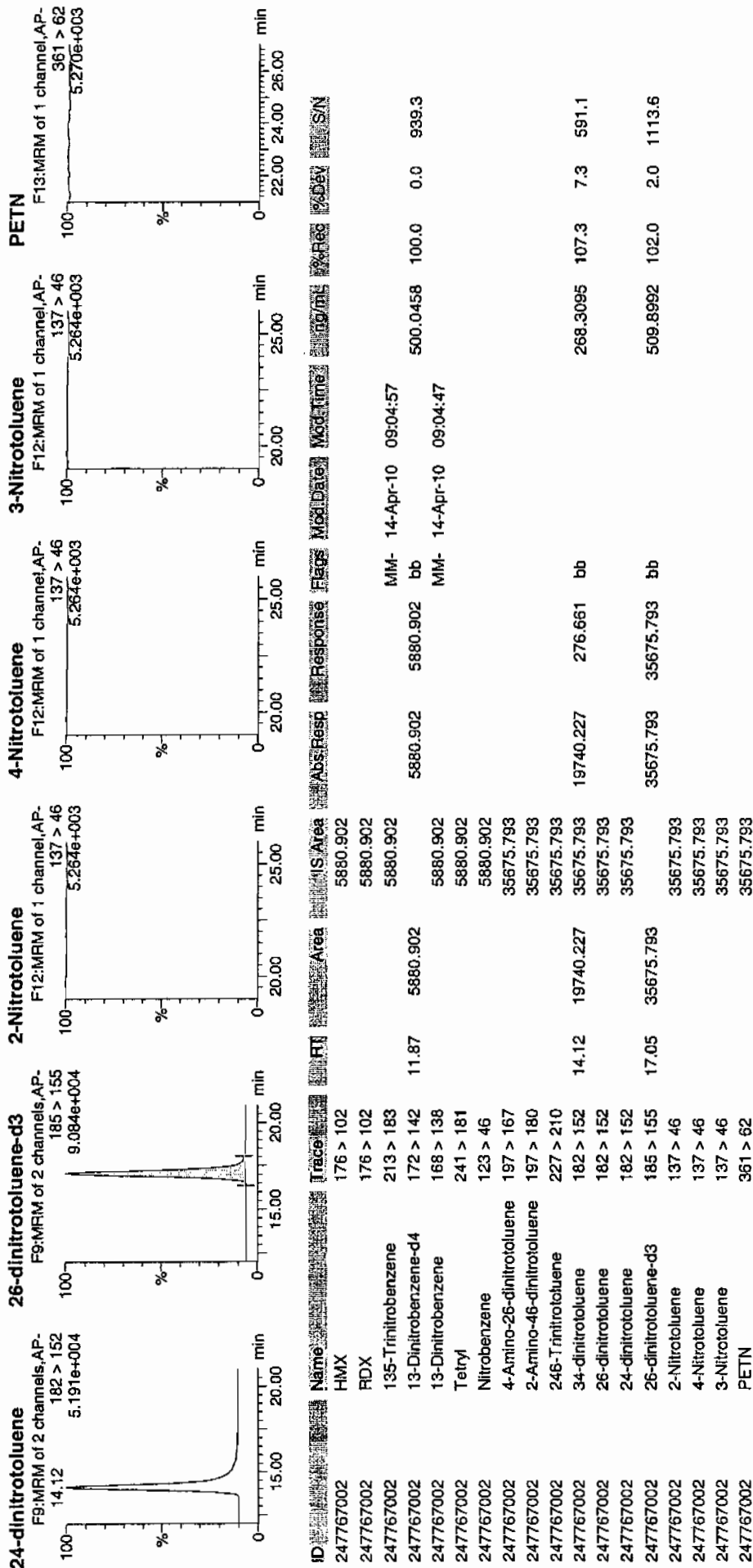
4/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 18 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8261

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767002

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220045.wiff

Date Analyzed: 23-MAR-10 02:44

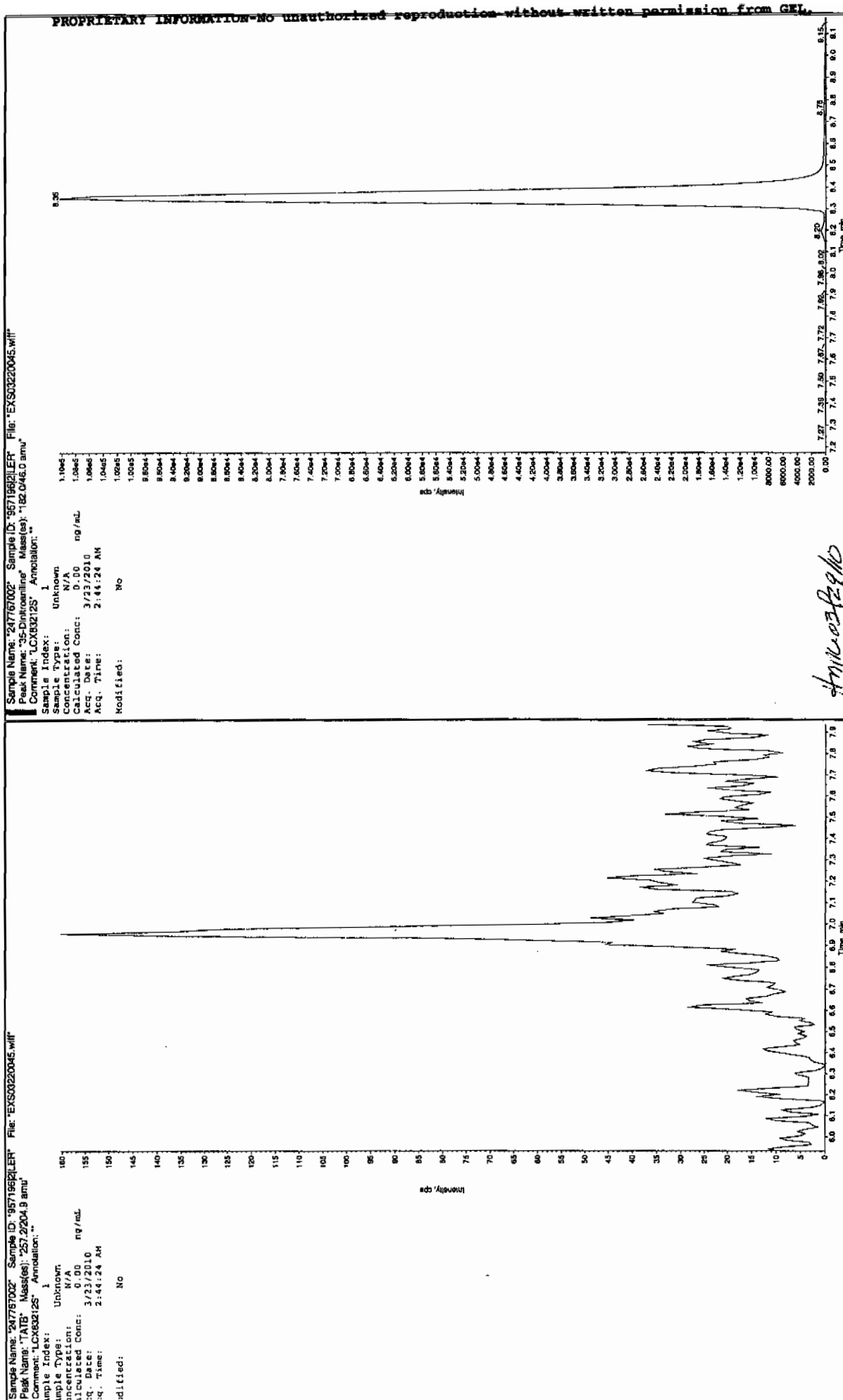
Units: ug/kg

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

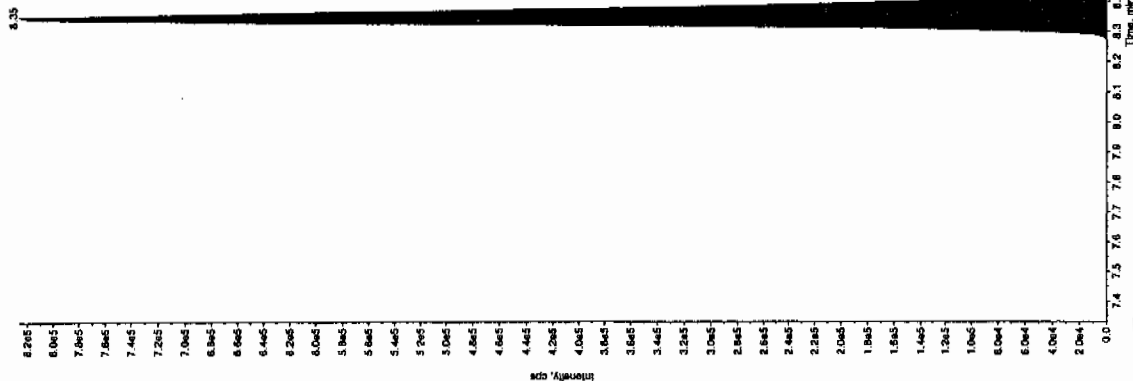
See 3/24/10



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

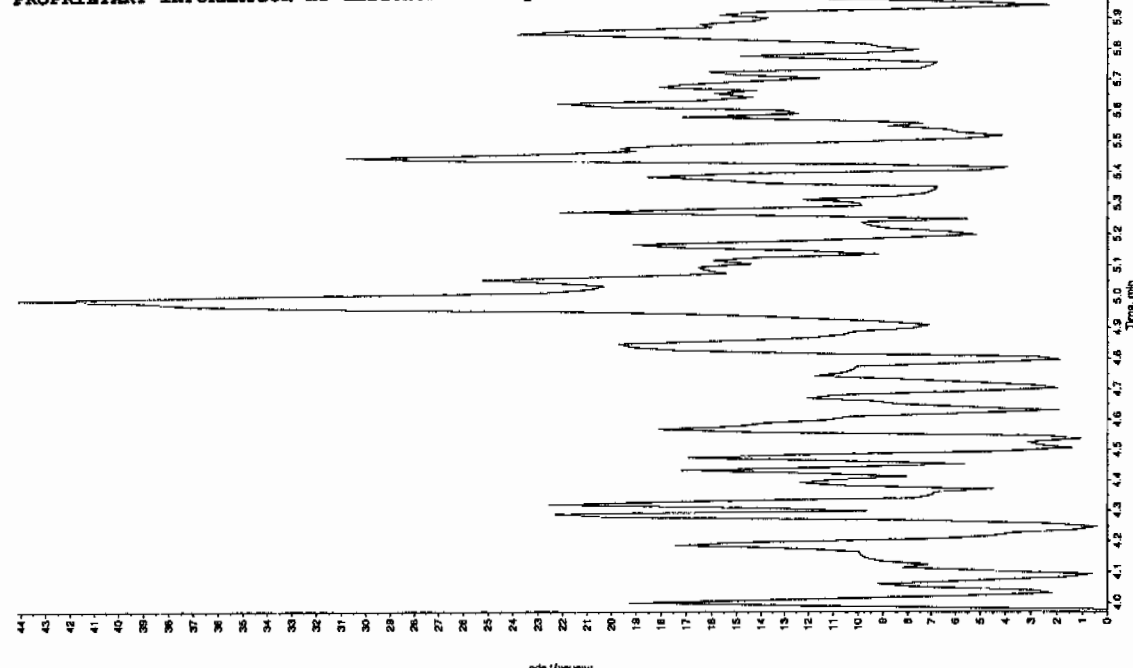
Sample Name: "247767002" Sample ID: "95719821.1ER" File: "EXS03220045.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3/23/2010
Acq. Date: 3/23/2010
Acq. Time: 2:44:24 AM
Modified: No
OC: Algorithm: IntelliQuan - IOA
n. Peak Height: 1460.00 cps
n. Peak Width: 0.00 sec
coating Width: 3 points
Window: 15.0 sec
Peak RT: 8.33 min
e Relative RT: No
t. Type: Valley
Retention Time: 8.35 min
sa: 3.14e+006 counts
Light: 82682.703 cps
rt Time: 8.23 min
3 Time: 8.70 min



Sample Name: "247767002" Sample ID: "95719821.1ER" File: "EXS03220045.wif"
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0/146.0 amu"
Comment: "LCX832125" Annotation: ""

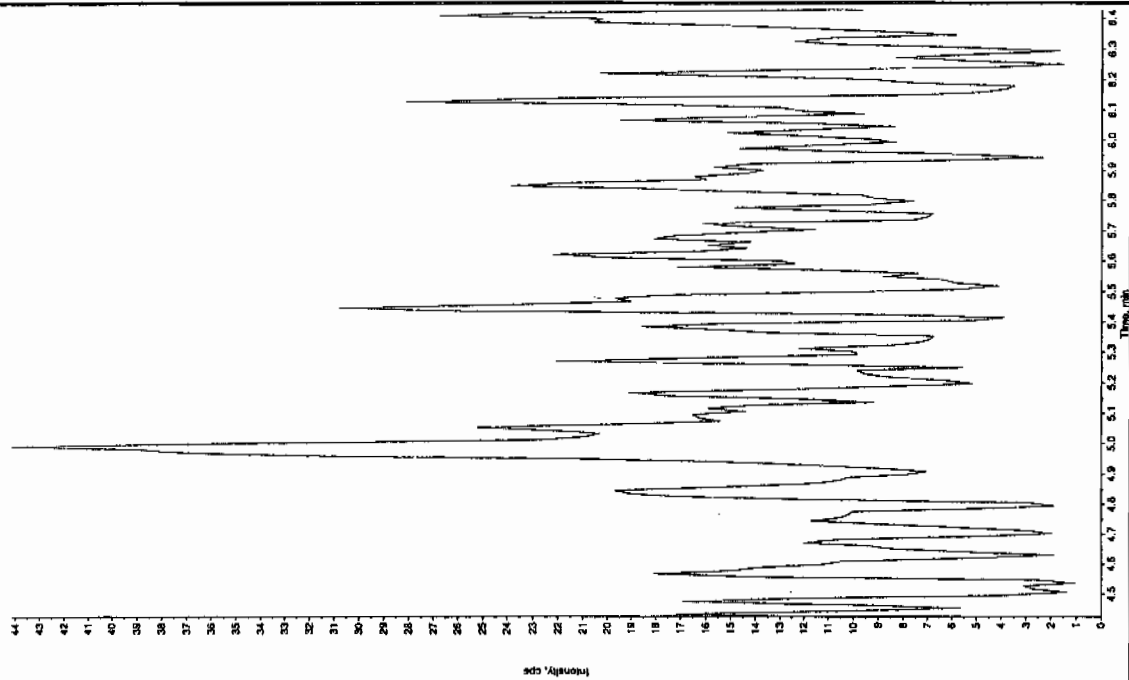
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3/23/2010
Acq. Date: 3/23/2010
Acq. Time: 2:44:24 AM
Modified: No



Sample Name: "247767002" Sample ID: "95719621ER" File: "EXS03220045.wit"
 Peak Name: "24-Diamino-5-nitroindole" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3.72/2010
 Date: 2/23/2010
 Acq. Time: 2:44:24 AM
 Diluted: No

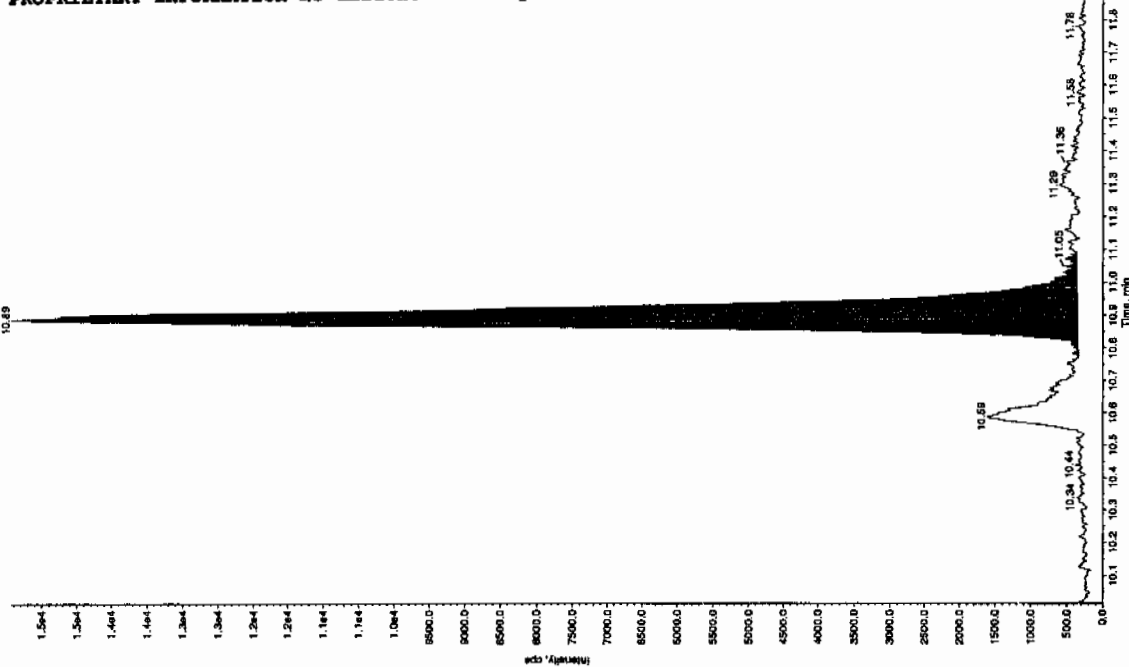
Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.34e+004 counts
 Height: 1501085 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "247767002" Sample ID: "95719621ER" File: "EXS03220045.wit"
 Peak Name: "triso-cresyl phosphatidyl" Mass(es): "389.1/91.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3.72/2010
 Date: 2/23/2010
 Acq. Time: 2:44:24 AM

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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.34e+004 counts
 Height: 1501085 cps
 Start Time: 10.8 min
 End Time: 11.1 min



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8257

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767003

Sample Amount 2

Moisture: 1.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412048a

Date Analyzed: 13-APR-10 14:47

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: Wed Apr 14 09:18:04 2010, Page 19 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412048a

Date: 13-Apr-2010

Time: 14:47:04

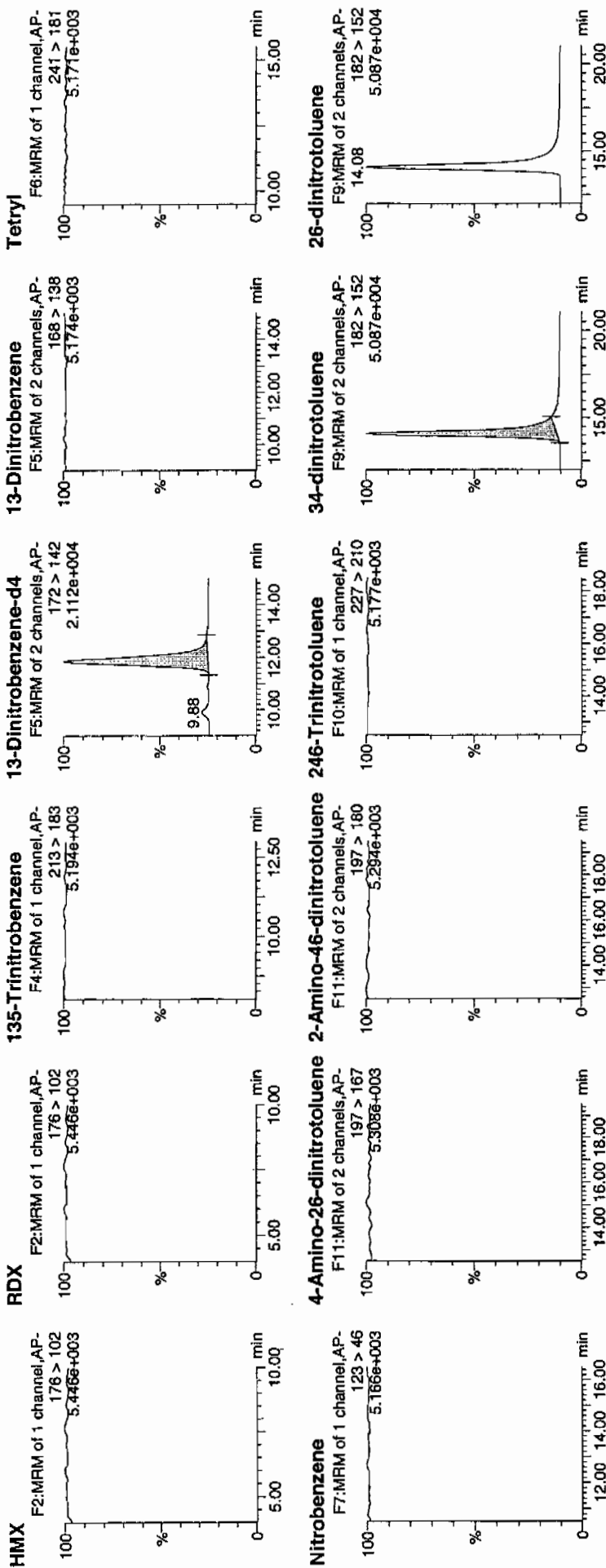
ID: 247767003

Vial: 2:6,A

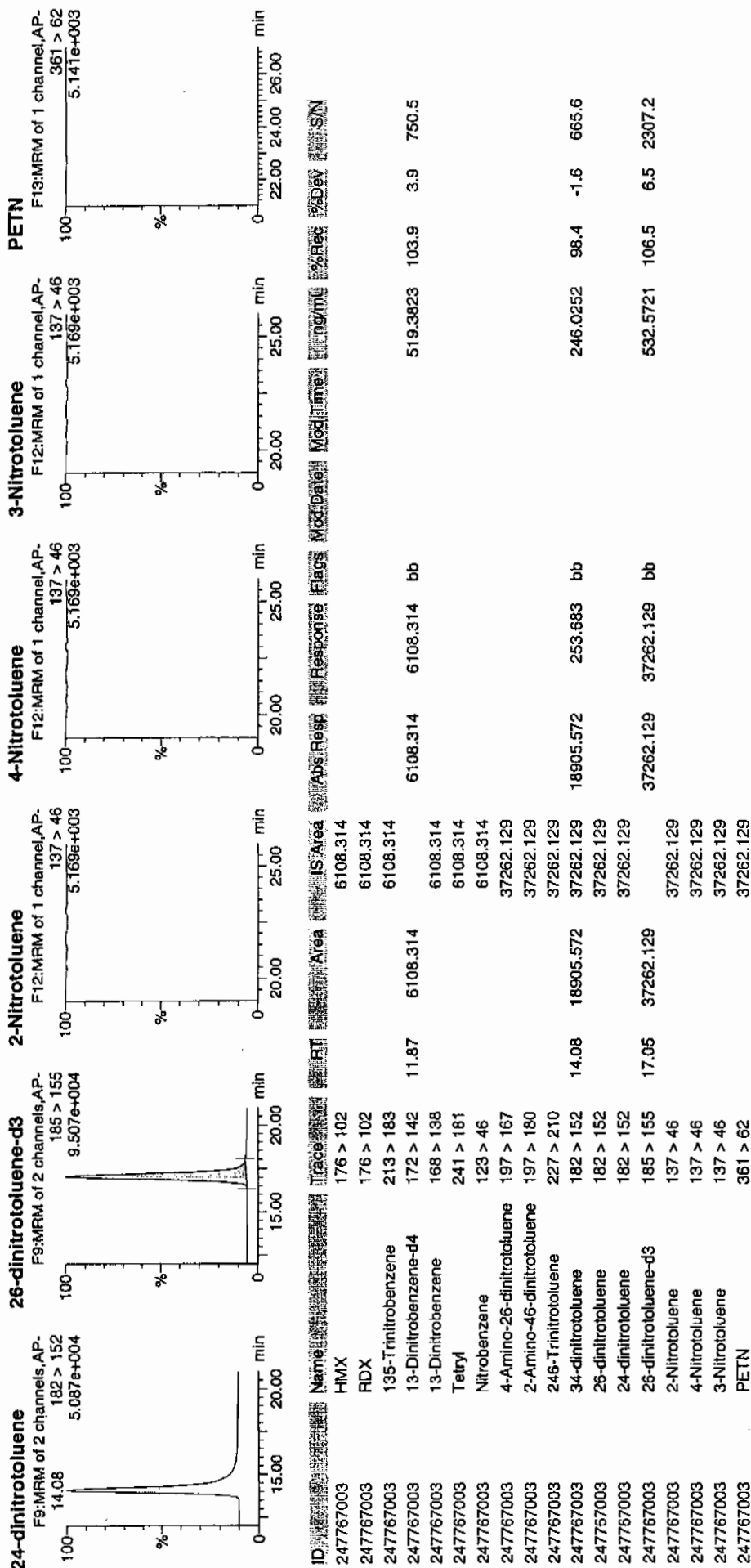
Left
4/14/10

Lawrence / 957496 / 8022 / 21

Page 140 of 548



Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8257

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767003

Sample Amount 2

Moisture: 1.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220046.wiff

Date Analyzed: 23-MAR-10 03:00

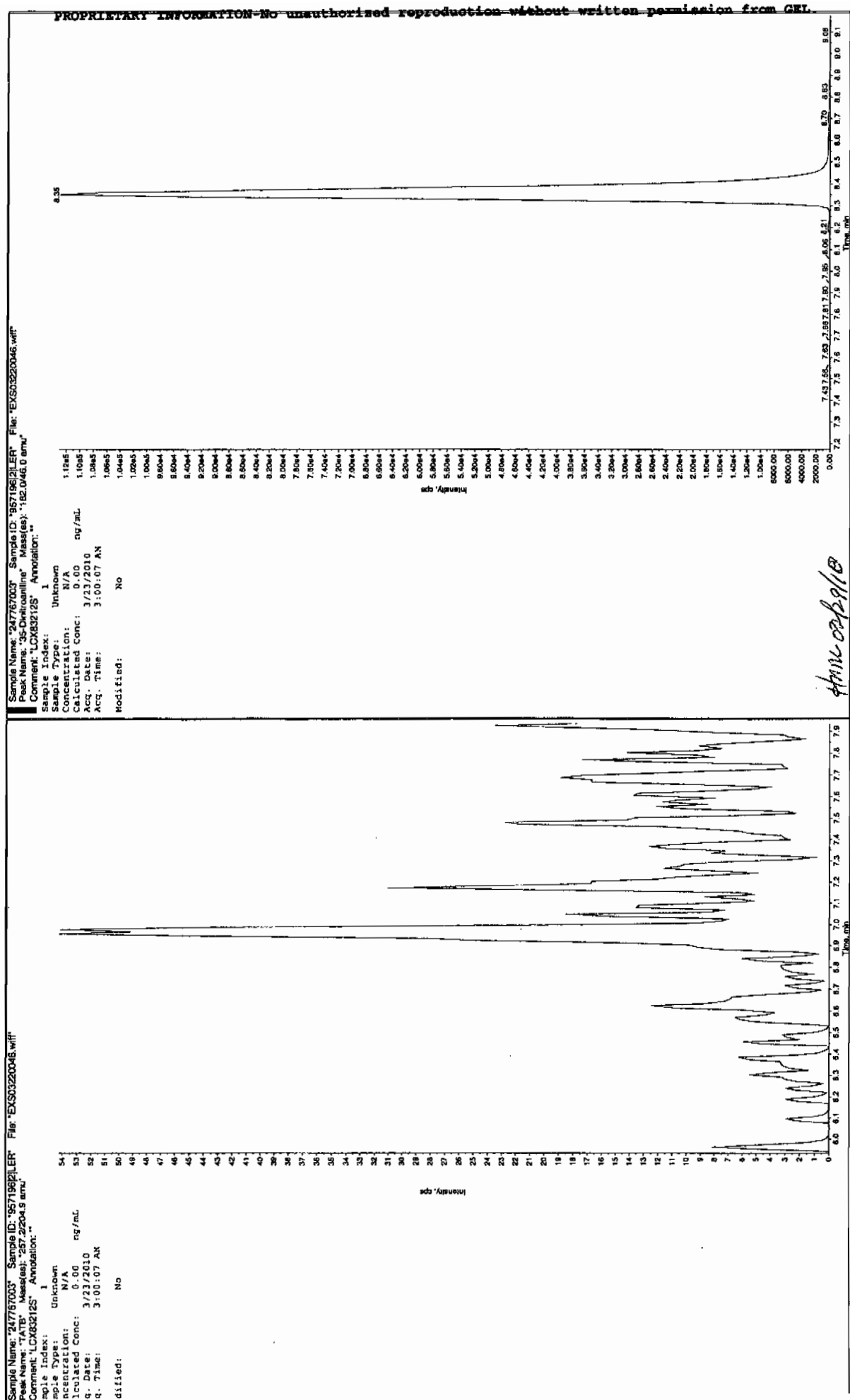
Units: ug/kg

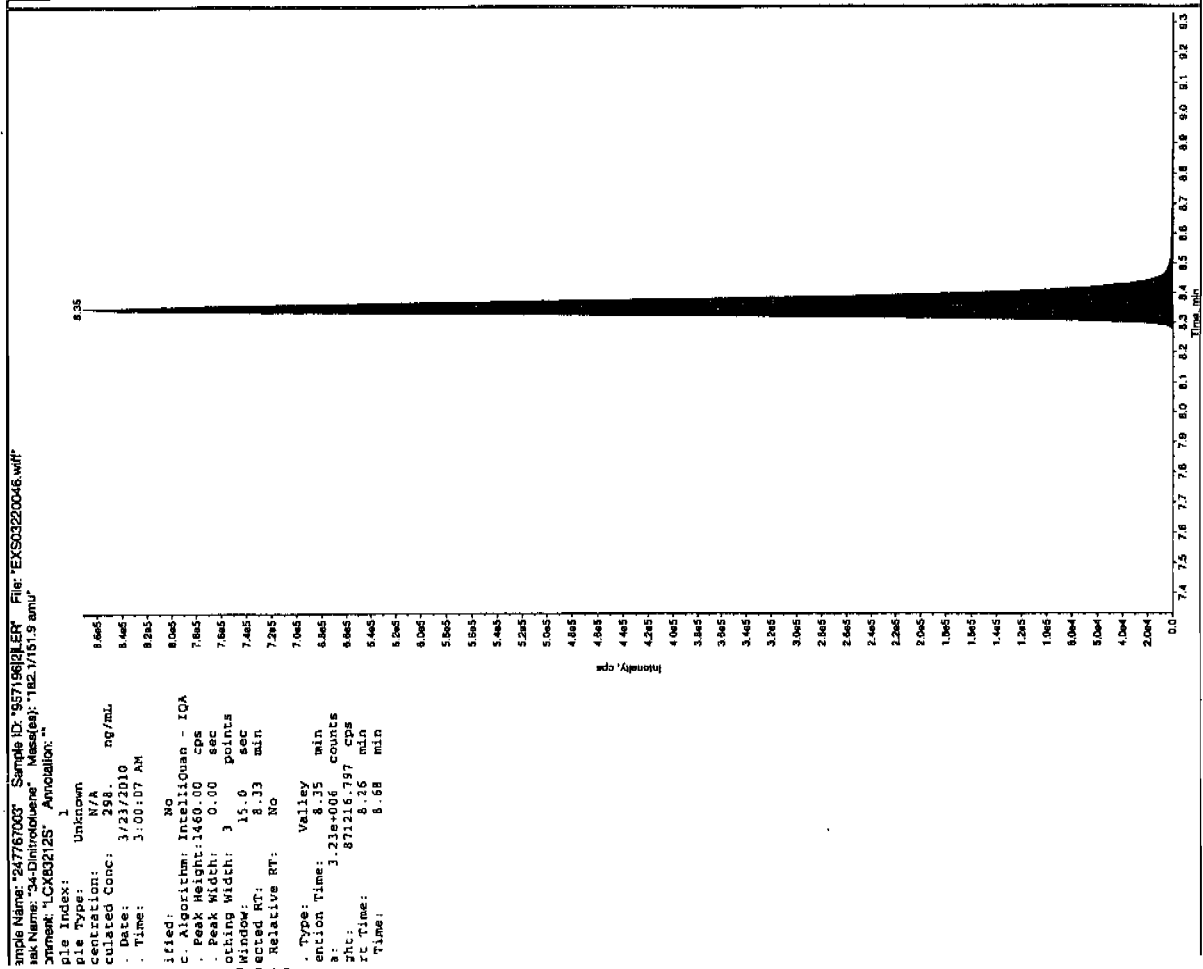
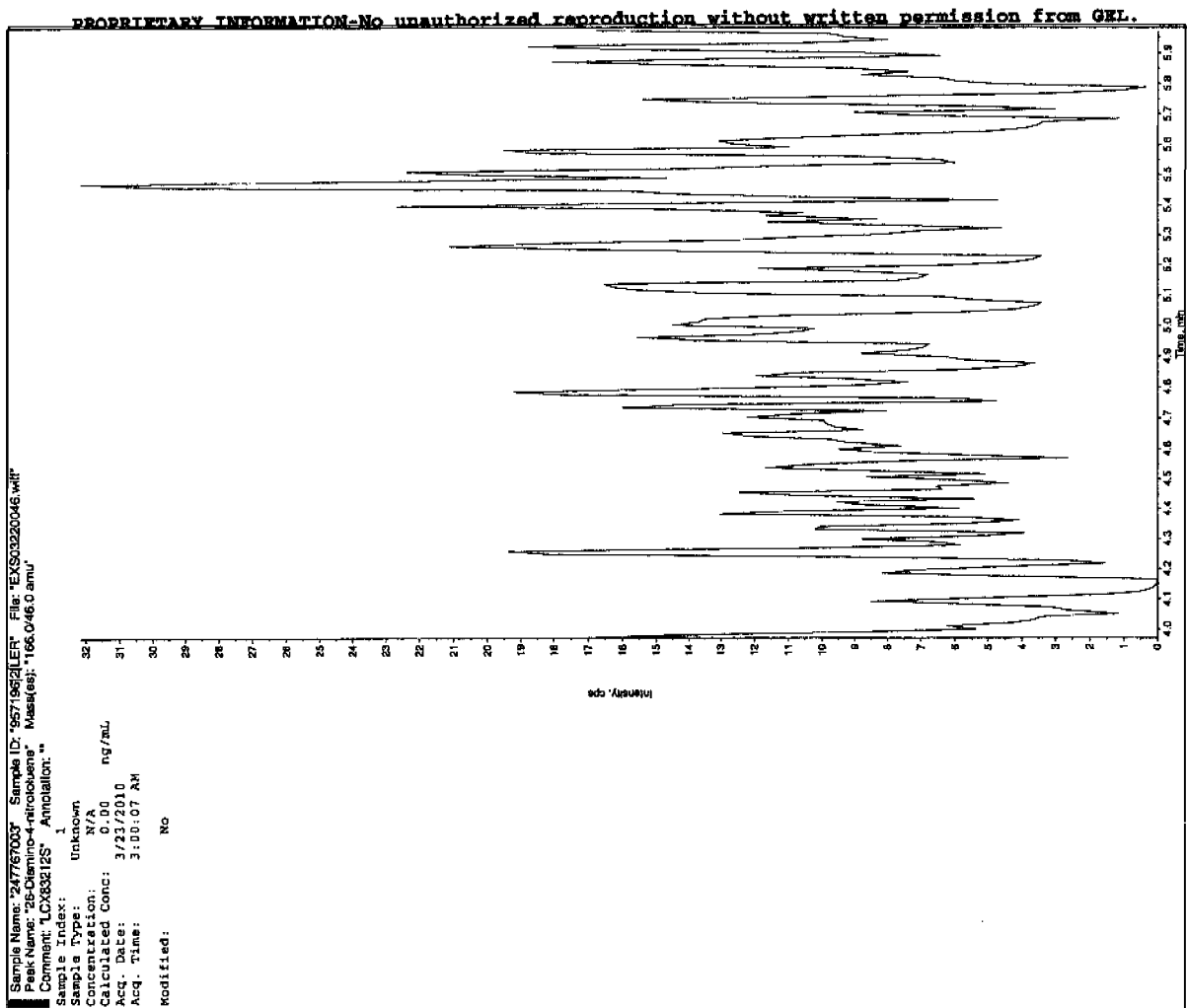
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

SLN 3/22/10

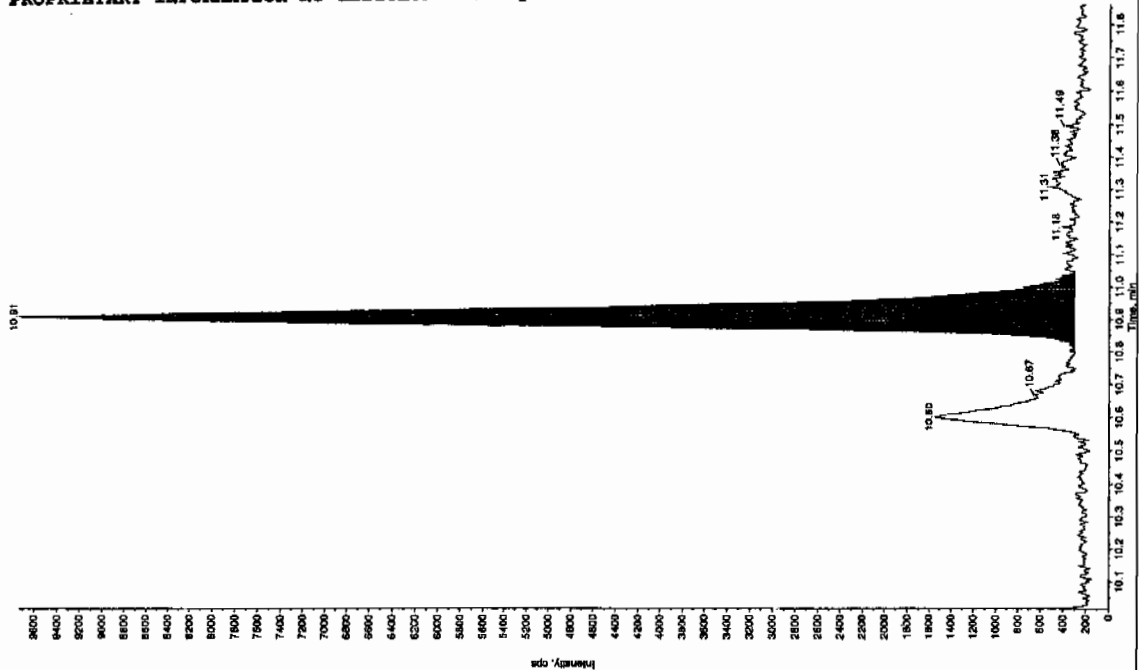




EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

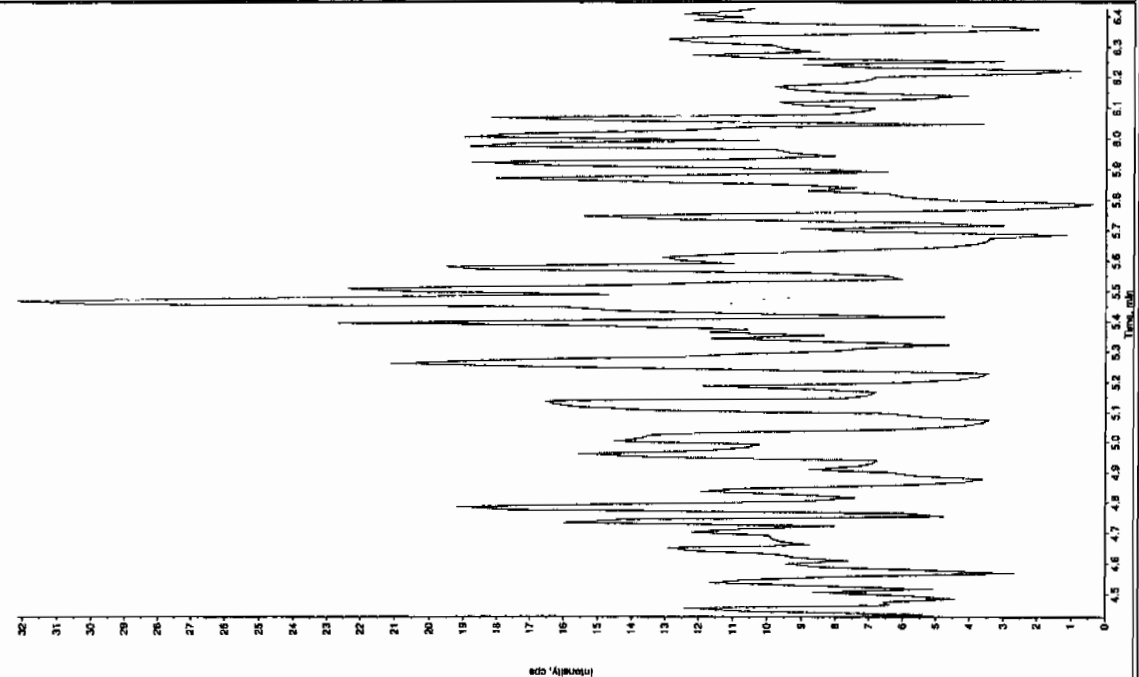
Sample Name: "24767003" Sample ID: "35719821.EP" File: "EX503220045.wif"
 Peak Name: "Unknown" Concentration: "N/A" Mass(es): "363.199.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 4.92 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:00:07 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 10.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 3.72e+004 counts
 Height: 9431.538 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Name: "24767003" Sample ID: "35719821.EP" File: "EX503220045.wif"
 Peak Name: "24-Dienho-5-epidioleone" Concentration: "N/A" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:00:07 AM
 Modified: No



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8260

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767004

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412052a

Date Analyzed: 13-APR-10 16:45

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

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412052a

Date: 13-Apr-2010

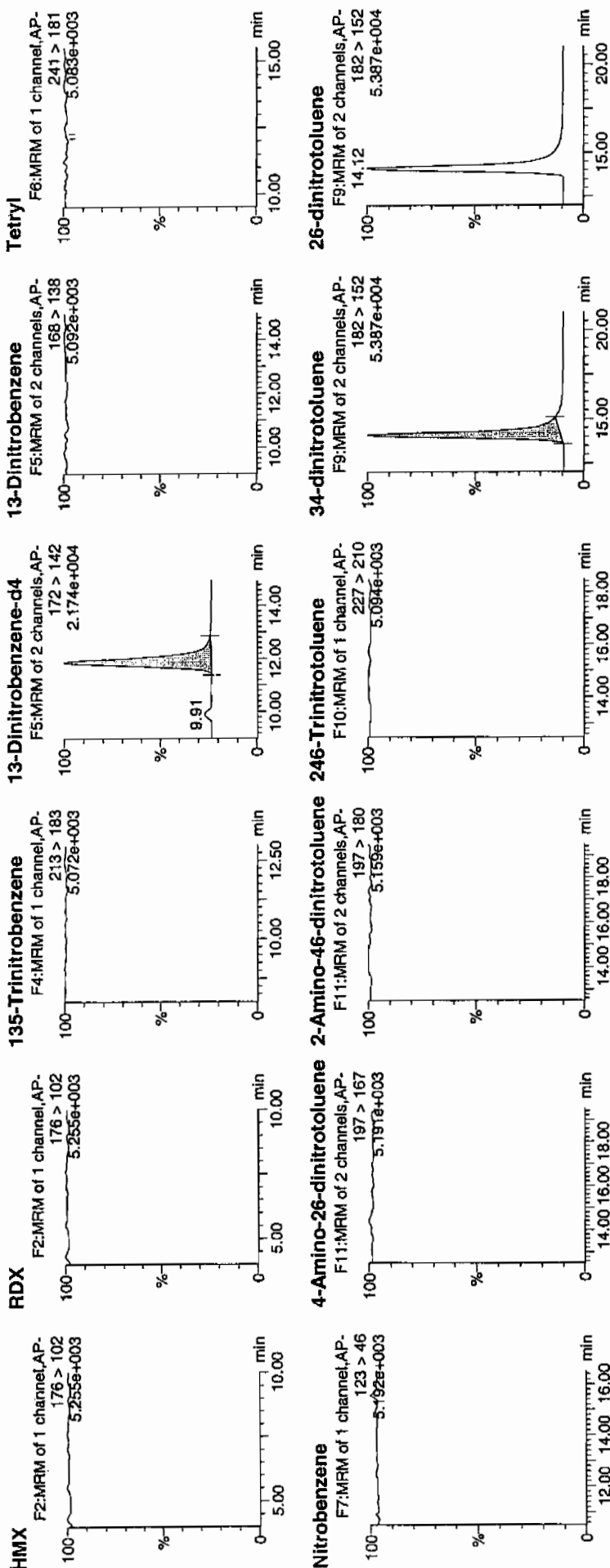
Time: 16:45:08

ID: 247767004

Vial: 2:6,B

1677
4/14/10

ANALYST 957496 (Sara) 2-1



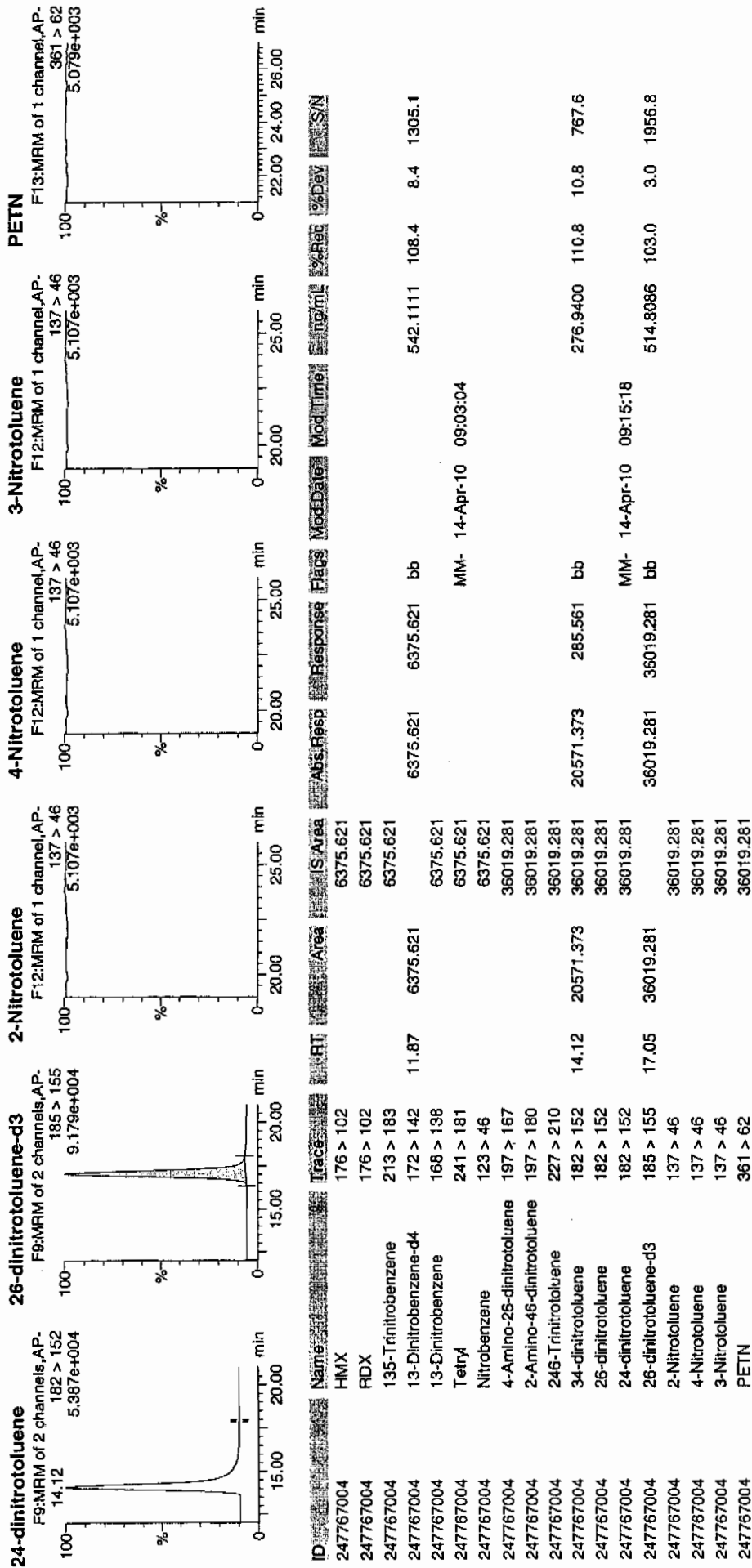
ANALYST 957496 (Sara) 2-1

Quantity Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 28 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8260

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767004

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220047.wiff

Date Analyzed: 23-MAR-10 03:15

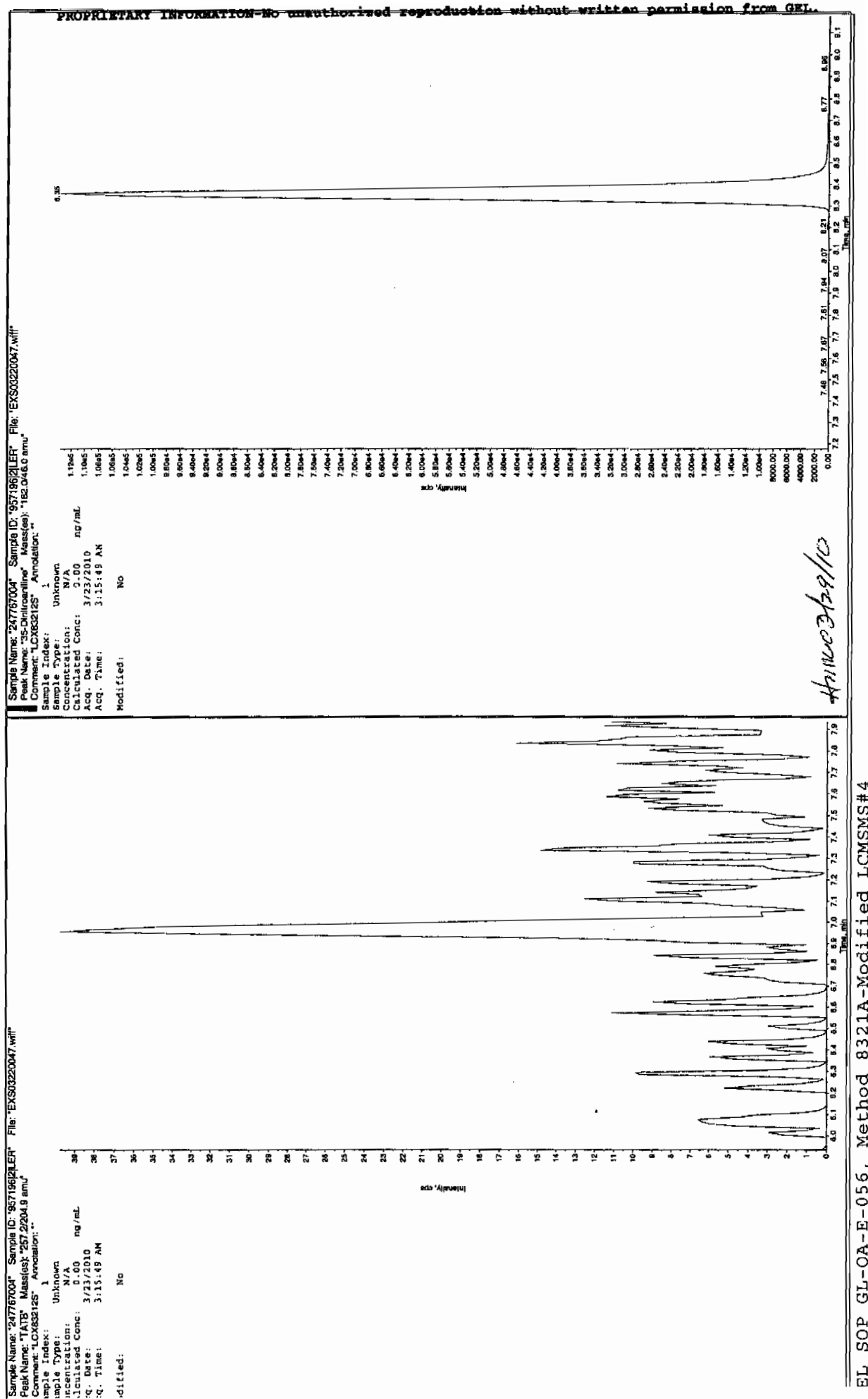
Units: ug/kg

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 =

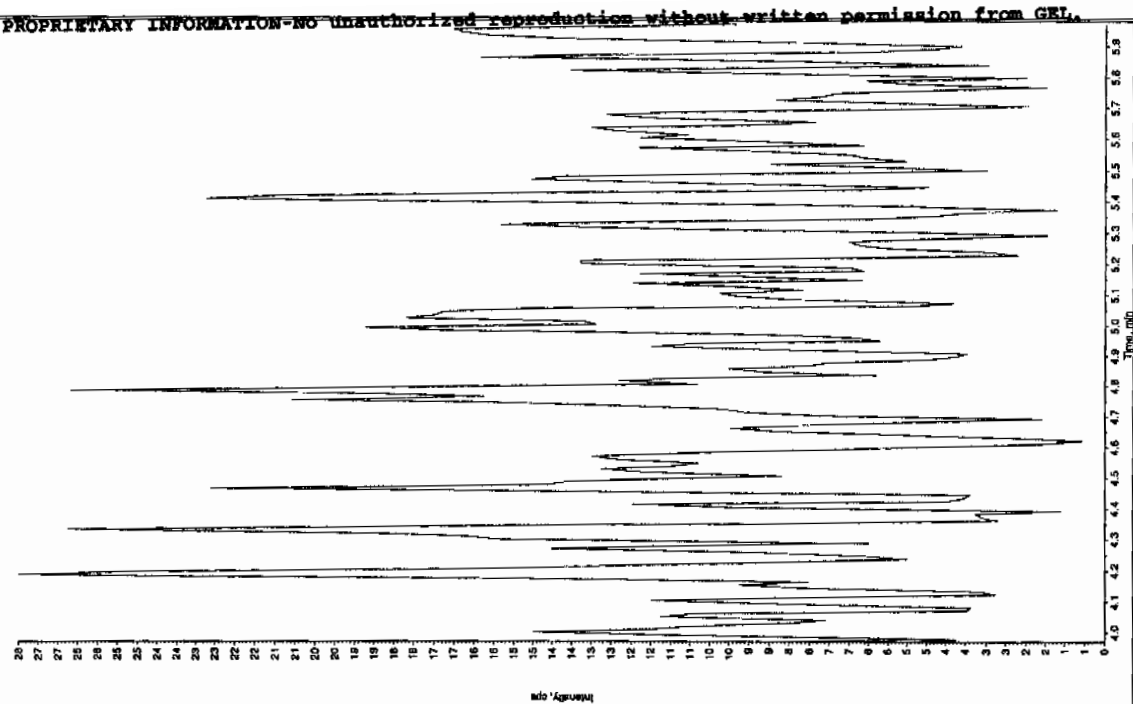
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

80A 3/27/10



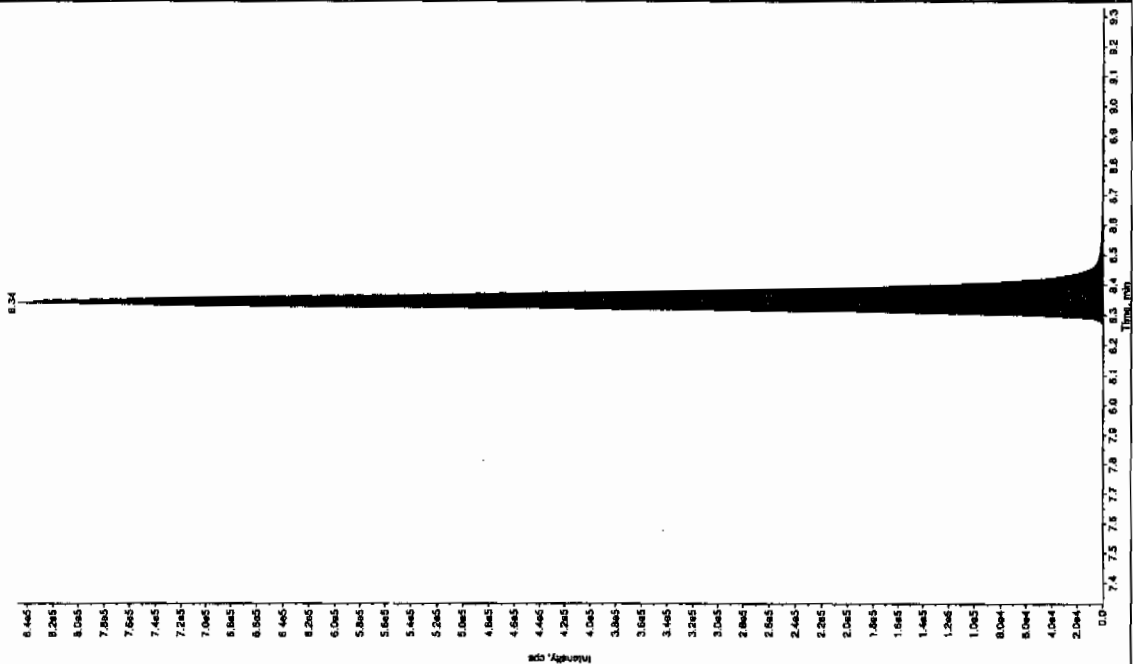
Sample Name: 247767004 Sample ID: 95719521ER File: EXS03220047.wif
 Peak Name: 26-Diamino-4-nitrofluorene Mass(es): 166.046.0 amu
 Comment: LCX032125 Annotation: 1

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:15:49 AM
 Modified: No



Sample Name: 247767004 Sample ID: 95719521ER File: EXS03220047.wif
 Peak Name: 34-Dinitrofluorene Mass(es): 182.17151 amu
 Comment: LCX032125 Annotation: 1

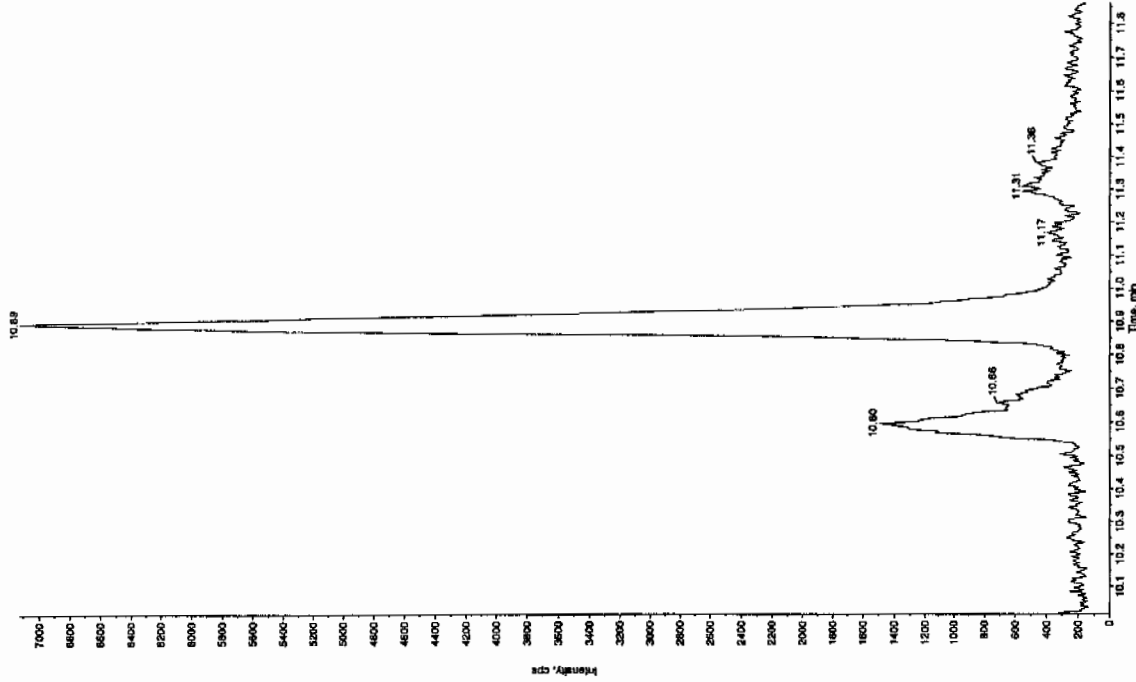
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 290 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:15:49 AM
 Modified: No
 Ac. Algorithm: IntelliQuan - IQA
 n. Peak Height: 1460.00 cps
 n. Peak Width: 9.00 sec
 Window Width: 3 points
 Window: 15.0 sec
 Detected RT: 8.33 min
 Relative RT: No
 t. Type: Valley
 Retention Time: 8.34 min
 es: 1.14e+006 counts
 Light: 688120.911 cps
 arc Time: 8.23 min
 d Time: 8.71 min



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

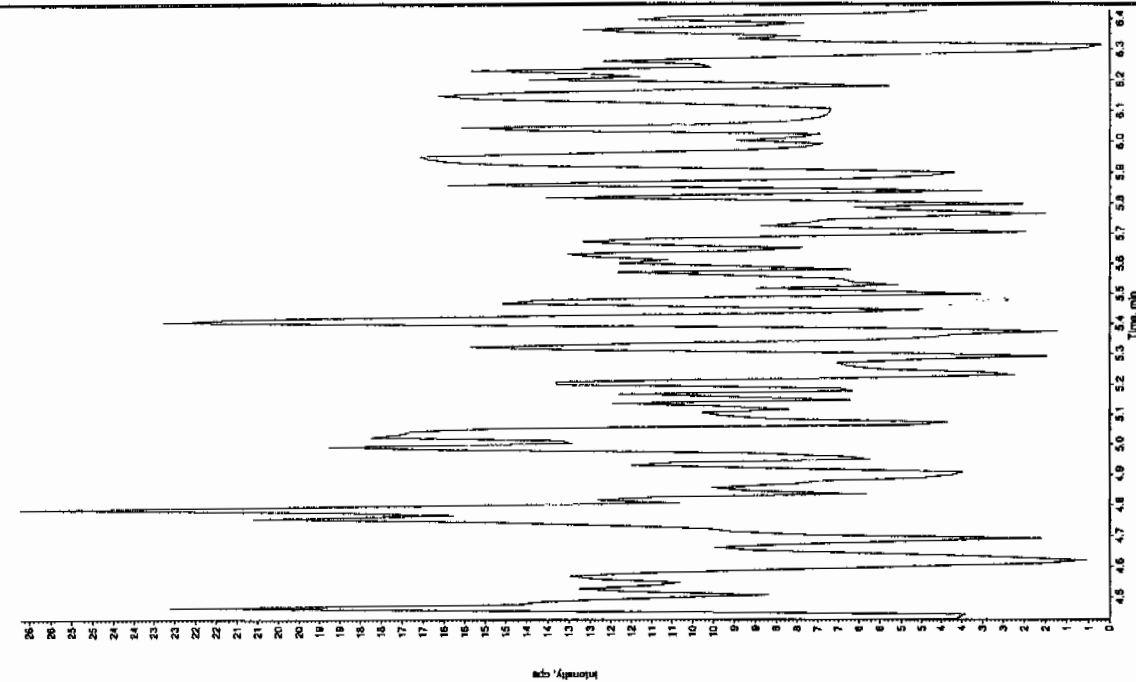
Sample Name: "247767004" Sample ID: "95719621LER" File: "EXS03220047.will"
 Peak Name: "trifluoromethyl phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 3/15/19 AM
 Acq. Time: 3:15:49 AM
 Modified: No



Sample Name: "247767004" Sample ID: "95719621LER" File: "EXS03220047.will"
 Peak Name: "24-Diamino-5-nitrocholine" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 3/15/19 AM
 Acq. Time: 3:15:49 AM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8258

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412053a

Date Analyzed: 13-APR-10 17:14

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412053a

Date: 13-Apr-2010

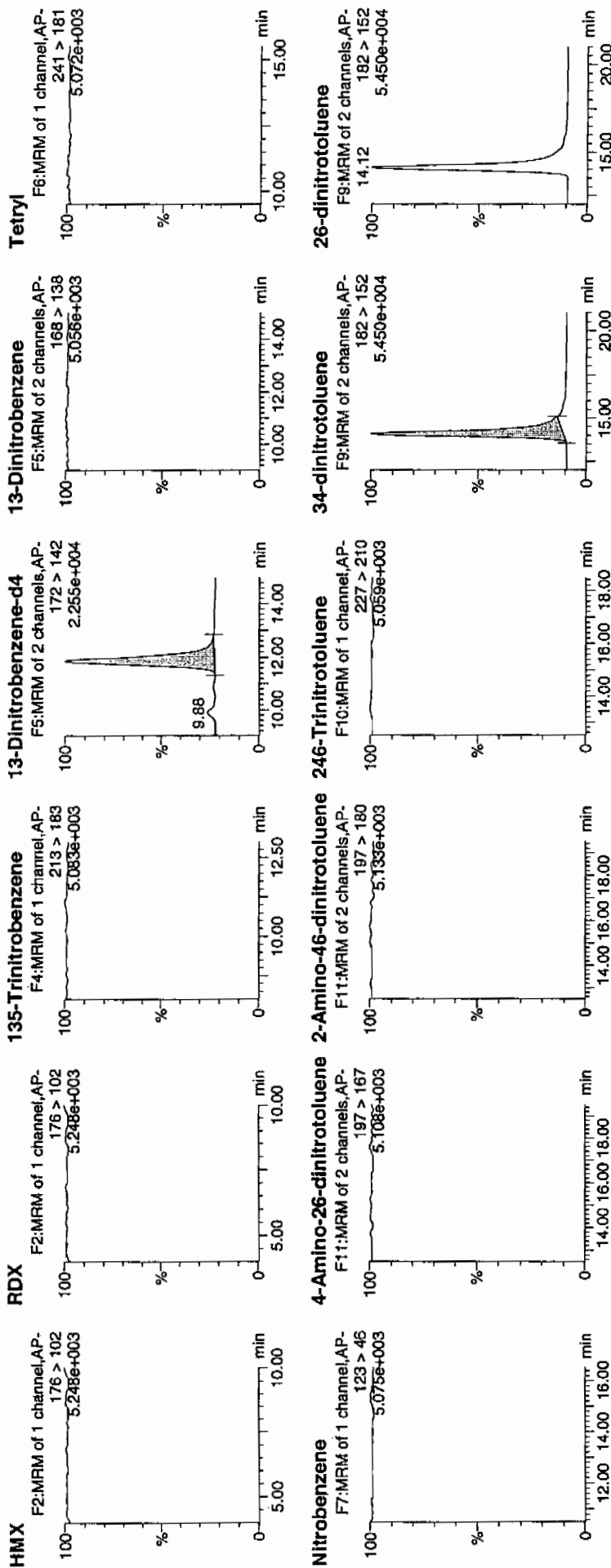
Time: 17:14:41

ID: 247767005

Vial: 2:6,C

4/14/10
9/14/10

WAX | 957196 | 21



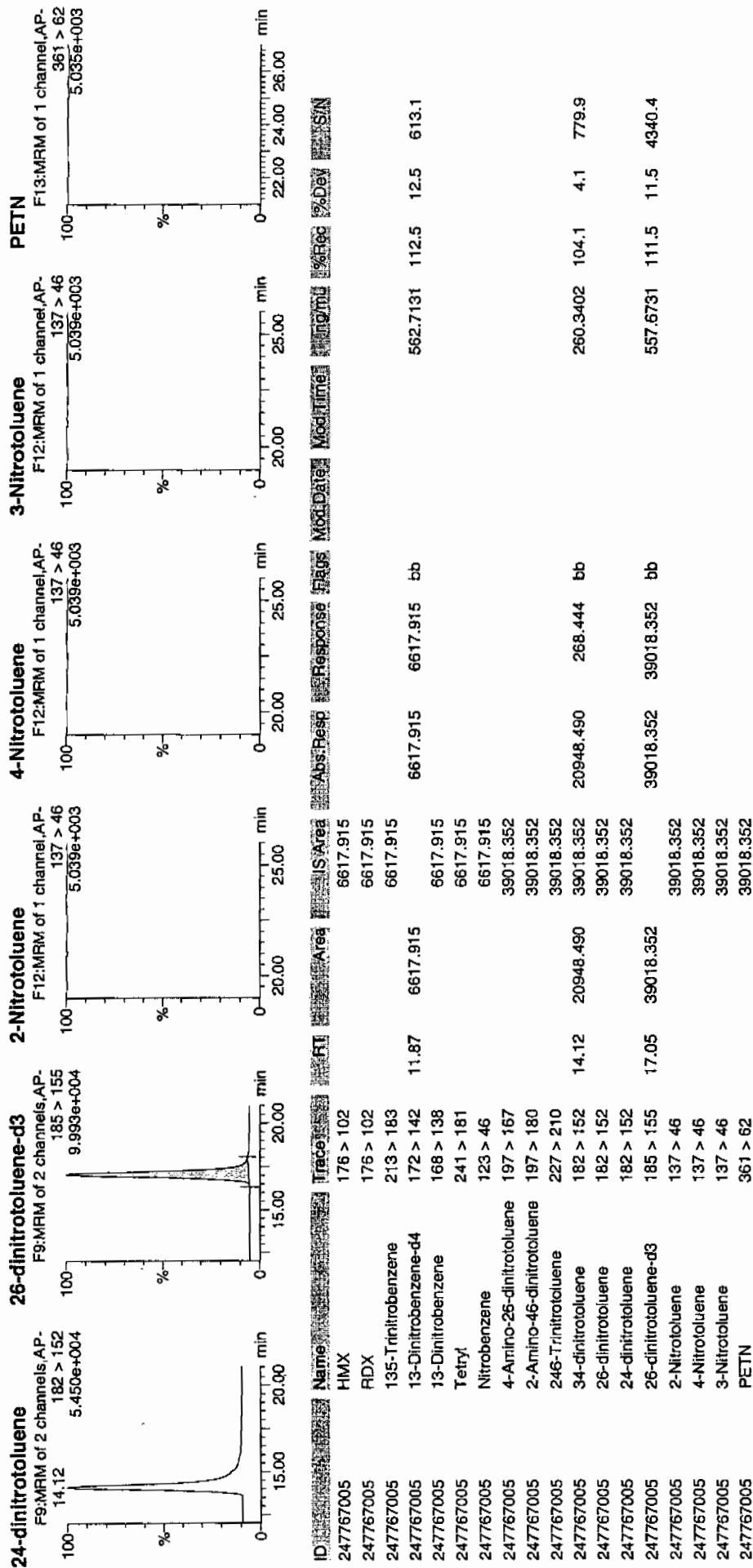
Handwritten signature: 04/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 30 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8258

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220051.wiff

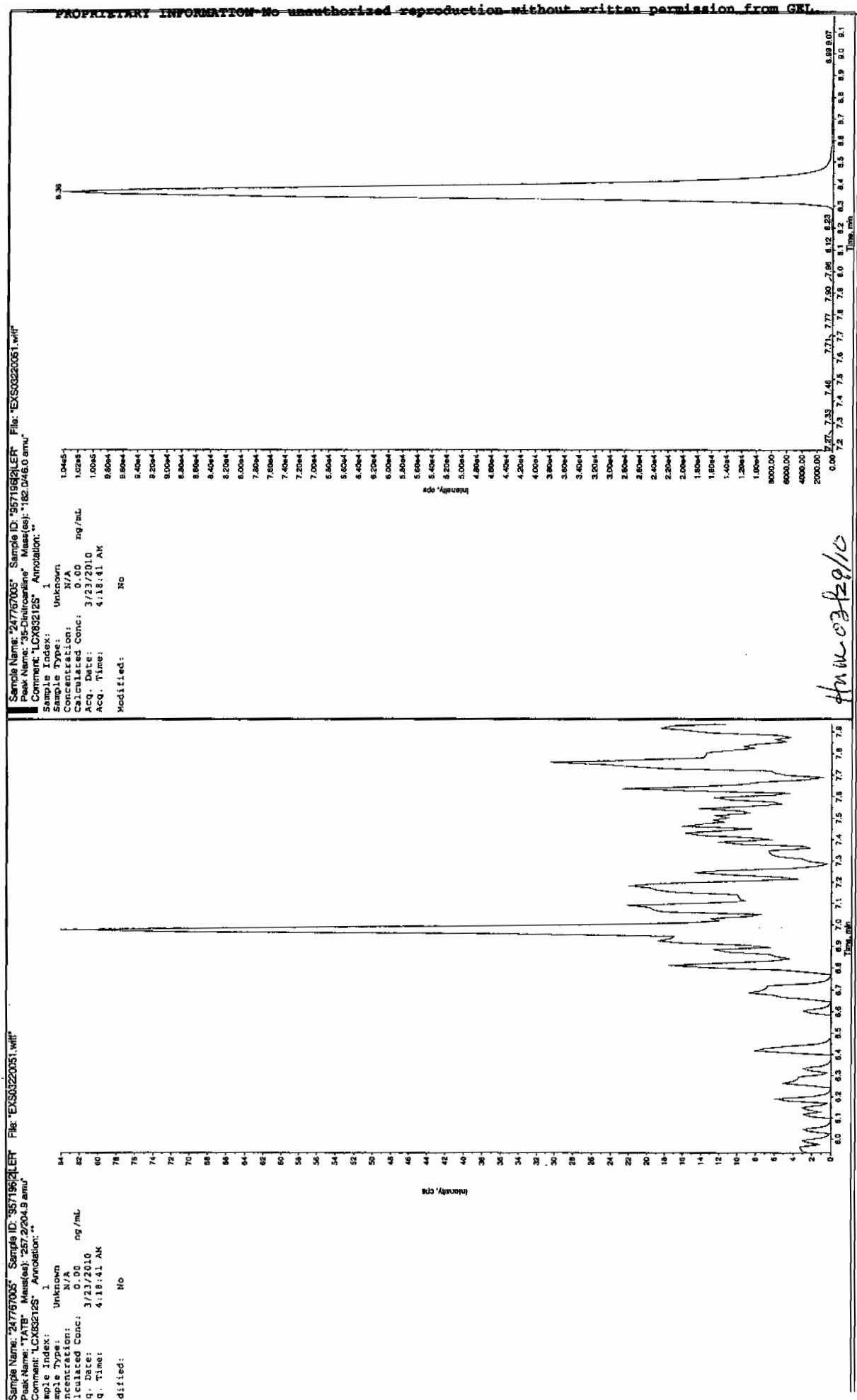
Date Analyzed: 23-MAR-10 04:18

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

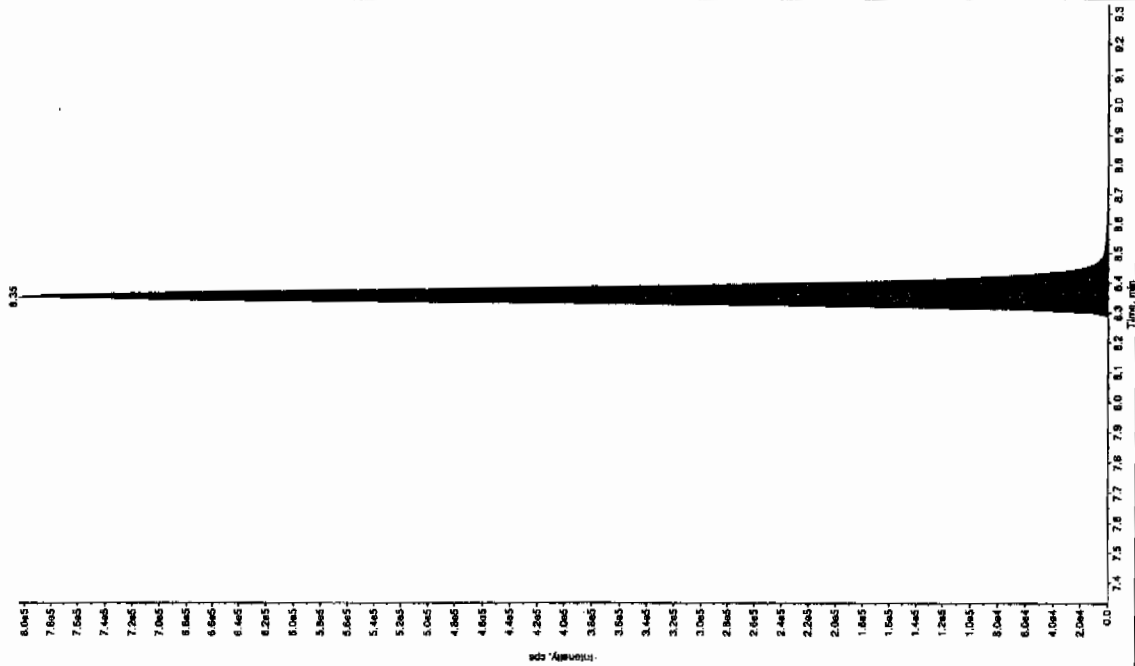
*Concentration =

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



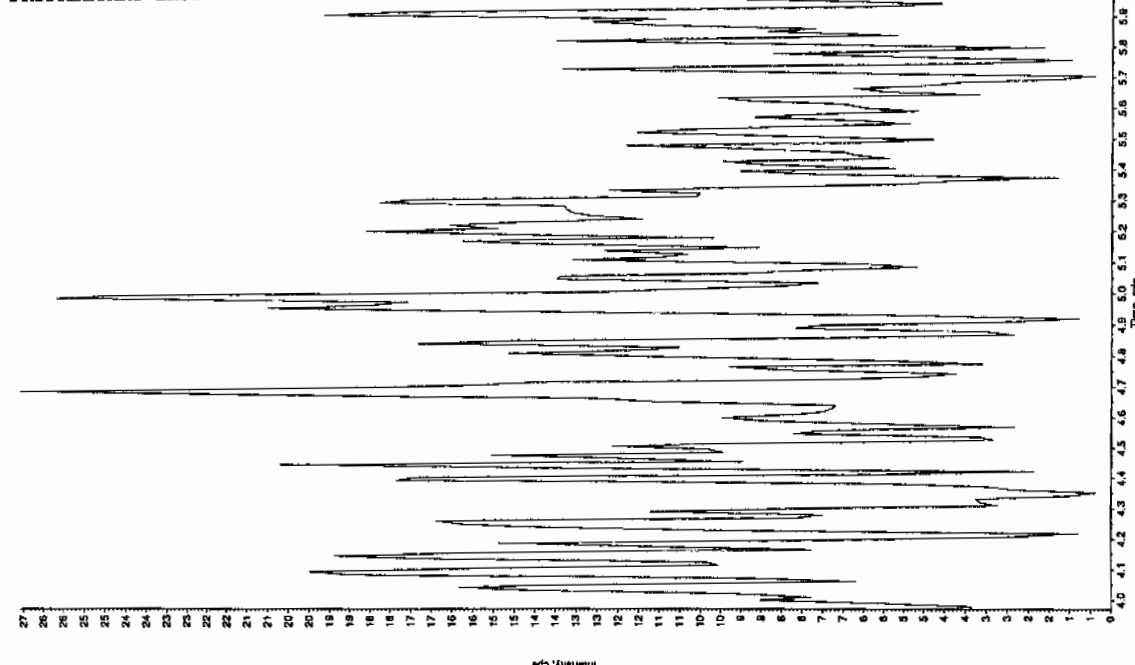
Sample Name: "247767005" Sample ID: "95719621LER" File: "EXS03200351.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "162.17619 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 282.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 4:18:41 AM
Modified: No
QC Algorithm: IntelliQuan - IQA
Peak Height: 1460.00 cps
Peak Width: 3.06 sec
Solving Width: 3.00 points
Window: 15.0 sec
Spectrum RT: 8.33 min
e Relative RT: No
t. Type: Valley
Retention Time: 8.35 min
Height: 3.06e+006 counts
Arc Time: 8.23 min
d Time: 8.68 min



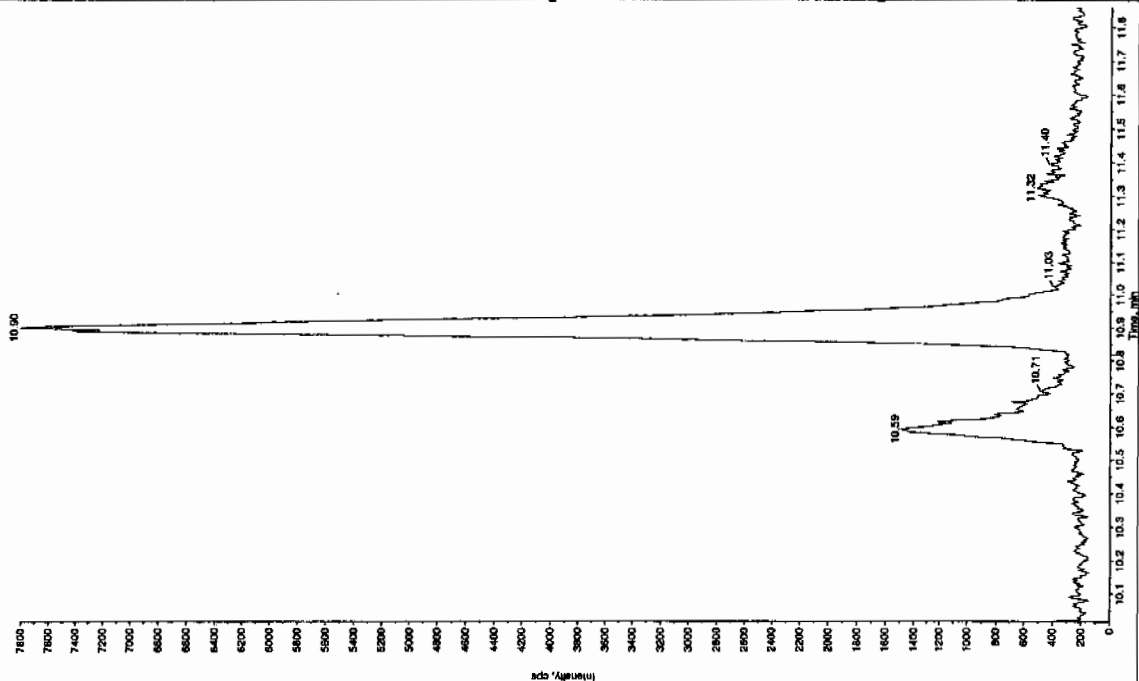
Sample Name: "247767005" Sample ID: "95719621LER" File: "EXS03200351.wif"
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.04650 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 4:18:41 AM
Modified: No



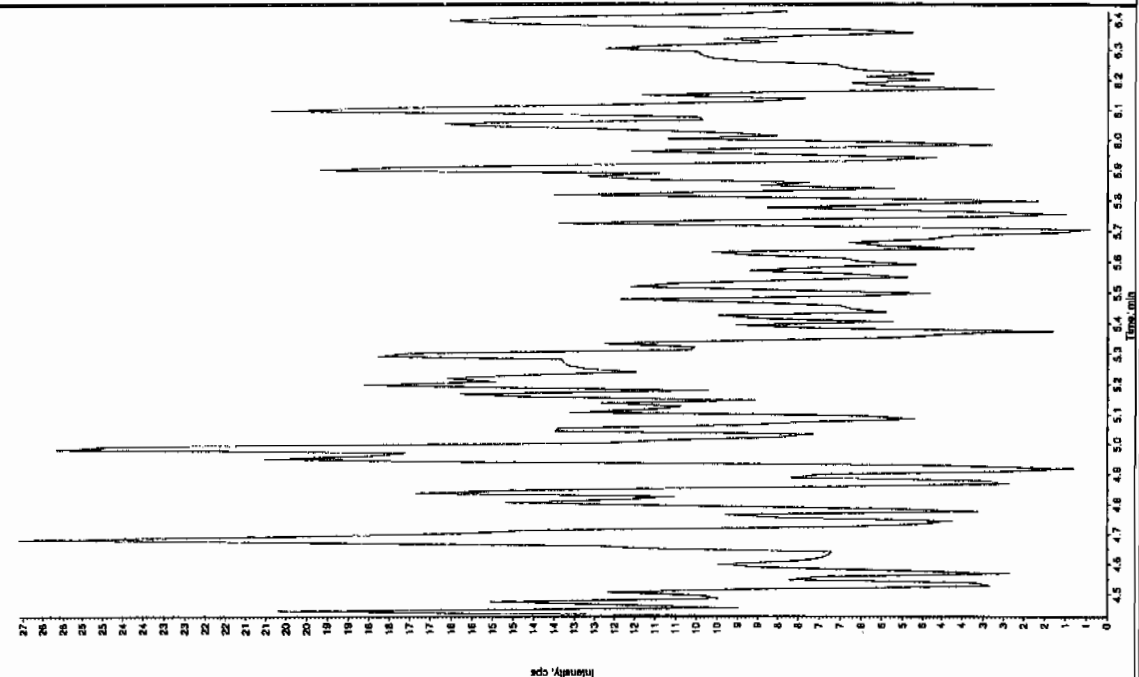
Sample Name: "247767005" Sample ID: "957196121" File: "EXS03220051.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:18:41 AM
 Modified: No



Sample Name: "247767005" Sample ID: "957196121" File: "EXS03220051.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:18:41 AM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8263

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412054a

Date Analyzed: 13-APR-10 17:44

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\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0412054a

Date: 13-Apr-2010

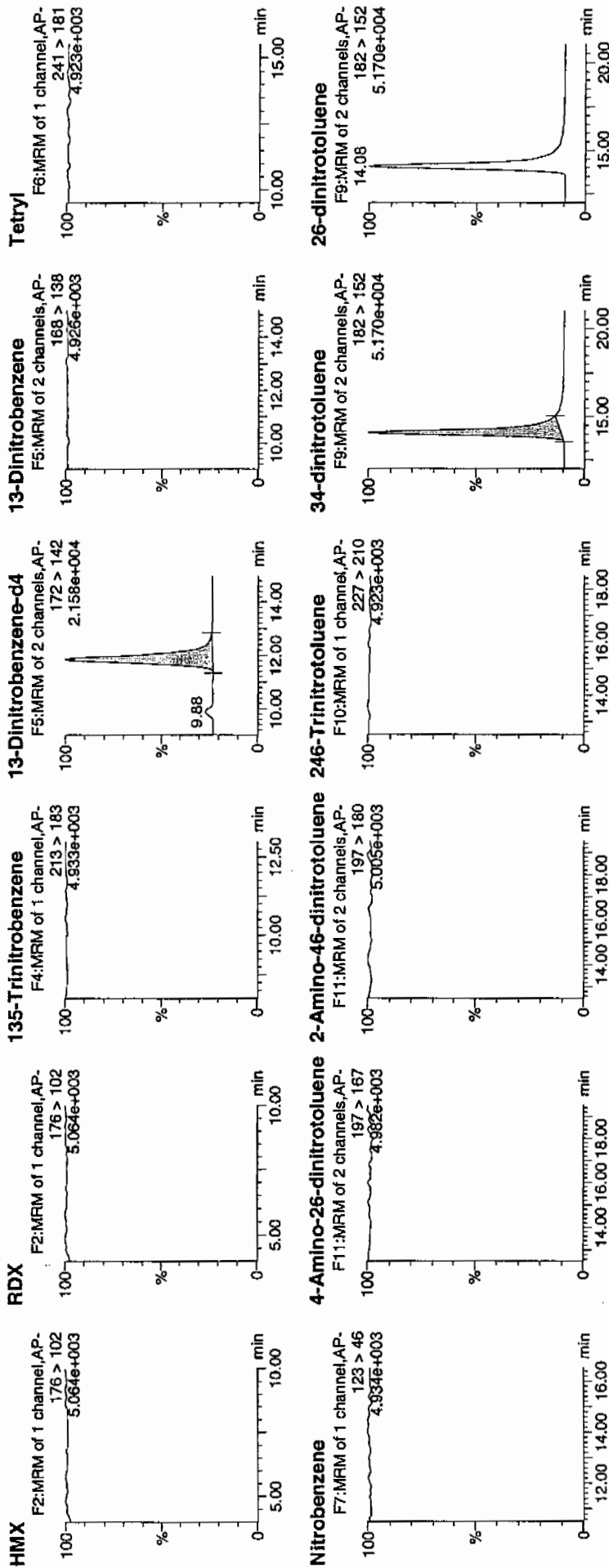
Time: 17:44:12

ID: 247767006

Vial: 2:6,D

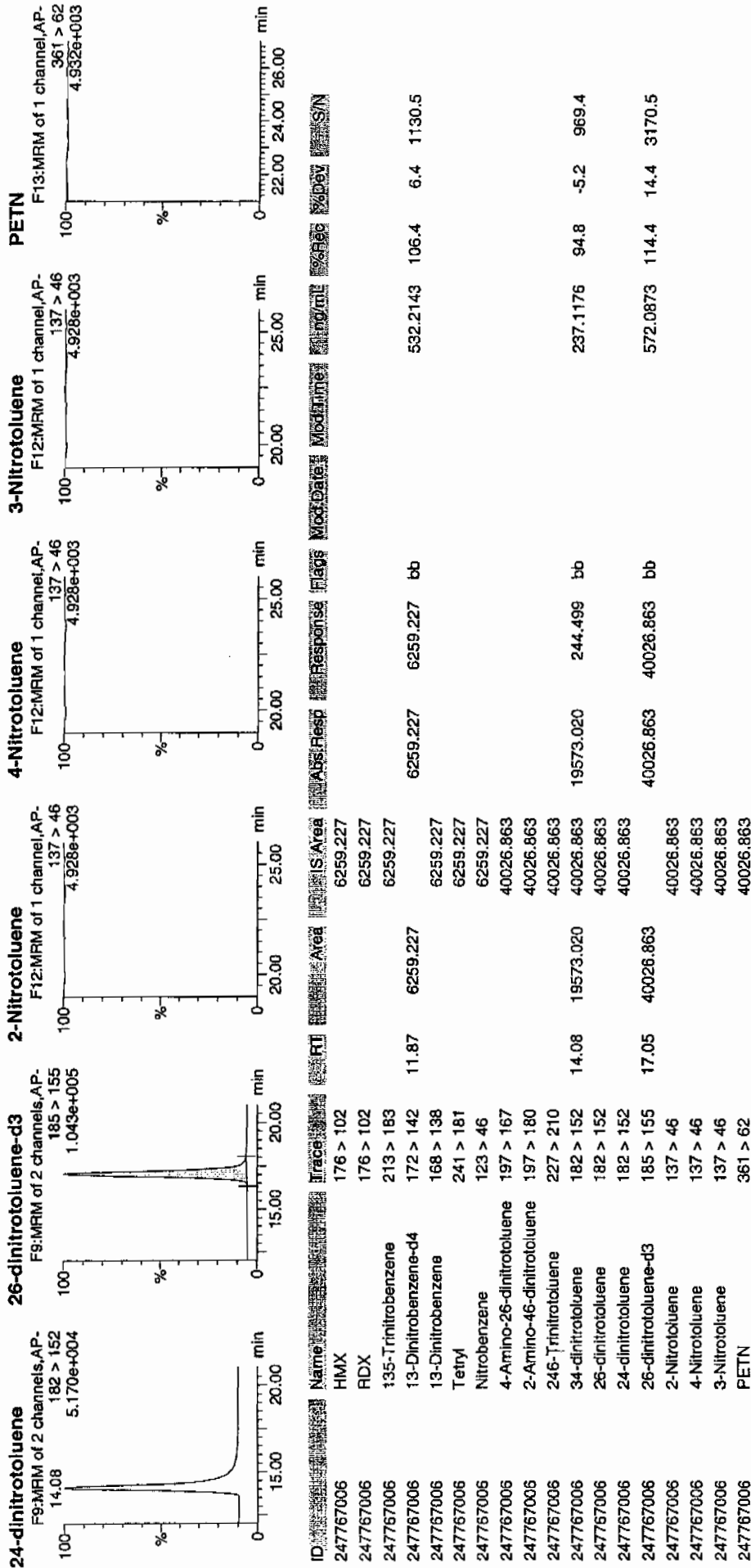
WTF
4/14/10

WTF
4/14/10
21



Handwritten signature
4/14/10

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8263

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220052.wiff

Date Analyzed: 23-MAR-10 04:34

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

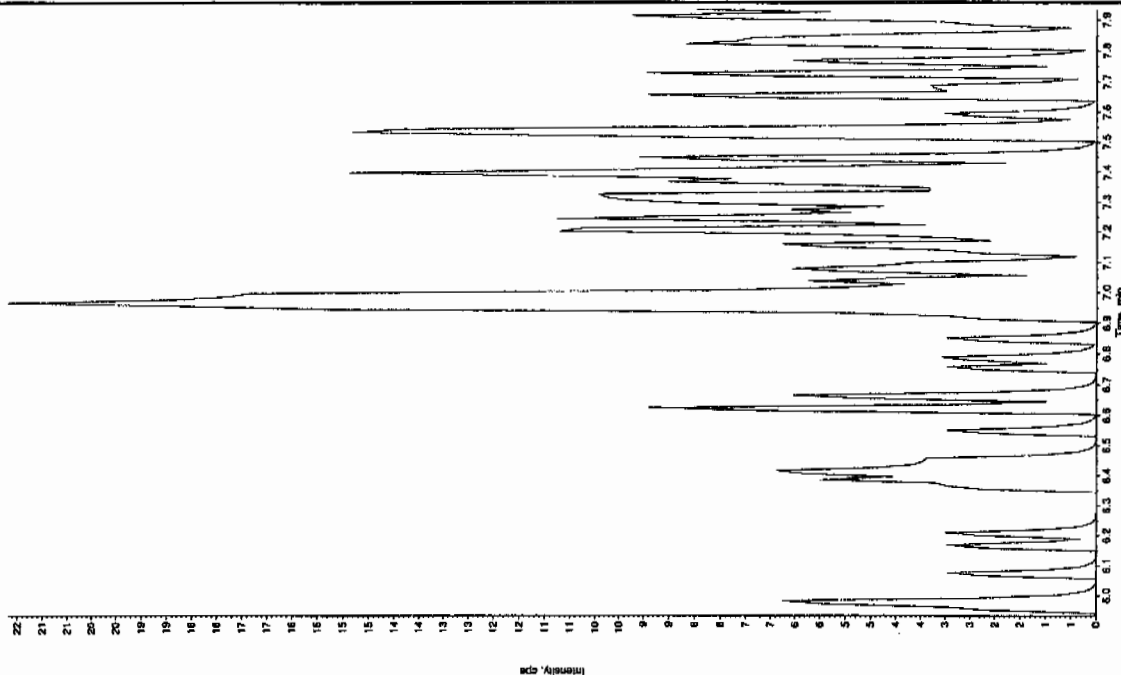
*Concentration =

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

See 3/27/10

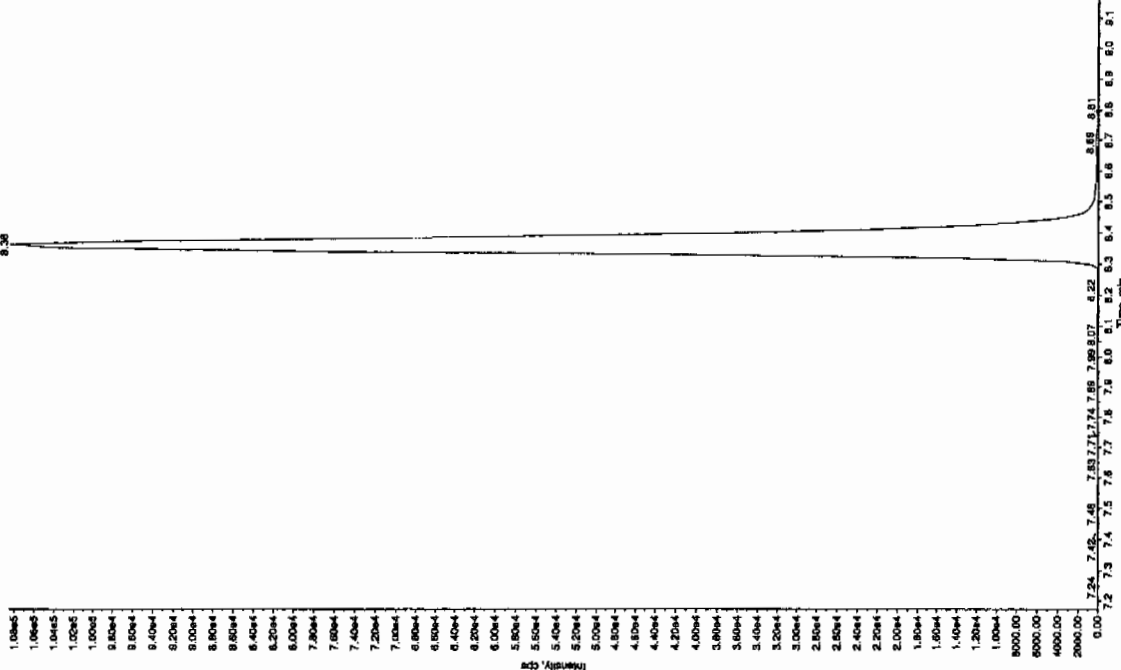
Sample Name: "24716706" Sample ID: "95719821ER" File: "EXS0220052.wit"
Peak Name: "55-Orlistat" Mass(es): "257.2204.9 amu"
Comment: "LCX83212S" Annotation: ""

File Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 4:34:24 AM
Modified: No



Sample Name: "24716706" Sample ID: "95719821ER" File: "EXS0220052.wit"
Peak Name: "55-Orlistat" Mass(es): "182.0410.0 amu"
Comment: "LCX83212S" Annotation: ""

File Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 4:34:24 AM
Modified: No



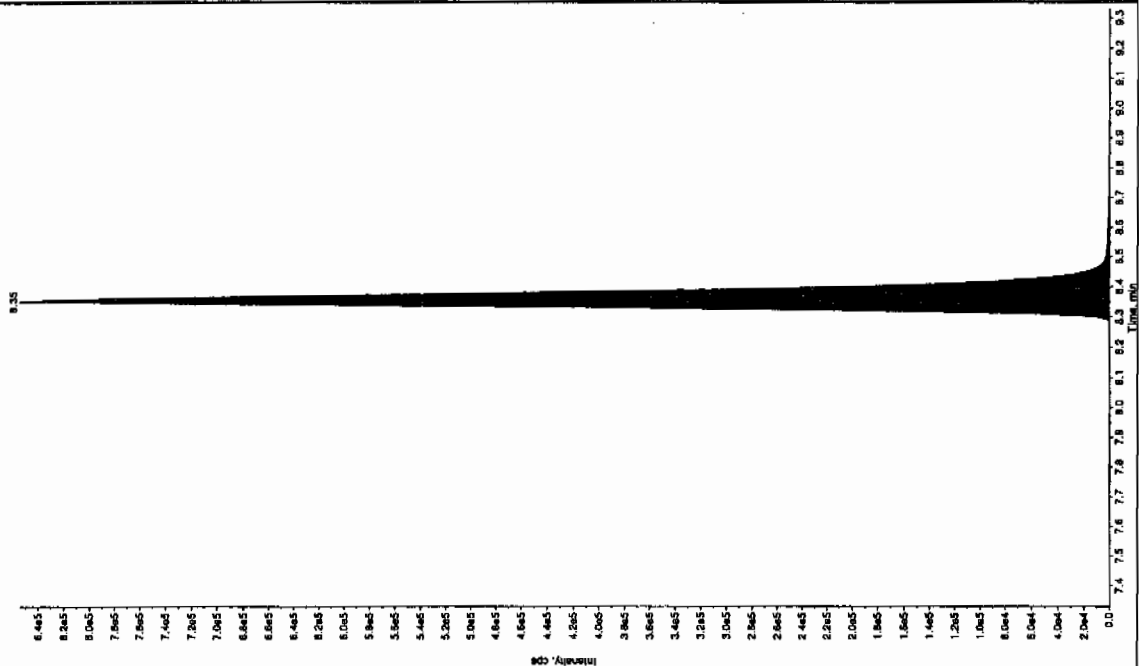
See 3/27/10

Sample Name: "24716706" Sample ID: "95719621LSP" File: "EXS020052.wif"
 Peak Name: "24-Chloro-4-nitrobenzoate" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 4:34:24 AM
 Acq. Time: 4:34:24 AM
 Modified: No

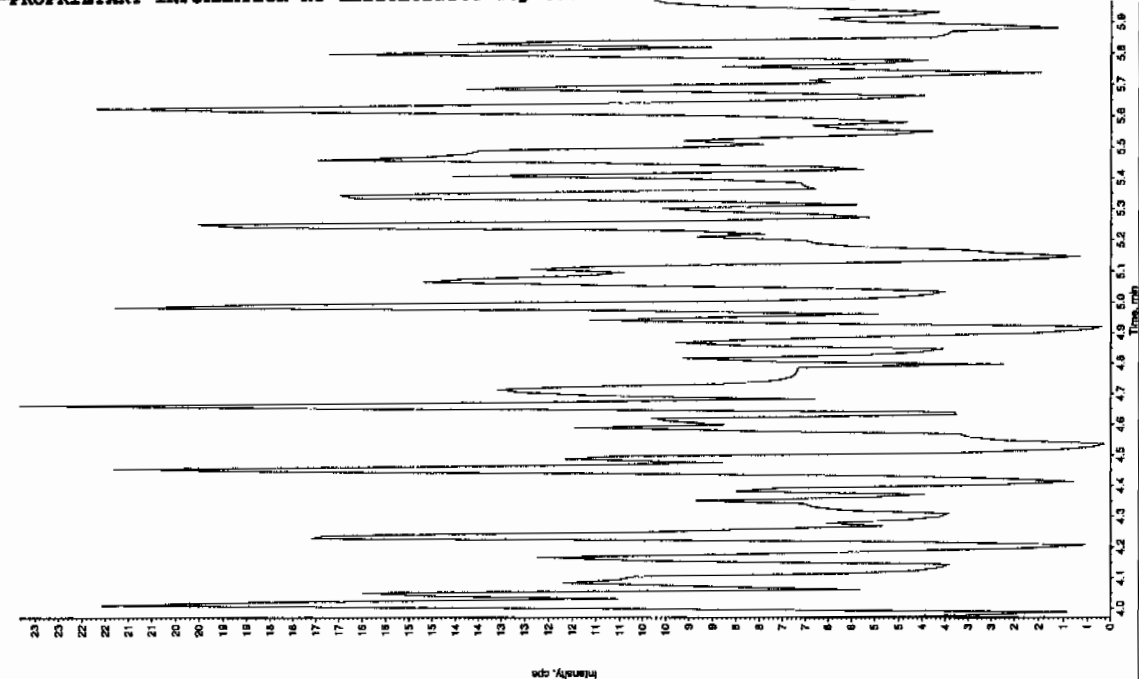
Method: No
 Algorithm: IntelliQuan - IQA
 1. Peak Height: 1460.00 cps
 1. Peak Width: 0.00 sec
 1. Peak Area: 15.0 points
 Window: 15.0 sec
 1. Peak RT: 8.33 min
 1. Relative RT: No

1. Type: Valley
 1. Retention Time: 8.35 min
 1. Count: 3.11e+006 counts
 1. S/N: 854385.803 cps
 1. RT Time: 8.23 min
 1. Time: 8.75 min



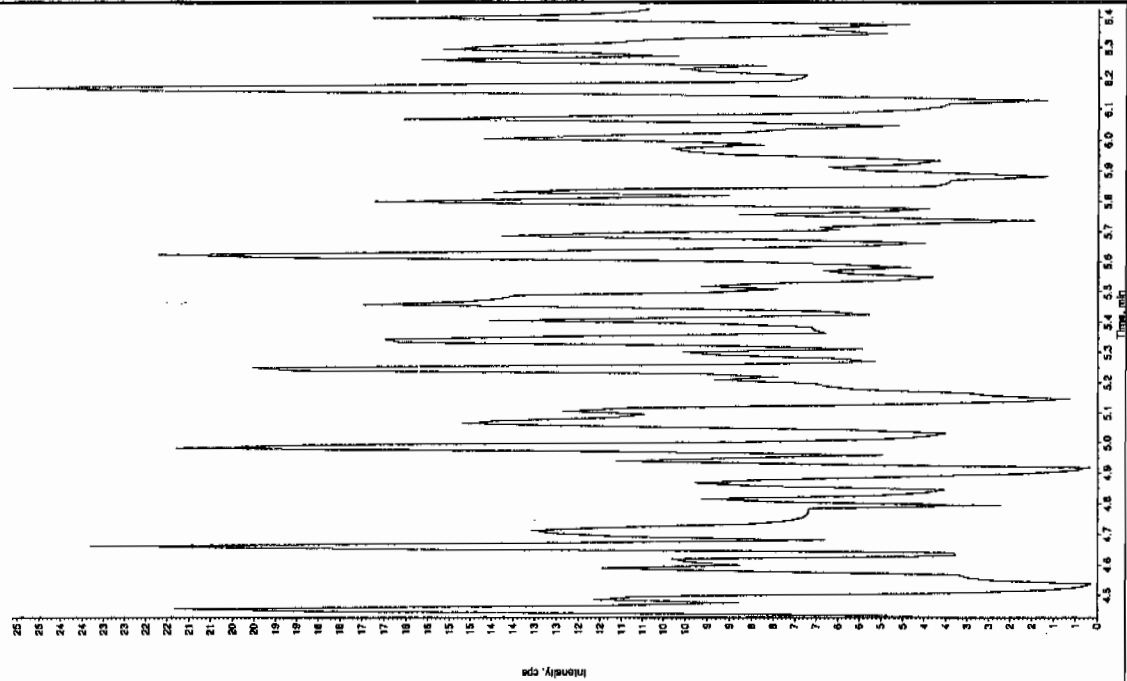
Sample Name: "24716706" Sample ID: "95719621LSP" File: "EXS020052.wif"
 Peak Name: "26-Chloro-4-nitrobenzoate" Mass(es): "185.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 4:34:24 AM
 Acq. Time: 4:34:24 AM
 Modified: No



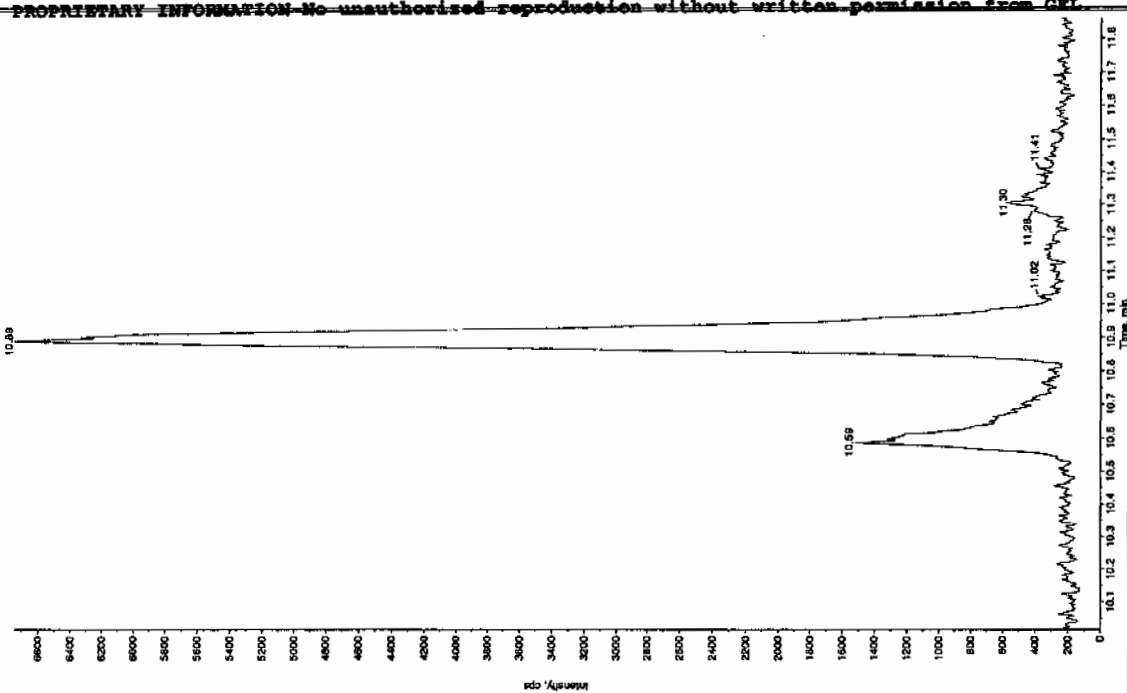
Sample Name: "247767006" Sample ID: "95719521ER" File: "EXS0320052.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:34:28 AM
 Modified: No



Sample Name: "247767006" Sample ID: "95719521ER" File: "EXS0320052.wif"
 Peak Name: "bis(o-cresyl) phosphite" Mass(es): "359.191.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:34:28 AM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8255

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412055a

Date Analyzed: 13-APR-10 18:13

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 X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412055a

Date: 13-Apr-2010

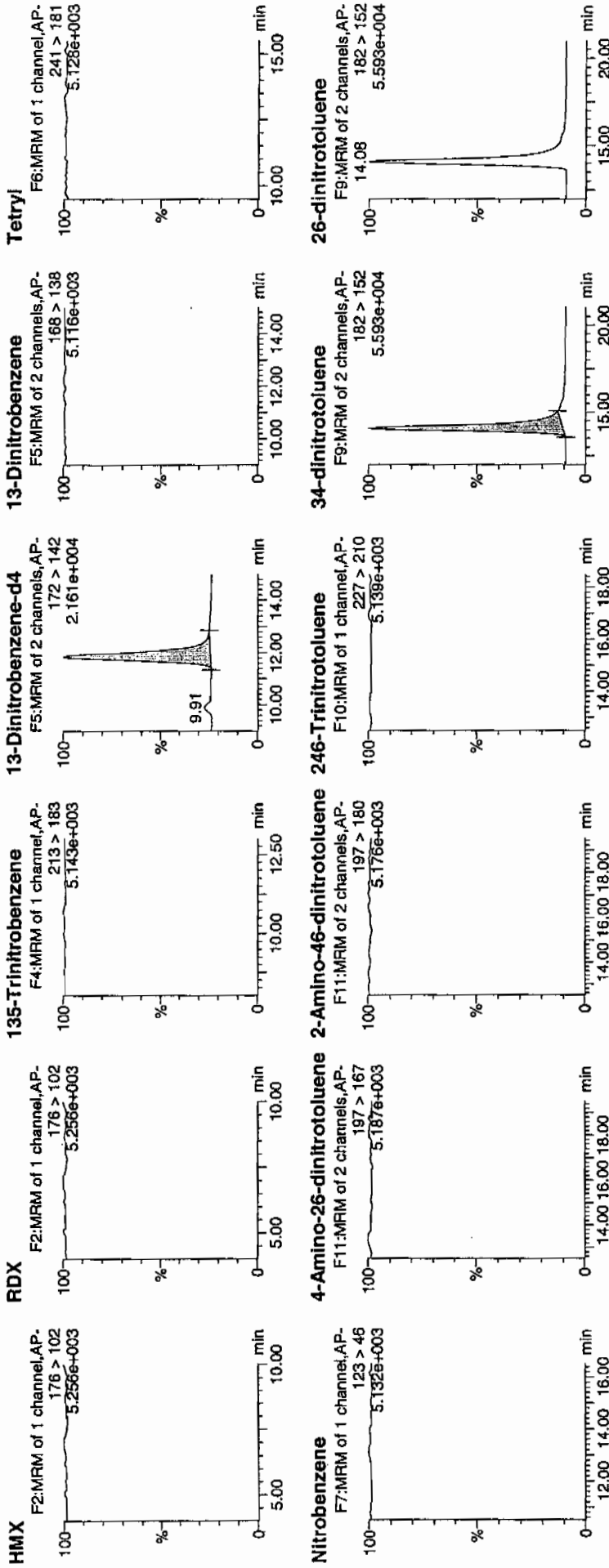
Time: 18:13:42

ID: 247767007

Vial: 2:6,E

ACT
4/14/10

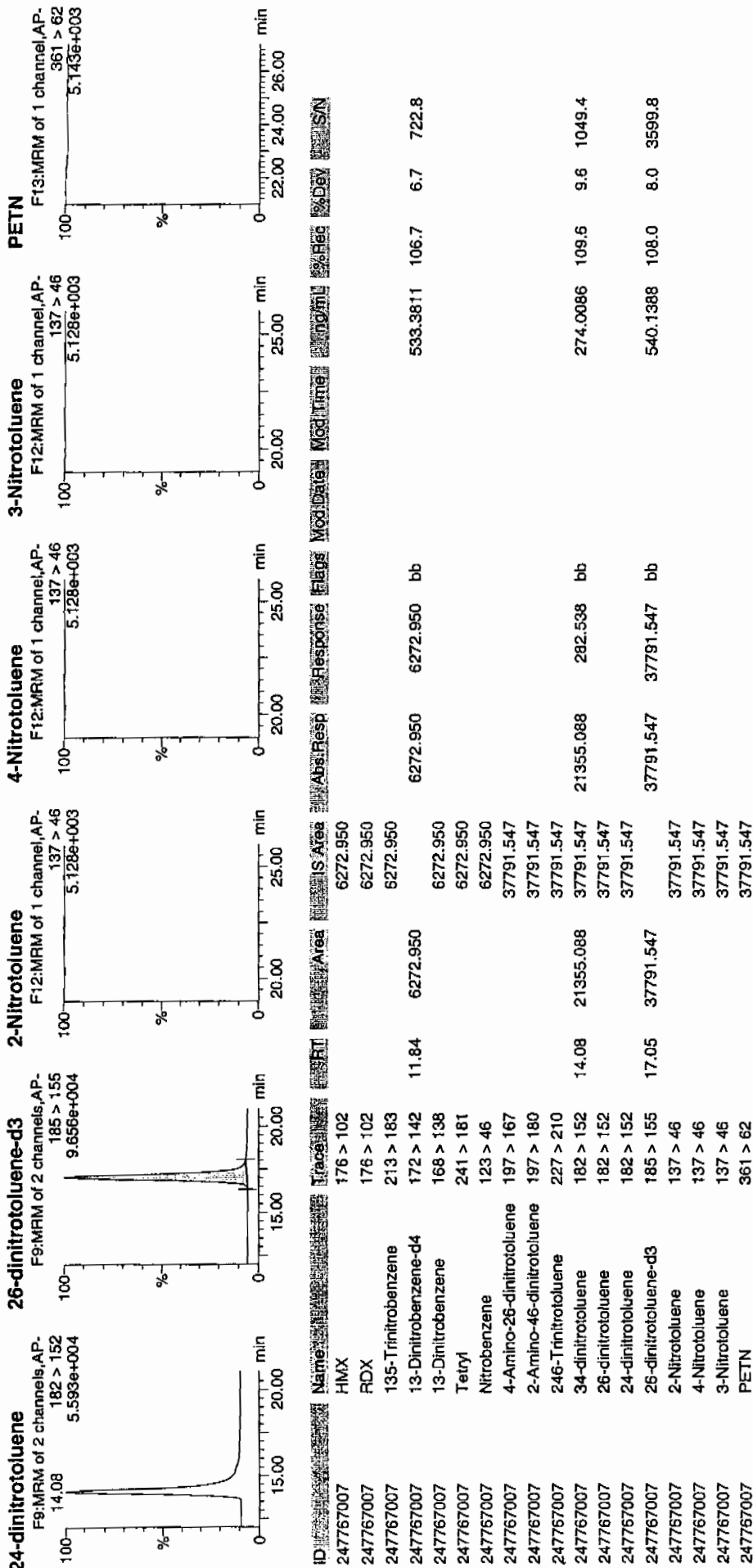
AW 957196 / 21
SOLZ



AKM
04/14/10

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8255

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220053.wiff

Date Analyzed: 23-MAR-10 04:50

Units: ug/kg

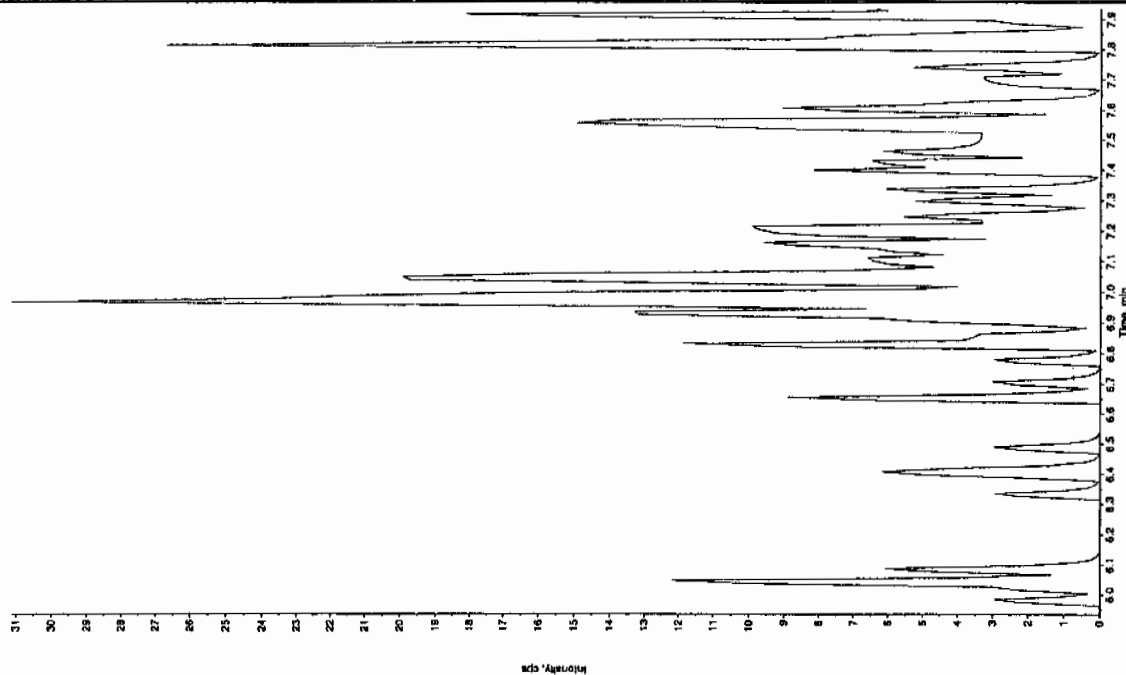
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

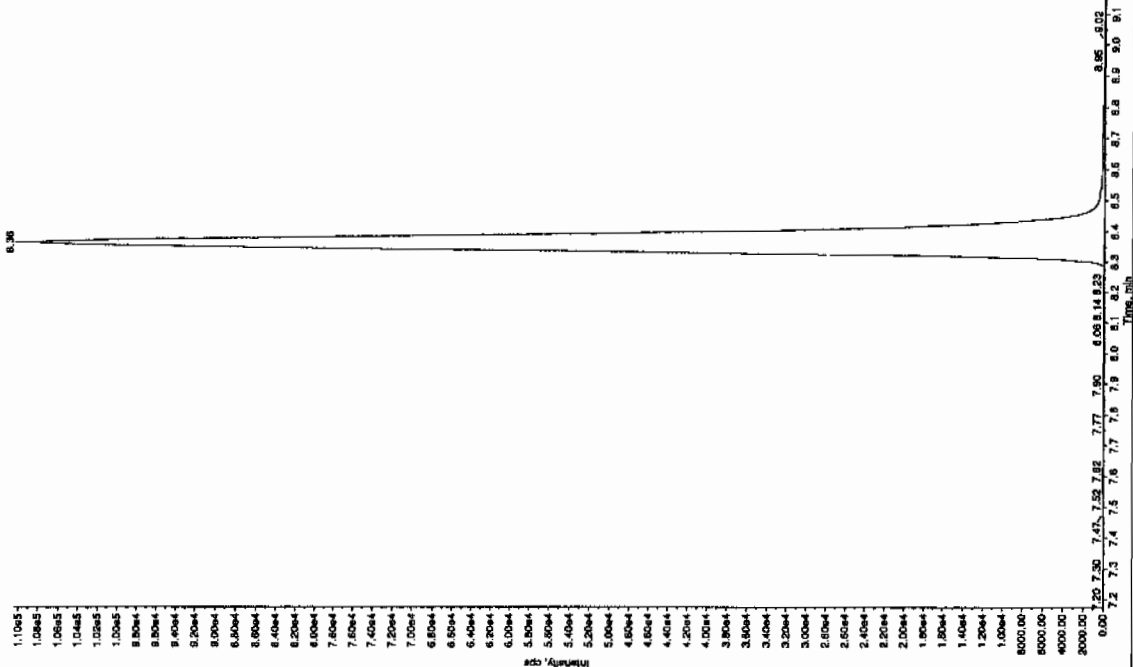
Sample Name: "247767007" Sample ID: "957196121" File: "EXS03220053.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "CX83212S" Annotation: "

Component:	TOXICOLOGICS	Altitude:	
Sample Index:	1	Unknown	
Sample Type:		N/A	
Concentration:		0.00	ng/mL
Cultured Conc:		3/23/2010	
Date:		4:50:07 AM	
Time:		No	
Identified:			



Sample Name: "24767007" Sample ID: "957196|2|LER" File: "EX503220053.wiff"
Peak Name: "35-Dinitrofluorene" Mass(es): "182.046.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	1.085
Concentration:	N/A	1.085
Calculated Conc:	0.00	1.085
Acq. Date:	3/23/2010	1.085
Acq. Time:	4:50:07 AM	1.085
Modified:	No	1.085



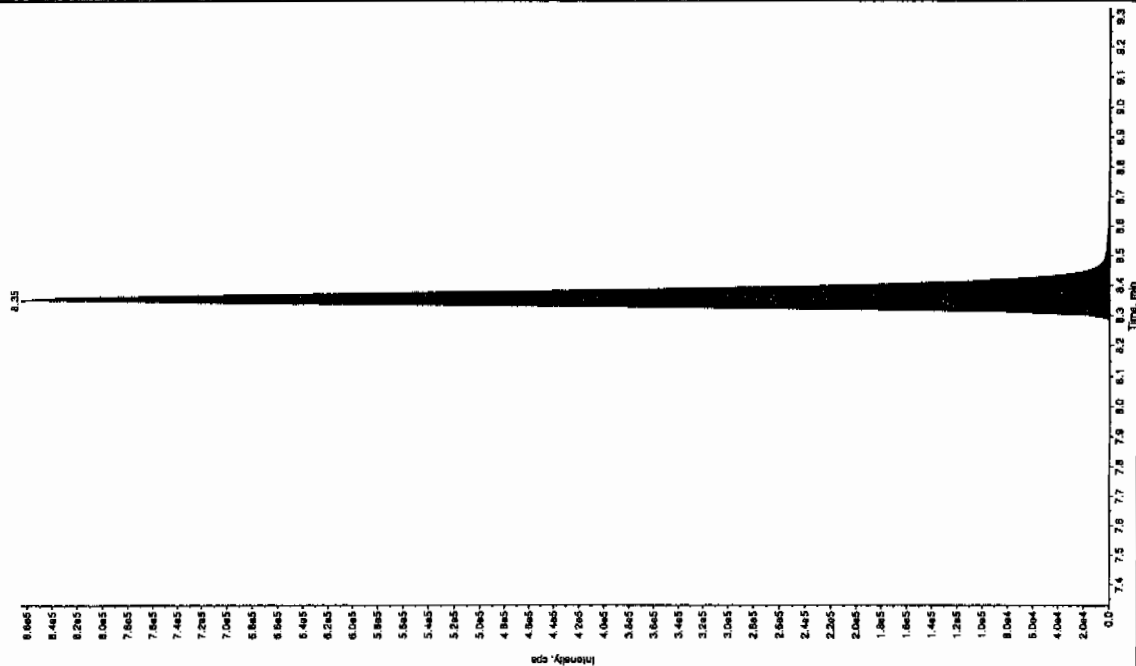
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "247767007" Sample ID: "95719821ER" File: "EXS0220053.wif"
 Peak Name: "24-Diamino-4-nitrophenol" Mass(es): "182.1/151.9 amu"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 296. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:50:07 AM

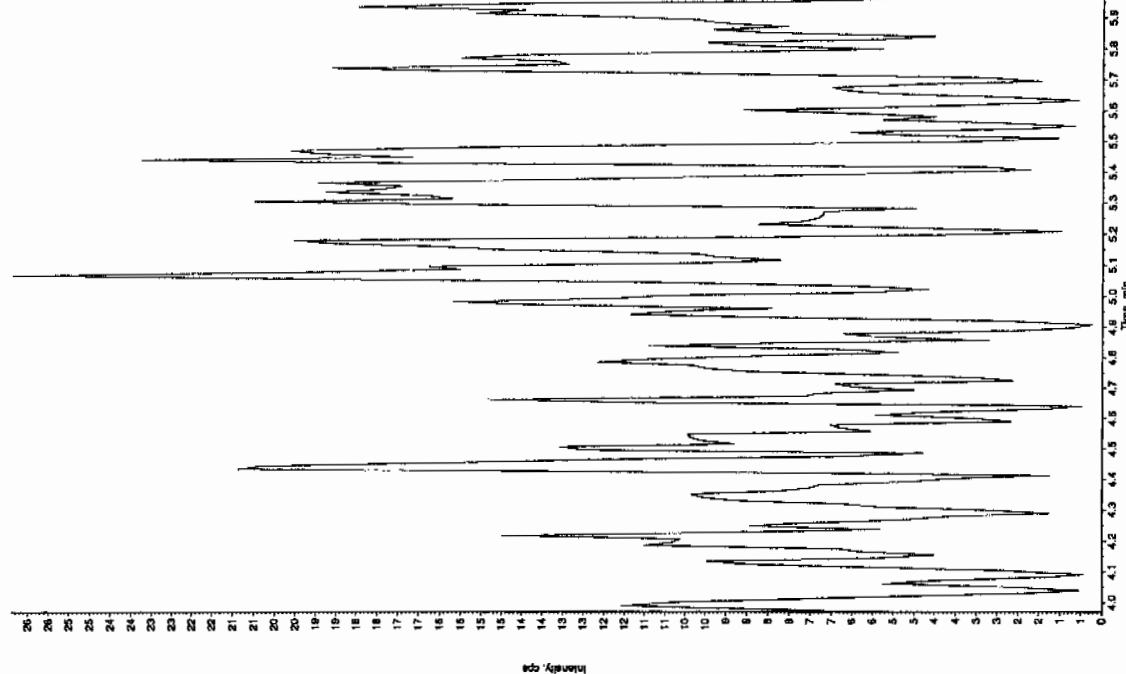
Acquisition:
 c. Algorithm: IntelliQuan - IOA
 . Peak Height: 1460.00 cps
 . Peak Width: 0.00 sec
 . Peak Width: 3.00 points
 . Window: 15.0 sec
 . Relative RT: 8.33 min
 . Relative RT: No

Integration:
 . Type: Valley
 . Retention Time: 8.35 min
 . Area: 3.21e+006 counts
 . Height: 865416.260 cps
 . Retention Time: 8.26 min
 . Retention Time: 8.75 min



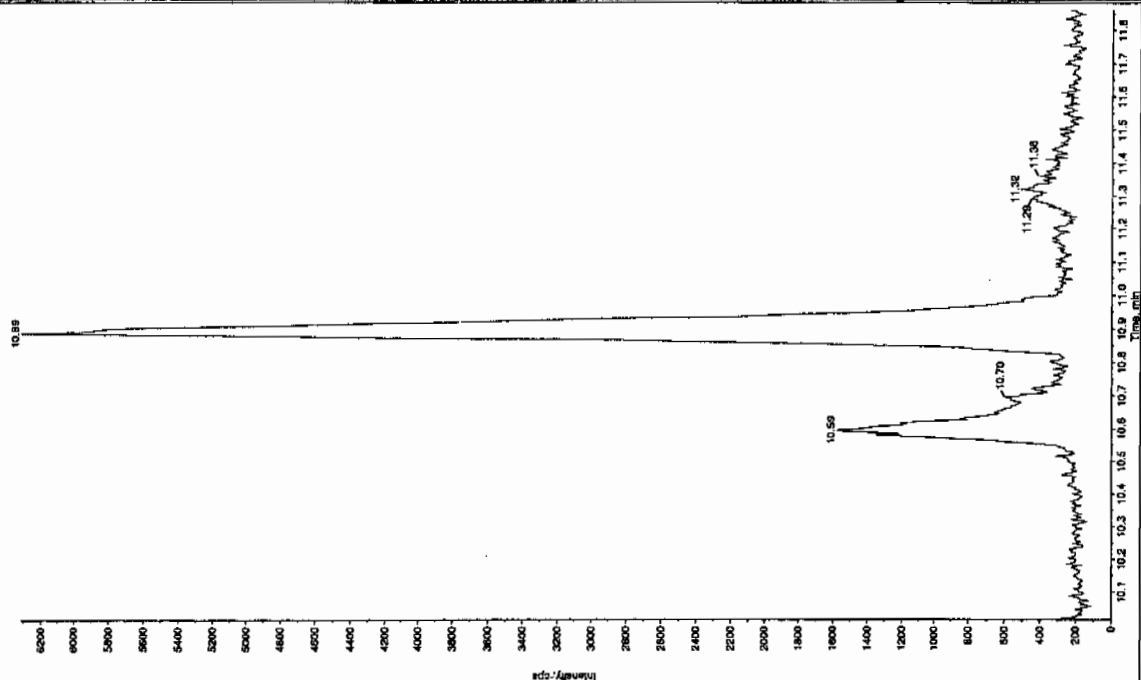
Sample Name: "247767007" Sample ID: "95719821ER" File: "EXS0220053.wif"
 Peak Name: "24-Diamino-4-nitrophenol" Mass(es): "166.0/46.0 amu"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:50:07 AM
 Modified: No



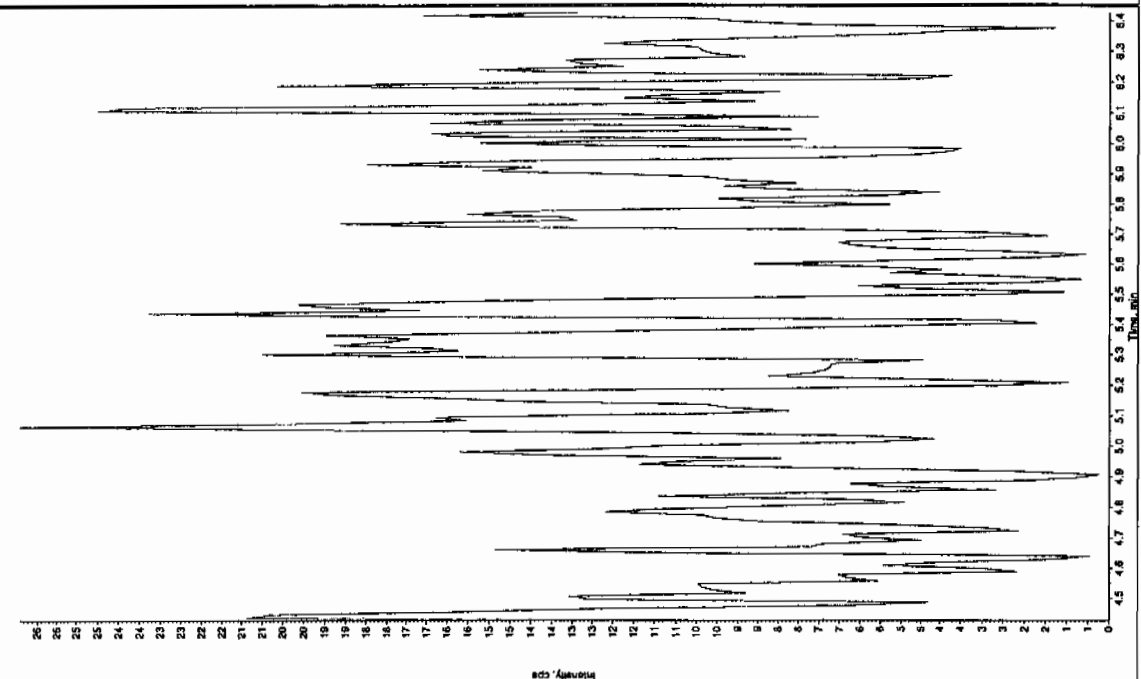
Sample Name: "247767007" Sample ID: "95719821ER" File: "EXS03220053.wit"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:50:07 AM
 Modified: No



Sample Name: "247767007" Sample ID: "95719821ER" File: "EXS03220053.wit"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:50:07 AM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8256

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767008

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412056a

Date Analyzed: 13-APR-10 18:43

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412056a

Date: 13-Apr-2010

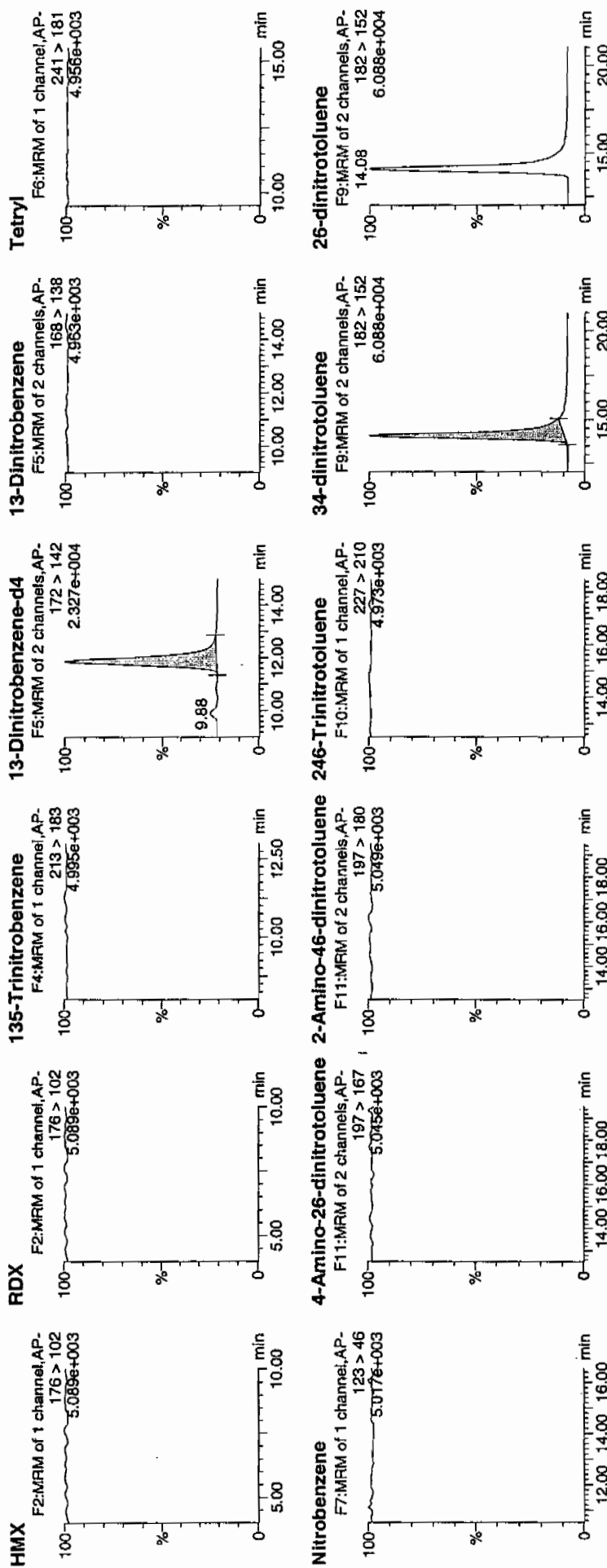
Time: 18:43:11

ID: 247767008

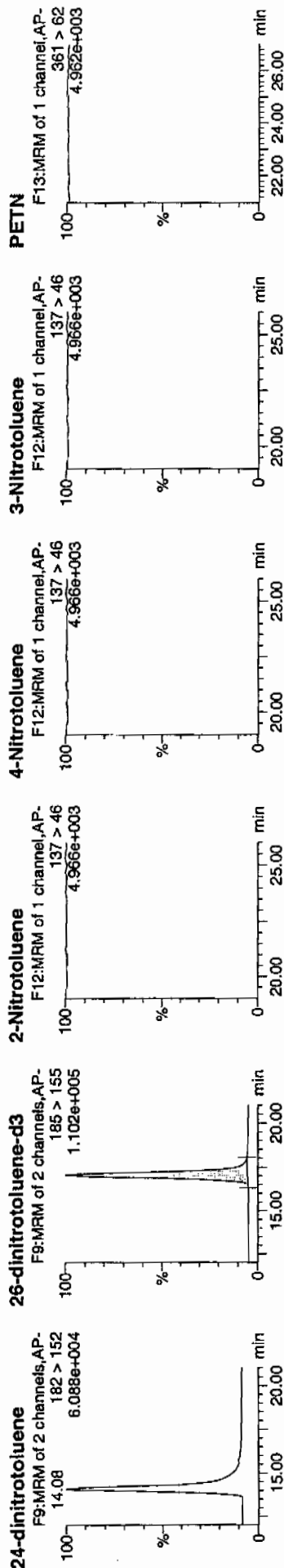
Vial: 2:6,F

AA7
4/14/10

LAU/95796 / Souz / 21



AA7
4/14/10



Name	Trace	Rt	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Total	%Rec	%Dev	TSTN
HMX	247767008	176 > 102		6874.700									
RDX	247767008	176 > 102		6874.700									
135-Trinitrobenzene	247767008	213 > 183		6874.700									
13-Dinitrobenzene-d4	247767008	172 > 142	11.87	6874.700	6874.700	6874.700	bb			584.5472	116.9	16.9	283.5
13-Dinitrobenzene	247767008	168 > 138		6874.700									
Tetryl	247767008	241 > 181		6874.700									
Nitrobenzene	247767008	123 > 46		6874.700									
4-Amino-26-dinitrotoluene	247767008	197 > 167		43249.957									
2-Amino-46-dinitrotoluene	247767008	197 > 180		43249.957									
246-Trinitrotoluene	247767008	227 > 210		43249.957									
34-dinitrotoluene	247767008	182 > 152	14.08	23290.096	23290.096	269.250	bb			261.1218	104.4	4.4	921.5
26-dinitrotoluene	247767008	182 > 152		43249.957									
24-dinitrotoluene	247767008	182 > 152		43249.957									
26-dinitrotoluene-d3	247767008	185 > 155	17.05	43249.957	43249.957	43249.957	bb			618.1536	123.6	23.6	787.6
2-Nitrotoluene	247767008	137 > 46		43249.957									
4-Nitrotoluene	247767008	137 > 46		43249.957									
3-Nitrotoluene	247767008	137 > 46		43249.957									
PETN	247767008	361 > 62		43249.957									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8256

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767008

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220054.wiff

Date Analyzed: 23-MAR-10 05:05

Units: ug/kg

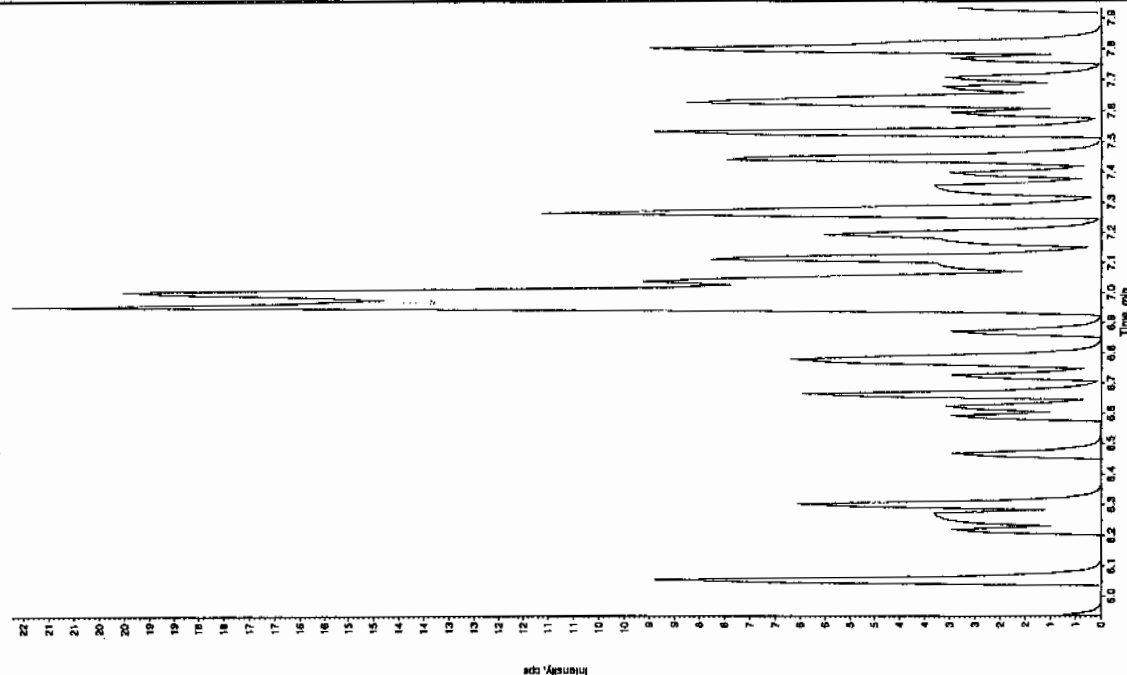
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

Sample Name: "247767008" Sample ID: "957196211.ER" File: "EXS03220054.wiff"
 Peak Name: "35-Dinitrofluorene" Mass(es): "182.045.0 amu"
 Comment: "LCX832125" Annotation: ""

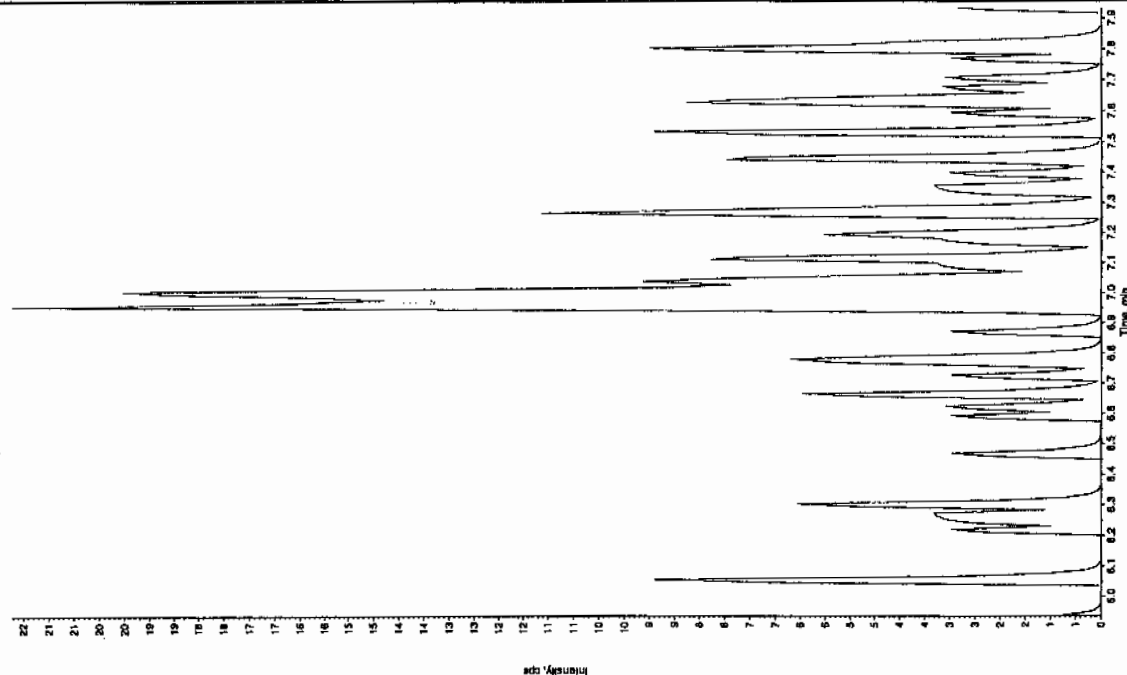
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:05:51 AM
 Modified: No



Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:05:51 AM
 Modified: No

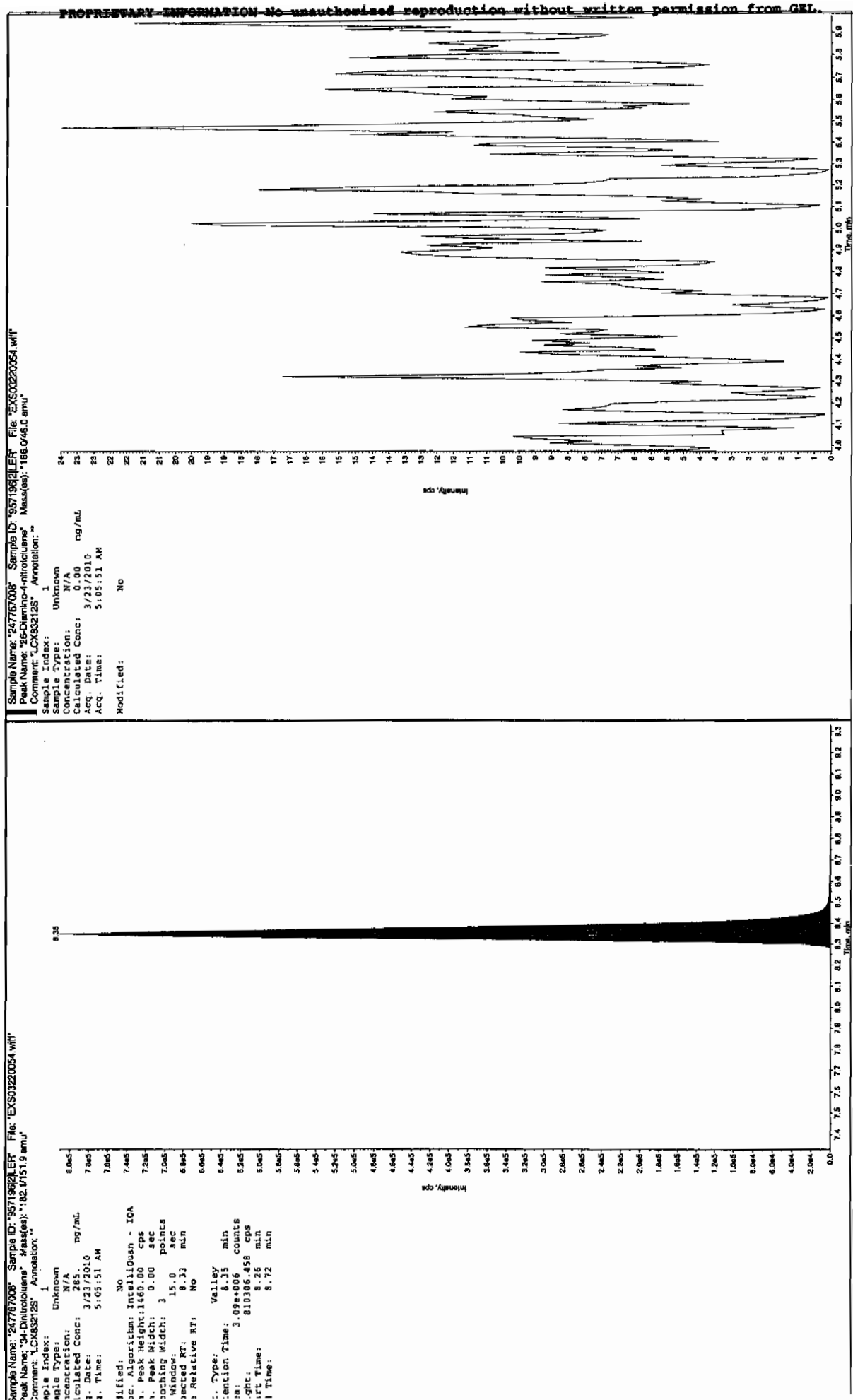
Sample Name: "247767008" Sample ID: "957196211.ER" File: "EXS03220054.wiff"
 Peak Name: "35-Dinitrofluorene" Mass(es): "182.045.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:05:51 AM
 Modified: No



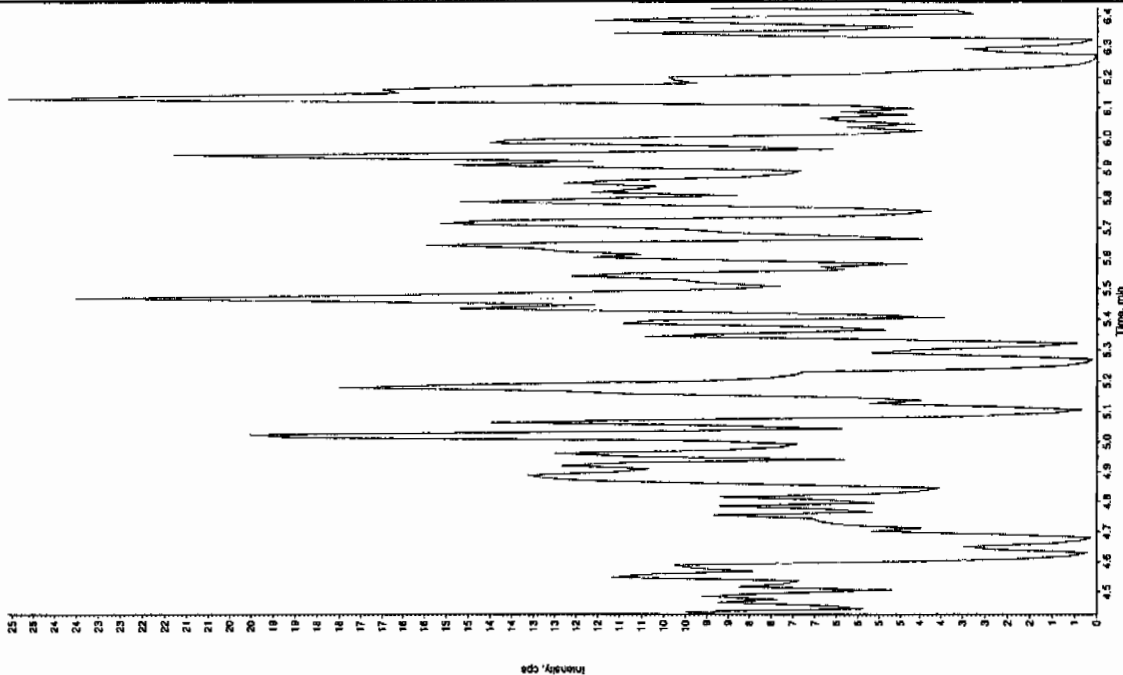
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:05:51 AM
 Modified: No

Amc 03/29/10



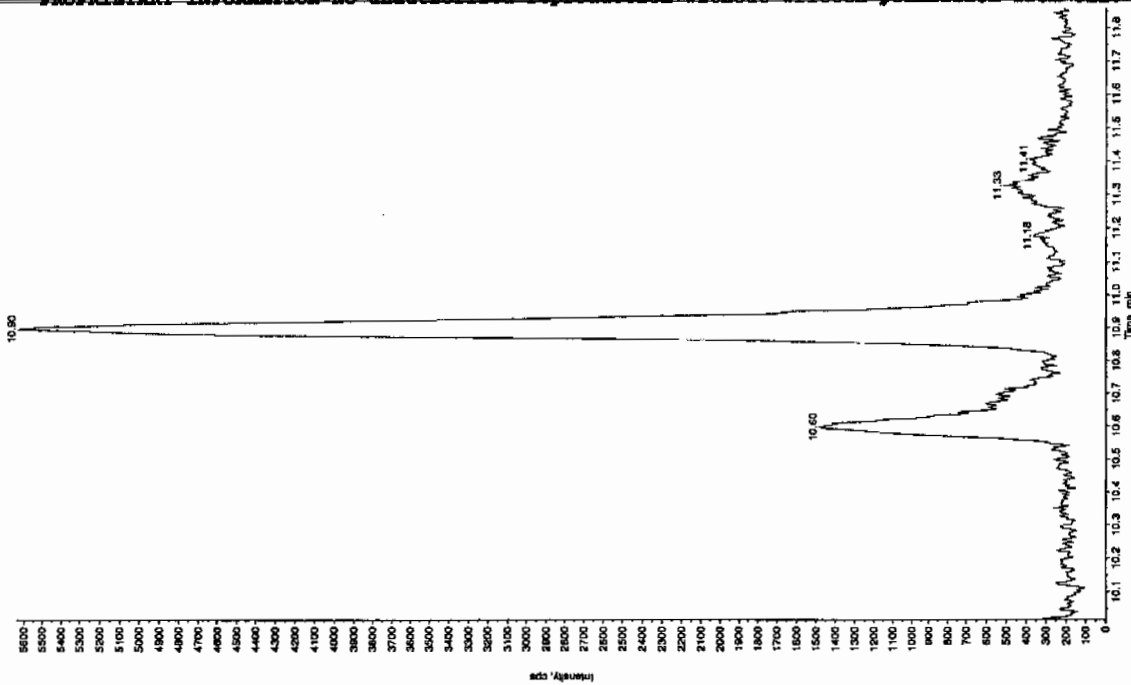
Sample Name: "247757008" Sample ID: "95719821LER" File: "EX503220054.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "155.045.0 amu"
 Comment: "LCX3212S" Annotation: "

Sample Index:
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5:05:51 AM
 Acq. Time:
 Modified: No



Sample Name: "247757008" Sample ID: "95719821LER" File: "EX503220054.wif"
 Peak Name: "1,4-bis(2,4-dinitrophenyl)phosphate" Mass(es): "366.1191.0 amu"
 Comment: "LCX3212S" Annotation: "

Sample Index:
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5:05:51 AM
 Acq. Time:
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8262

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767009

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412057a

Date Analyzed: 13-APR-10 19:12

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

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qid, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412057a

Date: 13-Apr-2010

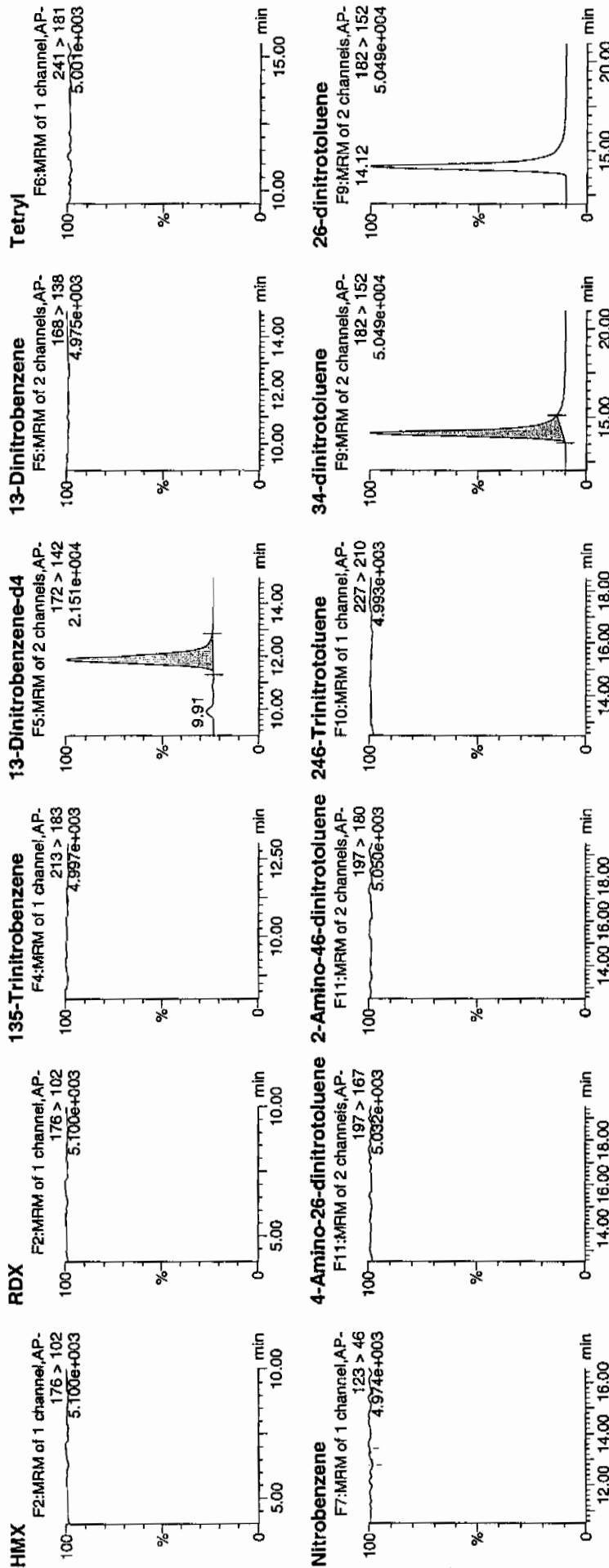
Time: 19:12:40

ID: 247767009

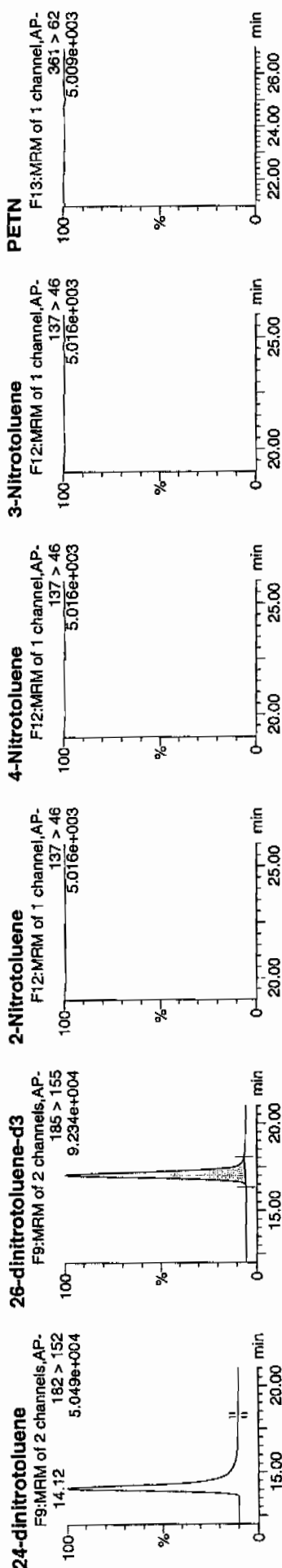
Vial: 2:7,A

100%
4/14/10

1957196 / 8000 / 2



Amine 04/14/10



Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	mg/ml	%Rec	%Dev	S/N
HMx	176 > 102			6336.638									
RDX	176 > 102			6336.638									
135-Trinitrobenzene	213 > 183			6336.638									
13-Dinitrobenzene-d4	172 > 142	11.87	6336.638		6336.638	6336.638	bb			538.7964	107.8	7.8	670.7
13-Dinitrobenzene	168 > 138			6336.638									
Tetryl	241 > 181			6336.638									
Nitrobenzene	123 > 46			6336.638									
4-Amino-26-dinitrotoluene	197 > 167			36082.043				MM-	14-Apr-10	09:02:42			
2-Amino-46-dinitrotoluene	197 > 180			36082.043									
246-Trinitrotoluene	227 > 210			36082.043									
34-dinitrotoluene	182 > 152	14.12	19139.059	36082.043	19139.059	265.216	bb			257.2095	102.9	2.9	875.2
26-dinitrotoluene	182 > 152			36082.043									
24-dinitrotoluene	182 > 152			36082.043									
26-dinitrotoluene-d3	185 > 155	17.05	36082.043		36082.043	36082.043	bb	MM-	14-Apr-10	09:15:14			
2-Nitrotoluene	137 > 46			36082.043						515.7056	103.1	3.1	1940.8
4-Nitrotoluene	137 > 46			36082.043									
3-Nitrotoluene	137 > 46			36082.043									
PETN	361 > 62			36082.043									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8262

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767009

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220055.wiff

Date Analyzed: 23-MAR-10 05:21

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

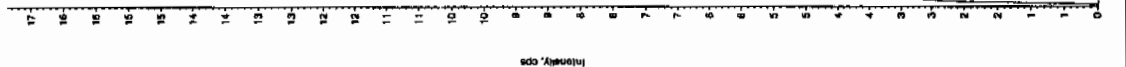
*Concentration =

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

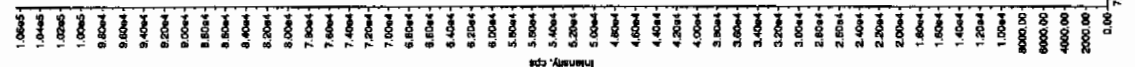
Jan 3/27/10

Sample Name: "247767008" Sample ID: "55719821.ER" File: "EXS03220055.wif"
Peak Name: "TA1B" Mass(es): "257.2204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Date: 3/23/2010
Acq. Time: 5:21:35 AM
Modified: No



Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Date: 3/23/2010
Acq. Time: 5:21:35 AM
Modified: No



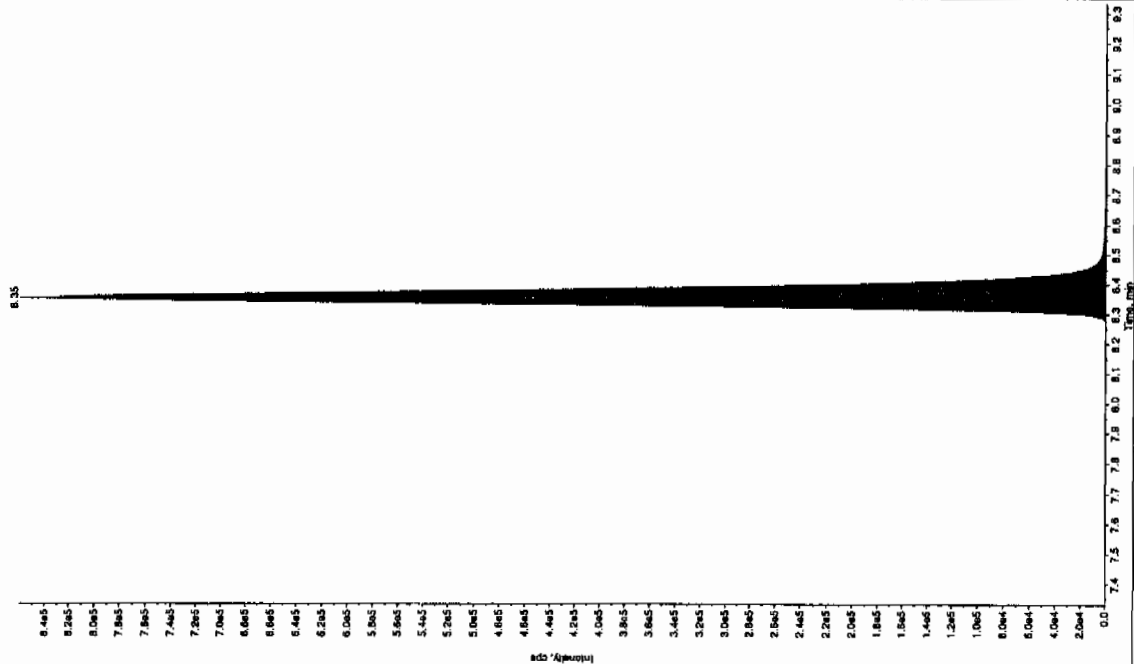
Jan 03/27/10

Sample Name: "247767009" Sample ID: "957196212" File: "EX503220055.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.17/151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 288. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:21:35 AM
 Modified: No

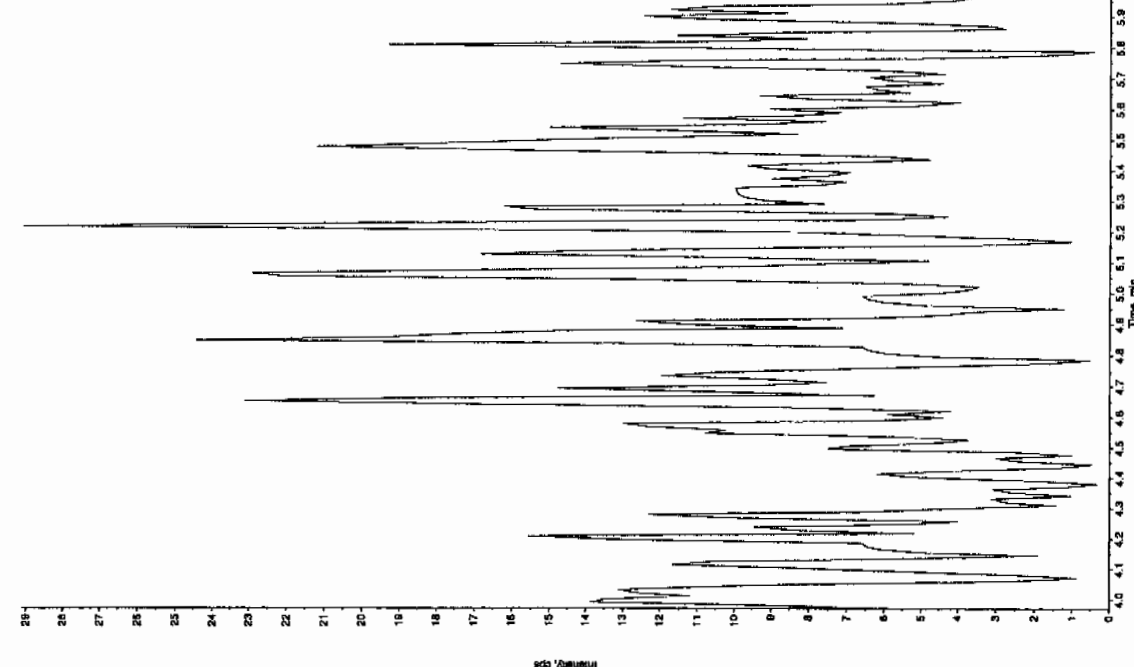
Acquisition Parameters:
 C. Acquisition: Total Ion Scan - TOA
 Peak Height: 1460.00 cps
 Peak Width: 3.00 sec
 Orbiting Width: 15.0 points
 Window: 15.0 sec
 Scaled RT: 8.33 min
 Relative RT: No

Retention Time: 8.35 min
 Abundance: 3.12e+006 counts
 ght: 859743.286 cps
 rt Time: 8.25 min
 Time: 8.70 min

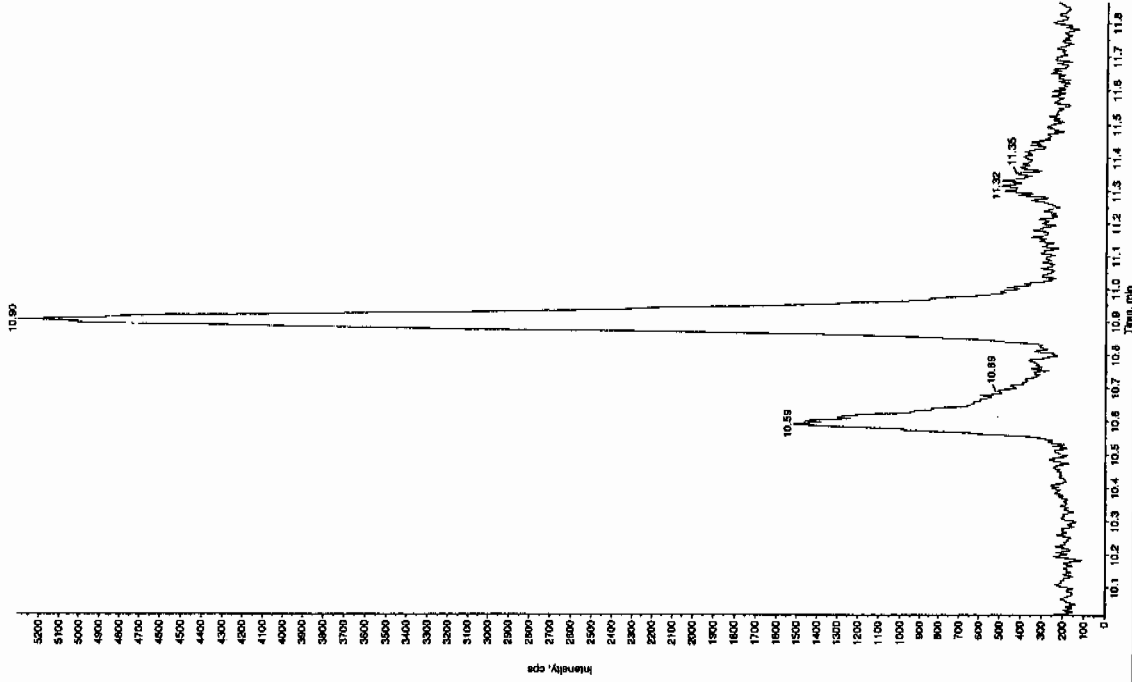


Sample Name: "247767009" Sample ID: "957196212" File: "EX503220055.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.04/6.0 amu"
 Comment: "LCX832125" Annotation: ""

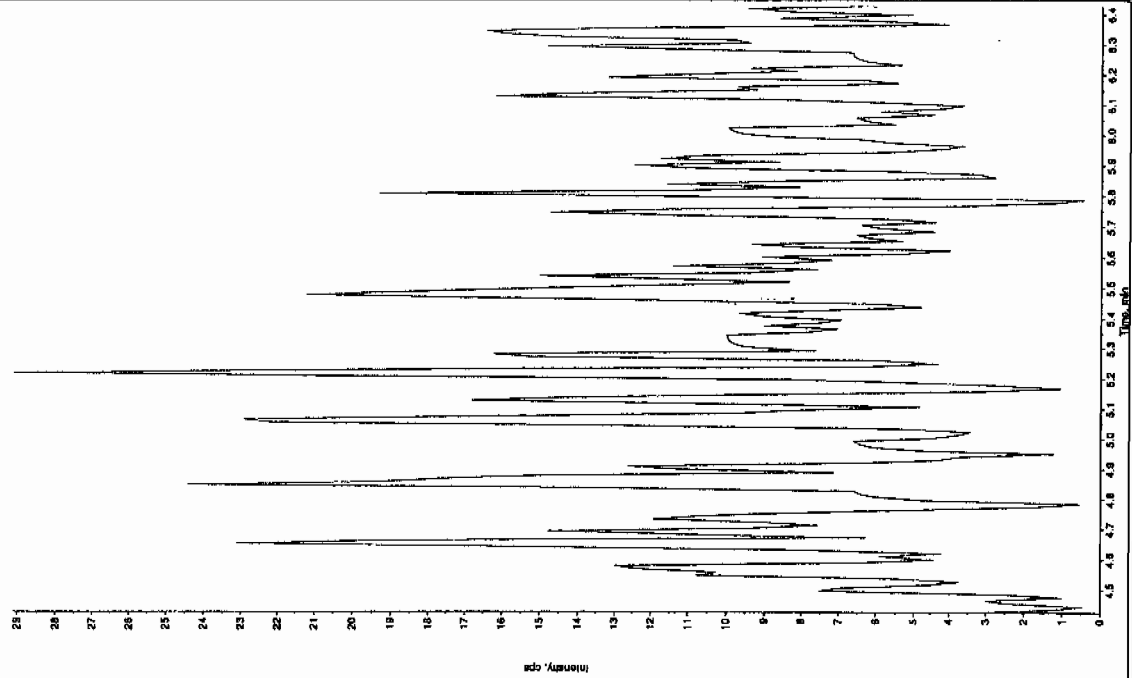
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:21:35 AM
 Modified: No



Sample Name: "247767009" Sample ID: "55719511ER" File: "EX030220055.wit"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "368.19/1.0 amu"
 Comment: "LCX83212S" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:21:35 AM
 Modified: No



Sample Name: "247767009" Sample ID: "55719511ER" File: "EX030220055.wit"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:21:35 AM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8265

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767010

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412058a

Date Analyzed: 13-APR-10 19:42

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: Wed Apr 14 09:18:04 2010, Page 39 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412058a

Date: 13-Apr-2010

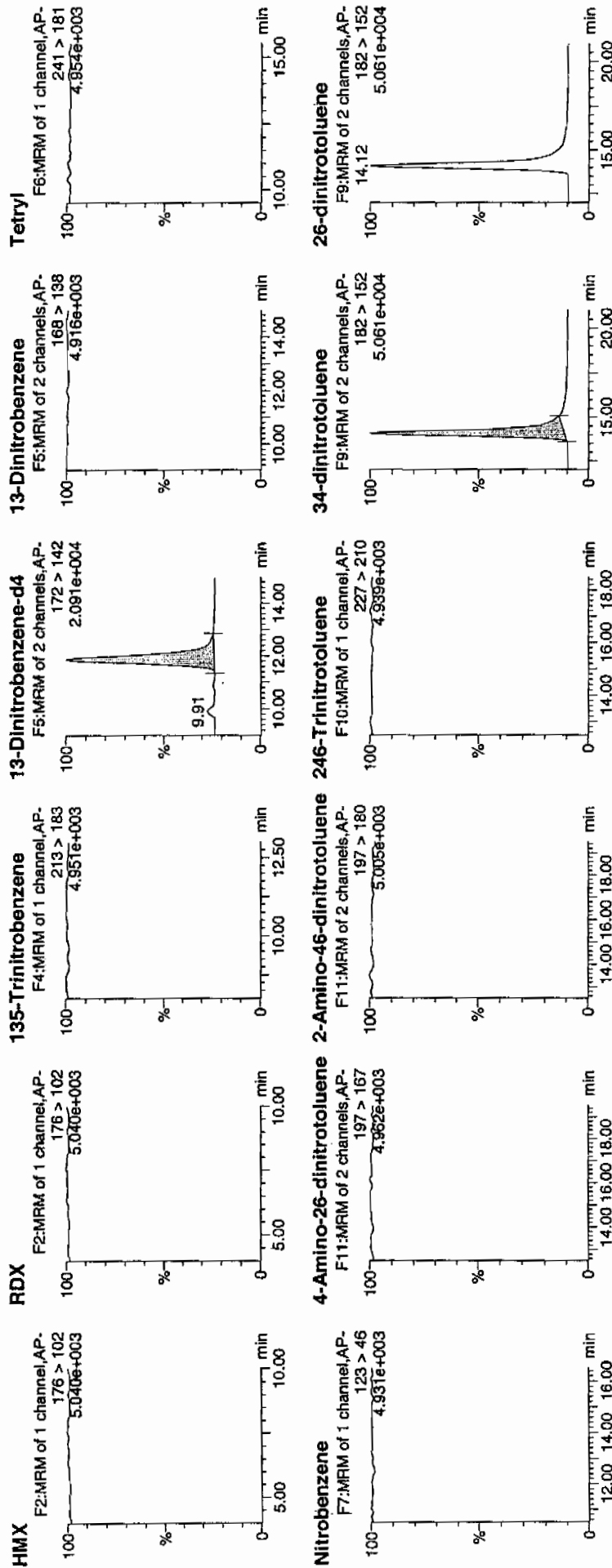
Time: 19:42:12

ID: 247767010

Vial: 2:7,B

11/17/10
4/14/10

957496 / 8022 / 21



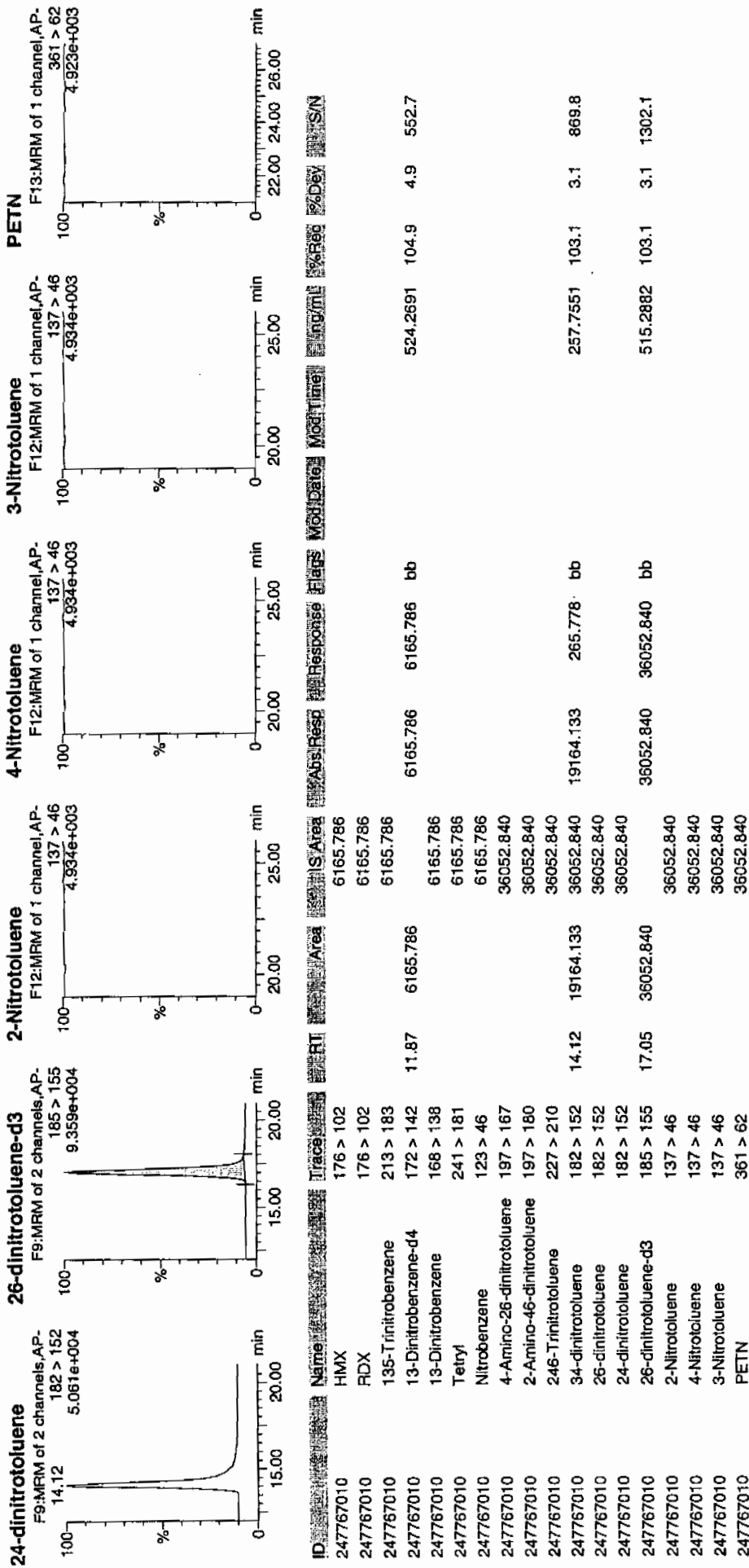
Amey
04/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 40 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8265

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767010

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220056.wiff

Date Analyzed: 23-MAR-10 05:37

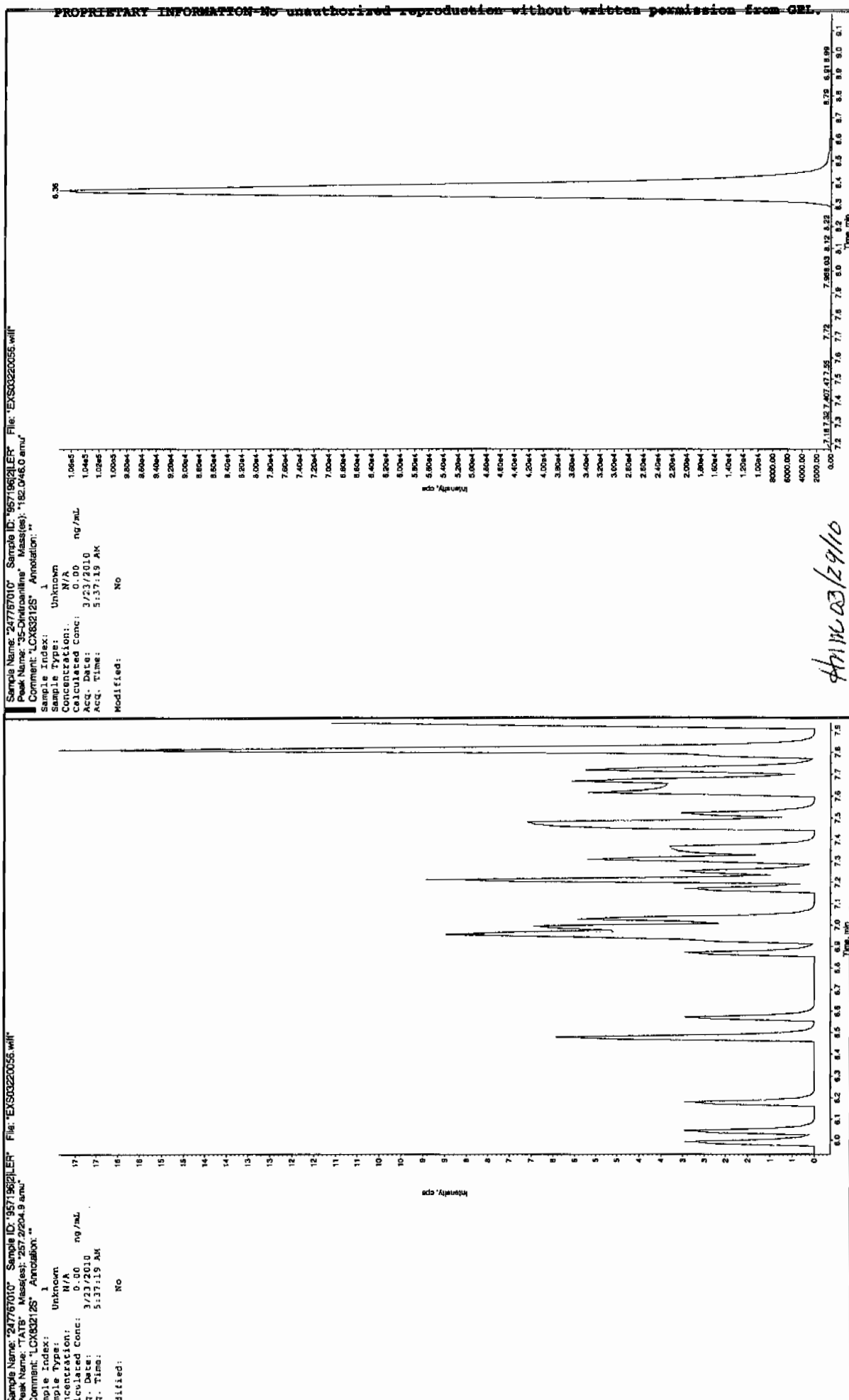
Units: ug/kg

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

Jan 3/27/10



Sample Name: 247767010 Sample ID: 95719621.ER File: EXS0220055.wil
 Peak Name: 247767010 Masses: 257.224.9 amu
 Comment: LCX83212S Annotation: " "

 Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5:37:19 AM
 Acq. Time: 5:37:19 AM
 Modified: No

Sample Name: 247767010 Sample ID: 95719621.ER File: EXS0220055.wil
 Peak Name: 247767010 Masses: 257.224.9 amu
 Comment: LCX83212S Annotation: " "

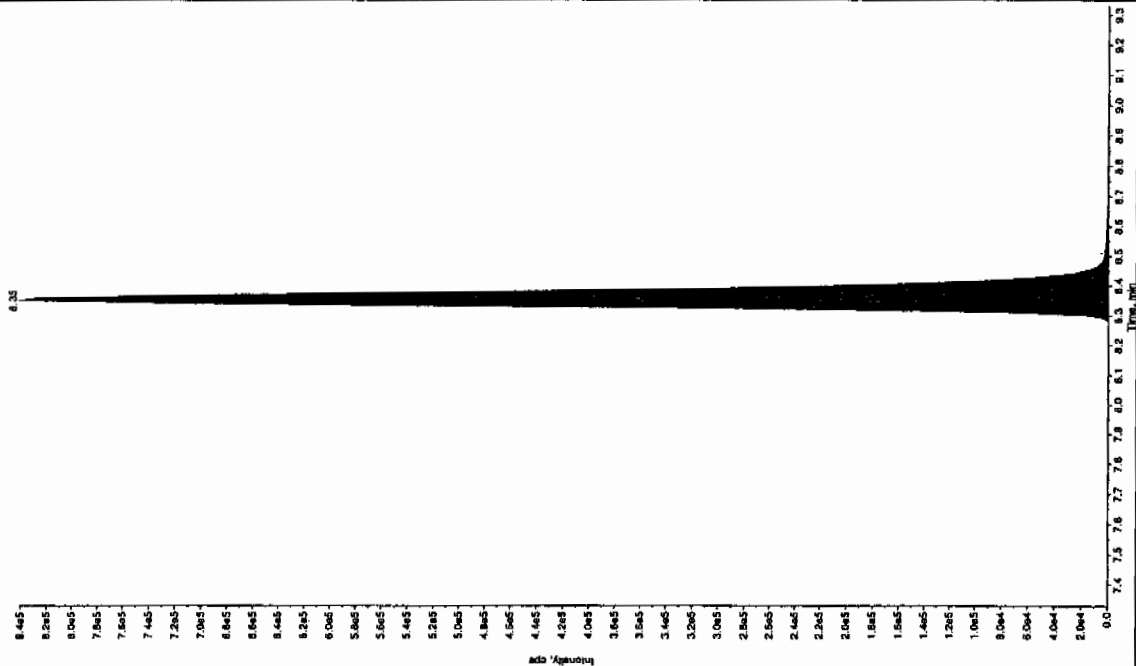
 Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5:37:19 AM
 Acq. Time: 5:37:19 AM
 Modified: No

4/1/10 03/29/10

EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

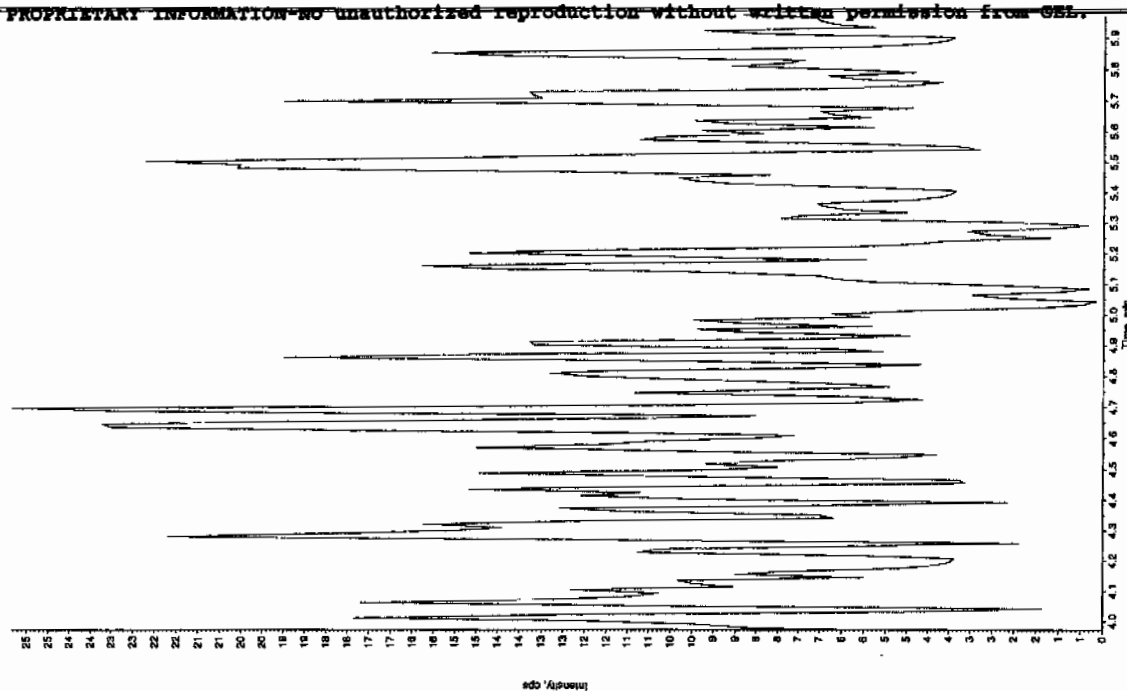
Sample Name: "247767010" Sample ID: "95719821EP" File: "EX603220055.wif"
Peak Name: "34-Ethylcyclohexyl" Mass(es): "182.1/151.9 amu"
Comment: "LCX63212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 297. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:37:19 AM
Modified: No
Ac. Algorithm: InCellQuan - IOA
n. Peak Height: 1460.00 cps
n. Peak Width: 3.00 sec
Coaching Width: 15.0 points
Peak RT: 8.33 min
e. Relative RT: No
t. Type: Valley
Retention Time: 8.35 min
ea: 3.22e+006 counts
light: 841039.001 cps
art Time: 8.23 min
d Time: 8.73 min



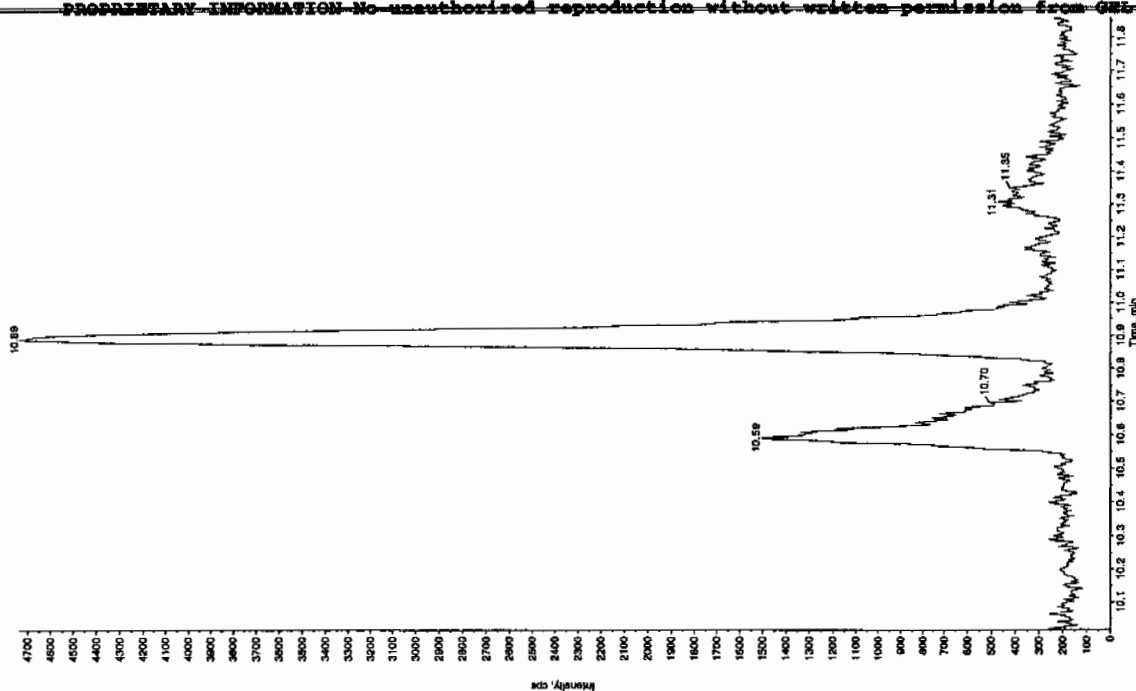
Sample Name: "247767010" Sample ID: "95719821EP" File: "EX603220055.wif"
Peak Name: "26-Diamino-4-alkene" Mass(es): "166.0/65.0 amu"
Comment: "LCX63212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:37:19 AM
Modified: No



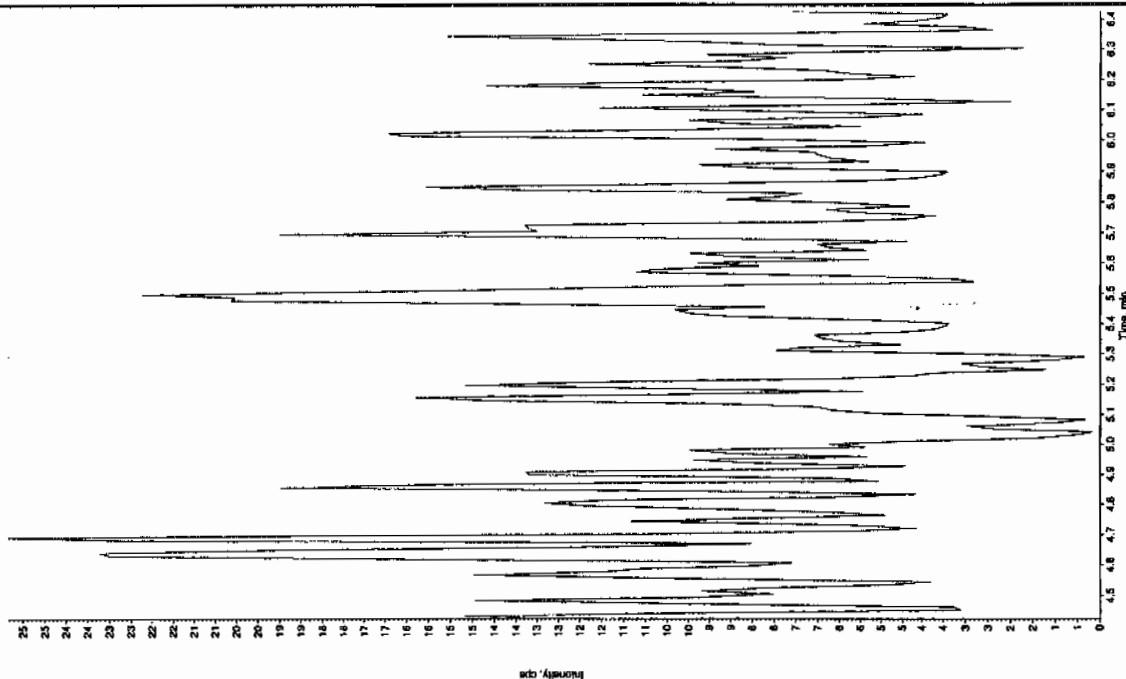
Sample Name: "247767010" Sample ID: "957196212" File: "EX50322056.wif"
 Peak Name: "tris(ocresyl) phosphates" Mass(es): "369.161.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:37:19 AM
 Modified: No



Sample Name: "247767010" Sample ID: "957196212" File: "EX50322056.wif"
 Peak Name: "24-Diamino-6-nitrothiophene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:37:19 AM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8269

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767011

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412059a

Date Analyzed: 13-APR-10 20:11

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

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0412059a

Date: 13-Apr-2010

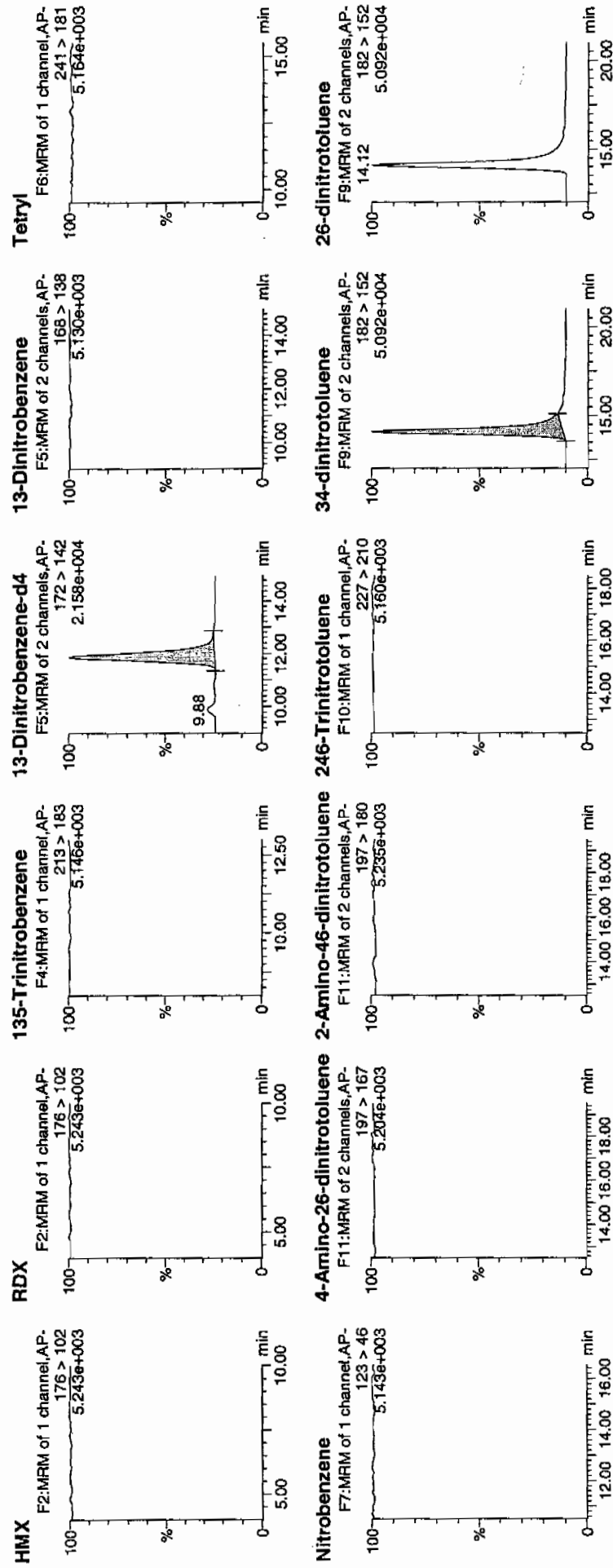
Time: 20:11:43

ID: 247767011

Vial: 2:7,C

1477
4/14/10

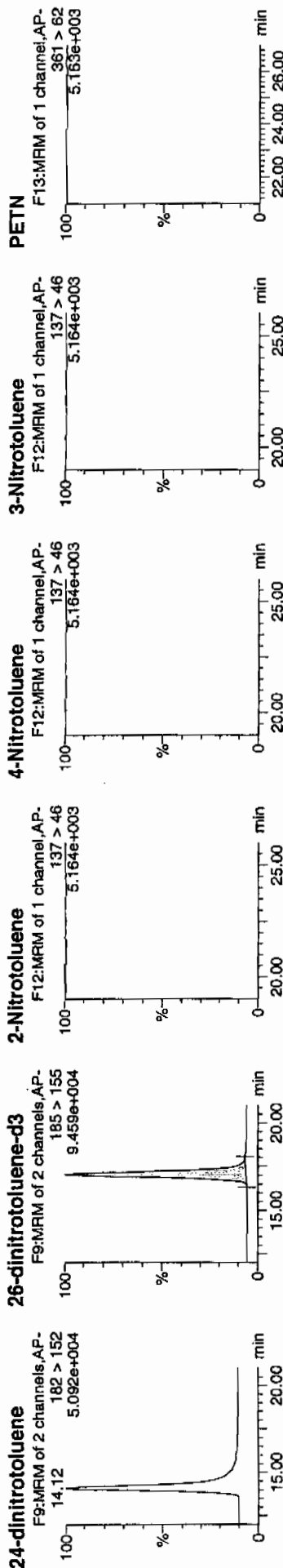
1477
4/14/10
2-1



ham
04/14/10

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

PROPRIETARY INFORMATION-No unauthorized reproduction without written permission from GEL.



Name	Trace	RT	Area	%S Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	mg/ml	%Rec	%Dev
HMX	247767011	176 > 102		6180.710								
RDX	247767011	176 > 102		6180.710								
135-Trinitrobenzene	247767011	213 > 183		6180.710								
13-Dinitrobenzene-d4	247767011	172 > 142	6180.710	11.87	6180.710	6180.710	bb			525.5381	105.1	5.1
13-Dinitrobenzene	247767011	168 > 138		6180.710								
Tetryl	247767011	241 > 181		6180.710								
Nitrobenzene	247767011	123 > 46		6180.710								
4-Amino-26-dinitrotoluene	247767011	197 > 167		36704.367								
2-Amino-46-dinitrotoluene	247767011	197 > 180		36704.367								
246-Trinitrotoluene	247767011	227 > 210		36704.367								
34-dinitrotoluene	247767011	182 > 152	19267.125	36704.367	19267.125	262.464	bb			254.5404	101.8	1.8
26-dinitrotoluene	247767011	182 > 152		36704.367								
24-dinitrotoluene	247767011	182 > 152		36704.367								
26-dinitrotoluene-d3	247767011	185 > 155	36704.367	17.05	36704.367	36704.367	bb			524.6002	104.9	4.9
2-Nitrotoluene	247767011	137 > 46		36704.367								
4-Nitrotoluene	247767011	137 > 46		36704.367								
3-Nitrotoluene	247767011	137 > 46		36704.367								
PETN	247767011	361 > 62		36704.367								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8269

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 247767011

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220057.wiff

Date Analyzed: 23-MAR-10 05:53

Units: ug/kg

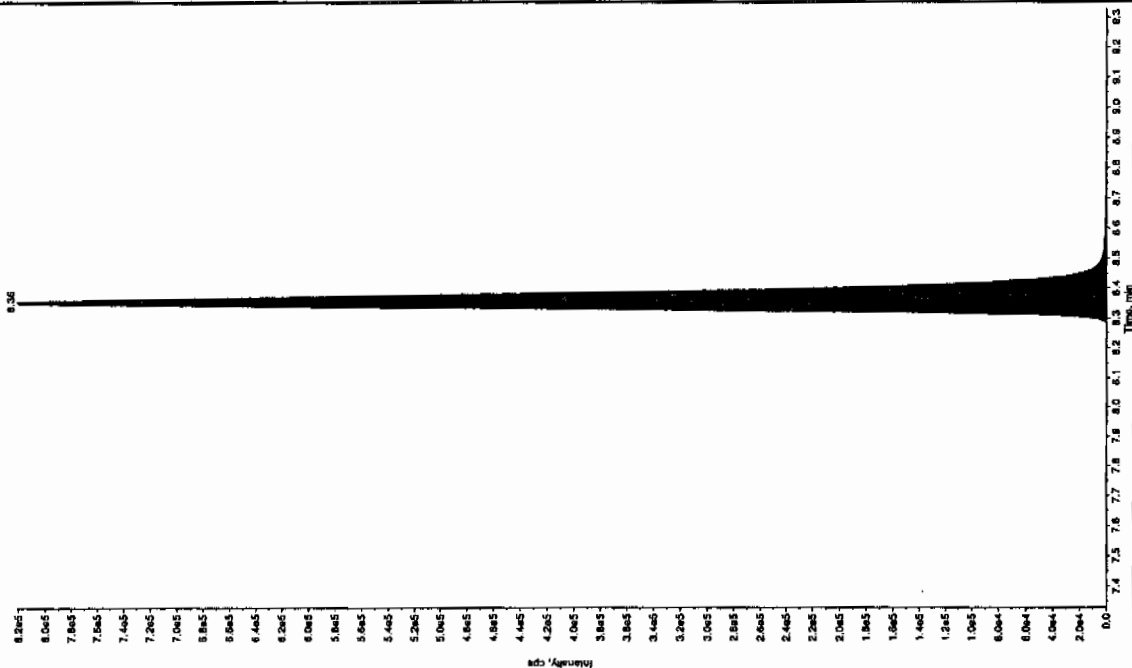
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

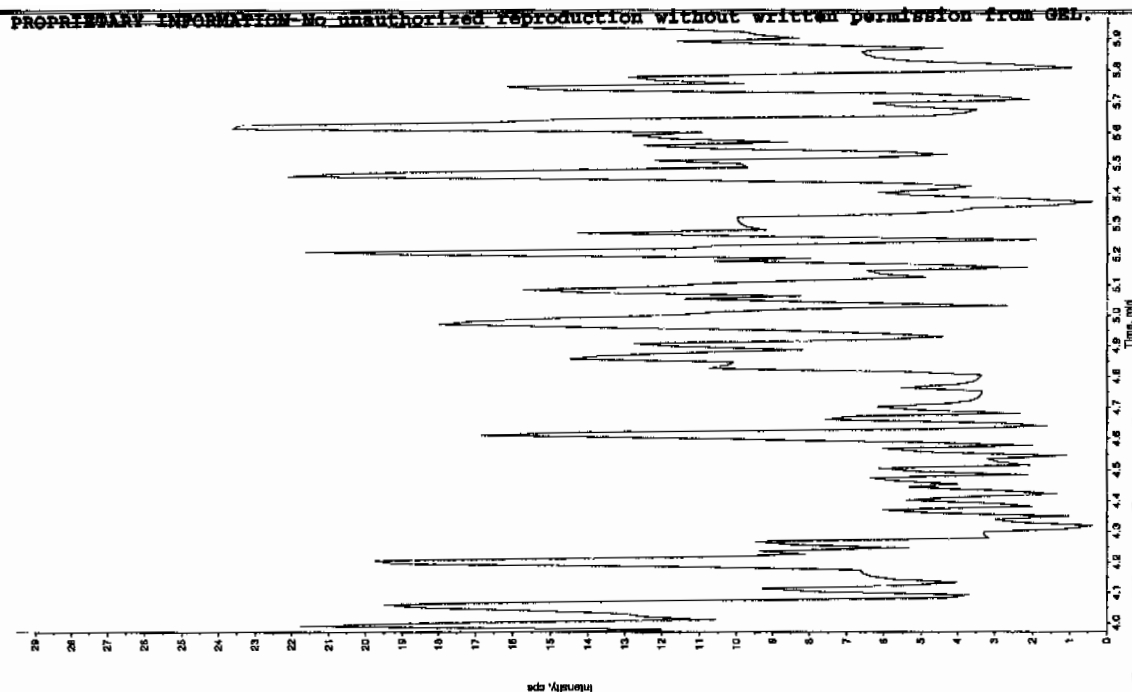
Sample Name: "247767011" Sample ID: "95719621.ER" File: "EVS0220057.wiff"
Peak Name: "247767011" Mass(es): "162.115.18 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Name: Unknown
Concentration: N/A
Calculated Conc: 287. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:53:02 AM
Modified: No
Ac. Algorithm: IntelliQuan - IOA
In. Peak Height: 1460.00 cps
In. Peak Width: 0.00 sec
Smoothing Width: 3 points
Window: 15.0 sec
Specified RT: 8.33 min
Is Relative RT: No
RT Type: Valley
Retention Time: 8.36 min
Height: 3.11e+006 counts
Start Time: 8.27 min
End Time: 8.79 min

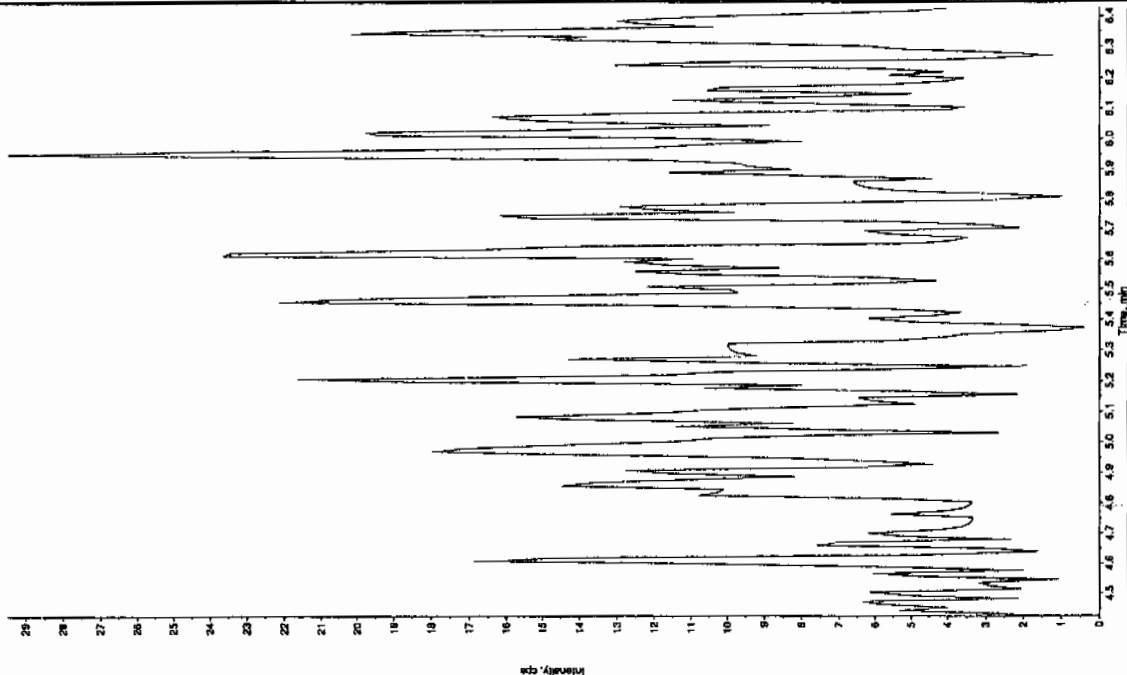


Sample Name: "247767011" Sample ID: "95719621.ER" File: "EVS0220057.wiff"
Peak Name: "247767011" Mass(es): "162.115.18 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Name: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:53:02 AM
Modified: No

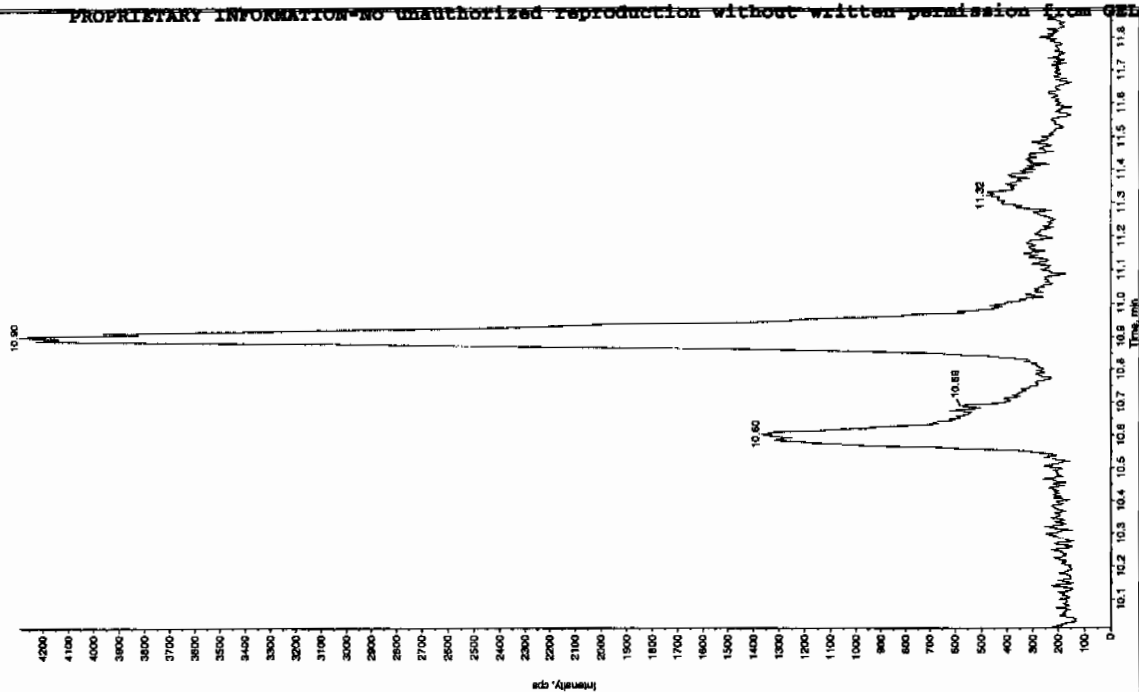


Sample Name: "247767011" Sample ID: "95719621LER" File: "EXS03220057.wif"
 Peak Name: "24-Oximin-6-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "-"
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:53:02 AM
 Modified: NO



HEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "247767011" Sample ID: "95719621LER" File: "EXS03220057.wif"
 Peak Name: "tris(o-cresyl) phosphine" Mass(es): "369.191.0 amu"
 Comment: "LCX83212S" Annotation: "-"
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:53:02 AM
 Modified: NO



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
MXN	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)

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No:

10-1972

Lab Code: GEL

Run Date:

12-APR-10 22-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column:

Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0412003a	EXP0412004a	EXP0412005a	EXP0412006a	EXP0412007a	EXP0412008a			
Data File:									
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: 10-1972

Lab Code: GEL

Run Date: 12-APR-10 22-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HP1.C 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 (<0.990)

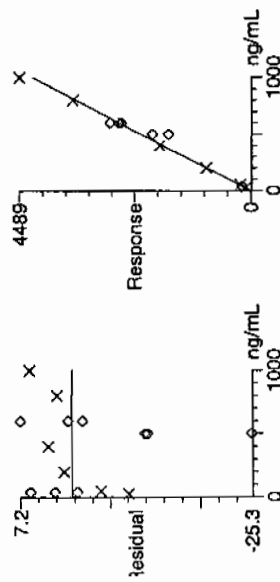
* Values outside of QC Limit

Quantify Calibration Report
 iEL Laboratories, LLC / Analyst: Michael A. Penny

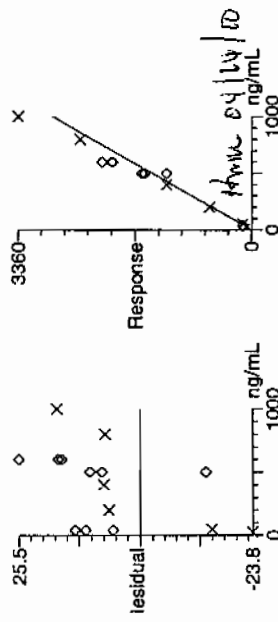
Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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
 RF SD: 0.218263, % Relative SD: 5.14933
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



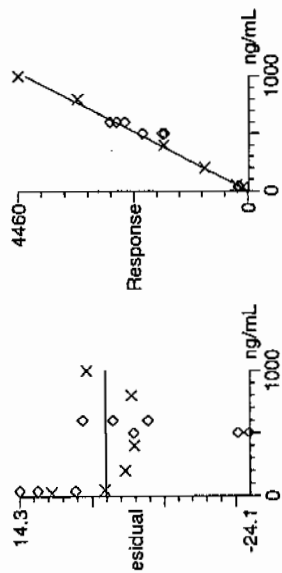
Compound name: RDX
 Response Factor: 2.8622
 RF SD: 0.454164, % Relative SD: 15.8676
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



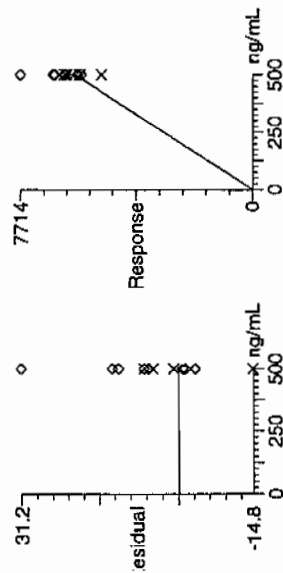
Quantify Calibration Report
EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 135-Trinitrobenzene
Response Factor: 4.32298
RF SD: 0.230915, % Relative SD: 5.34157
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

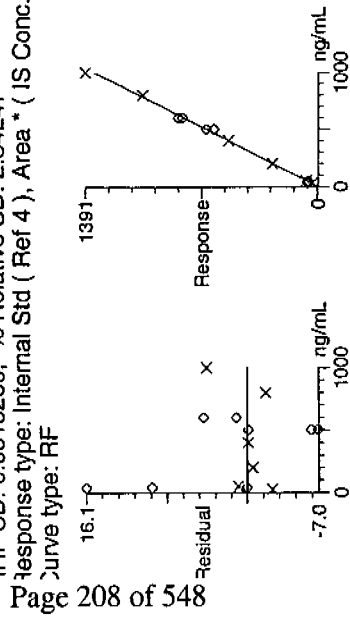


Compound name: 13-Dinitrobenzene-d4
Response Factor: 11.7607
RF SD: 0.940441, % Relative SD: 7.99645
Response type: External Std, Area
Curve type: RF

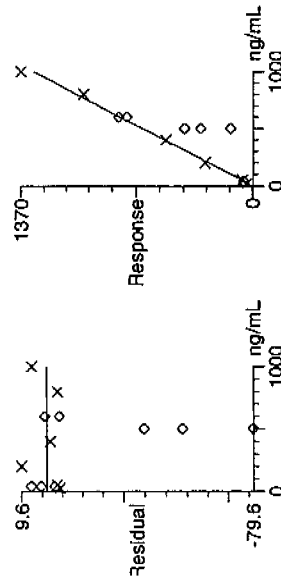


Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.33707
RF 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
RF SD: 0.0803478, % Relative SD: 6.19837
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Quantify Calibration Report

iEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

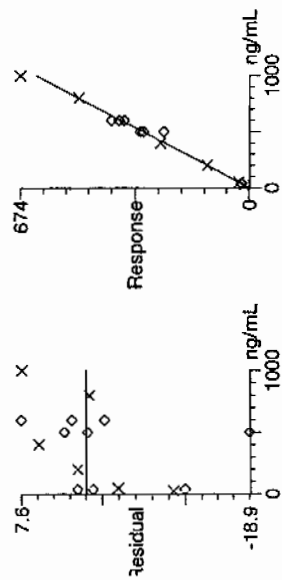
Compound name: Nitrobenzene

Response Factor: 0.627297

RF SD: 0.0397666, % Relative SD: 6.33936

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



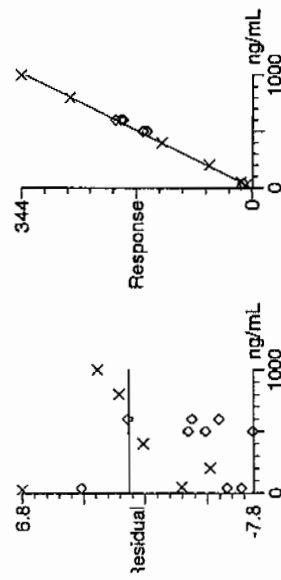
Compound name: 4-Amino-26-dinitrotoluene

Response Factor: 0.337763

RF SD: 0.014254, % Relative SD: 4.22013

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF



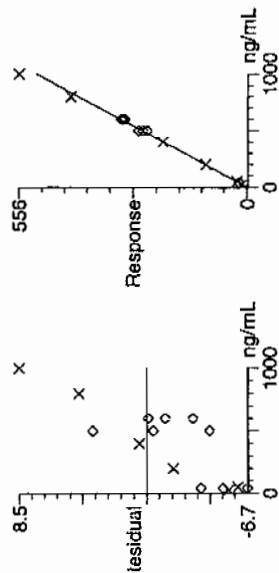
Quantify Calibration Report

EL Laboratories, LLC / Analyst : Michael A. Penny

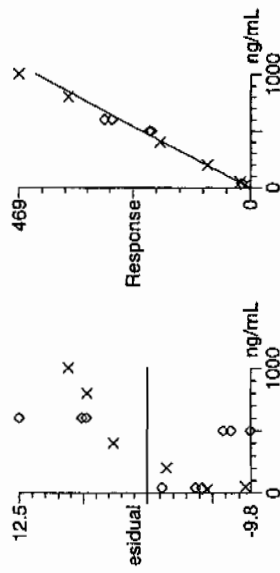
Printed: Tue Apr 13 11:14:26 2010, Page 5 of 9

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.512197
 RF SD: 0.0291218, % Relative SD: 5.68567
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



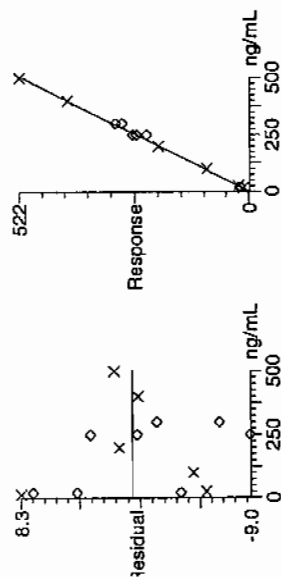
Compound name: 246-Trinitrotoluene
 Response Factor: 0.435033
 RF SD: 0.0293746, % Relative SD: 6.75226
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



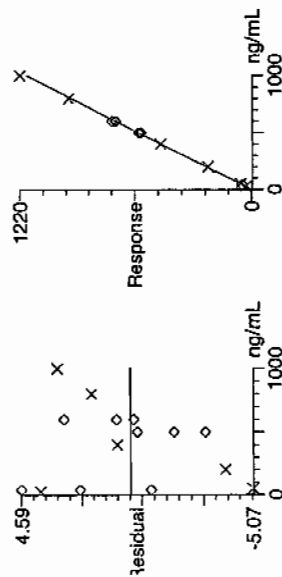
Quantify Calibration Report
 iEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp_PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 34-dinitrotoluene
 Response Factor: 1.03113
 RF SD: 0.0513762, % Relative SD: 4.98253
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



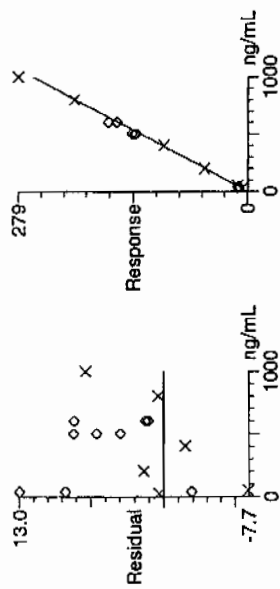
Compound name: 26-dinitrotoluene
 Response Factor: 1.18354
 RF SD: 0.0435946, % Relative SD: 3.68342
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



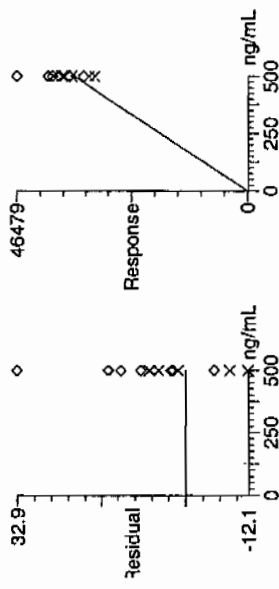
Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 24-dinitrotoluene
 Response Factor: 0.261004
 RF SD: 0.0124888, % Relative SD: 4.7849
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



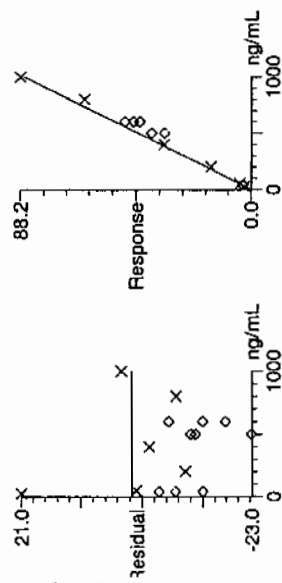
Compound name: 26-dinitrotoluene-d3
 Response Factor: 69.9664
 RF SD: 5.81467, % Relative SD: 8.31066
 Response type: External Std, Area
 Curve type: RF



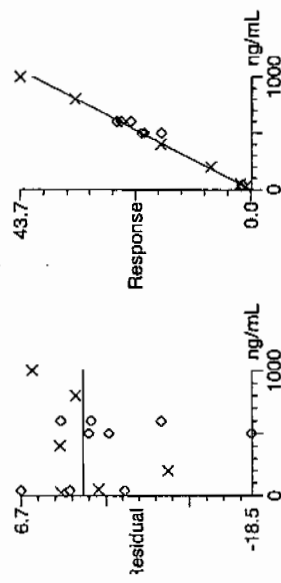
Quantify Calibration Report
JEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qtd, Time: Tue Apr 13 11:12:22 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.0865882
IRF SD: 0.00974436, % Relative SD: 11.2537
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



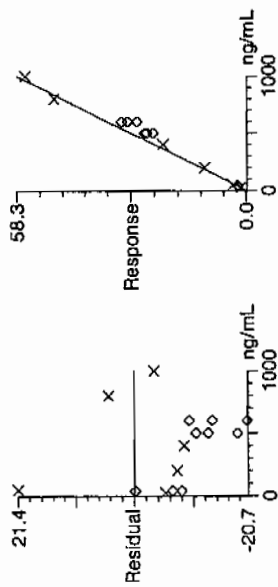
Compound name: 4-Nitrotoluene
Response Factor: 0.0414794
IRF SD: 0.00215463, % Relative SD: 5.19445
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



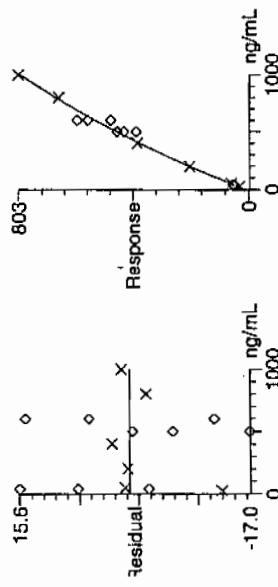
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penry

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA.qld, 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): 10-1972

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
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	
m-Dinitrobenzene	600	606.979	101	
m-Nitrotoluene	600	475.553	79	*
o-Nitrotoluene	600	492.414	82	
p-Nitrotoluene	600	547.628	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 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412010a

Date: 12-Apr-2010

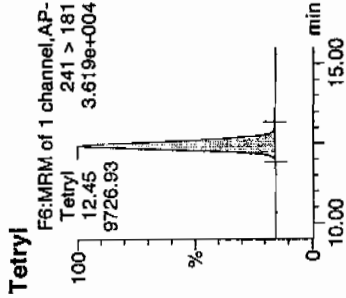
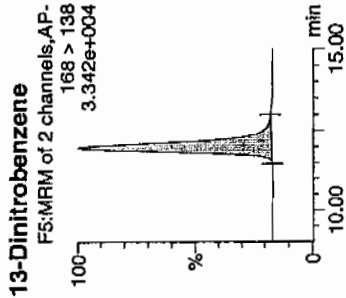
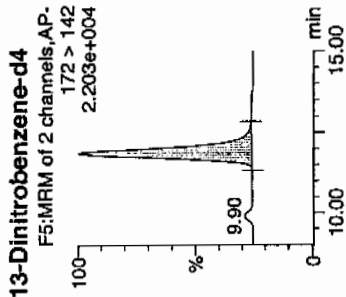
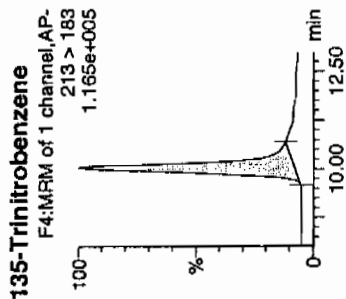
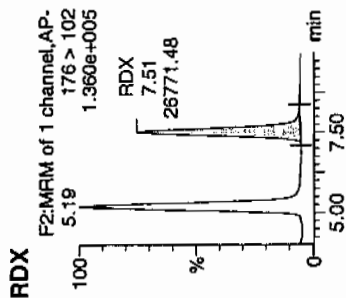
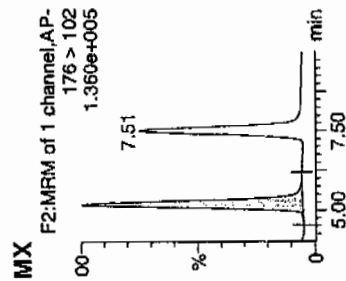
Time: 20:06:00

File: WXX100412-07ICV

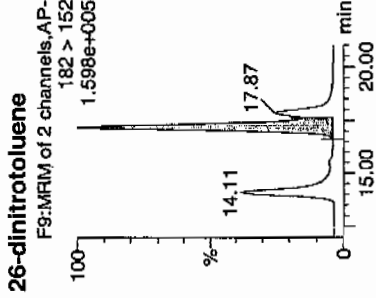
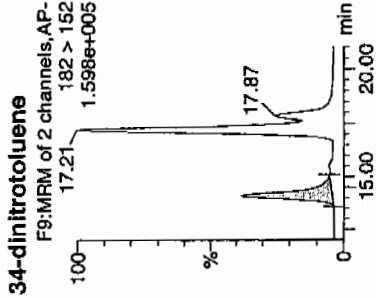
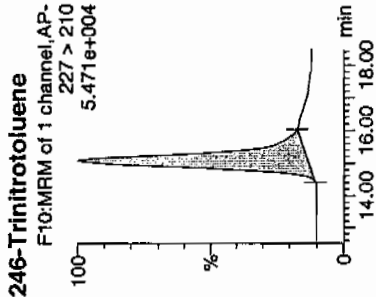
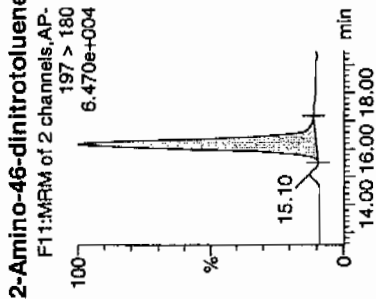
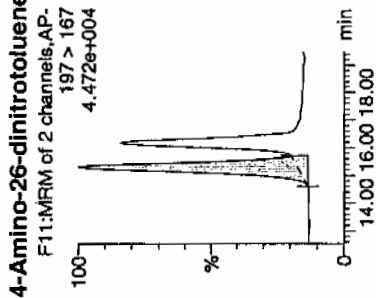
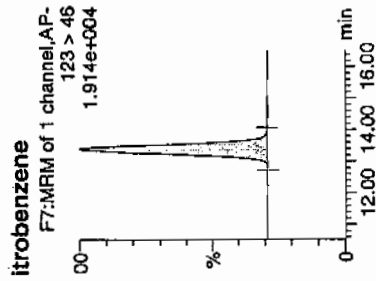
Ratio: 1:1,B

4/13/10
11:17

MX



itrobenzene



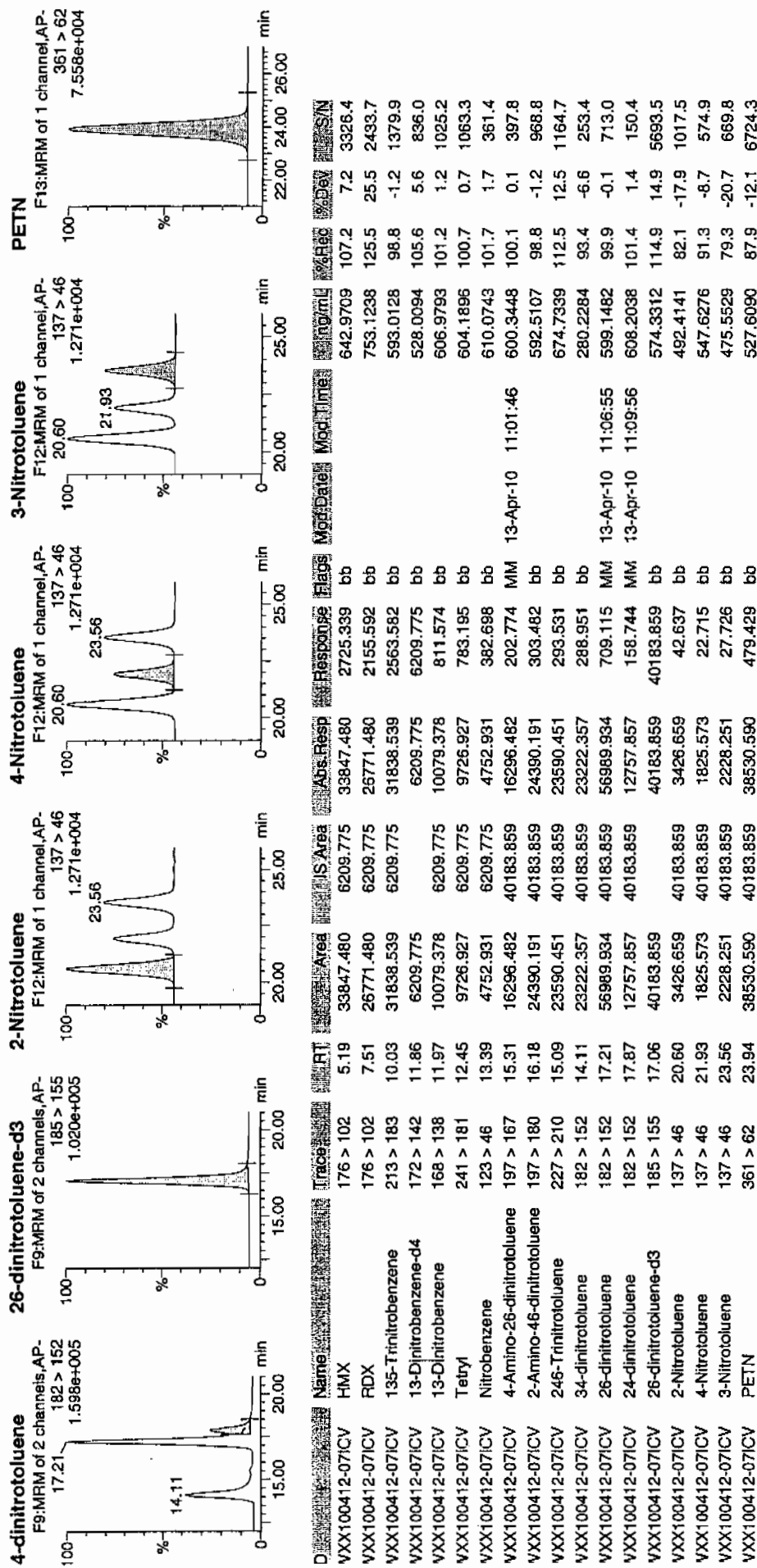
4/13/10
11:17

Quantify Sample Report

iEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 20 of 77

Dataset: C:\MASSLYNX\New_Exp\PRO1041210expA.qld, Time: Tue Apr 13 11:12:22 2010



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

*WXX
4/13/10*

Total 1581.8

Average 98.9

Amuc 04/14/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1972

Lab Code: GEL

Run Date: 12-APR-10.22-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03220003.wif	EXS03220004.wif	EXS03220005.wif	EXS03220007.wif	EXS03220008.wif	EXS03220009.wif					
Paraname:											
2,4-Diamino-6-nitrotoluene	55200	101000	275000	737000	1000000	1740000	-1900	1100	-114	.9998	
2,6-Diamino-4-nitrotoluene	85700	164000	428000	1170000	1480000	2740000	13100	1610	-126	.9999	
3,4-Dinitrotoluene	268000	530000	1370000	3770000	4960000	9320000	361	11500	-2.17	.9989	
3,5-Dinitroaniline	426000	820000	2160000	5770000	7430000	13800000	79000	7960	-547	.9999	
TATB	68300	137000	388000	1200000	1580000	4020000	26300	1210	.391	.9997	
tris(o-cresyl) phosphate	653000	1280000	3020000	9020000	11500000	20500000	-26500	13000	-1.35	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

032210ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	weighting	None	Iterate No
a0	2.63e+004			
a1	1.21e+003			
a2	0.391			
Correlation coefficient 0.9997				
Use Area				

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	weighting	None	Iterate No
a0	7.9e+004			
a1	7.96e+003			
a2	-0.547			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	weighting	None	Iterate No
a0	361			
a1	1.15e+004			
a2	-2.17			
Correlation coefficient 0.9989				
Use Area				

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	weighting	None	Iterate No
a0	1.31e+004			
a1	1.61e+003			
a2	-0.126			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

dan
3/27/10

4/18/09/10

032210ICAL

Iterate No

None

Weighting

Quadratic

-1.9e+003

1.1e+003

-0.114

Correlation coefficient 0.9998

Use Area

Peak Name: tris(o-cresyl) phosphate

No Internal Standard

Q1/Q3 Masses: 369.15/91.00 amu

Iterate No

None

Weighting

Quadratic

-2.65e+004

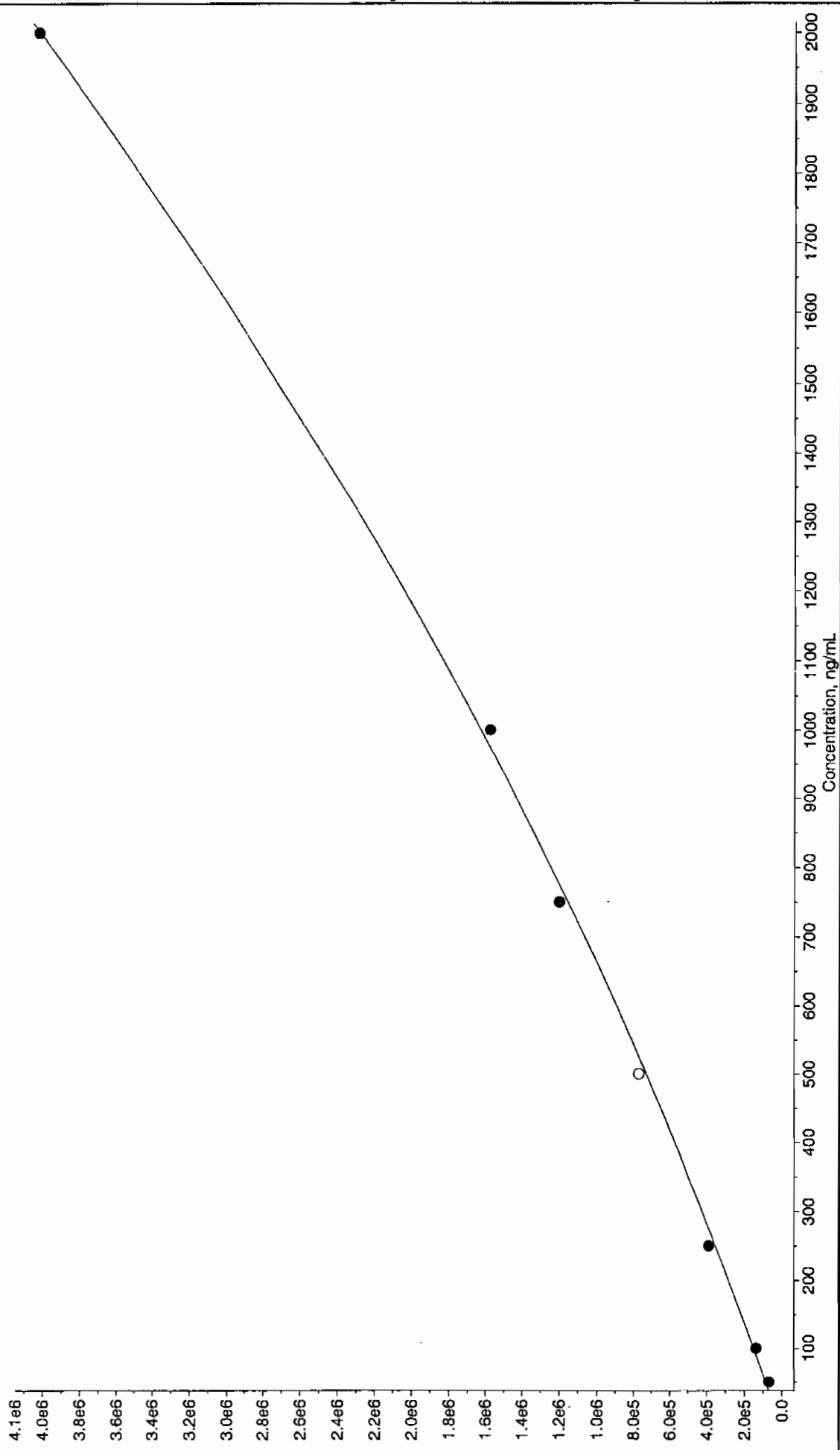
1.3e+004

-1.35

Correlation coefficient 1.0000

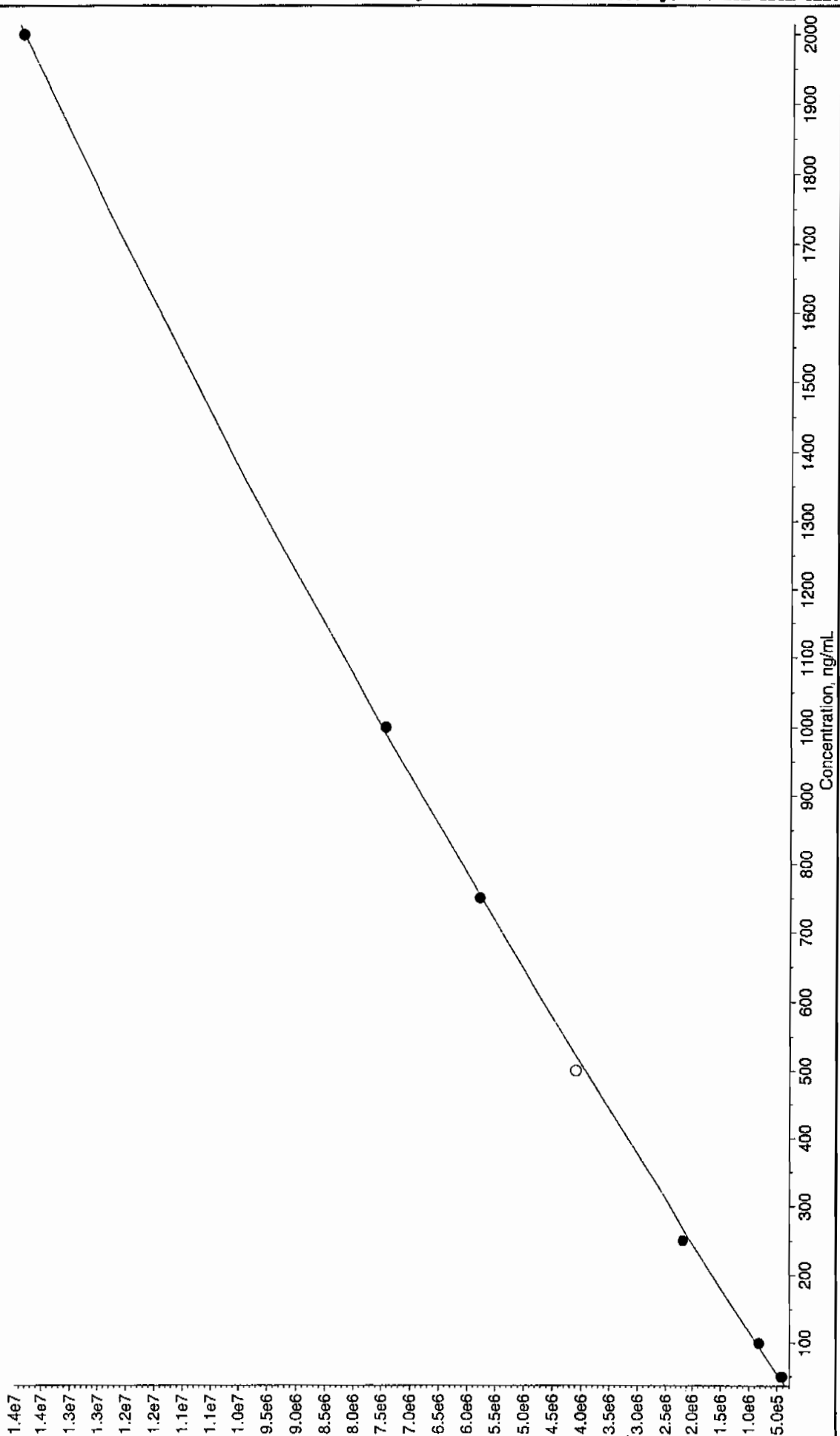
Use Area

032210.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.391 x^2 + 1.21e+003 x + 2.63e+004$ ($r = 0.9997$)



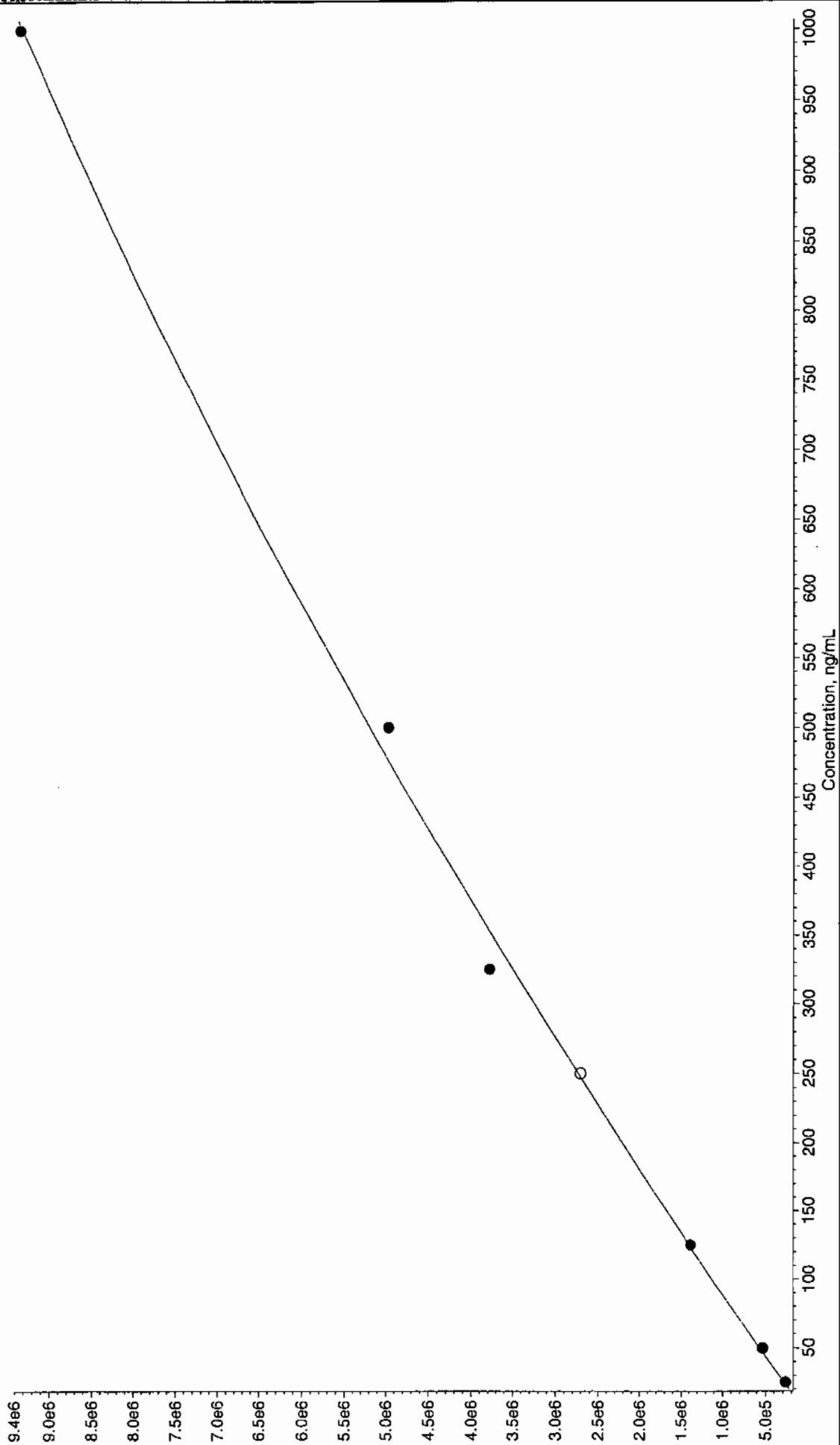
2L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

032210.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.547 x^2 + 7.96e+003 x + 7.9e+004$ ($r = 0.9999$)



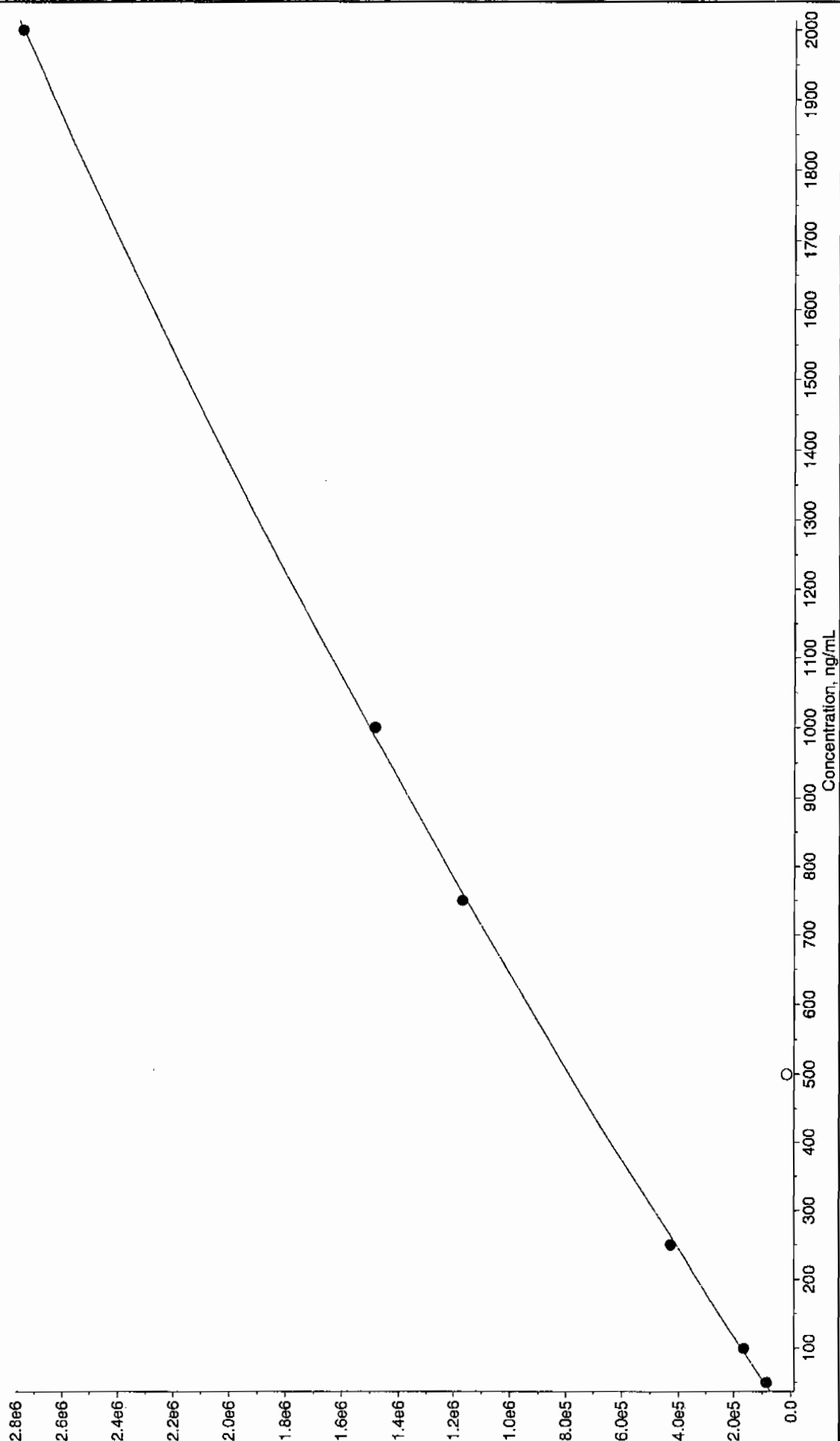
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

032210.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.17 x^2 + 1.15e+004 x + 361$ ($r = 0.9989$)



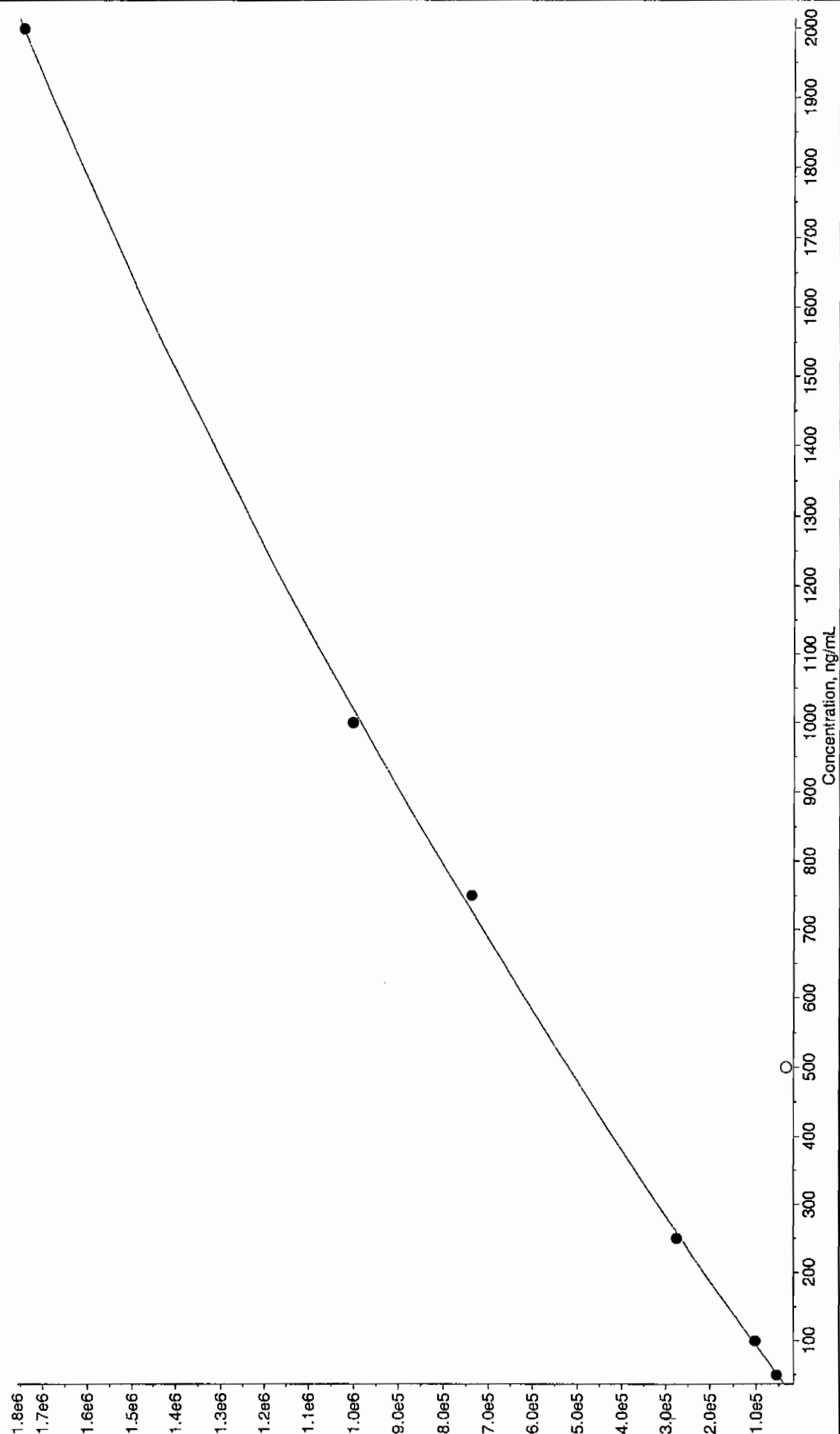
3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

032210.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.126 x^2 + 1.61e+003 x + 1.31e+004$ ($r = 0.9999$)



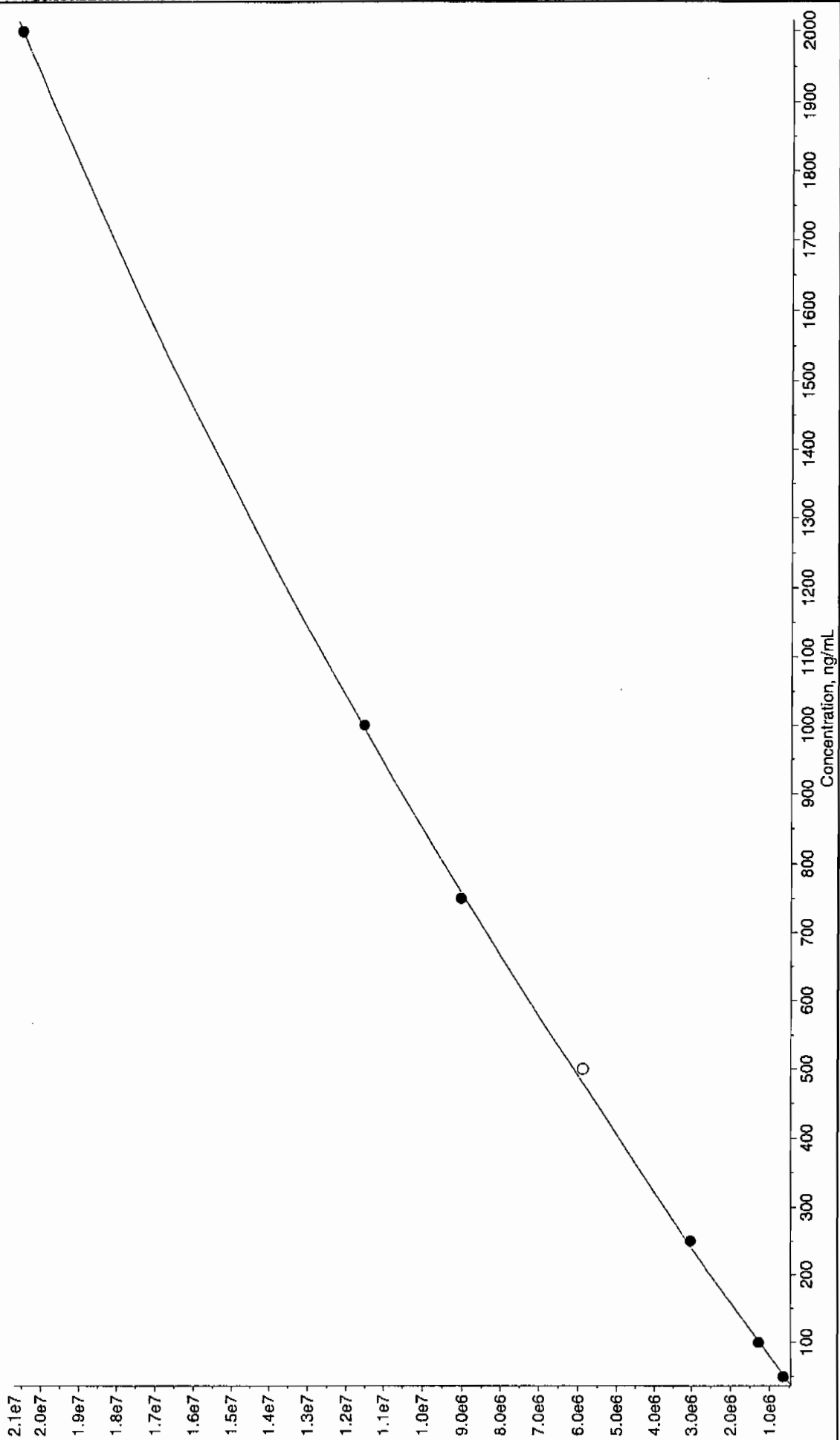
3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

032210.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.114 x^2 + 1.1e+003 x + -1.9e+003$ ($r = 0.9998$)



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

032210.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -1.35 x^2 + 1.3e+004 x + -2.65e+004$ ($r = 1.0000$)



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03220011.wiff

Analysis Date: 22-MAR-10 17:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	494	99	
2,6-Diamino-4-nitrotoluene	500	436	87	
3,4-Dinitrotoluene	250	224	90	
3,5-Dinitroaniline	500	487	97	
TATB	500	541	108	
tris(o-cresyl) phosphate	500	495	99	

Recovery Limits:

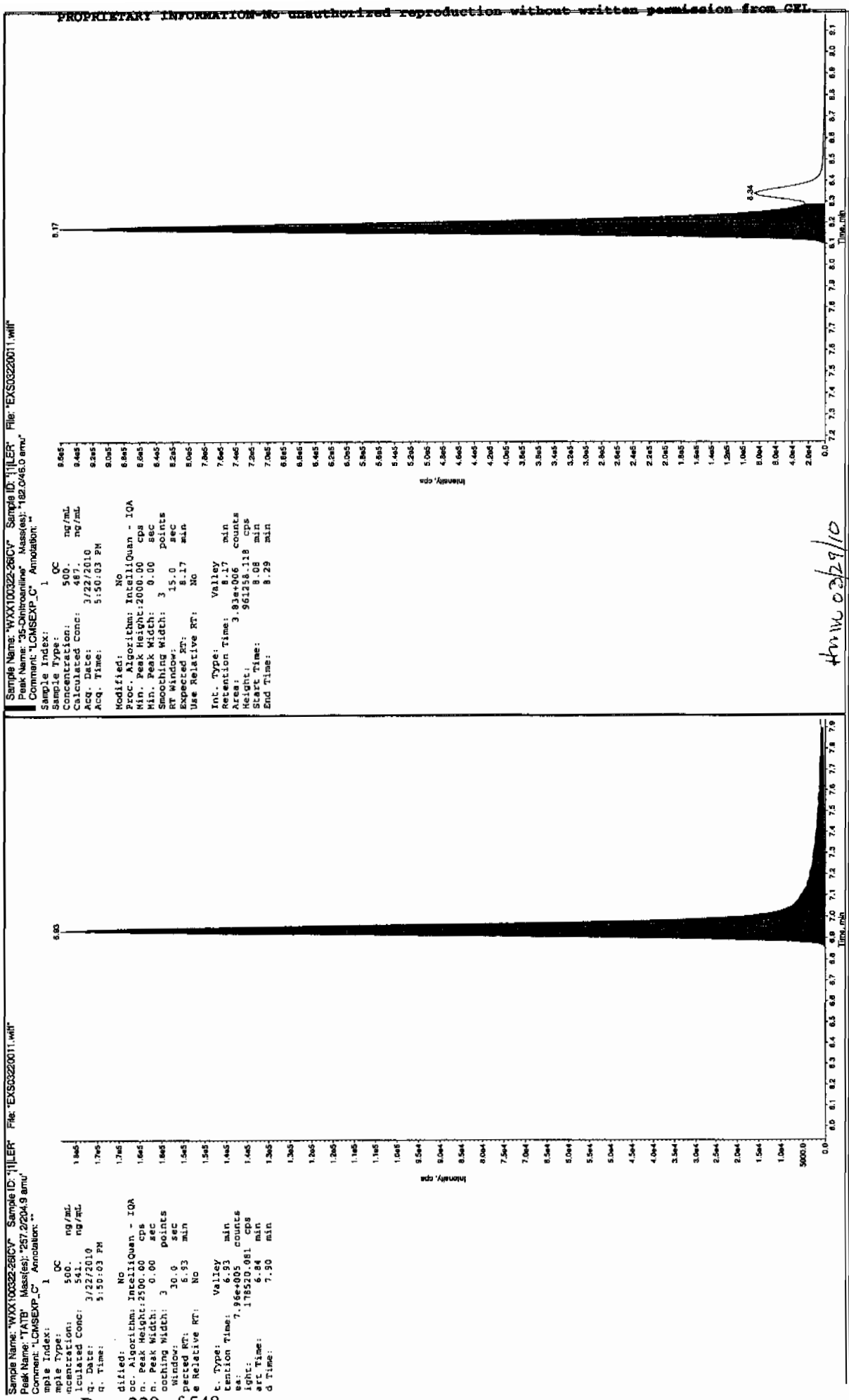
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

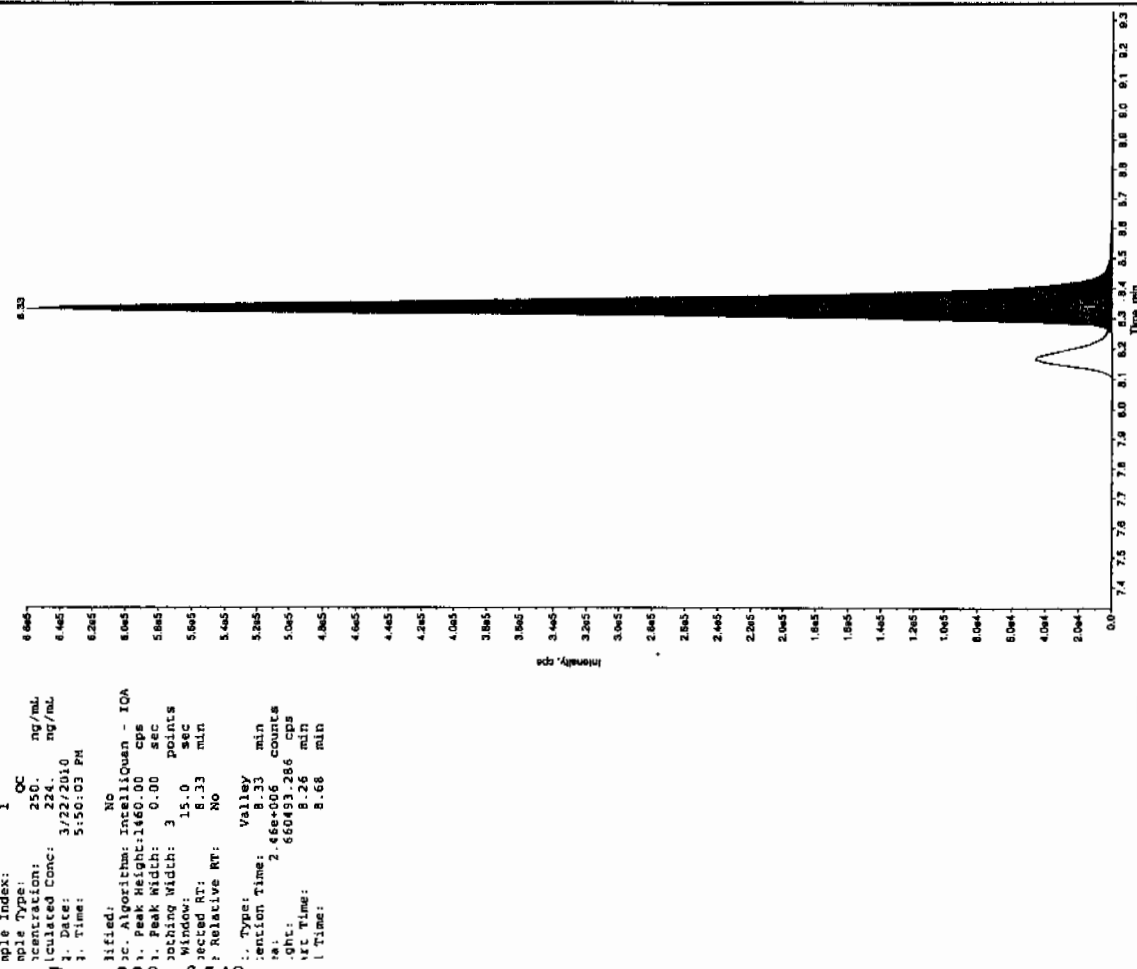
* Value outside of Recovery Limits

804 3/27/10



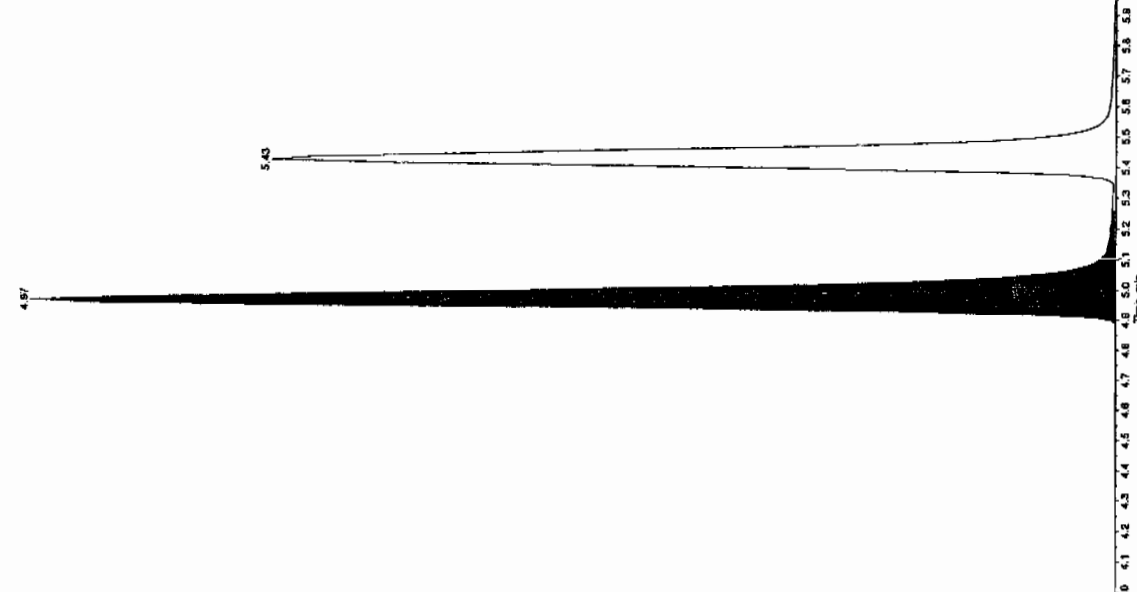
4/11/10 03/29/10

Sample Name: 'WXX100322-2607' Sample ID: '11LER' File: 'EXS03220011.wif'
Peak Name: '34-Dinitrofluorene' Mass(es): '182.1/151.9 amu'
Comment: 'LCMSEXP_C' Annotation: ''

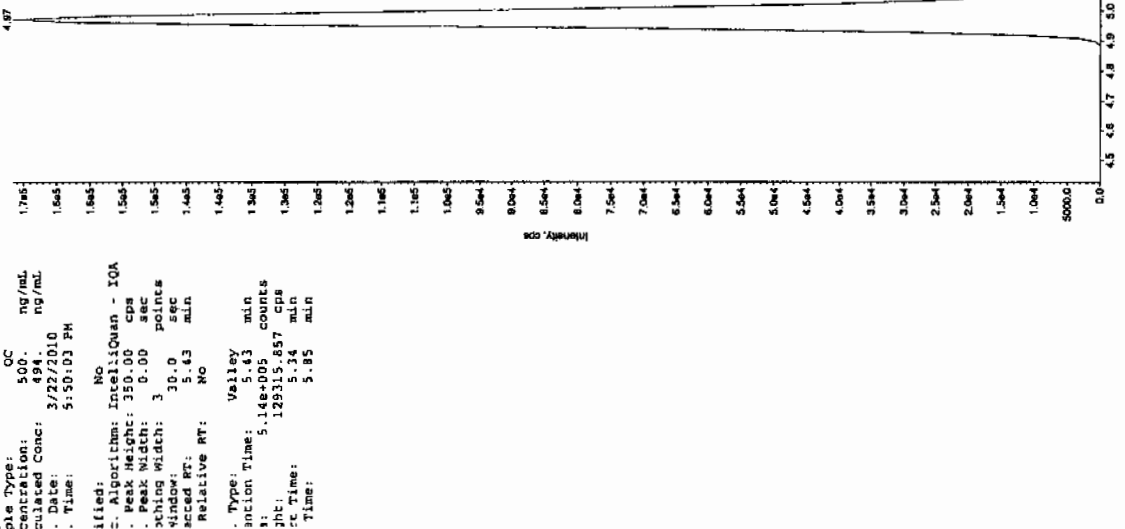


Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 3/22/2010
Date: 3/22/2010
Acq. Time: 5:50:03 PM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 4.97 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 4.97 min
Area: 8.92e005 counts
Height: 188583.42 cps
Start Time: 4.97 min
End Time: 5.26 min

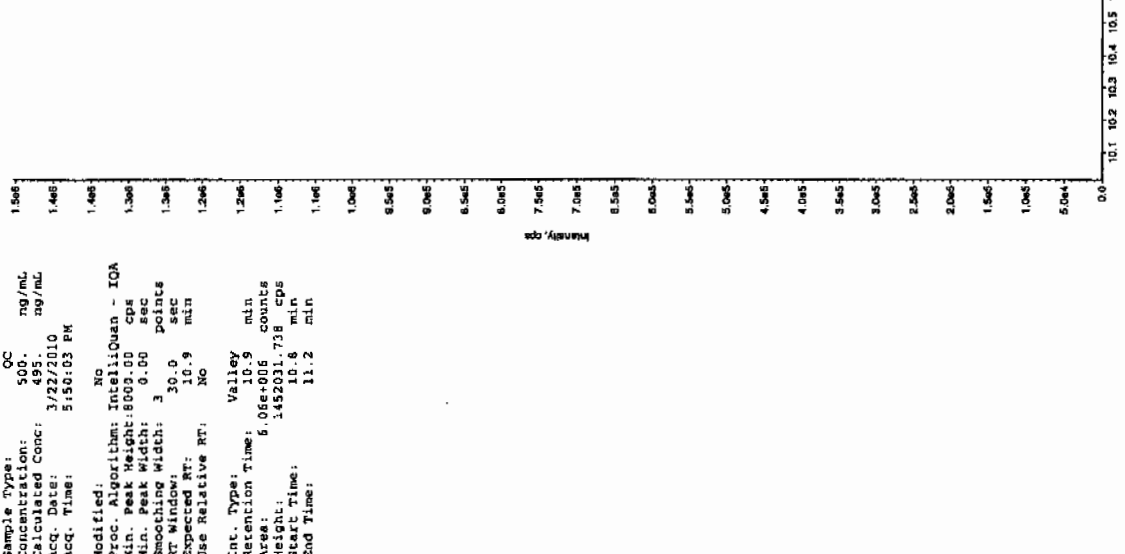
Sample Name: 'WXX100322-2607' Sample ID: '11LER' File: 'EXS03220011.wif'
Peak Name: '26-Diamino-4-nitrofluorene' Mass(es): '186.0/46.0 amu'
Comment: 'LCMSEXP_C' Annotation: ''



Sample Name: "WXX100322-281CV" Sample ID: "111ER" File: "EXS0220011.wif"
 Peak Name: "24-Diamino-5-nitrocholine" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""



Sample Name: "WXX100322-281CV" Sample ID: "111ER" File: "EXS0220011.wif"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "359.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

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
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	
p-Nitrotoluene	40	40.573	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 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

IEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Sample Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0412012a

Date: 12-Apr-2010

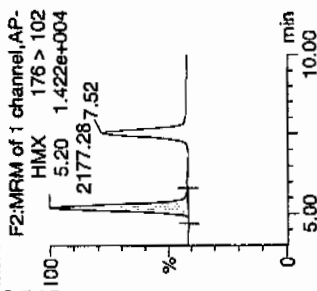
Time: 21:04:58

Page: 233 of 250

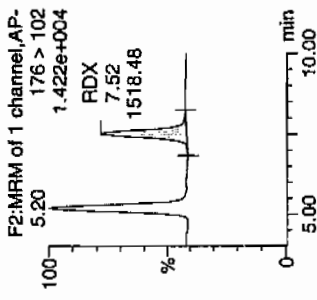
File: 1:1,C

put
4/13/10

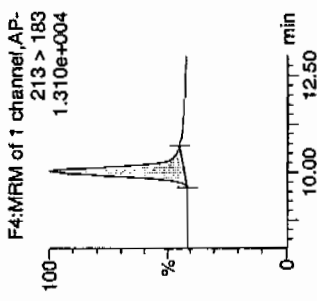
IMX



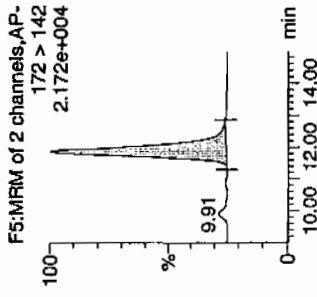
RDX



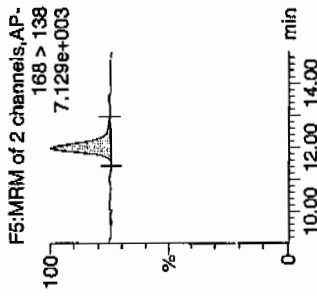
135-Trinitrobenzene



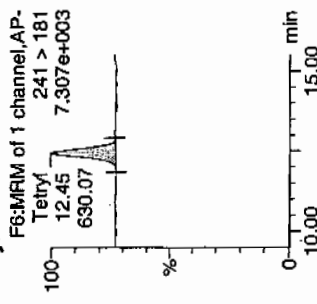
13-Dinitrobenzene-d4



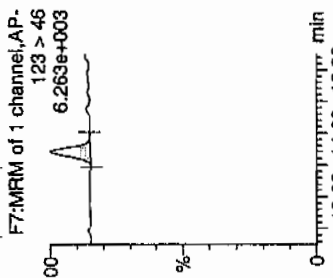
13-Dinitrobenzene



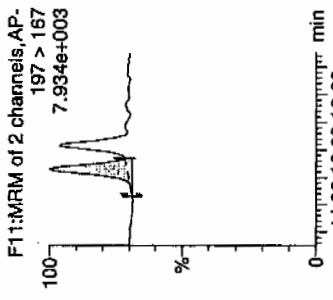
Tetryl



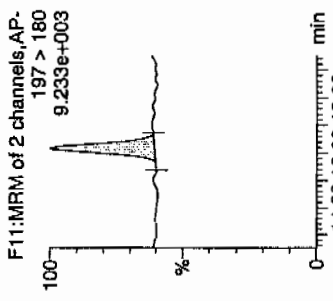
Itrobenzene



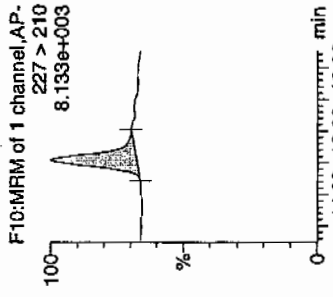
4-Amino-26-dinitrobenzene



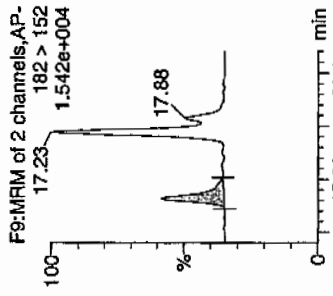
2-Amino-46-dinitrobenzene



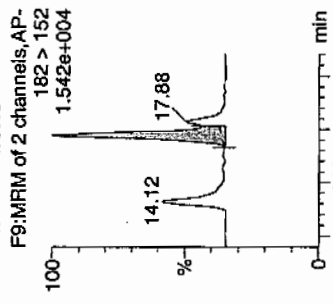
246-Trinitrobenzene



34-dinitrobenzene



26-dinitrobenzene



Handwritten signature: 4/13/10

Quantify Sample Report

3EL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 24 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

4-dinitrotoluene

F9:MRM of 2 channels,AP-

182 > 152

1.542e+004

17.23

14.12

100

%

min

20.00

15.00

min

26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-

185 > 155

9.620e+004

17.23

14.12

100

%

min

20.00

15.00

min

2-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

5.835e+003

23.58

100

%

min

25.00

20.00

min

4-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

5.835e+003

20.61

100

%

min

25.00

20.00

min

3-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

5.835e+003

20.61

100

%

min

25.00

20.00

min

PETN

F13:MRM of 1 channel,AP-

361 > 62

1.254e+004

23.95

100

%

min

25.00

20.00

min

D	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod	Date	Mod	Time	Conc	%Rec	%Dev	S/N
NXX100412-08CRI	HMX	176 > 102	5.20	2177.283	6274.155	2177.283	173.512	bb					40.9355	102.3	2.3	314.4
NXX100412-08CRI	RDX	176 > 102	7.52	1518.477	6274.155	1518.477	121.010	bb					42.2788	105.7	5.7	197.0
NXX100412-08CRI	135-Trinitrobenzene	213 > 183	10.05	2279.088	6274.155	2279.088	181.625	bb					42.0139	105.0	5.0	180.1
NXX100412-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	6274.155	6274.155	6274.155	6274.155	bb					533.4836	106.7	6.7	322.2
NXX100412-08CRI	13-Dinitrobenzene	168 > 138	11.97	671.328	6274.155	671.328	53.499	bb					40.0125	100.0	0.0	50.5
NXX100412-08CRI	Tetryl	241 > 181	12.45	630.065	6274.155	630.065	50.211	bb					38.7350	96.8	-3.2	54.0
NXX100412-08CRI	Nitrobenzene	123 > 46	13.41	318.106	6274.155	318.106	25.351	bb					40.4123	101.0	1.0	29.3
NXX100412-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.32	1058.459	38012.648	1058.459	13.922	MM		13-Apr-10	11:01:55		41.2197	103.0	3.0	59.2
NXX100412-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.16	1478.048	38012.648	1478.048	19.442	bb					37.9571	94.9	-5.1	88.4
NXX100412-08CRI	246-Trinitrotoluene	227 > 210	15.10	1254.134	38012.648	1254.134	16.496	bb					37.9196	94.8	-5.2	135.3
NXX100412-08CRI	34-dinitrotoluene	182 > 152	14.12	1632.265	38012.648	1632.265	21.470	bb					20.8219	104.1	4.1	82.1
NXX100412-08CRI	26-dinitrotoluene	182 > 152	17.23	3764.256	38012.648	3764.256	49.513	MM		13-Apr-10	11:07:00		41.8349	104.6	4.6	228.6
NXX100412-08CRI	24-dinitrotoluene	182 > 152	17.88	774.045	38012.648	774.045	10.181	MM		13-Apr-10	11:10:08		39.0087	97.5	-2.5	47.6
NXX100412-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	38012.648	38012.648	38012.648	38012.648	bb					543.2989	108.7	8.7	2463.8
NXX100412-08CRI	2-Nitrotoluene	137 > 46	20.61	227.869	38012.648	227.869	2.997	bb					34.6153	86.5	-13.5	59.0
NXX100412-08CRI	4-Nitrotoluene	137 > 46	21.95	127.946	38012.648	127.946	1.683	bb					40.5729	101.4	1.4	37.2
NXX100412-08CRI	3-Nitrotoluene	137 > 46	23.58	165.114	38012.648	165.114	2.172	bb					37.2514	93.1	-6.9	41.7
NXX100412-08CRI	PETN	361 > 62	23.95	3684.286	38012.648	3684.286	48.461	bb					38.9040	97.3	-2.7	585.0

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
RDX	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

MMT
4/13/10

Total 1588.0

MMT 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): 10-1972

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
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	
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	

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

EL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 45 of 77

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Sample: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0412023a

Date: 13-Apr-2010

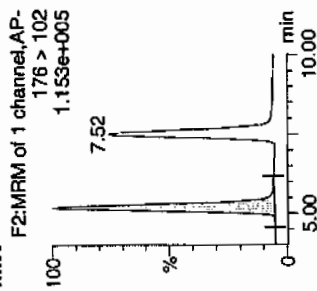
Time: 02:29:16

Job: WXX100412-07CCV

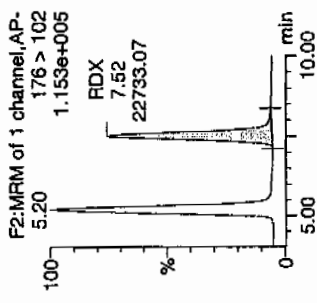
Vial: 1:1, B

MRM
4/13/10

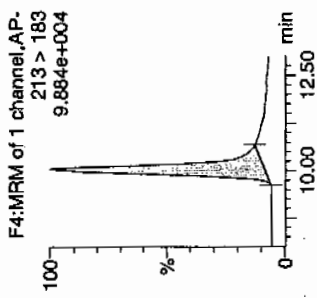
IMX



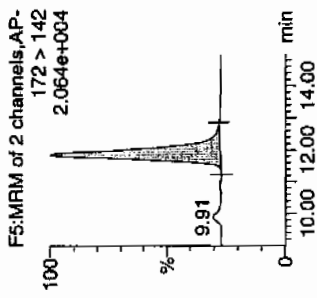
RDX



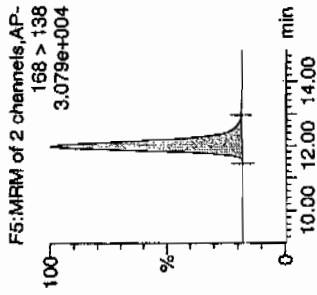
135-Trinitrobenzene



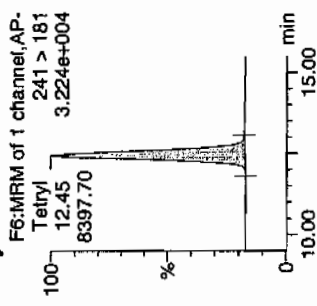
13-Dinitrobenzene-d4



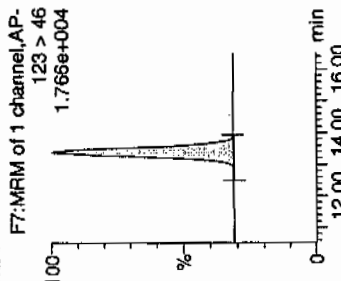
13-Dinitrobenzene



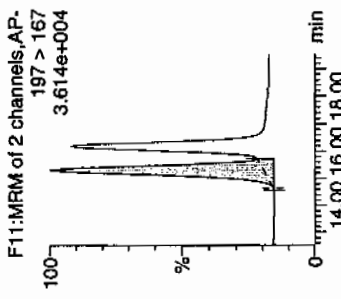
Tetryl



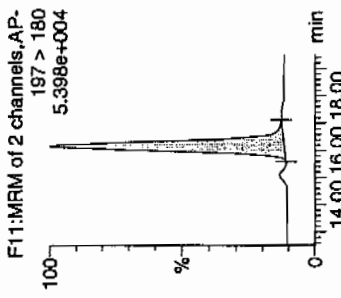
nitrobenzene



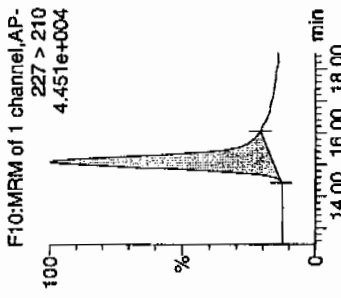
4-Amino-26-dinitrotoluene



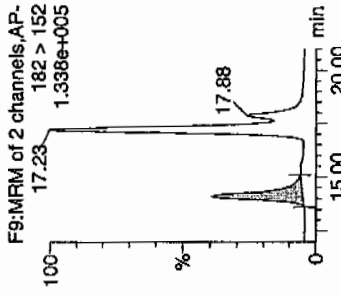
2-Amino-46-dinitrotoluene



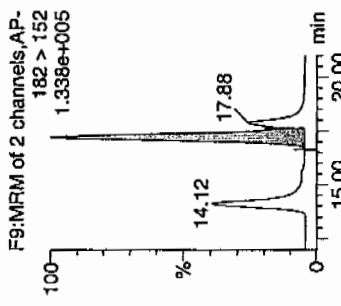
246-Trinitrotoluene



34-dinitrotoluene

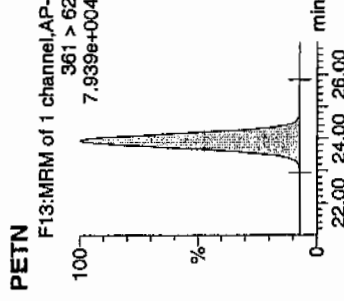
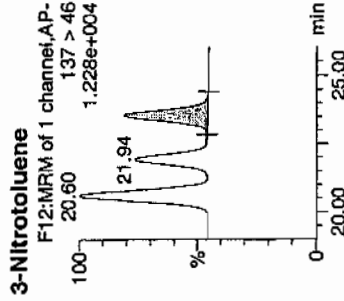
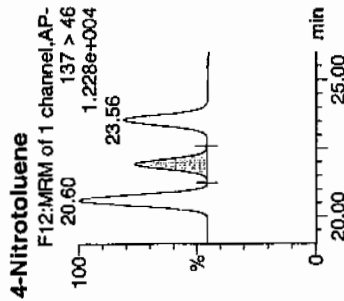
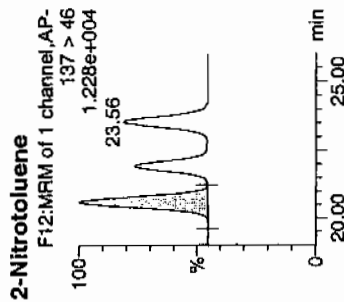
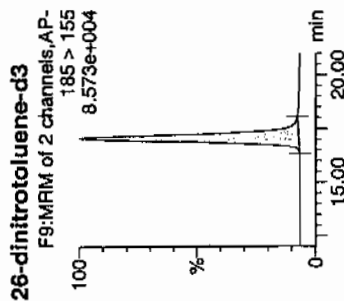
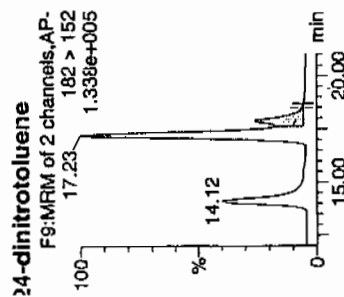


26-dinitrotoluene



4/13/10

Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	ISVArea	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	Indp/mL	%Rec	%Dev	S/N
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	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	11:02:48	565.9529	94.3	-5.7	550.6
WXX100412-07CCV	2-Amino-48-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	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

WXX 04/14/10

Average 100.4

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): 10-1972

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
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	
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	

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

IEL 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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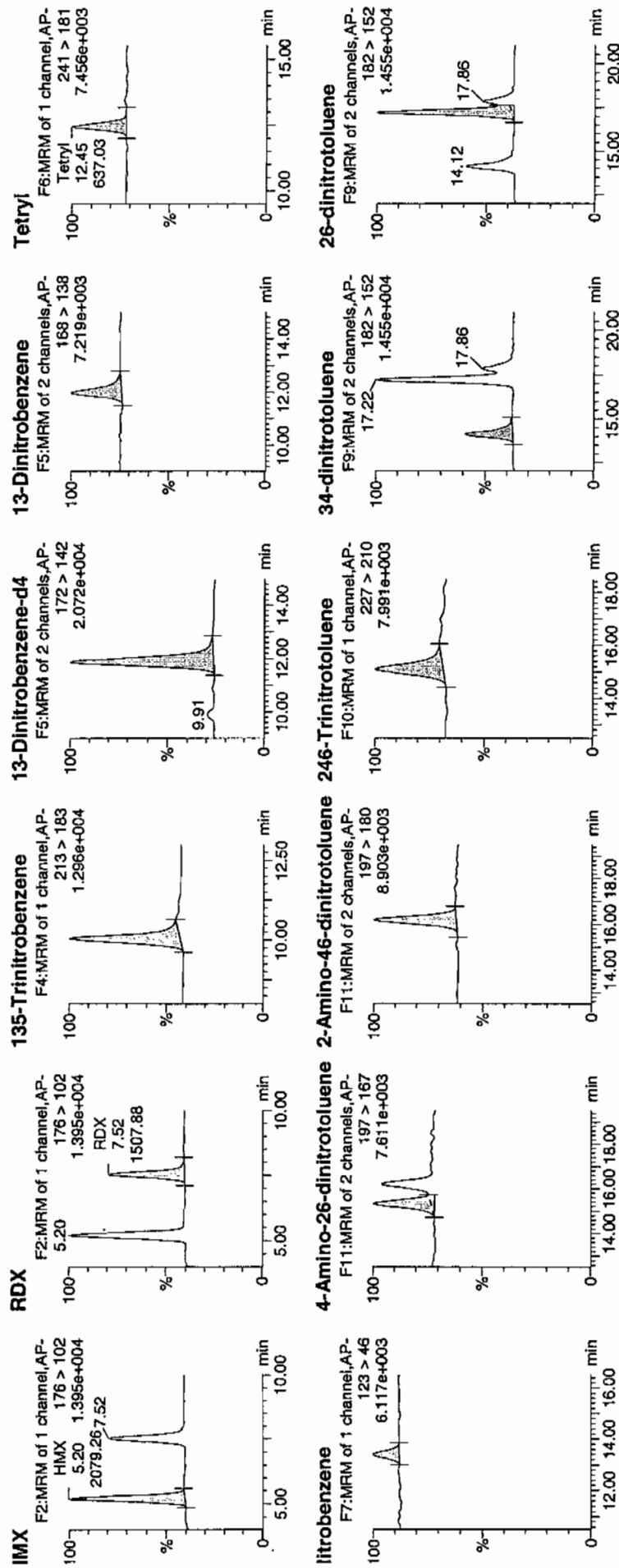
Date: 13-Apr-2010

Time: 03:28:21

Job: WXX100412-08CRI

Ratio: 1:1,C

1.17
4/13/10



Handwritten signature

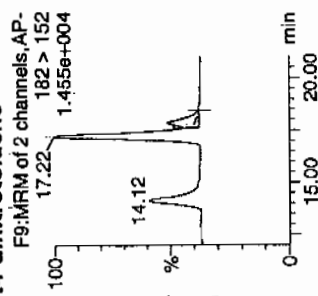
Quantify Sample Report

SEL Laboratories, LLC / Analyst: Michael A. Penny

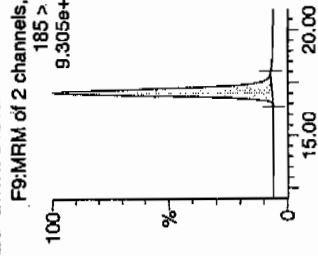
Printed: Tue Apr 13 11:14:26 2010, Page 50 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

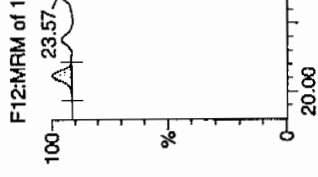
4-dinitrotoluene



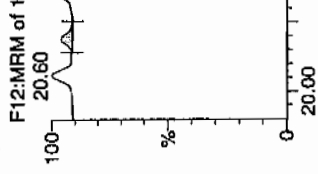
26-dinitrotoluene-d3



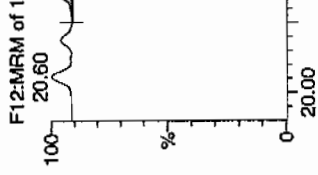
2-Nitrotoluene



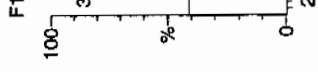
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ppm)	Rec	%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-46-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			42.6921	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

1007
4/13/10

Total 1640.3

Average 102.5

4/13/10

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): 10-1972

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
1,3,5-Trinitrobenzene	600	622.986	104	
1,3-Dinitrobenzene-d4	500	495.434	99	
2,4,6-Trinitrotoluene	600	635.68	106	
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	

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

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412036a

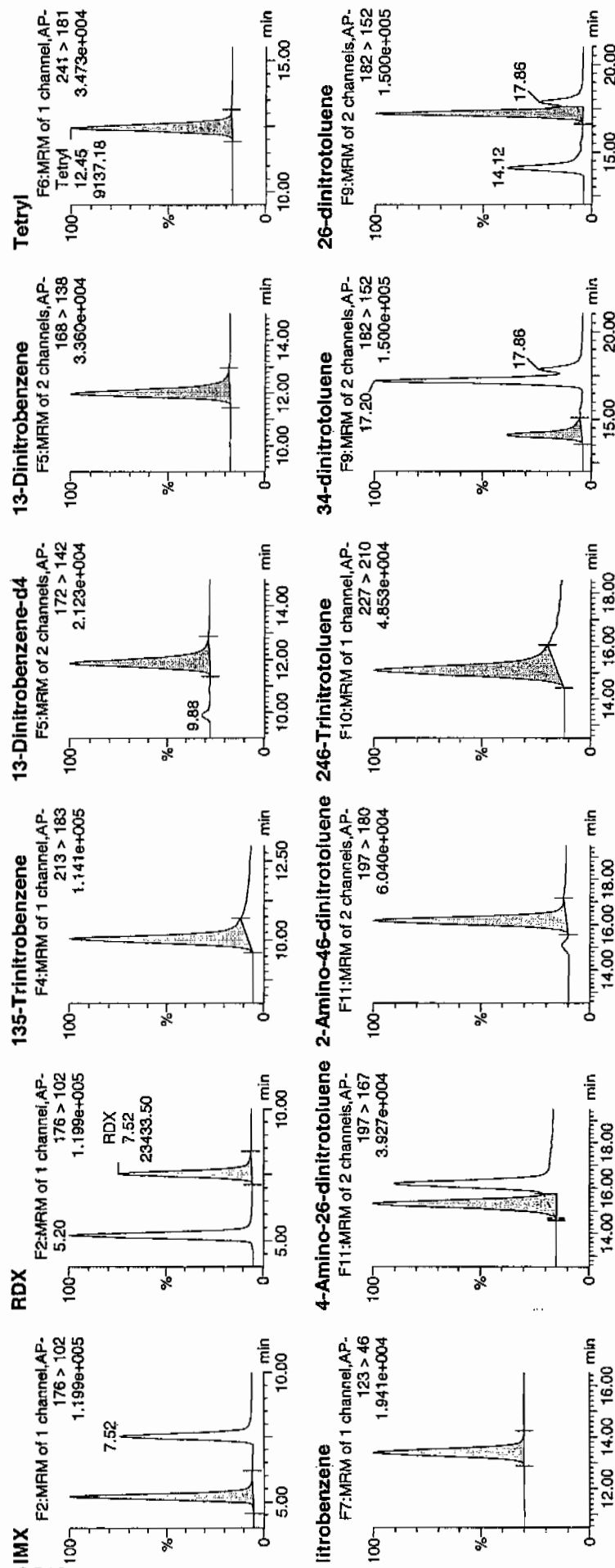
Date: 13-Apr-2010

Time: 08:52:42

Job: WXX100408-07CCV

Label: 1:1, B

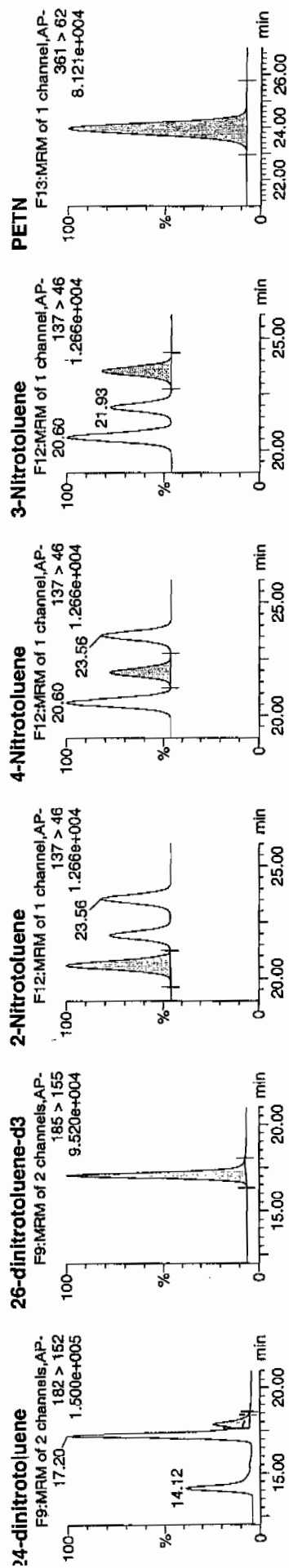
4/13/10



4/14/10

Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Wind (m)	% Rec	% Dev	S/N
HMX	176 > 102	5.20	29781.385	5826.664	29781.385	2555.612	bb			602.9284	100.5	0.5	621.5
FDX	176 > 102	7.52	23433.498	5826.664	23433.498	2010.885	bb			702.5658	117.1	17.1	454.8
135-Trinitrobenzene	213 > 183	10.05	31384.221	5826.664	31384.221	2693.155	bb			622.9859	103.8	3.8	1221.3
13-Dinitrobenzene-d4	172 > 142	11.87	5826.664		5826.664	5826.664	bb			495.4340	99.1	-0.9	856.5
13-Dinitrobenzene	168 > 138	11.97	9758.702	5826.664	9758.702	837.418	bb			526.3082	104.4	4.4	1223.2
Tetryl	241 > 181	12.45	9137.179	5826.664	9137.179	784.083	bb			604.8749	100.8	0.8	997.4
Nitrobenzene	123 > 46	13.37	4719.232	5826.664	4719.232	404.969	bb			645.5776	107.6	7.6	430.6
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
2-Amino-48-dinitrotoluene	197 > 180	16.16	22086.311	35974.031	22086.311	306.976	bb			599.3310	99.9	-0.1	644.5
246-Trinitrotoluene	227 > 210	15.10	19896.846	35974.031	19896.846	276.542	bb			635.6802	105.9	5.9	463.0
34-dinitrotoluene	182 > 152	14.12	21841.178	35974.031	21841.178	303.569	bb			294.4045	98.1	-1.9	603.2
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
24-dinitrotoluene	182 > 152	17.86	11448.733	35974.031	11448.733	159.125	MM	13-Apr-10	11:11:06	609.6651	101.6	1.6	331.4
26-dinitrotoluene-d3	185 > 155	17.05	35974.031		35974.031	35974.031	bb			514.1618	102.8	2.8	2057.8
2-Nitrotoluene	137 > 46	20.60	3236.203	35974.031	3236.203	44.980	bb			519.4669	86.6	-13.4	654.9
4-Nitrotoluene	137 > 46	21.93	1774.065	35974.031	1774.065	24.658	bb			594.4539	99.1	-0.9	382.8
3-Nitrotoluene	137 > 46	23.56	2160.571	35974.031	2160.571	30.030	bb			515.0694	85.8	-14.2	438.3
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

MAP
4/13/10

Total 1615.8

Sum 04/14/10

Average 101.0

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): 10-1972

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
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	
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	

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
 JEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\041210\expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0412038a

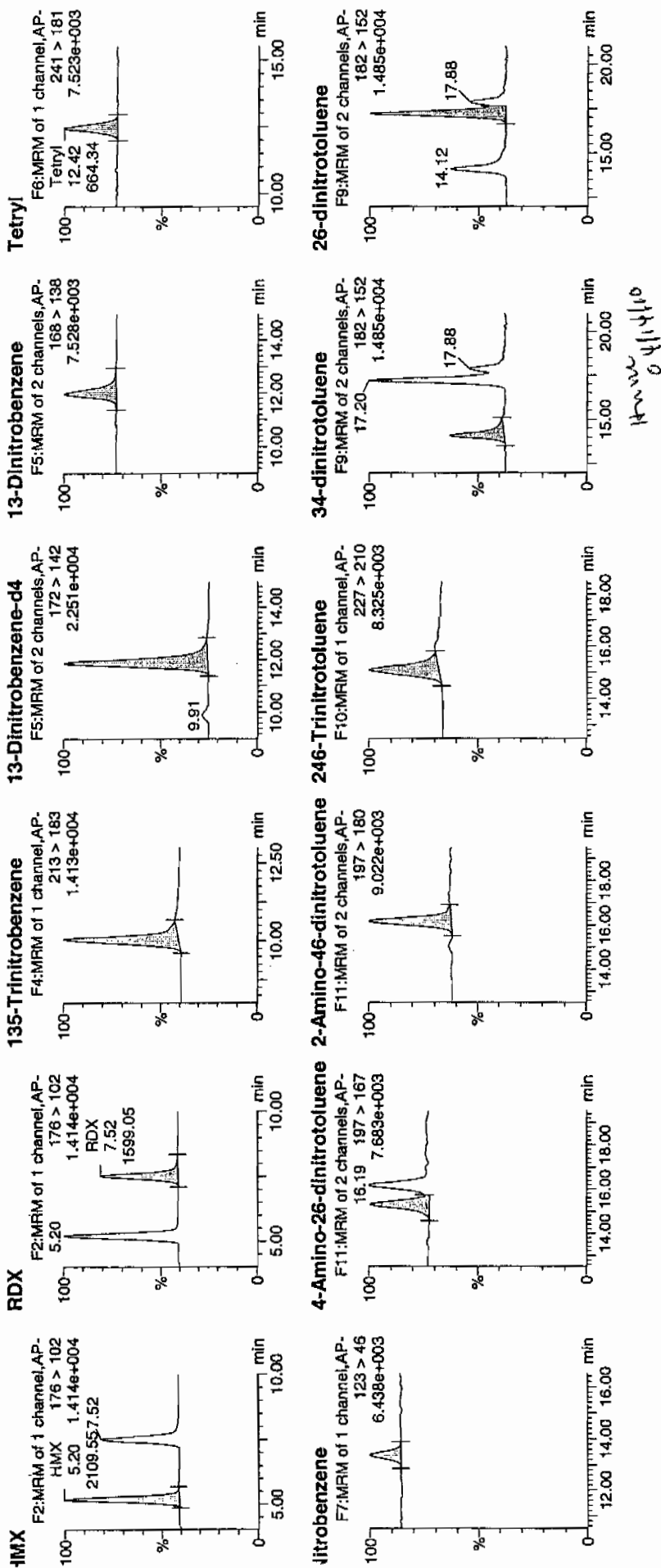
Date: 13-Apr-2010

Time: 09:51:47

D: WXX100408-08CRI

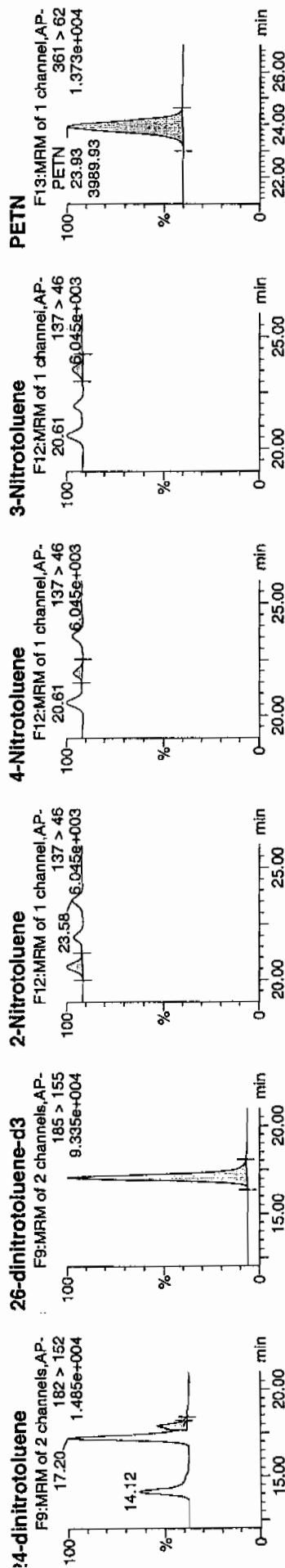
/ial: 1:1,C

WXX
 4/13/10



Dataset: C:\MASSLYN\New_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (mg/ml)	%Rec	%Dev	ISN
WXX100408-08CRI	HMX	176 > 102	5.20	2109.553	6268.472	2109.553	168.267	bb			39.6981	99.2	-0.8	344.7
WXX100408-08CRI	RDX	176 > 102	7.52	1599.046	6268.472	1599.046	127.547	bb			44.5625	111.4	11.4	232.6
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.05	2478.890	6268.472	2478.890	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	734.612	58.596	bb			43.8240	109.6	9.6	56.6
WXX100408-08CRI	Tetryl	241 > 181	12.42	664.339	6268.472	664.339	52.991	bb			40.8791	102.2	2.2	77.0
WXX100408-08CRI	Nitrobenzene	123 > 46	13.37	312.027	6268.472	312.027	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	898.733	12.551	MM	13-Apr-10	11:03:18	37.1578	92.9	-7.1	46.5
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.16	1414.235	35804.613	1414.235	19.749	bb			38.5581	96.4	-3.6	64.1
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.10	1189.063	35804.613	1189.063	16.605	bb			38.1693	95.4	-4.6	105.0
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.12	1586.630	35804.613	1586.630	22.157	bb			21.4879	107.4	7.4	45.9
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.20	3462.203	35804.613	3462.203	48.349	MM	13-Apr-10	11:08:46	40.8509	102.1	2.1	112.8
WXX100408-08CRI	24-dinitrotoluene	182 > 152	17.88	844.986	35804.613	844.986	11.800	MM	13-Apr-10	11:11:14	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	227.450	3.176	bb			36.6824	91.7	-8.3	42.8
WXX100408-08CRI	4-Nitrotoluene	137 > 46	21.94	113.326	35804.613	113.326	1.583	bb			38.1530	95.4	-4.6	23.5
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.58	152.725	35804.613	152.725	2.133	bb			36.5812	91.5	-8.5	27.1
WXX100408-08CRI	PETN	361 > 62	23.93	3989.934	35804.613	3989.934	55.718	bb			46.2507	115.6	15.6	299.5

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

Time 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): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0412049a

Analysis Date: 13-APR-10 15:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	506.928	101	
2,4,6-Trinitrotoluene	600	673.095	112	
2,4-Dinitrotoluene	600	690.861	115	
2,6-Dinitrotoluene	600	617.582	103	
2,6-Dinitrotoluene-d3	500	498.886	100	
2-Amino-4,6-dinitrotoluene	600	607.095	101	
3,4-Dinitrotoluene	300	303.099	101	
4-Amino-2,6-dinitrotoluene	600	604.473	101	
HMX	600	617.414	103	
Nitrobenzene	600	582.952	97	
PETN	600	664.135	111	
RDX	600	727.871	121	*
Tetryl	600	602.021	100	
m-Dinitrobenzene	600	604.378	101	
m-Nitrotoluene	600	551.203	92	
o-Nitrotoluene	600	525.761	88	
p-Nitrotoluene	600	663.98	111	
1,3,5-Trinitrobenzene	600	571.573	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

Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0412049a

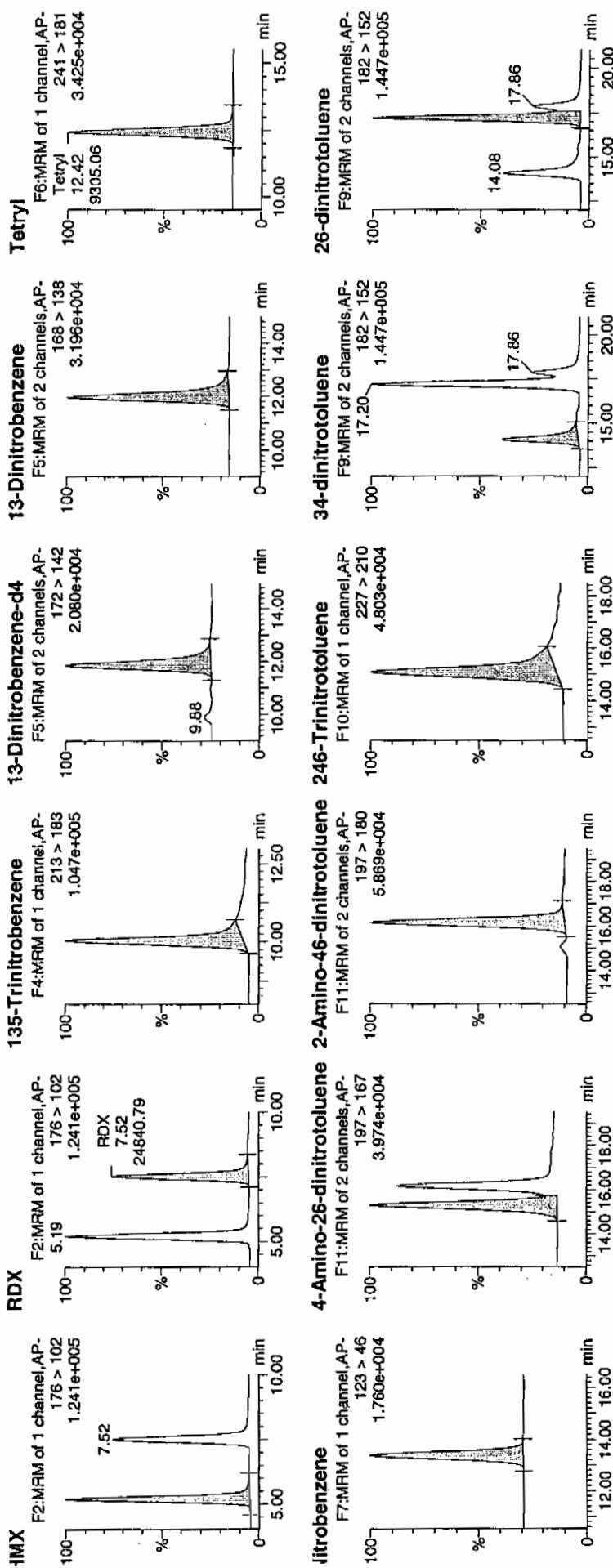
Date: 13-Apr-2010

Time: 15:16:35

D: WXX100412-07CCV

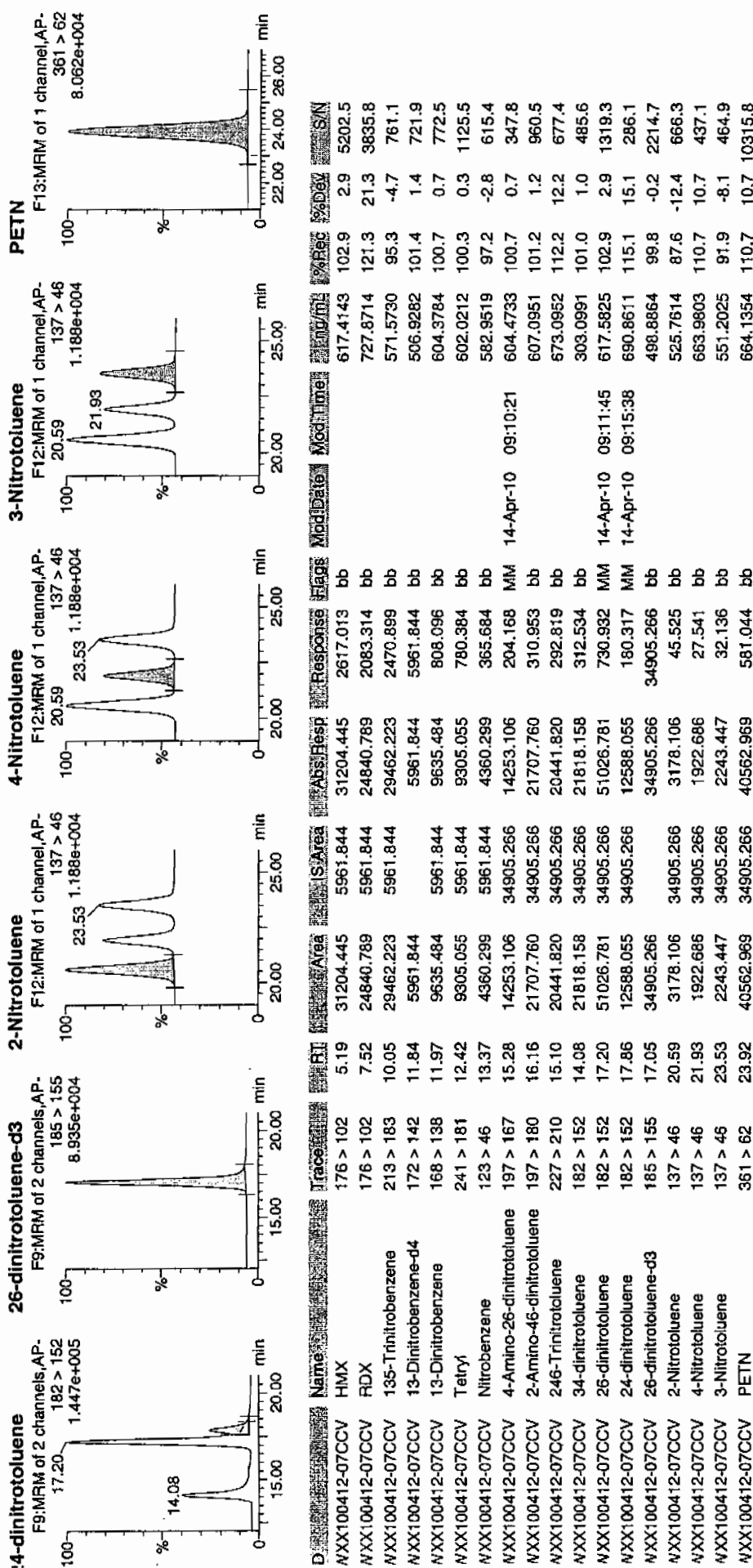
/ial: 1:1,B

WJF
 4/14/10



4/14/10

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/13/10
 Time of Injection: 1516
 Standard Number: WXX100412-07CCV
 Data File: EXP0412049a

HMX	102.9
RDX	121.3
135-TNB	95.3
13-DNB	100.7
Tetryl	100.3
Nitrobenzene	97.2
4A-26-DNT	100.7
2A-46-DNT	101.2
246-TNT	112.2
34-DNT(surr)	101.0
26-DNT	102.9
24-DNT	115.1
2-NT	87.6
4-NT	110.7
3-NT	91.9
PETN	110.7

*MTT
4/14/10*

Total 1651.7

Ann 04/14/10

Average 103.2

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): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0412051a

Analysis Date: 13-APR-10 16:15

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	40	41.352	103	
2,6-Dinitrotoluene	40	41.013	103	
2,6-Dinitrotoluene-d3	500	540.214	108	
2-Amino-4,6-dinitrotoluene	40	38.681	97	
3,4-Dinitrotoluene	20	22.076	110	
4-Amino-2,6-dinitrotoluene	40	40.59	101	
HMX	40	38.797	97	
Nitrobenzene	40	39.951	100	
PETN	40	48.006	120	
RDX	40	40.505	101	
Tetryl	40	40.745	102	
m-Dinitrobenzene	40	41.507	104	
m-Nitrotoluene	40	38.882	97	
o-Nitrotoluene	40	38.71	97	
p-Nitrotoluene	40	41.261	103	
1,3,5-Trinitrobenzene	40	43.445	109	
1,3-Dinitrobenzene-d4	500	578.682	116	
2,4,6-Trinitrotoluene	40	41.977	105	

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

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412051a

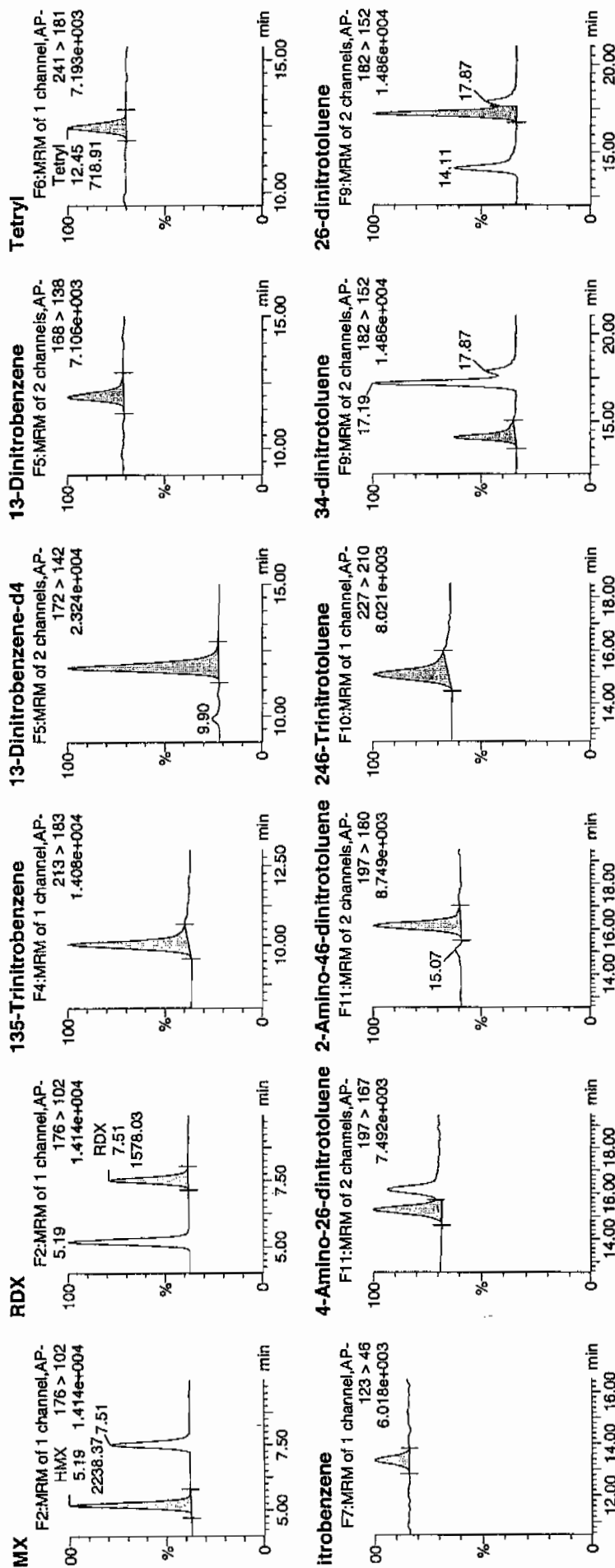
Acquire Date: 13-Apr-2010

Time: 16:15:40

File Name: WXX100412-08CRI

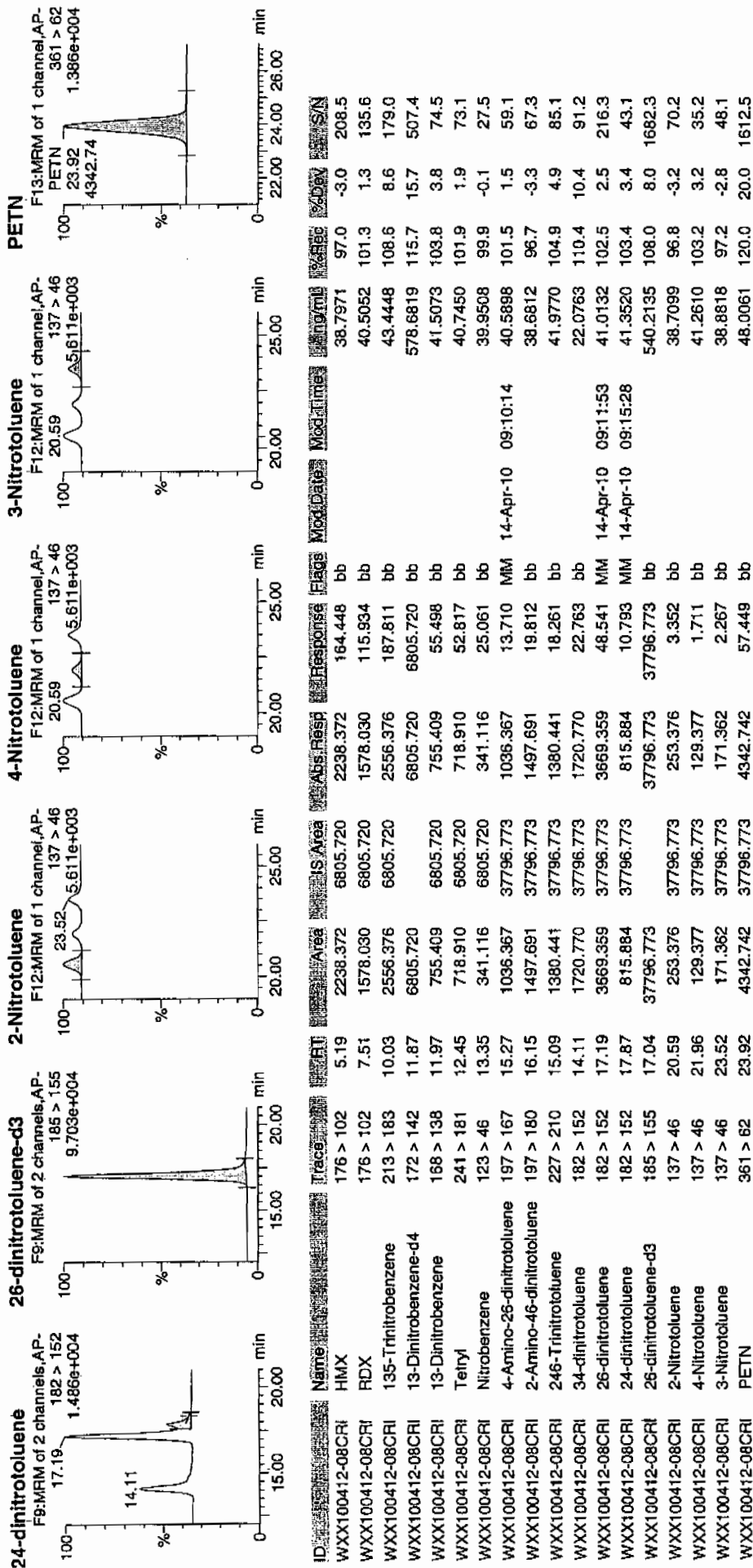
Injection: 1:1,C

4/14/10
JMP



4/14/10

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/13/10
 Time of Injection 1615
 Standard Number WXX100412-08CRI
 Data File EXP0412051a

HMX	97.0
RDX	101.3
135-TNB	108.6
13-DNB	103.8
Tetryl	101.9
Nitrobenzene	99.9
4A-26-DNT	101.5
2A-46-DNT	96.7
246-TNT	104.9
34-DNT(surr)	110.4
26-DNT	102.5
24-DNT	103.4
2-NT	96.8
4-NT	103.2
3-NT	97.2
PETN	120.0

Handwritten: 100%
4/14/10

Total 1649.1

Average 103.1

Handwritten: 100%
4/14/10

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): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0412060a

Analysis Date: 13-APR-10 20:41

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	646.401	108	
RDX	600	735.804	123	*
Tetryl	600	668.888	111	
m-Dinitrobenzene	600	610.208	102	
m-Nitrotoluene	600	514.808	86	
o-Nitrotoluene	600	527.178	88	
p-Nitrotoluene	600	571.151	95	
1,3,5-Trinitrobenzene	600	599.334	100	
1,3-Dinitrobenzene-d4	500	499.969	100	
2,4,6-Trinitrotoluene	600	660.453	110	
2,4-Dinitrotoluene	600	684.197	114	
2,6-Dinitrotoluene	600	612.271	102	
2,6-Dinitrotoluene-d3	500	510.451	102	
2-Amino-4,6-dinitrotoluene	600	614.276	102	
3,4-Dinitrotoluene	300	313.494	104	
4-Amino-2,6-dinitrotoluene	600	595.541	99	
HMX	600	611.301	102	
Nitrobenzene	600	608.894	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\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412060a

Date: 13-Apr-2010

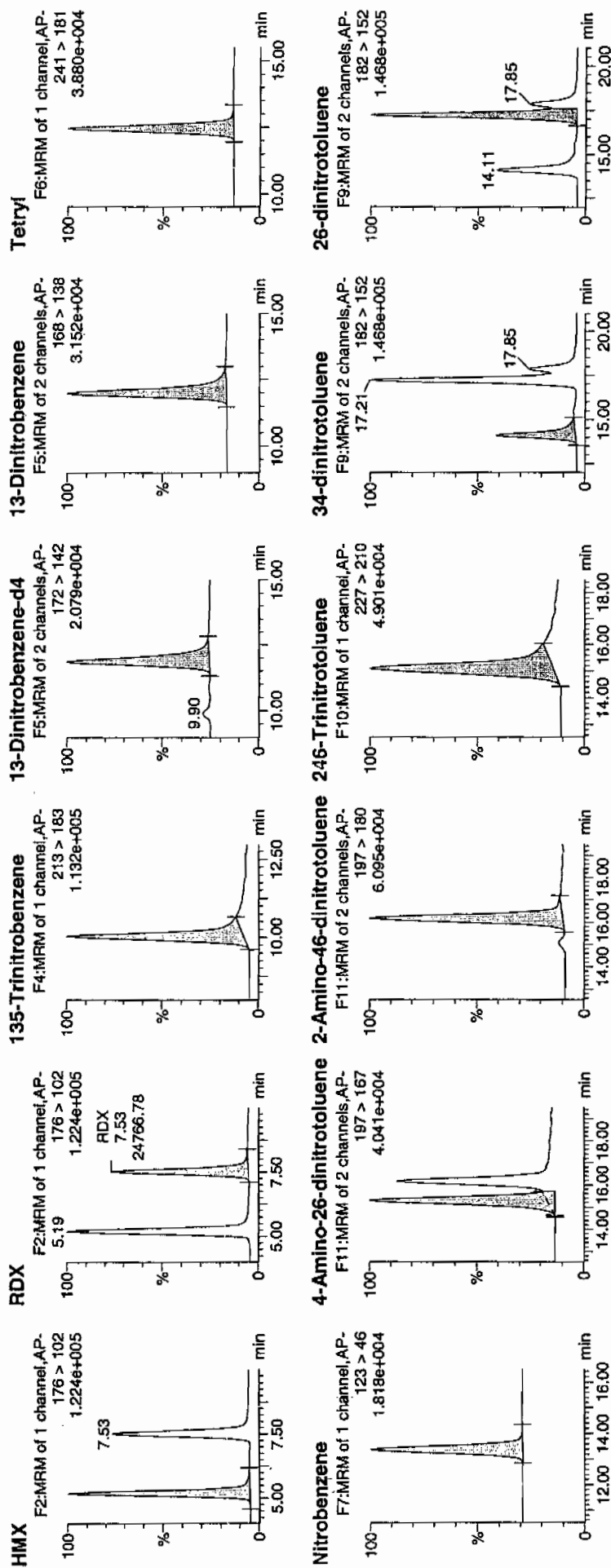
Time: 20:41:14

ID: WXX100412-07CCV

Vial: 1:1,B

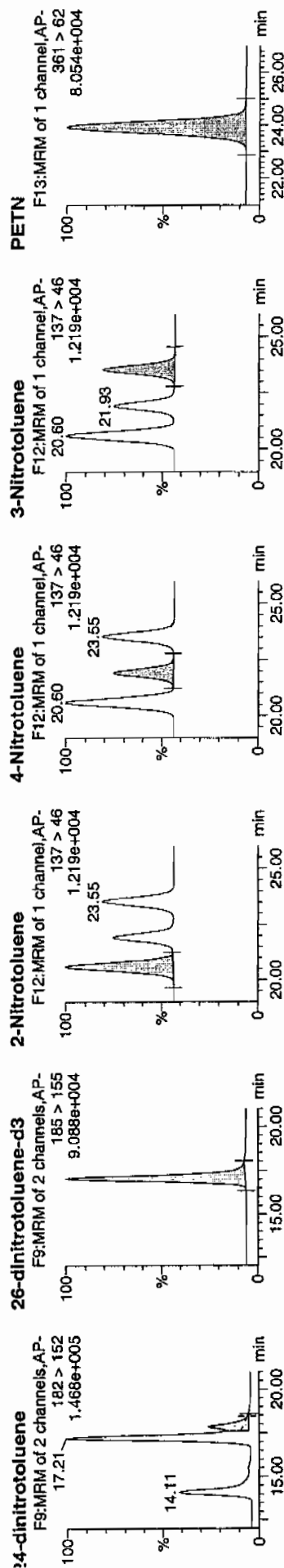
WAT
4/14/10

Page 261 of 548



WAT
4/14/10

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



D	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	% Rec	% Dev	SN
NXX100412-07CCV	HMX	176 > 102	5.19	30471.305	5879.997	30471.305	2591.099	bb			611.3005	101.9	1.9	4888.6
NXX100412-07CCV	RDX	176 > 102	7.53	24766.781	5879.997	24766.781	2106.020	bb			735.8043	122.6	22.6	3663.0
NXX100412-07CCV	135-Trinitrobenzene	213 > 183	10.03	30469.059	5879.997	30469.059	2590.908	bb			599.3338	99.9	-0.1	527.0
NXX100412-07CCV	13-Dinitrobenzene-d4	172 > 142	11.86	5879.997		5879.997	5879.997	bb			489.9688	100.0	-0.0	312.1
NXX100412-07CCV	13-Dinitrobenzene	168 > 138	11.97	9594.861	5879.997	9594.861	815.890	bb			610.2076	101.7	1.7	589.3
NXX100412-07CCV	Tetryl	241 > 181	12.45	10196.647	5879.997	10196.647	867.062	bb			668.8885	111.5	11.5	797.0
NXX100412-07CCV	Nitrobenzene	123 > 46	13.39	4491.814	5879.997	4491.814	381.957	bb			608.8941	101.5	1.5	423.9
NXX100412-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.31	14368.022	35714.422	14368.022	201.152	MM	14-Apr-10	09:10:06	595.5413	99.3	-0.7	278.9
NXX100412-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.18	22473.705	35714.422	22473.705	314.631	bb			614.2762	102.4	2.4	791.6
NXX100412-07CCV	246-Trinitrotoluene	227 > 210	15.09	20522.861	35714.422	20522.861	287.319	bb			660.4534	110.1	10.1	1440.2
NXX100412-07CCV	34-dinitrotoluene	182 > 152	14.11	23089.531	35714.422	23089.531	323.252	bb			313.4938	104.5	4.5	574.1
NXX100412-07CCV	26-dinitrotoluene	182 > 152	17.21	51760.656	35714.422	51760.656	724.646	MM	14-Apr-10	09:12:05	612.2713	102.0	2.0	1480.7
NXX100412-07CCV	24-dinitrotoluene	182 > 152	17.85	12755.632	35714.422	12755.632	178.578	MM	14-Apr-10	09:15:11	684.1974	114.0	14.0	325.1
NXX100412-07CCV	26-dinitrotoluene-d3	185 > 155	17.04	35714.422		35714.422	35714.422	bb			510.4514	102.1	2.1	1565.0
NXX100412-07CCV	2-Nitrotoluene	137 > 46	20.60	3260.543	35714.422	3260.543	45.647	bb			527.1784	87.9	-12.1	489.2
NXX100412-07CCV	4-Nitrotoluene	137 > 46	21.93	1692.219	35714.422	1692.219	23.691	bb			571.1507	95.2	-4.8	274.5
NXX100412-07CCV	3-Nitrotoluene	137 > 46	23.55	2143.889	35714.422	2143.889	30.014	bb			514.8077	85.8	-14.2	326.3
NXX100412-07CCV	PETN	361 > 62	23.93	40593.559	35714.422	40593.559	568.308	bb			646.4009	107.7	7.7	8856.6

✓

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/13/10
 Time of Injection: 2041
 Standard Number: WXX100412-07CCV
 Data File: EXP0412060a

HMX	101.9
RDX	122.6
135-TNB	99.9
13-DNB	101.7
Tetryl	111.5
Nitrobenzene	101.5
4A-26-DNT	99.3
2A-46-DNT	102.4
246-TNT	110.1
34-DNT(surr)	104.5
26-DNT	102.0
24-DNT	114.0
2-NT	87.9
4-NT	95.2
3-NT	85.8
PETN	107.7

*WAT
4/14/10*

Total 1648.0

Average 103.0

WAT 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): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0412062a

Analysis Date: 13-APR-10 21:40

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	40	42.827	107	
m-Nitrotoluene	40	31.848	80	
o-Nitrotoluene	40	44.099	110	
p-Nitrotoluene	40	40.569	101	
1,3,5-Trinitrobenzene	40	44.068	110	
1,3-Dinitrobenzene-d4	500	557.026	111	
2,4,6-Trinitrotoluene	40	47.263	118	
2,4-Dinitrotoluene	40	43.24	108	
2,6-Dinitrotoluene	40	42.432	106	
2,6-Dinitrotoluene-d3	500	543.492	109	
2-Amino-4,6-dinitrotoluene	40	41.373	103	
3,4-Dinitrotoluene	20	20.458	102	
4-Amino-2,6-dinitrotoluene	40	42.964	107	
HMX	40	45.559	114	
Nitrobenzene	40	43.255	108	
PETN	40	44.881	112	
RDX	40	44.011	110	
Tetryl	40	38.121	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

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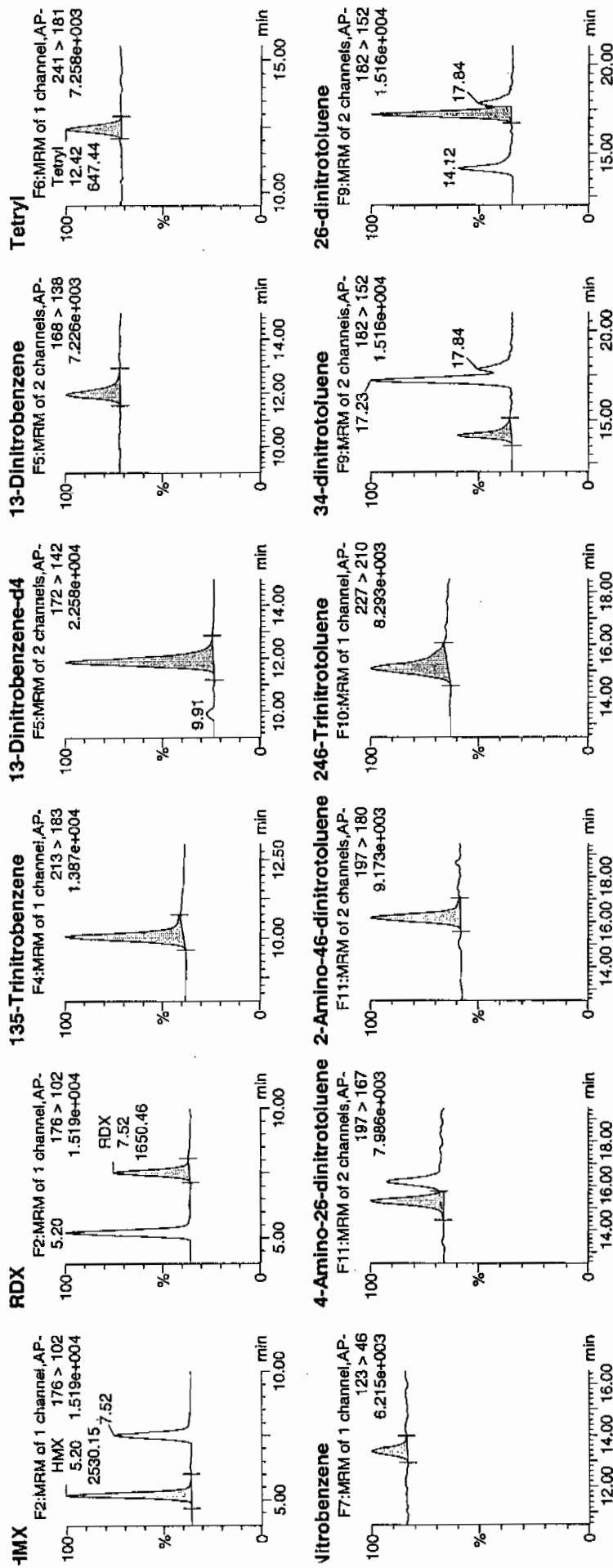
Date: 13-Apr-2010

Time: 21:40:18

D: WXX100412-08CRI

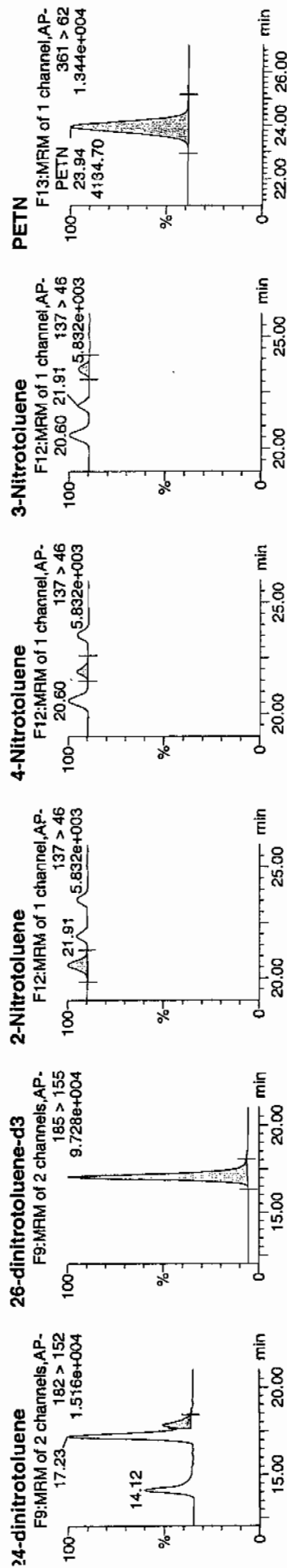
/ial: 1:1,C

4/14/10



4/14/10

Dataset: C:\MASSLYNX\New_Exp\PRO1041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



ID	Name	Trace	RT	Area	SArea	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/mL)	%Rec	%Dev	S/N
WXX100412-08CRI	HMX	176 > 102	5.20	2530.148	6551.026	2530.148	193.111	bb			45.5593	113.9	13.9	260.0
WXX100412-08CRI	RDX	176 > 102	7.52	1650.456	6551.026	1650.456	125.969	bb			44.0113	110.0	10.0	158.1
WXX100412-08CRI	135-Trinitrobenzene	213 > 183	10.05	2495.999	6551.026	2495.999	190.504	bb			44.0679	110.2	10.2	102.3
WXX100412-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	6551.026		6551.026	6551.026	bb			557.0256	111.4	11.4	567.3
WXX100412-08CRI	13-Dinitrobenzene	168 > 138	11.97	750.260		750.260	57.263	bb			42.8271	107.1	7.1	65.8
WXX100412-08CRI	Tetryl	241 > 181	12.42	647.438		647.438	49.415	db			38.1208	95.3	-4.7	95.8
WXX100412-08CRI	Nitrobenzene	123 > 46	13.37	355.510		355.510	27.134	bb			43.2553	108.1	8.1	41.0
WXX100412-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.28	1103.634	38026.156	1103.634	14.512	MM	14-Apr-10	09:09:52	42.9637	107.4	7.4	52.5
WXX100412-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.16	1611.644	38026.156	1611.644	21.191	bb			41.3732	103.4	3.4	158.1
WXX100412-08CRI	246-Trinitrotoluene	227 > 210	15.10	1563.702	38026.156	1563.702	20.561	bb			47.2628	118.2	18.2	169.3
WXX100412-08CRI	34-dinitrotoluene	182 > 152	14.12	1604.344	38026.156	1604.344	21.095	bb			20.4584	102.3	2.3	75.6
WXX100412-08CRI	26-dinitrotoluene	182 > 152	17.23	3819.371	38026.156	3819.371	50.220	MM	14-Apr-10	09:12:11	42.4324	106.1	6.1	195.8
WXX100412-08CRI	24-dinitrotoluene	182 > 152	17.84	858.314	38026.156	858.314	11.286	MM	14-Apr-10	09:14:59	43.2401	108.1	8.1	43.5
WXX100412-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	38026.156		38026.156	38026.156	bb			543.4920	108.7	8.7	2125.4
WXX100412-08CRI	2-Nitrotoluene	137 > 46	20.60	290.400	38026.156	290.400	3.818	bb			44.0987	110.2	10.2	85.6
WXX100412-08CRI	4-Nitrotoluene	137 > 46	21.91	127.979	38026.156	127.979	1.683	bb			40.5690	101.4	1.4	45.5
WXX100412-08CRI	3-Nitrotoluene	137 > 46	23.55	141.213	38026.156	141.213	1.857	bb			31.8477	79.6	-20.4	45.1
WXX100412-08CRI	PETN	361 > 62	23.94	4134.703	38026.156	4134.703	54.367	bb			44.8806	112.2	12.2	1420.3

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/13/10
 Time of Injection 2140
 Standard Number WXX100412-08CRI
 Data File EXP0412062a

HMX	113.9
RDX	110.0
135-TNB	100.2
13-DNB	107.1
Tetryl	95.3
Nitrobenzene	108.1
4A-26-DNT	107.4
2A-46-DNT	103.4
246-TNT	118.2
34-DNT(surr)	102.3
26-DNT	106.1
24-DNT	108.1
2-NT	110.2
4-NT	101.4
3-NT	79.6
PETN	112.2

Total 1683.5

Average 105.2

done 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): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220013.wiff

Analysis Date: 22-MAR-10 18:21

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	89.6	90	
2,6-Diamino-4-nitrotoluene	100	83	83	
3,4-Dinitrotoluene	50	41.8	84	
3,5-Dinitroaniline	100	88.7	89	
TATB	100	88.1	88	
tris(o-cresyl) phosphate	100	104	104	

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%

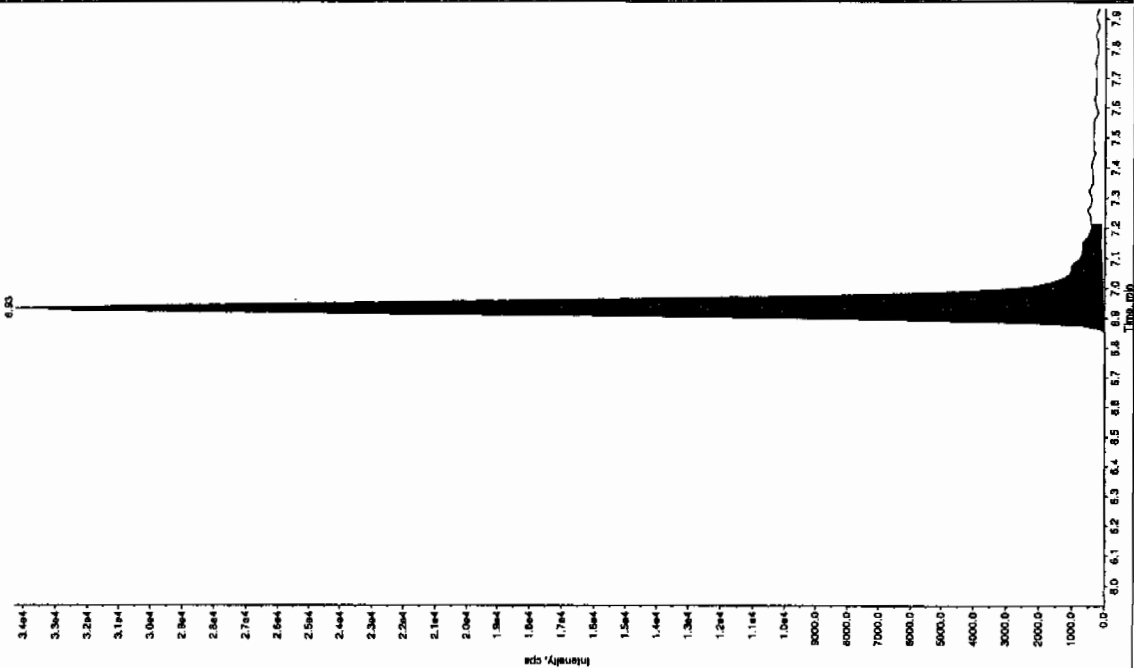
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

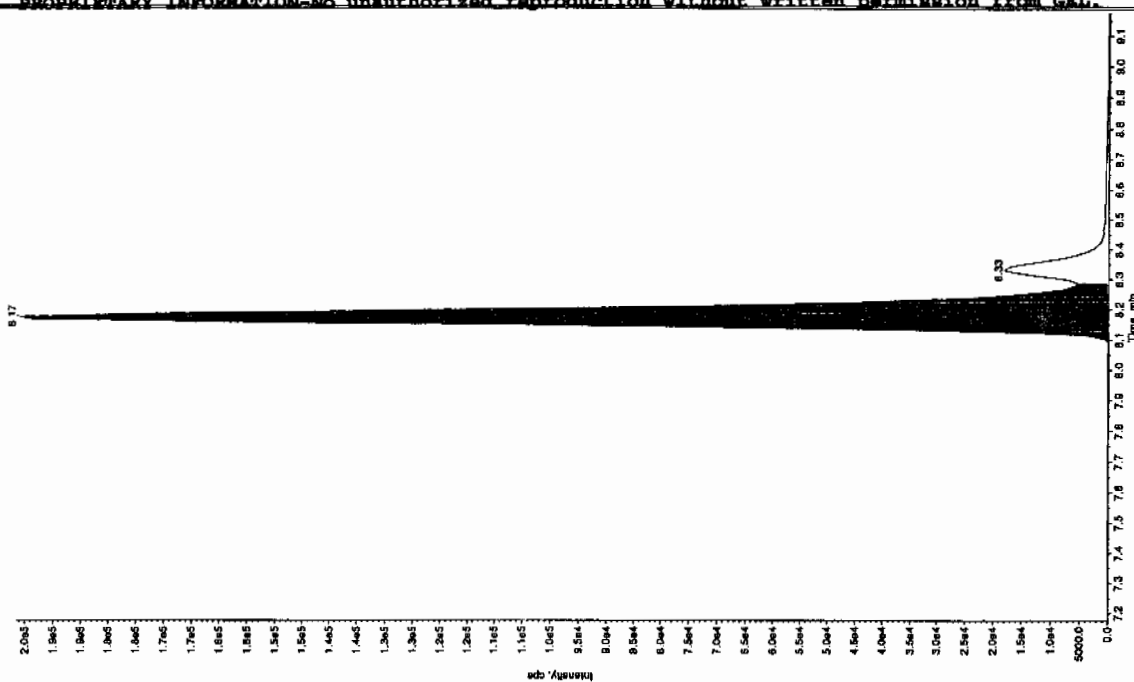
Sample Name: "WXX100322-27CR1" Sample ID: "H1LER" File: "EXS0322013.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 58.7 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 6:21:29 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 1.36e+005 counts
 Height: 34234.207 cps
 Start Time: 6.84 min
 End Time: 7.21 min



Sample Name: "WXX100322-27CR1" Sample ID: "H1LER" File: "EXS0322013.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0/160.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 58.7 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 6:21:29 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 7.81e+005 counts
 Height: 196214.371 cps
 Start Time: 8.08 min
 End Time: 8.29 min



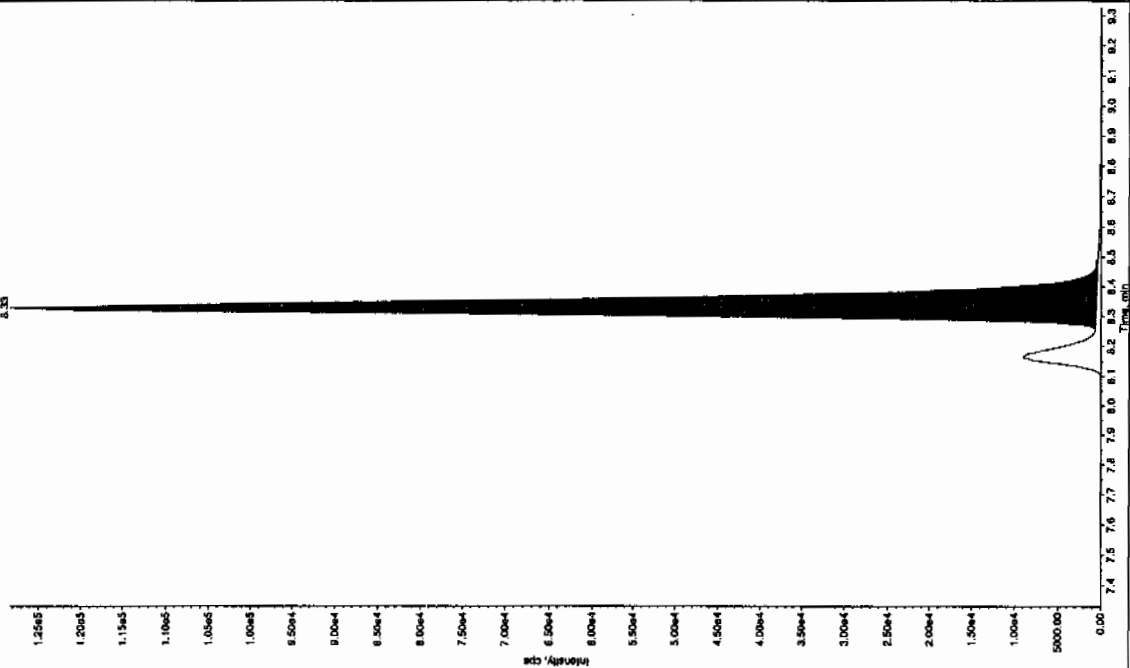
Sample Name: "WXX100322-2701" Sample ID: "111ER" File: "EX030322013.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"

Comment: "LCMSEXP_C" Annotation: ""
Sample Index: 1

Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 41.0 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 6:21:29 PM

Modified: No
Proc. Algorithm: IntelliQuan - IGA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.33 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.33 min
Area: 4.75e+005 counts
Height: 127150.083 cps
Start Time: 8.26 min
End Time: 8.52 min



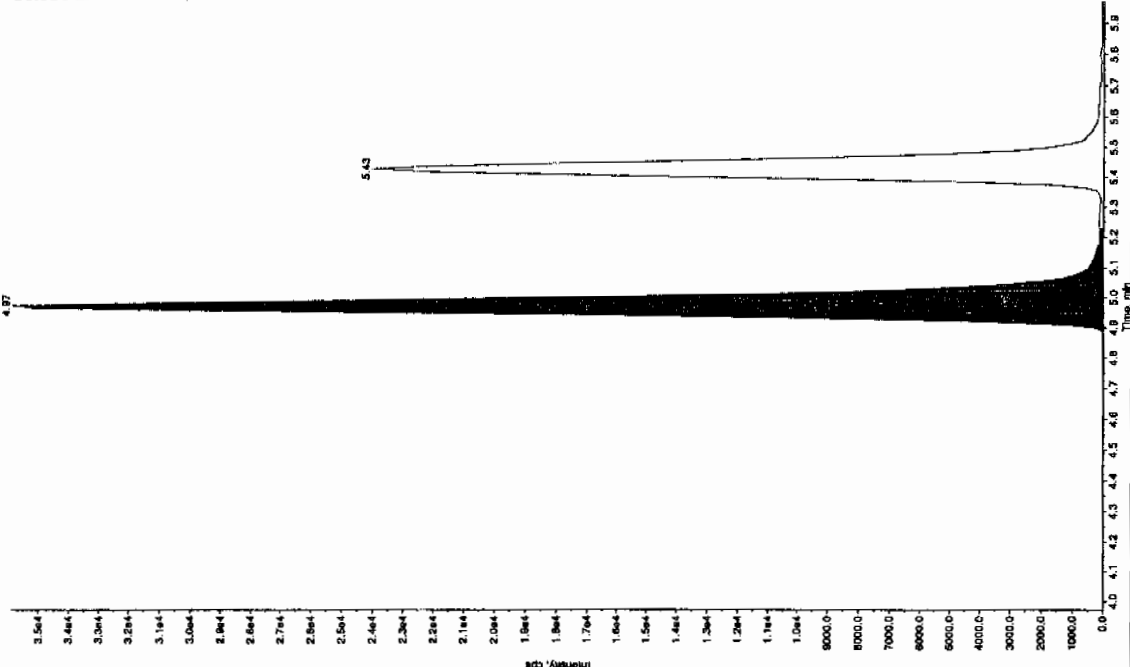
Sample Name: "WXX100322-2701" Sample ID: "111ER" File: "EX030322013.wif"
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0465.0 amu"

Comment: "LCMSEXP_C" Annotation: ""
Sample Index: 1

Sample Type: QC
Concentration: 100.0 ng/mL
Calculated Conc: 85.0 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 6:21:29 PM

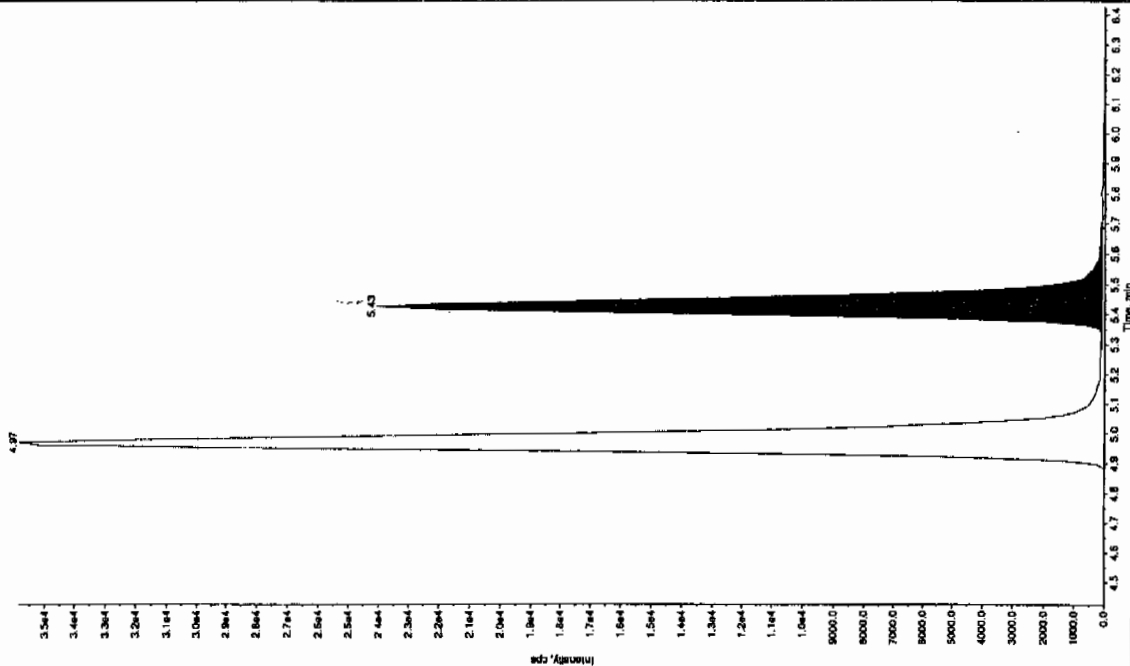
Modified: No
Proc. Algorithm: IntelliQuan - IGA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 4.97 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.97 min
Area: 1.46e+005 counts
Height: 35892.841 cps
Start Time: 4.85 min
End Time: 5.23 min



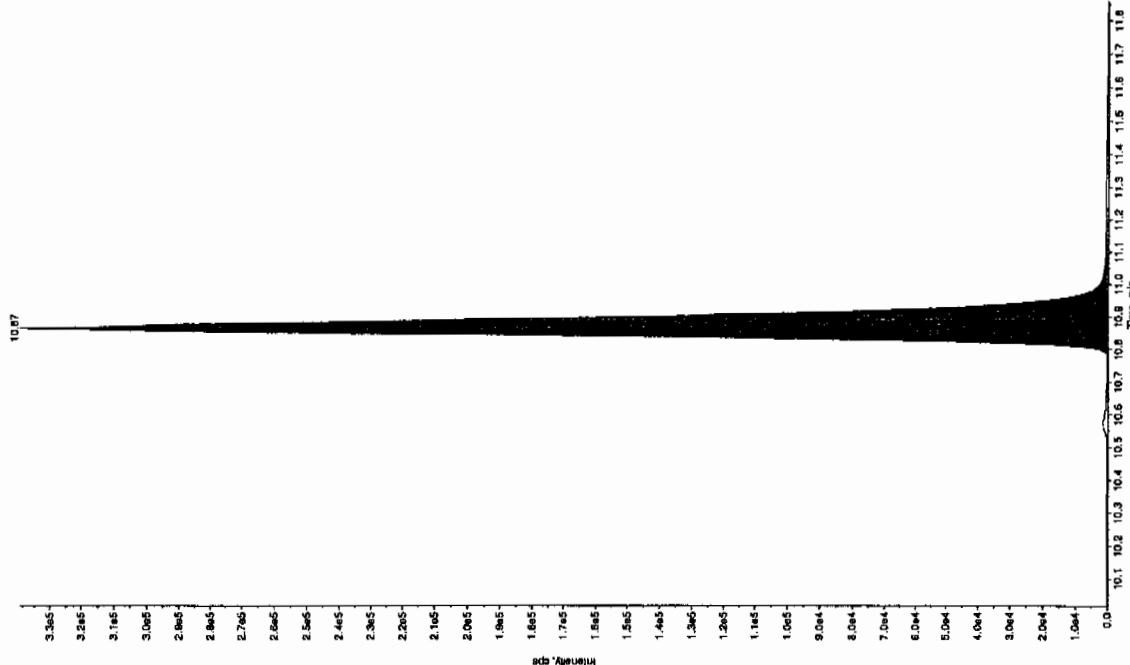
Sample Name: "WXX100322-27CR1" Sample ID: "JLER" File: "EX503220013.wif"
 Peak Name: "24-Diamino-5-nitrothiophene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 104. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 6:21:29 PM
 Modified: No
 Proc Algorithm: IntelliQuan - IQA
 Min. Peak Height: 150.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Area: 9.59e+004 counts
 Height: 23953.539 cps
 Start Time: 5.32 min
 End Time: 5.73 min



Sample Name: "WXX100322-27CR1" Sample ID: "JLER" File: "EX503220013.wif"
 Peak Name: "1,1'-bis(4-chlorophenyl) phosphazene" Mass(es): "369.1/31.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 104. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 6:21:29 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.31e+006 counts
 Height: 339322.876 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220022.wiff

Analysis Date: 22-MAR-10 20:42

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	525	105	
2,6-Diamino-4-nitrotoluene	500	533	107	
3,4-Dinitrotoluene	250	240	96	
3,5-Dinitroaniline	500	533	107	
TATB	500	538	108	
tris(o-cresyl) phosphate	500	503	101	

Recovery Limits:

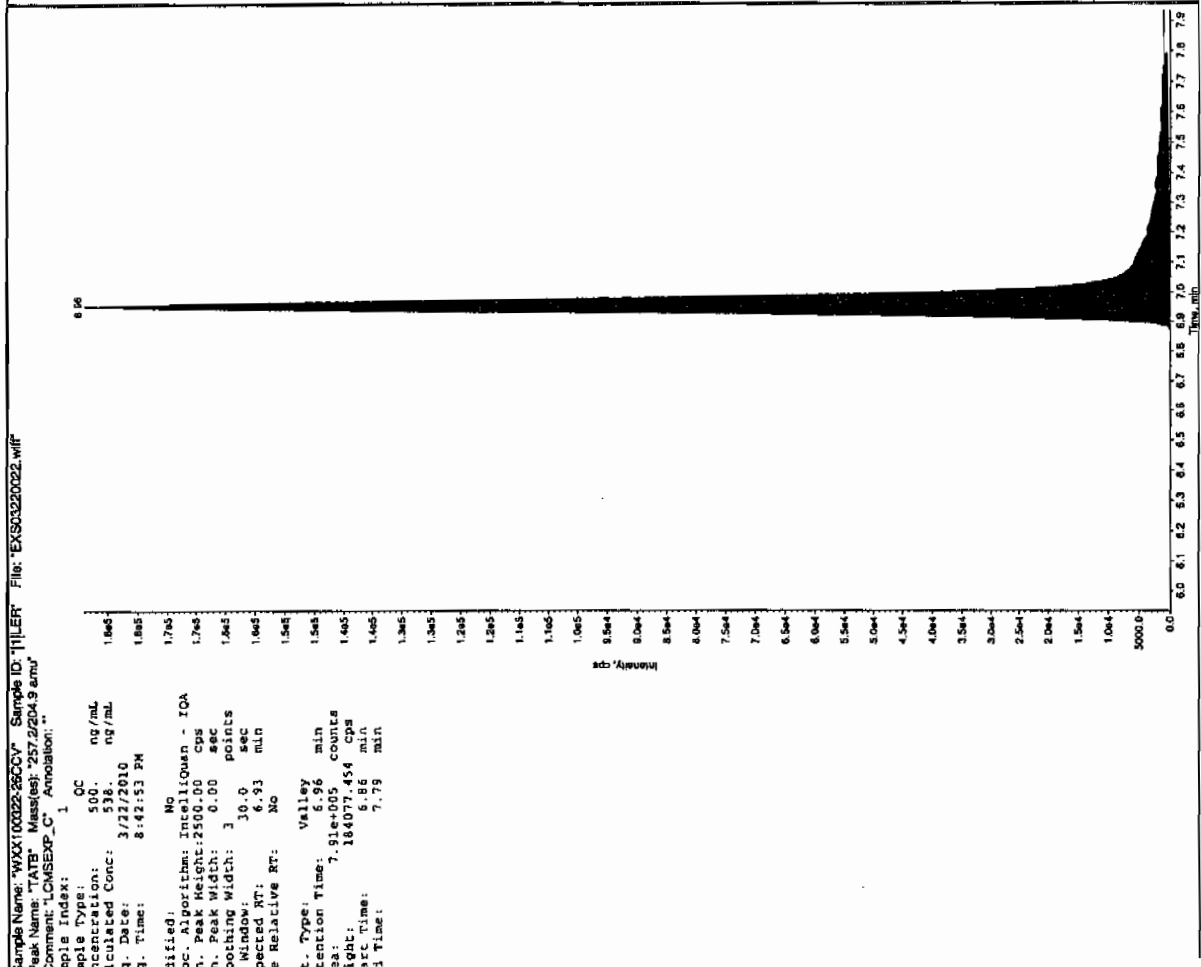
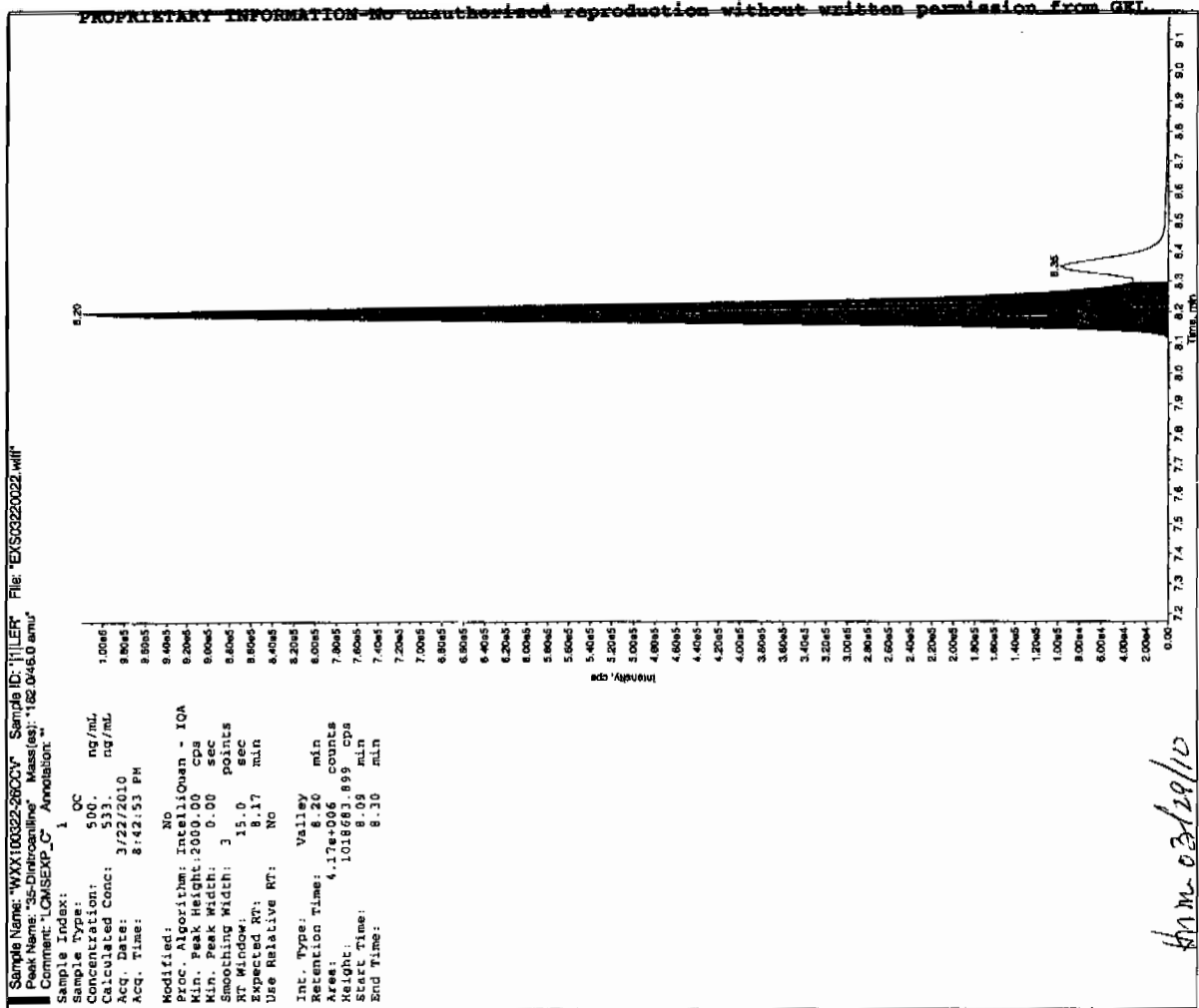
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

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



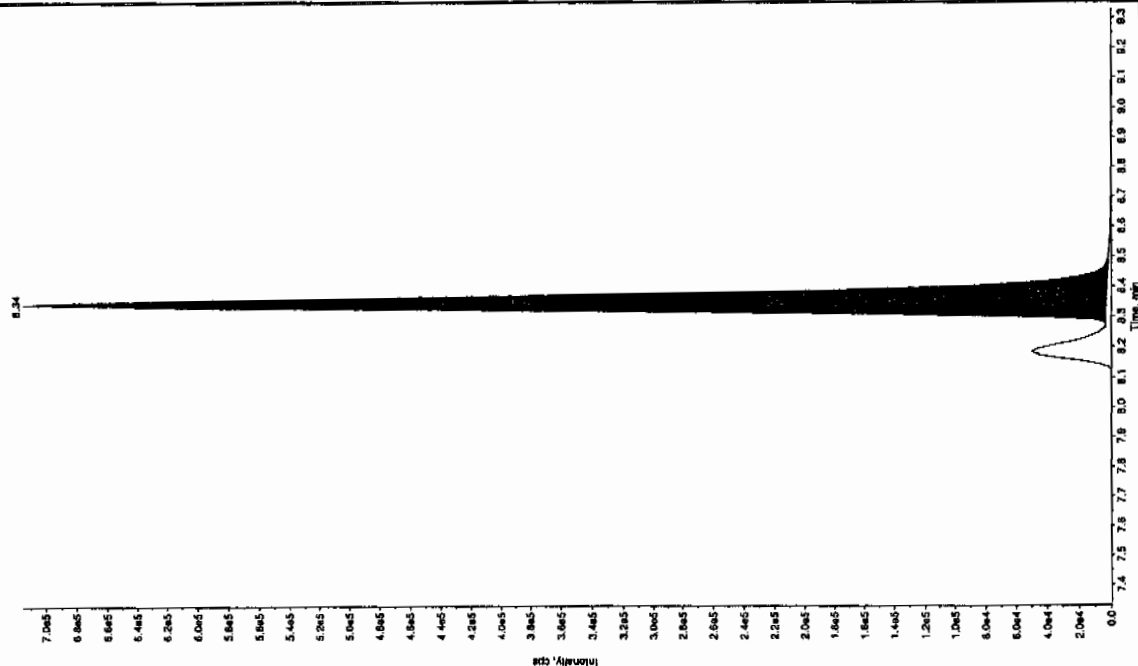
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

LCM 3/27/10

4/11/10 03/29/10

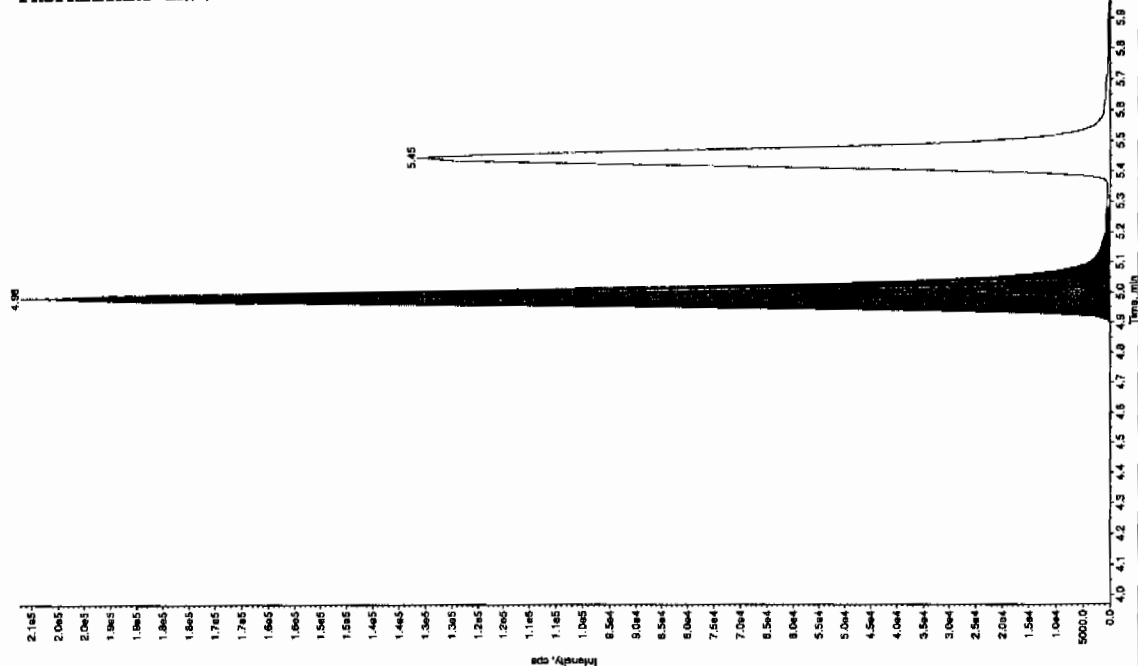
Sample Name: "WXX100322-250CV" Sample ID: "JLER" File: "EXS0320022.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 240. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:42:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 2.63e+006 counts
 Height: 712845.276 cps
 Start Time: 8.27 min
 End Time: 8.56 min



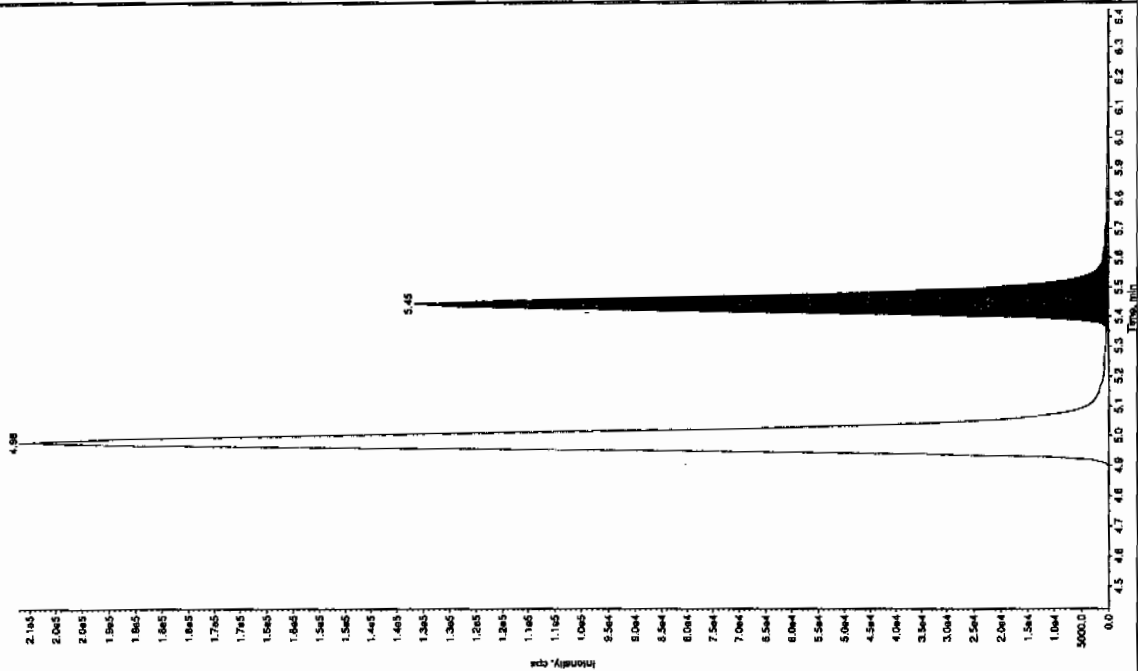
Sample Name: "WXX100322-250CV" Sample ID: "JLER" File: "EXS0320022.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3727201.0 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:42:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 30.0 sec
 Expected RT: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 8.38e+005 counts
 Height: 207025.650 cps
 Start Time: 4.88 min
 End Time: 5.28 min



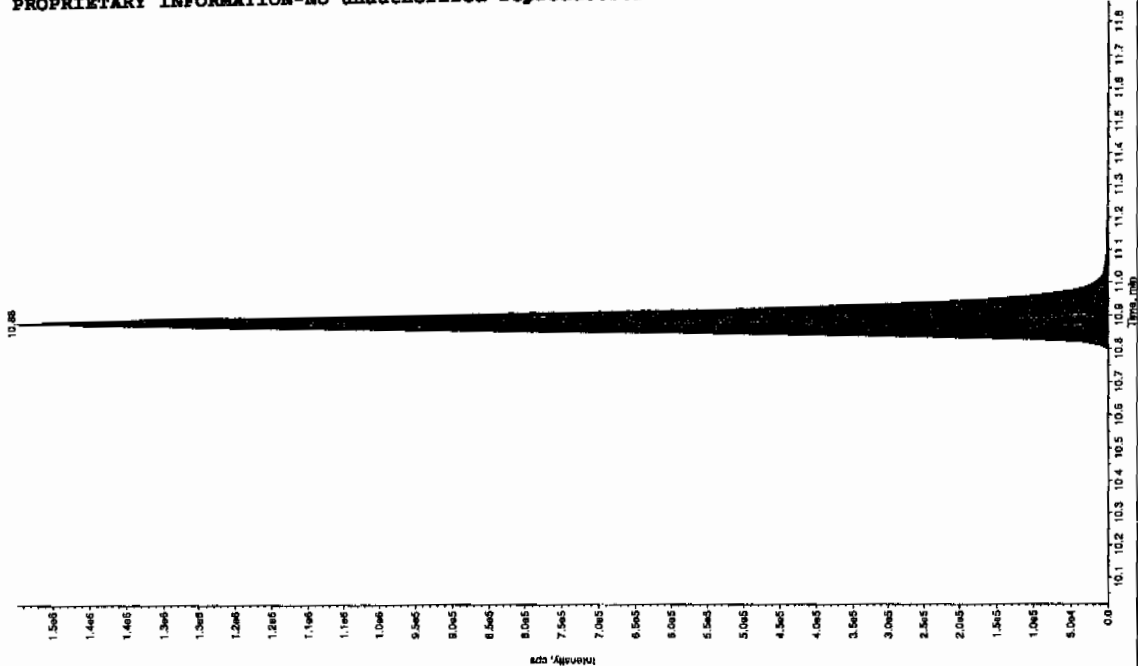
Sample Name: "WXX100322-260CV" Sample ID: "111ER" File: "EX030220022.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 525. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:42:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 150.00 cps
 Min. Peak Width: 0.50 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.45 min
 Area: 5.43e+005 counts
 Height: 131480.484 cps
 Start Time: 5.35 min
 End Time: 5.52 min



Sample Name: "WXX100322-260CV" Sample ID: "111ER" File: "EX030220022.wif"
 Peak Name: "tris(4-oxa) phosphane" Mass(es): "389.197.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 525. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:42:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 4000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.14e+006 counts
 Height: 1499396.740 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220024.wiff

Analysis Date: 22-MAR-10 21:14

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	110	110	
2,6-Diamino-4-nitrotoluene	100	98.6	99	
3,4-Dinitrotoluene	50	47.5	95	
3,5-Dinitroaniline	100	103	103	
TATB	100	95.9	96	
tris(o-cresyl) phosphate	100	106	106	

Recovery Limits:

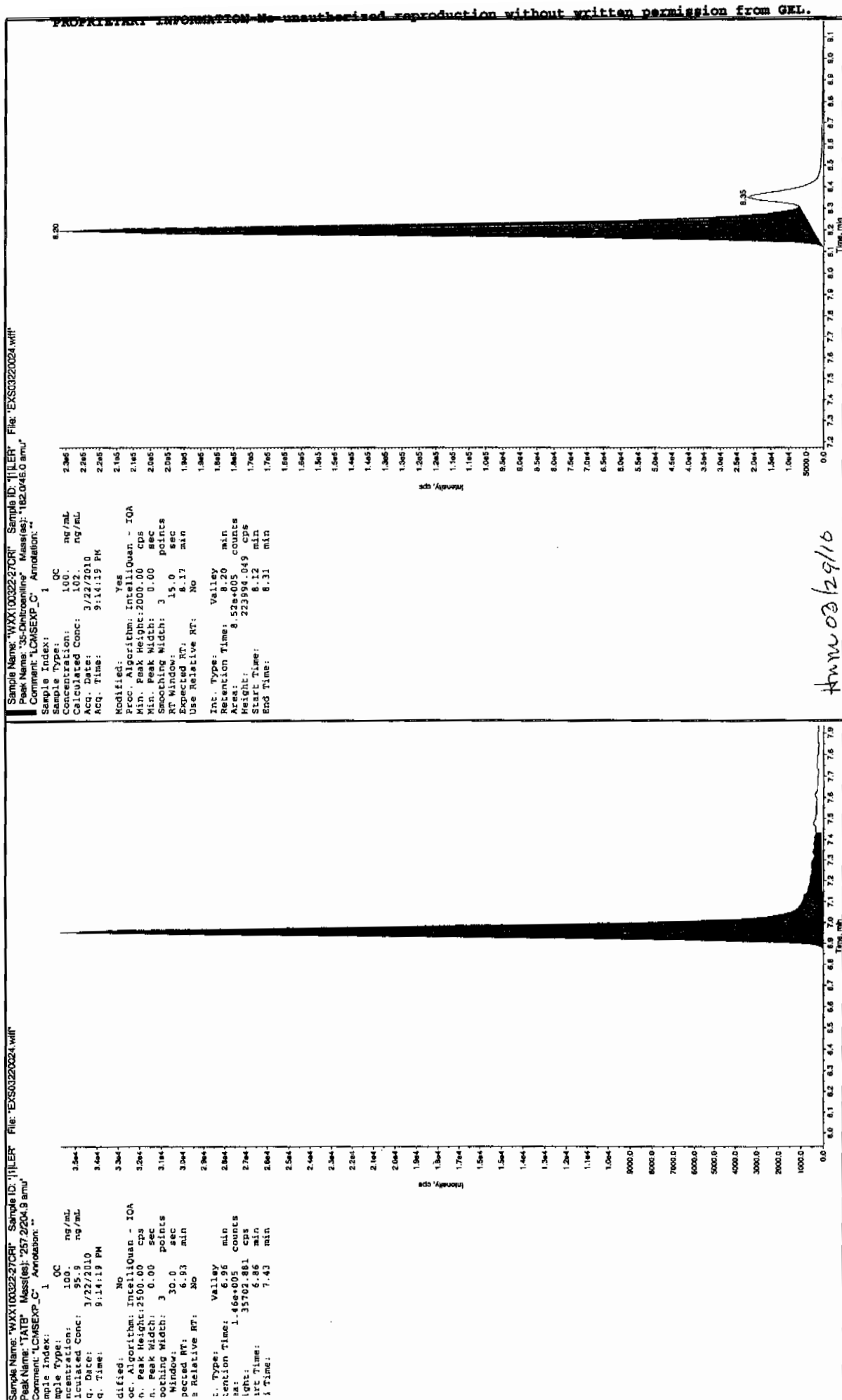
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

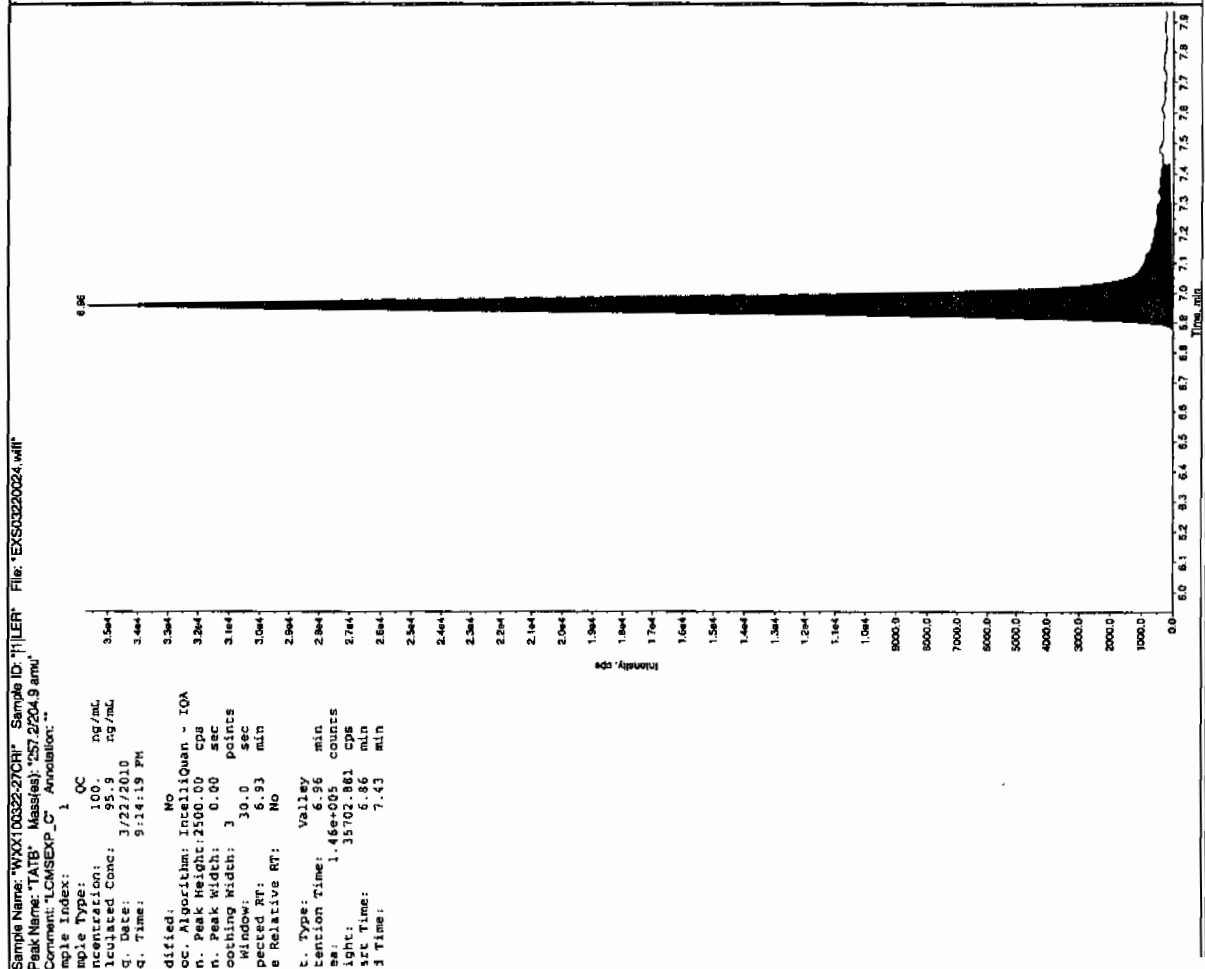
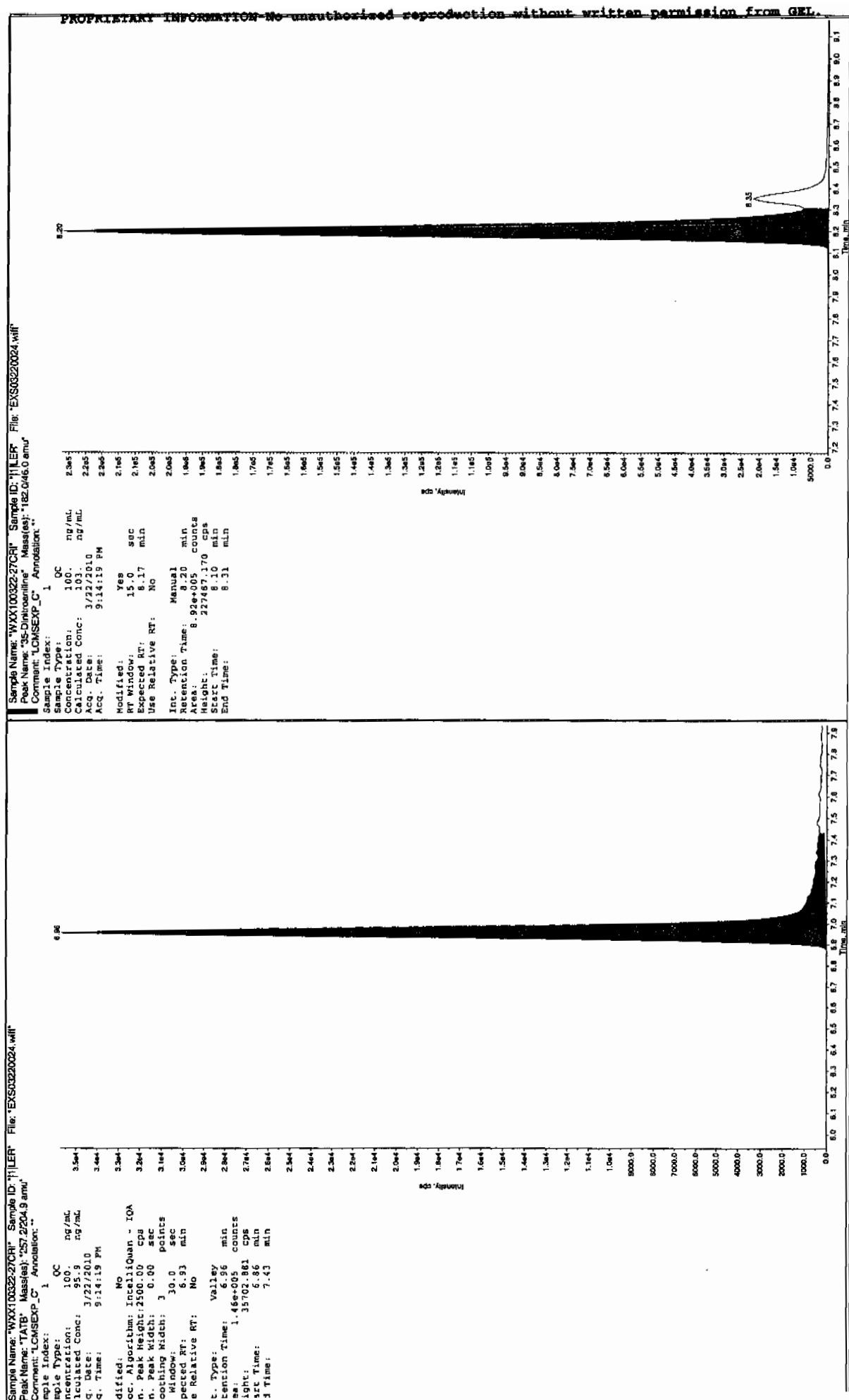
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Sat 3/27/10



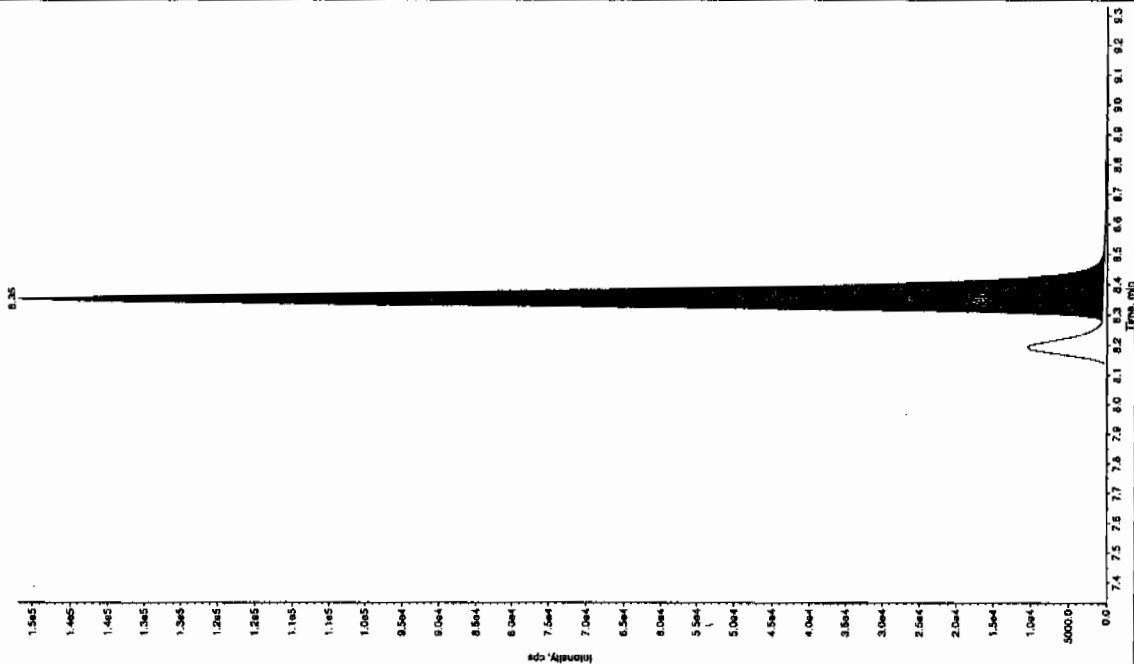
after Jan 31-10



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

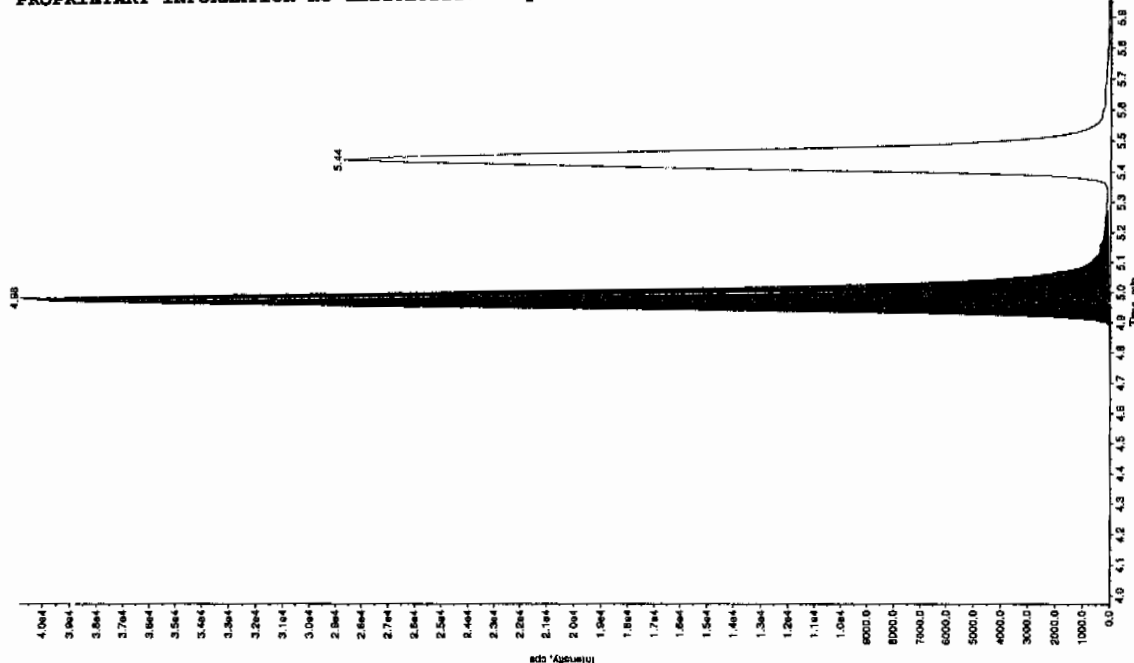
Sample Name: "WXX100322-27CR" Sample ID: "11LER" File: "EX03220024.wif"
Peak Name: "34-Dinitrochlorobenzene" Mass(es): "182.1/151.9 amu"
Comment: "LOWEXP_C" Annotation: ""

Sample Index: 1
Sample Type: OC
Concentration: 50.0 ng/mL
Calculated Conc: 47.5 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 9:14:19 PM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Window: 15.0 sec
Expected RT: 8.33 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.35 min
Area: 5.40e+005 counts
Height: 146445.007 cps
Start Time: 8.28 min
End Time: 8.59 min



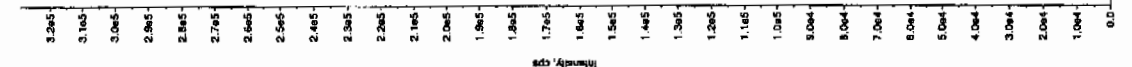
Sample Name: "WXX100322-27CR" Sample ID: "11LER" File: "EX03220024.wif"
Peak Name: "26-Dinitro-4-nitrochlorobenzene" Mass(es): "166.0/66.0 amu"
Comment: "LOWEXP_C" Annotation: ""

Sample Index: 1
Sample Type: OC
Concentration: 100. ng/mL
Calculated Conc: 98.6 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 9:14:19 PM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Window: 30.0 sec
Expected RT: 4.97 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 4.98 min
Area: 1.71e+005 counts
Height: 40827.599 cps
Start Time: 4.87 min
End Time: 5.27 min



Sample Name: WXX100322-27C91 Sample ID: 111ER File: EX503202024.wiff
 Peak Name: 24-Diamino-6-nitrofluorene Mass(es): 156.046.0 amu
 Comment: LCMSEXP_C Annotation: ..

Sample Index: 1
 Sample Type: 100. ng/mL
 Concentration: 106. ng/mL
 Calculated Conc: 3/22/2010
 Acq. Date: 9:14:19 PM
 Acq. Time: 9:14:19 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 1.31e+006 counts
 Height: 328773.193 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: WXX100322-27C91 Sample ID: 111ER File: EX503202024.wiff
 Peak Name: 24-Diamino-6-nitrofluorene Mass(es): 156.046.0 amu
 Comment: LCMSEXP_C Annotation: ..

Sample Index: 1
 Sample Type: 100. ng/mL
 Concentration: 110. ng/mL
 Calculated Conc: 3/22/2010
 Acq. Date: 9:14:19 PM
 Acq. Time: 9:14:19 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 1.18e+006 counts
 Height: 286773.140 cps
 Start Time: 5.31 min
 End Time: 5.85 min



EL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220035.wiff

Analysis Date: 23-MAR-10 00:07

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	629	126	
2,6-Diamino-4-nitrotoluene	500	610	122	
3,4-Dinitrotoluene	250	255	102	
3,5-Dinitroaniline	500	542	108	
TATB	500	550	110	
tris(o-cresyl) phosphate	500	496	99	

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%

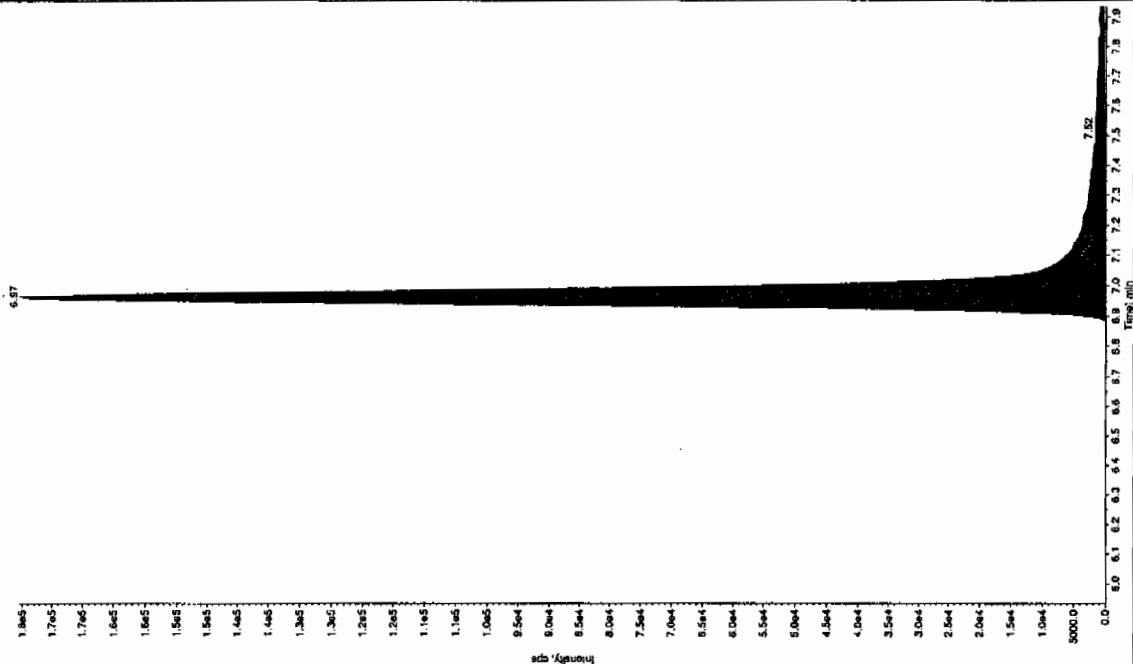
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

San 3/23/10

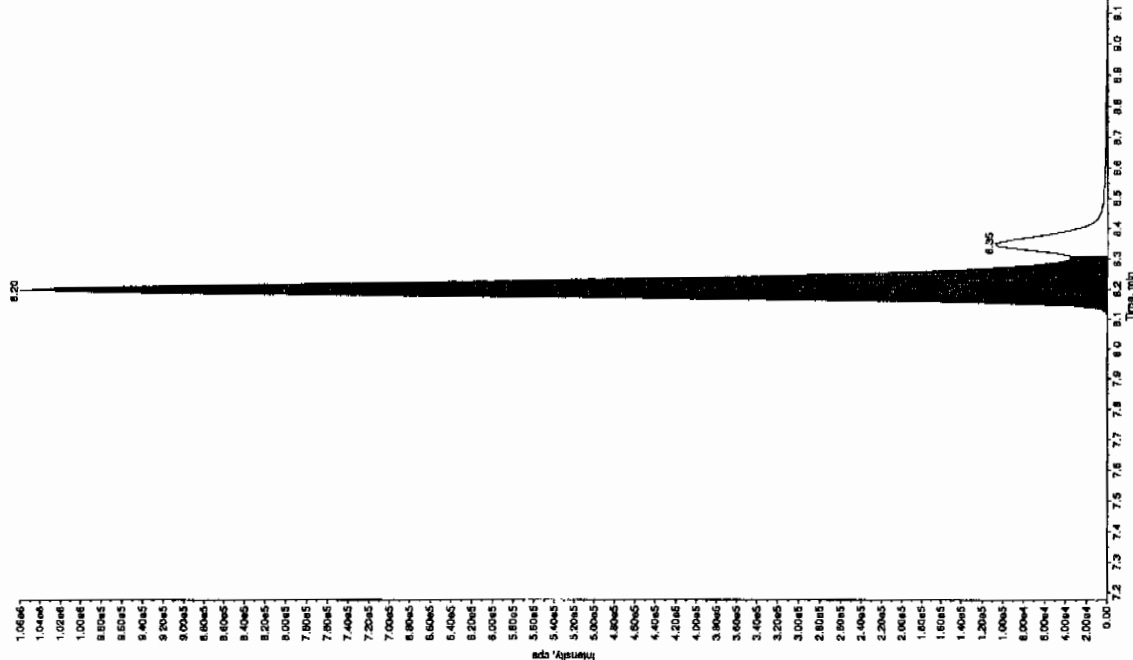
Sample Name: "WXX10322-260CV" Sample ID: "111ER" File: "EXS03220035.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 542. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:07:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.97 min
 Area: 8.10e+005 counts
 Height: 175415.558 cps
 Start Time: 6.86 min
 End Time: 8.11 min

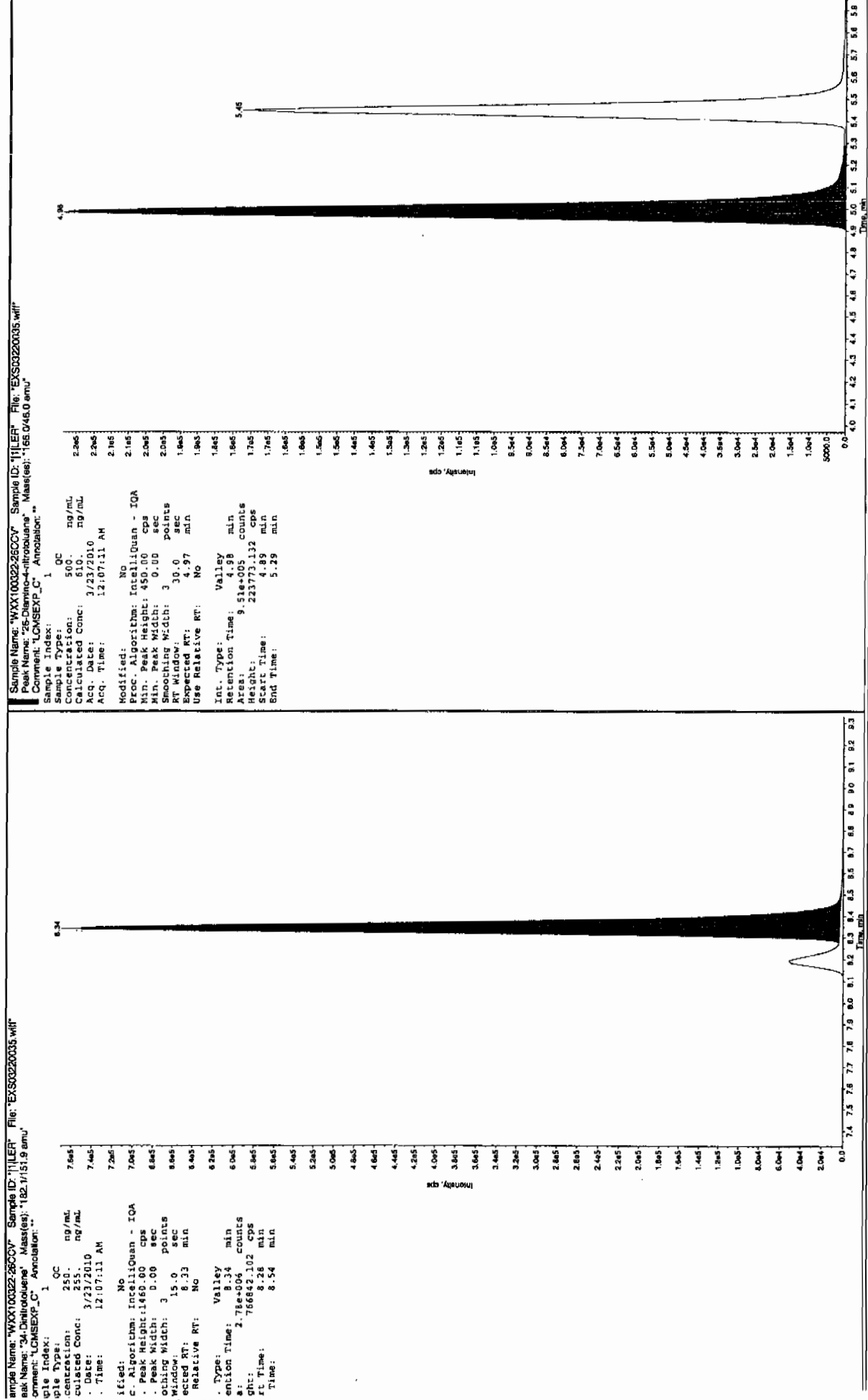


Sample Name: "WXX10322-260CV" Sample ID: "111ER" File: "EXS03220035.wif"
 Peak Name: "35-Dinitrofluorene" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 542. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:07:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 Window: 30.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.20 min
 Area: 4.23e+006 counts
 Height: 1060289.795 cps
 Start Time: 8.10 min
 End Time: 8.31 min

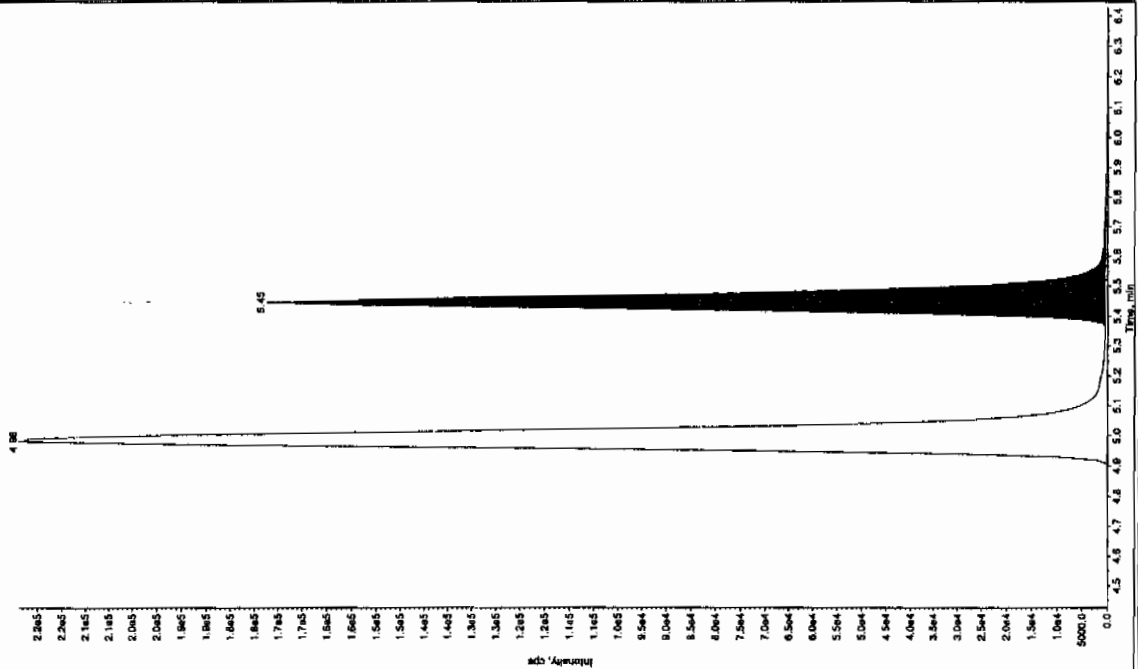


IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



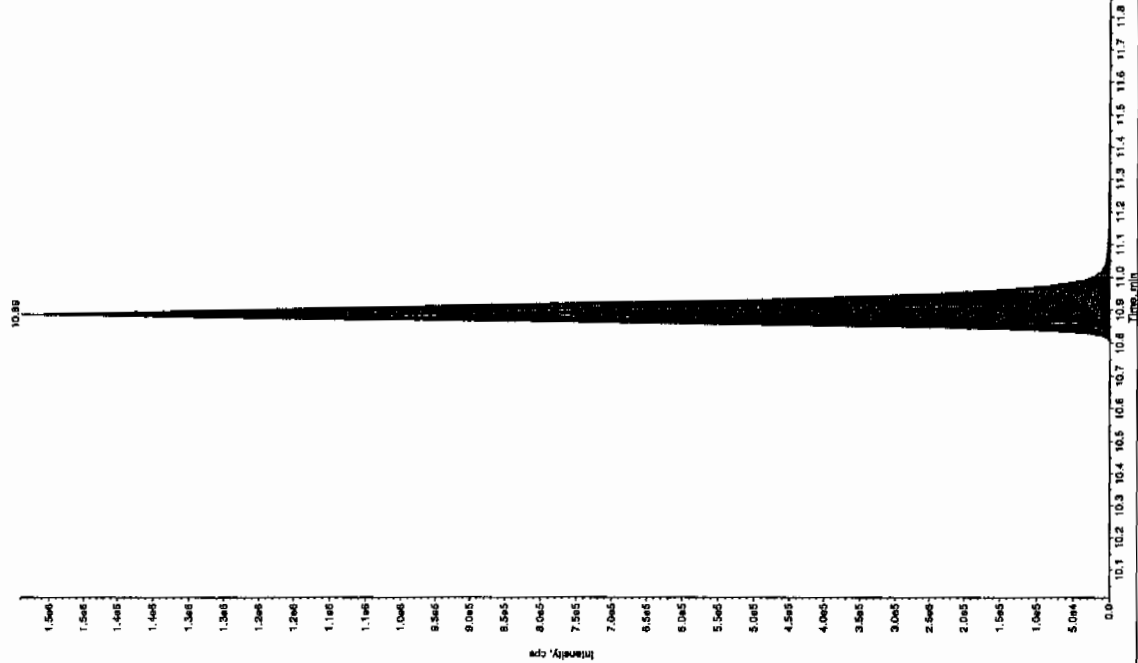
Sample Name: "WXX100322-28CCV" Sample ID: "11111" File: "EXS03220035.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 629. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:07:11 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: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.45 min
 Area: 6.45e+005 counts
 Height: 311960 cps
 Start Time: 5.33 min
 End Time: 5.81 min



Sample Name: "WXX100322-28CCV" Sample ID: "11111" File: "EXS03220035.wif"
 Peak Name: "1,3-bis(4-chlorophenyl)phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 496. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:07:11 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: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.06e+006 counts
 Height: 153960 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220037.wiff

Analysis Date: 23-MAR-10 00:38

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	116	116	
2,6-Diamino-4-nitrotoluene	100	107	107	
3,4-Dinitrotoluene	50	49.8	100	
3,5-Dinitroaniline	100	104	104	
TATB	100	99	99	
tris(o-cresyl) phosphate	100	105	105	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

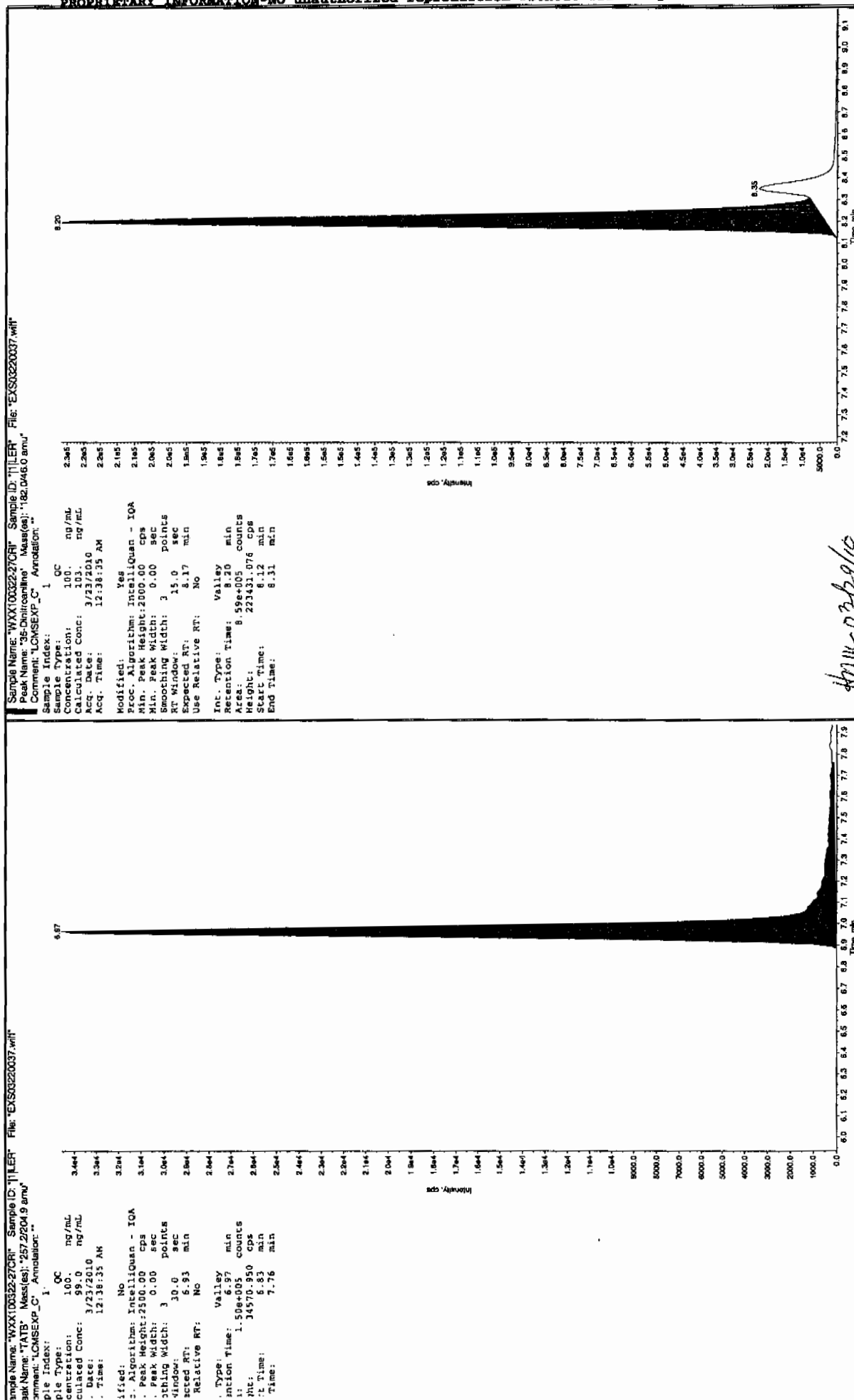
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

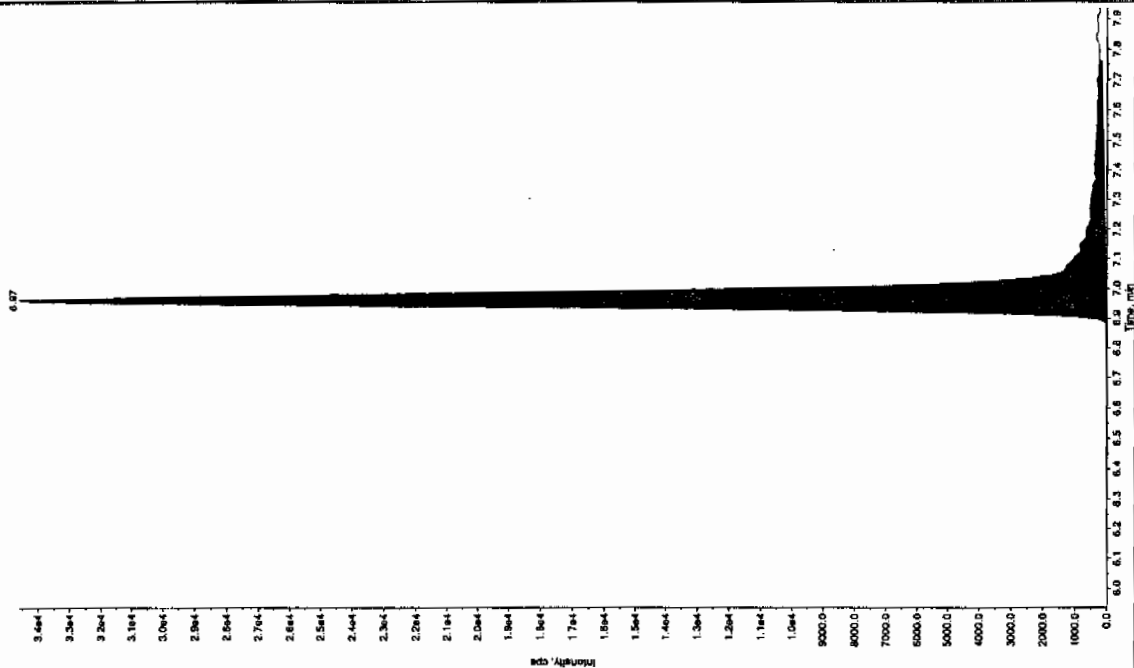
Before Jan 30/10



after Jan 3/27/10

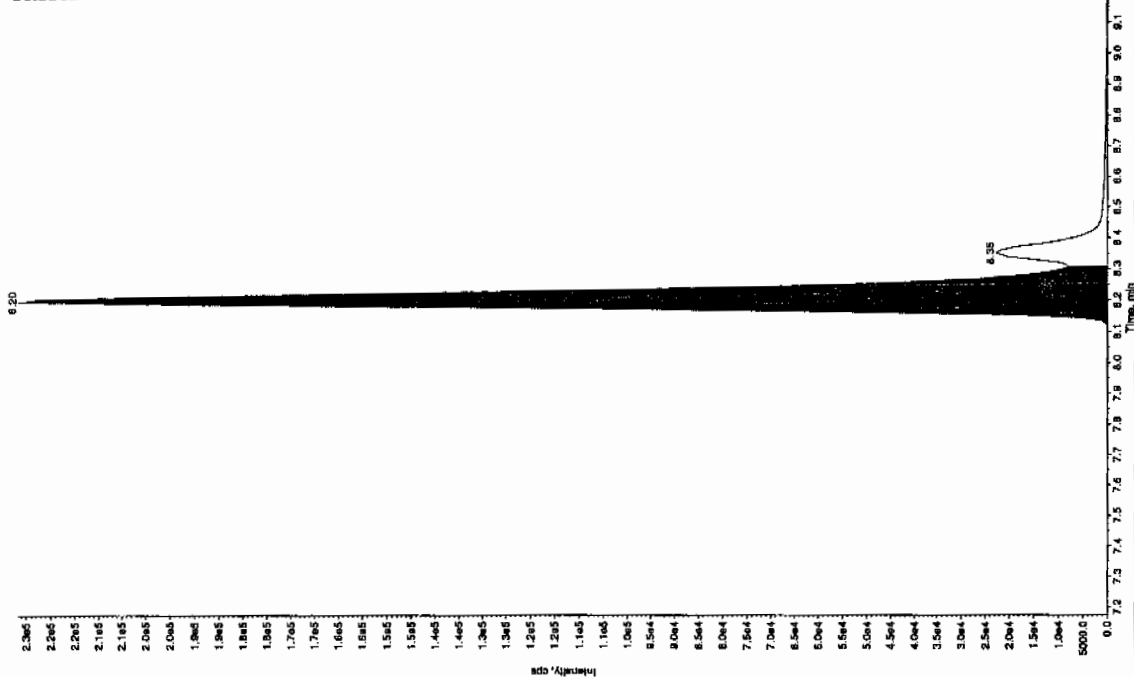
Sample Name: "WXX100322-270R" Sample ID: "11LER" File: "EXS03220037.wif"
 Peak Name: "TATS" Mass(es): "257.2/204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 98.0 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:38:35 AM
 Modified: No
 RT Method: No
 RT: 6.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.97 min
 Area: 1.50e+005 counts
 Height: 34570.950 cps
 Start Time: 6.83 min
 End Time: 7.76 min



Sample Name: "WXX100322-270R" Sample ID: "11LER" File: "EXS03220037.wif"
 Peak Name: "95-Dinitroaniline" Mass(es): "182.0/166.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

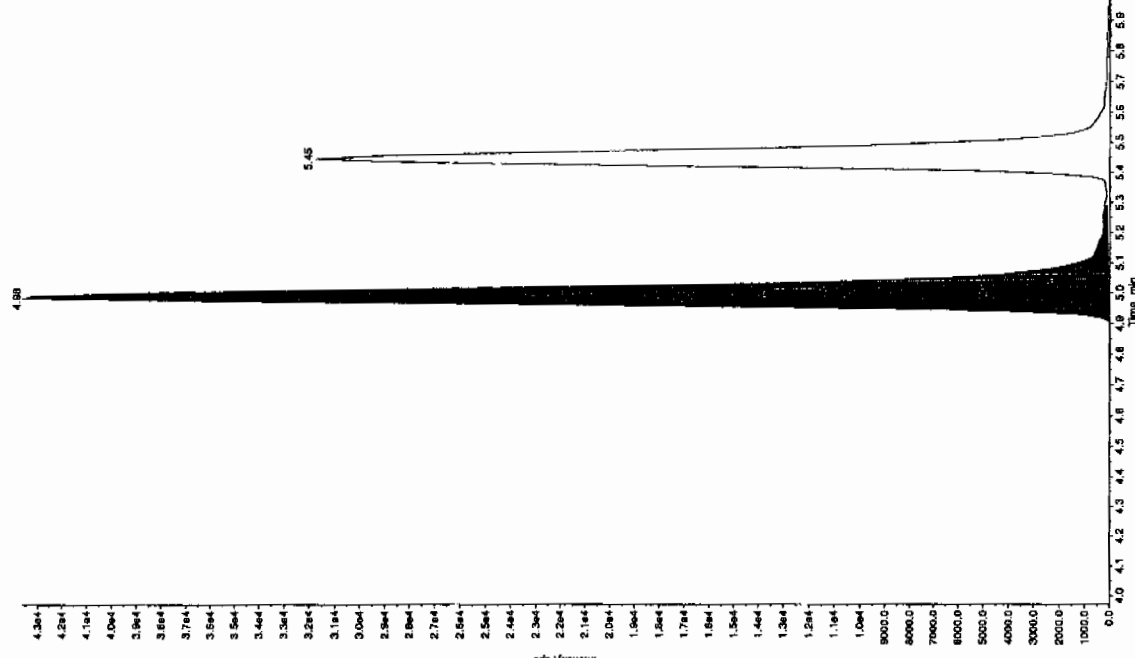
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 104. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:38:35 AM
 Modified: Yes
 RT Method: No
 RT: 8.11 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.11 min
 Area: 230220.729 counts
 Height: 8.11 min
 Start Time: 8.11 min
 End Time: 8.31 min



IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

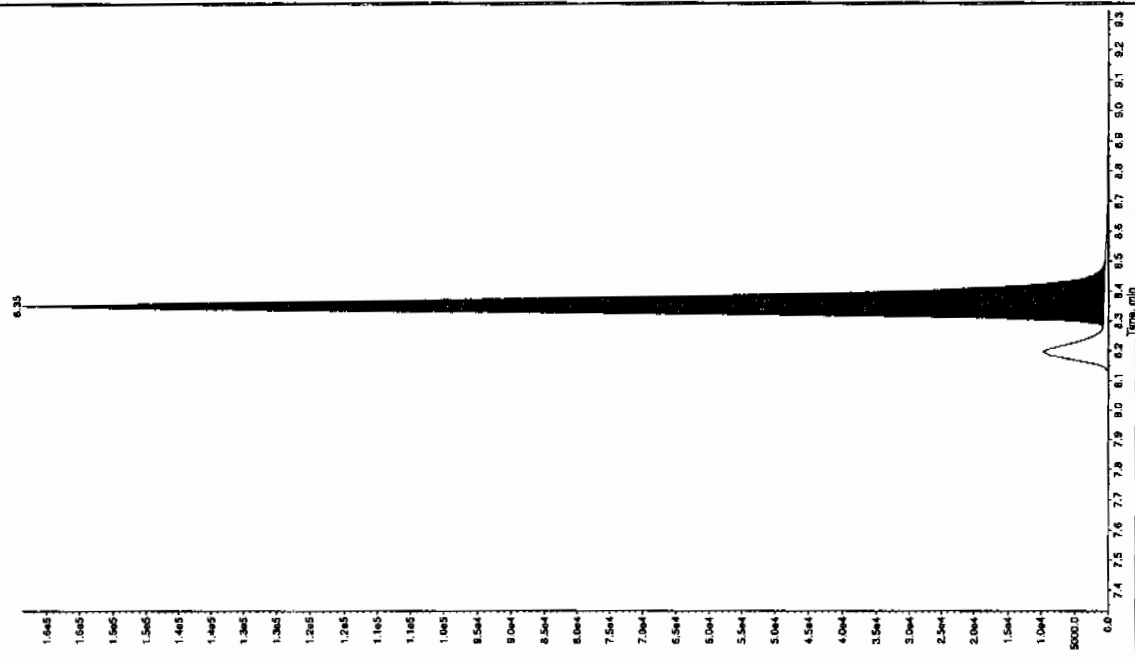
Sample Name: "WXX100322-270H" Sample ID: "111ER" File: "EXS0320037.wif"
 Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 3/23/2010
 Date: 12/30/10
 Acq. Time: 12:38:35 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.84e+006 counts
 Height: 43562.027 cps
 Start Time: 4.89 min
 End Time: 5.25 min

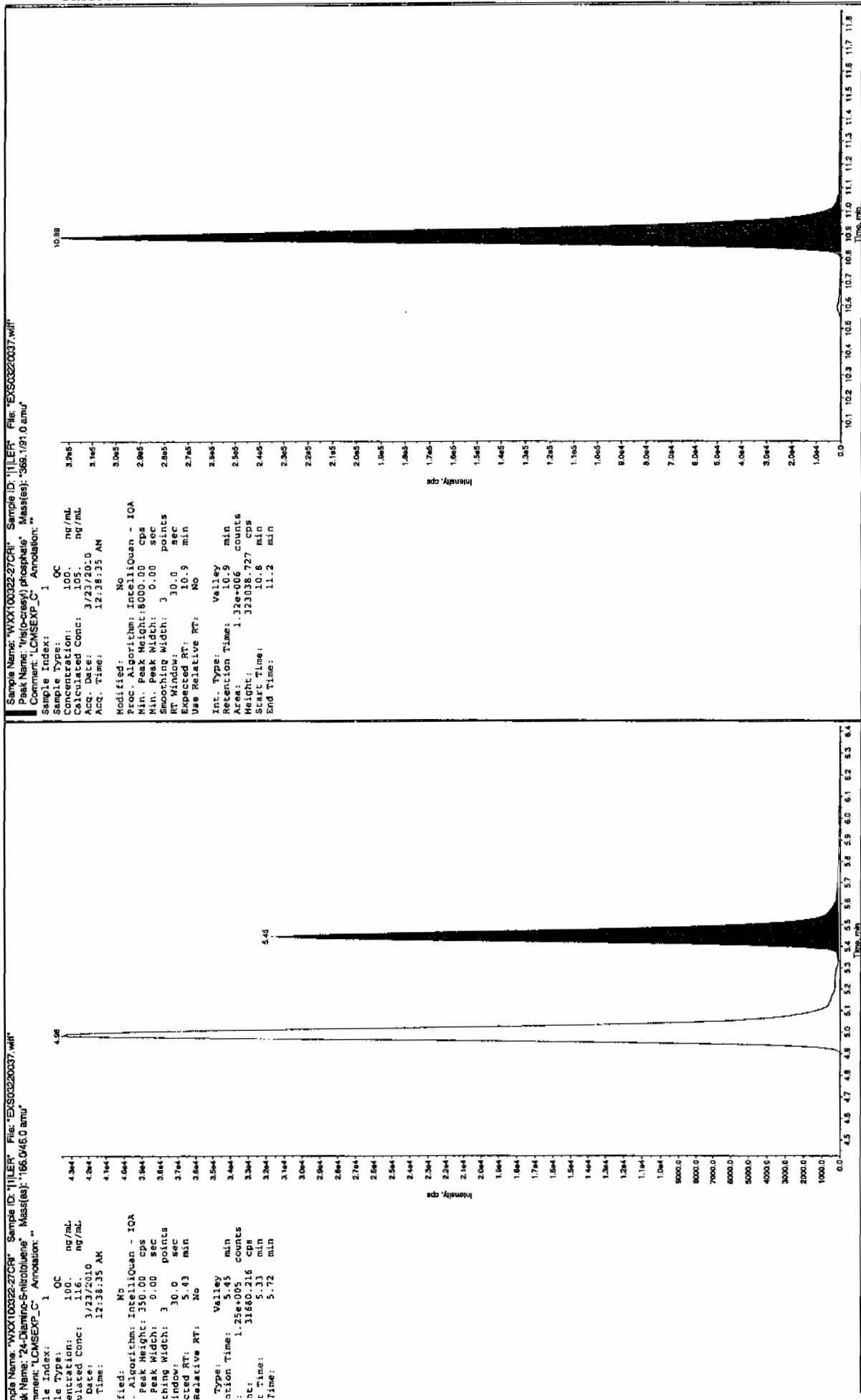


Sample Name: "WXX100322-270H" Sample ID: "111ER" File: "EXS0320037.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 3/23/2010
 Date: 12/30/10
 Acq. Time: 12:38:35 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.65e+005 counts
 Height: 103010.326 cps
 Start Time: 8.28 min
 End Time: 8.54 min



IL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220048.wiff

Analysis Date: 23-MAR-10 03:31

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	581	116	
2,6-Diamino-4-nitrotoluene	500	575	115	
3,4-Dinitrotoluene	250	242	97	
3,5-Dinitroaniline	500	530	106	
TATB	500	514	103	
tris(o-cresyl) phosphate	500	496	99	

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%

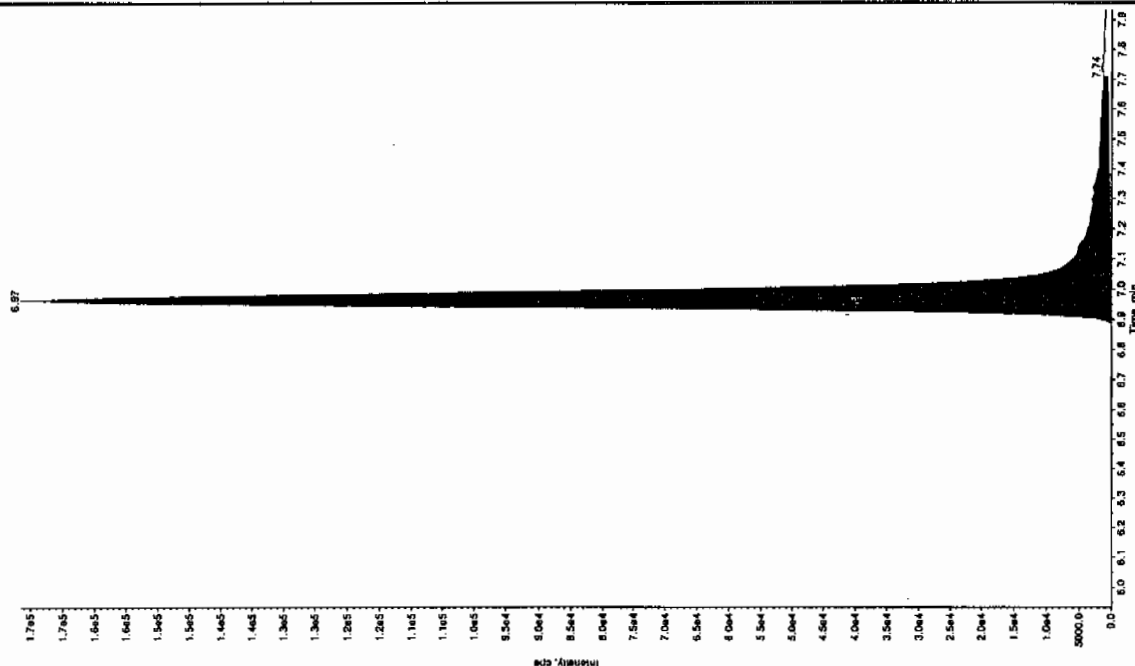
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

San 3/27/10

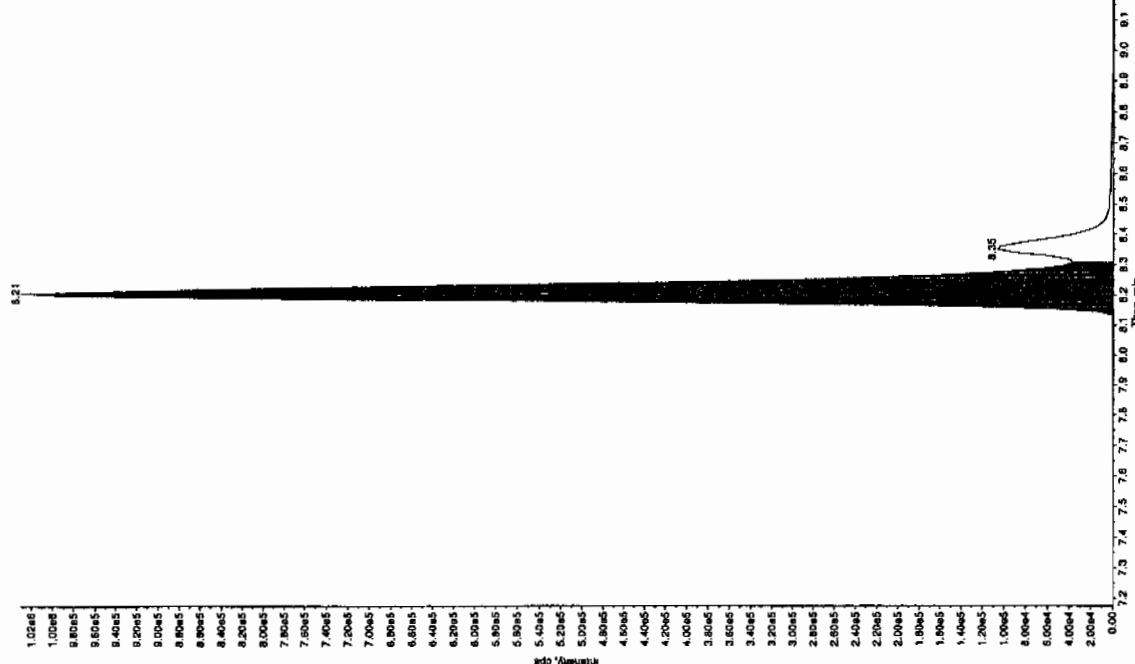
Sample Name: "WXX10032-260CV" Sample ID: "JLEF" File: "EXS0220048.wif"
 Peak Name: "1A1B" Mass(es): "257/2204.9 amu"
 Comment: "LONSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 500 ng/mL
 Calculated Conc: 510 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:31:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 6.97 min
 Area: 7.52e+05 counts
 RT: 1.715e+057 cps
 Start Time: 6.80 min
 End Time: 7.71 min

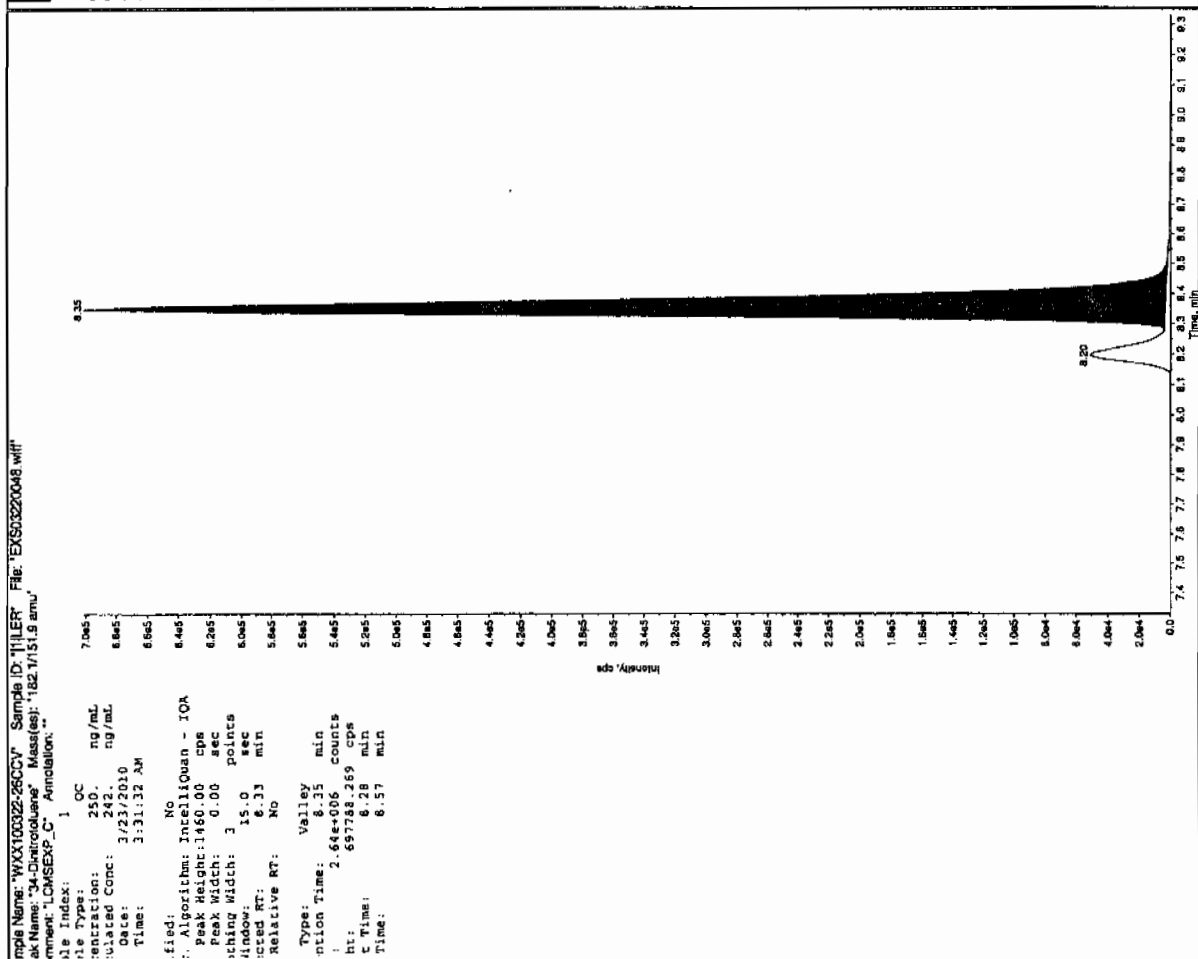
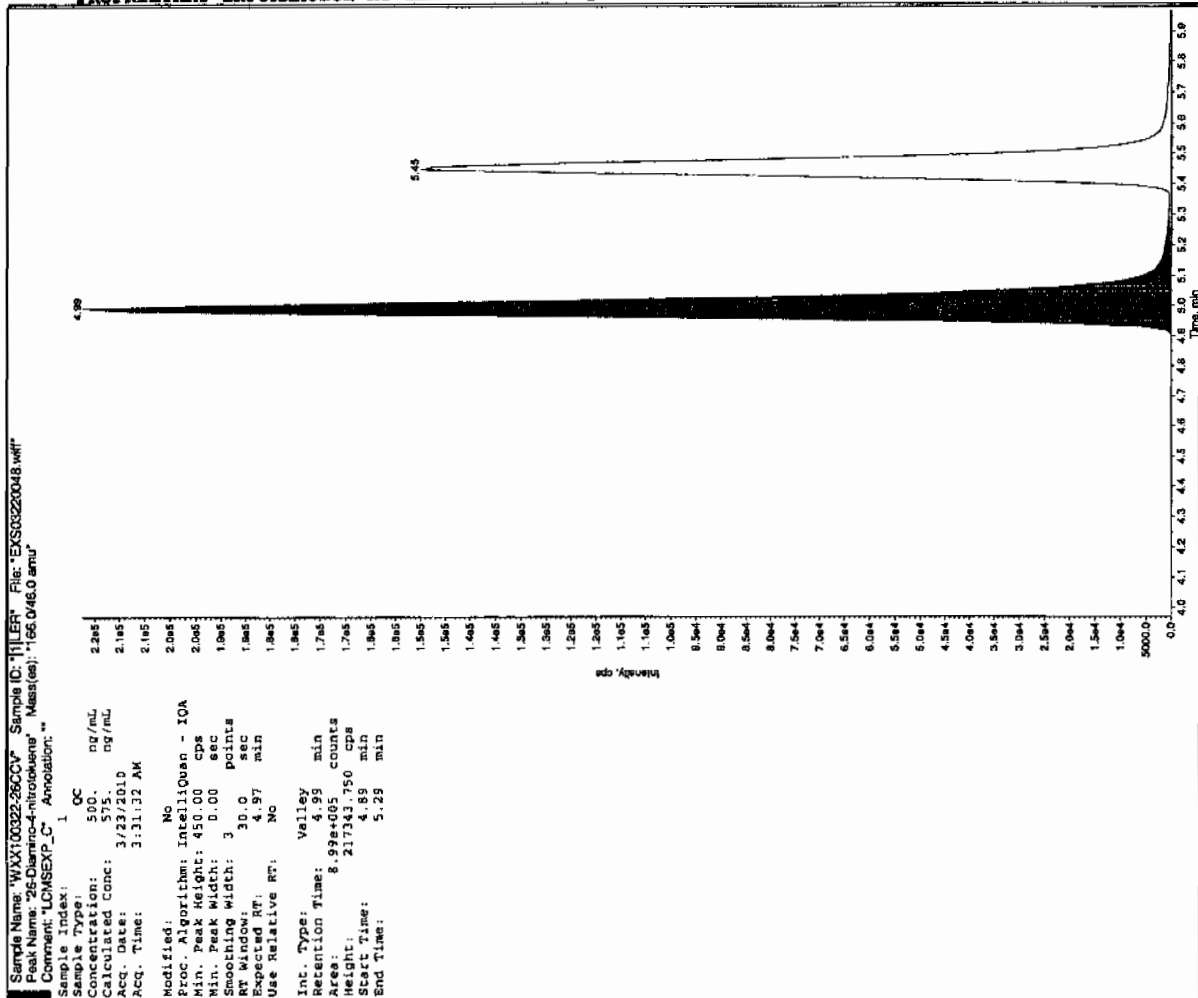


Sample Name: "WXX10032-260CV" Sample ID: "JLEF" File: "EXS0220048.wif"
 Peak Name: "3S-Chromatogram" Mass(es): "182.0460 amu"
 Comment: "LONSEXP_C" Annotation: "

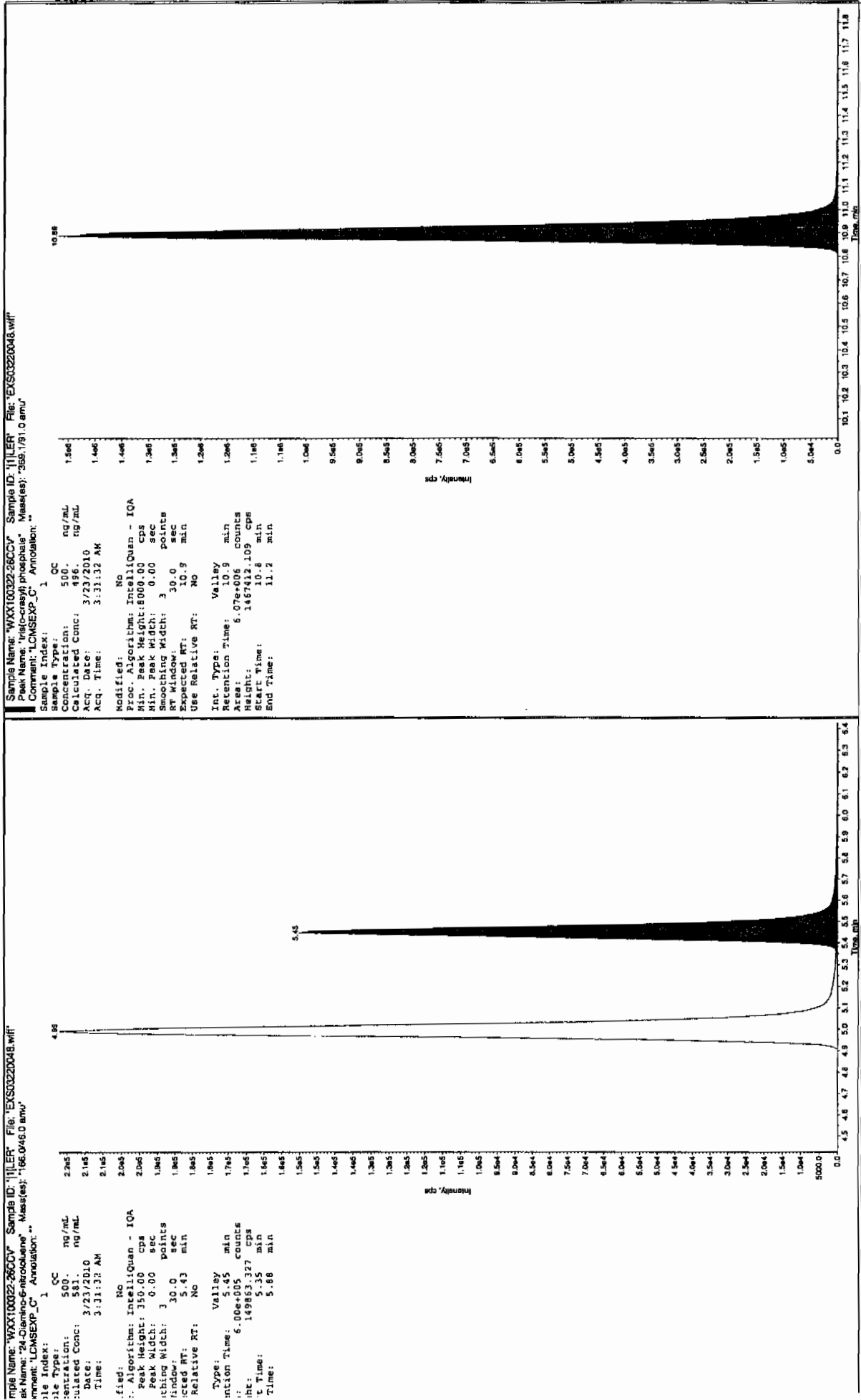
Sample Index: 1
 Sample Type: OC
 Concentration: 500 ng/mL
 Calculated Conc: 510 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:31:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 8.21 min
 Area: 4.15e+05 counts
 RT: 1.029e+037 cps
 Start Time: 8.11 min
 End Time: 8.31 min



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IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220050.wiff

Analysis Date: 23-MAR-10 04:02

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	118	118	
2,6-Diamino-4-nitrotoluene	100	107	107	
3,4-Dinitrotoluene	50	51.3	103	
3,5-Dinitroaniline	100	103	103	
TATB	100	92.4	92	
tris(o-cresyl) phosphate	100	105	105	

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%

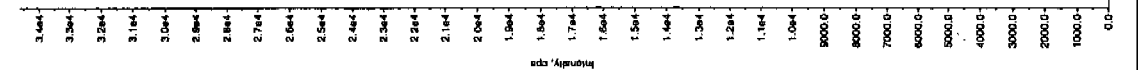
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

lan 3/27/10

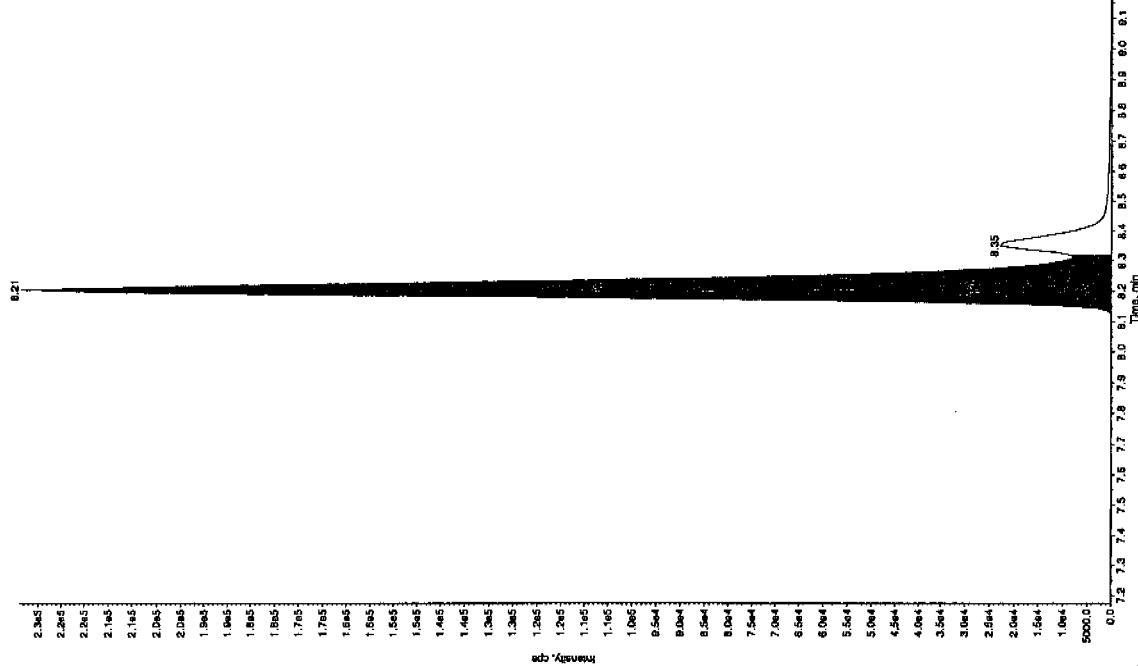
Sample Name: "WXX100322-270R1" Sample ID: "J1LER" File: "EXS03220060.wif"
 Peak Name: "TATB" Mass(es): "257.29204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 103.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:02:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.97 min
 Area: 1.41e+005 counts
 Height: 34593.060 cps
 Start Time: 6.88 min
 End Time: 7.06 min

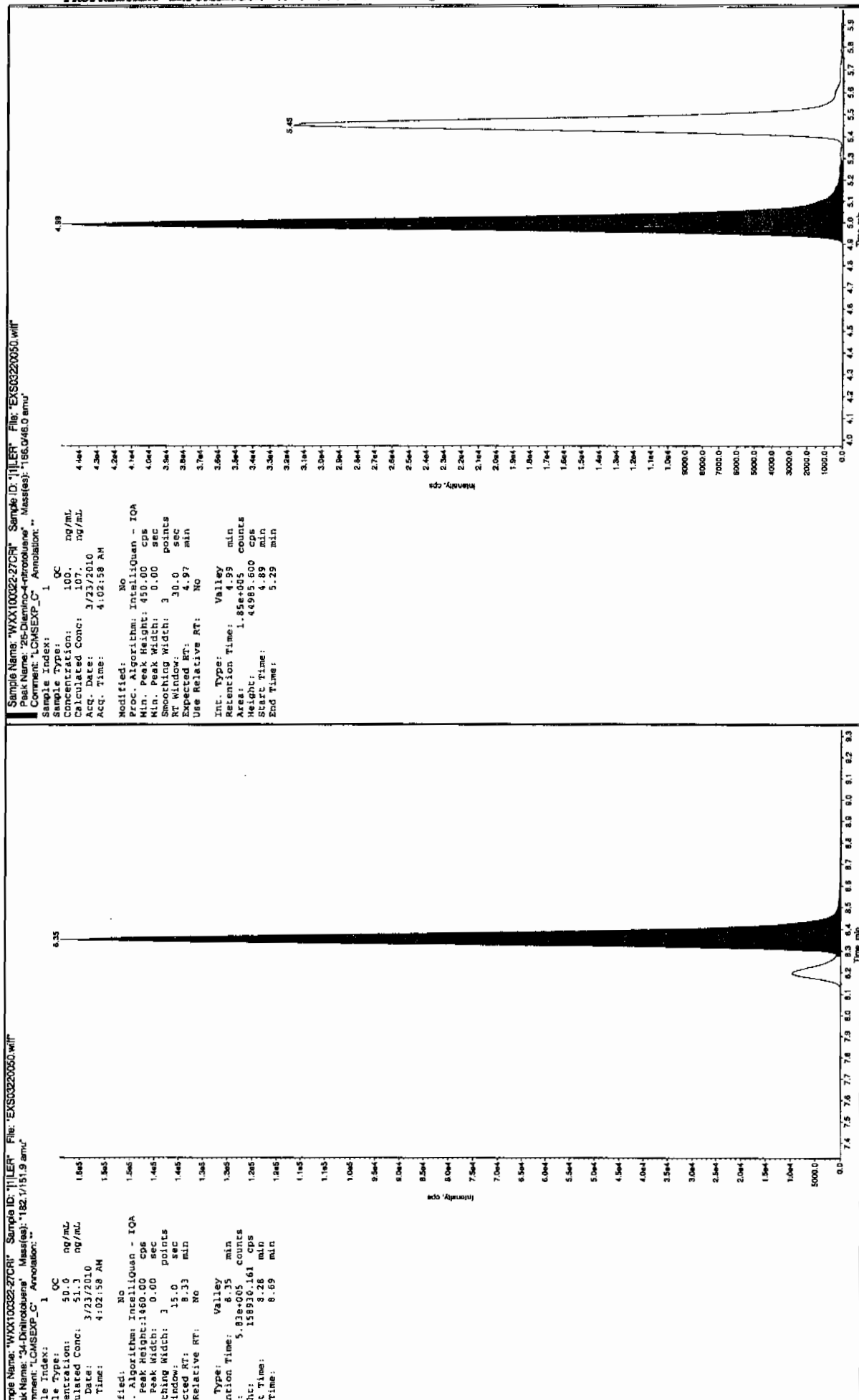


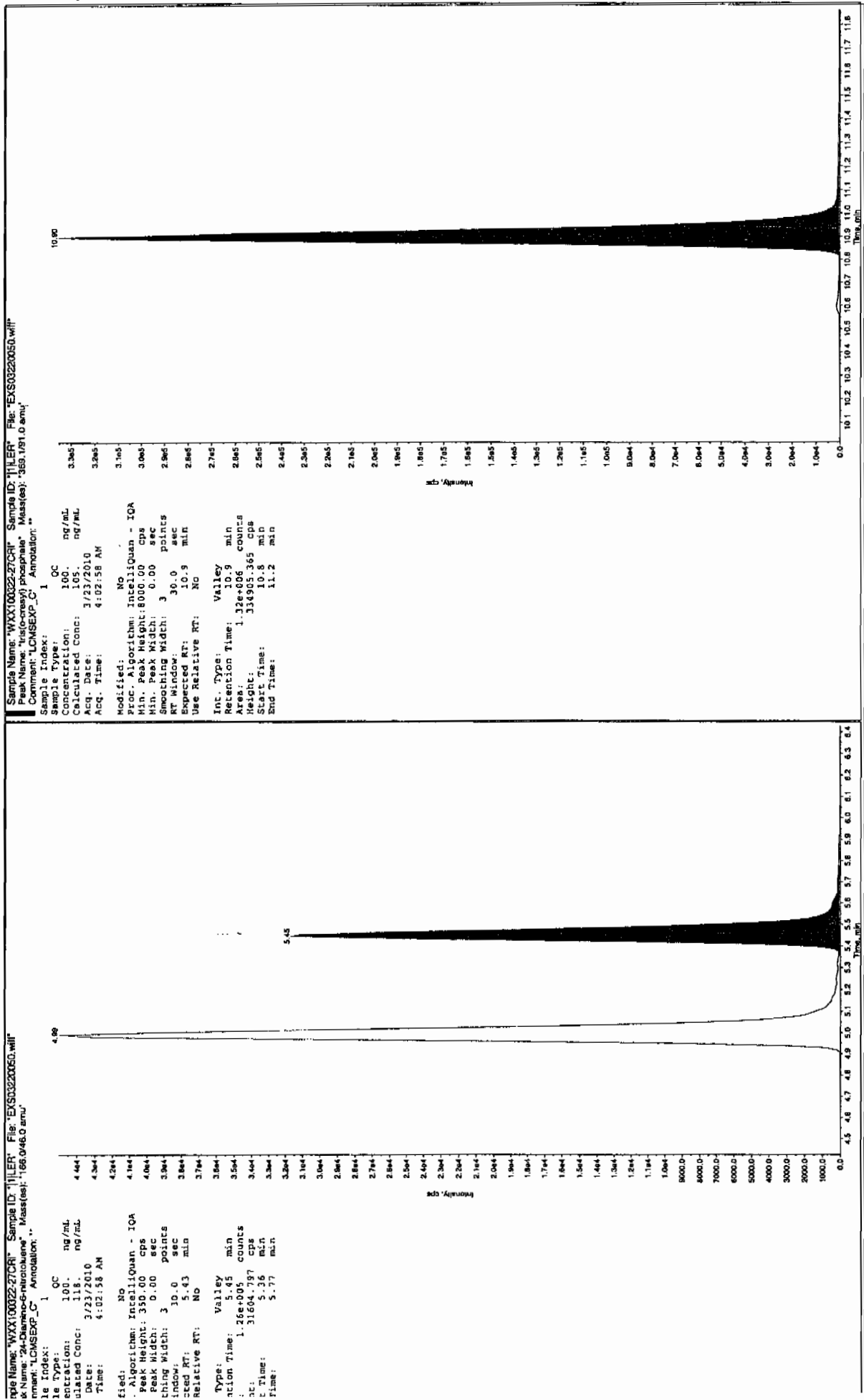
Sample Name: "WXX100322-270R1" Sample ID: "J1LER" File: "EXS03220060.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0460.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 103.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:02:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.21 min
 Area: 8.97e+005 counts
 Height: 228683.196 cps
 Start Time: 8.07 min
 End Time: 8.32 min



lan 3/27/10





L SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220058.wiff

Analysis Date: 23-MAR-10 06:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	484	97	
2,4-Diamino-6-nitrotoluene	500	621	124	
2,6-Diamino-4-nitrotoluene	500	611	122	
3,4-Dinitrotoluene	250	257	103	
3,5-Dinitroaniline	500	574	115	
TATB	500	538	108	

Recovery Limits:

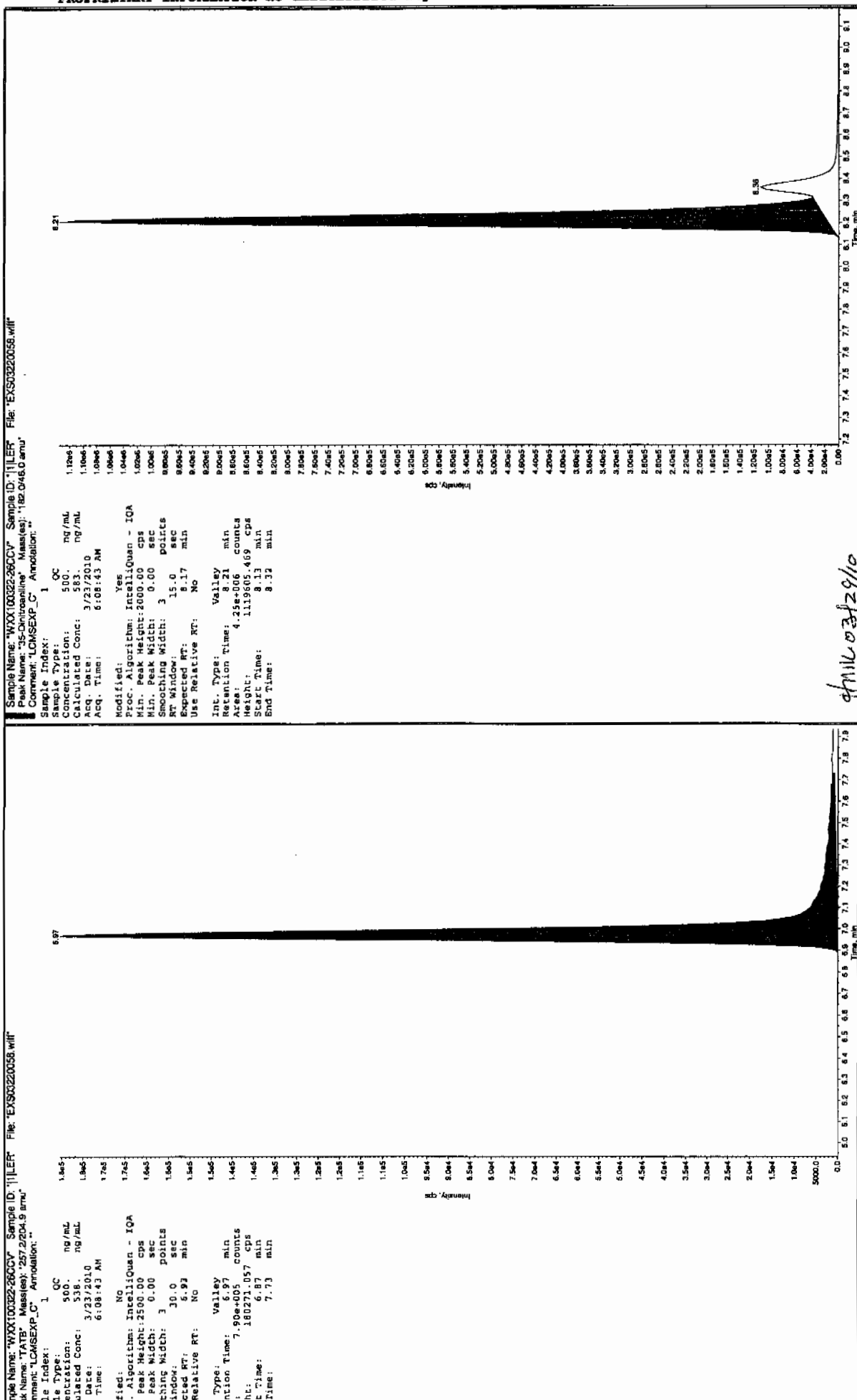
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/27/10

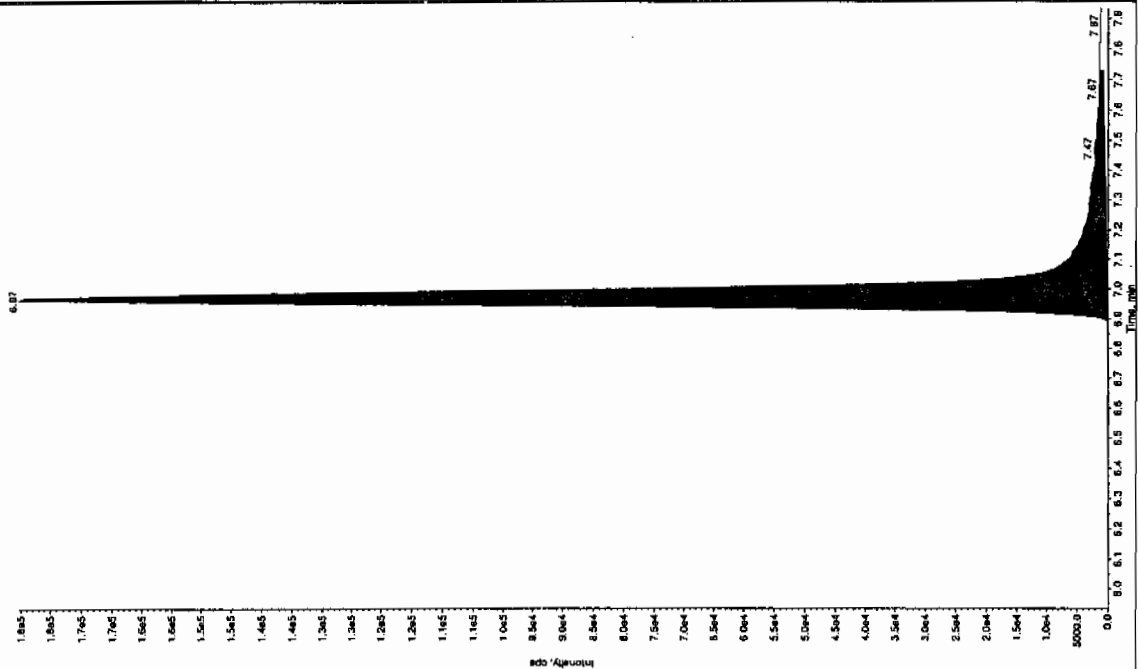


Jan 03/29/10

after Jan 3/29/10

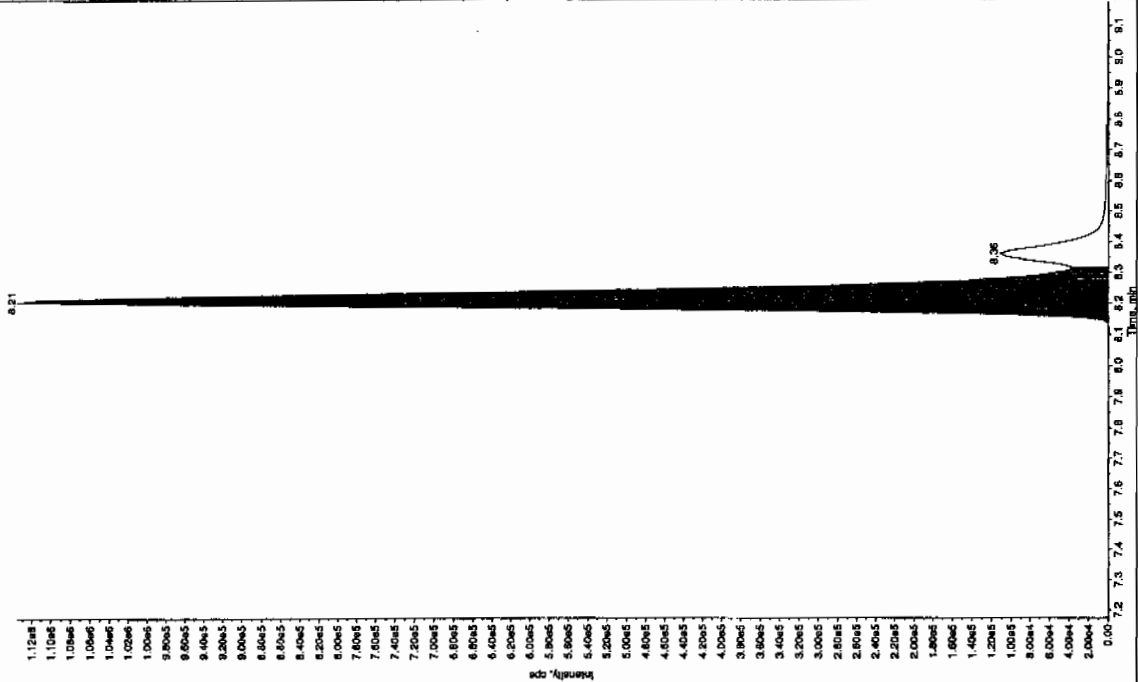
Sample Name: "WXX100322-260CV" Sample ID: "11JLER" File: "EXS030220056.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

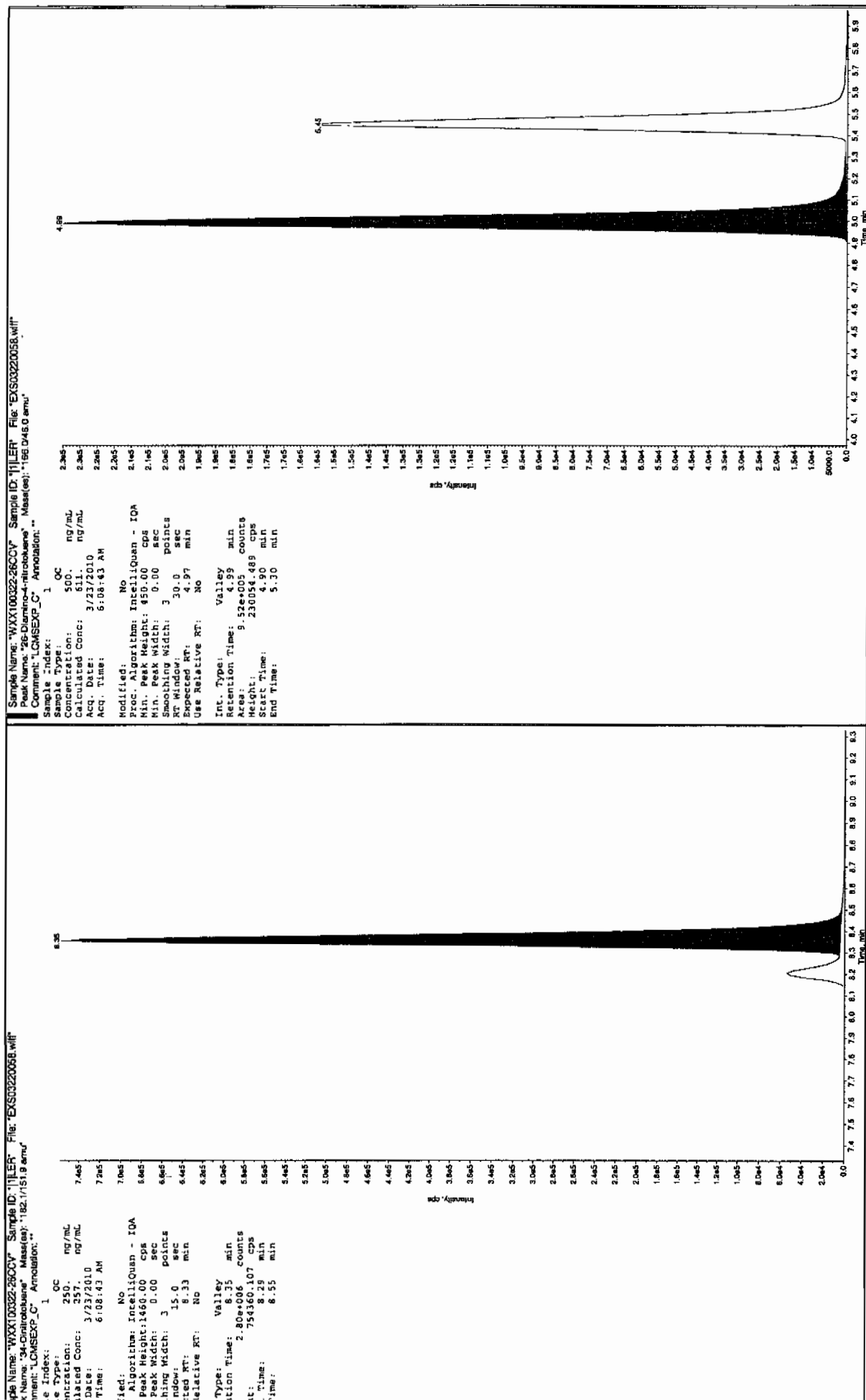
Sample Index: 1
 Sample Type: OC
 Concentration: 500.0 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 6:08:43 AM
 Acq. Time: 6:08:43 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.21 min
 Area: 4.97e+005 counts
 Height: 1148074.764 cps
 Start Time: 8.12 min
 End Time: 8.32 min
 Type: Valley
 Action Time: 8.37 min
 RT: 7.90e+005 counts
 RT: 180721.057 cps
 Time: 6.85 min
 Time: 7.73 min



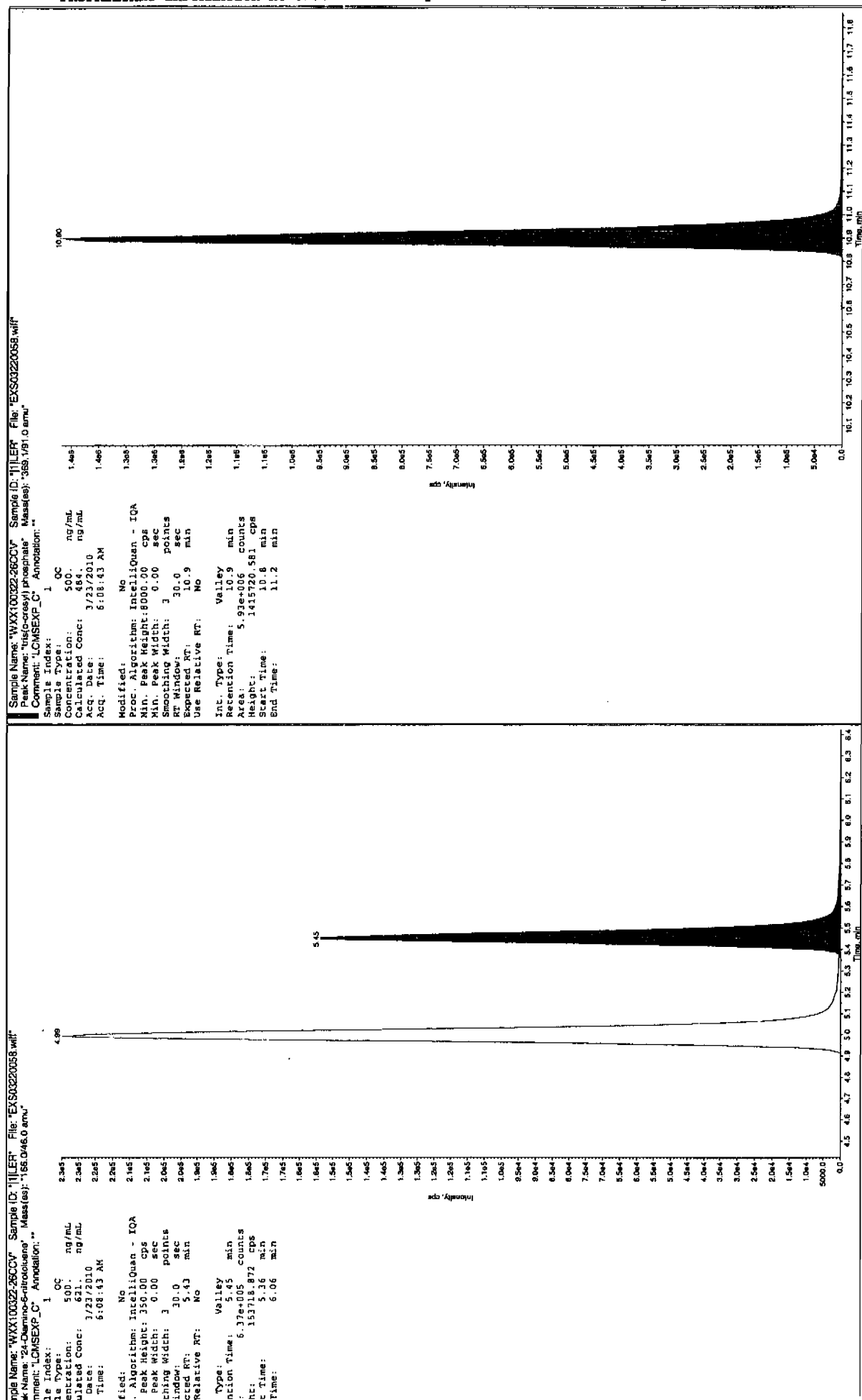
Sample Name: "WXX100322-260CV" Sample ID: "11JLER" File: "EXS030220056.wif"
 Peak Name: "3S-Dextroamphetamine" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: OC
 Concentration: 500.0 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 6:08:43 AM
 Acq. Time: 6:08:43 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.21 min
 Area: 4.97e+005 counts
 Height: 1148074.764 cps
 Start Time: 8.12 min
 End Time: 8.32 min





L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1972

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220060.wiff

Analysis Date: 23-MAR-10 06:40

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	98.9	99	
3,4-Dinitrotoluene	50	51.6	103	
3,5-Dinitroaniline	100	104	104	
TATB	100	98.4	98	
tris(o-cresyl) phosphate	100	105	105	

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

LC# 3127110

Sample Name: "WXX100322-270R1" Sample ID: "J1LER" File: "EX03220080.wif"

Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LCMSEXP_C" Annotation: ""

File Index: 1

Sample Type: 100 ng/mL

Concentration: 914 ng/mL

Calculated Conc: 3/23/2010

Acq. Date: 6:40:09 AM

Acq. Time: 6:40:09 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

Window: 30.0 sec

Expected RT: 6.93 min

Use Relative RT: No

Int. Type: Valley

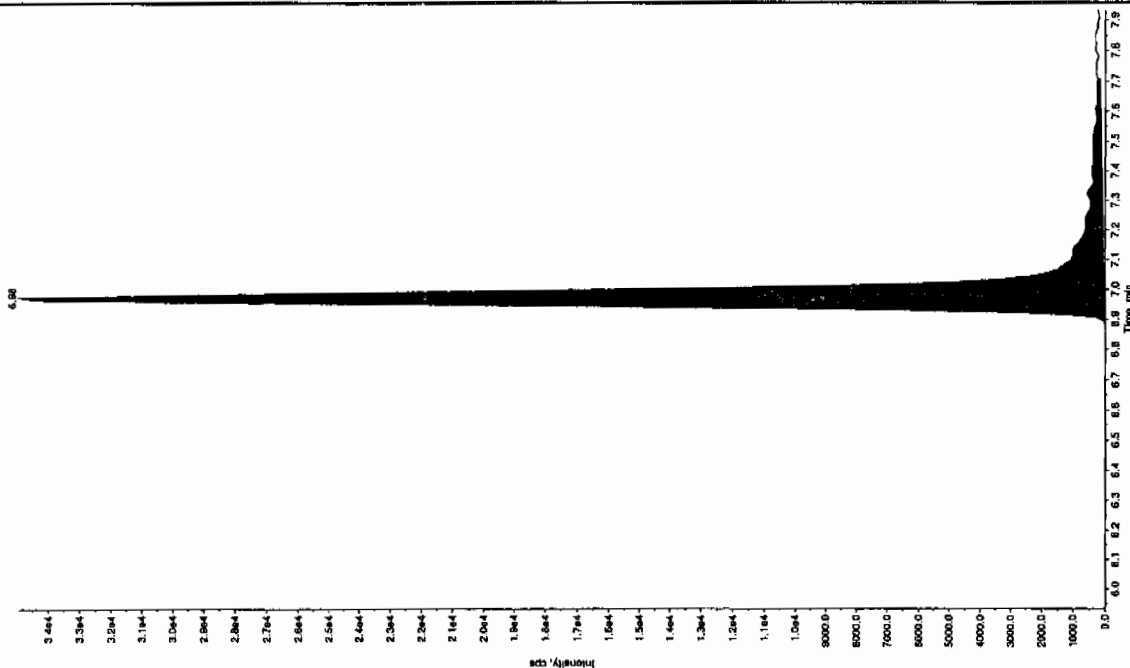
Retention Time: 6.98 min

Area: 1.49e+005 counts

Height: 34947.353 cps

Start Time: 6.97 min

End Time: 7.01 min



Sample Name: "WXX100322-270R1" Sample ID: "J1LER" File: "EX03220080.wif"

Peak Name: "3S-Chlorobutanol" Mass(es): "182.0/48.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: 100 ng/mL

Concentration: 104 ng/mL

Calculated Conc: 3/23/2010

Acq. Date: 6:40:09 AM

Acq. Time: 6:40:09 AM

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: 8.17 min

Use Relative RT: No

Int. Type: Valley

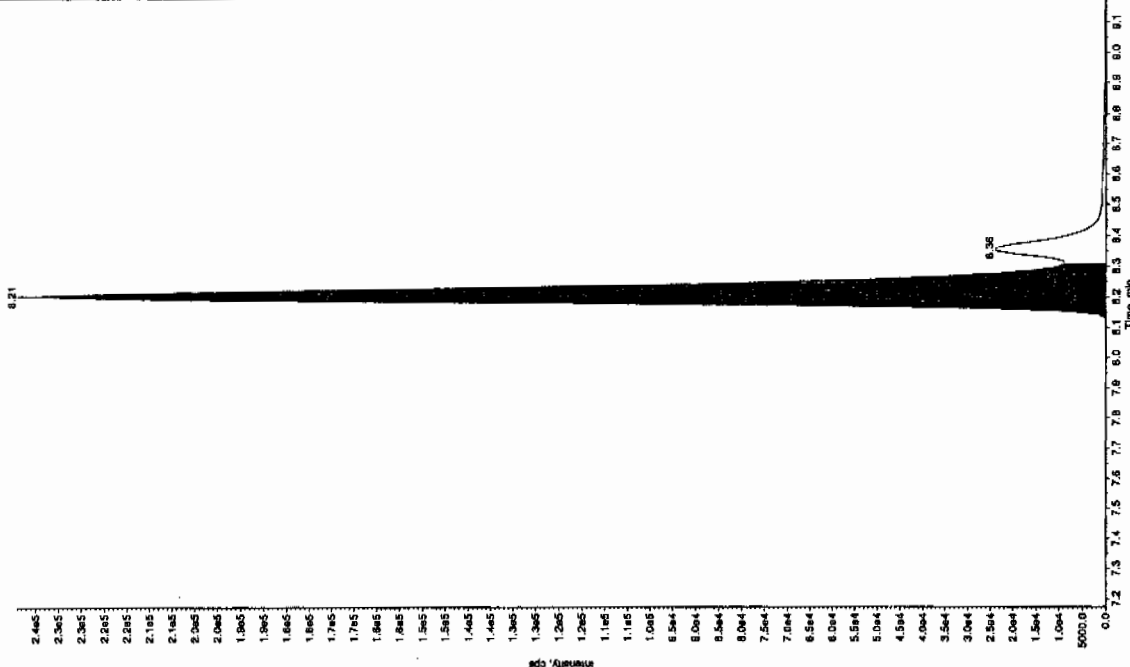
Retention Time: 8.21 min

Area: 9.05e+005 counts

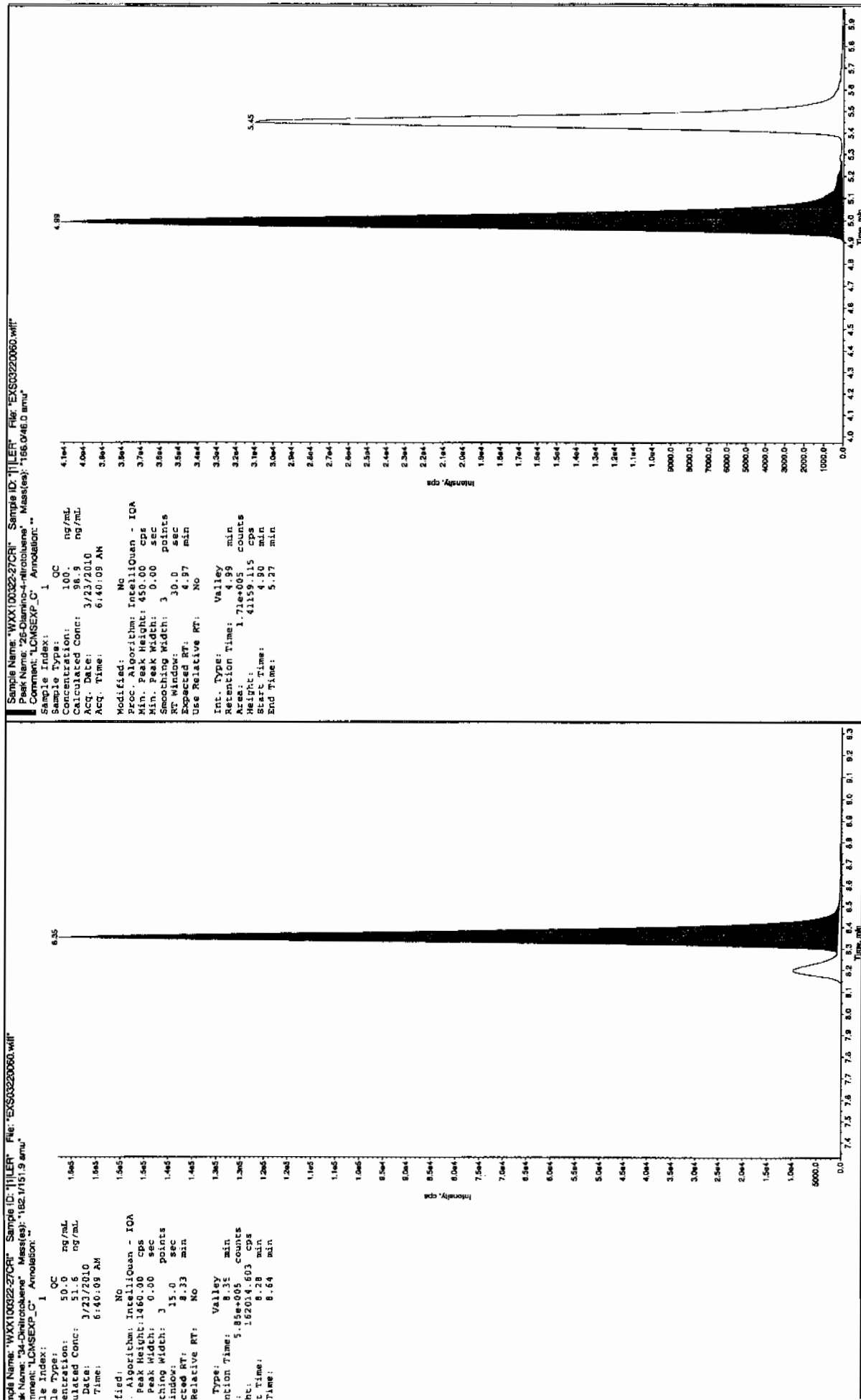
Height: 23889.826 cps

Start Time: 8.11 min

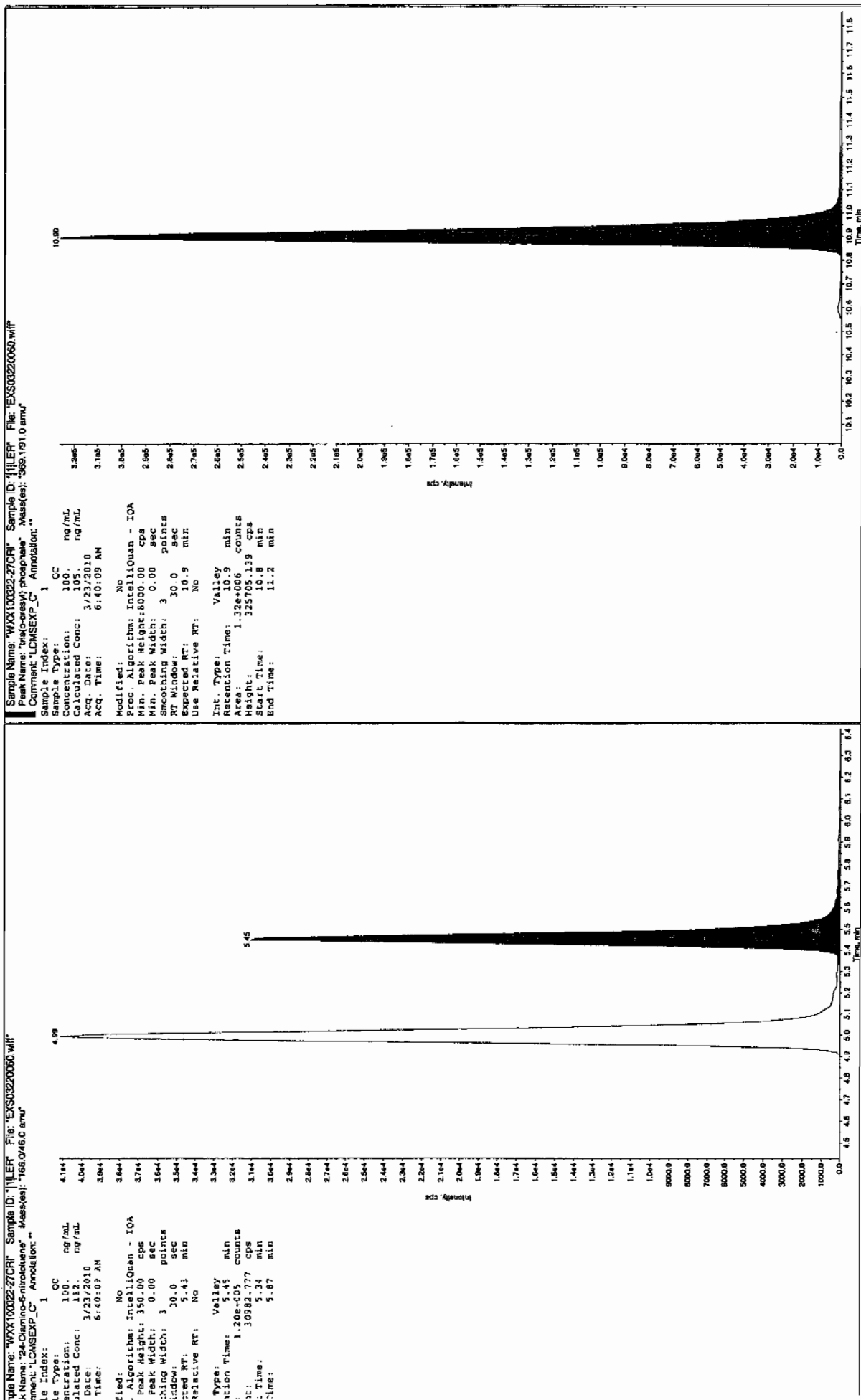
End Time: 8.31 min



4/11/03/29/10



IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

QUALITY CONTROL DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957195

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052398

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412042a

Date Analyzed: 13-APR-10 11:50

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

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412042a

Date: 13-Apr-2010

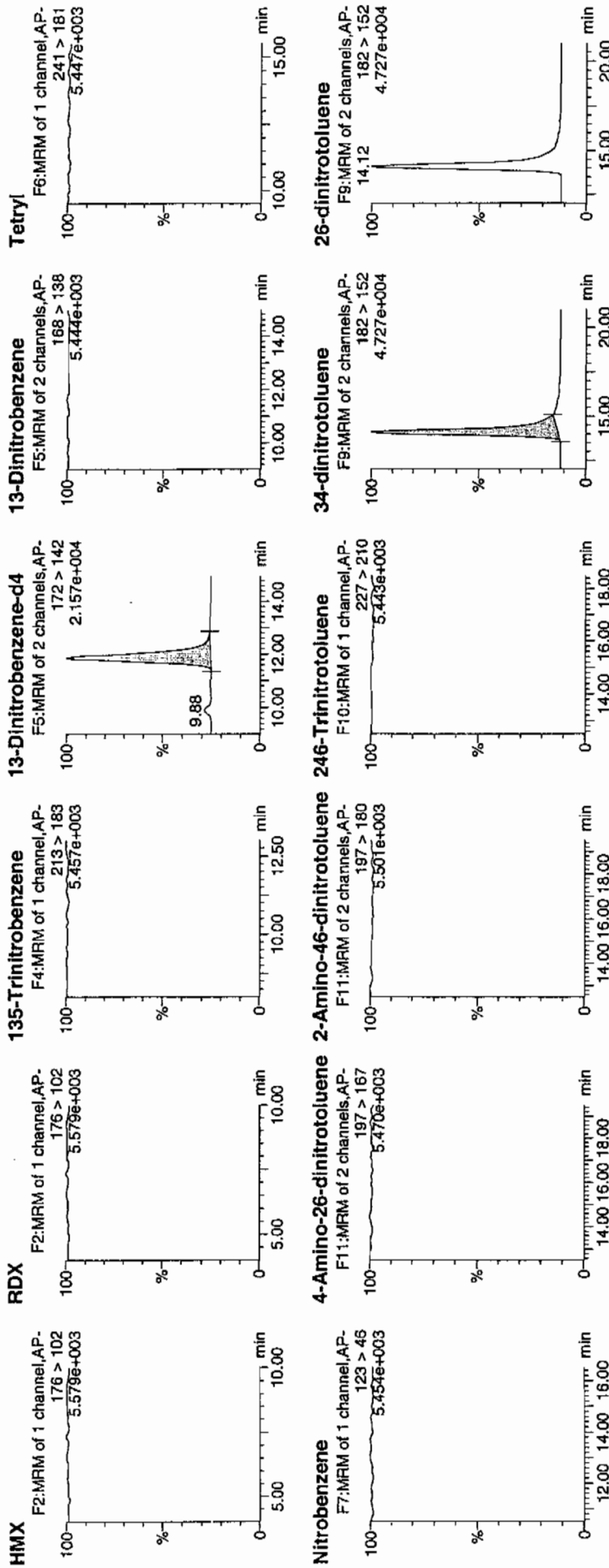
Time: 11:50:02

ID: 1202052398

Vial: 2:5.A

1477
4/14/10

1957196 | 8222 | 121



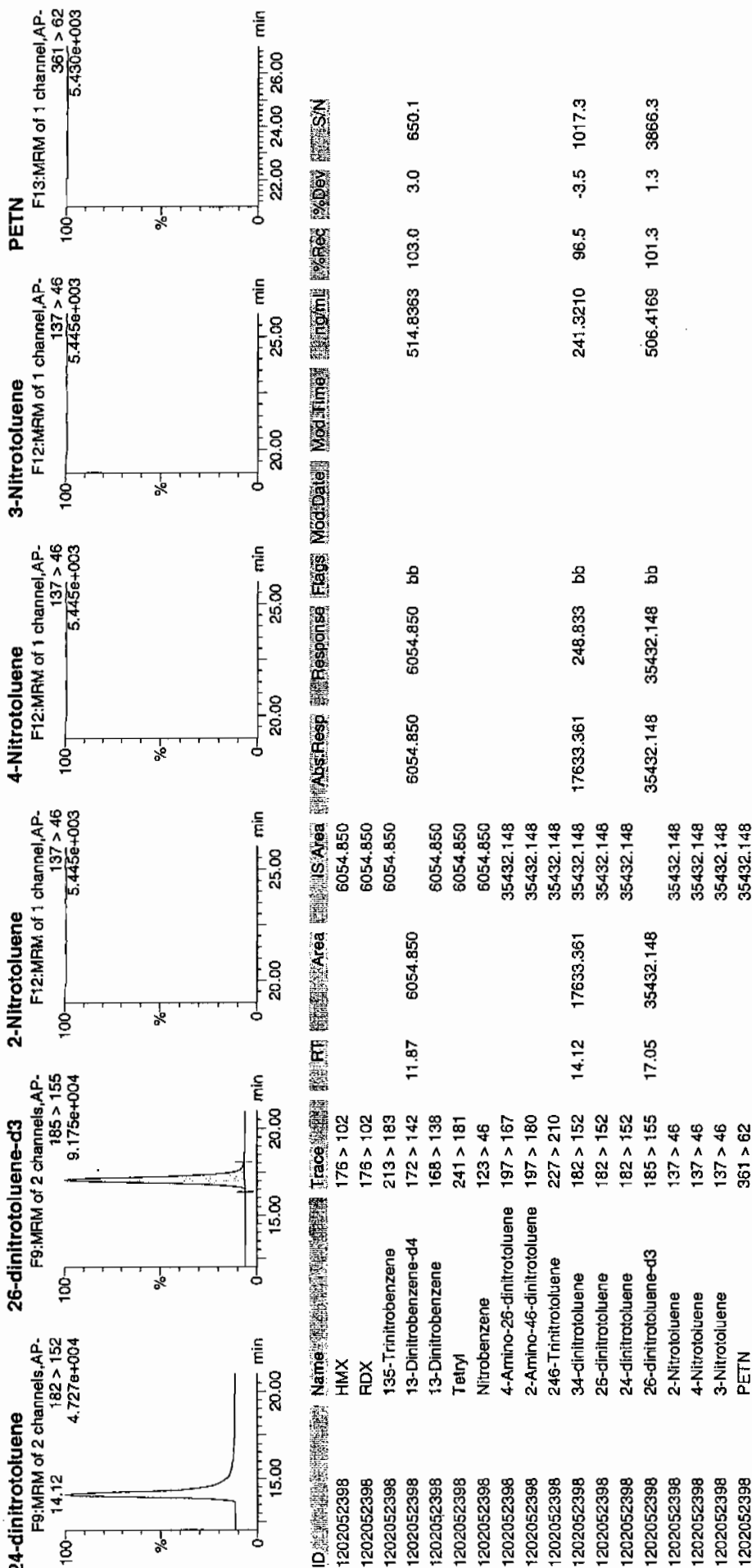
1477
4/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 8 of 75

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957195

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052398

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220040.wiff

Date Analyzed: 23-MAR-10 01:25

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

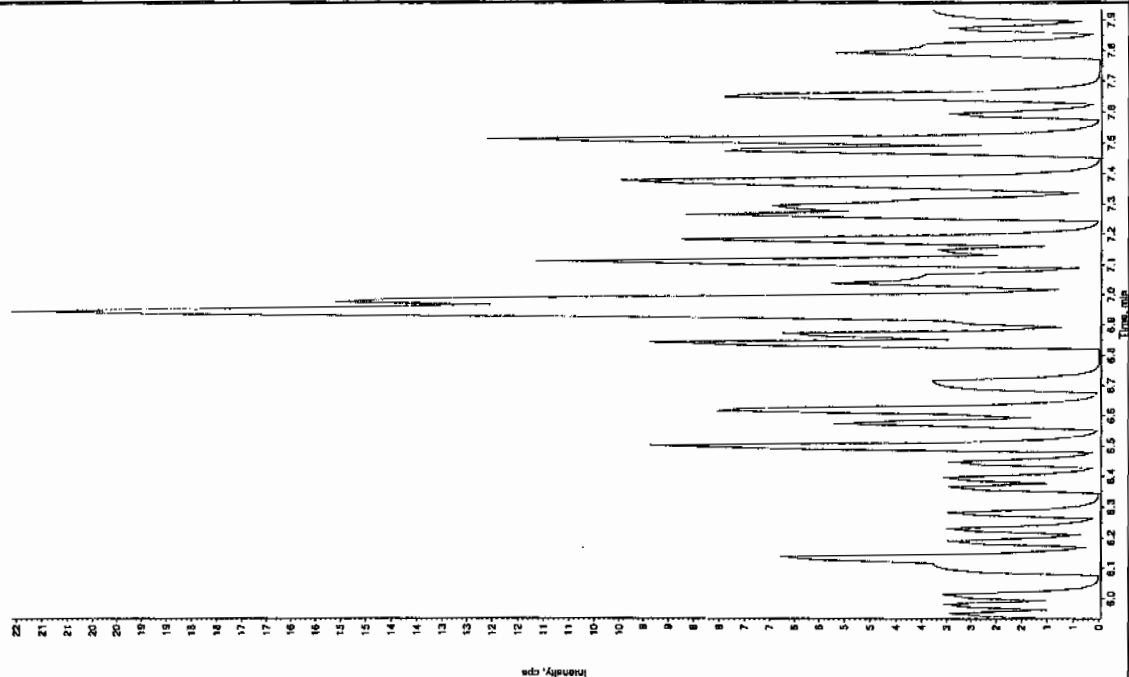
*Concentration =

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

See 3/27/10

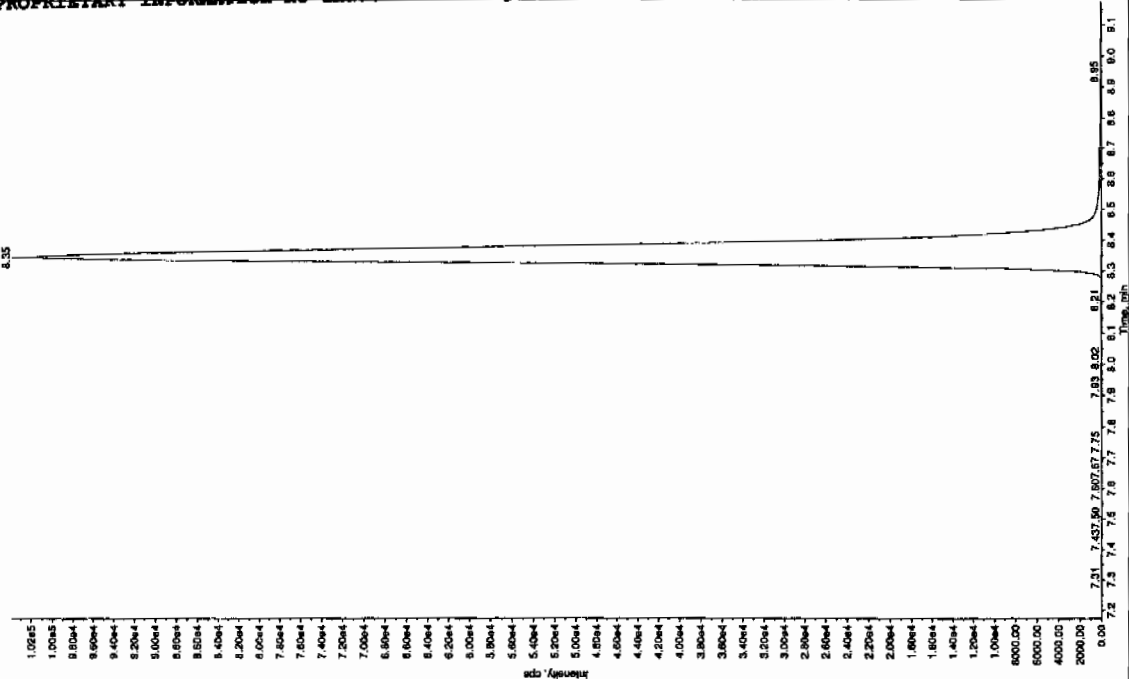
Sample Name: "120202398" Sample ID: "9571952LER" File: "EXS0320040.wif"
 Peak Name: "YATE" Mass(es): "257.2204.9 amu"
 Comment: "LCX632125" Annotation:

Sample Index: 1
 Sample Type: Unknown
 Identification: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Acq. Time: 1:25:43 AM
 Modified: No



Sample Name: "120202398" Sample ID: "9571952LER" File: "EXS0320040.wif"
 Peak Name: "35-Contaminant" Mass(es): "182.0460 amu"
 Comment: "LCX632125" Annotation:

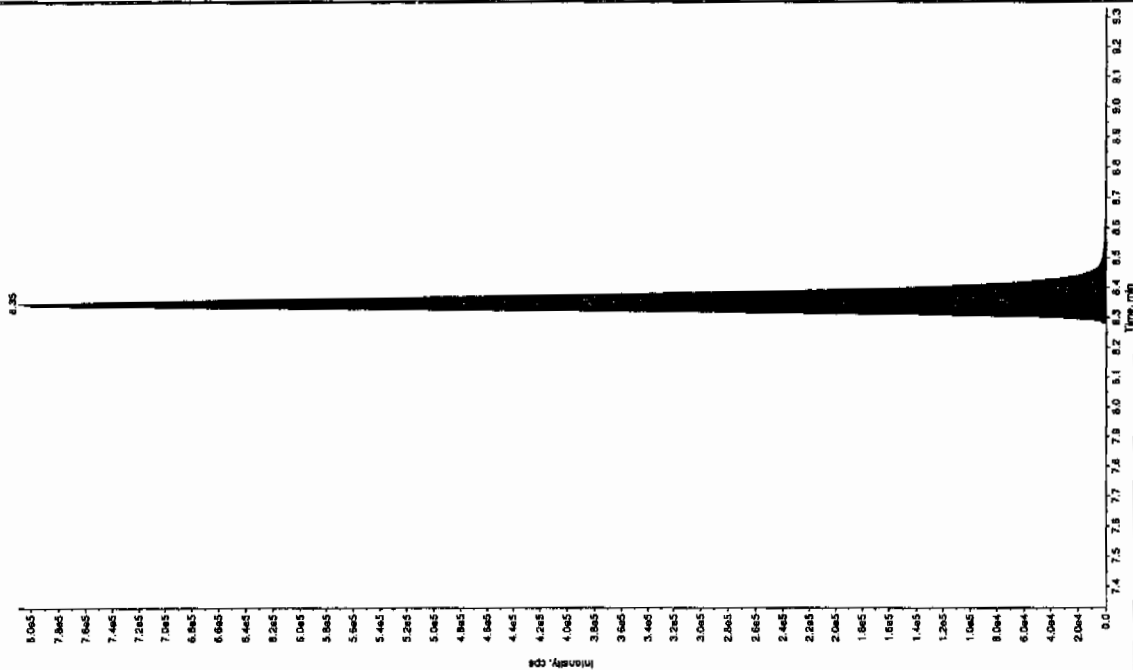
Sample Index: 1
 Sample Type: Unknown
 Identification: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Acq. Time: 1:25:43 AM
 Modified: No



HW 03/29/10

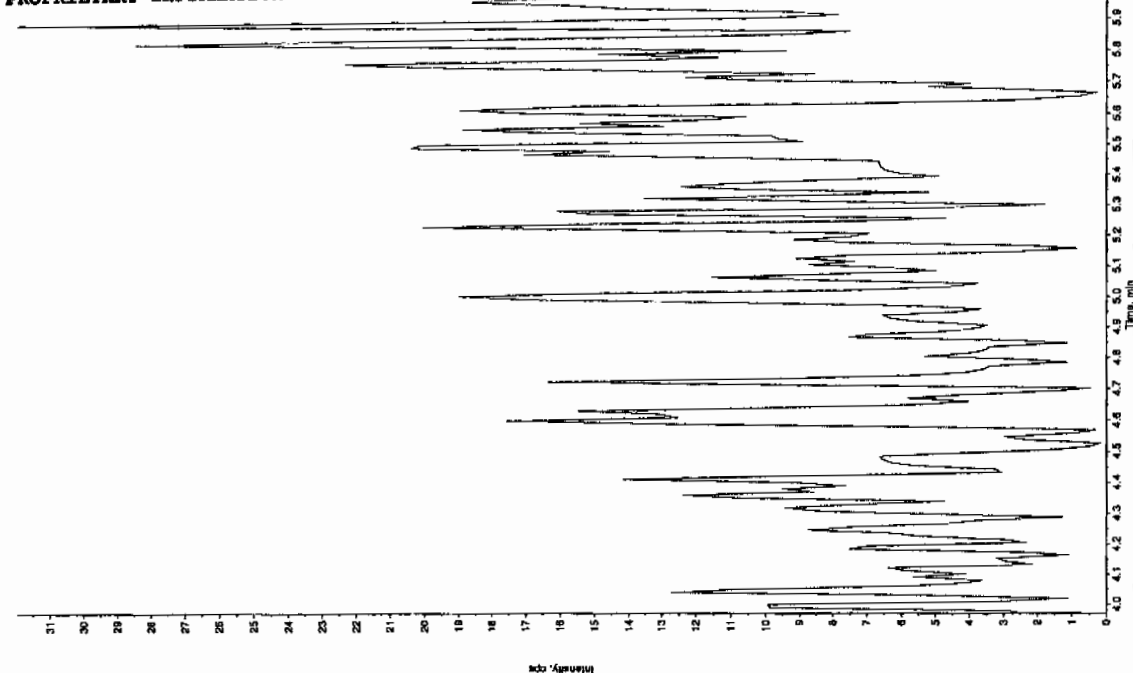
Sample Name: "1202052398" Sample ID: "5719611ER" File: "EX50220040.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 280. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:25:43 AM
Modified: No
QC Algorithm: IntelliQuan - ION
1. Peak Height: 1450.00 cps
2. Peak Width: 0.09 sec
3. Peak Area: 15.0 sec
4. Peak RT: 8.33 min
5. Relative RT: No
6. Type: Valley
7. Retention Time: 8.35 min
8. Abundance: 3.04e+006 counts
9. Height: 809421.997 cps
10. WRT Time: 8.25 min
11. Time: 8.67 min



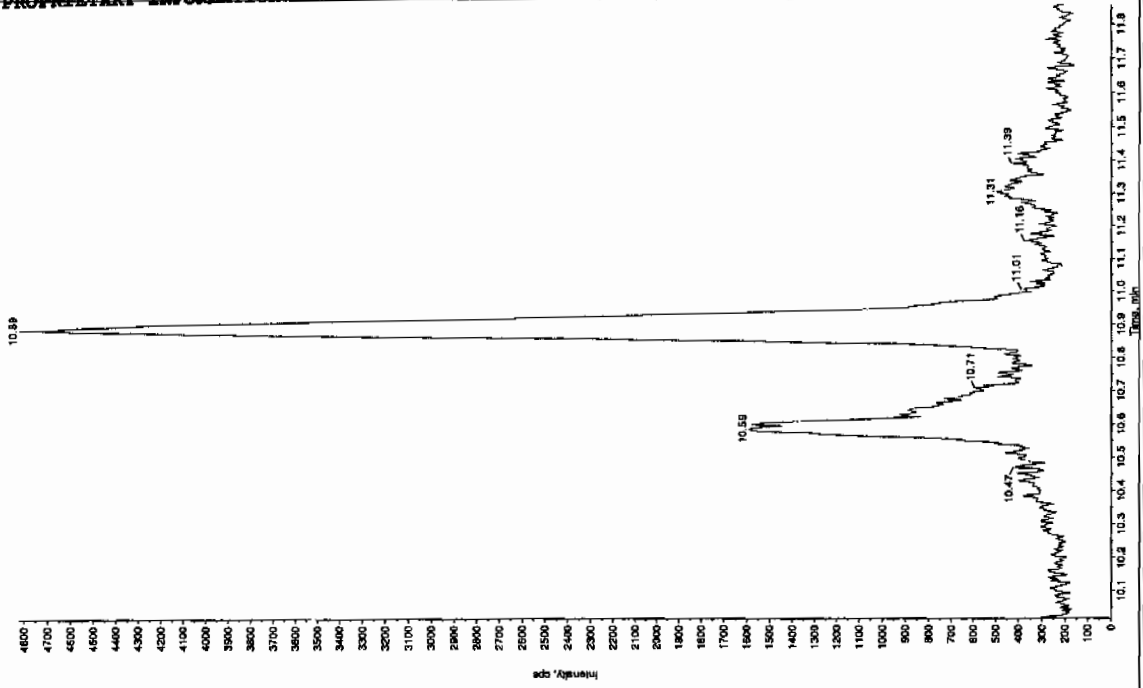
Sample Name: "1202052398" Sample ID: "5719611ER" File: "EX50220040.wif"
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Acq. Date: 3/23/2010
Acq. Time: 1:25:43 AM
Modified: No



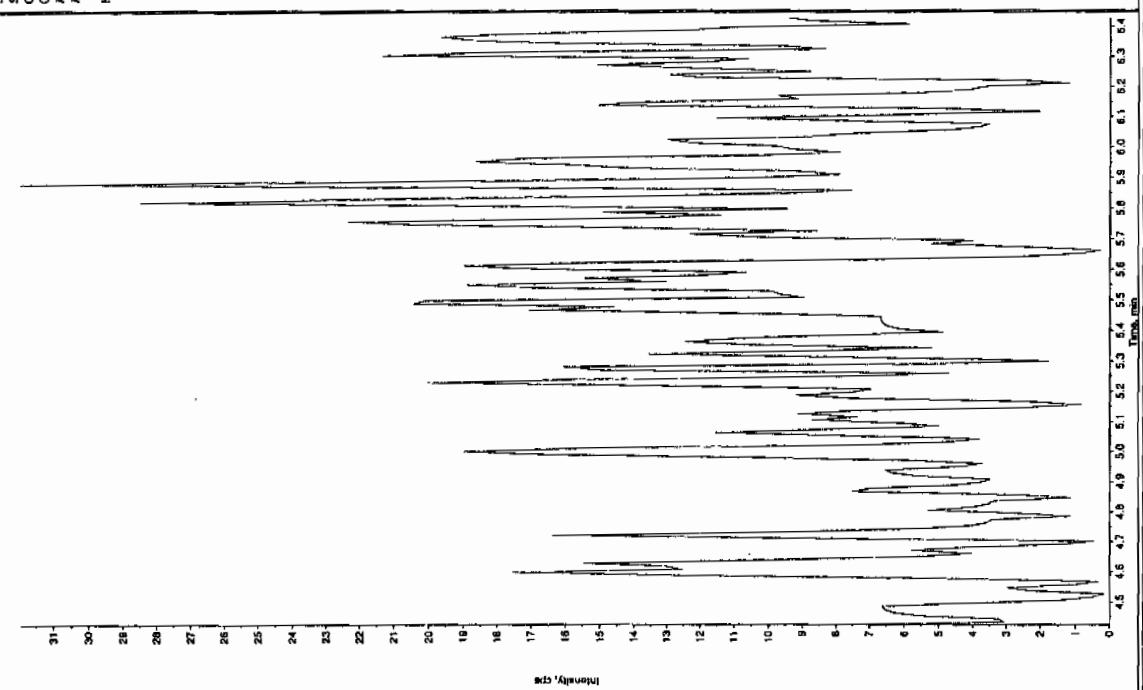
Sample Name: "120252398" Sample ID: "56719621.ER" File: "EXS03220040.wif"
 Peak Name: "Tri(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:25:43 AM
 Modified: No



Sample Name: "120252398" Sample ID: "56719621.ER" File: "EXS03220040.wif"
 Peak Name: "2,4-Dinitrophenol" Mass(es): "186.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:25:43 AM
 Modified: No



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957195

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052399

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412043a

Date Analyzed: 13-APR-10 12:19

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4910	
121-14-2	2,4-Dinitrotoluene	6020	
121-82-4	RDX	5210	
19406-51-0	4-Amino-2,6-dinitrotoluene	4870	
2691-41-0	HMX	4410	
35572-78-2	2-Amino-4,6-dinitrotoluene	4970	
479-45-8	Tetryl	1810	
606-20-2	2,6-Dinitrotoluene	4870	
78-11-5	PETN	4990	
88-72-2	o-Nitrotoluene	4280	
98-95-3	Nitrobenzene	5710	
99-08-1	m-Nitrotoluene	4180	
99-35-4	1,3,5-Trinitrobenzene	3850	
99-65-0	m-Dinitrobenzene	4860	
99-99-0	p-Nitrotoluene	4630	

*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: Wed Apr 14 09:18:04 2010, Page 9 of 75

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412043a

Date: 13-Apr-2010

Time: 12:19:36

ID: 1202052399

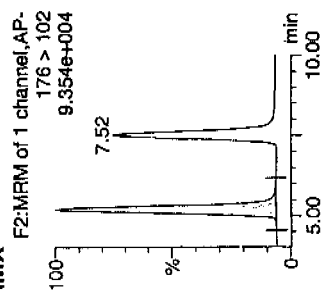
Vial: 2:5,B

4677

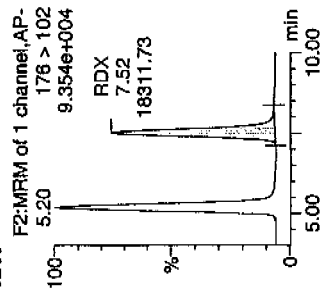
4/14/10

WAV/95796/SOLZ/08/21

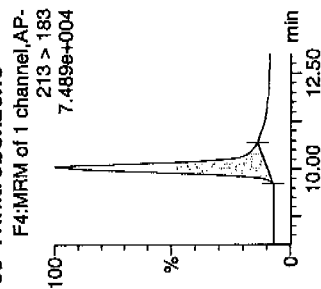
HMZ



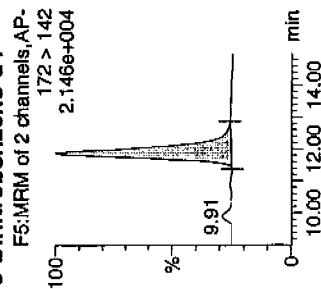
RDX



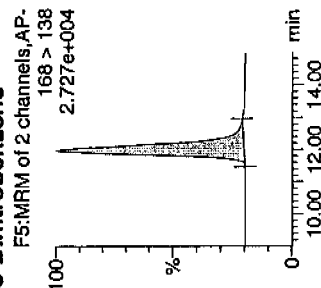
135-Trinitrobenzene



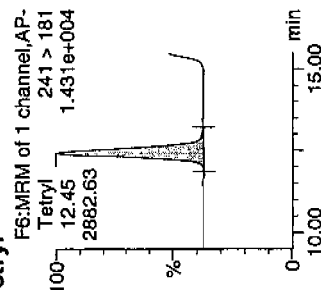
13-Dinitrobenzene-d4



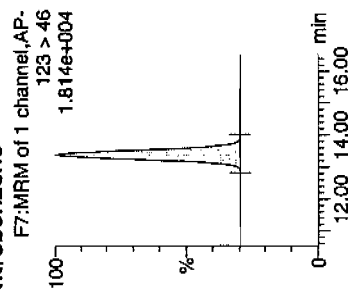
13-Dinitrobenzene



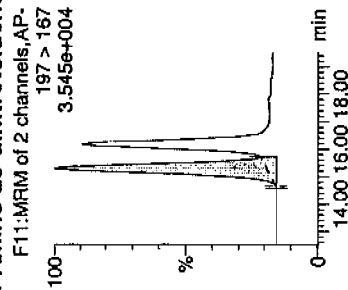
Tetryl



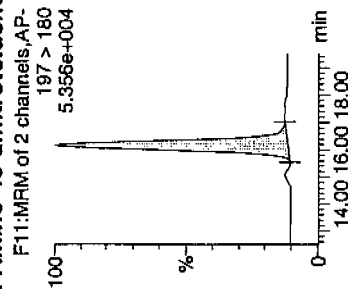
Nitrobenzene



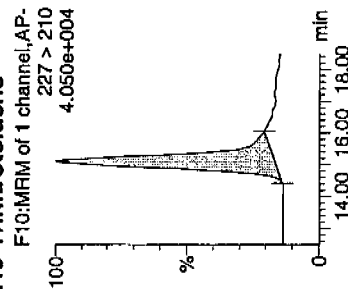
4-Amino-26-dinitrotoluene



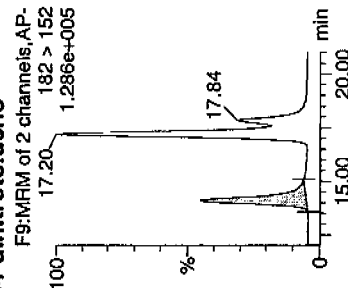
2-Amino-46-dinitrotoluene



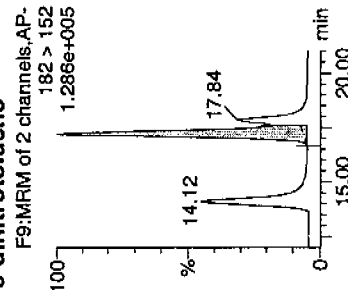
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



Shane 4/14/10

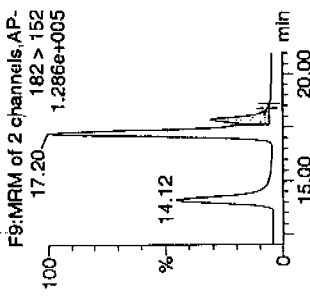
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

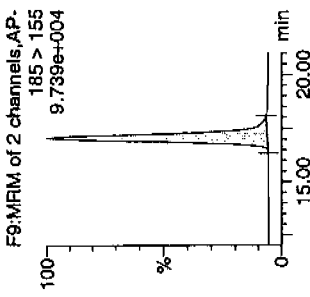
Printed: Wed Apr 14 09:18:04 2010, Page 10 of 75

Dataset: C:\MASSLYNX\New_Exp_PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

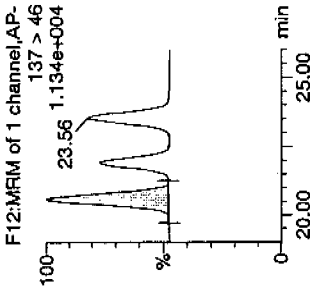
24-dinitrotoluene



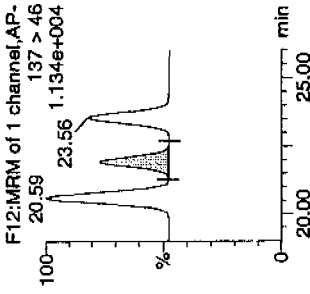
26-dinitrotoluene-d3



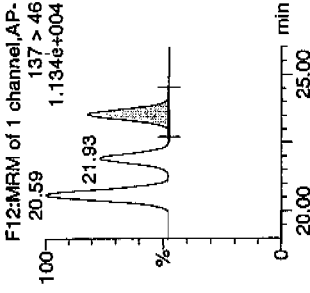
2-Nitrotoluene



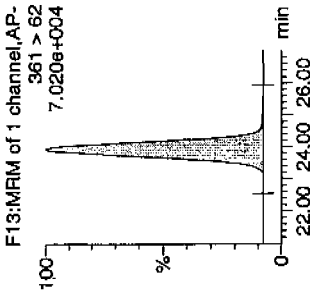
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S-Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	%Rec	%Dev	S/N
1202052399	HMX	176 > 102	5.20	22971.973	6140.618	22971.973	1870.494	bb			441.2930	88.3	-11.7	1395.2
1202052399	RDX	176 > 102	7.52	18311.732	6140.618	18311.732	1491.033	bb			520.9394	104.2	4.2	1027.0
1202052399	135-Trinitrobenzene	213 > 183	10.05	20458.135	6140.618	20458.135	1665.804	bb			385.3371	77.1	-22.9	1376.8
1202052399	13-Dinitrobenzene-d4	172 > 142	11.87	6140.618		6140.618	6140.618	bb			522.1291	104.4	4.4	230.2
1202052399	13-Dinitrobenzene	168 > 138	11.97	7972.927	6140.618	7972.927	649.196	bb			485.5363	97.1	-2.9	707.6
1202052399	Tetryl	241 > 181	12.45	2882.633	6140.618	2882.633	234.718	bb			181.0718	36.2	-63.8	241.1
1202052399	Nitrobenzene	123 > 46	13.37	4398.584	6140.618	4398.584	358.155	bb			570.9497	114.2	14.2	474.7
1202052399	4-Amino-26-dinitrotoluene	197 > 167	15.29	12598.886	38268.004	12598.886	164.614	MM	14-Apr-10	09:10:52	487.3656	97.5	-2.5	264.8
1202052399	2-Amino-46-dinitrotoluene	197 > 180	16.16	19501.398	38268.004	19501.398	254.800	bb			487.4651	99.5	-0.5	482.7
1202052399	246-Trinitrotoluene	227 > 210	15.10	16335.409	38268.004	16335.409	213.434	bb			490.6164	98.1	-1.9	633.3
1202052399	34-dinitrotoluene	182 > 152	14.12	21739.641	38268.004	21739.641	284.045	bb			275.4698	110.2	10.2	310.3
1202052399	26-dinitrotoluene	182 > 152	17.20	44077.105	38268.004	44077.105	575.900	MM	14-Apr-10	09:11:08	486.5920	97.3	-2.7	731.4
1202052399	24-dinitrotoluene	182 > 152	17.84	12029.042	38268.004	12029.042	157.168	MM	14-Apr-10	09:16:31	602.1688	120.4	20.4	194.2
1202052399	26-dinitrotoluene-d3	185 > 155	17.05	38268.004		38268.004	38268.004	bb			546.9486	109.4	9.4	1960.7
1202052399	2-Nitrotoluene	137 > 46	20.59	2836.036	38268.004	2836.036	37.055	bb			427.9442	85.6	-14.4	515.0
1202052399	4-Nitrotoluene	137 > 46	21.93	1468.514	38268.004	1468.514	19.187	bb			482.5727	92.5	-7.5	287.2
1202052399	3-Nitrotoluene	137 > 46	23.56	1864.225	38268.004	1864.225	24.357	bb			417.7812	83.6	-16.4	338.3
1202052399	PETN	361 > 62	23.93	34963.340	38268.004	34963.340	456.822	bb			498.6522	99.7	-0.3	14176.1

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957195

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052399

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220041.wiff

Date Analyzed: 23-MAR-10 01:41

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5370	
59229-75-3	2,6-Diamino-4-nitrotoluene	6140	
618-87-1	3,5-Dinitroaniline	5540	
6629-29-4	2,4-Diamino-6-nitrotoluene	5960	
78-30-8	tris(o-cresyl) phosphate	5170	

*Concentration =

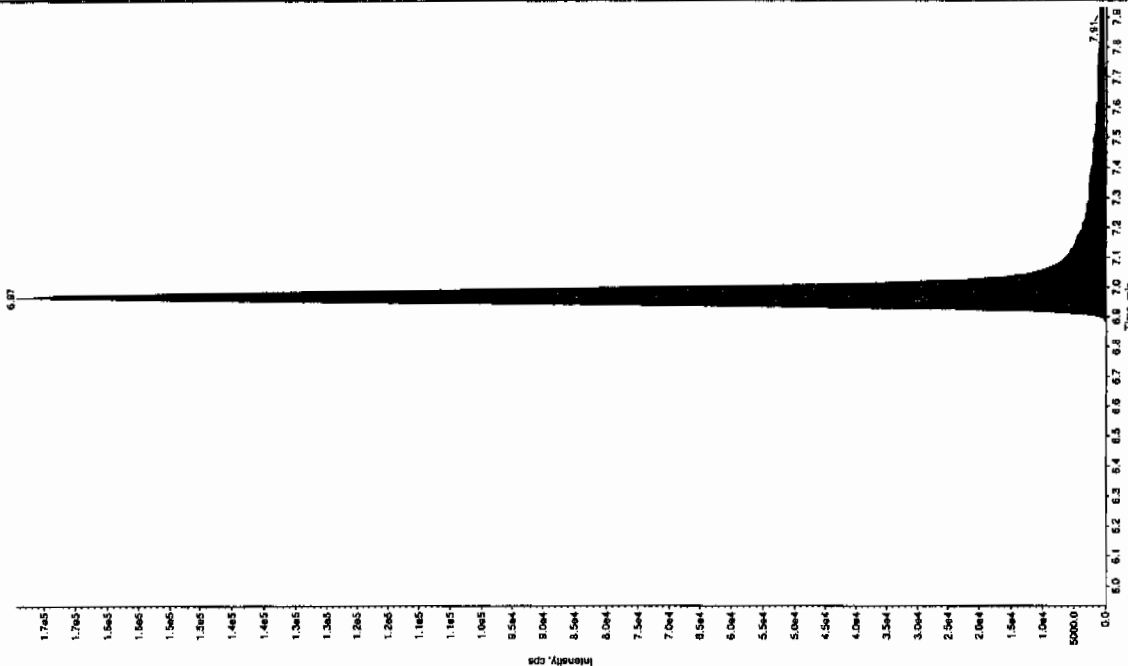
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Sample Name: "1202052389" Sample ID: "B57195191ER" File: "EXS0220041.wif"
 Peak Name: "TATB" Mass(es): "252.2024.9 amu"
 Comment: "LCX63212S" Acquisition: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 554. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:41:31 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: 8.17 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.21 min
 Area: 4.32e+06 Counts
 Height: 1054486.628 cps
 Start Time: 8.11 min
 End Time: 8.31 min



Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 517. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:41:31 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: 6.93 min
 Use Relative RT: No

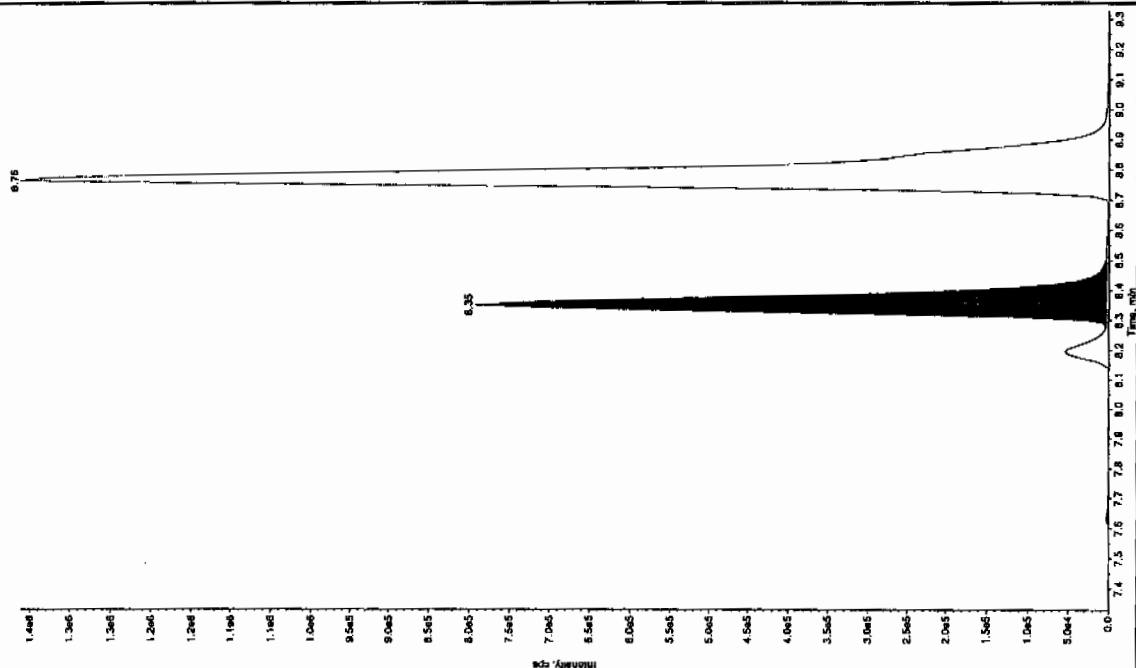
Int. Type: Valley
 Retention Time: 6.97 min
 Area: 7.88e+005 Counts
 Height: 174485.107 cps
 Start Time: 6.86 min
 End Time: 7.07 min



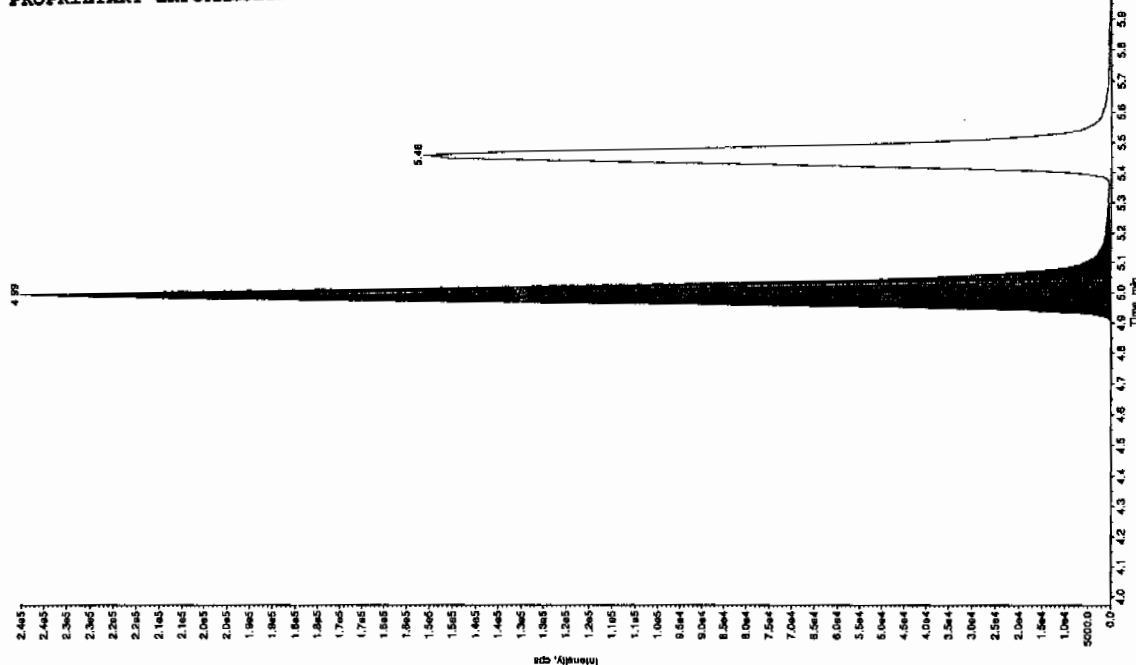
IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202052399" Sample ID: "95719921.ER" File: "EXS03220041.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index:
 Sample Type: Unknown
 Concentration: 279. ng/mL
 Q. Date: 3/23/2010
 Q. Time: 1:41:31 AM
 dited: No
 Proc. Algorithm: IntelliQuan - IOA
 n. Peak Height: 1460.00 cps
 n. Peak Width: 0.00 sec
 oothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 3.02e+005 counts
 Height: 790416.138 cps
 Start Time: 8.23 min
 End Time: 8.53 min



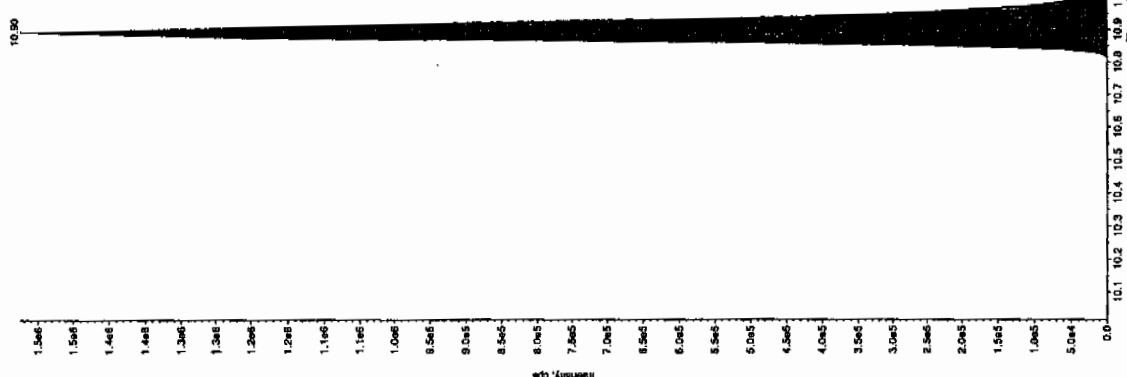
Sample Index:
 Sample Type: Unknown
 Concentration: 614. ng/mL
 Q. Date: 3/23/2010
 Q. Time: 1:41:31 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Area: 9.57e+005 counts
 Height: 240003.54 cps
 Start Time: 4.83 min
 End Time: 5.30 min



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

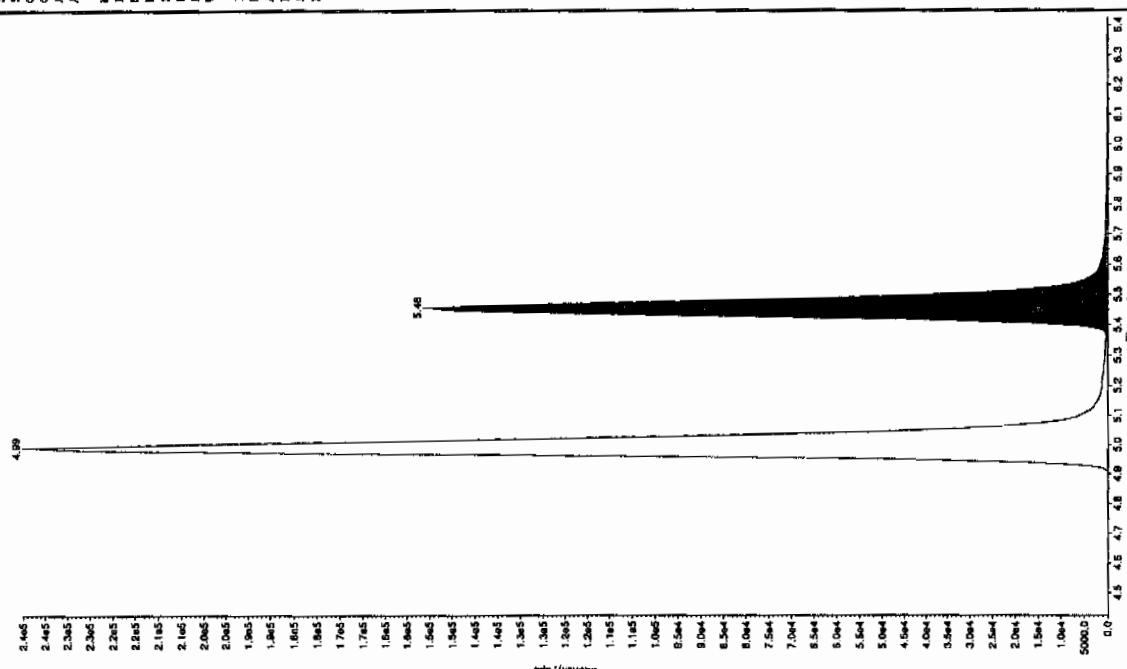
Sample Name: "120262399" Sample ID: "95719521LER" File: "EXS03220041.wif"
Peak Name: "trifluoromethyl phosphate" Mass(es): "369.1791.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 517 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:41:31 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: 10.9 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 6.11e+005 min
Area: 152527.905 counts
Height: 1298
Start Time: 0.0 min
End Time: 11.2 min



Sample Name: "120262399" Sample ID: "95719521LER" File: "EXS03220041.wif"
Peak Name: "24-Diamino-5-nitrothiophene" Mass(es): "186.046.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 599 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:41:31 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 350.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 5.43 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 5.46 min
Area: 6.13e+005 counts
Height: 151067.963 cps
Start Time: 0.0 min
End Time: 5.61 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259(247767001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052400

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412045a

Date Analyzed: 13-APR-10 13:18

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4810	H
121-14-2	2,4-Dinitrotoluene	5370	H
121-82-4	RDX	5540	H
19406-51-0	4-Amino-2,6-dinitrotoluene	4730	H
2691-41-0	HMX	4630	H
35572-78-2	2-Amino-4,6-dinitrotoluene	4890	H
479-45-8	Tetryl	1240	H
606-20-2	2,6-Dinitrotoluene	4830	H
78-11-5	PETN	5360	H
88-72-2	o-Nitrotoluene	4430	H
98-95-3	Nitrobenzene	4820	H
99-08-1	m-Nitrotoluene	4450	H
99-35-4	1,3,5-Trinitrobenzene	4160	H
99-65-0	m-Dinitrobenzene	5010	H
99-99-0	p-Nitrotoluene	4890	H

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412045a

Date: 13-Apr-2010

Time: 13:18:36

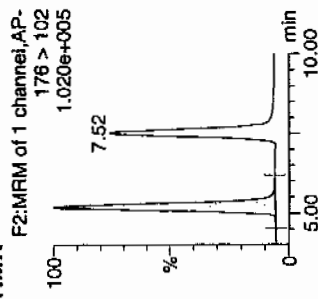
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Vial: 2:5.D ^{4/14/10}

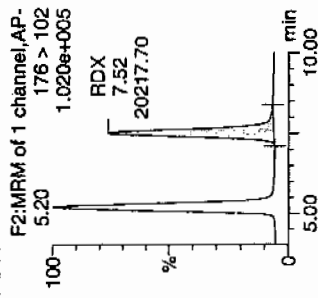
1202052400 | LAW | 957196 | 24776700123 | 21

1.677
4/14/10

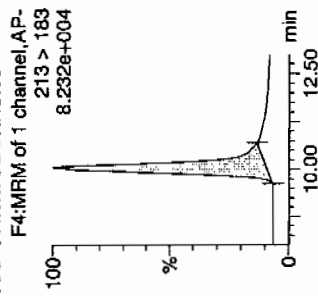
HMX



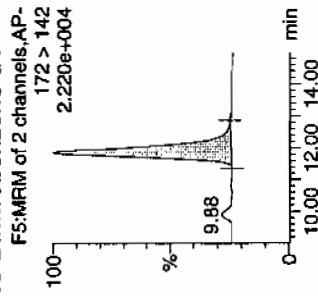
RDX



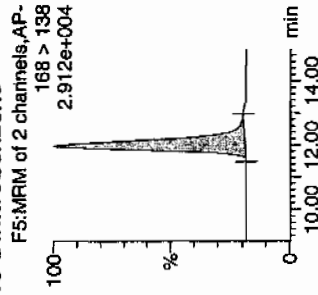
135-Trinitrobenzene



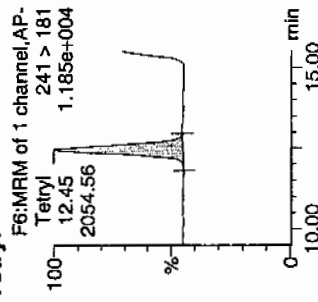
13-Dinitrobenzene-d4



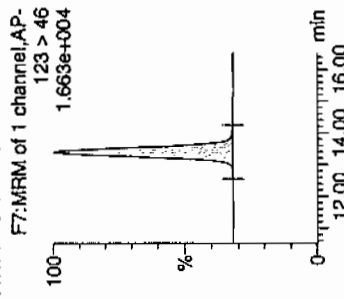
13-Dinitrobenzene



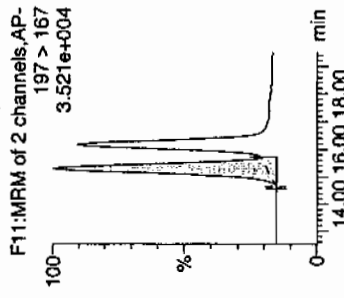
Tetryl



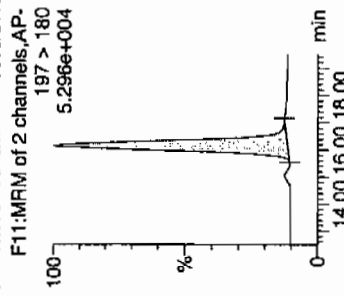
Nitrobenzene



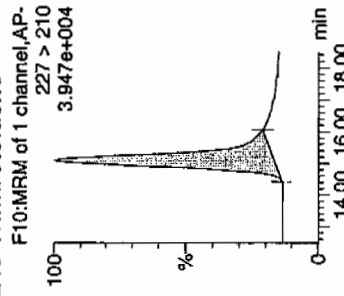
4-Amino-26-dinitrotoluene



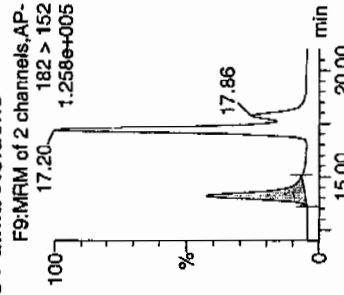
2-Amino-46-dinitrotoluene



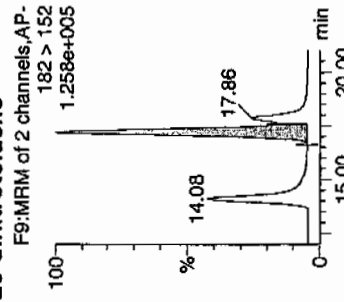
246-Trinitrotoluene



34-dinitrotoluene



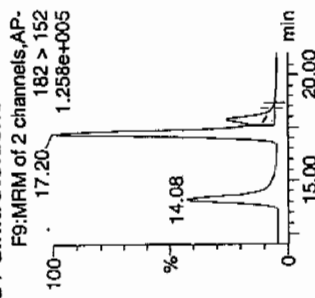
26-dinitrotoluene



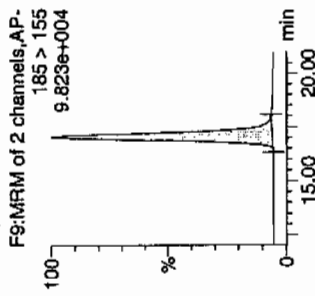
4/14/10

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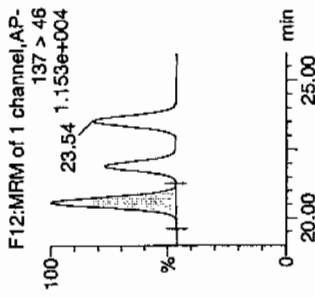
24-dinitrotoluene



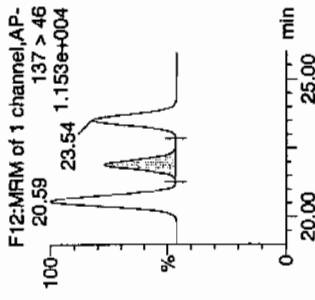
26-dinitrotoluene-d3



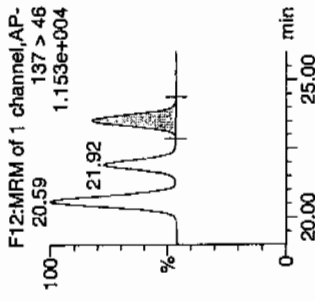
2-Nitrotoluene



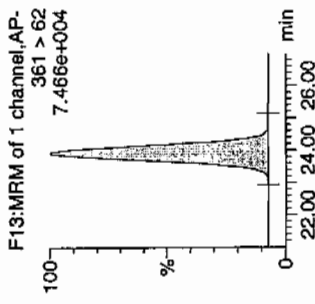
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS/Area	Abs/Resp	Response	Flags	Mod/Date	Mod/Time	Conc	%Rec	%Dev	SN
1202052401	HMX	176 > 102	5.20	25059.119	6380.555	25059.119	1963.710	bb			463.2849	92.7	-7.3	2728.6
1202052401	RDX	176 > 102	7.52	20217.701	6380.555	20217.701	1584.322	bb			553.5326	110.7	10.7	2027.5
1202052401	135-Trinitrobenzene	213 > 183	10.05	22933.391	6380.555	22933.391	1797.131	bb			415.7159	83.1	-16.9	1798.4
1202052401	13-Dinitrobenzene-d4	172 > 142	11.87	6380.555	6380.555	6380.555	6380.555	bb			542.5306	108.5	8.5	1843.9
1202052401	13-Dinitrobenzene	168 > 138	11.97	8545.273	6380.555	8545.273	669.634	bb			500.8221	100.2	0.2	1163.5
1202052401	Tetryl	241 > 181	12.45	2054.558	6380.555	2054.558	161.002	bb			124.2034	24.8	-75.2	177.0
1202052401	Nitrobenzene	123 > 46	13.37	3860.936	6380.555	3860.936	302.555	bb			482.3155	96.5	-3.5	734.5
1202052401	4-Amino-26-dinitrotoluene	197 > 167	15.28	12261.056	38394.113	12261.056	159.674	MM	14-Apr-10	09:10:40	472.7394	94.5	-5.5	220.6
1202052401	2-Amino-46-dinitrotoluene	197 > 180	16.16	19250.043	38394.113	19250.043	250.690	bb			489.4403	97.9	-2.1	849.7
1202052401	246-Trinitrotoluene	227 > 210	15.10	16068.073	38394.113	16068.073	209.252	bb			481.0022	96.2	-3.8	551.2
1202052401	34-dinitrotoluene	182 > 152	14.08	20086.225	38394.113	20086.225	261.579	bb			253.6829	101.5	1.5	508.3
1202052401	26-dinitrotoluene	182 > 152	17.20	43920.125	38394.113	43920.125	571.964	MM	14-Apr-10	09:11:24	483.2665	96.7	-3.3	1291.7
1202052401	24-dinitrotoluene	182 > 152	17.86	10767.656	38394.113	10767.656	140.225	MM	14-Apr-10	09:15:59	537.2539	107.5	7.5	274.7
1202052401	26-dinitrotoluene-d3	185 > 155	17.05	38394.113	38394.113	38394.113	38394.113	bb			548.7511	109.8	9.8	2640.0
1202052401	2-Nitrotoluene	137 > 46	20.59	2942.221	38394.113	2942.221	38.316	bb			442.5088	88.5	-11.5	418.8
1202052401	4-Nitrotoluene	137 > 46	21.92	1557.443	38394.113	1557.443	20.282	bb			488.9735	97.8	-2.2	240.3
1202052401	3-Nitrotoluene	137 > 46	23.54	1994.317	38394.113	1994.317	25.972	bb			445.4674	89.1	-10.9	281.6
1202052401	PETN	361 > 62	23.93	37308.758	38394.113	37308.758	485.866	bb			535.9417	107.2	7.2	2201.8

1202052400

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259(247767001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052400

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220043.wiff

Date Analyzed: 23-MAR-10 02:12

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	6020	
59229-75-3	2,6-Diamino-4-nitrotoluene	6410	
618-87-1	3,5-Dinitroaniline	5460	
6629-29-4	2,4-Diamino-6-nitrotoluene	5890	
78-30-8	tris(o-cresyl) phosphate	5190	

*Concentration =

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

Jan 3/27/10

Sample Name: "1202052400" Sample ID: "95719621ER" File: "EXS03220043.w" Peak Name: "35-Dinitrobenz" Mass(es): "182.046.0 amu" Comment: "LCX83212S" Annotation: "

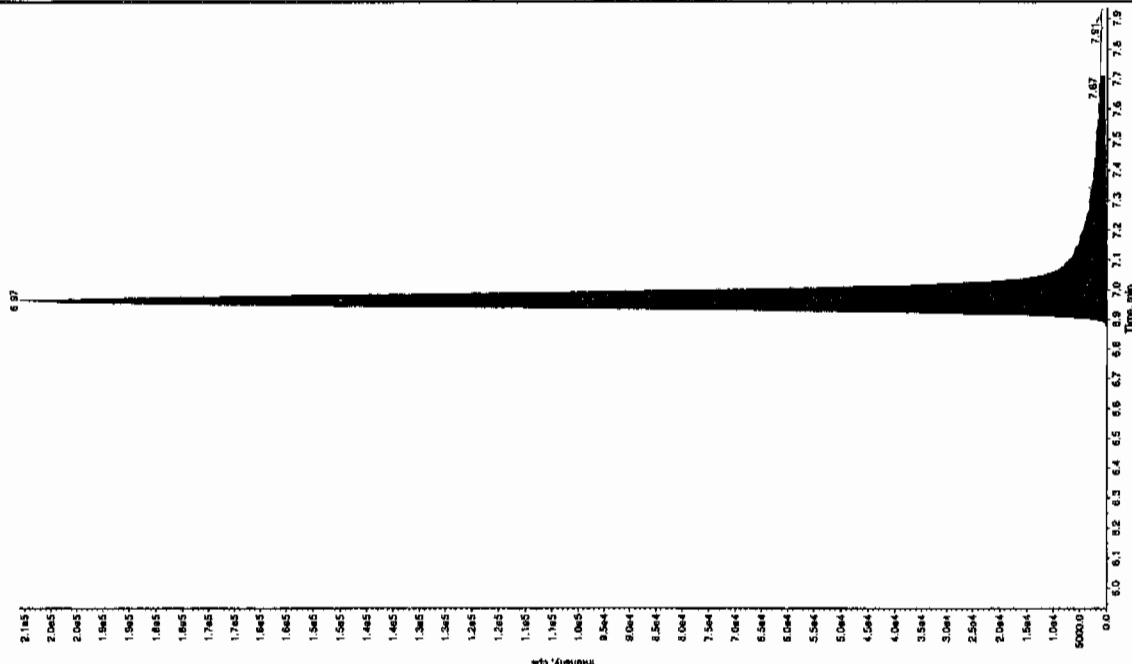
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3/23/2010
Acq. Date: 3/23/2010
Acq. Time: 2:12:57 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.17 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.00 min
Peak Height: 4.37e+005 counts
Peak Width: 108478.760 cps
Start Time: 8.12 min
End Time: 8.31 min



4/11/03/29/10

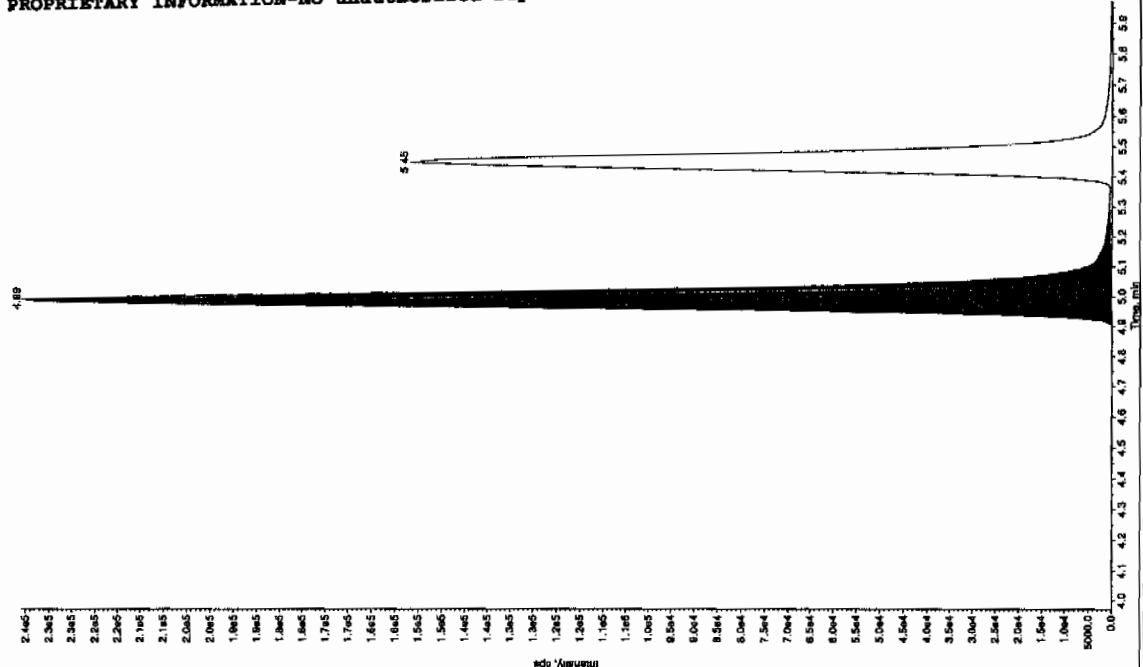
Sample Name: "1202052400" Sample ID: "95719621ER" File: "EXS03220043.w" Peak Name: "35-Dinitrobenz" Mass(es): "257.2204.9 amu" Comment: "LCX83212S" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3/23/2010
Acq. Date: 3/23/2010
Acq. Time: 2:12:57 AM
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: 6.93 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 6.93 min
Peak Height: 8.95e+005 counts
Peak Width: 205884.216 cps
Start Time: 6.85 min
End Time: 7.71 min



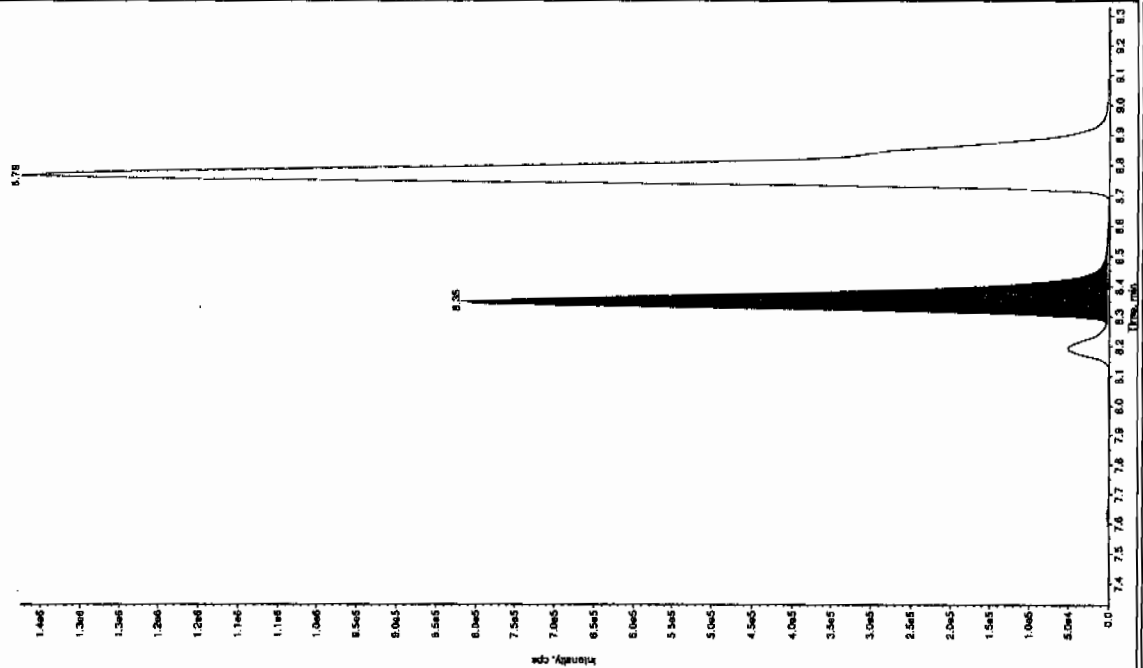
Sample Name: "1202052400" Sample ID: "957196JLER" File: "EX50220043.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "185.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 541 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 2:12:57 AK
 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: 4.97 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 4.99 min
 Area: 9.97e+005 counts
 Height: 235610.367 cps
 Start Time: 4.99 min
 End Time: 5.29 min



Sample Name: "34-Dinitrobenzene" Sample ID: "957196JLER" File: "EX50220043.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

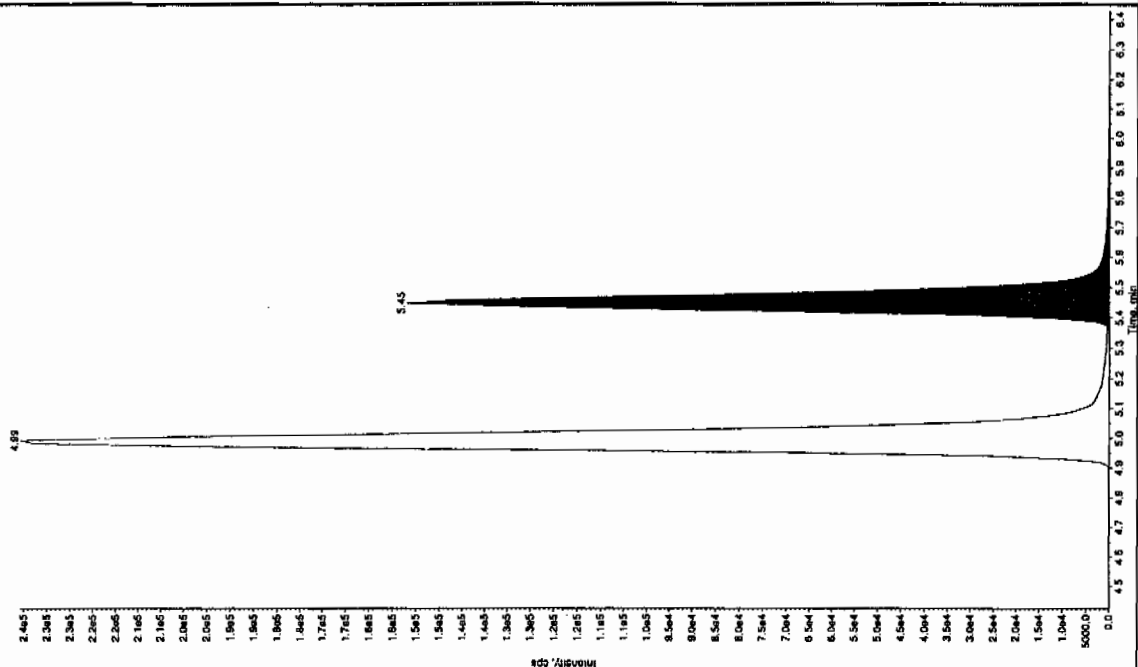
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 271 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 2:12:57 AK
 Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.05e+006 counts
 Height: 819982.801 cps
 Start Time: 8.33 min
 End Time: 8.55 min



IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

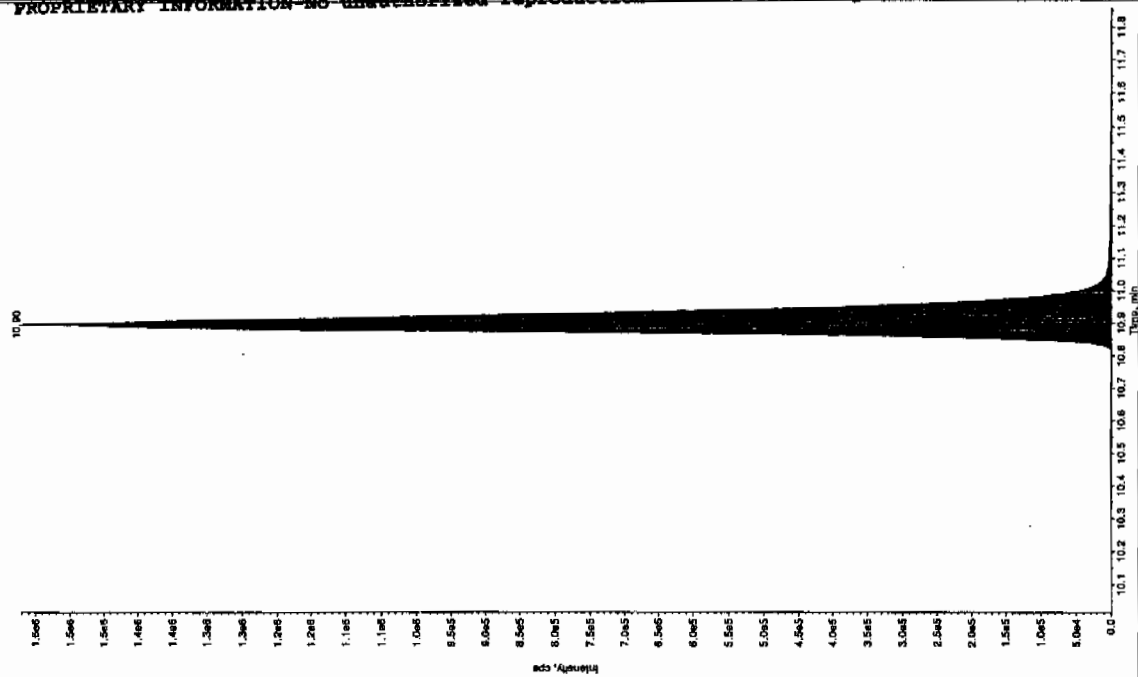
Sample Name: "1202052400" Sample ID: "95719921ER" File: "EXS03220043.wit"
 Peak Name: "24-Diamino-5-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 580 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 2/11/17 AM
 Acq. Time: 2:11:57 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.45 min
 Area: 6.07e06 counts
 Height: 151700 cps
 Start Time: 5.36 min
 End Time: 5.53 min



Sample Name: "1202052400" Sample ID: "95719921ER" File: "EXS03220043.wit"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 2/11/17 AM
 Acq. Time: 2:11:57 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8006.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.33e06 counts
 Height: 150930 cps
 Start Time: 10.6 min
 End Time: 11.2 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259(247767001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052401

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412046a

Date Analyzed: 13-APR-10 13:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4520	H
121-14-2	2,4-Dinitrotoluene	5260	H
121-82-4	RDX	5260	H
19406-51-0	4-Amino-2,6-dinitrotoluene	4700	H
2691-41-0	HMX	4500	H
35572-78-2	2-Amino-4,6-dinitrotoluene	4810	H
479-45-8	Tetryl	958	H
606-20-2	2,6-Dinitrotoluene	4760	H
78-11-5	PETN	5190	H
88-72-2	o-Nitrotoluene	4330	H
98-95-3	Nitrobenzene	4640	H
99-08-1	m-Nitrotoluene	4450	H
99-35-4	1,3,5-Trinitrobenzene	3840	H
99-65-0	m-Dinitrobenzene	4660	H
99-99-0	p-Nitrotoluene	5060	H

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0412046a

Date: 13-Apr-2010

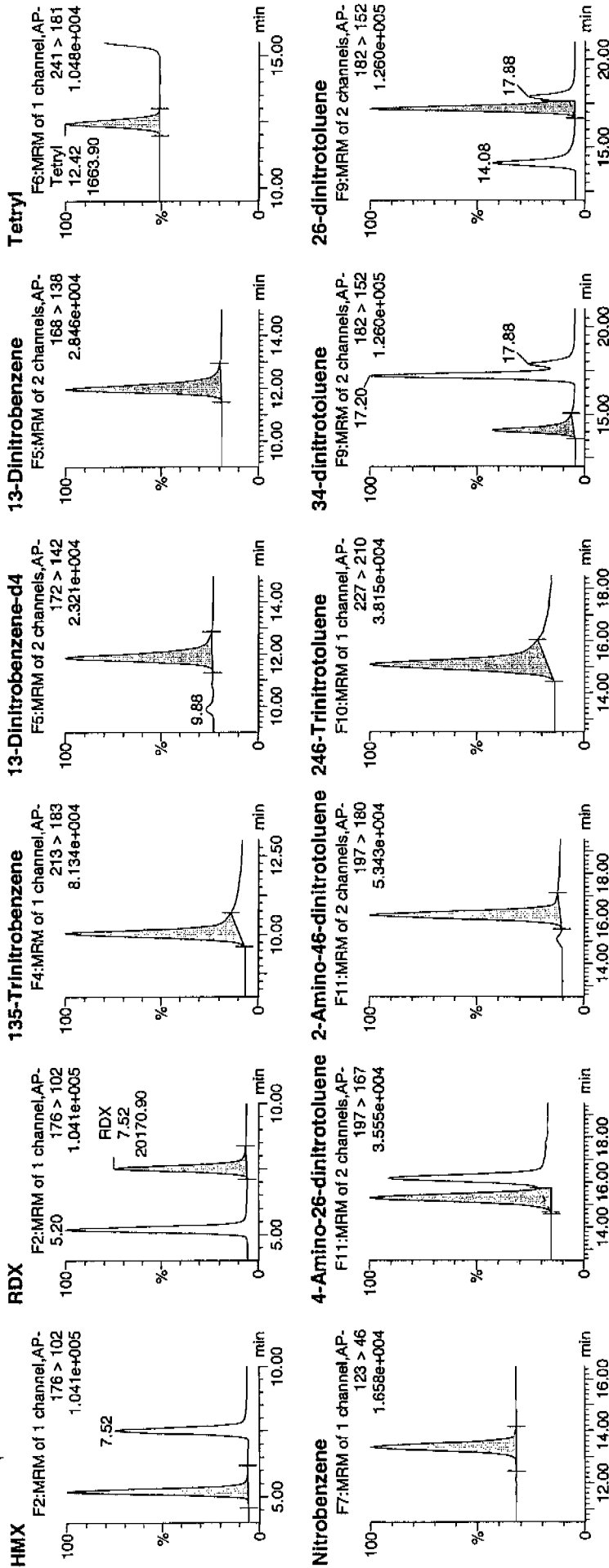
Time: 13:48:05

ID: 1202052402

Vial: 2:5,E

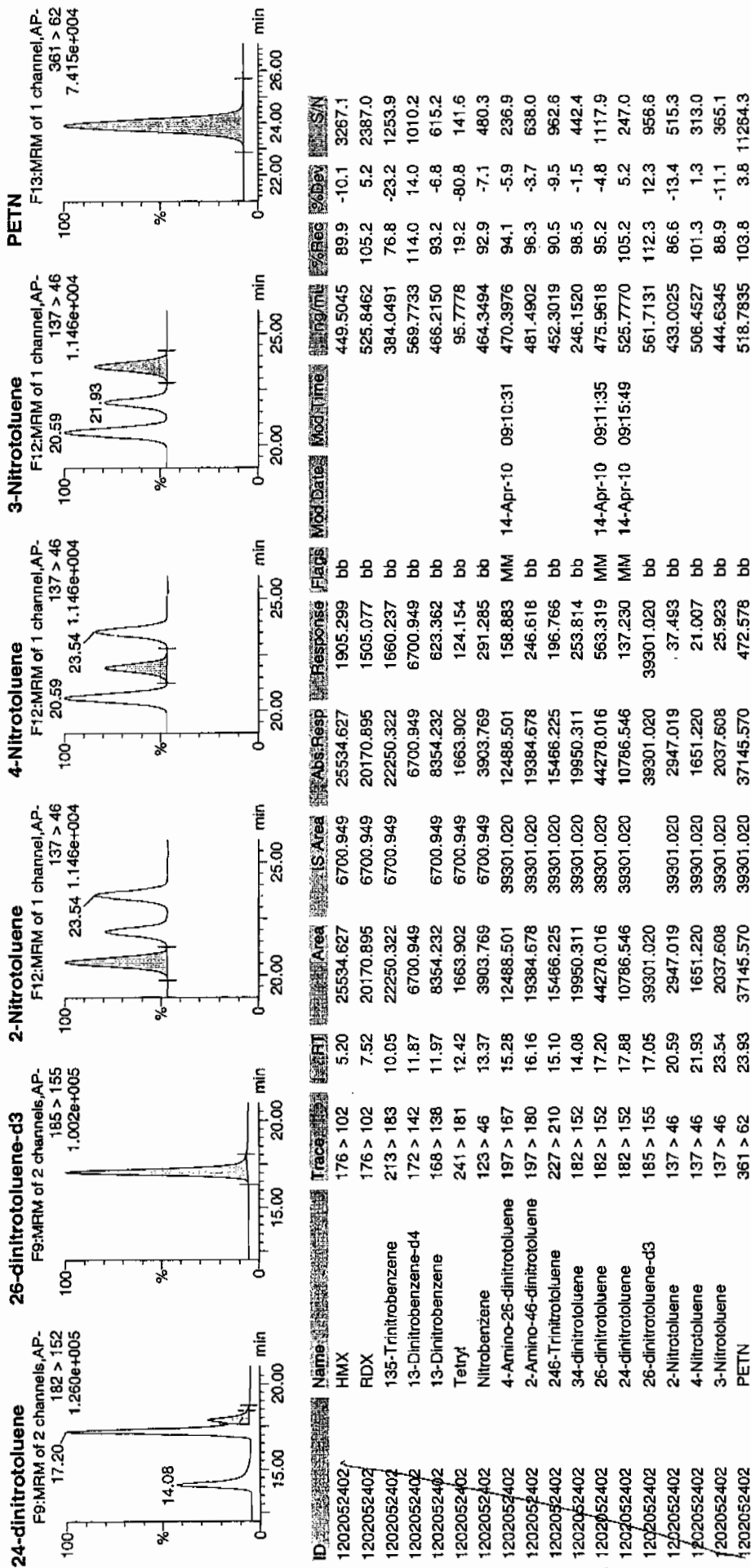
1077
4/14/10

1202052402 / 1202052402 / 247767001 MSB / 21



Handwritten signature: 4/14/10

Dataset: C:\MASSLYNX\New_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1202052401

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8259(247767001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1972

Matrix: SOIL

GEL Sample ID: 1202052401

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957195

Concentrated Extract Volume (mL) 10

Date Extracted: 26-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220044.wiff

Date Analyzed: 23-MAR-10 02:28

Units: ug/kg

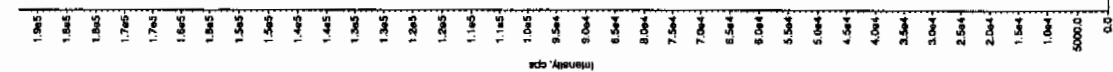
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5750	
59229-75-3	2,6-Diamino-4-nitrotoluene	6340	
618-87-1	3,5-Dinitroaniline	5510	
6629-29-4	2,4-Diamino-6-nitrotoluene	5660	
78-30-8	tris(o-cresyl) phosphate	5040	

*Concentration =

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

Sample Name: "1202052401" Sample ID: "55719621LER" File: "EX503220044.wif"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX832125" Annotation: ""

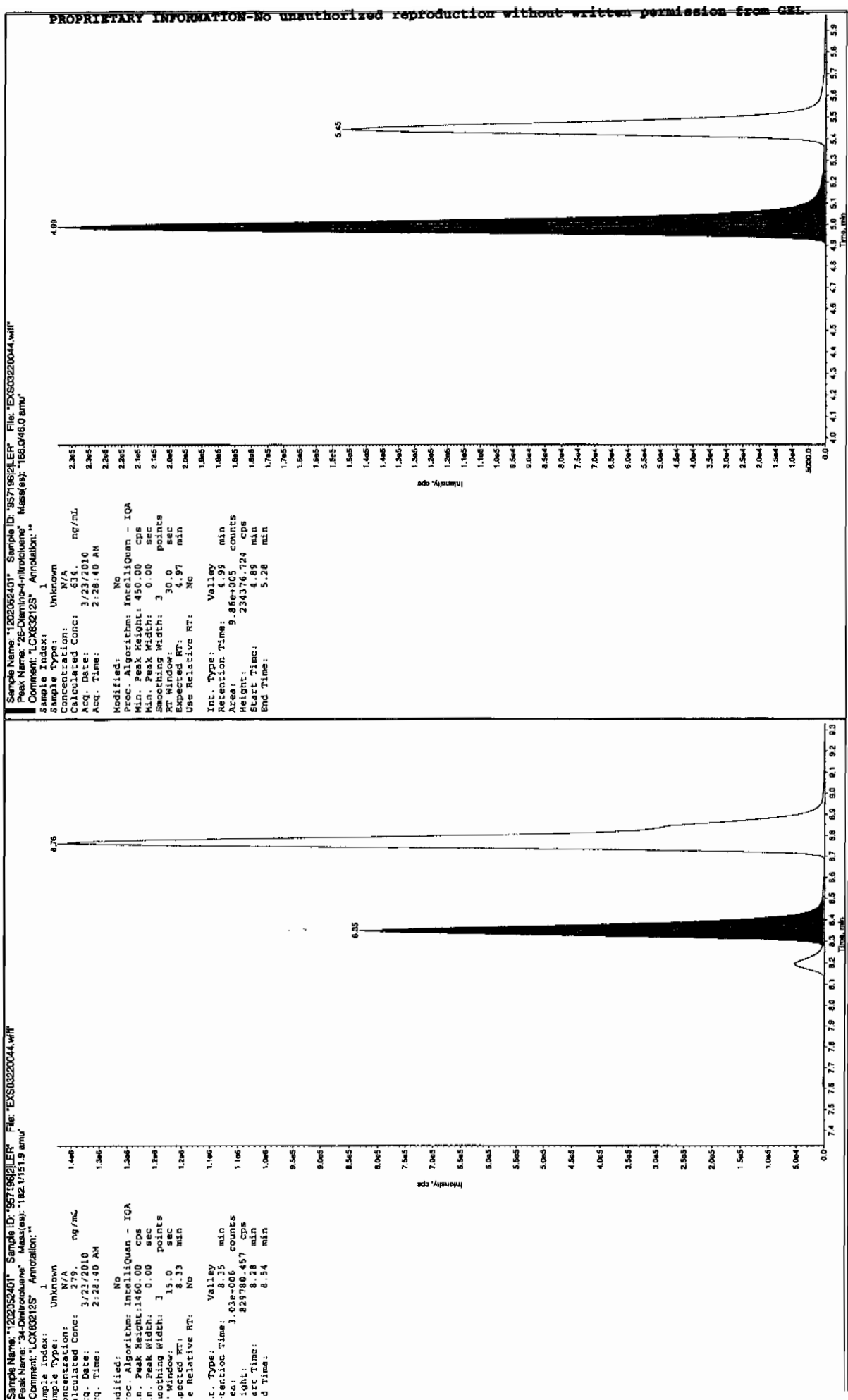
Sample ID:	Unknown		
Sample Type:	N/A		
Concentration:	3/23/2010	ng/mL	
Acq. Date:	2:28:40 AM		
Acq. Time:			
Modified:	No		
Acq. Algorithm:	IntelliQuan - IOA		
Peak Height:	2500.00	cps	
Peak Width:	0.00	sec	
Acquisition Width:	3	points	
Window:	30.0	sec	
Expected RT:	6.93	min	
Relative RT:	No		
Int. Type:	Valley		
Integration Time:	6.97	min	
Height:	8,514,005	counts	
Area:	188376.571	cps	
Att Time:	6.85	min	
Std Time:	8.04	min	



Sample Name: "1202052401" Sample ID: "957196121ER" File: "EX503220044.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index:	1	Unknown
Concentration:	551	ng/mL
Calculated Conc:	551	
Acq. Date:	3/23/2010	
Acq. Time:	2:28:40 AM	
Modified:	No	
Algorithm:	IntelliQuan - IQA	
Inn. Peak Weight:	2000.00	cps
Inn. Peak Width:	0.00	sec
Smoothing Width:	3	points
Window:	15.0	sec
Expected RT:	8.17	min
Relative RT:	No	
Std. Type:	Valley	
Retention Time:	8.10	min
Height:	4,306,005	counts
Start Time:	11:24:03	564 cps
End Time:	8.13	min
	8.31	min





Sample Name: "120205201" Sample ID: "9579821ER" File: "EXS03220044.wif"
Peak Name: "25-Dinitro-4-nitrofluorene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A ng/mL
Calculated Conc: 3/23/2010
Acq. Date: 2:28:40 AM
Acq. Time: 2:28:40 AM

Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Peak Threshold: 15.0 points
Expected RT: 4.97 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.99 min
Area: 9.86e+005 counts
Height: 234376.724 cps
Start Time: 4.89 min
End Time: 5.28 min

Intensity, cps

Time, min

4.99

2.3e5

2.2e5

2.1e5

2.0e5

1.9e5

1.8e5

1.7e5

1.6e5

1.5e5

1.4e5

1.3e5

1.2e5

1.1e5

1.0e5

9.0e4

8.0e4

7.0e4

6.0e4

5.0e4

4.0e4

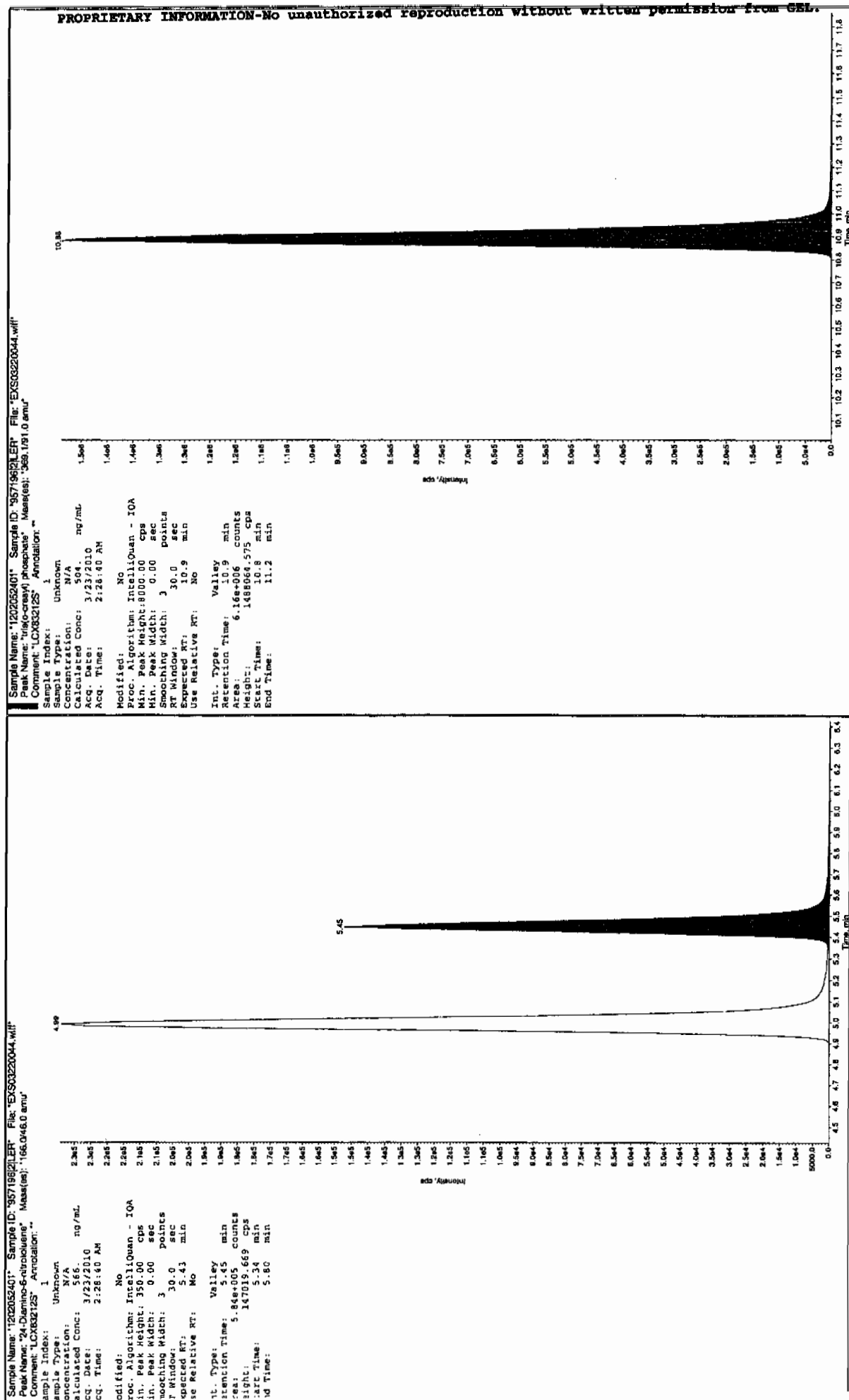
3.0e4

2.0e4

1.0e4

0.0

4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9



MISCELLANEOUS DATA

Prep Logbook Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 957195 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)
1202052398 MB	26-FEB-2010 16:03:00	2	10	5
1202052399 LCS	26-FEB-2010 16:03:00	2	10	5
247767001	26-FEB-2010 16:03:00	2	10	5
1202052400 MS (247767001)	26-FEB-2010 16:03:00	2	10	5
1202052401 MSD (247767001)	26-FEB-2010 16:03:00	2	10	5
247767002	26-FEB-2010 16:03:00	2	10	5
247767003	26-FEB-2010 16:03:00	2	10	5
247767004	26-FEB-2010 16:03:00	2	10	5
247767005	26-FEB-2010 16:03:00	2	10	5
247767006	26-FEB-2010 16:03:00	2	10	5
247767007	26-FEB-2010 16:03:00	2	10	5
247767008	26-FEB-2010 16:03:00	2	10	5
247767009	26-FEB-2010 16:03:00	2	10	5
247767010	26-FEB-2010 16:03:00	2	10	5
247767011	26-FEB-2010 16:03:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202052399	8321 Explosives LCS	IXX100225-03	.1	mL	Final Solvent: ACN
LCS	1202052399	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MS	1202052400	8321 Explosives LCS	IXX100225-03	.1	mL	
MS	1202052400	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MSD	1202052401	8321 Explosives LCS	IXX100225-03	.1	mL	
MSD	1202052401	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	EXX100223-02	.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: *AMK*
 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	955063	10-1908	2	LANL	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	1202052400	MAP	4/13/10 13:18	957196	10-1972	2	LANL	USE	S
EXP0412046a	1202052401	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: 03/22/10
 Extr. Injection Volume: 10uL
 Sequence Number: 032210exs
 Initial Calibration Date: 032210
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *Am*
 Date: *03/29/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100322-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03220001.wiff	XIBLK01	LER	3/22/2010 15:12			1		USE	B
EXS03220002.wiff	XIBLK01	LER	3/22/2010 15:28			1		USE	B
EXS03220003.wiff	WXXICAL-19	LER	3/22/2010 15:44			1		USE	I
EXS03220004.wiff	WXXICAL-20	LER	3/22/2010 16:00			1		USE	I
EXS03220005.wiff	WXXICAL-21	LER	3/22/2010 16:15			1		USE	I
EXS03220006.wiff	WXXICAL-22	LER	3/22/2010 16:31			1		DUSE	I
EXS03220007.wiff	WXXICAL-23	LER	3/22/2010 16:47			1		USE	I
EXS03220008.wiff	WXXICAL-24	LER	3/22/2010 17:02			1		USE	I
EXS03220009.wiff	WXXICAL-25	LER	3/22/2010 17:18			1		USE	I
EXS03220010.wiff	XIBLK02	LER	3/22/2010 17:34			1		USE	B
EXS03220011.wiff	WXXICV	LER	3/22/2010 17:50			1		USE	C
EXS03220012.wiff	XIBLK03	LER	3/22/2010 18:05			1		USE	B
EXS03220013.wiff	WXXCRI	LER	3/22/2010 18:21			1		USE	C
EXS03220014.wiff	1202059959	LER	3/22/2010 18:37	960370	VARIOUS	2	LANL	USE	S
EXS03220015.wiff	1202059960	LER	3/22/2010 18:52	960370	VARIOUS	2	LANL	USE	S
EXS03220016.wiff	248377002	LER	3/22/2010 19:08	960370	10-2157	2	LANL	USE	S
EXS03220017.wiff	248377003	LER	3/22/2010 19:24	960370	10-2157	2	LANL	USE	S
EXS03220018.wiff	248377004	LER	3/22/2010 19:40	960370	10-2157	2	LANL	USE	S
EXS03220019.wiff	248377005	LER	3/22/2010 19:55	960370	10-2157	2	LANL	USE	S
EXS03220020.wiff	248377006	LER	3/22/2010 20:11	960370	10-2157	2	LANL	USE	S
EXS03220021.wiff	248377007	LER	3/22/2010 20:27	960370	10-2157	2	LANL	USE	S
EXS03220022.wiff	WXXCCV	LER	3/22/2010 20:42			1		USE	C
EXS03220023.wiff	XIBLK04	LER	3/22/2010 20:58			1		USE	B
EXS03220024.wiff	WXXCRI	LER	3/22/2010 21:14			1		USE	C
EXS03220025.wiff	248420001	LER	3/22/2010 21:30	960370	10-2190	2	LANL	USE	S
EXS03220026.wiff	1202059961	LER	3/22/2010 21:45	960370	10-2190	2	LANL	USE	S
EXS03220027.wiff	1202059962	LER	3/22/2010 22:01	960370	10-2190	2	LANL	USE	S
EXS03220028.wiff	248420002	LER	3/22/2010 22:17	960370	10-2190	2	LANL	USE	S
EXS03220029.wiff	248420003	LER	3/22/2010 22:32	960370	10-2190	2	LANL	USE	S
EXS03220030.wiff	248420004	LER	3/22/2010 22:48	960370	10-2190	2	LANL	USE	S

EXS032200031.wiff	248420005	LER	3/22/2010 23:04	960370	10-2190	2	LANL	USE	S
EXS032200032.wiff	248420006	LER	3/22/2010 23:20	960370	10-2190	2	LANL	USE	S
EXS032200033.wiff	248420007	LER	3/22/2010 23:35	960370	10-2190	2	LANL	USE	S
EXS032200034.wiff	248420008	LER	3/22/2010 23:51	960370	10-2190	2	LANL	USE	S
EXS032200035.wiff	WXXCVC	LER	3/23/2010 0:07			1		USE	C
EXS032200036.wiff	XIBLK05	LER	3/23/2010 0:22			1		USE	B
EXS032200037.wiff	WXXCRI	LER	3/23/2010 0:38			1		USE	C
EXS032200038.wiff	248420009	LER	3/23/2010 0:54	960370	10-2190	2	LANL	USE	S
EXS032200039.wiff	XIBLK06	LER	3/23/2010 1:10			1		USE	B
EXS032200040.wiff	1202052398	LER	3/23/2010 1:25	957196	10-1972	2	LANL	USE	S
EXS032200041.wiff	1202052399	LER	3/23/2010 1:41	957196	10-1972	2	LANL	USE	S
EXS032200042.wiff	247767001	LER	3/23/2010 1:57	957196	10-1972	2	LANL	USE	S
EXS032200043.wiff	1202052400	LER	3/23/2010 2:12	957196	10-1972	2	LANL	USE	S
EXS032200044.wiff	1202052401	LER	3/23/2010 2:28	957196	10-1972	2	LANL	USE	S
EXS032200045.wiff	247767002	LER	3/23/2010 2:44	957196	10-1972	2	LANL	USE	S
EXS032200046.wiff	247767003	LER	3/23/2010 3:00	957196	10-1972	2	LANL	USE	S
EXS032200047.wiff	247767004	LER	3/23/2010 3:15	957196	10-1972	2	LANL	USE	S
EXS032200048.wiff	WXXCVC	LER	3/23/2010 3:31			1		USE	C
EXS032200049.wiff	XIBLK07	LER	3/23/2010 3:47			1		USE	B
EXS032200050.wiff	WXXCRI	LER	3/23/2010 4:02			1		USE	C
EXS032200051.wiff	247767005	LER	3/23/2010 4:18	957196	10-1972	2	LANL	USE	S
EXS032200052.wiff	247767006	LER	3/23/2010 4:34	957196	10-1972	2	LANL	USE	S
EXS032200053.wiff	247767007	LER	3/23/2010 4:50	957196	10-1972	2	LANL	USE	S
EXS032200054.wiff	247767008	LER	3/23/2010 5:05	957196	10-1972	2	LANL	USE	S
EXS032200055.wiff	247767009	LER	3/23/2010 5:21	957196	10-1972	2	LANL	USE	S
EXS032200056.wiff	247767010	LER	3/23/2010 5:37	957196	10-1972	2	LANL	USE	S
EXS032200057.wiff	247767011	LER	3/23/2010 5:53	957196	10-1972	2	LANL	USE	S
EXS032200058.wiff	WXXCVC	LER	3/23/2010 6:08			1		USE	C
EXS032200059.wiff	XIBLK08	LER	3/23/2010 6:24			1		USE	B
EXS032200060.wiff	WXXCRI	LER	3/23/2010 6:40			1		USE	C
EXS032200061.wiff	1202053627	LER	3/23/2010 6:55	957700	10-2009	2	LANL	USE	S
EXS032200062.wiff	1202053628	LER	3/23/2010 7:11	957700	10-2009	2	LANL	USE	S
EXS032200063.wiff	247897001	LER	3/23/2010 7:27	957700	10-2009	2	LANL	USE	S
EXS032200064.wiff	1202053629	LER	3/23/2010 7:42	957700	10-2009	2	LANL	USE	S
EXS032200065.wiff	1202053630	LER	3/23/2010 7:58	957700	10-2009	2	LANL	USE	S
EXS032200066.wiff	247897002	LER	3/23/2010 8:14	957700	10-2009	2	LANL	USE	S
EXS032200067.wiff	247897003	LER	3/23/2010 8:30	957700	10-2009	2	LANL	USE	S

EXS03220068.wiff	247897004	LER	3/23/2010 8:45	957700	10-2009	2	LANL	USE	S
EXS03220069.wiff	247897005	LER	3/23/2010 9:01	957700	10-2009	2	LANL	USE	S
EXS03220070.wiff	247897006	LER	3/23/2010 9:17	957700	10-2009	2	LANL	USE	S
EXS03220071.wiff	WXXCCV	LER	3/23/2010 9:33			1		USE	C
EXS03220072.wiff	XIBLK09	LER	3/23/2010 9:48			1		USE	B
EXS03220073.wiff	WXXCRI	LER	3/23/2010 10:04			1		USE	C
EXS03220074.wiff	247897007	LER	3/23/2010 10:20	957700	10-2009	2	LANL	USE	S
EXS03220075.wiff	247897008	LER	3/23/2010 10:35	957700	10-2009	2	LANL	USE	S
EXS03220076.wiff	247897009	LER	3/23/2010 10:51	957700	10-2009	2	LANL	USE	S
EXS03220077.wiff	247897010	LER	3/23/2010 11:07	957700	10-2009	2	LANL	USE	S
EXS03220078.wiff	247897011	LER	3/23/2010 11:23	957700	10-2009	2	LANL	USE	S
EXS03220079.wiff	247897012	LER	3/23/2010 11:38	957700	10-2009	2	LANL	USE	S
EXS03220080.wiff	247897013	LER	3/23/2010 11:54	957700	10-2009	2	LANL	USE	S
EXS03220081.wiff	247897014	LER	3/23/2010 12:10	957700	10-2009	2	LANL	USE	S
EXS03220082.wiff	247897015	LER	3/23/2010 12:26	957700	10-2009	2	LANL	USE	S
EXS03220083.wiff	247897016	LER	3/23/2010 12:42	957700	10-2009	2	LANL	USE	S
EXS03220084.wiff	WXXCCV	LER	3/23/2010 12:58			1		USE	C
EXS03220085.wiff	XIBLK10	LER	3/23/2010 13:13			1		USE	B
EXS03220086.wiff	WXXCRI	LER	3/23/2010 13:29			1		USE	C
EXS03220087.wiff	247897017	LER	3/23/2010 13:45	957700	10-2009	2	LANL	USE	S
EXS03220088.wiff	247897018	LER	3/23/2010 14:02	957700	10-2009	2	LANL	USE	S
EXS03220089.wiff	247897019	LER	3/23/2010 14:17	957700	10-2009	2	LANL	USE	S
EXS03220090.wiff	247897020	LER	3/23/2010 14:33	957700	10-2009	2	LANL	USE	S
EXS03220091.wiff	WXXCCV	LER	3/23/2010 14:49			1		USE	C
EXS03220092.wiff	XIBLK11	LER	3/23/2010 15:05			1		USE	B
EXS03220093.wiff	WXXCRI	LER	3/23/2010 15:20			1		USE	C
EXS03220094.wiff	UXX100223-02.1	LER	3/23/2010 15:36	SCREEN	SOLID	2	O2SI	USE	S
EXS03220095.wiff	XIBLK12	LER	3/23/2010 15:52			1		USE	B
EXS03220096.wiff	1202053631	LER	3/23/2010 16:08	957702	10-2012	2	LANL	USE	S
EXS03220097.wiff	1202053632	LER	3/23/2010 16:23	957702	10-2012	2	LANL	USE	S
EXS03220098.wiff	247904001	LER	3/23/2010 16:39	957702	10-2012	2	LANL	USE	S
EXS03220099.wiff	1202053633	LER	3/23/2010 16:55	957702	10-2012	2	LANL	USE	S
EXS03220100.wiff	1202053634	LER	3/23/2010 17:10	957702	10-2012	2	LANL	USE	S
EXS03220101.wiff	247904002	LER	3/23/2010 17:26	957702	10-2012	2	LANL	USE	S
EXS03220102.wiff	247904003	LER	3/23/2010 17:42	957702	10-2012	2	LANL	USE	S
EXS03220103.wiff	247904004	LER	3/23/2010 17:57	957702	10-2012	2	LANL	USE	S
EXS03220104.wiff	WXXCCV	LER	3/23/2010 18:13			1		USE	C

EXS03220105.wiff	XIBLK13	LER	3/23/2010 18:29				1	USE	B
EXS03220106.wiff	WXXCRI	LER	3/23/2010 18:44				1	USE	C
EXS03220107.wiff	247904005	LER	3/23/2010 19:00	957702	10-2012	LANL	2	USE	S
EXS03220108.wiff	247904006	LER	3/23/2010 19:16	957702	10-2012	LANL	2	USE	S
EXS03220109.wiff	247904007	LER	3/23/2010 19:32	957702	10-2012	LANL	2	USE	S
EXS03220110.wiff	247904008	LER	3/23/2010 19:47	957702	10-2012	LANL	2	USE	S
EXS03220111.wiff	247904009	LER	3/23/2010 20:03	957702	10-2012	LANL	2	USE	S
EXS03220112.wiff	247904010	LER	3/23/2010 20:19	957702	10-2012	LANL	2	USE	S
EXS03220113.wiff	247904011	LER	3/23/2010 20:34	957702	10-2012	LANL	2	USE	S
EXS03220114.wiff	247904012	LER	3/23/2010 20:50	957702	10-2012	LANL	2	USE	S
EXS03220115.wiff	247904013	LER	3/23/2010 21:06	957702	10-2012	LANL	2	USE	S
EXS03220116.wiff	247904014	LER	3/23/2010 21:22	957702	10-2012	LANL	2	USE	S
EXS03220117.wiff	WXXCCV	LER	3/23/2010 21:37				1	USE	C
EXS03220118.wiff	XIBLK14	LER	3/23/2010 21:53				1	USE	B
EXS03220119.wiff	WXXCRI	LER	3/23/2010 22:09				1	USE	C
EXS03220120.wiff	247904015	LER	3/23/2010 22:24	957702	10-2012	LANL	2	DUSE-RA	S
EXS03220121.wiff	247904016	LER	3/23/2010 22:40	957702	10-2012	LANL	2	DUSE-RA	S
EXS03220122.wiff	247904017	LER	3/23/2010 22:56	957702	10-2012	LANL	2	DUSE-RA	S
EXS03220123.wiff	WXXCCV	LER	3/23/2010 23:12				1	DUSE	C
EXS03220124.wiff	XIBLK15	LER	3/23/2010 23:27				1	DUSE	B
EXS03220125.wiff	WXXCRI	LER	3/23/2010 23:43				1	DUSE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 817079

Revision No.: 1

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: 957196	Sample Numbers: See Below		
<p>Potentially affected work order(s)(SDG): 247767(10-1972)</p> <p>Application Issues:</p> <p>Sample Analyzed out of Holding</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: 247767001, 247767002, 247767003, 247767004, 247767005, 247767006, 247767007, 247767008, 247767009, 247767010, 247767011, 1202052400(MS) and 1202052401(MSD).</p> <p>2. The LCS (1202052399) did not meet spike recovery limits for Tetryl at 36.2% with limits of 51-112%, 2,4-Diamino-6-nitrotoluene at 119% with limits of 52-114% and 2,6-Diamino-4-nitrotoluene at 123% with limits of 64-122%.</p> <p>3. The MS (1202052400) did not meet spike recovery limits for Tetryl at 24.8%. The recovery limits are 36-124%.</p> <p>4. The MSD (1202052401) did not meet spike recovery limits for Tetryl at 19.2%. The recovery limits are 36-124%.</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., 3. & 4. Since the Tetryl MS recovery falls within the DOD QSM marginal exceedance limits of 22-139%, method control was demonstrated. While the LCS exhibited a high bias for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene, both the MS and MSD met acceptance limits for each analyte. 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene were not detected in the associated samples. The samples are beyond twice the hold time; therefore, 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 10-1972**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 958315
Prep Batch Number: 958311

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247767001	RE15-10-8259
247767002	RE15-10-8261
247767003	RE15-10-8257
247767004	RE15-10-8260
247767005	RE15-10-8258
247767006	RE15-10-8263
247767007	RE15-10-8255
247767008	RE15-10-8256
247767009	RE15-10-8262
247767010	RE15-10-8265
247767011	RE15-10-8269
1202055156	Method Blank (MB)
1202055157	Laboratory Control Sample (LCS)
1202055158	247820002(CAPU-10-12535) Matrix Spike (MS)
1202055159	247820002(CAPU-10-12535) 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.

One of the five quantified peaks did not meet the acceptance criteria in Aroclor-1260 standard analyzed for this SDG; however, the average concentration of the five quantitated peaks met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB 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

A LANL sample of similar matrix associated with another SDG (#10-1994) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data are included in the package summarizing the results.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD 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

The samples in this SDG did not require dilutions.

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 report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integration

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 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 VIIs 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	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-

ECD1A.I_2	Chromatograph HP Gas Chromatograph	HP6890 Series ECD Rtx-CLP II	CLPesticide) 30m x 0.25mm, 0.20um (Rtx- CLPesticideII)
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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: Jimmi Cao

Date: 3/22/10

Roadmap for LANL 10-1972 PCB

This roadmap was analyzed by yip00818 on 03-02-2010, 09:54.

This roadmap was reviewed by jim01140 on 03-05-2010, 18:41.

This roadmap was packaged by yml on 03-20-2010, 08:50.

This roadmap was validated by jim01140 on 03-22-2010, 08:40.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	intime	sublst	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b068f6801.d	247767001	sample	01-MAR-2010	18:41	10-1972.sub	RE15-10-8259	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b069f6901.d	247767002	sample	01-MAR-2010	18:54	10-1972.sub	RE15-10-8261	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b070f7001.d	247767003	sample	01-MAR-2010	19:07	10-1972.sub	RE15-10-8257	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b071f7101.d	247767004	sample	01-MAR-2010	19:19	10-1972.sub	RE15-10-8260	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b072f7201.d	247767005	sample	01-MAR-2010	19:32	10-1972.sub	RE15-10-8258	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b073f7301.d	247767006	sample	01-MAR-2010	19:44	10-1972.sub	RE15-10-8263	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b074f7401.d	247767007	sample	01-MAR-2010	19:57	10-1972.sub	RE15-10-8255	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b075f7501.d	247767008	sample	01-MAR-2010	20:10	10-1972.sub	RE15-10-8256	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b078f7801.d	247767009	sample	01-MAR-2010	20:48	10-1972.sub	RE15-10-8262	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b079f7901.d	247767010	sample	01-MAR-2010	21:00	10-1972.sub	RE15-10-8265	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b080f8001.d	247767011	sample	01-MAR-2010	21:13	10-1972.sub	RE15-10-8269	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	intime	sublst	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b068f6801.d	247767001	sample	01-MAR-2010	18:41	10-1972.sub	RE15-10-8259	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b069f6901.d	247767002	sample	01-MAR-2010	18:54	10-1972.sub	RE15-10-8261	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b070f7001.d	247767003	sample	01-MAR-2010	19:07	10-1972.sub	RE15-10-8257	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b071f7101.d	247767004	sample	01-MAR-2010	19:19	10-1972.sub	RE15-10-8260	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b072f7201.d	247767005	sample	01-MAR-2010	19:32	10-1972.sub	RE15-10-8258	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b073f7301.d	247767006	sample	01-MAR-2010	19:44	10-1972.sub	RE15-10-8263	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b074f7401.d	247767007	sample	01-MAR-2010	19:57	10-1972.sub	RE15-10-8255	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b075f7501.d	247767008	sample	01-MAR-2010	20:10	10-1972.sub	RE15-10-8256	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b078f7801.d	247767009	sample	01-MAR-2010	20:48	10-1972.sub	RE15-10-8262	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b079f7901.d	247767010	sample	01-MAR-2010	21:00	10-1972.sub	RE15-10-8265	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b080f8001.d	247767011	sample	01-MAR-2010	21:13	10-1972.sub	RE15-10-8269	1.00000	958315	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/030110.b/066f6601.d	1202055156	mb	01-MAR-2010	18:16	10-1972.sub	PBLK01	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b/067f6701.d	1202055157	lcs	01-MAR-2010	18:29	10-1972.sub	PBLK01LCS	1.00000	958315	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/030110.b/066b6601.d	1202055156	mb	01-MAR-2010	18:16	10-1972.sub	PBLK01	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl1a.i/030110.b/067b6701.d	1202055157	lcs	01-MAR-2010	18:29	10-1972.sub	PBLK01LCS	1.00000	958315	UPLOAD BOTH COLUMNS, USE HIGHER

SAMPLE DATA SUMMARY

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767007

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.2
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	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767008

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.8
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	3.43	ug/kg	1.14	3.43	1
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	1
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	1
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	1
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	1
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	1
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1972
Lab Sample ID: 247767003

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8257
Batch ID: 958315
Run Date: 03/01/2010 19:07
Prep Date: 02/27/2010 10:30
Data File: 070f7001.d
070b7001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767005

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8258
Batch ID: 958315
Run Date: 03/01/2010 19:32
Prep Date: 02/27/2010 10:30
Data File: 072f7201.d
072b7201.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767001Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 2.7
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	3.43	ug/kg	1.14	3.43	1
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	1
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	1
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	1
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	1
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	1
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1972
Lab Sample ID: 247767004

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.06 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8260
Batch ID: 958315
Run Date: 03/01/2010 19:19
Prep Date: 02/27/2010 10:30
Data File: 071f7101.d
071b7101.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number:	10-1972	Date Collected:	02/16/2010 12:00	Matrix:	R
Lab Sample ID:	247767002	Date Received:	02/23/2010 08:50	%Moisture:	1.6
Client ID:	RE15-10-8261	Client:	LANL010	Project:	LANL01004
Batch ID:	958315	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	03/01/2010 18:54	Inst:	ECD1A.J	Dilution:	1
Prep Date:	02/27/2010 10:30	Analyst:	YSJ	Inj. Vol:	1 uL
Data File:	069f6901.d	Aliquot:	30.02 g	Final Volume:	1 mL
	069b6901.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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767009

Client ID: RE15-10-8262
Batch ID: 958315
Run Date: 03/01/2010 20:48
Prep Date: 02/27/2010 10:30
Data File: 078f7801.d
078b7801.d

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.8
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1972

Lab Sample ID: 247767006

Client ID: RE15-10-8263

Batch ID: 958315

Run Date: 03/01/2010 19:44

Prep Date: 02/27/2010 10:30

Data File: 073f7301.d

073b7301.d

Date Collected: 02/16/2010 12:00

Date Received: 02/23/2010 08:50

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: R

% Moisture: 1.9

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	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767010

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1AJ
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 1.8
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767011

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.1
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 1.9
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1972

Matrix Type: SOLID

CAP Column (1) : CLP1

CAP Column (2) : CLP2

Sample ID	Client ID	4CMX 1 %REC #	4CMX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #
1202055156	MB for batch 958311	49	49	73	66
1202055157	LCS for batch 958311	51	50	66	64
247767001	RE15-10-8259	50	50	67	61
247767002	RE15-10-8261	44	44	65	60
247767003	RE15-10-8257	44	45	69	63
247767004	RE15-10-8260	47	47	68	63
247767005	RE15-10-8258	41	42	65	59
247767006	RE15-10-8263	40	40	50	52
247767007	RE15-10-8255	36	36	57	54
247767008	RE15-10-8256	47	47	63	58
247767009	RE15-10-8262	43	43	64	59
247767010	RE15-10-8265	49	49	64	58
247767011	RE15-10-8269	48	48	63	58

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: 10-1972

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 958311

Matrix: SOIL

Lab Sample ID:1202055157

Instrument: ECD1A.I

Analysis Date: 03/01/2010 18:29

Dilution: 1

Analyst: YS1

Pre Batch ID 958311

Inj. Vol: 1 uL

Batch ID: 958315

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	19.8	59	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	25.8	77	45-118

PCB

Page 1 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1994

Sample Type: Matrix Spike

Client ID: CAPU-10-12535MS

Matrix: R

Lab Sample ID: 1202055158

%Moisture: 11.3

Instrument: ECD1A.I

Analysis Date: 03/01/2010 22:03

Dilution: 1

Analyst: YS1

Pren Batch ID: 958311

Inj. Vol: 1 uL

Batch ID: 958315

CAS No	Paramname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	37.6	0.00 U	19.8	53	23-119
11096-82-5	MS Aroclor-1260	37.6	0.00 U	25.9	69	28-124

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1994

Sample Type: Matrix Spike Duplicate

Client ID: CAPU-10-12535MSD

Matrix: R

Lab Sample ID:1202055159

%Moisture: 11.3

Instrument: ECD1A.I

Analysis Date: 03/01/2010 22:16

Dilution: 1

Analyst: YS1

Prep Batch II 958311

Inj. Vol: 1 uL

Batch ID: 958315

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	37.5	0.00 U	22.7	60	23-119	14	0-28
11096-82-5	MSD Aroclor-1260	37.5	0.00 U	28.7	76	28-124	10	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1972	Client:	L.A.NL010	Matrix:	SOIL
Client ID:	MB for batch 958311	Instrument ID:	ECD1A.J_2	Data File:	066b6601-1.d
Lab Sample ID:	1202055156		ECD1A.J_1		066f6601-1.d
Column:	CLP2	Prep Date:	02/27/2010 10:30	Analyzed:	03/01/10 18:16
	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 958311	1202055157	067f6701-1.d 067b6701-1.d	03/01/10	1829
02 RE15-10-8259	247767001	068f6801.d 068b6801.d	03/01/10	1841
03 RE15-10-8261	247767002	069f6901.d 069b6901.d	03/01/10	1854
04 RE15-10-8257	247767003	070f7001.d 070b7001.d	03/01/10	1907
05 RE15-10-8260	247767004	071f7101.d 071b7101.d	03/01/10	1919
06 RE15-10-8258	247767005	072f7201.d 072b7201.d	03/01/10	1932
07 RE15-10-8263	247767006	073f7301.d 073b7301.d	03/01/10	1944
08 RE15-10-8255	247767007	074f7401.d 074b7401.d	03/01/10	1957
09 RE15-10-8256	247767008	075f7501.d 075b7501.d	03/01/10	2010
10 RE15-10-8262	247767009	078f7801.d 078b7801.d	03/01/10	2048
11 RE15-10-8265	247767010	079f7901.d 079b7901.d	03/01/10	2100
12 RE15-10-8269	247767011	080f8001.d 080b8001.d	03/01/10	2113

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767007

Client ID: RE15-10-8255
Batch ID: 958315
Run Date: 03/01/2010 19:57
Prep Date: 02/27/2010 10:30
Data File: 074f7401.d
074b7401.d

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.2
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	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/074f7401.d

Lab Smp Id: 247767007

Client Smp ID: RE15-10-8255

Inj Date : 01-MAR-2010 19:57

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247767007|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8255|||

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 74

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	1.20000	% 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	1.919	-0.001	30723654	71.3447	2.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.223	5.227	-0.004	35139134	114.352	3.8	80.00- 120.00	100.00

Data File: /chem/ecod1a.i/030110.b/074f7401.d

Date : 01-MAR-2010 19:57

Client ID: RE15-10-8255

Sample Info: 1247767007111

Volume Injected (uL): 1.0

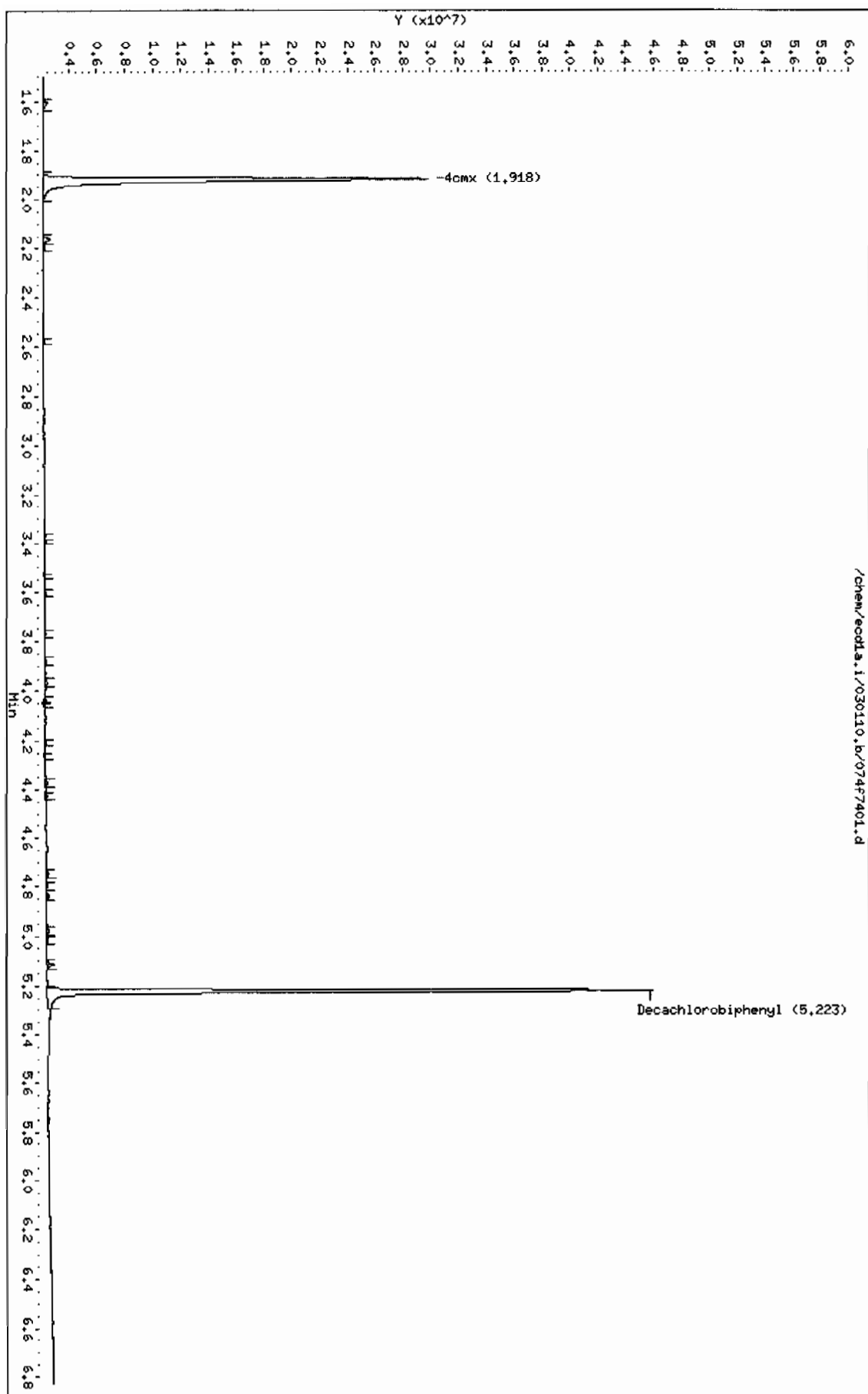
Column phase: CLP1

Instrument: ecod1a.i

Operator: YS1

Column diameter: 0.25

/chem/ecod1a.i/030110.b/074f7401.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/074b7401.d

Lab Smp Id: 247767007

Client Smp ID: RE15-10-8255

Inj Date : 01-MAR-2010 19:57

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247767007|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8255|

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 74

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	1.20000	% Moisture

Cpnd Variable

Local Compound Variable

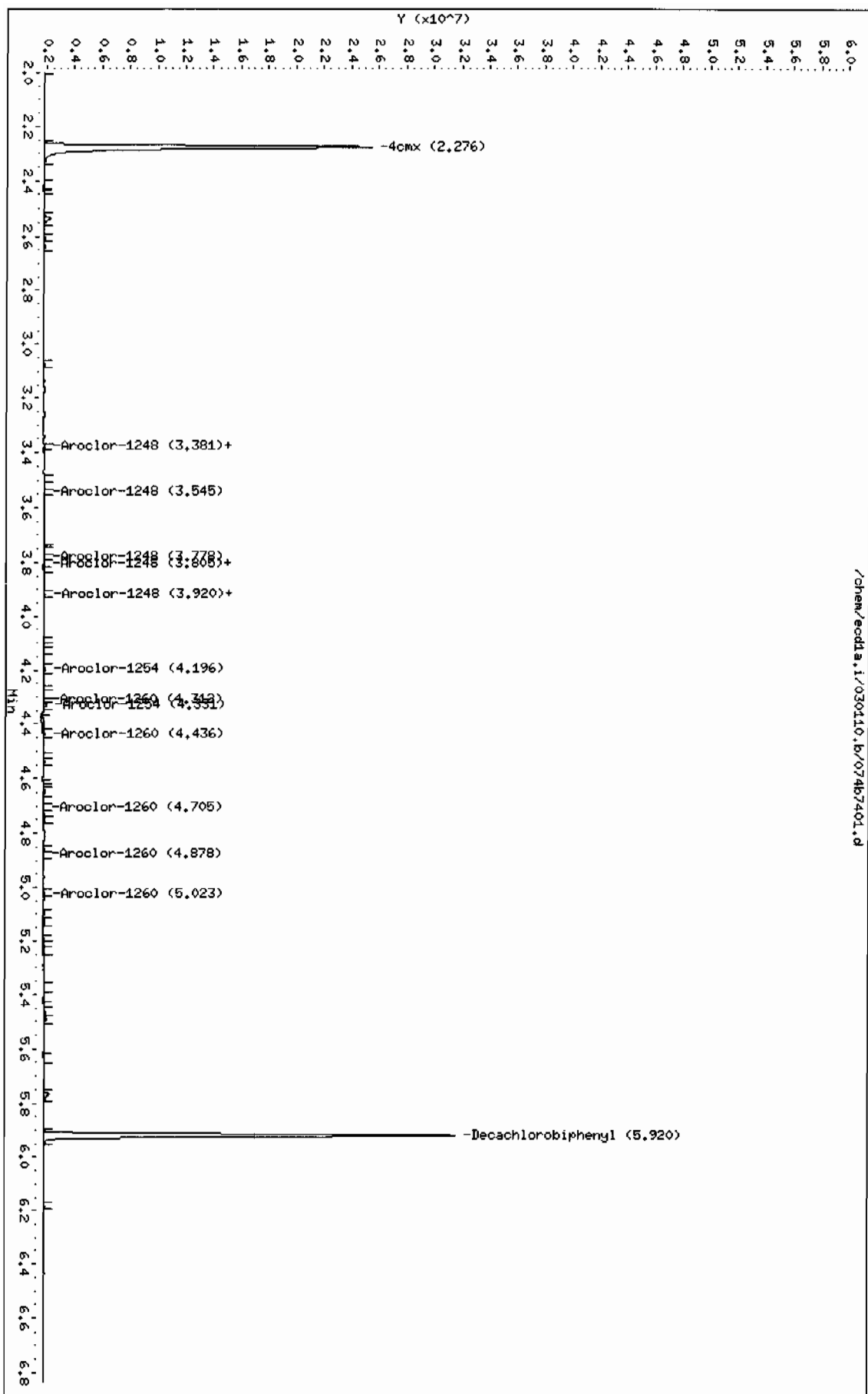
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx					CAS #: 877-09-8			
2.276	2.278	-0.002	21321427	71.6935	2.4	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.920	5.923	-0.003	22773627	107.678	3.6	80.00- 120.00	100.00	

Data File: /chem/eodda.i/030110.b/074b7401.d
Date: 01-MAR-2010 19:57
Client ID: RE15-10-8285
Sample Info: (24776700711)
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eodda.i
Operator: YSL
Column diameter: 0.25



PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767008Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 2.8
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	3.43	ug/kg	1.14	3.43	1
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	1
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	1
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	1
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	1
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	1
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/075f7501.d

Lab Smp Id: 247767008

Client Smp ID: RE15-10-8256

Inj Date : 01-MAR-2010 20:10

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247767008|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8256|||

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 75

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	2.80000	% Moisture

Cpnd Variable

Local Compound Variable

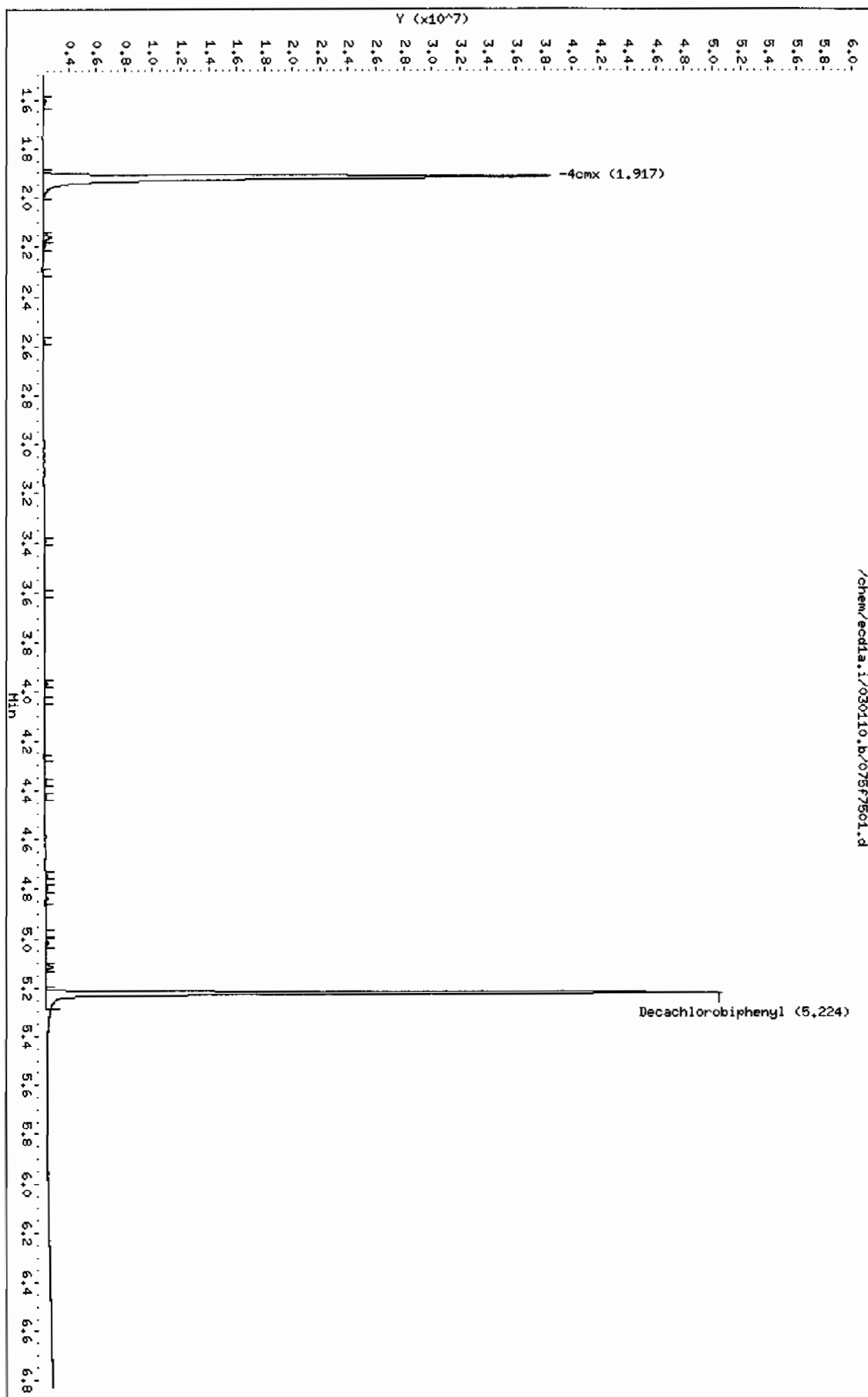
CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.917	1.919	-0.002	40162741	93.2636	3.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.224	5.227	-0.003	39000359	126.917	4.4	80.00- 120.00	100.00

Data File: /chem/ecdl1.i/030110.b/075f7501.d
Date : 01-MAR-2010 20:10
Client ID: RE15-10-8286
Sample Info: 1247767008/11
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/030110.b/075f7501.d



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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/075b7501.d

Lab Smp Id: 247767008

Client Smp ID: RE15-10-8256

Inj Date : 01-MAR-2010 20:10

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247767008|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8256|1|

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 75

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	2.80000	% Moisture

Cpnd Variable

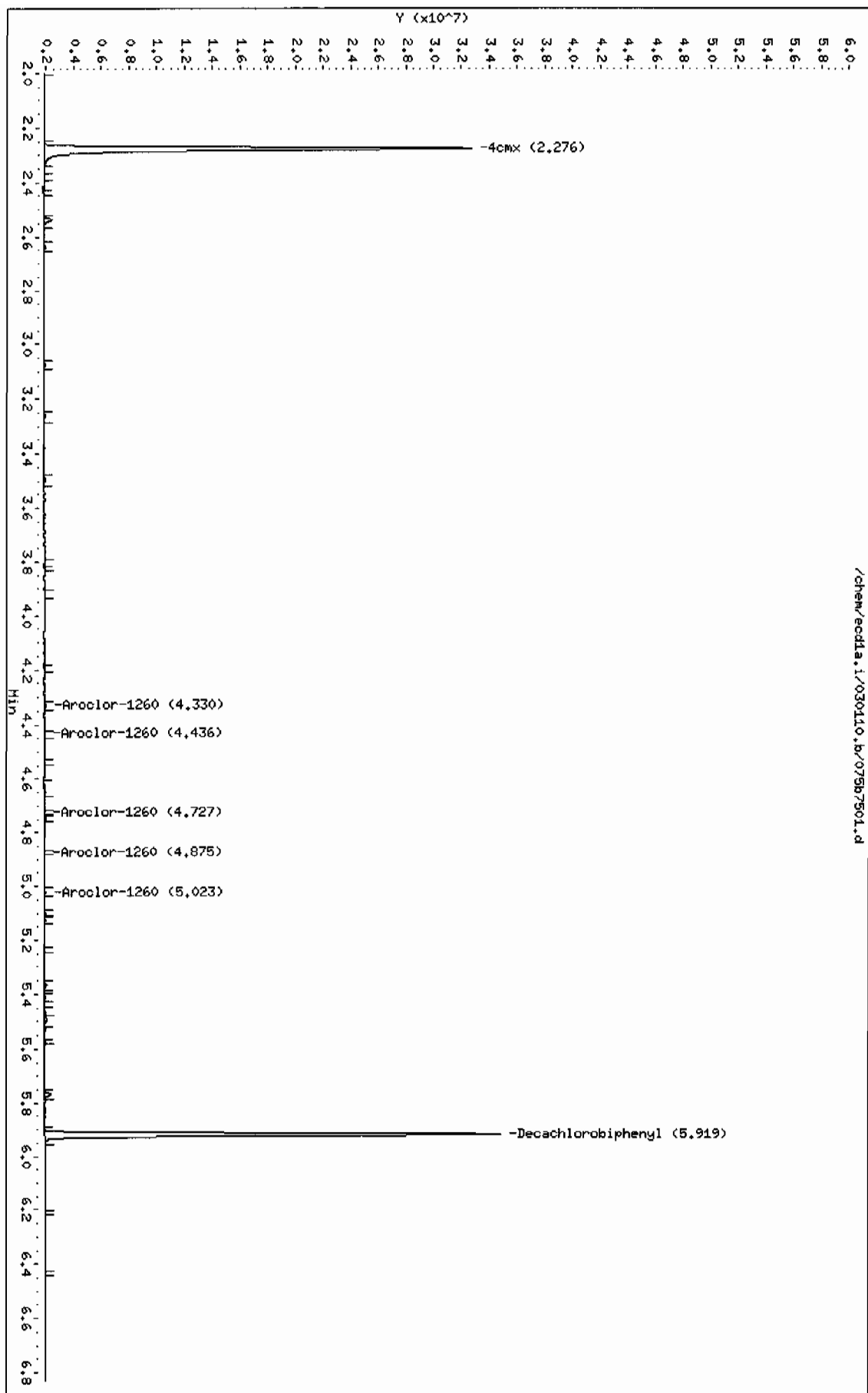
Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8			
\$ 11 4cmx	2.276	2.278	-0.002	27964492	94.0309	3.2	80.00- 120.00	100.00

					CAS #: 2051-24-3			
\$ 12 Decachlorobiphenyl	5.919	5.923	-0.004	24731368	116.934	4.0	80.00- 120.00	100.00

Data File: /chem/eod1a.i/030110.b/075b7501.d
Date : 01-MAR-2010 20:10
Client ID: RE15-10-8256
Sample Info: 1247767008111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767003Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 1.3
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	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/030110.b/070f7001.d

Lab Smp Id: 247767003

Client Smp ID: RE15-10-8257

Inj Date : 01-MAR-2010 19:07

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247767003|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8257|||

Comment :

Method : /chem/ecd1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 70

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	30.04000	Weight of sample extracted (g)
M	1.28890	% Moisture

Cpnd Variable

Local Compound Variable

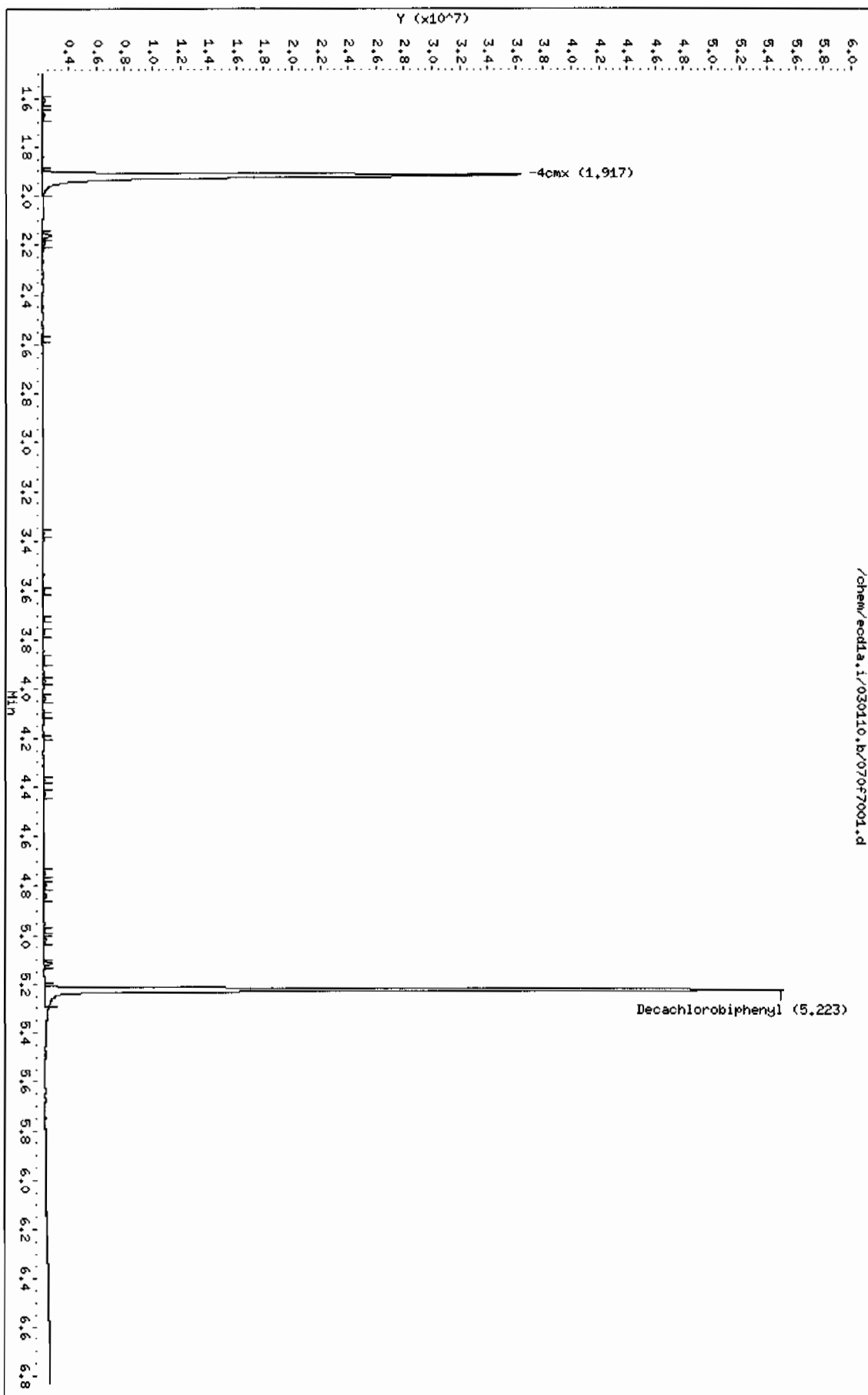
CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO
			RESPONSE (ug/L)		(ug/Kg)		
==	=====	=====	=====	=====	=====	=====	-----
\$ 11 4cmx			CAS #: 877-09-8				
1.917	1.919	-0.002	38214620	88.7398	3.0	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.223	5.227	-0.004	42117811	137.062	4.6	80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/07077001.d
Date : 01-MAR-2010 19:07
Client ID: RE15-10-8257
Sample Info: 124767003141
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

Page 1



Data File: /chem/ecdla.i/030110.b/070b7001.d
Report Date: 05-Mar-2010 06:15

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/070b7001.d

Lab Smp Id: 247767003

Client Smp ID: RE15-10-8257

Inj Date : 01-MAR-2010 19:07

Operator : YSl

Inst ID: ecdla.i

Smp Info : |247767003|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8257|

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 70

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	30.04000	Weight of sample extracted (g)
M	1.28890	% Moisture

Cpnd Variable

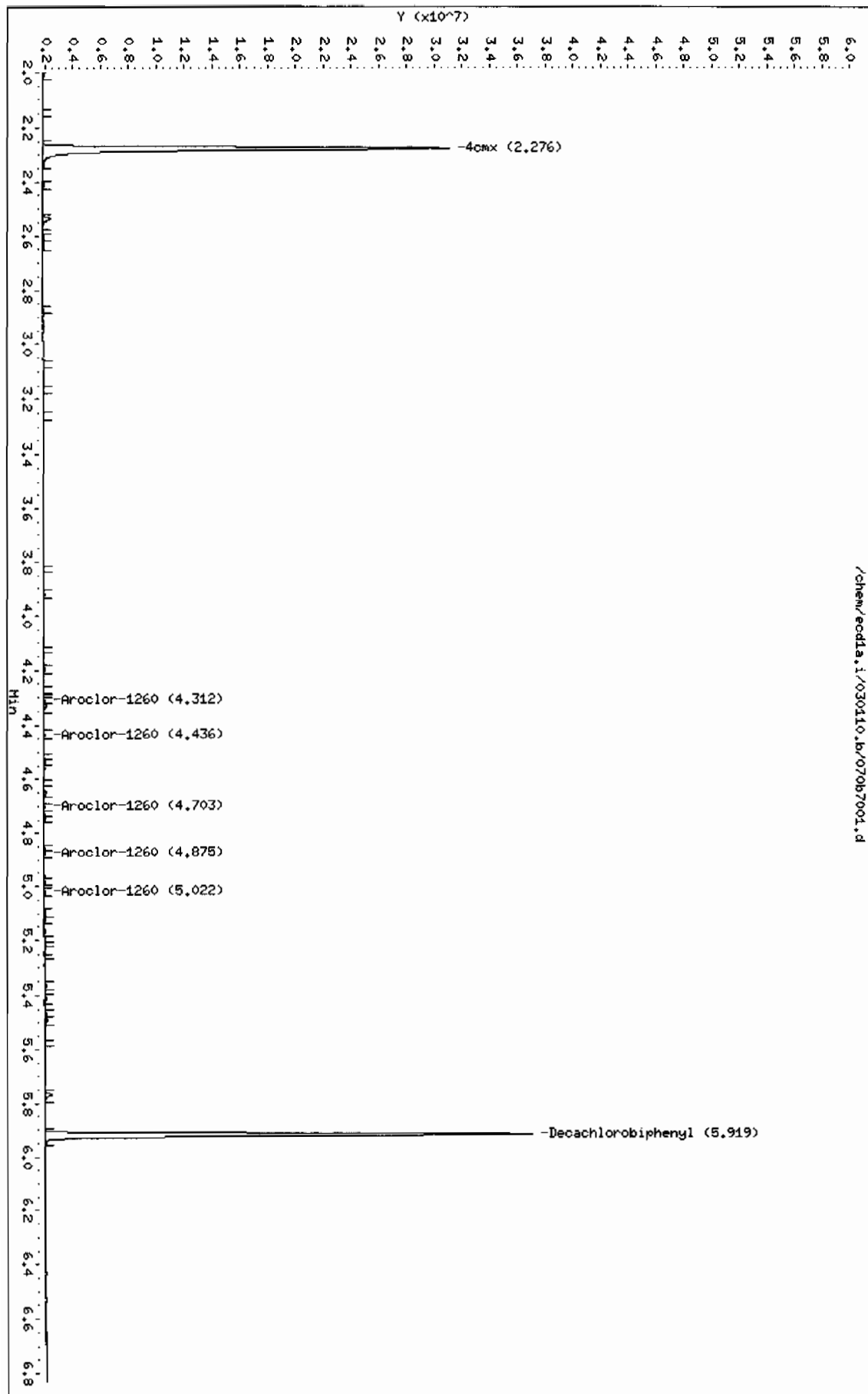
Local Compound Variable

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	2.278	-0.002	26539685	89.2399	3.0 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.919	5.923	-0.004	26453002	125.074	4.2 80.00- 120.00	100.00

Data File: /chem/ecdl1.i/030110.b/070b7001.d
Date : 01-MAR-2010 19:07
Client ID: RE15-10-8267
Sample Info: 12476700311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YS1
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1972
Lab Sample ID: 247767005

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
 2 CLP2

Matrix: R
%Moisture: 1.7
Project: LANL01004
SOP Ref: GI-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8258
Batch ID: 958315
Run Date: 03/01/2010 19:32
Prep Date: 02/27/2010 10:30
Data File: 072f7201.d
 072b7201.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Data File: /chem/ecd1a.i/030110.b/072f7201.d
Report Date: 05-Mar-2010 06:16

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/030110.b/072f7201.d

Lab Smp Id: 247767005

Client Smp ID: RE15-10-8258

Inj Date : 01-MAR-2010 19:32

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247767005|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8258|||

Comment :

Method : /chem/ecd1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 72

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	30.02000	Weight of sample extracted (g)
M	1.69260	% Moisture

Cpnd Variable

Local Compound Variable

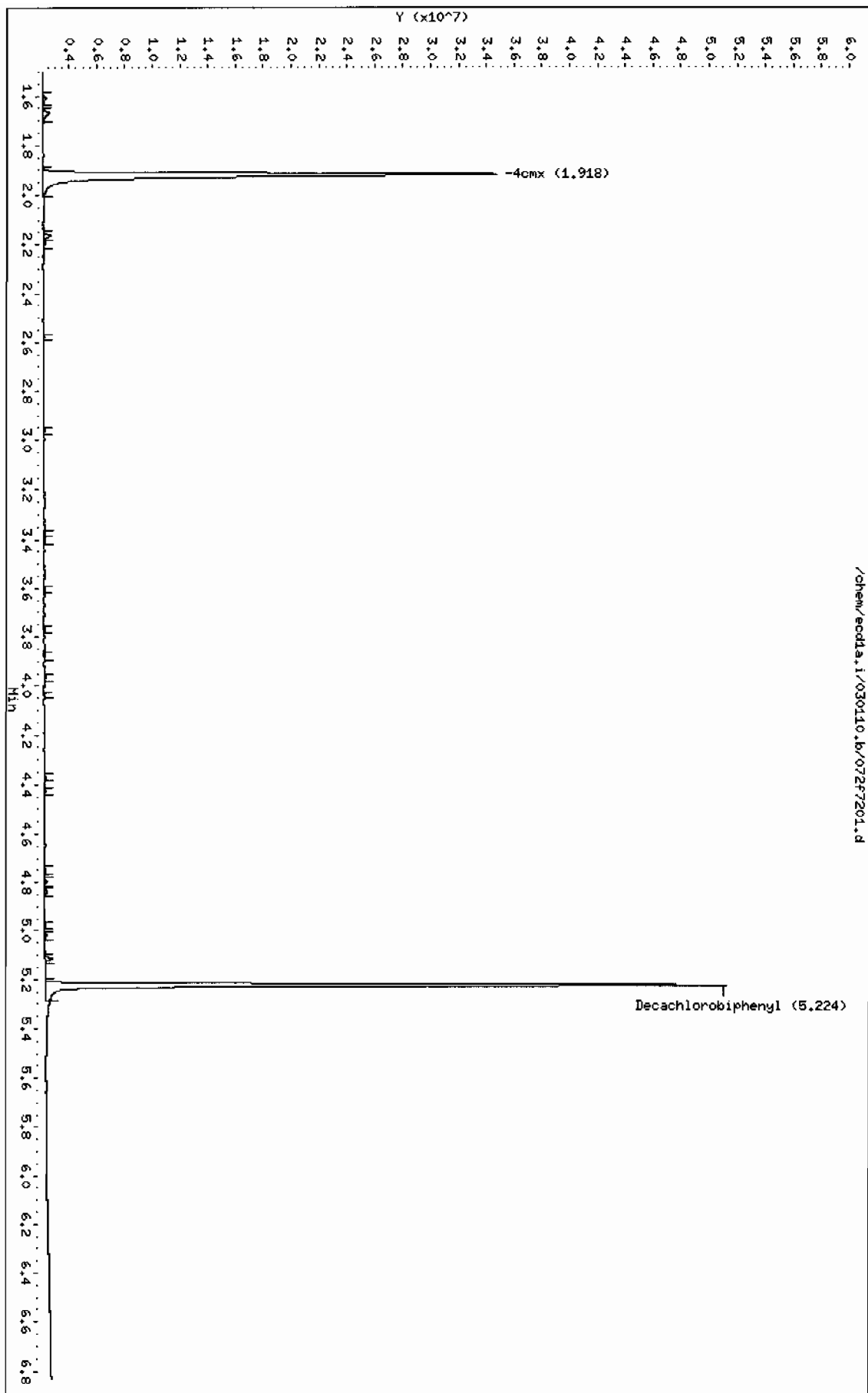
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.918	1.919	-0.001	35668259	82.8268	2.8	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.224	5.227	-0.003	39862131	129.722	4.4	80.00- 120.00	100.00

Data File: /chem/ecdda.i/030110.b/072f7201.d
Date: 01-MAR-2010 19:32
Client ID: RE15-10-8258
Sample Info: 124767005111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: VSI
Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/030110.b/072b7201.d
 Report Date: 05-Mar-2010 18:27

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/072b7201.d

Lab Smp Id: 247767005

Client Smp ID: RE15-10-8258

Inj Date : 01-MAR-2010 19:32

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |247767005|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8258|

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 72

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.sub

Target Version: 3.50

Sample Matrix: Soil

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	30.02000	Weight of sample extracted (g)
M	888800.00000	% Moisture

Cpnd Variable

Local Compound Variable

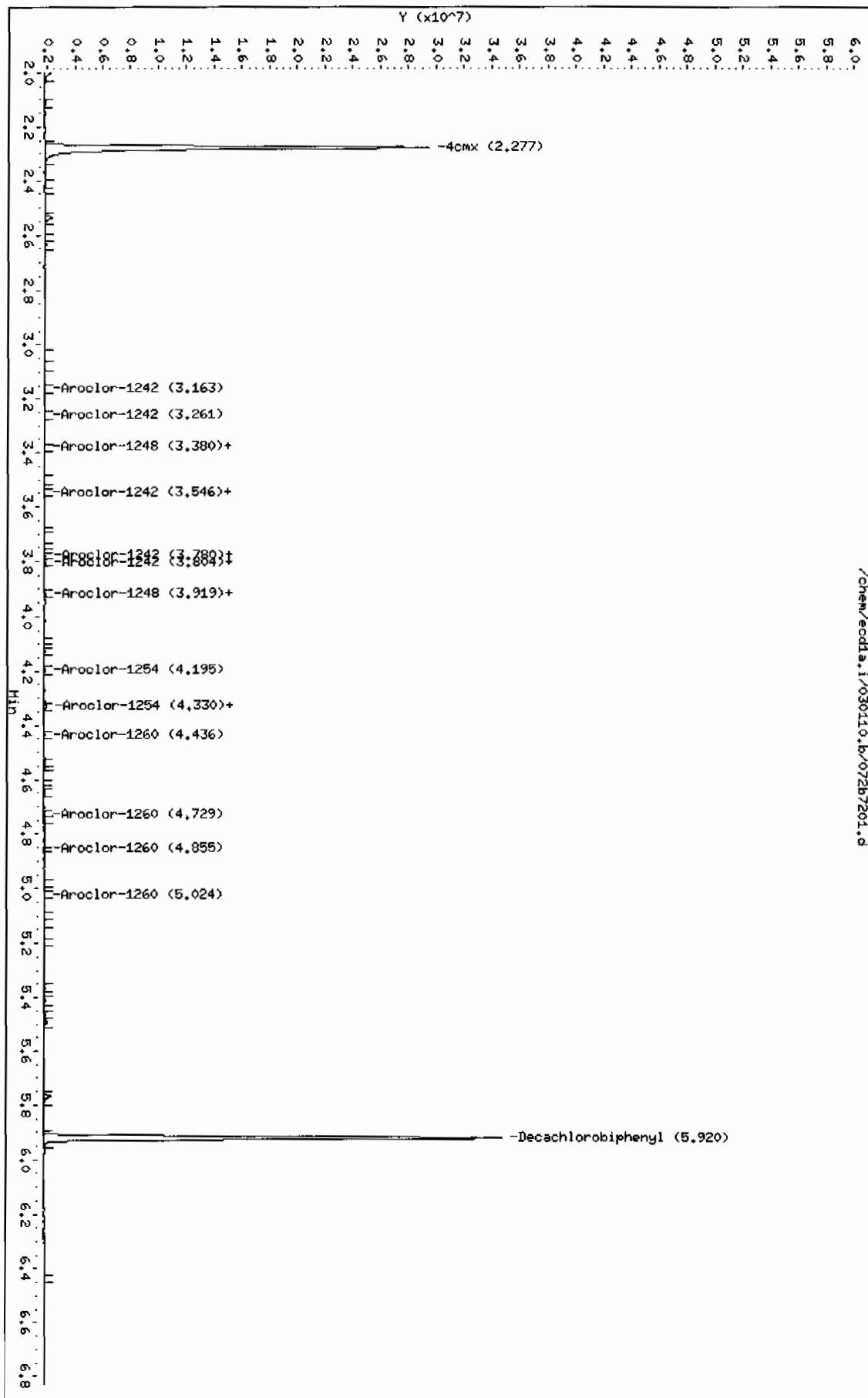
CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
2.277	2.278	-0.001	24853335	83.5696	83.6 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.920	5.923	-0.003	25147365	118.901	119 80.00- 120.00	100.00

Data File: /chem/eod1a.i/030110.b/072b7201.d
Date: 01-MAR-2010 19:32
Client ID: REL5-10-8258
Sample Info: 124776700511
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSI
Column diameter: 0.25

/chem/eod1a.i/030110.b/072b7201.d



PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767001

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8259
Batch ID: 958315
Run Date: 03/01/2010 18:41
Prep Date: 02/27/2010 10:30
Data File: 068f6801.d
068b6801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.43	ug/kg	1.14	3.43	1
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	1
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	1
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	1
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	1
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	1
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/068f6801.d

Lab Smp Id: 247767001

Client Smp ID: RE15-10-8259

Inj Date : 01-MAR-2010 18:41

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247767001|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8259|||

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 68

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	2.72480	% 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		
1.918	1.919	-0.001	43357952 100.683	3.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.223	5.227	-0.004	40959497 133.293	4.6	80.00- 120.00	100.00

Data File: /chem/ecdt.a.i/030110.b/068f6801.d

Date: 01-MAR-2010 18:41

Client ID: REL5-10-8259

Sample Info: 124776700111

Volume Injected (uL): 1.0

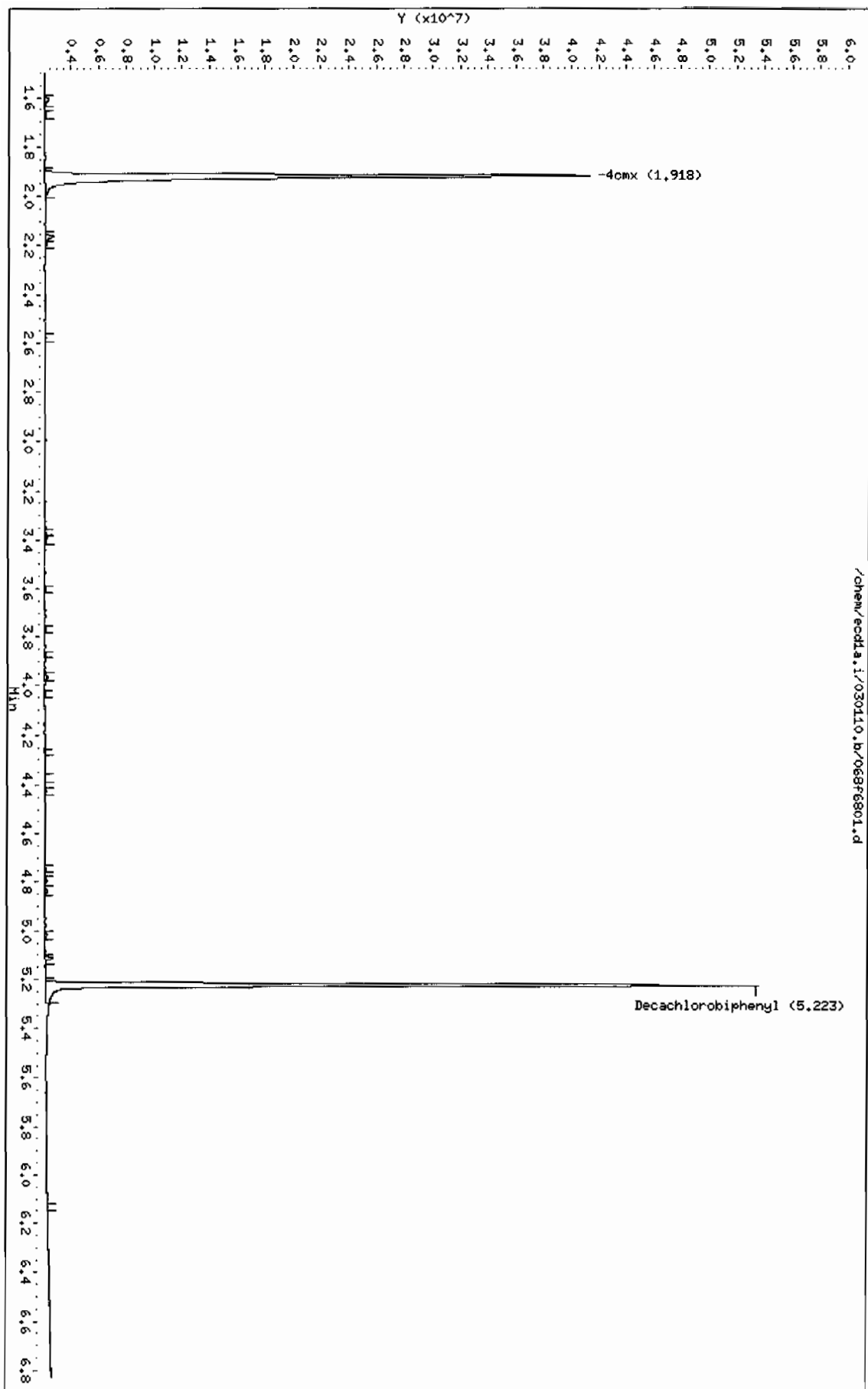
Column phase: CLP1

Instrument: ecdt.a.i

Operator: YS1

Column diameter: 0.25

/chem/ecdt.a.i/030110.b/068f6801.d



Data File: /chem/ecdl1.i/030110.b/068b6801.d
Report Date: 05-Mar-2010 06:15

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/068b6801.d

Lab Smp Id: 247767001 Client Smp ID: RE15-10-8259

Inj Date : 01-MAR-2010 18:41

Operator : YS1 Inst ID: ecd1a.i

Smp Info : |247767001|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8259|

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d

Als bottle: 68

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	2.72480	% Moisture

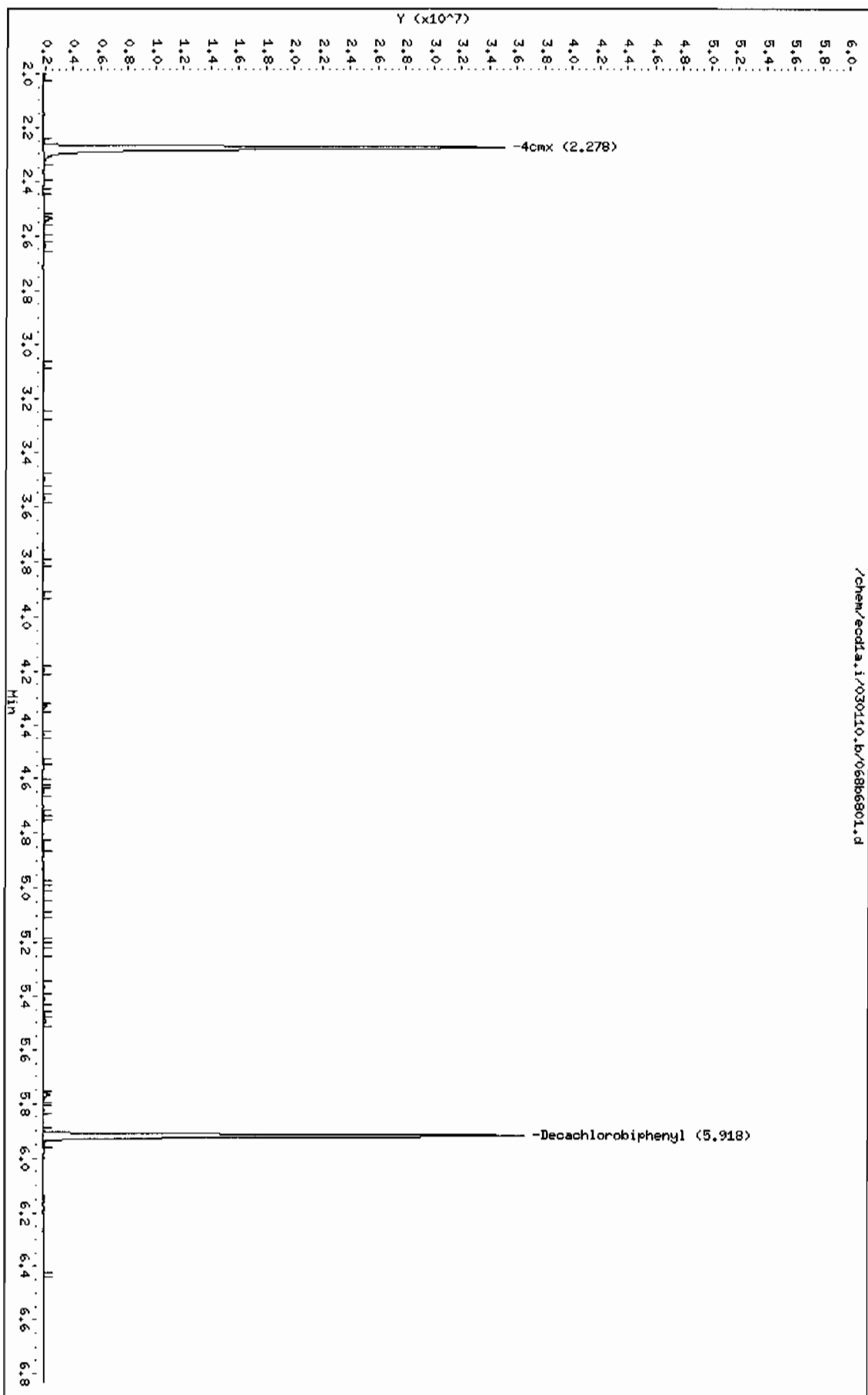
Cpnd Variable Local Compound Variable

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	2.278	0.000	29974094 100.788	3.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.918	5.923	-0.005	25653972 121.296	4.2	80.00- 120.00	100.00

Data File: /chem/eod1a.i/030110.b/068b6801.d
Date : 01-MAR-2010 18:41
Client ID: RE15-10-8259
Sample Info: 124776700111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSI
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767004

Client ID: RE15-10-8260
Batch ID: 958315
Run Date: 03/01/2010 19:19
Prep Date: 02/27/2010 10:30
Data File: 071f7101.d
071b7101.d

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.06 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.6
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	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

Data File: /chem/ecdla.i/030110.b/071f7101.d
Report Date: 05-Mar-2010 06:16

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/071f7101.d

Lab Smp Id: 247767004

Client Smp ID: RE15-10-8260

Inj Date : 01-MAR-2010 19:19

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247767004|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8260|||

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 71

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	30.06000	Weight of sample extracted (g)
M	1.55760	% Moisture

Cpnd Variable

Local Compound Variable

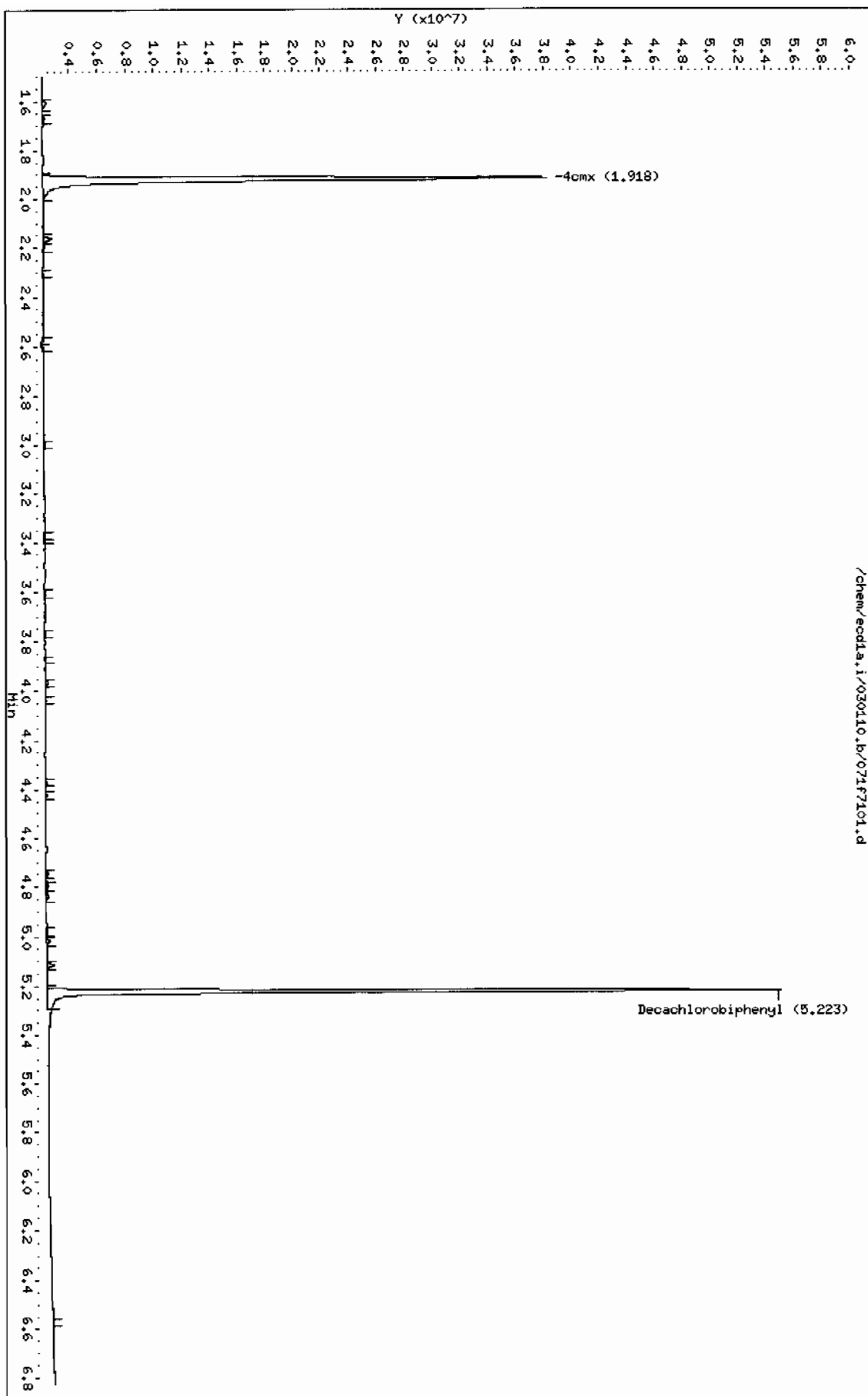
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
\$ 11 4cmx						CAS #: 877-09-8	
1.918	1.919	-0.001	40058203 93.0208	3.1	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
5.223	5.227	-0.004	41638148 135.501	4.6	80.00- 120.00	100.00	

Data File: /chem/ecdda.i/030110.b/0717101.d
Date : 01-MAR-2010 19:13
Client ID: RE15-10-8260
Sample Info: 12476700411
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

Page 1



Data File: /chem/ecdla.i/030110.b/071b7101.d
Report Date: 05-Mar-2010 06:16

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/071b7101.d

Lab Smp Id: 247767004

Client Smp ID: RE15-10-8260

Inj Date : 01-MAR-2010 19:19

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247767004|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8260|1|

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 71

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	30.06000	Weight of sample extracted (g)
M	1.55760	% 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	2.278	-0.001	27820680 93.5473	3.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.919	5.923	-0.004	26449993 125.060	4.2	80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/07167101.d

Date : 01-MAR-2010 19:19

Client ID: RE15-10-8260

Sample Info: 1247767004111

Volume Injected (uL): 1.0

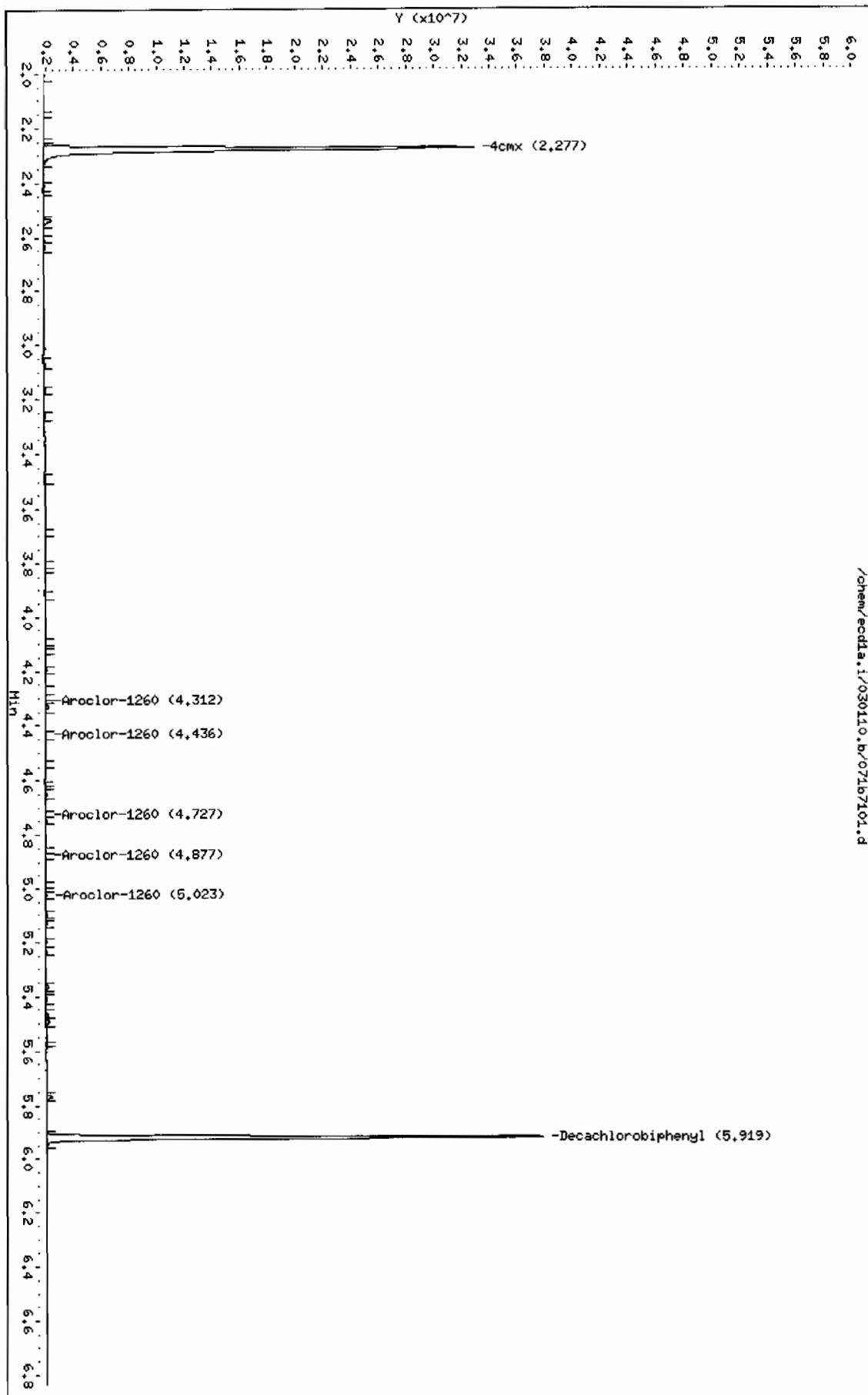
Column phase: CLP2

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl1a.i/030110.b/07167101.d



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767002

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.6
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Data File: /chem/ecdla.i/030110.b/069f6901.d
Report Date: 05-Mar-2010 06:15

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/069f6901.d
Lab Smp Id: 247767002 Client Smp ID: RE15-10-8261
Inj Date : 01-MAR-2010 18:54
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247767002|1|
Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8261|||
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1972.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	30.02000	Weight of sample extracted (g)
M	1.64570	% 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	
1.918	1.919	-0.001	37516817 87.1194	3.0	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
5.223	5.227	-0.004	39799726 129.519	4.4	80.00- 120.00	100.00	

Data File: /chem/eodla.i/030110.b/069f6901.d

Date: 01-MAR-2010 18:54

Client ID: REIS-10-8261

Sample Info: 1247767002111

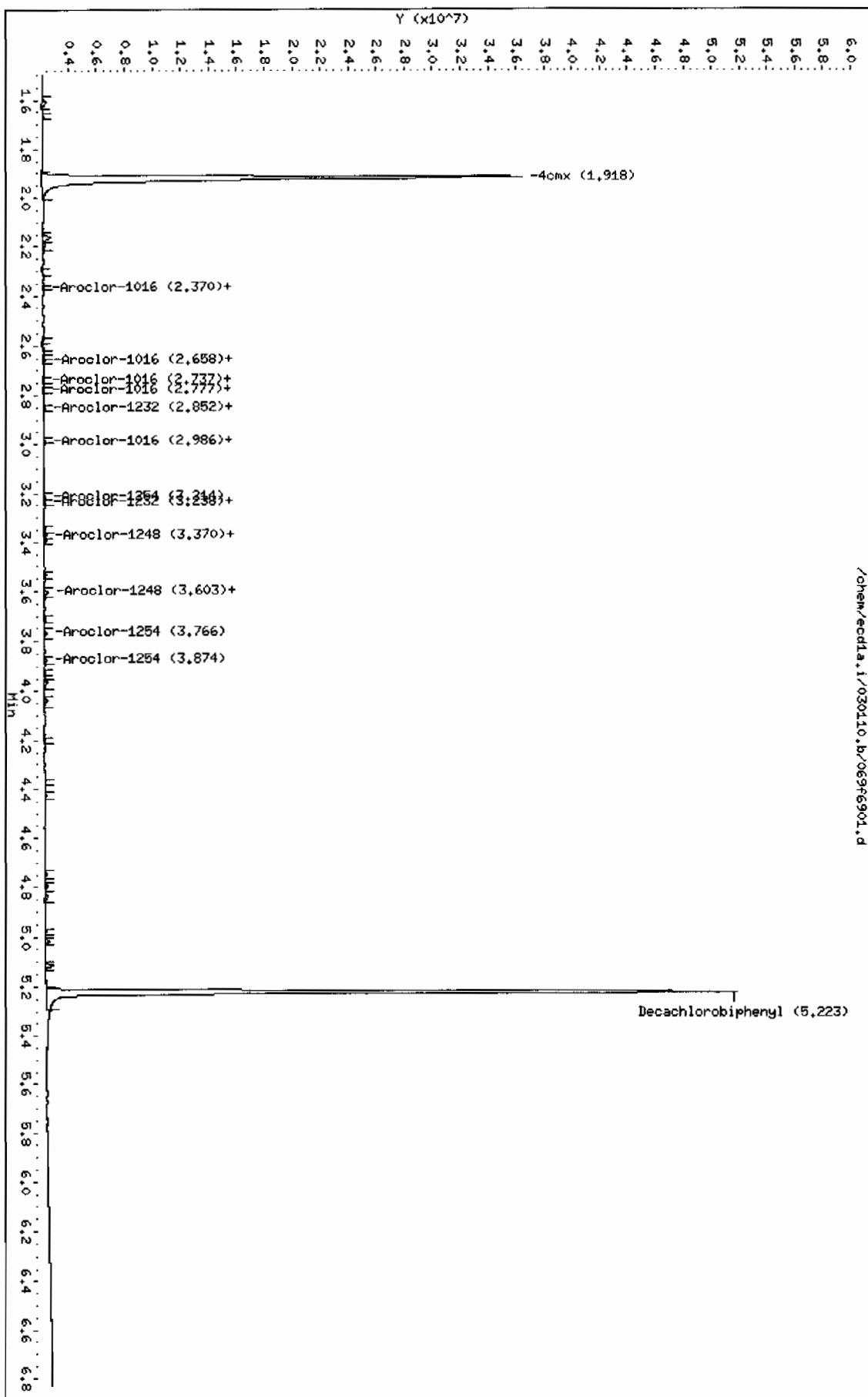
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: eodla.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdl1a.i/030110.b/069b6901.d
Report Date: 05-Mar-2010 06:15

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/069b6901.d

Lab Smp Id: 247767002

Client Smp ID: RE15-10-8261

Inj Date : 01-MAR-2010 18:54

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |247767002|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8261|

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 69

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	30.02000	Weight of sample extracted (g)
M	1.64570	% Moisture

Cpnd Variable

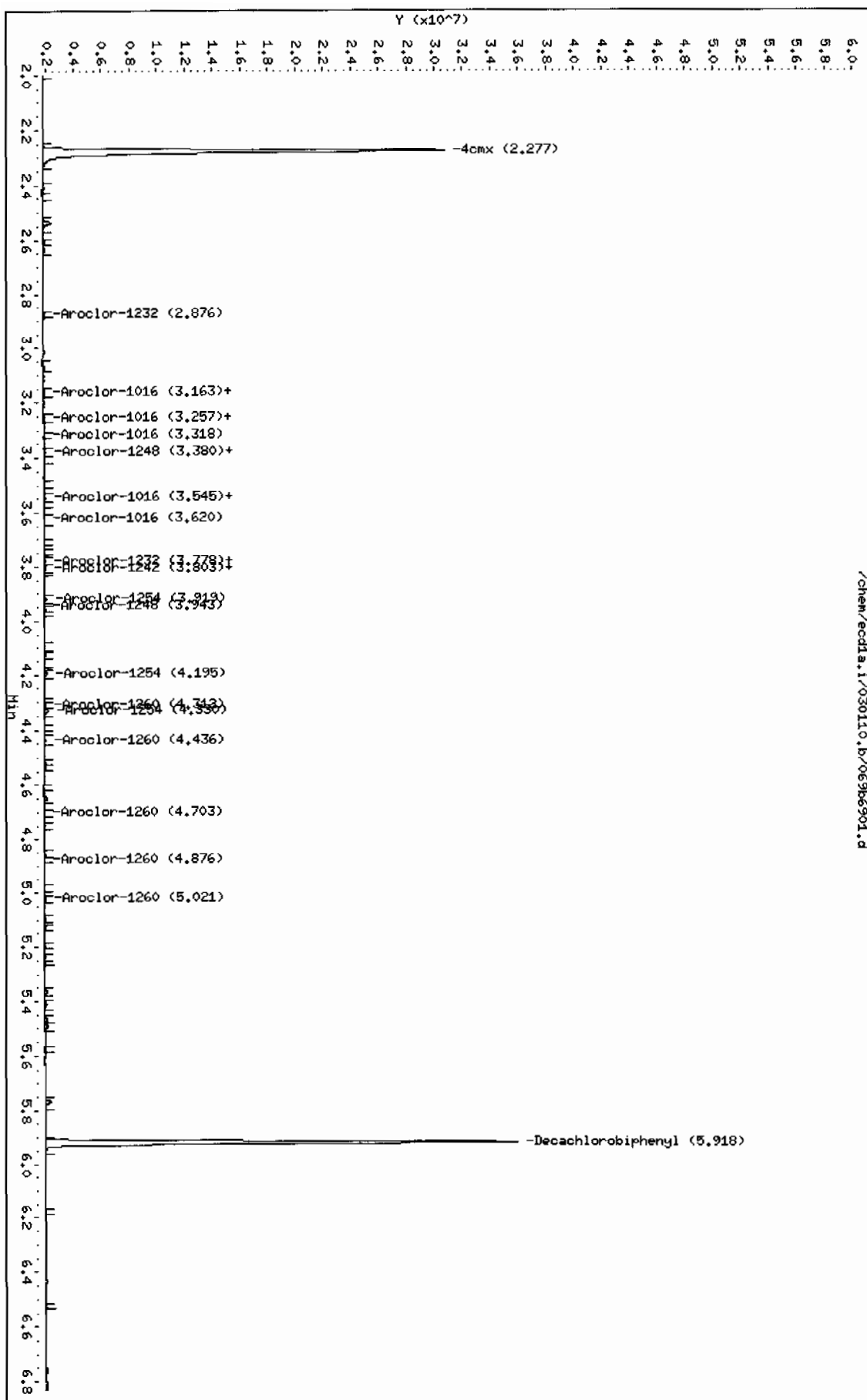
Local Compound Variable

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	2.278	-0.001	25954932	87.2737	3.0 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.918	5.923	-0.005	25285721	119.555	4.0 80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/069b6901.d
 Date : 01-MAR-2010 18:54
 Client ID: RE15-10-8261
 Sample Info: 12476700211
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdl1a.i
 Operator: VSI
 Column diameter: 0.25



PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1972
Lab Sample ID: 247767009

Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECDIA.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.8
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8262
Batch ID: 958315
Run Date: 03/01/2010 20:48
Prep Date: 02/27/2010 10:30
Data File: 078f7801.d
078b7801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Data File: /chem/ecdla.i/030110.b/078f7801.d
Report Date: 05-Mar-2010 06:17

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/078f7801.d
Lab Smp Id: 247767009 Client Smp ID: RE15-10-8262
Inj Date : 01-MAR-2010 20:48
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247767009|1|
Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8262|||
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 78
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1972.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	1.78010	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

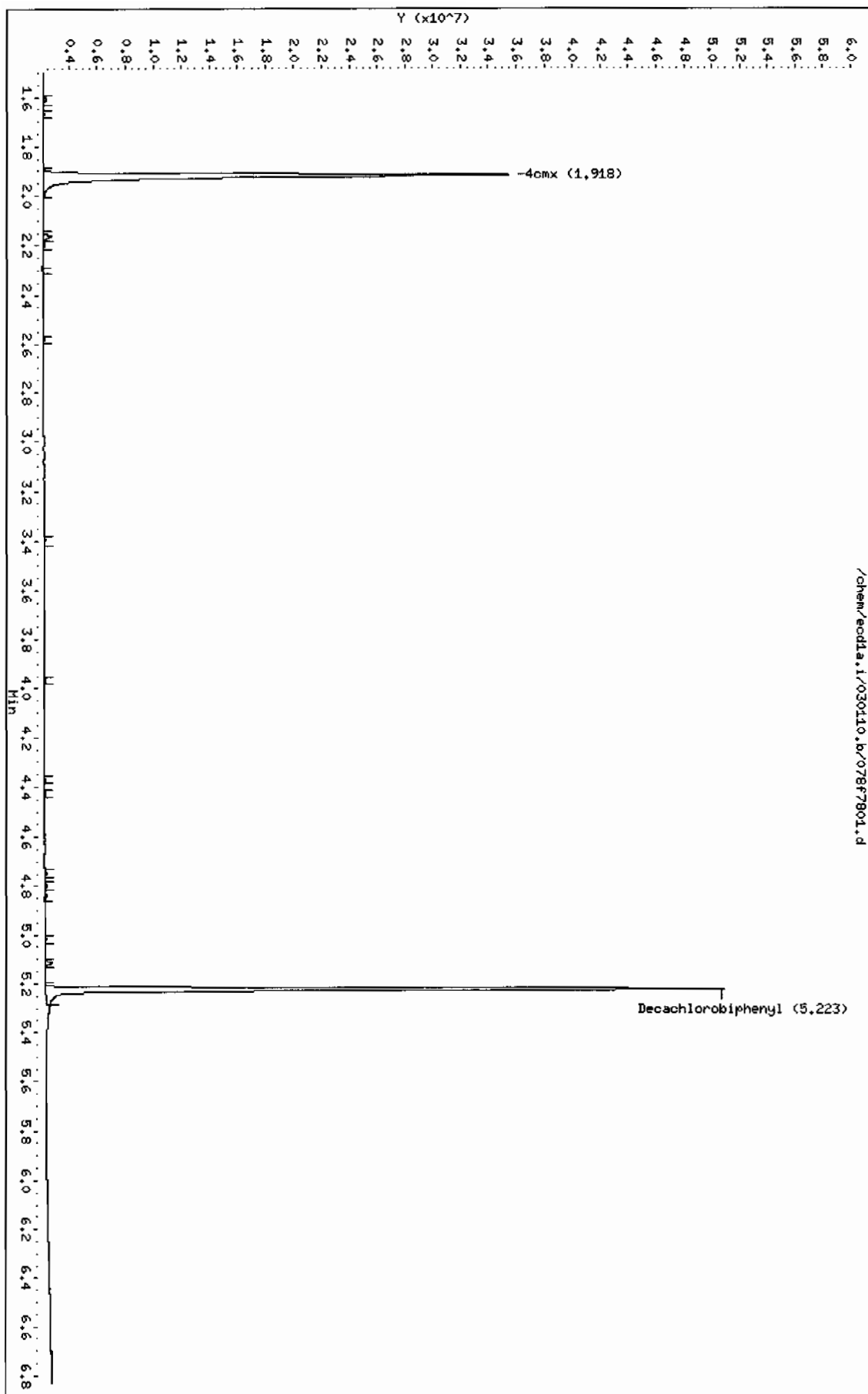
ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
11	1.918	1.919	-0.001	37073302 86.0895	2.9 80.00- 120.00	100.00
CAS #: 877-09-8						
12	5.223	5.227	-0.004	39140213 127.373	4.3 80.00- 120.00	100.00
CAS #: 2051-24-3						

Data File: /chem/ecdl1.i/030110.b/078f7801.d
Date : 01-MAR-2010 20:48
Client ID: RE15-10-8262
Sample Info: 1247767009111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/030110.b/078b7801.d
Report Date: 05-Mar-2010 06:17

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/078b7801.d

Lab Smp Id: 247767009

Client Smp ID: RE15-10-8262

Inj Date : 01-MAR-2010 20:48

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |247767009|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8262|

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 78

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	1.78010	% Moisture

Cpnd Variable

Local Compound Variable

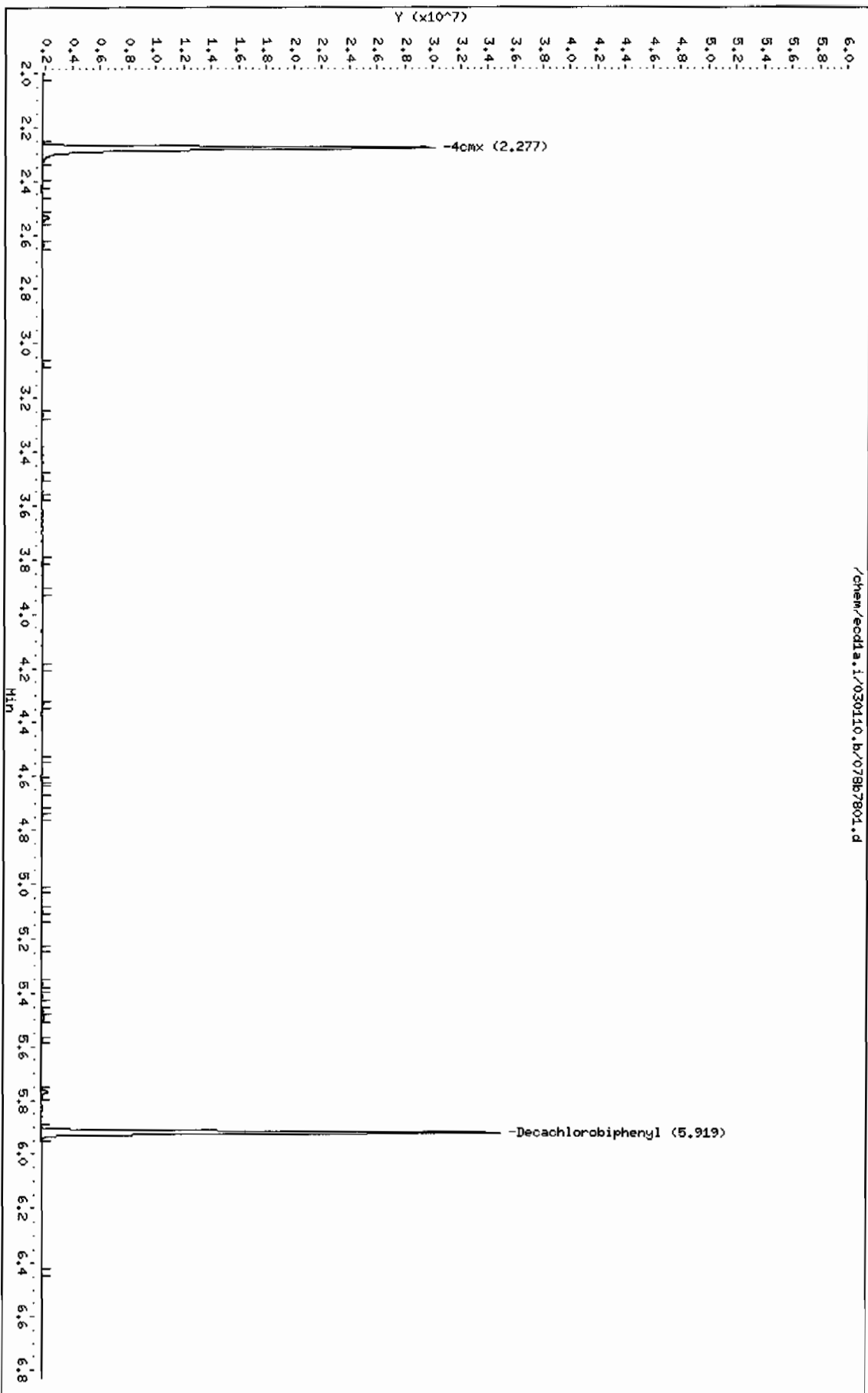
CONCENTRATIONS						
		ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	==	=====	=====	=====	=====	=====
\$ 11 4cmx						
			CAS #: 877-09-8			
2.277	2.278	-0.001	25778552 86.6806	2.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl						
			CAS #: 2051-24-3			
5.919	5.923	-0.004	24826627 117.385	4.0	80.00- 120.00	100.00

Data File: /chem/ecdl1.i/030110.b/078b7801.d
Date : 01-MAR-2010 20:48
Client ID: REL5-10-8262
Sample Info: 1247767009111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

Page 1



PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767006Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YSI
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
% Moisture: 1.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOWClient ID: RE15-10-8263
Batch ID: 958315
Run Date: 03/01/2010 19:44
Prep Date: 02/27/2010 10:30
Data File: 073f7301.d
073b7301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

Data File: /chem/ecdla.i/030110.b/073f7301.d
Report Date: 05-Mar-2010 06:16

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/073f7301.d
Lab Smp Id: 247767006 Client Smp ID: RE15-10-8263
Inj Date : 01-MAR-2010 19:44
Operator : YSl Inst ID: ecdla.i
Smp Info : |247767006|1|
Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8263|||
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 73
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1972.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclpl

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	1.85090	% Moisture

Cpnd Variable Local Compound Variable

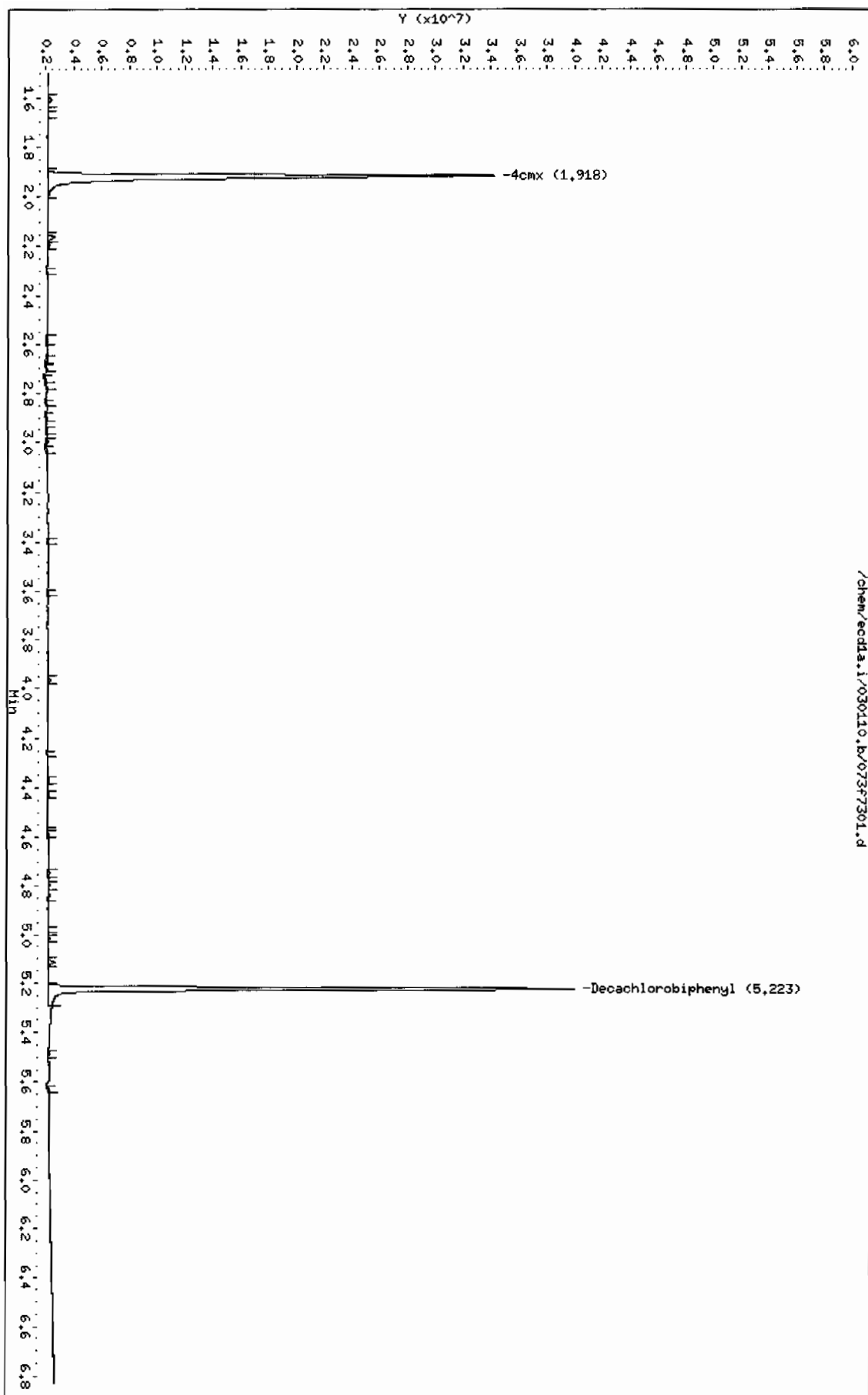
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
11	4	cmx					
1.918	1.919	-0.001	34571071	80.2789	2.7	80.00- 120.00	100.00
12	Decachlorobiphenyl						
5.223	5.227	-0.004	30990533	100.851	3.4	80.00- 120.00	100.00

Data File: /chem/eodla.i/030110.b/07377301.d
Date : 01-MAR-2010 19:44
Client ID: RE15-10-8263
Sample Info: 1247767006111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eodla.i
Operator: YSI
Column diameter: 0.25

Page 1



Data File: /chem/ecd1a.i/030110.b/073b7301.d
Report Date: 05-Mar-2010 06:16

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/030110.b/073b7301.d

Lab Smp Id: 247767006

Client Smp ID: RE15-10-8263

Inj Date : 01-MAR-2010 19:44

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247767006|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8263|

Comment :

Method : /chem/ecd1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 73

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	1.85090	% Moisture

Cpnd Variable

Local Compound Variable

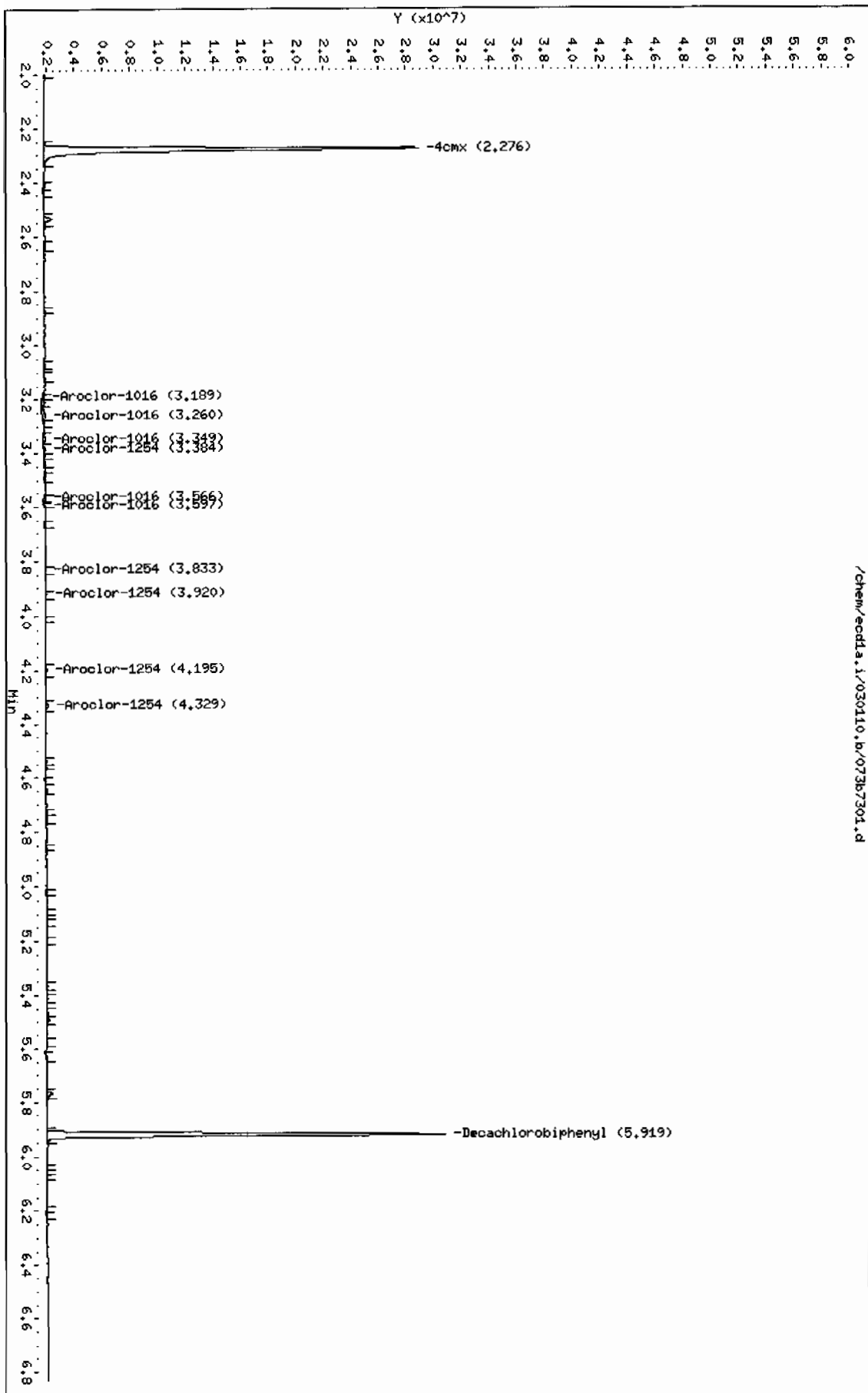
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
2.276	2.278	-0.002	24086007	80.9894	2.8 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.919	5.923	-0.004	21896551	103.531	3.5 80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/073b7301.d
Date : 01-MAR-2010 13:44
Client ID: REL5-10-8263
Sample Info: 1247767006111
Volume Injected (uL): 1.0
Column phase: QLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1a.i/030110.b/073b7301.d



PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number:	10-1972	Date Collected:	02/16/2010 12:00	Matrix:	R
Lab Sample ID:	247767010	Date Received:	02/23/2010 08:50	%Moisture:	1.8
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8265	Method:	SW846 8082	SOP Ref:	GI-OA-E-040
Batch ID:	958315	Inst:	ECD1A.I	Dilution:	1
Run Date:	03/01/2010 21:00	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/27/2010 10:30	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	079f7901.d	Column:	1 CLP1	Level:	LOW
	079b7901.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Data File: /chem/ecdla.i/030110.b/079f7901.d
 Report Date: 05-Mar-2010 06:17

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/079f7901.d
 Lab Smp Id: 247767010 Client Smp ID: RE15-10-8265
 Inj Date : 01-MAR-2010 21:00
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |247767010|1|
 Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8265|||
 Comment :
 Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 79
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1972.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	30.03000	Weight of sample extracted (g)
M	1.79540	% Moisture

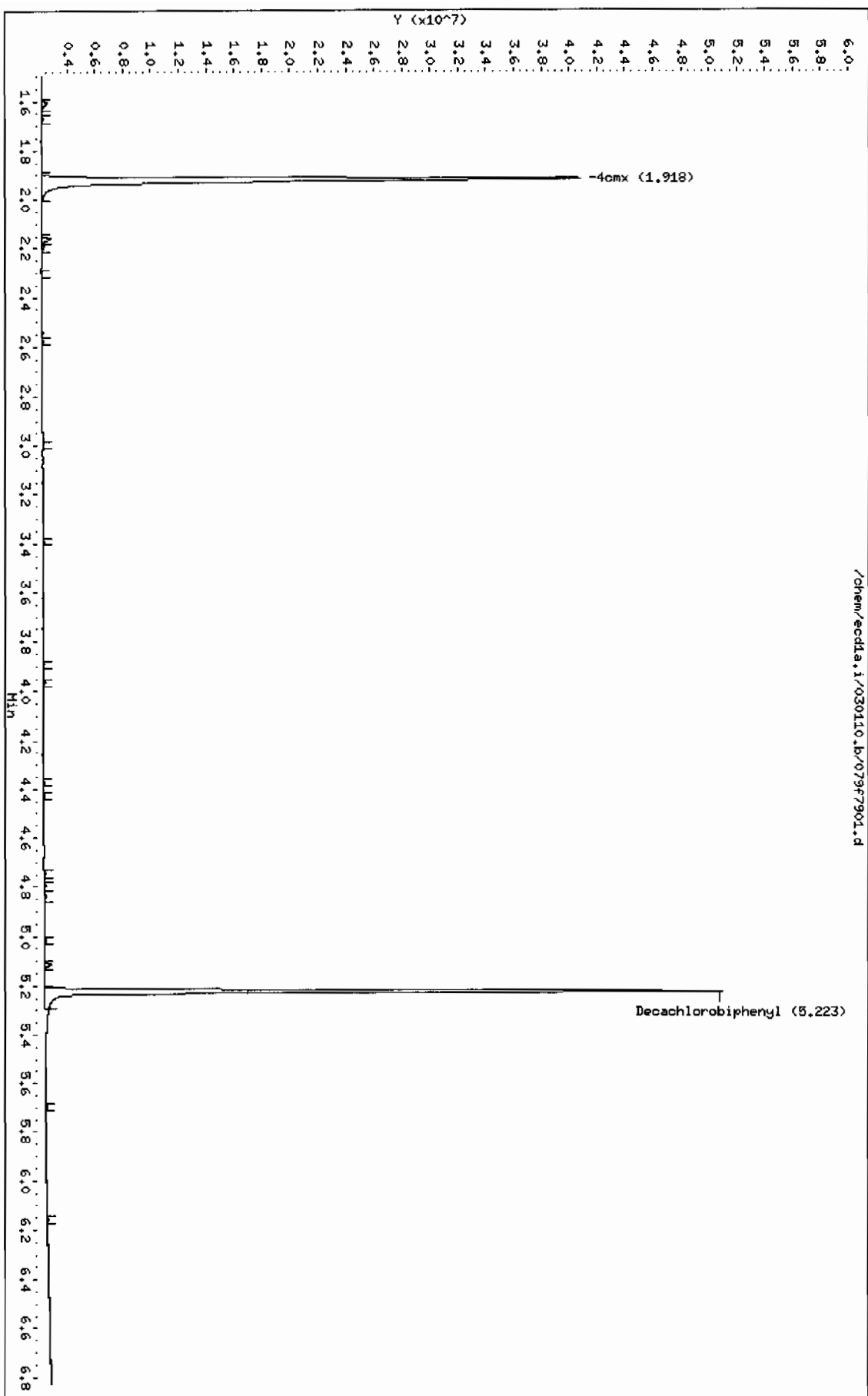
Cpnd Variable Local Compound Variable

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	1.919	-0.001	42345485	98.3322	3.3	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.223	5.227	-0.004	39038356	127.041	4.3	80.00- 120.00	100.00	

Data File: /chem/ecdda.i/030110.b/079f7901.d
Date : 01-MAR-2010 21:00
Client ID: RE15-10-8265
Sample Info: 124776701011
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030110.b/079b7901.d
Report Date: 05-Mar-2010 06:17

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/030110.b/079b7901.d
Lab Smp Id: 247767010 Client Smp ID: RE15-10-8265
Inj Date : 01-MAR-2010 21:00
Operator : YSl Inst ID: ecdl1a.i
Smp Info : |247767010|1|
Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8265|||
Comment :
Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 79
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1972.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	30.03000	Weight of sample extracted (g)
M	1.79540	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====

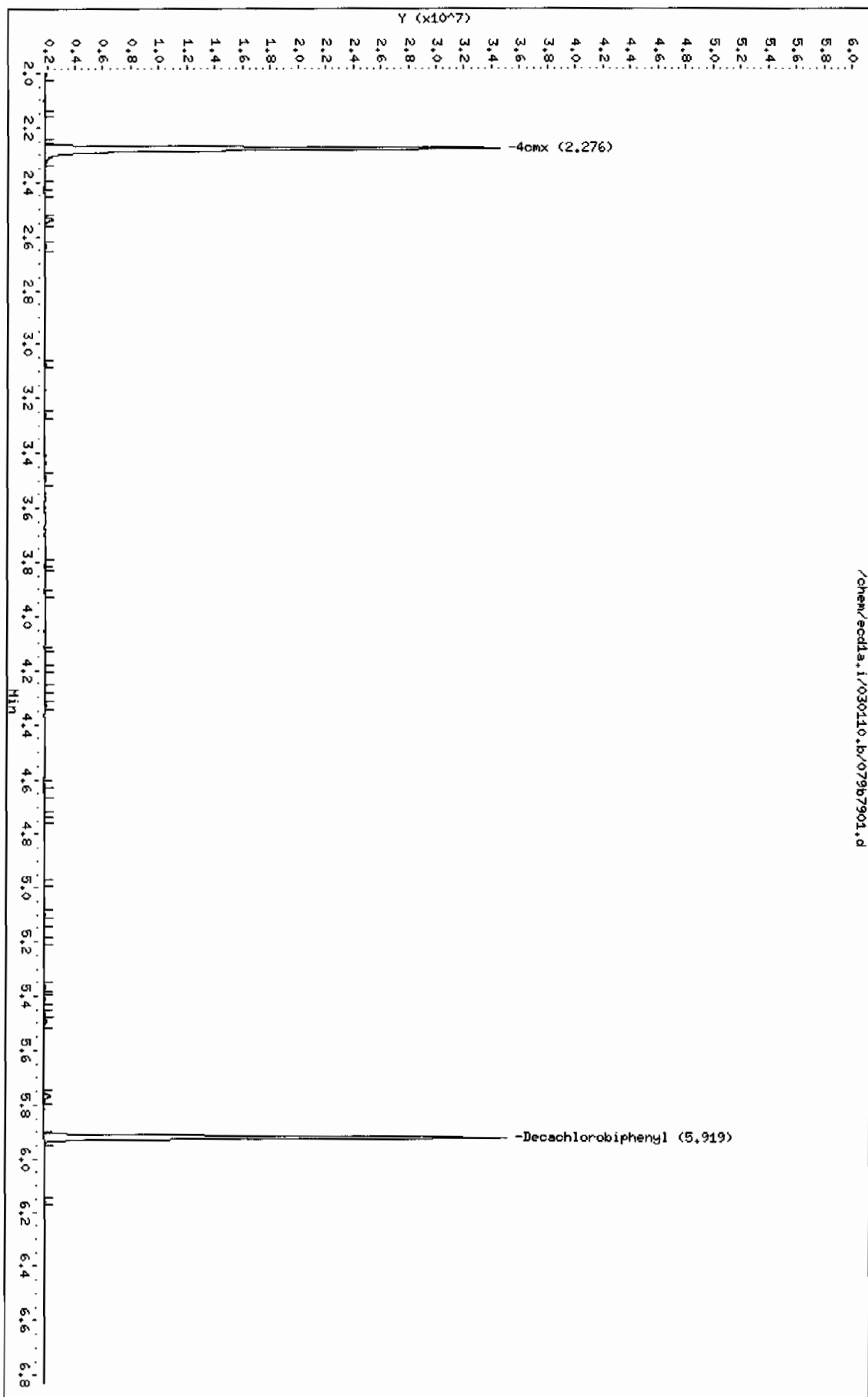
\$ 11 4cmx				CAS #: 877-09-8		
2.276	2.278	-0.002	29390603 98.8262	3.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.919	5.923	-0.004	24710604 116.836	4.0	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030110.b/079b7901.d
Date : 01-MAR-2010 21:00
Client ID: REL5-10-8265
Sample Info: 124776701011
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

Page 1



PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1972
Lab Sample ID: 247767011Date Collected: 02/16/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 1.9
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Data File: /chem/ecdla.i/030110.b/080f8001.d
Report Date: 05-Mar-2010 06:18

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/080f8001.d

Lab Smp Id: 247767011 Client Smp ID: RE15-10-8269

Inj Date : 01-MAR-2010 21:13

Operator : YS1 Inst ID: ecdla.i

Smp Info : |247767011|1|

Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8269|||

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d

Als bottle: 80

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	30.07000	Weight of sample extracted (g)
M	1.85550	% Moisture

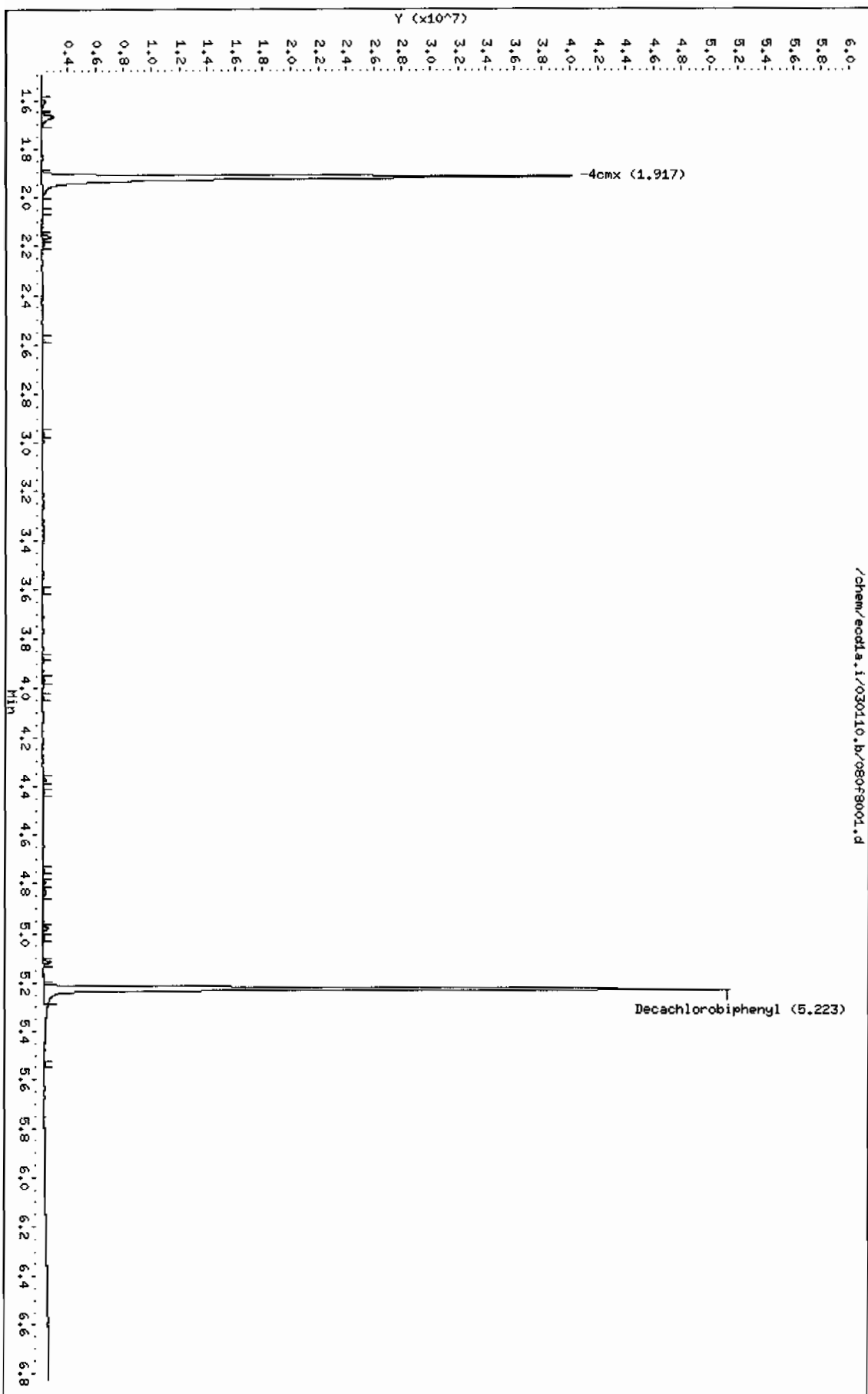
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
1.917	1.919	-0.002	41027729	95.2722	3.2 80.00- 120.00	100.00
CAS #: 2051-24-3						
5.223	5.227	-0.004	38533335	125.398	4.2 80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030110.b/080f8001.d
Date: 01-MAR-2010 21:13
Client ID: RE15-10-8269
Sample Info: 124776701111
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/080b8001.d
 Lab Smp Id: 247767011 Client Smp ID: RE15-10-8269
 Inj Date : 01-MAR-2010 21:13
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |247767011|1|
 Misc Info : |ECD82P_1S|958315|SVA|LANL|SOIL|RE15-10-8269|||
 Comment :
 Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 80
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1972.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	30.07000	Weight of sample extracted (g)
M	1.85550	% Moisture

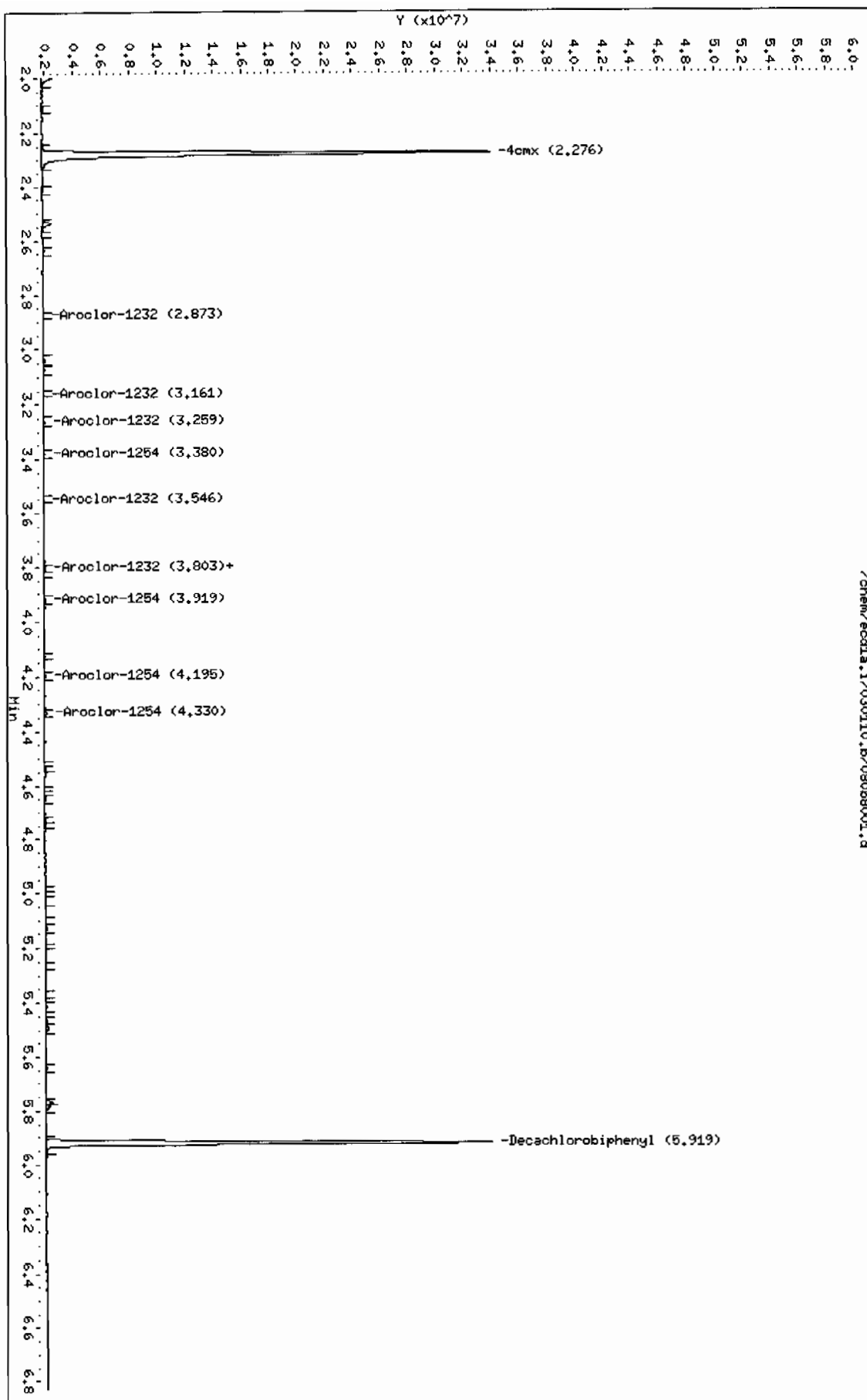
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx						
2.276	2.278	-0.002	28547988 95.9929	3.2	80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl						
5.919	5.923	-0.004	24420883 115.466	3.9	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030110.b/0808001.d
 Date : 01-MAR-2010 21:13
 Client ID: RE15-10-8269
 Sample Info: 124776701111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdl.a.i
 Operator: VSI
 Column diameter: 0.25

/chem/ecdl.a.i/030110.b/0808001.d



STANDARDS DATA

Report Date: 02-Mar-2010 09:17

Calibration History

Method : /chem/ecdla.i/030110.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/ecdla.i/022210.b/032f3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdla.i/022210.b/026f2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdla.i/022210.b/020f2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdla.i/022210.b/014f1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdla.i/022210.b/008f0801.d
Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdla.i/022210.b/033f3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdla.i/022210.b/027f2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdla.i/022210.b/021f2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdla.i/022210.b/015f1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdla.i/022210.b/009f0901.d
Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdla.i/022210.b/034f3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdla.i/022210.b/028f2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdla.i/022210.b/022f2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdla.i/022210.b/016f1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdla.i/022210.b/010f1001.d
Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdla.i/022210.b/035f3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdla.i/022210.b/030f3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdla.i/022210.b/023f2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdla.i/022210.b/017f1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdla.i/022210.b/011f1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdla.i/022210.b/007f0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdla.i/022210.b/006f0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdla.i/022210.b/005f0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdla.i/022210.b/004f0401.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdla.i/022210.b/036f3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdla.i/022210.b/029f2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdla.i/022210.b/024f2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdla.i/022210.b/018f1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdla.i/022210.b/012f1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 23:32	AR1660	/chem/ecd1a.i/030110.b/091f9101.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 21:26	AR1660	/chem/ecd1a.i/030110.b/081f8101.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 20:22	AR1660	/chem/ecd1a.i/030110.b/076f7601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 17:53	AR1660	/chem/ecd1a.i/030110.b/064f6401.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 15:59	AR1660	/chem/ecd1a.i/030110.b/055f5501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 14:35	AR1660	/chem/ecd1a.i/030110.b/048f4801.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 12:12	AR1660	/chem/ecd1a.i/030110.b/036f3601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:48	AR1660	/chem/ecd1a.i/030110.b/029f2901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 08:25	AR1660	/chem/ecd1a.i/030110.b/017f1701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 07:10	AR1262	/chem/ecd1a.i/030110.b/010f1001.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:59	AR1221	/chem/ecd1a.i/030110.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:49	AR1232	/chem/ecd1a.i/030110.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:38	AR1268	/chem/ecd1a.i/030110.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:28	AR1660	/chem/ecd1a.i/030110.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:17	AR1248	/chem/ecd1a.i/030110.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:07	AR1242	/chem/ecd1a.i/030110.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 05:56	AR1254	/chem/ecd1a.i/030110.b/003f0301.d

| Ccal Level: 4 , Ccal Amount: 1000

+=====+
|01-MAR-2010 05:46 |AR1660 |/chem/ecdl1a.i/030110.b/002f0201.d|
+-----+-----+

Report Date: 02-Mar-2010 09:16

Calibration History

Method : /chem/ecdla.i/030110.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/ecdla.i/022210.b/032b3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdla.i/022210.b/026b2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdla.i/022210.b/020b2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdla.i/022210.b/014b1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdla.i/022210.b/008b0801.d

Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdla.i/022210.b/033b3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdla.i/022210.b/027b2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdla.i/022210.b/021b2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdla.i/022210.b/015b1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdla.i/022210.b/009b0901.d

Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdla.i/022210.b/034b3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdla.i/022210.b/028b2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdla.i/022210.b/022b2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdla.i/022210.b/016b1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdla.i/022210.b/010b1001.d

Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdla.i/022210.b/035b3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdla.i/022210.b/030b3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdla.i/022210.b/023b2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdla.i/022210.b/017b1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdla.i/022210.b/011b1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdla.i/022210.b/007b0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdla.i/022210.b/006b0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdla.i/022210.b/005b0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdla.i/022210.b/004b0401.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdla.i/022210.b/036b3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdla.i/022210.b/029b2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdla.i/022210.b/024b2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdla.i/022210.b/018b1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdla.i/022210.b/012b1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 21:26	AR1660	/chem/ecdla.i/030110.b/081b8101.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 20:22	AR1660	/chem/ecdla.i/030110.b/076b7601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 17:53	AR1660	/chem/ecdla.i/030110.b/064b6401.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 23:32	AR1660	/chem/ecdla.i/030110.b/091b9101.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 15:59	AR1660	/chem/ecdla.i/030110.b/055b5501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 14:35	AR1660	/chem/ecdla.i/030110.b/048b4801.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 12:12	AR1660	/chem/ecdla.i/030110.b/036b3601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:48	AR1660	/chem/ecdla.i/030110.b/029b2901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:28	AR1660	/chem/ecdla.i/030110.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 08:25	AR1660	/chem/ecdla.i/030110.b/017b1701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 07:10	AR1262	/chem/ecdla.i/030110.b/010b1001.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:59	AR1221	/chem/ecdla.i/030110.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:49	AR1232	/chem/ecdla.i/030110.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:38	AR1268	/chem/ecdla.i/030110.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:17	AR1248	/chem/ecdla.i/030110.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 06:07	AR1242	/chem/ecdla.i/030110.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 05:56	AR1254	/chem/ecdla.i/030110.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 05:46	AR1660	/chem/ecdla.i/030110.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 02-Mar-2010 06:55 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	2.373	2.343-2.403	1.538e+04
	2.659	2.629-2.689	1.824e+04
	2.740	2.710-2.770	1.207e+04
	2.778	2.748-2.808	7.096e+03
	2.988	2.958-3.018	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
	2.123	2.093-2.153	2.431e+03
	2.149	2.119-2.179	1.042e+04
3 Aroclor-1232	2.372	2.342-2.402	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
	2.372	2.342-2.402	1.256e+04
	2.659	2.629-2.689	1.461e+04
	2.777	2.747-2.807	5.629e+03
	2.988	2.958-3.018	7.310e+03
	3.241	3.211-3.271	6.183e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1.i/030110.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
	3.876	3.846-3.906	1.428e+04
7 Aroclor-1260	3.714	3.684-3.744	1.707e+04
	3.877	3.847-3.907	2.364e+04
	4.039	4.009-4.069	2.497e+04
	4.107	4.077-4.137	1.441e+04
	4.250	4.220-4.280	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	4.614	4.584-4.644	4.848e+04
	4.636	4.606-4.666	5.448e+04
	4.749	4.719-4.779	3.862e+04
	4.952	4.922-4.982	1.635e+04
	5.117	5.087-5.147	1.121e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.919	1.889-1.949	4.306e+05
\$ 12 Decachlorobiphenyl	5.227	5.197-5.257	3.073e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 02-Mar-2010 06:55 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	3.174	3.144-3.204	1.279e+04
	3.257	3.227-3.287	8.918e+03
	3.320	3.290-3.350	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	2.875	2.845-2.905	4.920e+03
	3.174	3.144-3.204	5.252e+03
	3.256	3.226-3.286	3.768e+03
	3.547	3.517-3.577	2.699e+03
4 Aroclor-1242	3.780	3.750-3.810	2.631e+03
	3.174	3.144-3.204	1.035e+04
	3.256	3.226-3.286	7.279e+03
	3.547	3.517-3.577	5.768e+03
	3.780	3.750-3.810	5.788e+03
	3.808	3.778-3.838	6.641e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030110.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	3.382	3.352-3.412	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
	4.331	4.301-4.361	1.198e+04
7 Aroclor-1260	4.314	4.284-4.344	1.321e+04
	4.439	4.409-4.469	1.557e+04
	4.704	4.674-4.734	1.184e+04
	4.878	4.848-4.908	1.220e+04
	5.024	4.994-5.054	2.653e+04
8 Aroclor-1262	4.437	4.407-4.467	1.126e+04
	4.703	4.673-4.733	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	5.236	5.206-5.266	3.730e+04
	5.264	5.234-5.294	3.492e+04
	5.413	5.383-5.443	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	2.278	2.248-2.308	2.974e+05
\$ 12 Decachlorobiphenyl	5.923	5.893-5.953	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/030110.b/ECD1-F-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 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/030110.b/ECD1-F-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 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)	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
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/ecdla.i/030110.b/ECD1-B-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/022210.b/032b3201.d
 Level 2: /chem/ecdla.i/022210.b/033b3301.d
 Level 3: /chem/ecdla.i/022210.b/034b3401.d
 Level 4: /chem/ecdla.i/022210.b/035b3501.d
 Level 5: /chem/ecdla.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/ecdla.i/030110.b/ECD1-B-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 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	RRE	% 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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 0628
 Lab File ID: 006F0601 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	13308.318	0.01	-13.5	15.0
(2)	18237.012	16936.020	0.01	-7.1	15.0
(3)	12065.482	11017.623	0.01	-8.7	15.0
(4)	7096.105	6662.826	0.01	-6.1	15.0
(5)	8912.192	8400.395	0.01	-5.7	15.0
Aroclor-1260	17072.421	16777.115	0.01	-1.7	15.0
(2)	23643.449	24986.460	0.01	5.7	15.0
(3)	24971.335	26723.350	0.01	7.0	15.0
(4)	14405.675	15046.298	0.01	4.4	15.0
(5)	14430.527	15540.140	0.01	7.7	15.0
4cmx	430636.91	389096.61	0.01	-9.6	15.0
Decachlorobiphenyl	307289.35	301986.93	0.01	-1.7	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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 0628
 Lab File ID: 006B0601 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	11776.868	0.01	-7.9	15.0
(2)	8917.926	7964.740	0.01	-10.7	15.0
(3)	5406.011	4935.768	0.01	-8.7	15.0
(4)	6915.638	6222.912	0.01	-10.0	15.0
(5)	6425.213	5888.255	0.01	-8.4	15.0
Aroclor-1260	13205.642	12074.141	0.01	-8.6	15.0
(2)	15566.814	14772.970	0.01	-5.1	15.0
(3)	11843.501	11120.482	0.01	-6.1	15.0
(4)	12201.193	11500.807	0.01	-5.7	15.0
(5)	26527.172	25815.917	0.01	-2.7	15.0
4cmx	297396.93	270469.77	0.01	-9.0	15.0
Decachlorobiphenyl	211498.34	190980.67	0.01	-9.7	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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1753
 Lab File ID: 064F6401 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	14001.398	0.01	-9.0	15.0
(2)	18237.012	17873.746	0.01	-2.0	15.0
(3)	12065.482	11318.527	0.01	-6.2	15.0
(4)	7096.105	6806.828	0.01	-4.1	15.0
(5)	8912.192	8633.111	0.01	-3.1	15.0
Aroclor-1260	17072.421	16785.341	0.01	-1.7	15.0
(2)	23643.449	25208.399	0.01	6.6	15.0
(3)	24971.335	26814.029	0.01	7.4	15.0
(4)	14405.675	15193.036	0.01	5.5	15.0
(5)	14430.527	15803.009	0.01	9.5	15.0
4cmx	430636.91	397250.44	0.01	-7.8	15.0
Decachlorobiphenyl	307289.35	303739.56	0.01	-1.2	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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1753
 Lab File ID: 064B6401 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	12181.240	0.01	-4.8	15.0
(2)	8917.926	8065.299	0.01	-9.6	15.0
(3)	5406.011	5047.029	0.01	-6.6	15.0
(4)	6915.638	6578.022	0.01	-4.9	15.0
(5)	6425.213	6091.102	0.01	-5.2	15.0
Aroclor-1260	13205.642	12285.327	0.01	-7.0	15.0
(2)	15566.814	15011.617	0.01	-3.6	15.0
(3)	11843.501	11315.020	0.01	-4.5	15.0
(4)	12201.193	11828.319	0.01	-3.0	15.0
(5)	26527.172	26391.121	0.01	-0.5	15.0
4cmx	297396.93	273094.46	0.01	-8.2	15.0
Decachlorobiphenyl	211498.34	199195.13	0.01	-5.8	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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 2022
 Lab File ID: 076F7601 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	13929.225	0.01	-9.4	15.0
(2)	18237.012	17844.761	0.01	-2.2	15.0
(3)	12065.482	11586.132	0.01	-4.0	15.0
(4)	7096.105	7018.783	0.01	-1.1	15.0
(5)	8912.192	8947.227	0.01	0.4	15.0
Aroclor-1260	17072.421	17572.838	0.01	2.9	15.0
(2)	23643.449	26069.423	0.01	10.3	15.0
(3)	24971.335	27951.790	0.01	11.9	15.0
(4)	14405.675	15749.998	0.01	9.3	15.0
(5)	14430.527	16274.579	0.01	12.8	15.0
4cmx	430636.91	411266.59	0.01	-4.5	15.0
Decachlorobiphenyl	307289.35	319826.77	0.01	4.1	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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 2022
 Lab File ID: 076B7601 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	12456.533	0.01	-2.6	15.0
(2)	8917.926	8271.802	0.01	-7.2	15.0
(3)	5406.011	5151.952	0.01	-4.7	15.0
(4)	6915.638	6716.024	0.01	-2.9	15.0
(5)	6425.213	6308.355	0.01	-1.8	15.0
Aroclor-1260	13205.642	12624.648	0.01	-4.4	15.0
(2)	15566.814	15459.095	0.01	-0.7	15.0
(3)	11843.501	11613.675	0.01	-1.9	15.0
(4)	12201.193	12091.699	0.01	-0.9	15.0
(5)	26527.172	27075.746	0.01	2.1	15.0
4cmx	297396.93	283081.16	0.01	-4.8	15.0
Decachlorobiphenyl	211498.34	204266.95	0.01	-3.4	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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 2126
 Lab File ID: 081F8101 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	14343.863	0.01	-6.8	15.0
(2)	18237.012	18426.261	0.01	1.0	15.0
(3)	12065.482	11892.706	0.01	-1.4	15.0
(4)	7096.105	7209.176	0.01	1.6	15.0
(5)	8912.192	9170.570	0.01	2.9	15.0
Aroclor-1260	17072.421	17636.297	0.01	3.3	15.0
(2)	23643.449	26527.952	0.01	12.2	15.0
(3)	24971.335	28416.025	0.01	13.8	15.0
(4)	14405.675	15984.423	0.01	11.0	15.0
(5)	14430.527	16655.086	0.01	15.4	15.0
4cmx	430636.91	422539.77	0.01	-1.9	15.0
Decachlorobiphenyl	307289.35	328848.95	0.01	7.0	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.: 10-1972
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 2126
 Lab File ID: 081B8101 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	12926.446	0.01	1.1	15.0
(2)	8917.926	8531.111	0.01	-4.3	15.0
(3)	5406.011	5338.654	0.01	-1.2	15.0
(4)	6915.638	6909.358	0.01	-0.1	15.0
(5)	6425.213	6448.837	0.01	0.4	15.0
Aroclor-1260	13205.642	13009.960	0.01	-1.5	15.0
(2)	15566.814	15899.561	0.01	2.1	15.0
(3)	11843.501	11972.939	0.01	1.1	15.0
(4)	12201.193	12457.070	0.01	2.1	15.0
(5)	26527.172	27890.658	0.01	5.1	15.0
4cmx	297396.93	291489.25	0.01	-2.0	15.0
Decachlorobiphenyl	211498.34	210684.18	0.01	-0.4	15.0

FORM VII PEST

Data File: /chem/ecdla.i/030110.b/003f0301.d
Report Date: 01-Mar-2010 11:54

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/003f0301.d

Lab Smp Id: WAR100219-54 Client Smp ID: AR125401

Inj Date : 01-MAR-2010 05:56

Operator : YS1 Inst ID: ecdla.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254				CAS #: 11097-69-1		
3.216	3.216	0.000	12428599 1000.00	1040	80.00- 120.00	100.00
3.371	3.371	0.000	16816364 1000.00	1060	89.40- 129.40	135.30
3.605	3.605	0.000	21942791 1000.00	1120	29.05- 69.05	176.55
3.767	3.767	0.000	16407992 1000.00	1190	9.00- 49.00	132.02
3.876	3.876	0.000	15998942 1000.00	1120	410.81- 450.81	128.73

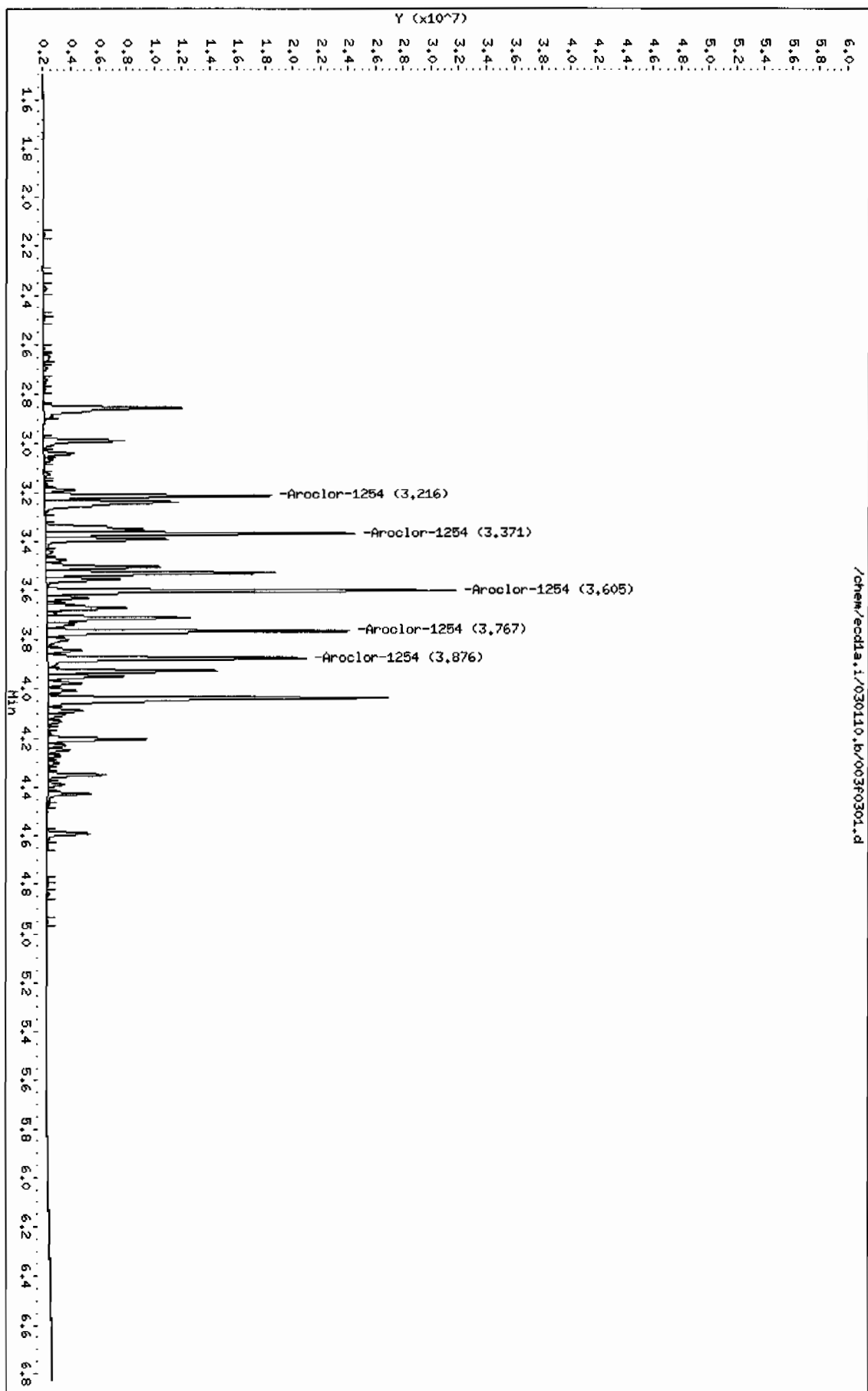
Average of Peak Amounts 1.11e+03

Data File: /chem/ecdl1a.i/030110.b/003f0301.d
Date: 01-MAR-2010 05:56
Client ID: AR125401
Sample Info: 1MAR100219-54

Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1a.i/030110.b/003f0301.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/003b0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 01-MAR-2010 05:56

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254			CAS #: 11097-69-1			
3.382	3.382	0.000	5794257	1000.00	955 80.00- 120.00	100.00
3.804	3.804	0.000	10527751	1000.00	980 161.69- 201.69	181.69
3.920	3.920	0.000	11733937	1000.00	1010 182.51- 222.51	202.51
4.196	4.196	0.000	16479181	1000.00	1040 264.41- 304.41	284.41
4.331	4.331	0.000	12089892	1000.00	1010 188.65- 228.65	208.65

Average of Peak Amounts = 998

Data File: /chem/ecdl.a.i/030110.b/003b0301.d

Date : 01-MAR-2010 05:56

Client ID: AR125401

Sample Info: 11MR100219-54

Page 1

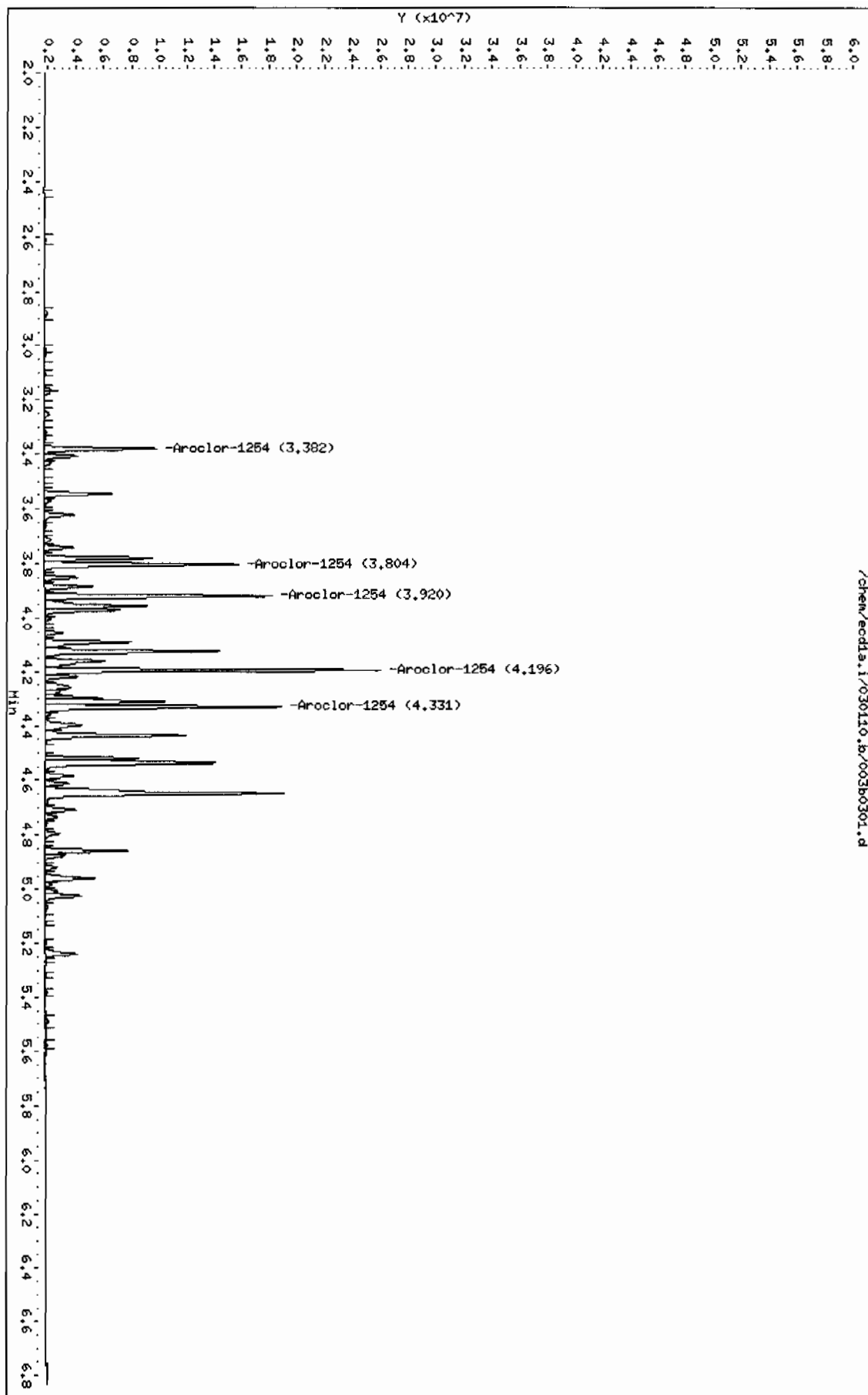
Instrument: ecdl.a.i

Column phase: CLP2

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/030110.b/003b0301.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/004f0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 01-MAR-2010 06:07

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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

2.372	2.372	0.000	11845552	1000.00	943 80.00- 120.00	100.00
2.659	2.659	0.000	14625693	1000.00	1000 105.80- 145.80	123.47
2.777	2.777	0.000	5644185	1000.00	1000 28.50- 68.50	47.65
2.988	2.988	0.000	7389796	1000.00	1010 41.07- 81.07	62.38
3.241	3.241	0.000	7202178	1000.00	1160 2.02- 42.02	60.80

Average of Peak Amounts = 1.02e+03

Data File: /chem/ecdt1a.i/030110.b/0040401.d

Date: 01-MAR-2010 06:07

Client ID: AR124201

Sample Info: 1MAR100219-42

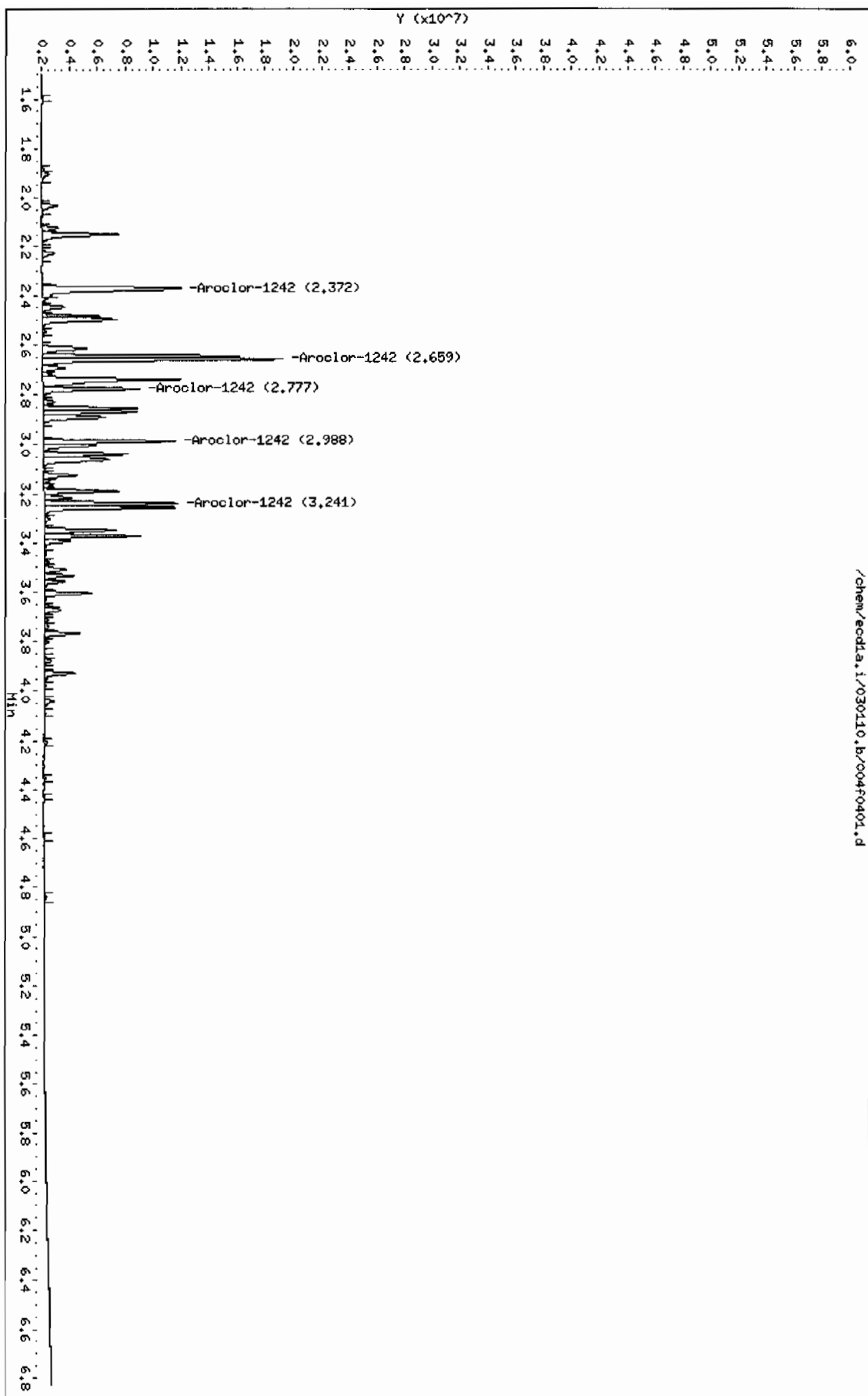
Column phase: CLP1

Instrument: ecdt1a.i

Operator: YSI

Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/004b0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 01-MAR-2010 06:07

Operator : YSl

Inst ID: ecdla.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

3.174	3.174	0.000	10228117	1000.00	988 80.00- 120.00	100.00
3.256	3.256	0.000	6860562	1000.00	942 47.08- 87.08	67.08
3.547	3.547	0.000	5452140	1000.00	945 33.31- 73.31	53.31
3.780	3.780	0.000	5763523	1000.00	996 36.35- 76.35	56.35
3.808	3.808	0.000	6419425	1000.00	966 42.76- 82.76	62.76

Average of Peak Amounts =

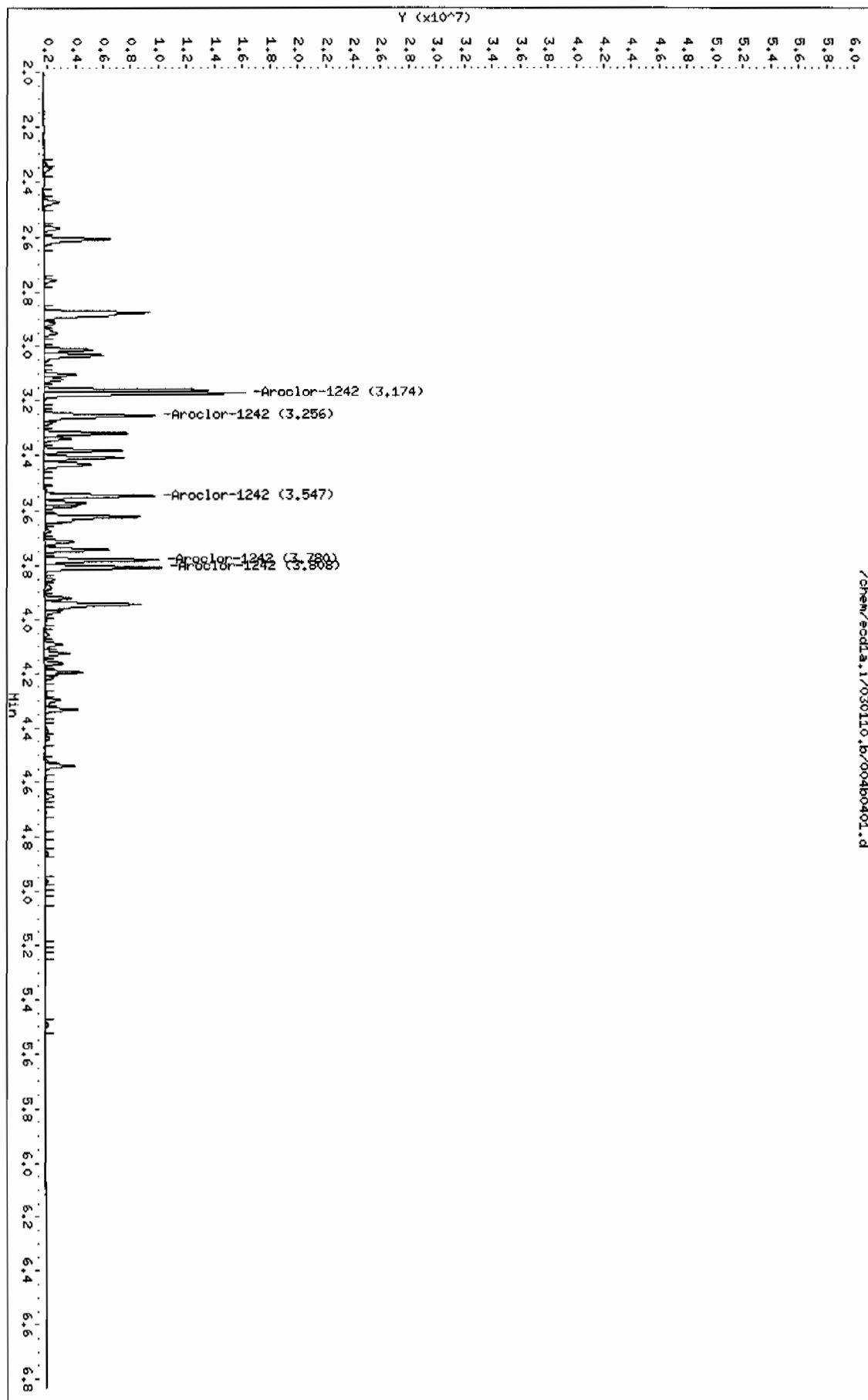
968

Data File: /chem/ecdl1a.i/030110.b/00400401.d
Date : 01-MAR-2010 06:07
Client ID: ARL24201
Sample Info: IMR100219-42

Column phase: CLP2

Instrument: ecdl1a.i
Operator: YS1
Column diameter: 0.25

/chem/ecdl1a.i/030110.b/00400401.d



Data File: /chem/ecdla.i/030110.b/005f0501.d
Report Date: 01-Mar-2010 11:55

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/005f0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 01-MAR-2010 06:17

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

5 Aroclor-1248			CAS #: 12672-29-6			
2.854	2.854	0.000	9749371	1000.00	1050 80.00- 120.00	100.00
2.987	2.987	0.000	12679792	1000.00	1020 124.41- 164.41	130.06
3.241	3.241	0.000	14185001	1000.00	1160 32.08- 72.08	145.50
3.373	3.373	0.000	11371497	1000.00	1090 87.65- 127.65	116.64
3.606	3.606	0.000	7434507	1000.00	1090 28.27- 68.27	76.26

Average of Peak Amounts = 1.08e+03

Data File: /chem/ecod1a.i/030110.b/005f0501.d

Date : 01-MAR-2010 06:17

Client ID: 66124801

Sample Info: 1MAR100223-48

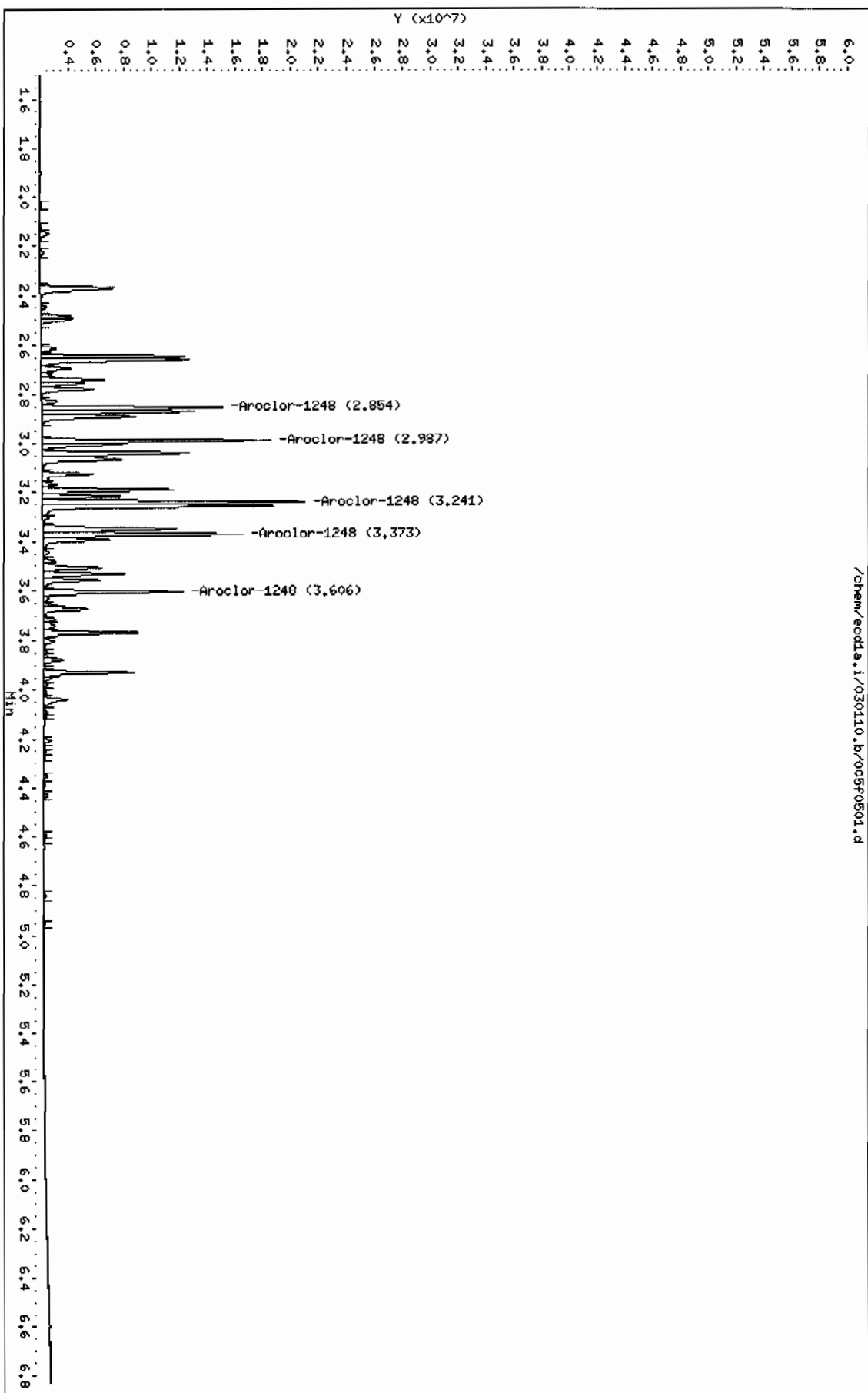
Column phase: CLP1

Instrument: ecod1a.i

Operator: VSI

Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/030110.b/005b0501.d
Report Date: 01-Mar-2010 11:55

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/005b0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 01-MAR-2010 06:17

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

5 Aroclor-1248

CAS #: 12672-29-6

3.382	3.382	0.000	7459436	1000.00	981 80.00- 120.00	100.00
3.547	3.547	0.000	9385175	1000.00	1000 105.82- 145.82	125.82
3.781	3.781	0.000	10904454	1000.00	1020 126.18- 166.18	146.18
3.808	3.808	0.000	12146330	1000.00	1000 142.83- 182.83	162.83
3.945	3.945	0.000	11749045	1000.00	1020 137.51- 177.51	157.51

Average of Peak Amounts = 1.01e+03

Data File: /chem/ecdl1.i/030110.b/00600501.d

Date: 01-MAR-2010 06:17

Client ID: AR124801

Sample Info: 1MAR100223-48

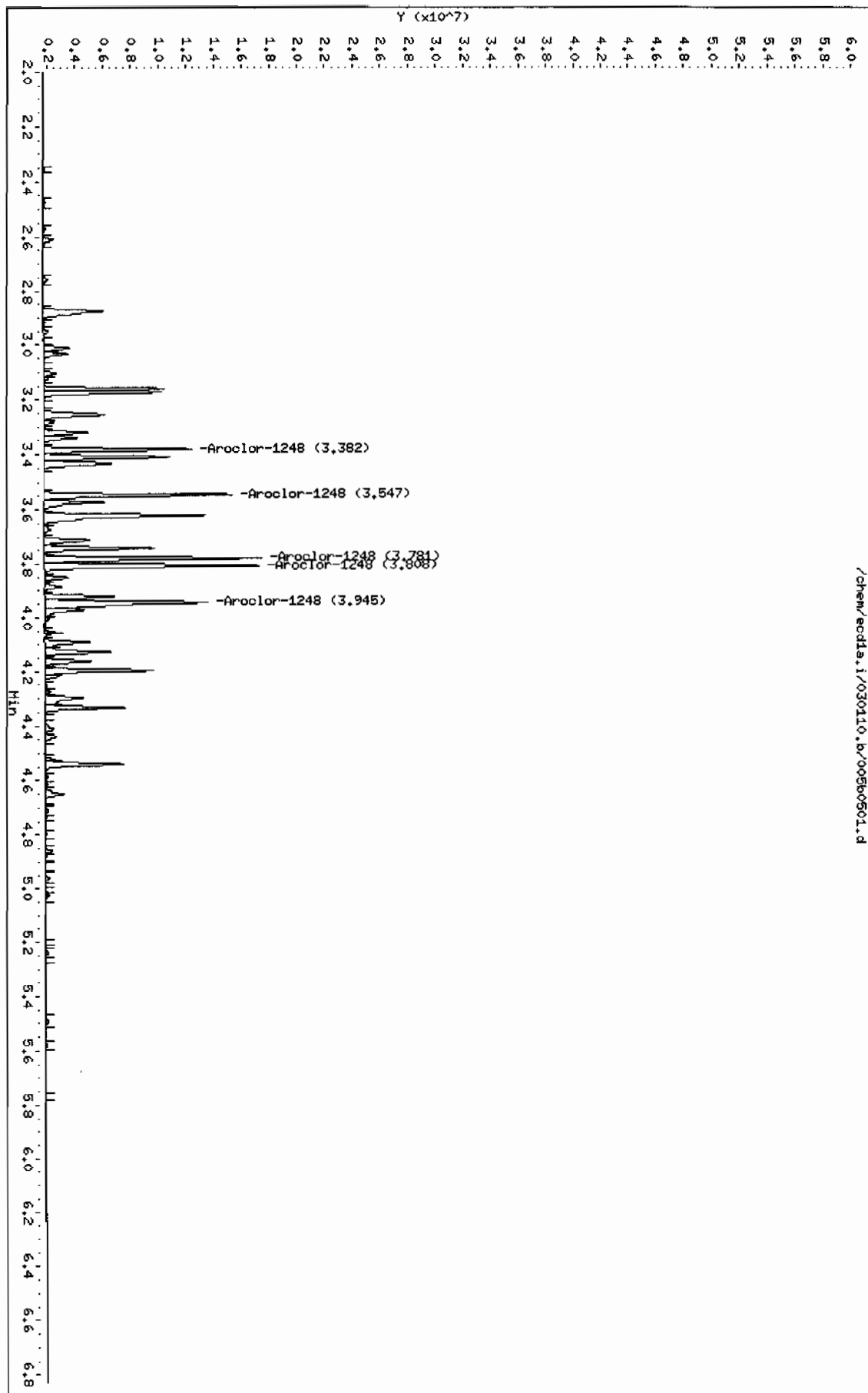
Column phase: CLP2

Instrument: ecdl1.i

Operator: YS1

Column diameter: 0.25

/chem/ecdl1.i/030110.b/00600501.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/006f0601.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 01-MAR-2010 06:28

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 6

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

1.919	1.919	0.000	38909661	100.000	90.4 80.00- 120.00	100.00
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\$ 12 Decachlorobiphenyl

CAS #: 2051-24-3

5.227	5.227	0.000	30198693	100.000	98.3 80.00- 120.00	100.00
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1 Aroclor-1016

CAS #: 12674-11-2

2.373	2.373	0.000	13308318	1000.00	865 80.00- 120.00	100.00
2.659	2.659	0.000	16936020	1000.00	929 105.80- 145.80	127.26
2.740	2.740	0.000	11017623	1000.00	913 60.67- 100.67	82.79
2.778	2.778	0.000	6662826	1000.00	939 28.50- 68.50	50.07
2.988	2.988	0.000	8400395	1000.00	942 41.07- 81.07	63.12

Average of Peak Amounts

918

7 Aroclor-1260

CAS #: 11096-82-5

3.714	3.714	0.000	16777115	1000.00	983 80.00- 120.00	100.00
3.877	3.877	0.000	24986460	1000.00	1060 129.35- 169.35	148.93
4.039	4.039	0.000	26723350	1000.00	1070 140.95- 180.95	159.28
4.107	4.107	0.000	15046298	1000.00	1040 70.53- 110.53	89.68
4.250	4.250	0.000	15540140	1000.00	1080 74.24- 114.24	92.63

Average of Peak Amounts

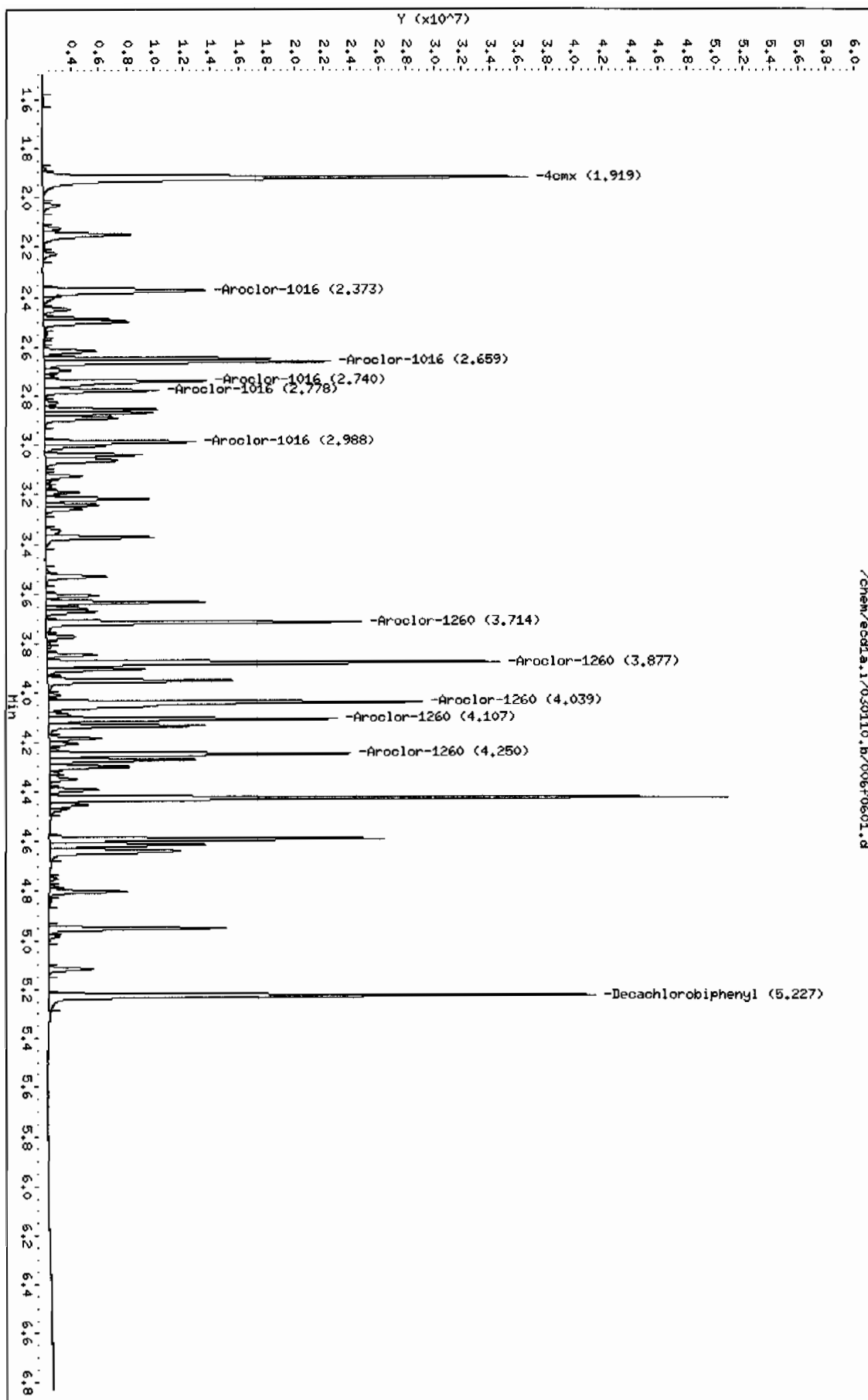
1.05e+03

Data File: /chem/eccl.a.i/030110.b/006f0601.d
Date : 01-MAR-2010 06:28
Client ID: AR166001
Sample Info: |MR100222-60 01

Column phase: CLP1

Instrument: eccl.a.i
Operator: YS1
Column diameter: 0.25

/chem/eccl.a.i/030110.b/006f0601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/006b0601.d
Lab Smp Id: WAR100222-60 01 Client Smp ID: AR166001
Inj Date : 01-MAR-2010 06:28
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100222-60 01
Misc Info :
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 01-Mar-2010 11:24 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 6 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			
2.278	2.278	0.000	27046977	100.000	90.9	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.923	5.923	0.000	19098067	100.000	90.3	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.174	3.174	0.000	11776868	1000.00	921	80.00-	120.00	100.00 (M)
3.257	3.257	0.000	7964740	1000.00	893	44.57-	84.57	67.63
3.320	3.320	0.000	4935768	1000.00	913	20.24-	60.24	41.91
3.547	3.547	0.000	6222912	1000.00	900	30.33-	70.33	52.84
3.623	3.623	0.000	5888255	1000.00	916	28.07-	68.07	50.00
Average of Peak Amounts =					909			

7 Aroclor-1260					CAS #: 11096-82-5			
4.314	4.314	0.000	12074141	1000.00	914	80.00-	120.00	100.00
4.439	4.439	0.000	14772970	1000.00	949	102.26-	142.26	122.35
4.704	4.704	0.000	11120482	1000.00	939	71.55-	111.55	92.10
4.878	4.878	0.000	11500807	1000.00	942	75.28-	115.28	95.25
5.024	5.024	0.000	25815917	1000.00	973	192.38-	232.38	213.81
Average of Peak Amounts =					944			

QC Flag Legend

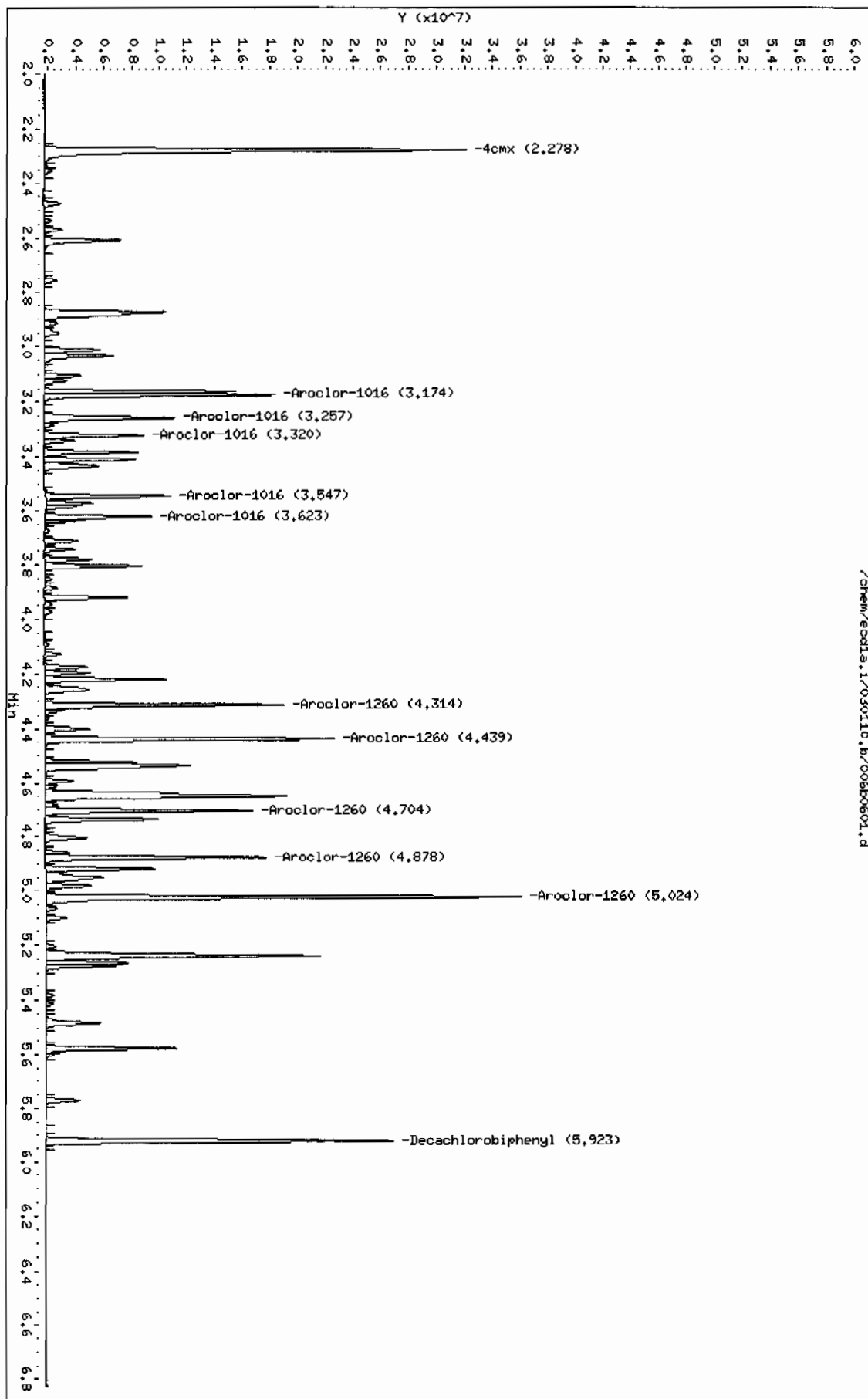
M - Compound response manually integrated.

Data File: /chem/eodla.i/030110.b/00600601.d
Date: 01-MAR-2010 06:28
Client ID: AR166001
Sample Info: 1MAR100222-60 01

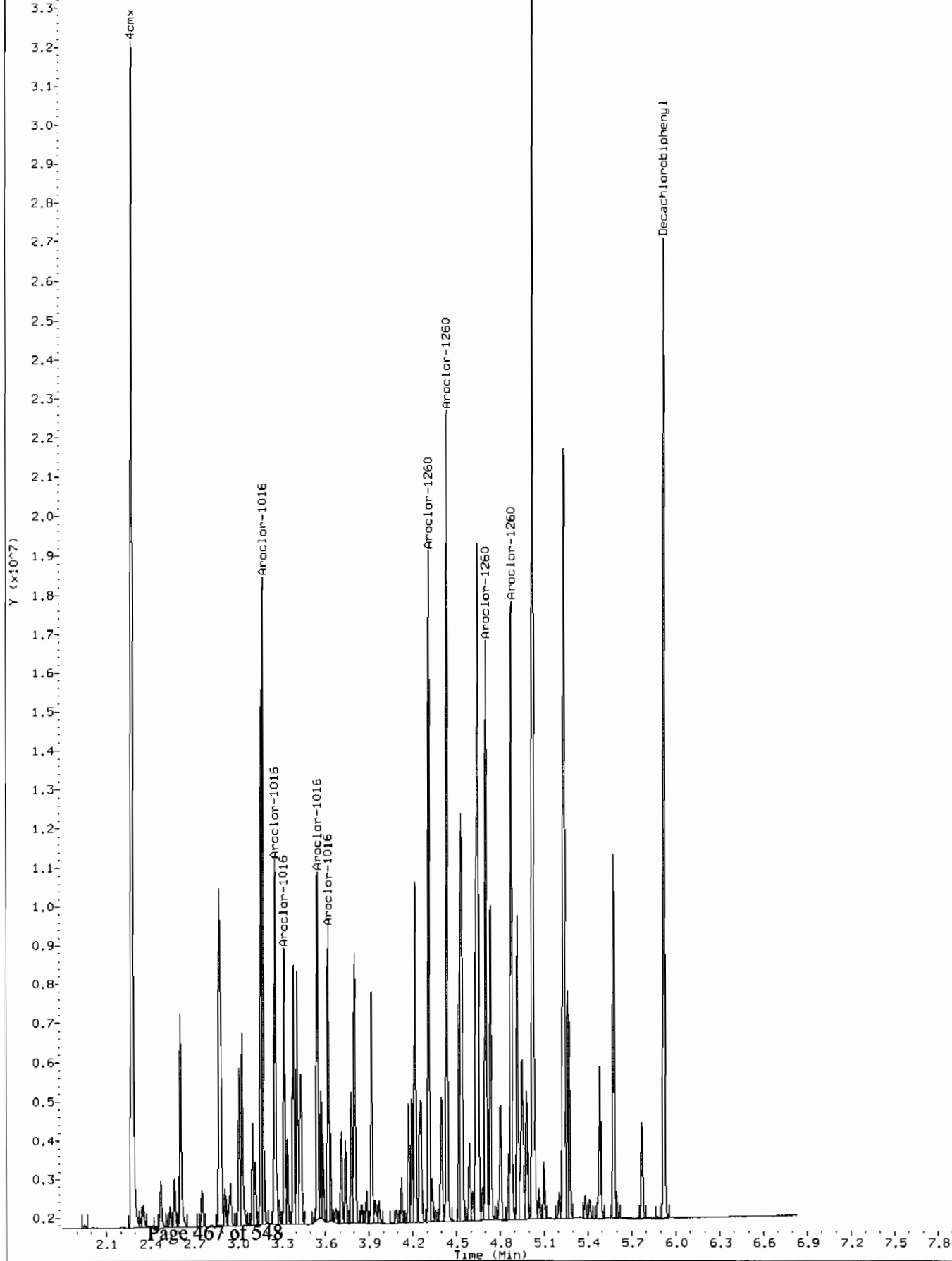
Column phase: CLP2

Instrument: eodla.i
Operator: YSI
Column diameter: 0.25

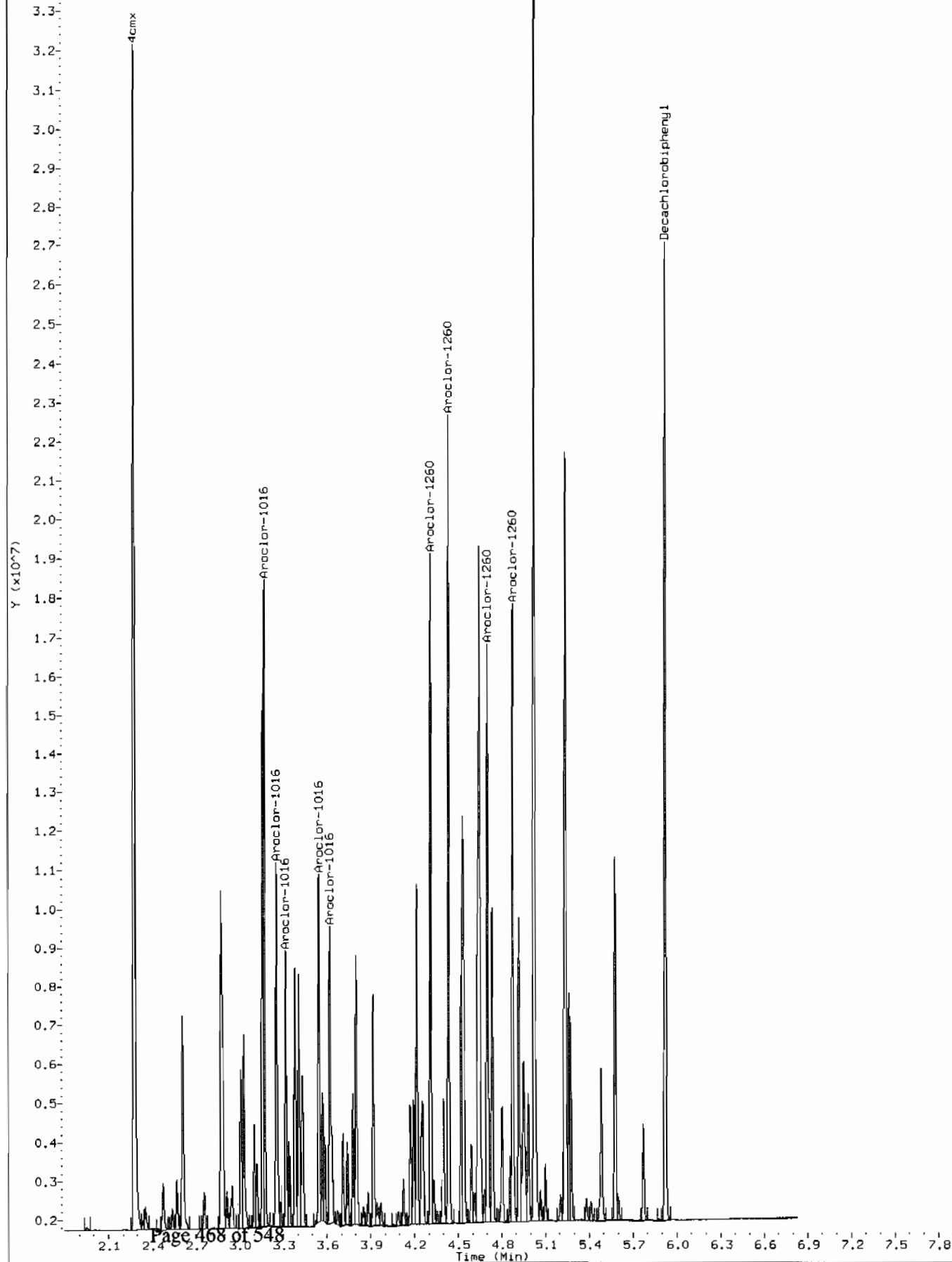
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Comment: Manually Integrated
Data File: /chem/ecdl.i/030110.b/006b0601.d
Operator: YS1
Injection Date: 01-MAR-2010 06:28
Instrument: ecdla.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdl.a.i/030110.b/Orig-006b0601.d
Operator: YS1
Injection Date: 01-MAR-2010 06:28
Instrument: ecdla.i
Client Sample ID: AR166001



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/008f0801.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 01-MAR-2010 06:49

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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		
2.372	2.372	0.000	6411010 1000.00	1030	80.00- 120.00	100.00
2.659	2.659	0.000	7990266 1000.00	1070	105.80- 145.80	124.63
2.739	2.739	0.000	5300618 1000.00	1080	60.67- 100.67	82.68
2.854	2.854	0.000	2583763 1000.00	1180	22.29- 62.29	40.30
3.241	3.241	0.000	3472287 1000.00	1270	2.02- 42.02	54.16
Average of Peak Amounts =			1.13e+03			

Data File: /chem/ecdda.i/030110.b/008f0801.d
Date : 01-MAR-2010 06:49
Client ID: AR123201
Sample Info: 1MAR100104-32

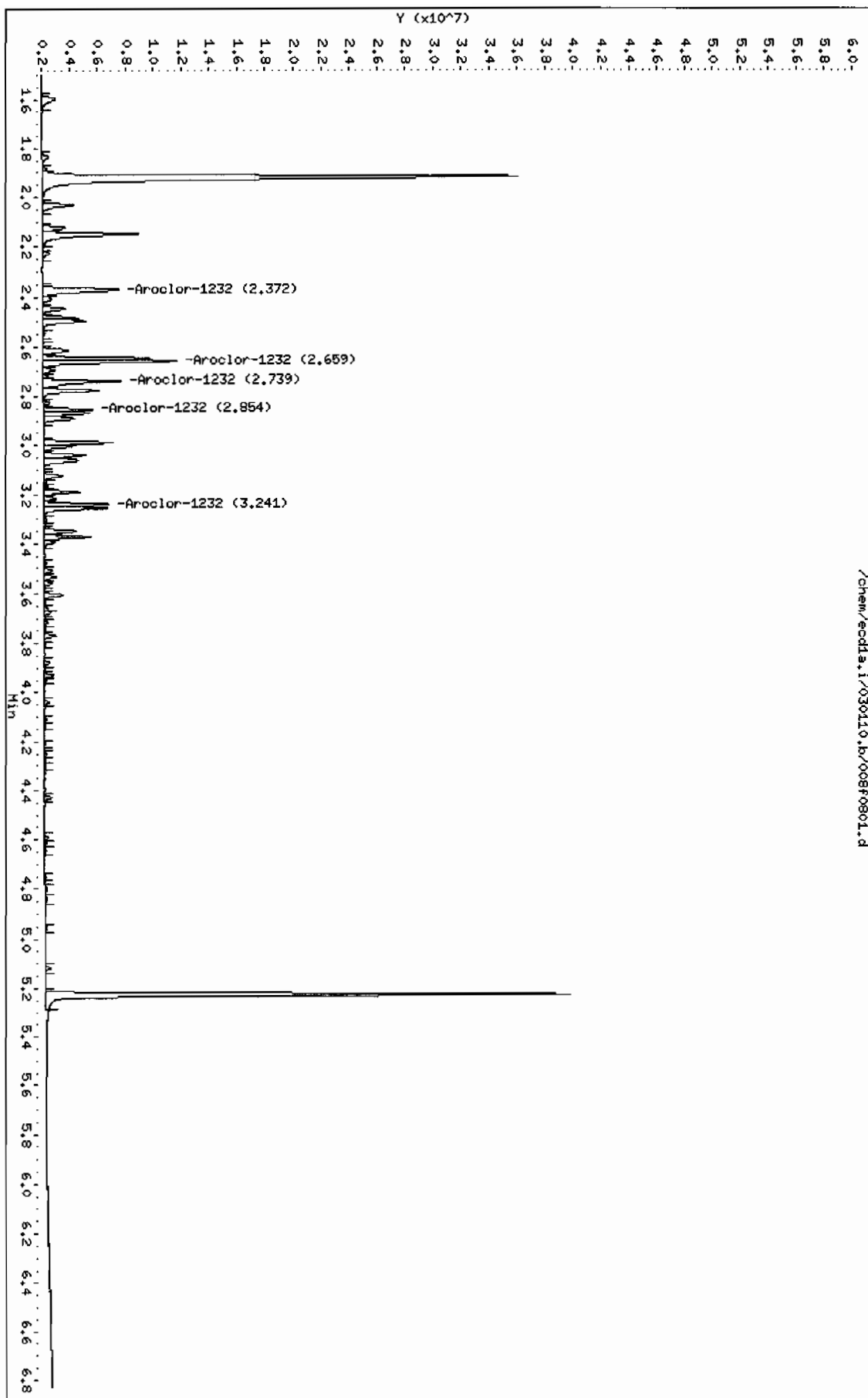
Instrument: ecdda.i

Page 1

Column phase: CLP1

Operator: YSI
Column diameter: 0.25

/chem/ecdda.i/030110.b/008f0801.d



Data File: /chem/ecdl1a.i/030110.b/008b0801.d
Report Date: 01-Mar-2010 11:55

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/008b0801.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 01-MAR-2010 06:49

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232			CAS #: 11141-16-5			
2.875	2.875	0.000	5144976	1000.00	1040 80.00- 120.00	100.00
3.174	3.174	0.000	5699021	1000.00	1080 90.77- 130.77	110.77
3.256	3.256	0.000	3960037	1000.00	1050 56.97- 96.97	76.97
3.547	3.547	0.000	2954233	1000.00	1090 37.42- 77.42	57.42
3.780	3.780	0.000	2947565	1000.00	1120 37.29- 77.29	57.29

Average of Peak Amounts = 1.08e+03

Data File: /chem/ecdl1.i/030110.b/00800801.d
Date: 01-MAR-2010 06:49
Client ID: AR123204
Sample Info: 1MAR100104-32

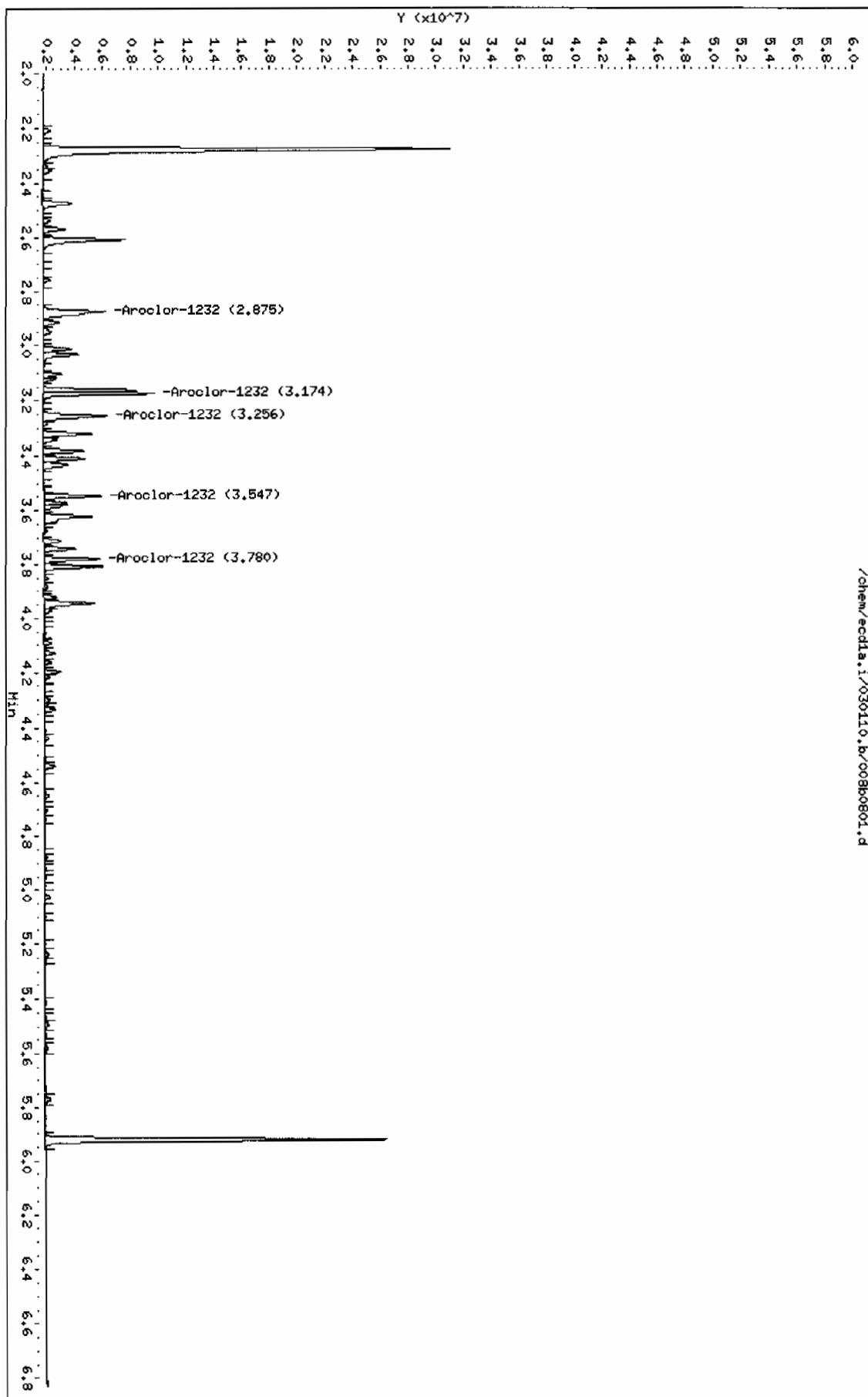
Instrument: ecdl1.i

Page 1

Column phase: CLP2

Operator: YS1
Column diameter: 0.25

/chem/ecdl1.i/030110.b/00800801.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/009f0901.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 01-MAR-2010 06:59

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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
2.031	2.031	0.000	4463092 1000.00	1010 80.00~ 120.00	100.00	
2.123	2.123	0.000	2494077 1000.00	1020 74.31~ 114.31	55.88	
2.149	2.149	0.000	10671634 1000.00	1020 528.48~ 568.48	239.11	
Average of Peak Amounts =			1.02e+03			

Data File: /chem/ecdl3.i/030110.b/009f0901.d

Date: 01-MAR-2010 06:59

Client ID: AR122101

Sample Info: 1MAR100104-21

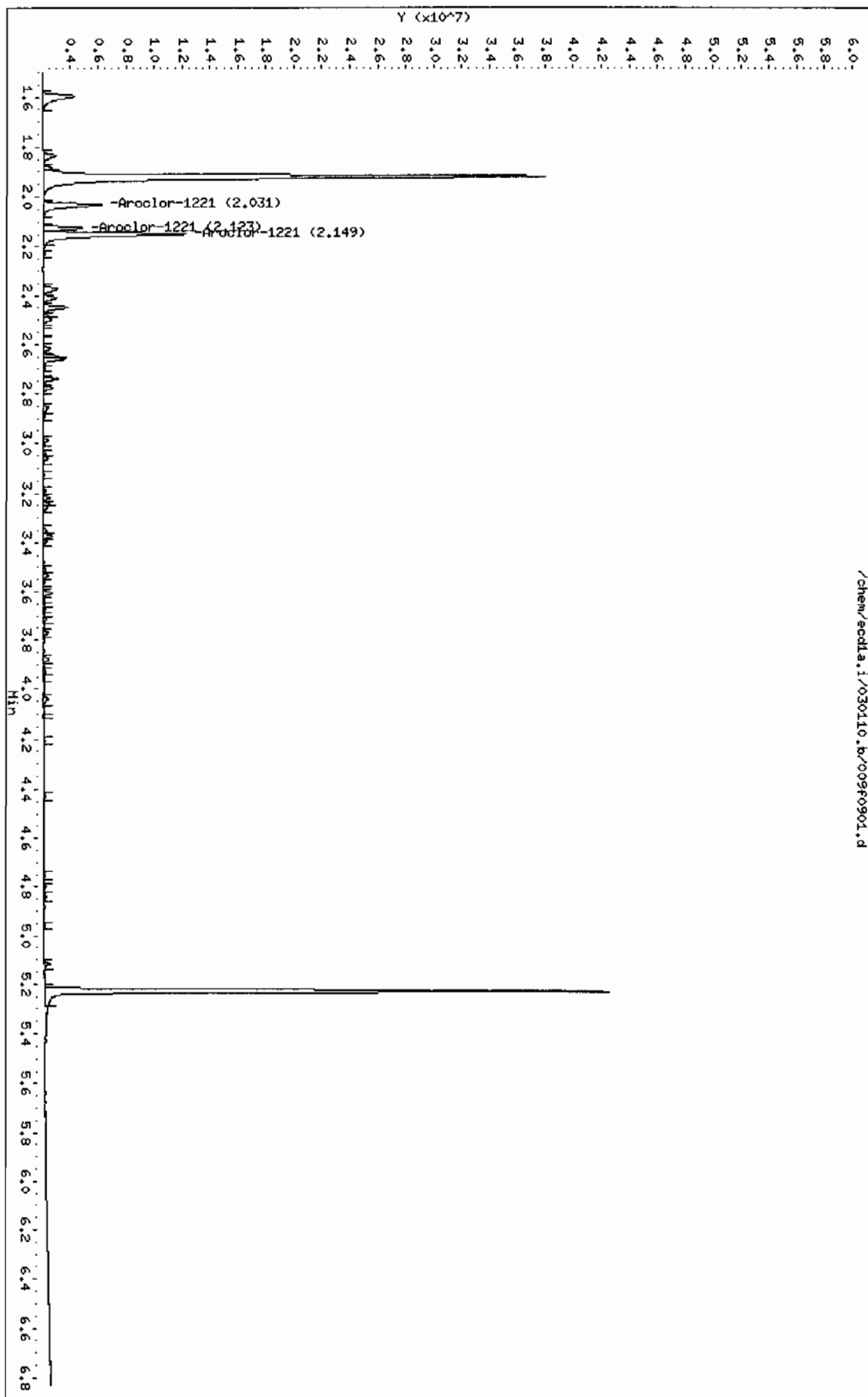
Column phase: CLP1

Instrument: ecdl3.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl3.i/030110.b/009f0901.d



Data File: /chem/ecdl1a.i/030110.b/009b0901.d
Report Date: 01-Mar-2010 11:55

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/009b0901.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 01-MAR-2010 06:59

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

CAL-AMT ON-COL

RT EXP RT DLT RT RESPONSE (ug/L) (ug/L) TARGET RANGE RATIO

2 Aroclor-1221

CAS #: 11104-28-2

2.474 2.474 0.000 3481091 1000.00 1010 80.00- 120.00 100.00

2.569 2.569 0.000 2214332 1000.00 1030 43.61- 83.61 63.61

2.609 2.609 0.000 7624830 1000.00 1040 199.04- 239.04 219.04

Average of Peak Amounts = 1.03e+03

Data File: /chem/ecdda.i/030110.b/009b0901.d
Date : 01-MAR-2010 06:59
Client ID: AR122101
Sample Info: IMR100104-21

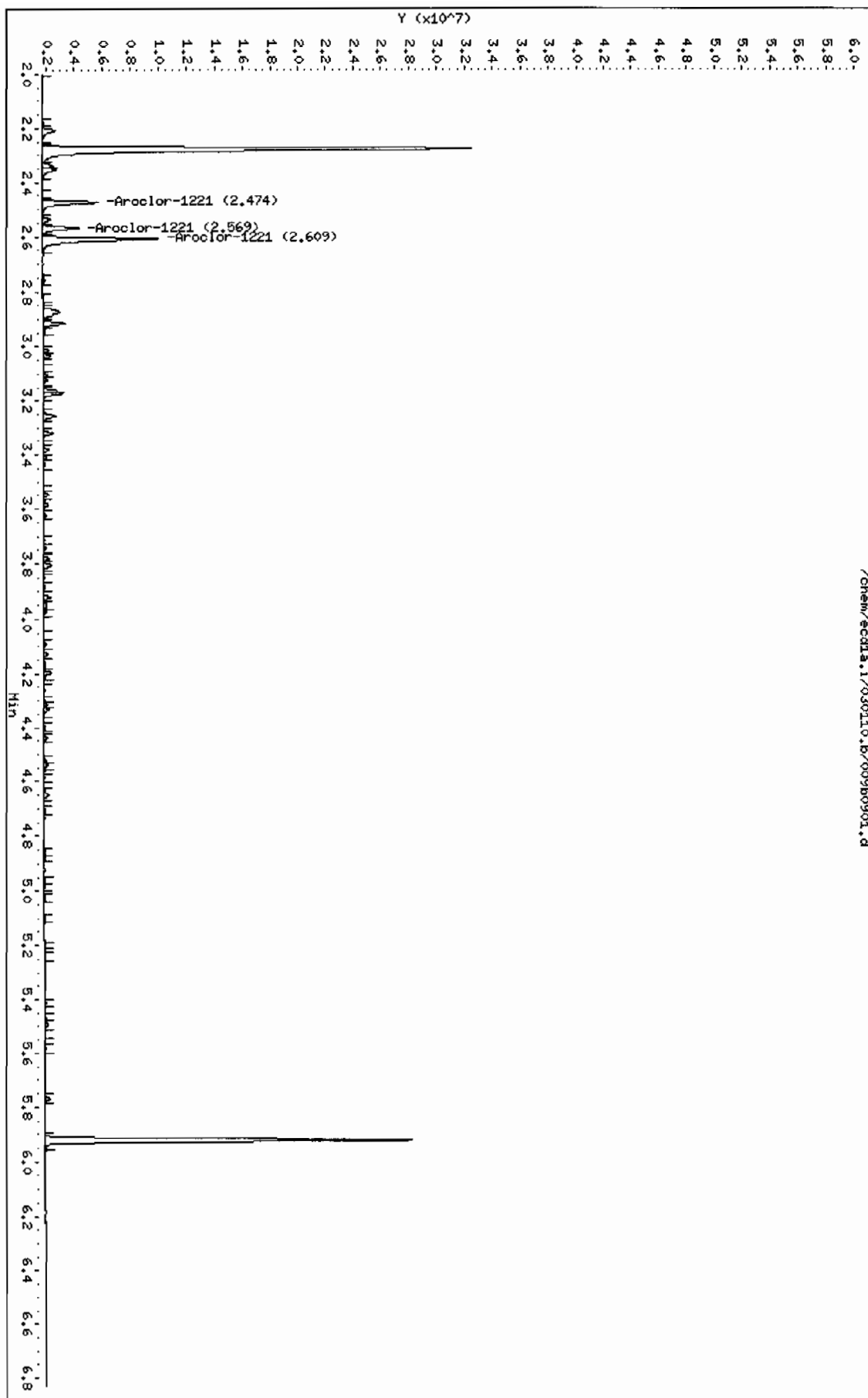
Instrument: ecdda.i

Page 1

Column phase: CLP2

Operator: YSL
Column diameter: 0.25

/chem/ecdda.i/030110.b/009b0901.d



Data File: /chem/ecdl1.i/030110.b/064f6401.d
 Report Date: 02-Mar-2010 07:27

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/064f6401.d

Lab Smp Id: WAR100222-60 06

Client Smp ID: AR166006

Inj Date : 01-MAR-2010 17:53

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 06

Misc Info :

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 64

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	1.919	-0.001	39725044	100.000	92.2 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.223	5.227	-0.004	30373956	100.000	98.8 80.00- 120.00	100.00

1 Aroclor-1016			CAS #: 12674-11-2			
2.371	2.373	-0.002	14001397	1000.00	910 80.00- 120.00	100.00
2.658	2.659	-0.001	17873745	1000.00	980 110.29- 150.29	127.66
2.738	2.740	-0.002	11318526	1000.00	938 62.85- 102.85	80.84
2.775	2.778	-0.003	6806827	1000.00	959 29.99- 69.99	48.62
2.985	2.988	-0.003	8633110	1000.00	969 43.89- 83.89	61.66
Average of Peak Amounts			951			

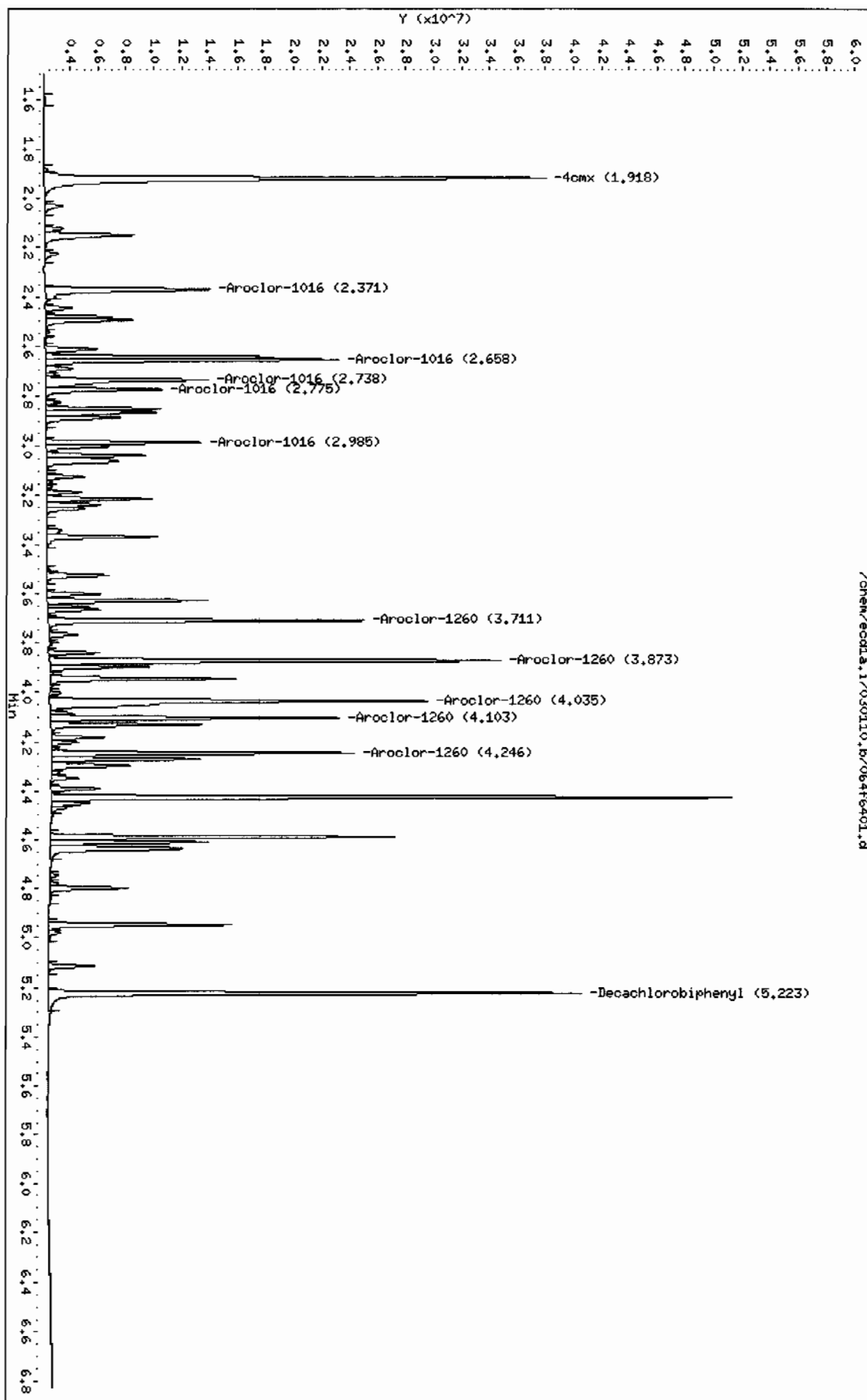
7 Aroclor-1260			CAS #: 11096-82-5			
3.711	3.714	-0.003	16785341	1000.00	983 80.00- 120.00	100.00
3.873	3.877	-0.004	25208398	1000.00	1070 129.88- 169.88	150.18
4.035	4.039	-0.004	26814029	1000.00	1070 140.76- 180.76	159.75
4.103	4.107	-0.004	15193036	1000.00	1050 70.44- 110.44	90.51
4.246	4.250	-0.004	15803008	1000.00	1100 74.18- 114.18	94.15
Average of Peak Amounts			1.05e+03			

Data File: /chem/eodla.i/030110.b/064f6401.d
Date: 01-MAR-2010 17:53
Client ID: AR16006
Sample Info: IWR100222-60 06

Column phase: CLP1

Instrument: eodla.i
Operator: YSL
Column diameter: 0.25

/chem/eodla.i/030110.b/064f6401.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/064b6401.d

Lab Smp Id: WAR100222-60 06

Client Smp ID: AR166006

Inj Date : 01-MAR-2010 17:53

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 06

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 64

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
\$ 11 4cmx				CAS #: 877-09-8		
2.278	2.278	0.000	27309446 100.000	91.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.918	5.923	-0.005	19919513 100.000	94.2	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.172	3.174	-0.002	12181240 1000.00	952	80.00- 120.00	100.00 (M)
3.254	3.257	-0.003	8065299 1000.00	904	46.21- 86.21	66.21
3.318	3.320	-0.002	5047029 1000.00	934	21.43- 61.43	41.43
3.545	3.547	-0.002	6578021 1000.00	951	34.00- 74.00	54.00
3.620	3.623	-0.003	6091101 1000.00	948	30.00- 70.00	60.30
Average of Peak Amounts				938		

7 Aroclor-1260				CAS #: 11096-82-5		
4.310	4.314	-0.004	12285327 1000.00	930	80.00- 120.00	100.00
4.435	4.439	-0.004	15011617 1000.00	964	102.19- 142.19	122.19
4.701	4.704	-0.003	11315020 1000.00	955	72.10- 112.10	92.10
4.873	4.878	-0.005	11828319 1000.00	969	76.28- 116.28	96.28
5.021	5.024	-0.003	26391121 1000.00	995	194.82- 234.82	214.82
Average of Peak Amounts				963		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1a.i/030110.b/064b6401.d

Date: 01-MAR-2010 17:53

Client ID: AR16006

Sample Info: IMR100222-60 06

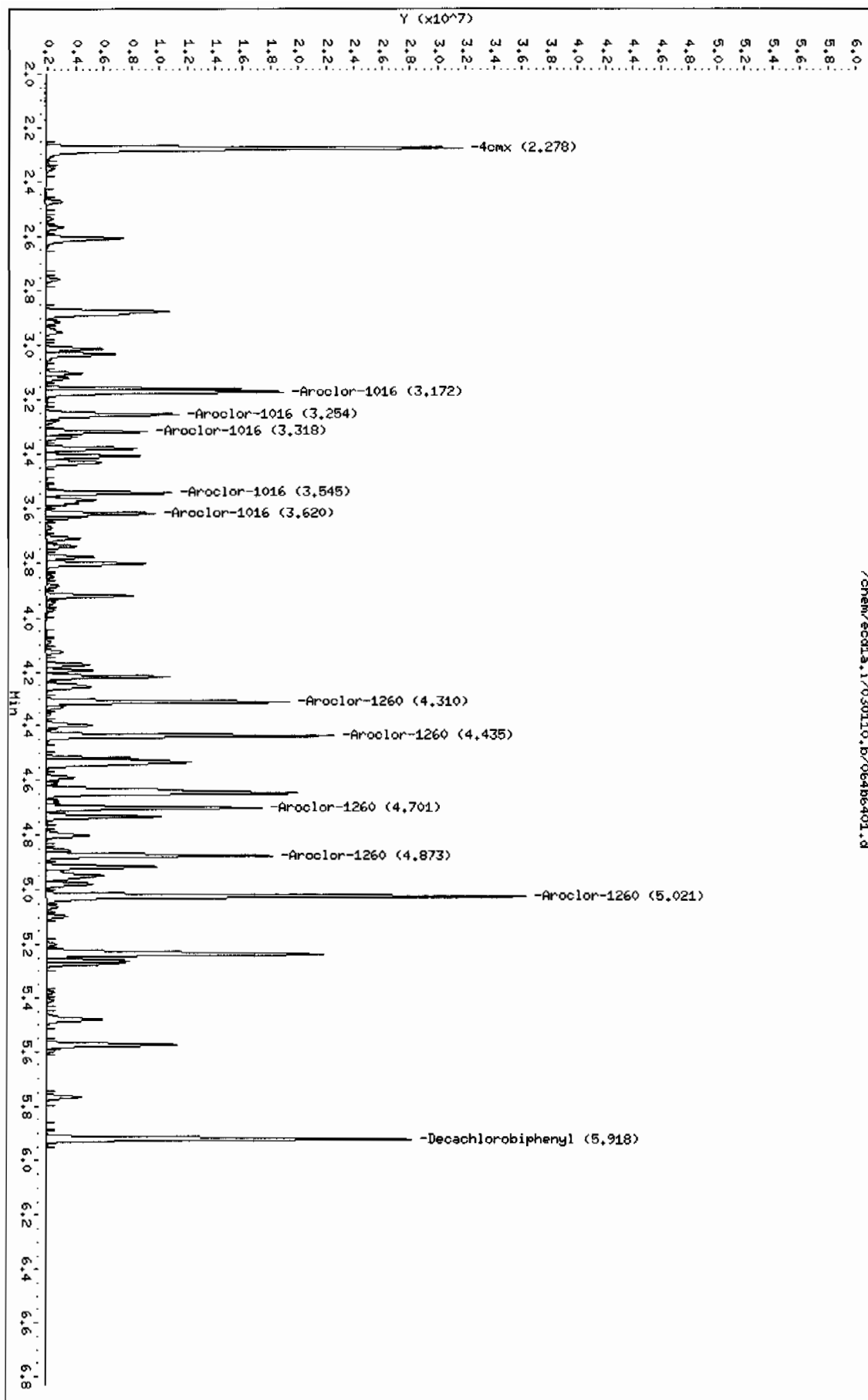
Column phase: CLP2

Instrument: ecdl1a.i

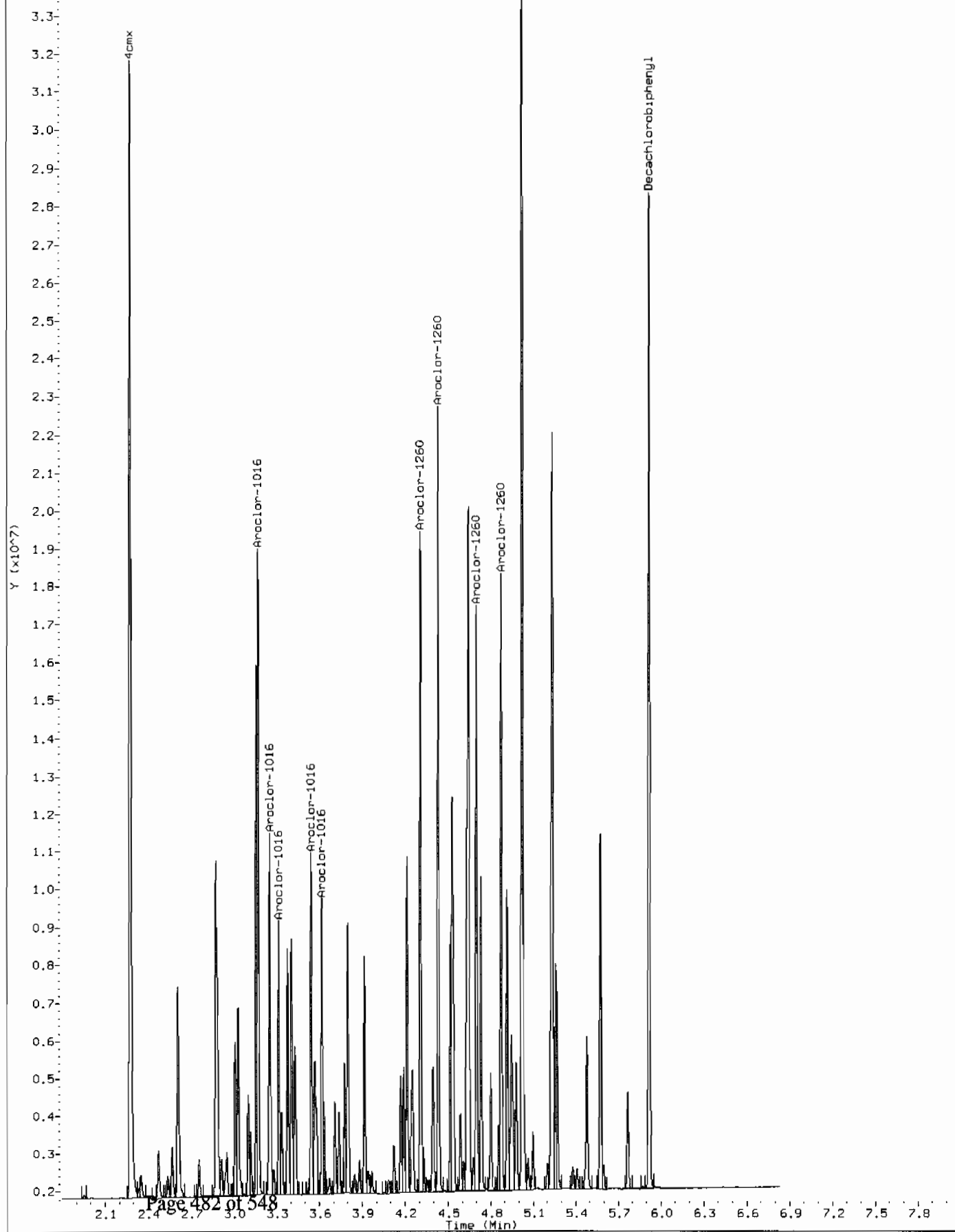
Operator: YSL

Column diameter: 0.25

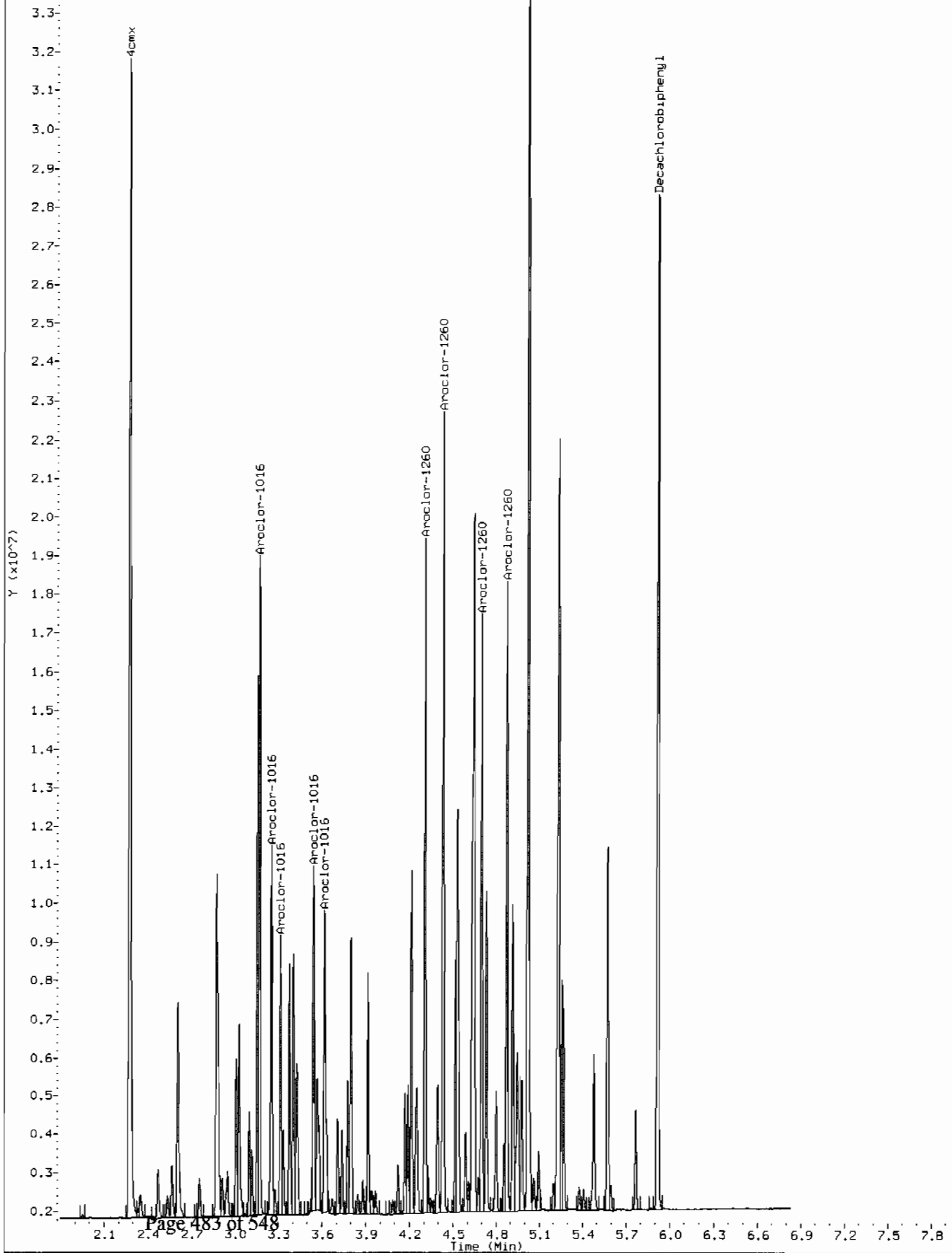
/chem/ecdl1a.i/030110.b/064b6401.d



Comment: Manually Integrated
Data File: /chem/ecdl.a.i/030110.b/064b6401.d
Operator: YS1
Injection Date: 01-MAR-2010 17:53
Instrument: ecdla.i
Client Sample ID: AR166006



Comment: Before manual integration
Data File: /chem/ecdl1a.i/030110.b/Orig-064b6401.d
Operator: YS1
Injection Date: 01-MAR-2010 17:53
Instrument: ecd1a.i
Client Sample ID: AR166006



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/076f7601.d

Lab Smp Id: WAR100222-60 07

Client Smp ID: AR166007

Inj Date : 01-MAR-2010 20:22

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 07

Misc Info :

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:52 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 76

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclpl

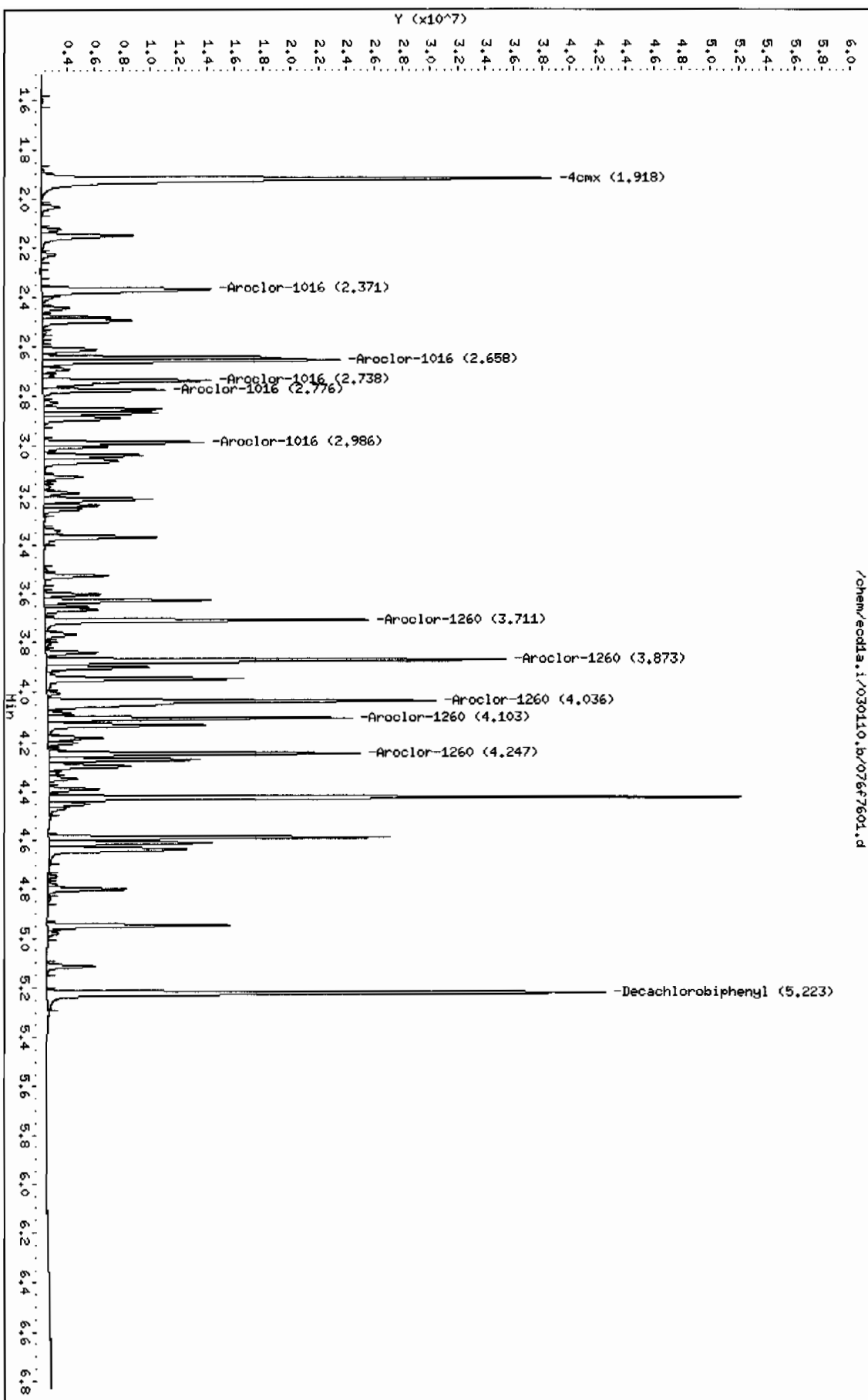
AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
1.918	1.919	-0.001	41126659	100.000	95.5	80.00-	120.00	100.00
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.223	5.227	-0.004	31982677	100.000	104	80.00-	120.00	100.00
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
2.371	2.373	-0.002	13929224	1000.00	905	80.00-	120.00	100.00
2.658	2.659	-0.001	17844761	1000.00	978	108.11-	148.11	128.11
2.738	2.740	-0.002	11586132	1000.00	960	63.18-	103.18	83.18
2.776	2.778	-0.002	7018783	1000.00	989	30.39-	70.39	50.39
2.986	2.988	-0.002	8947227	1000.00	1000	44.23-	84.23	64.23
Average of Peak Amounts =					967			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
3.711	3.714	-0.003	17572838	1000.00	1030	80.00-	120.00	100.00
3.873	3.877	-0.004	26069423	1000.00	1100	128.35-	168.35	148.35
4.036	4.039	-0.003	27951790	1000.00	1120	139.06-	179.06	159.06
4.103	4.107	-0.004	15749997	1000.00	1090	69.63-	109.63	89.63
4.247	4.250	-0.003	16274579	1000.00	1130	72.61-	112.61	92.61
Average of Peak Amounts =					1.09e+03			

Data File: /chem/ecdda.i/030110.b/076f7601.d
Date: 01-MAR-2010 20:22
Client ID: AR166007
Sample Info: IMR100222-60 07

Column phase: CLP1

Instrument: ecdda.i
Operator: YSI
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/076b7601.d

Lab Smp Id: WAR100222-60 07

Client Smp ID: AR166007

Inj Date : 01-MAR-2010 20:22

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 07

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 76

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
			=====		=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
2.278	2.278	0.000	28308116	100.000	95.2	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.919	5.923	-0.004	20426695	100.000	96.6	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.173	3.174	-0.001	12456533	1000.00	974	80.00- 120.00	100.00 (M)	
3.255	3.257	-0.002	8271802	1000.00	928	46.21- 86.21	66.41	
3.318	3.320	-0.002	5151952	1000.00	953	21.43- 61.43	41.36	
3.545	3.547	-0.002	6716023	1000.00	971	34.00- 74.00	53.92	
3.621	3.623	-0.002	6308355	1000.00	982	30.00- 70.00	60.23	
Average of Peak Amounts =					961			

7 Aroclor-1260					CAS #: 11096-82-5			
4.310	4.314	-0.004	12624648	1000.00	956	80.00- 120.00	100.00	
4.435	4.439	-0.004	15459095	1000.00	993	102.19- 142.19	122.45	
4.702	4.704	-0.002	11613675	1000.00	980	72.10- 112.10	91.99	
4.874	4.878	-0.004	12091699	1000.00	991	76.28- 116.28	95.78	
5.022	5.024	-0.002	27075746	1000.00	1020	194.82- 234.82	214.47	
Average of Peak Amounts =					988			

QC Flag Legend

M - Compound response manually integrated.

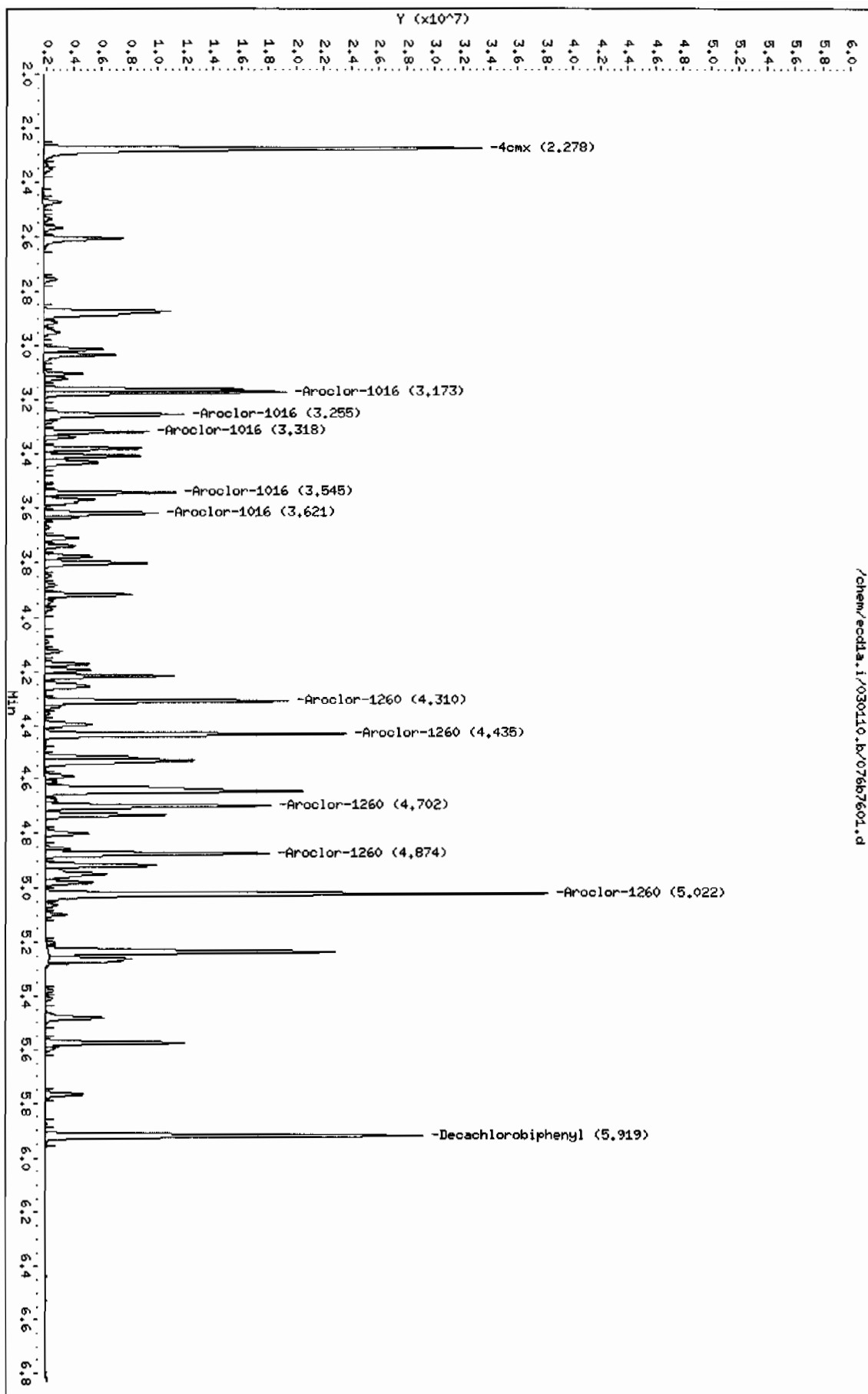
Data File: /chem/ecdtla.i/030110.b/076b7601.d
Date: 01-MAR-2010 20:22
Client ID: AR16007
Sample Info: IWR100222-60 07

Instrument: ecdtla.i

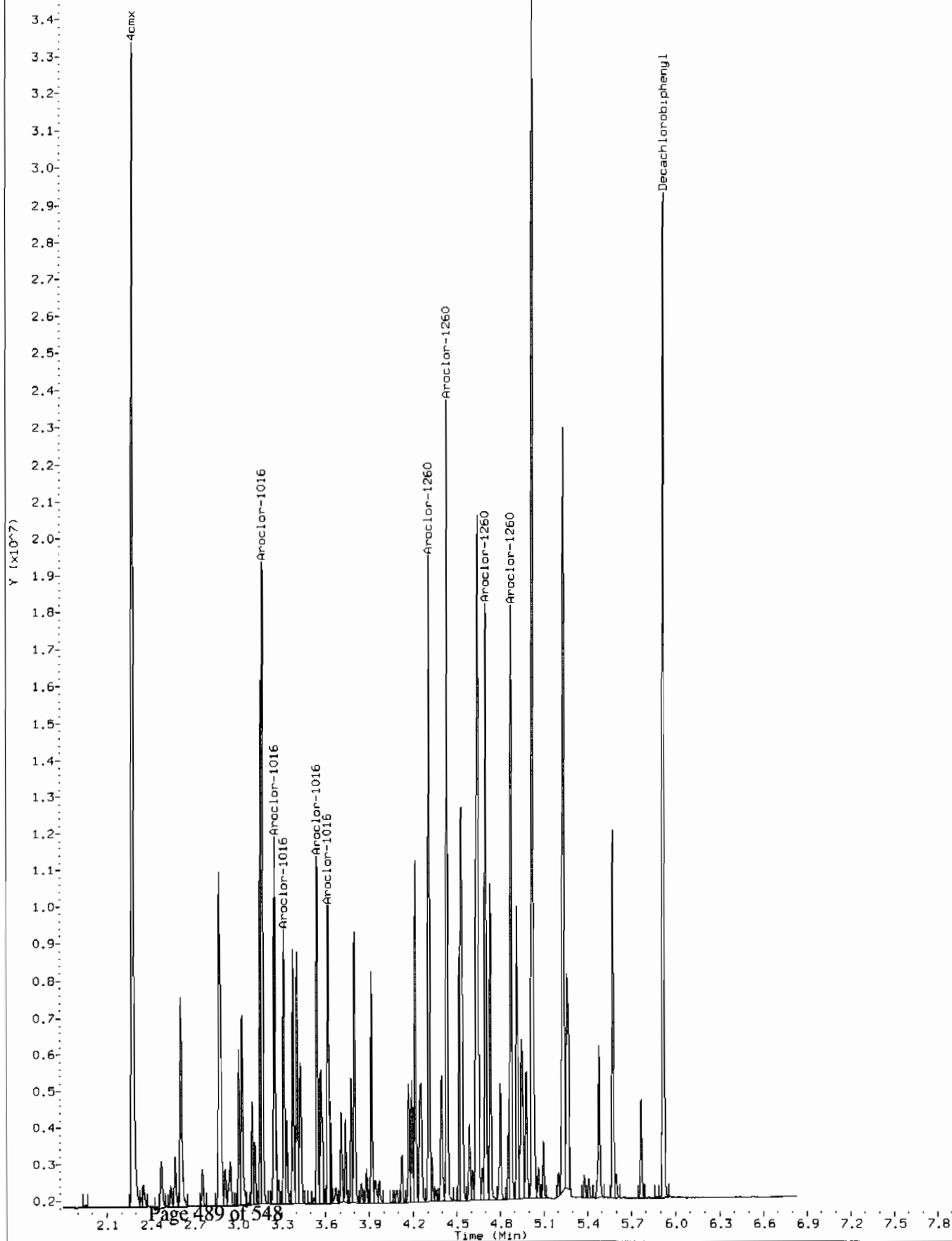
Page 1

Column phase: CLP2

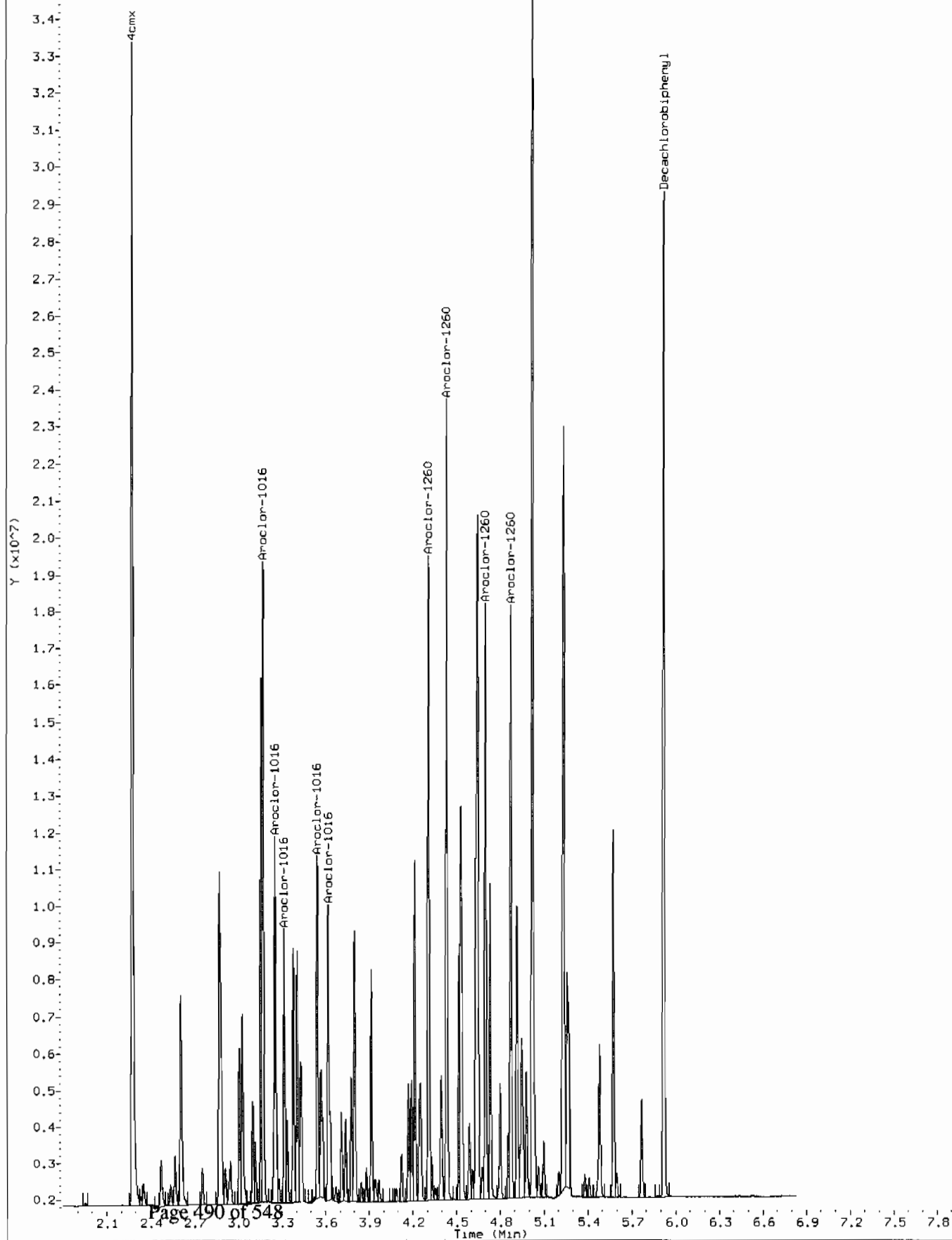
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030110.b/076b7601.d
Operator: YS1
Injection Date: 01-MAR-2010 20:22
Instrument: ecd1a.i
Client Sample ID: AR166007



Comment: Before manual integration
Data File: /chem/ecdl.a.i/030110.b/Orig-076b7601.d
Operator: YS1
Injection Date: 01-MAR-2010 20:22
Instrument: ecdla.i
Client Sample ID: AR166007



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/081f8101.d

Lab Smp Id: WAR100222-60 08

Client Smp ID: AR166008

Inj Date : 01-MAR-2010 21:26

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 08

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:53 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 81

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

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	1.919	-0.001	42253977	100.000	98.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.223	5.227	-0.004	32884895	100.000	107 80.00- 120.00	100.00

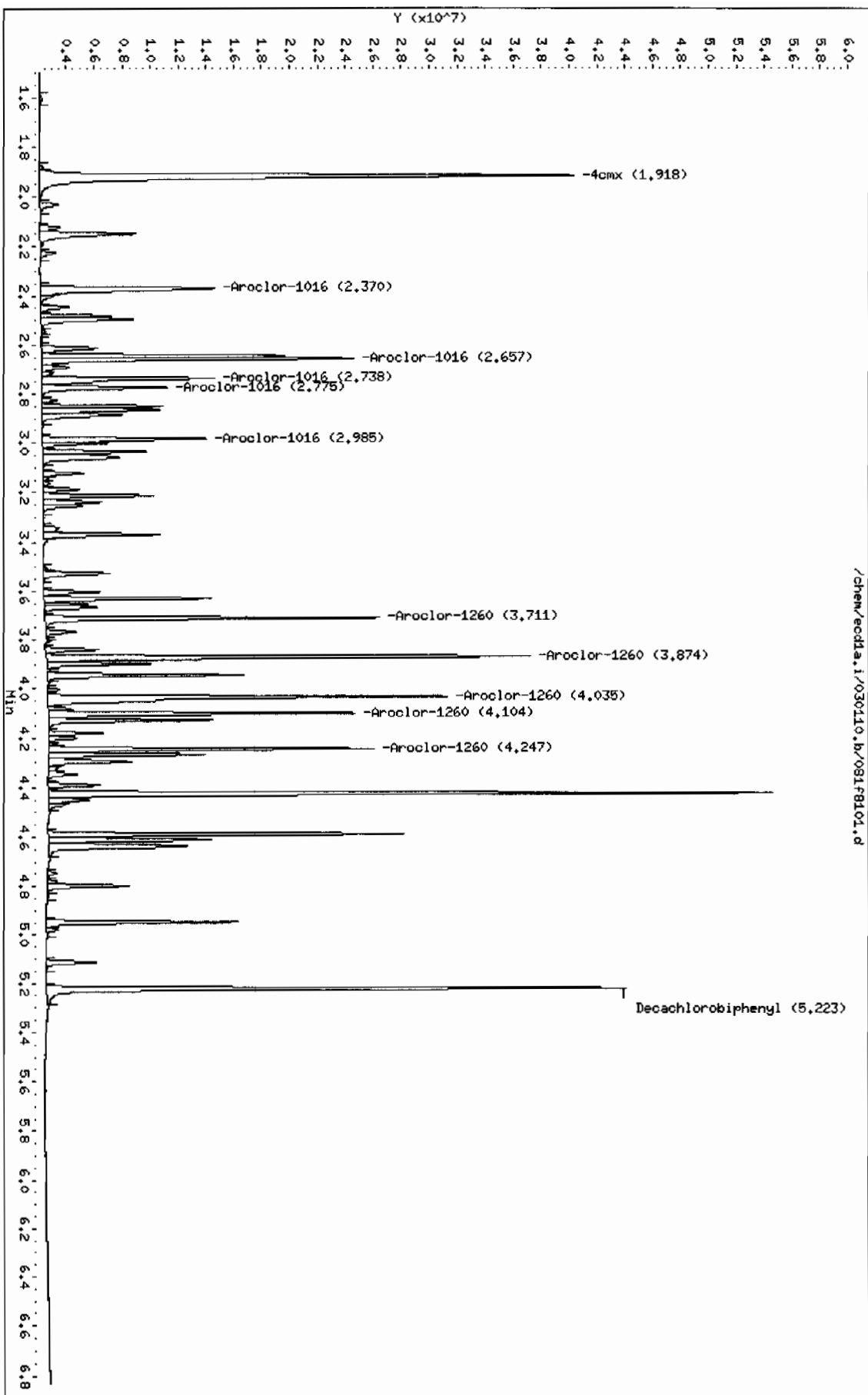
1 Aroclor-1016 CAS #: 12674-11-2						
2.370	2.373	-0.003	14343863	1000.00	932 80.00- 120.00	100.00
2.657	2.659	-0.002	18426261	1000.00	1010 108.46- 148.46	128.46
2.738	2.740	-0.002	11892705	1000.00	986 62.91- 102.91	82.91
2.775	2.778	-0.003	7209176	1000.00	1020 30.26- 70.26	50.26
2.985	2.988	-0.003	9170570	1000.00	1030 43.93- 83.93	63.93
Average of Peak Amounts =				995		

7 Aroclor-1260 CAS #: 11096-82-5						
3.711	3.714	-0.003	17636296	1000.00	1030 80.00- 120.00	100.00
3.874	3.877	-0.003	26527952	1000.00	1120 130.42- 170.42	150.42
4.035	4.039	-0.004	28416024	1000.00	1140 141.12- 181.12	161.12
4.104	4.107	-0.003	15984423	1000.00	1110 70.63- 110.63	90.63
4.247	4.250	-0.003	16655086	1000.00	1150 74.44- 114.44	94.44
Average of Peak Amounts =				1.11e+03		

Data File: /chem/ecdl.a.i/030110.b/081f8101.d
Date: 01-MAR-2010 21:26
Client ID: AR166008
Sample Info: IMRR100222-60 08

Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/081b8101.d

Lab Smp Id: WAR100222-60 08

Client Smp ID: AR166008

Inj Date : 01-MAR-2010 21:26

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 08

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 81

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx						CAS #: 877-09-8		
2.277	2.278	-0.001	29148925	100.000	98.0	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
5.919	5.923	-0.004	21068418	100.000	99.6	80.00-	120.00	100.00

1 Aroclor-1016						CAS #: 12674-11-2		
3.172	3.174	-0.002	12926446	1000.00	1010	80.00-	120.00	100.00(M)
3.255	3.257	-0.002	8531111	1000.00	957	46.41-	86.41	66.00
3.318	3.320	-0.002	5338654	1000.00	988	21.36-	61.36	41.30
3.545	3.547	-0.002	6909357	1000.00	999	33.92-	73.92	53.45
3.620	3.623	-0.003	6448837	1000.00	1000	30.64-	70.64	59.50
Average of Peak Amounts =					992			

7 Aroclor-1260						CAS #: 11096-82-5		
4.311	4.314	-0.003	13009960	1000.00	985	80.00-	120.00	100.00
4.435	4.439	-0.004	15899561	1000.00	1020	102.45-	142.45	122.21
4.701	4.704	-0.003	11972939	1000.00	1010	71.99-	111.99	92.03
4.875	4.878	-0.003	12457070	1000.00	1020	75.78-	115.78	95.75
5.021	5.024	-0.003	27890658	1000.00	1050	194.47-	234.47	214.38
Average of Peak Amounts =					1.02e+03			

QC Flag Legend

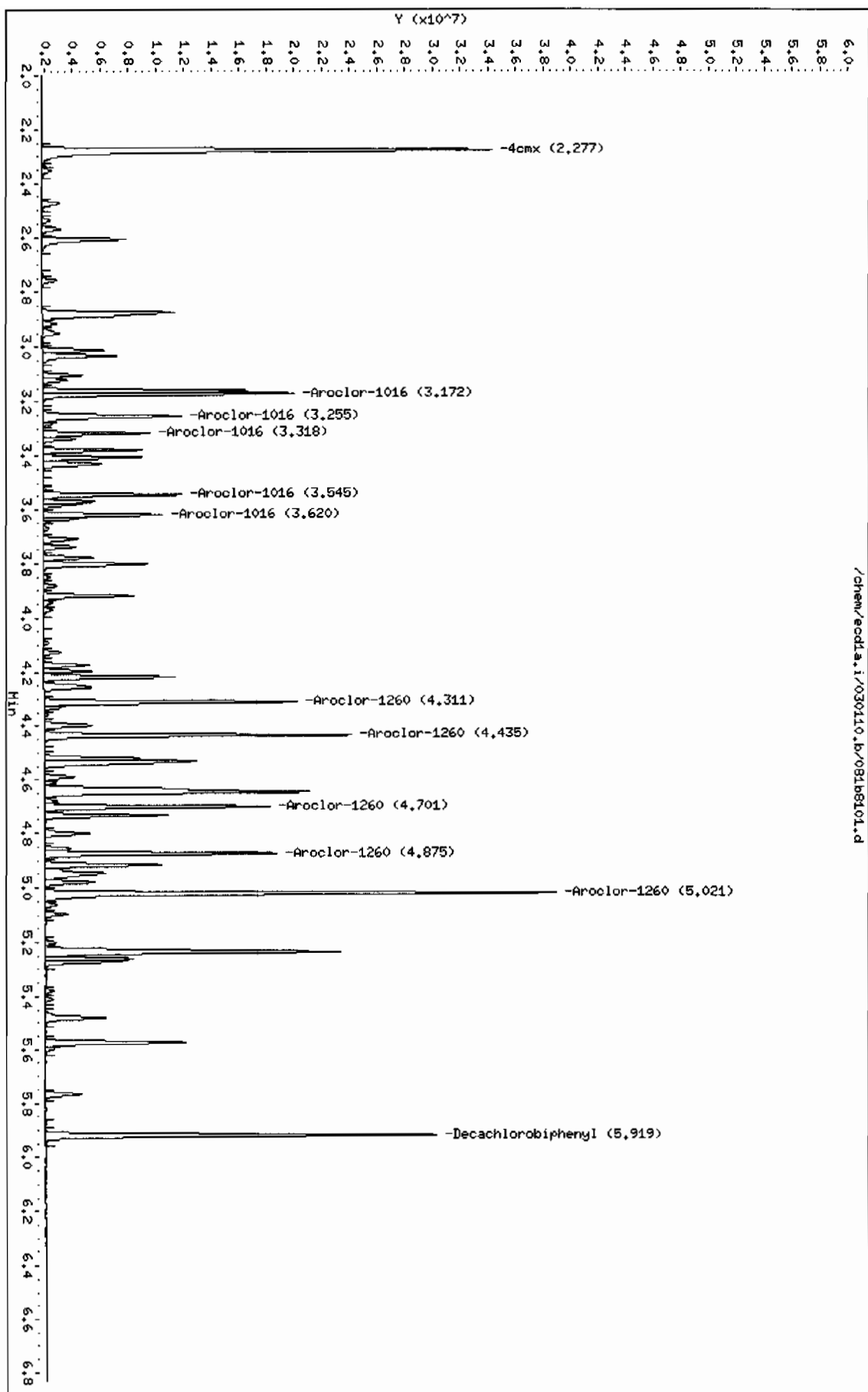
M - Compound response manually integrated.

Data File: /chem/eod1a.i/030110.b/08106101.d
Date: 01-MAR-2010 21:26
Client ID: ARI66008
Sample Info: IARI00222-60 08

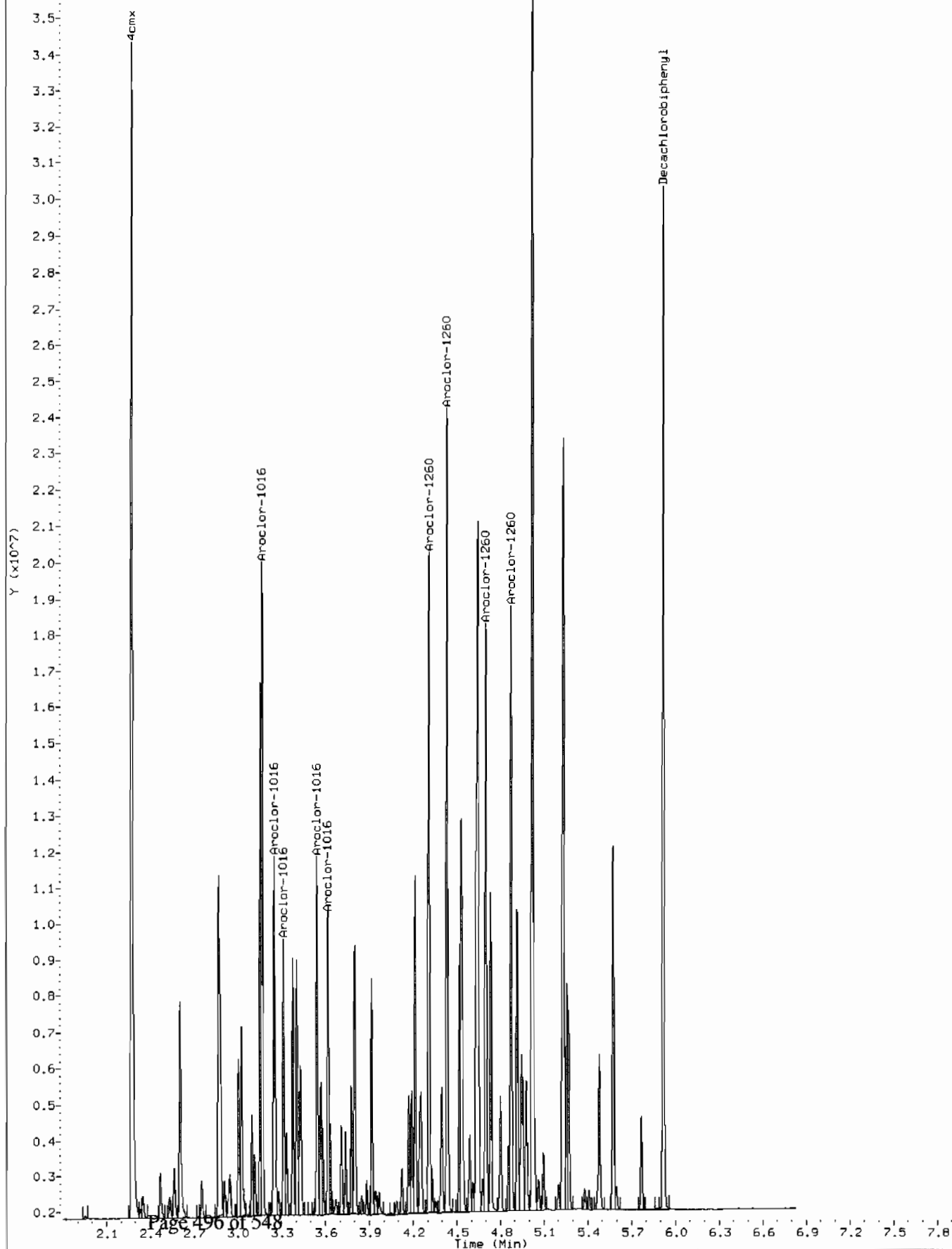
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

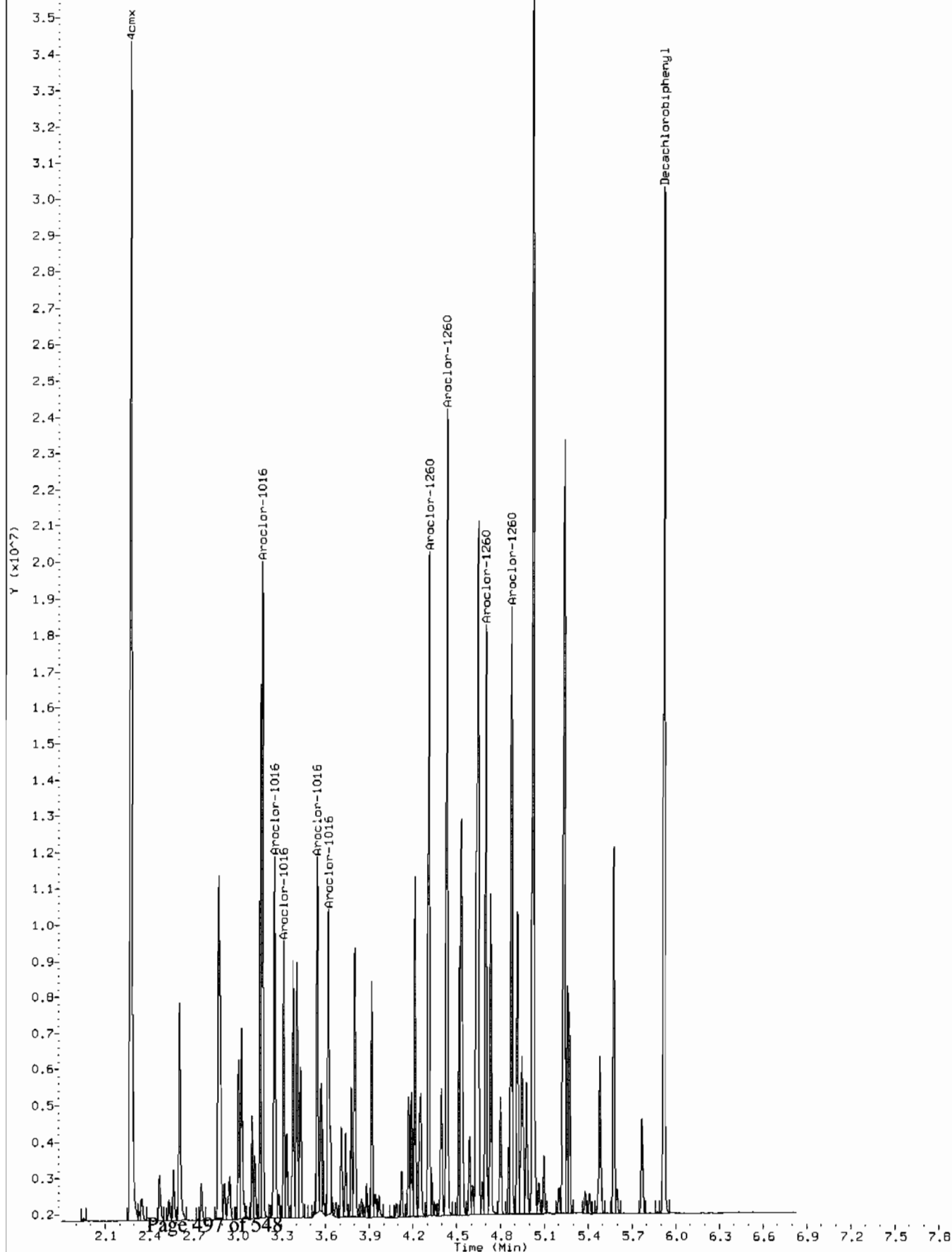
/chem/eod1a.i/030110.b/08106101.d



Comment: Manually Integrated
Data File: /chem/ecdla.i/030110.b/081b8101.d
Operator: YS1
Injection Date: 01-MAR-2010 21:26
Instrument: ecdla.i
Client Sample ID: AR166008



Comment: Before manual integration
Data File: /chem/ecdl1.i/030110.b/Orig-081b8101.d
Operator: YS1
Injection Date: 01-MAR-2010 21:26
Instrument: ecd1a.i
Client Sample ID: AR166008



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.: 10-1972

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	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#	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			

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.: 10-1972

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.: 10-1972

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.: 10-1972

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

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.

page 2 of 2

FORM VIII PEST

OLM03.0

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.: 10-1972

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	03/01/10	0535	1.92		5.22
02	ZZZZZ	ZZZZZ	03/01/10	0546	1.92		5.23
03	AR125401	WAR100219-54	03/01/10	0556			
04	AR124201	WAR100219-42	03/01/10	0607			
05	AR124801	WAR100223-48	03/01/10	0617			
06	AR166001	WAR100222-60	03/01/10	0628	1.92		5.23
07	AR126801	WAR100107-68	03/01/10	0638			
08	AR123201	WAR100104-32	03/01/10	0649			
09	AR122101	WAR100104-21	03/01/10	0659			
10	AR126201	WAR100104-62	03/01/10	0710			
11	DDTANALOGSTD	WAR091219-DD	03/01/10	0720			
12	PIBLK02	WAR100219-99	03/01/10	0731	1.92		5.23
13	ZZZZZ	ZZZZZ	03/01/10	0741	1.92		5.23
14	ZZZZZ	ZZZZZ	03/01/10	0752	1.92		5.23
15	ZZZZZ	ZZZZZ	03/01/10	0802	1.92		5.23
16	ZZZZZ	ZZZZZ	03/01/10	0813	1.92		5.23
17	AR166002	WAR100222-60	03/01/10	0825	1.92		5.22
18	PIBLK03	WAR100219-99	03/01/10	0836	1.92		5.22
19	ZZZZZ	ZZZZZ	03/01/10	0847	1.92		5.23
20	ZZZZZ	ZZZZZ	03/01/10	0857	1.92		5.23
21	ZZZZZ	ZZZZZ	03/01/10	0907	1.94		5.24
22	ZZZZZ	ZZZZZ	03/01/10	0920	1.94		5.23
23	ZZZZZ	ZZZZZ	03/01/10	0933	1.94		5.23
24	ZZZZZ	ZZZZZ	03/01/10	0945	1.94		5.23
25	ZZZZZ	ZZZZZ	03/01/10	0958	1.94		5.23
26	ZZZZZ	ZZZZZ	03/01/10	1010	1.94		5.23
27	ZZZZZ	ZZZZZ	03/01/10	1023	1.92		5.22
28	ZZZZZ	ZZZZZ	03/01/10	1036	1.94		5.23
29	AR166003	WAR100222-60	03/01/10	1048	1.92		5.22
30	PIBLK04	WAR100219-99	03/01/10	1059	1.92		5.23
31	ZZZZZ	ZZZZZ	03/01/10	1109	1.94		5.23
32	ZZZZZ	ZZZZZ	03/01/10	1122	1.94		5.24

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.: 10-1972

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	ZZZZZ	03/01/10	1135	1.94	5.23	
02	ZZZZZ	ZZZZZ	03/01/10	1147	1.94	5.23	
03	ZZZZZ	ZZZZZ	03/01/10	1200	1.93	5.22	
04	AR166003	WAR100222-60	03/01/10	1212	1.92	5.22	
05	PIBLK04	WAR100219-99	03/01/10	1223	1.92	5.22	
06	ZZZZZ	ZZZZZ	03/01/10	1233	1.92	5.22	
07	ZZZZZ	ZZZZZ	03/01/10	1244	1.92	5.23	
08	ZZZZZ	ZZZZZ	03/01/10	1255	1.92	5.23	
09	ZZZZZ	ZZZZZ	03/01/10	1307	1.92	5.22	
10	ZZZZZ	ZZZZZ	03/01/10	1320	1.92	5.22	
11	ZZZZZ	ZZZZZ	03/01/10	1332	1.92	5.22	
12	ZZZZZ	ZZZZZ	03/01/10	1345	1.92	5.22	
13	ZZZZZ	ZZZZZ	03/01/10	1358	1.92	5.22	
14	ZZZZZ	ZZZZZ	03/01/10	1410	1.92	5.22	
15	ZZZZZ	ZZZZZ	03/01/10	1423	1.92	5.22	
16	AR166004	WAR100222-60	03/01/10	1435	1.92	5.22	
17	PIBLK05	WAR100219-99	03/01/10	1446	1.92	5.23	
18	ZZZZZ	ZZZZZ	03/01/10	1456	1.92	5.22	
19	ZZZZZ	ZZZZZ	03/01/10	1509	1.92	5.22	
20	ZZZZZ	ZZZZZ	03/01/10	1521	1.92	5.22	
21	ZZZZZ	ZZZZZ	03/01/10	1534	1.92	5.22	
22	ZZZZZ	ZZZZZ	03/01/10	1547	1.92	5.22	
23	AR166005	WAR100222-60	03/01/10	1559	1.92	5.22	
24	PIBLK06	WAR100219-99	03/01/10	1612	1.92	5.22	
25	ZZZZZ	ZZZZZ	03/01/10	1625	1.92	5.22	
26	ZZZZZ	ZZZZZ	03/01/10	1637	1.92	5.22	
27	ZZZZZ	ZZZZZ	03/01/10	1650	1.92	5.22	
28	ZZZZZ	ZZZZZ	03/01/10	1702	1.92	5.22	
29	ZZZZZ	ZZZZZ	03/01/10	1715	1.92	5.22	
30	ZZZZZ	ZZZZZ	03/01/10	1728	1.92	5.22	
31	ZZZZZ	ZZZZZ	03/01/10	1740	1.92	5.22	
32	AR166006	WAR100222-60	03/01/10	1753	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.

page 2 of 3

FORM VIII PEST

OLM03.0

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.: 10-1972

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	PIBLK07	WAR100219-99	03/01/10	1806	1.92	5.22
02	PBLK01	1202055156	03/01/10	1816	1.92	5.22
03	PBLK01LCS	1202055157	03/01/10	1829	1.92	5.22
04	RE15-10-8259	247767001	03/01/10	1841	1.92	5.22
05	RE15-10-8261	247767002	03/01/10	1854	1.92	5.22
06	RE15-10-8257	247767003	03/01/10	1907	1.92	5.22
07	RE15-10-8260	247767004	03/01/10	1919	1.92	5.22
08	RE15-10-8258	247767005	03/01/10	1932	1.92	5.22
09	RE15-10-8263	247767006	03/01/10	1944	1.92	5.22
10	RE15-10-8255	247767007	03/01/10	1957	1.92	5.22
11	RE15-10-8256	247767008	03/01/10	2010	1.92	5.22
12	AR166007	WAR100222-60	03/01/10	2022	1.92	5.22
13	PIBLK08	WAR100219-99	03/01/10	2035	1.92	5.22
14	RE15-10-8262	247767009	03/01/10	2048	1.92	5.22
15	RE15-10-8265	247767010	03/01/10	2100	1.92	5.22
16	RE15-10-8269	247767011	03/01/10	2113	1.92	5.22
17	AR166008	WAR100222-60	03/01/10	2126	1.92	5.22
18	PIBLK09	WAR100219-99	03/01/10	2138	1.92	5.22
19	ZZZZZ	ZZZZZ	03/01/10	2151	1.92	5.22
20	ZZZZZ	ZZZZZ	03/01/10	2203	1.92	5.22
21	ZZZZZ	ZZZZZ	03/01/10	2216	1.92	5.22
22	ZZZZZ	ZZZZZ	03/01/10	2229	1.92	5.22
23	ZZZZZ	ZZZZZ	03/01/10	2241	1.92	5.22
24	ZZZZZ	ZZZZZ	03/01/10	2254	1.92	5.22
25	ZZZZZ	ZZZZZ	03/01/10	2306	1.92	5.22
26	ZZZZZ	ZZZZZ	03/01/10	2319	1.92	5.22
27	AR166009	WAR100222-60	03/01/10	2332	1.92	5.22
28	PIBLK10	WAR100219-99	03/01/10	2344	1.92	5.22
29						
30						
31						
32						

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.: 10-1972

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	03/01/10	0535	2.27	5.92
02	ZZZZZ	ZZZZZ	03/01/10	0546	2.28	5.92
03	AR125401	WAR100219-54	03/01/10	0556		
04	AR124201	WAR100219-42	03/01/10	0607		
05	AR124801	WAR100223-48	03/01/10	0617		
06	AR166001	WAR100222-60	03/01/10	0628	2.28	5.92
07	AR126801	WAR100107-68	03/01/10	0638		
08	AR123201	WAR100104-32	03/01/10	0649		
09	AR122101	WAR100104-21	03/01/10	0659		
10	AR126201	WAR100104-62	03/01/10	0710		
11	DDTANALOGSTD	WAR091219-DD	03/01/10	0720		
12	PIBLK02	WAR100219-99	03/01/10	0731	2.28	5.92
13	ZZZZZ	ZZZZZ	03/01/10	0741	2.28	5.92
14	ZZZZZ	ZZZZZ	03/01/10	0752	2.28	5.92
15	ZZZZZ	ZZZZZ	03/01/10	0802	2.28	5.92
16	ZZZZZ	ZZZZZ	03/01/10	0813	2.28	5.92
17	AR166002	WAR100222-60	03/01/10	0825	2.28	5.92
18	PIBLK03	WAR100219-99	03/01/10	0836	2.28	5.92
19	ZZZZZ	ZZZZZ	03/01/10	0847	2.28	5.92
20	ZZZZZ	ZZZZZ	03/01/10	0857	2.28	5.92
21	ZZZZZ	ZZZZZ	03/01/10	0907	2.30	5.93
22	ZZZZZ	ZZZZZ	03/01/10	0920	2.30	5.92
23	ZZZZZ	ZZZZZ	03/01/10	0933	2.30	5.92
24	ZZZZZ	ZZZZZ	03/01/10	0945	2.30	5.92
25	ZZZZZ	ZZZZZ	03/01/10	0958	2.30	5.92
26	ZZZZZ	ZZZZZ	03/01/10	1010	2.29	5.92
27	ZZZZZ	ZZZZZ	03/01/10	1023	2.28	5.92
28	ZZZZZ	ZZZZZ	03/01/10	1036	2.30	5.92
29	AR166003	WAR100222-60	03/01/10	1048	2.28	5.92
30	PIBLK04	WAR100219-99	03/01/10	1059	2.28	5.92
31	ZZZZZ	ZZZZZ	03/01/10	1109	2.30	5.92
32	ZZZZZ	ZZZZZ	03/01/10	1122	2.30	5.93

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.: 10-1972

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	03/01/10	1135	2.30	5.92	
02	ZZZZZ	ZZZZZ	03/01/10	1147	2.30	5.92	
03	ZZZZZ	ZZZZZ	03/01/10	1200	2.29	5.92	
04	AR166003	WAR100222-60	03/01/10	1212	2.28	5.92	
05	PIBLK04	WAR100219-99	03/01/10	1223	2.28	5.92	
06	ZZZZZ	ZZZZZ	03/01/10	1233	2.28	5.92	
07	ZZZZZ	ZZZZZ	03/01/10	1244	2.28	5.92	
08	ZZZZZ	ZZZZZ	03/01/10	1255	2.28	5.92	
09	ZZZZZ	ZZZZZ	03/01/10	1307	2.28	5.92	
10	ZZZZZ	ZZZZZ	03/01/10	1320	2.28	5.92	
11	ZZZZZ	ZZZZZ	03/01/10	1332	2.28	5.92	
12	ZZZZZ	ZZZZZ	03/01/10	1345	2.28	5.92	
13	ZZZZZ	ZZZZZ	03/01/10	1358	2.28	5.92	
14	ZZZZZ	ZZZZZ	03/01/10	1410	2.28	5.92	
15	ZZZZZ	ZZZZZ	03/01/10	1423	2.28	5.92	
16	AR166004	WAR100222-60	03/01/10	1435	2.28	5.92	
17	PIBLK05	WAR100219-99	03/01/10	1446	2.28	5.92	
18	ZZZZZ	ZZZZZ	03/01/10	1456	2.28	5.92	
19	ZZZZZ	ZZZZZ	03/01/10	1509	2.28	5.92	
20	ZZZZZ	ZZZZZ	03/01/10	1521	2.28	5.92	
21	ZZZZZ	ZZZZZ	03/01/10	1534	2.28	5.92	
22	ZZZZZ	ZZZZZ	03/01/10	1547	2.28	5.92	
23	AR166005	WAR100222-60	03/01/10	1559	2.28	5.92	
24	PIBLK06	WAR100219-99	03/01/10	1612	2.28	5.92	
25	ZZZZZ	ZZZZZ	03/01/10	1625	2.28	5.92	
26	ZZZZZ	ZZZZZ	03/01/10	1637	2.28	5.92	
27	ZZZZZ	ZZZZZ	03/01/10	1650	2.28	5.92	
28	ZZZZZ	ZZZZZ	03/01/10	1703	2.28	5.92	
29	ZZZZZ	ZZZZZ	03/01/10	1715	2.28	5.92	
30	ZZZZZ	ZZZZZ	03/01/10	1728	2.28	5.92	
31	ZZZZZ	ZZZZZ	03/01/10	1740	2.28	5.92	
32	AR166006	WAR100222-60	03/01/10	1753	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.

page 2 of 3

FORM VIII PEST

OLM03.0

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.: 10-1972

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	PIBLK07	WAR100219-99	03/01/10	1806	2.28	5.92
02	PBLK01	1202055156	03/01/10	1816	2.28	5.92
03	PBLK01LCS	1202055157	03/01/10	1829	2.28	5.92
04	RE15-10-8259	247767001	03/01/10	1841	2.28	5.92
05	RE15-10-8261	247767002	03/01/10	1854	2.28	5.92
06	RE15-10-8257	247767003	03/01/10	1907	2.28	5.92
07	RE15-10-8260	247767004	03/01/10	1919	2.28	5.92
08	RE15-10-8258	247767005	03/01/10	1932	2.28	5.92
09	RE15-10-8263	247767006	03/01/10	1944	2.28	5.92
10	RE15-10-8255	247767007	03/01/10	1957	2.28	5.92
11	RE15-10-8256	247767008	03/01/10	2010	2.28	5.92
12	AR166007	WAR100222-60	03/01/10	2022	2.28	5.92
13	PIBLK08	WAR100219-99	03/01/10	2035	2.28	5.92
14	RE15-10-8262	247767009	03/01/10	2048	2.28	5.92
15	RE15-10-8265	247767010	03/01/10	2100	2.28	5.92
16	RE15-10-8269	247767011	03/01/10	2113	2.28	5.92
17	AR166008	WAR100222-60	03/01/10	2126	2.28	5.92
18	PIBLK09	WAR100219-99	03/01/10	2138	2.28	5.92
19	ZZZZZ	ZZZZZ	03/01/10	2151	2.28	5.92
20	ZZZZZ	ZZZZZ	03/01/10	2203	2.28	5.92
21	ZZZZZ	ZZZZZ	03/01/10	2216	2.28	5.92
22	ZZZZZ	ZZZZZ	03/01/10	2229	2.28	5.92
23	ZZZZZ	ZZZZZ	03/01/10	2241	2.28	5.92
24	ZZZZZ	ZZZZZ	03/01/10	2254	2.28	5.92
25	ZZZZZ	ZZZZZ	03/01/10	2306	2.28	5.92
26	ZZZZZ	ZZZZZ	03/01/10	2319	2.28	5.92
27	AR166009	WAR100222-60	03/01/10	2332	2.28	5.92
28	PIBLK10	WAR100219-99	03/01/10	2344	2.28	5.92
29						
30						
31						
32						

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: 10-1972

Client ID: LCS for batch 958311

Lab Sample ID: 1202055157

Data File: 067f6701.d

Data File: 067b6701.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 01-MAR-10 18:29

Analyzed: 01-MAR-10 18:29

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.803
Column 1	1	2.37	2.34 - 2.4	18.9		ug/kg	
	2	2.66	2.63 - 2.69	19.7		ug/kg	
	3	2.74	2.71 - 2.77	19.4		ug/kg	
	4	2.78	2.75 - 2.81	19.8		ug/kg	
	5	2.99	2.96 - 3.02	20.4		ug/kg	
					19.6		
Column 2	1	3.17	3.14 - 3.2	19.8		ug/kg	
	2	3.25	3.23 - 3.29	19.3		ug/kg	
	3	3.32	3.29 - 3.35	19.4		ug/kg	
	4	3.55	3.52 - 3.58	20.4		ug/kg	
	5	3.62	3.59 - 3.65	20.1		ug/kg	
					19.8		
Aroclor-1260							8.85
Column 1	1	3.71	3.68 - 3.74	23.7		ug/kg	
	2	3.87	3.85 - 3.91	25.9		ug/kg	
	3	4.04	4.01 - 4.07	26.4		ug/kg	
	4	4.1	4.08 - 4.14	26		ug/kg	
	5	4.25	4.22 - 4.28	26.8		ug/kg	
					25.8		
Column 2	1	4.31	4.28 - 4.34	22.2		ug/kg	
	2	4.44	4.41 - 4.47	23.3		ug/kg	
	3	4.7	4.67 - 4.73	23.5		ug/kg	
	4	4.87	4.85 - 4.91	23.9		ug/kg	
	5	5.02	4.99 - 5.05	24.9		ug/kg	
					23.6		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972

Lab Sample ID: 1202055156

Client Sample: QC for batch 958311

Client ID: MB for batch 958311

Batch ID: 958315

Run Date: 03/01/2010 18:16

Prep Date: 02/27/2010 10:30

Data File: 066f6601-1.d

066b6601-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

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	3.33	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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/066f6601.d
 Lab Smp Id: 1202055156 Client Smp ID: PBLK01
 Inj Date : 01-MAR-2010 18:16
 Operator : YS1 Inst ID: ecdl1a.i
 Smp Info : |1202055156|1|
 Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
 Meth Date : 02-Mar-2010 06:43 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 66 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1972.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclpl

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

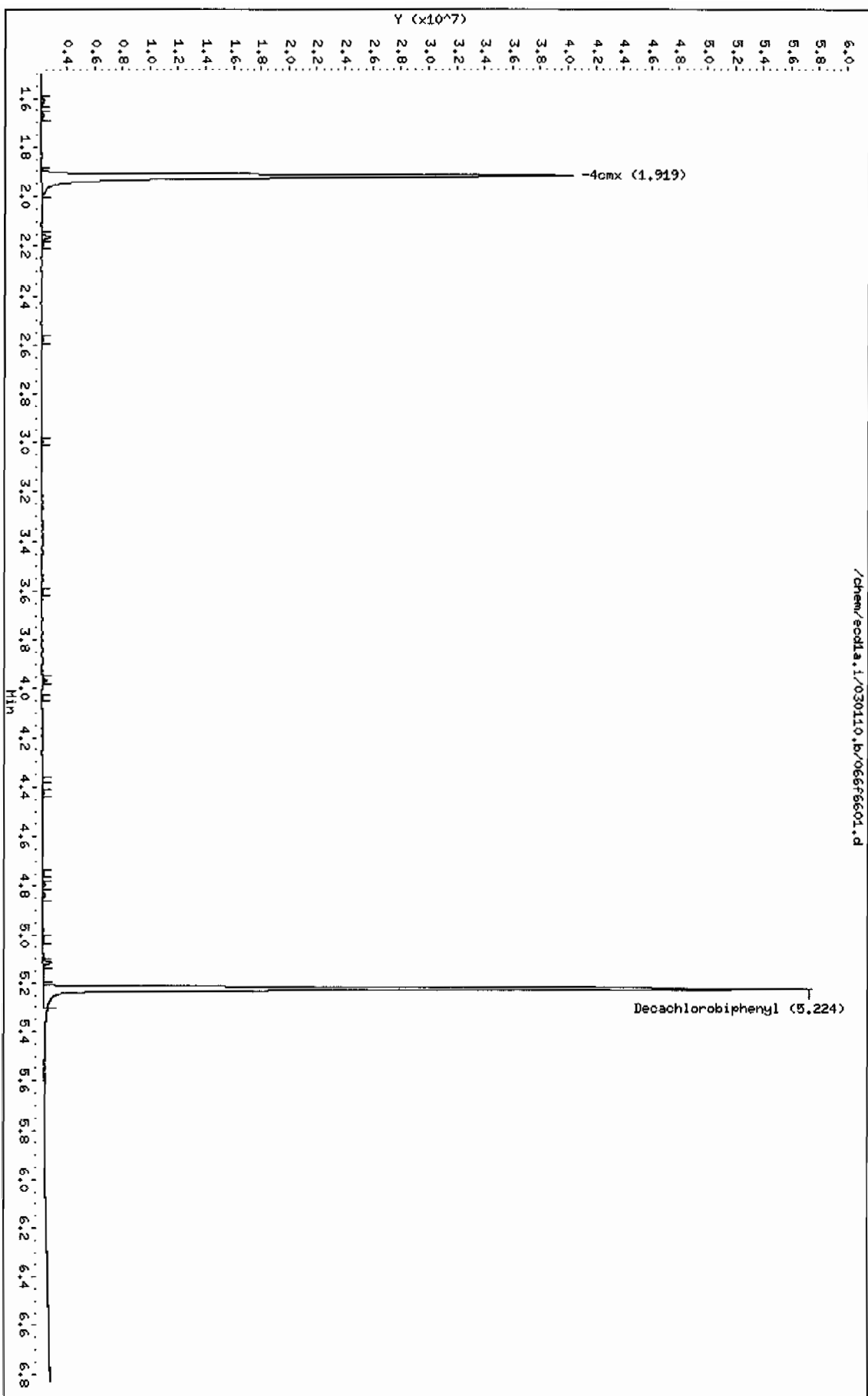
Cpnd Variable Local Compound Variable

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8				
1.919	1.919	0.000	42080358	97.7166	3.2	80.00-	120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
5.224	5.227	-0.003	44939805	146.246	4.9	80.00-	120.00	100.00	

Data File: /chem/eod1a.i/030110.b/066f6601.d
Date : 01-MAR-2010 18:16
Client ID: PBLK01
Sample Info: 1120205515611
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdla.i/030110.b/066b6601.d
Report Date: 02-Mar-2010 06:43

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/030110.b/066b6601.d
Lab Smp Id: 1202055156 Client Smp ID: PBLK01
Inj Date : 01-MAR-2010 18:16
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202055156|1|
Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 06:43 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 66 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1972.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	

				GAS #: 877-09-8			
2.278	2.278	0.000	29094895	97.8319	3.3 80.00- 120.00	100.00	

				CAS #: 2051-24-3			
5.919	5.923	-0.004	28032286	132.541	4.4 80.00- 120.00	100.00	

Data File: /chem/ecdl1.i/030110.b/06b6601.d

Date : 01-MAR-2010 18:16

Client ID: PBLK01

Sample Info: 1120205515611

Volume Injected (uL): 1.0

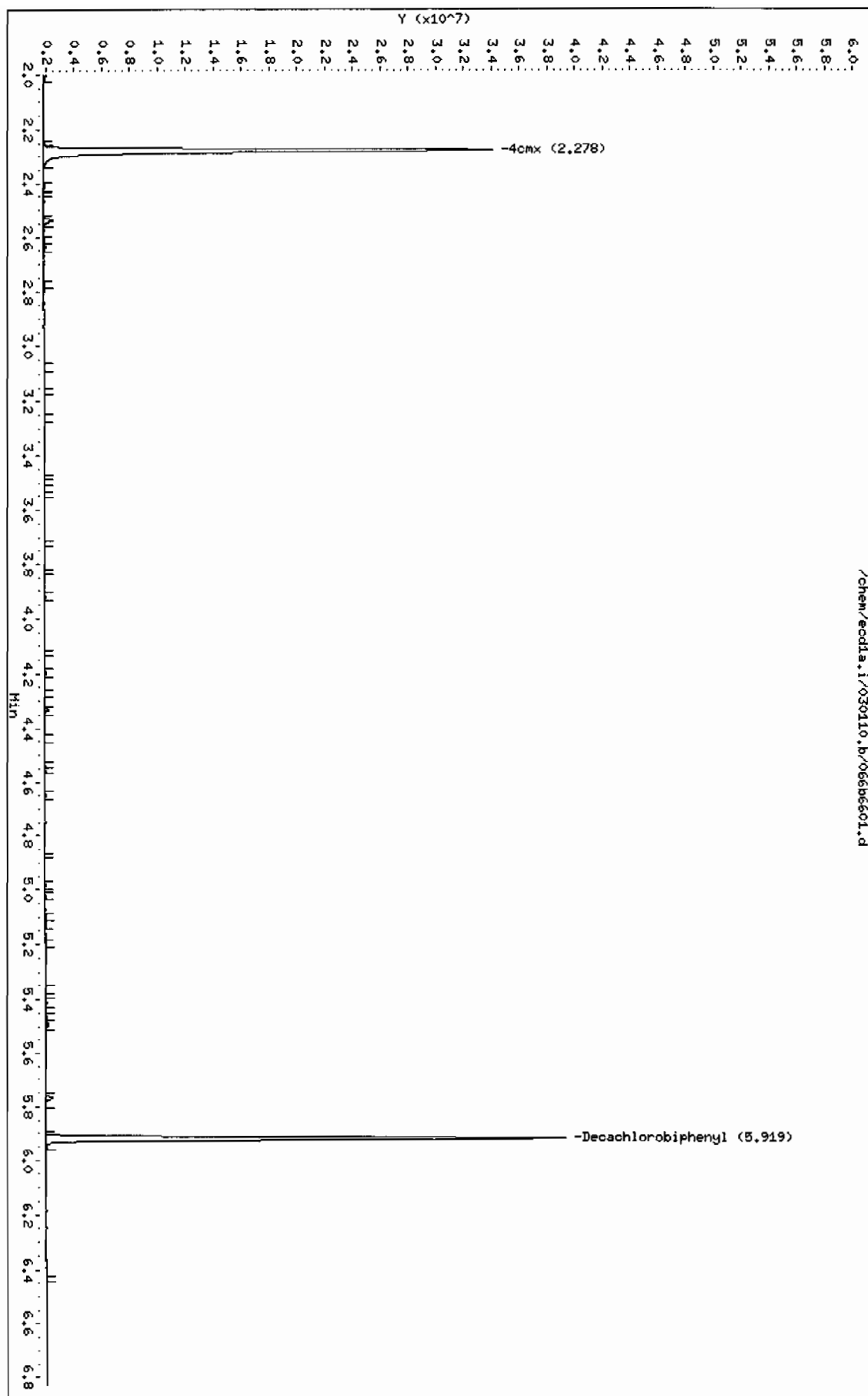
Column phase: CLP2

Instrument: ecdl1.i

Operator: YSI

Column diameter: 0.25

/chem/ecdl1.i/030110.b/06b6601.d



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1972

Lab Sample ID: 1202055157

Client Sample: QC for batch 958311

Client ID: LCS for batch 958311

Batch ID: 958315

Run Date: 03/01/2010 18:29

Prep Date: 02/27/2010 10:30

Data File: 067f6701-1.d

067b6701-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

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		19.8	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		25.8	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/067f6701.d

Lab Smp Id: 1202055157

Client Smp ID: PBLK01LCS

Inj Date : 01-MAR-2010 18:29

Operator : YS1

Inst ID: ecdla.i

Smp Info : |1202055157|1|

Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|LCS|1|

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 67

QC Sample: LCS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1972.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	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

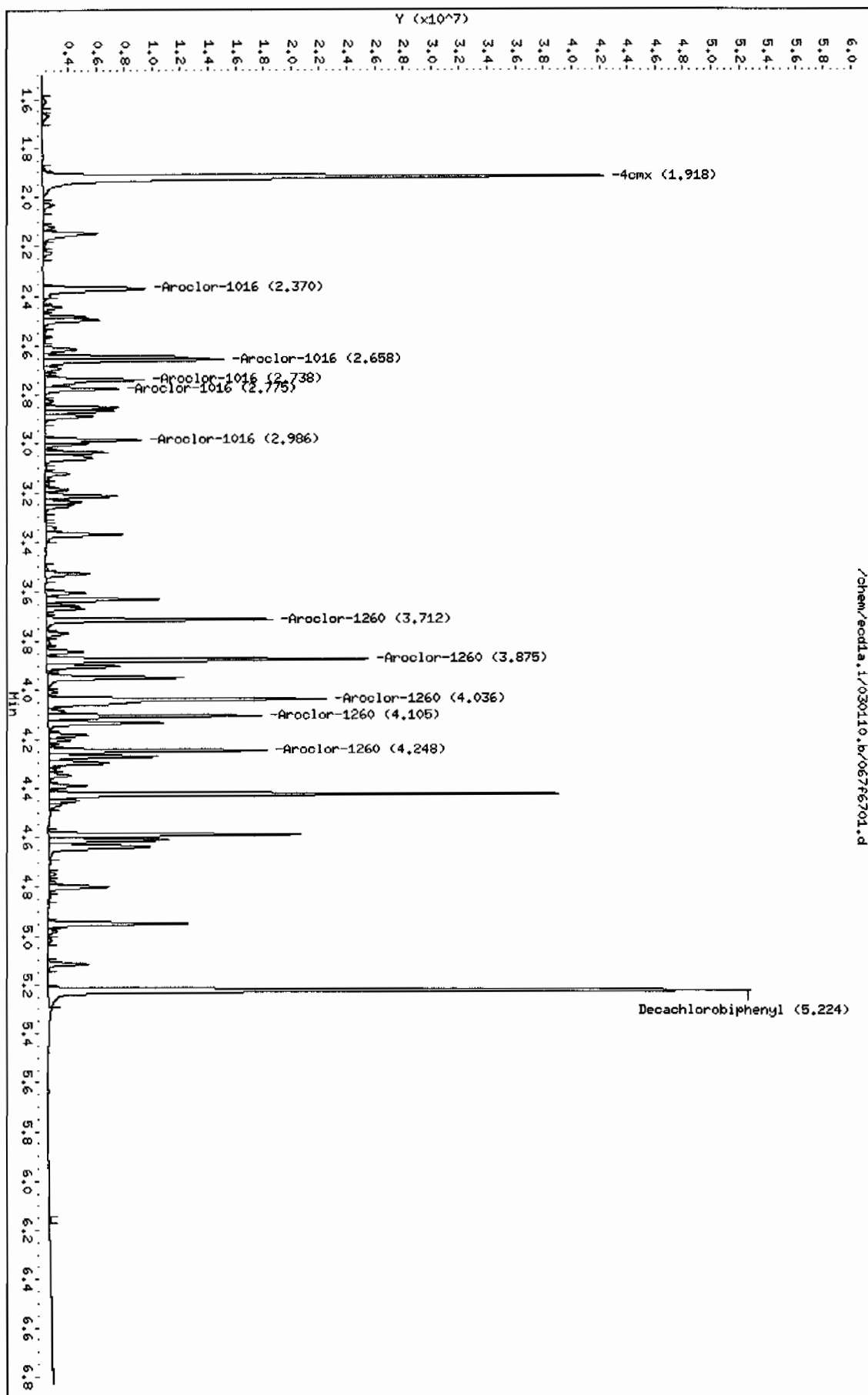
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8				
1.918	1.919	-0.001	43736880	101.563	3.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.224	5.227	-0.003	40334915	131.260	4.4	80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2				
2.370	2.373	-0.003	8708369	566.054	18.9	80.00- 120.00	100.00
2.658	2.659	-0.001	10784634	591.360	19.7	110.29- 150.29	123.84
2.738	2.740	-0.002	7031348	582.766	19.4	62.85- 102.85	80.74
2.775	2.778	-0.003	4222361	595.025	19.8	29.99- 69.99	48.49

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
2.986	2.988	-0.002	5441545	610.573	20.4	43.89-	83.89	62.49
Average of Peak Concentrations =					19.6			

7 Aroclor-1260					CAS #: 11096-82-5			
3.712	3.714	-0.002	12130264	710.518	23.7	80.00-	120.00	100.00
3.875	3.877	-0.002	18360474	776.556	25.9	129.88-	169.88	151.36
4.036	4.039	-0.003	19801543	792.971	26.4	140.76-	180.76	163.24
4.105	4.107	-0.002	11251524	781.048	26.0	70.44-	110.44	92.76
4.248	4.250	-0.002	11595808	803.561	26.8	74.18-	114.18	95.59
Average of Peak Concentrations =					25.8			

Data File: /chem/ecdl1a.i/030110.b/0676701.d
Date : 01-MAR-2010 18:29
Client ID: PRLK011CS
Sample Info: 1120205515711
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/030110.b/067b6701.d
 Lab Smp Id: 1202055157 Client Smp ID: PBLK01LCS
 Inj Date : 01-MAR-2010 18:29
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202055157|1|
 Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 67 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1972.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						
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL FINAL (ug/Kg)	TARGET RANGE	RATIO
=====						
\$ 11 4cmx				CAS #: 877-09-8		
2.277	2.278	-0.001	29961937 100.747	3.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.919	5.923	-0.004	27059056 127.940	4.3	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.172	3.174	-0.002	7601463 594.339	19.8	80.00- 120.00	100.00 (M)
3.255	3.257	-0.002	5166993 579.394	19.3	46.21- 86.21	67.97
3.318	3.320	-0.002	3146519 582.041	19.4	21.43- 61.43	41.39
3.545	3.547	-0.002	4228574 611.451	20.4	34.00- 74.00	55.63

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	3869864	602.294	20.1	30.00-	70.00	50.91
Average of Peak Concentrations					19.8			

7 Aroclor-1260					CAS #: 11096-82-5			
4.311	4.314	-0.003	8789758	665.606	22.2	80.00-	120.00	100.00
4.435	4.439	-0.004	10896302	699.970	23.3	102.19-	142.19	123.97
4.701	4.704	-0.003	8354454	705.404	23.5	72.10-	112.10	95.05
4.875	4.878	-0.003	8760927	718.039	23.9	76.28-	116.28	99.67
5.022	5.024	-0.002	19847890	748.210	24.9	194.82-	234.82	225.81
Average of Peak Concentrations					23.6			

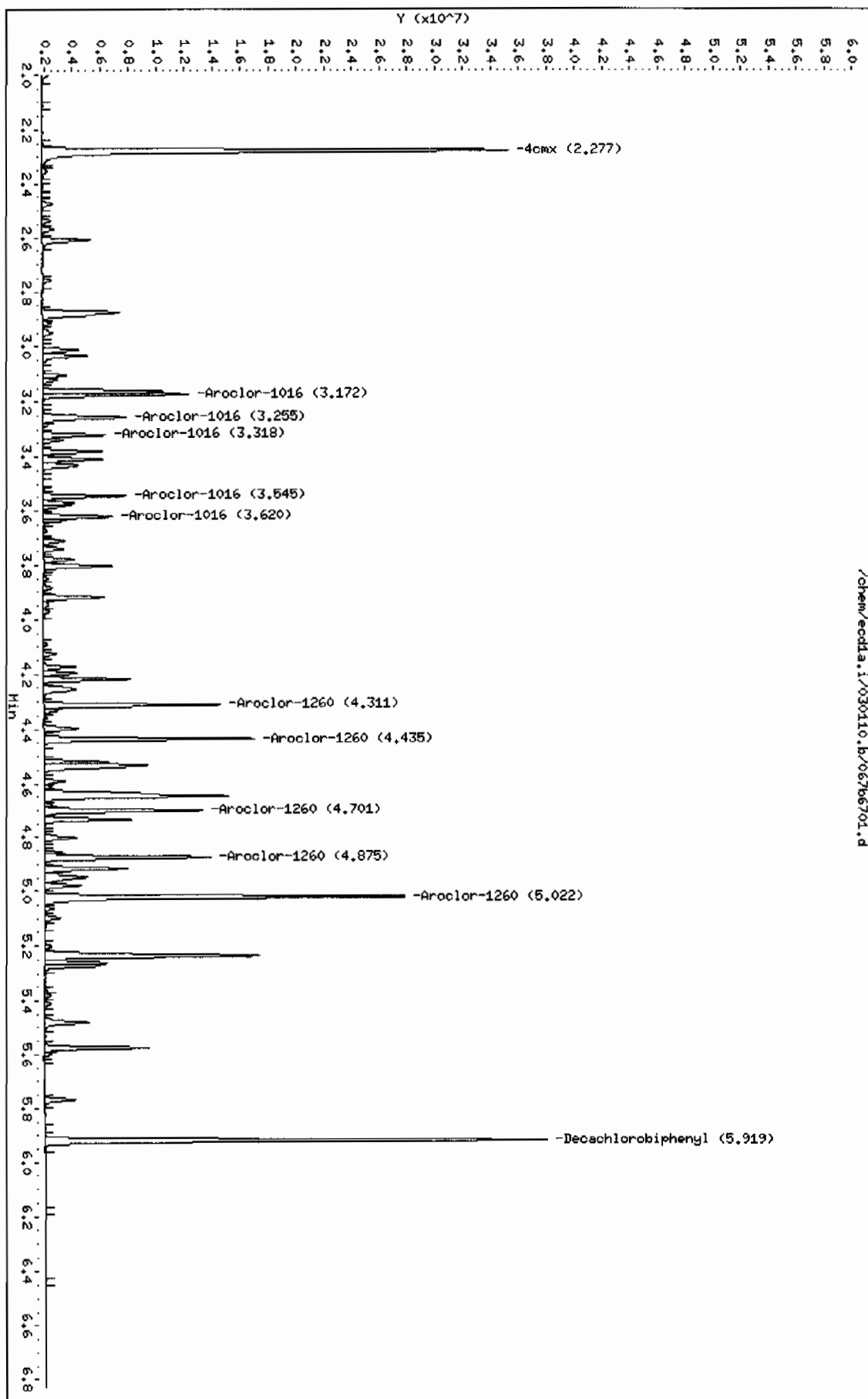
QC Flag Legend

M - Compound response manually integrated.

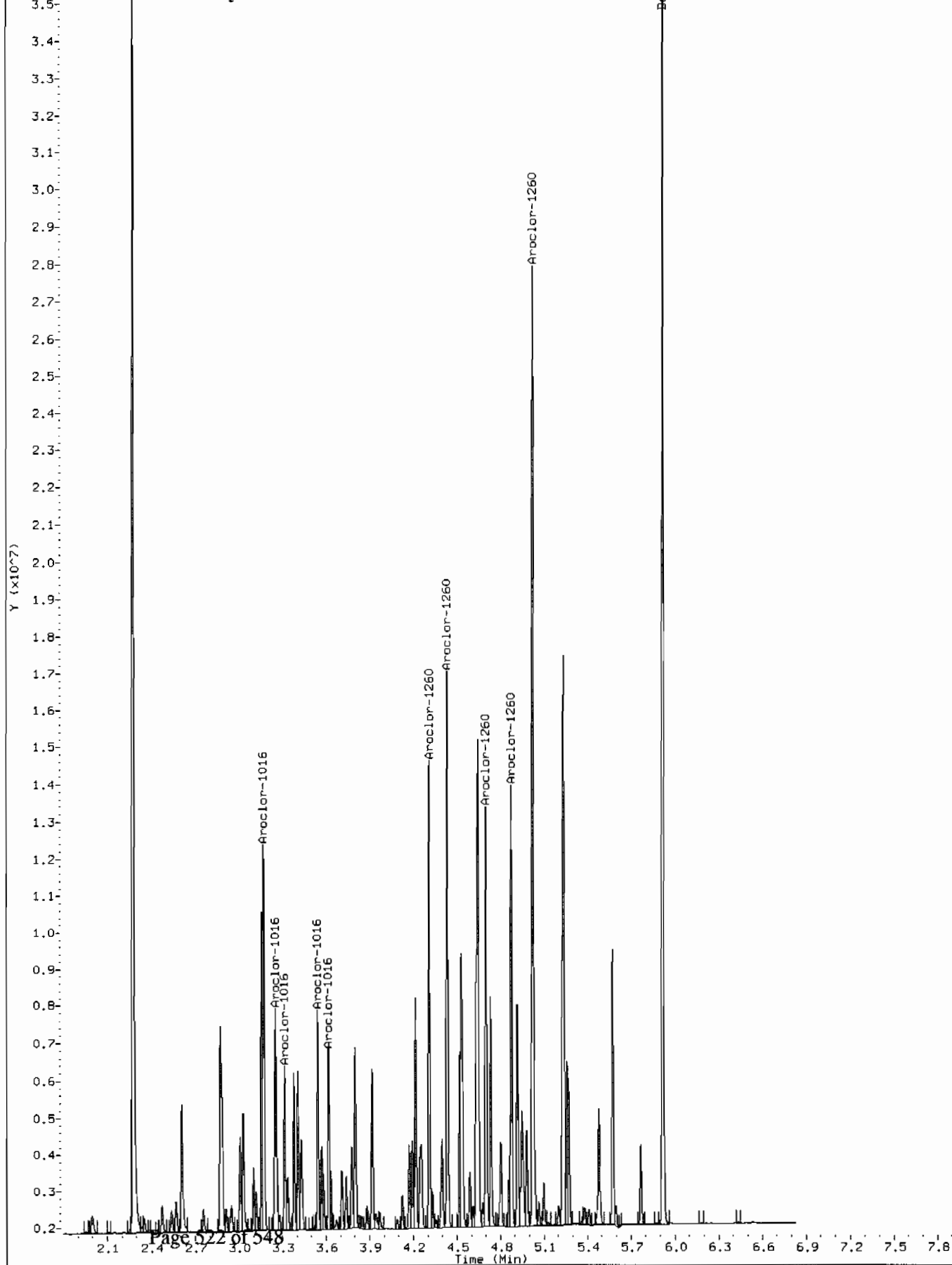
Data File: /chem/ecdl1a.i/030110.b/067b6701.d
Date: 01-MAR-2010 18:29
Client ID: PBLK01LCS
Sample Info: 1120205515711
Volume Injected (ul): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

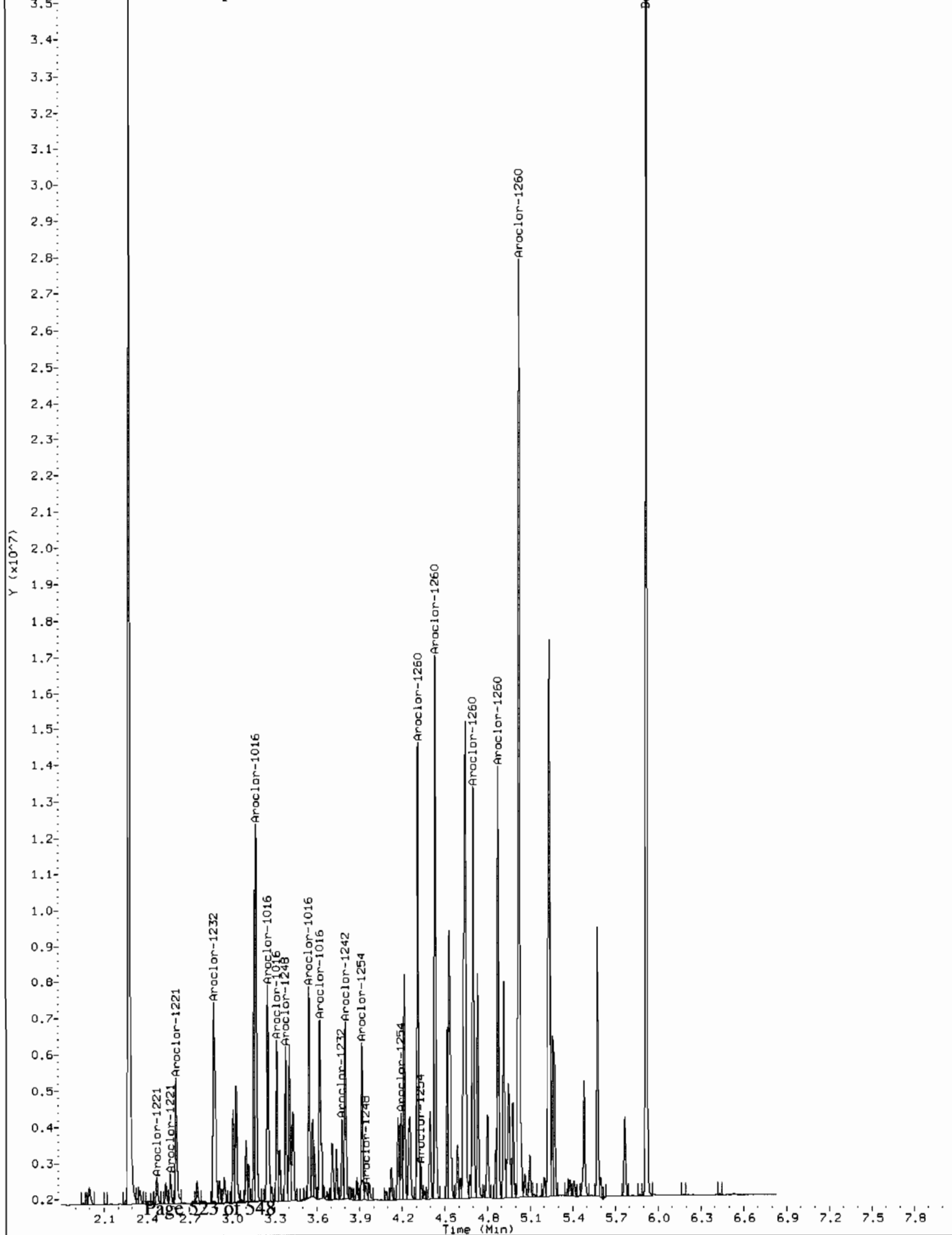
/chem/ecdl1a.i/030110.b/067b6701.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030110.b/067b6701.d
Operator: YS1
Injection Date: 01-MAR-2010 18:29
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



Comment: Before manual integration
Data File: /chem/ecdla.i/030110.b/orig-067b6701.d
Operator: YS1
Injection Date: 01-MAR-2010 18:29
Instrument: ecdla.i
Client Sample ID: PBLK01LCS



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/23/2010 METHOD: ECD1-F-8082-022210.m OPERATOR:YS1 REVIEWED BY: _____
 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	22-FEB-2010 05:59		022210	1.0	CLEAN	
002f0201.d	WAR100203-60 01	YS1	22-FEB-2010 06:10		022210	1.0	HOUSE RE-CAL	
003f0301.d	ARI1660-4	YS1	22-FEB-2010 06:20		022210	1.0	HOUSE SCREEN	
004f0401.d	WAR091219-DDT	YS1	22-FEB-2010 06:31		022210	1.0	DDT ANALOG STANDARD	
005f0501.d	WAR100104-32	YS1	22-FEB-2010 06:41		022210	1.0	PATTERN ONLY	
006f0601.d	WAR100104-21	YS1	22-FEB-2010 06:52		022210	1.0	PATTERN ONLY	
007f0701.d	WAR100104-62	YS1	22-FEB-2010 07:03		022210	1.0	PATTERN ONLY	
008f0801.d	WAR100222-01 60	YS1	22-FEB-2010 07:13		022210	1.0	ARI1660 I-CAL LEVEL 1	
009f0901.d	WAR100222-02 60	YS1	22-FEB-2010 07:24		022210	1.0	ARI1660 I-CAL LEVEL 2	
010f1001.d	WAR100222-03 60	YS1	22-FEB-2010 07:34		022210	1.0	ARI1660 I-CAL LEVEL 3	
011f1101.d	WAR100222-04 60	YS1	22-FEB-2010 07:45		022210	1.0	ARI1660 I-CAL LEVEL 4	
012f1201.d	ARI100104-01	YS1	22-FEB-2010 07:55		022210	1.0	ARI1660 I-CAL LEVEL 5	
013f1301.d	WAR100203-60 01	YS1	22-FEB-2010 08:06		022210	1.0	PASSED ON BOTH COLUMNS	
014f1401.d	WAR100222-05 54	YS1	22-FEB-2010 08:16		022210	1.0	ARI1254 I-CAL LEVEL 1	
015f1501.d	WAR100222-06 54	YS1	22-FEB-2010 08:27		022210	1.0	ARI1254 I-CAL LEVEL 2	

Page: 1

Instrument Batch: /chem/ecd1a.i/022210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1501.d	WAR100222-07 54	YS1	22-FEB-2010 08:37		022210		1.0		ARI254 I-CAL LEVEL 3
1017f1791.d	WAR100222-08 54	YS1	22-FEB-2010 08:48		022210		1.0		ARI254 I-CAL LEVEL 4
1018f1801.d	WAR100219-02	YS1	22-FEB-2010 08:59		022210		1.0		ARI254 I-CAL LEVEL 5
1019f1901.d	WAR100219-54	YS1	22-FEB-2010 09:09		022210		1.0		PASSED ON BOTH COLUMNS
1020f2001.d	WAR100222-09 42	YS1	22-FEB-2010 09:20		022210		1.0		ARI242 I-CAL LEVEL 1
1021f2101.d	WAR100222-10 42	YS1	22-FEB-2010 09:30		022210		1.0		ARI242 I-CAL LEVEL 2
1022f2201.d	WAR100222-11 42	YS1	22-FEB-2010 09:41		022210		1.0		ARI242 I-CAL LEVEL 3
1023f2301.d	WAR100222-12 42	YS1	22-FEB-2010 09:51		022210		1.0		ARI242 I-CAL LEVEL 4
1024f2401.d	WAR100219-01	YS1	22-FEB-2010 10:02		022210		1.0		ARI242 I-CAL LEVEL 5
1025f2501.d	WAR100219-42	YS1	22-FEB-2010 10:12		022210		1.0		PASSED ON BOTH COLUMNS
1026f2601.d	WAR100222-13 48	YS1	22-FEB-2010 10:23		022210		1.0		ARI248 I-CAL LEVEL 1
1027f2701.d	WAR100222-14 48	YS1	22-FEB-2010 10:33		022210		1.0		ARI248 I-CAL LEVEL 2
1028f2801.d	WAR100222-15 48	YS1	22-FEB-2010 10:44		022210		1.0		ARI248 I-CAL LEVEL 3
1029f2901.d	WAR100211-01	YS1	22-FEB-2010 10:54		022210		1.0		ARI248 I-CAL LEVEL 5
1030f3001.d	WAR100222-16	YS1	22-FEB-2010 11:05		022210		1.0		ARI248 I-CAL LEVEL 4
1031f3101.d	WAR091217-48	YS1	22-FEB-2010 11:16		022210		1.0		PASSED ON BOTH COLUMNS
1032f3201.d	WAR100222-17 68	YS1	22-FEB-2010 11:26		022210		1.0		ARI268 I-CAL LEVEL 1
1033f3301.d	WAR100222-18 68	YS1	22-FEB-2010 11:37		022210		1.0		ARI268 I-CAL LEVEL 2
1034f3401.d	WAR100222-19 68	YS1	22-FEB-2010 11:47		022210		1.0		ARI268 I-CAL LEVEL 3
1035f3501.d	WAR100222-20 68	YS1	22-FEB-2010 11:58		022210		1.0		ARI268 I-CAL LEVEL 4

Instrument Batch: /chem/ecdl1a.i/022210.b

1036f3601.d	WAR100104-05	YS1	22-FEB-2010 12:08		022210		1.0		ARI268 I-CAL LEVEL 5
1037f3701.d	WAR100107-68	YS1	22-FEB-2010 12:19		022210		1.0		PASSED ON BOTH COLUMNS
1038f3801.d	WAR100219-99 02	YS1	22-FEB-2010 12:29		022210		1.0		CLEAN
1039f3901-1.d	11202046866	YS1	22-FEB-2010 12:40		954781		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
1039f3901-2.d	11202046866	YS1	22-FEB-2010 12:40		954781		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER

1039f3901.d	1202046866	YS1	22-FEB-2010 12:40	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001-1.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1846	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001-2.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1848	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1041f4101.d	1246968001	YS1	22-FEB-2010 13:01	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	1246968002	YS1	22-FEB-2010 13:14	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1043f4301.d	1246968003	YS1	22-FEB-2010 13:26	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1044f4401.d	1246968004	YS1	22-FEB-2010 13:39	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1045f4501.d	246968005	YS1	22-FEB-2010 13:51	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1046f4601.d	1246968006	YS1	22-FEB-2010 14:04	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1047f4701.d	1246968007	YS1	22-FEB-2010 14:17	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1048f4801.d	1246968008	YS1	22-FEB-2010 14:30	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1049f4901.d	WAR100203-60 02	YS1	22-FEB-2010 14:42		1022210	1.0	PASSED ON BOTH COLUMNS
1050f5001.d	WAR100219-99 03	YS1	22-FEB-2010 14:53		1022210	1.0	1 CLEAN
1051f5101.d	1246968009	YS1	22-FEB-2010 15:03	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/022210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1052f5201.d	1246968010	YS1	22-FEB-2010 15:16	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1053f5301.d	1246968011	YS1	22-FEB-2010 15:28	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1054f5401.d	1246968012	YS1	22-FEB-2010 15:41	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1055f5501.d	1246968013	YS1	22-FEB-2010 15:54	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1056f5601.d	1246968014	YS1	22-FEB-2010 16:06	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1057f5701.d	1246968015	YS1	22-FEB-2010 16:19	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1058f5801.d	1246968016	YS1	22-FEB-2010 16:32	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1059f5901.d	1246968017	YS1	22-FEB-2010 16:44	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1060f6001.d	1247121002	YS1	22-FEB-2010 16:57	954781	10-1846	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

1086f8601.d	1247043015	YS1	122-FEB-2010 22:26	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1087f8701.d	1247043016	YS1	122-FEB-2010 22:39	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1088f8801.d	1247043017	YS1	122-FEB-2010 22:51	955479	10-1818	1.0	LANL	SURROGATE LOW RE
1089f8901.d	1247043018	YS1	122-FEB-2010 23:04	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1090f9001.d	1247043019	YS1	122-FEB-2010 23:17	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1091f9101.d	1247043020	YS1	122-FEB-2010 23:29	955479	10-1818	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

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	YS1	122-FEB-2010 23:42	022210	1.0	1.0	LANL	USE SCREEN
1093f9301.d	11660-4	YS1	122-FEB-2010 23:55	022210	1.0	1.0	LANL	USE SCREEN

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 03/02/2010 METHOD: ECD1-F-8082-022210.m OPERATOR:YS1 REVIEWED BY: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 DATE: _____

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/ecdl1a.i/030110.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f010.d	1WARI00219-99 01	YS1	01-MAR-2010 05:35		030110	1.0		CLEAN
1002f0201.d	1WARI00222-60 01	YS1	01-MAR-2010 05:46		030110	1.0		DOSE RR FILE 5
1003f0301.d	1WARI00219-54	YS1	01-MAR-2010 05:56		030110	1.0		PASSED ON BOTH COLUMNS
1004f0401.d	1WARI00219-42	YS1	01-MAR-2010 06:07		030110	1.0		PASSED ON BOTH COLUMNS
1005f0501.d	1WARI00223-48	YS1	01-MAR-2010 06:17		030110	1.0		PASSED ON BOTH COLUMNS
1006f0601.d	1WARI00222-60 01	YS1	01-MAR-2010 06:28		030110	1.0		PASSED ON BOTH COLUMNS
1007f0701.d	1WARI00107-68	YS1	01-MAR-2010 06:38		030110	1.0		PASSED ON BOTH COLUMNS
1008f0801.d	1WARI00104-32	YS1	01-MAR-2010 06:49		030110	1.0		PATTERN ONLY
1009f0901.d	1WARI00104-21	YS1	01-MAR-2010 06:59		030110	1.0		PATTERN ONLY
1010f1001.d	1WARI00104-62	YS1	01-MAR-2010 07:10		030110	1.0		PATTERN ONLY
1011f1101.d	1WARI01219-DDT	YS1	01-MAR-2010 07:20		030110	1.0		DDT ANALOG STANDARD
1012f1201.d	1WARI00219-99 02	YS1	01-MAR-2010 07:31		030110	1.0		CLEAN
1013f1301.d	1202055253	YS1	01-MAR-2010 07:41	958351	030110	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1014f1401.d	1202055254	YS1	01-MAR-2010 07:52	958351		1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1015f1501.d	1202055257	YS1	01-MAR-2010 08:02	958351		1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/030110.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1601.d	247750003	YS1	01-MAR-2010 08:13	958351	MWR09-053	1.0	PAES	UPLOAD BOTH COLUMNS, USE HIGHER
1017f1701.d	WAR100222-60 02	YS1	01-MAR-2010 08:25		030110	1.0		PASSED ON BOTH COLUMNS
1018f1801.d	WAR100219-99 03	YS1	01-MAR-2010 08:36		030110	1.0		CLEAN
1019f1901.d	1202055052	YS1	01-MAR-2010 08:47	958272	SP4016	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1020f2001.d	1202055053	YS1	01-MAR-2010 08:57	958272	SP4016	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1021f2101.d	1247573001	YS1	01-MAR-2010 09:07	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1022f2201.d	1202055054	YS1	01-MAR-2010 09:20	958272	SP4016	2.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1023f2301.d	1202055055	YS1	01-MAR-2010 09:33	958272	SP4016	2.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1024f2401.d	1247573002	YS1	01-MAR-2010 09:45	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1025f2501.d	1247573003	YS1	01-MAR-2010 09:58	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1026f2601.d	1247573004	YS1	01-MAR-2010 10:10	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1027f2701.d	1247573005	YS1	01-MAR-2010 10:23	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1028f2801.d	1247573006	YS1	01-MAR-2010 10:36	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1029f2901.d	WAR100222-60 03	YS1	01-MAR-2010 10:48		030110	1.0		PASSED ON BOTH COLUMNS
1030f3001.d	WAR100219-99 04	YS1	01-MAR-2010 10:59		030110	1.0		CLEAN
1031f3101.d	1247573007	YS1	01-MAR-2010 11:09	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1032f3201.d	1247573008	YS1	01-MAR-2010 11:22	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1033f3301.d	1247573009	YS1	01-MAR-2010 11:35	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1034f3401.d	1247573010	YS1	01-MAR-2010 11:47	958272	SP4016	2.0	ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1035f3501.d	1248057001	YS1	01-MAR-2010 12:00	958272	W4556	5.0	LBNL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/030110.b

1036f3601.d	WAR100222-60 03	YS1	01-MAR-2010 12:12		030110	1.0		PASSED ON BOTH COLUMNS
1037f3701.d	WAR100219-99 04	YS1	01-MAR-2010 12:23		030110	1.0		CLEAN
1038f3801.d	1202054828	YS1	01-MAR-2010 12:33	958180	10-1959	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1039f3901.d	1202054829	YS1	01-MAR-2010 12:44	958180	10-1959	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	1247569002	YS1	01-MAR-2010 12:55	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

041f4101.d	1247569003	YS1	01-MAR-2010 13:07	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
042f4201.d	1247569004	YS1	01-MAR-2010 13:20	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
043f4301.d	1247569005	YS1	01-MAR-2010 13:32	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
044f4401.d	1247569006	YS1	01-MAR-2010 13:45	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
045f4501.d	1247569007	YS1	01-MAR-2010 13:58	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
046f4601.d	1247569008	YS1	01-MAR-2010 14:10	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
047f4701.d	1247569009	YS1	01-MAR-2010 14:23	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
048f4801.d	1247569010	YS1	01-MAR-2010 14:35	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	1247569011	YS1	01-MAR-2010 14:46	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
050f5001.d	1247569012	YS1	01-MAR-2010 15:09	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
051f5101.d	1247569013	YS1	01-MAR-2010 15:21	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
052f5201.d	1247569014	YS1	01-MAR-2010 15:34	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
053f5301.d	1247569015	YS1	01-MAR-2010 15:47	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
054f5401.d	1247569016	YS1	01-MAR-2010 16:00	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
055f5501.d	1247569017	YS1	01-MAR-2010 16:12	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
056f5601.d	1247569018	YS1	01-MAR-2010 16:25	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
057f5701.d	1247569019	YS1	01-MAR-2010 16:37	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
058f5801.d	1247569020	YS1	01-MAR-2010 16:50	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
059f5901.d	1247569021	YS1	01-MAR-2010 17:02	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
060f6001.d	1247569022	YS1	01-MAR-2010 17:15	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
061f6101.d	1247569023	YS1	01-MAR-2010 17:28	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
062f6201.d	1247569024	YS1	01-MAR-2010 17:40	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
063f6301.d	1247569025	YS1	01-MAR-2010 17:53	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	1247569026	YS1	01-MAR-2010 18:05	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/030110.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
056f5601.d	1247569027	YS1	01-MAR-2010 16:12	958180	10-1959	1.0	CLEAN	
057f5701.d	1247569028	YS1	01-MAR-2010 16:25	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
058f5801.d	1247569029	YS1	01-MAR-2010 16:37	958180	10-1959	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
059f5901.d	1247569030	YS1	01-MAR-2010 16:50	958180	10-1959	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
060f6001.d	1247569031	YS1	01-MAR-2010 17:02	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
061f6101.d	1247569032	YS1	01-MAR-2010 17:15	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
062f6201.d	1247569033	YS1	01-MAR-2010 17:28	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
063f6301.d	1247569034	YS1	01-MAR-2010 17:40	958180	10-1959	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
064f6401.d	1247569035	YS1	01-MAR-2010 17:53	958180	10-1959	1.0	PASSED ON BOTH COLUMNS	

065f6501.d	00219-99 07	YS1	01-MAR-2010 18:06		030110	1.01	ICLEAN	
066f6601.d	1202055156	YS1	01-MAR-2010 18:16	958315	10-1972	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
067f6701.d	1202055157	YS1	01-MAR-2010 18:29	958315	10-1972	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
068f6801.d	1247767001	YS1	01-MAR-2010 18:44	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
069f6901.d	1247767002	YS1	01-MAR-2010 18:54	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
070f7001.d	1247767003	YS1	01-MAR-2010 19:07	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
071f7101.d	1247767004	YS1	01-MAR-2010 19:19	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
072f7201.d	1247767005	YS1	01-MAR-2010 19:32	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
073f7301.d	1247767006	YS1	01-MAR-2010 19:44	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
074f7401.d	1247767007	YS1	01-MAR-2010 19:57	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
075f7501.d	1247767008	YS1	01-MAR-2010 20:10	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	

Instrument Batch: /chem/ecd1a.i/030110.b

Page: 4

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SSG	Dilution	Client	Comments
076f7601.d	00222-60 07	YS1	01-MAR-2010 20:22		030110	1.01	IPASSED ON BOTH COLUMNS	
077f7701.d	00222-9-99 08	YS1	01-MAR-2010 20:35		030110	1.01	ICLEAN	
078f7801.d	1247767009	YS1	01-MAR-2010 20:48	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
079f7901.d	1247767010	YS1	01-MAR-2010 21:00	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
080f8001.d	1247767011	YS1	01-MAR-2010 21:13	958315	10-1972	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
081f8101.d	00222-60 08	YS1	01-MAR-2010 21:26		030110	1.01	IPASSED ON BOTH COLUMNS	
082f8201.d	00222-9-99 09	YS1	01-MAR-2010 21:38		030110	1.01	ICLEAN	
083f8301.d	1247820002	YS1	01-MAR-2010 21:51	958315	10-1994	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
084f8401.d	1202055158	YS1	01-MAR-2010 22:03	958315	10-1994	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
085f8501.d	1202055159	YS1	01-MAR-2010 22:16	958315	10-1994	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
086f8601.d	1247820003	YS1	01-MAR-2010 22:29	958315	10-1994	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
087f8701.d	1247820004	YS1	01-MAR-2010 22:41	958315	10-1994	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
088f8801.d	1247820005	YS1	01-MAR-2010 22:54	958315	10-1994	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
089f8901.d	1247820006	YS1	01-MAR-2010 23:06	958315	10-1994	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	

1090f9001.d	1247820007	YS1	01-MAR-2010 23:19	958315	10-1994	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
1091f9101.d	1WARI00222-60 09	YS2	01-MAR-2010 23:32		030110	1.0		PASSED ON BOTH COLUMNS	
1092f9201.d	1WARI00219-99 10	YS2	01-MAR-2010 23:44		030110	1.0		CLEAN	

Instrument Batch: /chem/ecd1a.i/030110.b

Page: 5

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/030110.b/084b8401.d
 Lab Smp Id: 1202055158 Client Smp ID: CAPU-10-12535MS
 Inj Date : 01-MAR-2010 22:03
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202055158|1|
 Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 84 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1994.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	30.02000	Weight of sample extracted (g)
M	11.34940	% 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	2.278	-0.001	27534515	92.5851	3.5	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.919	5.923	-0.004	24671087	116.649	4.4	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.172	3.174	-0.002	6977875	545.582	20.5	80.00-	120.00	100.00 (M)
3.254	3.257	-0.003	4676022	524.340	19.7	46.00-	86.00	67.01
3.319	3.320	-0.001	2795450	517.100	19.4	21.30-	61.30	40.06
3.545	3.547	-0.002	3691794	533.833	20.0	33.45-	73.45	52.91

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	3062252	476.599	17.9	29.89-	69.89	53.91	
Average of Peak Concentrations =					19.5				

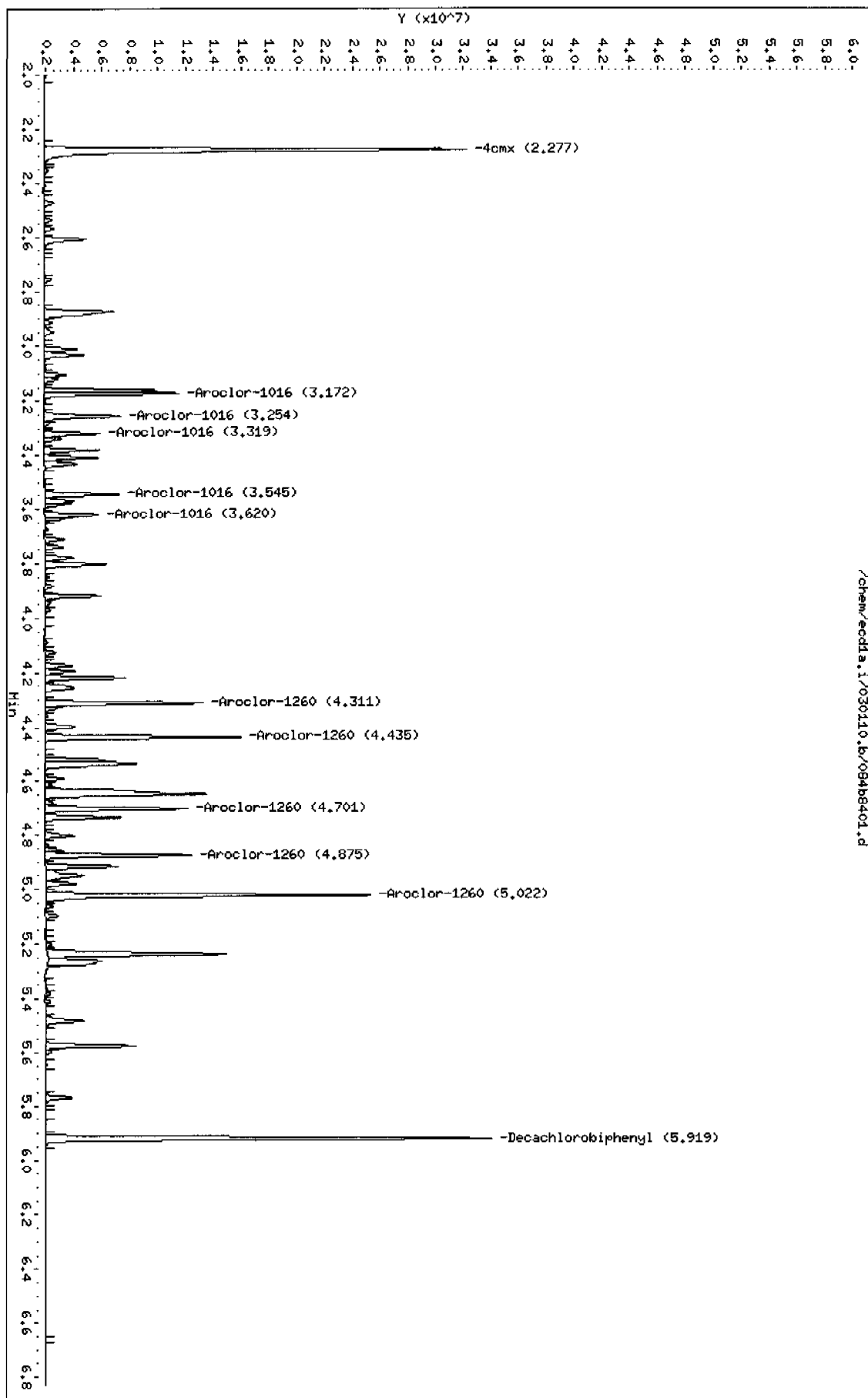
7 Aroclor-1260					CAS #: 11096-82-5				
4.311	4.314	-0.003	8023364	607.571	22.8	80.00-	120.00	100.00	
4.435	4.439	-0.004	9777352	628.089	23.6	102.21-	142.21	121.86	
4.701	4.704	-0.003	7434127	627.697	23.6	72.03-	112.03	92.66	
4.875	4.878	-0.003	7619420	624.482	23.5	75.75-	115.75	94.97	
5.022	5.024	-0.002	17264266	650.814	24.4	194.38-	234.38	215.17	
Average of Peak Concentrations =					23.6				

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1a.i/030110.b/084b8401.d
Date : 01-MAR-2010 22:03
Client ID: CAPU-10-1253SMS
Sample Info: 11202055158141
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030110.b/084f8401.d
Report Date: 02-Mar-2010 07:35

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/084f8401.d
Lab Smp Id: 1202055158 Client Smp ID: CAPU-10-12535MS
Inj Date : 01-MAR-2010 22:03
Operator : YSl Inst ID: ecd1a.i
Smp Info : |1202055158|1|
Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 84 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1994.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	30.02000	Weight of sample extracted (g)
M	11.34940	% 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	1.919	-0.001	39678662	92.1395	3.5 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.223	5.227	-0.004	38901050	126.594	4.8 80.00- 120.00	100.00

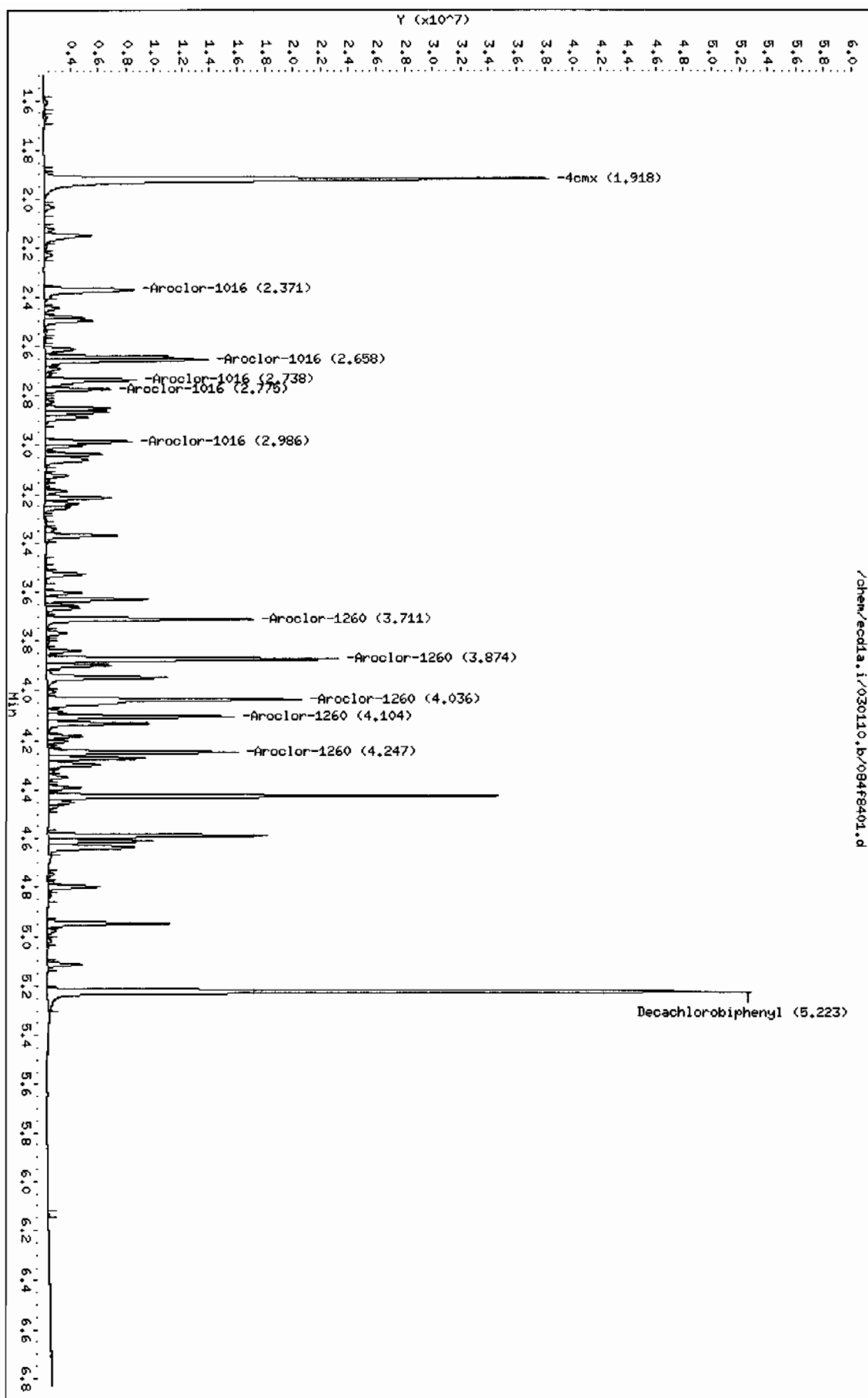
1 Aroclor-1016 CAS #: 12674-11-2						
2.371	2.373	-0.002	7744509	503.402	18.9 80.00- 120.00	100.00
2.658	2.659	-0.001	9924049	544.171	20.4 110.29- 150.29	128.14
2.738	2.740	-0.002	6371309	528.061	19.8 62.85- 102.85	82.27
2.775	2.778	-0.003	3621123	510.297	19.2 29.99- 69.99	46.76

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
---	---	---	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
2.986	2.988	-0.002	4926780	552.813	20.8	43.89-	83.89	63.62	
Average of Peak Concentrations					19.8				

7 Aroclor-1260					CAS #: 11096-82-5				
3.711	3.714	-0.003	11120026	651.344	24.5	80.00-	120.00	100.00	
3.874	3.877	-0.003	16418051	694.402	26.1	129.88-	169.88	147.64	
4.036	4.039	-0.003	17813641	713.364	26.8	140.76-	180.76	160.19	
4.104	4.107	-0.003	9989199	693.421	26.0	70.44-	110.44	89.83	
4.247	4.250	-0.003	9953057	689.722	25.9	74.18-	114.18	89.51	
Average of Peak Concentrations =					25.9				

Data File: /chem/ecdl.a.i/030110.b/084f8401.d
Date : 01-MAR-2010 22:03
Client ID: CAPU-10-12539HS
Sample Info: 1120205515811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/030110.b/085b8501.d
 Lab Smp Id: 1202055159 Client Smp ID: CAPU-10-12535MSD
 Inj Date : 01-MAR-2010 22:16
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202055159|1|
 Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|MSD|
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 85 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1994.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	30.05000	Weight of sample extracted (g)
M	11.34940	% 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		
2.275	2.278	-0.003	30963956	104.117	3.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.918	5.923	-0.005	26203065	123.893	4.6	80.00- 120.00	100.00

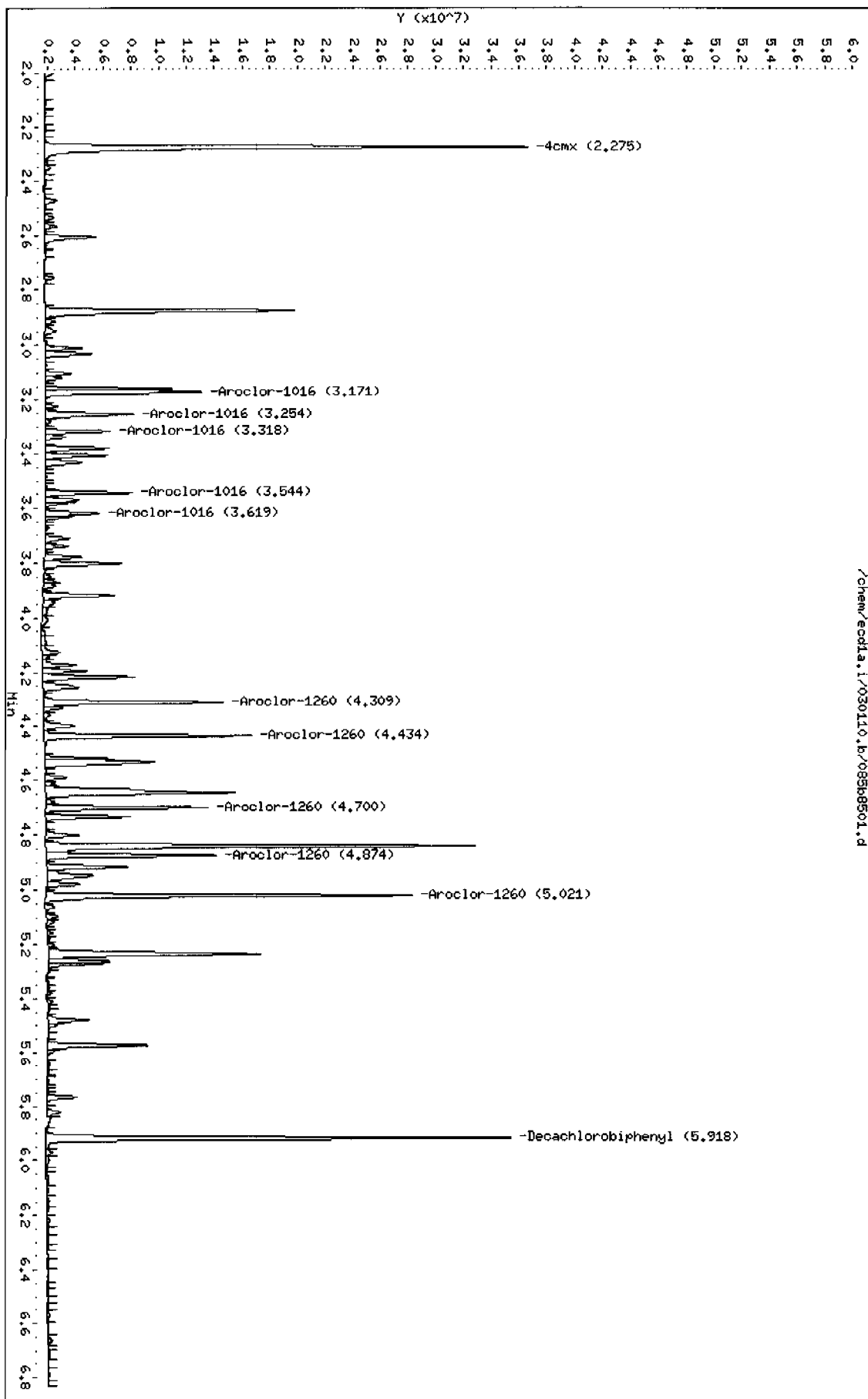
1 Aroclor-1016					CAS #: 12674-11-2		
3.171	3.174	-0.003	8255080	645.443	24.2	80.00- 120.00	100.00
3.254	3.257	-0.003	5418123	607.554	22.8	46.00- 86.00	65.63
3.318	3.320	-0.002	3297719	610.010	22.9	21.30- 61.30	39.95
3.544	3.547	-0.003	4405249	636.998	23.9	33.45- 73.45	53.36

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
----	-----	-----	-----	-----	-----	-----	-----	-----	
1 Aroclor-1016 (continued)									
3.619	3.623	-0.004	3167944	493.049	18.5	29.89-	69.89	38.38	
Average of Peak Concentrations =					22.5				

7 Aroclor-1260					CAS #: 11096-82-5				
4.309	4.314	-0.005	9126657	691.118	25.9	80.00-	120.00	100.00	
4.434	4.439	-0.005	10783111	692.699	26.0	102.21-	142.21	118.15	
4.700	4.704	-0.004	8423344	711.221	26.7	72.03-	112.03	92.29	
4.874	4.878	-0.004	8934714	732.282	27.5	75.75-	115.75	97.90	
5.021	5.024	-0.003	19921964	751.002	28.2	194.38-	234.38	218.28	
Average of Peak Concentrations					26.9				

Data File: /chem/ecdl1a.i/030110.b/085b8501.d
Date: 01-MAR-2010 22:16
Client ID: CAPU-10-12635MSD
Sample Info: 11202055159111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: VSA
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/085f8501.d
 Lab Smp Id: 1202055159 Client Smp ID: CAPU-10-12535MSD
 Inj Date : 01-MAR-2010 22:16
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202055159|1|
 Misc Info : |ECD82P_1S|958315|SVA|QC A|SOIL|MSD|1|
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 85 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1994.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	30.05000	Weight of sample extracted (g)
M	11.34940	% Moisture

Cpnd Variable Local Compound Variable

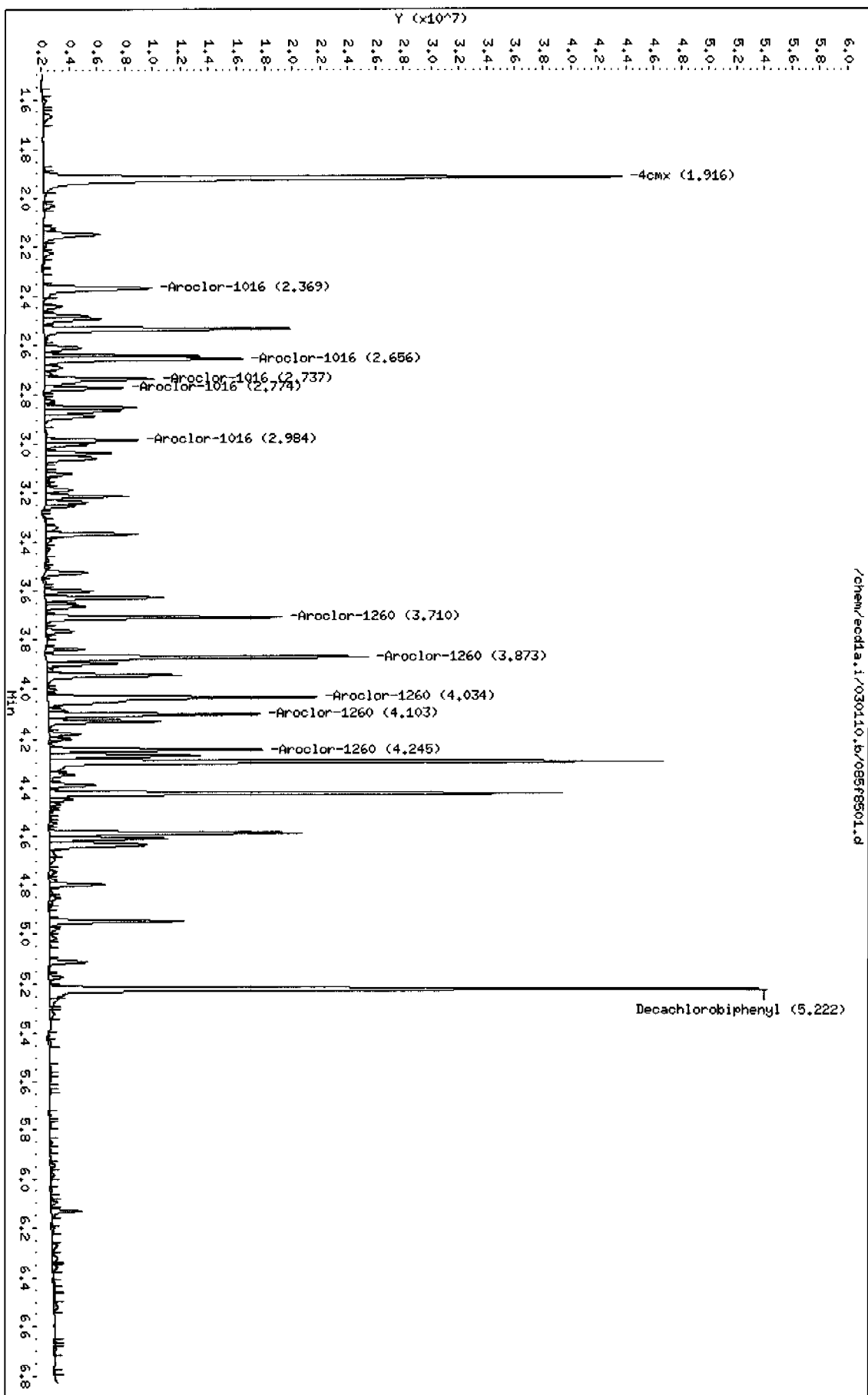
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
1.916	1.919	-0.003	44649305	103.682	3.9 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.222	5.227	-0.005	39442405	128.356	4.8 80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2			
2.369	2.373	-0.004	9223178	599.517	22.5 80.00- 120.00	100.00
2.656	2.659	-0.003	11664153	639.587	24.0 110.29- 150.29	126.47
2.737	2.740	-0.003	7512250	622.623	23.4 62.85- 102.85	81.45
2.774	2.778	-0.004	4142499	583.771	21.9 29.99- 69.99	44.91

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
2.984	2.988	-0.004	5198100	583.257	21.9	43.89-	83.89	56.36	
Average of Peak Concentrations =					22.7				

7 Aroclor-1260					CAS #: 11096-82-5				
3.710	3.714	-0.004	12582841	737.027	27.7	80.00-	120.00	100.00	
3.873	3.877	-0.004	18103662	765.695	28.7	129.88-	169.88	143.88	
4.034	4.039	-0.005	19477580	779.998	29.3	140.76-	180.76	154.79	
4.103	4.107	-0.004	11183153	776.302	29.1	70.44-	110.44	88.88	
4.245	4.250	-0.005	10954218	759.100	28.5	74.18-	114.18	87.06	
Average of Peak Concentrations					28.7				

Data File: /chem/eccl1a.i/030110.b/08f8501.d
Date : 01-MAR-2010 22:16
Client ID: CAPU-10-12539SD
Sample Info: 112020515911
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eccl1a.i
Operator: VSL
Column diameter: 0.25



Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 958311
 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)
1202055156 MB	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
1202055157 LCS	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
247767001	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
247767002	27-FEB-2010 10:30:00	30.02	H2SO4/KMn	1	8	1	0.03331	
247767003	27-FEB-2010 10:30:00	30.04	H2SO4/KMn	1	8	1	0.03329	
247767004	27-FEB-2010 10:30:00	30.06	H2SO4/KMn	1	8	1	0.03327	
247767005	27-FEB-2010 10:30:00	30.02	H2SO4/KMn	1	8	1	0.03331	
247767006	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
247767007	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
247767008	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
247767009	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
247767010	27-FEB-2010 10:30:00	30.03	H2SO4/KMn	1	8	1	0.0333	
247767011	27-FEB-2010 10:30:00	30.07	H2SO4/KMn	1	8	1	0.03326	
247820002	27-FEB-2010 10:30:00	30.02	H2SO4/KMn	1	8	1	0.03331	
1202055158 MS (247820002)	27-FEB-2010 10:30:00	30.02	H2SO4/KMn	1	8	1	0.03331	
1202055159 MSD (247820002)	27-FEB-2010 10:30:00	30.05	H2SO4/KMn	1	8	1	0.03328	
247820003	27-FEB-2010 10:30:00	30.05	H2SO4/KMn	1	8	1	0.03328	
247820004	27-FEB-2010 10:30:00	30.02	H2SO4/KMn	1	8	1	0.03331	
247820005	27-FEB-2010 10:30:00	30.01	H2SO4/KMn	1	8	1	0.03332	
247820006	27-FEB-2010 10:30:00	30.02	H2SO4/KMn	1	8	1	0.03331	
247820007	27-FEB-2010 10:30:00	30	H2SO4/KMn	1	8	1	0.03333	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202055157	PCB Laboratory Control	WE100224-07	1	mL	Clean up Date: 02/27/2010		
MS	1202055158	PCB Laboratory Control	WE100224-07	1	mL	Clean up Initials: RWH		
MSD	1202055159	PCB Laboratory Control	WE100224-07	1	mL	Verified By: JAM		
SURR	All	PIEST LOW LEVEL SURROGATE 200 UG/L	UE100222-15B	1	mL	Final Solvent: Hexane		
REGNT	All	Acetone	100211-B1	150	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	1:1 sulfuric acid	1260695a	5	mL			
REGNT	All	Hexane	1273338-B2	150	mL			
REGNT	All	5% Potassium Permanganate	B1275177-F	5	mL			
SOURCE	All	SODIUM SULFATE	1274910	30	g			