

Page 1 of 2

REQUEST NUMBER: 10-1131

ATTN: Valerie Davis

These Samples are on:
 LANL Request Number:10-1131
 Per Agreement Number:126310011
 Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 1/7/2010
TURNAROUND/REPORT DUE: 2/6/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LANL ERSMO CONTACT:

Signature:

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-7657	R	1/5/2010	
		1	RE12-10-7658	R	1/5/2010	
	SW-846:8321A_MOD	1	RE12-10-7633	R	1/5/2010	
		1	RE12-10-7634	R	1/5/2010	
		1	RE12-10-7635	R	1/5/2010	
		1	RE12-10-7636	R	1/5/2010	
		1	RE12-10-7637	R	1/5/2010	
		1	RE12-10-7638	R	1/5/2010	
		1	RE12-10-7639	R	1/5/2010	

Thursday, January 07, 2010

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REQUEST NUMBER: 10-1131

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD						
		1	RE12-10-7640	R	1/5/2010	
		1	RE12-10-7641	R	1/5/2010	
		1	RE12-10-7642	R	1/5/2010	
		1	RE12-10-7643	R	1/5/2010	
		1	RE12-10-7644	R	1/5/2010	
		1	RE12-10-7645	R	1/5/2010	
		1	RE12-10-7646	R	1/5/2010	
		1	RE12-10-7647	R	1/5/2010	
		1	RE12-10-7648	R	1/5/2010	
		1	RE12-10-7649	R	1/5/2010	
		1	RE12-10-7650	R	1/5/2010	
		1	RE12-10-7657	R	1/5/2010	
		1	RE12-10-7658	R	1/5/2010	

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Thursday, January 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1131

LOS ALAMOS

REQUEST NUMBER: 10-1131

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/6/2010

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
RE12-10-7634	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7648	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7638	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7639	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7633	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7647	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7644	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7637	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7635	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7642	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7649	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7650	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7641	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7643	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7640	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7645	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7646	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7636	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7657	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7658	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: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7633

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA: QBT3		ALLH	
TIME COLLECTED (HH:MM)		9:42		SUB-MEDIA: TUFF 1		NA	
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	12-610647	OK		FIELD QC TYPE: NA			
LOCATION TYPE:	GENERIC	OK		FIELD PREP: NA			
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		✓	
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 01/04/2010	None	y	
1		Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC: Brown sandy silt roots and rock

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-11, sw of firing pt

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16$ dpm $\beta \leq 2060$ dpmPID ambient
reading
HE negative0.0 ppm
0.0 ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY

(Printed Name) TLMcFarland

(Signature) TLMcFarland

Date/Time

01/05/2010

1540

RECEIVED BY

(Printed Name) M. L. McFarland

(Signature) M. L. McFarland

Date/Time

1/5/10

1540

RELINQUISHED BY

(Printed Name)

(Signature)

Date/Time

RECEIVED BY

(Printed Name)

(Signature)

Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7634

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA: QBT3		ALLH	
TIME COLLECTED (HH:MM)		9:51		SUB-MEDIA: TUFF 1		NA	
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	12-610647	OK		FIELD QC TYPE: NA			
LOCATION TYPE:	GENERIC	OK		FIELD PREP: NA			
TOP DEPTH:	0	2.0		SAMPLE USAGE: INV		✓	
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY from 01/04/2010	None	Y	
1		Met+U+CLO4+C N	1 LITER POLY 1 Liter	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown sandy soil

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-11. Sw of firing Point

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 27$ dpm
 $\beta \leq 2280$ dpm
PID $\frac{\text{ambient}}{\text{reading}}$

0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) <i>Tracy M...</i> (Signature) <i>Tracy M...</i>	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7635

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1023		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610648	OK		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 1m 01/04/2010	None	Yes	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Brown sandy silt few roots
and some rocks

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-35

South of firing point

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 22$ dpmPID ambient
reading $\frac{0.0}{0.0}$ ppmBY ≤ 2340 dpm

HE Neg.

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

Th McFarlane

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7636

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1031		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610648			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 2m 01/04/2010	None	Yes	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Brown sandy silt, few Tuff peaces

SAMPLE COMMENTS:

2.8 hit tuff

LOCATION DESC:

PS 01/05/10
2.8 hit Tuff 1a-35 South of firing point

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 55$ dpmPID ambient
reading 8.8 ppm $\text{BY} \leq 2390$ dpm

COLLECTED BY (PRINT)

Rolanda Saunders

REVIEWED BY (PRINT)

Th McFarland

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) M. L. M. M. (Signature) M. L. M. M.	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7637

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1111		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610649	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 73m 01/04/2010	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brown sandy silt and pinkish grey weathered tuff, few roots

FD: RE12-10-7658

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-33

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 33$ dpm PID $\frac{\text{reading}}{\text{ambient}} = \frac{0.0}{0.0}$ ppm
 $\text{Bg} \leq 2330$ dpm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) R. Saunders	01/05/2010	(Printed Name) M. L. North	1/5/10
(Signature) R. Saunders	1540	(Signature) M. L. North	1540
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7638

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA: QBT3		Allh	
TIME COLLECTED(HH:MM)		1050		SUB-MEDIA: TUFF 1		NA	
PRS ID: 12-001(b)		OK		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 12-610649		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		✓		FIELD PREP: NA		↓	
TOP DEPTH: 0		0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		0.6		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 72m 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC:

Dark brown sandy loam, some roots

SAMPLE COMMENTS: NA

LOCATION DESC:

1a-33

FIELD SCREENING/MEASUREMENT RESULTS:

α ≤ 22 dpm
 BY ≤ 2450 dpm

PID ambient reading 0.0 ppm
 HE neg

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) Phillip Minto (Signature) Phillip Minto	Date/Time 1/5/10 2020
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7639

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1124		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610650	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:	NA		↓
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NA		↓
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			WATER FLOWING: YES/NO/NA	NO		
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 01/04/2010	None	Yes	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: brown loamy sand, some silt, rocks and roots, some wood

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-34

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 27$ dpm

PID

ambient
reading

0.0 ppm

HE Neg.

BY ≤ 2320 dpm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) T L McFarland

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) M. L. McFarland (Signature) M. L. McFarland	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7640

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1133		SUB-MEDIA:	TUFF 1		OK
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610650			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 72N 01/04/2010	None	Yes	
1		Met+U+CLO4+C N	1 GAL POLY 1L	Ice	Yes	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: pinkish grey tuff, brown sandy silt

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-34

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 16$ dpm PID ambient
 $\text{BY} \leq 2520$ dpm reading $\frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) TLMcFarlane

R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) R. Saunders	01/05/2010	(Printed Name) TLMcFarlane	1/5/10
(Signature) R. Saunders	1540	(Signature) TLMcFarlane	1540
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7641

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1200		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610651	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.9		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 724 01/05/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC:

Brown sandy silt

FR: RE12-10-7659

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-46 northeast of firing Point

FIELD SCREENING/MEASUREMENT RESULTS:

AL ≤ 38 dpm

PID

ambient
reading0.0 2pm
0.0

BY ≤ 2110 dpm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

Larry A Lopez

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) M. Lisk (Signature) M. Lisk	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7642

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED(HH:MM)		1307		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610651	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 13M 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Light brown silty sand some rocks

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-46 northeast of firing Pit

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 55$ dpm

PID ambient reading 0.0 Ppm

 $BY \leq 2180$ dpm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) <i>M. L. Martinez</i> (Signature) <i>M. L. Martinez</i>	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7643

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED(HH:MM)		1310		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610652	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NO/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: brown sandy silt

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-47

FIELD SCREENING/MEASUREMENT RESULTS:

α ≤ 44 dpm PID ambient reading 00 ppm
 BY ≤ 2170 dpm HE Neg.

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) Melissa Montez (Signature) Melissa Montez	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7644

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA: QBT3		ALLH	
TIME COLLECTED (HH:MM)		1314		SUB-MEDIA: TUFF 1		NA	
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	12-610652	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	2.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC: NA			
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY Tam 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: brown sandy silt, some weathered tuff

SAMPLE COMMENTS: 2.8 kit tuff

LOCATION DESC: 1a-47

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 11$ dpm
 $\beta \leq 2350$ dpm

PID ambient
 reading 0.0
 4.1 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7645

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3	ALLH	
TIME COLLECTED (HH:MM)		1324		SUB-MEDIA:	TUFF 1	NA	
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA	OK	
LOCATION ID:	12-610653	↓		FIELD QC TYPE:	NA	↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA	↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			WATER FLOWING: YES/NO/NA	NO		
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 13m 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: brown silty sand, few rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-45

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 38$ dpmPID ambient
reading 0.0
0.0 ppmBY ≤ 1969 dpm

HE NEG

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) TL McFarland

R Saunders

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) <i>Michael Martin</i> (Signature) <i>Michael Martin</i>	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7646

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>	<u>AS PLANNED</u>	<u>AS COLLECTED</u>
DATE COLLECTED(MM/DD/YYYY):		01/05/2010	MEDIA: QBT3	ALLH
TIME COLLECTED (HH:MM)		1350	SUB-MEDIA: TUFF 1	NA
PRS ID: 12-001(b)		ok	SAMPLE TECH CODE: HA	ok
LOCATION ID: 12-610653		↓	FIELD QC TYPE: NA	↓
LOCATION TYPE: GENERIC		↓	FIELD PREP: NA	↓
TOP DEPTH: 0		2.0	SAMPLE USAGE: INV	↓
BOTTOM DEPTH: 0		3.6	SCREEN/PORT DESC: NA	
FIELD MATRIX: R		S	EXCAVATED: YES/NO/NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 72m 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Brown sandy silt, some gray buff

FD: RE12-10-7657

SAMPLE COMMENTS:

Hit tuff at 3.2

LOCATION DESC: 1a-45, northeast of firing site

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16$ dpm
 $\beta \leq 2340$ dpm

 PID $\frac{\text{ambient}}{\text{reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) TL McFarland (Signature) <i>TL McFarland</i>	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) <i>M. L. Montoya</i> (Signature) <i>M. L. Montoya</i>	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7647

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	OBT3		ALLIT
TIME COLLECTED (HH:MM)		1400		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610654	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 7am 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: brown clayey silt, moist, few roots, few rocks

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-38, east of firing site

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 33$ dpm
 $\text{BX} \leq 2270$ dpm
PID ^{reading} ambient

8.8 ppm

HE NEG.

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TL McFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>T. McFarland</i>	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) <i>Michael Matys</i> (Signature) <i>Michael Matys</i>	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7648

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1405		SUB-MEDIA:	TUFF.1		
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		
LOCATION ID:	12-610654	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NA			WATER FLOWING: YES/NO/NA	NO		
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY Jan 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 L POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: pinkish grey, dry, some wood, few rocks

SAMPLE COMMENTS:

RS:HA Hit tuff at 1.0
01/05/10

LOCATION DESC: 1a-38, east of firing site

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 22$ dpmPID $\frac{\text{reading}}{\text{ambient}} = \frac{0.0}{0.0}$ ppm $\text{Bx} \leq 2600$ dpm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) [Signature]	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 1/5/10 1541
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7649

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1423		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610655	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	RS 01/05/10 0.9 0.7		SCREEN/PORT DESC:	NA		↓
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NA		↓
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 13m 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Dark brown moist silty clay RS 01/05/10
recon numerous roots, few rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 1a - 44 north of firing Point

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 55$ dpm

PID

ambient
reading

8.8 ppm

HE NEG

BY ≤ 2066 dpm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 4/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7650

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1429		SUB-MEDIA:		TUFF 1	
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	12-610655	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	1.5		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO		NA	
BOREHOLE: YES/NO		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 72m 01/04/2010	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Yes	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Brown silty sand slightly moist

FR RE12-10-7660
 SAMPLE COMMENTS:
 NA

LOCATION DESC: 1a-44 north of firing point

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 22$ dpm ^{72m 1/5/10}
 $\beta \leq 2600$ dpm ¹⁹⁶⁹
 $\gamma \leq 2600$ dpm ^{72m 1/5/10}
 PID ambient reading 0.0 ppm

COLLECTED BY (PRINT)
R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>Troy Z</i>	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) <i>Theresa Martin</i> (Signature) <i>Theresa Martin</i>	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7657

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		RS 01.05.10 1324 1350		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	RS 01/05/10 12-10-653 12-10-653		FIELD QC TYPE:	FD		↓
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	3.6		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	739 1/05/2010 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE12-10-7646

Brownsandy silt, some gray stuff

SAMPLE COMMENTS:

Htuffat 3.2

LOCATION DESC: 1a-45, northeast of firing site

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16$ dpmPID ambient
reading $\frac{0.0}{0.0}$ ppmB8 ≤ 2340 dpm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) TL McFarland (Signature) Tracy M	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) M. L. McIntyre (Signature) M. L. McIntyre	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7658

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA: QBT3		ALLH	
TIME COLLECTED (HH:MM)		1111		SUB-MEDIA: TUFF 1		NA	
PRS ID: 12-001(b)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: UNK		12-610649		FIELD QC TYPE: ED			
LOCATION TYPE: GENERIC		OK		FIELD PREP: NA			
TOP DEPTH: 0		2.0		SAMPLE USAGE: QC		✓	
BOTTOM DEPTH: 0		3.0		SCREEN/PORT DESC: NA			
FIELD MATRIX: R		S		EXCAVATED: YES/NO NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	73m 1/5/10 2082+NMED-HEXP	250 ML AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		Met+U+CLO4+C N	1 GAL POLY	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: QC Sample of RE12-10-7637

brown sandy silt and pinkish grey weathered tuff, few roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-33

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 33$ dpm

PID

ambient

8.0 ppm

BY ≤ 2930 dpm

reading

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

T. McFarland

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) T. McFarland (Signature) T. McFarland	Date/Time 1/5/20 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7659

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA: NA		ok	
TIME COLLECTED (HH:MM)		1207		SUB-MEDIA: OTHER		↓	
PRS ID: 12-001(b)		OK		SAMPLE TECH CODE: DC		OK	
LOCATION ID: UNK 12-610651		RS 01-05-10 12-610649		FIELD QC TYPE: ER		↓	
LOCATION TYPE: GENERIC		OK		FIELD PREP: UF		↓	
TOP DEPTH: 0		↓		SAMPLE USAGE: QC		↓	
BOTTOM DEPTH: 0		↓		SCREEN/PORT DESC:		NA	
FIELD MATRIX: W		W		EXCAVATED: YES/NO NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO NA			
BOREHOLE: YES/NO NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC: QC Sample of ~~RE12-10-7637~~ RE12-10-7641
RS 01-05-10

SAMPLE COMMENTS: Rinse

LOCATION DESC: ~~1a-33~~ 1a-46
RS 01-05-10

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq$ ~~12m~~ 12m 1105/10 dpm NA
BY \leq dpm

COLLECTED BY (PRINT)
TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) M. L. N. N. N. (Signature) M. L. N. N. N.	Date/Time 1540 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7660

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		1444		SUB-MEDIA:	OTHER		
PRS ID:	12-001(b)	ok		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	12-610655		FIELD QC TYPE:	FR		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	UF		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:		NA	
FIELD MATRIX:	W	W		EXCAVATED: YES <input checked="" type="radio"/> NO <input type="radio"/> NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES <input checked="" type="radio"/> NO <input type="radio"/> NA			
BOREHOLE: YES <input checked="" type="radio"/> NO <input type="radio"/> NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE-12-10-7650

FR RE12-10-7650
SAMPLE COMMENTS: Rinsate

LOCATION DESC: 1a-44 north of firing Point

FIELD SCREENING/MEASUREMENT RESULTS:

NA

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TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) <i>Whitney</i> (Signature) <i>Whitney</i>	Date/Time 1/5/10 1540
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2490

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(b) of CU 12-001(a)-99 - Threemile Cyn.

SAMPLE ID: RE12-10-7661

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/05/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		1052		SUB-MEDIA:	OTHER		L
PRS ID:	12-001(b)	OK		SAMPLE TECH CODE:	DC		OK
LOCATION ID:	UNK	12-610648		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:			NA
FIELD MATRIX:	W			EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO	NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE12-10-7636

SAMPLE COMMENTS: Rinsete

LOCATION DESC: 1a-35

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq$ NA dpmPID ambient NA ppm
readingBX \leq NA dpm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) T L m c Farland

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/05/2010 1540	RECEIVED BY (Printed Name) M. L. M. M. M. (Signature) M. L. M. M. M.	Date/Time 1/5/10 1540
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):

RE12-10-7646
7657
7647
7638
7704
7637
7658
7639
7640
7641
7703
7636
7635

RE12-10-7698
7647
7648
7645
7644
7642
7643
7633
7634
7649
7650

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

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

RE12-10-7660
-7661
7659

Reason: Rinsatc

.....
Print Last Name McFarland

Signature Tracy

Date 01/05/2010



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00003

Request or PO Number:

Client Sample ID: R612-10-7633

ARS Sample ID: AR52-10-00003-001

Sample Collection Date: 01/06/10 09:42

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 1 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	38.53	22.69	27.01	23.17		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	41.05	11.09	12.49	12.16		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	19.66	8.61	2.09	8.63		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	13.68	0.14	13.68		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.31	0.26	0.10	0.26		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.04	0.10	0.09	0.10		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.15	0.29	0.21	0.29		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	0.91	0.48	0.17	0.48		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-226	2.30	1.02	0.36	1.03		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.70	0.88	0.41	0.88		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	4.21	4.05	1.78	4.16		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.72	0.60	0.19	0.60		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.31

Matthew J. Edin
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # EB7558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Request or PO Number:

Client Sample ID: RE12-10-7634

ARS Sample ID: ARS2-10-00003-002

Sample Collection Date: 01/05/10 09:51

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 1 s	MOE	TPU	Unit	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	22.58	17.31	22.94	17.53		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	34.50	10.49	12.86	11.31		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.21	0.25	0.12	0.25		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	21.12	8.31	1.84	8.34		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	12.08	0.12	12.05		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.06	0.12	0.09	0.12		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.13	0.16	0.08	0.16		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.00	12.53	0.14	12.53		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.71	0.59	0.18	0.59		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-226	0.86	0.52	0.62	0.52		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.41	0.94	0.29	0.95		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	3.27	3.27	1.40	3.35		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	-0.01	33.40	0.07	33.40		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.86

Matthew J. Eder
Quality Assurance Review

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NELAP Certificate # E87558



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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Request or PO Number:

Client Sample ID: RE12-10-7635

ARS Sample ID: ARS2-10-00003-003

Sample Collection Date: 01/05/10 10:23

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Unit	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	18.71	15.22	19.32	15.39		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	34.19	11.07	13.71	11.84		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	18.59	7.46	1.68	7.49		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	11.01	0.11	11.01		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.13	0.11	0.08	0.11		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.08	0.12	0.07	0.12		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.00	58.19	0.13	58.19		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.44	0.51	0.14	0.51		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	1.49	0.70	0.29	0.71		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	0.66	0.70	0.42	0.70		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	1.47	4.71	1.44	4.74		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.05	0.17	0.09	0.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.39

Matthew J. Edin
Quality Assurance Review

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LELAP Certificate # 3065a

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-673-9534

ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7636

Sample Collection Date: 01/05/10 10:31

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-004

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TRU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	28.00	18.96	23.95	19.27		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	34.72	18.72	13.00	11.84		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	17.65	7.36	1.50	7.58		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	11.77	0.12	11.77		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.44	0.31	0.09	0.31		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.04	0.09	0.07	0.09		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.00	12.24	0.14	12.24		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.40	0.55	0.19	0.56		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	1.97	0.88	0.31	0.88		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	-0.07	104.95	0.24	104.95		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	0.99	2.71	1.29	4.74		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.05	0.18	0.10	0.18		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.98

Matthew J. Eder
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Request or PO Number:

Client Sample ID: RE12-10-7637

ARS Sample ID: ARS2-10-00003-005

Sample Collection Date: 01/05/10 11:11

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TBU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Preceder/Chem Recovery
GROSS ALPHA	137.40	38.20	27.01	41.74		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	115.27	16.42	12.49	21.65		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	12.62	6.54	1.82	6.35		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	11.42	0.12	11.92		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.34	0.26	0.09	0.26		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	-0.01	15.59	0.09	15.59		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.13	0.21	0.14	0.21		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.75	0.62	0.20	0.62		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	2.84	1.35	0.32	1.35		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.24	1.01	0.35	1.01		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	4.10	3.45	1.27	3.72		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.60	0.46	0.15	0.46		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.00

Matthew A. Eden
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9334

ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7638

Sample Collection Date: 01/05/10 10:50

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-006

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MC	TC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Trace/Chem Recovery
GROSS ALPHA	54.86	24.21	22.94	25.12		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	52.49	11.18	12.66	13.77		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	18.42	8.07	1.96	8.09		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	12.81	0.11	12.81		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.27	0.20	0.09	0.20		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.58	0.34	0.08	0.34		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.00	13.32	0.15	13.32		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.63	0.57	0.13	0.58		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PA-232	1.10	0.60	0.78	0.60		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.09	1.04	0.40	1.04		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	5.44	3.82	1.51	4.02		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.32	0.26	0.09	0.26		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.20

Matt Edwards
Quality Assurance Review

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LELAP Certificate # 30658

NE-LAP Certificate # E87558



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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7639

Sample Collection Date: 01/05/10 11:24

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-007

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	Min	Max	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	79.08	28.14	19.32	29.78		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	34.86	13.43	13.71	15.02		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	20.65	8.46	1.94	8.49		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CA-40	6.00	12.70	0.11	15.70		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.10	0.13	0.09	0.13		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	-0.01	16.62	0.06	16.62		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.76	0.58	0.15	0.58		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.78	0.61	0.17	0.61		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	1.50	1.16	0.34	1.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.64	0.82	0.20	0.82		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	5.01	4.21	1.74	4.36		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.26	0.35	0.15	0.35		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.41

Matt A. Eden
Quality Assurance Review

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NELAP Certificate # E87558



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ARS Sample Delivery Group: ARS2-10-00003

Request or PU Number:

Client Sample ID: RE12-10-7640

ARS Sample ID: ARS2-10-00003-008

Sample Collection Date: 01/05/10 11:33

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	Min	Total	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracker/Chem Recovery
GROSS ALPHA	64.73	26.15	23.98	27.33		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	62.57	13.09	18.00	15.17		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.16	0.22	0.13	0.23		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	23.98	9.26	2.02	9.29		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.60	13.21	0.13	13.21		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.00	43.36	0.10	43.36		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	-0.01	17.29	0.08	17.29		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.45	0.47	0.15	0.47		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.59	0.63	0.22	0.63		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PA-228	1.62	1.03	0.35	1.03		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.31	1.17	0.38	1.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	1.81	4.12	1.86	4.14		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.38	0.36	0.12	0.36		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.73

M. J. Edm
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7641

Sample Collection Date: 01/05/10 12:00

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-009

Date Received: 01/06/10 00:00

Report Date: 01/06/10 11:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	MDL	Qcst	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	167.13	41.73	27.01	46.48		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	104.87	16.12	12.49	20.61		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	16.66	7.13	1.70	7.15		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	11.11	0.11	11.11		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.18	0.17	0.08	0.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.01	0.03	0.07	0.03		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.00	58.72	0.13	58.72		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.85	0.55	0.15	0.55		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	1.46	1.01	0.30	1.02		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	2.00	1.56	0.61	1.56		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	6.87	3.75	1.22	4.27		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.04	0.15	0.09	0.15		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.26

Matthew A. Edley
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00003

Request or PO Number:

Client Sample ID: RE12-10-7642

ARS Sample ID: ARS2-10-00003-010

Sample Collection Date: 01/05/10 13:07

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Soilid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	98.68	31.22	22.94	33.48		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	74.69	14.03	12.66	16.73		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.07	0.14	0.12	0.14		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	19.19	8.03	1.88	8.05		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	12.78	8.19	12.78		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.24	0.22	0.09	0.22		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.01	0.04	0.08	0.04		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.37	0.36	0.14	0.36		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.86	0.61	0.17	0.61		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	-0.14	191.16	0.43	191.16		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	2.01	0.90	0.27	0.90		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	2.10	3.56	1.64	3.59		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	-0.01	48.99	0.10	48.99		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.99

Matthew J. Folan
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00003

Request or PO Number:

Client Sample ID: RE12-10-7643

ARS Sample ID: ARS2-10-00003-011

Sample Collection Date: 01/05/10 13:10

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- %	MDC	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	88.74	29.68	19.32	21.61		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	76.25	14.90	13.71	17.58		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	17.88	7.48	1.75	2.50		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	11.44	0.12	11.44		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.01	14.96	0.07	14.96		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.40	0.49	0.22	0.49		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PS-212	1.74	0.58	0.17	0.58		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
BA-228	1.50	1.01	0.31	1.01		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	2.04	1.19	0.32	1.19		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	3.48	2.65	1.18	2.70		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.32	0.29	0.10	0.29		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.49

Matthew A. Eden
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7644

Sample Collection Date: 01/05/10 13:14

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-012

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	76.20	28.02	23.98	20.54		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	70.63	13.71	13.00	16.21		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.07	0.14	0.12	0.14		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	17.25	7.56	1.83	7.57		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CR-60	0.00	12.00	0.12	12.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.07	0.13	0.09	0.13		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.01	15.70	0.08	15.70		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.59	0.45	0.14	0.45		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.57	0.52	0.10	0.52		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	1.81	1.23	0.32	1.23		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	0.09	0.49	0.34	0.49		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	2.93	2.31	1.03	2.40		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.02	0.17	0.09	0.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.95

Matthew J. Eden
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00003

Request or PO Number:

Client Sample ID: RE12-10-7645

ARS Sample ID:

ARS2-10-00003-013

Sample Collection Date: 01/05/10 13:24

Date Received:

01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date:

01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDL	TRU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	125.10	35.61	27.01	38.69		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	81.11	14.50	12.49	17.58		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
HA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	-0.87	-23.92	4.05	-23.92		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	11.60	0.12	11.60		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.18	0.16	0.09	0.16		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	-0.01	15.29	0.07	15.29		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.69	0.67	0.14	0.57		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
FE-212	1.87	0.55	0.10	0.56		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-226	1.33	0.95	0.31	0.94		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	-0.67	104.23	0.23	104.23		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	3.46	2.89	1.27	3.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.39	0.39	0.15	0.39		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.80

Matthew A. Eden
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # B07556



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ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7646

Sample Collection Date: 01/05/10 13:50

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-014

Date Received: 01/05/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TBU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	107.91	32.50	12.94	35.09		pCi/g	EPA 900.0M	1/5/2010	ME	N/A
GROSS BETA	67.06	13.67	12.66	15.94		pCi/g	EPA 900.0M	1/5/2010	ME	N/A
NA-22	0.00	0.00	0.13	0.06		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	23.11	9.28	2.09	9.30		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.08	0.17	0.14	0.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.12	0.13	0.10	0.13		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.04	0.10	0.09	0.10		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.00	72.32	0.14	72.32		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	2.54	0.73	0.18	0.74		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	2.94	1.22	0.36	1.23		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.41	0.86	0.21	0.86		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	3.07	3.47	1.61	3.54		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.09	0.20	0.10	0.20		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.01

M. J. Edler
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00003

Request or PO Number:

Client Sample ID: RE12-10-7647

ARS Sample ID: ARS2-10-00003-015

Sample Collection Date: 01/05/10 14:00

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MFC	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	156.35	38.84	19.32	43.30		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	97.18	16.81	13.71	20.59		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	15.10	6.61	1.61	6.63		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.04	0.08	0.08	0.08		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.27	0.21	0.07	0.21		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.24	0.31	0.12	0.31		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-210	1.24	0.50	0.18	0.61		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	1.80	0.82	0.28	0.82		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.72	0.84	0.16	0.84		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	0.30	0.44	1.58	4.58		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.16	0.22	0.09	0.22		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.39

Matt A. Edin
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # EB7558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00003

Client Sample ID: RE12-10-7648

Sample Collection Date: 01/05/10 14:05

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: AR52-10-00003-016

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDR	TDH	Q _{total}	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	204.79	43.83	23.98	50.49		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	124.22	17.68	13.00	23.32		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	25.82	8.78	1.73	8.82		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.14	0.20	0.11	0.20		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.17	0.16	0.08	0.16		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.03	0.09	0.07	0.09		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.33	0.38	0.13	0.38		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.20	0.45	0.11	0.45		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	1.22	0.73	0.55	0.73		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	1.10	0.71	0.18	0.71		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	3.33	2.87	1.26	2.97		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	-0.01	31.35	0.07	31.35		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.49

Matthew A. Eder
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # 587558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Request or PQ Number:

Client Sample ID: RE12-10-7649

ARS Sample ID: ARS2-10-00003-017

Sample Collection Date: 01/05/10 14:23

Date Received: 01/06/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDG	TPG	Q-act	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	122.63	36.29	27.01	39.27		pCi/g	EPA 900.6M	1/6/2010	ME	N/A
GROSS BETA	78.73	14.35	12.49	17.28		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.03	0.07	0.11	0.07		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	13.01	6.34	1.68	6.35		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	10.08	0.11	10.08		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.06	0.13	0.08	0.13		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	0.08	0.12	0.07	0.12		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.31	0.31	0.13	0.31		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	0.99	0.45	0.16	0.45		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	3.41	1.23	0.29	1.24		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	2.08	1.17	0.27	1.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	4.22	3.05	1.30	3.20		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.13	0.20	0.09	0.20		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 2.22

Matthew A. Eden
 Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7650

Sample Collection Date: 01/05/10 14:29

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-018

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qval	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	75.63	27.75	22.94	29.25		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	82.08	12.38	12.56	13.93		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	17.00	6.45	1.38	6.47		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	-0.01	28.12	0.06	28.12		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.70	0.49	0.11	0.49		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.65	0.49	0.13	0.49		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	2.11	0.79	0.24	0.80		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	2.15	0.92	0.31	0.92		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	1.00	2.34	1.21	2.35		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.17	0.21	0.09	0.21		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 1.32

Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # ES7558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7657

Sample Collection Date: 01/05/10 13:50

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00003-019

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	Moist	TOC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	88.74	29.68	19.32	31.61		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	51.60	13.34	13.71	14.76		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.03	0.08	0.11	0.08		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	21.04	8.13	1.77	8.13		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CO-60	0.09	0.19	0.12	0.12		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.27	0.22	0.09	0.22		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	-0.01	15.17	0.07	15.17		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.31	0.32	0.14	0.32		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.82	0.54	0.10	0.59		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	-0.13	127.16	0.51	127.16		pCi/g	EPA 901.1M	1/6/2010	MP	N/A
U-235	2.19	1.22	0.36	1.22		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	3.85	3.84	1.31	3.88		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.27	0.28	0.10	0.28		pCi/g	EPA 901.1M	1/6/2010	ME	N/A

NOTES: % Moisture: 0.96

Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00003

Client Sample ID: RE12-10-7656

Sample Collection Date: 01/05/10 11:11

Sample Matrix: Sniff/Sniff

Request or PO Number:


ARS Sample ID: ARS2-10-00003-020

Date Received: 01/06/10 00:00

Report Date: 01/06/10 21:16

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDA	YPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	147.40	27.60	23.98	41.71		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
GROSS BETA	74.89	14.66	13.00	17.29		pCi/g	EPA 900.0M	1/6/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
K-40	15.88	6.37	1.43	6.39		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CN-40	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-134	0.16	0.13	0.07	0.13		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
CS-137	-0.01	12.29	0.06	12.29		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
EU-152	0.00	9.77	0.11	9.77		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
PB-212	1.45	0.47	0.13	0.46		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
RA-228	0.52	0.46	0.41	0.46		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-235	2.66	1.00	0.38	1.00		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
U-238	4.18	3.16	1.19	3.30		pCi/g	EPA 901.1M	1/6/2010	ME	N/A
AM-241	0.02	0.07	0.04	0.07		pCi/g	EPA 901.1M	1/6/2010	ME	N/A


NOTES: % Moisture: 1.07


Quality Assurance Review


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


LELAP Certificate # 30658

NELAP Certificate # E87558


DATA VALIDATION COVER SHEET	
5122-1 Data Validation Cover Sheet	Records Use only 

Section I.							
REQUEST NUMBER: <u>10-1131</u>		VALIDATION DATE: <u>02/17/10</u>		LAB CODE: <u>GEL</u>			
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>							
VALIDATOR: <u>David Schwent</u>				ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>			
ANALYTICAL SUITE (CHECK ALL THAT APPLY):							
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS	<input type="checkbox"/> LCMSMS PERCHLORATES				
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS				
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input checked="" type="checkbox"/> LCMSMS HIGH EXPLOSIVES					
<input type="checkbox"/> OTHER (DESCRIBE): _____							
Section II. Completeness Check							
YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. TICS MASS SPECTRA
Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):							
1. Bracketing CCV %Ds of RDX and 2,4,6-trinitrotoluene were >20% with positive bias. All associated sample results were NDs and, thus, were not qualified.							
Reviewed by: <u>Monica Dymerski</u>				Level I		Date: <u>02/18/10</u>	


DATA VALIDATION COVER SHEET	
5122-1	Records Use only
Data Validation Cover Sheet	
VALIDATOR'S SIGNATURE: <u>David Schwartz</u> DATE: <u>02/17/10</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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE0b	R, HE0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The quantitating IS area count is <25% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow the method-specific windows.	R, HE1a	J, HE1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count for the quantitating IS is <70% but >25% of the average of that obtained from the calibration standards.	UJ, HE1b	J+, HE1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standards.	UJ, HE1c	J-, HE1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE1d	R, HE1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The surrogate is <10%R. Follow the external laboratory limits.	R, HE3	J-, HE3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The surrogate is < the Lower Acceptance Limit but ≥10% recovery. Follow the external laboratory limits.	UJ, HE3a	J-, HE3a
<input 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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, HE9	J-, HE9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The holding time was >2 times the applicable holding time requirement.	R, HE9a	J-, HE9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input 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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, HE19	J, R, HE19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125039a

Date Analyzed: 26-JAN-10 06:01

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220016.wiff

Date Analyzed: 22-JAN-10 14:21

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: RE12-10-7648

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125042a

Date Analyzed: 26-JAN-10 07:30

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7648

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220019.wiff

Date Analyzed: 22-JAN-10 15:08

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: RE12-10-7638

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125043a

Date Analyzed: 26-JAN-10 07:59

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7638

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220020.wiff

Date Analyzed: 22-JAN-10 15:24

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: RE12-10-7639

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126004

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125044a

Date Analyzed: 26-JAN-10 08:29

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7639

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220021.wiff

Date Analyzed: 22-JAN-10 15:39

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 Amount		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7633

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125045a

Date Analyzed: 26-JAN-10 08:58

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7633

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126005

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220022.wiff

Date Analyzed: 22-JAN-10 15:55

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7647

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125046a

Date Analyzed: 26-JAN-10 09:28

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7647

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220023.wiff

Date Analyzed: 22-JAN-10 16:11

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: RE12-10-7644

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125050a

Date Analyzed: 26-JAN-10 11:26

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7644

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220027.wiff

Date Analyzed: 22-JAN-10 17:13

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: RE12-10-7637

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125051a

Date Analyzed: 26-JAN-10 11:56

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7637

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220028.wiff

Date Analyzed: 22-JAN-10 17:29

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: RE12-10-7635

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125052a

Date Analyzed: 26-JAN-10 12:25

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7635

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220029.wiff

Date Analyzed: 22-JAN-10 17:45

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: RE12-10-7642

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125053a

Date Analyzed: 26-JAN-10 12:55

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7642

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220030.wiff

Date Analyzed: 22-JAN-10 18:01

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: RE12-10-7649

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125054a

Date Analyzed: 26-JAN-10 13:24

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7649

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220031.wiff

Date Analyzed: 22-JAN-10 18:16

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: RE12-10-7650

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125055a

Date Analyzed: 26-JAN-10 13:54

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7650

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220032.wiff

Date Analyzed: 22-JAN-10 18:32

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7641

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125056a

Date Analyzed: 26-JAN-10 14:23

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7641

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220033.wiff

Date Analyzed: 22-JAN-10 18:48

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: RE12-10-7643

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125057a

Date Analyzed: 26-JAN-10 14:53

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7643

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220034.wiff

Date Analyzed: 22-JAN-10 19:03

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: RE12-10-7640

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125058a

Date Analyzed: 26-JAN-10 15:22

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7640

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220035.wiff

Date Analyzed: 22-JAN-10 19:19

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: RE12-10-7645

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125059a

Date Analyzed: 26-JAN-10 15:51

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7645

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220036.wiff

Date Analyzed: 22-JAN-10 19:35

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: RE12-10-7646

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125063a

Date Analyzed: 26-JAN-10 17:49

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7646

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220040.wiff

Date Analyzed: 22-JAN-10 20:38

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7636

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125064a

Date Analyzed: 26-JAN-10 18:19

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7636

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220041.wiff

Date Analyzed: 22-JAN-10 20:53

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7657

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126019

Sample Amount 2

Moisture: 10.1

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125065a

Date Analyzed: 26-JAN-10 18:49

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7657

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126019

Sample Amount 2

Moisture: 10.1

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220042.wiff

Date Analyzed: 22-JAN-10 21:09

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7658

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126020

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125066a

Date Analyzed: 26-JAN-10 19:18

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7658

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126020

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220043.wiff


Date Analyzed: 22-JAN-10 21:25

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

DATA VALIDATION COVER SHEET	
5116-1	Records Use only
Data Validation Cover Sheet	
	

Section I.

REQUEST NUMBER: 10-1131 VALIDATION DATE: 02/18/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: David Schwent 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 PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	
<input type="checkbox"/> OTHER (DESCRIBE): <u>PCBs</u>			

Section II. Completeness Check

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

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

None.

Reviewed by: Monica Dymerski **Level I** **Date:** 02/18/10

VALIDATOR'S SIGNATURE: David Schwent DATE: 02/18/10

Form 5116-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project
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ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST

5116-2

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

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input 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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				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
Certificate of Analysis
Sample Summary

SDG Number: 10-1131
Lab Sample ID: 244126019

Date Collected: 01/05/2010 12:00
Date Received: 01/08/2010 09:05
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 10.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-1131
Lab Sample ID: 244126020

Date Collected: 01/05/2010 12:00
Date Received: 01/08/2010 09:05
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YSI
Aliquot: 30.17 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

Thursday, January 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1131

LOS ALAMOS

REQUEST NUMBER: 10-1131

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/6/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

244106^a/

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7634	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7648	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7638	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7639	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7633	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7647	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7644	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7637	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7635	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7642	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7649	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7650	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7641	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7643	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7640	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7645	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7646	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7636	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7657	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7658	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

Thursday, January 07, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-1131

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/7/2010

TURNAROUND/REPORT DUE: 2/6/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	ONTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE12-10-7657	R	1/5/2010	
		1	RE12-10-7658	R	1/5/2010	
	SW-846-8321A_MOD	1	RE12-10-7633	R	1/5/2010	
		1	RE12-10-7634	R	1/5/2010	
		1	RE12-10-7635	R	1/5/2010	
		1	RE12-10-7636	R	1/5/2010	
		1	RE12-10-7637	R	1/5/2010	
		1	RE12-10-7638	R	1/5/2010	
		1	RE12-10-7639	R	1/5/2010	

REQUEST NUMBER: 10-1131

Thursday, January 07, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE12-10-7640	R	1/5/2010	
		1	RE12-10-7641	R	1/5/2010	
		1	RE12-10-7642	R	1/5/2010	
		1	RE12-10-7643	R	1/5/2010	
		1	RE12-10-7644	R	1/5/2010	
		1	RE12-10-7645	R	1/5/2010	
		1	RE12-10-7646	R	1/5/2010	
		1	RE12-10-7647	R	1/5/2010	
		1	RE12-10-7648	R	1/5/2010	
		1	RE12-10-7649	R	1/5/2010	
		1	RE12-10-7650	R	1/5/2010	
		1	RE12-10-7657	R	1/5/2010	
		1	RE12-10-7658	R	1/5/2010	

Final Page of REQUEST NUMBER 10-1131



a member of **The GEL Group** INC



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January 12, 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: 244126
SDG: 10-1131

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 08, 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: 10-1131
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 244126
SDG: 10-1131

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 244126
SDG # : 10-1131**

January 12, 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 January 08, 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>
244126001	RE12-10-7634
244126002	RE12-10-7648
244126003	RE12-10-7638
244126004	RE12-10-7639
244126005	RE12-10-7633
244126006	RE12-10-7647
244126007	RE12-10-7644
244126008	RE12-10-7637
244126009	RE12-10-7635
244126010	RE12-10-7642
244126011	RE12-10-7649
244126012	RE12-10-7650
244126013	RE12-10-7641
244126014	RE12-10-7643
244126015	RE12-10-7640
244126016	RE12-10-7645
244126017	RE12-10-7646
244126018	RE12-10-7636
244126019	RE12-10-7657
244126020	RE12-10-7658

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.



Valerie Davis

Project Manager

List of current GEL Certifications as of 12 January 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLJA	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

Thursday, January 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1131

LOS ALAMOS

REQUEST NUMBER: 10-1131

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/6/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

244106²/

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7634	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7648	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7638	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7639	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7633	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7647	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7644	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7637	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7635	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7642	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7649	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7650	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7641	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7643	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7640	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7645	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7646	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7636	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7657	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7658	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

Thursday, January 07, 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: 1/7/2010

TURNAROUND/REPORT DUE: 2/6/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

Page 1 of 2

REQUEST NUMBER: 10-1131

These Samples are on:

LANL Request Number: 10-1131

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-7657	R	1/5/2010	
		1	RE12-10-7658	R	1/5/2010	
	SW-846:8321A_MOD	1	RE12-10-7633	R	1/5/2010	
		1	RE12-10-7634	R	1/5/2010	
		1	RE12-10-7635	R	1/5/2010	
		1	RE12-10-7636	R	1/5/2010	
		1	RE12-10-7637	R	1/5/2010	
		1	RE12-10-7638	R	1/5/2010	
		1	RE12-10-7639	R	1/5/2010	

Thursday, January 07, 2010

Page 2 of 2

REQUEST NUMBER: 10-1131

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE12-10-7640	R	1/5/2010	
		1	RE12-10-7641	R	1/5/2010	
		1	RE12-10-7642	R	1/5/2010	
		1	RE12-10-7643	R	1/5/2010	
		1	RE12-10-7644	R	1/5/2010	
		1	RE12-10-7645	R	1/5/2010	
		1	RE12-10-7646	R	1/5/2010	
		1	RE12-10-7647	R	1/5/2010	
		1	RE12-10-7648	R	1/5/2010	
		1	RE12-10-7649	R	1/5/2010	
		1	RE12-10-7650	R	1/5/2010	
		1	RE12-10-7657	R	1/5/2010	
		1	RE12-10-7658	R	1/5/2010	

Final Page of REQUEST NUMBER 10-1131



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1131		
Received By: Patricia Dover-Dent			Date Received: JANUARY 8, 2009		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 20CPM	
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 < 6 deg. C?	X			Preservation Method: ice bags BLUE ICE dry ice NONE other (describe) 1,2,9,13,14
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 Preservative 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 #'S
7209 7849 4203 1C 7209 7849 4122 14C
7209 7849 4188 1C
7209 7849 4166 2C
7209 7849 4155 2C
7209 7849 4199 2C
7209 7849 4177 2C
7209 7849 4144 9C
7209 7849 4133 13C

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

SHIP DATE: 07JAN10
ACTWGT: 37.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00



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Express



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PSN 7209 7849 4203

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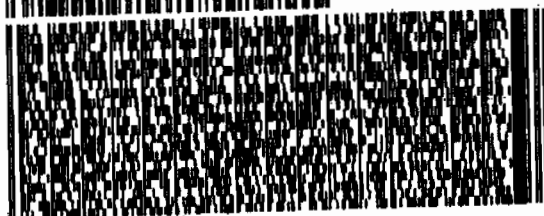
LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

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str# 7209 7849 4155 0201

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CHS

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ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

SHIP DATE: 07JAN10
ACTWGT: 58.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

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CAD: 0014176/CAFE2449

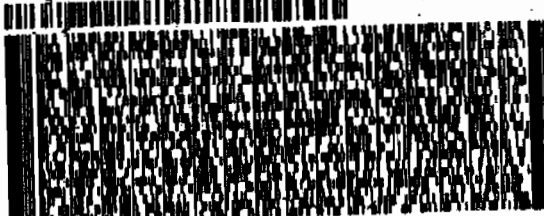
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UNITED STATES US

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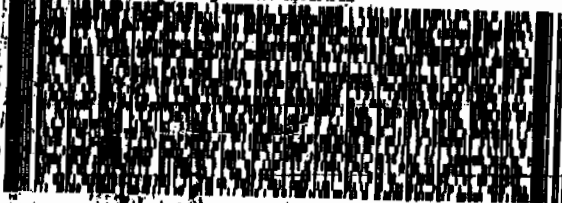
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 07JAN10
ACTWGT: 55.8 LB MAN
CAD: 0014176/CAFE2449
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ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 07JAN10
ACTWGT: 55.8 LB MAN
CAD: 0014176/CAFE2449
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ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 08JAN10
ACTWGT: 23.8 LB MAN
CAD: 0014176/CAFE2449
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GENERAL ENGINEERING LAB
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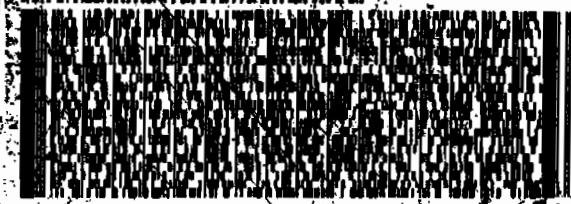
ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 08JAN10
ACTWGT: 55.8 LB MAN
CAD: 0014176/CAFE2449
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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (605) 665-9969 JOYLENE VALDEZ LOS ALAMOS NATL LAB TA00 BLDG 1237 DPU 03		SHIP AS DATE: 07JAN10 CWGT: 57.0 LB TAN JT: 0014176/CAFE2449
LOS ALAMOS, NM 87545 UNITED STATES US		WILL SENDER
TO VALERIE DAVIS GENERAL ENGINEERING LAB 2040 SAVAGE RD CHARLESTON SC 29 (843) 656-0171 REF: 6B010AMR2A051E		
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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 10-1131**

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: 940071

Prep Batch Number: 940063

Sample Analysis

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

Sample ID	Client ID
244126001	RE12-10-7634
244126002	RE12-10-7648
244126003	RE12-10-7638
244126004	RE12-10-7639
244126005	RE12-10-7633
244126006	RE12-10-7647
244126007	RE12-10-7644
244126008	RE12-10-7637
244126009	RE12-10-7635
244126010	RE12-10-7642
244126011	RE12-10-7649
244126012	RE12-10-7650
244126013	RE12-10-7641

10-1131-EXPLCMS

Page 1 of 6

244126014	RE12-10-7643
244126015	RE12-10-7640
244126016	RE12-10-7645
244126017	RE12-10-7646
244126018	RE12-10-7636
244126019	RE12-10-7657
244126020	RE12-10-7658
1202011683	Method Blank (MB)
1202011684	Laboratory Control Sample (LCS)
1202011685	244126001(RE12-10-7634) Matrix Spike (MS)
1202011686	244126001(RE12-10-7634) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

Primary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

10-1131-EXPLCMS

Page 2 of 6

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 244126001 (RE12-10-7634) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information**Holding Time Specifications**

All samples in this SDG in this analytical batch 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.

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.

10-1131-EXPLCMS

Page 3 of 6

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 244126001 (RE12-10-7634) 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 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 reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

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: Herbert H. Maur Date: 01/28/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125039a

Date Analyzed: 26-JAN-10 06:01

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220016.wiff

Date Analyzed: 22-JAN-10 14:21

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: RE12-10-7648

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125042a

Date Analyzed: 26-JAN-10 07:30

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7648

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220019.wiff

Date Analyzed: 22-JAN-10 15:08

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7638

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125043a

Date Analyzed: 26-JAN-10 07:59

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7638

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220020.wiff

Date Analyzed: 22-JAN-10 15:24

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: RE12-10-7639

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125044a

Date Analyzed: 26-JAN-10 08:29

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7639

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220021.wiff

Date Analyzed: 22-JAN-10 15:39

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: RE12-10-7633

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125045a

Date Analyzed: 26-JAN-10 08:58

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
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7633

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220022.wiff

Date Analyzed: 22-JAN-10 15:55

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: RE12-10-7647

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125046a

Date Analyzed: 26-JAN-10 09:28

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7647

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220023.wiff

Date Analyzed: 22-JAN-10 16:11

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7644

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125050a

Date Analyzed: 26-JAN-10 11:26

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	RDY	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
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7644

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220027.wiff

Date Analyzed: 22-JAN-10 17:13

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: RE12-10-7637

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125051a

Date Analyzed: 26-JAN-10 11:56

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7637

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220028.wiff

Date Analyzed: 22-JAN-10 17:29

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: RE12-10-7635

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125052a

Date Analyzed: 26-JAN-10 12:25

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7635

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220029.wiff

Date Analyzed: 22-JAN-10 17:45

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: RE12-10-7642

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125053a

Date Analyzed: 26-JAN-10 12:55

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 Concentrated Extract Volume X Dilution Factor
Sample Amount

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7642

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220030.wiff

Date Analyzed: 22-JAN-10 18:01

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: RE12-10-7649

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125054a

Date Analyzed: 26-JAN-10 13:24

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7649

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220031.wiff

Date Analyzed: 22-JAN-10 18:16

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: RE12-10-7650

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125055a

Date Analyzed: 26-JAN-10 13:54

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7650

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220032.wiff

Date Analyzed: 22-JAN-10 18:32

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7641

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125056a

Date Analyzed: 26-JAN-10 14:23

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7641

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220033.wiff

Date Analyzed: 22-JAN-10 18:48

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: RE12-10-7643

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125057a

Date Analyzed: 26-JAN-10 14:53

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7643

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220034.wiff

Date Analyzed: 22-JAN-10 19:03

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: RE12-10-7640

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125058a

Date Analyzed: 26-JAN-10 15:22

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7640

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220035.wiff

Date Analyzed: 22-JAN-10 19:19

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: RE12-10-7645

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125059a

Date Analyzed: 26-JAN-10 15:51

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7645

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220036.wiff

Date Analyzed: 22-JAN-10 19:35

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: RE12-10-7646

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125063a

Date Analyzed: 26-JAN-10 17:49

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
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7646

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220040.wiff

Date Analyzed: 22-JAN-10 20:38

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7636

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125064a

Date Analyzed: 26-JAN-10 18:19

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7636

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220041.wiff

Date Analyzed: 22-JAN-10 20:53

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7657

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126019

Sample Amount 2

Moisture: 10.1

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125065a

Date Analyzed: 26-JAN-10 18:49

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7657

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126019

Sample Amount 2

Moisture: 10.1

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220042.wiff

Date Analyzed: 22-JAN-10 21:09

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7658

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126020

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125066a

Date Analyzed: 26-JAN-10 19:18

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7658

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126020

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220043.wiff

Date Analyzed: 22-JAN-10 21:25

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

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
244126001	RE12-10-7634	107	73.7 - 133.3	
244126001	RE12-10-7634	117	73.7 - 133.3	
244126002	RE12-10-7648	108	73.7 - 133.3	
244126002	RE12-10-7648	118	73.7 - 133.3	
244126003	RE12-10-7638	108	73.7 - 133.3	
244126003	RE12-10-7638	118	73.7 - 133.3	
244126004	RE12-10-7639	102	73.7 - 133.3	
244126004	RE12-10-7639	117	73.7 - 133.3	
244126005	RE12-10-7633	112	73.7 - 133.3	
244126005	RE12-10-7633	118	73.7 - 133.3	
244126006	RE12-10-7647	118	73.7 - 133.3	
244126006	RE12-10-7647	117	73.7 - 133.3	
244126007	RE12-10-7644	108	73.7 - 133.3	
244126007	RE12-10-7644	114	73.7 - 133.3	
244126008	RE12-10-7637	109	73.7 - 133.3	
244126008	RE12-10-7637	115	73.7 - 133.3	
244126009	RE12-10-7635	114	73.7 - 133.3	
244126009	RE12-10-7635	116	73.7 - 133.3	
244126010	RE12-10-7642	110	73.7 - 133.3	
244126010	RE12-10-7642	119	73.7 - 133.3	
244126011	RE12-10-7649	111	73.7 - 133.3	
244126011	RE12-10-7649	114	73.7 - 133.3	
244126012	RE12-10-7650	106	73.7 - 133.3	
244126012	RE12-10-7650	124	73.7 - 133.3	
244126013	RE12-10-7641	111	73.7 - 133.3	
244126013	RE12-10-7641	110	73.7 - 133.3	
244126014	RE12-10-7643	113	73.7 - 133.3	
244126014	RE12-10-7643	112	73.7 - 133.3	
244126015	RE12-10-7640	110	73.7 - 133.3	
244126015	RE12-10-7640	120	73.7 - 133.3	
244126016	RE12-10-7645	111	73.7 - 133.3	
244126016	RE12-10-7645	120	73.7 - 133.3	
244126017	RE12-10-7646	109	73.7 - 133.3	
244126017	RE12-10-7646	116	73.7 - 133.3	
244126018	RE12-10-7636	122	73.7 - 133.3	
244126018	RE12-10-7636	118	73.7 - 133.3	
244126019	RE12-10-7657	109	73.7 - 133.3	

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
244126019	RE12-10-7657	115	73.7 - 133.3	
244126020	RE12-10-7658	105	73.7 - 133.3	
244126020	RE12-10-7658	114	73.7 - 133.3	
1202011683	MB for batch 940063	101	73.7 - 133.3	
1202011683	MB for batch 940063	114	73.7 - 133.3	
1202011684	LCS for batch 940063	114	73.7 - 133.3	
1202011684	LCS for batch 940063	118	73.7 - 133.3	
1202011685	RE12-10-7634(244126001MS)	109	73.7 - 133.3	
1202011685	RE12-10-7634(244126001MS)	113	73.7 - 133.3	
1202011686	RE12-10-7634(244126001MSD)	99.5	73.7 - 133.3	
1202011686	RE12-10-7634(244126001MSD)	112	73.7 - 133.3	

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) 10-1131

Extract Batch Code: 940063

Date Extracted: 19-JAN-10

GEL LCS ID: 1202011684

GEL LCSDUP ID:

Analysis Date/Time: 26-JAN-10 05:32

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,6-Dinitrotoluene	5000	5030	101					86.9 – 122
2-Amino-4,6-dinitrotoluene	5000	5510	110					84.2 – 149
4-Amino-2,6-dinitrotoluene	5000	5900	118					85.6 – 133
HMX	5000	4940	98.7					66.5 – 142
Nitrobenzene	5000	5030	101					71.8 – 126
2,4-Dinitrotoluene	5000	4990	99.8					82.7 – 132
2,4,6-Trinitrotoluene	5000	5400	108					78.3 – 132
1,3,5-Trinitrobenzene	5000	4920	98.3					62.1 – 124
PETN	5000	6040	121					64.6 – 147
RDX	5000	5940	119					78.7 – 144
Tetryl	5000	3180	63.6					31.2 – 119
m-Dinitrobenzene	5000	5210	104					80.9 – 127
m-Nitrotoluene	5000	4900	98					71.9 – 126
o-Nitrotoluene	5000	4900	98					75 – 123
p-Nitrotoluene	5000	4940	98.8					73.7 – 124

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) 10-1131

Extract Batch Code: 940063

Date Extracted: 19-JAN-10

GEL LCS ID: 1202011684

GEL LCSDUP ID:

Analysis Date/Time: 22-JAN-10 14:05

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	4680	93.6					64.8 - 128
2,6-Diamino-4-nitrotoluene	5000	5100	102					69.6 - 133
TATB	5000	4960	99.2					46.8 - 166
tris(o-cresyl) phosphate	5000	5030	101					84.3 - 120
3,5-Dinitroaniline	5000	5380	108					77.3 - 123

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: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Extract Batch Code: 940063

Date Extracted: 19-JAN-10

GEL Spike ID: 1202011685

GEL SpikeDup ID: 1202011686

Analysis Date/Time: 26-JAN-10 06:31

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
1,3,5-Trinitrobenzene	5000	0	5290	106	5320	106	.662	30	70.7 - 130
2,4,6-Trinitrotoluene	5000	0	5580	112	5080	102	9.37	30	83.4 - 138
2,4-Dinitrotoluene	5000	0	5240	105	5360	107	2.34	30	79.1 - 137
2,6-Dinitrotoluene	5000	0	5010	100	4940	98.9	1.25	30	85.4 - 125
2-Amino-4,6-dinitrotoluene	5000	0	5550	111	5190	104	6.67	30	77.4 - 154
4-Amino-2,6-dinitrotoluene	5000	0	5690	114	5350	107	6.19	30	77.3 - 140
HMX	5000	0	5490	110	5480	110	.205	30	66.7 - 144
Nitrobenzene	5000	0	5070	101	4790	95.8	5.8	30	70.4 - 129
PETN	5000	0	5510	110	4990	99.8	9.92	30	61.9 - 153
RDX	5000	0	5540	111	5460	109	1.38	30	73 - 140
Tetryl	5000	0	3840	76.8	3870	77.3	.615	30	46.8 - 138
m-Dinitrobenzene	5000	0	5200	104	5080	102	2.28	30	83.5 - 126
m-Nitrotoluene	5000	0	5060	101	4560	91.1	10.5	30	68.6 - 135
o-Nitrotoluene	5000	0	4640	92.9	4600	92	.918	30	71.2 - 131
p-Nitrotoluene	5000	0	4980	99.6	4740	94.8	5.01	30	69.3 - 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: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Extract Batch Code: 940063

Date Extracted: 19-JAN-10

GEL Spike ID: 1202011685

GEL SpikeDup ID: 1202011686

Analysis Date/Time: 22-JAN-10 14:36

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	4220	84.4	4490	89.8	6.2	30	51.6 - 127
2,6-Diamino-4-nitrotoluene	5000	0	4580	91.6	4660	93.2	1.73	30	58.9 - 135
3,5-Dinitroaniline	5000	0	5460	109	5560	111	1.82	30	72.8 - 125
tris(o-cresyl) phosphate	5000	0	4940	98.8	4910	98.2	.609	30	79.1 - 124
TATB	5000	0	4950	99	5120	102	3.38	30	43.9 - 166

#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): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 25-JAN-10 11:20

GEL Data File: EXP0125001a

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	557.589
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	586.101
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

Printed: Tue Jan 26 11:27:45 2010, Page 1 of 73

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\012510expa.mdb, Time: Mon Jan 25 16:14:14 2010
Calibration: Untitled, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125001a

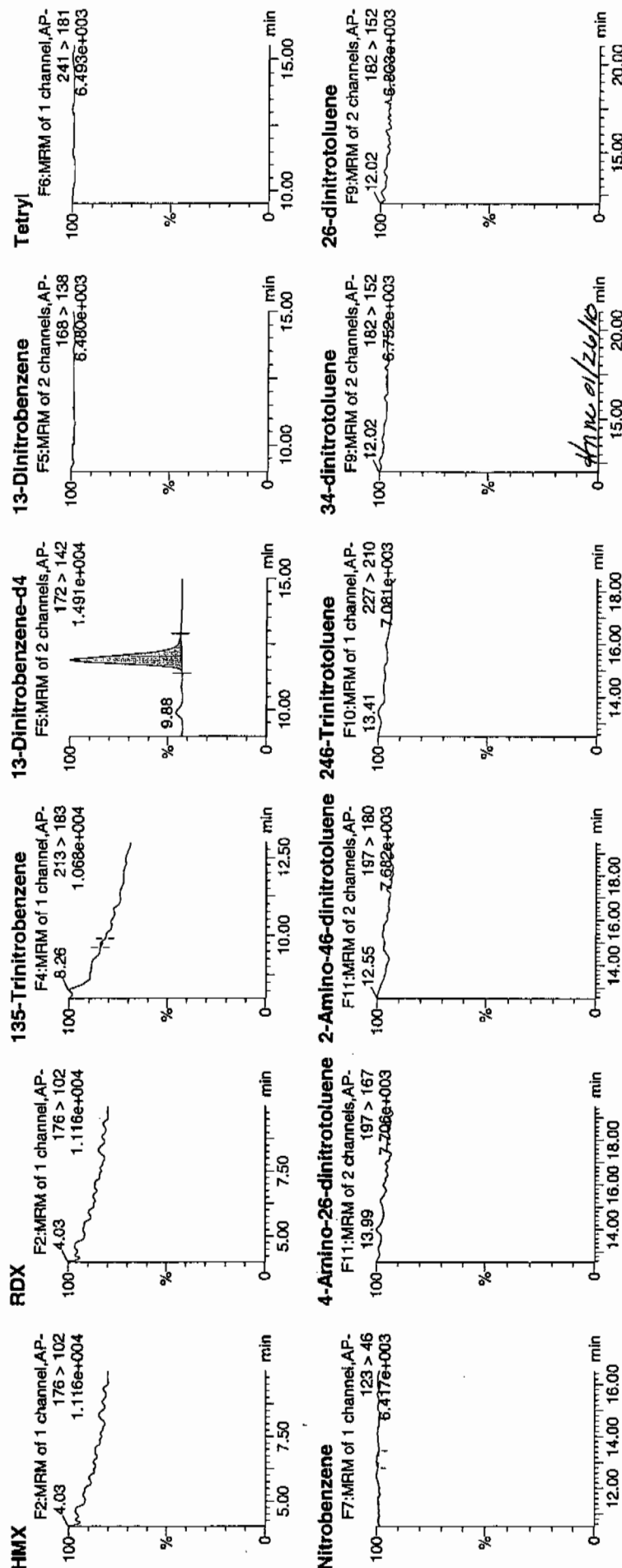
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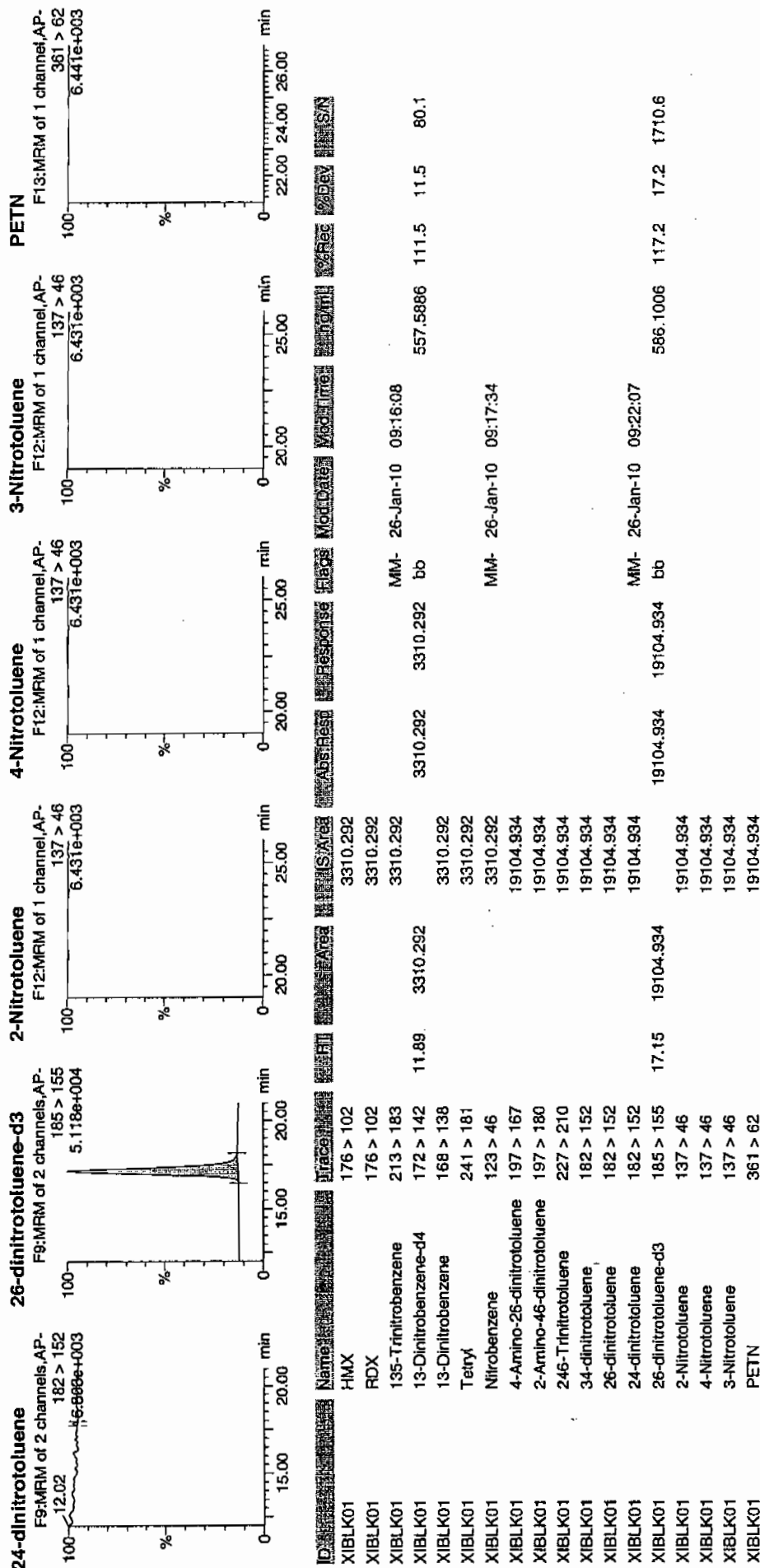
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Vial: 1:1,A

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Dataset: C:\MASSLYN\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 25-JAN-10 11:50

GEL Data File: EXP0125002a

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	490.527
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	511.129
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

Printed: Tue Jan 26 11:27:45 2010, Page 3 of 73

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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

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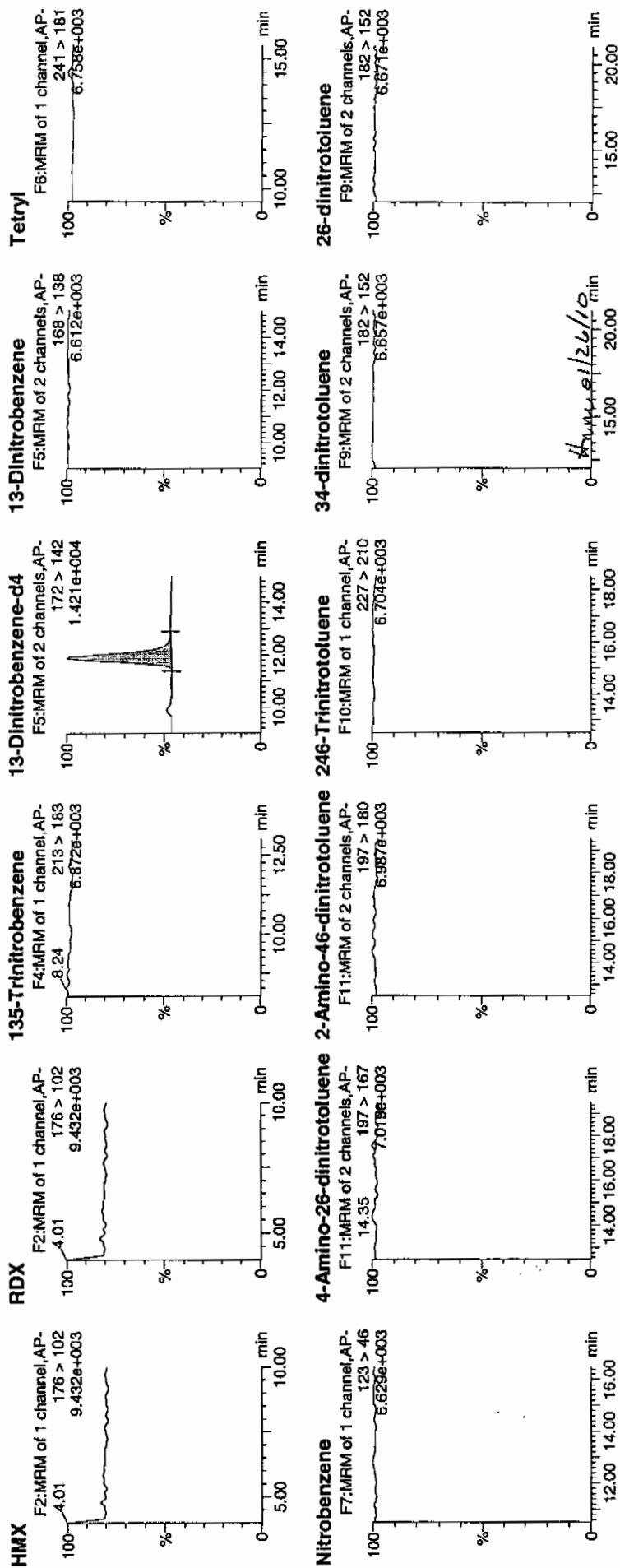
Date: 25-Jan-2010

Time: 11:50:16

ID: XIBLK01

Vial: 1:1,A

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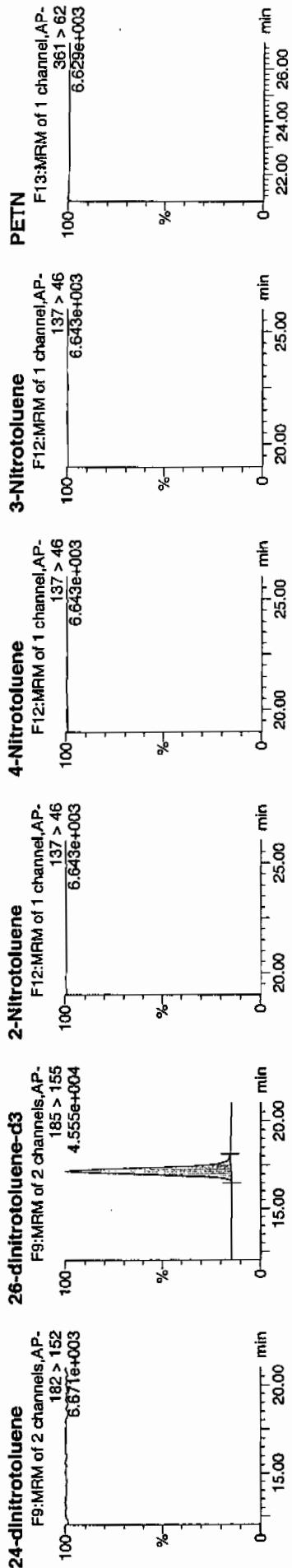


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Jan 26 11:27:45 2010, Page 4 of 73

Dataset: C:\MASSLYN\New_Exp\PRO1012510expA.qld, Time: Tue Jan 26 09:24:51 2010



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XIBLK01	RDX	176 > 102	2912.163									
XIBLK01	135-Trinitrobenzene	213 > 183	2912.163									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	11.89	2912.163								
XIBLK01	13-Dinitrobenzene	168 > 138			2912.163							
XIBLK01	Tetryl	241 > 181			2912.163							
XIBLK01	Nitrobenzene	123 > 46			2912.163							
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			16661.119							
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			16661.119							
XIBLK01	246-Trinitrotoluene	227 > 210			16661.119							
XIBLK01	34-dinitrotoluene	182 > 152			16661.119							
XIBLK01	26-dinitrotoluene	182 > 152			16661.119							
XIBLK01	24-dinitrotoluene	182 > 152			16661.119							
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.16	16661.119								
XIBLK01	2-Nitrotoluene	137 > 46			16661.119							
XIBLK01	4-Nitrotoluene	137 > 46			16661.119							
XIBLK01	3-Nitrotoluene	137 > 46			16661.119							
XIBLK01	PETN	361 > 62										
					16661.119	16661.119	bb		511.1293	102.2	2.2	1808.5
					2912.163	2912.163	bb		490.5274	98.1	-1.9	295.0

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-JAN-10 10:25

GEL Data File: EXS01220001.wiff

Instrument ID: LCMSMS

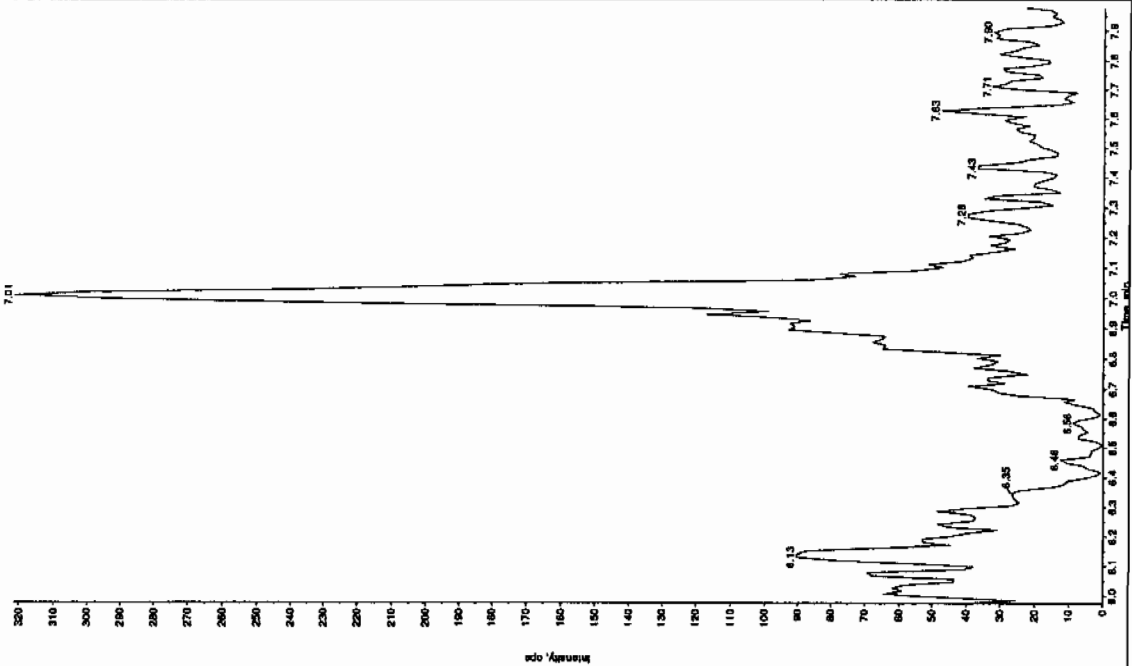
Column: Phenomenex Ultracarb 5u ODS(20)

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

See 125110

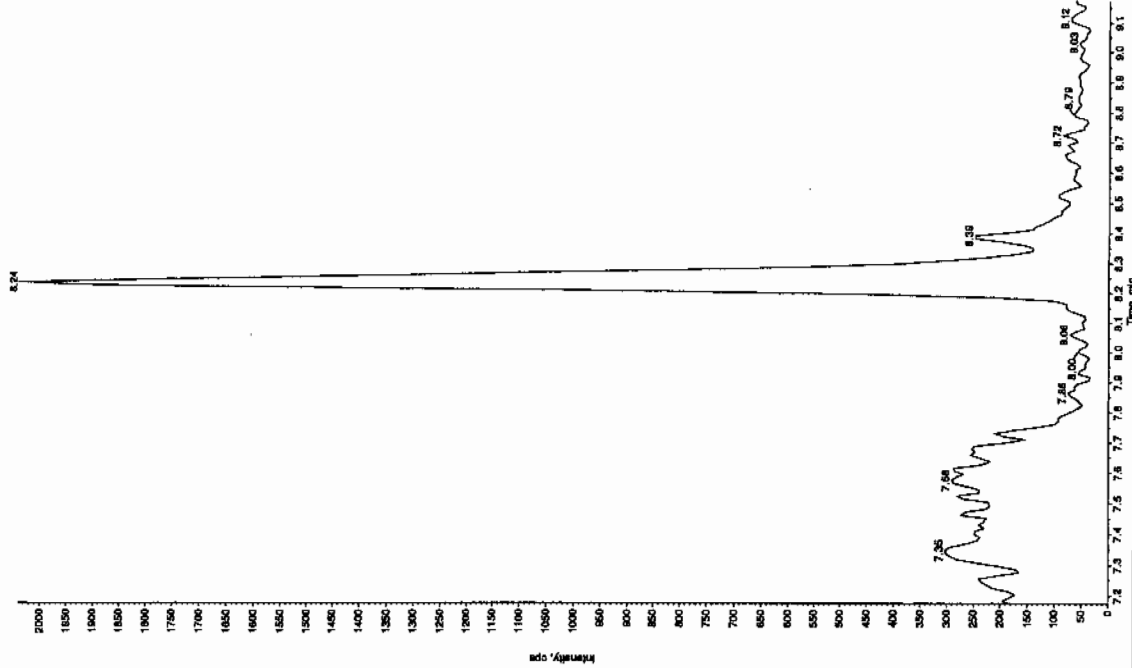
Sample Name: "XIBLX01" Sample ID: "11LER" File: "EX501220001.wif"
 Peak Name: "35-Dihydroquinone" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/23/2010
 Acq. Time: 10:25:42 AM
 Modified: No



Sample Name: "XIBLX01" Sample ID: "11LER" File: "EX501220001.wif"
 Peak Name: "35-Dihydroquinone" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

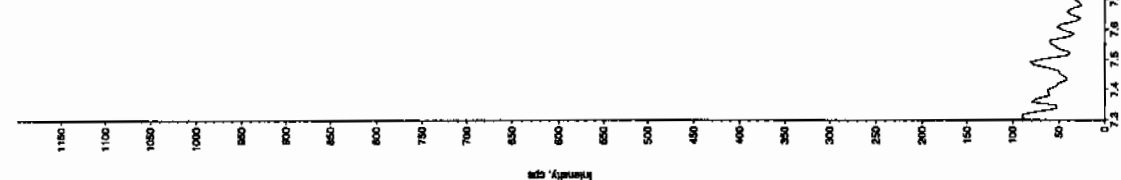
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/23/2010
 Acq. Time: 10:25:42 AM
 Modified: No



See 125110

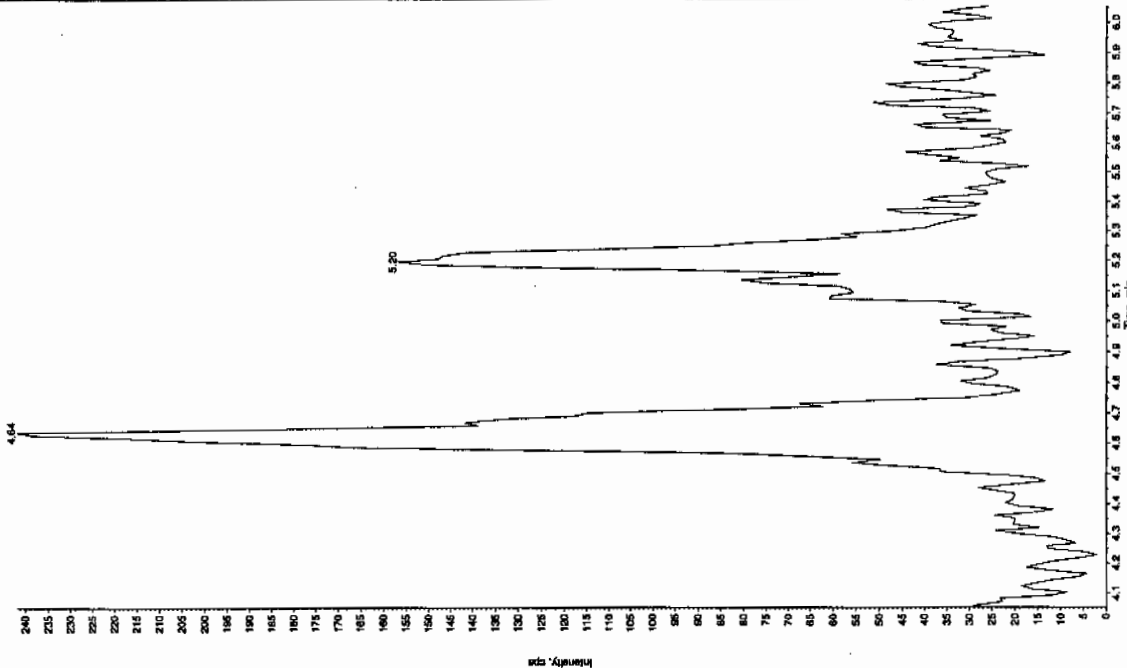
Sample Name: "XIBUX01" Sample ID: "111111" File: "EX501220001.wit"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 10:25:42 AM
 Modified: No



Sample Name: "XIBUX01" Sample ID: "111111" File: "EX501220001.wit"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0/146.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

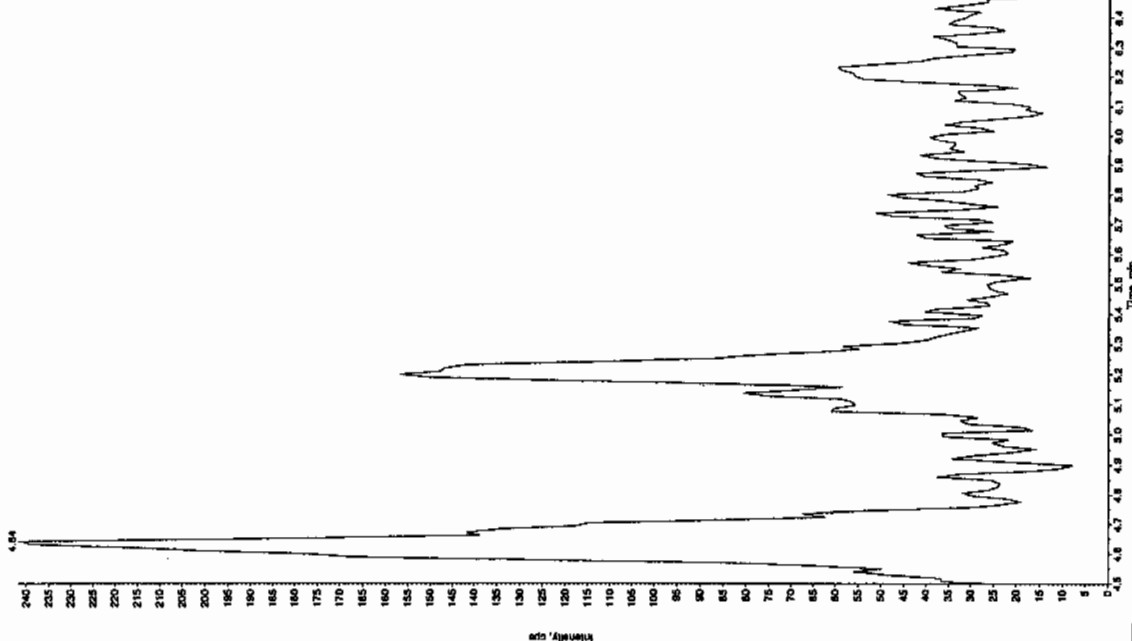
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 10:25:42 AM
 Modified: No



Sample Name: "XIBUK01" Sample ID: "JILLER" File: "EX501220001.wif"
Peak Name: "24-Dimethylnitrofluorene" Mass(es): "165.046.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/22/2010
Acq. Time: 10:25:42 AM
Modified: No

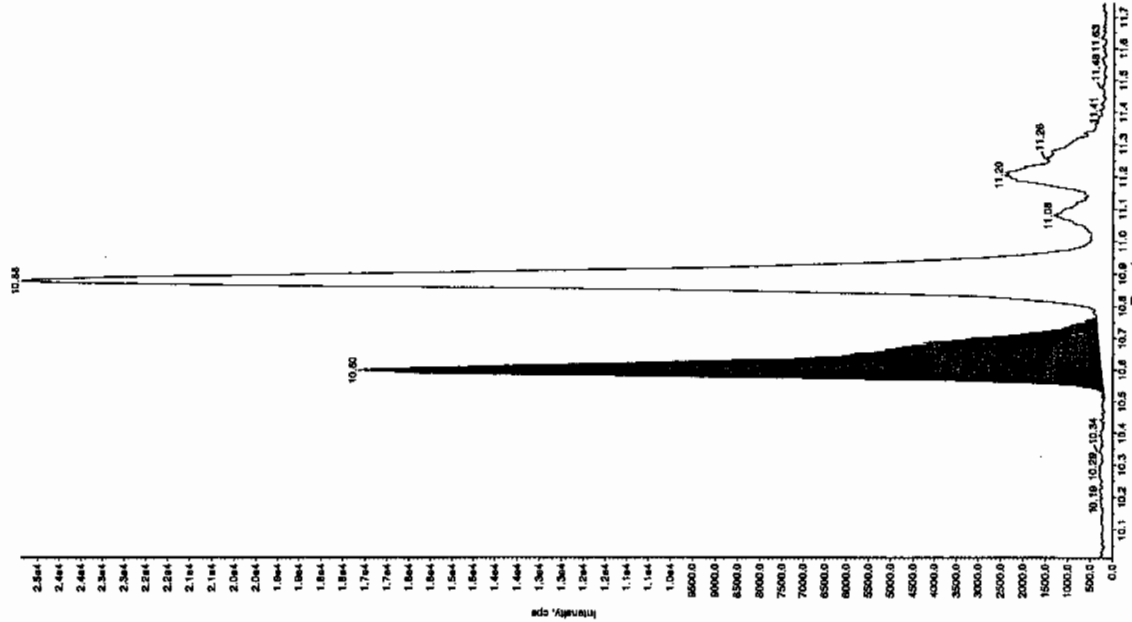
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1.00e4 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 10.7 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 10.6 min
Area: 7.50e+004 counts
Height: 16896.986 cps
Start Time: 10.5 min
End Time: 10.8 min



Sample Name: "XIBUK01" Sample ID: "JILLER" File: "EX501220001.wif"
Peak Name: "tri(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Acq. Date: 1/22/2010
Acq. Time: 10:25:42 AM
Modified: No

Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1.00e4 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 10.7 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 10.6 min
Area: 7.50e+004 counts
Height: 16896.986 cps
Start Time: 10.5 min
End Time: 10.8 min



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-JAN-10 10:41

GEL Data File: EXS01220002.wiff

Instrument ID: LCMSMS

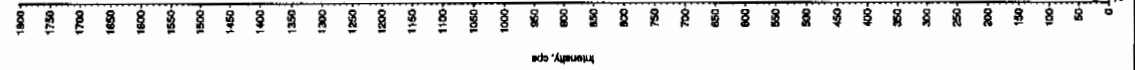
Column: Phenomenex Ultracarb 5u ODS(20)

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

lar 1/25/10

Sample Name: "XIBLK01" Sample ID: "JILLER" File: "EX501220002.wif"
 Peak Name: "35-Chloroaniline" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_B" Annotation: ""

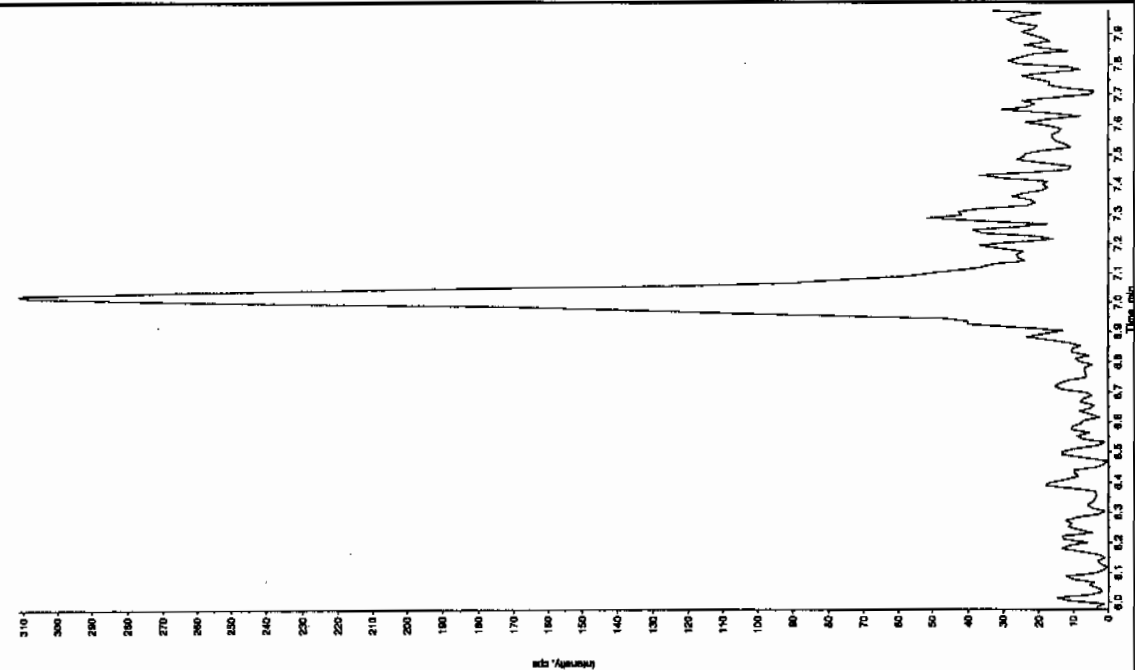
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 10:41:30 AM
 Acq. Time: 10:41:30 AM
 Modified: No



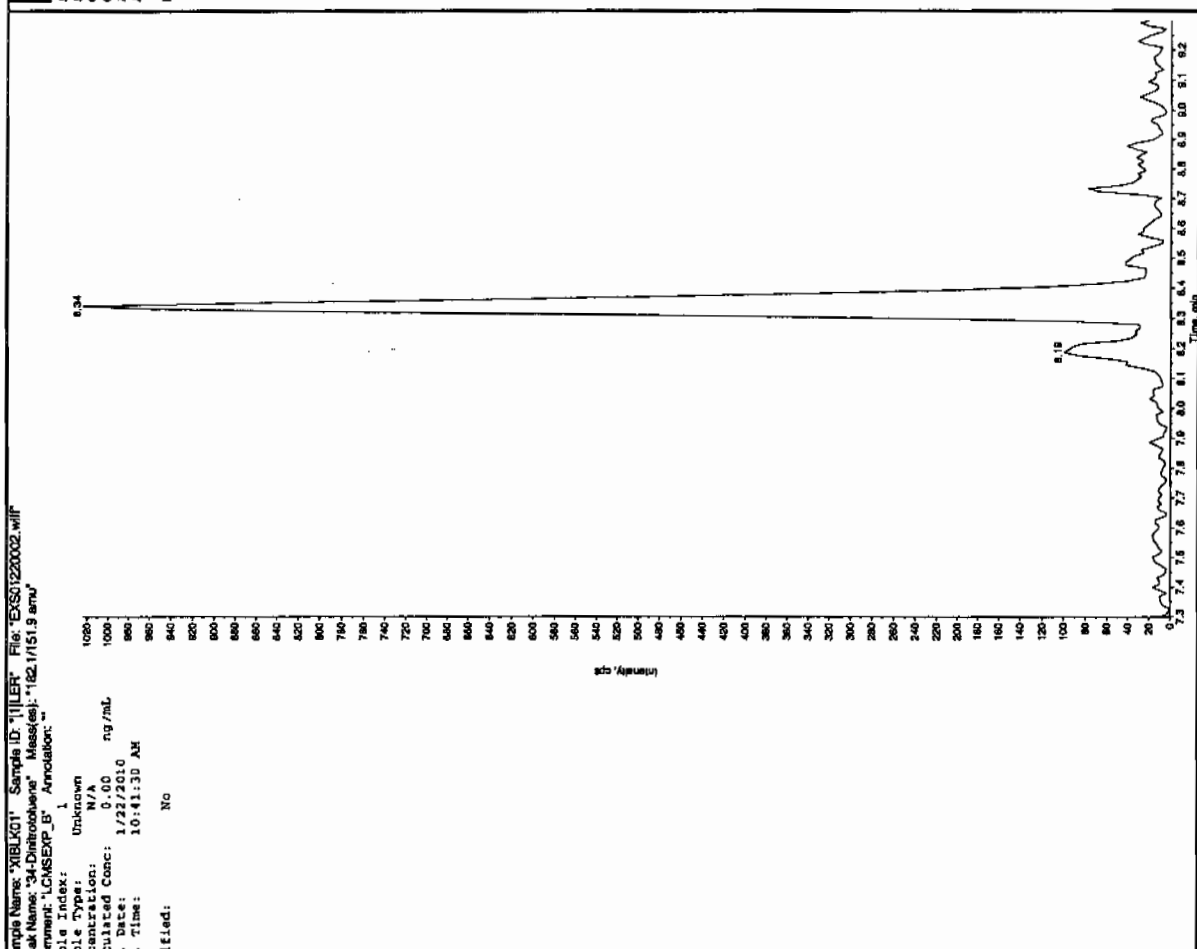
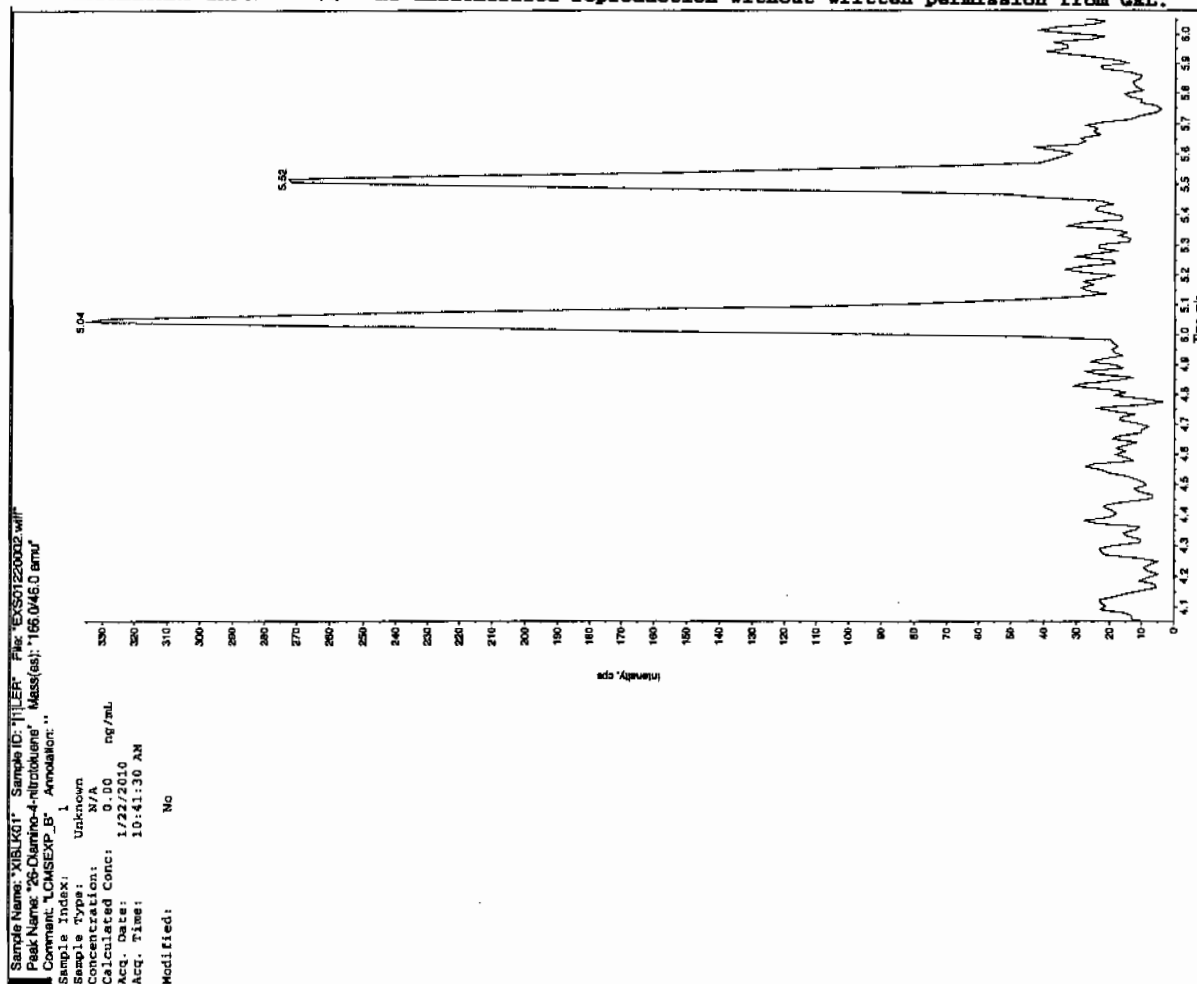
Arm 8/25/10

Sample Name: "XIBLK01" Sample ID: "JILLER" File: "EX501220002.wif"
 Peak Name: "1ATB" Mass(es): "257.22049 amu"
 Comment: "LCMSEXP_B" Annotation: ""

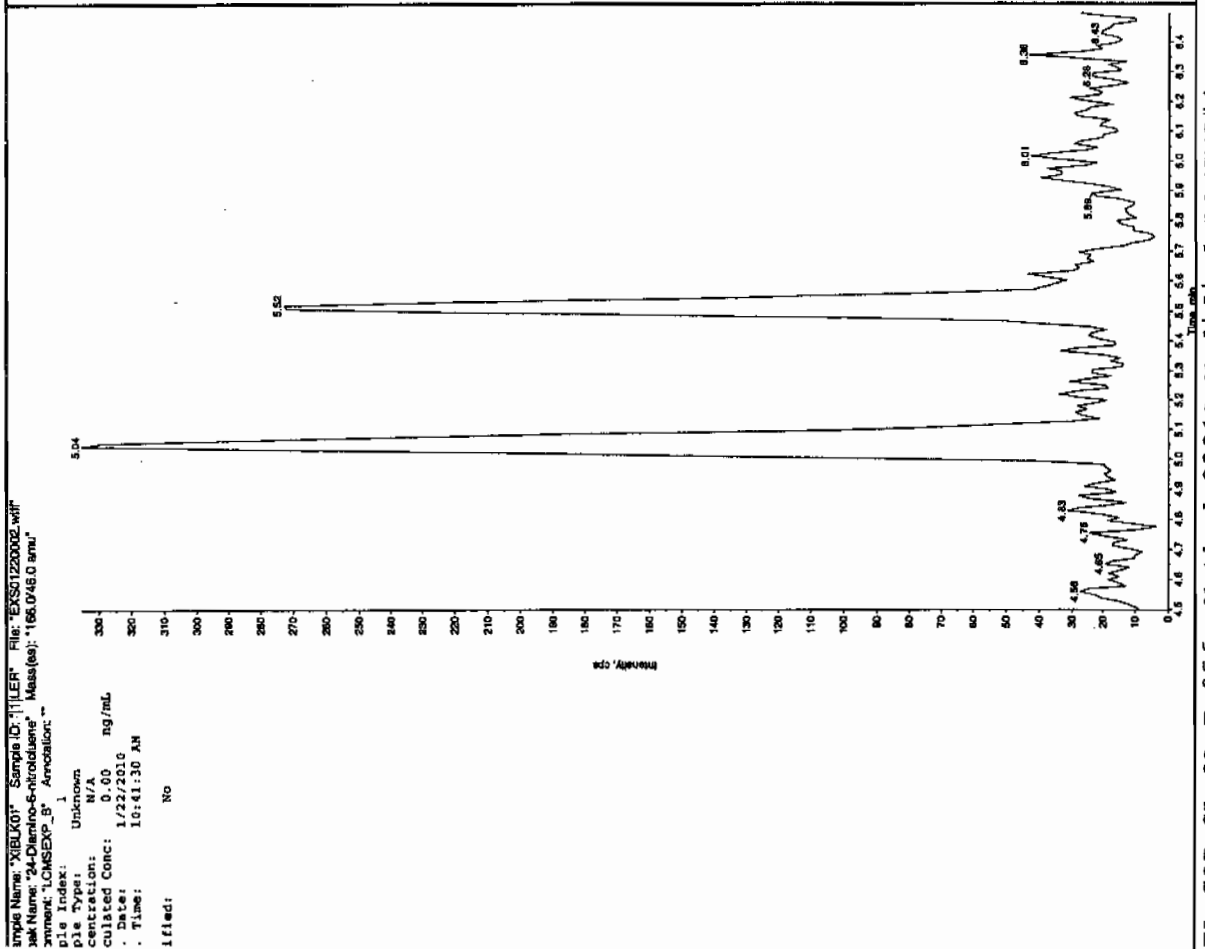
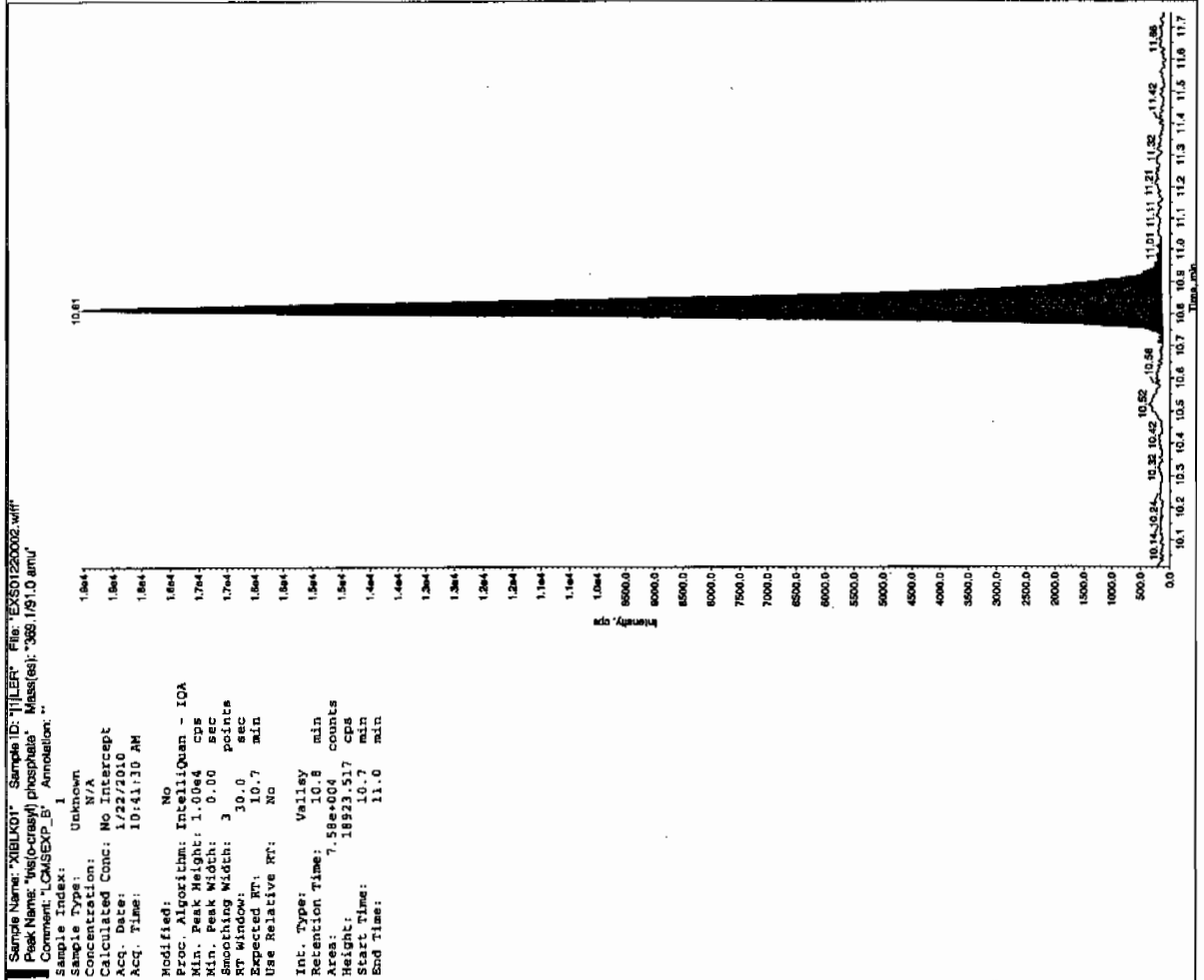
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 10:41:30 AM
 Acq. Time: 10:41:30 AM
 Modified: No



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



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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 25-JAN-10 15:16

GEL Data File: EXP0125009a

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	502.66
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	519.883
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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125009a

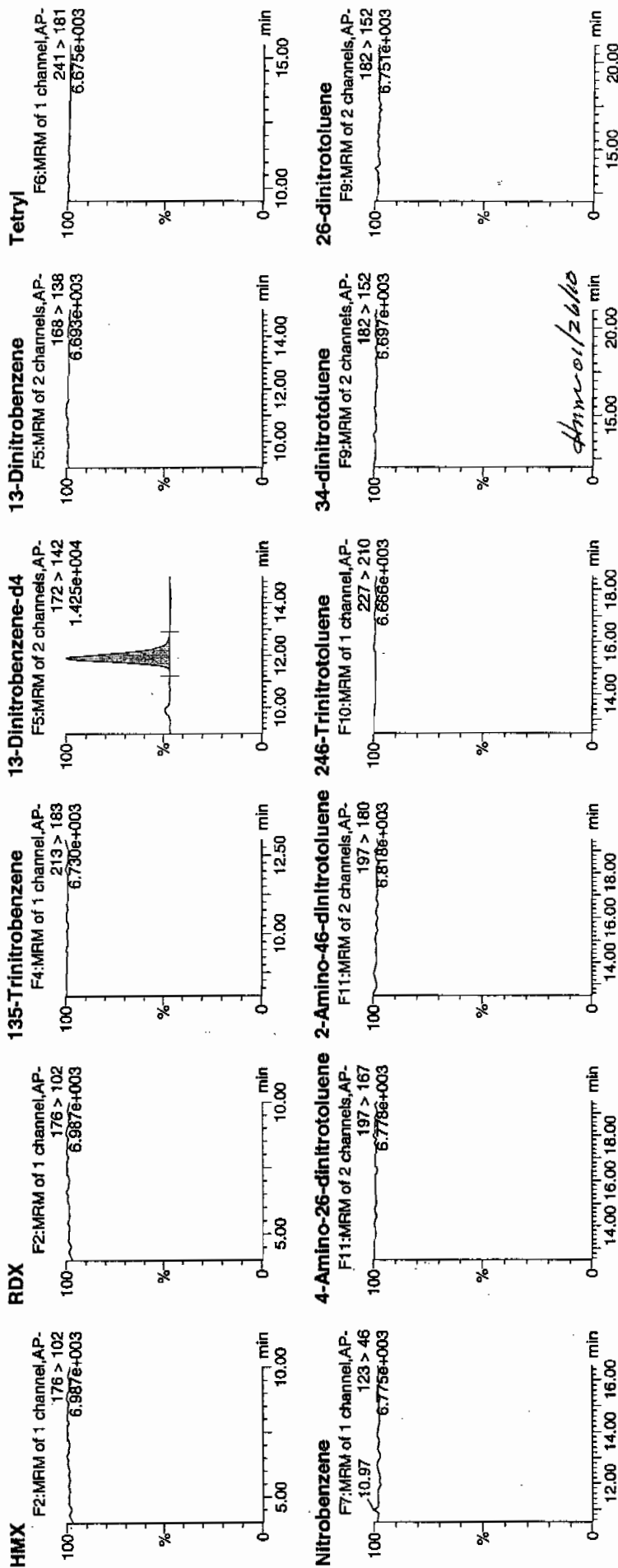
Date: 25-Jan-2010

Time: 15:16:35

ID: XIBLK02

Vial: 1:1,A

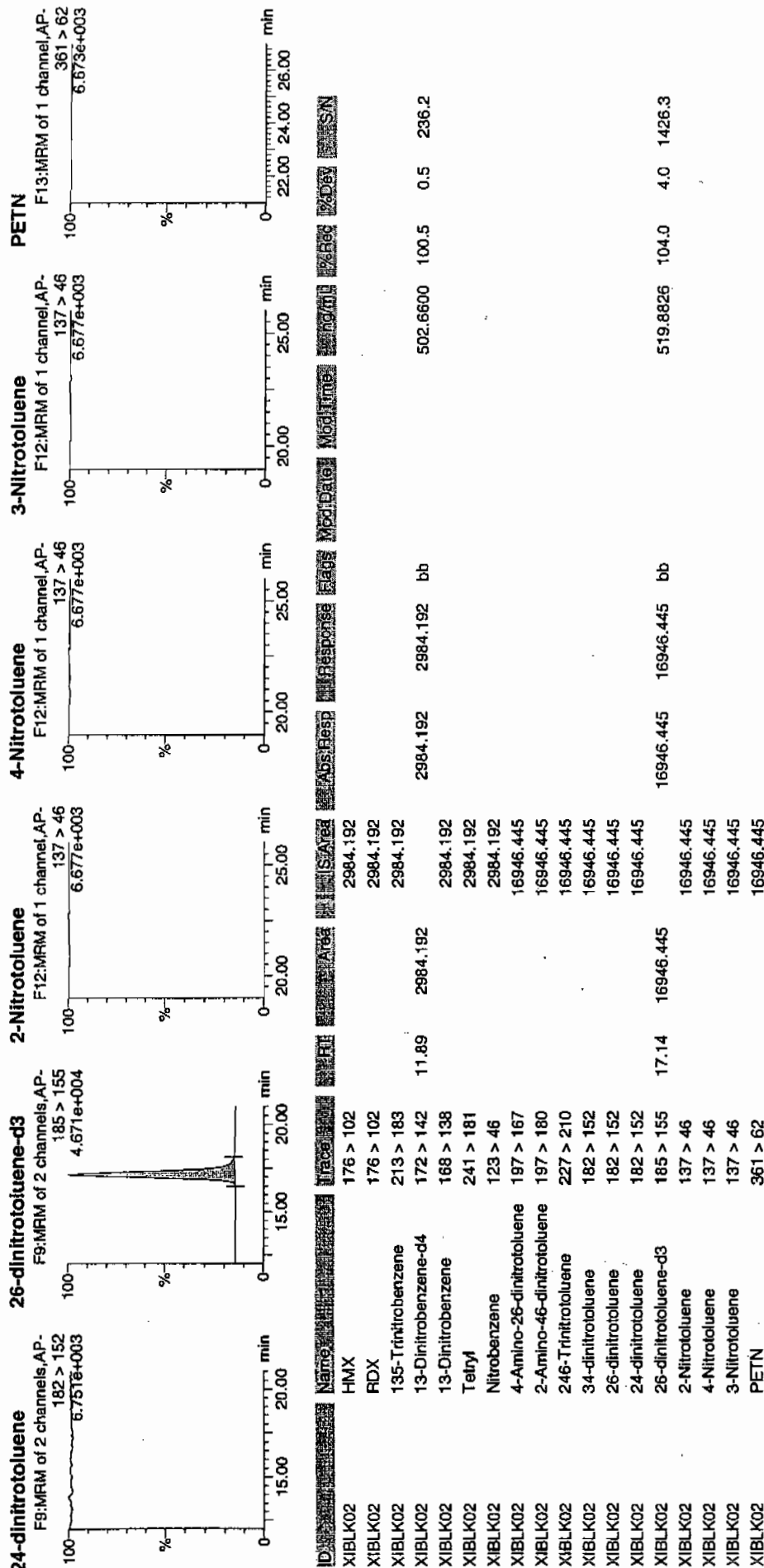
1/26/10
MJP



Printed: Tue Jan 26 11:27:45 2010, Page 18 of 73

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 25--JAN-10 16:15

GEL Data File: EXP0125011a

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	508.032
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	524.258
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125011a

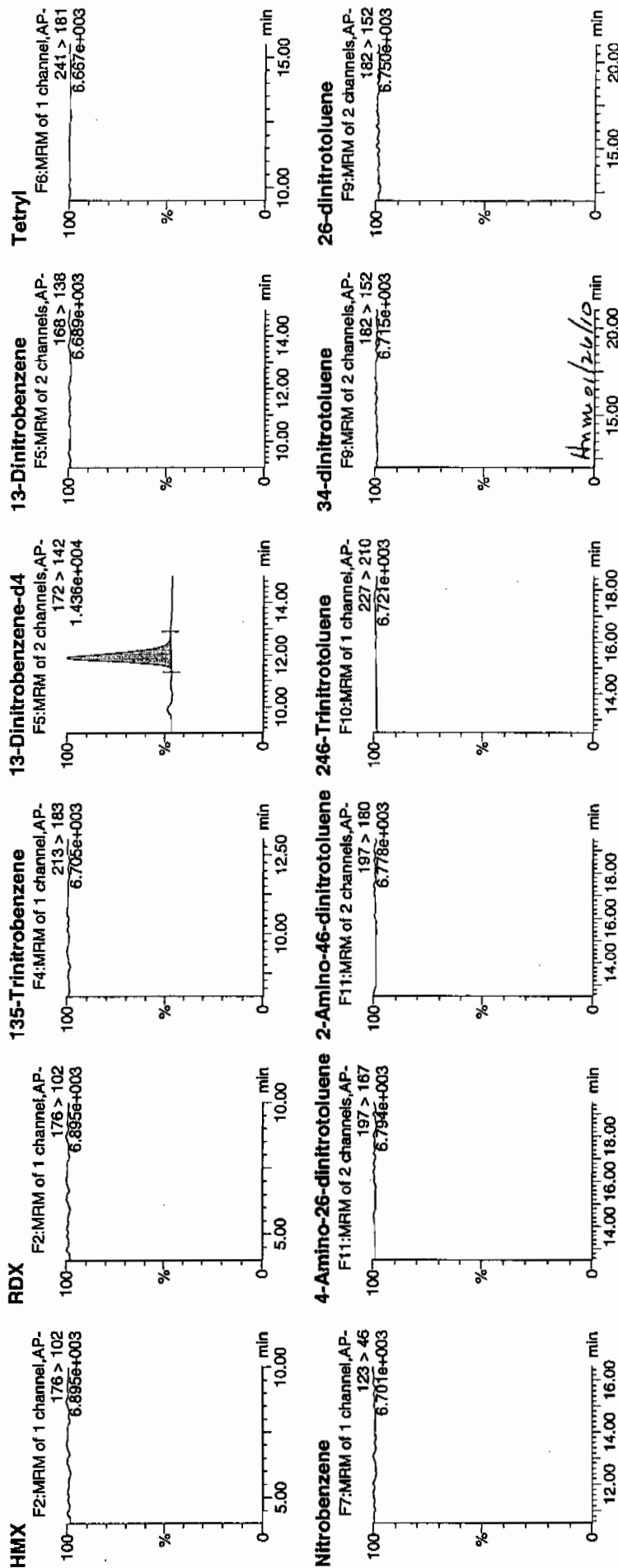
Date: 25-Jan-2010

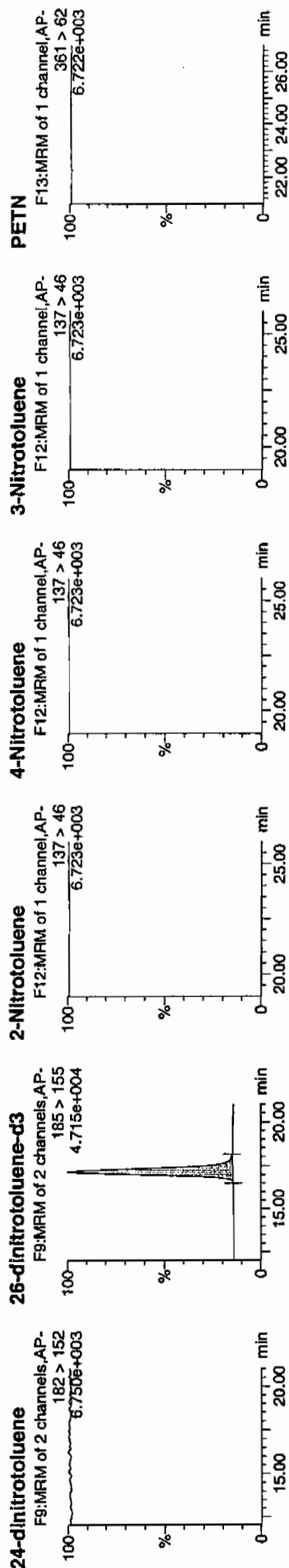
Time: 16:15:32

ID: XIBLK03

Vial: 1:1,A

1/26/10



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4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 25-JAN-10 22:39

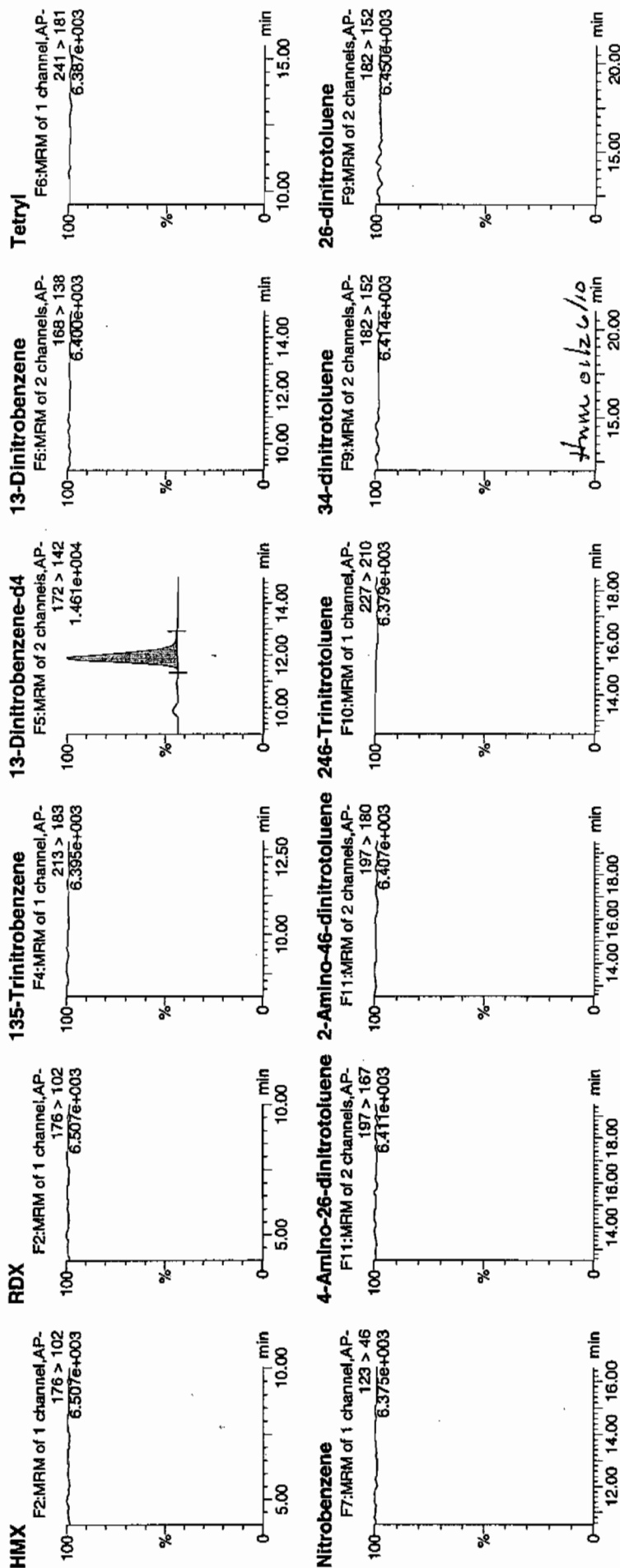
GEL Data File: EXP0125024a

Instrument ID: LCMSMS

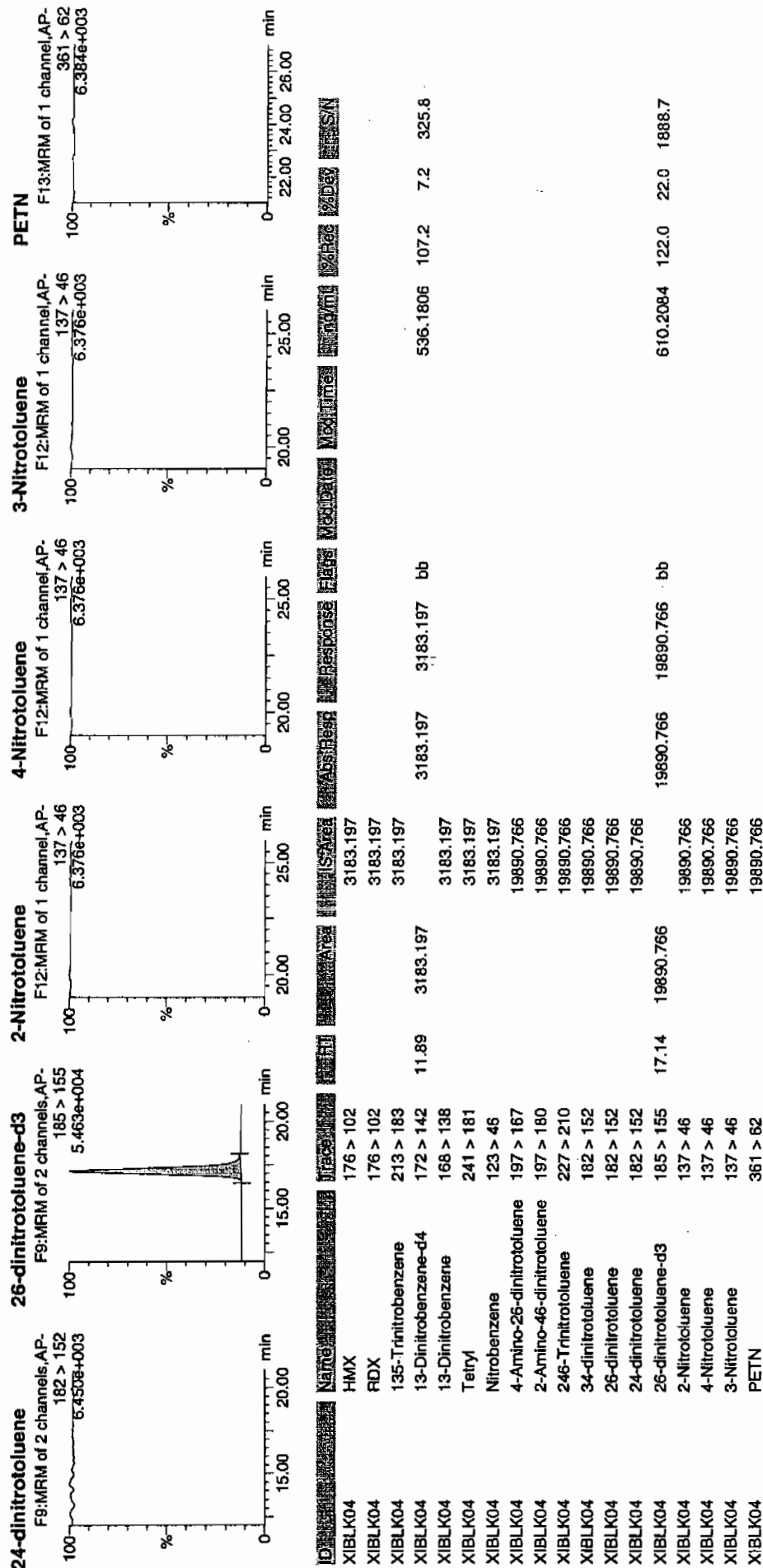
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	536.181
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	610.208
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny
 Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010
 Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125024a
 Date: 25-Jan-2010
 Time: 22:39:19
 ID: XIBLK04
 Vial: 1:1,A



Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 26-JAN-10 04:03

GEL Data File: EXP0125035a

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	530.31
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	567.52
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

Printed: Tue Jan 26 11:27:45 2010, Page 69 of 73

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125035a

Date: 26-Jan-2010

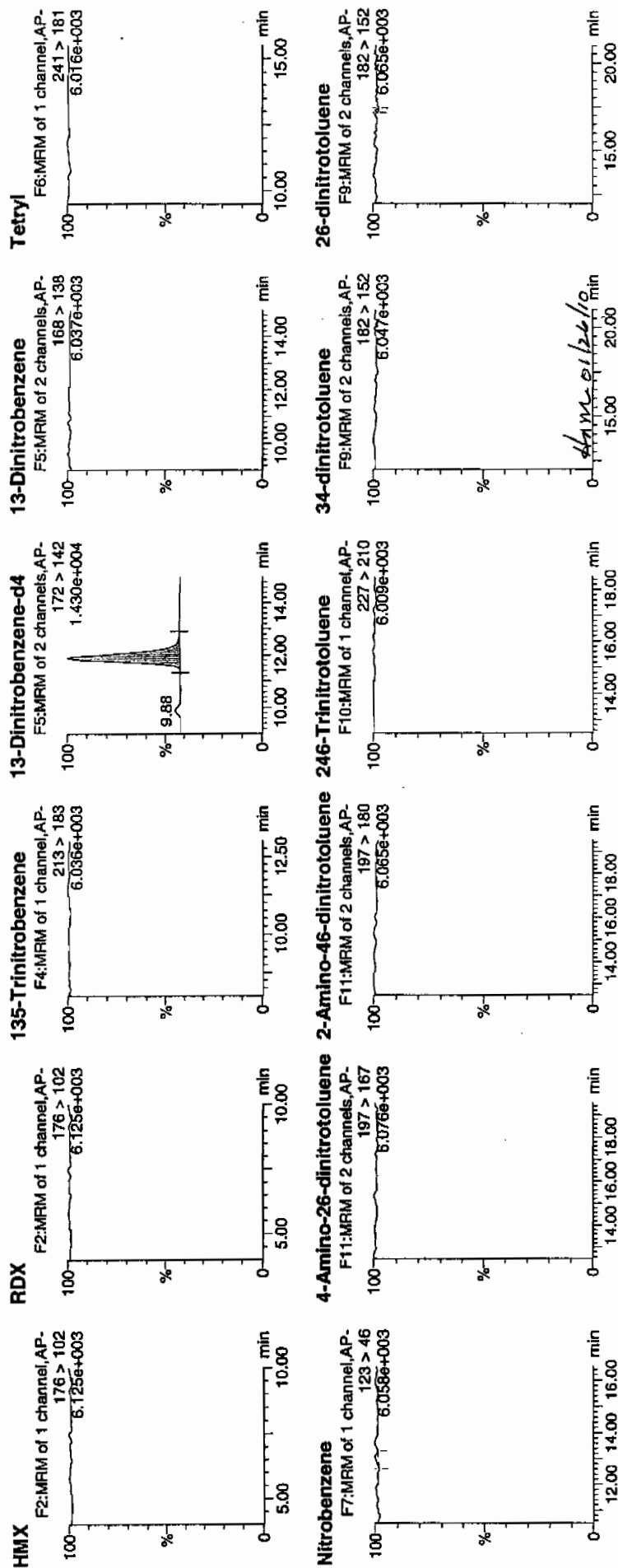
Time: 04:03:54

ID: XIBLK05

Vial: 1:1,A

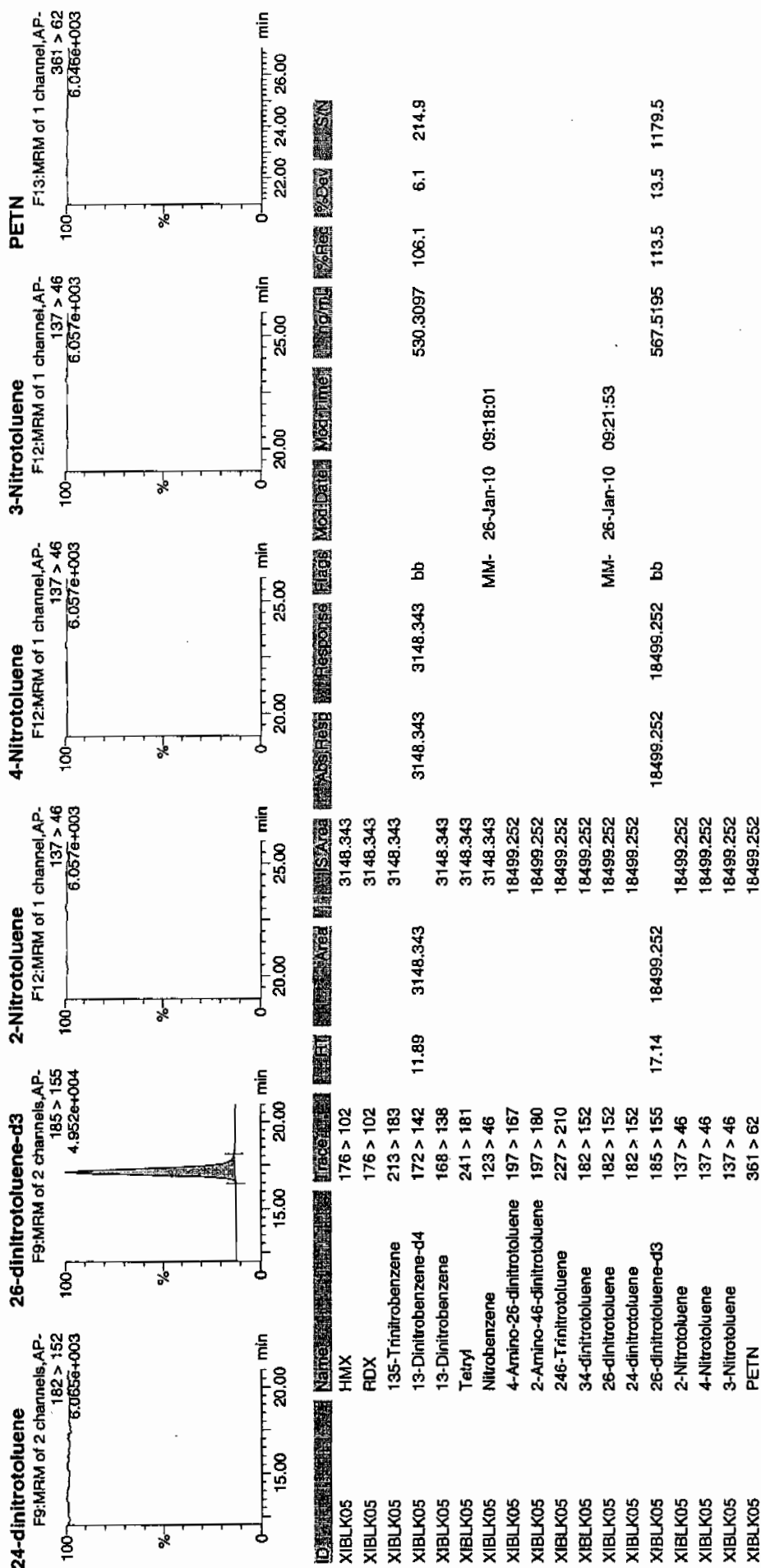
1/26/10
11:10

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Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

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4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 26-JAN-10 10:27

GEL Data File: EXP0125048a

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	526.699
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	549.419
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

Printed: Wed Jan 27 09:26:20 2010, Page 23 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125048a

Date: 26-Jan-2010

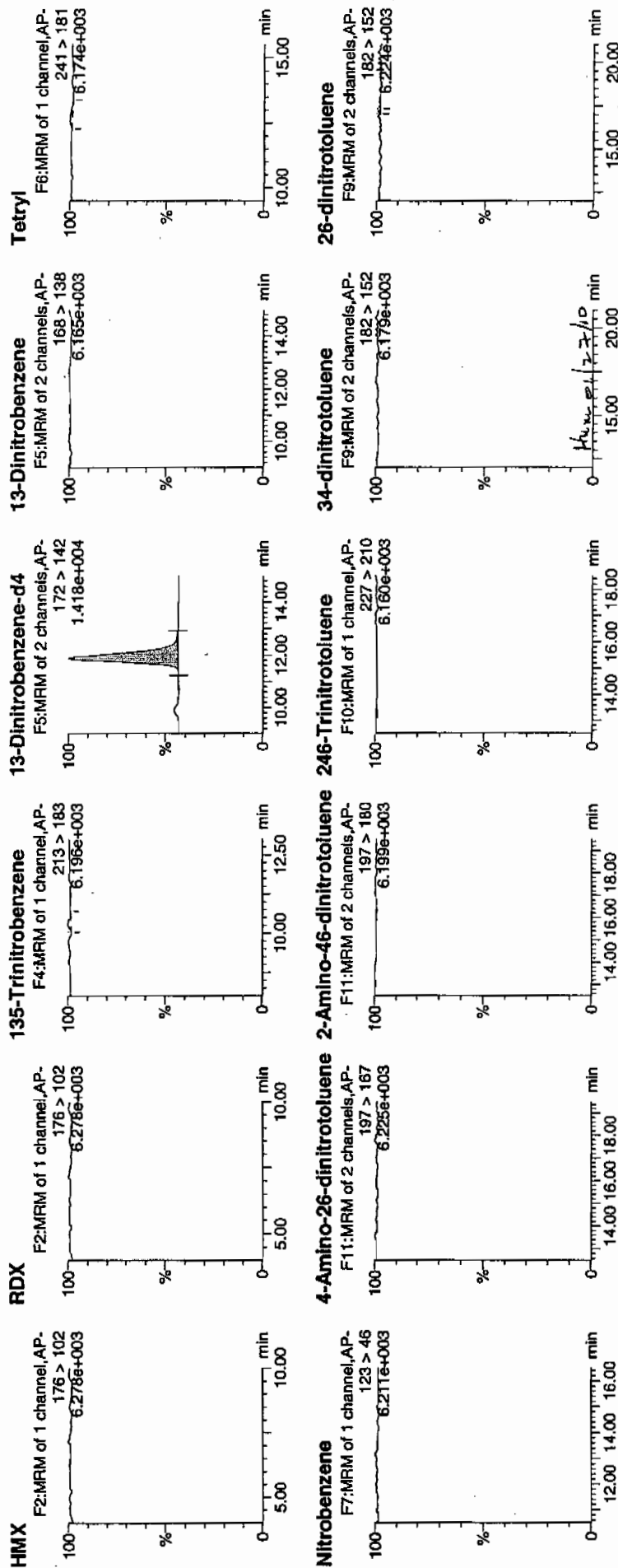
Time: 10:27:39

ID: XIBLK06

Vial: 1:1A

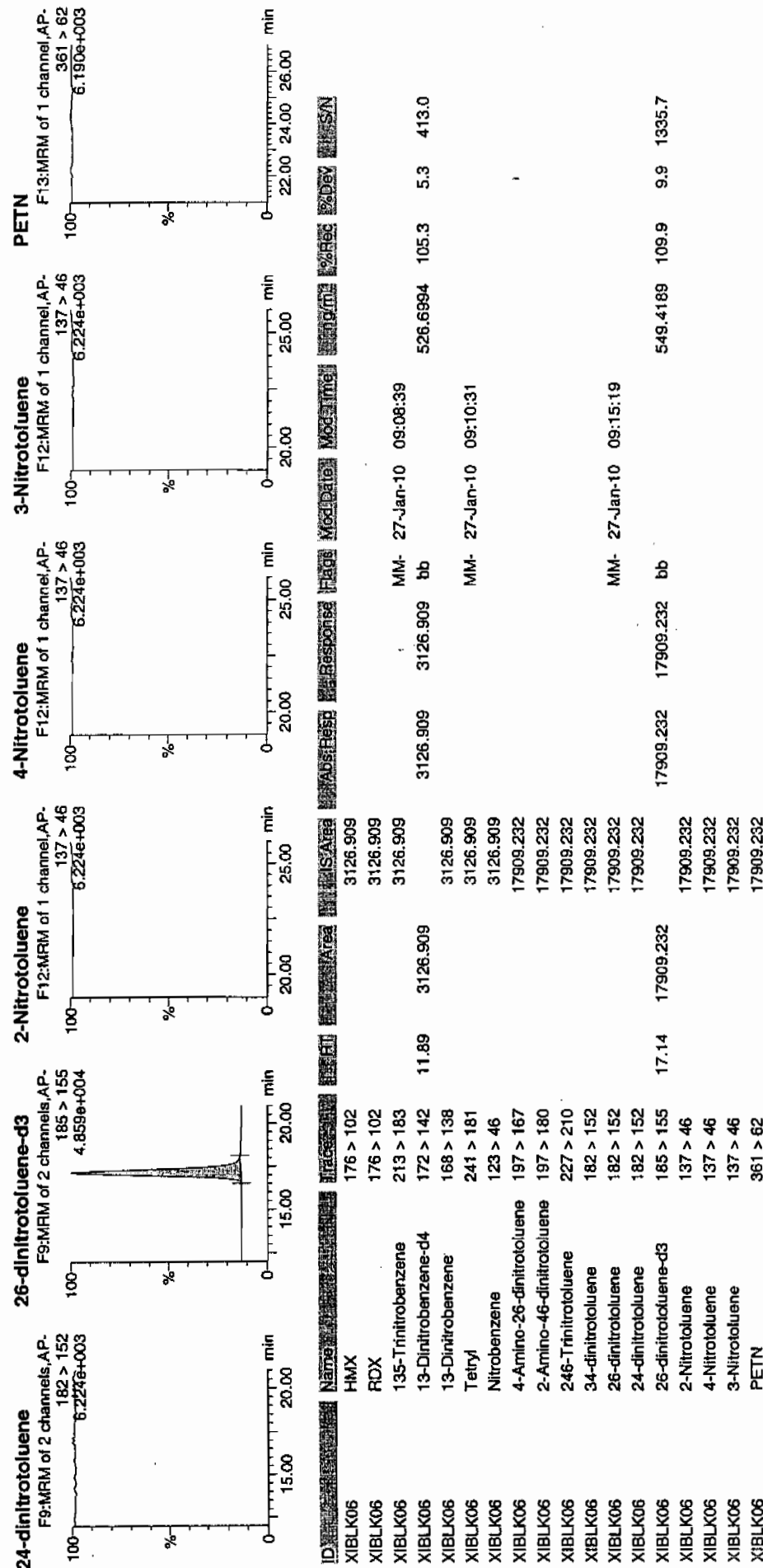
107
112/10

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 26-JAN-10 16:50

GEL Data File: EXP0125061a

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	597.432
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	608.457
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

Printed: Wed Jan 27 09:26:20 2010, Page 49 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125061a

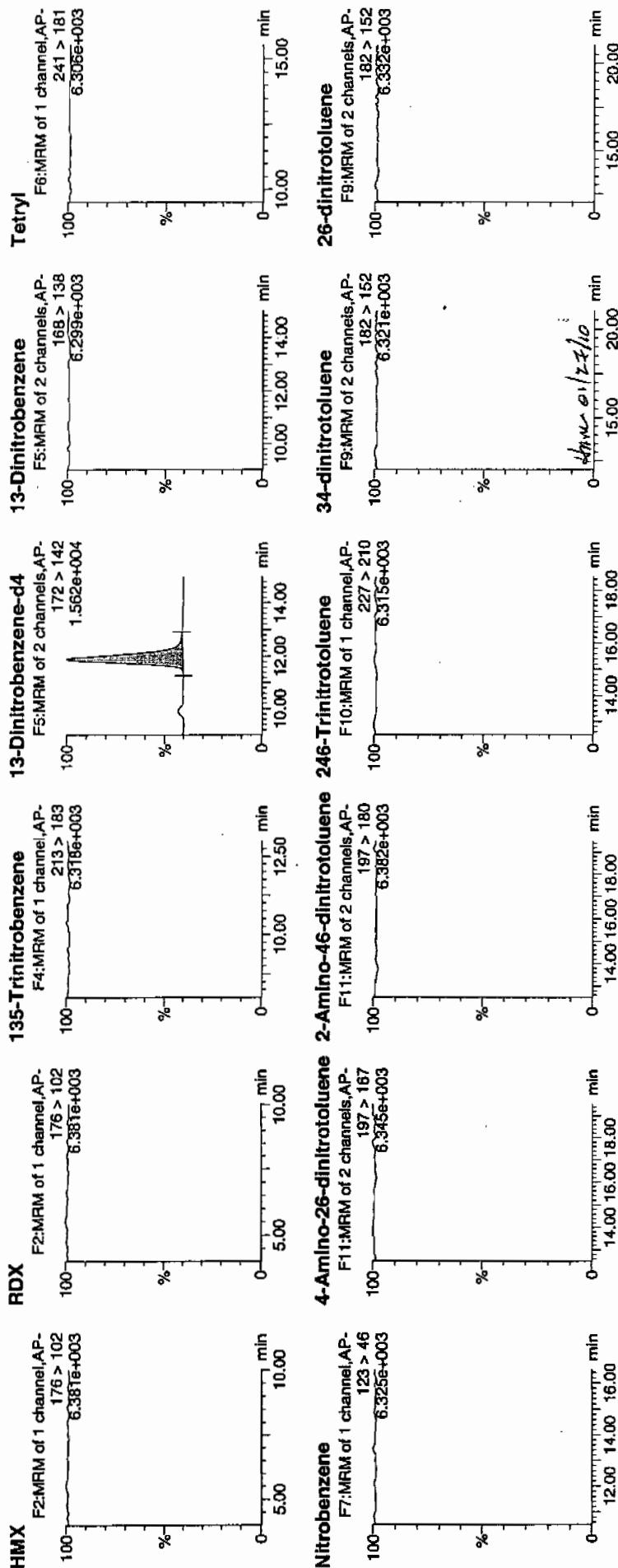
Date: 26-Jan-2010

Time: 16:50:59

ID: XIBLK07

Vial: 1:1,A

1/27/10

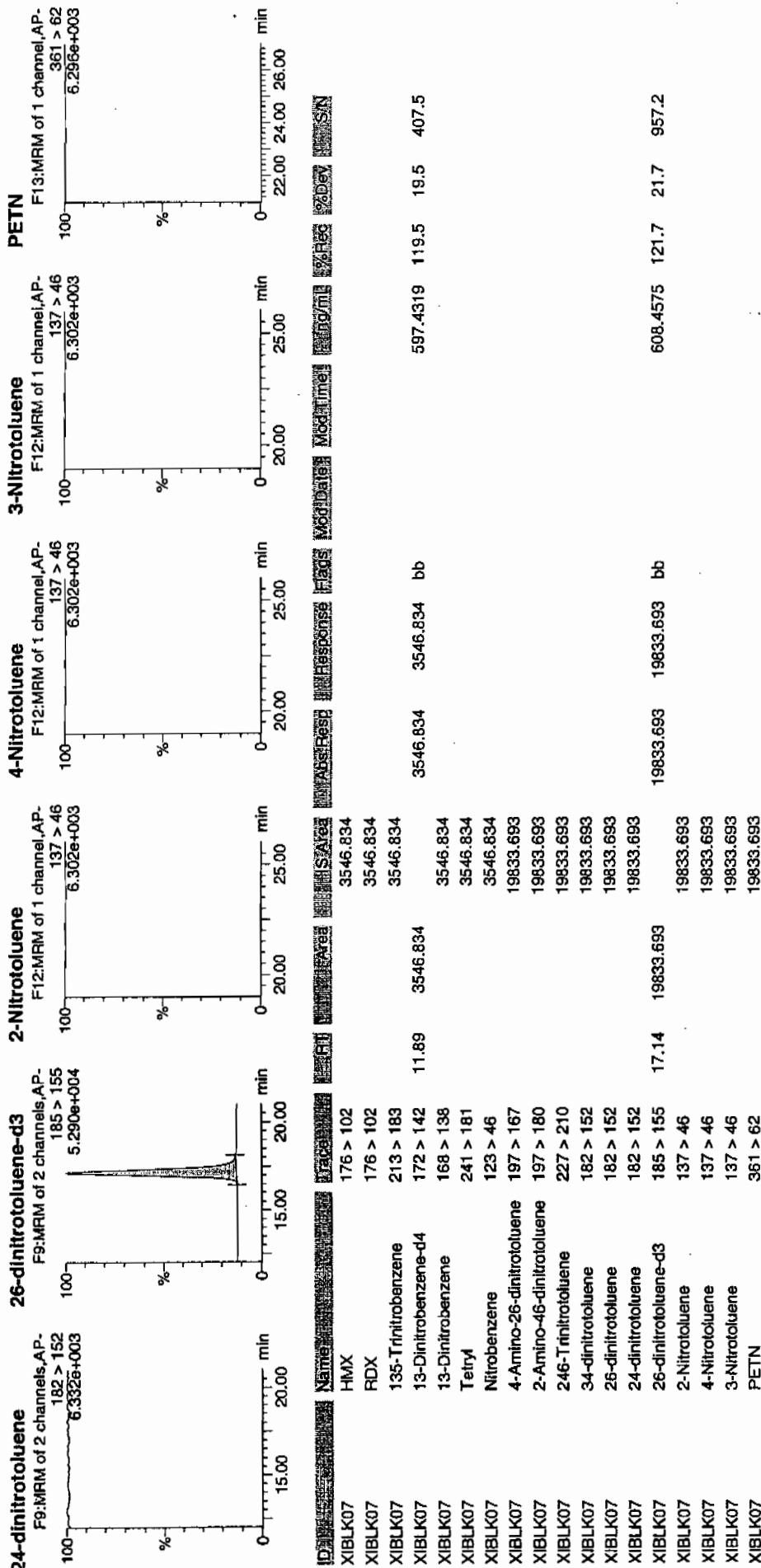


Quantify Sample Report

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

Printed: Wed Jan 27 09:26:20 2010, Page 50 of 97

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 26-JAN-10 19:48

GEL Data File: EXP0125067a

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	538.014
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	566.746
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

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0125067a

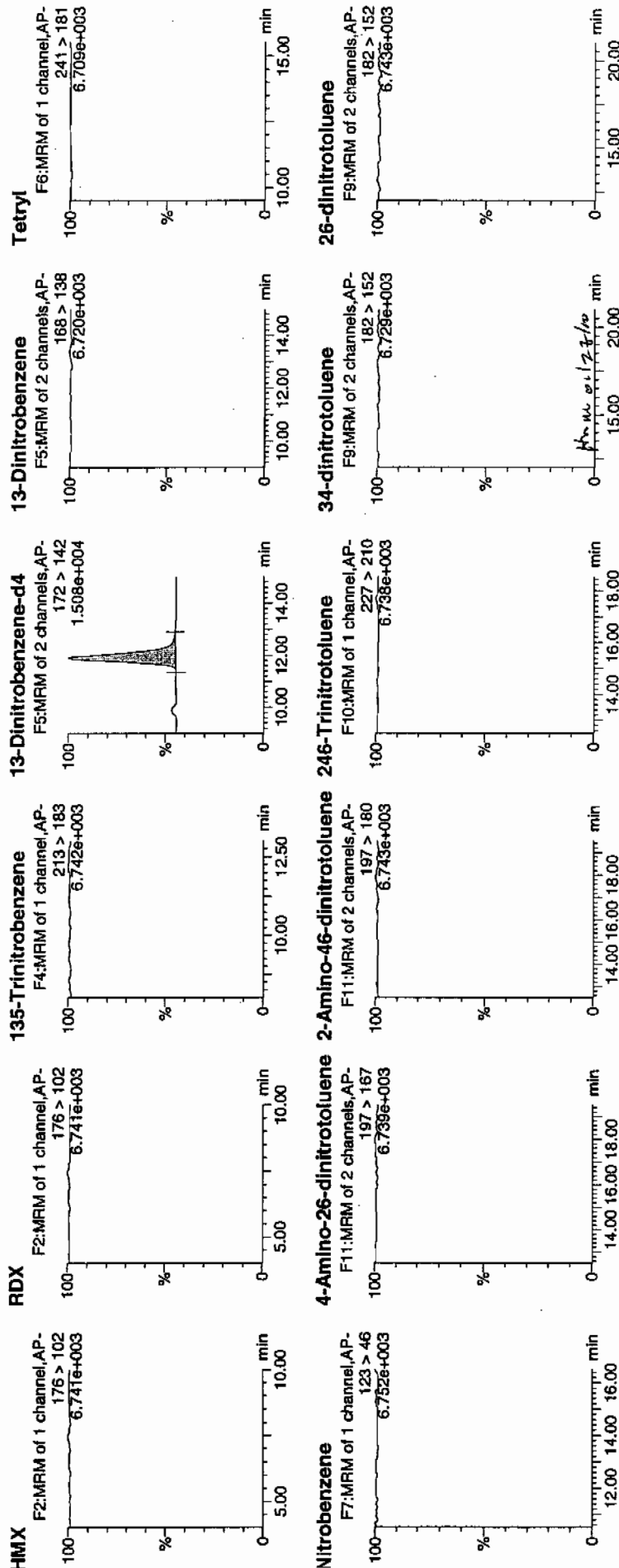
Date: 26-Jan-2010

Time: 19:48:13

ID: XIBLK08

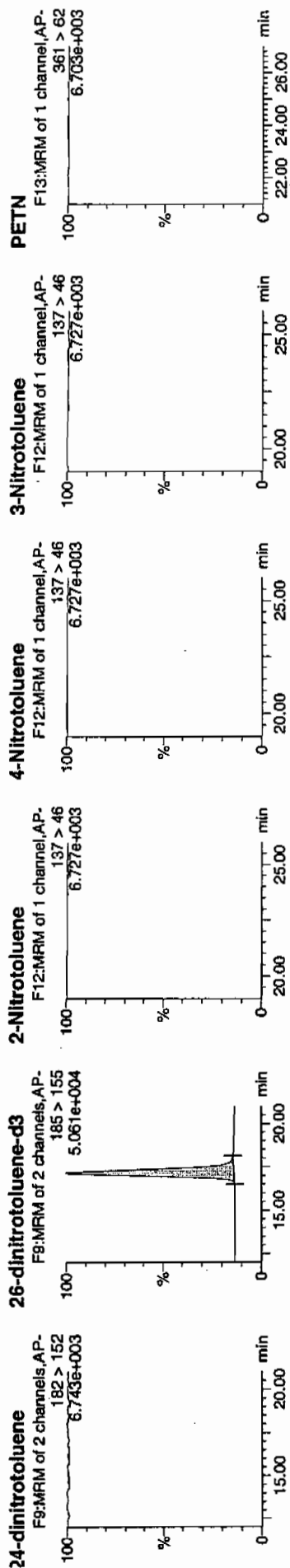
Vial: 1:1,A

1/27/10
1/27/10



Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

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4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 26-JAN-10 23:14

GEL Data File: EXP0125074a

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	524.417
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	524.016
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0125074a

Date: 26-Jan-2010

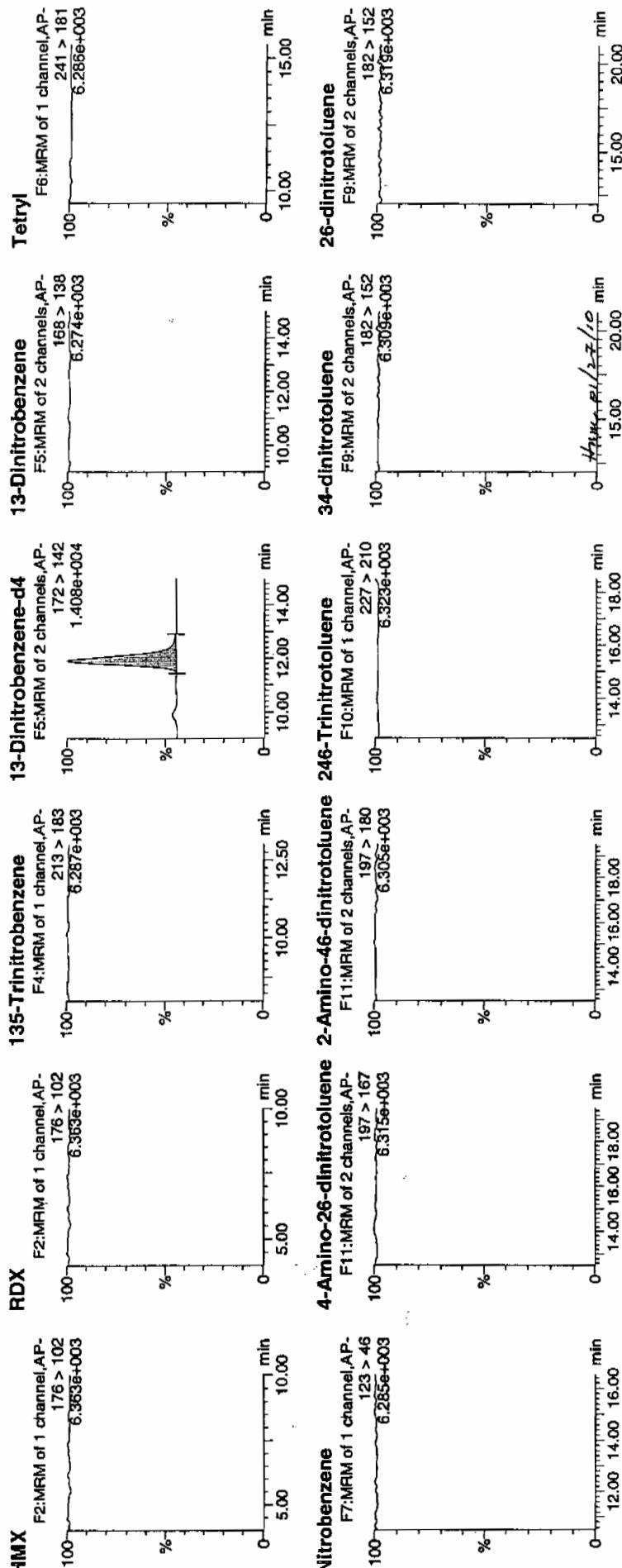
Time: 23:14:40

ID: XIBLK09

Vial: 1:1,A

MR
1/27/10

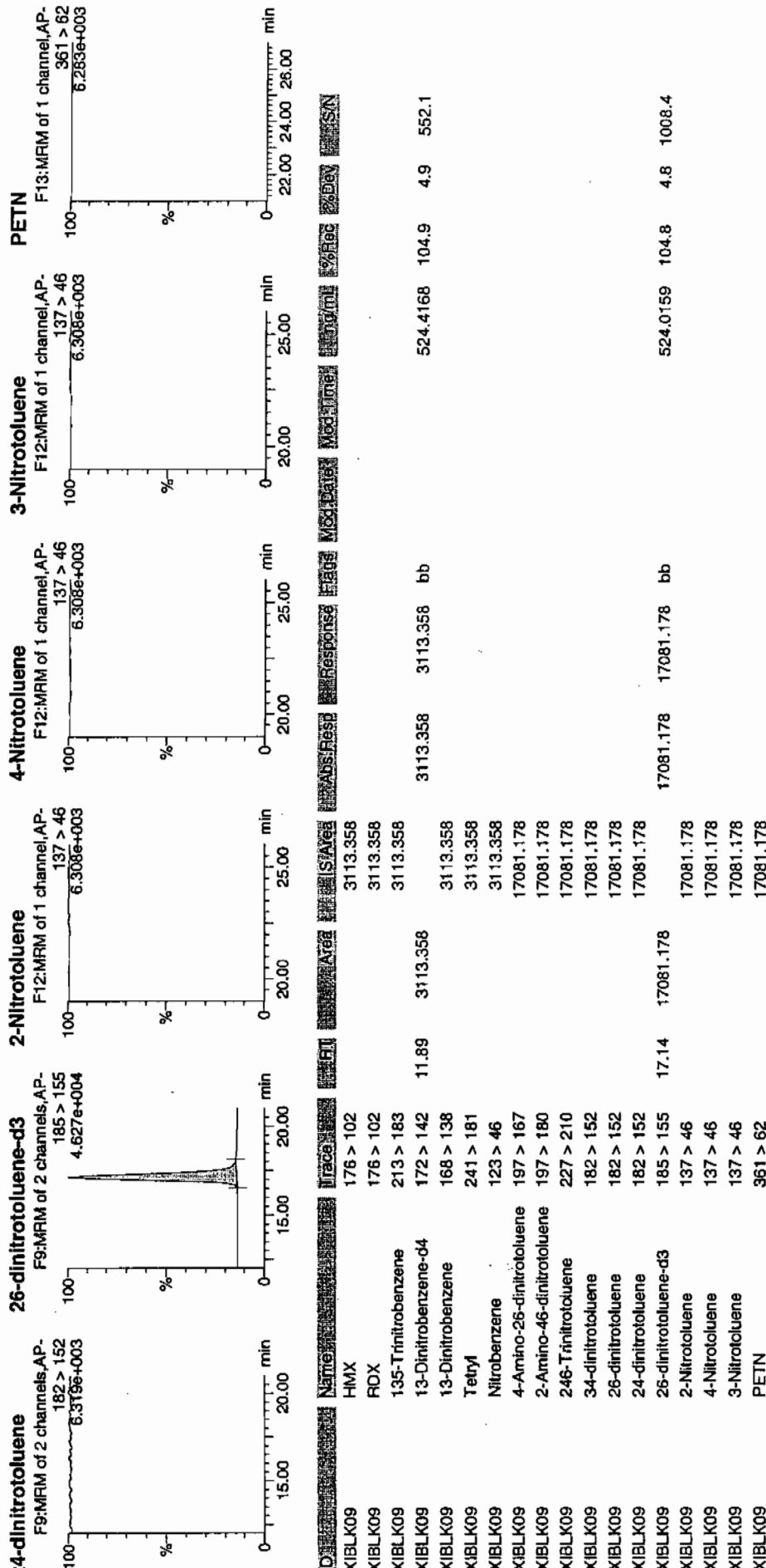
Page 106 of 556



Printed: Wed Jan 27 09:26:20 2010, Page 76 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PROV012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 22-JAN-10 12:47

GEL Data File: EXS01220010.wiff

Instrument ID: LCMSMS

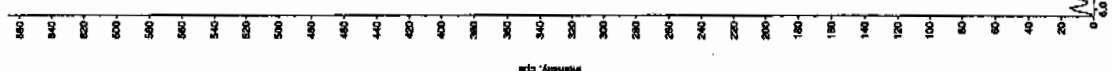
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	1.34
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

See 1/25/10

Sample Name: "XBLU02" Sample ID: "TILER" File: "EX50122010.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

Plate Index: 1
 Plate Type: Unknown
 Concentration: N/A ng/mL
 Date: 1/22/2010
 Time: 12:47:04 PM
 Method: No

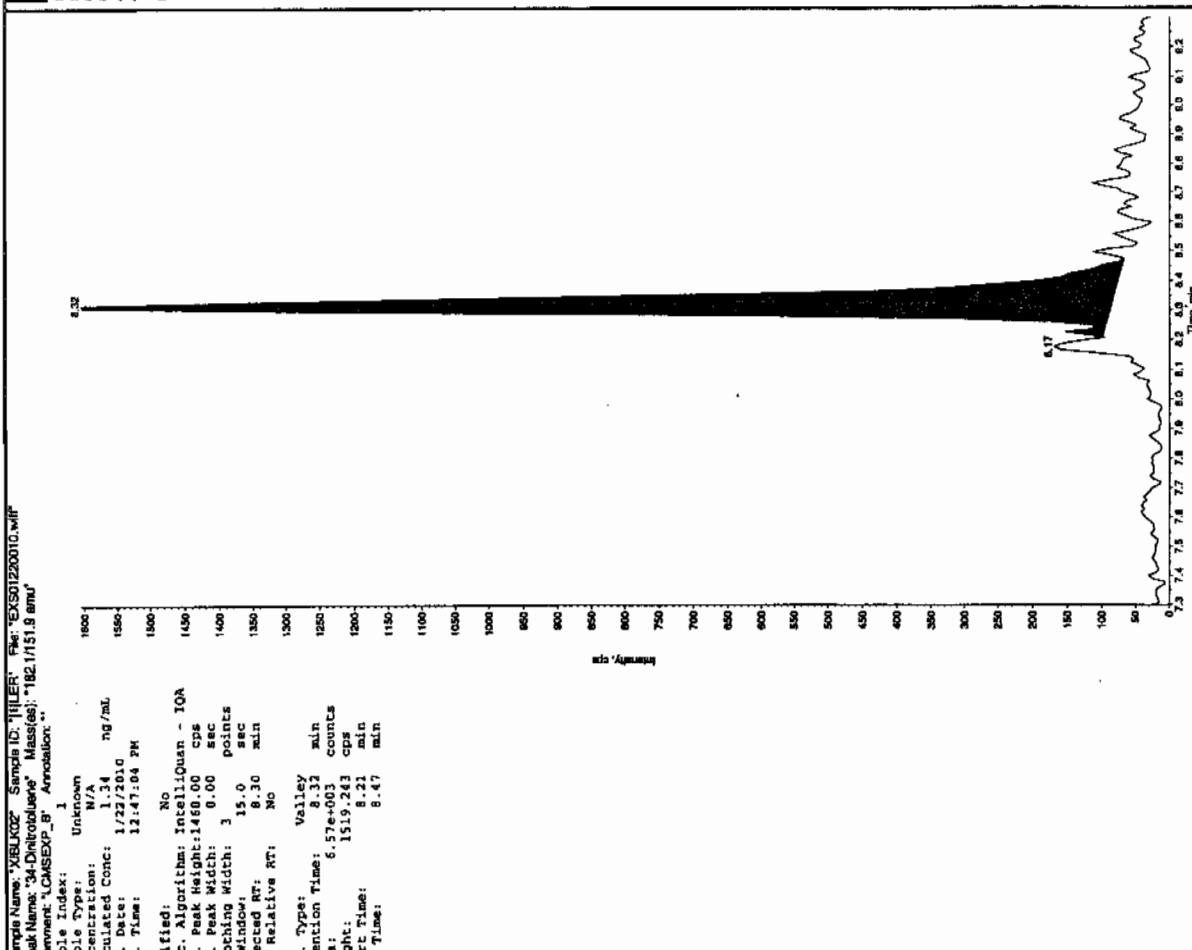
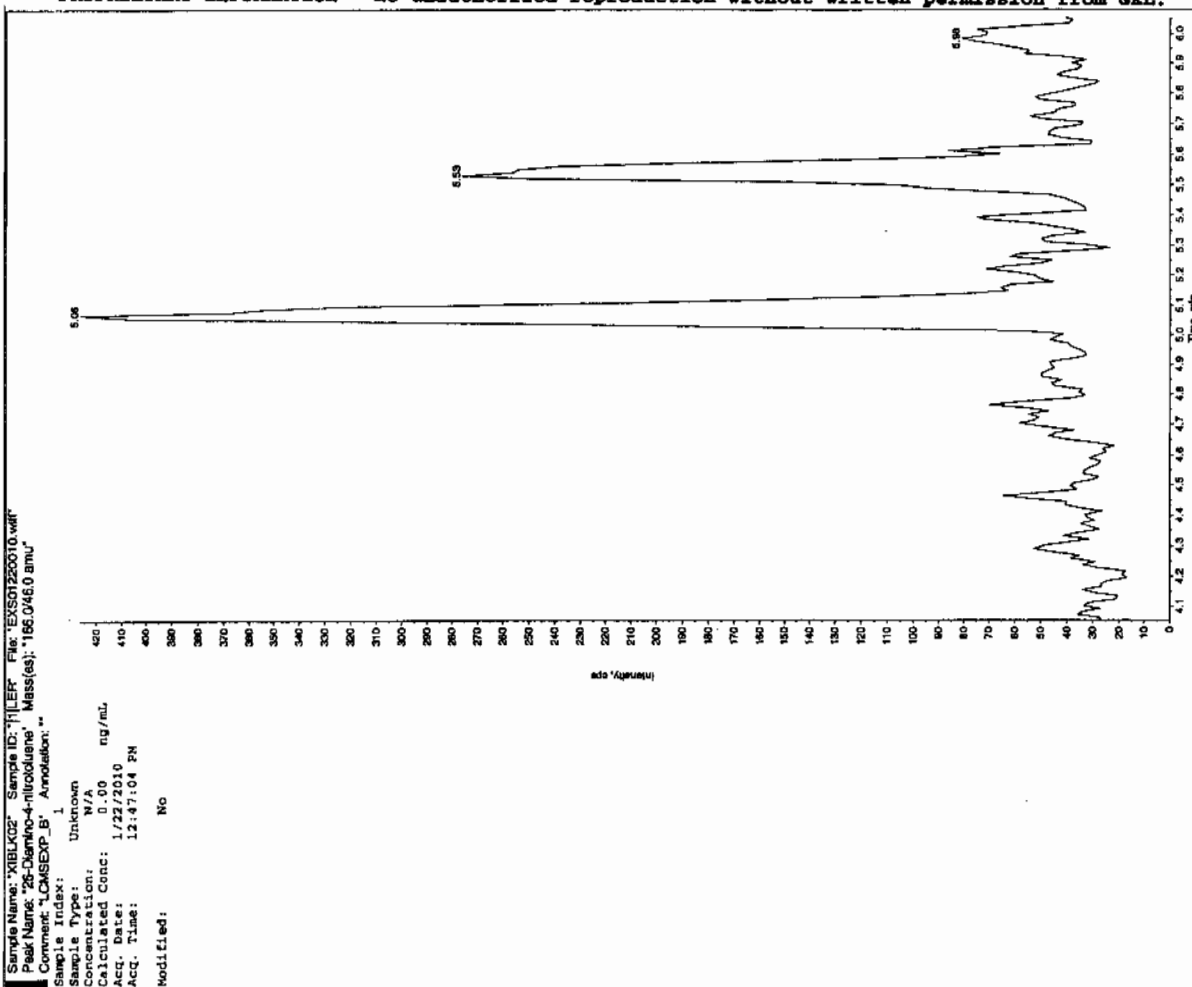


Sample Name: "XBLU02" Sample ID: "TILER" File: "EX50122010.wif"
 Peak Name: "35-Dinitrophenol" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_B" Annotation: "

Plate Index: 1
 Plate Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Date: 1/22/2010
 Time: 12:47:04 PM
 Method: 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: 8.15 min
 Area: 1.28e+004 counts
 Height: 2544.287 cps
 Start Time: 8.06 min
 End Time: 8.43 min



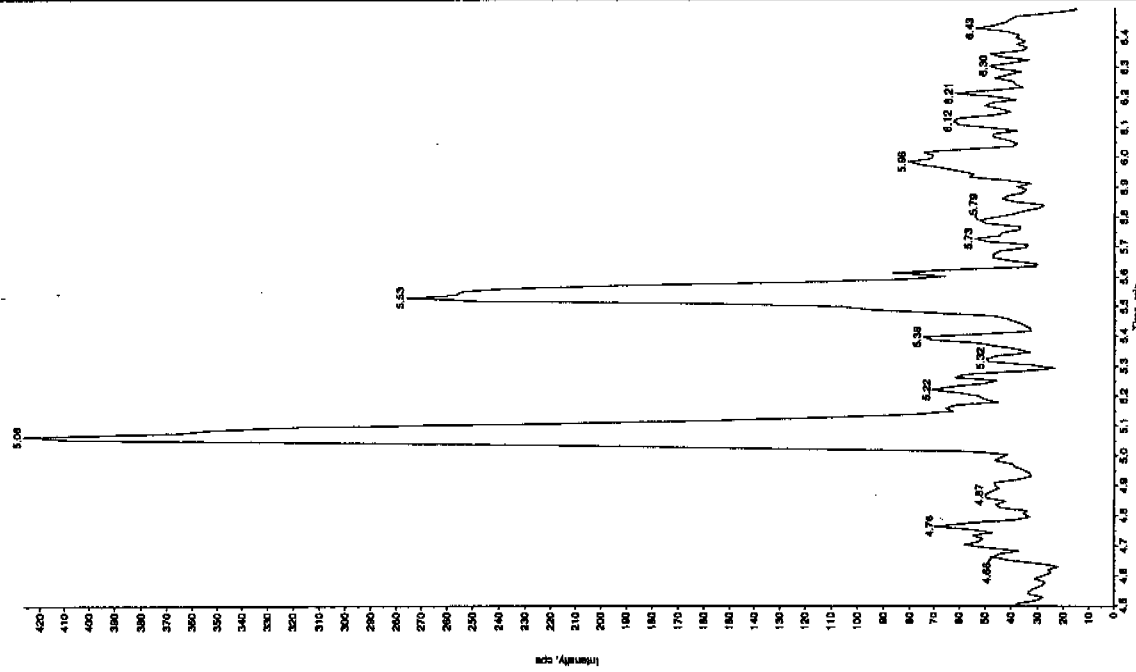
See 01/25/10



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

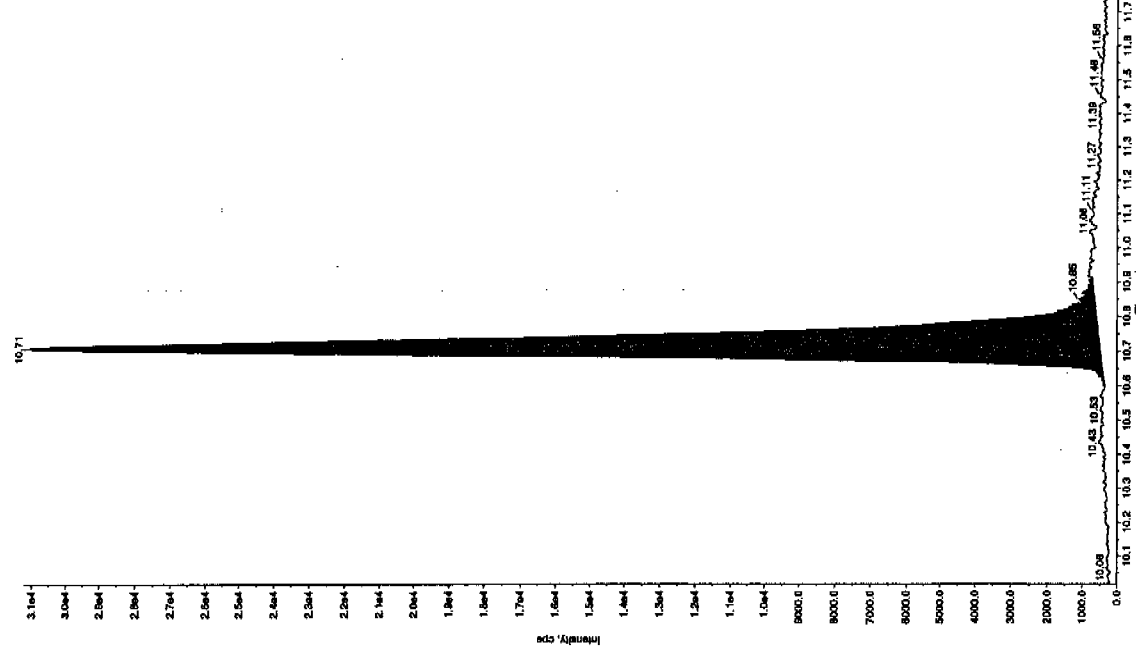
Sample Name: "XEL002" Sample ID: "JLEP" File: "EX501220010.wif"
 Peak Name: "24 Ompno-6-alkaloids" Mass(es): "66.046.0 amu"
 Comment: "LCMS-EXP_B" Acquisition: " "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Q. Date: 1/22/2010
 Q. Time: 12:47:04 PM
 Modified: No



Sample Name: "XEL002" Sample ID: "JLEP" File: "EX501220010.wif"
 Peak Name: "24 Ompno-6-alkaloids" Mass(es): "366.161.0 amu"
 Comment: "LCMS-EXP_B" Acquisition: " "

Sample Index: 1
 Sample Type: Unknown
 Concentration: < 0
 Q. Date: 1/22/2010
 Q. Time: 12:47:04 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.7 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 1.25e+005 counts
 Height: 30718.710 cps
 Start Time: 10.6 min
 End Time: 10.9 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 22-JAN-10 13:18

GEL Data File: EXS01220012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

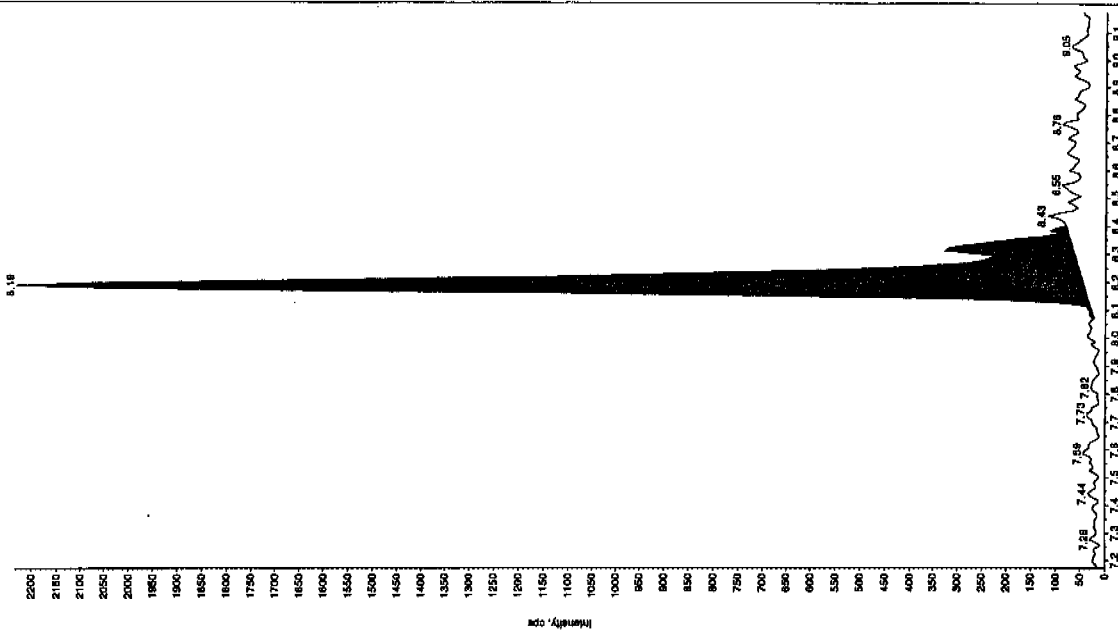
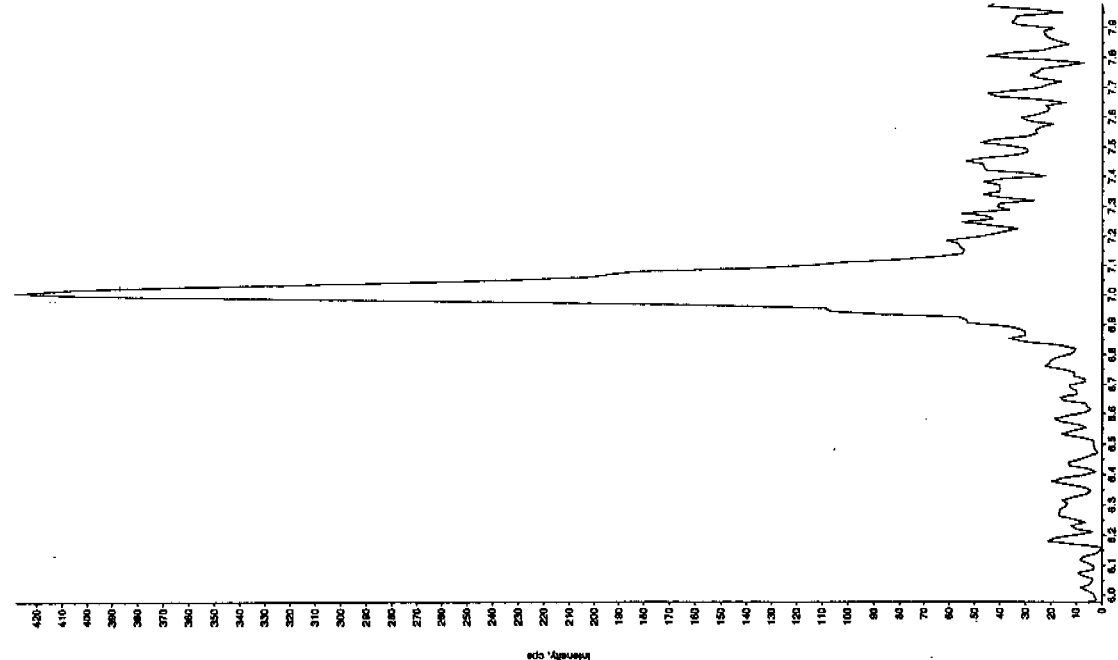
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Star 112510

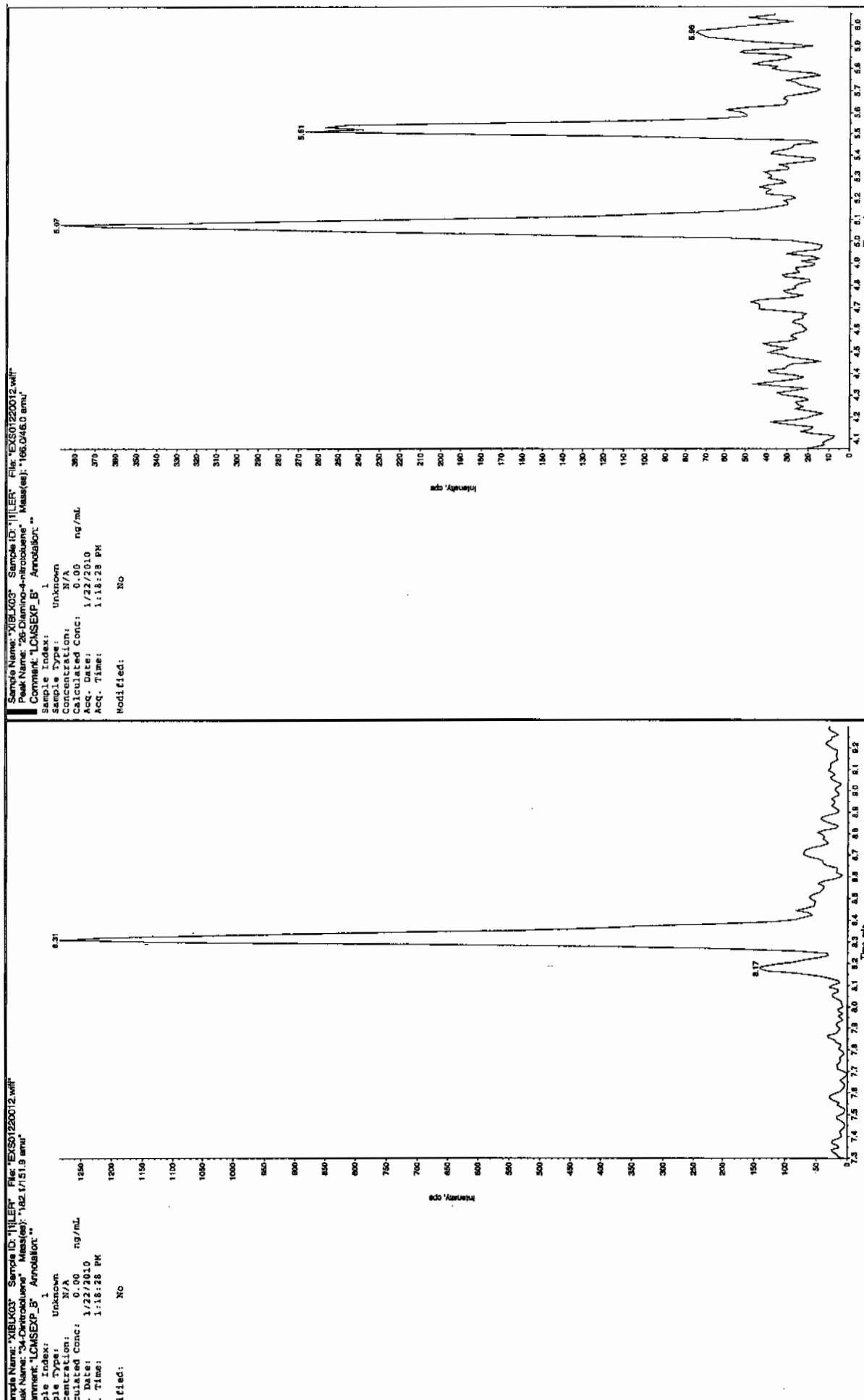
Sample Name: "XIBUK03" Sample ID: "TILER" File: "EXS01220012.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 1/22/2010
 Time: 1:18:28 PM
 Modified: No

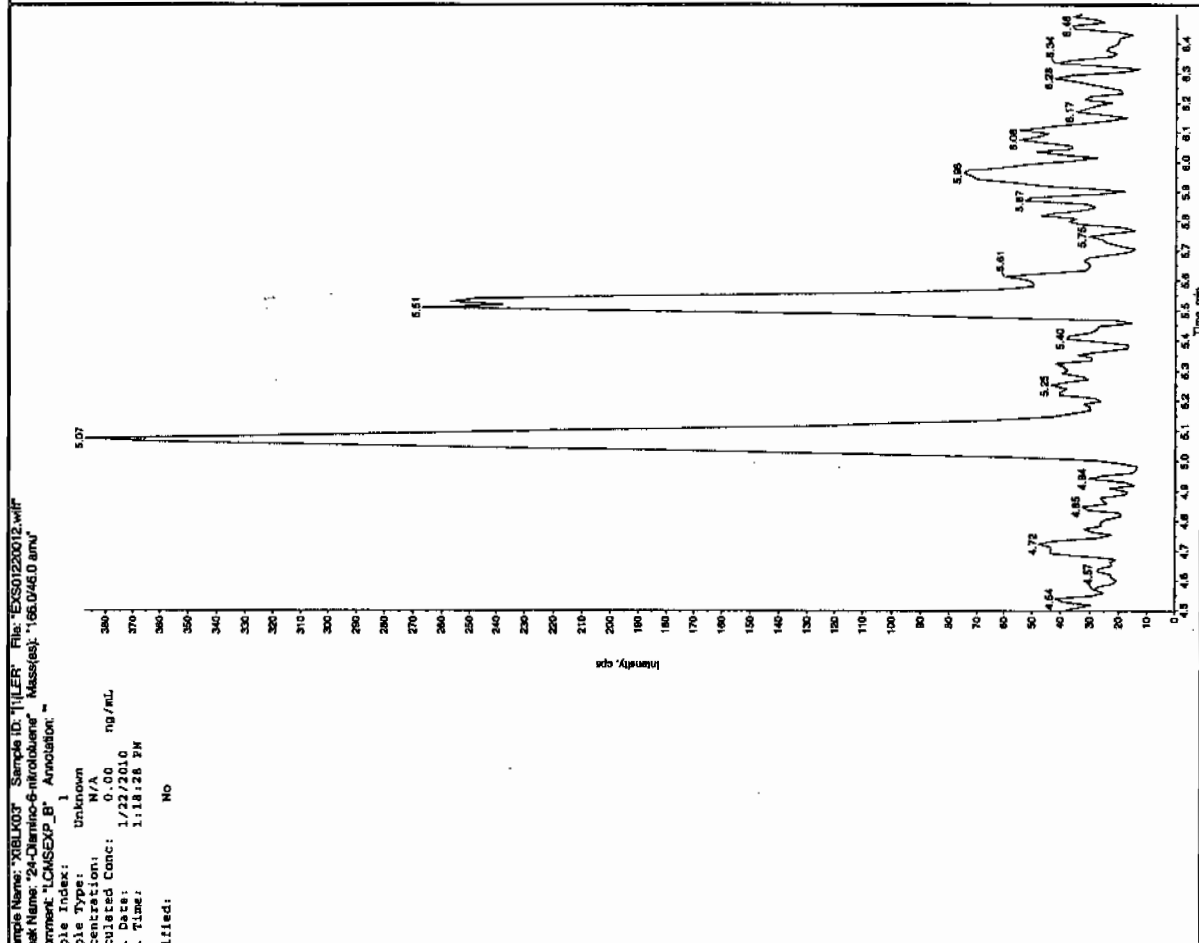
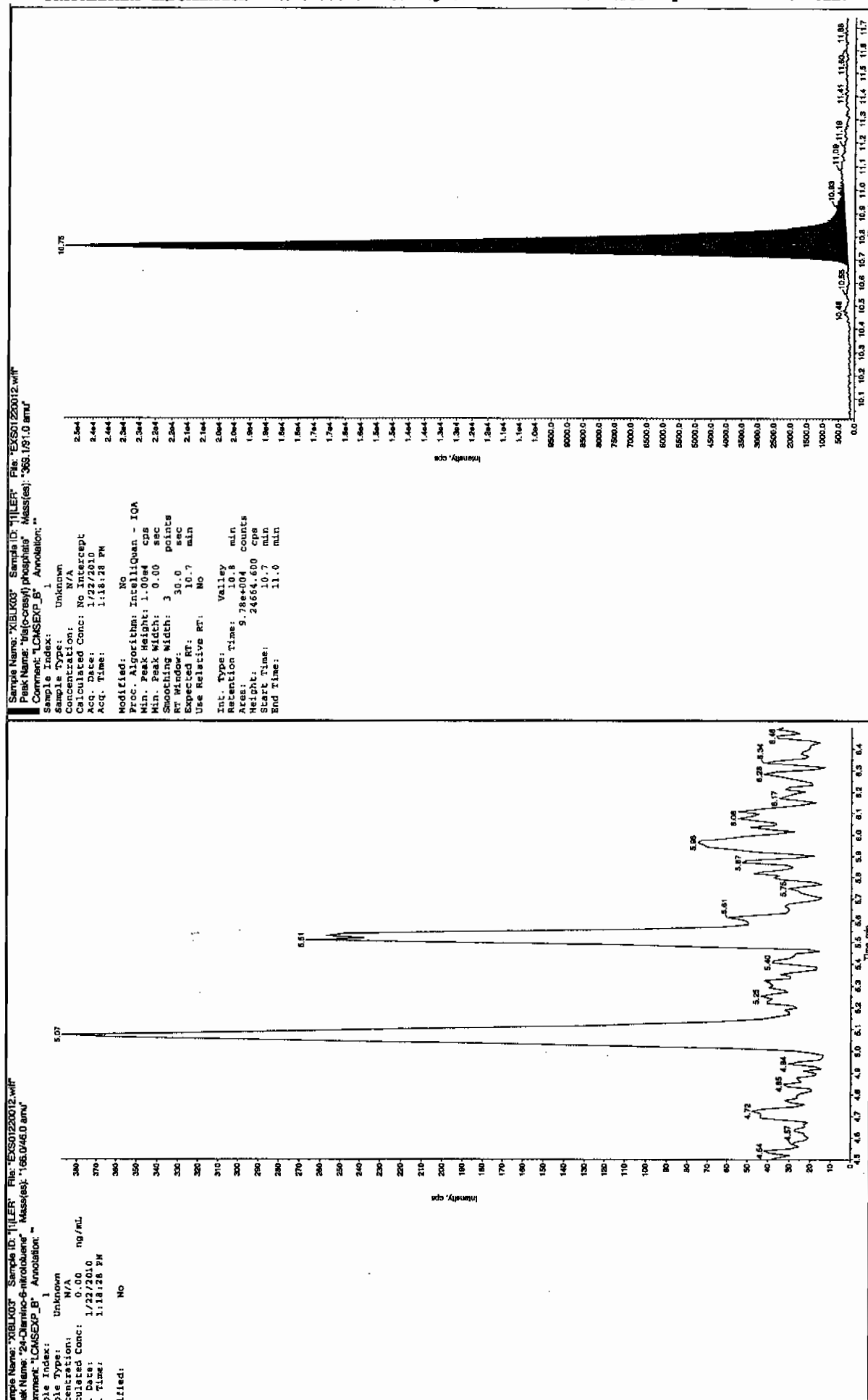
Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 1.01e+006 counts
 Height: 2189.063 cps
 Start Time: 8.07 min
 End Time: 8.40 min



Star 112510



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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 22-JAN-10 16:42

GEL Data File: EXS01220025.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

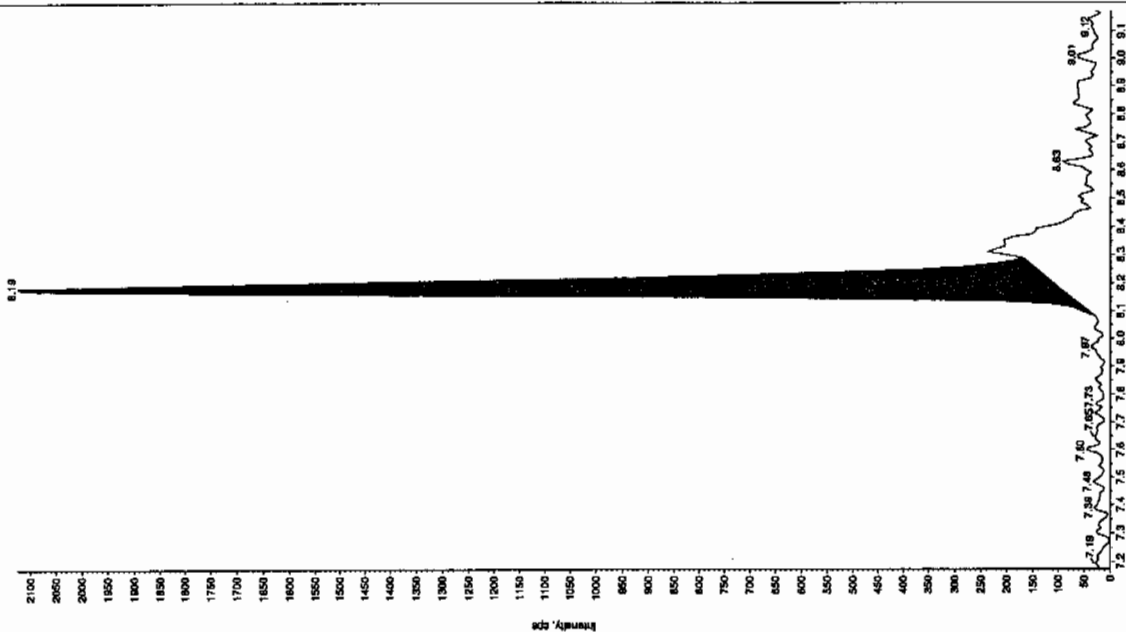
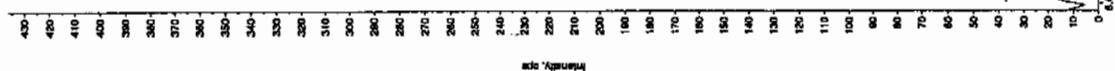
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 1125/10

Sample Name: "XIBLK04" Sample ID: "TILER" File: "EX501220025.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:42:30 PM
 Modified: No

Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 peaks
 Smoothing Width: 15.0 sec
 RT Window: 8.17 min
 Expected RT: No
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 8.14e+003 counts
 Height: 2027.500 cps
 Start Time: 8.08 min
 End Time: 8.29 min

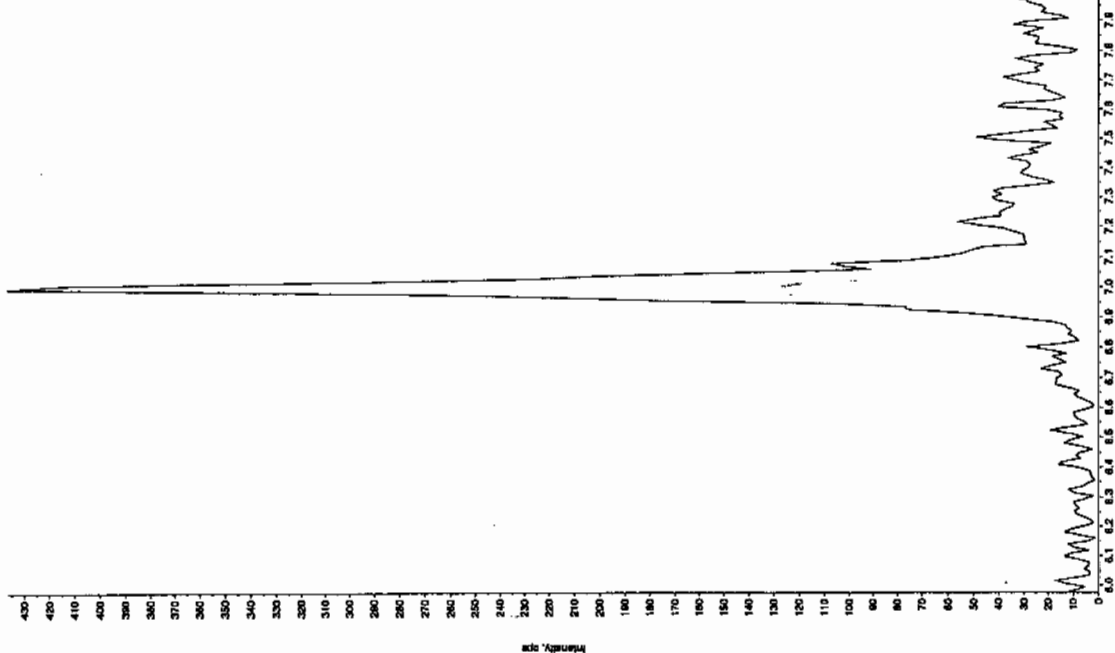


Am 0125/10

Sample Name: "XIBLK04" Sample ID: "TILER" File: "EX501220025.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

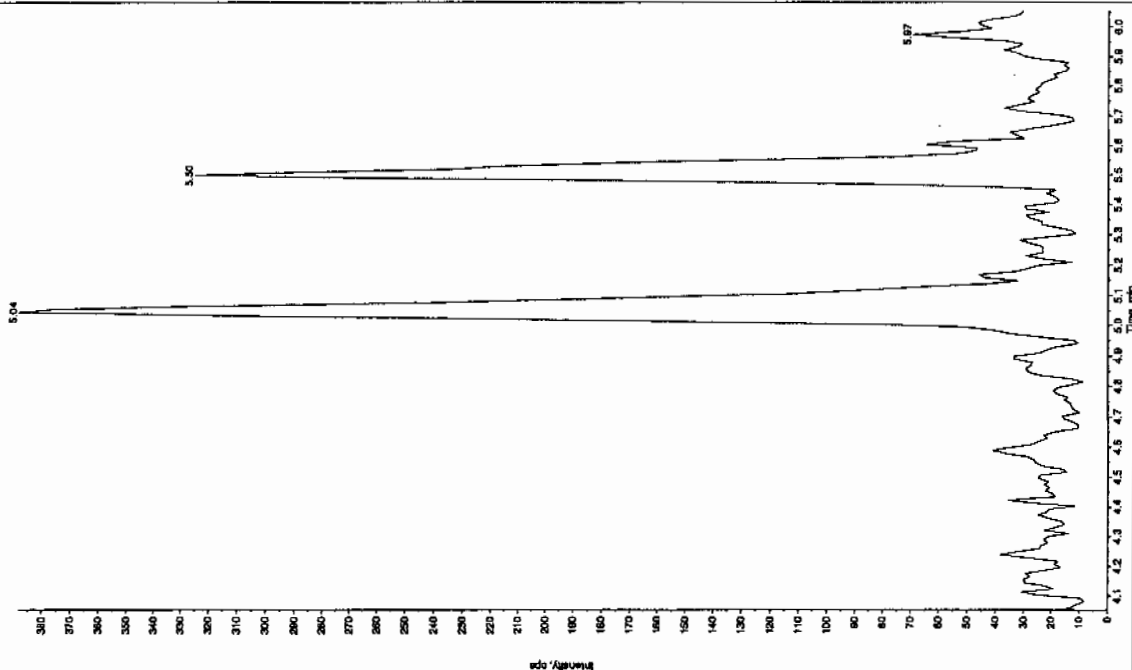
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:42:30 PM
 Modified: No

Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 peaks
 Smoothing Width: 15.0 sec
 RT Window: 8.17 min
 Expected RT: No
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 8.14e+003 counts
 Height: 2027.500 cps
 Start Time: 8.08 min
 End Time: 8.29 min



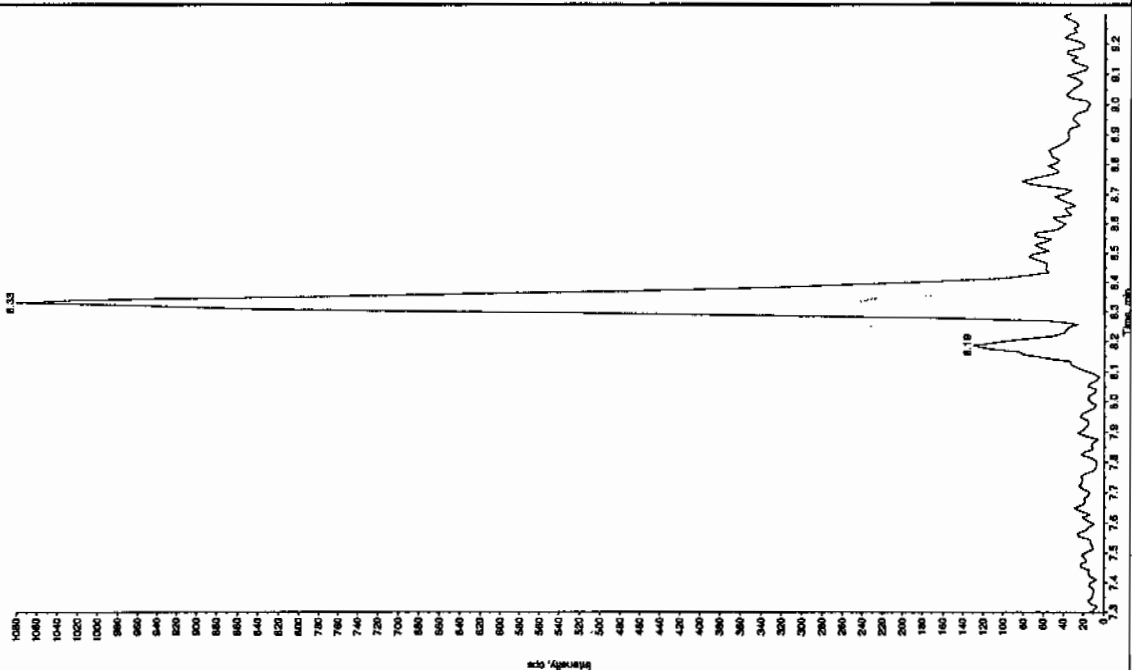
Sample Name: "XBLXGA" Sample ID: "11LEF" File: "EX301220025.wif"
 Peak Name: "28-Chloro-4-nitrobenzene" Mass(es): "156.046.0 amu"
 Comment: "CONDENSED" Annotation: ""

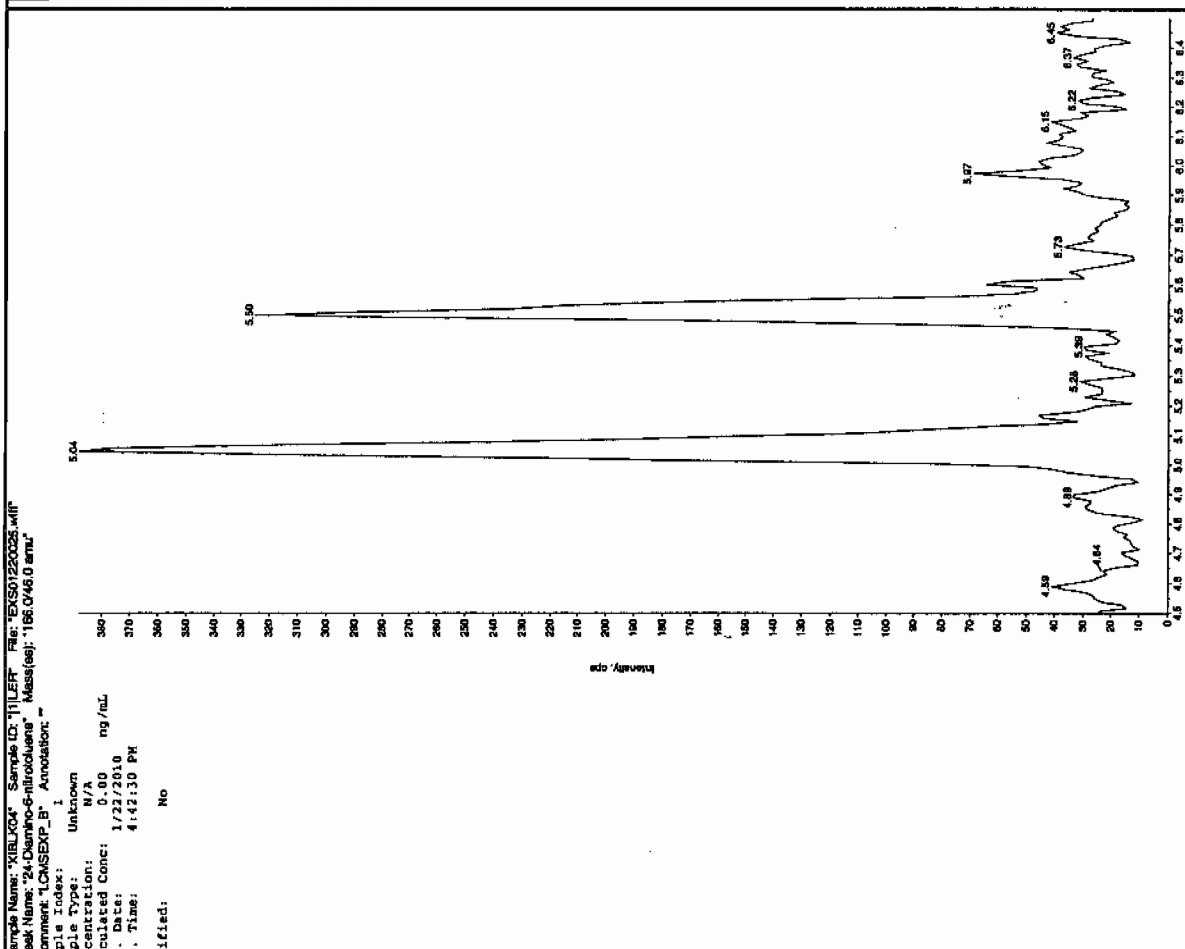
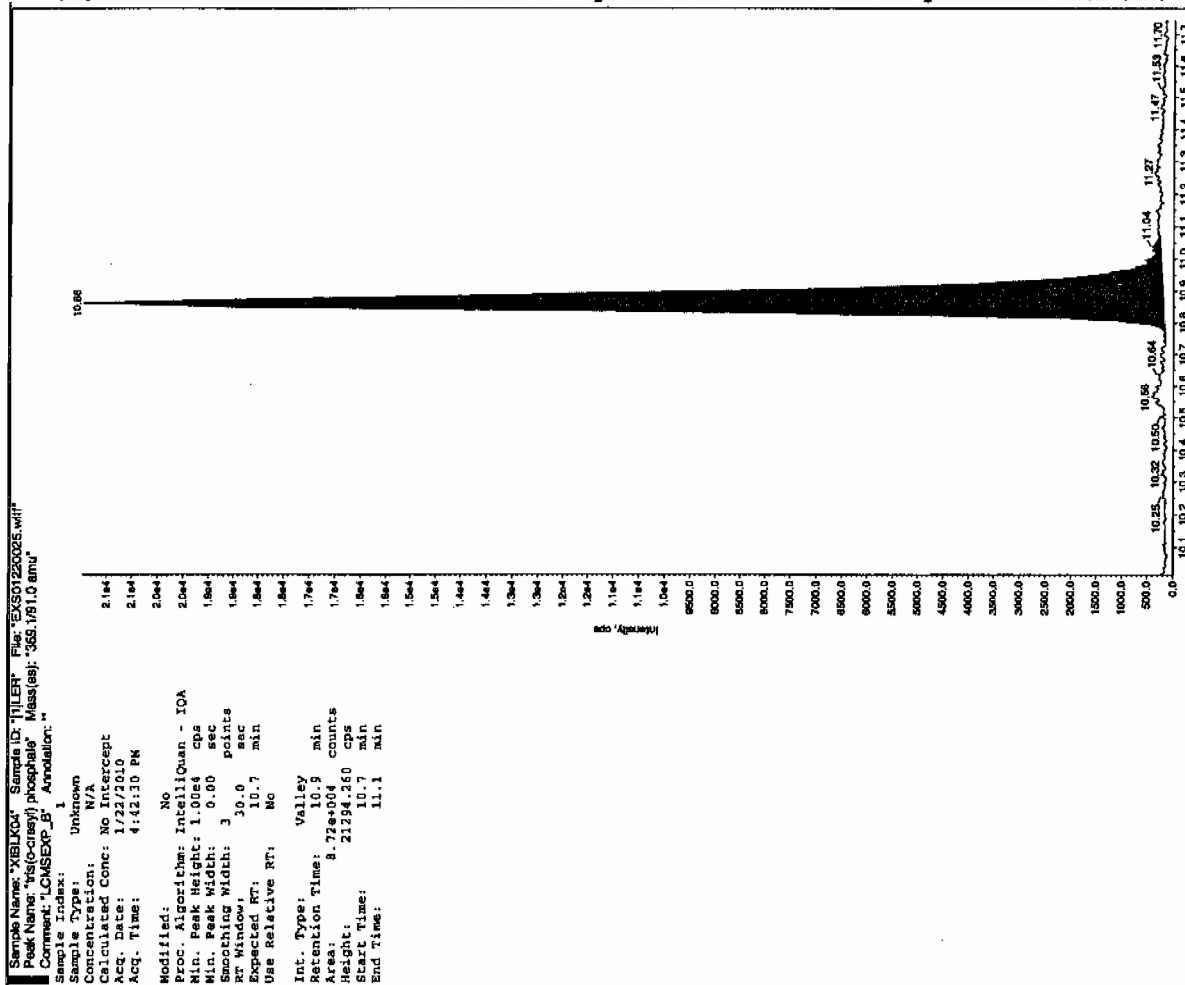
Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:42:30 PM
 Modified: No



Sample Name: "XBLXGA" Sample ID: "11LEF" File: "EX301220025.wif"
 Peak Name: "28-Chloro-4-nitrobenzene" Mass(es): "182.1151.9 amu"
 Comment: "CONDENSED" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:42:30 PM
 Modified: No





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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 22-JAN-10 20:06

GEL Data File: EXS01220038.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

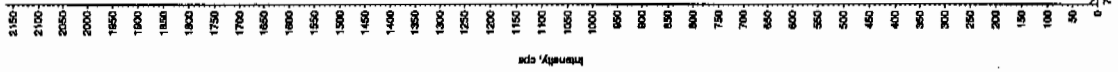
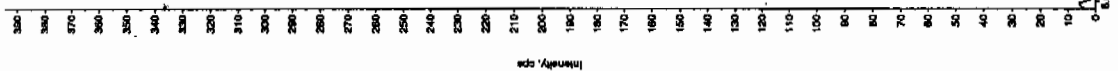
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 1/25/10

Sample Name: "XBLX05" Sample ID: "11LER" File: "EX01220038.wif"
 Peak Name: "TATB" Mass(es): "257.204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

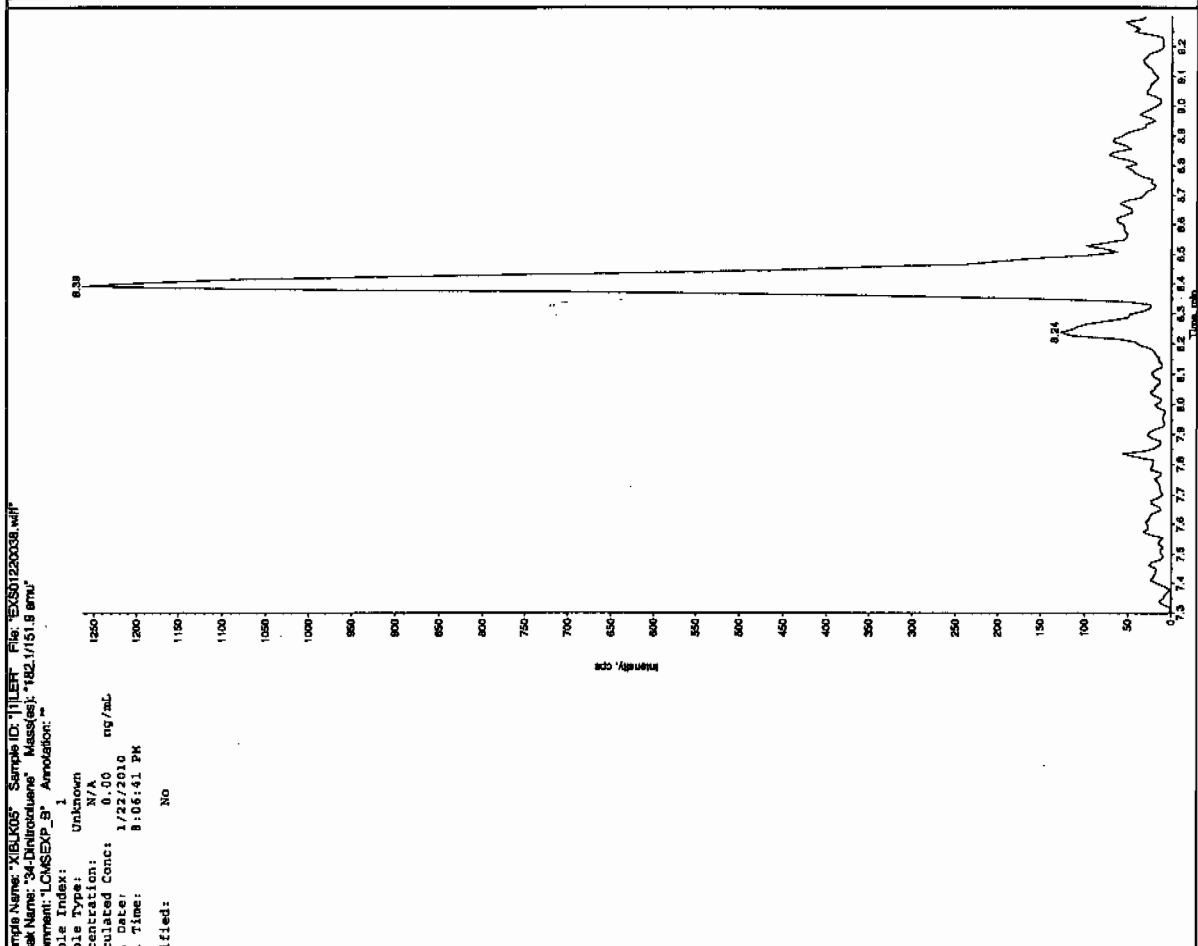
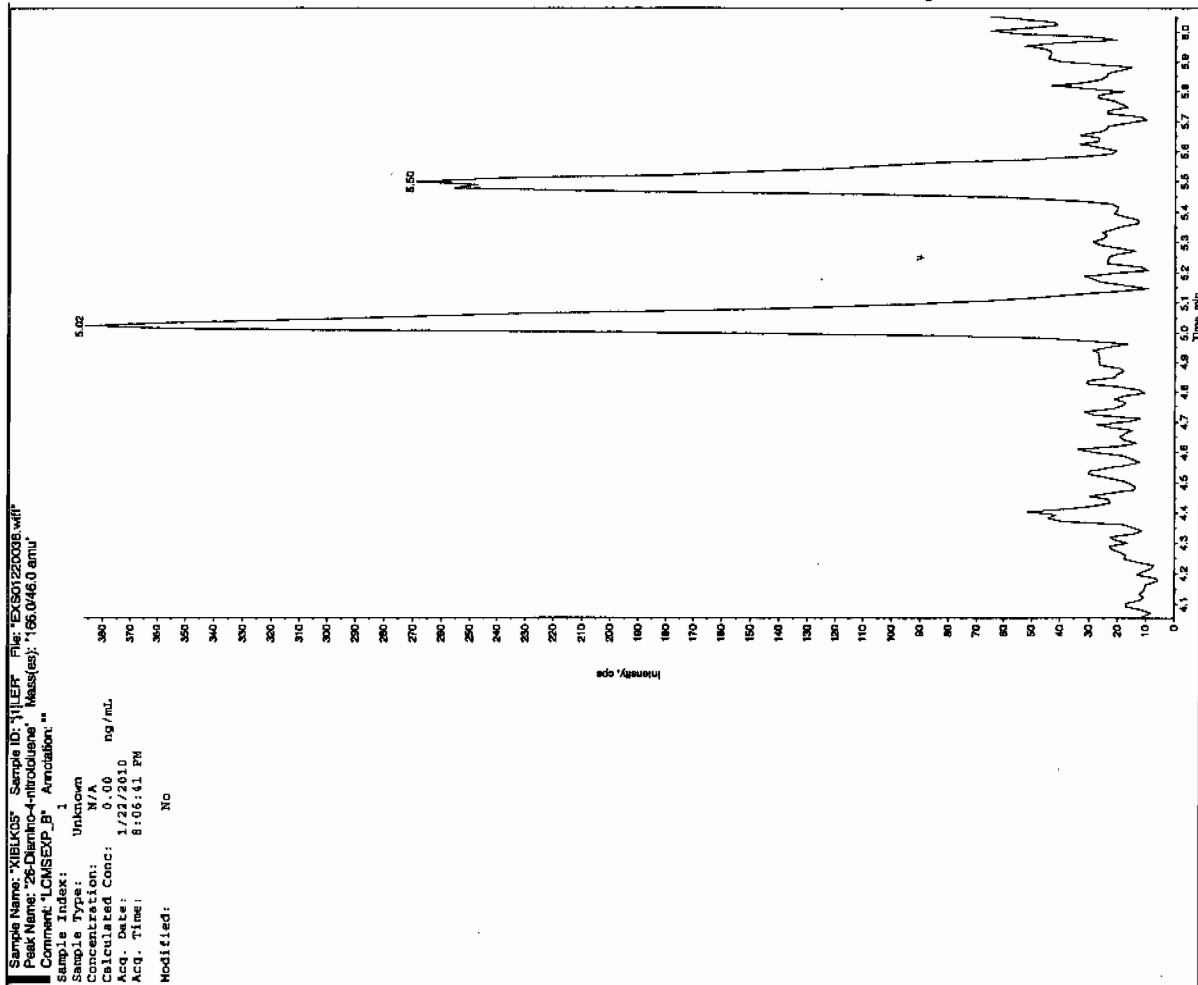
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 8:06:41 PM
 Acq. Time: No

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: 8.25 min
 Area: 9.98e+003 counts
 Height: 2126.171 cps
 Start Time: 8.11 min
 End Time: 8.47 min

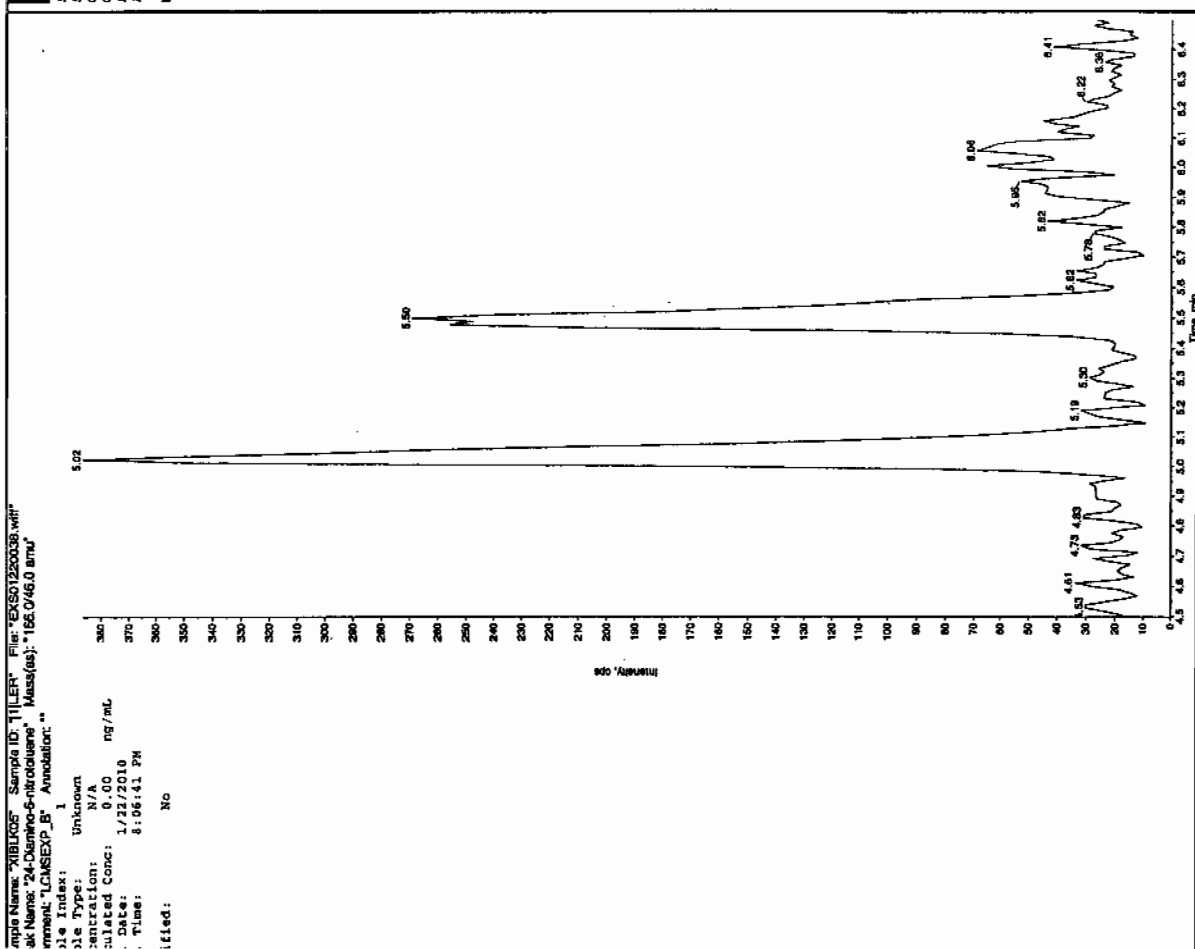
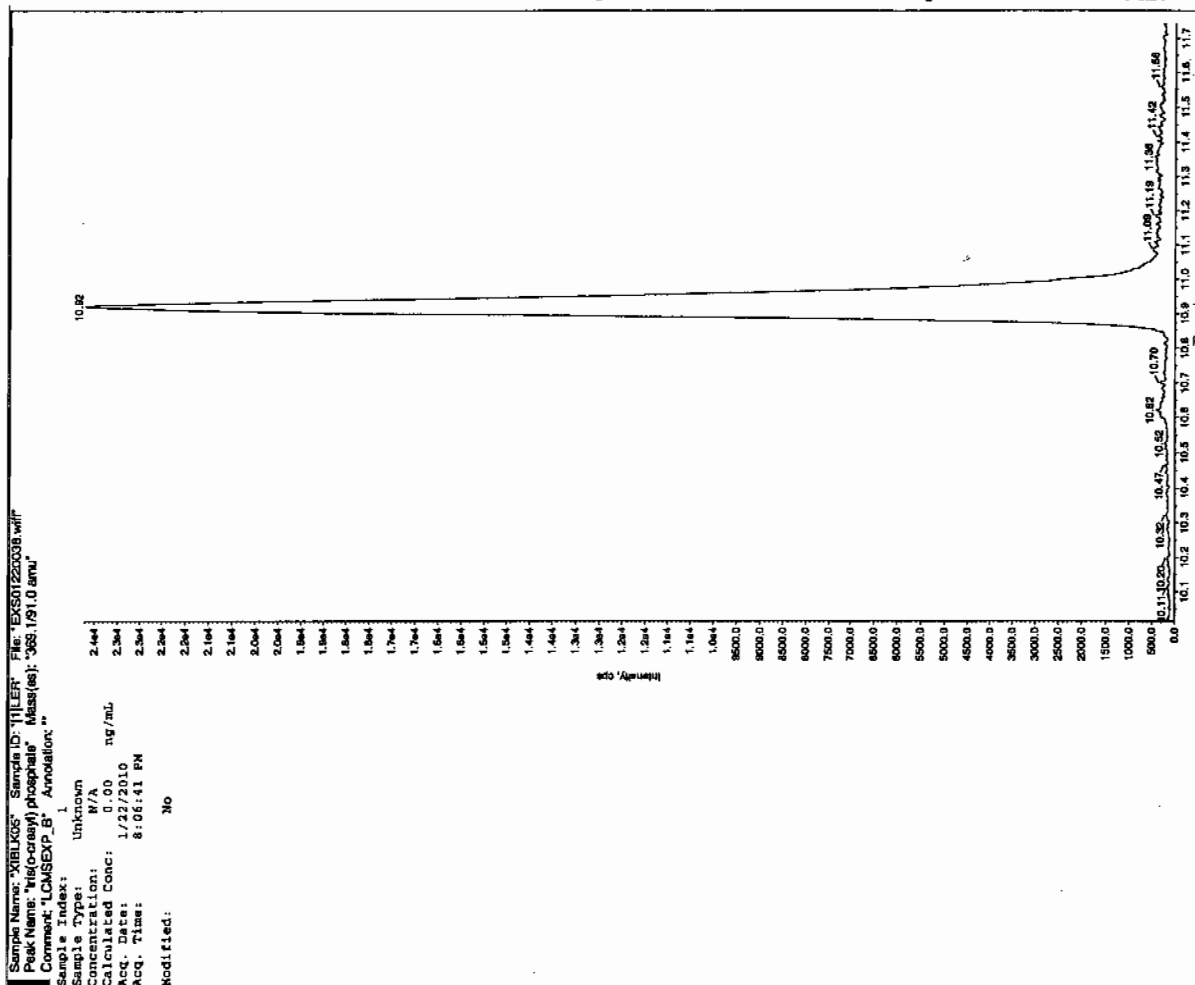


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Run 1/25/10



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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 22-JAN-10 21:40

GEL Data File: EXS01220044.wiff

Instrument ID: LCMSMS

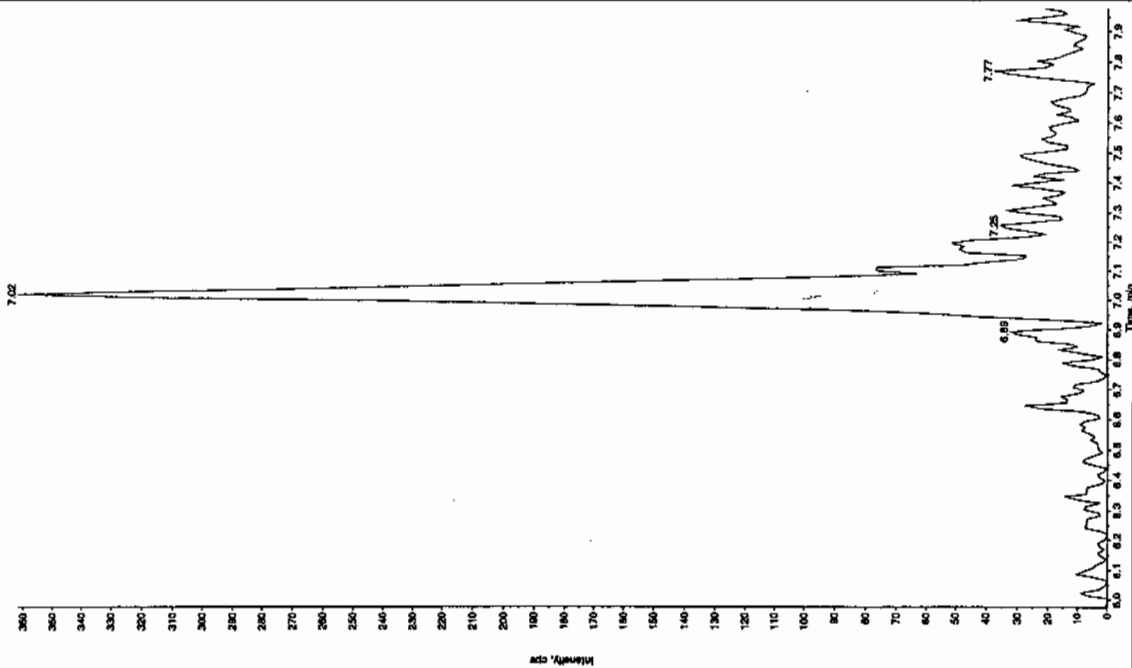
Column: Phenomenex Ultracarb 5u ODS(20)

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

Sen 1/25/10

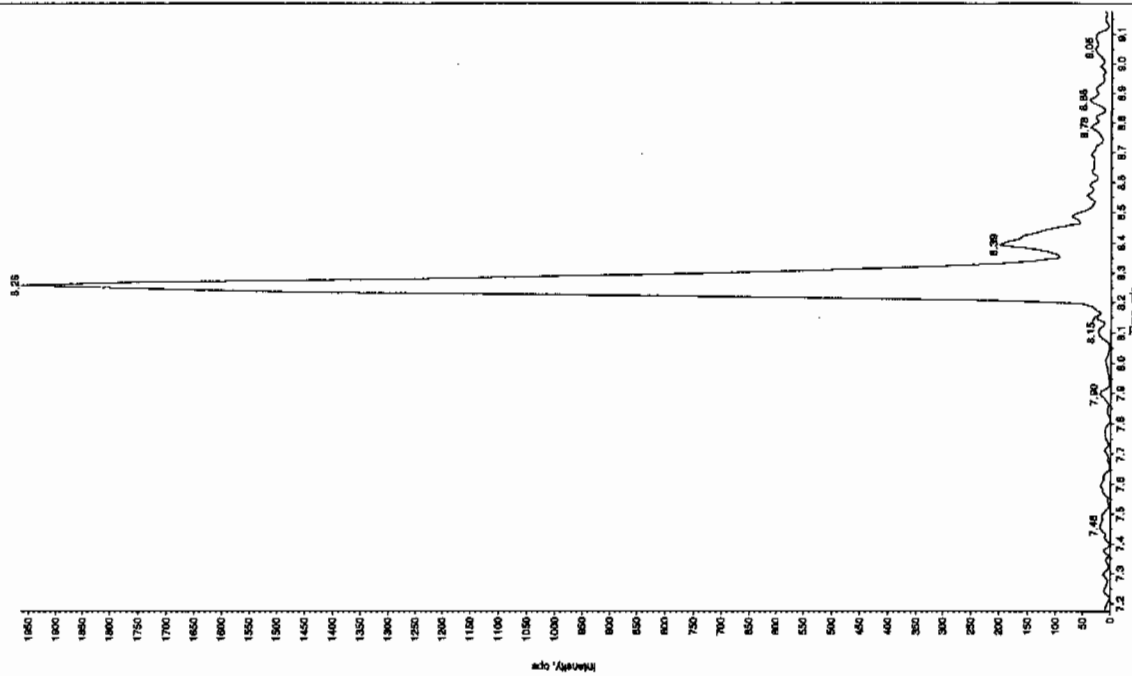
Sample Name: 'XBLK08' Sample ID: 'T1LER' File: 'EX501220044.wif'
 Peak Name: 'TAT3' Mass(es): '257.2204.9 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 9:40:57 PM
 Modified: No



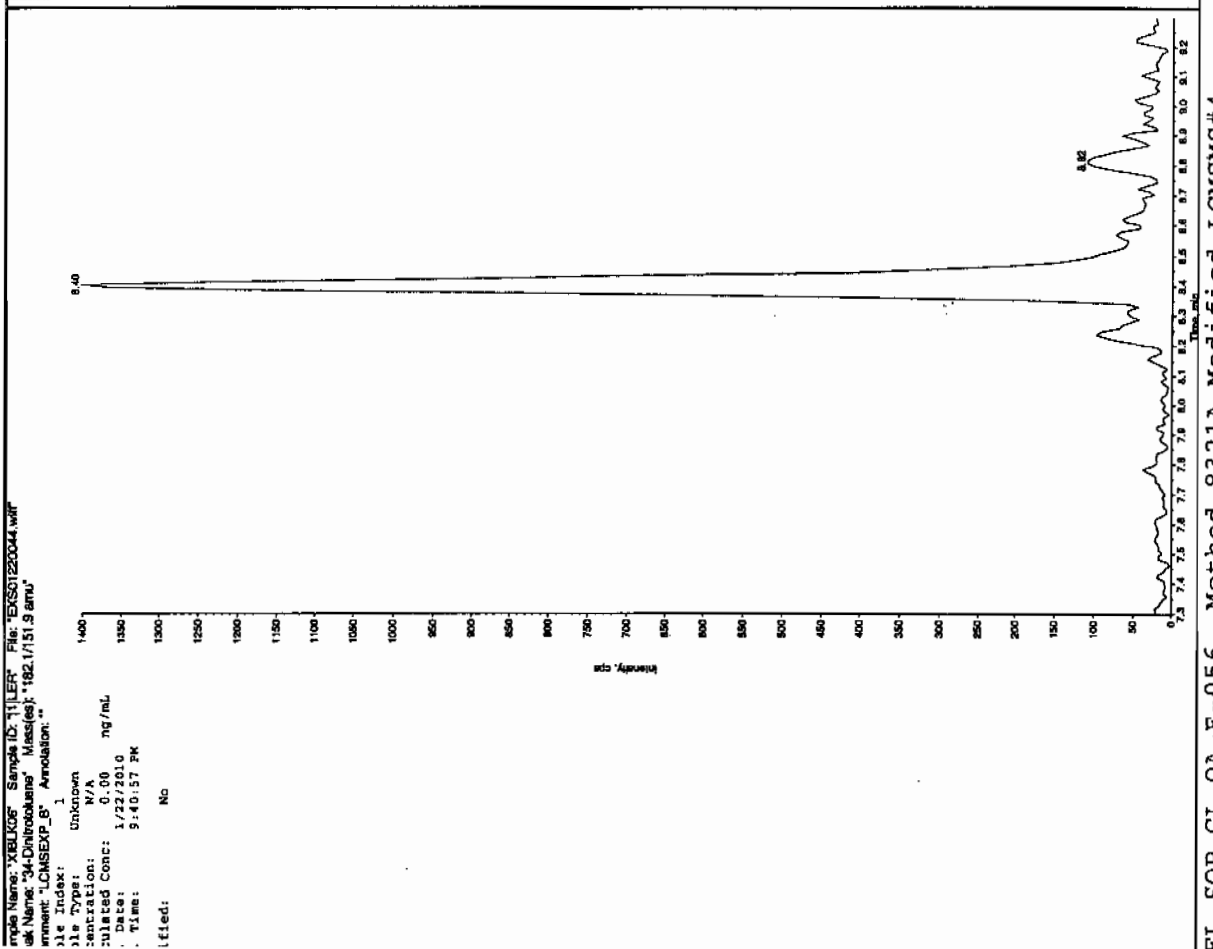
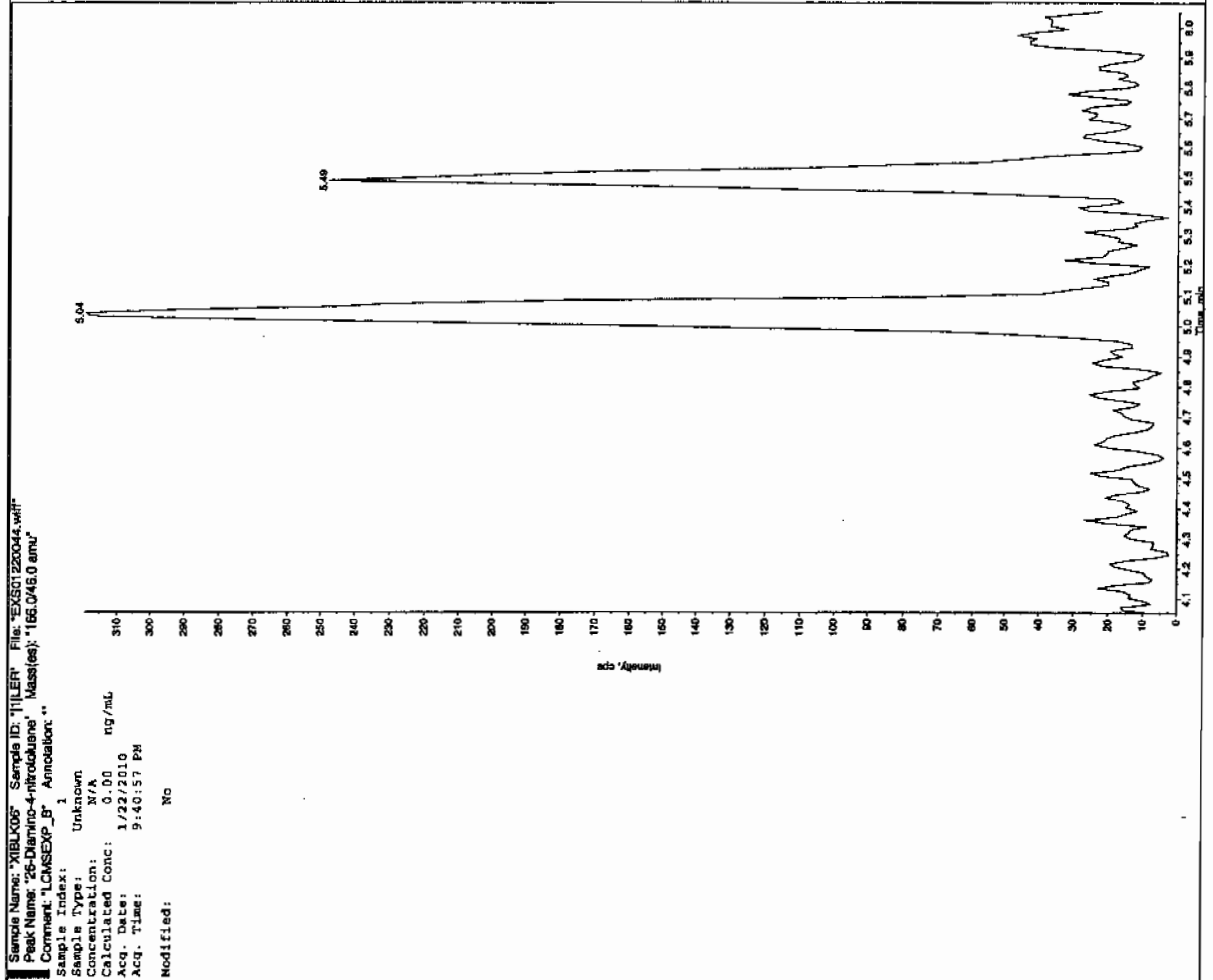
Sample Name: 'XBLK08' Sample ID: 'T1LER' File: 'EX501220044.wif'
 Peak Name: '35-Dinitroanthracene' Mass(es): '182.046.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 9:40:57 PM
 Modified: No

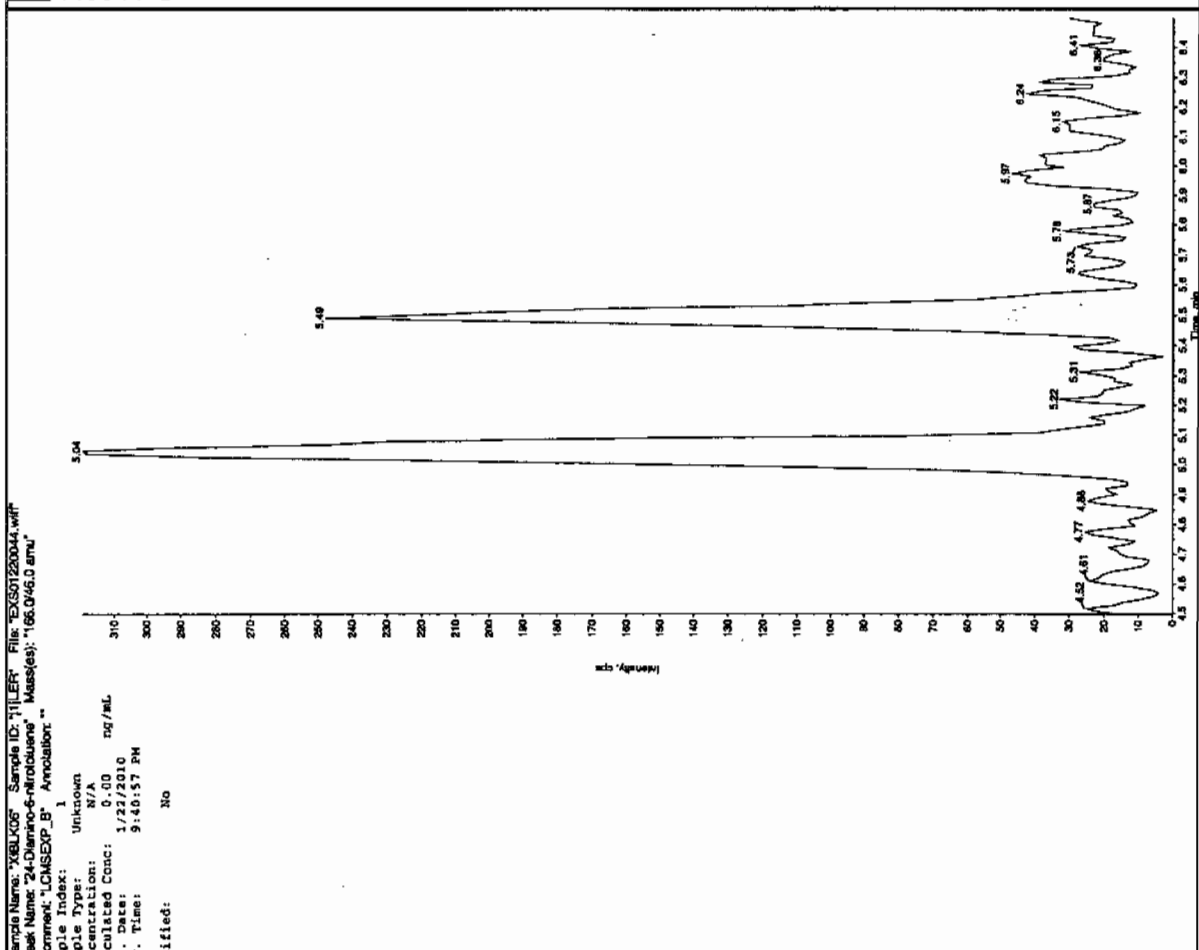
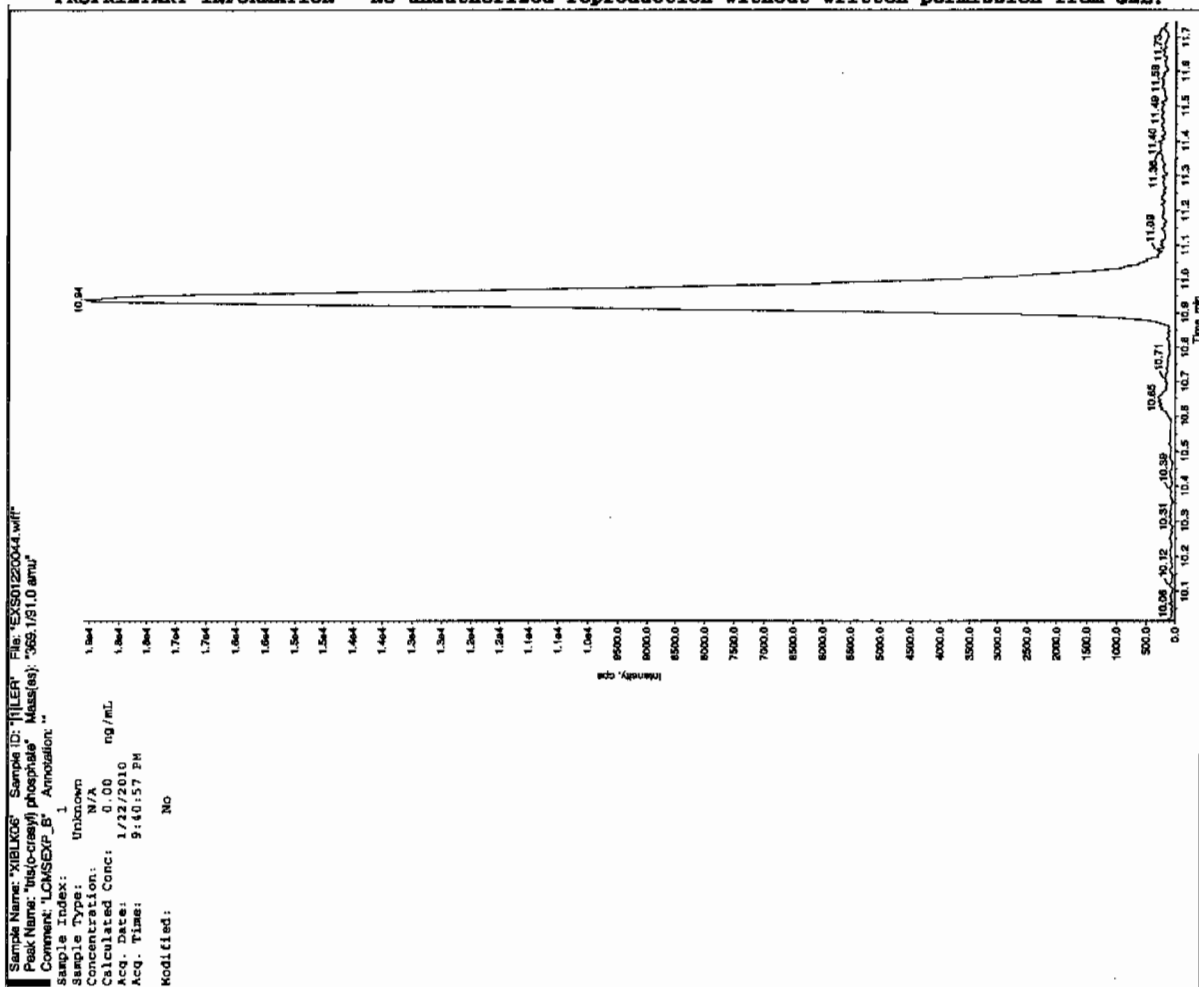


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sen 01/25/10



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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1131

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 22-JAN-10 23:30

GEL Data File: EXS01220051.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

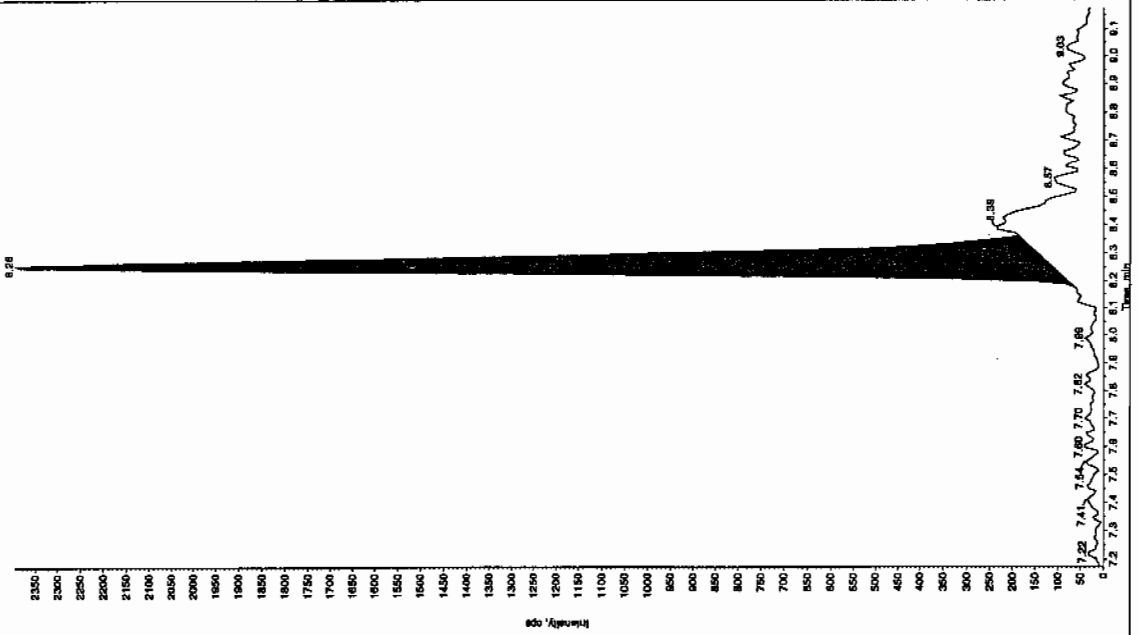
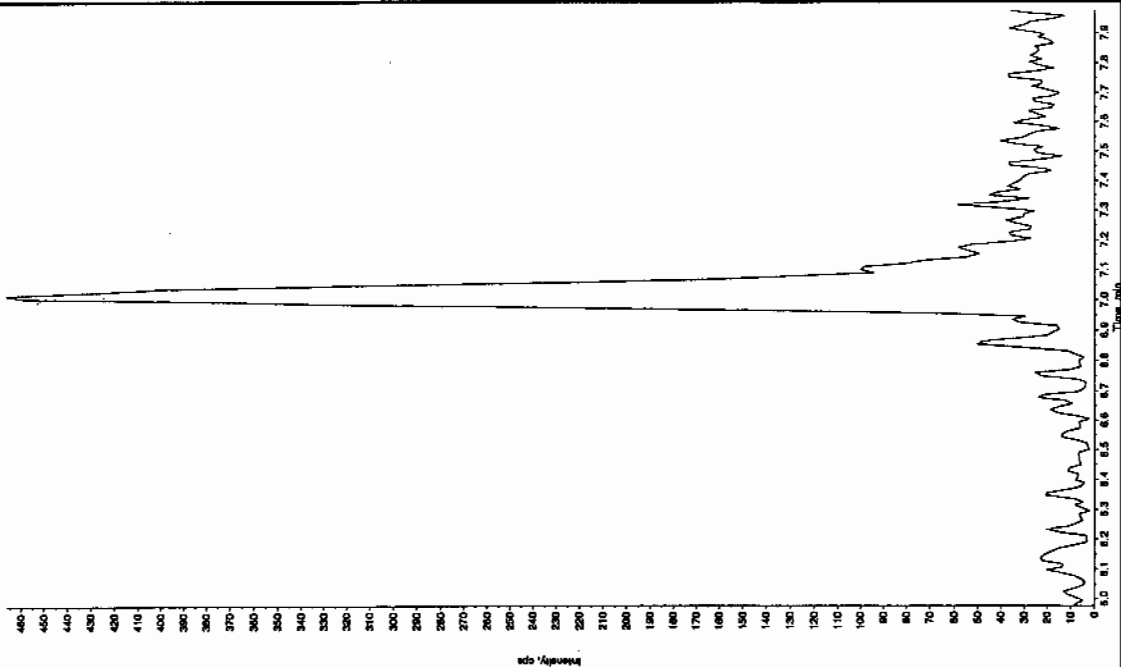
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

San 1125110

Sample Name: "XBLK07" Sample ID: "JILER" File: "EX501220051.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 11:30:55 PM
 Acq. Time: 11:30:55 PM
 Modified: No

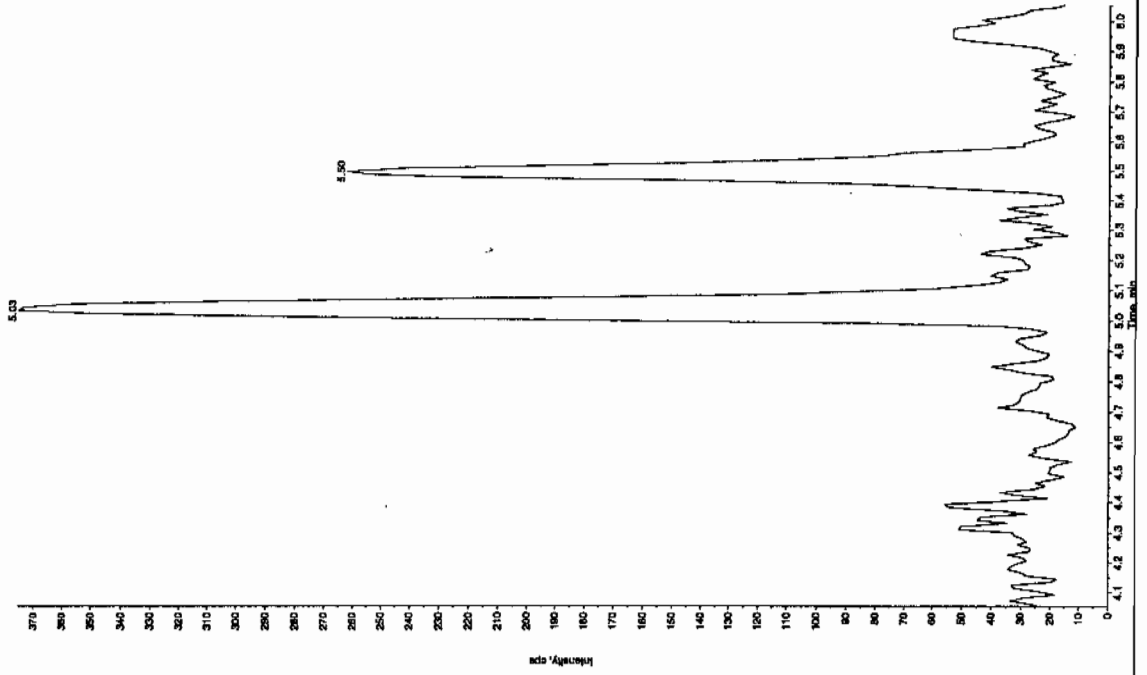
Proc. Algorithm: IntelliQuan - IGA
 Min. Peak Height: 2000 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.26 min
 Area: 9.68e+003 counts
 Height: 2280.444 cps
 Start Time: 8.17 min
 End Time: 8.36 min



Handwritten signature/initials.

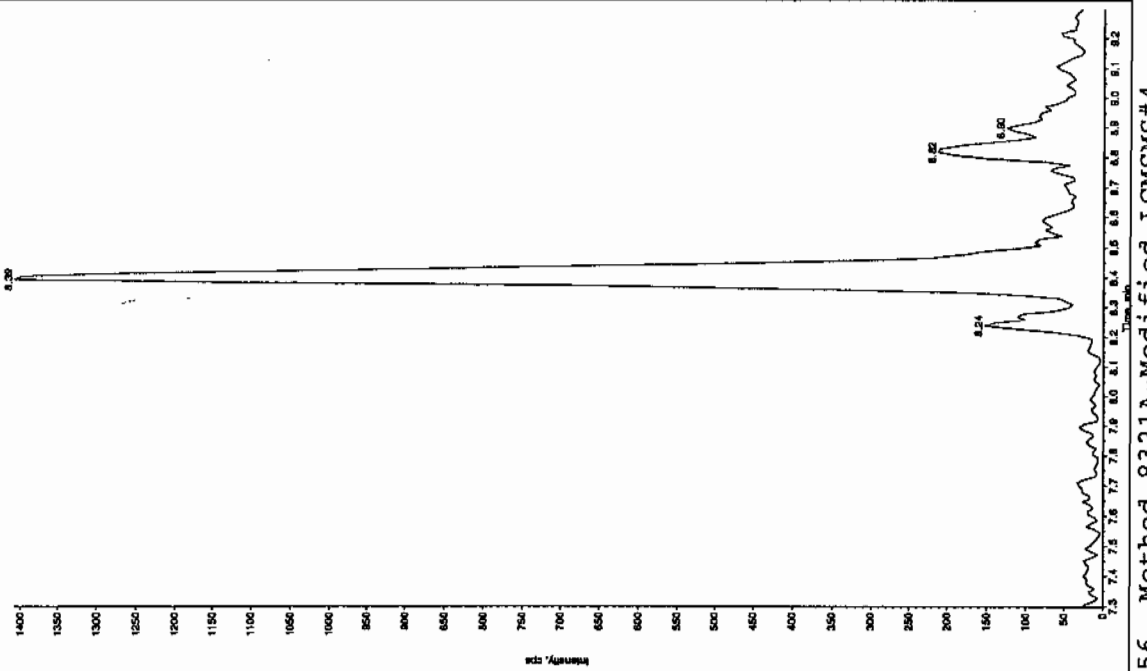
Sample Name: "XBLX07" Sample ID: "TILER" File: "EX501220051.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 11:30:55 PM
 Modified: No

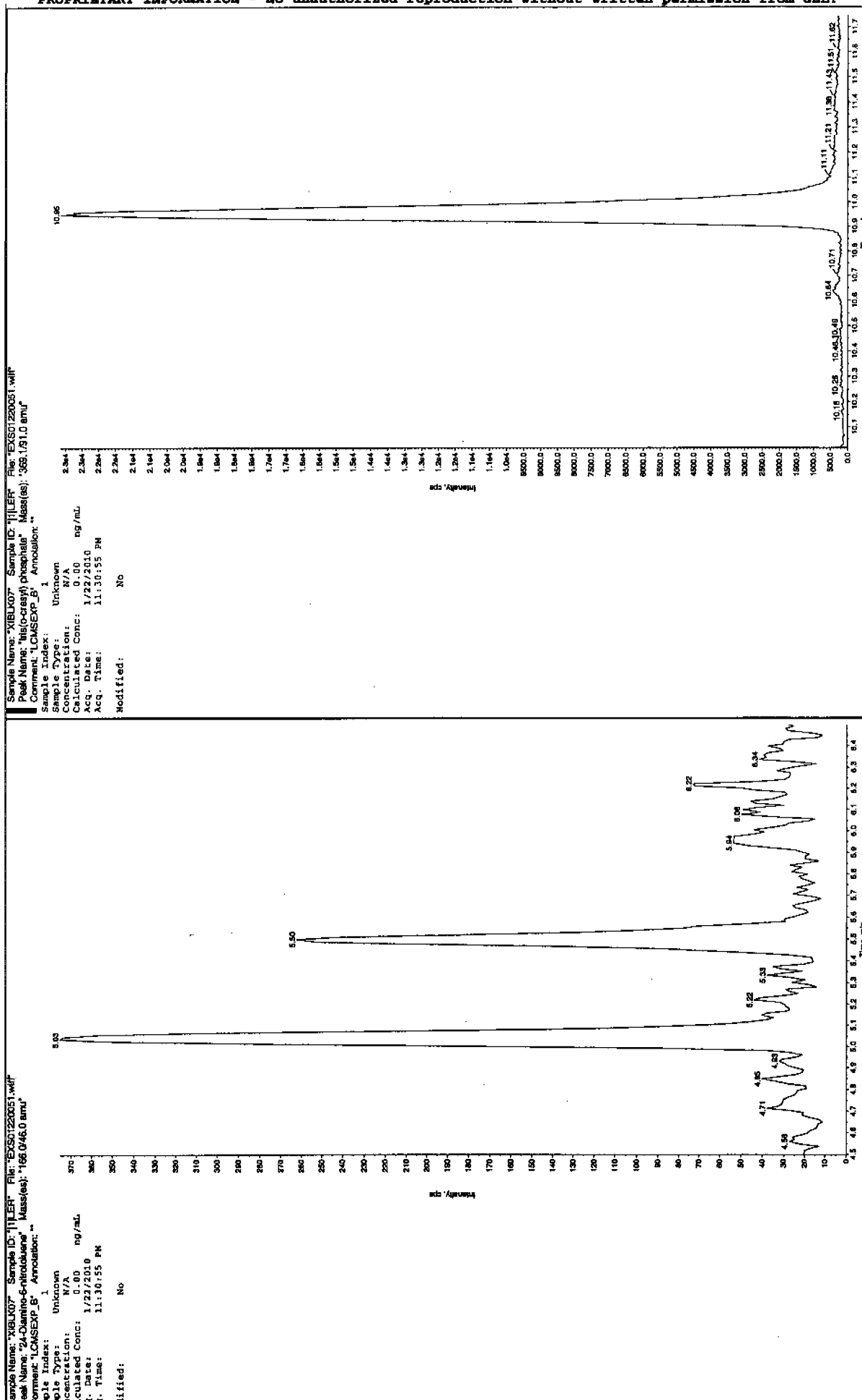


Sample Name: "XBLX07" Sample ID: "TILER" File: "EX501220051.wif"
 Peak Name: "34-Oxiradene" Mass(es): "162.17151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 11:30:55 PM
 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

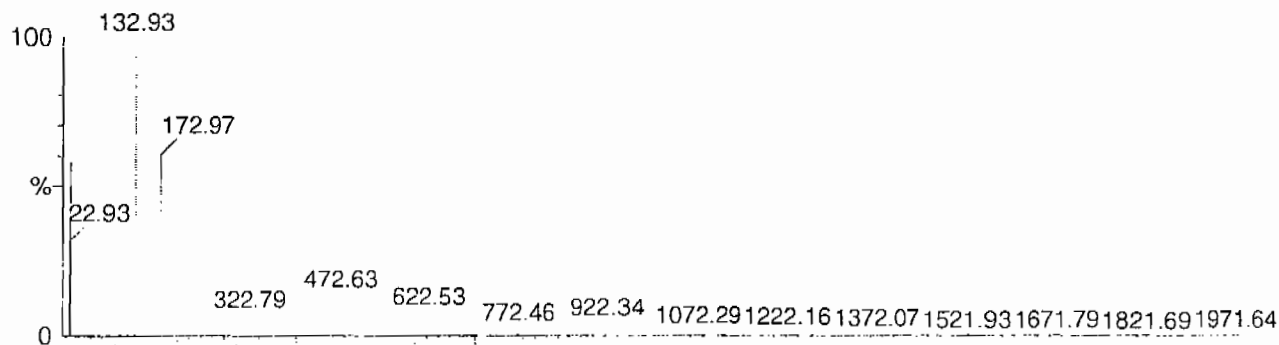
Calibration Report - MS1 Static

Page 1 of 1

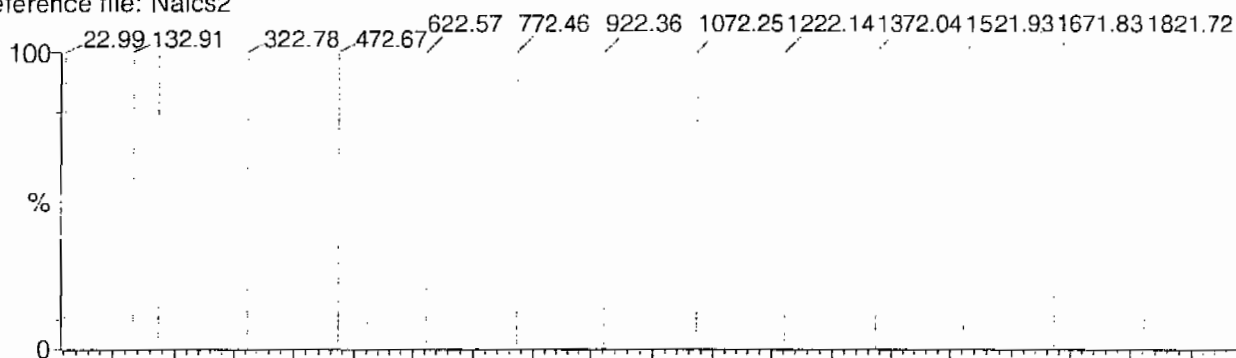
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

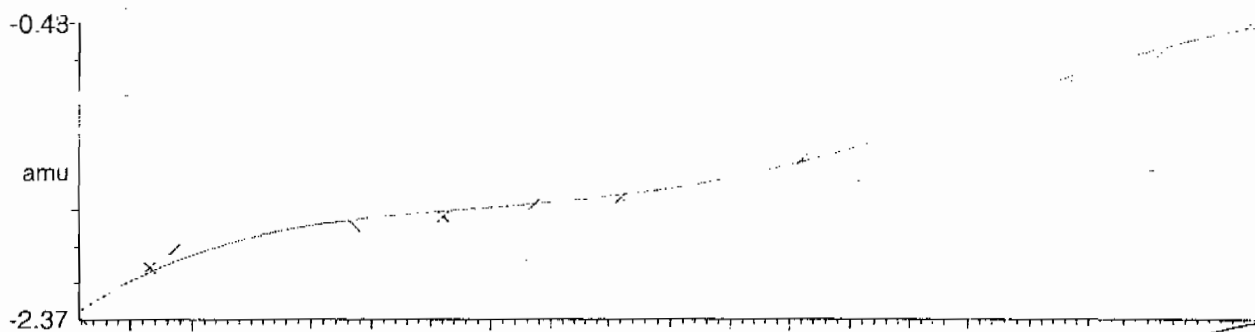
15 matches of 15 tested references



Reference file: Naics2

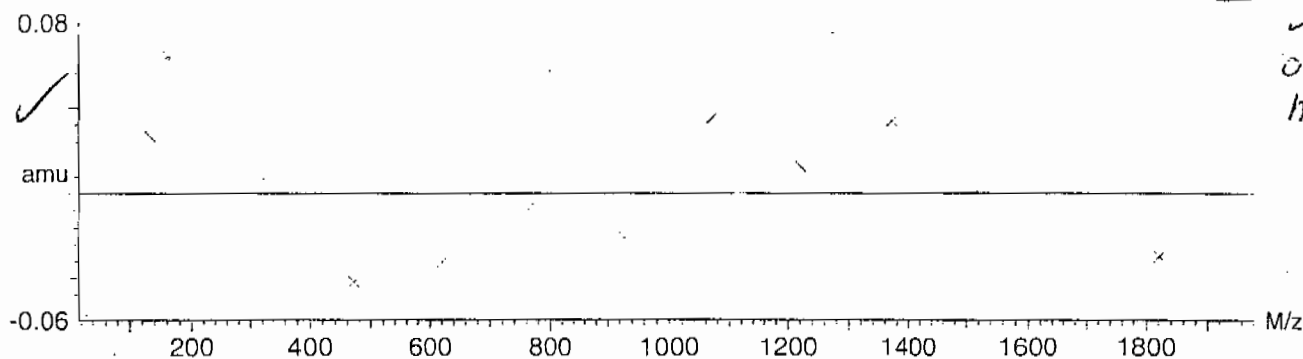


Mass difference (Raw - Ref mass)



Residuals

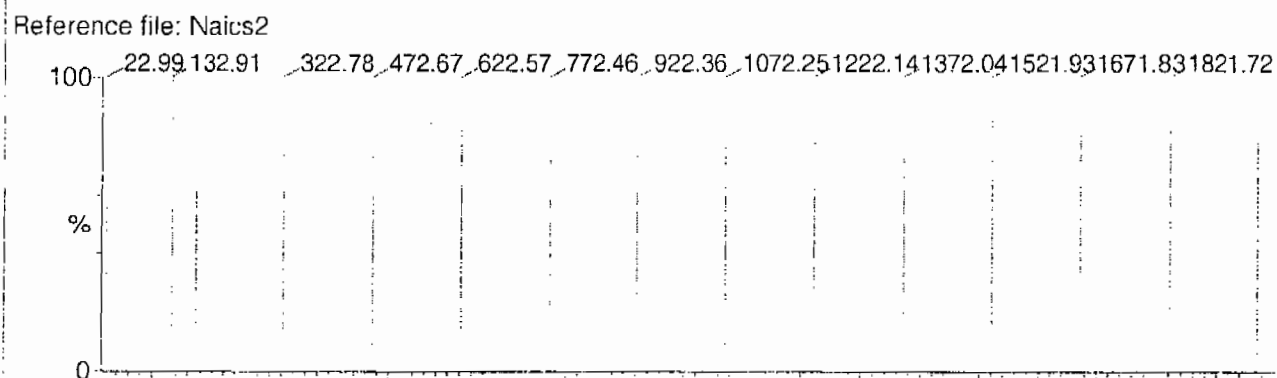
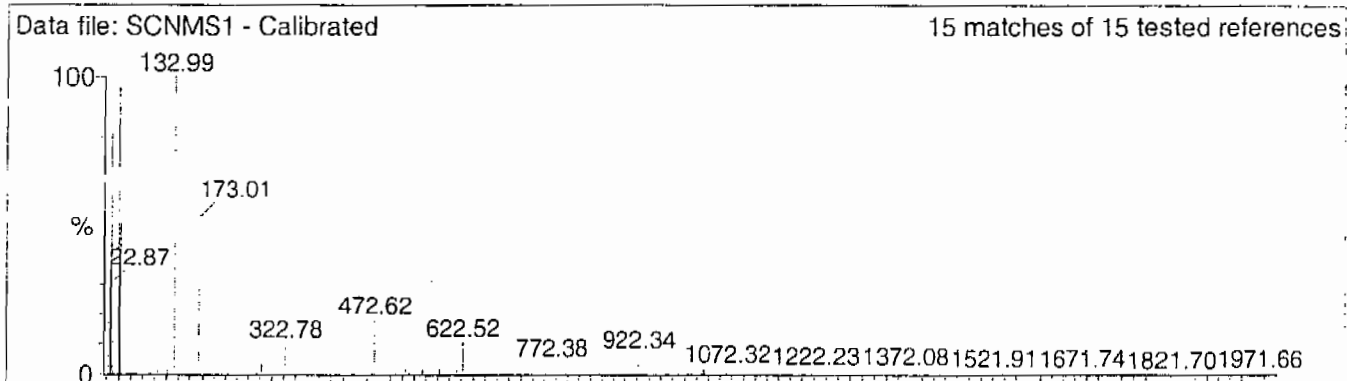
Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



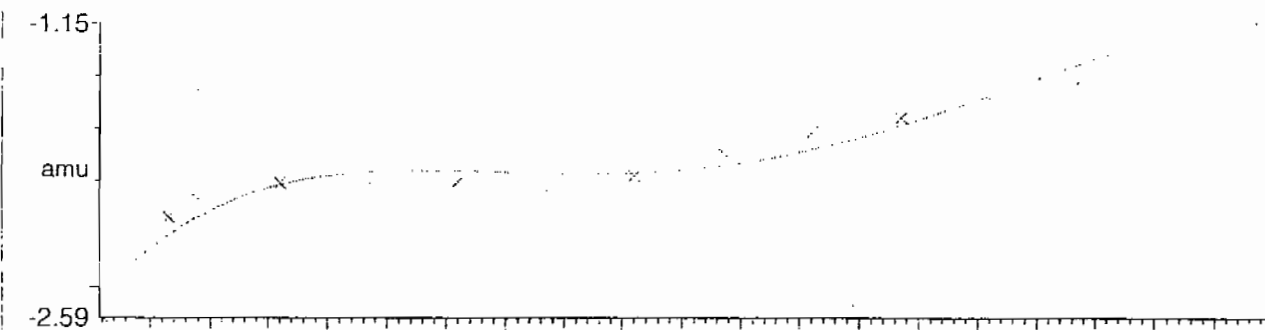
Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Fri Aug 25 10:51:06 2006

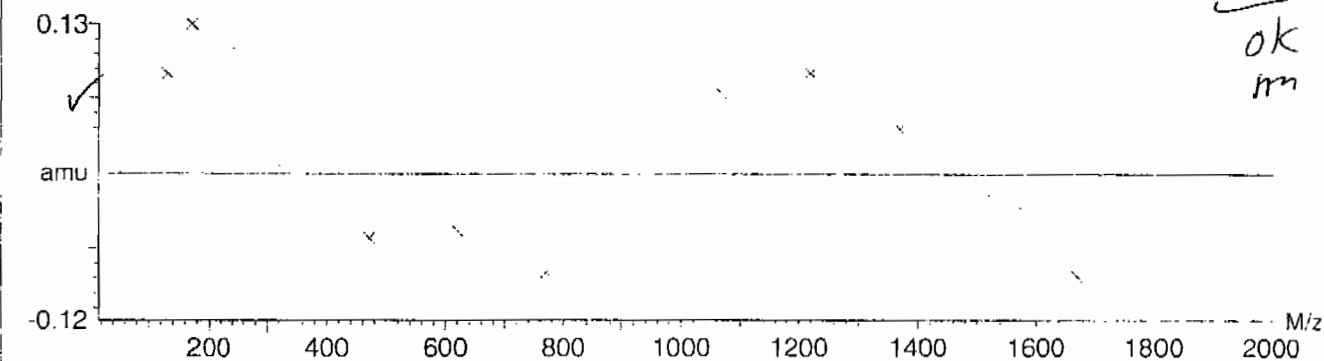


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715e-9 \pm 0.069858$



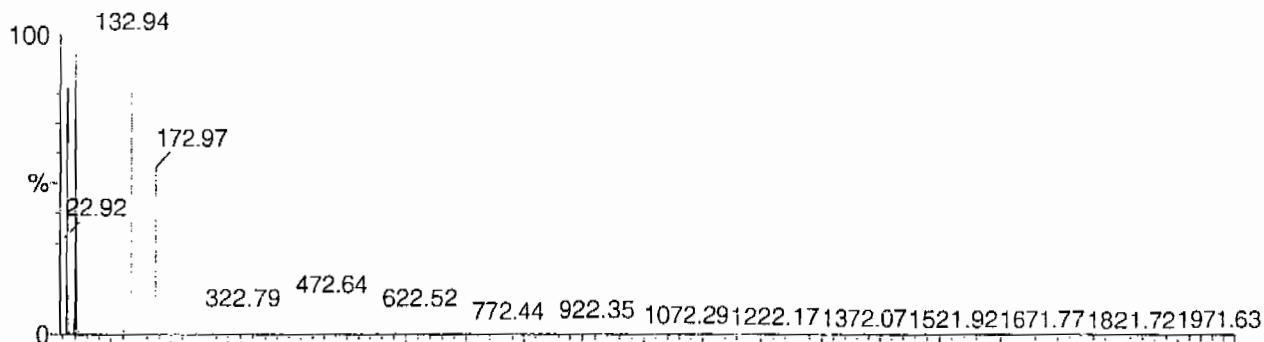
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

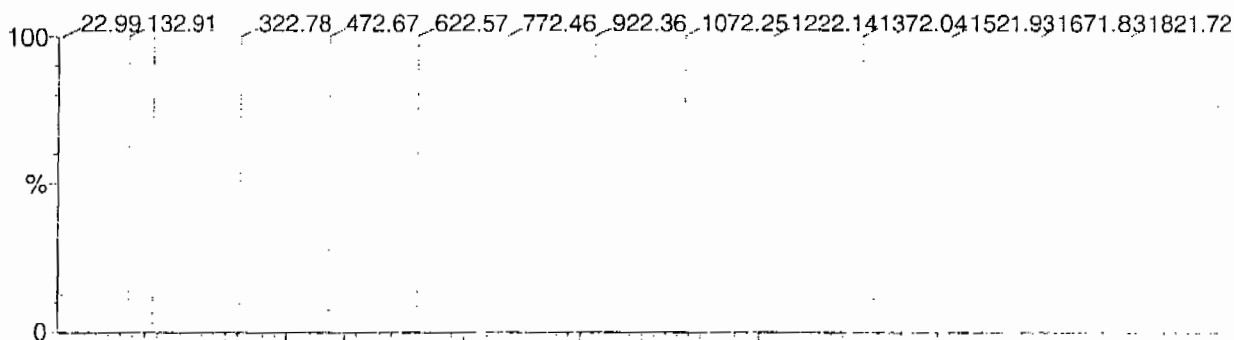
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

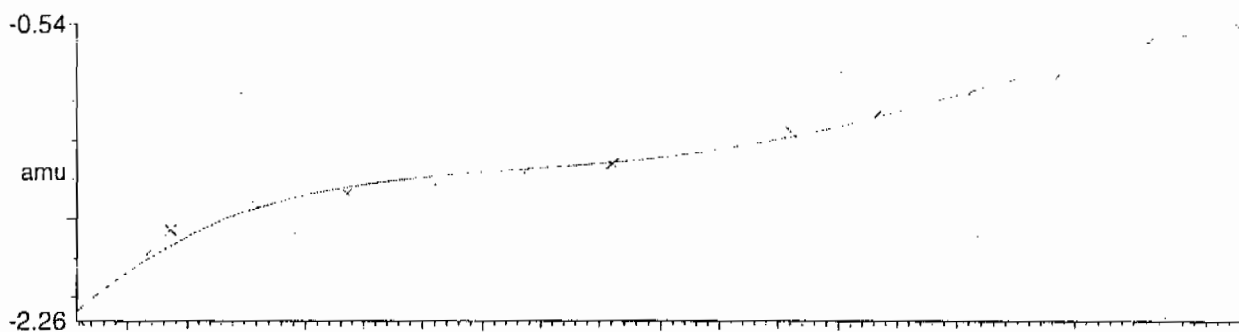
15 matches of 15 tested references



Reference file: Naics2

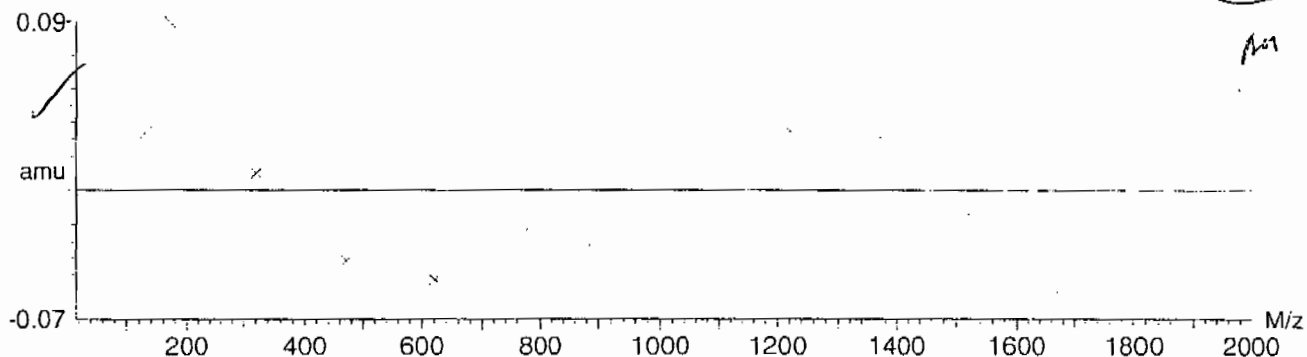


Mass difference (Raw - Ref mass)



Residuals

Mean residual = 3.486639×10^{-9} ± 0.040487

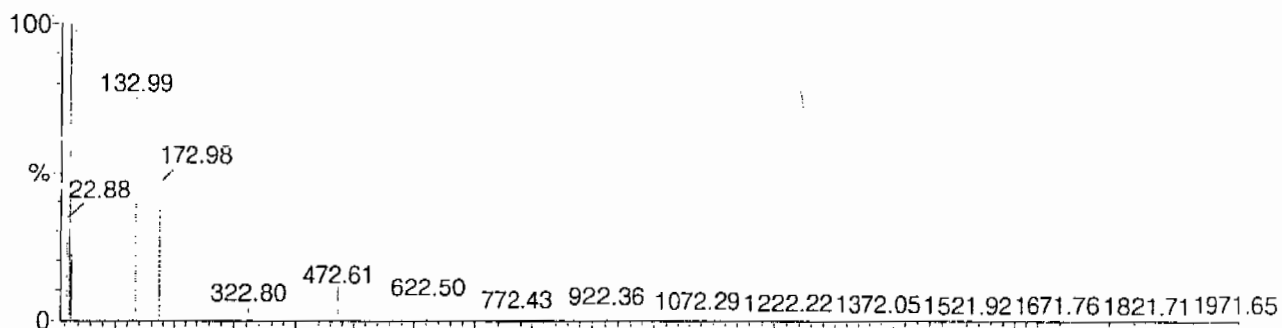


Calibration Report - MS2 Static

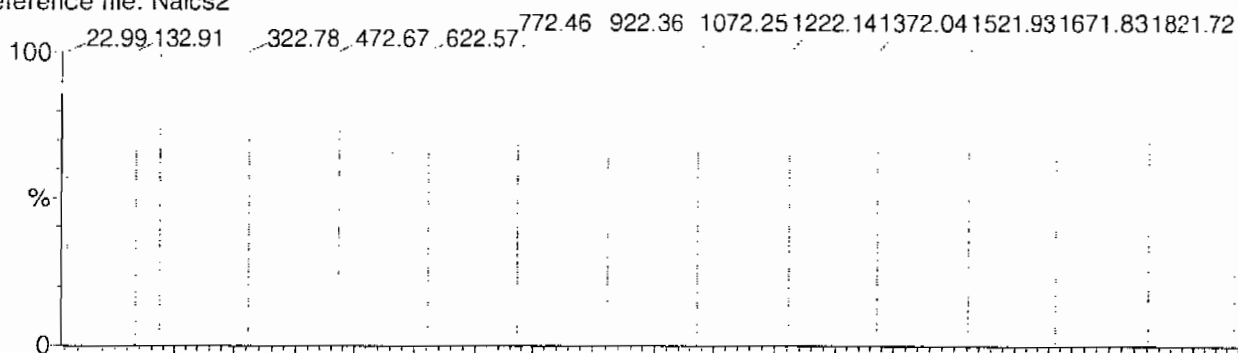
Page 1 of 1

Printed: Fri Aug 25 10:52:54 2006

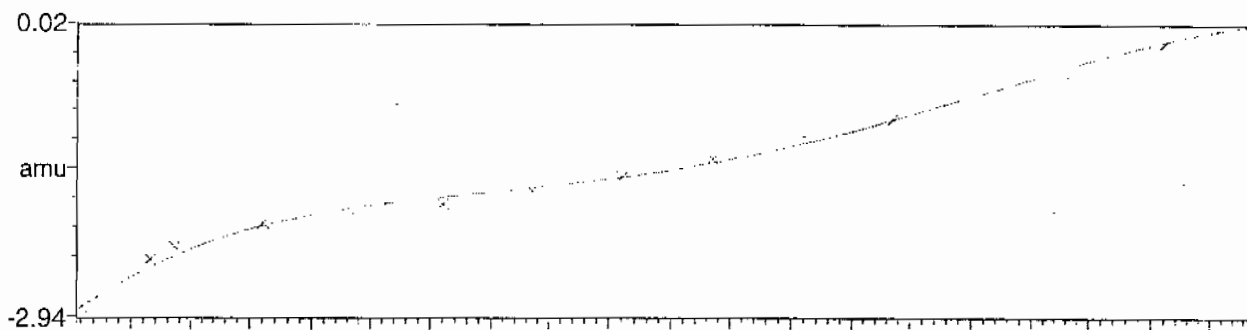
Data file: STATMS2 - Calibrated 15 matches of 15 tested references



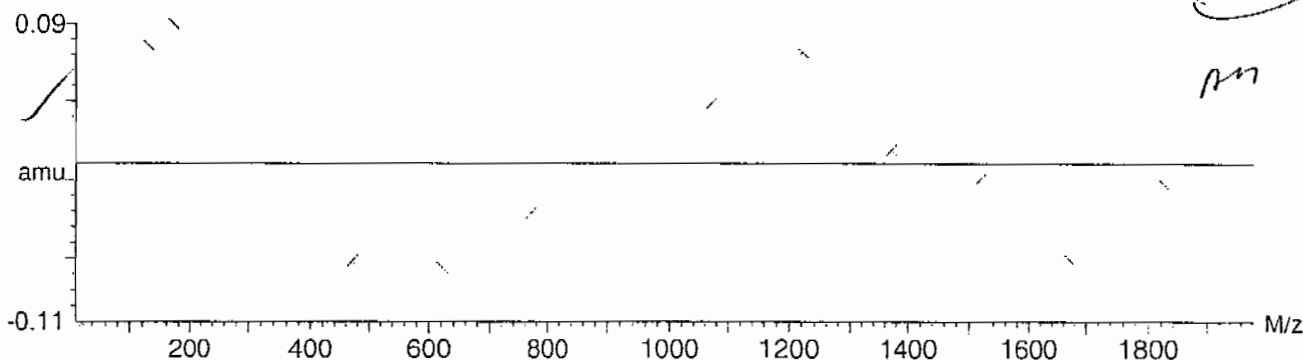
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals



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

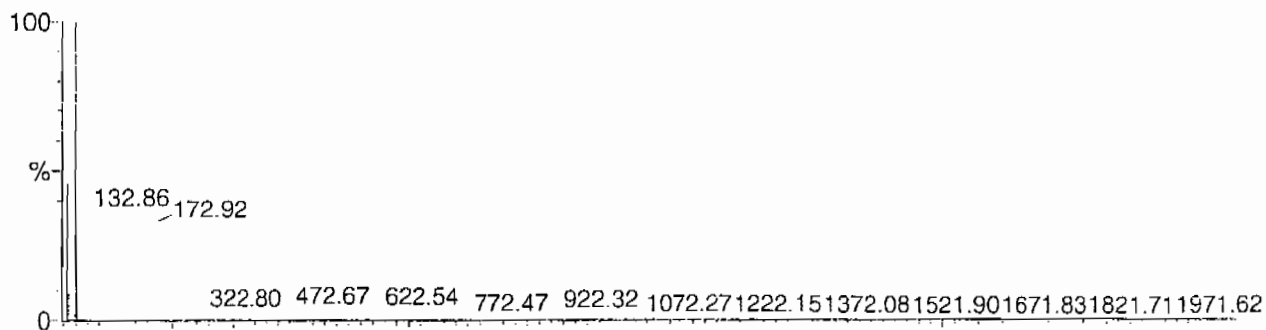
Calibration Report - MS2 Scanning

Page 1 of 1

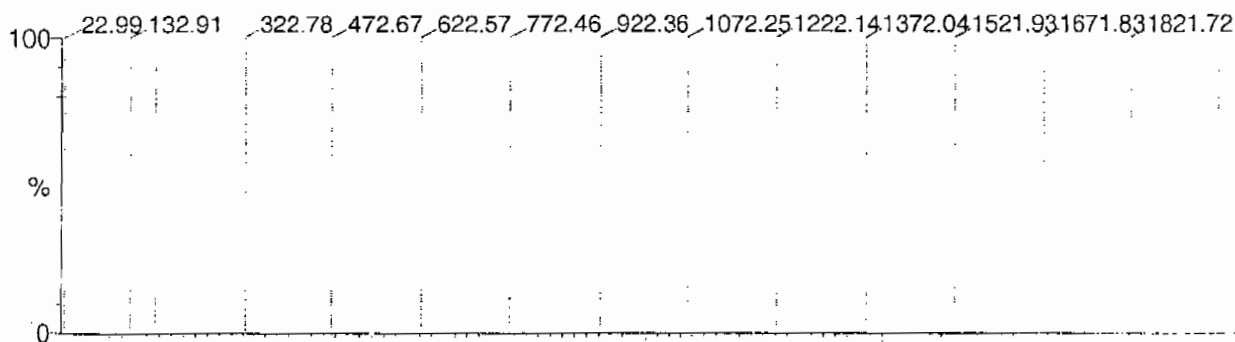
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

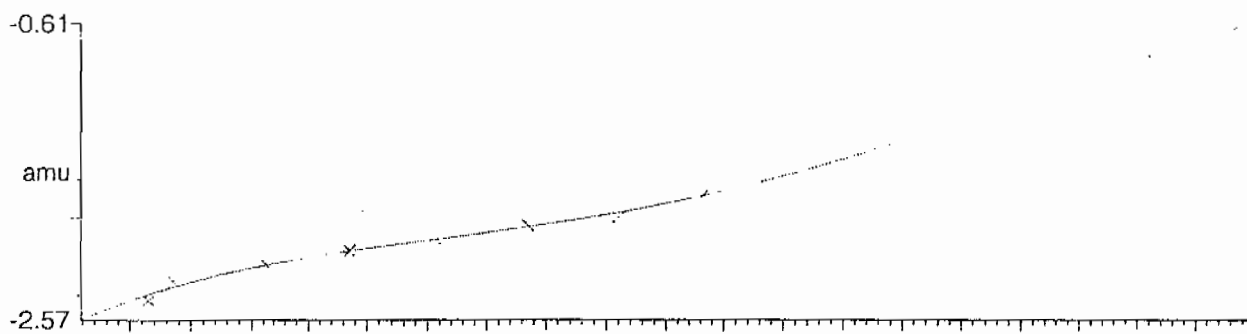
14 matches of 15 tested references



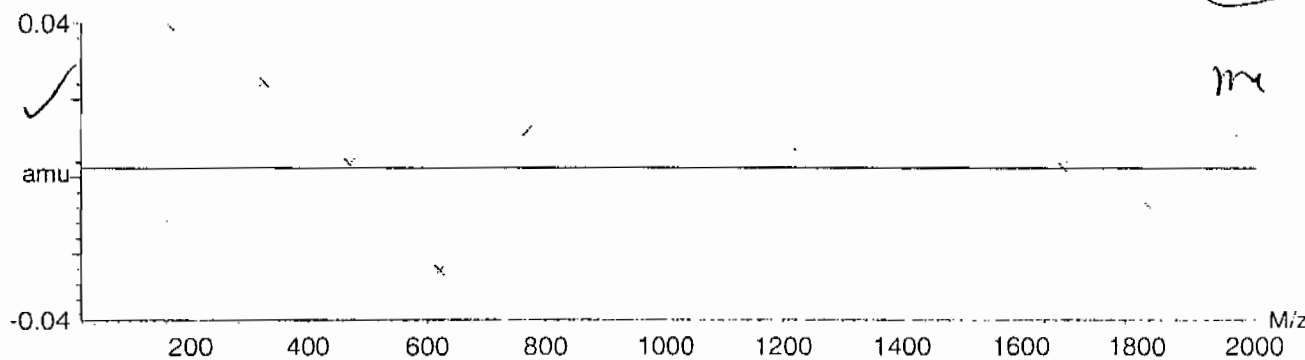
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals



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

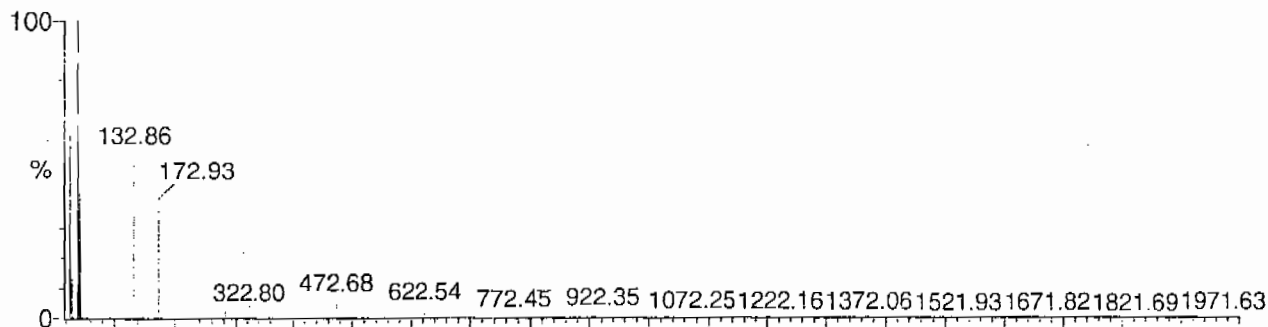
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

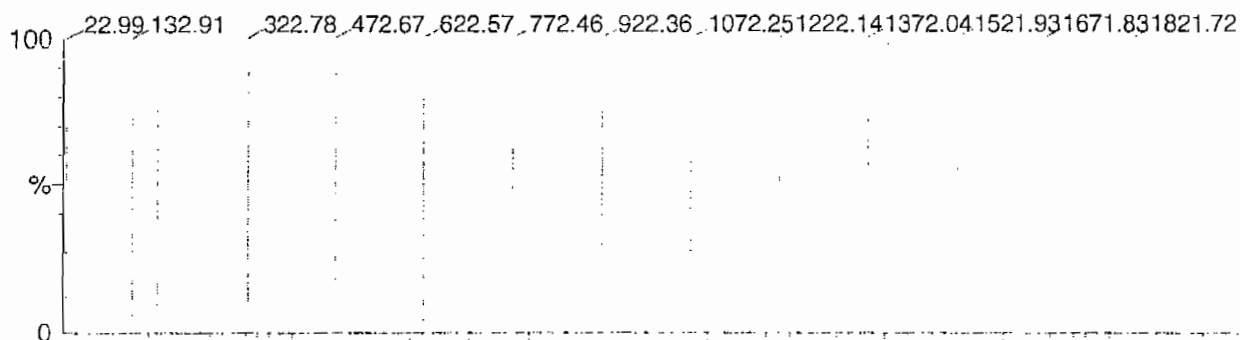
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

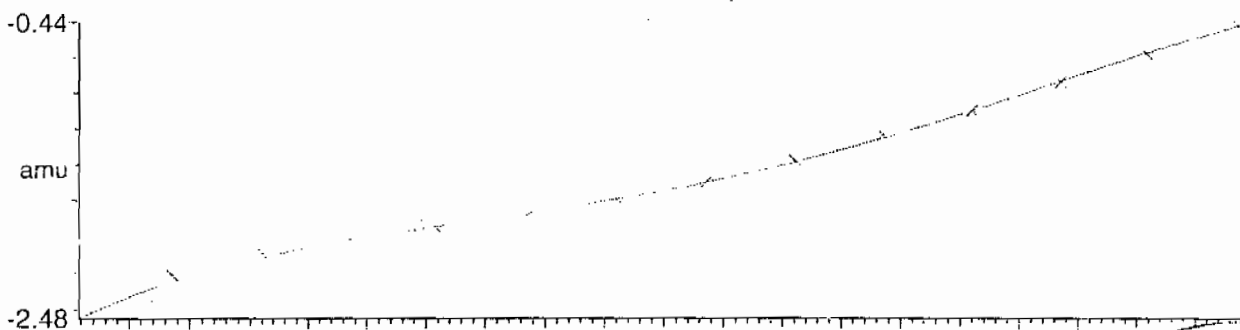
14 matches of 15 tested references



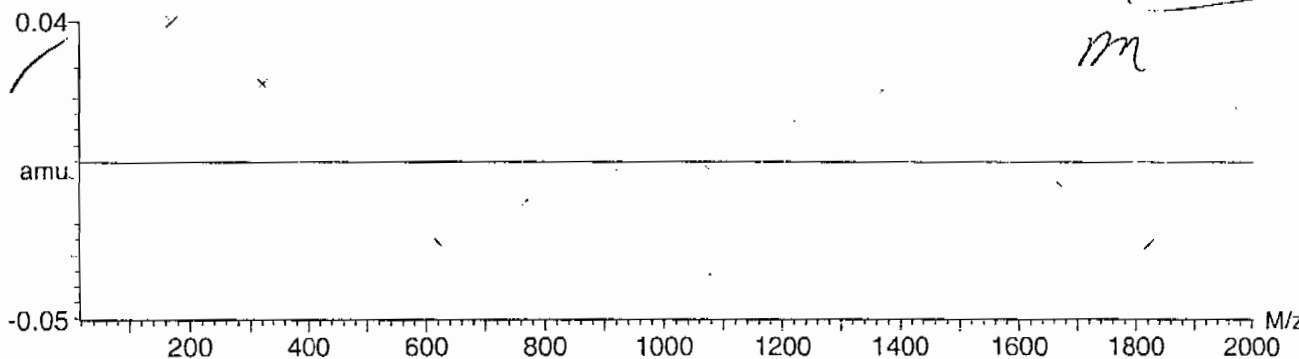
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals

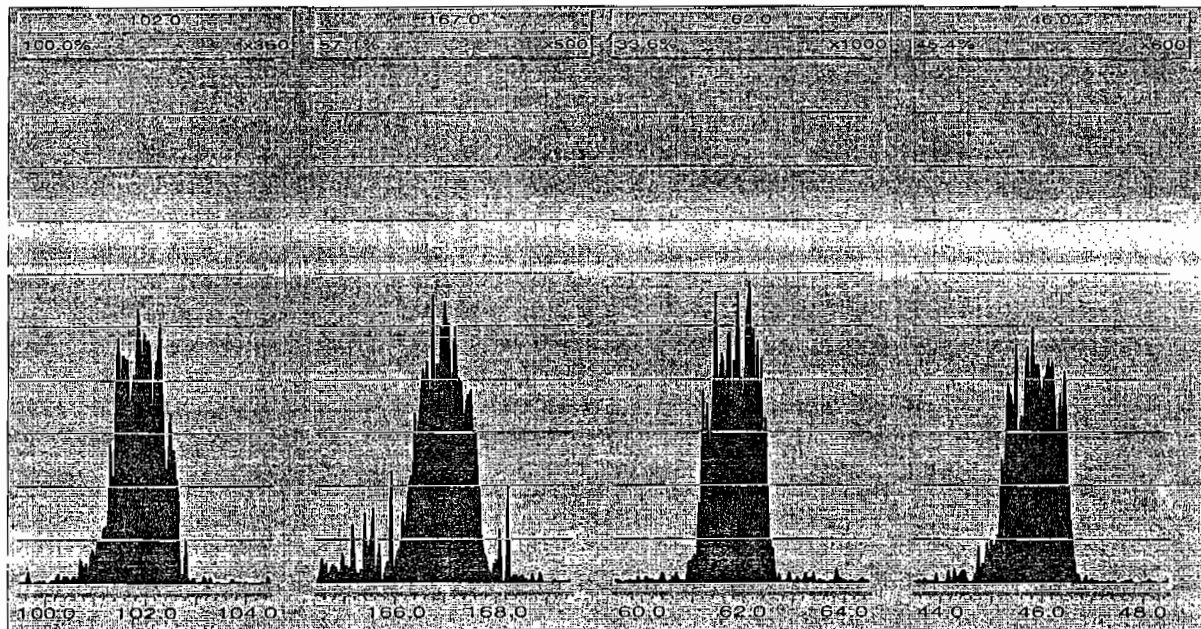


Quattro Micro Tune Parameters

Page 1

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

Printed : Mon Jan 25 11:18:26 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

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) #
			2968.4	11.902	16298.333	17.149
Upper Limit			3858.92	12.402	21187.8329	17.649
Lower Limit			2077.88	11.402	11408.8331	16.649
MB for batch 940063	26-jan-10 05:02	EXP0125037a	3242.56	11.894	19259.8	17.117
LCS for batch 940063	26-jan-10 05:32	EXP0125038a	3363.47	11.894	18100.5	17.138
RE12-10-7634	26-jan-10 06:01	EXP0125039a	3263.26	11.891	18305.8	17.127
RE12-10-7634(244126001MS)	26-jan-10 06:31	EXP0125040a	3306.38	11.894	19310.8	17.138
RE12-10-7634(244126001MSD)	26-jan-10 07:01	EXP0125041a	3354.5	11.894	20223.2	17.138
RE12-10-7648	26-jan-10 07:30	EXP0125042a	3055.42	11.894	17313.1	17.138
RE12-10-7638	26-jan-10 07:59	EXP0125043a	3154.15	11.894	17686.1	17.138
RE12-10-7639	26-jan-10 08:29	EXP0125044a	3109.66	11.894	18253.4	17.138
RE12-10-7633	26-jan-10 08:58	EXP0125045a	3269.67	11.891	17613	17.127
RE12-10-7647	26-jan-10 09:28	EXP0125046a	3400.94	11.891	17370.3	17.127
RE12-10-7644	26-jan-10 11:26	EXP0125050a	3175.9	11.893	17780.6	17.138
RE12-10-7637	26-jan-10 11:56	EXP0125051a	3143.34	11.894	17766.6	17.138
RE12-10-7635	26-jan-10 12:25	EXP0125052a	3198.21	11.894	17479.6	17.16
RE12-10-7642	26-jan-10 12:55	EXP0125053a	3640.18	11.894	19794.4	17.138
RE12-10-7649	26-jan-10 13:24	EXP0125054a	3461.37	11.893	19046.7	17.159
RE12-10-7650	26-jan-10 13:54	EXP0125055a	3554.32	11.894	20408.7	17.138
RE12-10-7641	26-jan-10 14:23	EXP0125056a	3489.44	11.891	18377.4	17.149
RE12-10-7643	26-jan-10 14:53	EXP0125057a	3635.62	11.894	19766.8	17.138
RE12-10-7640	26-jan-10 15:22	EXP0125058a	3749.87	11.891	20518.6	17.149
RE12-10-7645	26-jan-10 15:51	EXP0125059a	3547.48	11.894	18235.9	17.138
RE12-10-7646	26-jan-10 17:49	EXP0125063a	3428.7	11.893	19095.7	17.16
RE12-10-7636	26-jan-10 18:19	EXP0125064a	3462.09	11.893	18031.6	17.138
RE12-10-7657	26-jan-10 18:49	EXP0125065a	2872.29	11.893	16584.7	17.159
RE12-10-7658	26-jan-10 19:18	EXP0125066a	3144.48	11.893	17716.3	17.159

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

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

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: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125039a

Date Analyzed: 26-JAN-10 06:01

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\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125039a

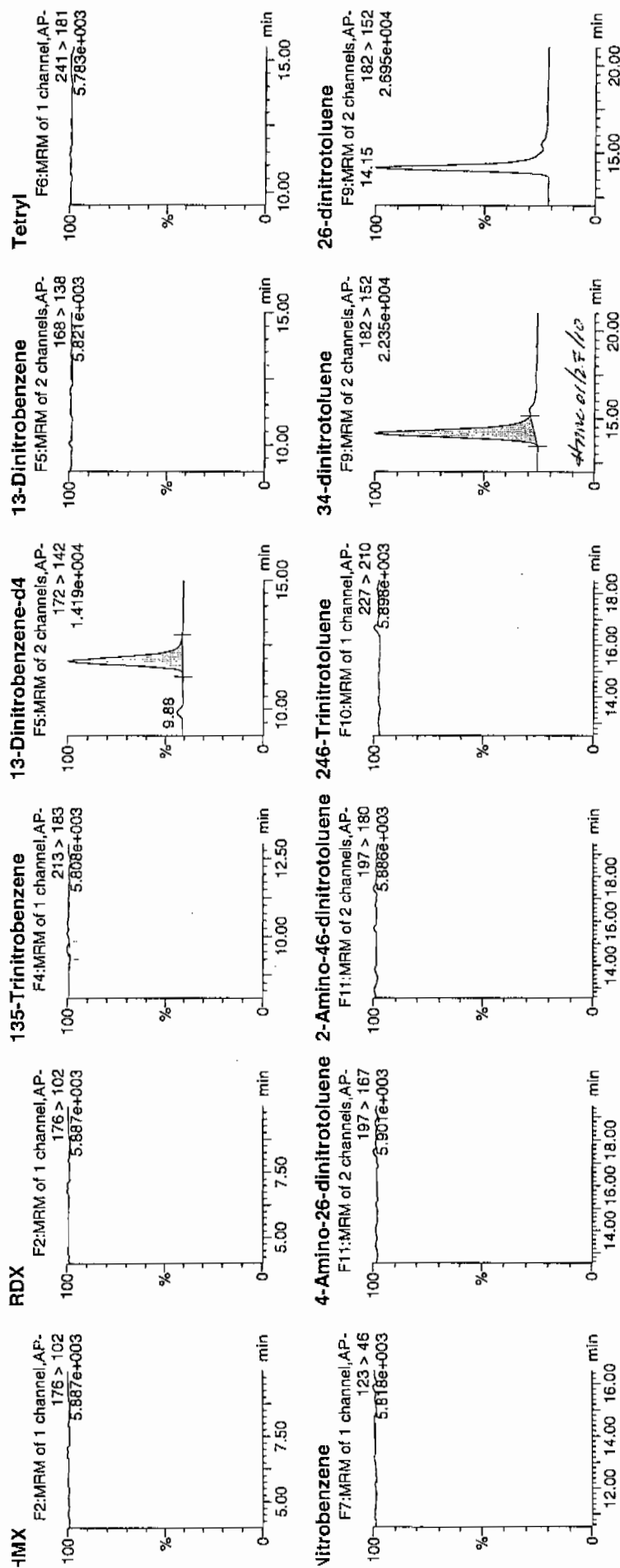
Date: 26-Jan-2010

Time: 06:01:54

D: 244126001

Vial: 3:1,C

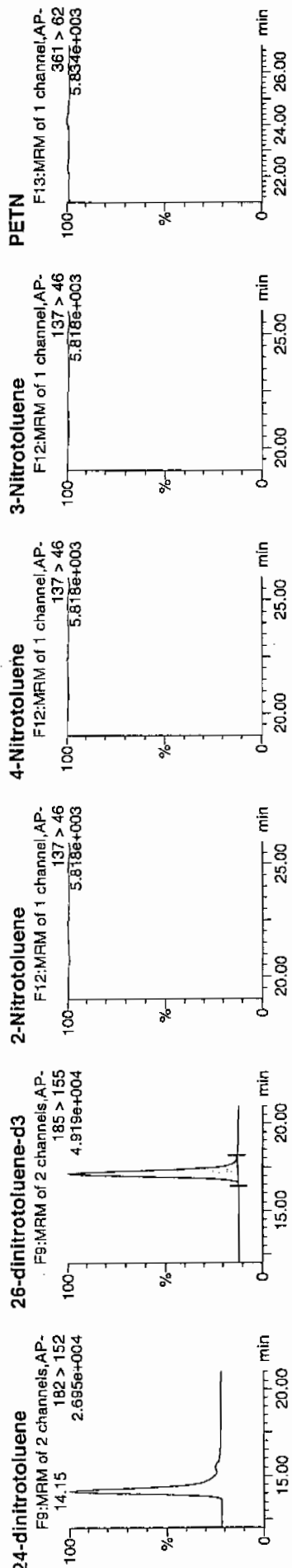
1647
1/27/10
WAVE | 940071 | SOLU | 2 |



Printed: Wed Jan 27 09:26:20 2010, Page 6 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



ID	Name	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	SN
244126001	HMX	176 > 102		3263.255									
244126001	RDX	176 > 102		3263.255									
244126001	135-Trinitrobenzene	213 > 183		3263.255									
244126001	13-Dinitrobenzene-d4	172 > 142	11.89	3263.255									
244126001	13-Dinitrobenzene	168 > 138		3263.255									
244126001	Tetryl	241 > 181		3263.255									
244126001	Nitrobenzene	123 > 46		3263.255									
244126001	4-Amino-26-dinitrotoluene	197 > 167		3263.255									
244126001	2-Amino-46-dinitrotoluene	197 > 180		18305.826									
244126001	246-Trinitrotoluene	227 > 210		18305.826									
244126001	34-dinitrotoluene	182 > 152	14.15	8933.162		8933.162							
244126001	26-dinitrotoluene	182 > 152		18305.826									
244126001	24-dinitrotoluene	182 > 152		18305.826									
244126001	26-dinitrotoluene-d3	185 > 155	17.13	18305.826									
244126001	2-Nitrotoluene	137 > 46		18305.826									
244126001	4-Nitrotoluene	137 > 46		18305.826									
244126001	3-Nitrotoluene	137 > 46		18305.826									
244126001	PETN	361 > 62		18305.826									
					3263.255	3263.255		MM-	27-Jan-10	09:08:46	549.6656	109.9	9.9
					8933.162	243.998	bb			268.7158	107.5	7.5	390.3
					18305.826	18305.826	bb			561.5856	112.3	12.3	1539.1

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220016.wiff

Date Analyzed: 22-JAN-10 14:21

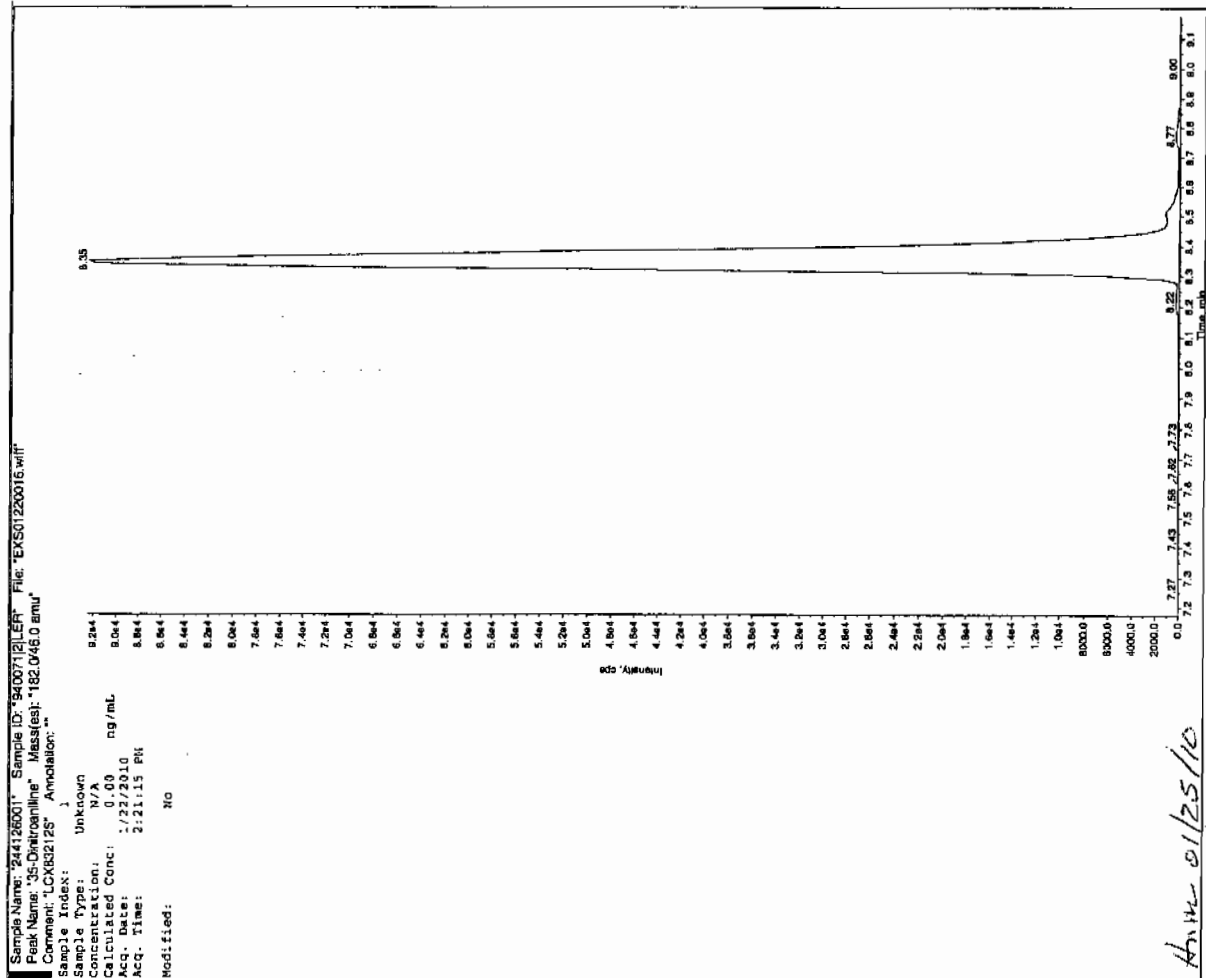
Units: ug/kg

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

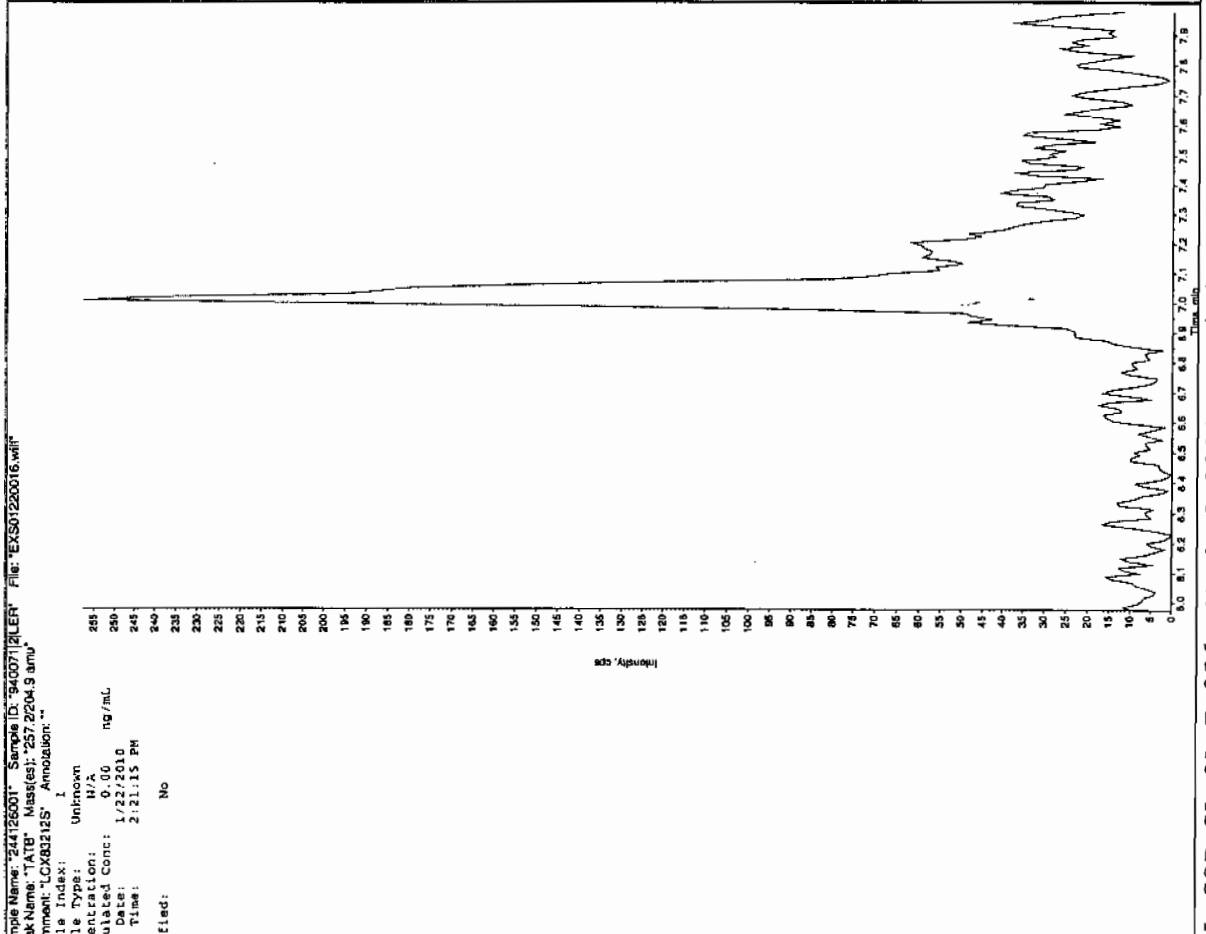
*Concentration =

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

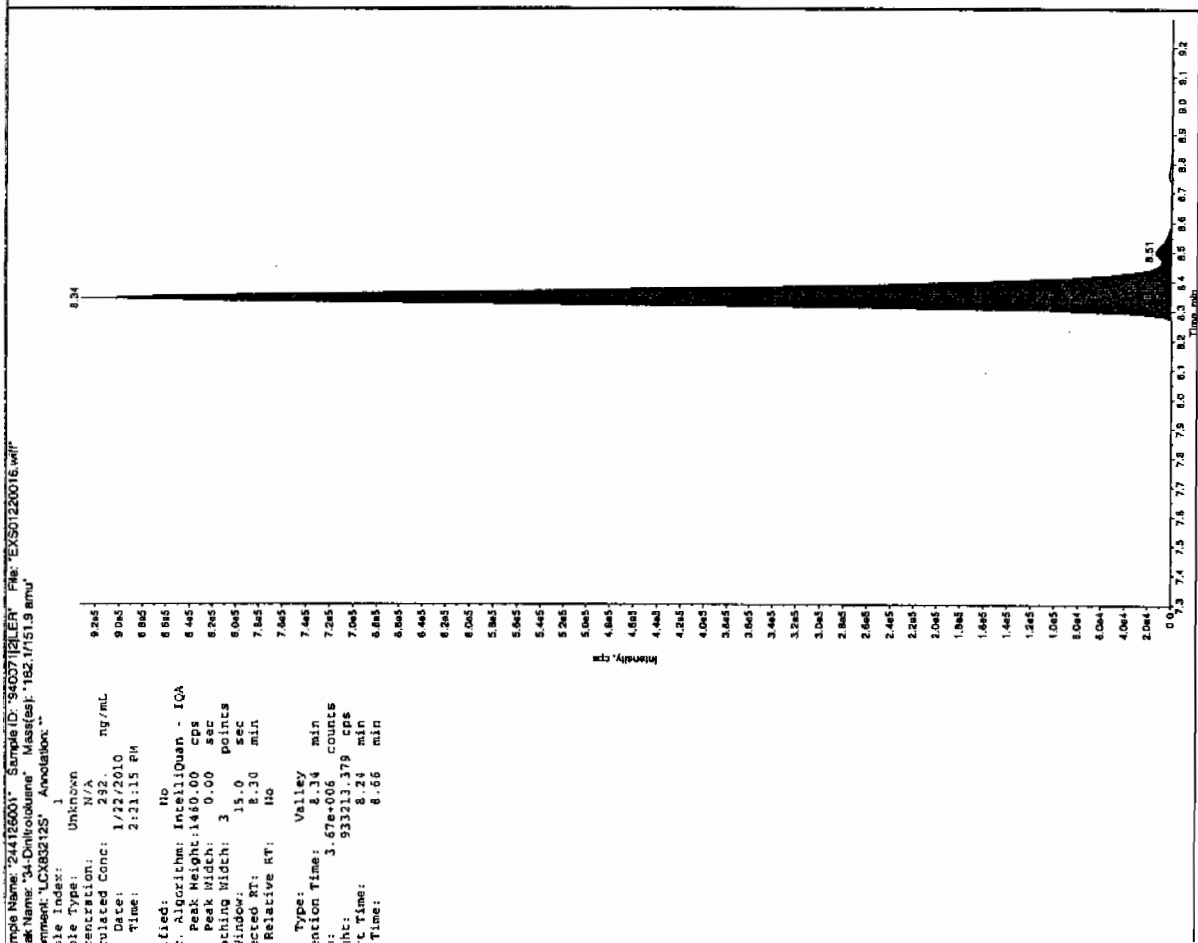
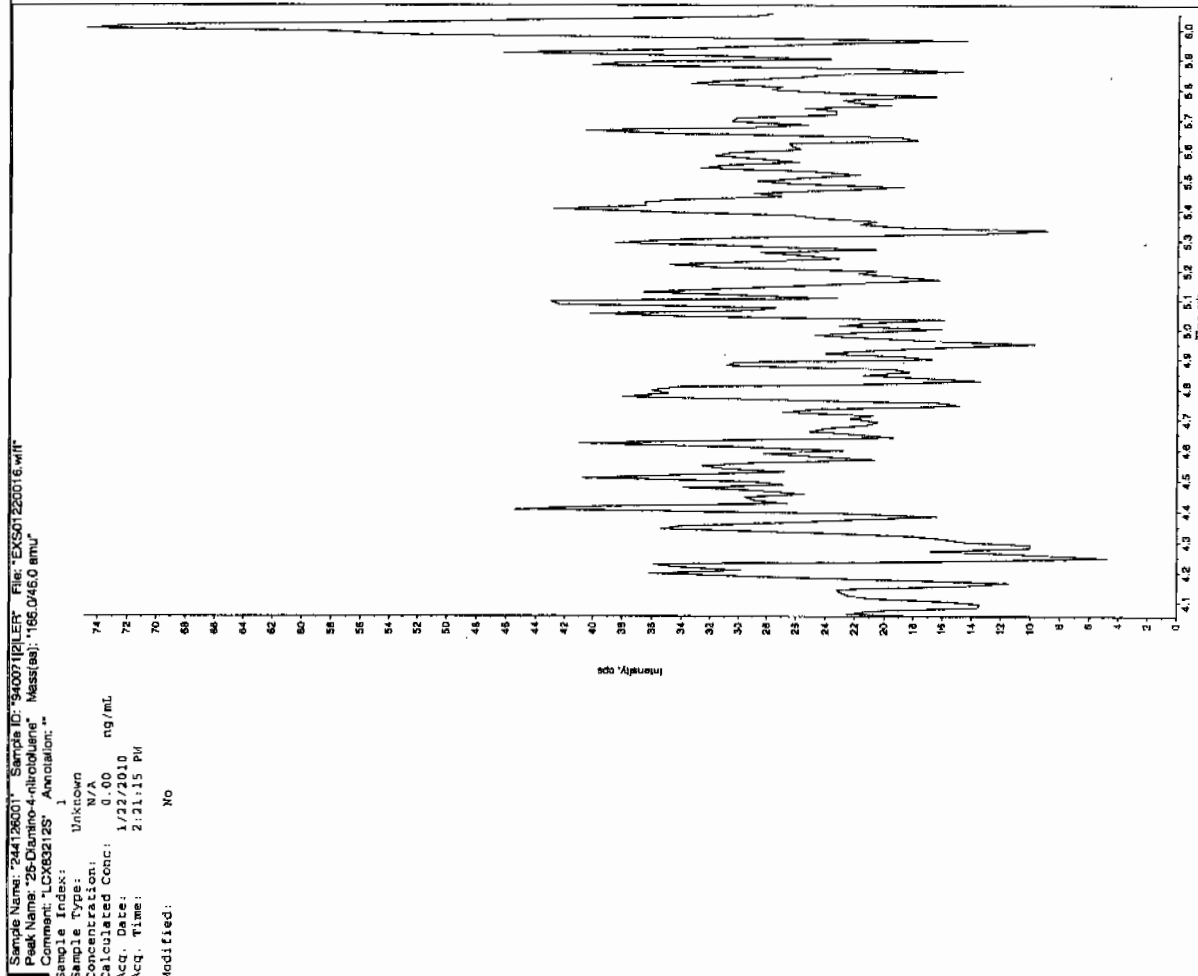
Ken 1/25/10

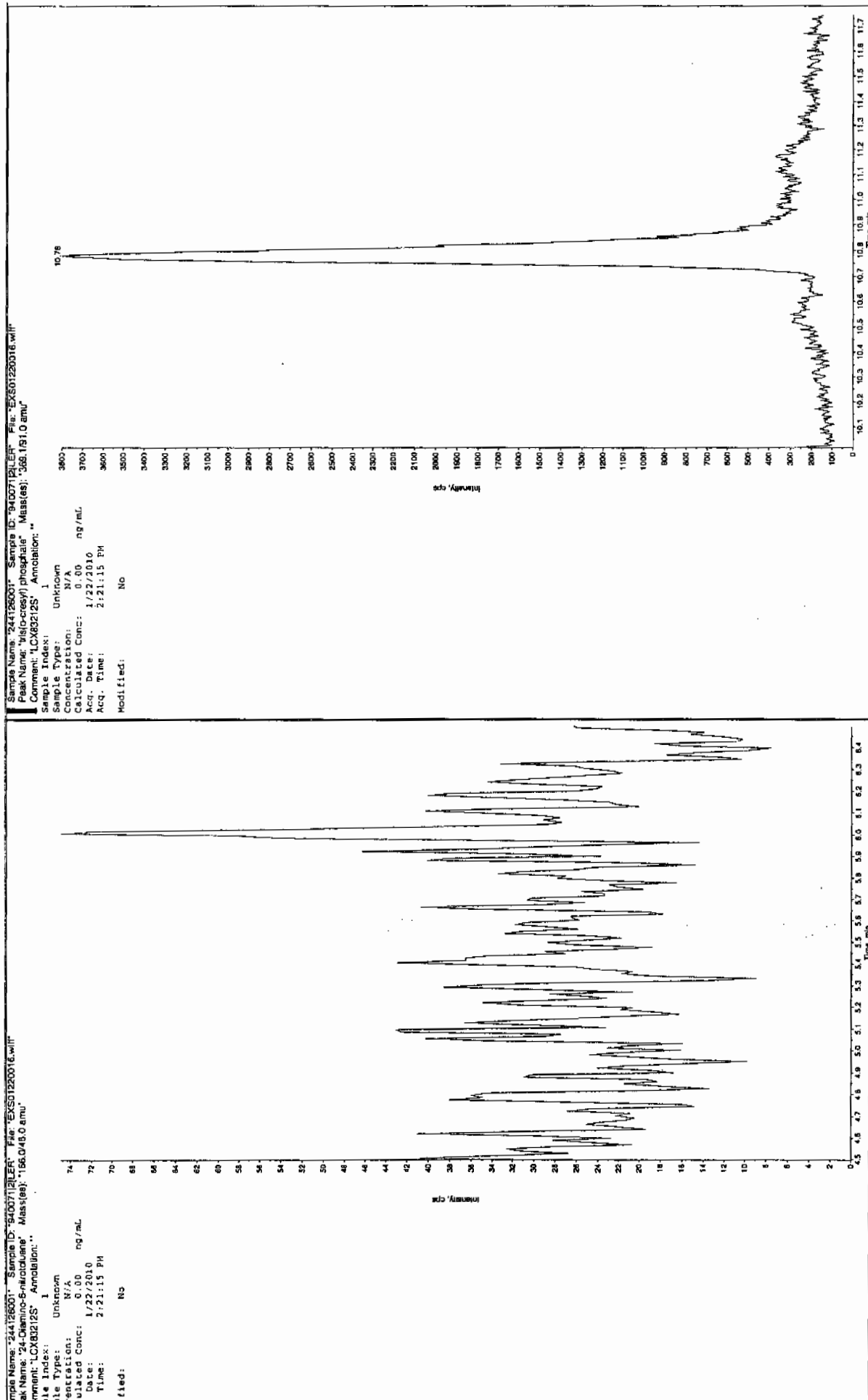


Ken 1/25/10



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





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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7648

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125042a

Date Analyzed: 26-JAN-10 07:30

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125042a

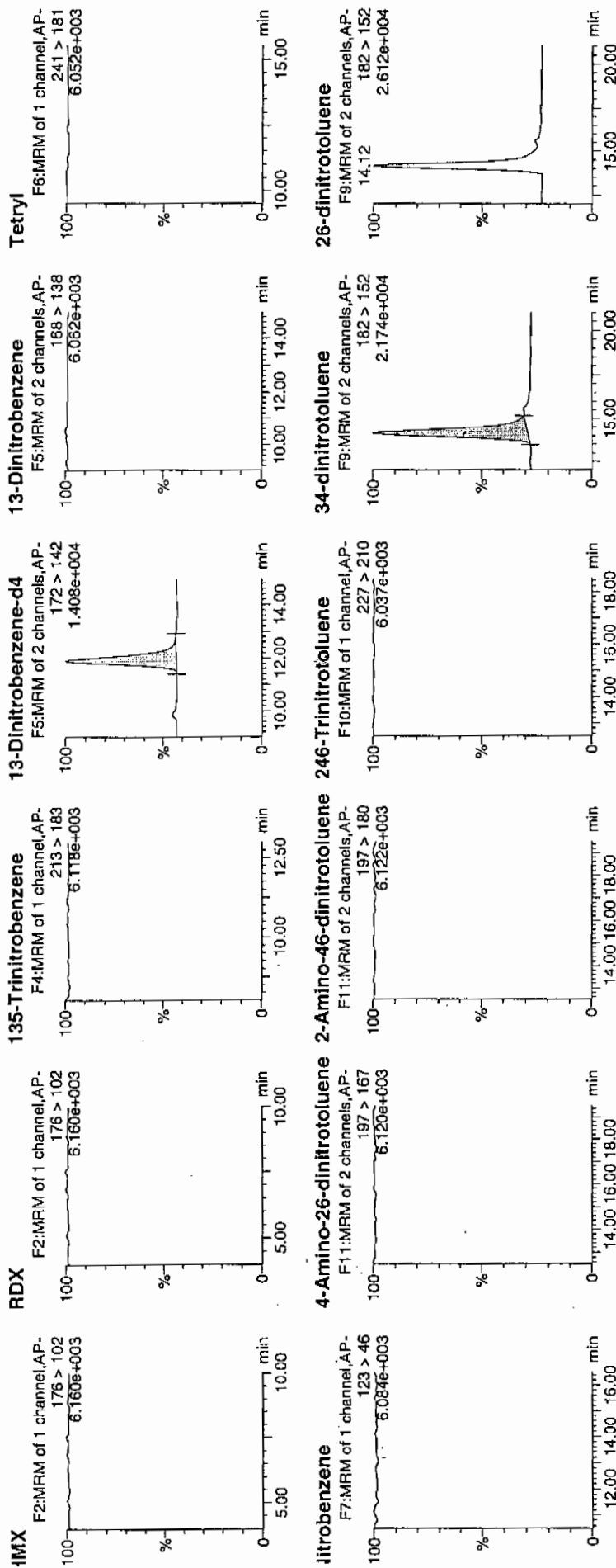
Date: 26-Jan-2010

Time: 07:30:32

ID: 244126002

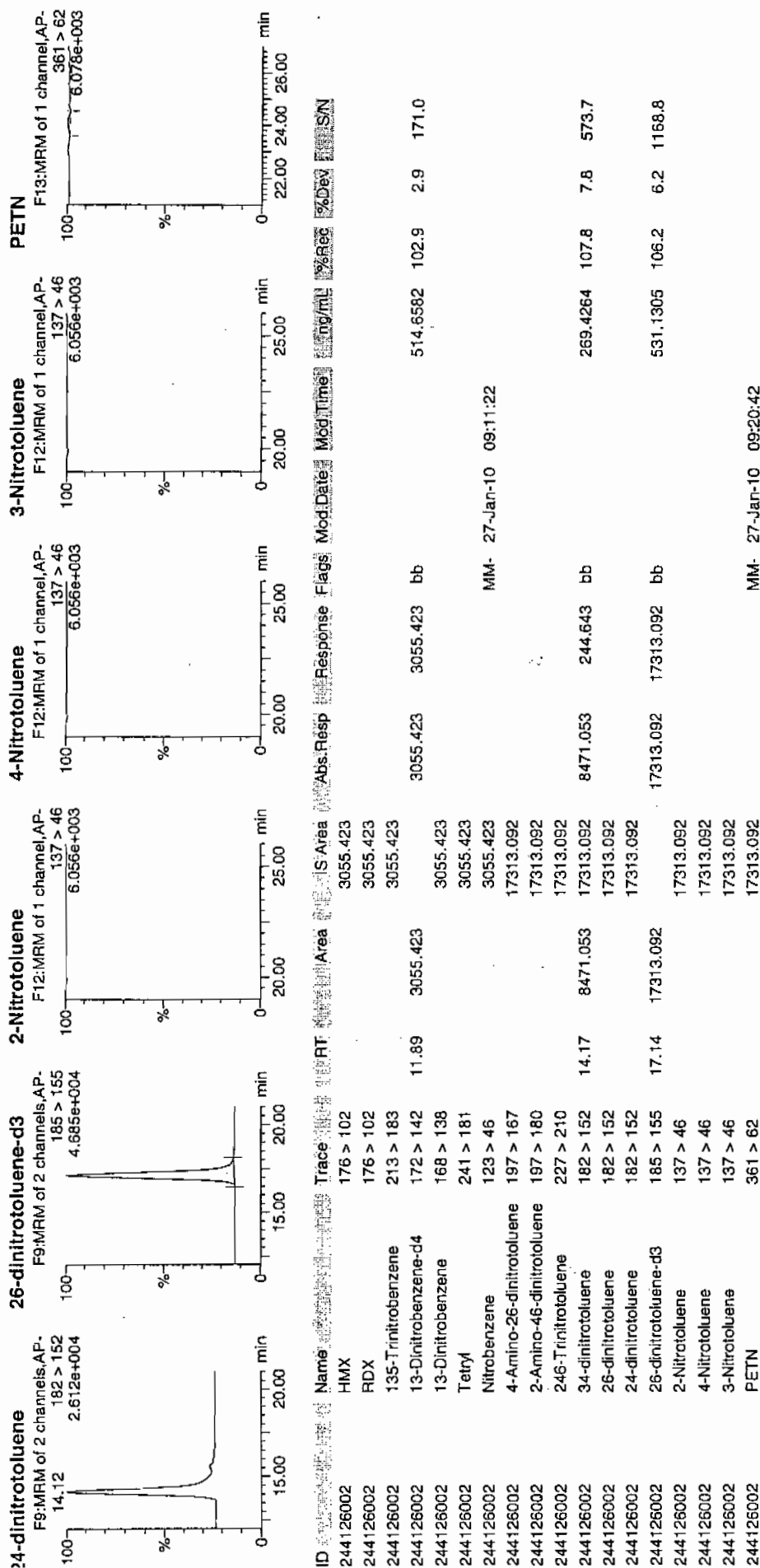
Ratio: 3:1,F

Handwritten: 12/10
 940071 / 8033 / 2 /



Handwritten: 12/10

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7648

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220019.wiff

Date Analyzed: 22-JAN-10 15:08

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

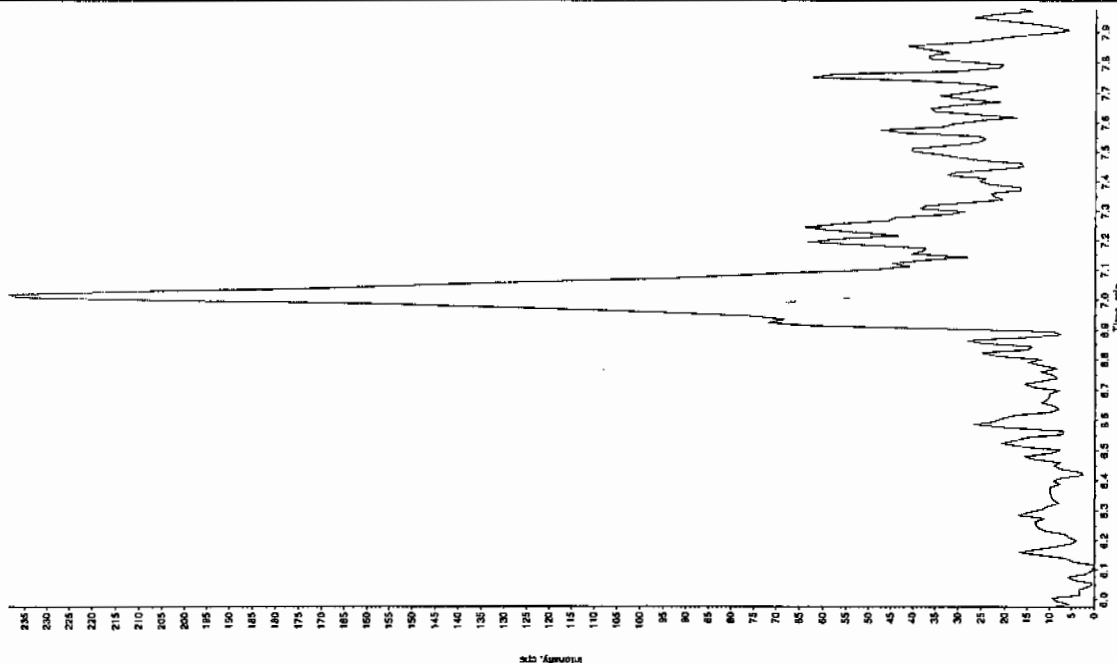
*Concentration =

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

See 105110

Sample Name: "244126002" Sample ID: "94007121" File: "EX501220019.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCX83212S" Annotation: ""

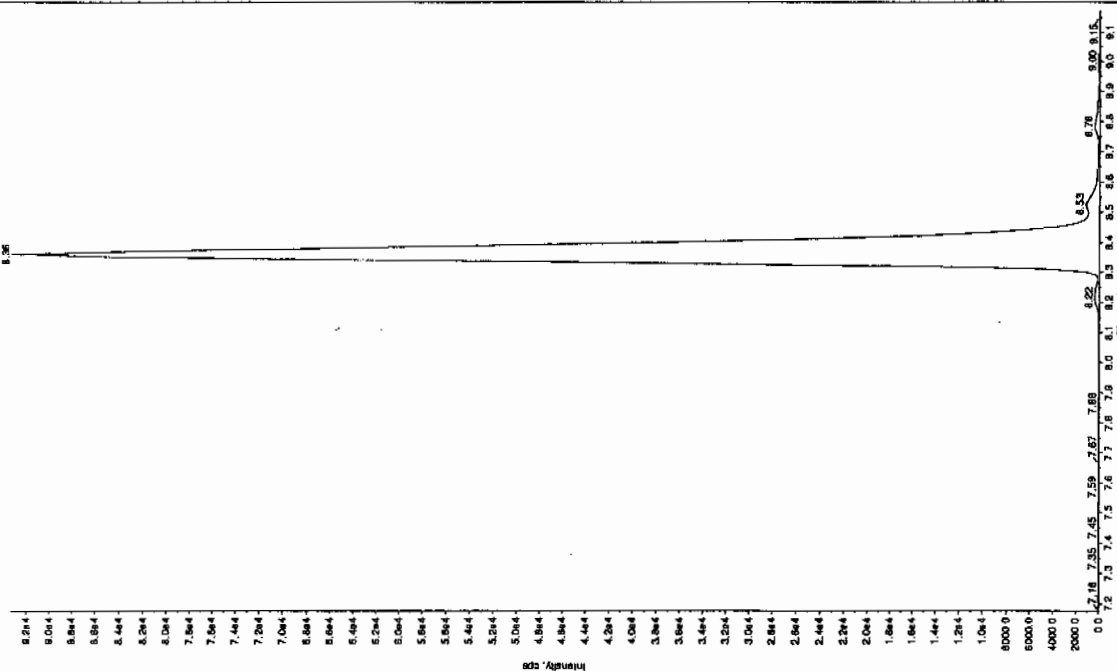
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 3:08:21 PM
 Modified: NC



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

Sample Name: "244126002" Sample ID: "94007121" File: "EX501220019.wif"
 Peak Name: "35-Dihydroaniline" Mass(es): "182.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

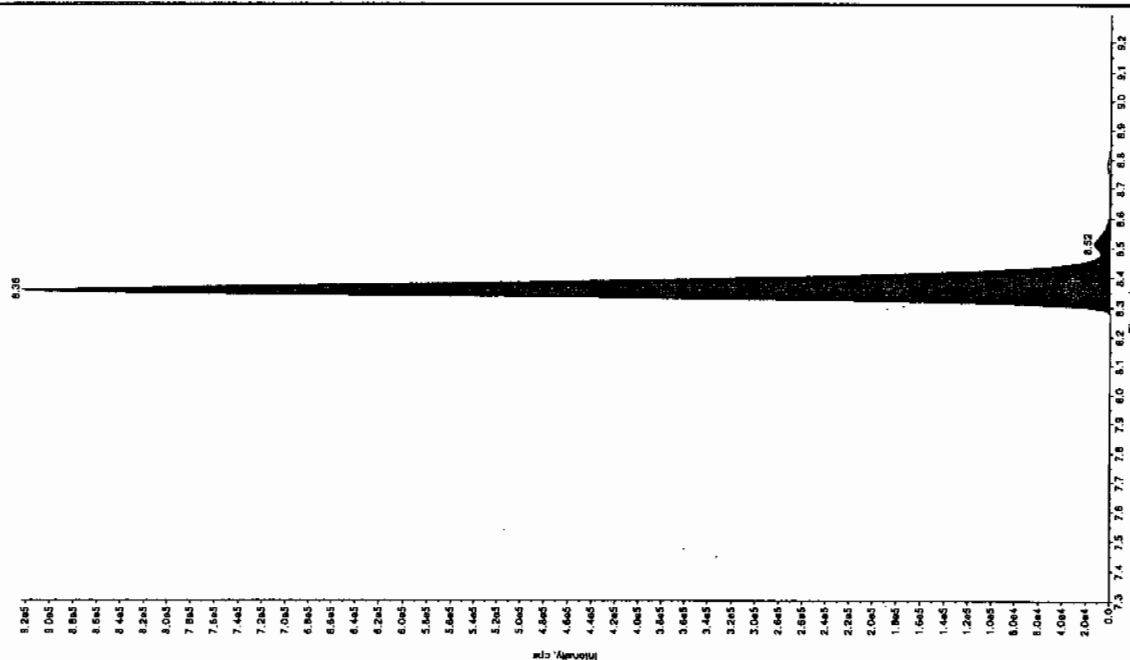
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 3:08:21 PM
 Modified: NC



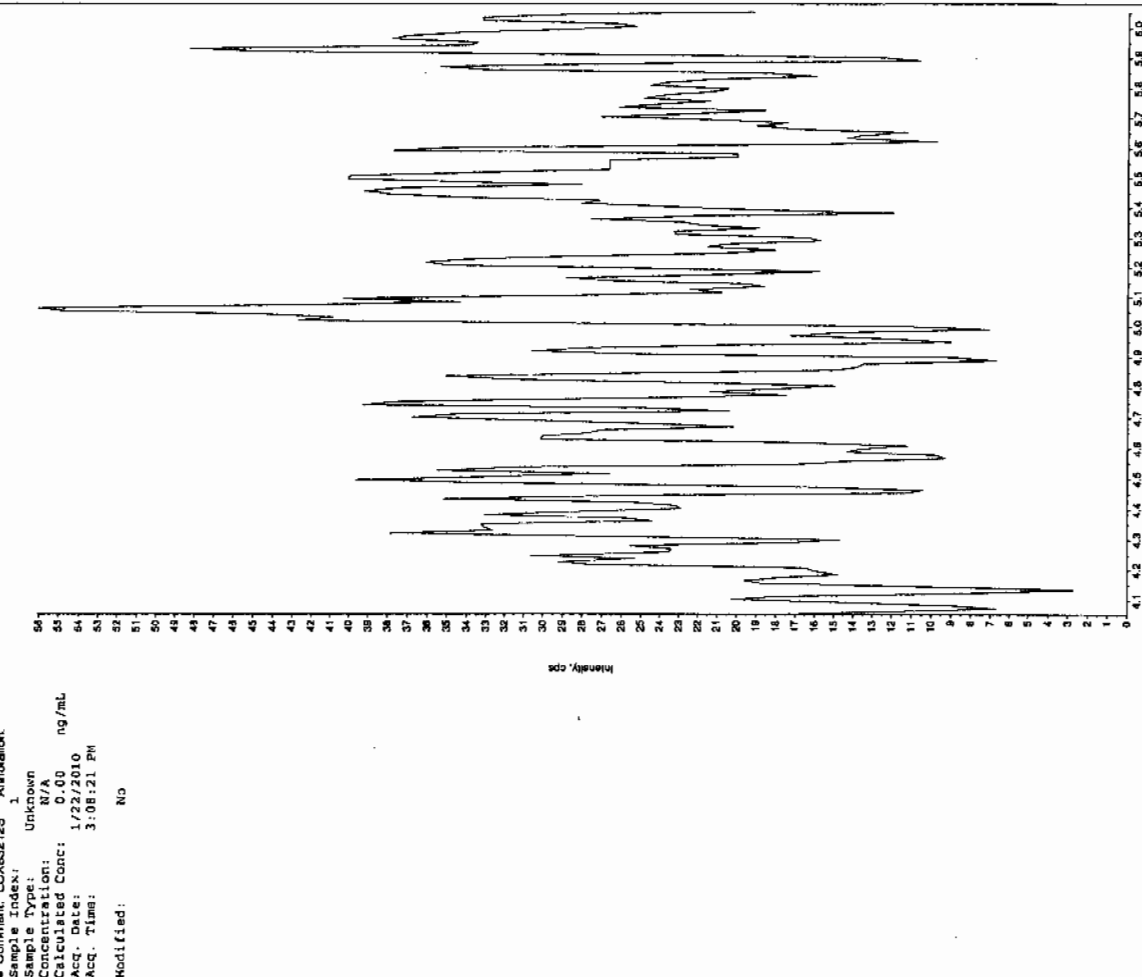
Amu 01/25/10

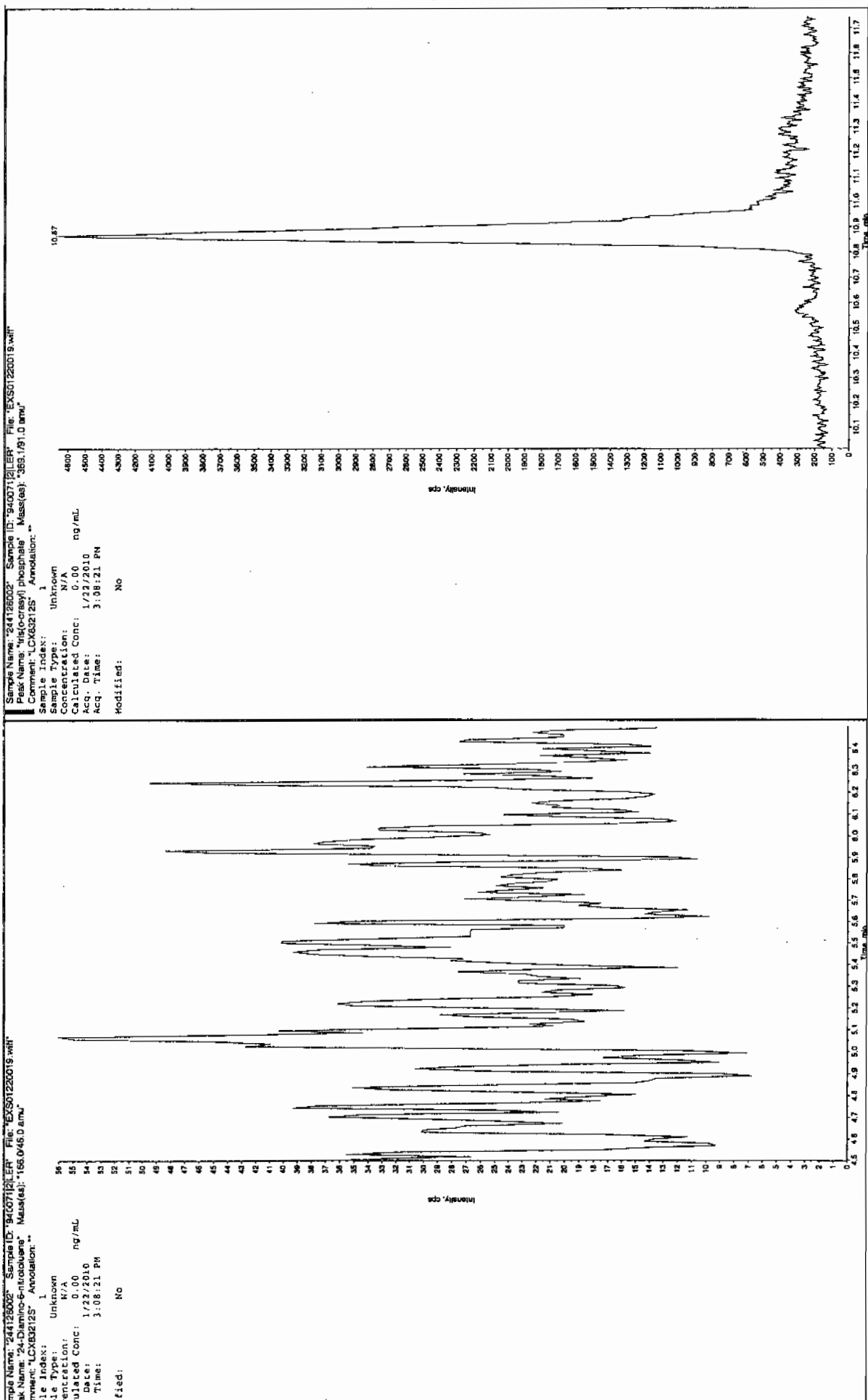
Sample Name: "2412602" Sample ID: "94007121ER" File: "EXS0120019.wkt"
 Mix Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LC83212S" Annotation: ""

File Index:	1	Valley
Sample Type:	Unknown	Valley
Concentration:	N/A	8.38 min
Calculated Conc:	296.	Count:
Date:	1/22/2010	3,716,825
Time:	10:08:21 PM	923025.08
		8.38 min
		8.65 min



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





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: RE12-10-7638

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125043a

Date Analyzed: 26-JAN-10 07:59

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

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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Sample Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0125043a

Date: 26-Jan-2010

Time: 07:59:59

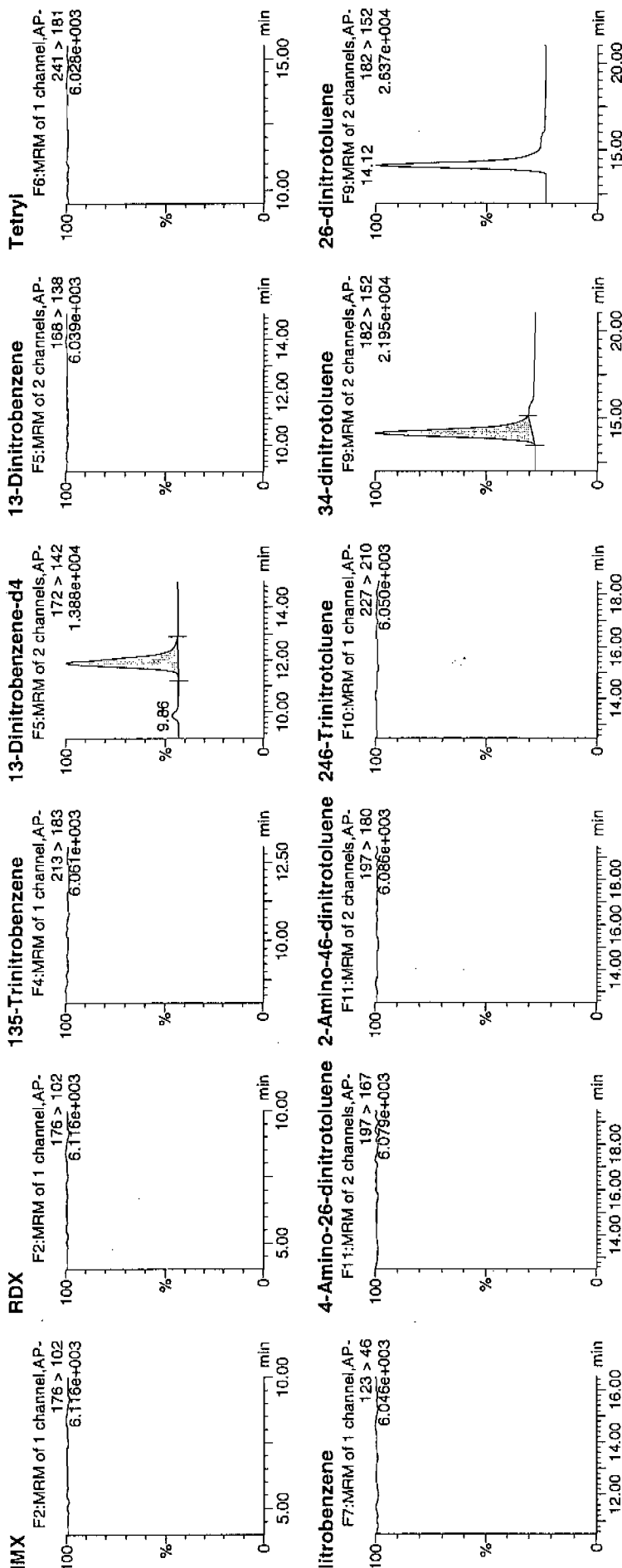
ID: 244126003

File: 3:2,A

1/27/10
1/27/10

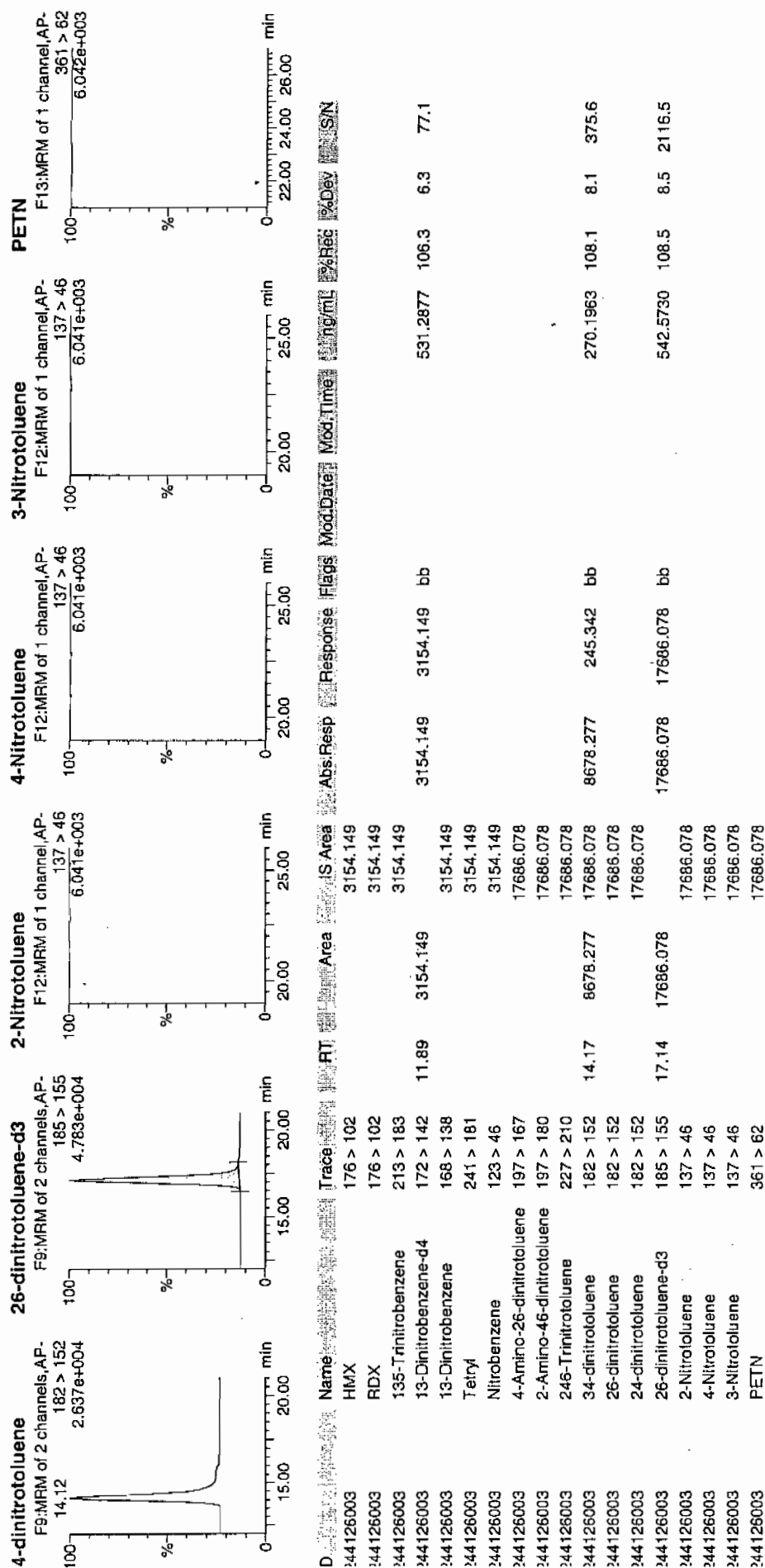
WAV 940071 | 21

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1/27/10

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7638

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220020.wiff

Date Analyzed: 22-JAN-10 15:24

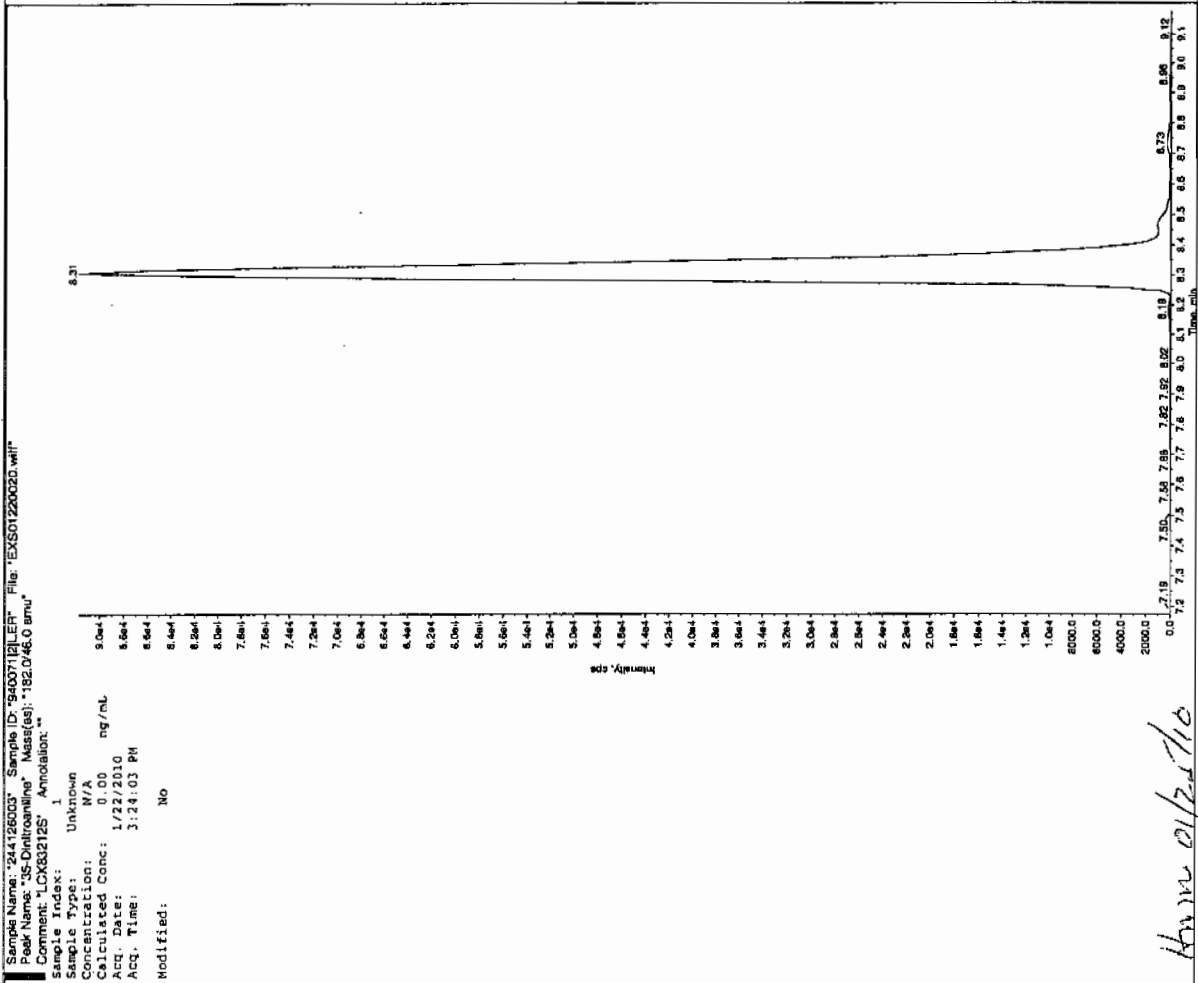
Units: ug/kg

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

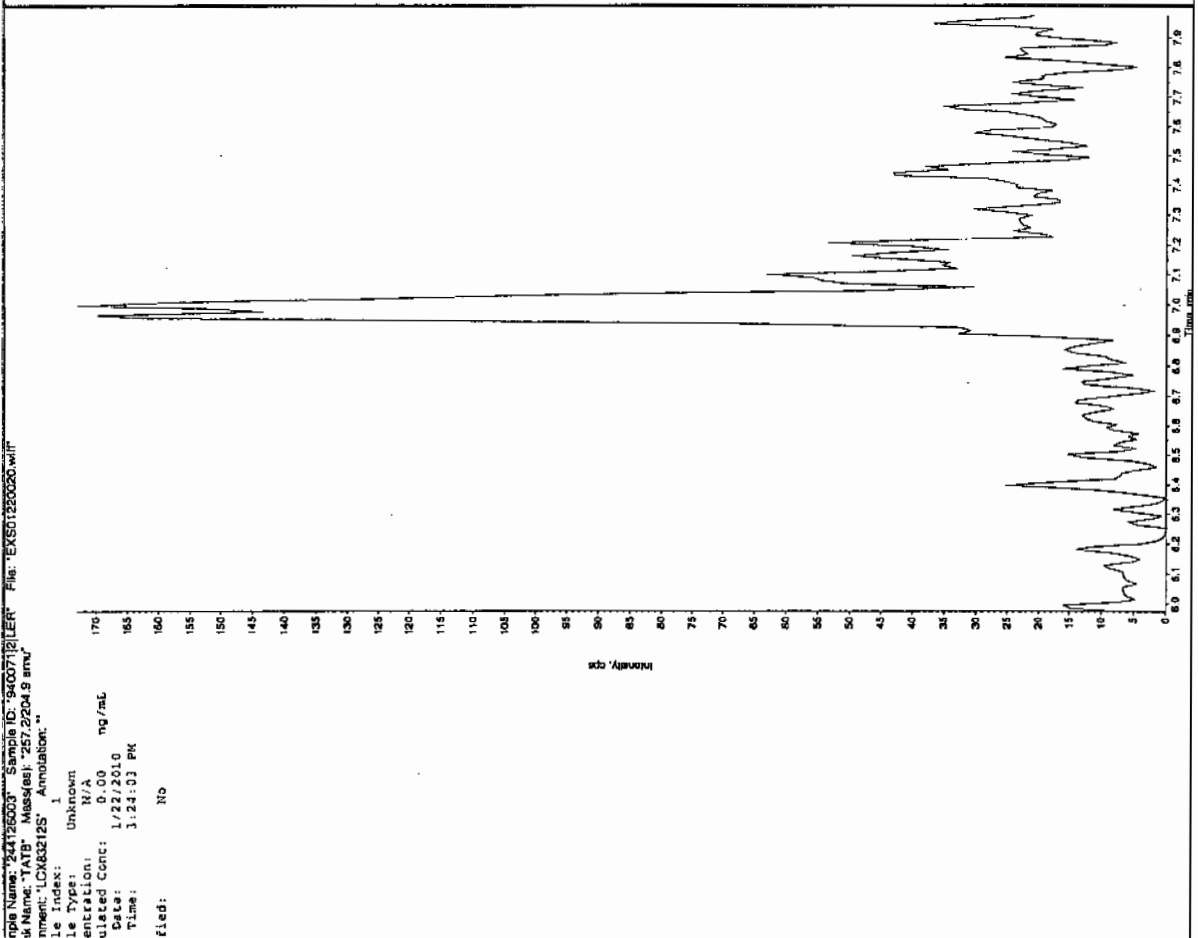
*Concentration =

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

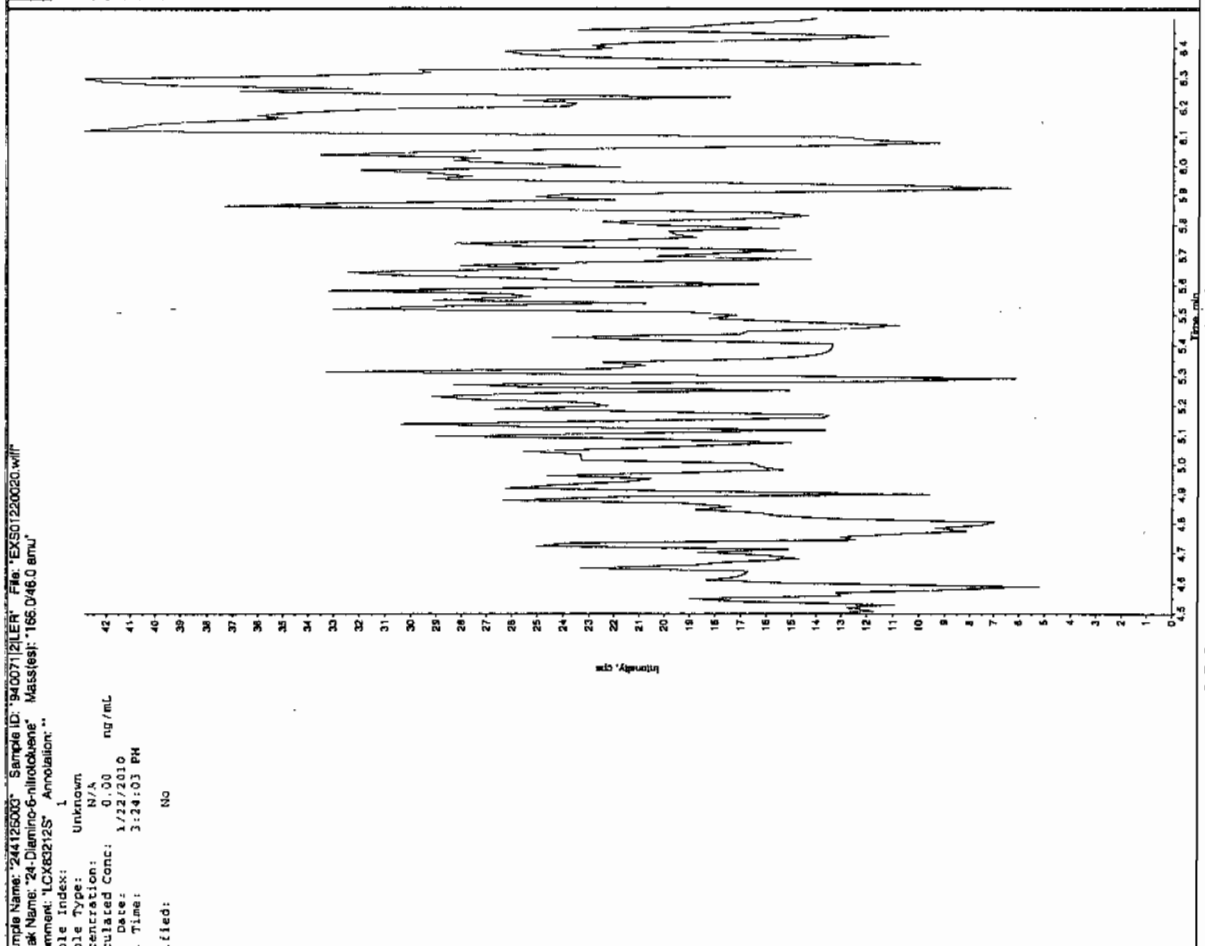
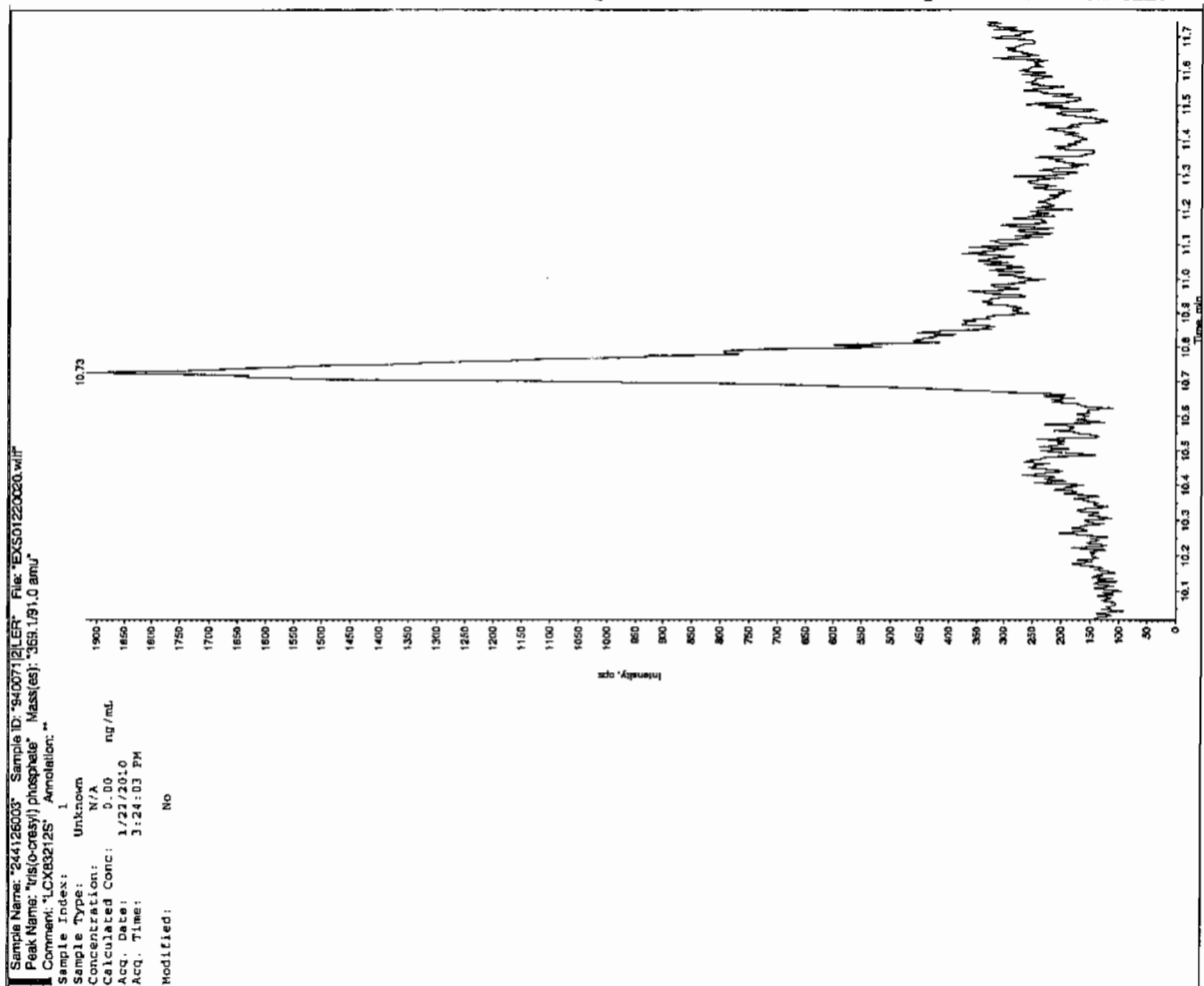
San 1/25/10



San 1/25/10



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



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: RE12-10-7639

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126004

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125044a

Date Analyzed: 26-JAN-10 08:29

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

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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Sample: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0125044a

Date: 26-Jan-2010

Time: 08:29:29

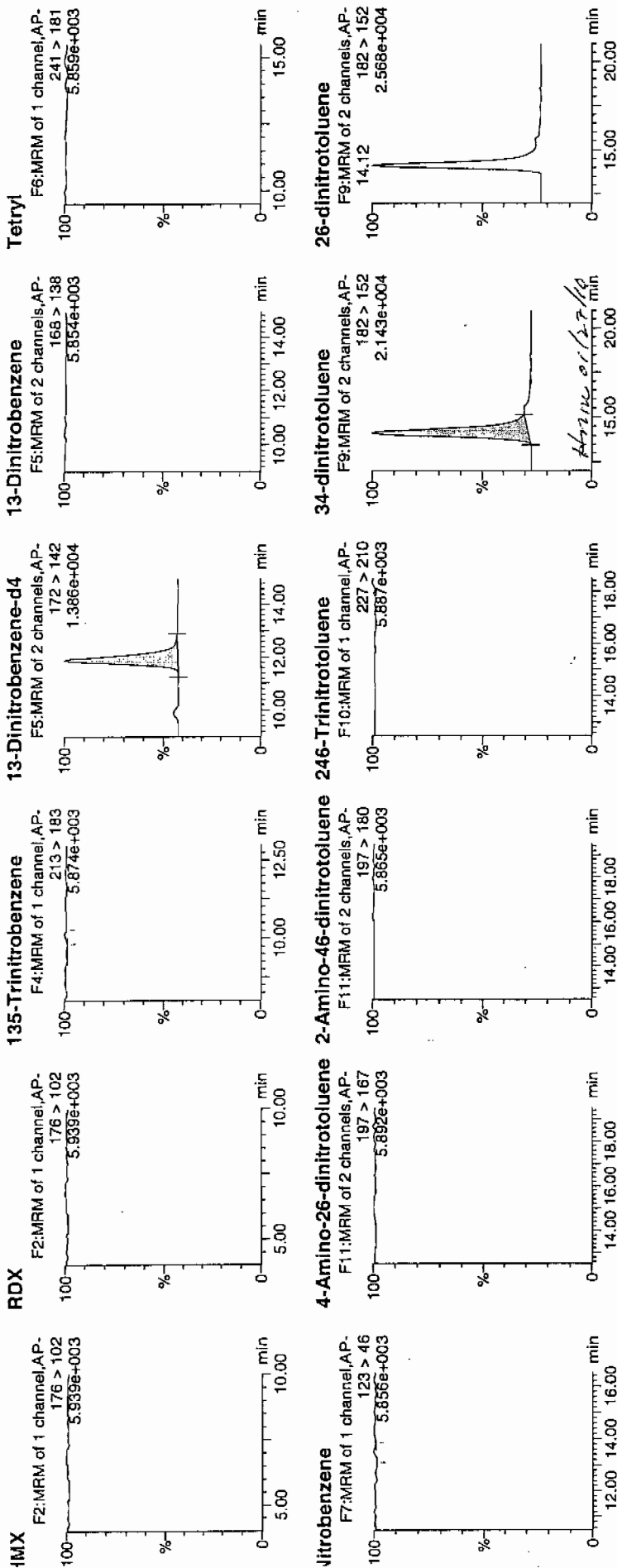
ID: 244126004

Ratio: 3:2,B

100%
1/27/10

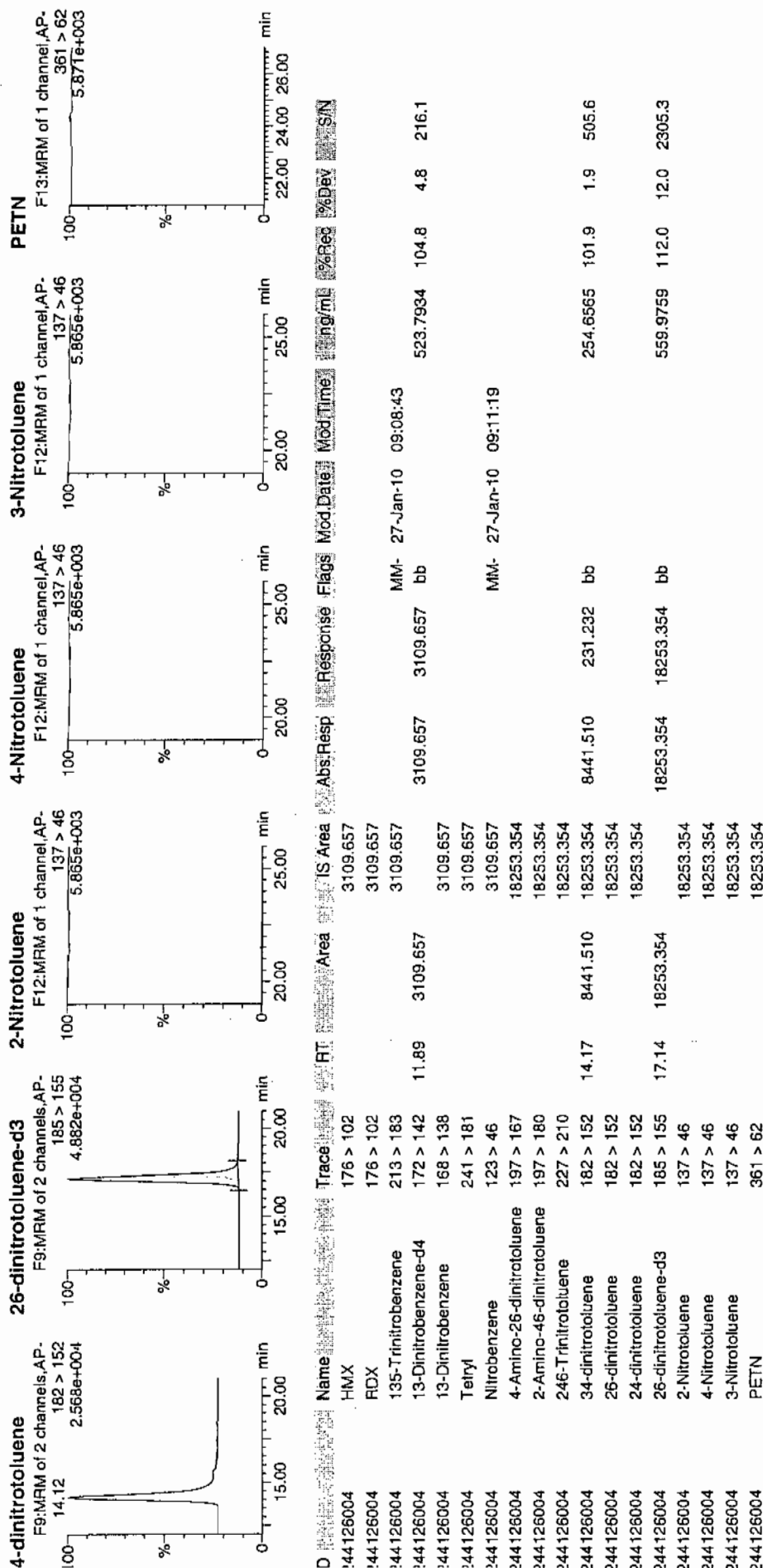
Wave 940071 | Source 2

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

atset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7639

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220021.wiff

Date Analyzed: 22-JAN-10 15:39

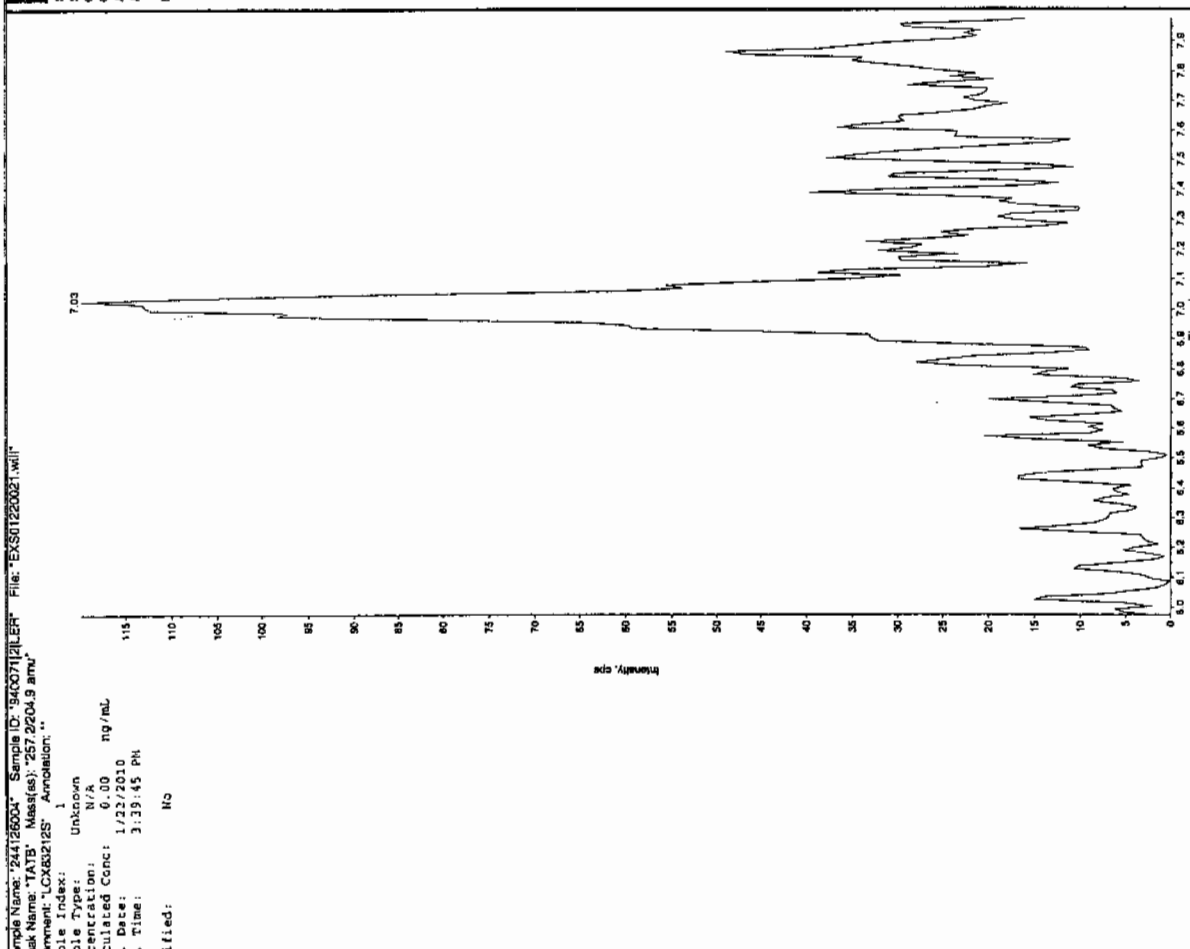
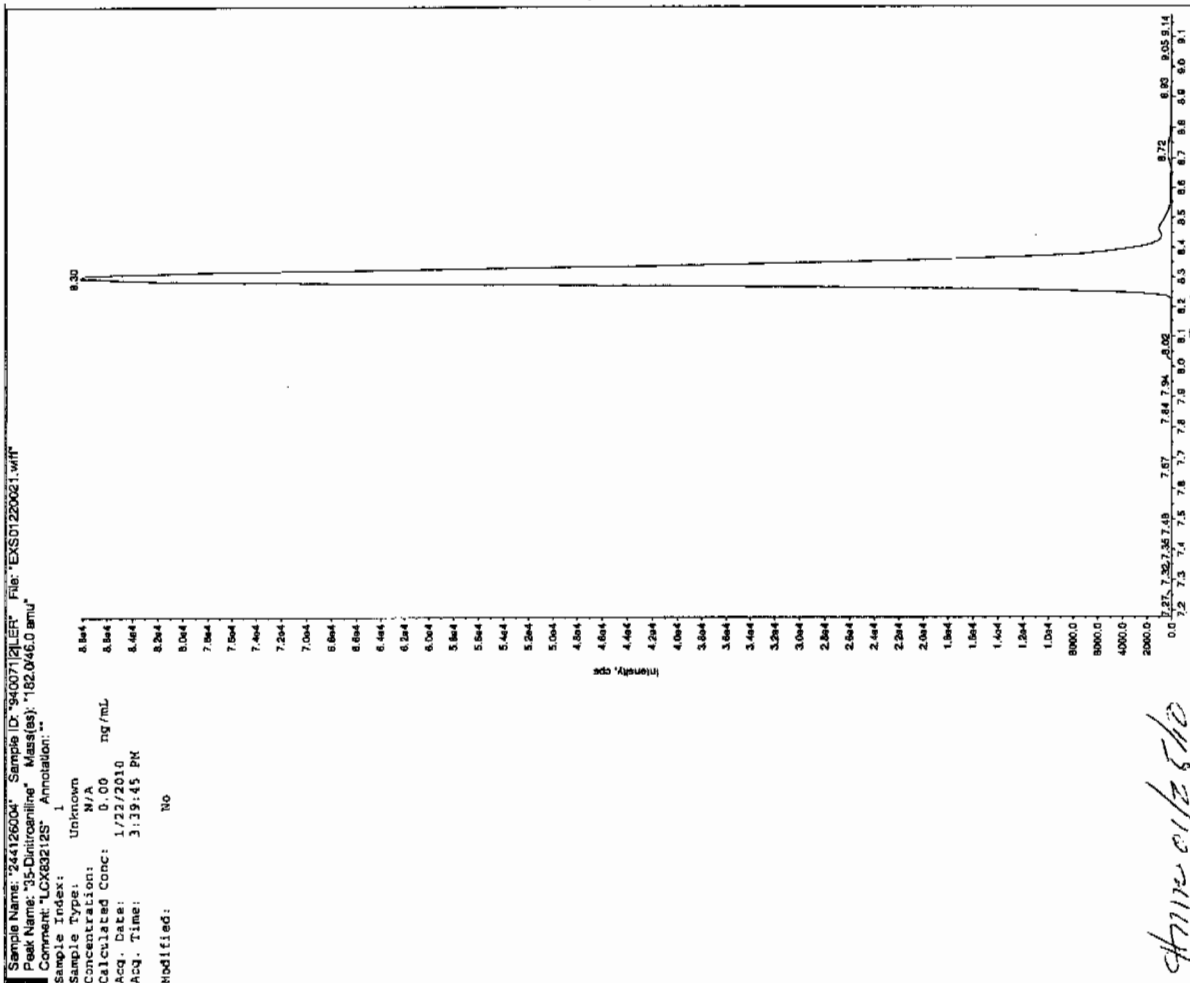
Units: ug/kg

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 =

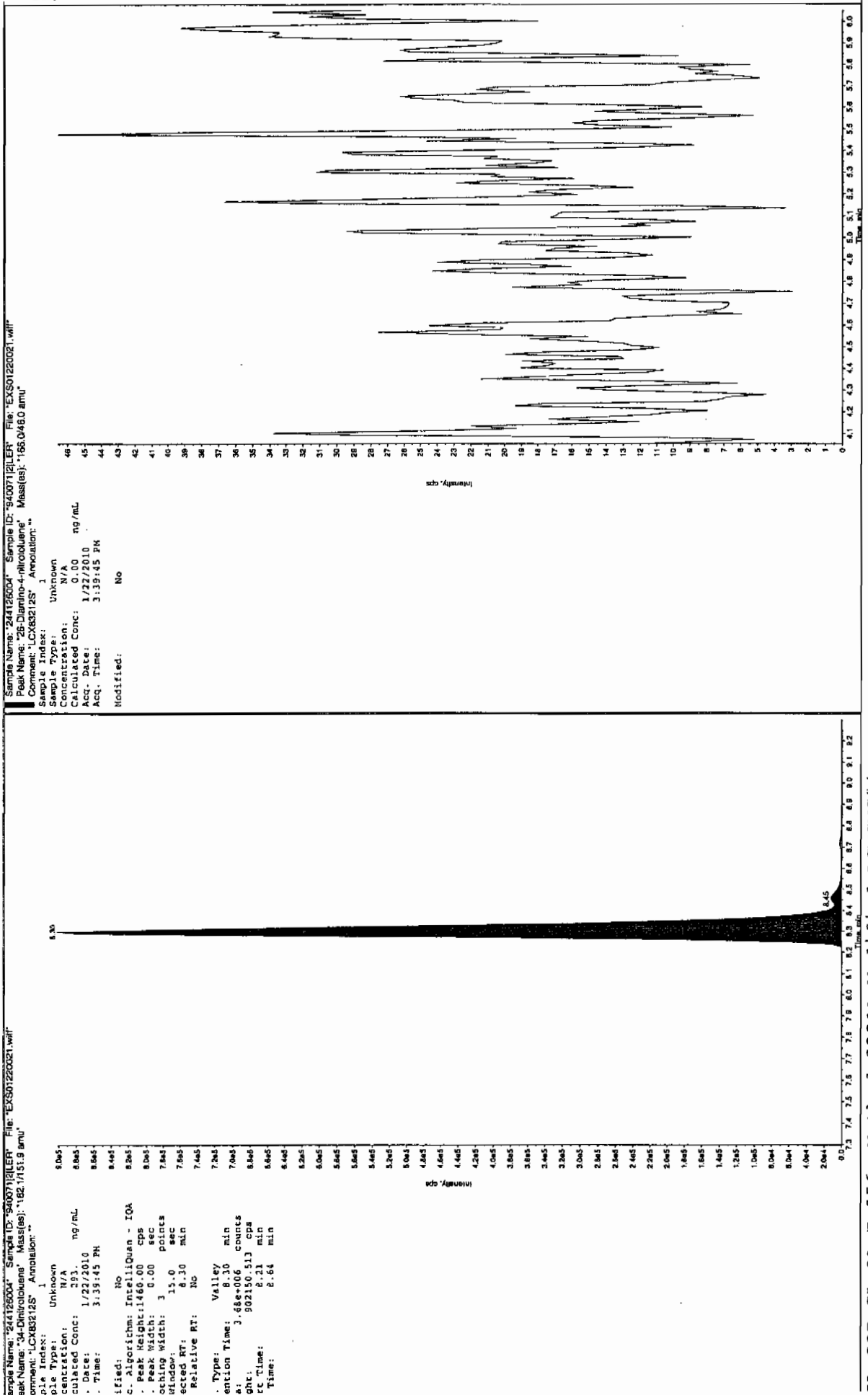
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

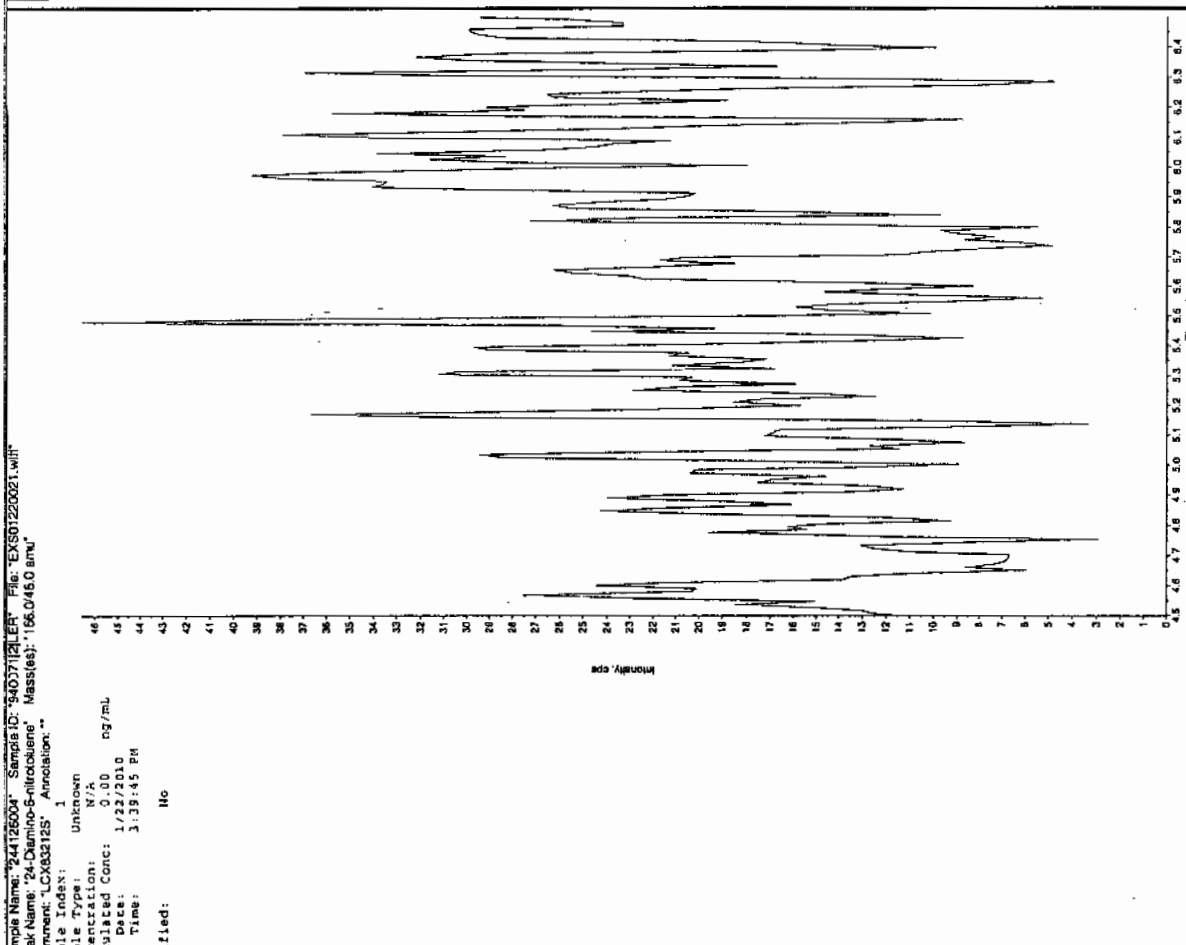
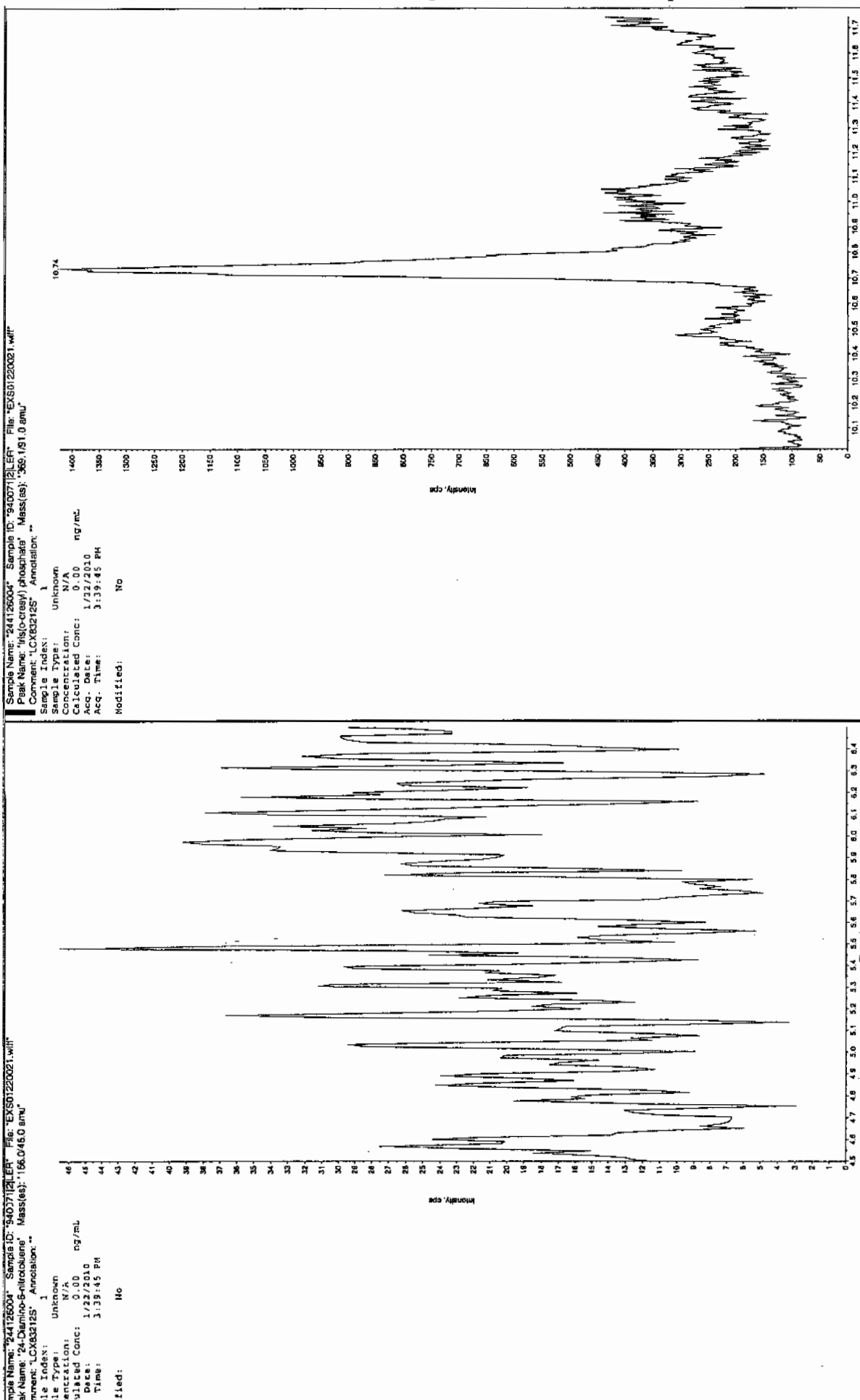
See 11/25/10



4/11/10 01/25/10

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





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: RE12-10-7633

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125045a

Date Analyzed: 26-JAN-10 08:58

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125045a

Plate: 26-Jan-2010

Time: 08:58:58

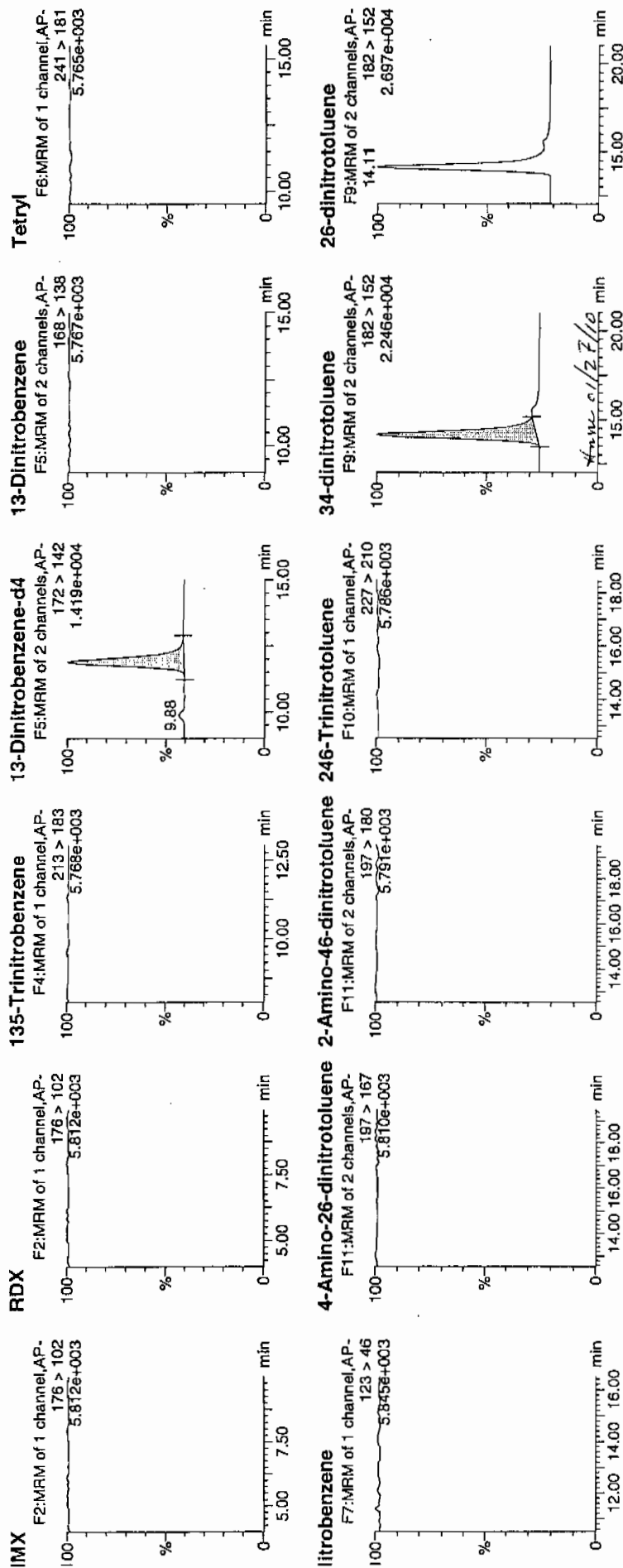
ID: 244126005

File: 3:2,C

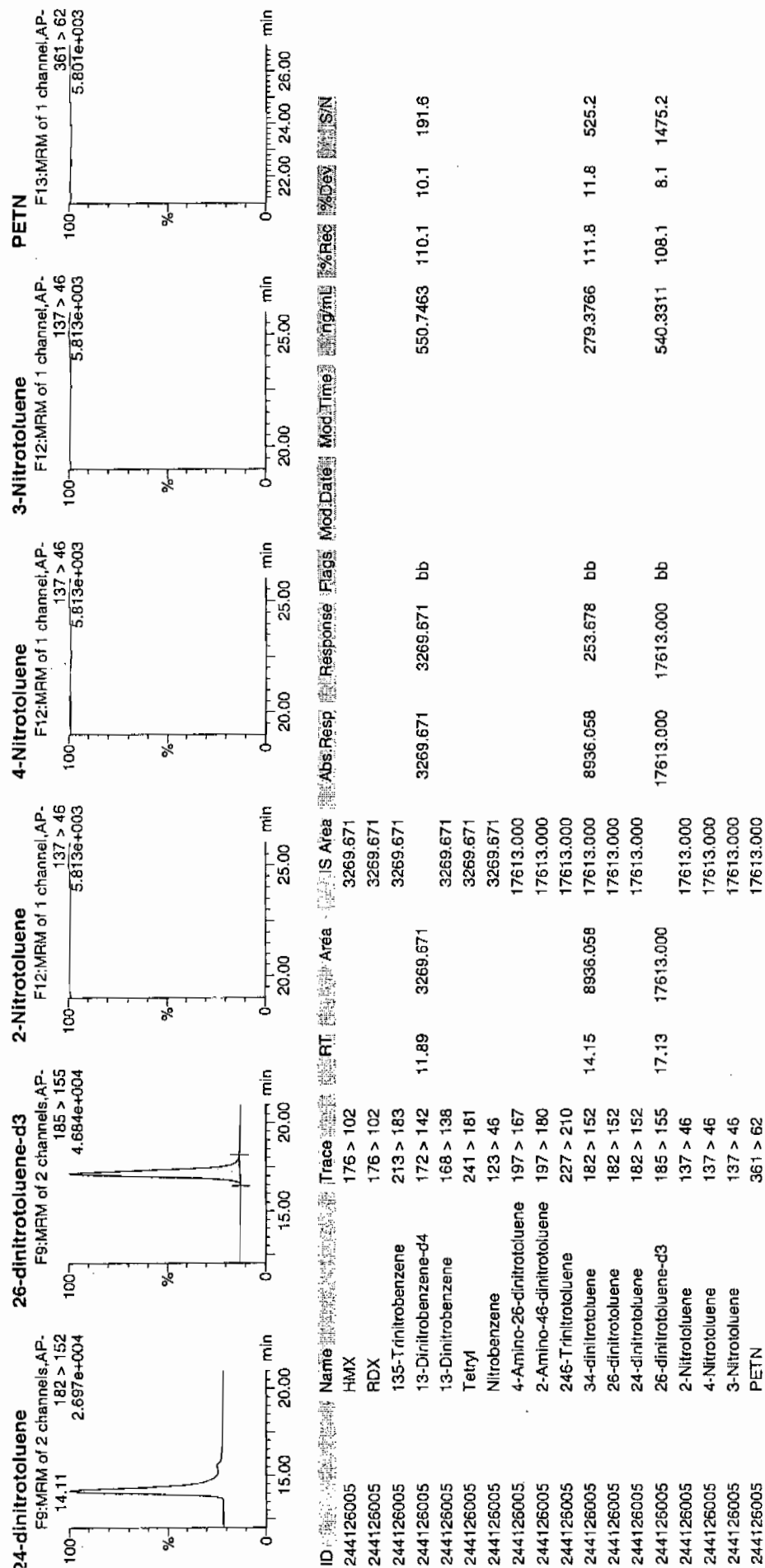
12/21/10

LAU 940071 / 8000 / 2 /

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Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7633

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220022.wiff

Date Analyzed: 22-JAN-10 15:55

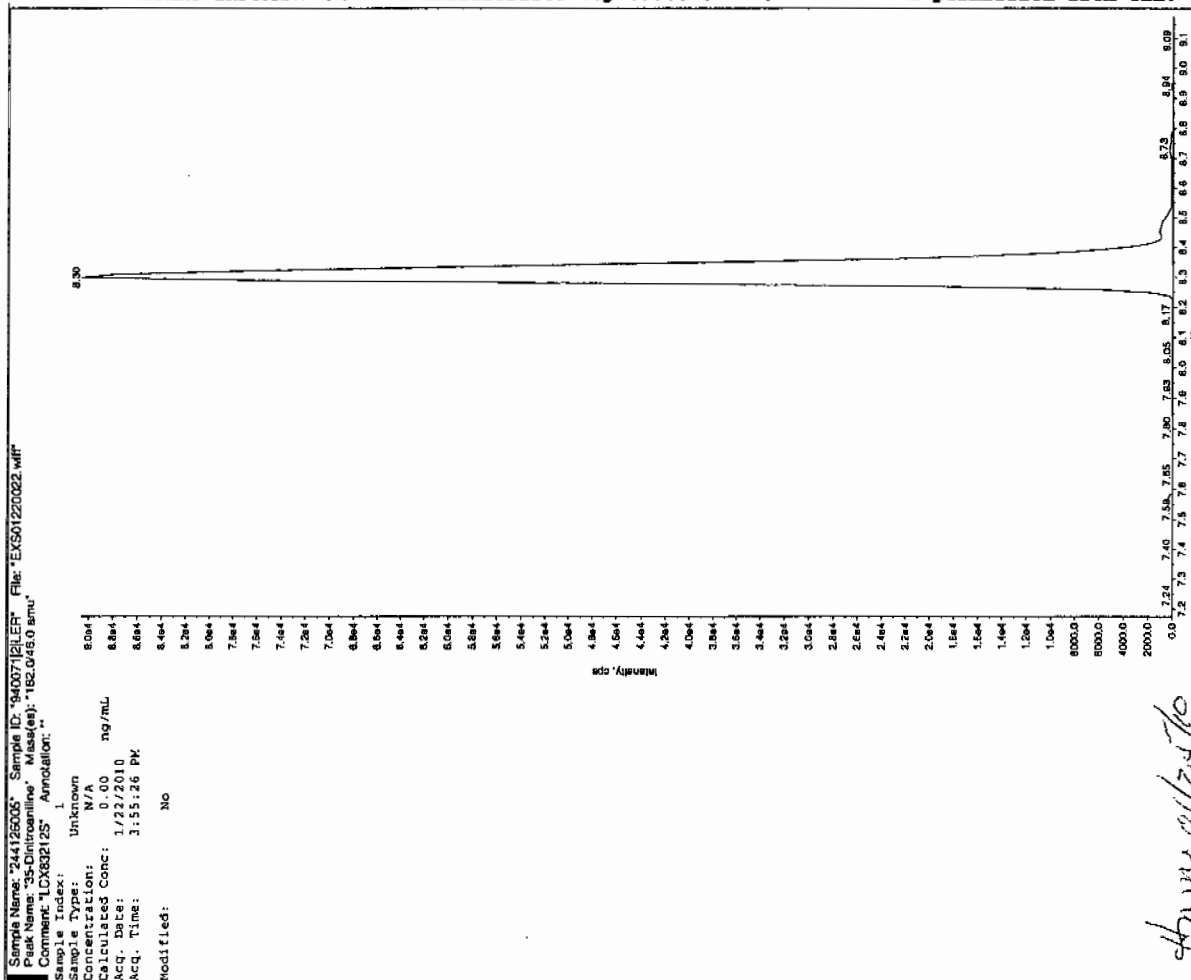
Units: ug/kg

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

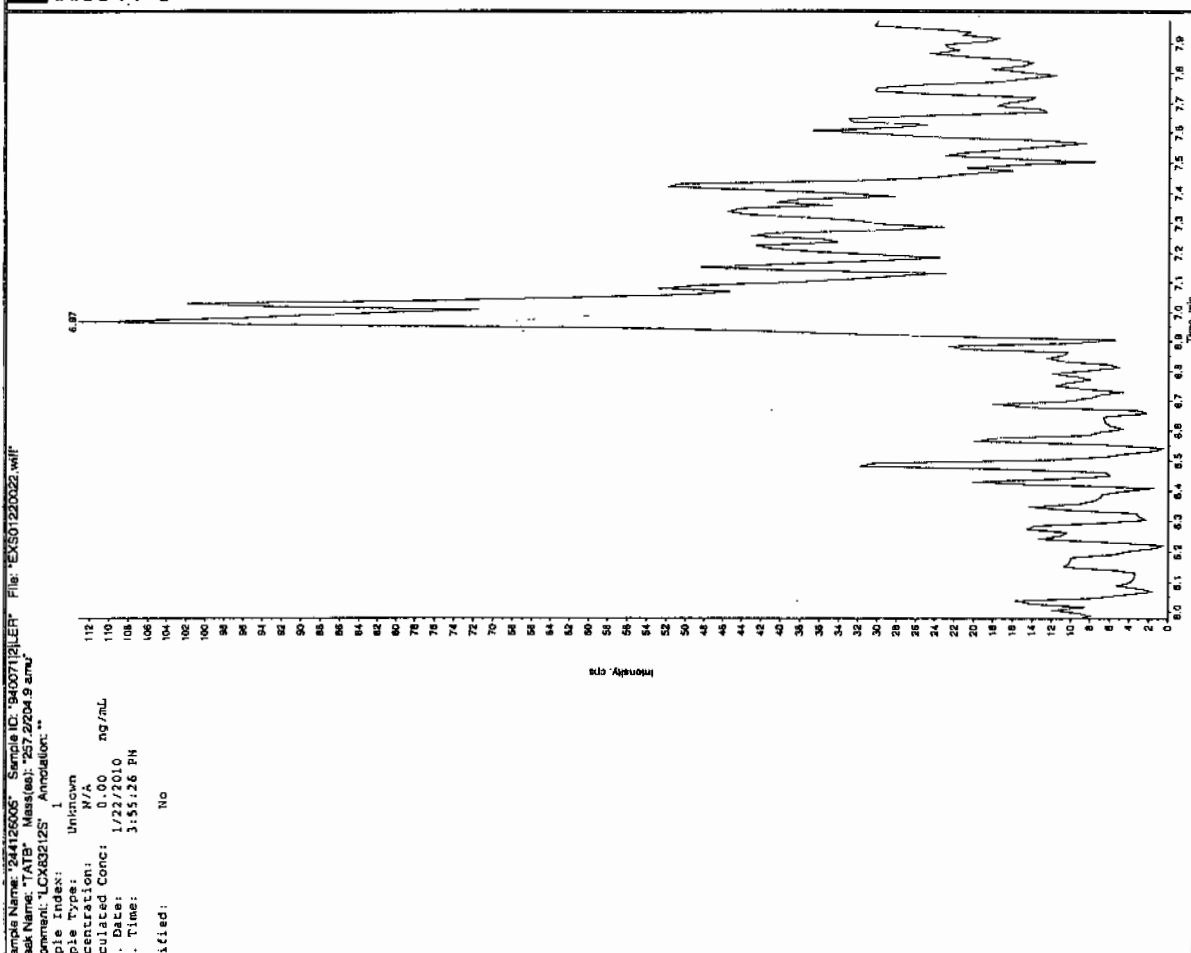
*Concentration =

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

Run 1/25/10



Run 01/25/10



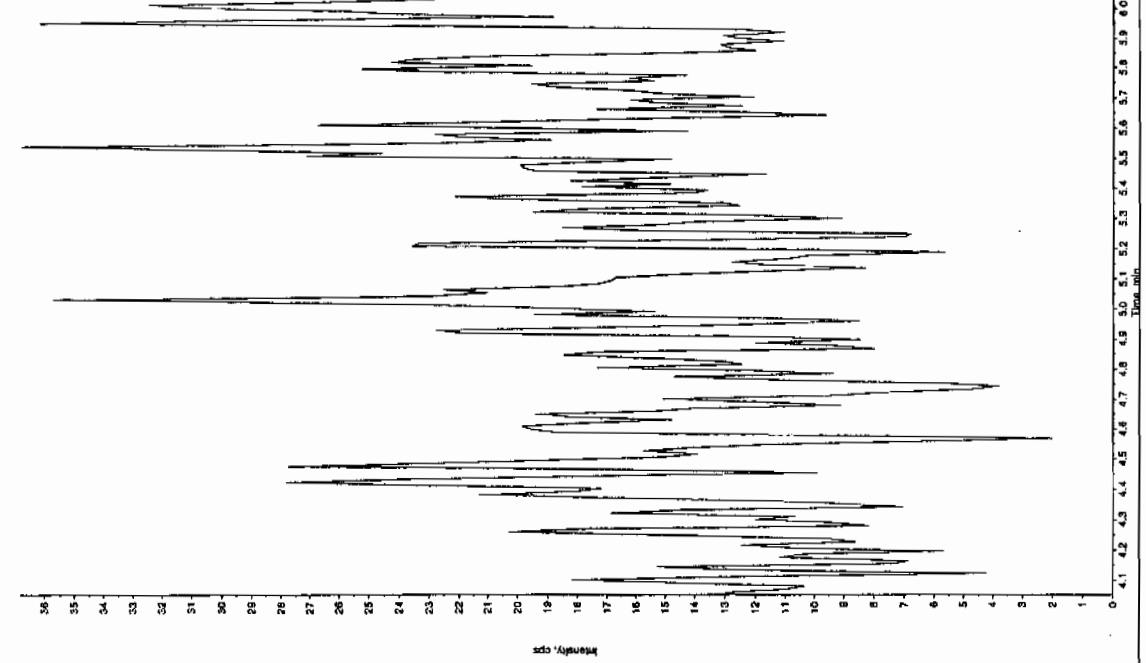
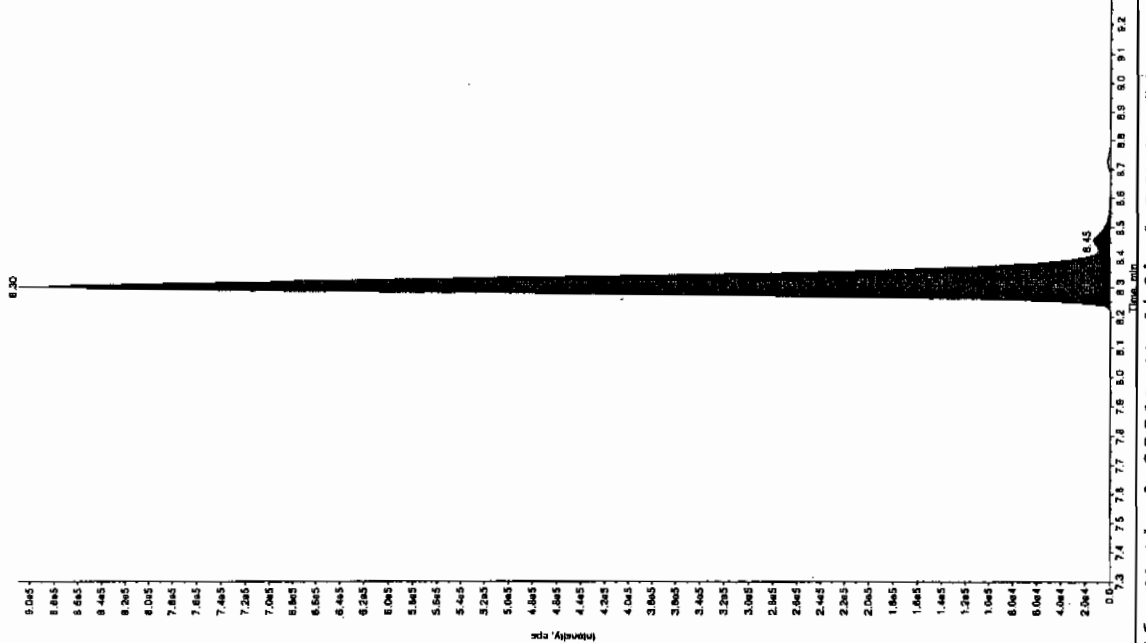
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "244126005" Sample ID: "94007121ER" File: "EX501220022.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/22/2010
 Acq. Time: 3:55:26 PM
 Modified: No

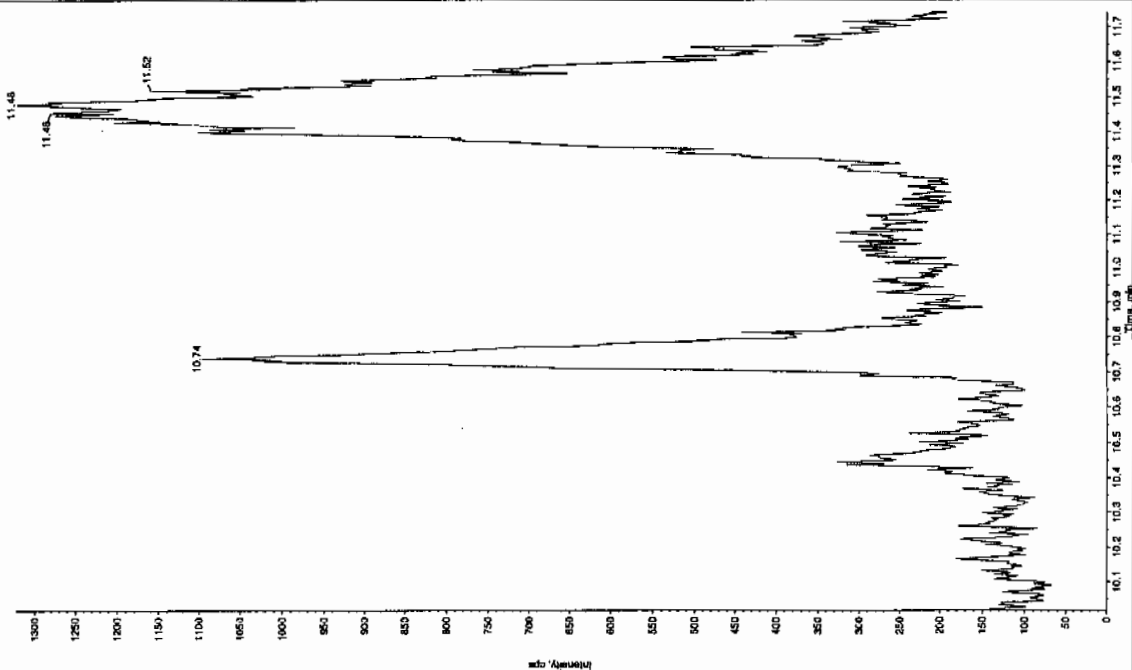
Sample Name: "244126005" Sample ID: "94007121ER" File: "EX501220022.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 374.00
 Acq. Date: 1/22/2010
 Acq. Time: 3:55:26 PM
 Modified: No
 Algorithm: InCellQuan - IOA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Window: 15.0 points
 Window: 15.0 sec
 Relative RT: 8.30 min
 Type: Valley
 Retention Time: 8.30 min
 Counts: 3.69e+006
 HT: 908822.937 cps
 Time: 8.14 min
 Time: 8.61 min



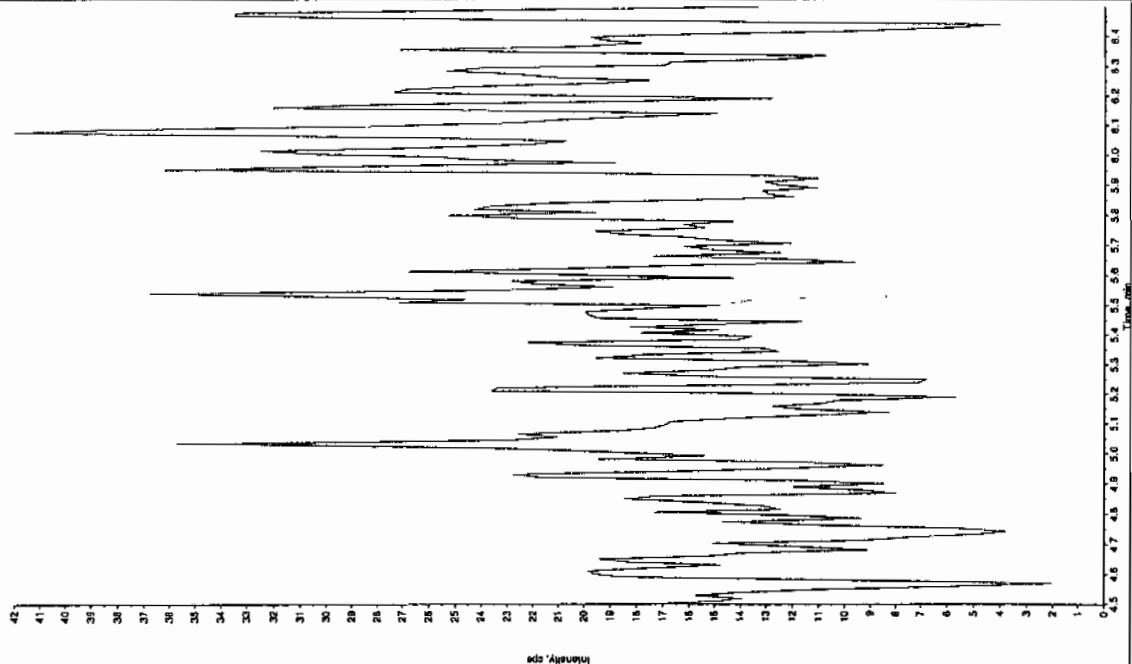
Sample Name: "244126005" Sample ID: "54007121ER" File: "EX501220022.wif"
 Peak Name: "1,3-bis(4-cresyl) phosphazene" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 10.0 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 3:55:26 PM
 Modified: NO



Sample Name: "244126005" Sample ID: "54007121ER" File: "EX501220022.wif"
 Peak Name: "2,4-Dinitro-6-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 10.0 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 3:55:26 PM
 Modified: NO



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7647

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125046a

Date Analyzed: 26-JAN-10 09:28

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

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

GEEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

name: C:\MASSLYN\NEW_EXP.PRO\Data\EXP0125046a

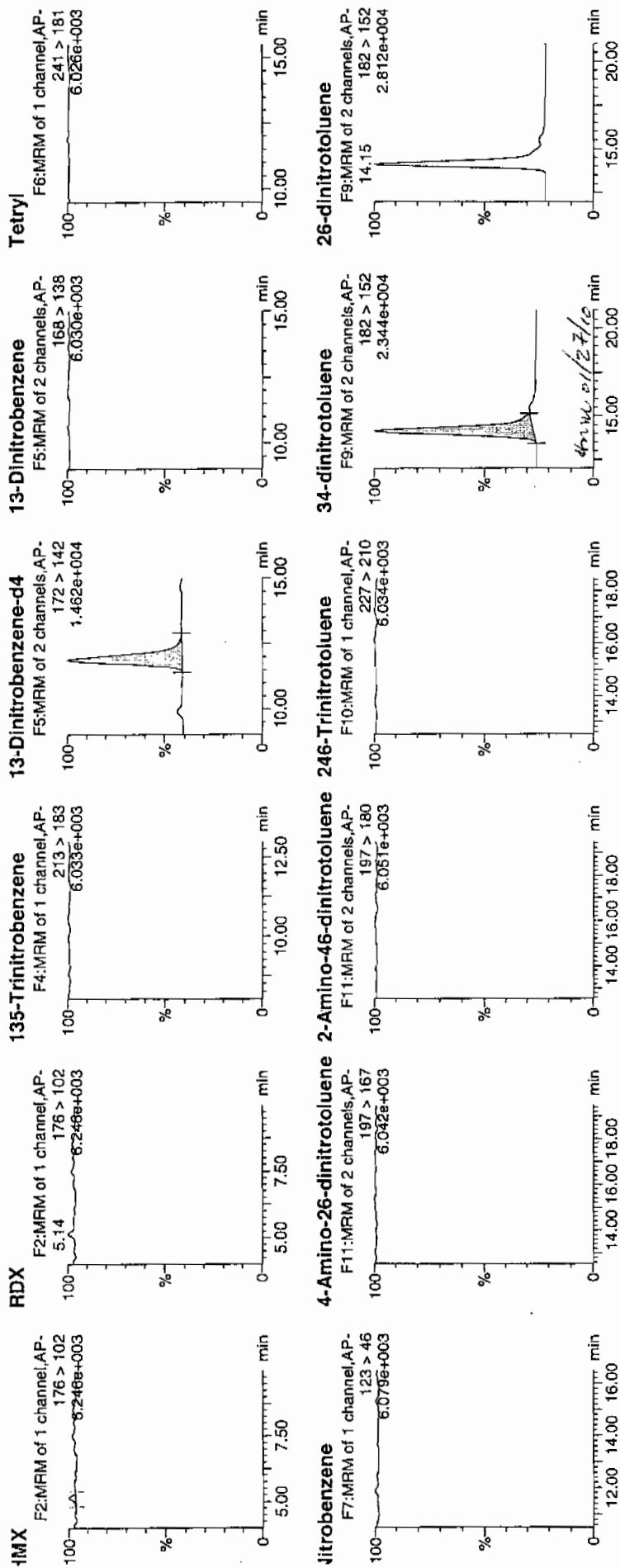
Date: 26-Jan-2010

Time: 09:28:29

D: 244126006

trial: 3:2,D

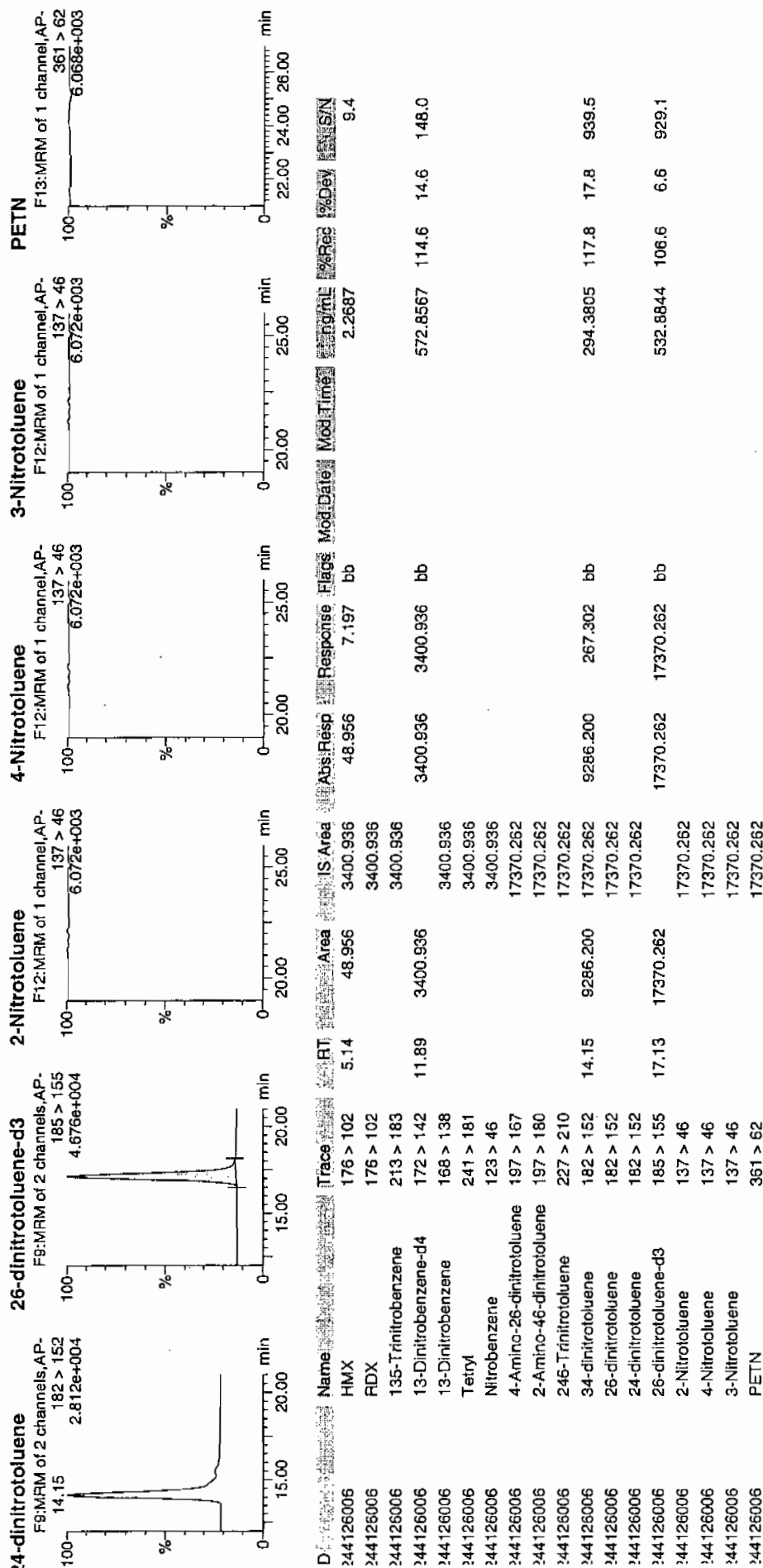
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LYNXINNEW_EXP.PROJ>Data\EXP0125046a



Printed: Wed Jan 27 09:26:20 2010, Page 20 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7647

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220023.wiff

Date Analyzed: 22-JAN-10 16:11

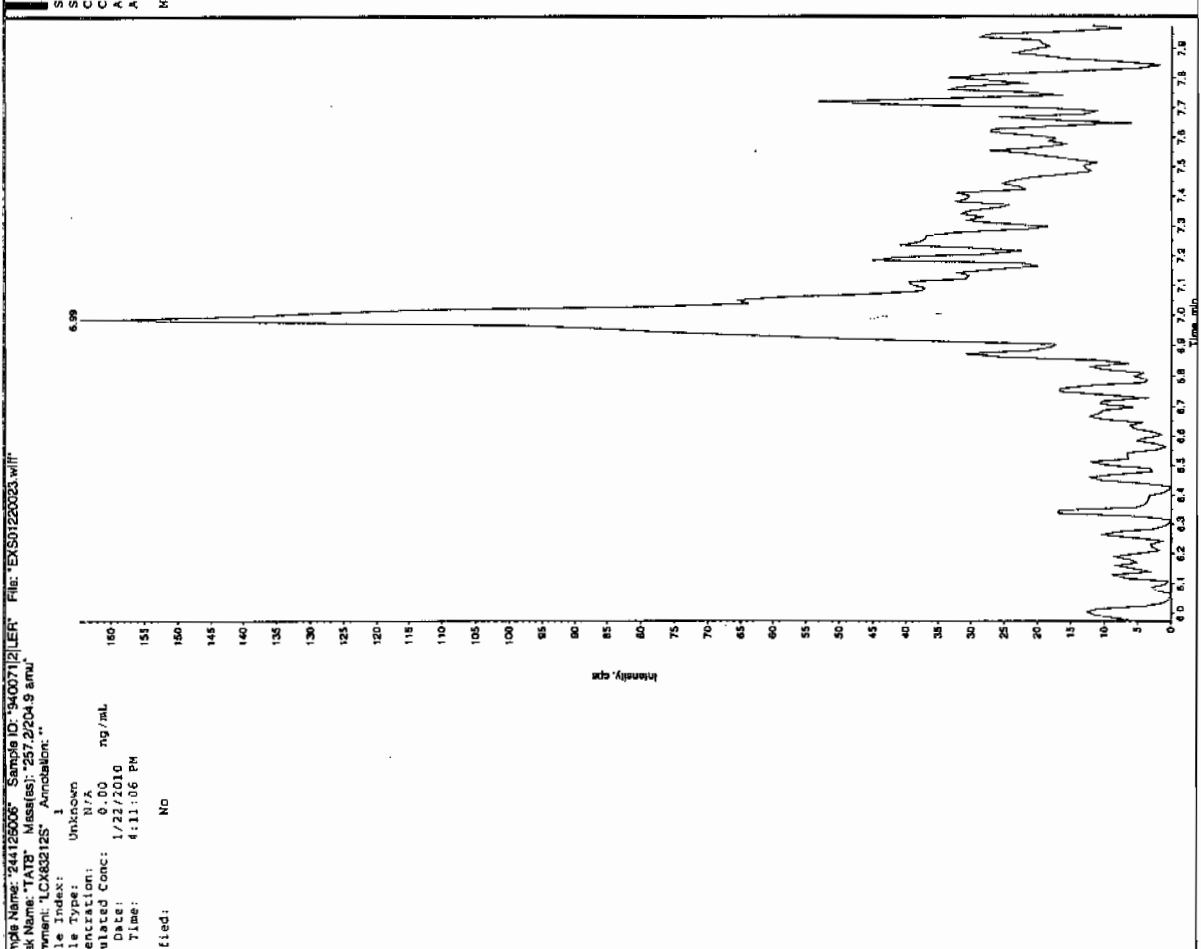
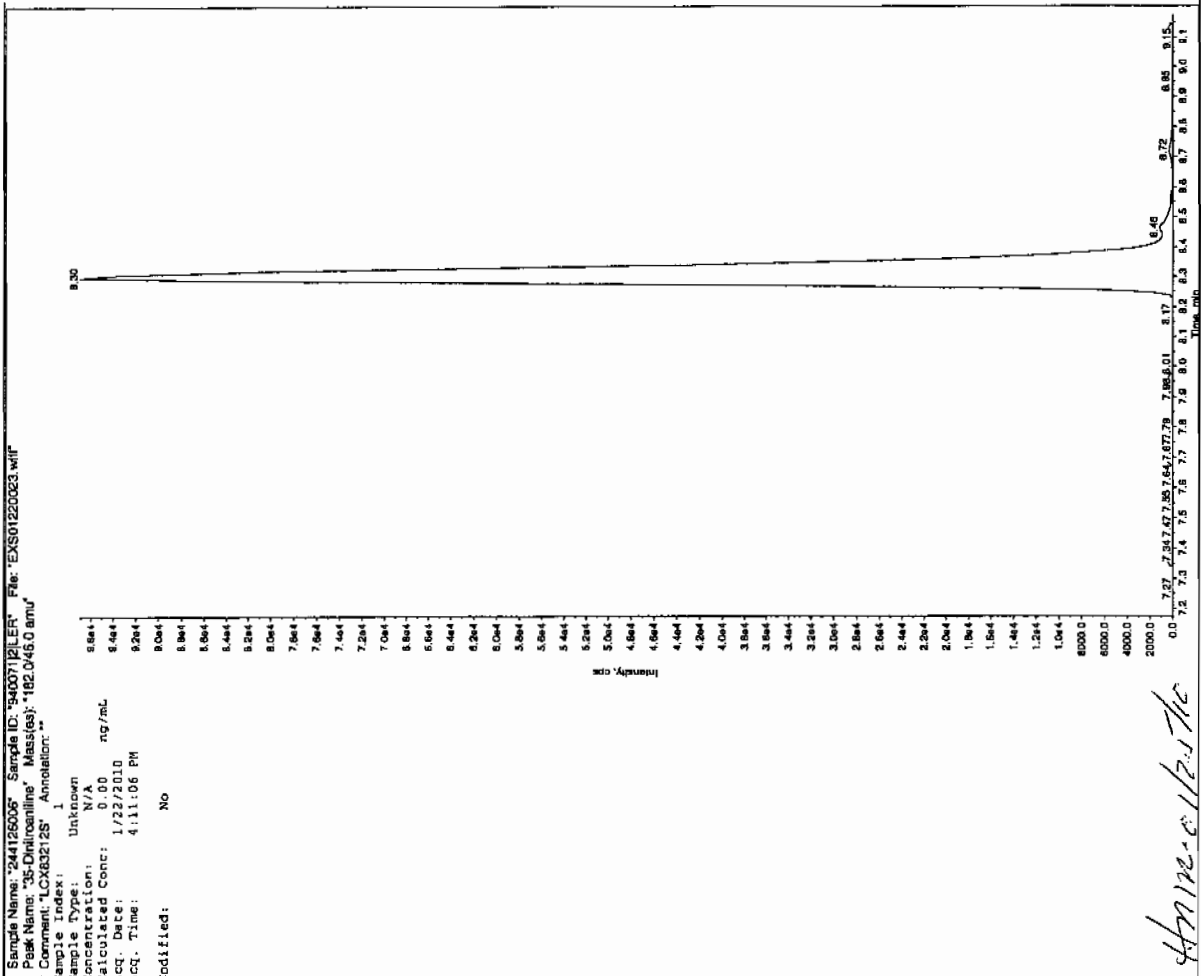
Units: ug/kg

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

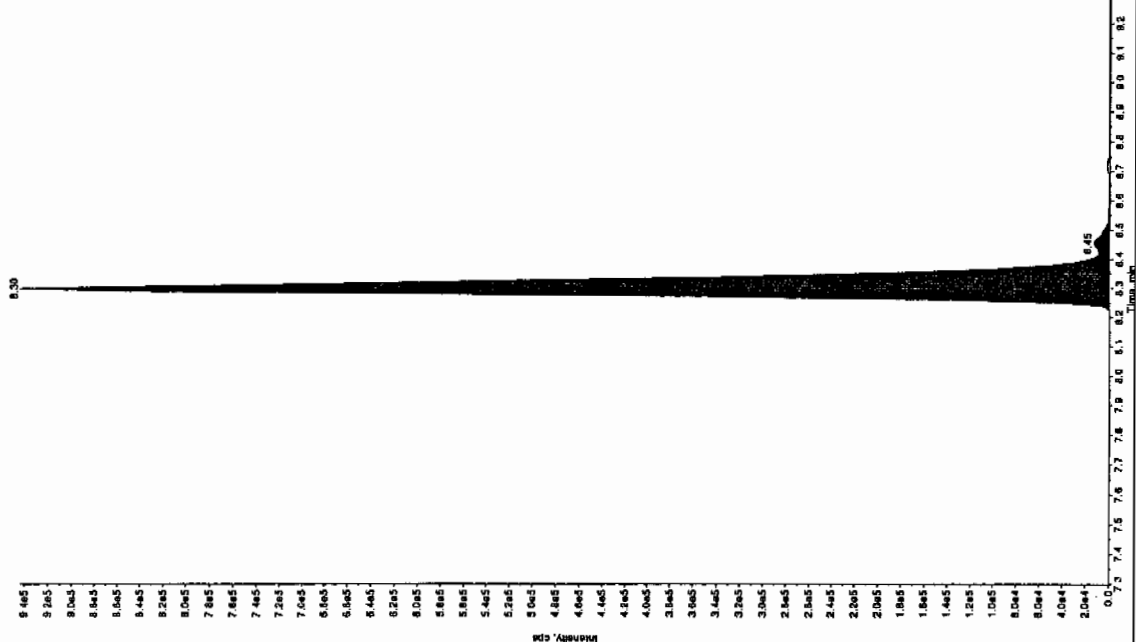
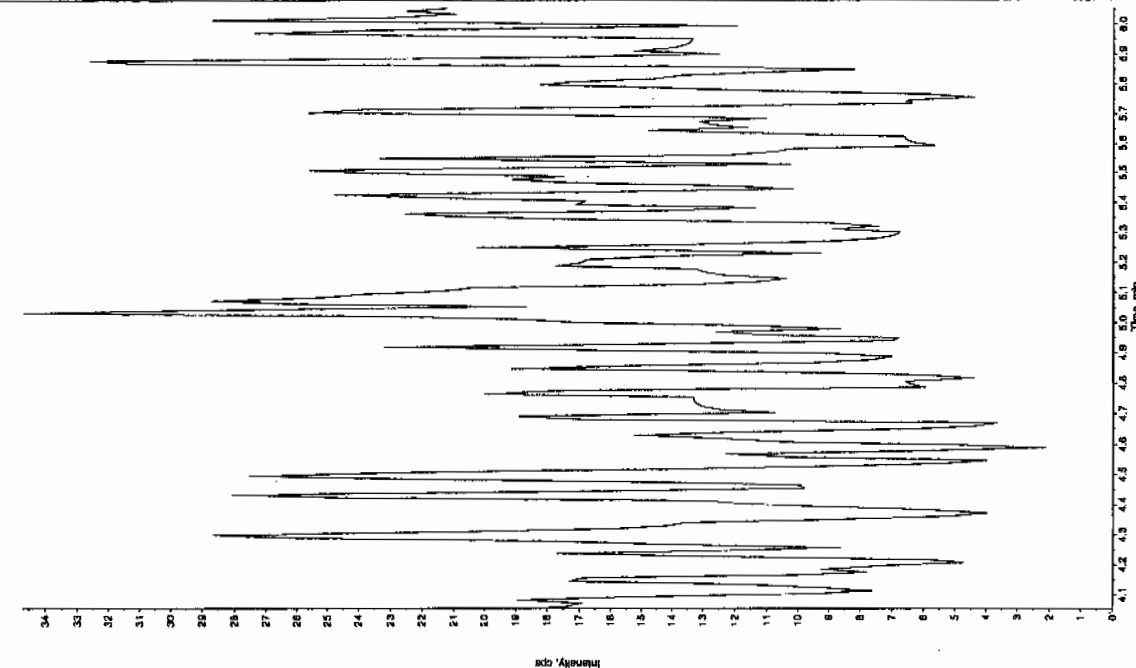
Ken 112510



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

Sample Name: "244126006" Sample ID: "94007121LER" File: "EXS01220023.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:11:06 PM
 Modified: No



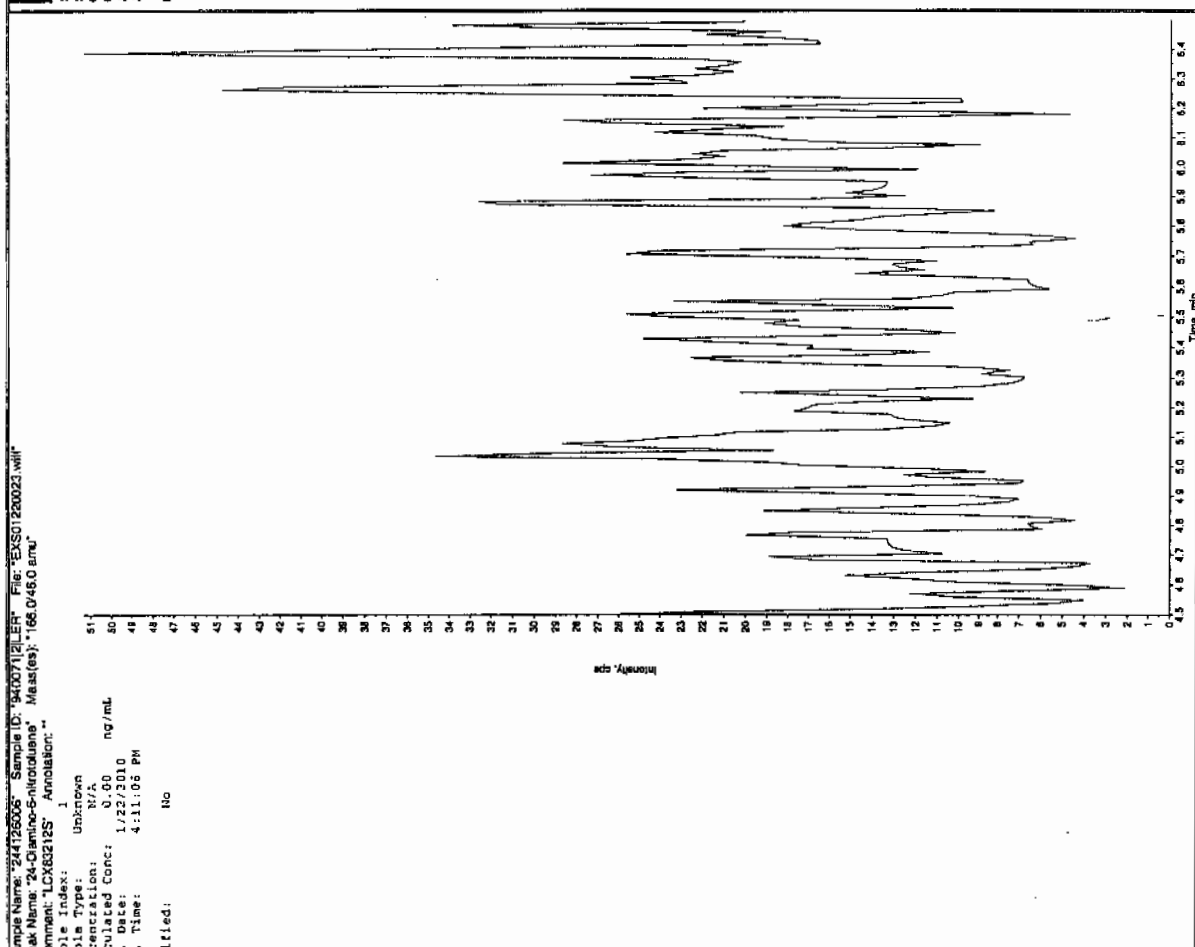
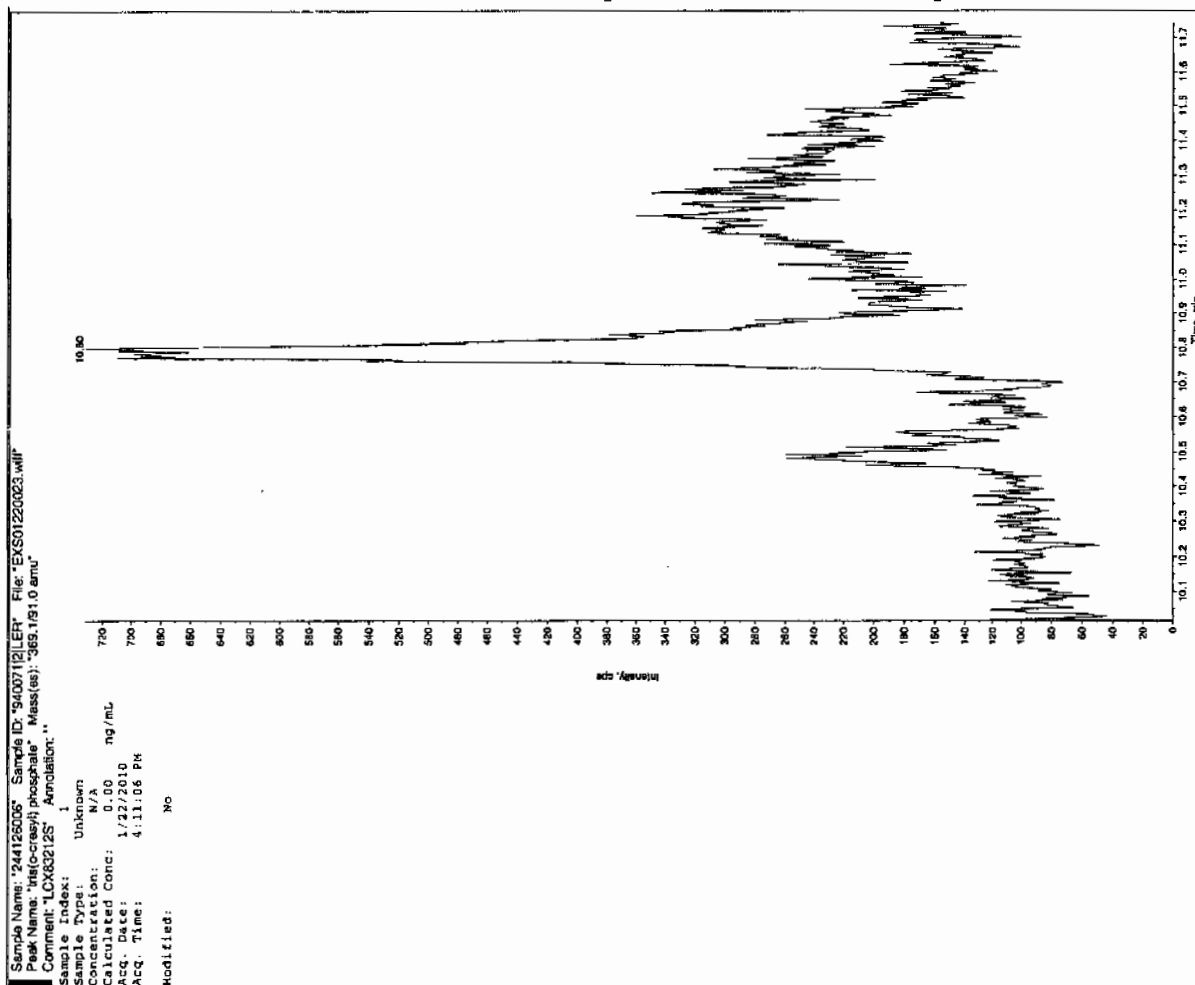
Sample Name: "244126006" Sample ID: "94007121LER" File: "EXS01220023.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:11:06 PM
 Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Window: 3 points
 Window: 15.0 sec
 Retention Time: 8.30 min
 Relative RT: No

Type: Valley
 Retention Time: 8.30 min
 Height: 3.68e+005 counts
 Width: 943292.053 cps
 Time: 8.19 min
 Time: 8.63 min

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



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: RE12-10-7644

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125050a

Date Analyzed: 26-JAN-10 11:26

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0125050a

Date: 26-Jan-2010

Time: 11:26:35

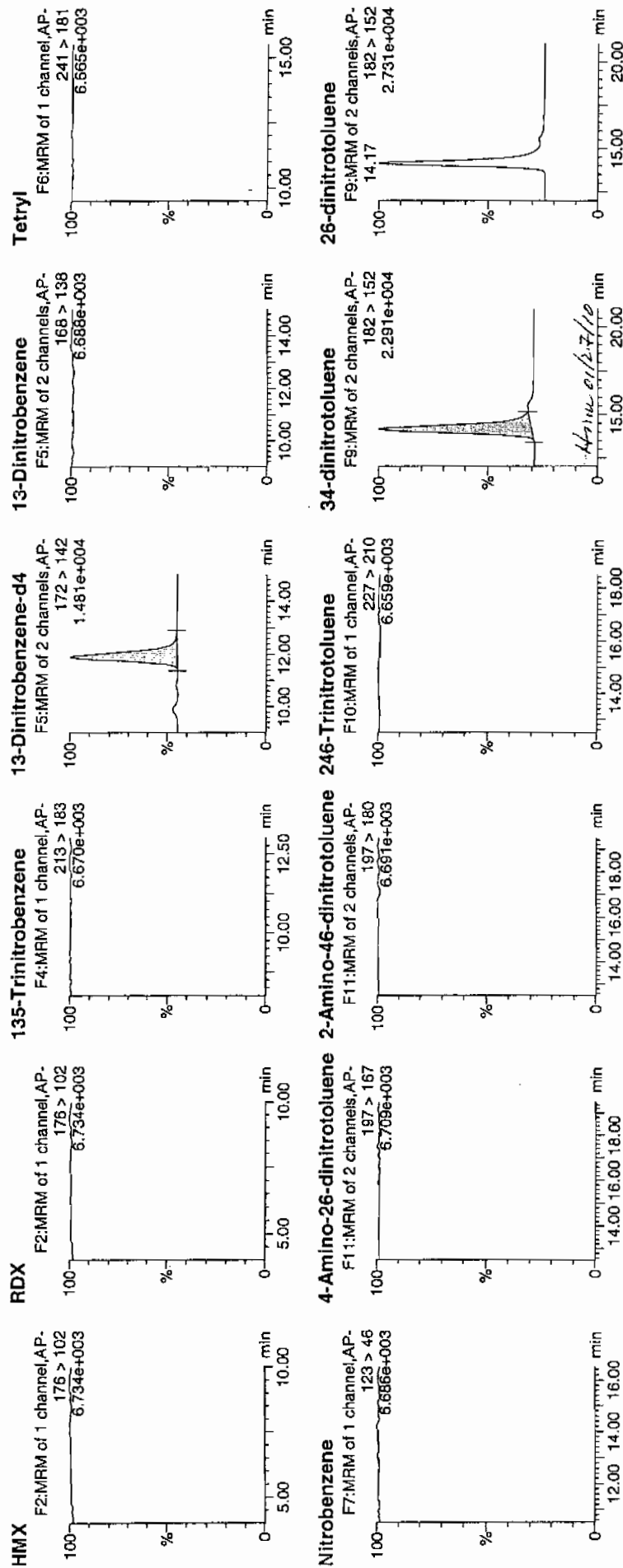
ID: 244126007

Vial: 3:2,E

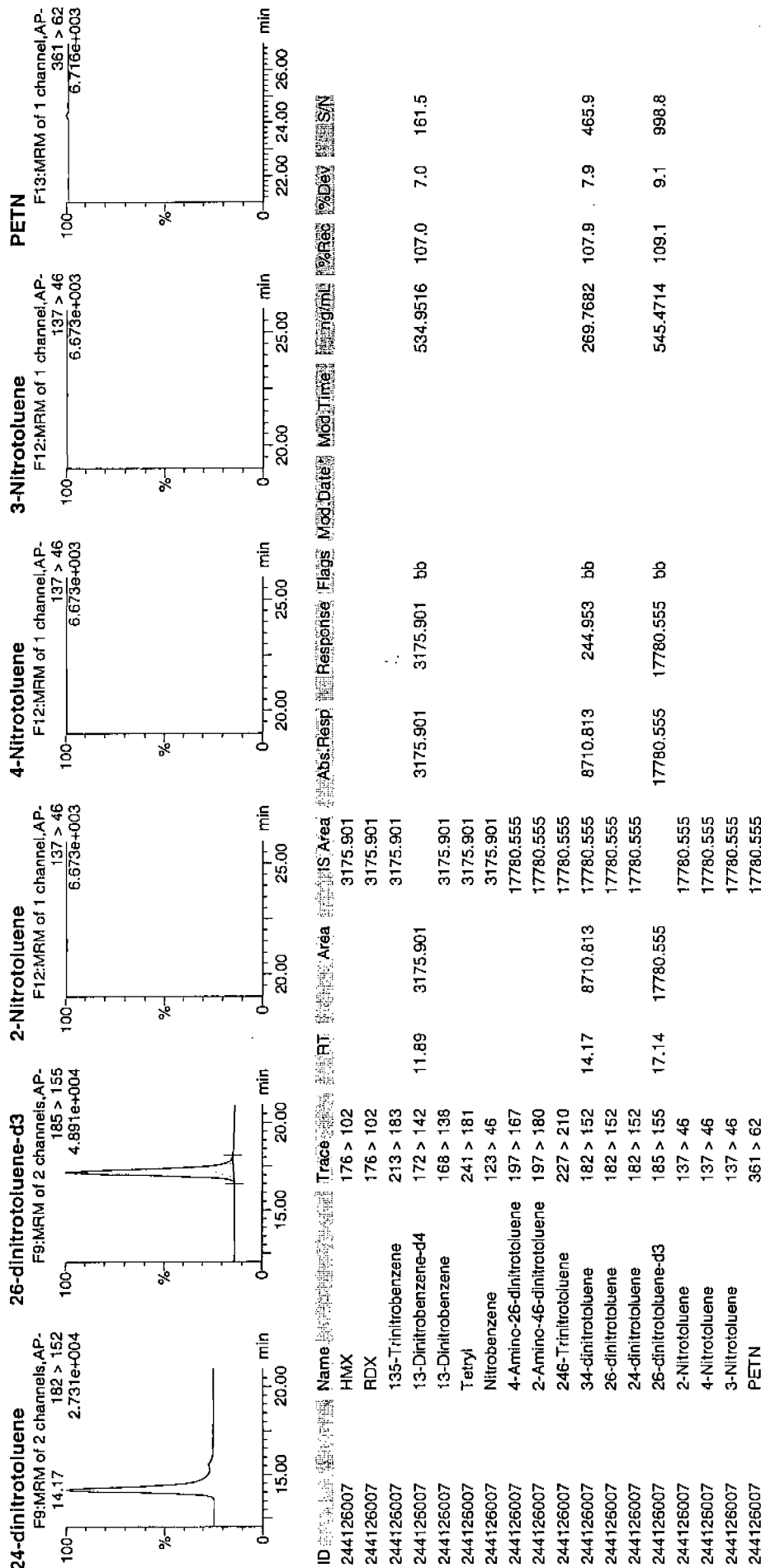
1/27/10

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Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7644

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220027.wiff

Date Analyzed: 22-JAN-10 17:13

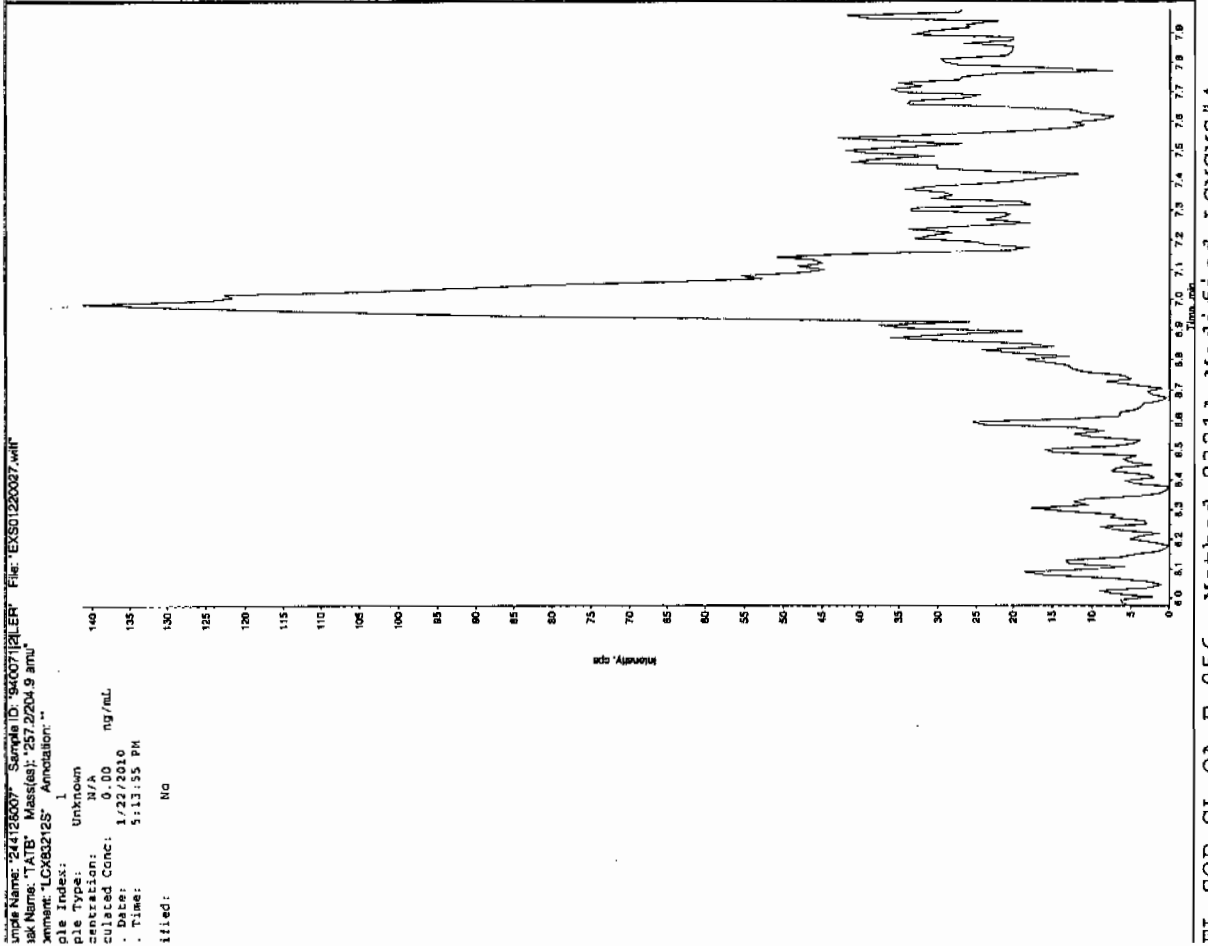
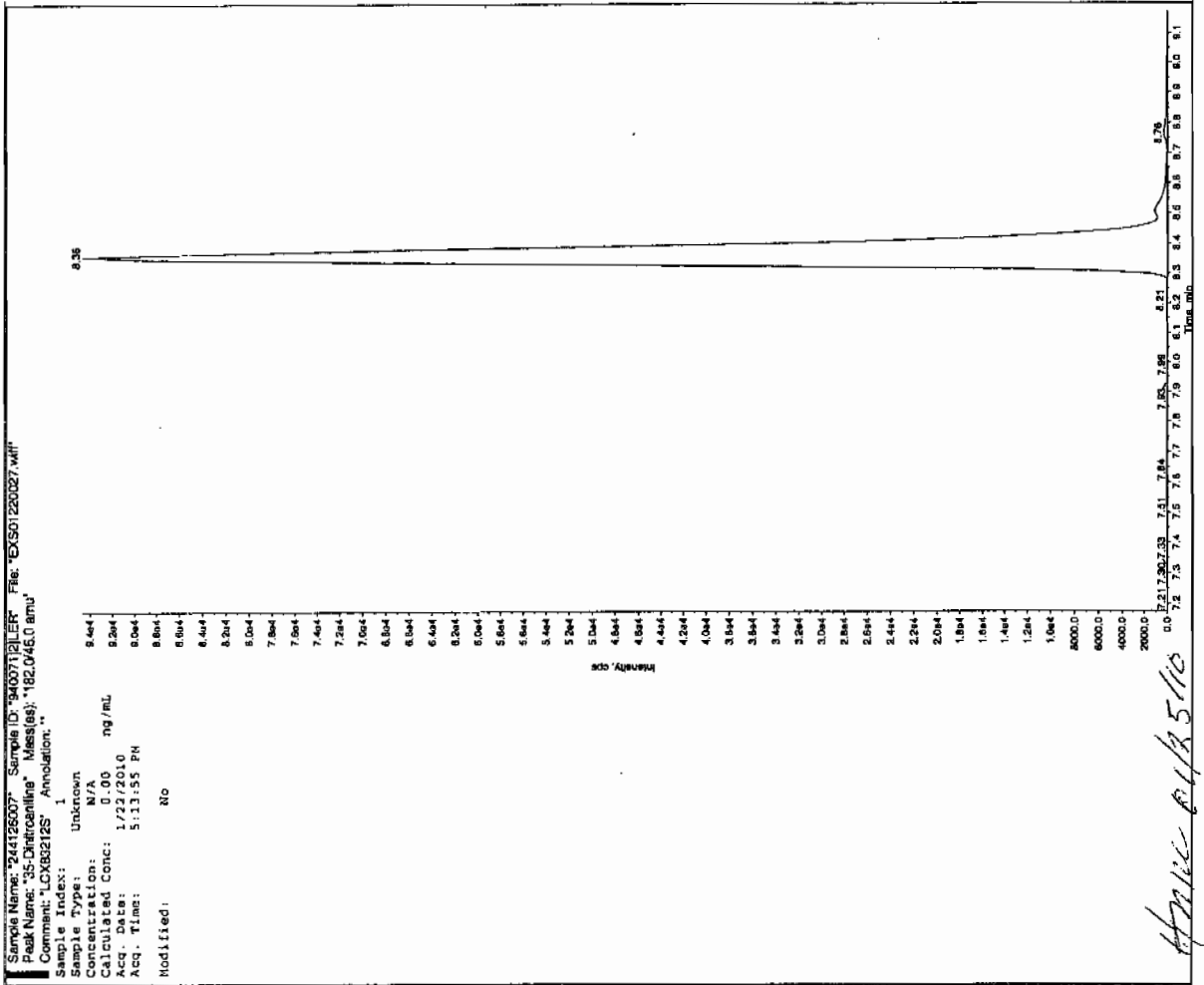
Units: ug/kg

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

See 1/25/10



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

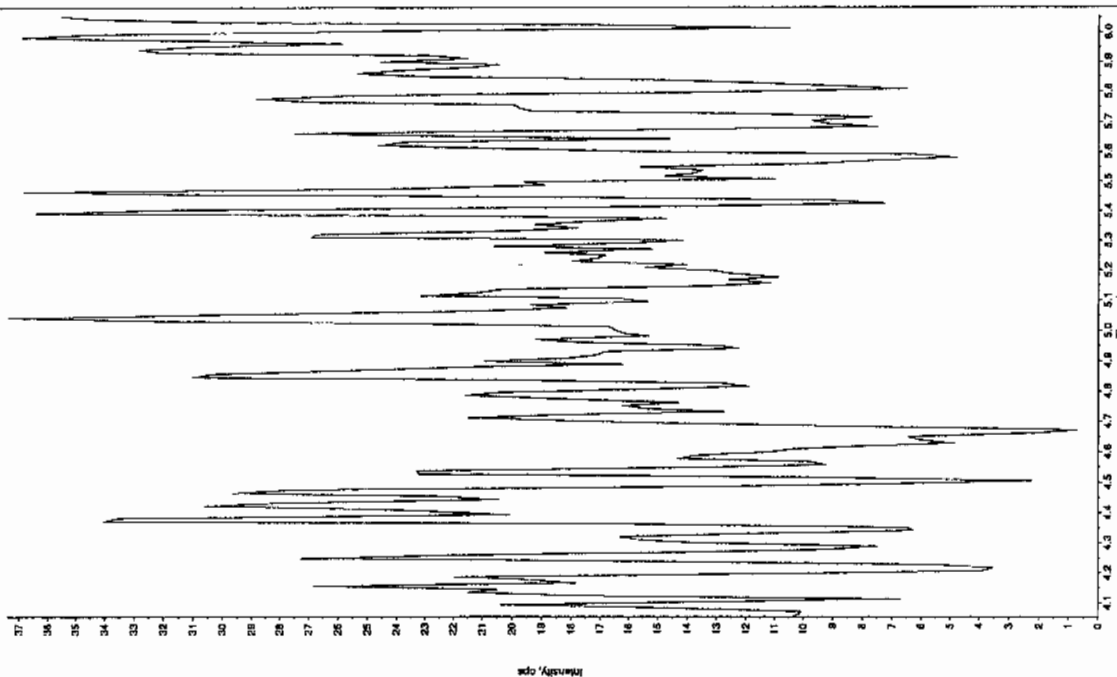
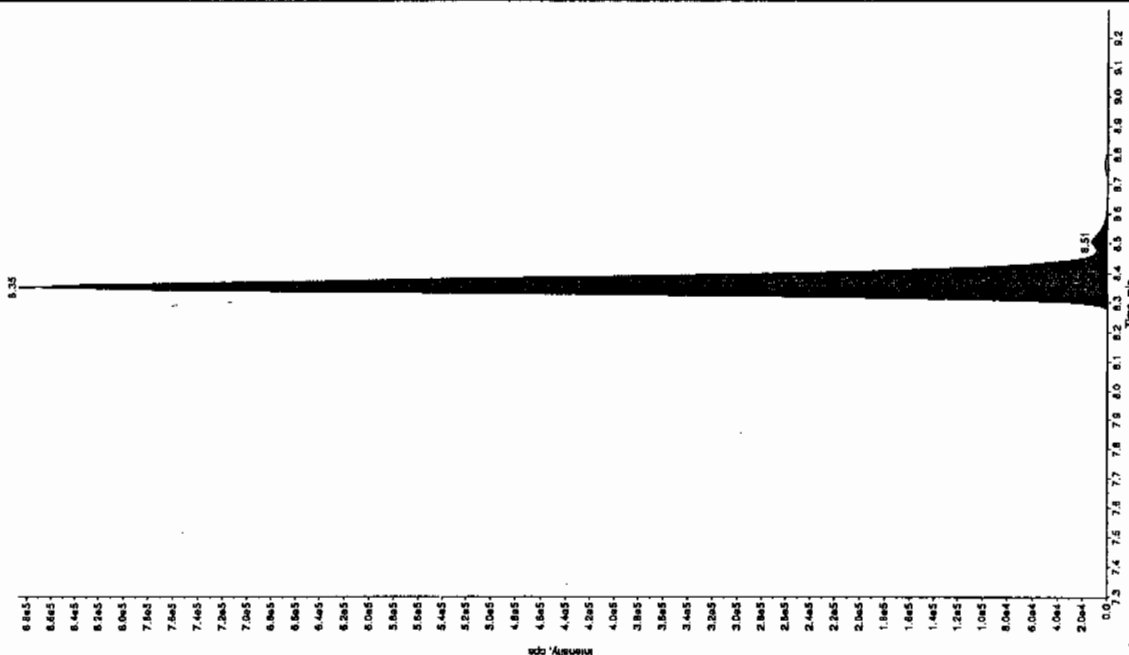
Sample Name: "244128007" Sample ID: "94D07112LEF" File: "EXS01220027.will"
 alk Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

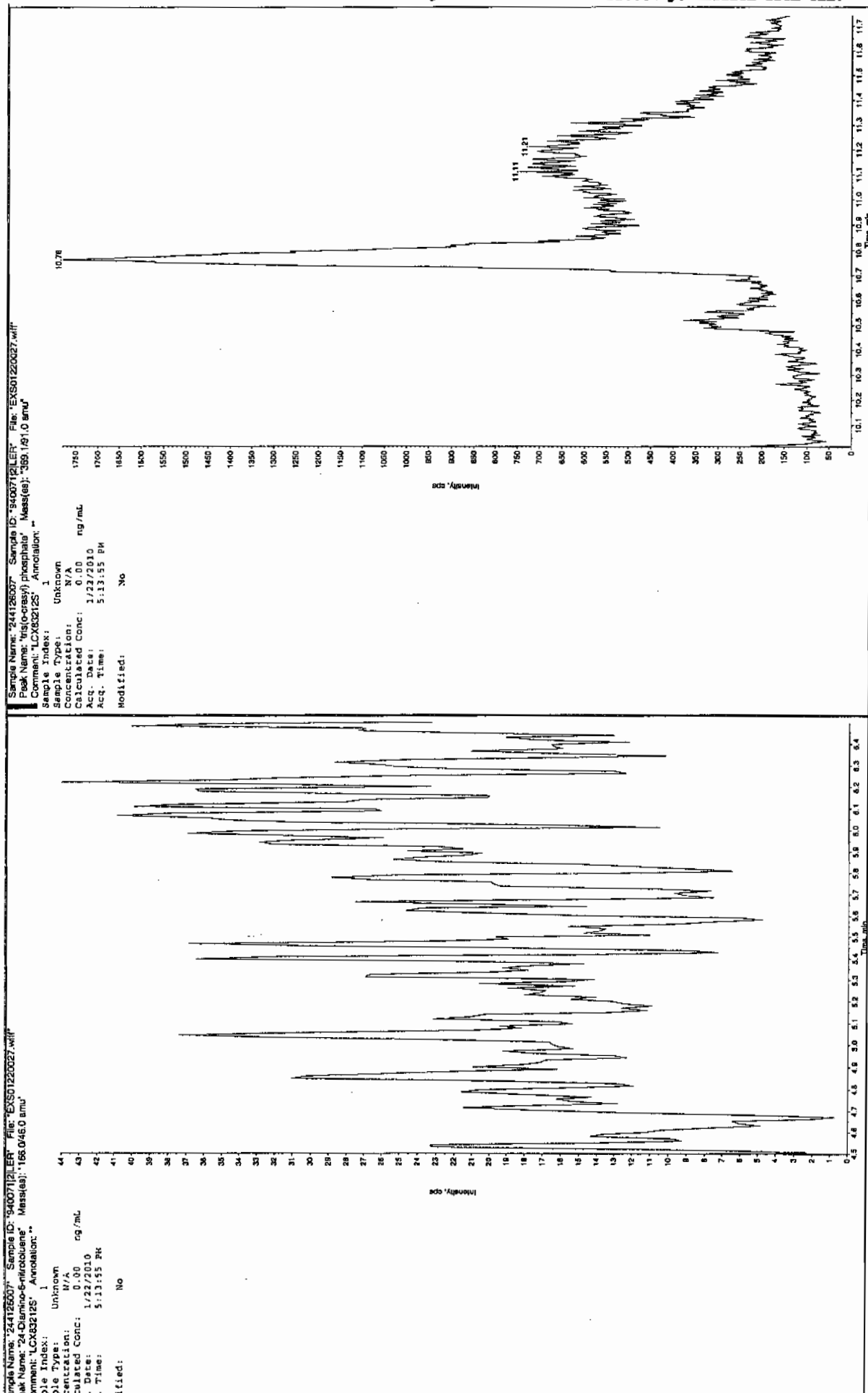
Comment: "CX832125"	Annotation: "
Sample Index: 1	
Sample Type: Unknown	
Concentration: N/A	ng/mL
Calculated Conc: 0.00	
Acq. Date: 1/22/2010	
Acq. Time: 5:13:55 PM	
Modified: No	

```

**** Comment: "LCX83212S" Annotation: "*"
****
**** Index: 1
****
**** Sample Type: Unknown
****
**** Concentration: 754 ug/mL
****
**** Sample Date: 1/23/2010
****
**** Time: 5:13:55 PM
****
**** Labeled: NO
****
**** Algorithm: IncelQuen - IOR
****
**** Peak Width: 1460.00 cps
****
**** Peak Height: 3.00 points
****
**** Window Width: 15.0 sec
****
**** Retention RT: 8.30 min
****
**** Related RT: NO
****
**** Sample Type: Valley
****
**** Injection Time: 8.35 min
****
**** Sample Volume: 3.50 uL
****
**** Sample Weight: 856769.653 cgms
****
**** Run Time: 8.22 min
****
**** Total Time: 6.66 min

```





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: RE12-10-7637

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125051a

Date Analyzed: 26-JAN-10 11:56

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0125051a

Date: 26-Jan-2010

Time: 11:56:09

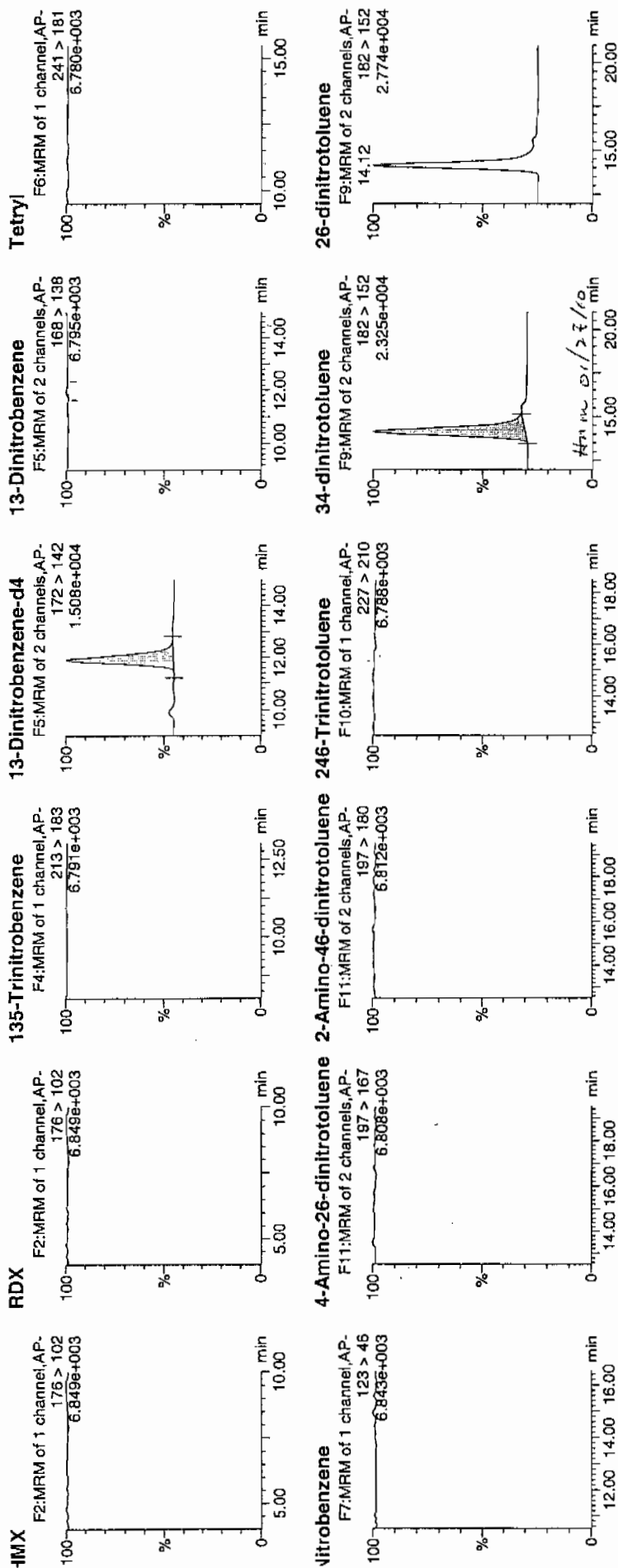
D: 244126008

/fil: 3:2,F

1/27/10

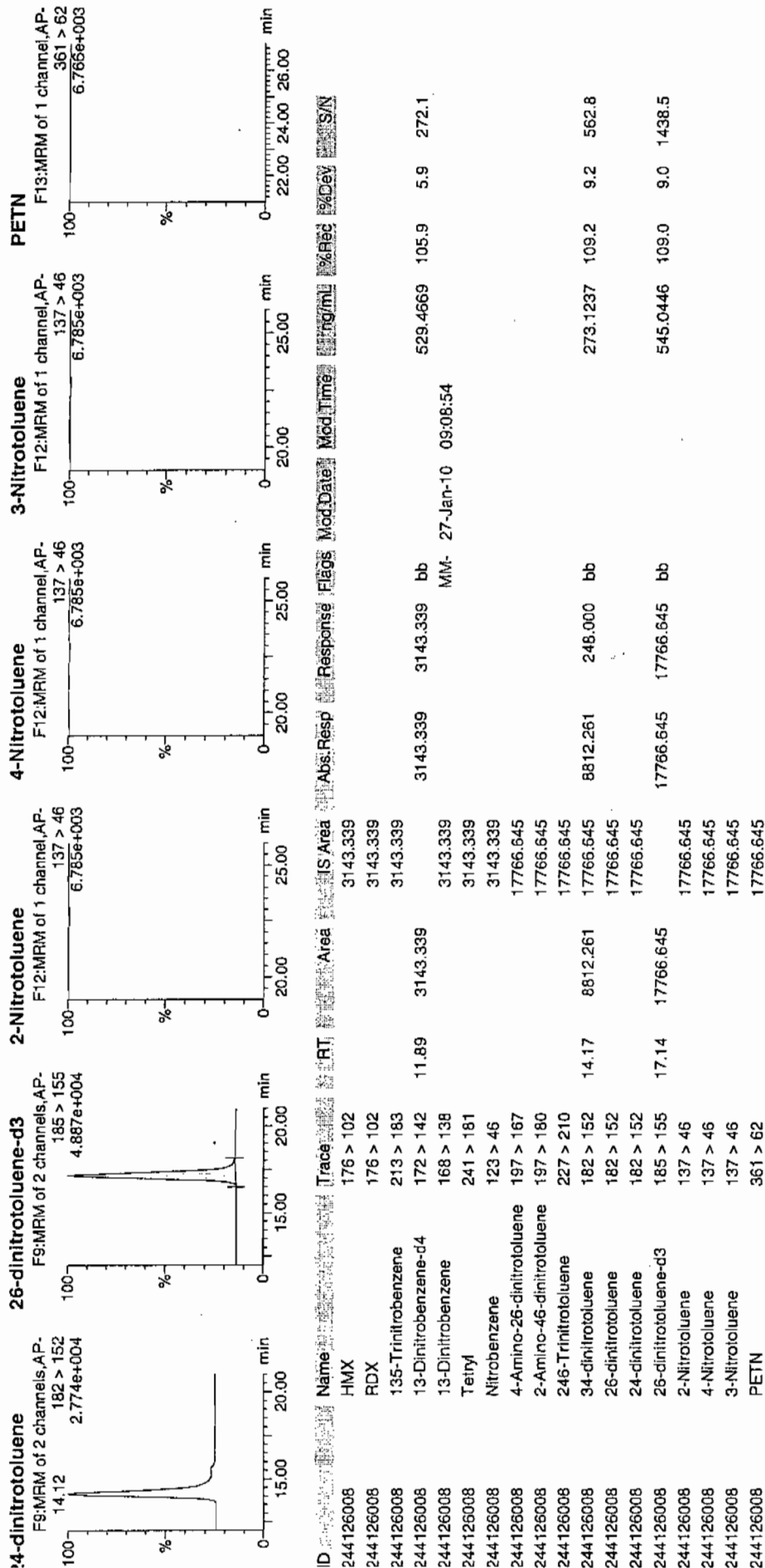
LANC 940071 | SOLID 121

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

Dataset: C:\MASSLYNX\New_Exp\PRO012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7637

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220028.wiff

Date Analyzed: 22-JAN-10 17:29

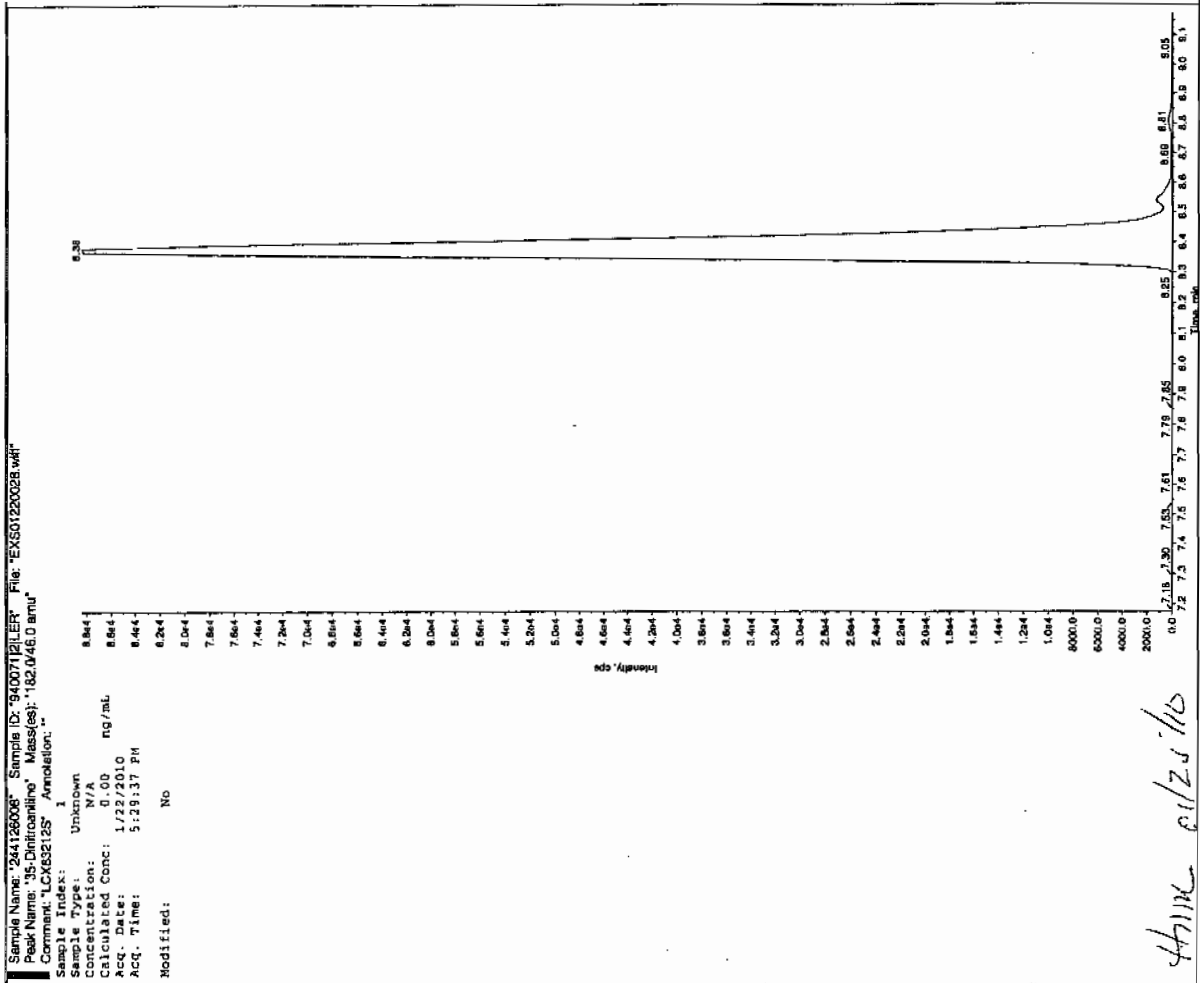
Units: ug/kg

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

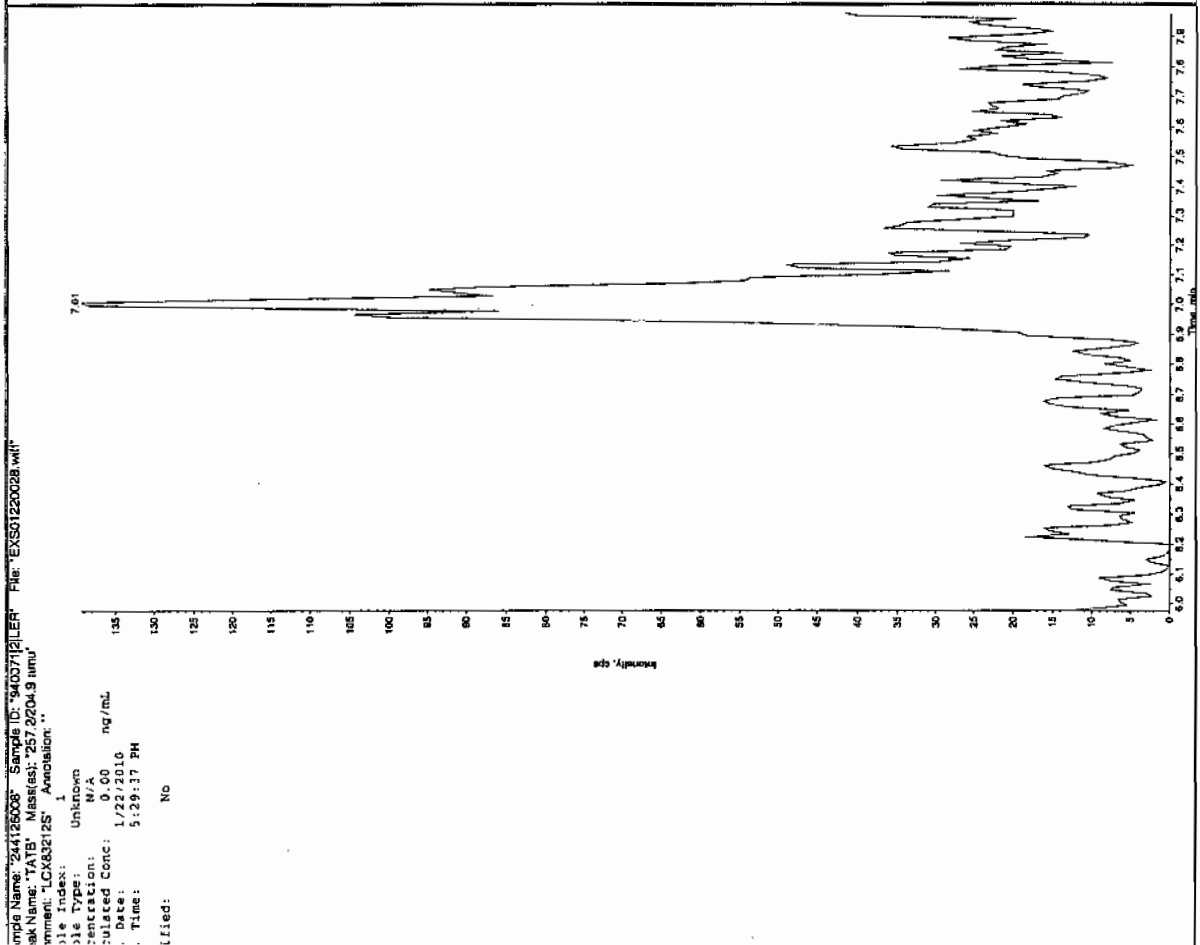
*Concentration =

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

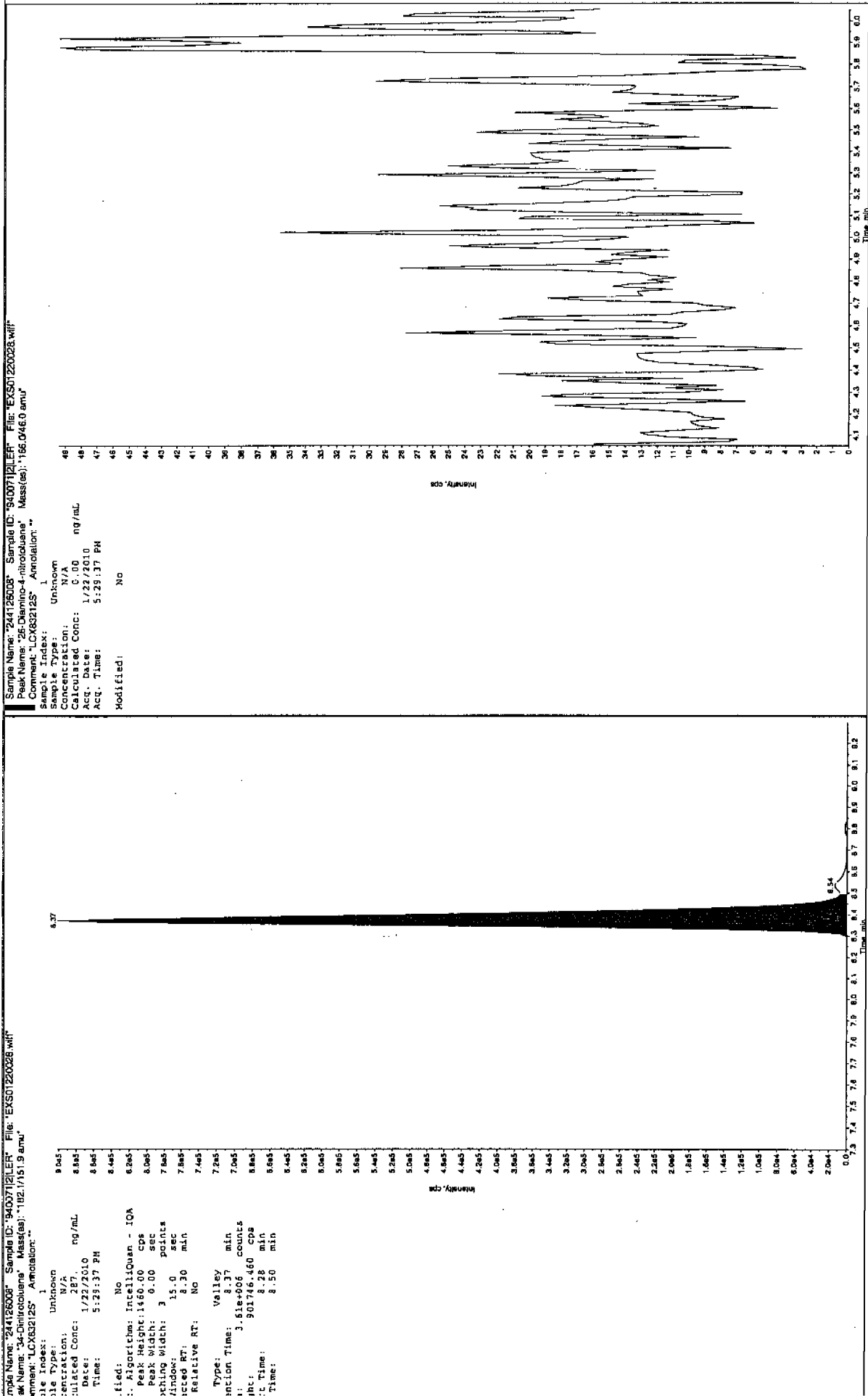
Ken 1/25/10



44116 6/12/10

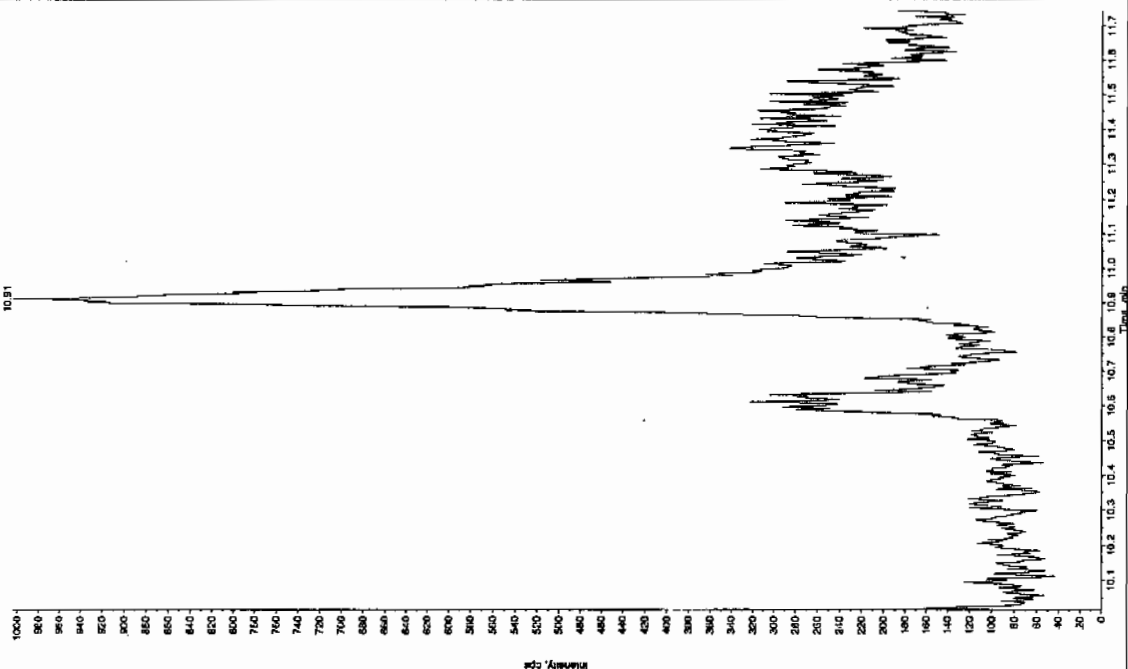


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



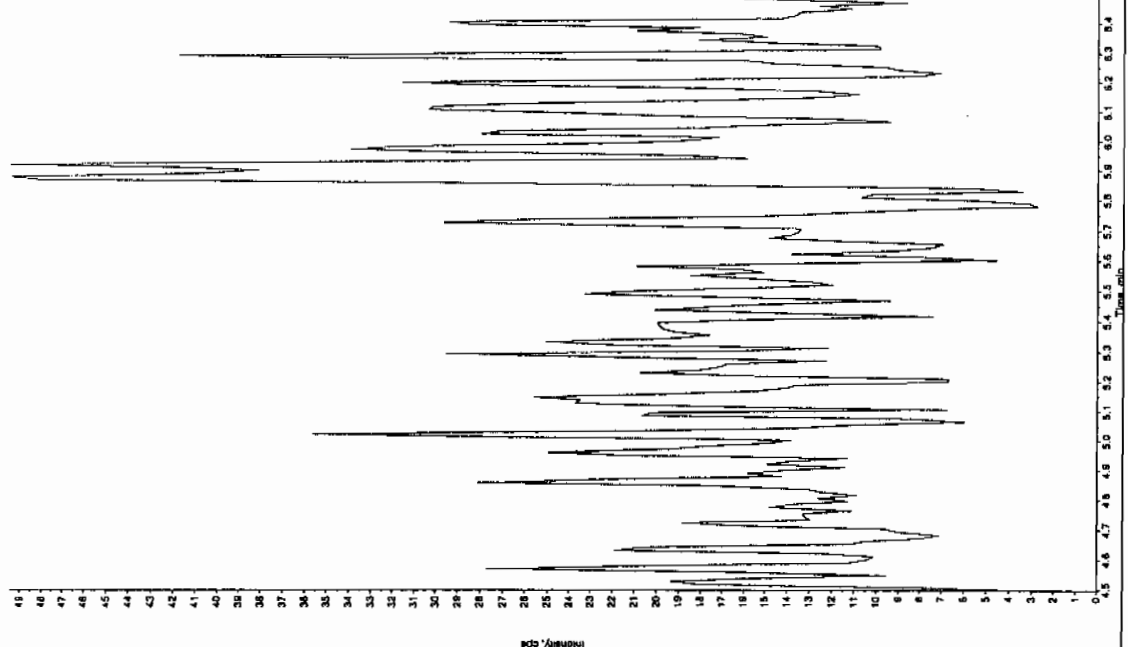
Sample Name: "244125035" Sample ID: "94007121ER" File: "EX501220028.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "355.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 5:29:37 PM
 Modified: No



Sample Name: "244125035" Sample ID: "94007121ER" File: "EX501220028.wif"
 Peak Name: "24-Diamino-6-nitrocoucane" Mass(es): "166.048.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 5:29:37 PM
 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: RE12-10-7635

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125052a

Date Analyzed: 26-JAN-10 12:25

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125052a

Date: 26-Jan-2010

Time: 12:25:37

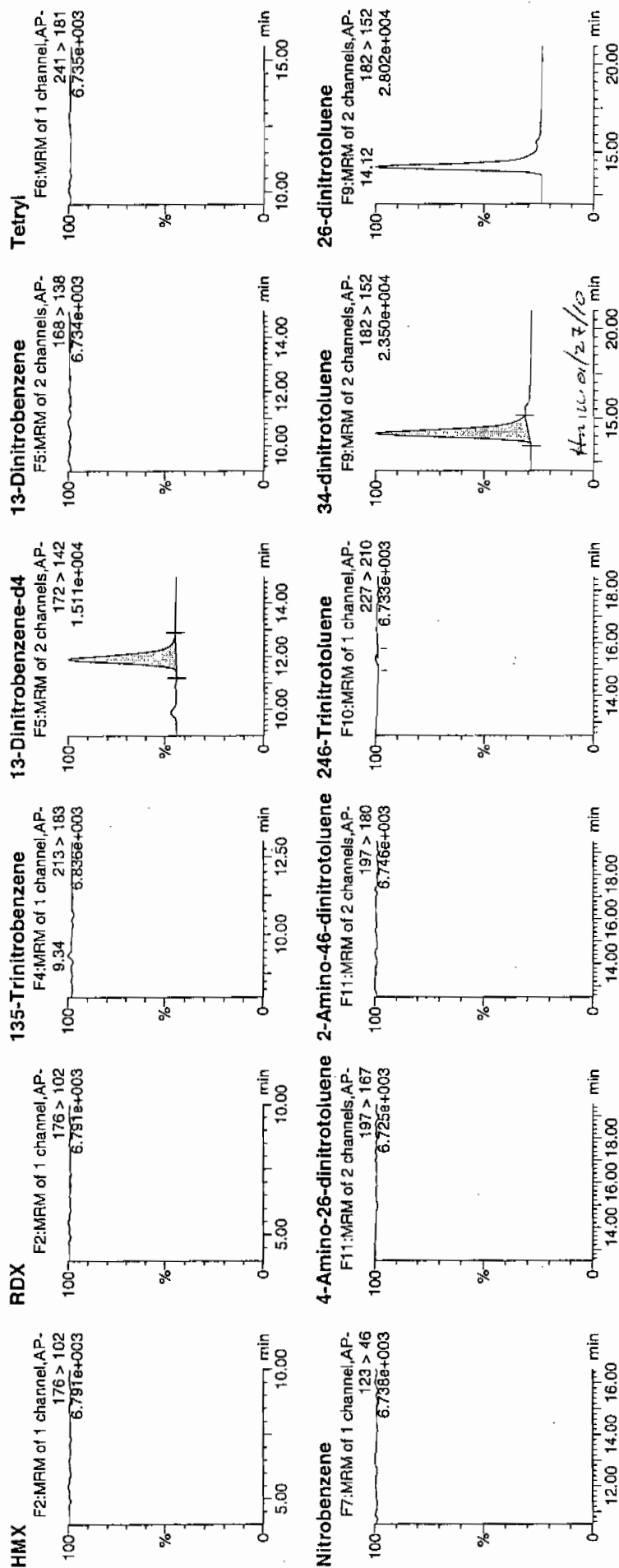
ID: 244126009

Vial: 3:3,A

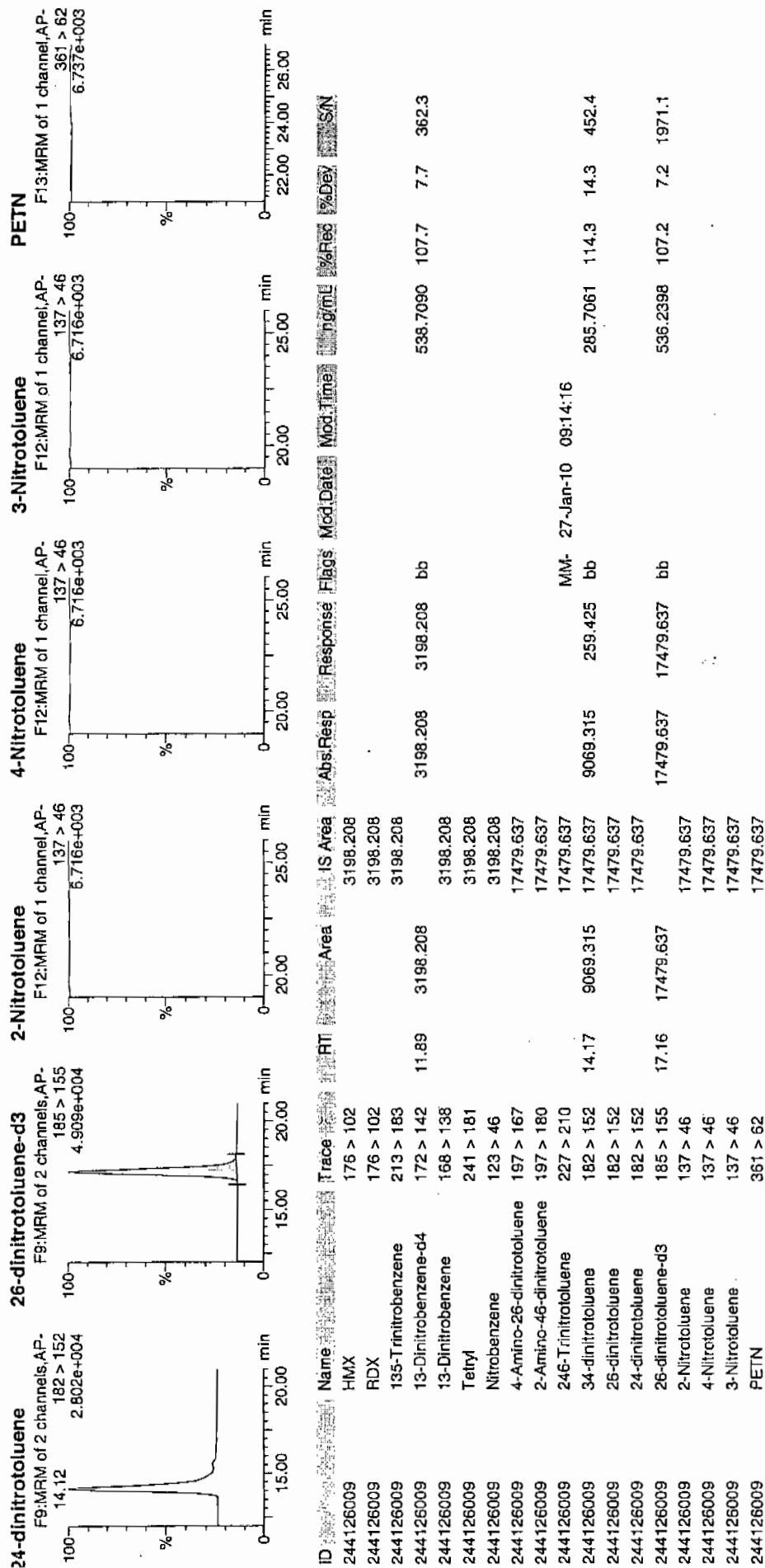
11/27/10

WAXU / 940071 / 8033 / 21

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Dataset: C:\MASSLYNX\New_Exp\PRO012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7635

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220029.wiff

Date Analyzed: 22-JAN-10 17:45

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 1/25/10

Sample Name: "2412605" Sample ID: "94007121ER" File: "EX50122023.wif"

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

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

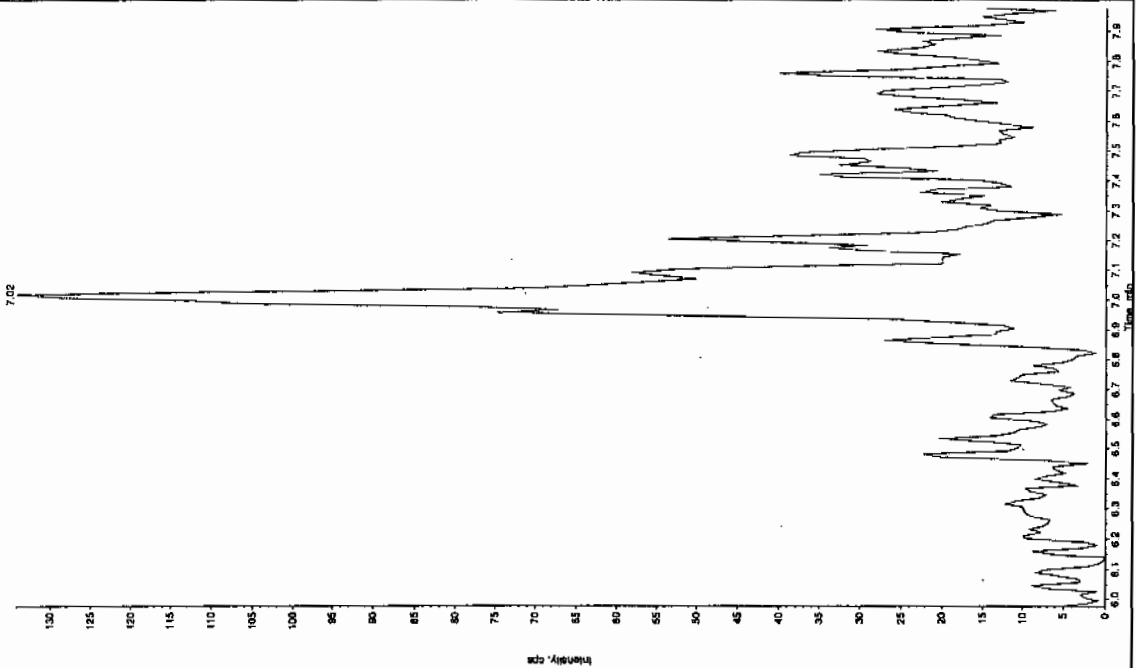
Concentration: 0.00 ng/mL

Calculated Conc: 1/22/2010

Acq. Date: 5:45:21 PM

Acq. Time: 5:45:21 PM

Modified: No



Sample Name: "2412605" Sample ID: "94007121ER" File: "EX50122023.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

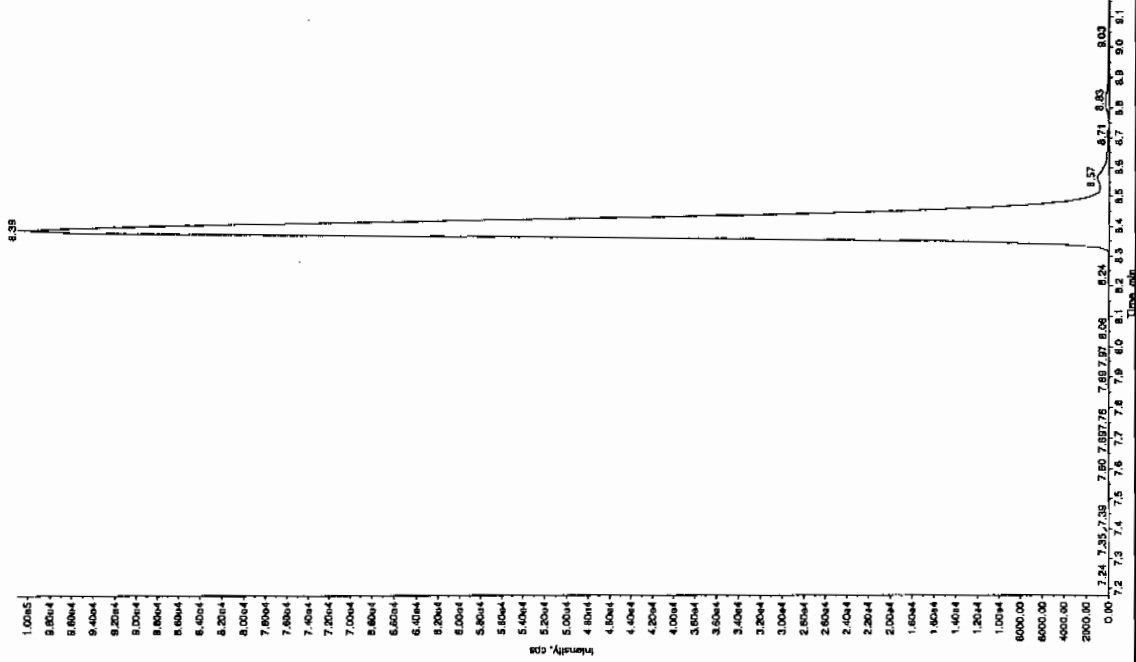
Concentration: 0.00 ng/mL

Calculated Conc: 1/22/2010

Acq. Date: 5:45:21 PM

Acq. Time: 5:45:21 PM

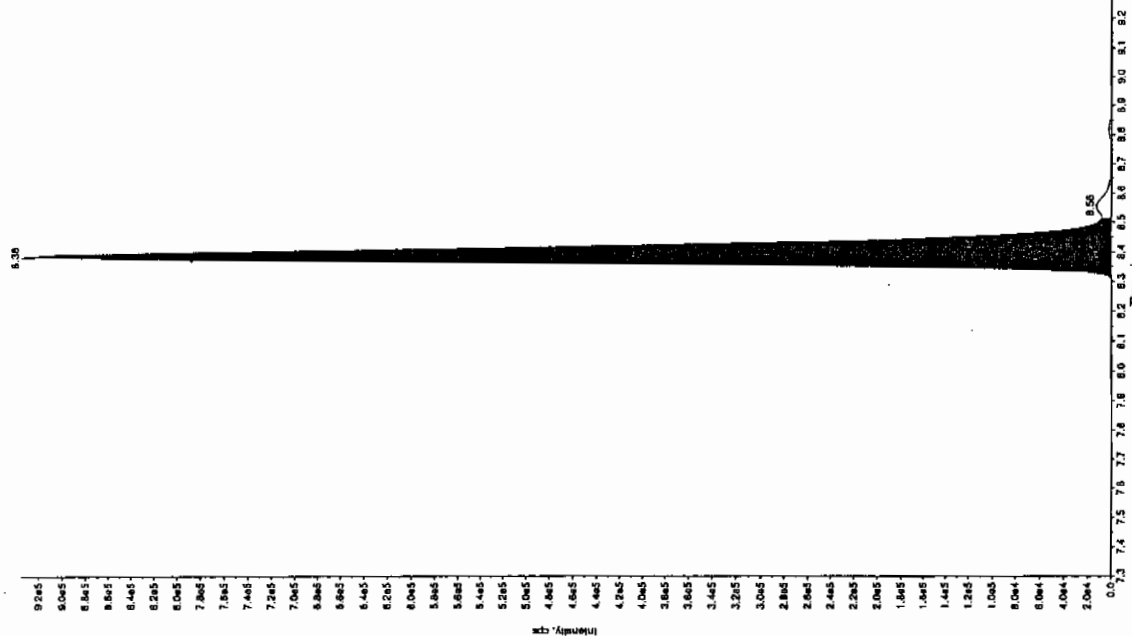
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See 1/25/10

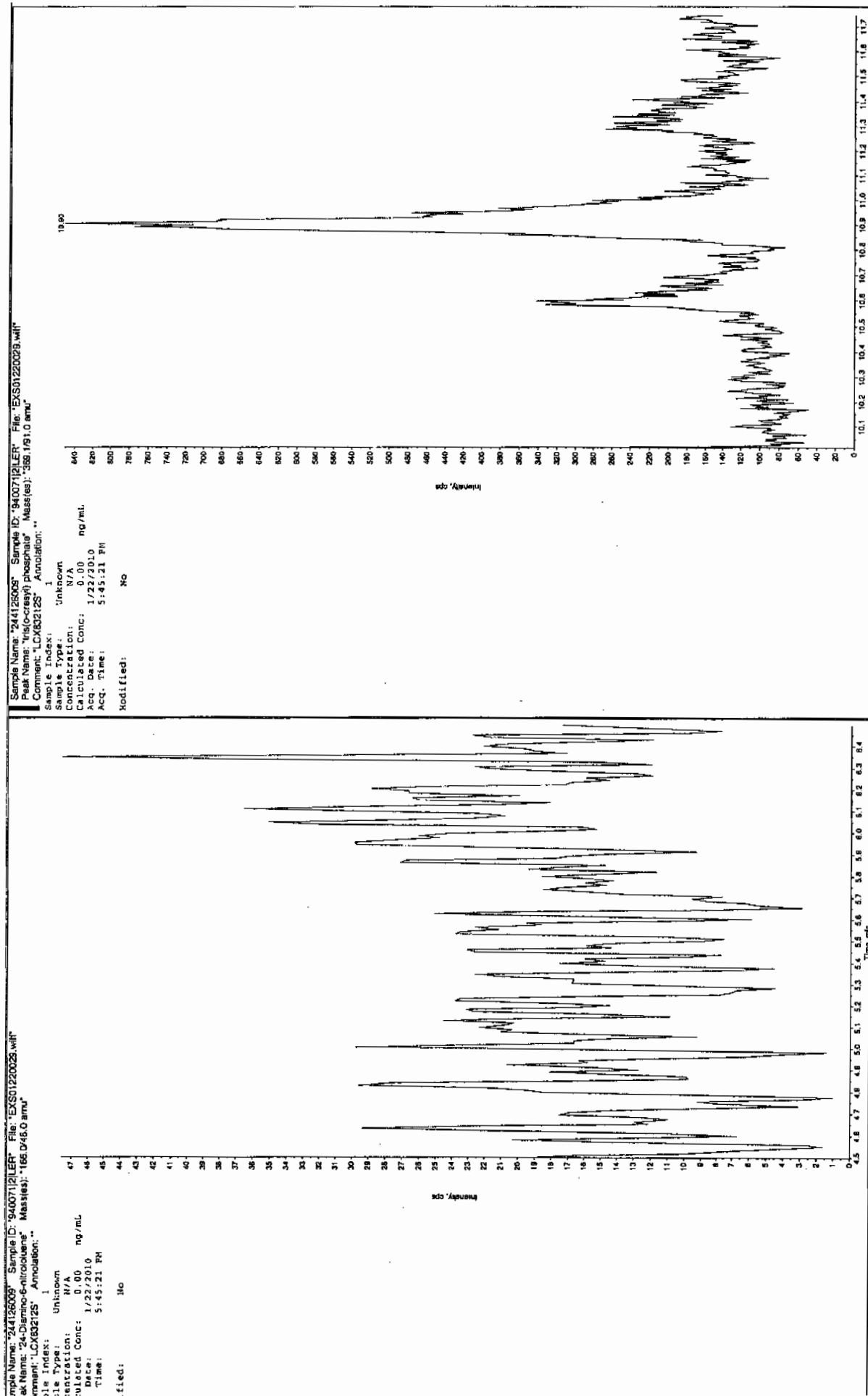
Sample Name: "2412608" Sample ID: "940712LER" File: "EXS01220029.wiff"
 Peak Name: "28-Diamino-4-nitrofluorene" Mass(es): "186.0460 amu"
 Comment: "LCX832125" Acquisition: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 5:45:21 PM
 Modified: No



Sample Name: "2412608" Sample ID: "940712LER" File: "EXS01220029.wiff"
 Peak Name: "34-Clonidine" Mass(es): "182.17519 amu"
 Comment: "LCX832125" Acquisition: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 391 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 5:45:21 PM
 Modified: No
 c. Algorithm: IntelliQuan - IQA
 . Peak Weight: 1960.00 cps
 . Peak Width: 0.00 sec
 . Window Width: 3 points
 . Window: 15.0 sec
 . Retention RT: 8.30 min
 . Relative RT: No
 . Type: Valley
 . Retention Time: 8.38 min
 . Counts: 3.66e+006 counts
 . gnc: 934826.599 cps
 . RT Time: 8.28 min
 . Time: 8.52 min



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7642

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125053a

Date Analyzed: 26-JAN-10 12:55

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125053a

Date: 26-Jan-2010

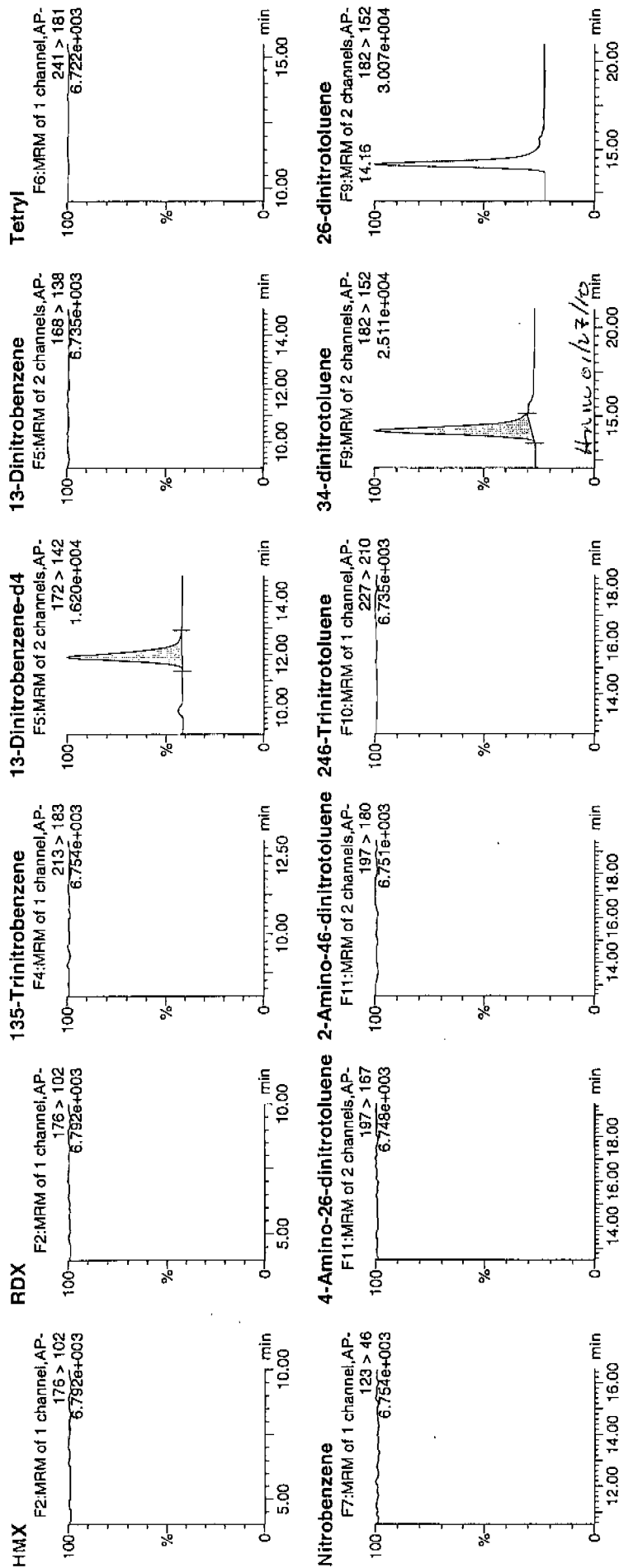
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ID: 244126010

Vial: 3:3,B

1/27/10

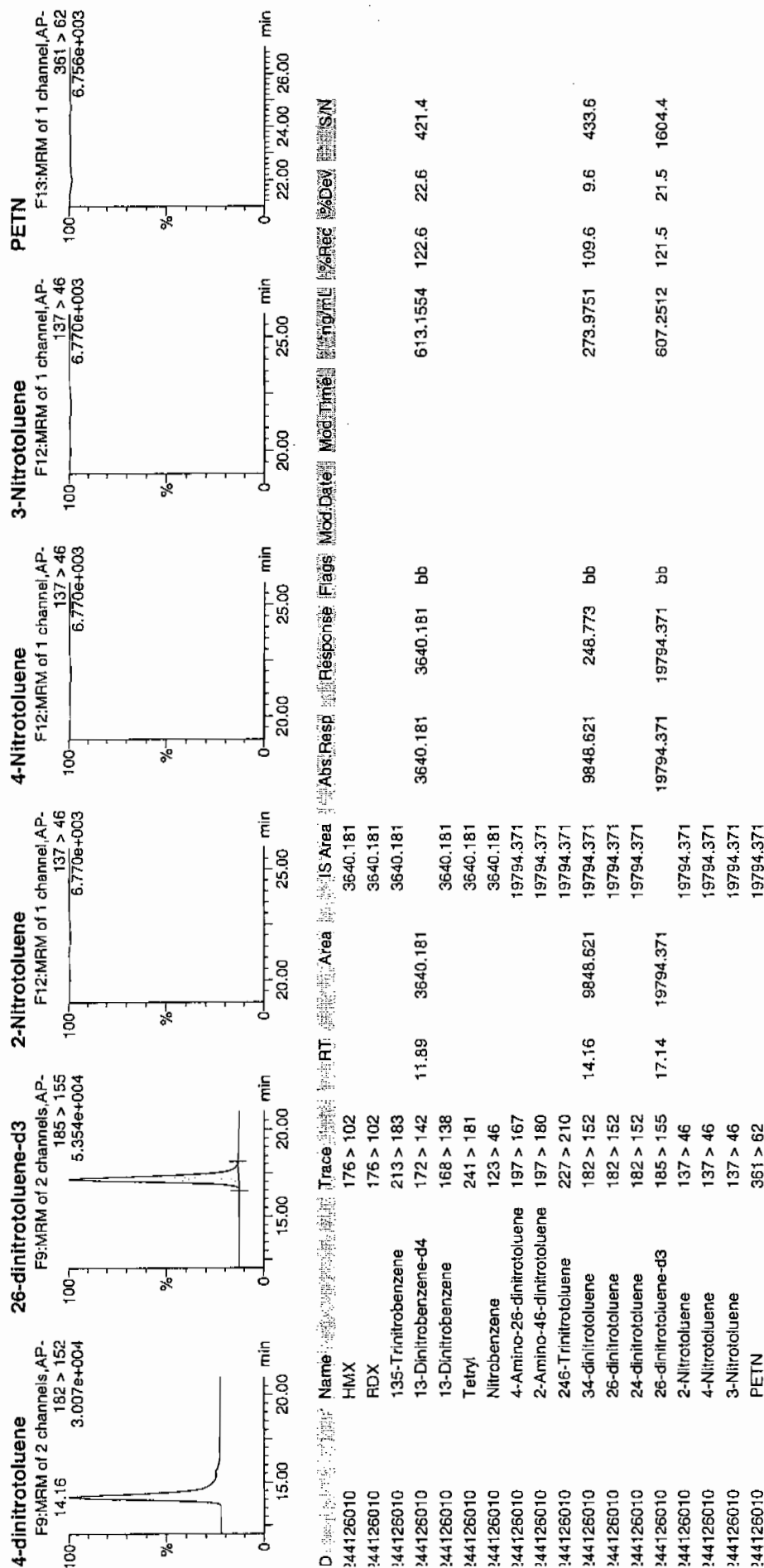
LANV 940071 | 21



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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7642

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220030.wiff

Date Analyzed: 22-JAN-10 18:01

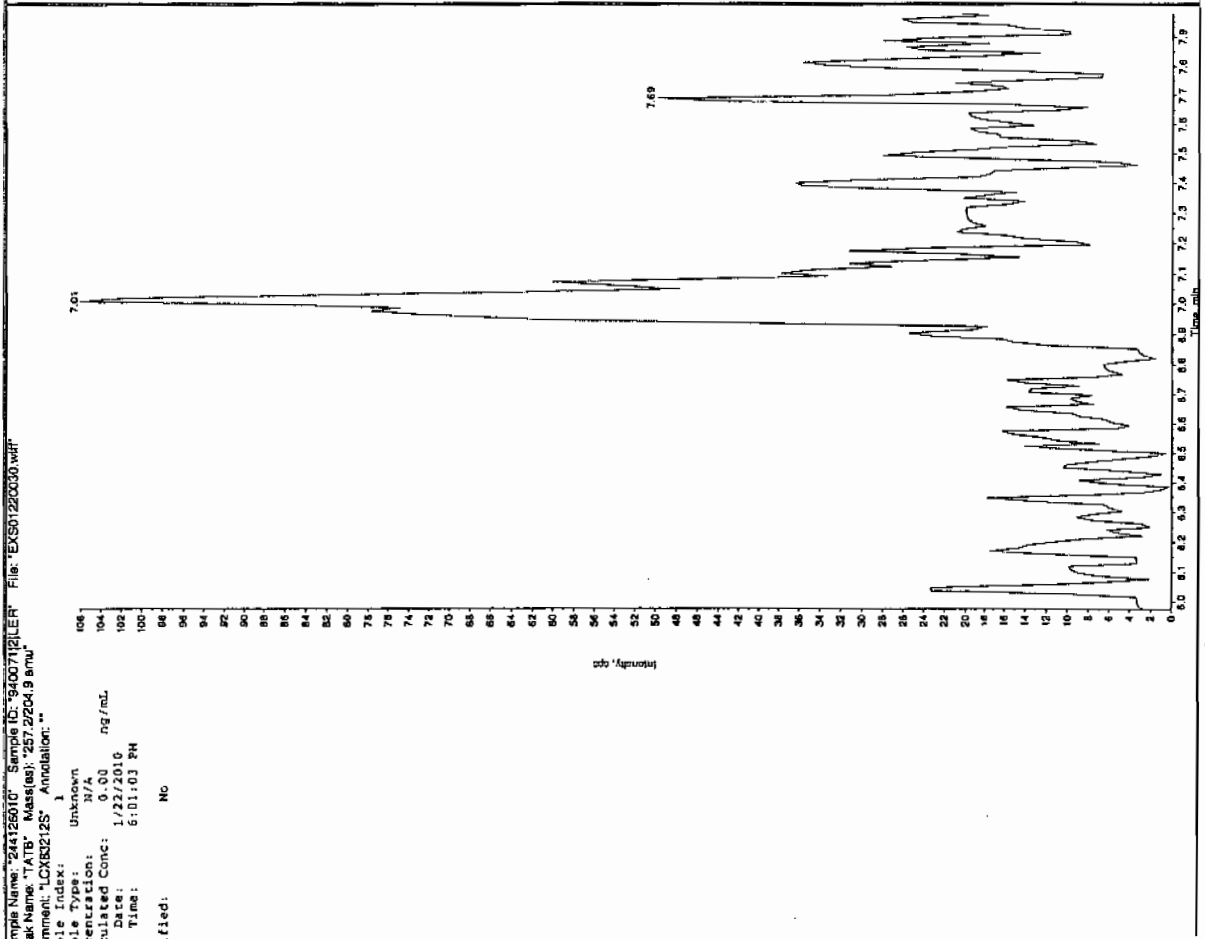
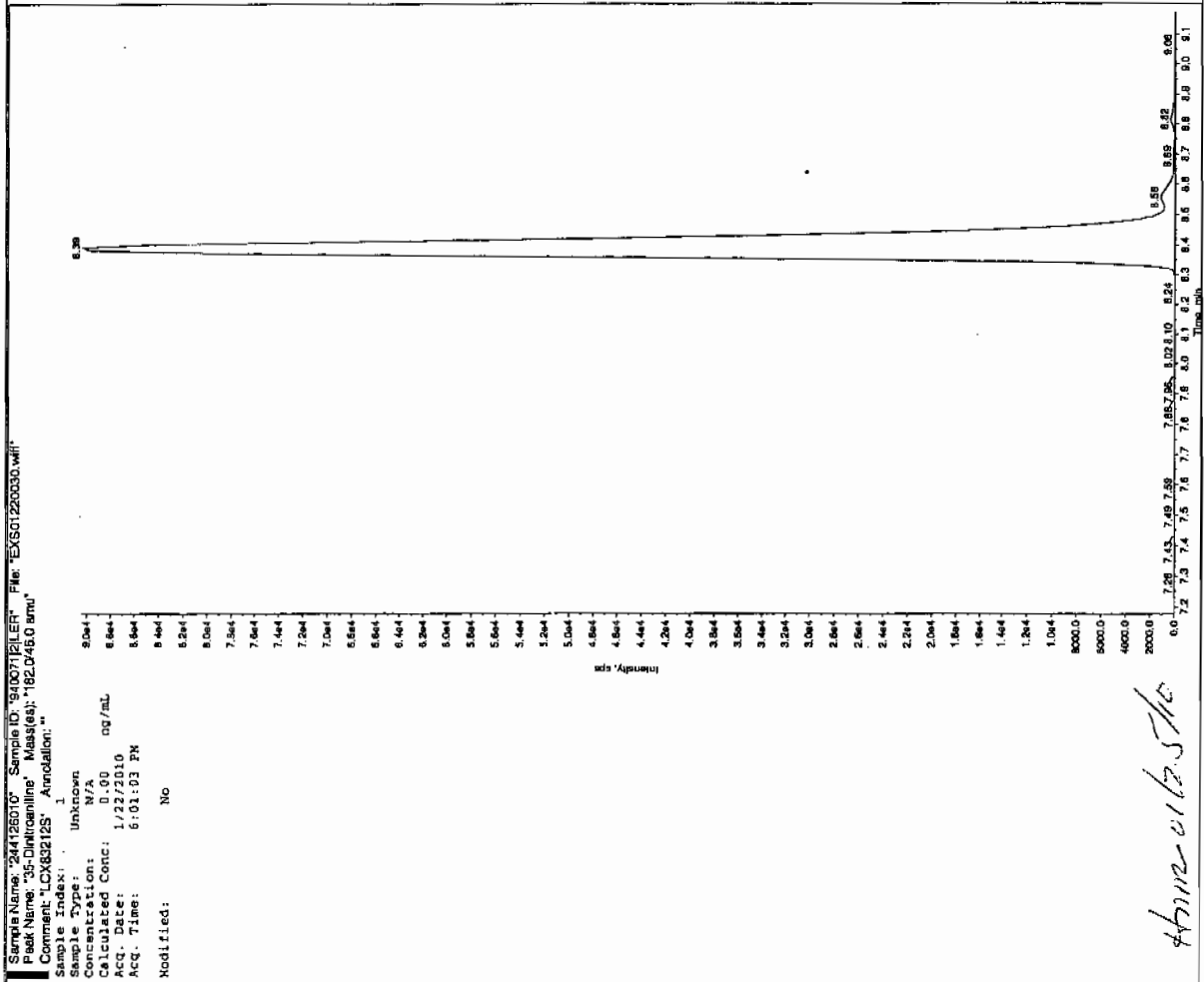
Units: ug/kg

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

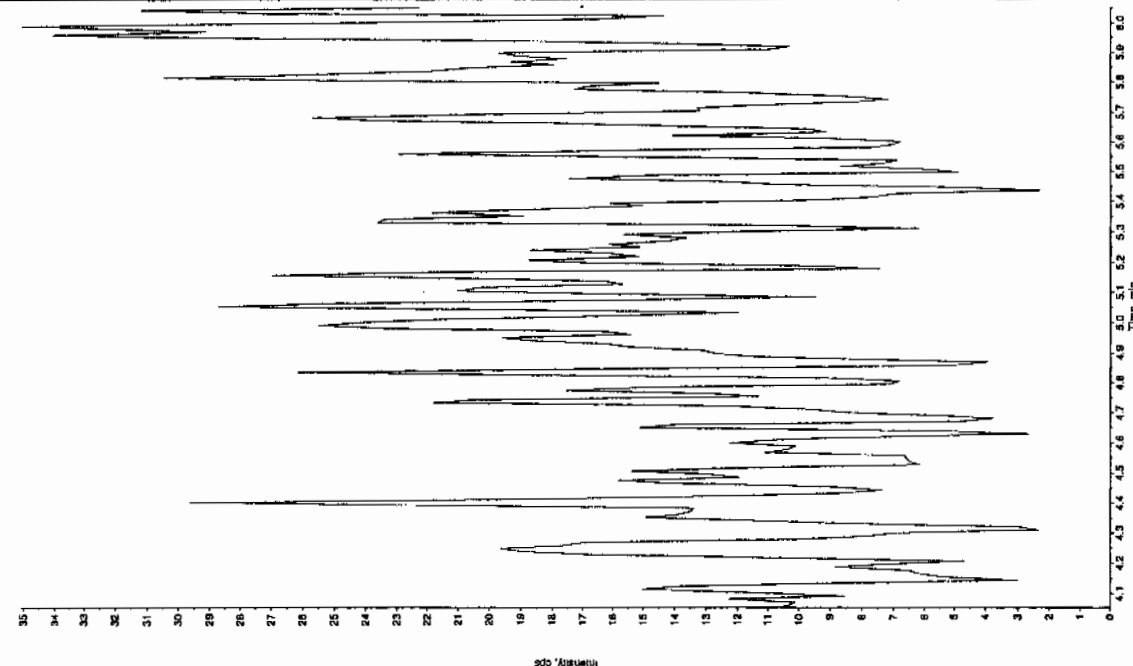
See 1125110



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

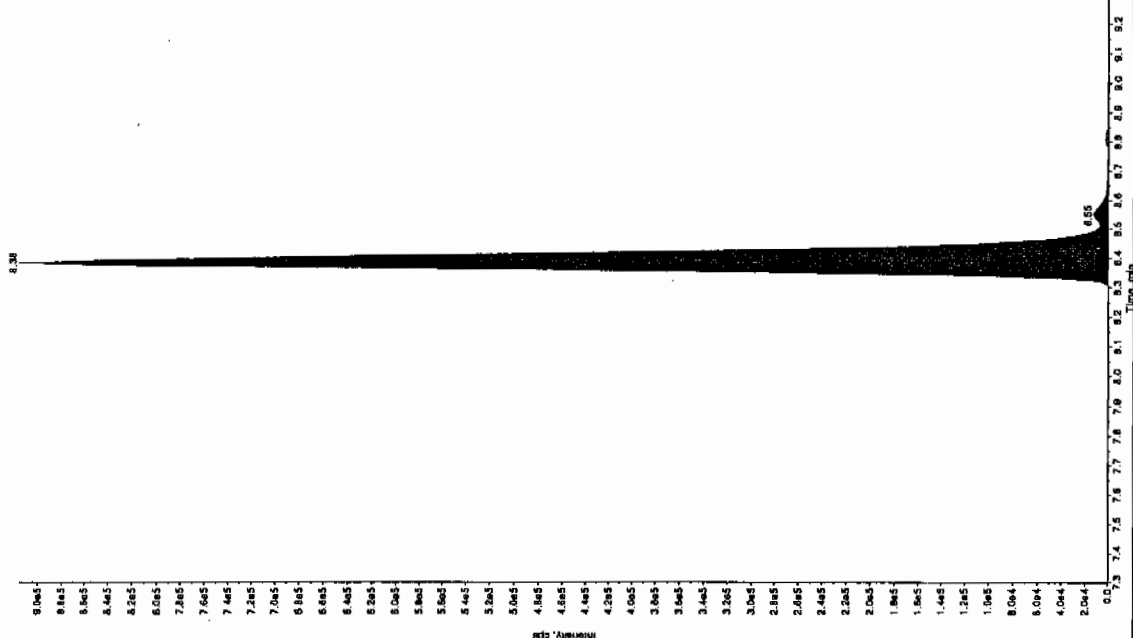
Sample Name: "244126010" Sample ID: "9400712121" File: "EX501220030.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

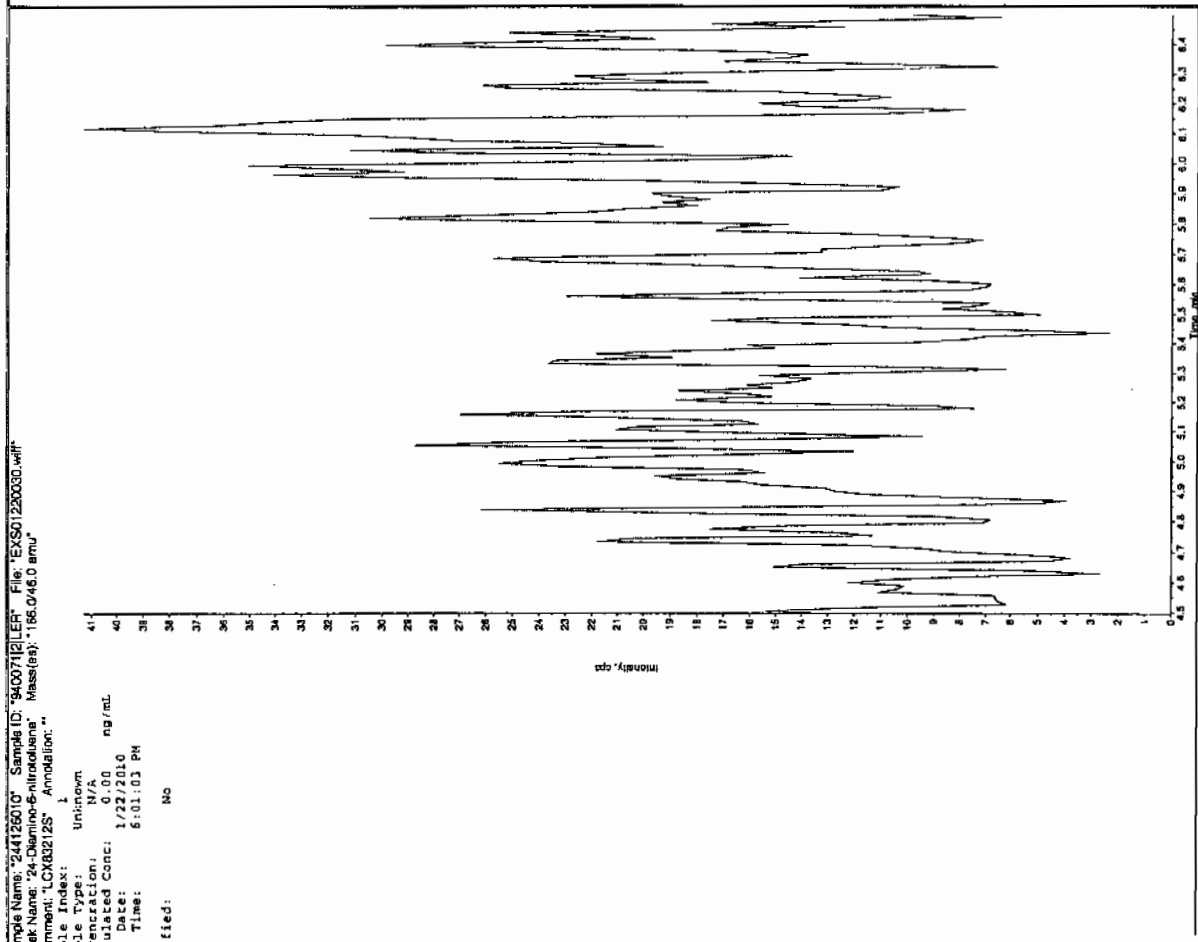
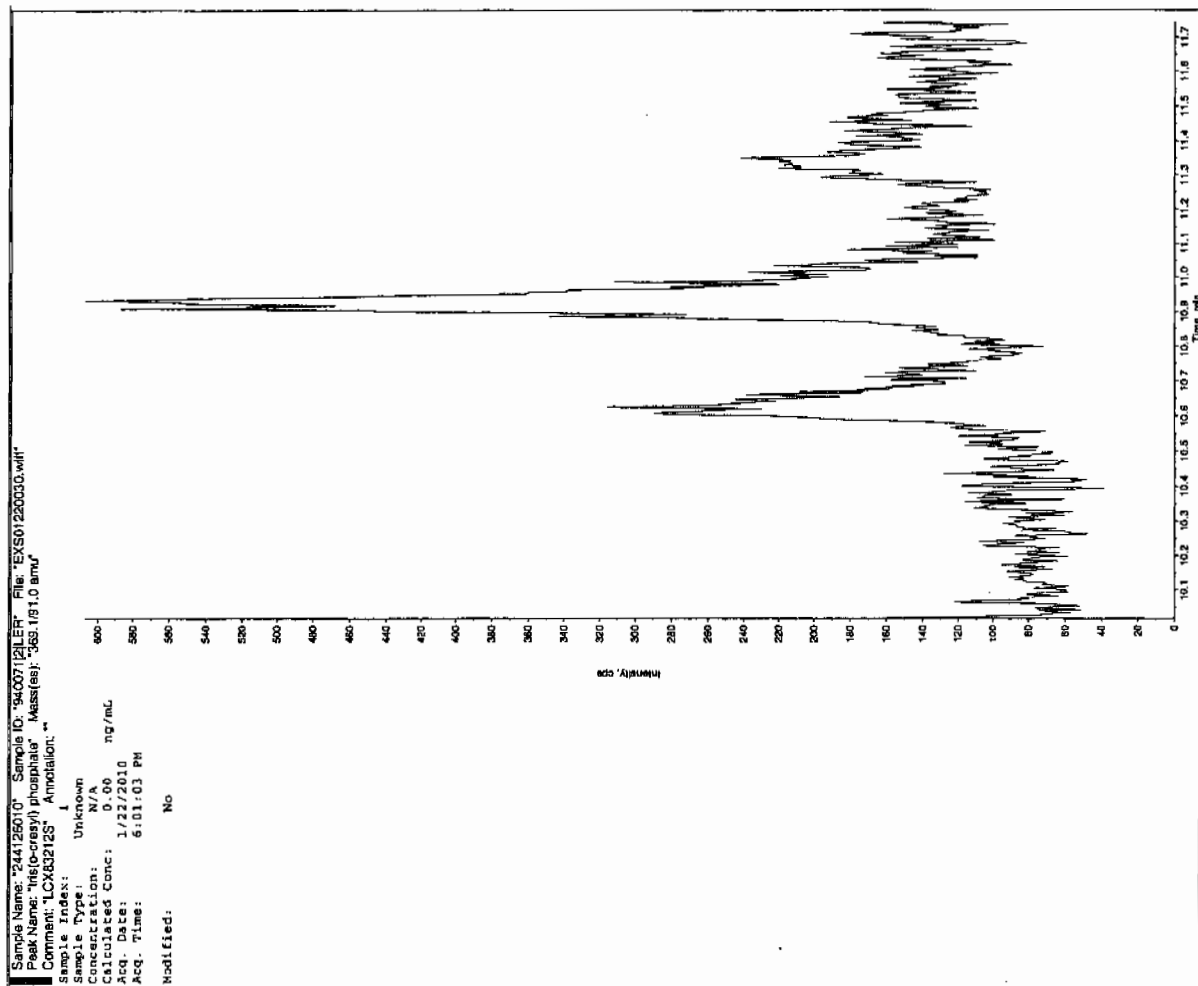
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.30 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 6:01:03 PM
 Modified: No



Sample Name: "244126010" Sample ID: "9400712121" File: "EX501220030.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: 298. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 6:01:03 PM
 Modified: No
 Algorithm: IntellQuan - IQA
 Peak Height: 1650.00 cps
 Peak Width: 0.00 sec
 Peak Area: 15.0 points
 Peak RT: 8.30 min
 Relative RT: No
 Type: Valley
 Inlet Time: 8.38 min
 Inlet: 3.73e+006 counts
 Inlet: 915543.030 cps
 Inlet Time: 8.29 min
 Inlet Time: 6.72 min





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: RE12-10-7649

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125054a

Date Analyzed: 26-JAN-10 13:24

Units: ug/kg

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

*Concentration =

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

Printed: Wed Jan 27 09:26:20 2010, Page 35 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0125054a

Date: 26-Jan-2010

Time: 13:24:35

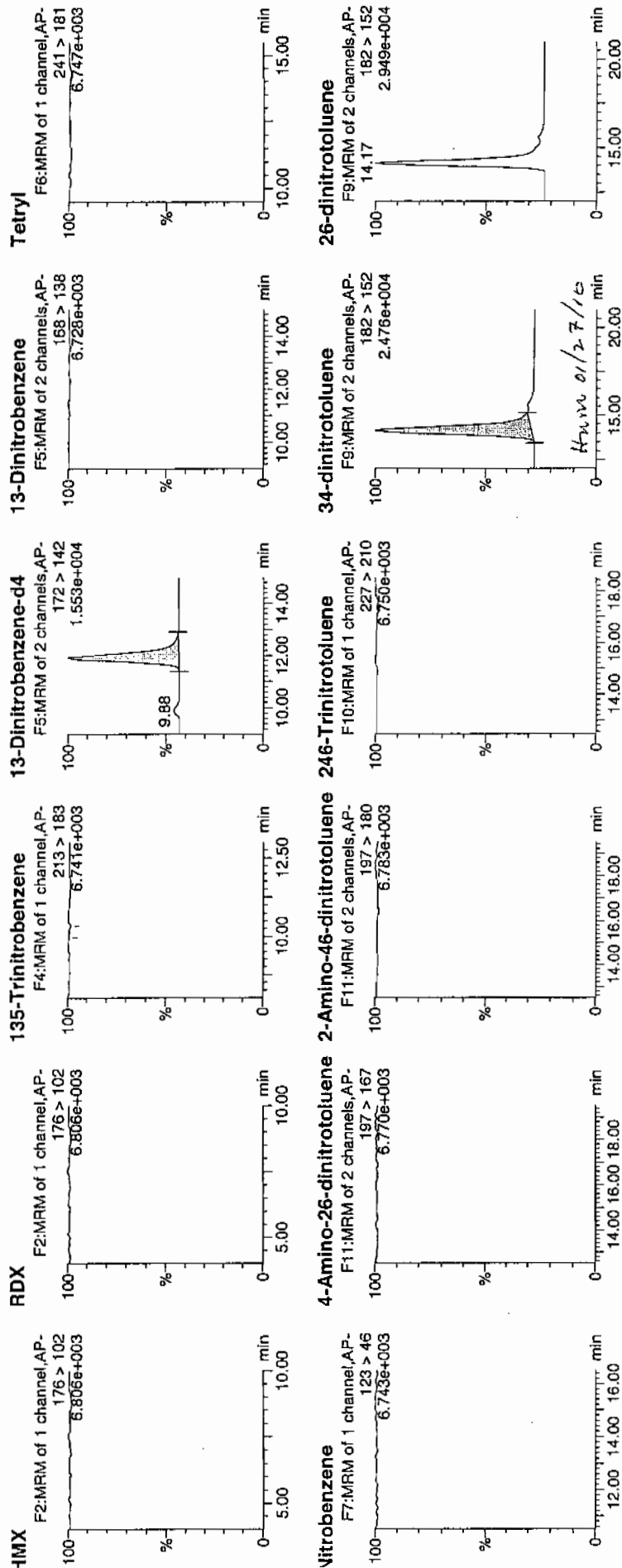
D: 244126011

/al: 3:3,C

100%
1/27/10

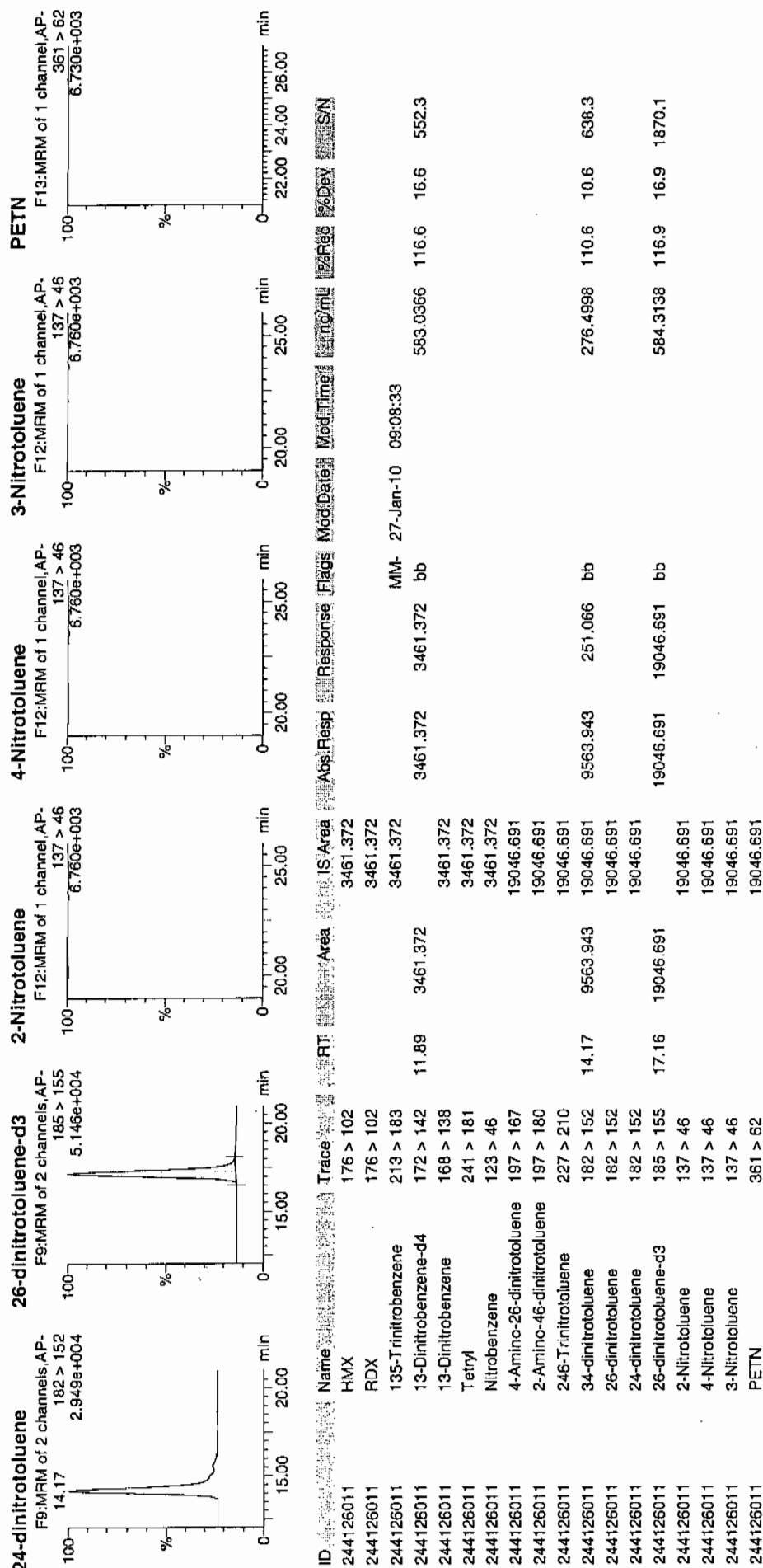
LANU 940074 / 8022 / 21

Page 214 of 556



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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7649

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220031.wiff

Date Analyzed: 22-JAN-10 18:16

Units: ug/kg

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

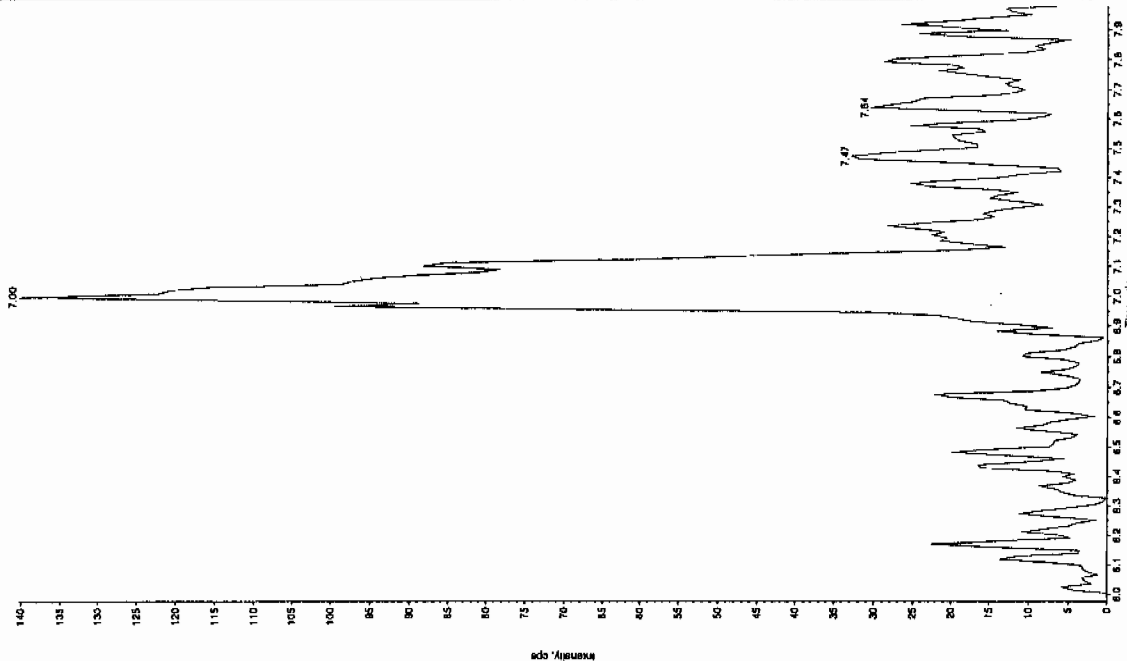
*Concentration =

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

Run 112510

Sample Name: 244126011 Sample ID: 94007121ER File: EXS01226031.wiff
 Peak Name: 35-Chloroaniline - Mass(es): 182.0460 amu
 Comment: LCM83212S Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.03 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 6:16:46 PM
 Modified: No

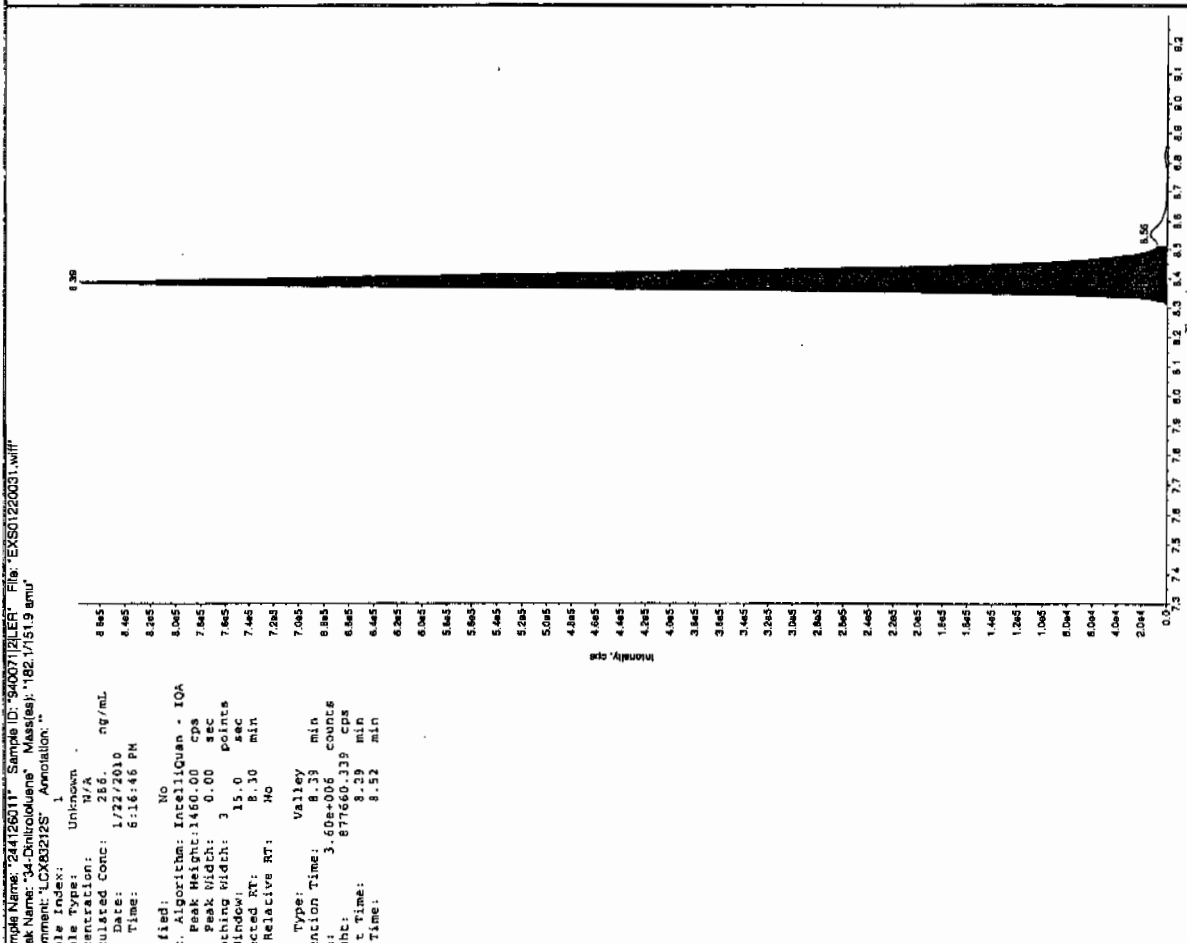
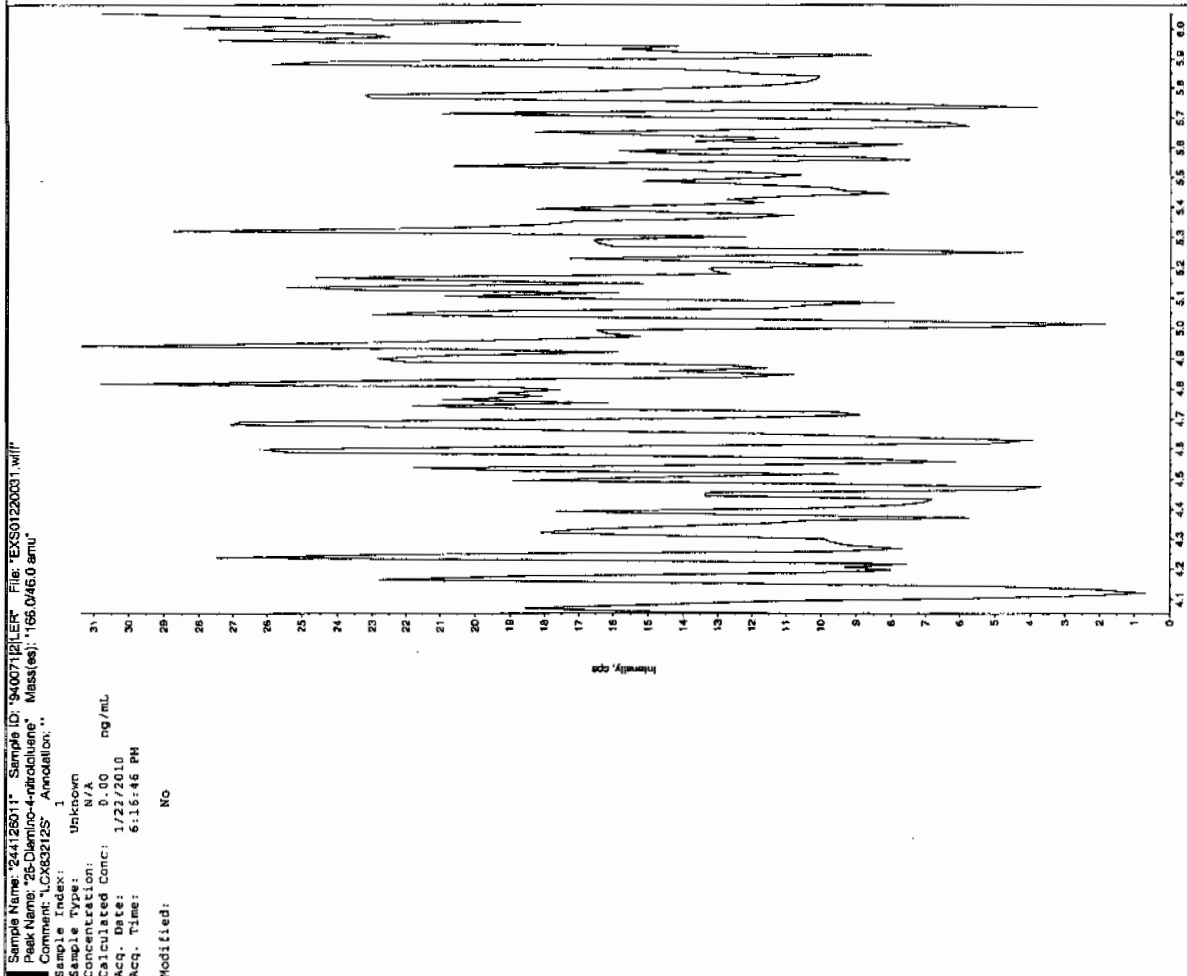


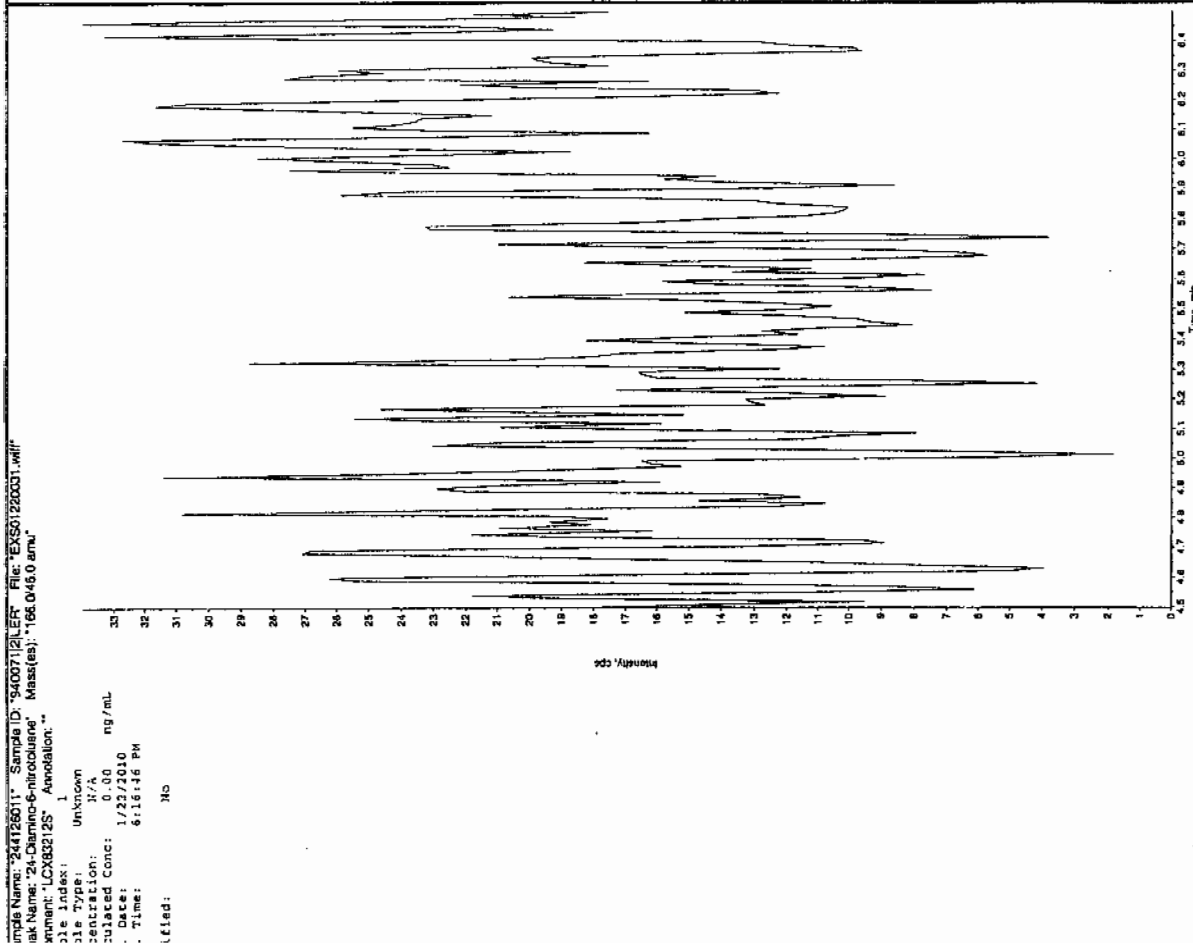
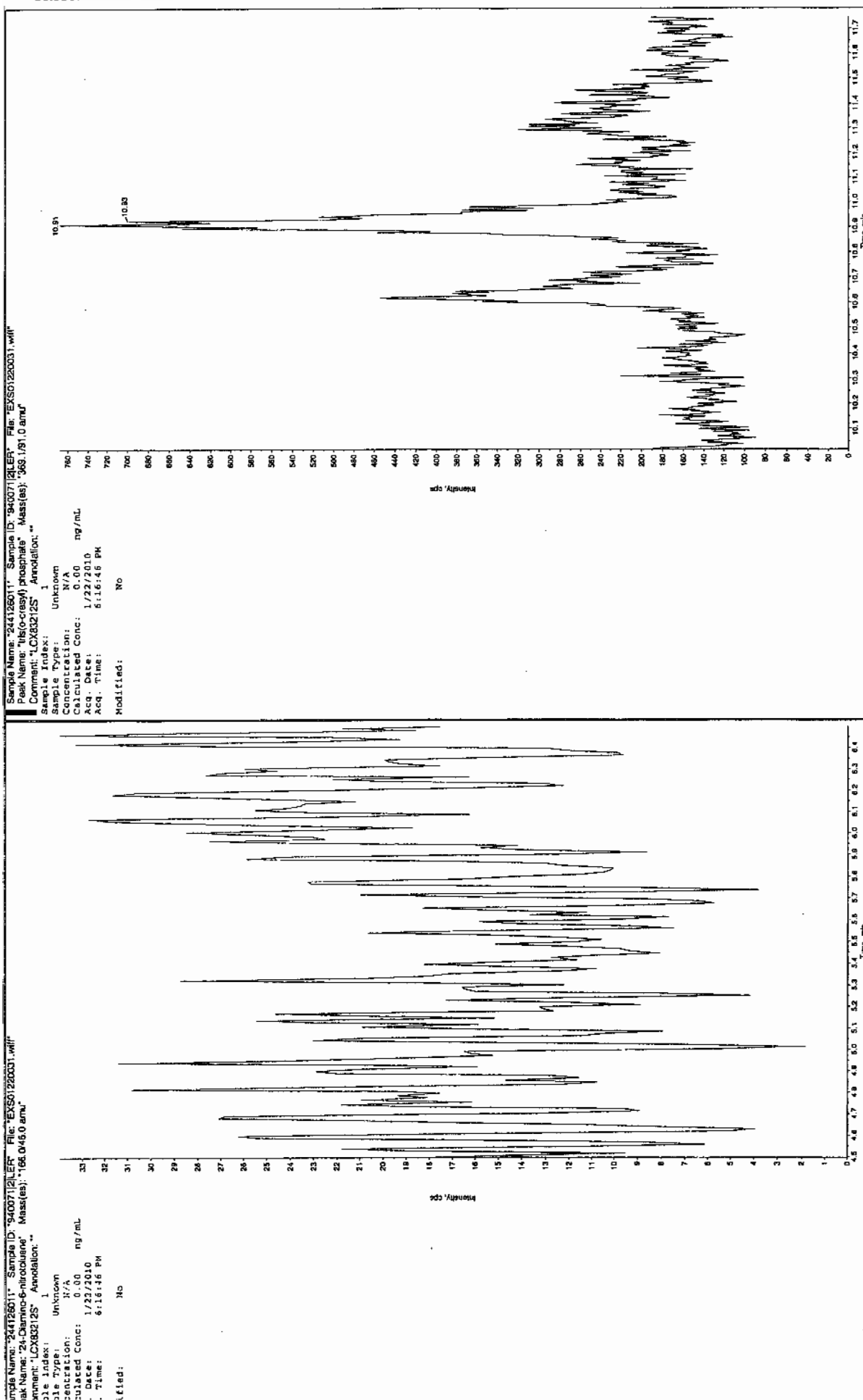
Run 112510

Sample Name: 244126011 Sample ID: 94007121ER File: EXS01226031.wiff
 Peak Name: 35-Chloroaniline - Mass(es): 182.0460 amu
 Comment: LCM83212S Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.03 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 6:16:46 PM
 Modified: No

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





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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7650

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125055a

Date Analyzed: 26-JAN-10 13:54

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125055a

Date: 26-Jan-2010

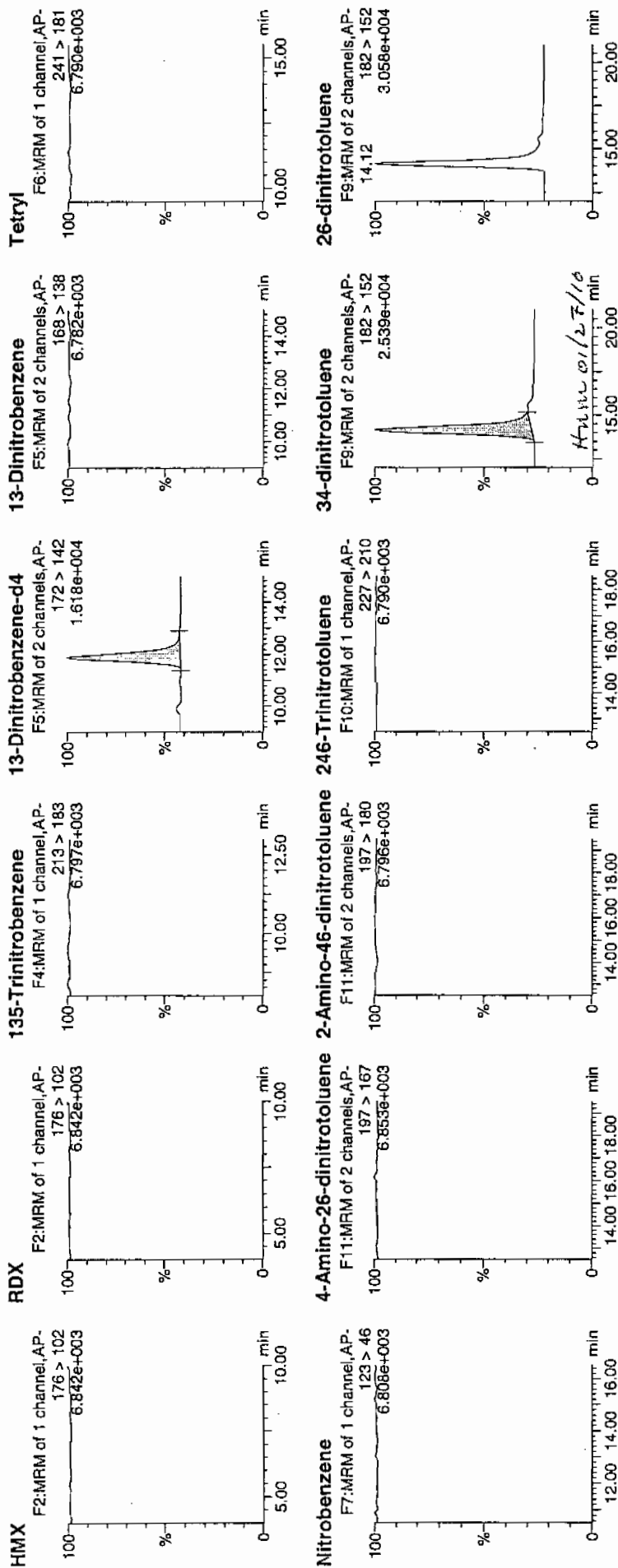
Time: 13:54:04

ID: 244126012

Vital: 3:3,D

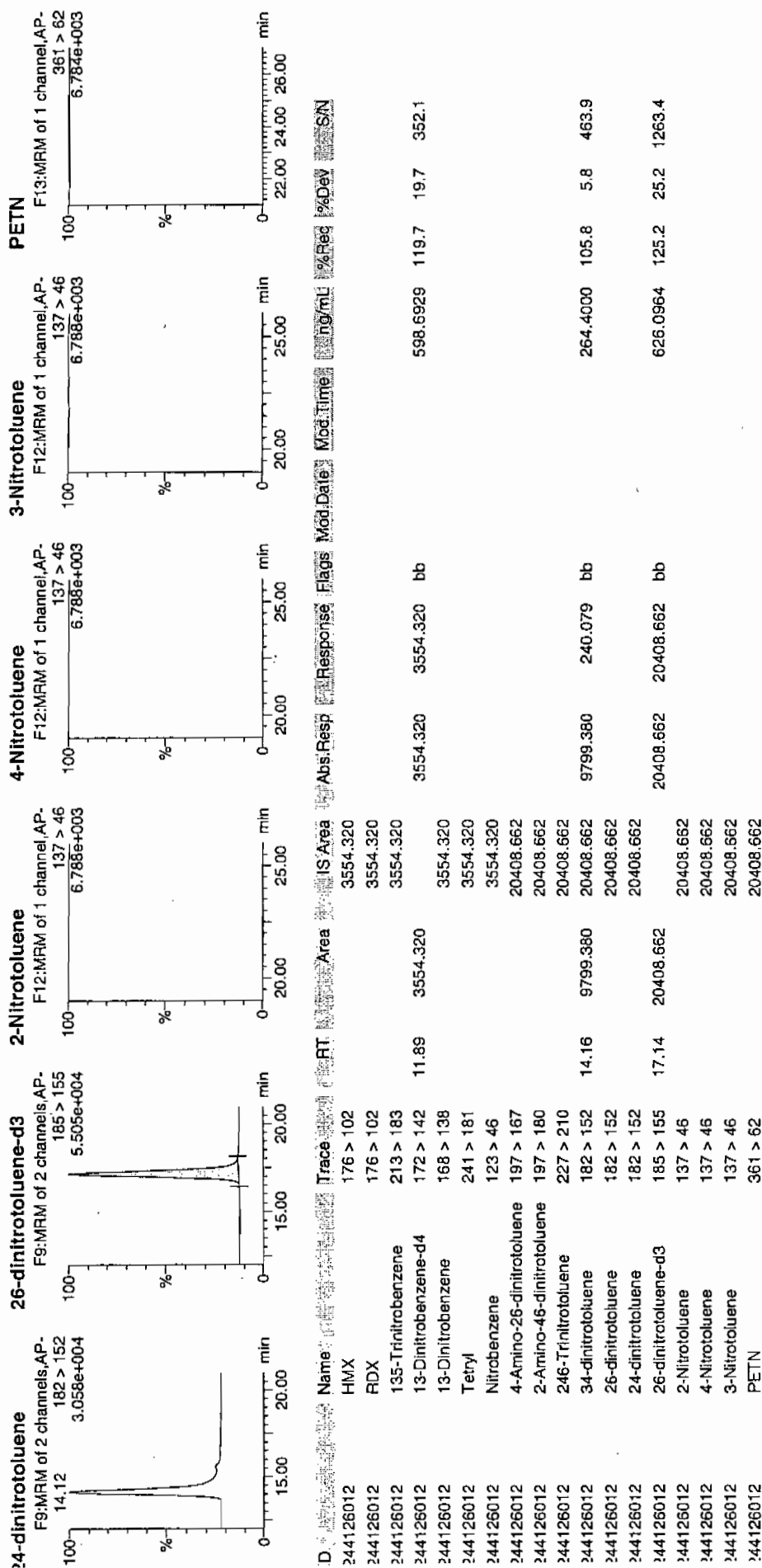
Not
1/27/10

94071 / 8000 / 21



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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7650

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220032.wiff

Date Analyzed: 22-JAN-10 18:32

Units: ug/kg

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

*Concentration =

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

Jan 1125110

Sample Name: "244126012" Sample ID: "94007121ER" File: "EX501220032.wif"

Peak Name: "ATB" Mass(es): "257.27204.9 amu"

Comment: "LCX53212S" Annotation: "

Sample Index: 1

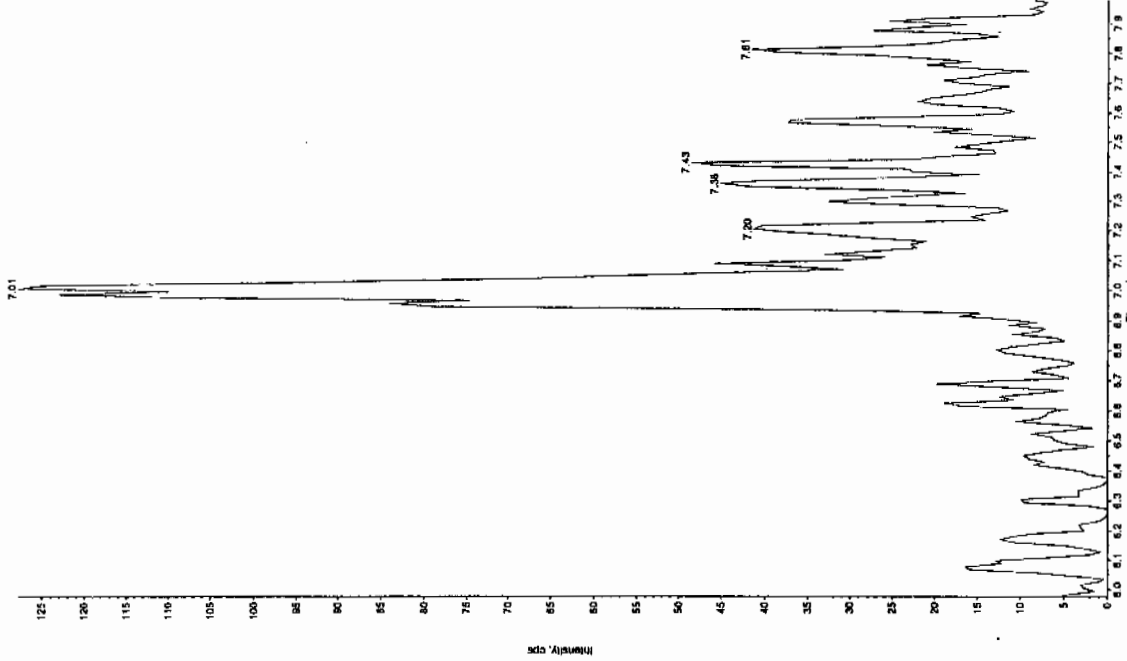
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 1/22/2010

Acq. Time: 6:32:28 PM

Modified: No



Sample Name: "244126012" Sample ID: "94007121ER" File: "EX501220032.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX53212S" Annotation: "

Sample Index: 1

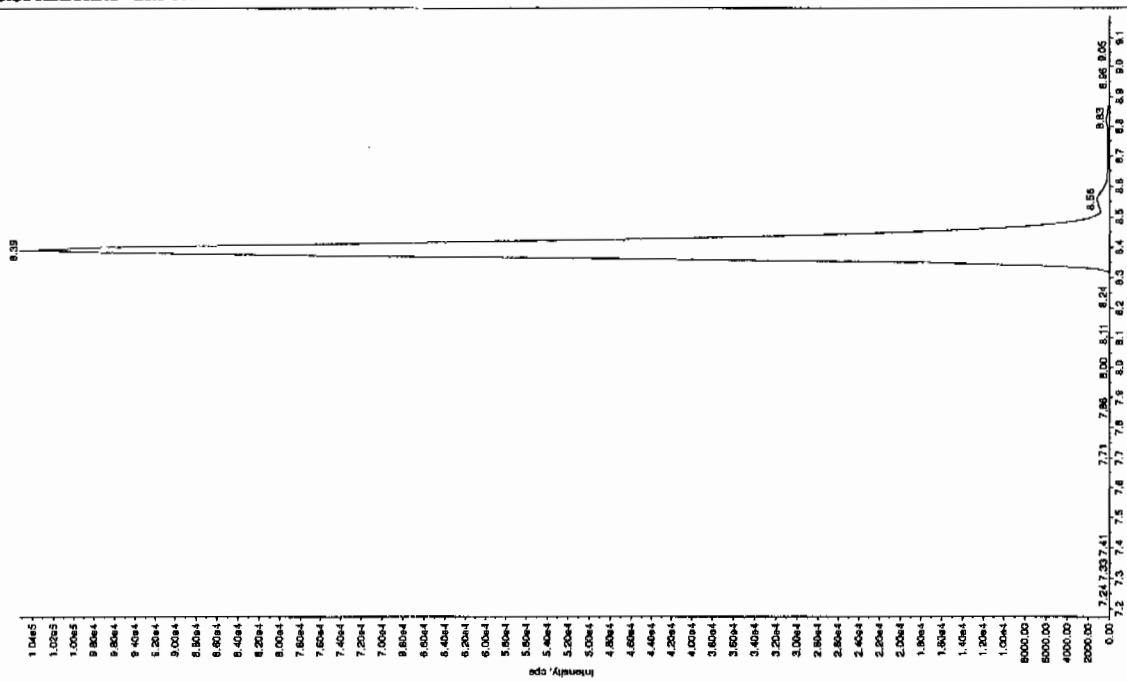
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 1/22/2010

Acq. Time: 6:32:28 PM

Modified: No



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

35-Dinitroaniline

Sample Name: "244125012" Sample ID: "94007121" File: "EX501220032.wif"

Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "196.046.0 amu"

Comment: "LCX832125" Annotation: "

File Index: 1

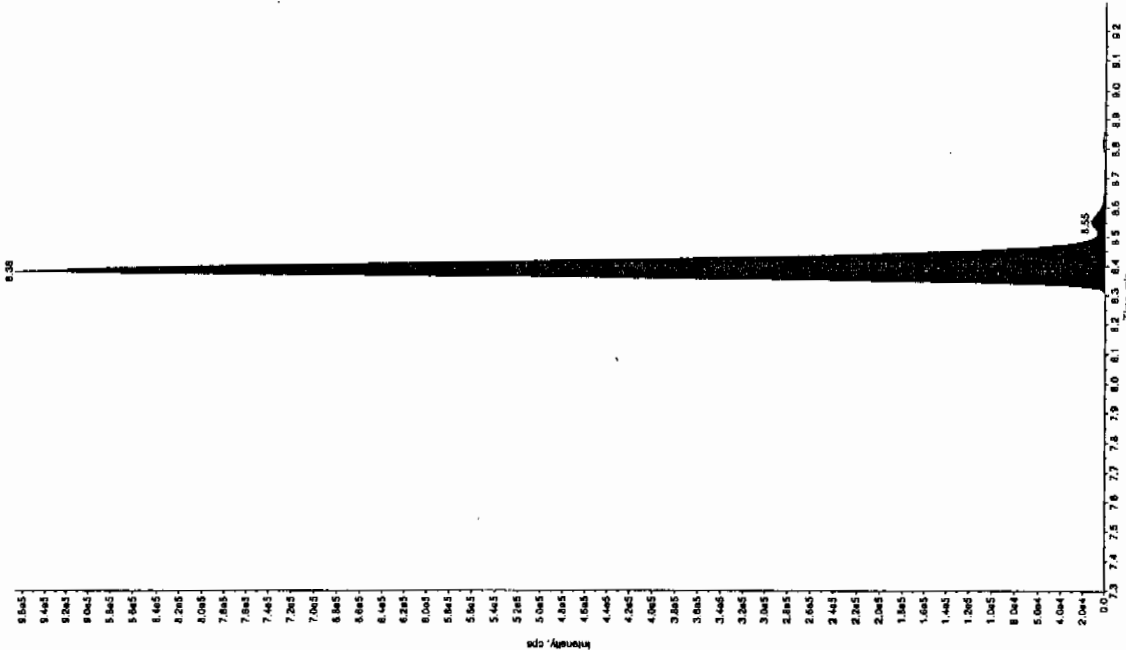
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 1/22/2010

Acq. Time: 6:32:28 PM

Modified: No



Sample Name: "244125012" Sample ID: "94007121" File: "EX501220032.wif"

Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "196.046.0 amu"

Comment: "LCX832125" Annotation: "

File Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 1/22/2010

Acq. Time: 6:32:28 PM

Modified: No

File Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 1/22/2010

Acq. Time: 6:32:28 PM

Modified: No

File Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

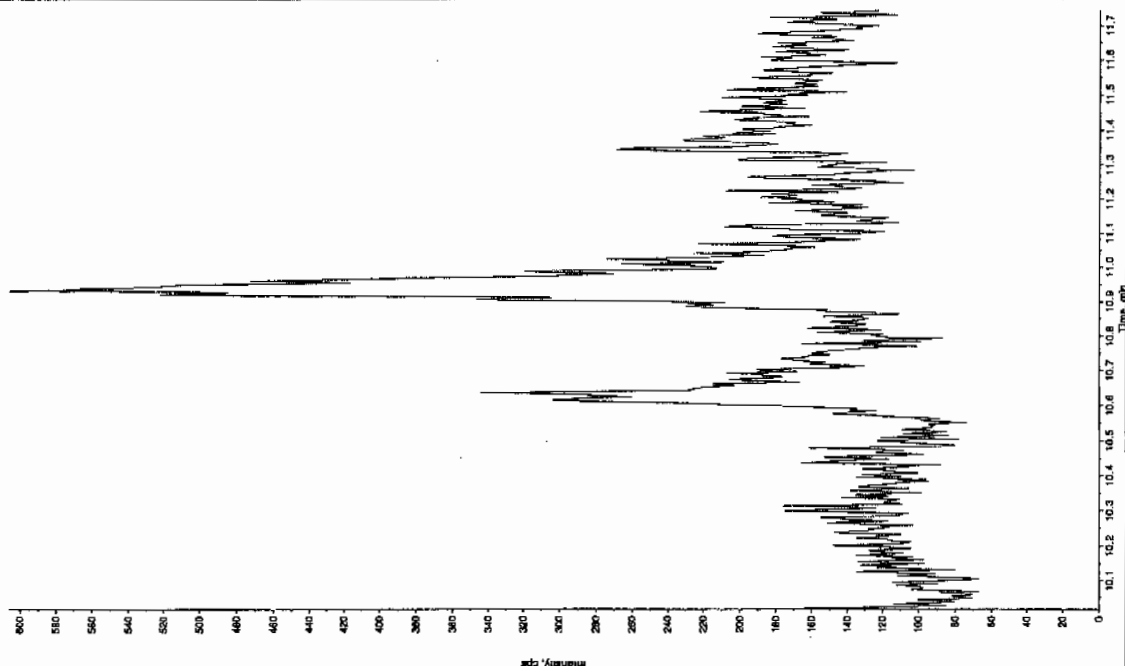
Acq. Date: 1/22/2010

Acq. Time: 6:32:28 PM

Modified: No

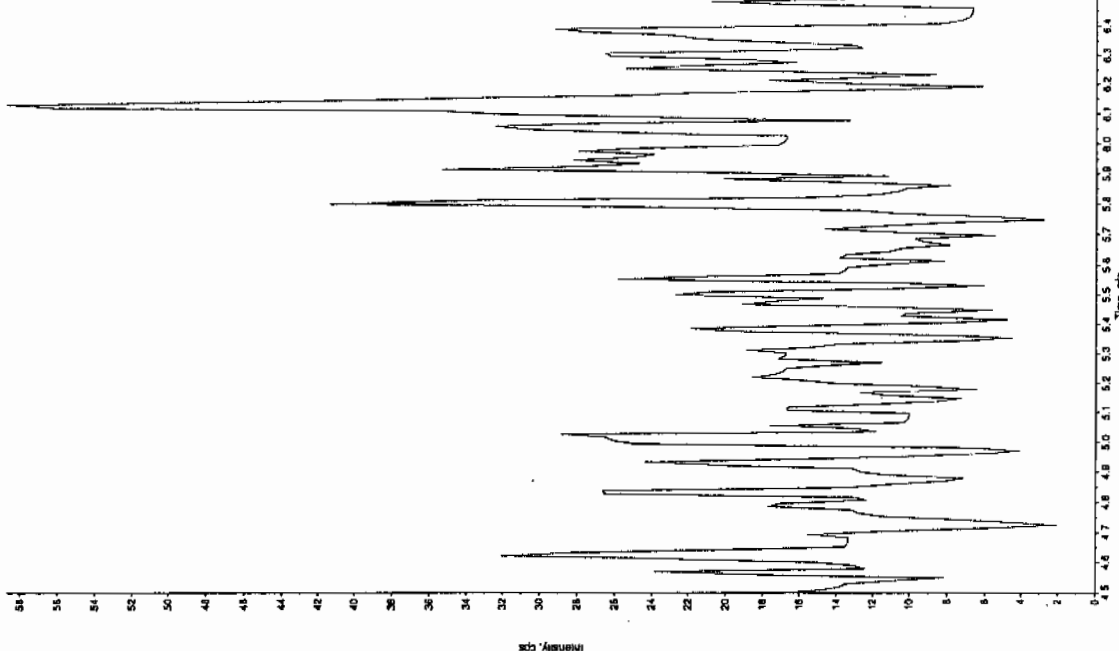
Sample Name: "244126012" Sample ID: "94007121ER" File: "EX501220032.wif"
 Peak Name: "1,1,1,1-tetrahydro-2H-pyridine-2-thione" Mass(es): "353.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 6:32:28 PM
 Modified: No



Sample Name: "244126012" Sample ID: "94007121ER" File: "EX501220032.wif"
 Peak Name: "1,1,1,1-tetrahydro-2H-pyridine-2-thione" 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: 1/22/2010
 Acq. Time: 6:32:28 PM
 Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7641

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125056a

Date Analyzed: 26-JAN-10 14:23

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125056a

Date: 26-Jan-2010

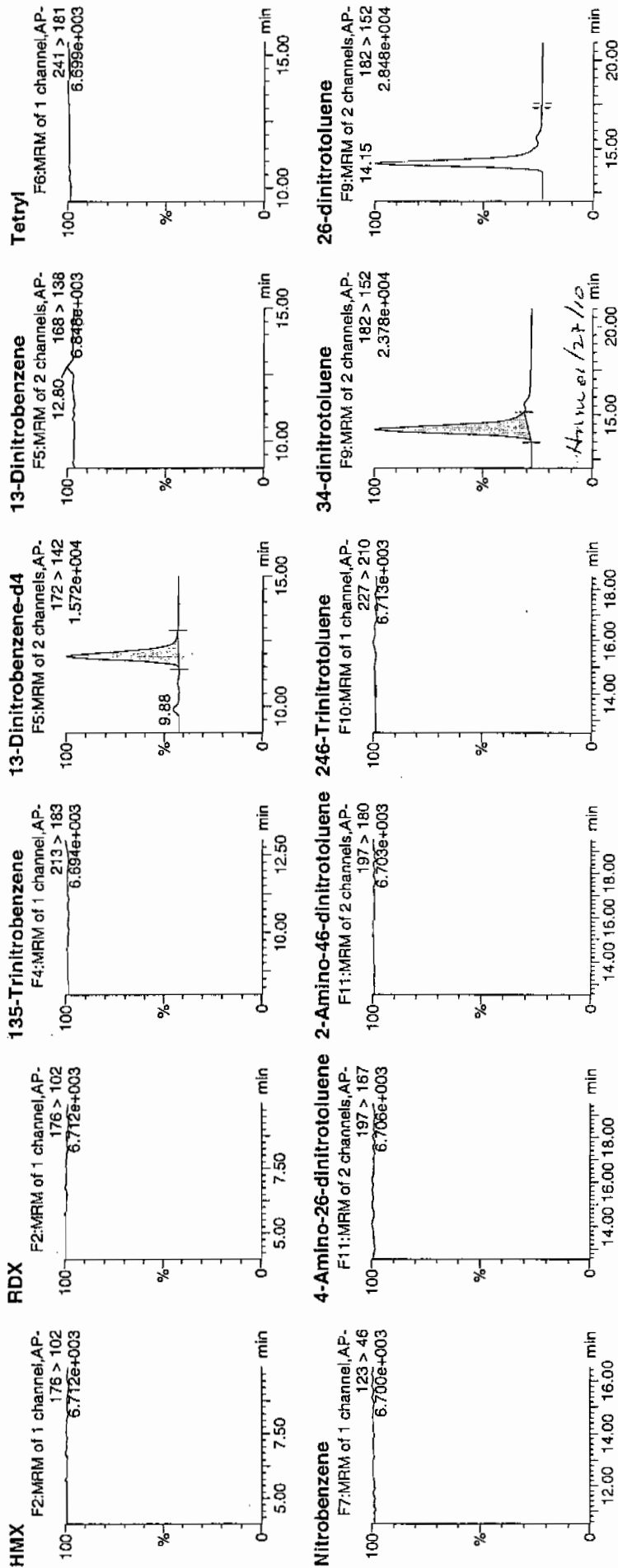
Time: 14:23:32

ID: 244126013

Vial: 3:3,E

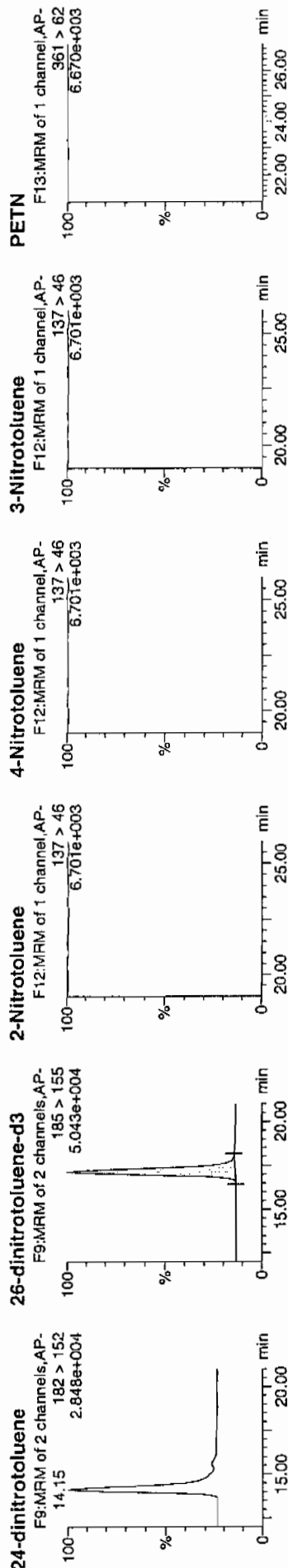
1647
1/27/10

WAW 940071 / 8022 / 2 /



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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N
244126013	HMX	176 > 102		3489.437									
244126013	RDX	176 > 102		3489.437									
244126013	135-Trinitrobenzene	213 > 183		3489.437									
244126013	13-Dinitrobenzene-d4	172 > 142	11.89	3489.437		3489.437	bb			587.7639	117.6	17.6	387.6
244126013	13-Dinitrobenzene	168 > 138		3489.437									
244126013	Tetryl	241 > 181		3489.437									
244126013	Nitrobenzene	123 > 46		3489.437									
244126013	4-Amino-26-dinitrotoluene	197 > 167		18377.416									
244126013	2-Amino-46-dinitrotoluene	197 > 180		18377.416									
244126013	246-Trinitrotoluene	227 > 210		18377.416									
244126013	34-dinitrotoluene	182 > 152	14.15	9284.929		9284.929	bb	MM- 27-Jan-10	09:15:35	278.2092	111.3	11.3	292.3
244126013	26-dinitrotoluene	182 > 152		18377.416									
244126013	24-dinitrotoluene	182 > 152		18377.416									
244126013	26-dinitrotoluene-d3	185 > 155	17.15	18377.416			bb			563.7819	112.8	12.8	1524.4
244126013	2-Nitrotoluene	137 > 46		18377.416									
244126013	4-Nitrotoluene	137 > 46		18377.416									
244126013	3-Nitrotoluene	137 > 46		18377.416									
244126013	PETN	361 > 62		18377.416									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7641

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220033.wiff

Date Analyzed: 22-JAN-10 18:48

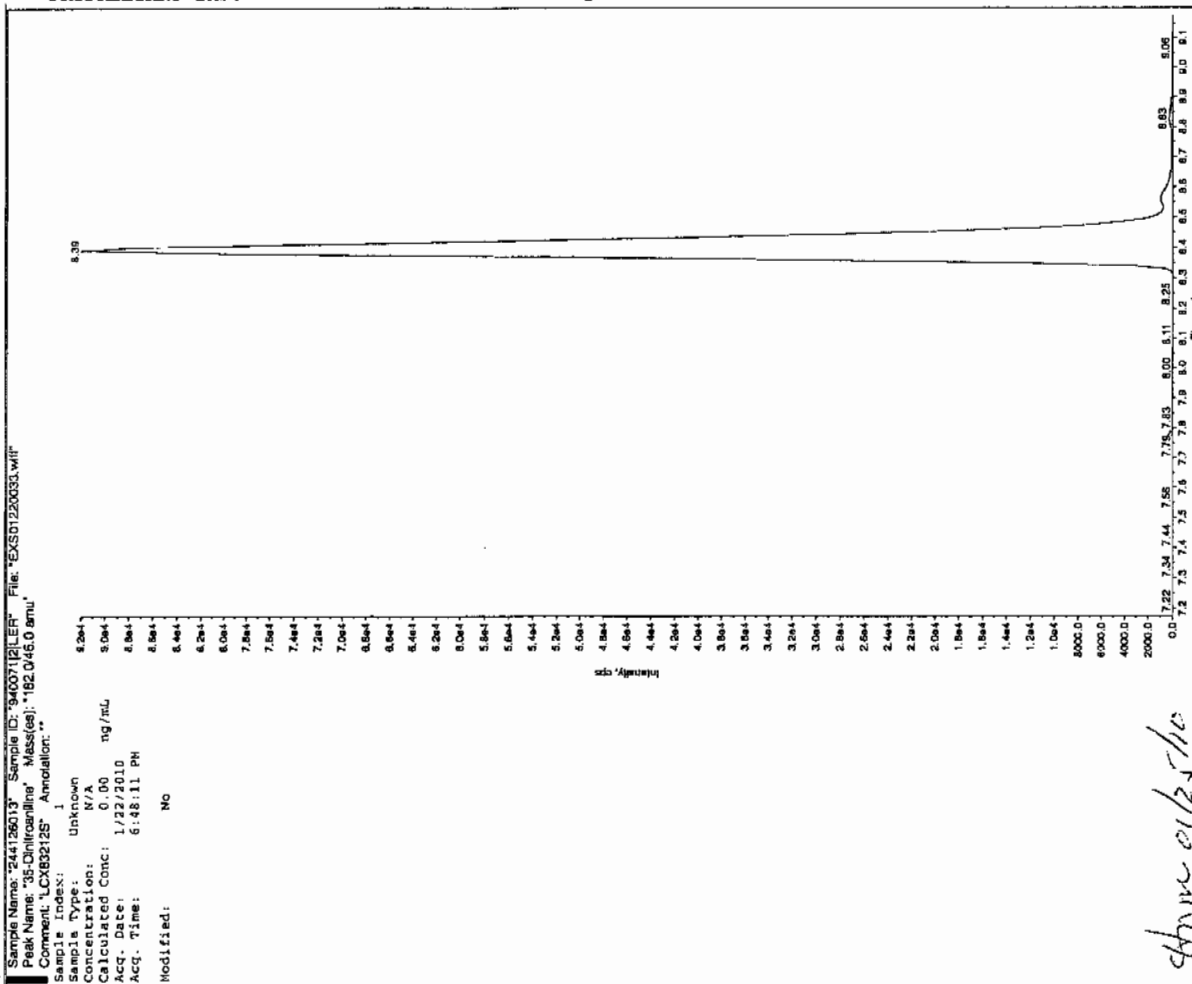
Units: ug/kg

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

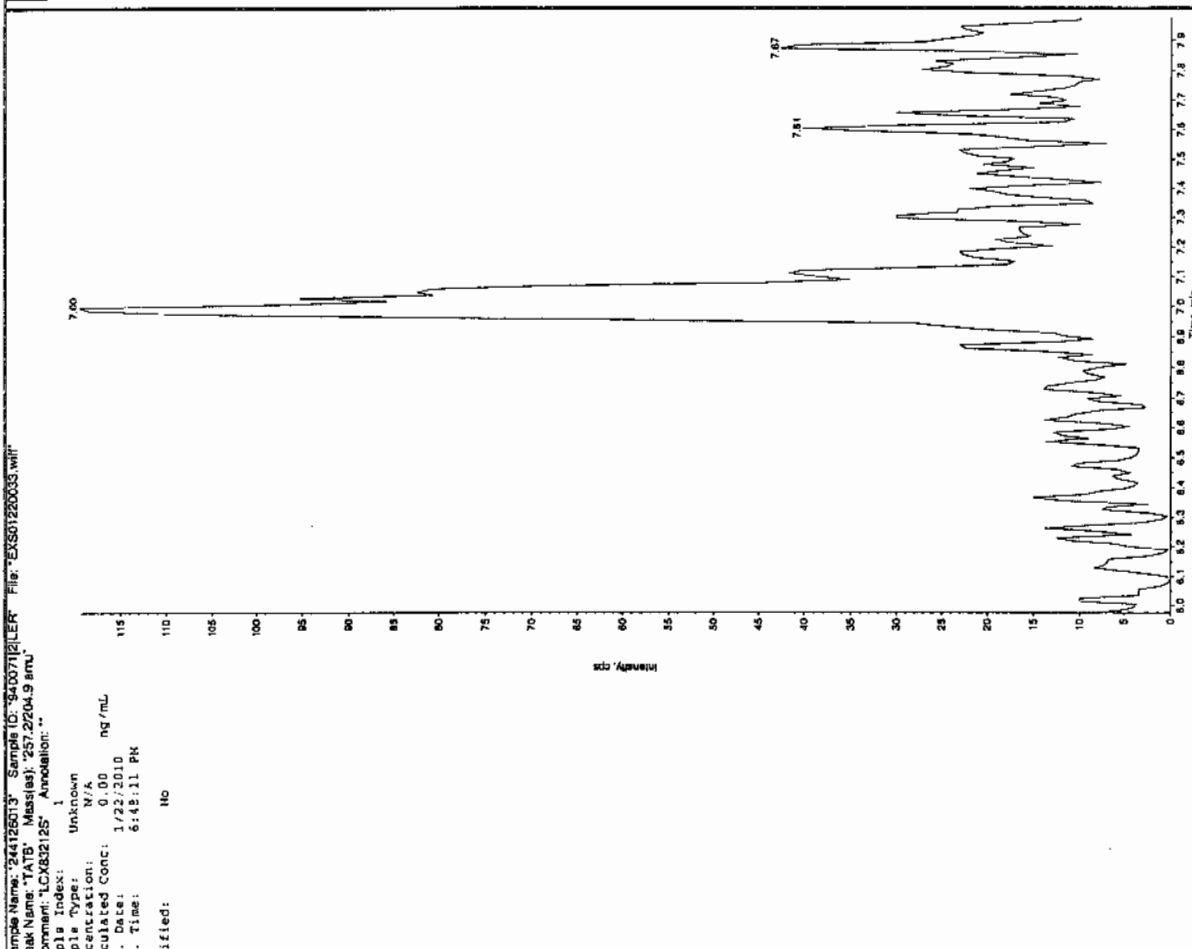
*Concentration =

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

LC 1125/10



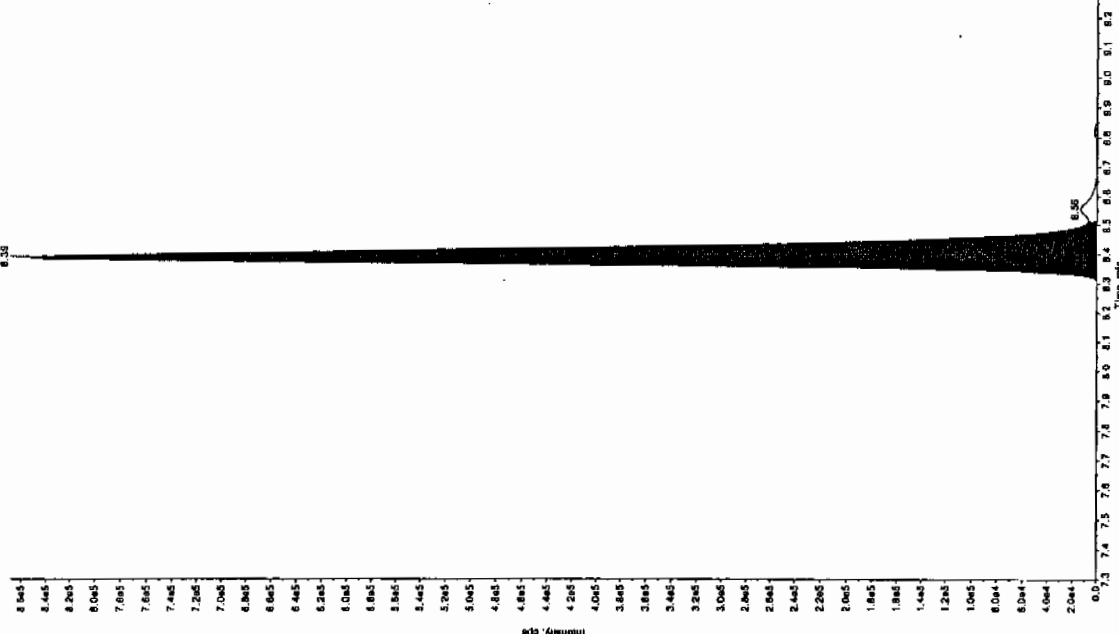
LC 1125/10



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

Sample Name: "244126013" Sample ID: "94007121ER" File: "EX501220033.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCX832125" Annotation: ""

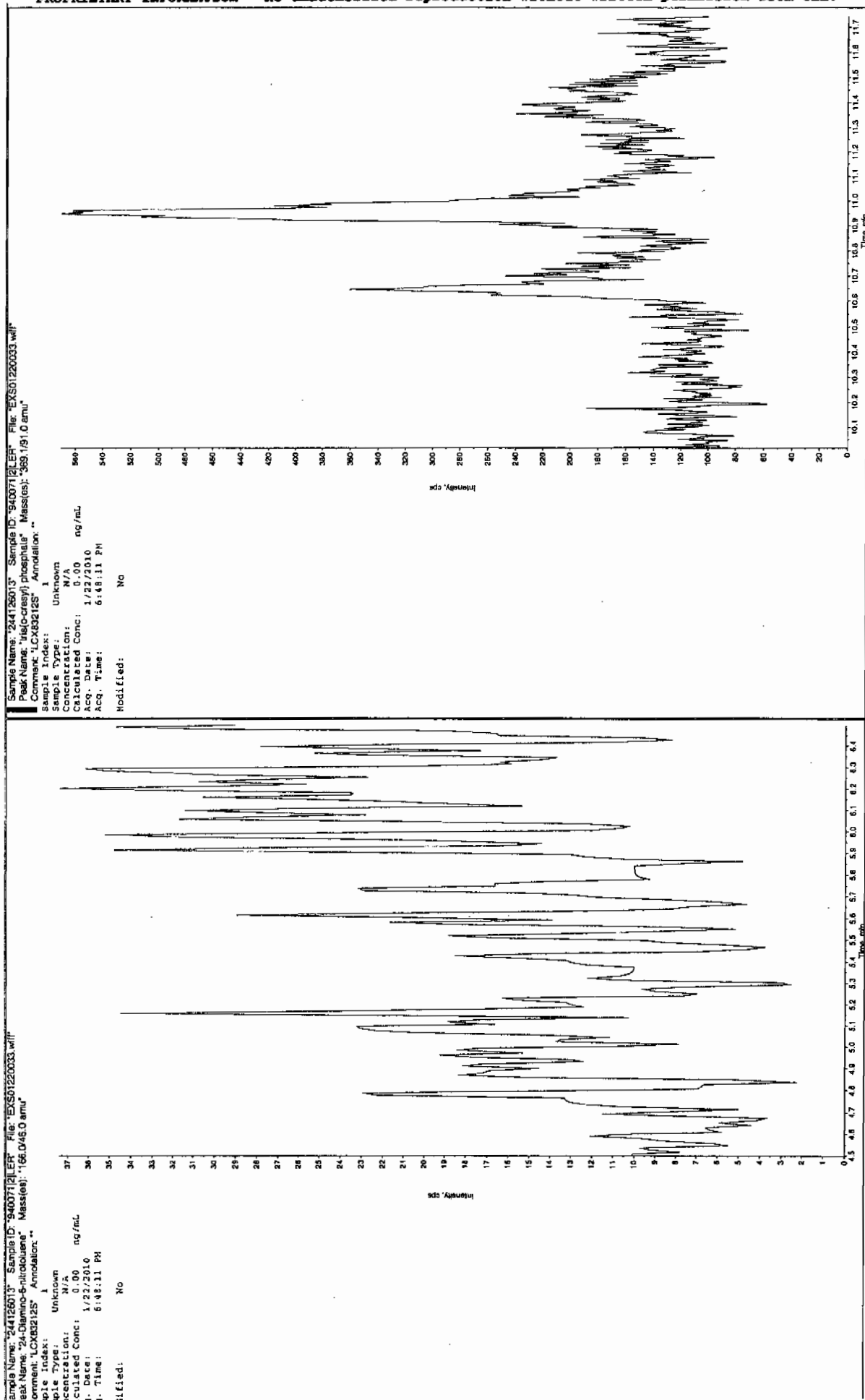
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 6:48:11 PM
 Modified: No



Sample Name: "244126013" Sample ID: "94007121ER" File: "EX501220033.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1519 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 274. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 6:48:11 PM
 Modified: No
 Acquisition: In-cell/Quan - IQA
 Peak Height: 1460.00 cps
 Peak Width: 3.00 sec
 Pointing Width: 3.00 points
 Window: 15.0 sec
 Selected RT: 8.30 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.33 min
 Area: 3.43e+006 counts
 Height: 868418.640 cps
 Wrt Time: 8.29 min
 Time: 8.52 min

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



EL SOP GL-0A-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7643

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125057a

Date Analyzed: 26-JAN-10 14:53

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

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0125057a

Date: 26-Jan-2010

Time: 14:53:00

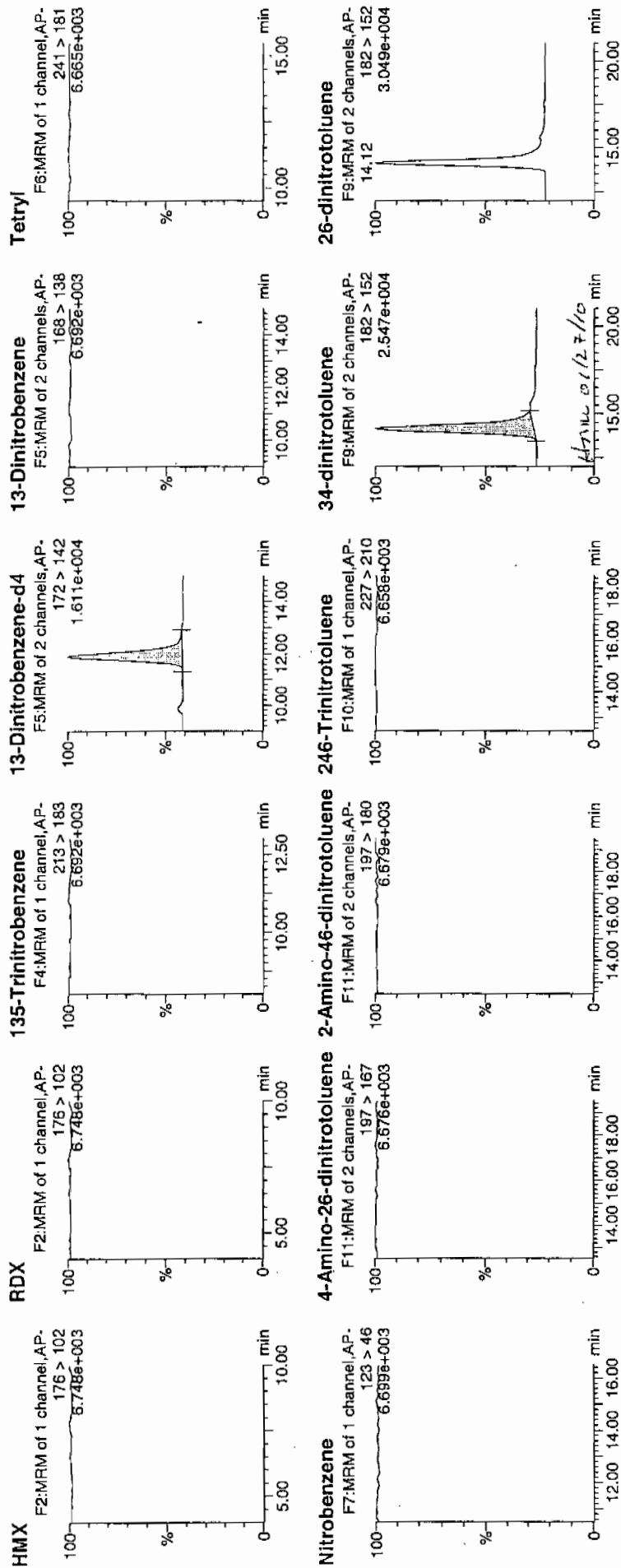
ID: 244126014

Vital: 3:3.F

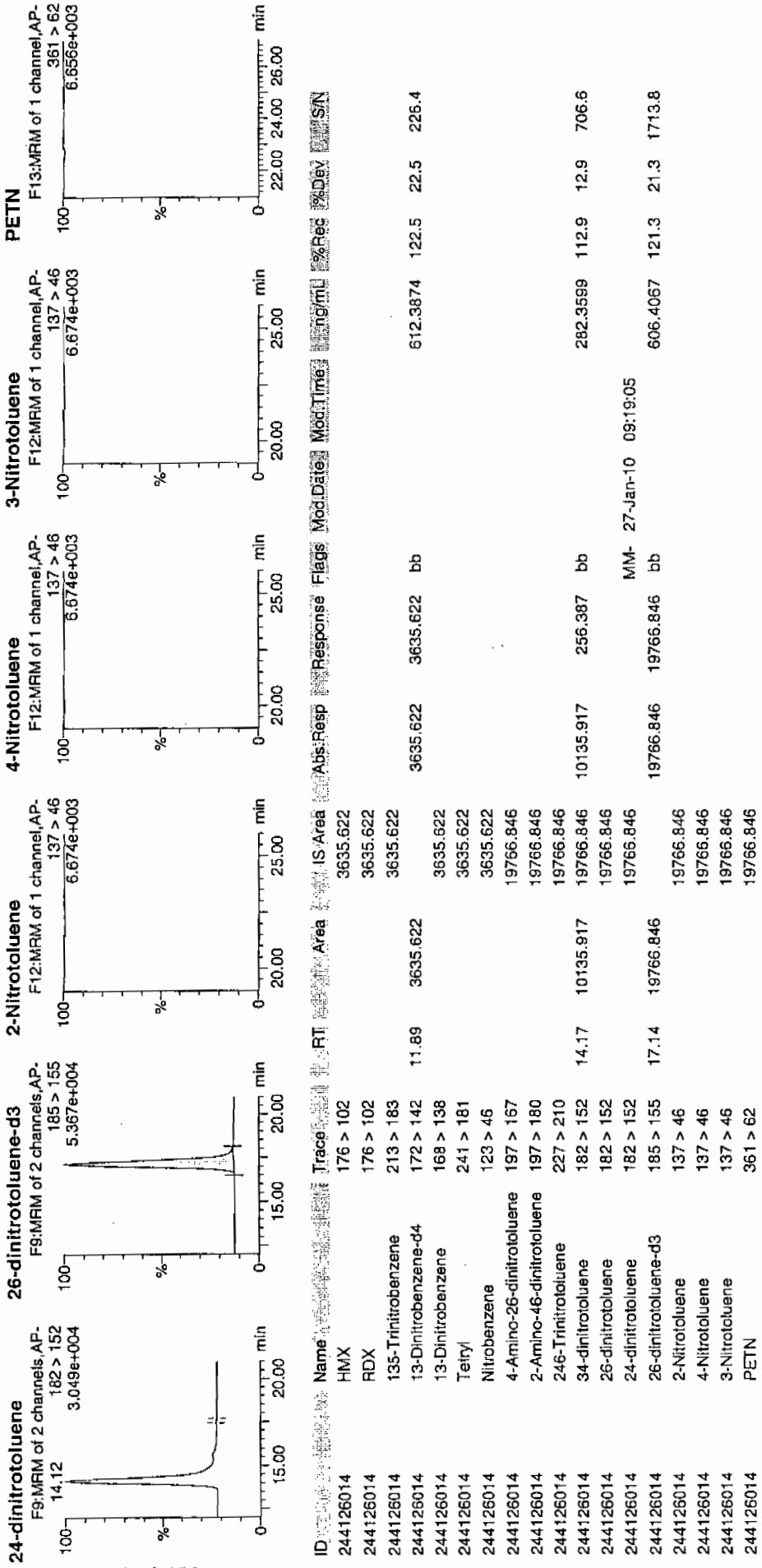
12/7/10

vanu/940074 / 8042 / 21

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Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qid, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7643

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220034.wiff

Date Analyzed: 22-JAN-10 19:03

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

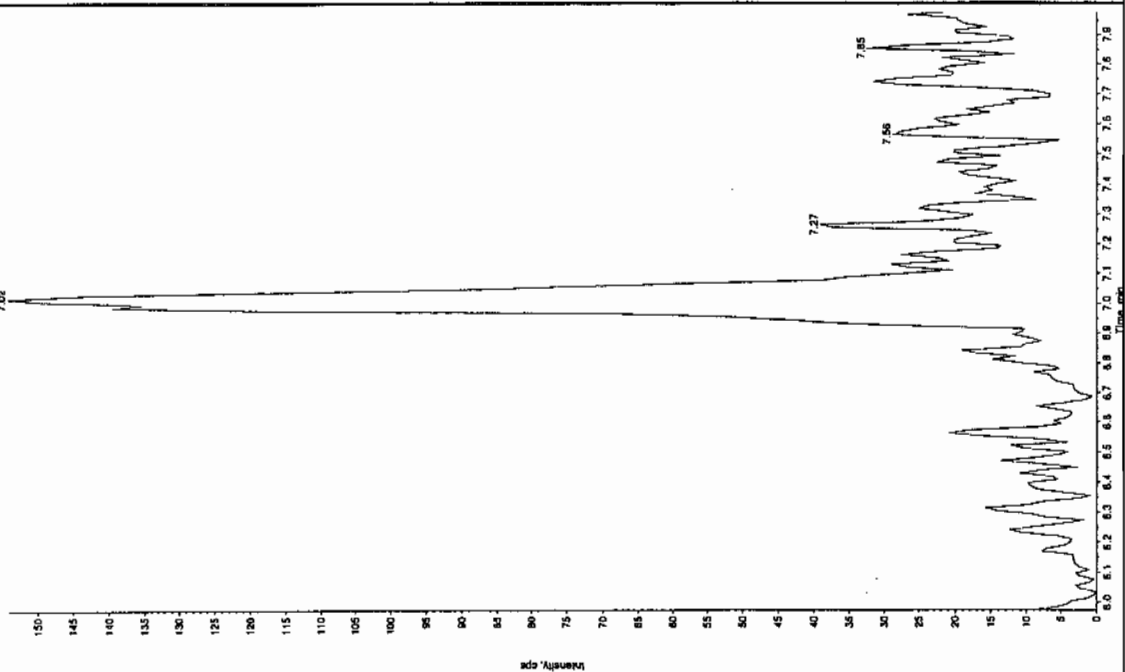
*Concentration =

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

See 1/25/10

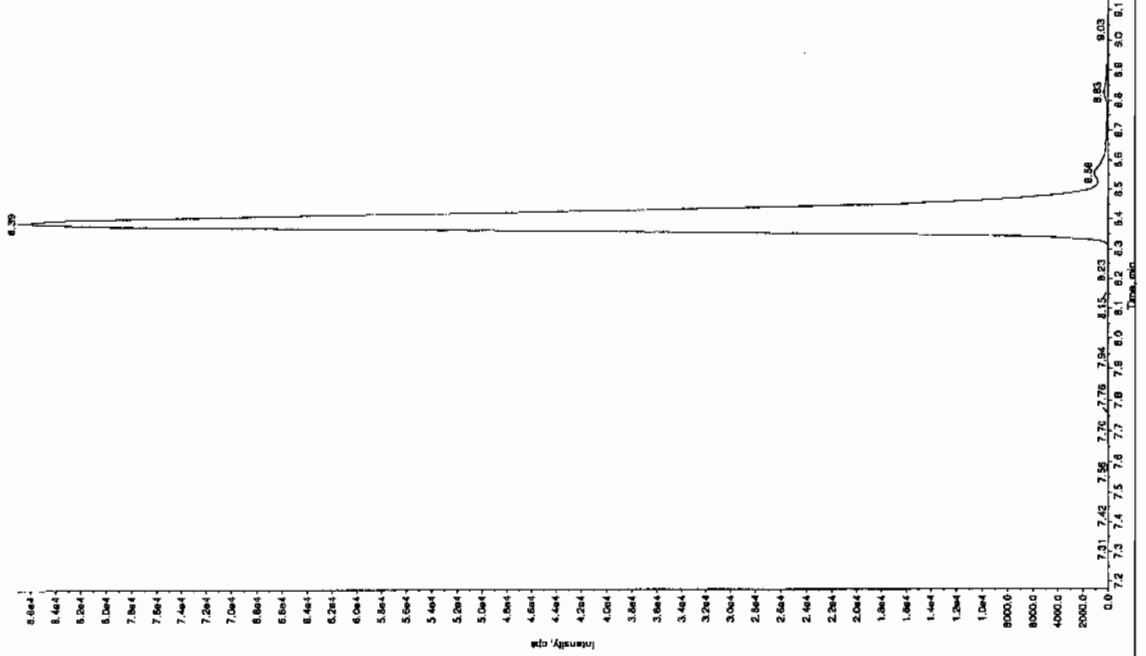
Sample Name: "244126014" Sample ID: "940071JLIER" File: "EX501220034.will"
 Peak Name: "TATE" Mass(es): "267.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 1/22/2010
 Acq. Time: 7:03:52 PM
 Modified: No



Sample Name: "244126014" Sample ID: "940071JLIER" File: "EX501220034.will"
 Peak Name: "35-Dinitrocellulose" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 1/22/2010
 Acq. Time: 7:03:52 PM
 Modified: No



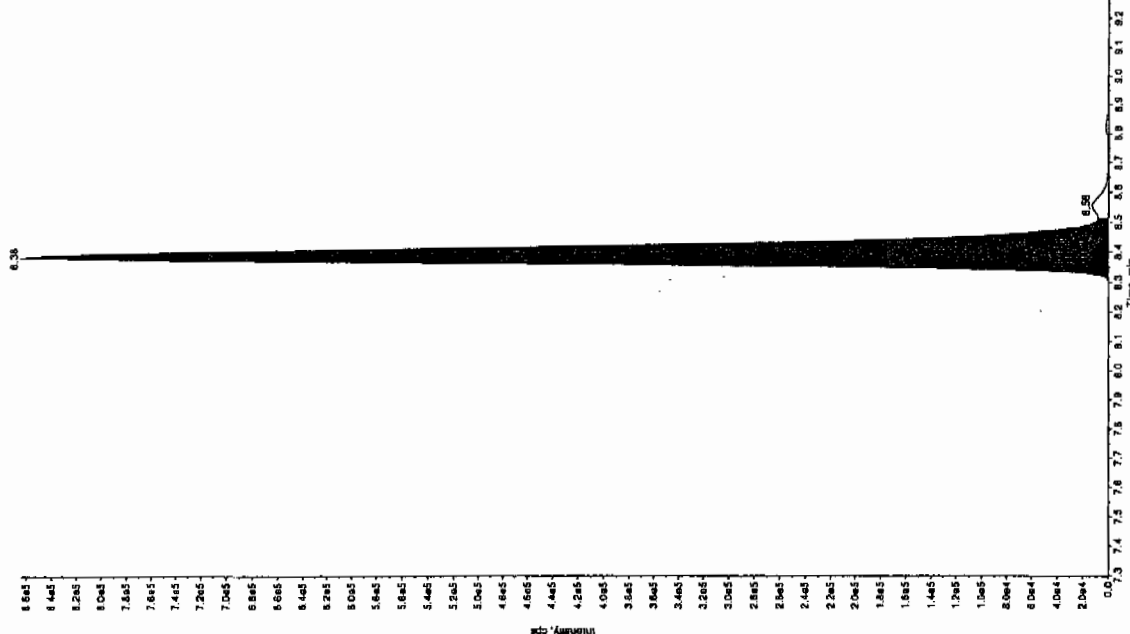
thru 6/12/10

Sample Name: "244126014" Sample ID: "94007121ER" File: "EX501220034.wif"

Peak Name: "26-Diethyl-4-nitrobenzene" Mass(es): "162.0761.9 amu"

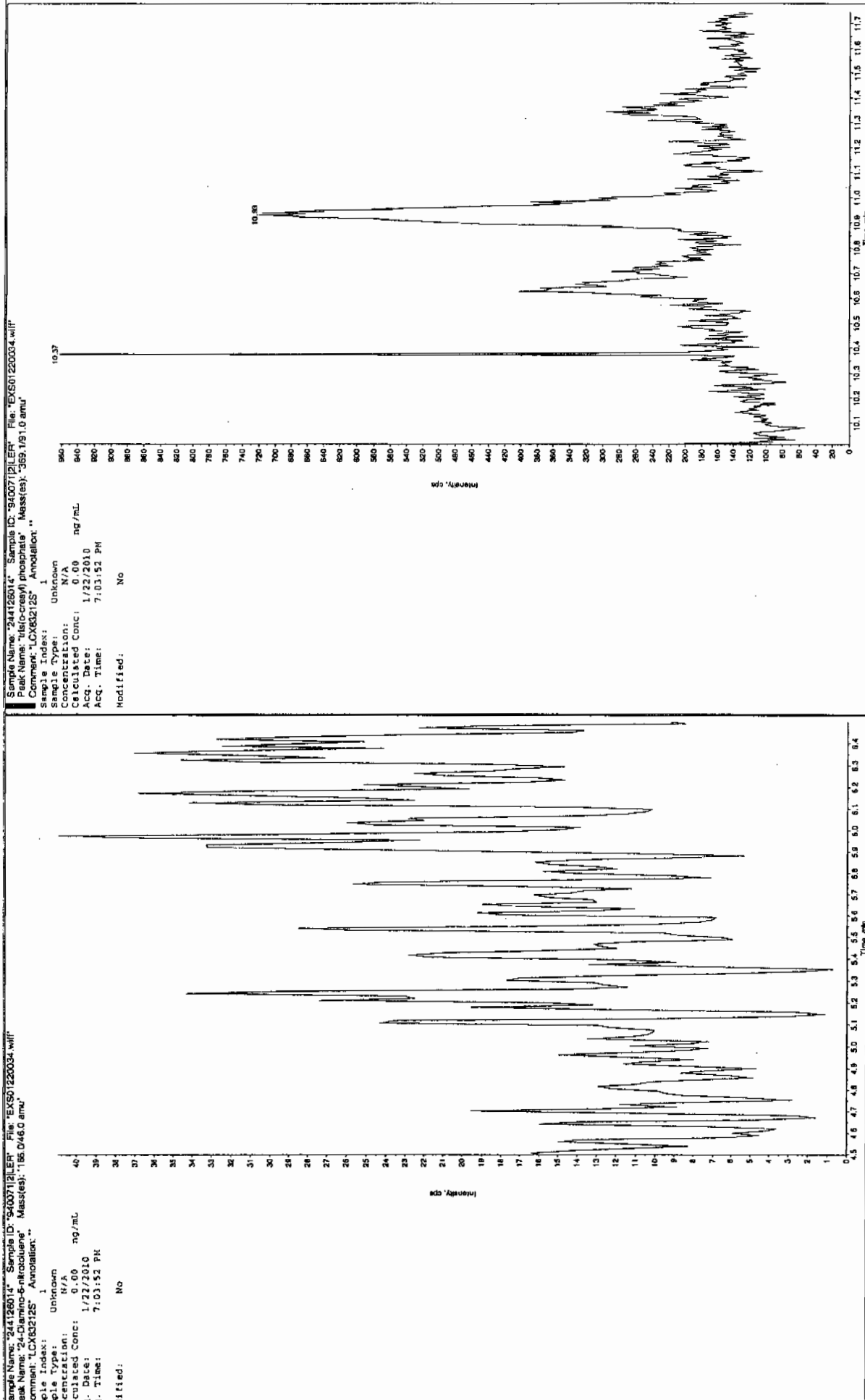
Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 7:03:52 PM
 Modified: No



Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 7:03:52 PM
 Modified: No
 Acquisition: IntellQuan - ICA
 1. Peak Height: 1460.00 cps
 2. Peak Width: 3.00 points
 3. Window: 15.0 sec
 4. Retention Time: 8.30 min
 5. Relative RT: No
 6. Type: Valley
 7. Retention Time: 8.38 min
 8. Signal: 3.51e+006 counts
 9. Light: 864116.223 cps
 10. Art Time: 8.29 min
 11. J Time: 8.52 min

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



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: RE12-10-7640

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125058a

Date Analyzed: 26-JAN-10 15:22

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

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0125058a

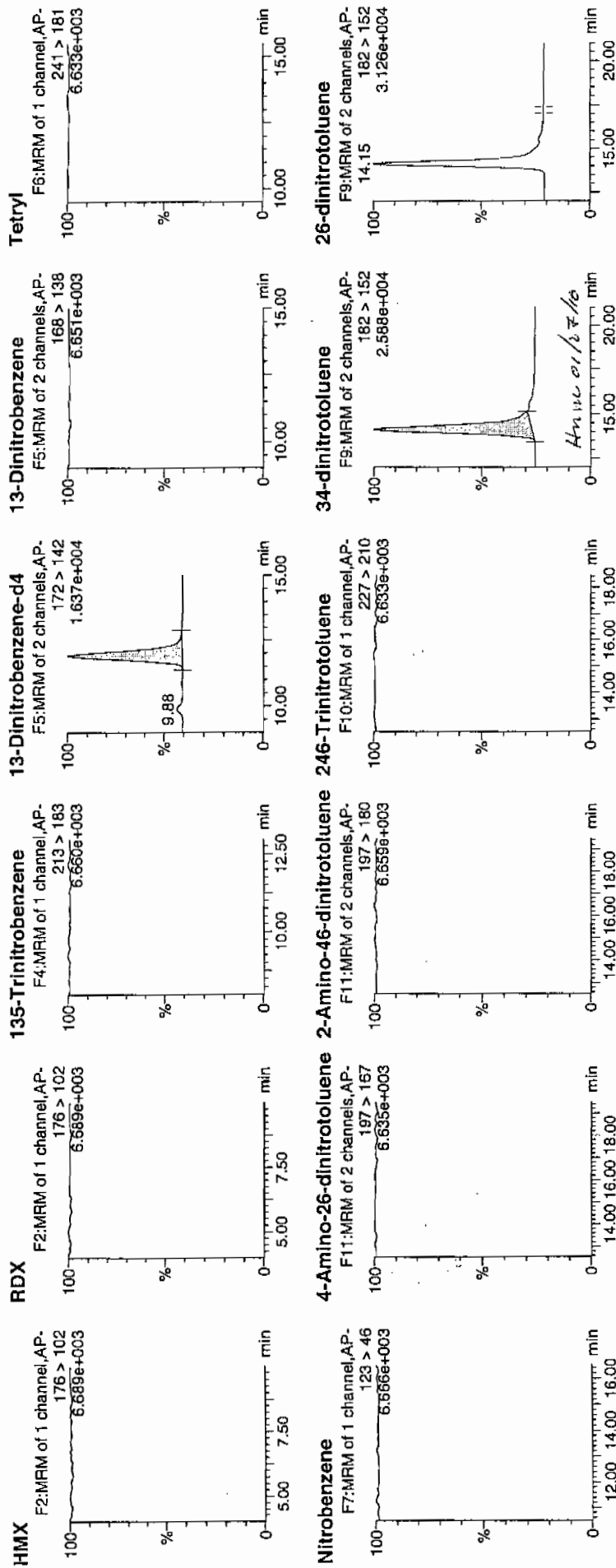
Date: 26-Jan-2010

Time: 15:22:27

ID: 244126015

Vial: 3:4,A

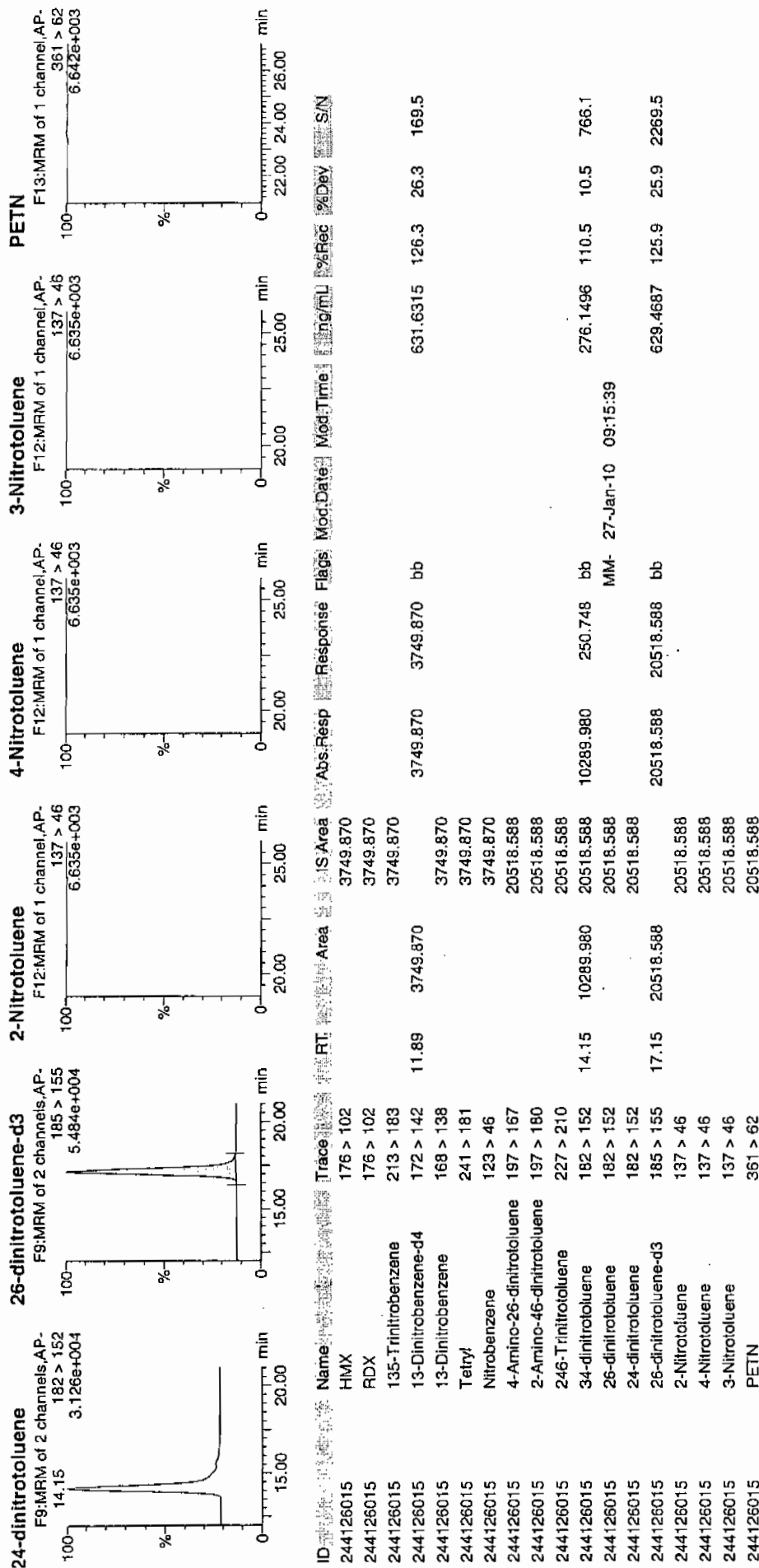
LANC 940071 | 940071 | 21
1/27/10



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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7640

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220035.wiff

Date Analyzed: 22-JAN-10 19:19

Units: ug/kg

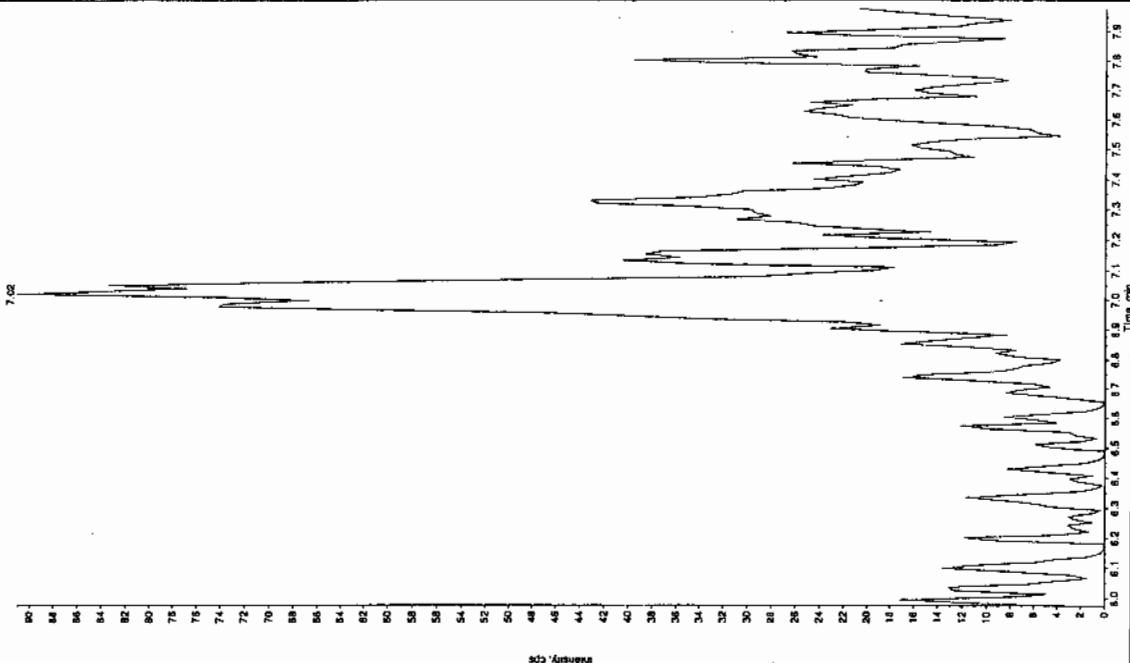
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

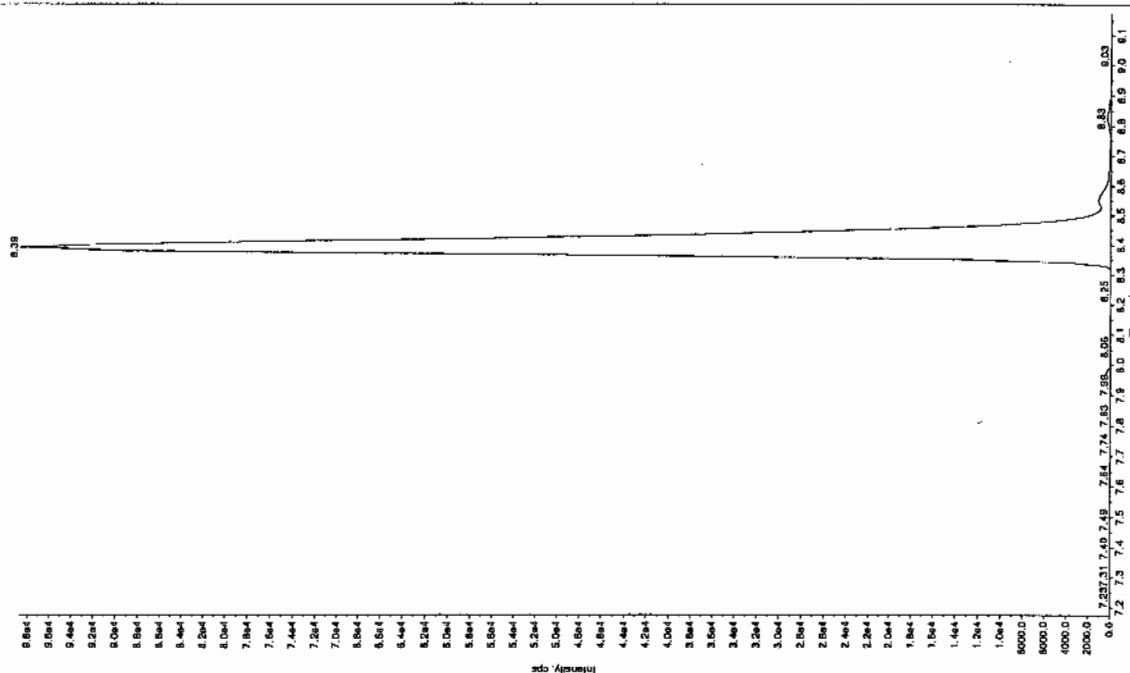
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Run 1125710

Sample Name: 244126015 Sample ID: 94007121ER File: EXSD1220035.wif
 Peak Name: TATB Mass(es): 267.22049 amu
 Comment: LCX832125 Annotation: ..
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 1/22/2010
 Time: 7:19:34 PM
 Modified: No



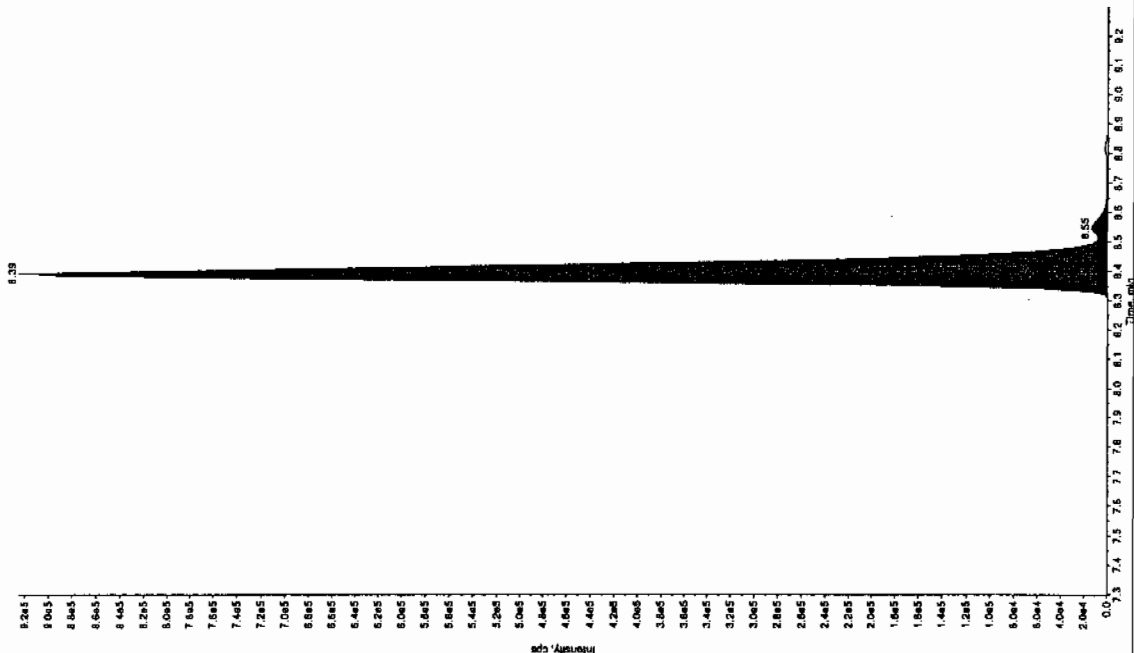
Sample Name: 244126015 Sample ID: 94007121ER File: EXSD1220035.wif
 Peak Name: 35-Dinitroaniline Mass(es): 182.0460 amu
 Comment: LCX832125 Annotation: ..
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 1/22/2010
 Time: 7:19:34 PM
 Modified: No



Handwritten signature/initials.

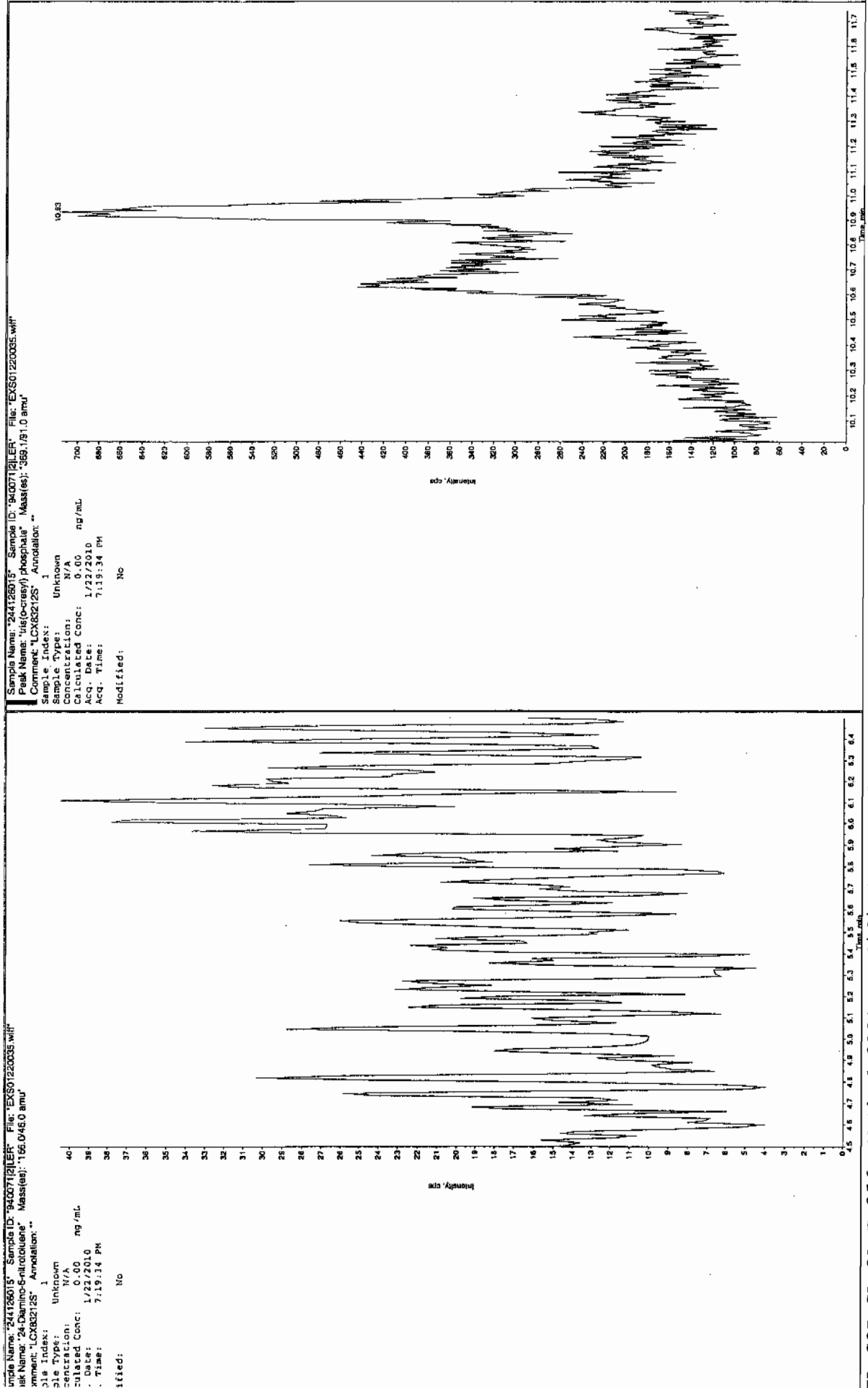
Sample Name: "244126015" Sample ID: "94007121ER" File: "EX501220035.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 7:19:34 PM
 Modified: No



Sample Name: "244126015" Sample ID: "94007121ER" File: "EX501220035.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 299. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 7:19:34 PM
 Modified: No
 c. Algorithm: IntelliQuan - IOA
 . Peak Height: 1460.00 cps
 . Peak Width: 3.00 sec
 . Retention: 8.39 min
 . Window: 15.0 sec
 . Relative RT: 8.30 min
 . Type: Valley
 . Retention Time: 8.39 min
 . Area: 3.76e+006 counts
 . ght: 925554.932 cps
 . rt Time: 8.29 min
 . Time: 8.70 min



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: RE12-10-7645

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125059a

Date Analyzed: 26-JAN-10 15:51

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

Filename: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125059a

Date: 26-Jan-2010

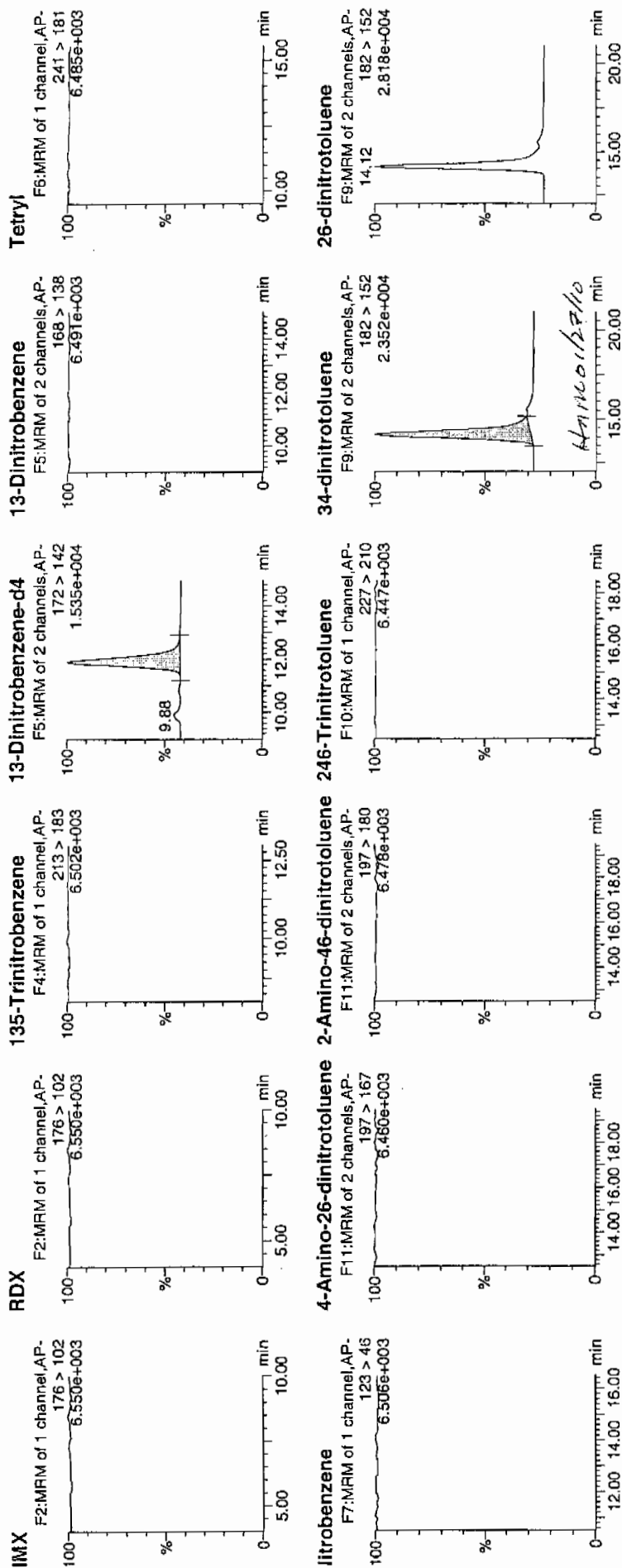
Time: 15:51:57

Sample: 244126016

File: 3:4,B

1/27/10

740071 822 / 21

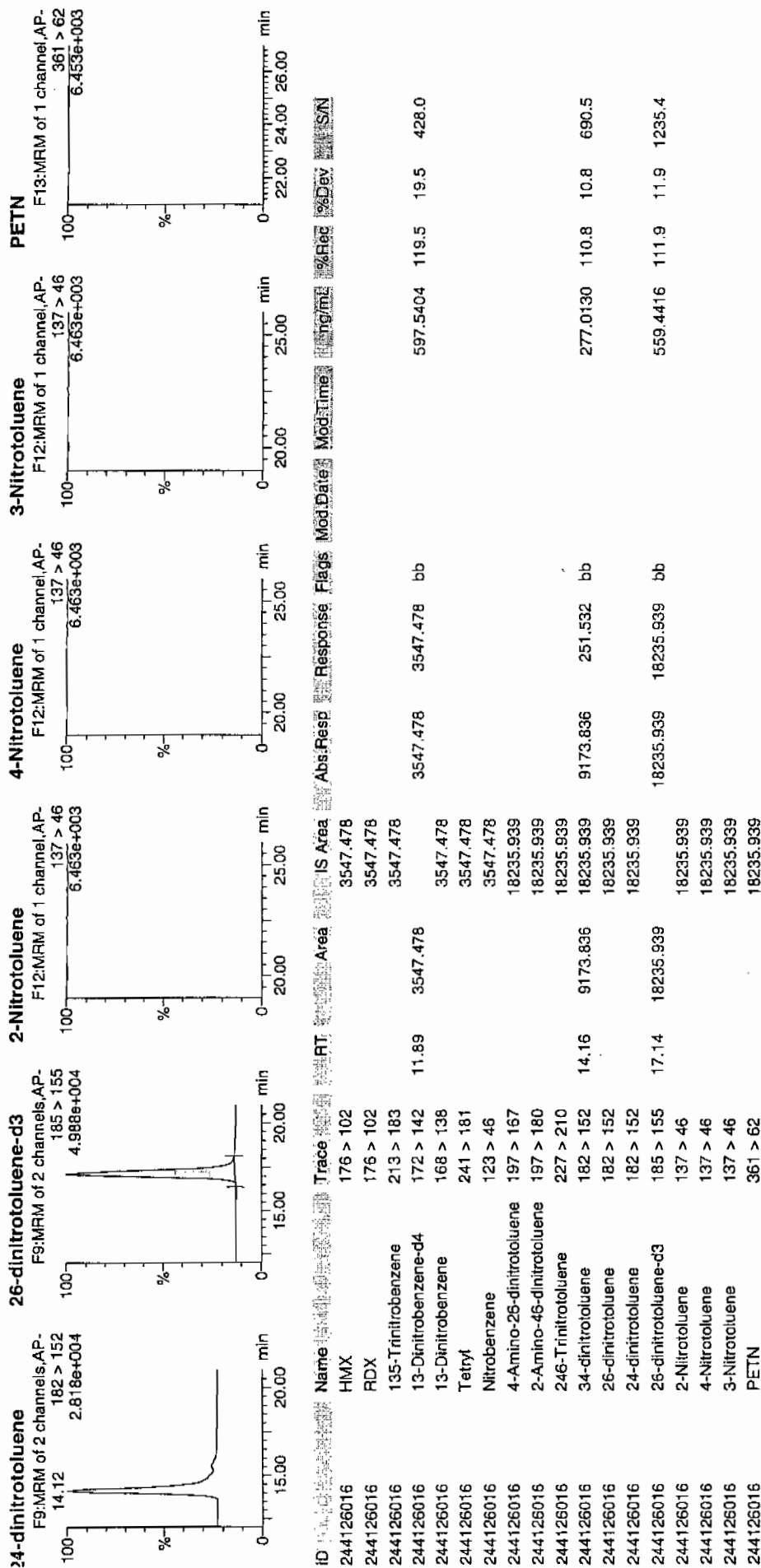


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Jan 27 09:26:20 2010, Page 46 of 97

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7645

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220036.wiff

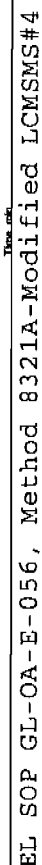
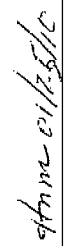
Date Analyzed: 22-JAN-10 19:35

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

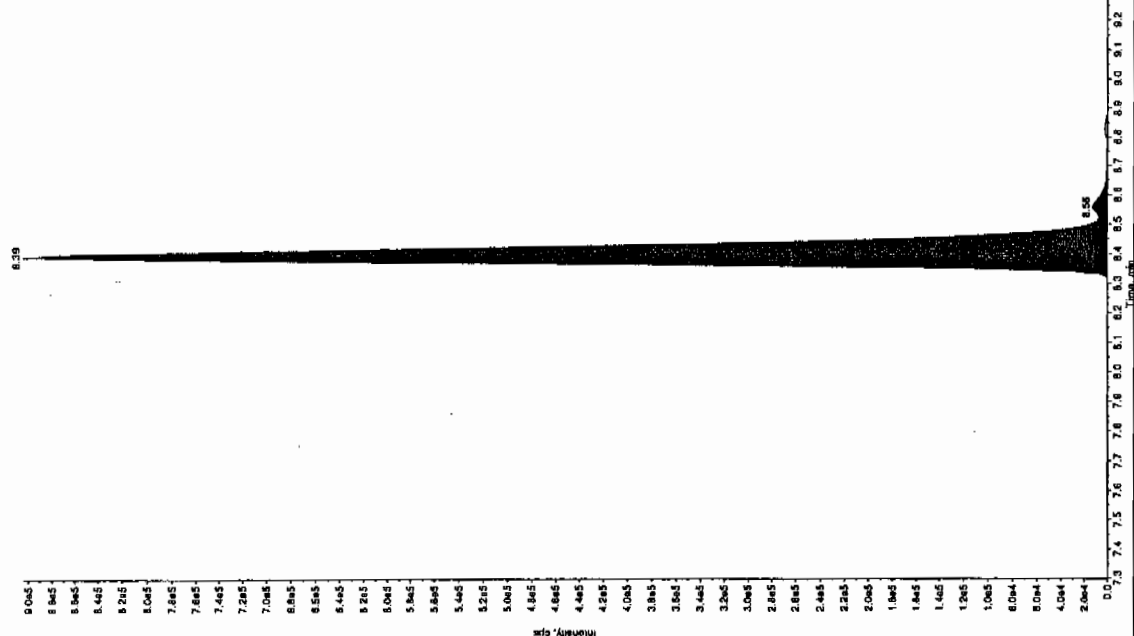
*Concentration =

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



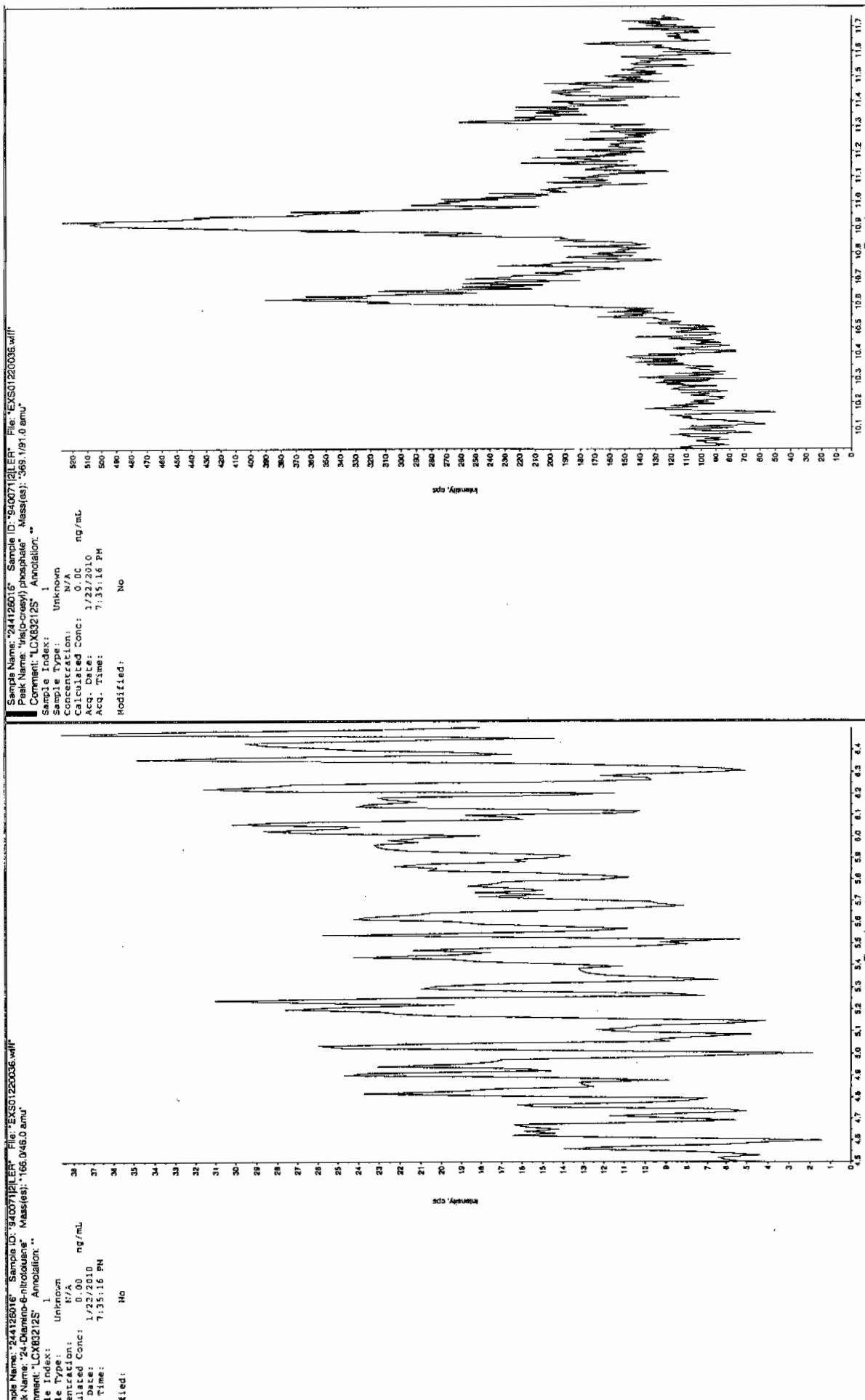
Sample Name: "24126016" Sample ID: "94007121ER" File: "EXS01220036.will"
 Peak Name: "34-Dinitrochlorobenzene" Mass(es): "182.17519 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/22/2010
 Date: 7:33:16 PM
 Acq. Time: 7:33:16 PM
 Modified: No



Sample Name: "24126016" Sample ID: "94007121ER" File: "EXS01220036.will"
 Peak Name: "34-Dinitrochlorobenzene" Mass(es): "182.17519 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/22/2010
 Date: 7:33:16 PM
 Acq. Time: 7:33:16 PM
 Modified: No
 c. algorithm: Intelliquan - IQA
 Peak Height: 1450.00 cps
 Peak Width: 0.00 sec
 Retention Width: 3 points
 Window: 15.0 sec
 Retention RT: 8.30 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.39 min
 Height: 3.76e-005 counts
 RT Time: 904501.379 cps
 Time: 8.30 min
 Time: 8.73 min



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: RE12-10-7646

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125063a

Date Analyzed: 26-JAN-10 17:49

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

Printed: Wed Jan 27 09:26:20 2010, Page 53 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125063a

Date: 26-Jan-2010

Time: 17:49:56

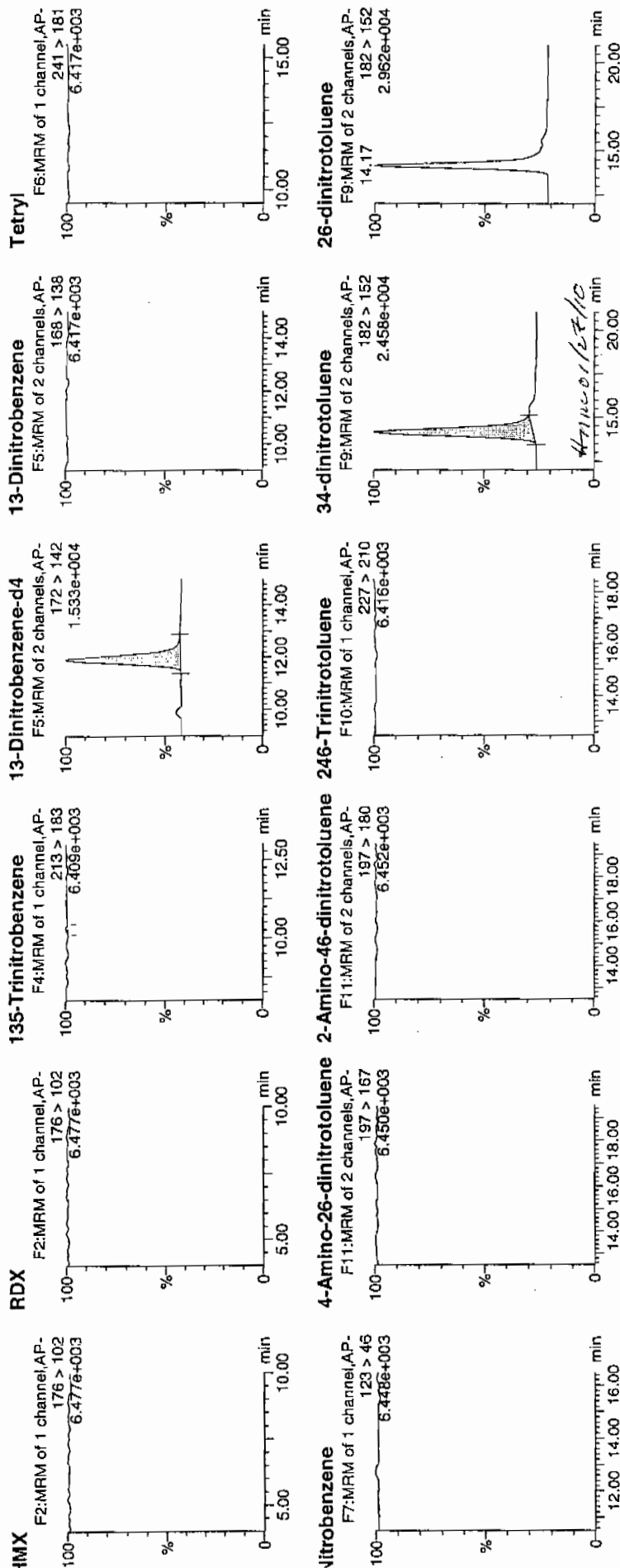
ID: 244126017

File: 3:4,C

1/27/10

WAV 940071 | Scans 121

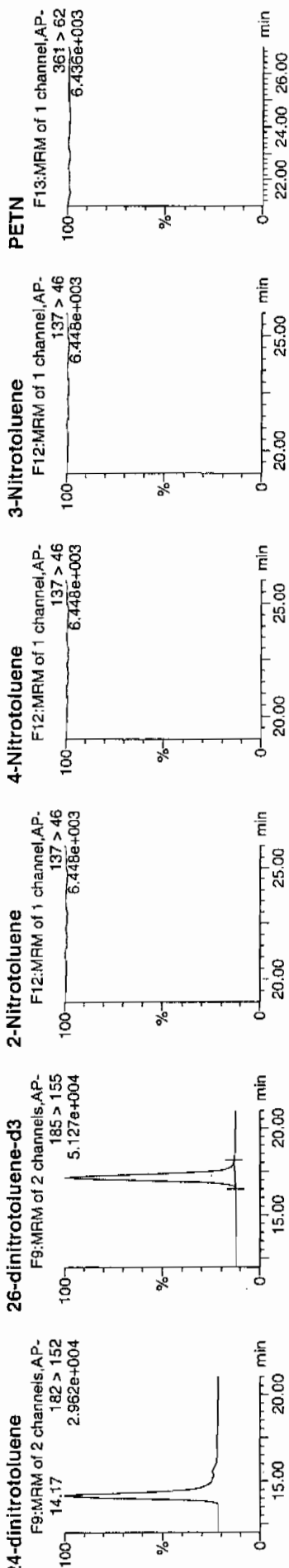
Page 256 of 556



Printed: Wed Jan 27 09:26:20 2010, Page 54 of 97

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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



ID	Name	Trace	RT	Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
244126017	HMX	176 > 102		3428.695								
244126017	RDX	176 > 102		3428.695								
244126017	135-Trinitrobenzene	213 > 183		3428.695				MM- 27-Jan-10	09:08:29			
244126017	13-Dinitrobenzene-d4	172 > 142	11.89	3428.695	3428.695	3428.695	bb			577.5325	115.5	245.2
244126017	13-Dinitrobenzene	168 > 138		3428.695								
244126017	Tetryl	241 > 181		3428.695								
244126017	Nitrobenzene	123 > 46		3428.695								
244126017	4-Amino-26-dinitrotoluene	197 > 167		19095.725								
244126017	2-Amino-48-dinitrotoluene	197 > 180		19095.725								
244126017	246-Trinitrotoluene	227 > 210		19095.725								
244126017	34-dinitrotoluene	182 > 152	14.17	9488.630	9488.630	248.449	bb			273.6181	109.4	585.4
244126017	26-dinitrotoluene	182 > 152		19095.725								
244126017	24-dinitrotoluene	182 > 152		19095.725								
244126017	26-dinitrotoluene-d3	185 > 155	17.16	19095.725	19095.725	19095.725	bb			585.8181	117.2	1644.9
244126017	2-Nitrotoluene	137 > 46		19095.725								
244126017	4-Nitrotoluene	137 > 46		19095.725								
244126017	3-Nitrotoluene	137 > 46		19095.725								
244126017	PETN	361 > 62		19095.725								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7646

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220040.wiff

Date Analyzed: 22-JAN-10 20:38

Units: ug/kg

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

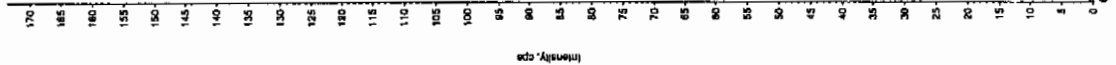
*Concentration =

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

See 1/25/10

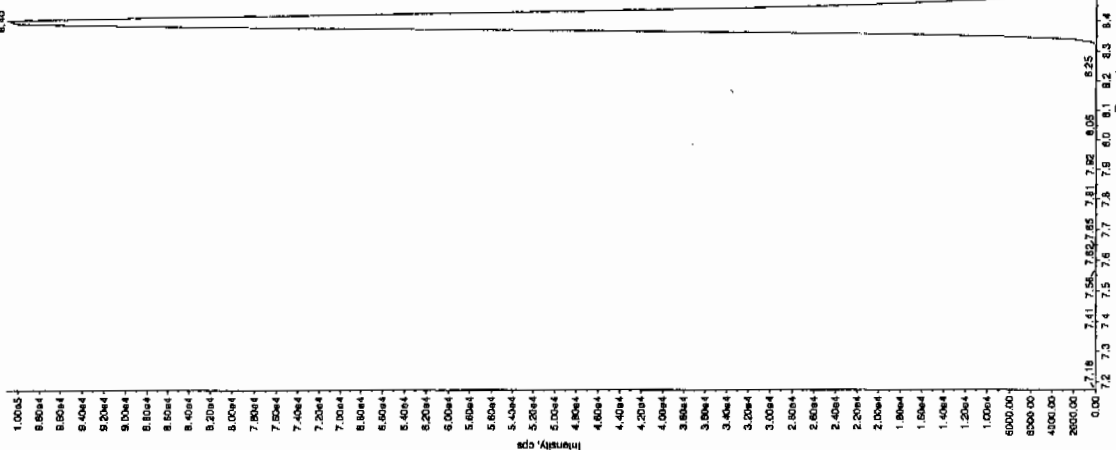
Sample Name: "244126017" Sample ID: "94007121" File: "EX01220040.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 8/18/05 PM
 Acq. Time: 8:38:05 PM
 Modified: No



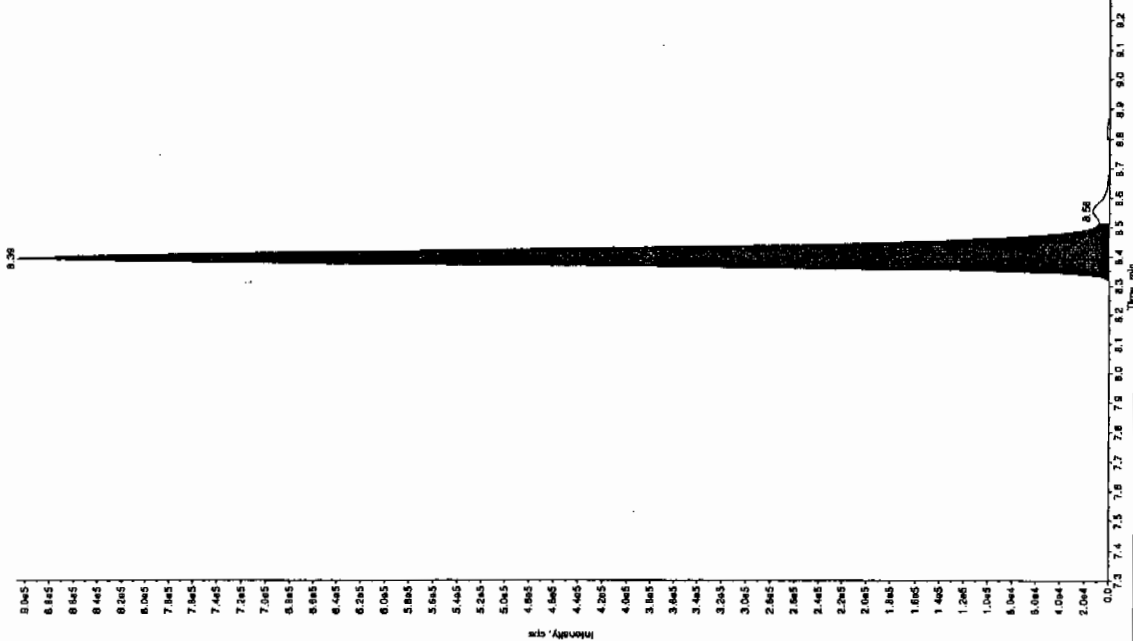
Sample Name: "244126017" Sample ID: "94007121" File: "EX01220040.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/22/2010
 Acq. Date: 8/18/05 PM
 Acq. Time: 8:38:05 PM
 Modified: No



File Name: "241126017" Sample ID: "94007121ER" File: "EX501220040.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"
 Comment: "LCX832125" Annotation: "

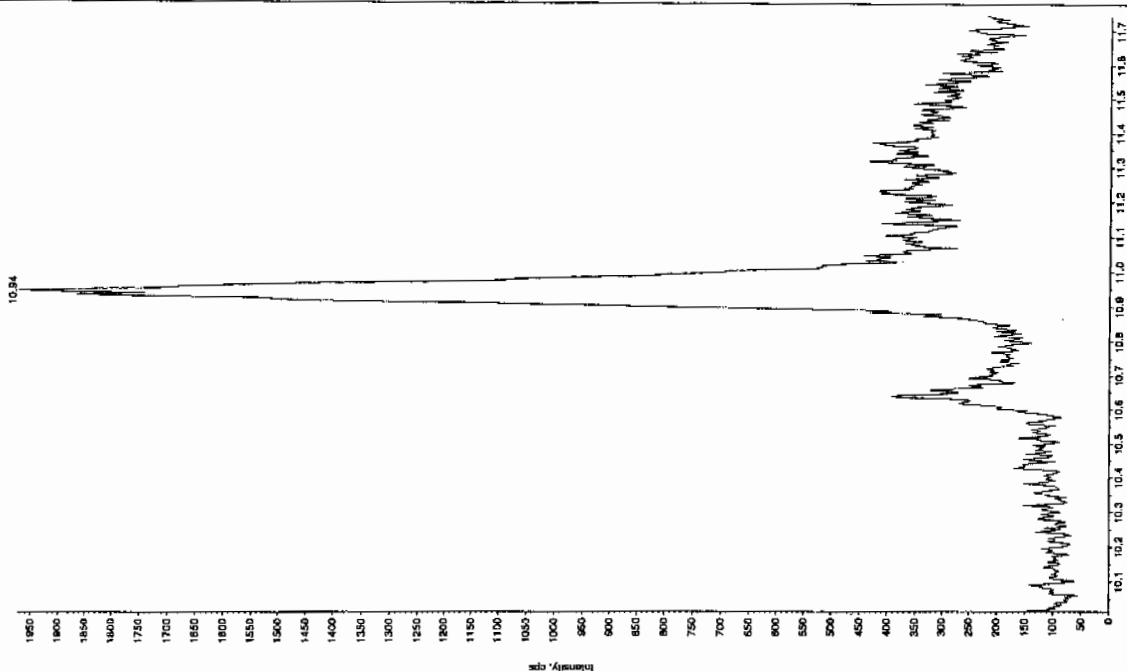
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 8:38:05 PM
 Modified: No



Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 8:38:05 PM
 Modified: No
 Algorithm: IntelliQuan - IOL
 Peak Height: 1460.00 cps
 Peak Width: 3.00 sec
 Peak Width: 15.0 sec
 Peak Width: 8.30 min
 Relative RT: No
 Type: Valley
 Action Time: 8.39 min
 ht: 905699.951 cps
 t Time: 8.30 min
 Time: 8.52 min

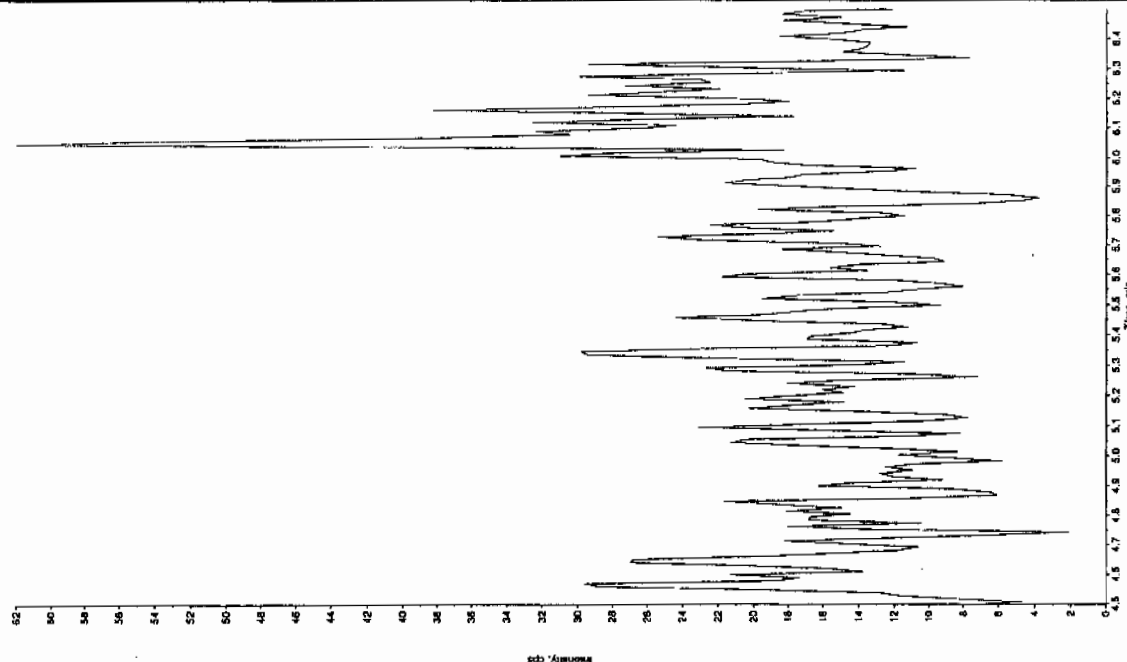
Sample Name: "244126017" Sample ID: "94007121ER" File: "EXS01220000.wif"
 Peak Name: "tris(4-chlorophenyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Injected Conc: 1/22/2010
 Acq. Date: 8:38:05 PM
 Acq. Time: 8:38:05 PM
 Modified: No



Sample Name: "244126017" Sample ID: "94007121ER" File: "EXS01220000.wif"
 Peak Name: "24-Diamino-6-methylcyclohexene" Mass(es): "186.0/46.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Injected Conc: 1/22/2010
 Acq. Date: 8:38:05 PM
 Acq. Time: 8:38:05 PM
 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: RE12-10-7636

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125064a

Date Analyzed: 26-JAN-10 18:19

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125064a

Date: 26-Jan-2010

Time: 18:19:46

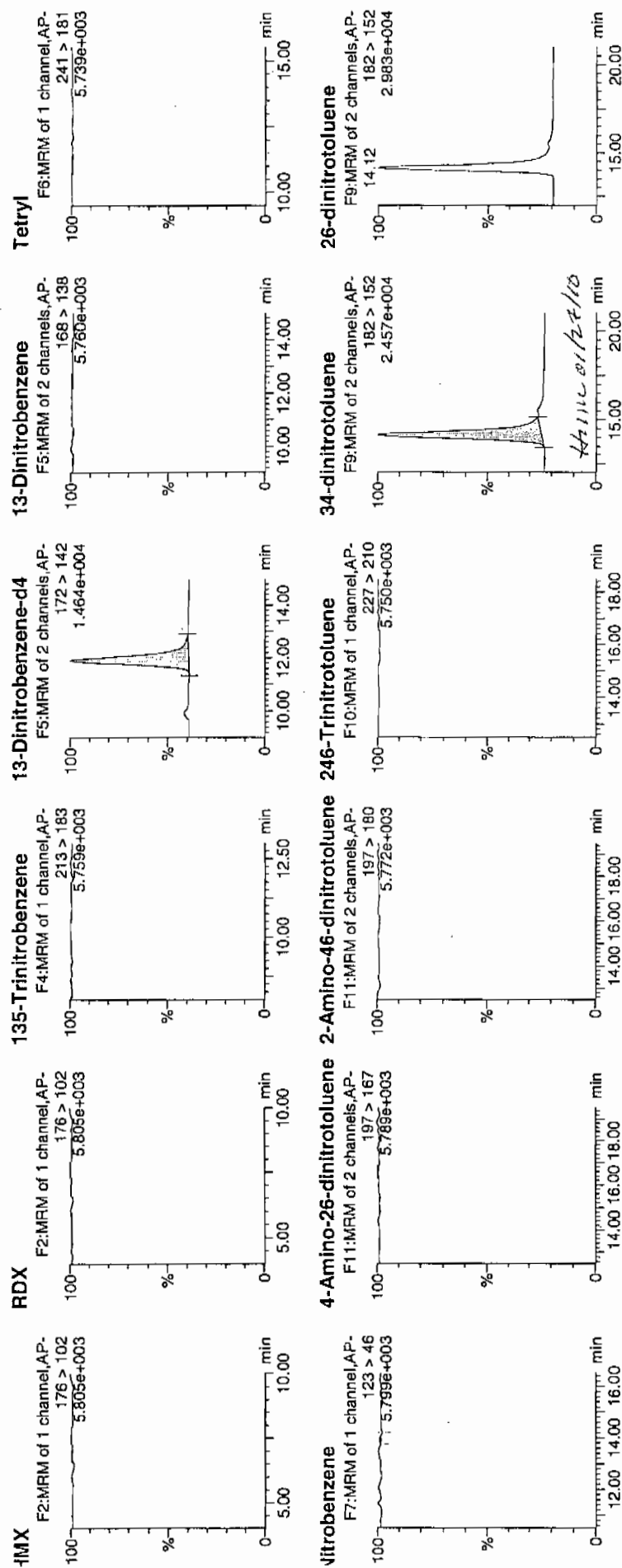
ID: 244126018

/alt: 3:4,D

1477
 1/23/10

LAUC (940071) / 2-1

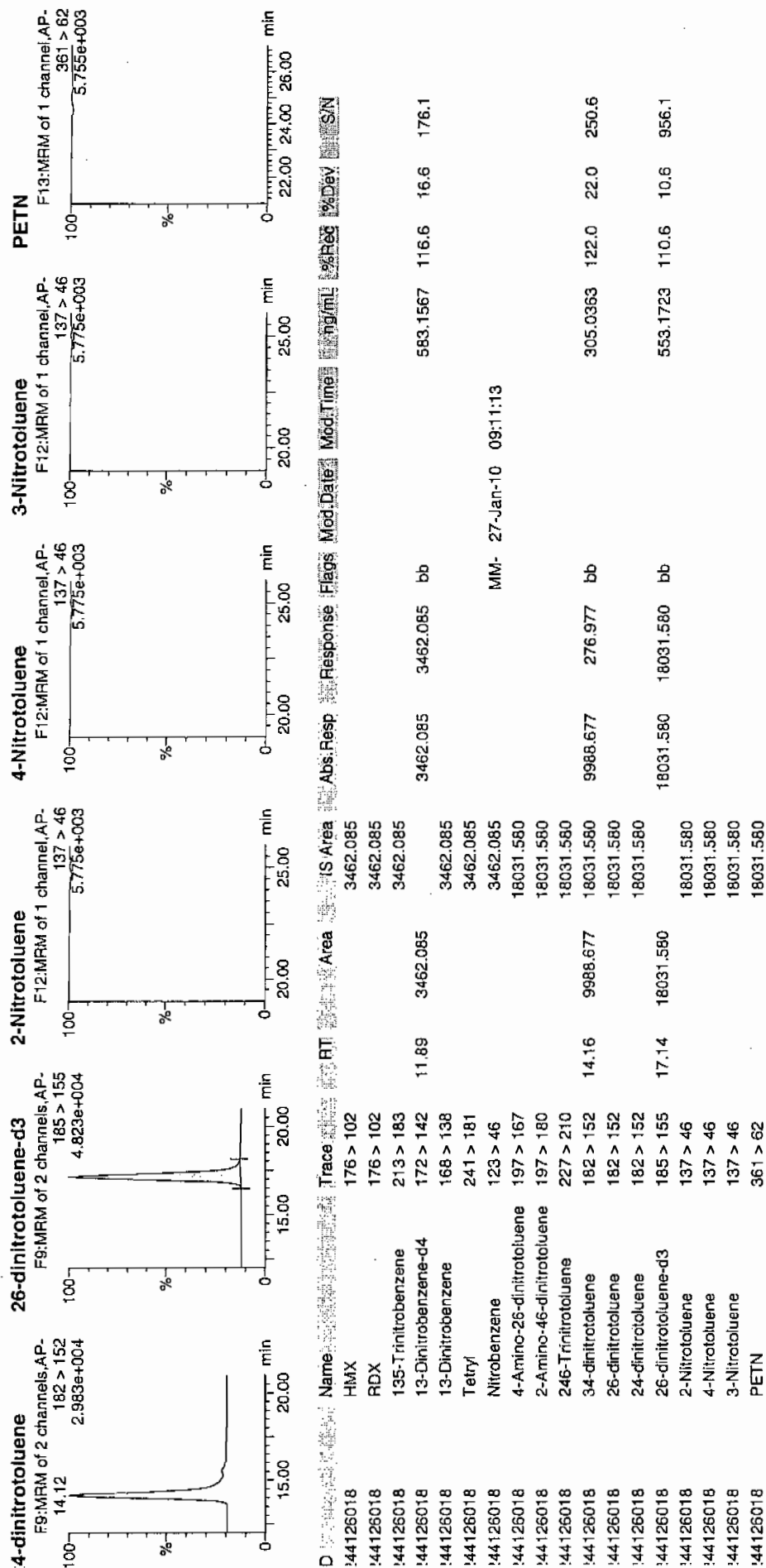
Page 263 of 556



Printed: Wed Jan 27 09:26:20 2010, Page 56 of 97

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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7636

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126018

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220041.wiff

Date Analyzed: 22-JAN-10 20:53

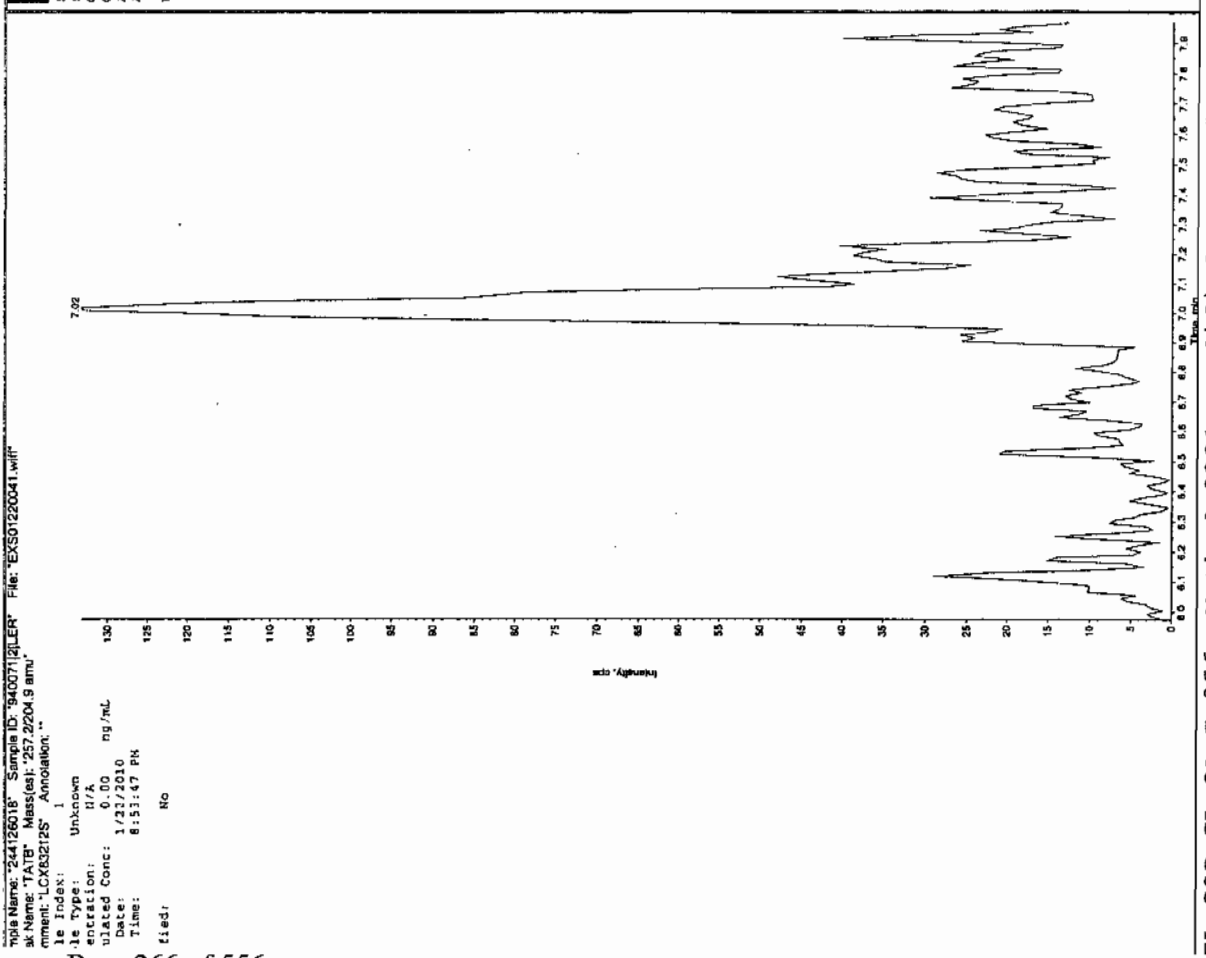
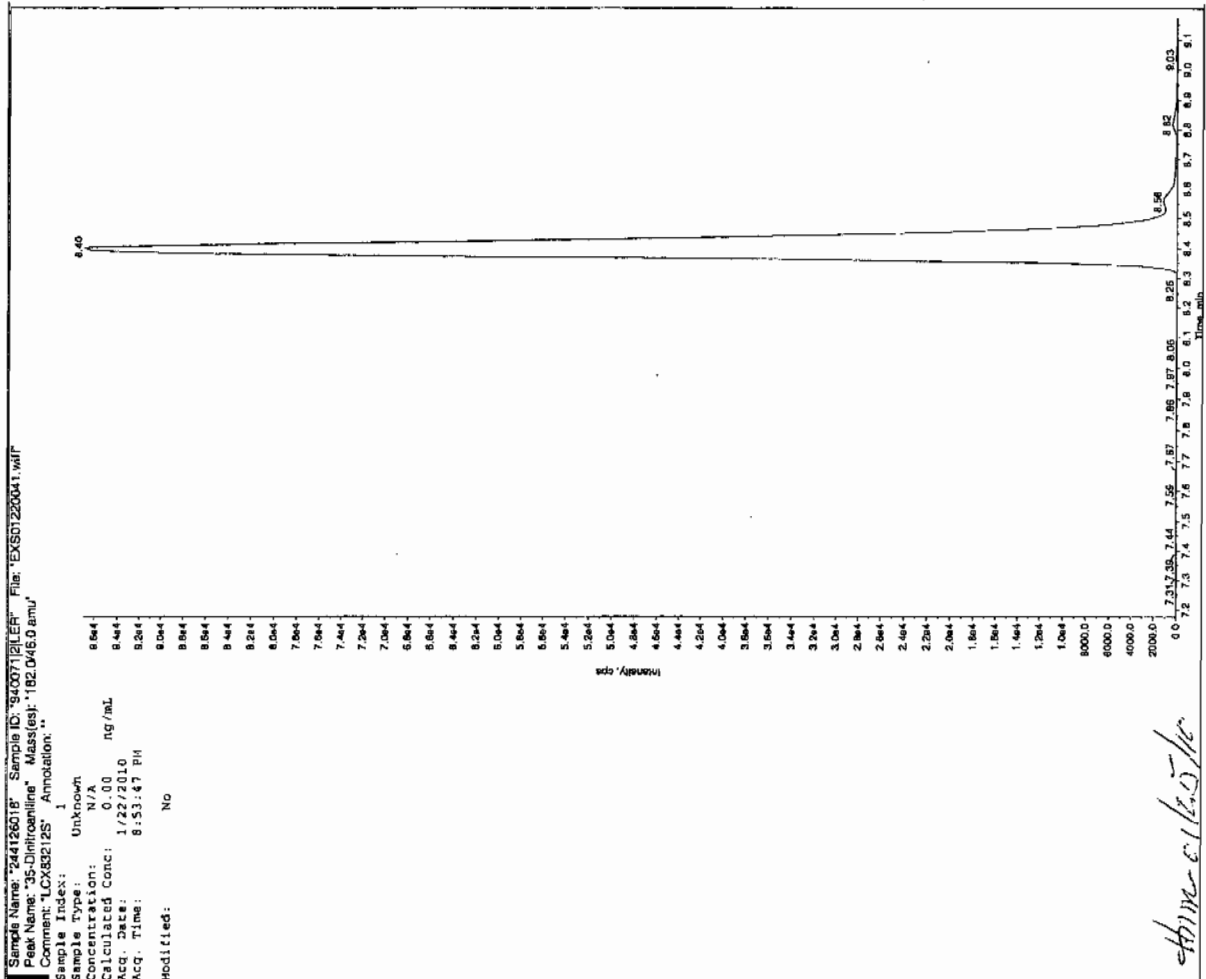
Units: ug/kg

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 Concentrated Extract Volume X Dilution Factor
Sample Amount

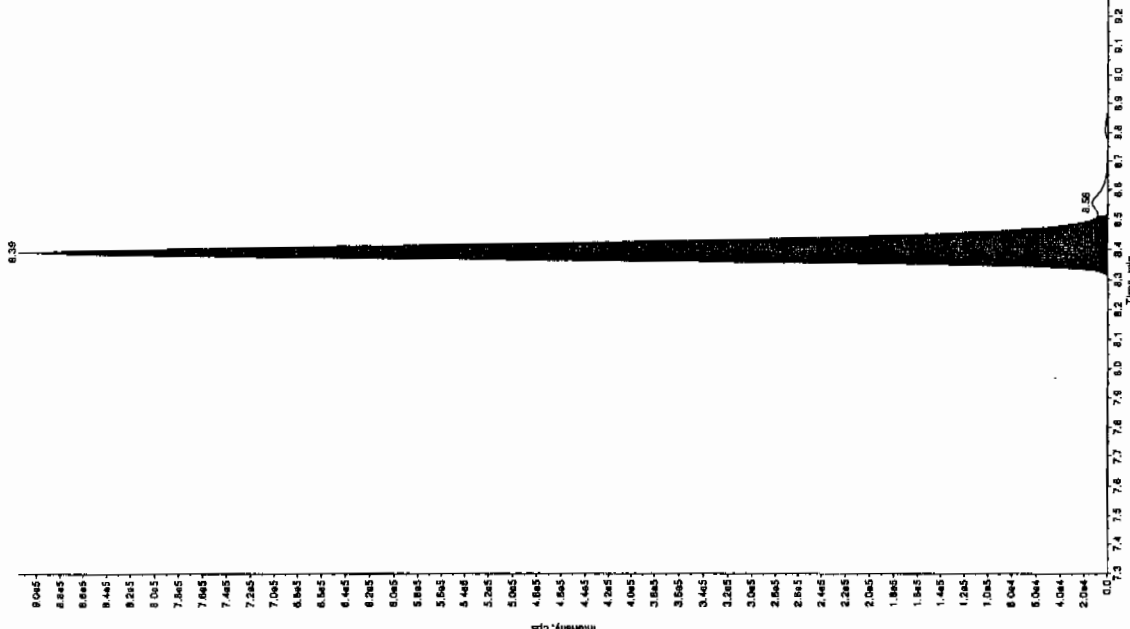
Scan 1125110



Chromatogram

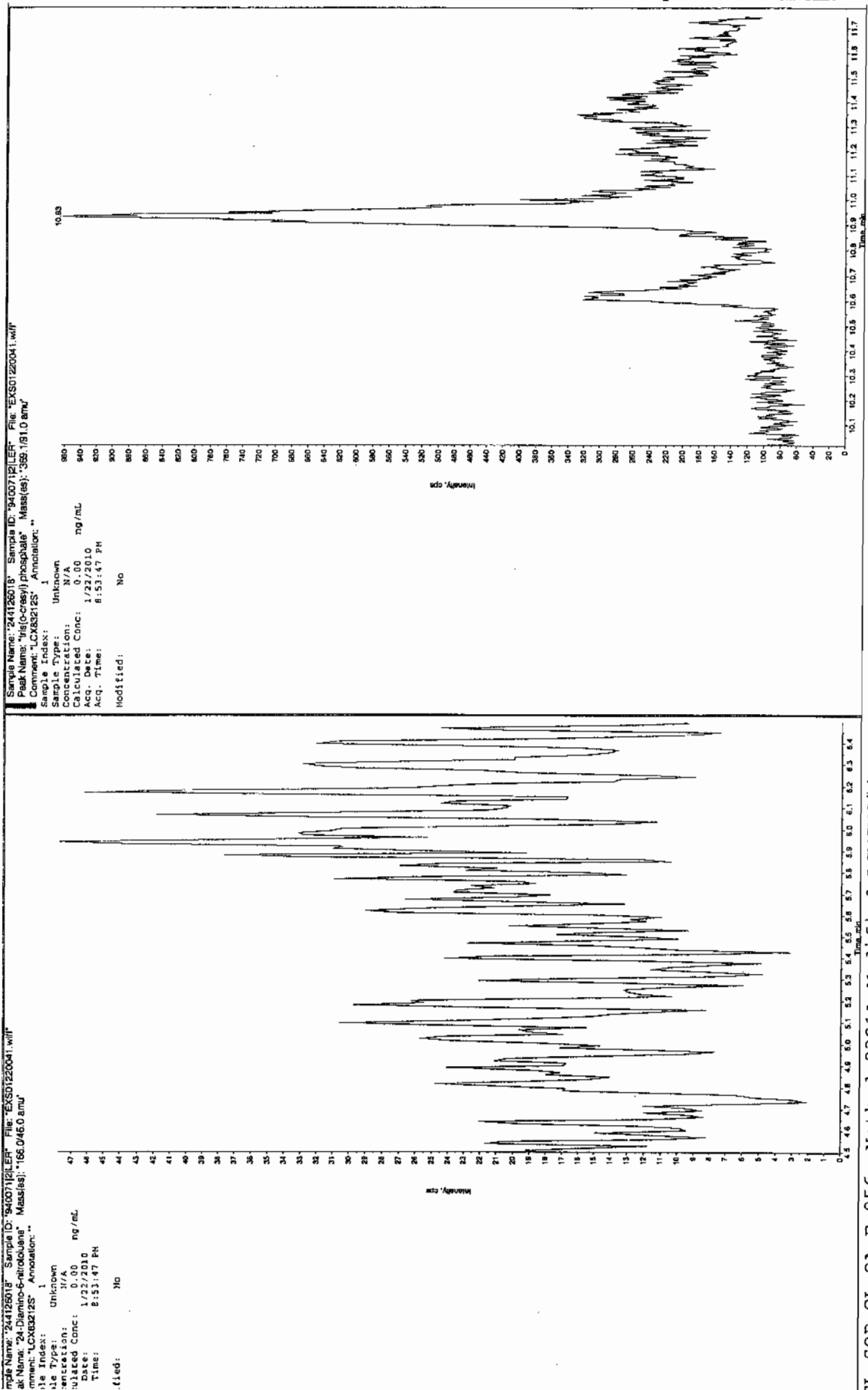
Sample Name: "244126018" Sample ID: "94007121ER" File: "EXS01220041.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "185.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 8:53:47 PM
 Modified: No



Sample Name: "244126018" Sample ID: "94007121ER" File: "EXS01220041.wif"
 Peak Name: "34-Diaminotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 8:53:47 PM
 Modified: No
 C. Algorithm: IntelliQuan - IQA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Window: 15.0 points
 Window: 6 sec
 Retention Time: 8.39 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.39 min
 Area: 3.71e+006 counts
 Height: 915449.402 cps
 Retention Time: 8.29 min
 Time: 8.52 min



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: RE12-10-7657

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126019

Sample Amount 2

Moisture: 10.1

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125065a

Date Analyzed: 26-JAN-10 18:49

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

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0125065a

Date: 26-Jan-2010

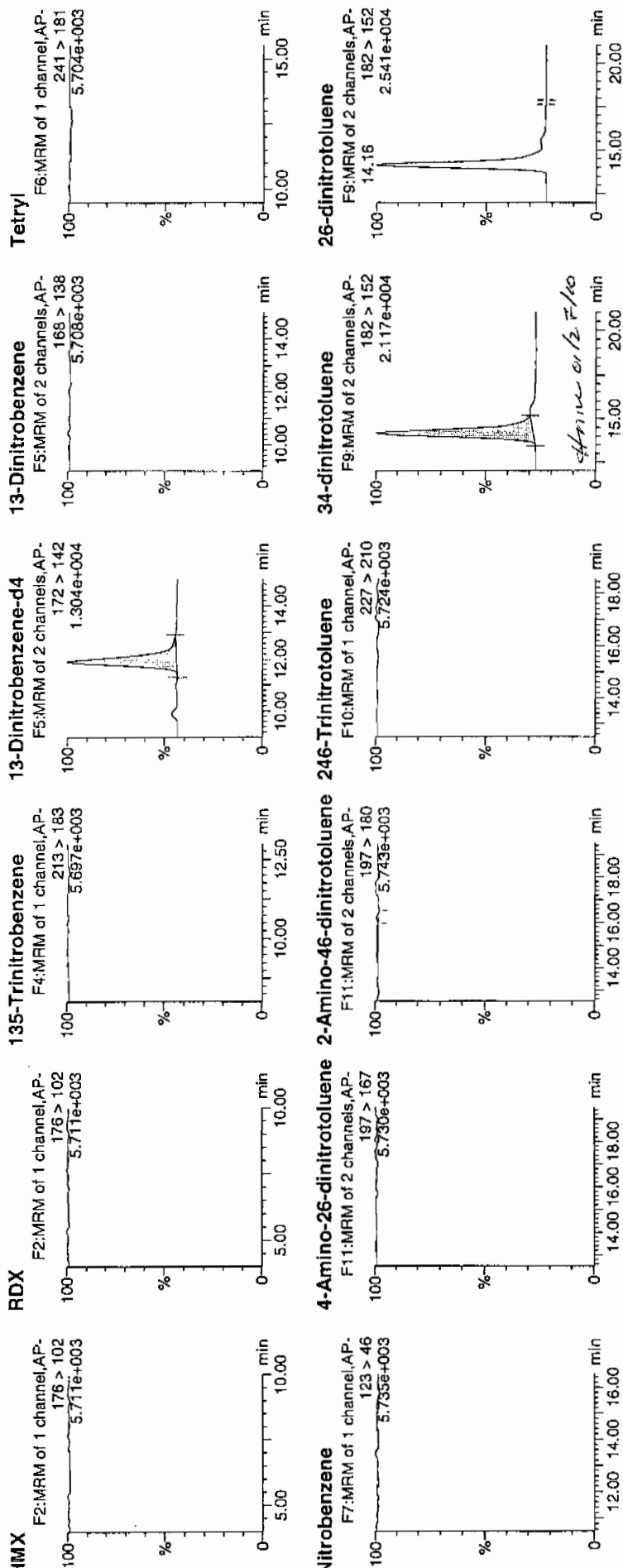
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ID: 244126019

File: 3:4,E

μm
1/27/10

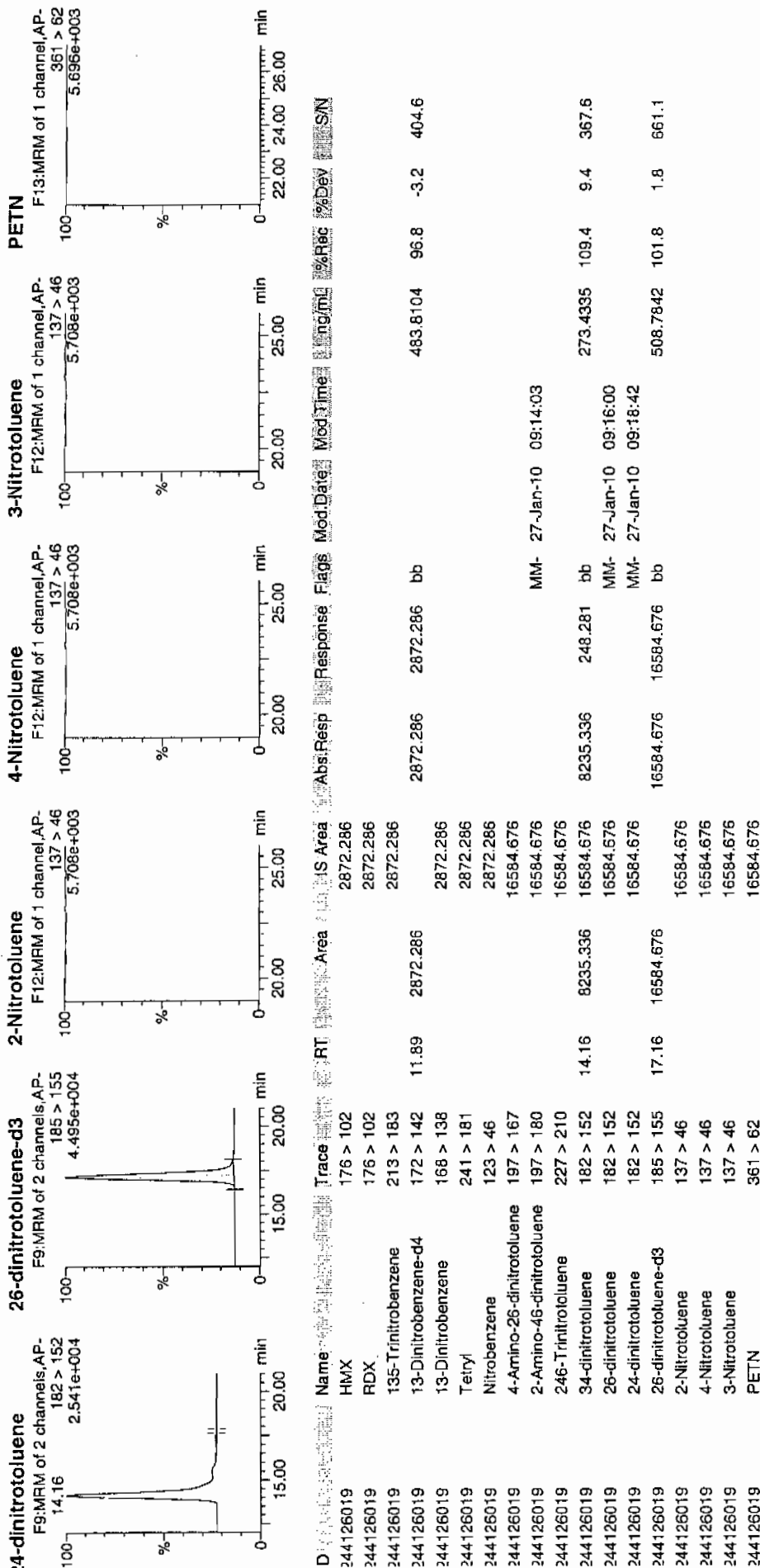
LAUW (940071) / 21



Printed: Wed Jan 27 09:26:20 2010, Page 58 of 97

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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7657

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126019

Sample Amount 2

Moisture: 10.1

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220042.wiff

Date Analyzed: 22-JAN-10 21:09

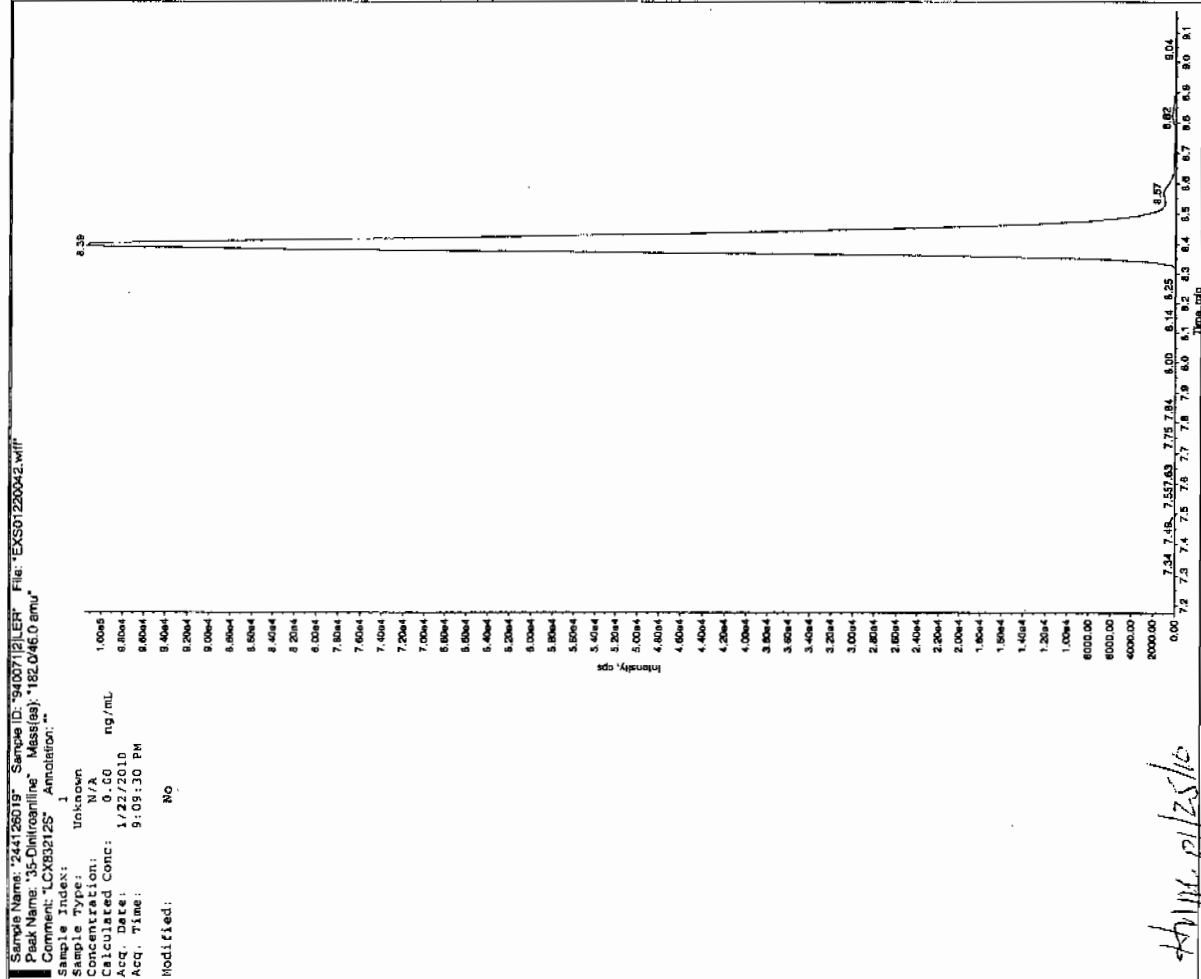
Units: ug/kg

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

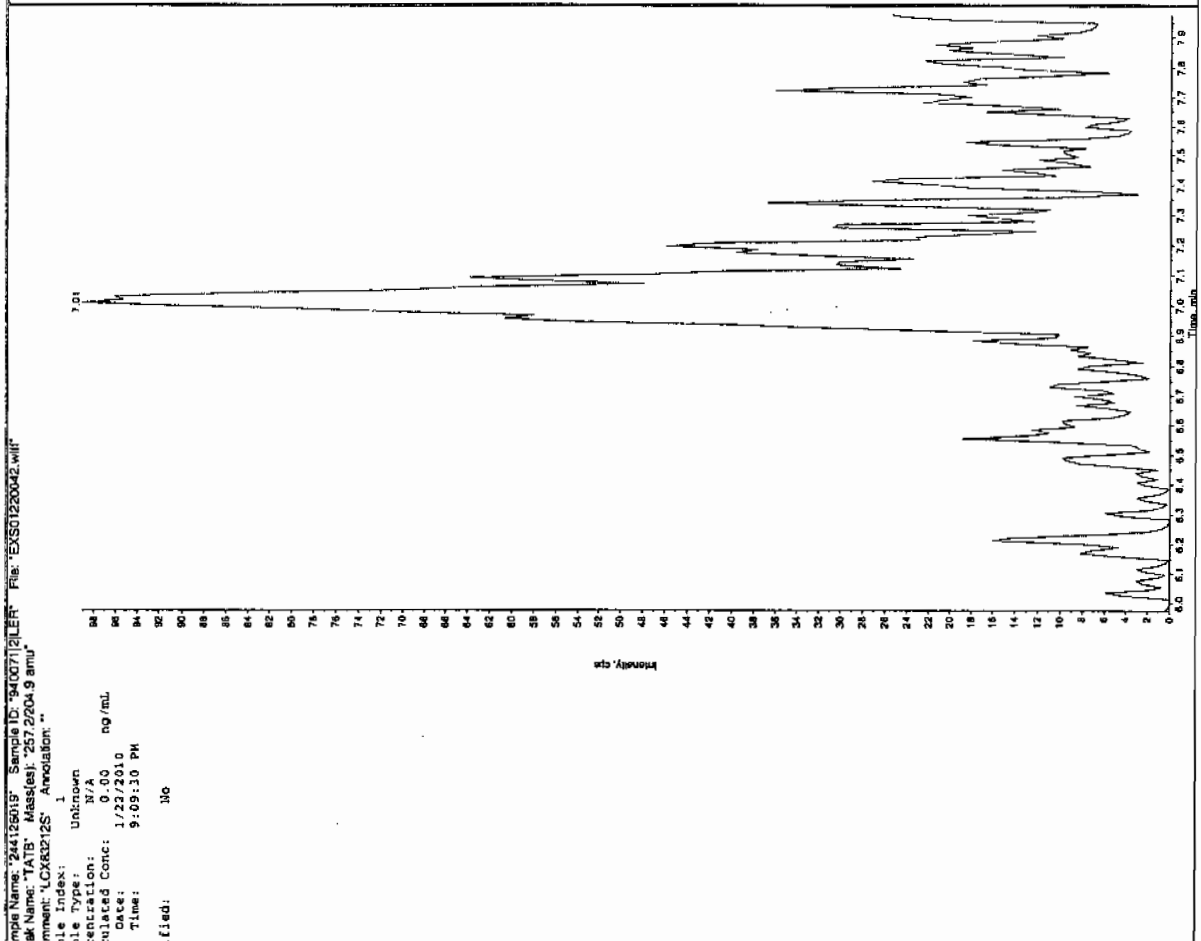
*Concentration =

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

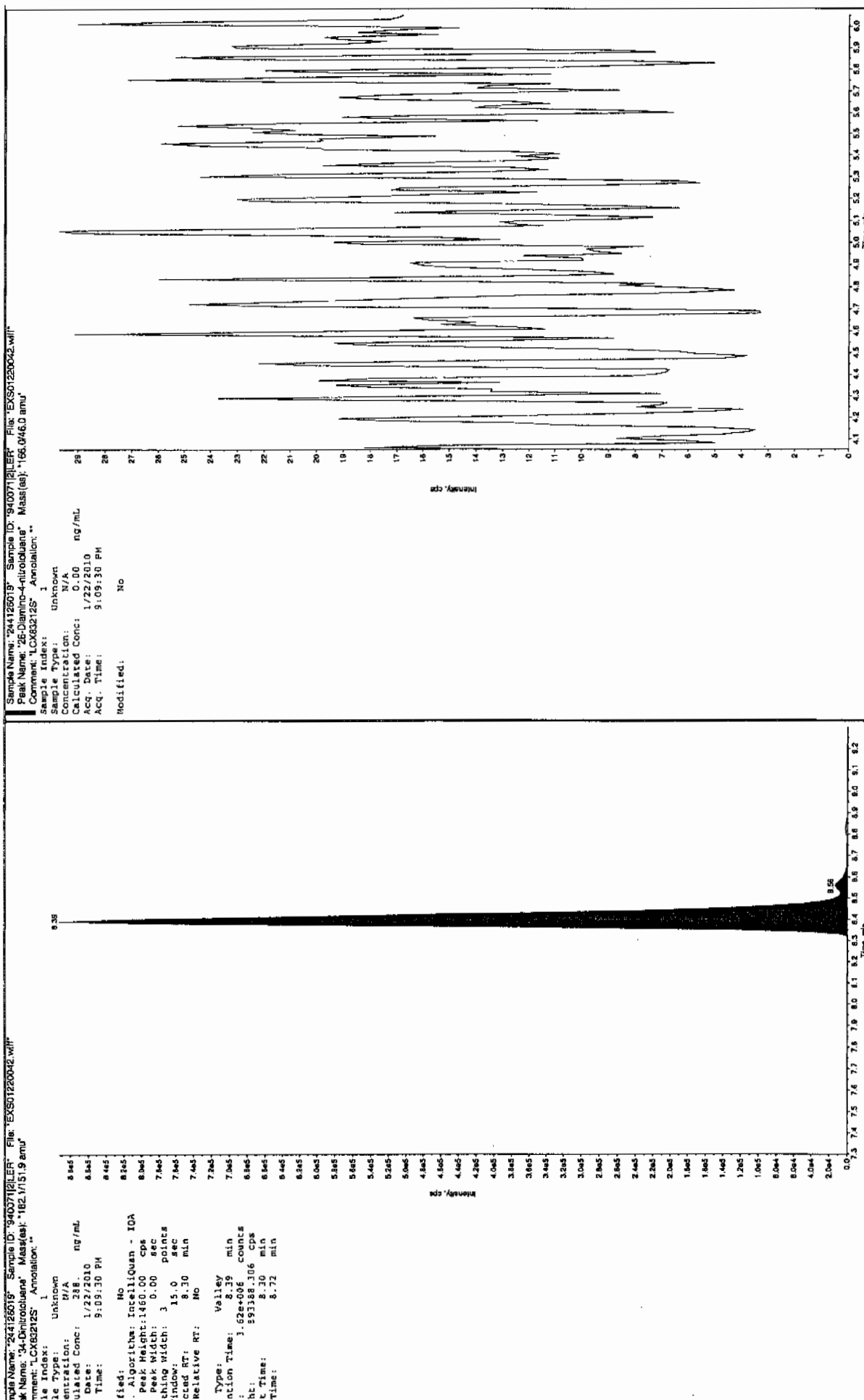
Run 1125110

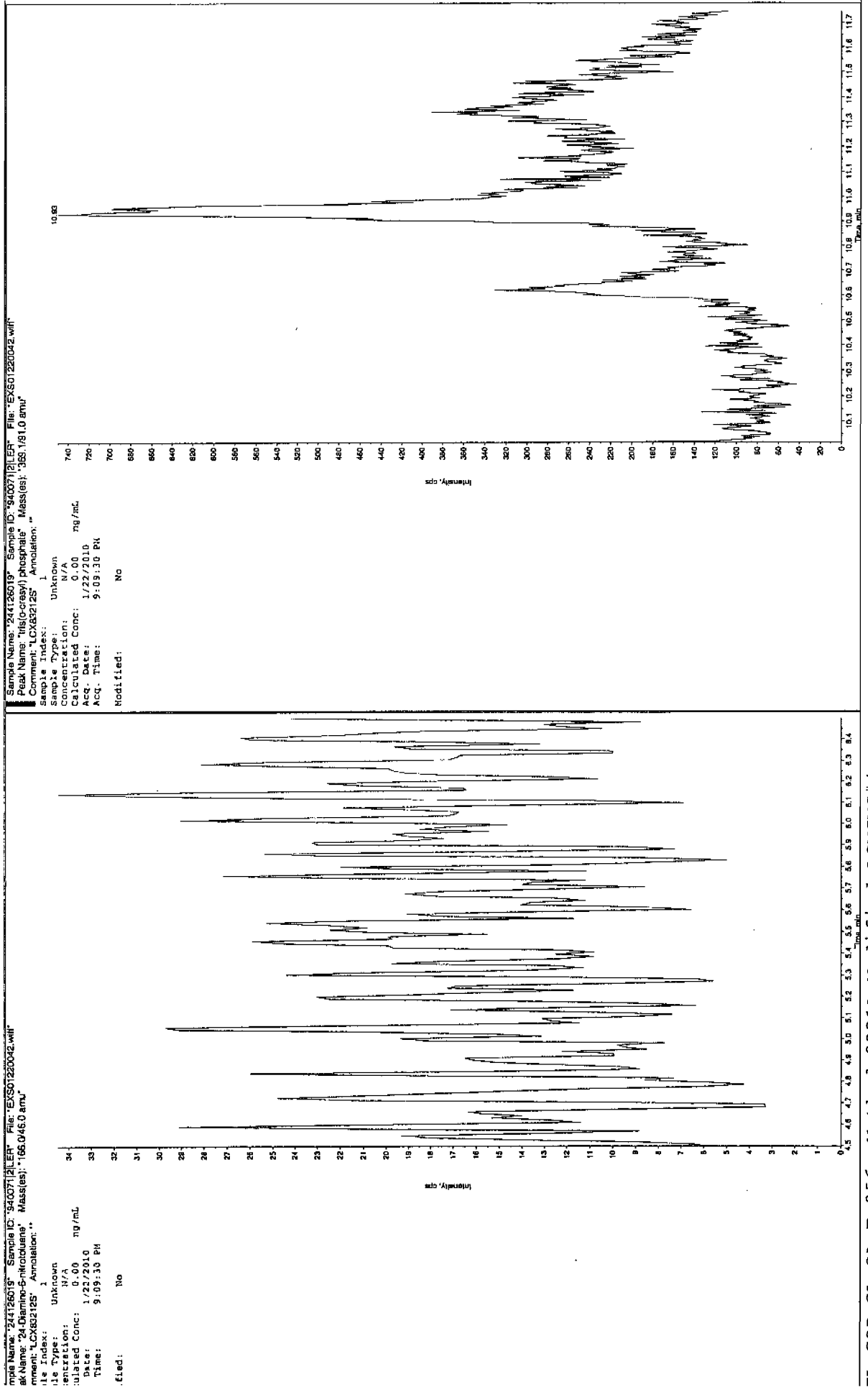


Run 1125110



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





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: RE12-10-7658

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126020

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125066a

Date Analyzed: 26-JAN-10 19:18

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

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.q\d, Time: Wed Jan 27 09:20:42 2010

Sample Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0125066a

Date: 26-Jan-2010

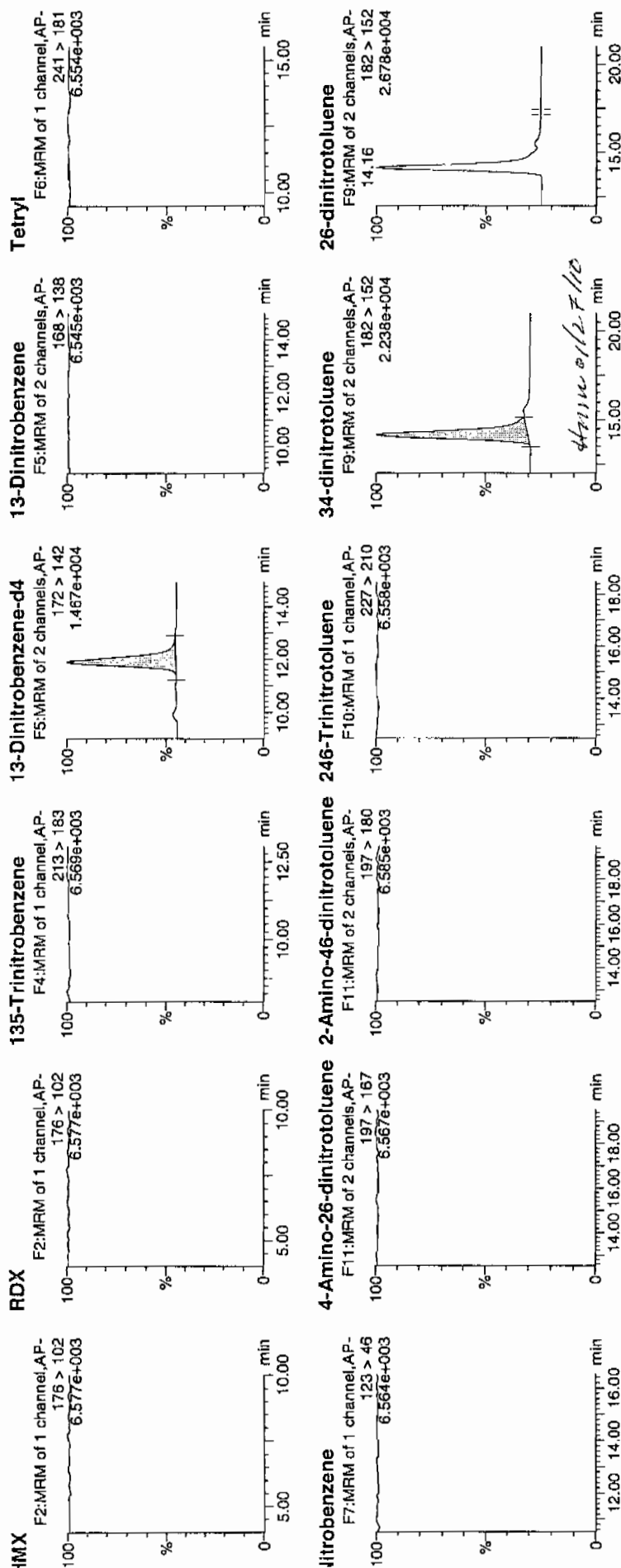
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ID: 244126020

Ratio: 3:4,F

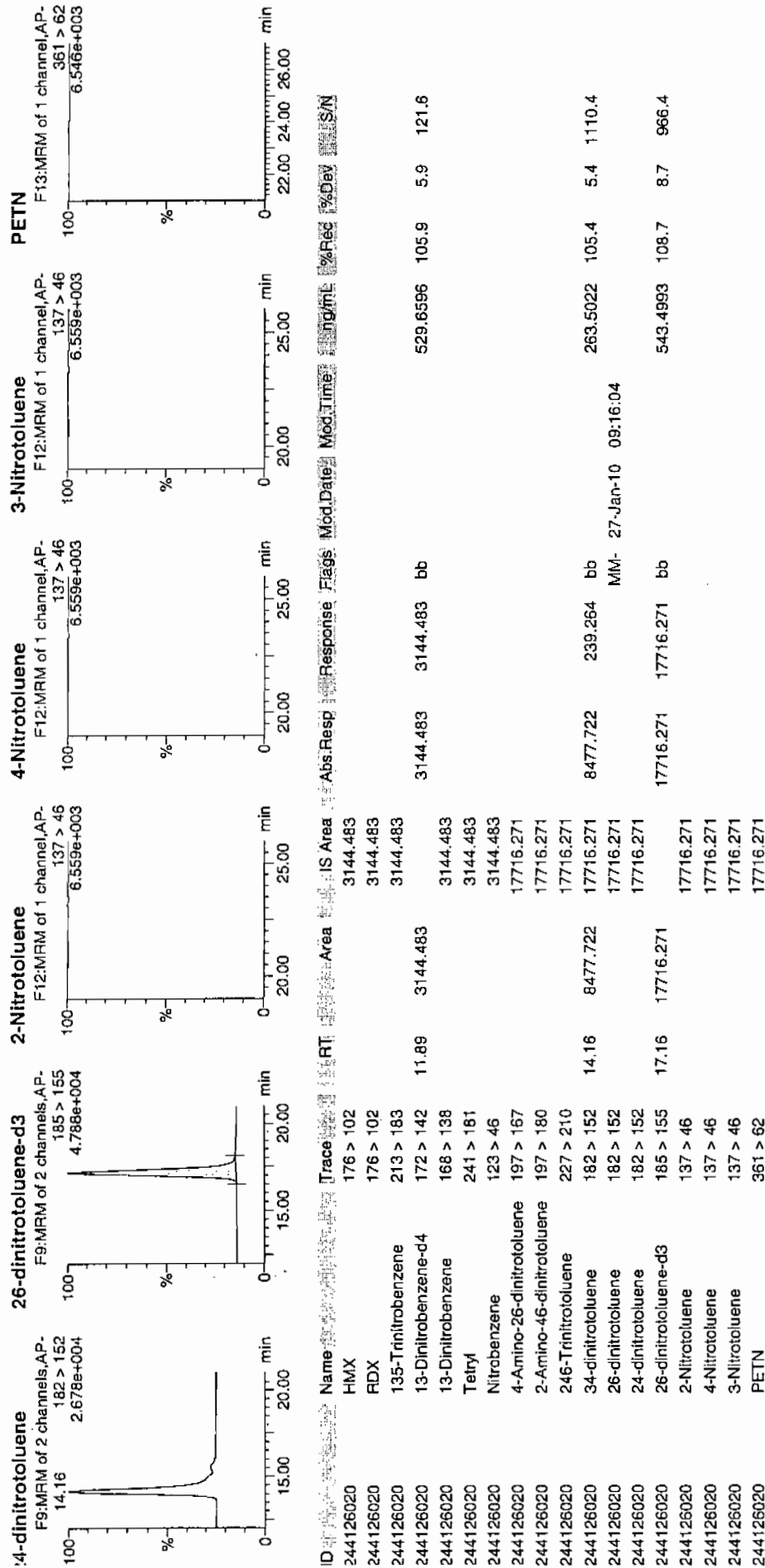
12/2/10

WATN 940071 | 21 |



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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7658

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 244126020

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220043.wiff

Date Analyzed: 22-JAN-10 21:25

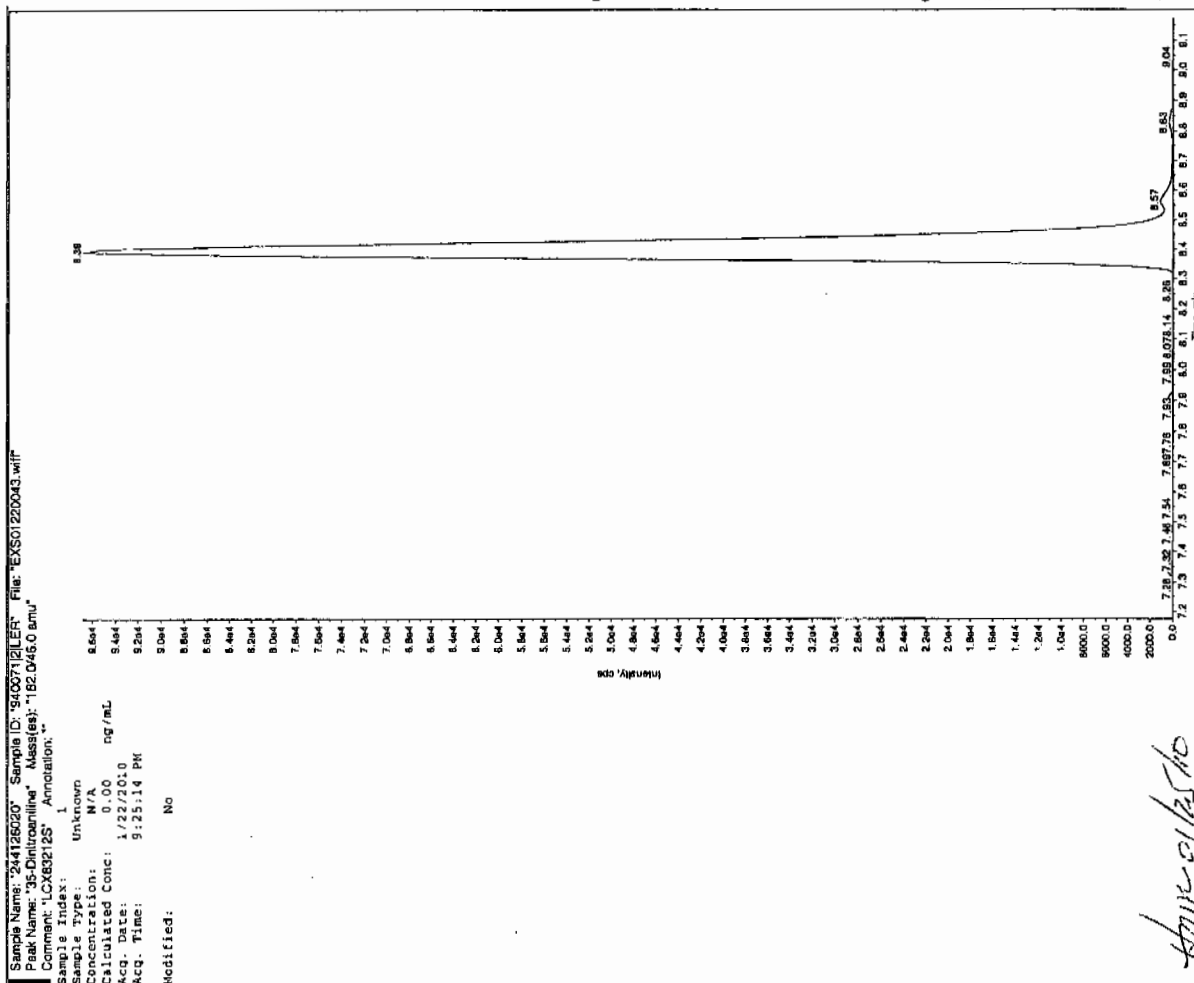
Units: ug/kg

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

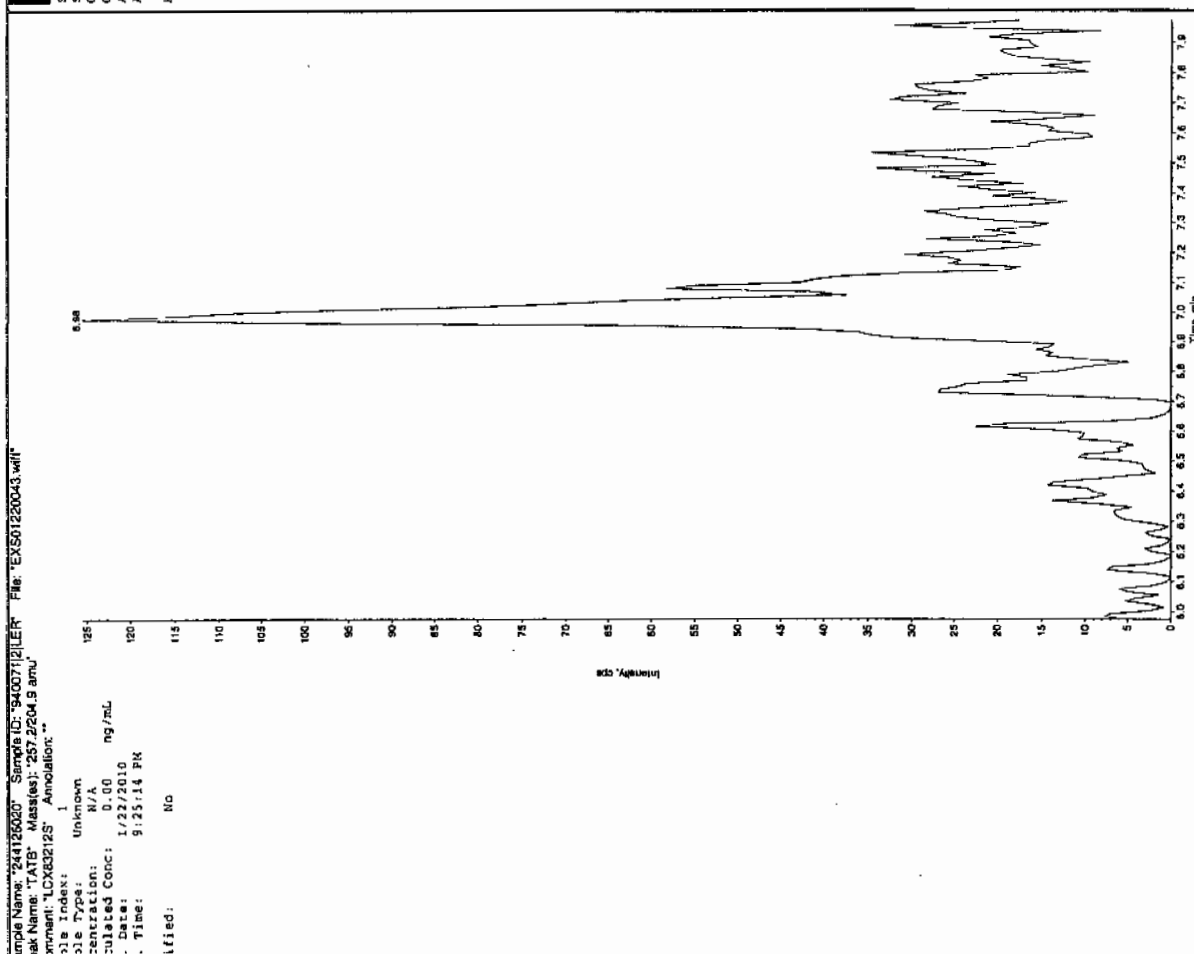
*Concentration =

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

Run 1125710



Amc 01/25/10



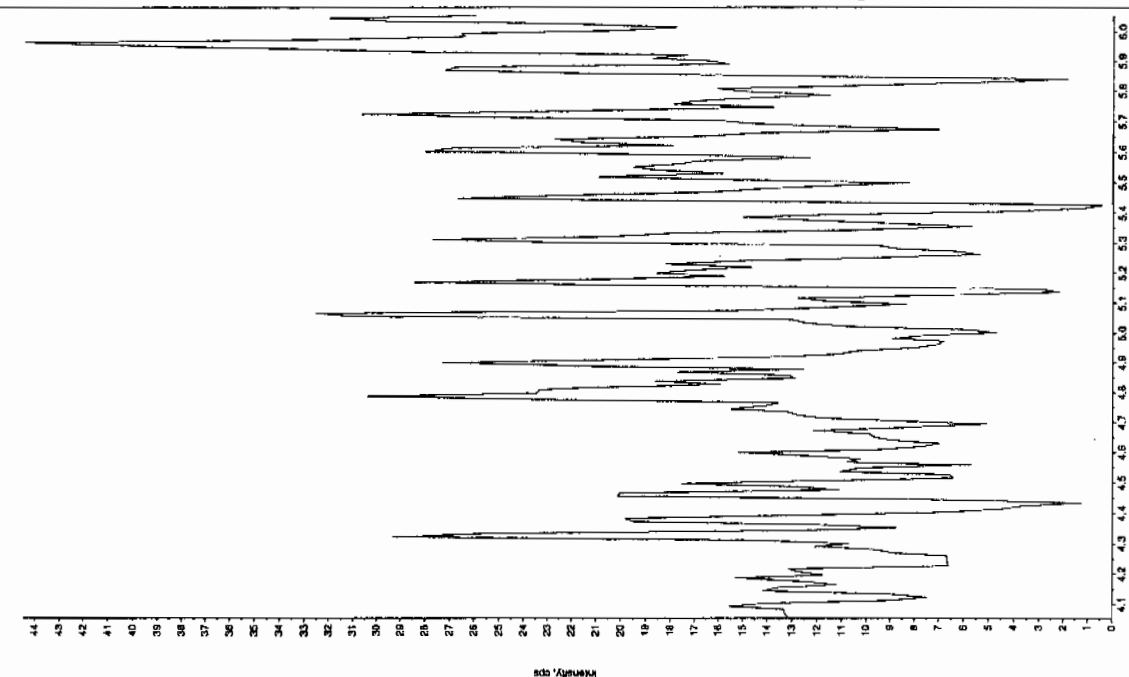
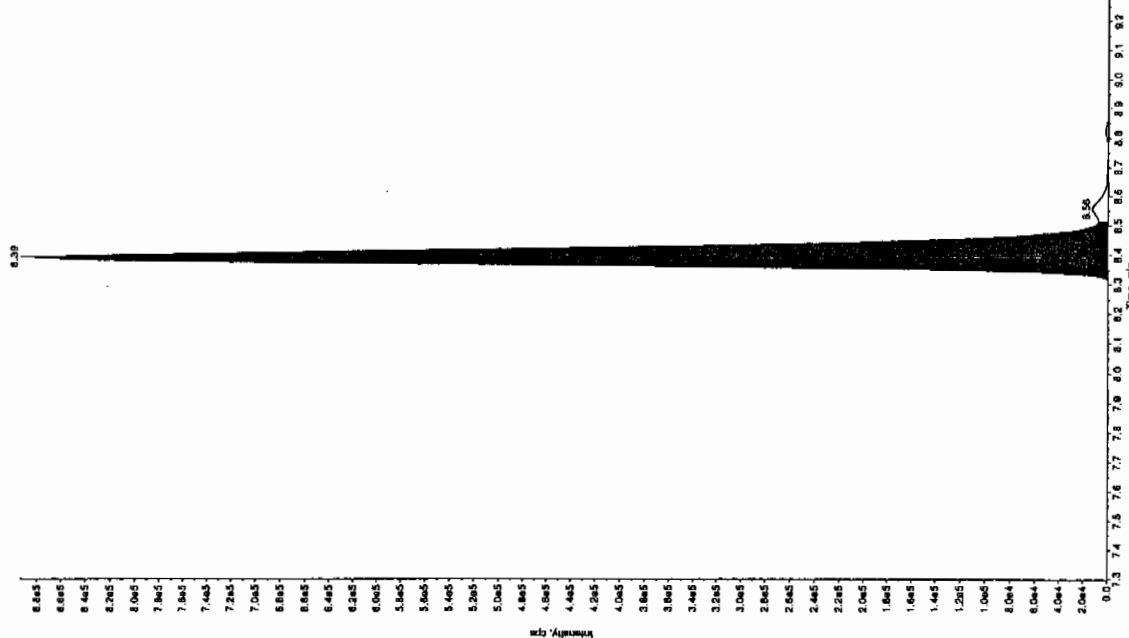
EL SOP GL-OA-E-056, Method 8321A-Modified LCMMS#4

Sample Name: "244126020" Sample ID: "94007121ER" File: "EXS01220043.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" 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: 1/22/2010
 Acq. Time: 9:25:14 PM
 Modified: NO

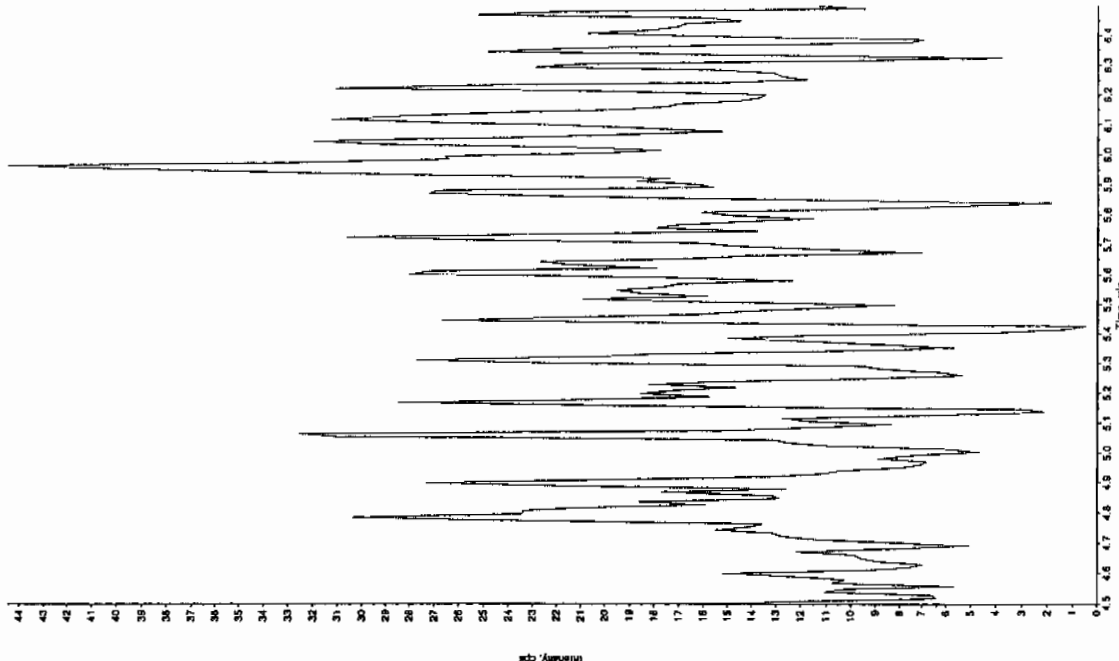
Sample Name: "34-Dinitrofluorene" Sample ID: "94007121ER" File: "EXS01220043.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 9:25:14 PM
 Modified: NO
 Algorithm: IntelliQuan - IQA
 Peak Height: 1480.00 cps
 Peak Width: 0.00 sec
 Peak Width: 3 points
 Window: 15.0 sec
 Acquired RT: 8.30 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.39 min
 Counts: 3.58e+006 counts
 IHC: 894603.210 cps
 CT Time: 8.23 min
 Time: 8.52 min



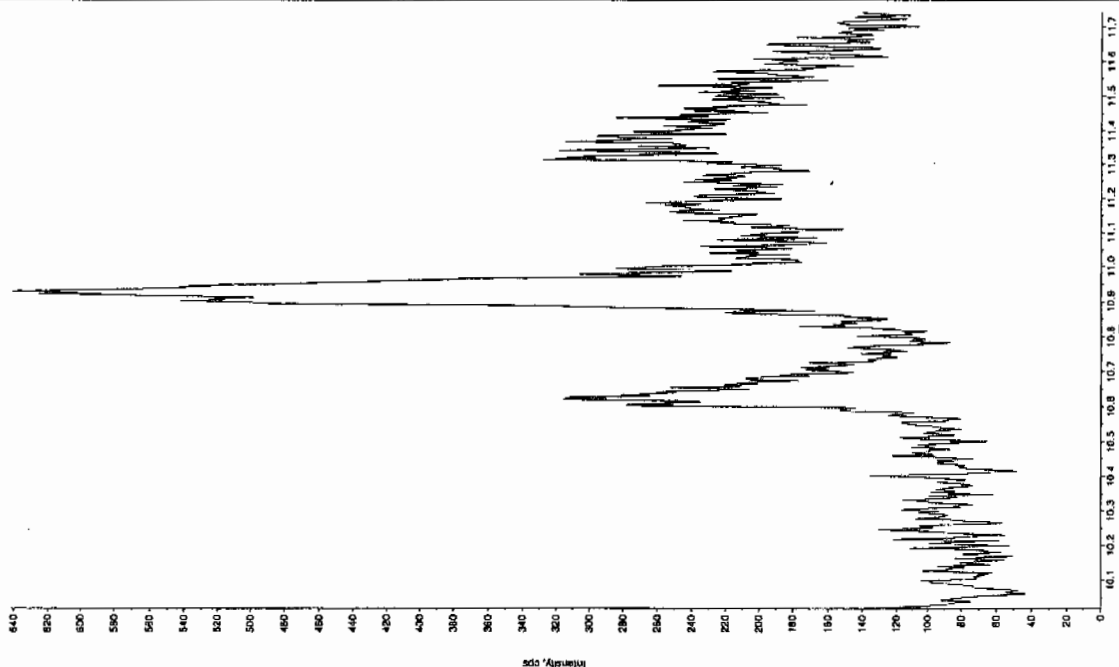
Sample Name: "244126020" Sample ID: "94007121ER" File: "EXSD1220043.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "186.048.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/23/2010
 Acq. Time: 9:25:14 PM
 Modified: No



Sample Name: "244126020" Sample ID: "94007121ER" File: "EXSD1220043.wif"
 Peak Name: "tris(o-cresyl) phosphite" 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: 1/23/2010
 Acq. Time: 9:25:14 PM
 Modified: No



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

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: 10-1131

Lab Code: GEL

Run Date: 22-JAN-10 25-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Paranname	1	2	3	4	5	6	Ave RF	RSD	Q
Data File:	EXP0125003a	EXP0125004a	EXP0125005a	EXP0125006a	EXP0125007a	EXP0125008a			
1,3-Dinitrobenzene-d4	5.832	5.787	6.227	6.458	5.56	5.758	5.937	5.651	
2,4,6-Trinitrotoluene	.291	.314	.307	.33	.315	.35	0.318	6.37	
2,4-Dinitrotoluene	.266	.236	.248	.257	.257	.261	0.254	4.281	
2,6-Dinitrotoluene	1.098	1.063	1.109	1.102	1.101	1.136	1.102	2.135	
2,6-Dinitrotoluene-d3	32.788	34.124	32.326	33.697	32.571	30.074	32.597	4.342	
2-Amino-4,6-dinitrotoluene	.357	.34	.36	.395	.383	.411	0.374	7.093	
3,4-Dinitrotoluene	.897	.857	.859	.974	.897	.964	0.908	5.56	
4-Amino-2,6-dinitrotoluene	.224	.204	.265	.278	.276	.315	0.260	15.398	
HMX	3.197	3.208	2.918	3.261	3.211	3.241	3.173	4.004	
Nitrobenzene	.797	.997	.799	.806	.871	.858	0.855	8.992	
RDX	2.287	2.428	1.935	2.024	2.303	2.216	2.199	8.428	
Tetryl	.914	.973	.905	.866	.809	.744	0.869	9.411	
m-Dinitrobenzene	1.053	1.14	1.161	1.232	1.185	1.188	1.160	5.223	
m-Nitrotoluene	.087	.096	.092	.097	.091	.099	0.094	4.837	
o-Nitrotoluene	.167	.176	.171	.158	.159	.167	0.166	4.11	
p-Nitrotoluene	.087	.091	.082	.08	.076	.081	0.083	6.385	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1131

Lab Code: GEL

Run Date: 22-JAN-10.25-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

Calibration Level:	1	2	3	4	5	6	Slope	Intercept	COD	Q
Data File:	EXP0125003a	EXP0125004a	EXP0125005a	EXP0125006a	EXP0125007a	EXP0125008a				
Parname										
1,3,5-Trinitrobenzene	651.953	1067.5	3665.01	-7077.27	12962.6	16285.9	2.817	28.102	.999	

Linear fit : $Y = mx + b$
where b is Intercept and m is slope

COD is Coefficient of Determination

Q column used to flag COD values outside of Limit (<0.990)

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1131

Lab Code: GEL

Run Date: 22-JAN-10.25-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Calibration Level:	EXP0125003a	EXP0125004a	EXP0125005a	EXP0125006a	EXP0125007a	EXP0125008a					
Data File:											
Parname:											
PETN	2319.71	4827.48	15533.2	25594.2	42172.6	47290	2	-0004964	47.5	.9972	

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

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Method: C:\MASSLYNX\New_Exp\PRO\MethDB\012510expa.mdb, Time: Mon Jan 25 16:14:14 2010
Calibration: Untitled, Time: Tue Jan 26 09:24:51 2010

Page 2

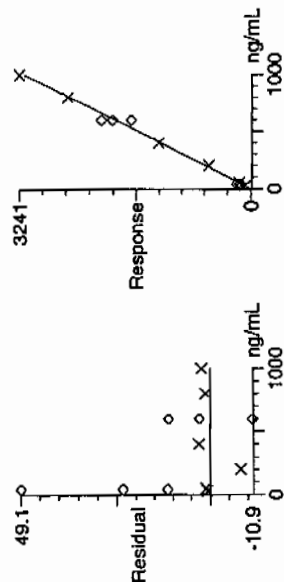
Compound name: HMX

Response Factor: 3.17253

RRF SD: 0.127021, % Relative SD: 4.00378

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

Curve type: RF



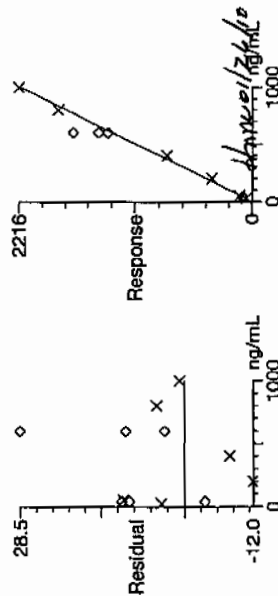
Compound name: RDX

Response Factor: 2.1986

RRF SD: 0.185302, % Relative SD: 8.42817

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

Curve type: RF

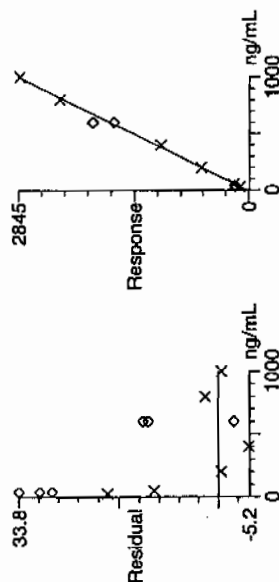


Quantity Calibration Report

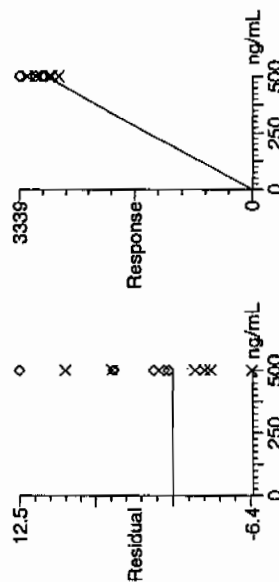
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: 135-Trinitrobenzene
 Correlation coefficient: $r = 0.999489$, $r^2 = 0.998979$
 Calibration curve: $2.81694 \times 10^5 \times \text{Area} + 28.1015$
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



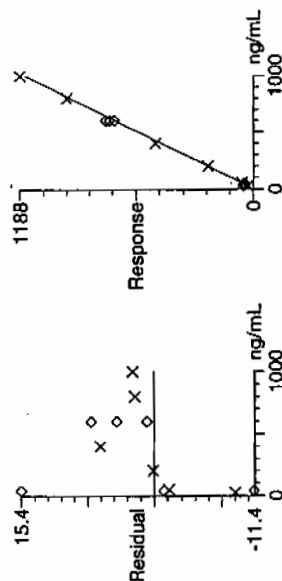
Compound name: 13-Dinitrobenzene-d4
 Response Factor: 5.9368
 RRF SD: 0.335509, % Relative SD: 5.65134
 Response type: External Std, Area
 Curve type: RIF



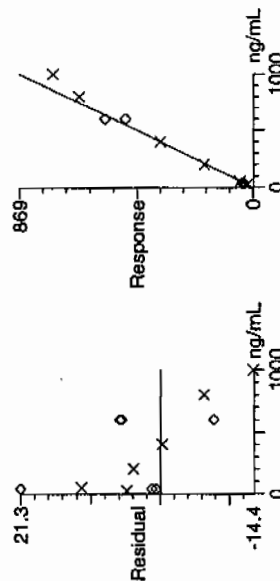
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.15998
RRF SD: 0.0605914, % Relative SD: 5.22347
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



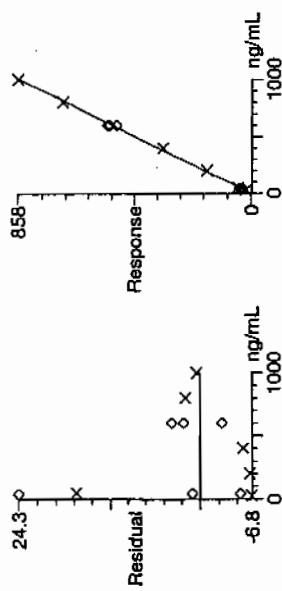
Compound name: Tetral
Response Factor: 0.868613
RRF SD: 0.0817457, % Relative SD: 9.41106
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



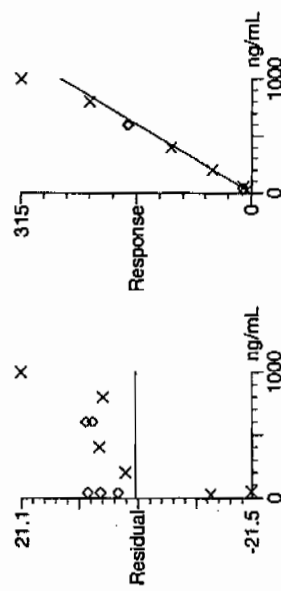
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: Nitrobenzene
Response Factor: 0.854595
RRF SD: 0.076847, % Relative SD: 8.99222
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: Rf



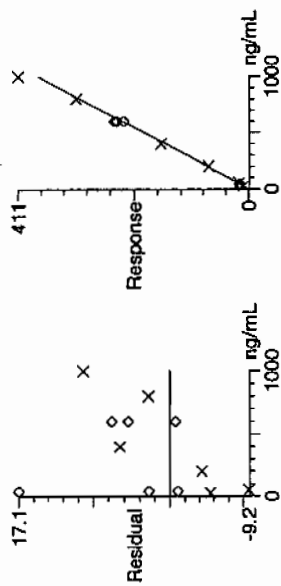
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.260514
RRF SD: 0.040113, % Relative SD: 15.3977
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Rf



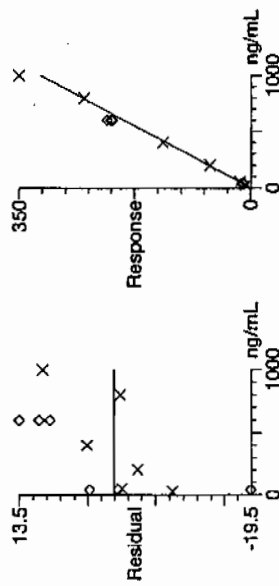
Quantify Calibration Report 3EL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.374285
RRF SD: 0.0265466, % Relative SD: 7.09263
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



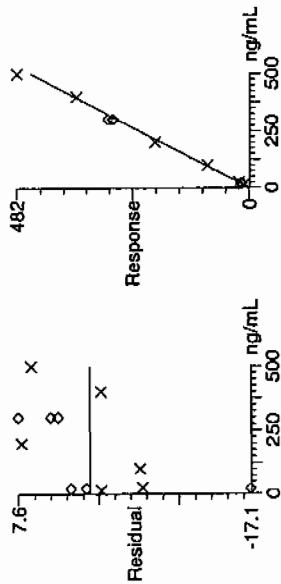
Compound name: 246-Trinitrotoluene
Response Factor: 0.318064
RRF SD: 0.020262, % Relative SD: 6.37043
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



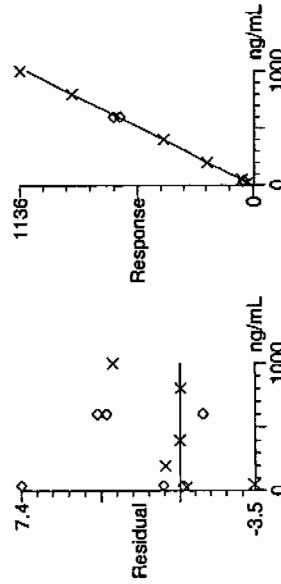
Quantify Calibration Report
 3EL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: 34-dinitrotoluene
 Response Factor: 0.908014
 RRF SD: 0.0504831, % Relative SD: 5.55973
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



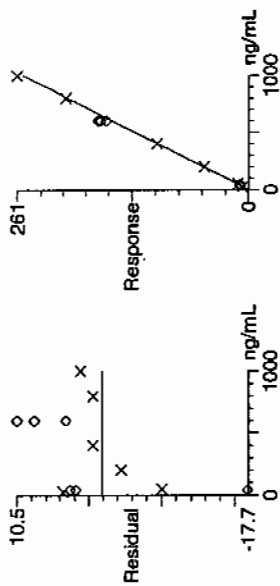
Compound name: 26-dinitrotoluene
 Response Factor: 1.10154
 RRF SD: 0.0235225, % Relative SD: 2.13541
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



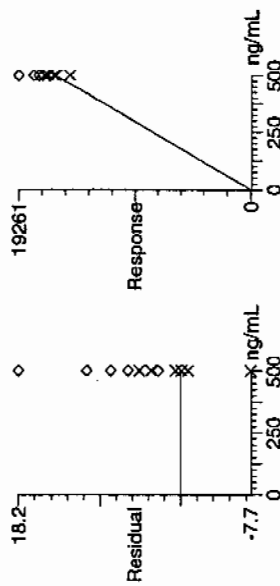
Quantify Calibration Report
 3EL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: 24-dinitrotoluene
 Response Factor: 0.254063
 RRF SD: 0.0108762, % Relative SD: 4.28092
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RIF



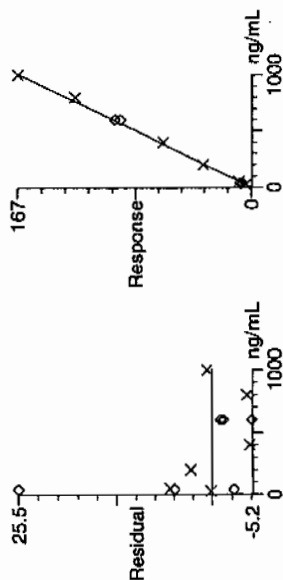
Compound name: 26-dinitrotoluene-d3
 Response Factor: 32.5967
 RRF SD: 1.41533, % Relative SD: 4.34194
 Response type: External Std, Area
 Curve type: RIF



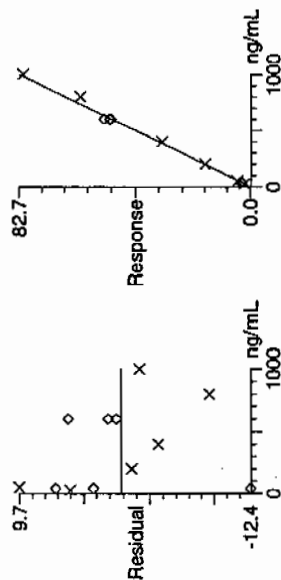
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.166303
RRF SD: 0.00683474, % Relative SD: 4.10981
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



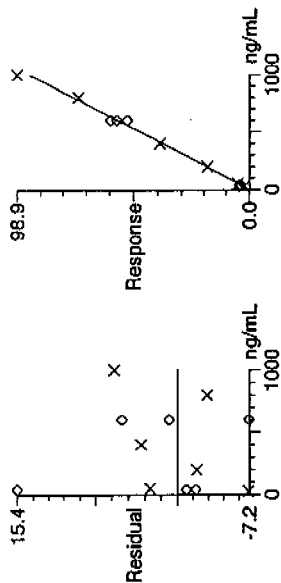
Compound name: 4-Nitrotoluene
Response Factor: 0.0826798
RRF SD: 0.00527876, % Relative SD: 6.38459
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



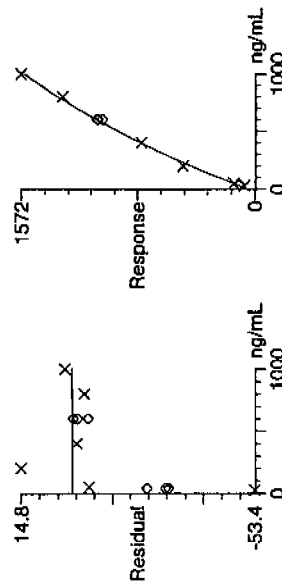
Quantify Calibration Report
 JEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Compound name: 3-Nitrotoluene
 Response Factor: 0.0933598
 RIF SD: 0.00451572, % Relative SD: 4.83691
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RIF



Compound name: PETN
 Coefficient of Determination: 0.997185
 Calibration curve: $-0.000496352 \cdot x^2 + 1.99974 \cdot x + 47.5002$
 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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0125010a

Analysis Date: 25-JAN-10 15:46

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	584.029	97	
1,3-Dinitrobenzene-d4	500	523.981	105	
2,4,6-Trinitrotoluene	600	654.852	109	
2,4-Dinitrotoluene	600	662.983	110	
2,6-Dinitrotoluene	600	623.146	104	
2,6-Dinitrotoluene-d3	500	512.68	103	
2-Amino-4,6-dinitrotoluene	600	596.059	99	
3,4-Dinitrotoluene	300	322.78	108	
4-Amino-2,6-dinitrotoluene	600	646.592	108	
HMX	600	534.345	89	
Nitrobenzene	600	582.675	97	
PETN	600	572.063	95	
RDX	600	620.495	103	
Tetryl	600	550.312	92	
m-Dinitrobenzene	600	604.886	101	
m-Nitrotoluene	600	631.363	105	
o-Nitrotoluene	600	591.123	99	
p-Nitrotoluene	600	630.068	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 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

Printed: Tue Jan 26 11:27:45 2010, Page 19 of 73

Dataset: C:\MASSLYNX\New_Exp\PRO12510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP\PRO12510expA.qld, Time: Tue Jan 26 09:24:51 2010

Date: 25-Jan-2010

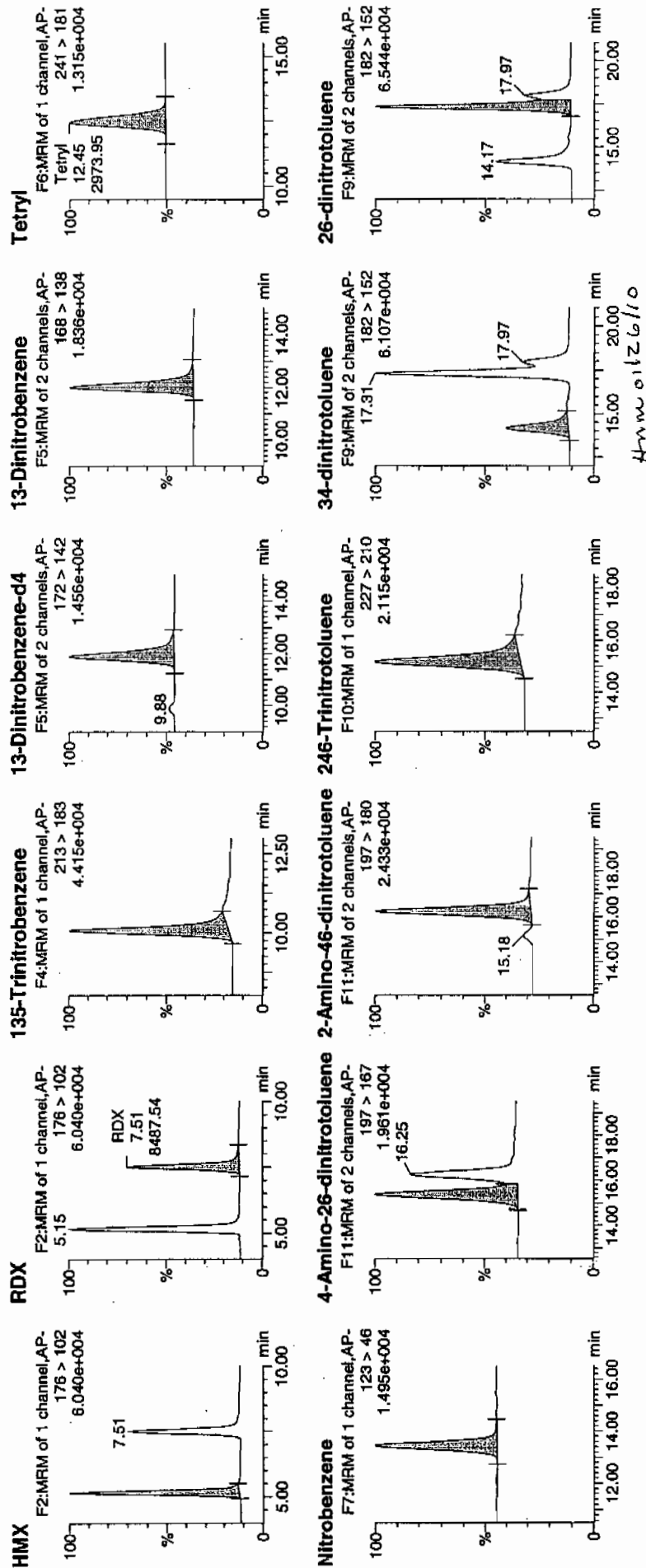
Time: 15:46:04

ID: WXX100125-07ICV

Vial: 1:1,B

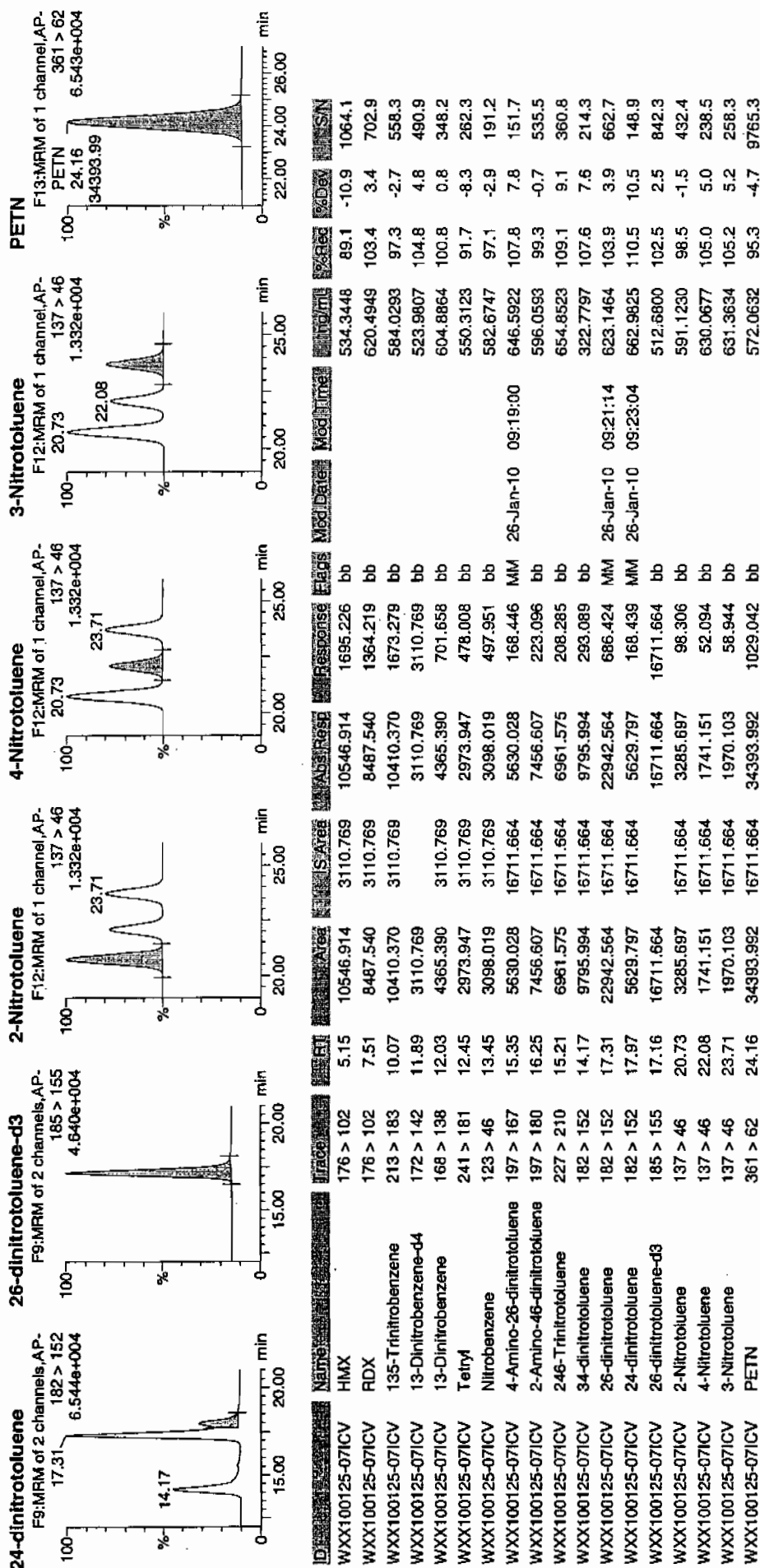
1/16/10

Page 298 of 556



Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

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GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/25/10
 Time of Injection: 1546
 Standard Number: WXX100125-07ICV
 Data File: EXP0125010a

HMX	89.1
RDX	103.4
135-TNB	97.3
13-DNB	100.8
Tetryl	91.7
Nitrobenzene	97.1
4A-26-DNT	107.8
2A-46-DNT	99.3
246-TNT	109.1
34-DNT(surr)	107.6
26-DNT	103.9
24-DNT	110.5
2-NT	98.5
4-NT	105.0
3-NT	105.2
PETN	95.3

*not
1/26/10*

Total 1621.6

Average 101.4

Hmm 01/26/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1131

Lab Code: GEL

Run Date: 22-JAN-10 25-JAN-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H80

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS01220003.wiff	EXS01220004.wiff	EXS01220005.wiff	EXS01220006.wiff	EXS01220007.wiff	EXS01220008.wiff	EXS01220009.wiff					
Parname:												
2,4-Diamino-6-nitrotoluene	124000	258000	661000	1310000	1950000	2550000	5330000	15600	2500	.077	.9999	
2,6-Diamino-4-nitrotoluene	186000	406000	951000	1950000	2910000	3940000	7760000	-11400	3950	-.032	1	
3,4-Dinitrotoluene	309000	625000	1570000	2960000	4570000	5790000	11100000	-11100	13200	-2.07	.9978	
3,5-Dinitroaniline	489000	956000	2410000	4600000	6490000	7980000	14700000	134000	8980	-.867	.9995	
TATB	68400	140000	352000	695000	1040000	1380000	2730000	954	1400	-.017	1	
tris(o-cresyl) phosphate	1260000	2610000	6150000	11500000	16300000	20600000	32800000	148000	24700	-4.21	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

012210ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	954			
a1	1.4e+003			
a2	-0.017			
Correlation coefficient 1.0000				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	1.34e+005			
a1	8.98e+003			
a2	-0.867			
Correlation coefficient 0.9995				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.11e+004			
a1	1.32e+004			
a2	-2.07			
Correlation coefficient 0.9978				
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	-1.14e+004			
a1	3.95e+003			
a2	-0.032			
Correlation coefficient 1.0000				
Use Area				

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

Alan
1/25/10

thru 1/25/10

012210ICAL

Iterate No

None

weighting

Quadratic

Fit

a0 1.56e+004

a1 2.5e+003

a2 0.0771

Correlation coefficient 0.9999

Use Area

Peak Name: tris(o-cresyl) phosphate

No Internal Standard

Q1/Q3 Masses: 369.15/91.00 amu

Iterate No

None

weighting

Quadratic

Fit

a0 1.48e+005

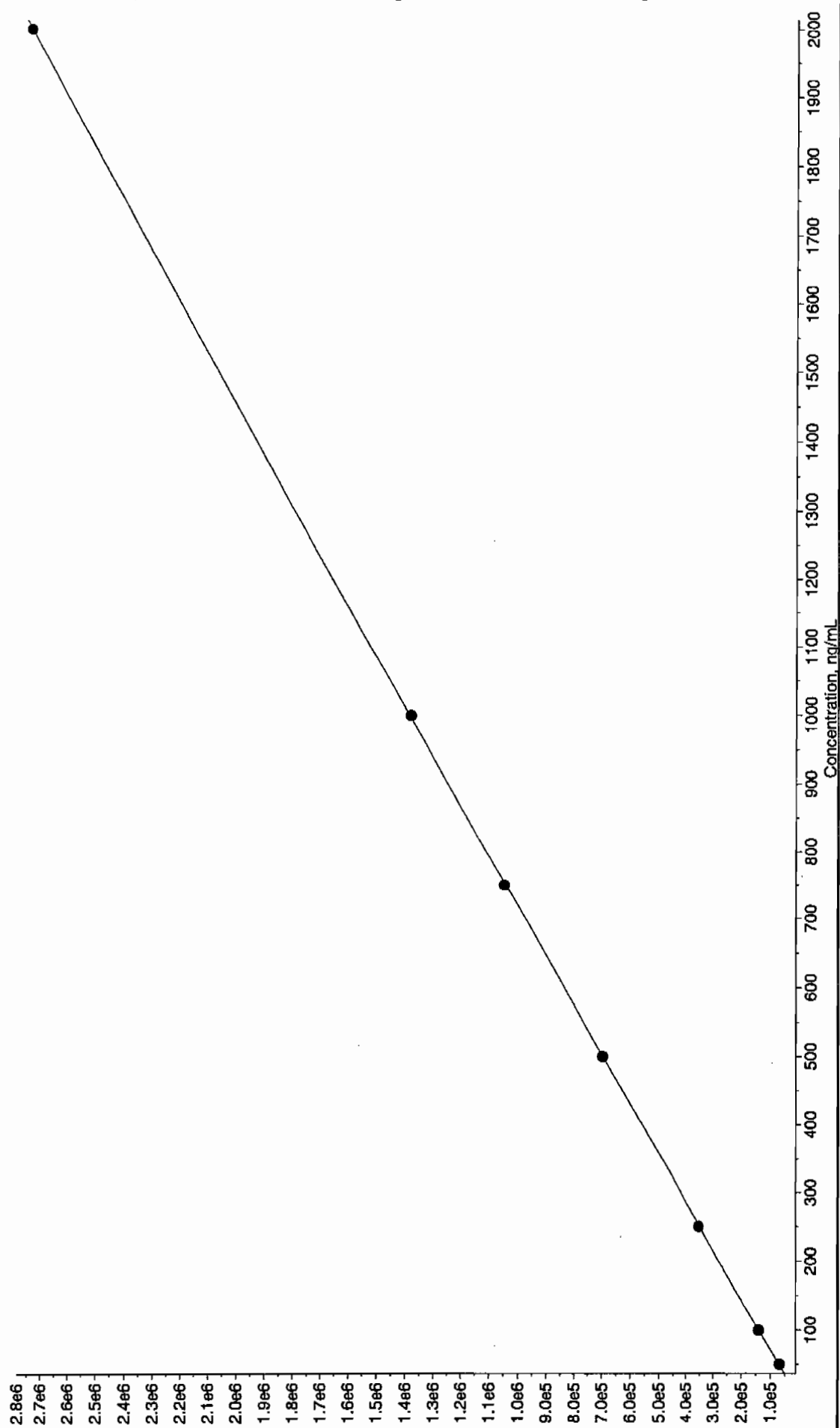
a1 2.47e+004

a2 -4.21

Correlation coefficient 1.0000

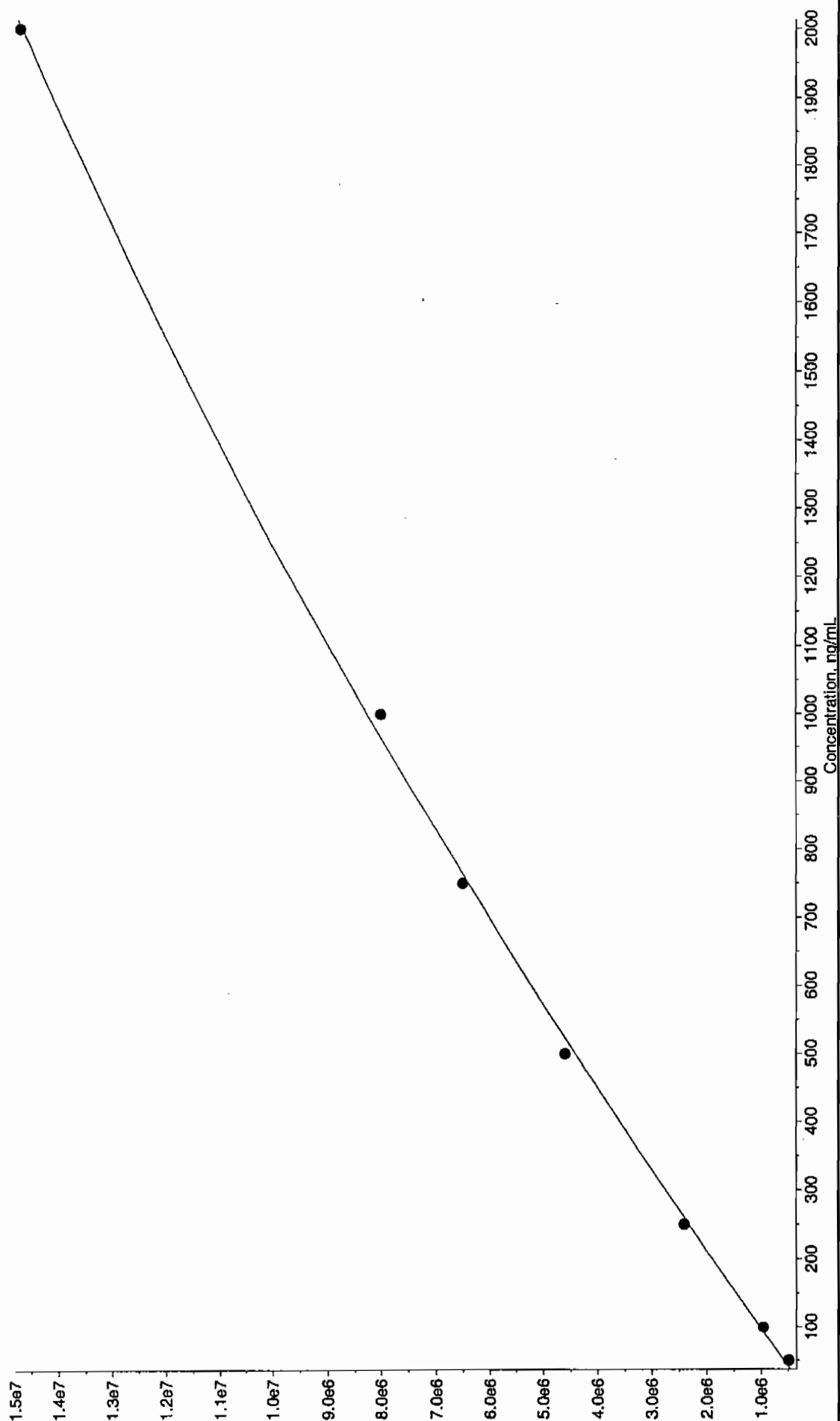
Use Area

012210.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = -0.017 x^2 + 1.4e+003 x + 954$ ($r = 1.0000$)



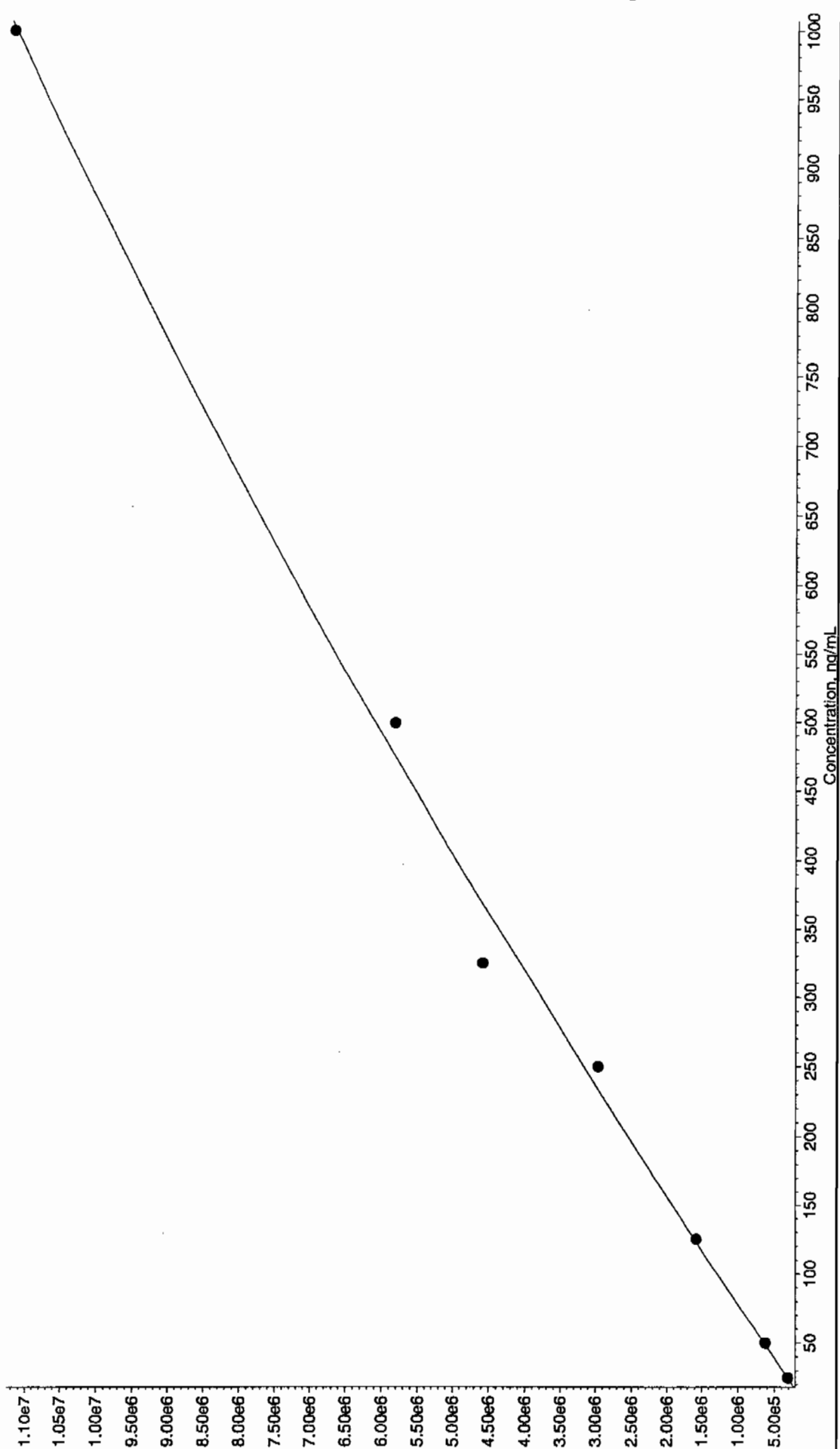
IEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

I 012210.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.867 x^2 + 8.98e+003 x + 1.34e+005$ ($r = 0.9995$)



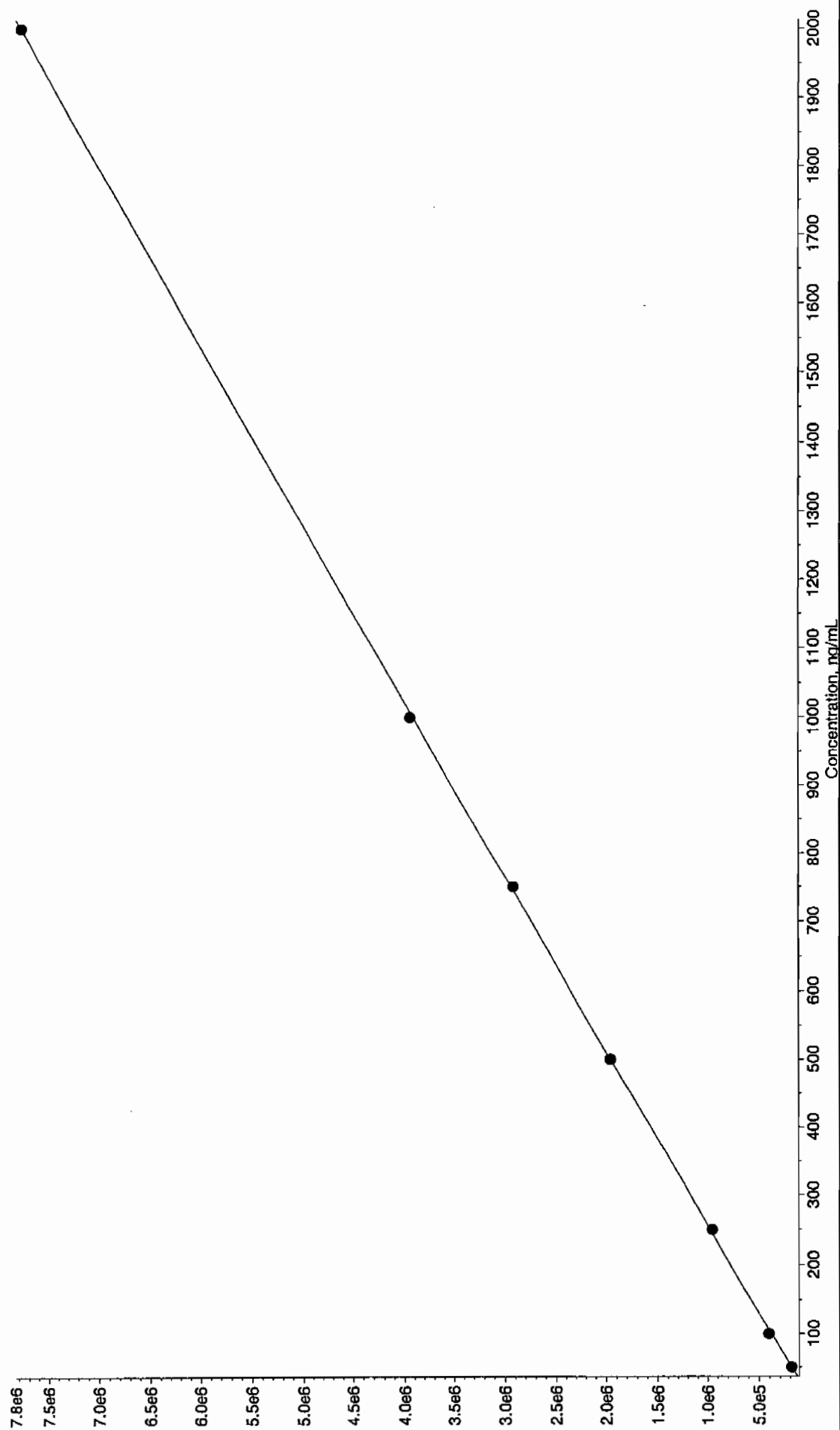
DEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

[012210.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.07 x^2 + 1.32e+004 x + -1.11e+004$ ($r = 0.9978$)



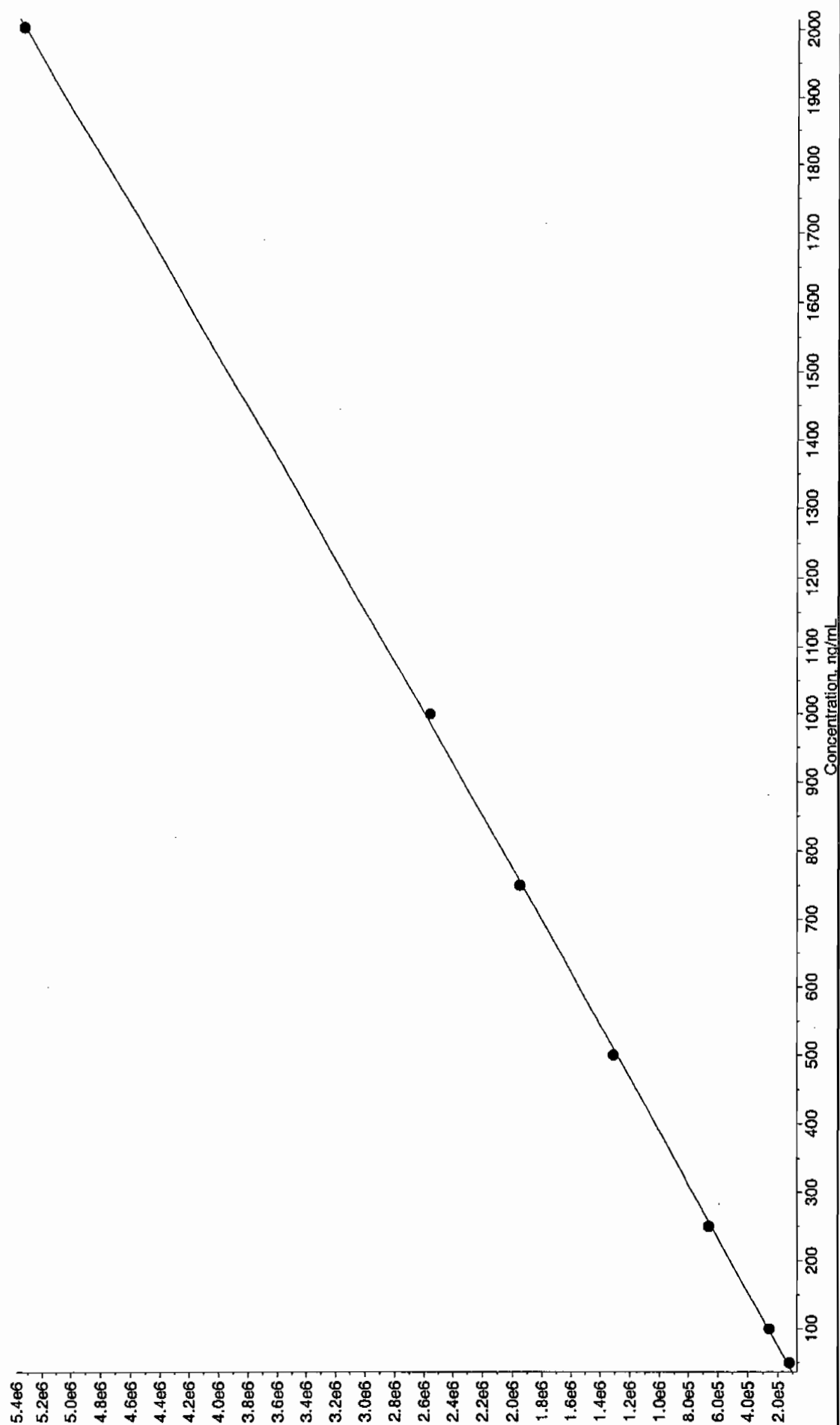
TEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

012210.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.032 x^2 + 3.95e+003 x + -1.14e+004$ ($r = 1.0000$)



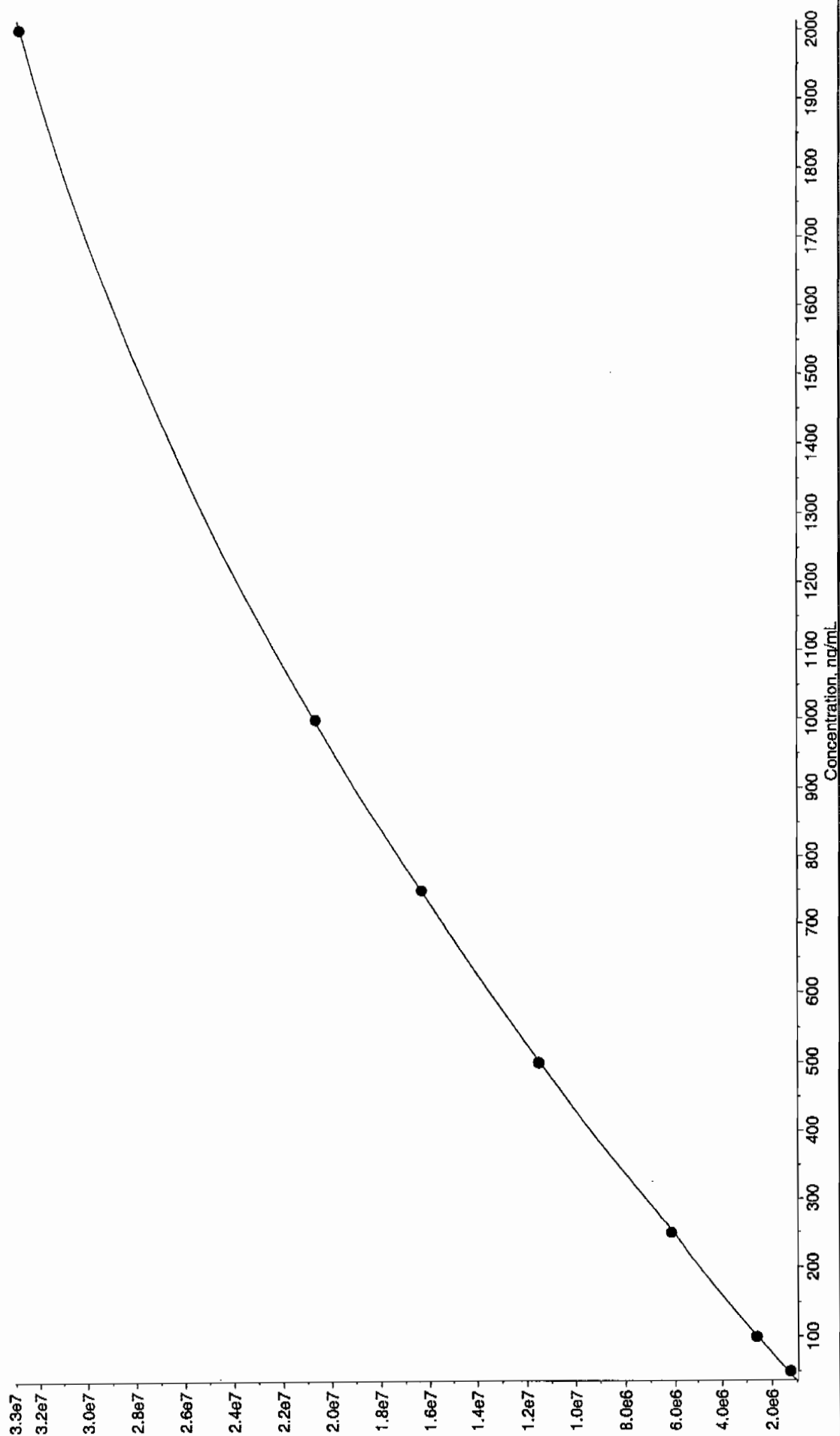
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

012210.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = 0.0771 x^2 + 2.5e+003 x + 1.56e+004$ ($r = 0.9999$)



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

[012210.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -4.21 x^2 + 2.47e+004 x + 1.48e+005$ ($r = 1.0000$)



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

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS01220011.wiff

Analysis Date: 22-JAN-10 13:02

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	493	99	
2,6-Diamino-4-nitrotoluene	500	496	99	
3,4-Dinitrotoluene	250	226	90	
3,5-Dinitroaniline	500	507	101	
TATB	500	492	99	
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 ,

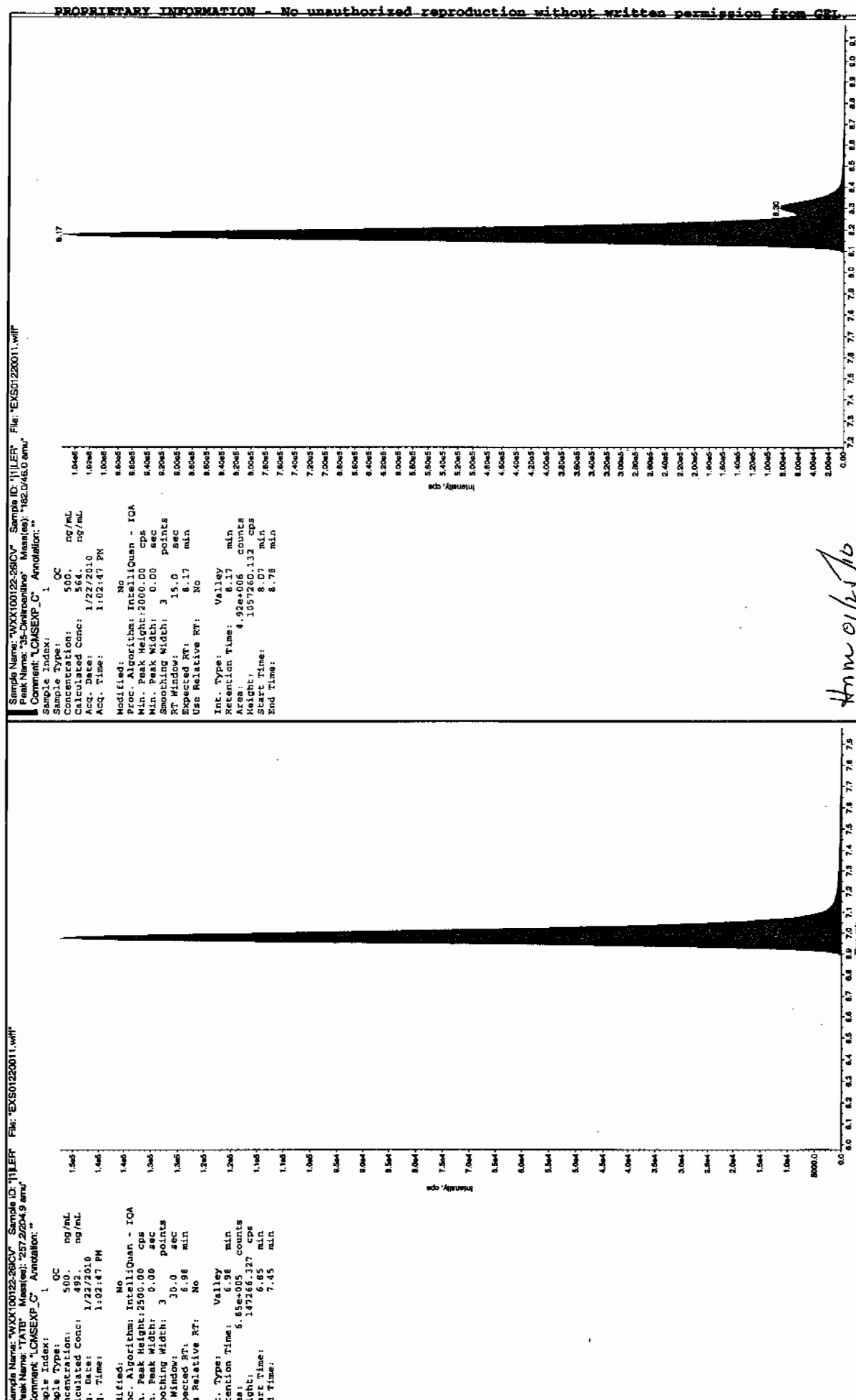
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

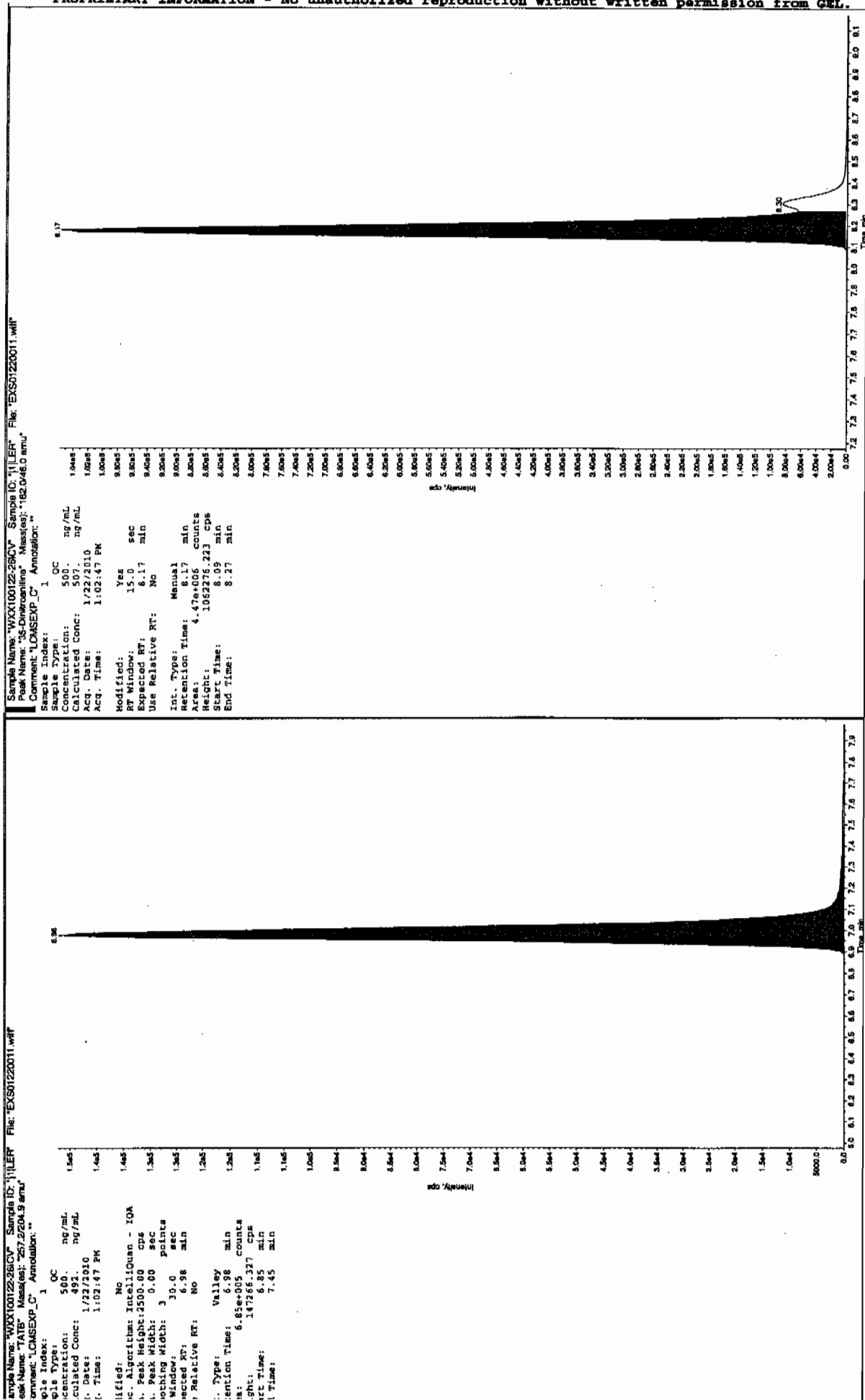
* Value outside of Recovery Limits

Before clear 125110



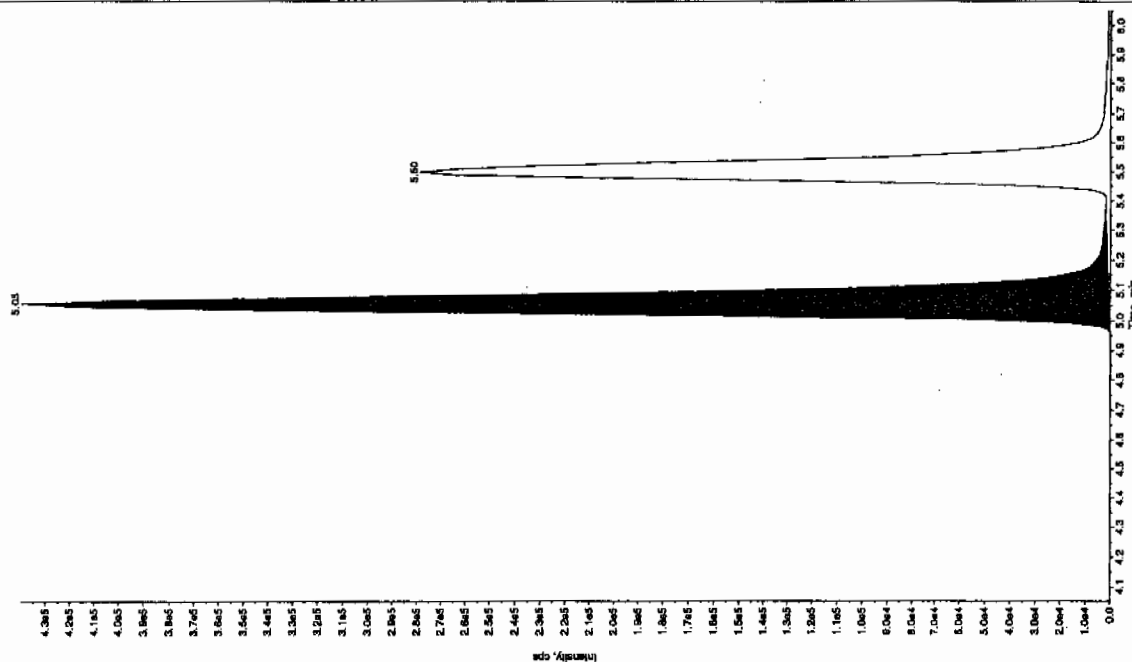
Am 01/25/10

after scan 1125110



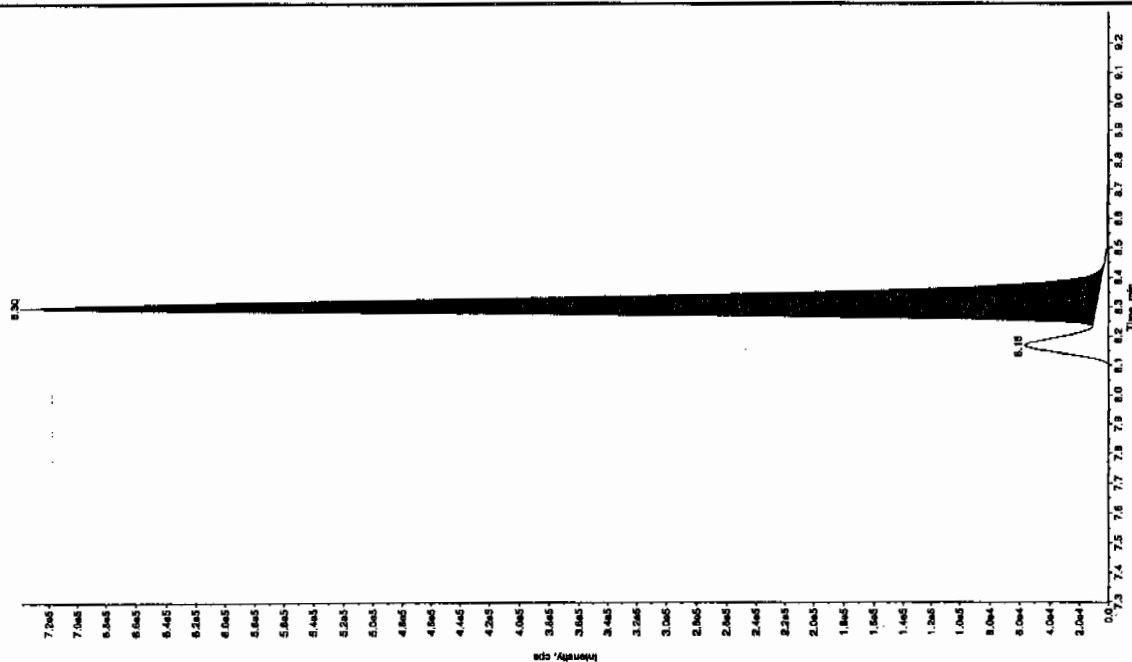
Sample Name: WVX100122-250V Sample ID: 11LEP File: EX501220011.wif
 Peak Name: 25-Diamino-4-nitrobenzoic Mass(es): 156.046.0 amu
 Comment: LCMSXP_C Annotation: **

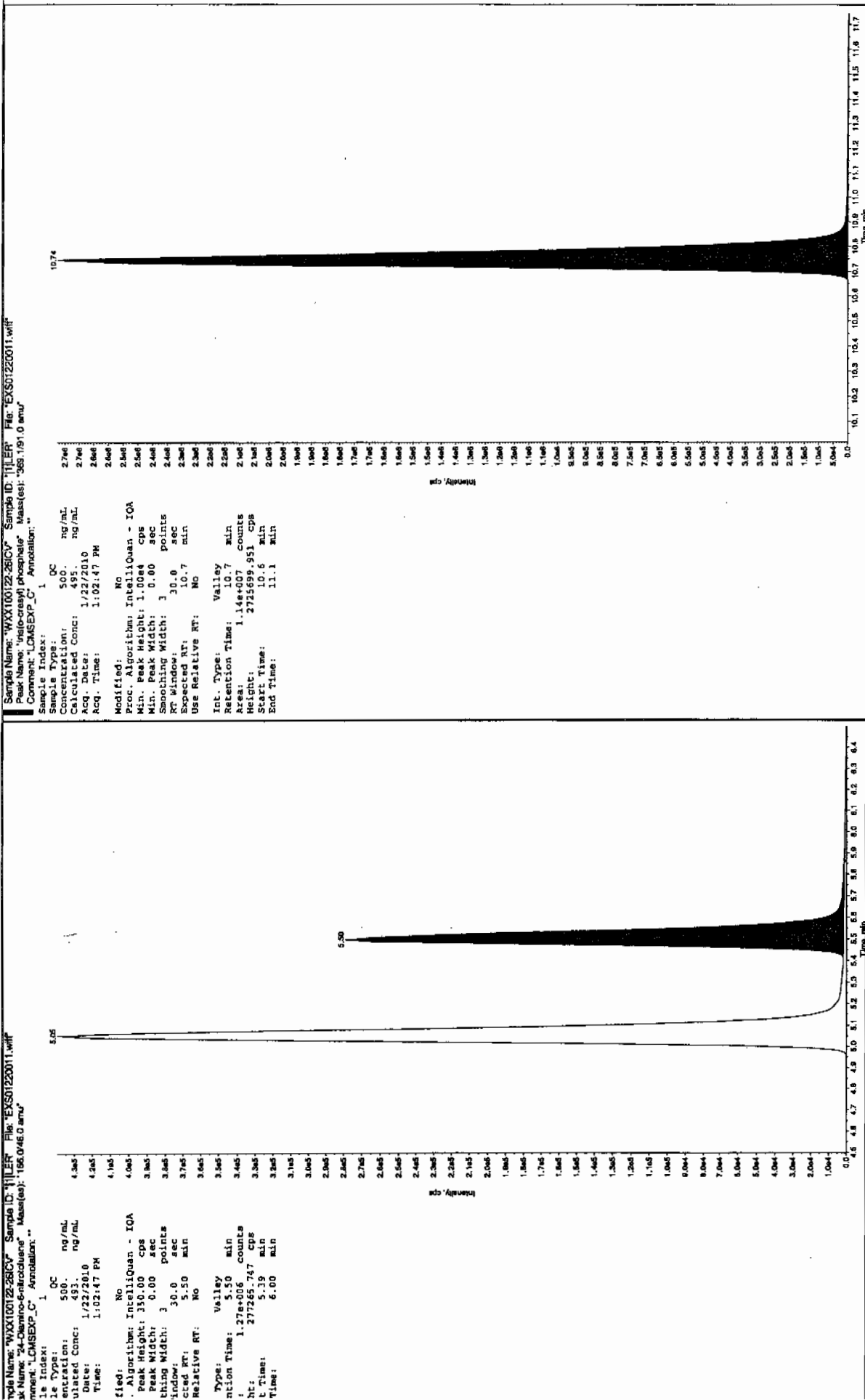
Sample Index: 1
 Sample Type: OC
 Concentration: 500 ng/mL
 Calculated Conc: 496 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 1:02:47 PM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 5.05 min
 Area: 1.94e+006 counts
 Height: 439347.626 cps
 Start Time: 4.95 min
 End Time: 5.14 min



Sample Name: WVX100122-250V Sample ID: 11LEP File: EX501220011.wif
 Peak Name: 25-Diamino-4-nitrobenzoic Mass(es): 152.151.9 amu
 Comment: LCMSXP_C Annotation: **

Sample Index: 1
 Sample Type: OC
 Concentration: 250 ng/mL
 Calculated Conc: 226 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 1:02:47 PM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.30 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 8.30 min
 Area: 2.47e+006 counts
 Height: 730250.681 cps
 Start Time: 8.24 min
 End Time: 8.44 min





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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0125012a

Analysis Date: 25-JAN-10 16:45

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	53.525	134	*
1,3-Dinitrobenzene-d4	500	523.569	105	
2,4,6-Trinitrotoluene	40	32.202	81	
2,4-Dinitrotoluene	40	32.904	82	
2,6-Dinitrotoluene	40	42.96	107	
2,6-Dinitrotoluene-d3	500	553.084	111	
2-Amino-4,6-dinitrotoluene	40	46.855	117	
3,4-Dinitrotoluene	20	16.575	83	
4-Amino-2,6-dinitrotoluene	40	41.308	103	
HMX	40	44.507	111	
Nitrobenzene	40	37.891	95	
PETN	40	31.16	78	
RDX	40	38.595	96	
Tetryl	40	40.286	101	
m-Dinitrobenzene	40	39.556	99	
m-Nitrotoluene	40	39.269	98	
o-Nitrotoluene	40	42.003	105	
p-Nitrotoluene	40	41.044	103	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125012a

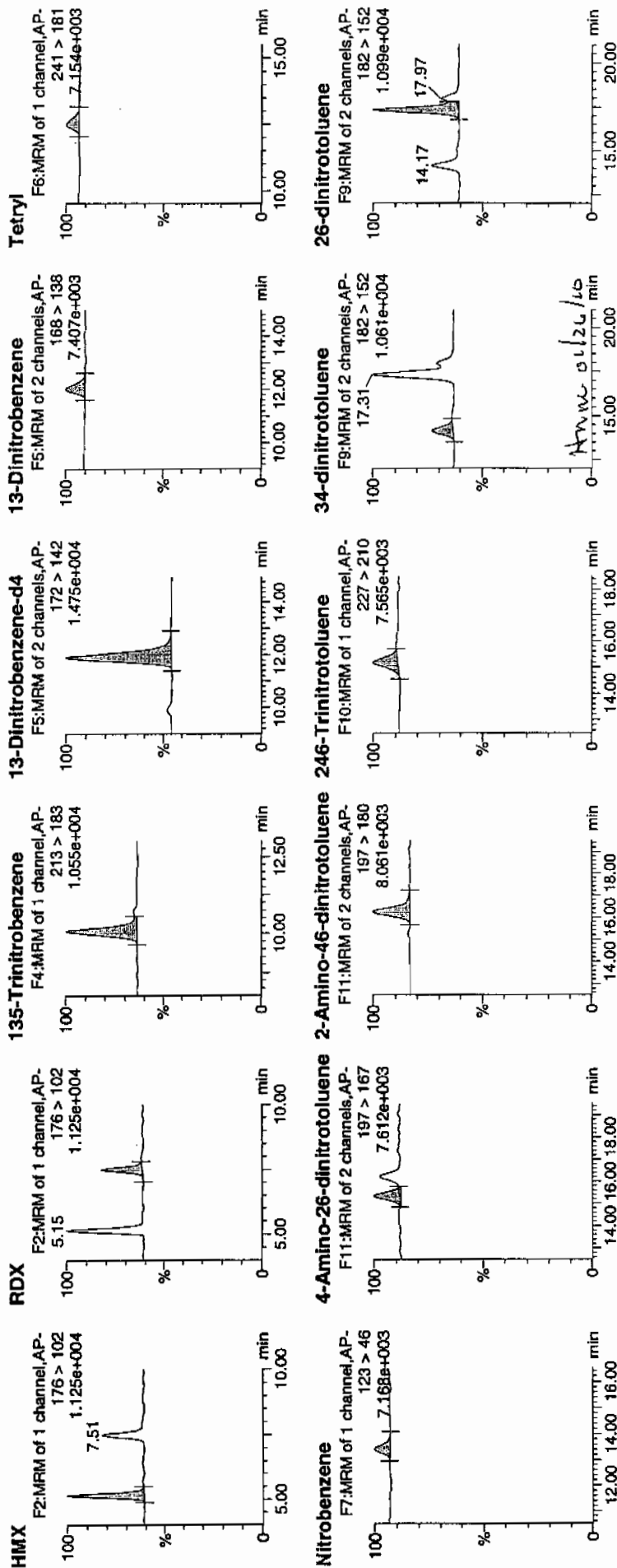
Date: 25-Jan-2010

Time: 16:45:01

ID: WXX100125-08CRI

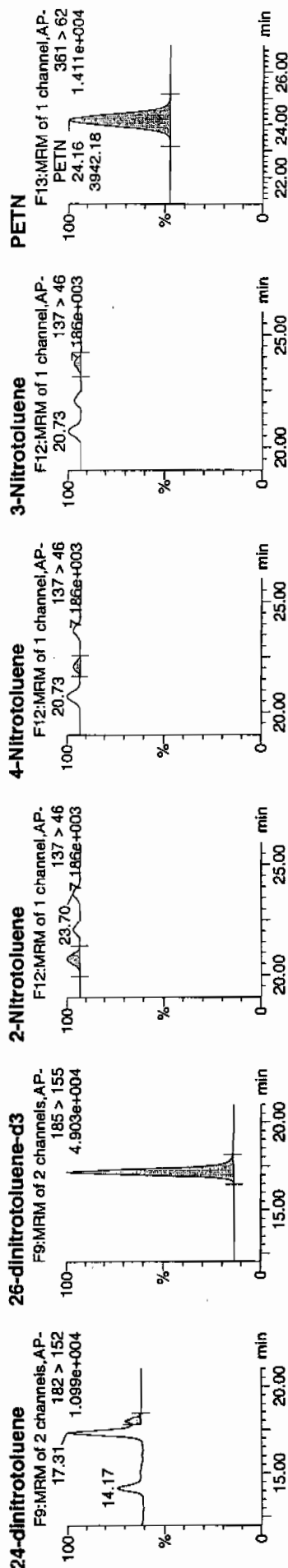
Vial: 1:1,C

1/26/10
1/26/10



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

Dataset: C:\MASSLYNX\New_Exp\PRO1012510expA.qld, Time: Tue Jan 26 09:24:51 2010



ID	Name	Trace	RT	Area	SI/AB	Abt Resp	Response	Flags	Mod	Date	Mod	Time	Rec	Dev	SN
WXX100125-08CRI	HMx	176 > 102	5.15	877.792	3108.327	877.792	141.200	bb					44.5071	111.3	76.6
WXX100125-08CRI	RDX	176 > 102	7.51	527.508	3108.327	527.508	84.854	bb					38.5946	96.5	40.9
WXX100125-08CRI	135-Trinitrobenzene	213 > 183	10.07	1112.023	3108.327	1112.023	178.878	bd					53.5249	133.8	118.7
WXX100125-08CRI	13-Dinitrobenzene-d4	172 > 142	11.89	3108.327		3108.327	3108.327	bb					523.5694	104.7	149.7
WXX100125-08CRI	13-Dinitrobenzene	168 > 138	12.00	285.243	3108.327	285.243	45.884	bb					39.5555	98.9	21.1
WXX100125-08CRI	Tetryl	241 > 181	12.48	217.540	3108.327	217.540	34.993	bb					40.2862	100.7	24.2
WXX100125-08CRI	Nitrobenzene	123 > 46	13.41	201.306	3108.327	201.306	32.382	bb					37.8913	94.7	25.0
WXX100125-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.35	388.025	18028.699	388.025	10.761	MM	26-Jan-10	09:19:05			41.3081	103.3	20.9
WXX100125-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.25	632.342	18028.699	632.342	17.537	bb					46.8550	117.1	62.5
WXX100125-08CRI	246-Trinitrotoluene	227 > 210	15.17	369.309	18028.699	369.309	10.242	bb					32.2019	80.5	22.6
WXX100125-08CRI	34-dinitrotoluene	182 > 152	14.16	542.658	18028.699	542.658	15.050	bb					16.5745	82.9	29.3
WXX100125-08CRI	26-dinitrotoluene	182 > 152	17.31	1706.312	18028.699	1706.312	47.322	MM	26-Jan-10	09:21:21			42.9598	107.4	126.9
WXX100125-08CRI	24-dinitrotoluene	182 > 152	17.97	301.425	18028.699	301.425	8.360	MM	26-Jan-10	09:23:11			32.9036	82.3	26.1
WXX100125-08CRI	26-dinitrotoluene-d3	185 > 155	17.16	18028.699		18028.699	18028.699	bb					553.0839	110.6	1520.6
WXX100125-08CRI	2-Nitrotoluene	137 > 46	20.73	251.870	18028.699	251.870	6.985	bb					42.0032	105.0	66.0
WXX100125-08CRI	4-Nitrotoluene	137 > 46	22.08	122.362	18028.699	122.362	3.394	bb					41.0443	102.6	34.7
WXX100125-08CRI	3-Nitrotoluene	137 > 46	23.69	132.192	18028.699	132.192	3.666	bb					39.2691	98.2	34.1
WXX100125-08CRI	PETN	361 > 62	24.16	3942.182	18028.699	3942.182	109.331	bb					31.1604	77.9	564.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/25/10
 Time of Injection 1645
 Standard Number WXX100125-08CRI
 Data File EXP0125012a

HMX	111.3
RDX	96.5
135-TNB	133.8
13-DNB	98.9
Tetryl	100.7
Nitrobenzene	94.7
4A-26-DNT	103.3
2A-46-DNT	117.1
246-TNT	80.5
34-DNT(surr)	82.9
26-DNT	107.4
24-DNT	82.3
2-NT	105.0
4-NT	102.6
3-NT	98.2
PETN	77.9

*111.7
1/26/10*

Total 1593.1

Average 99.6

*477.7
1/26/10*

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0125023a

Analysis Date: 25-JAN-10 22:09

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	671.995	112	
1,3-Dinitrobenzene-d4	500	501.648	100	
2,4,6-Trinitrotoluene	600	681.012	114	
2,4-Dinitrotoluene	600	650.509	108	
2,6-Dinitrotoluene	600	620.709	103	
2,6-Dinitrotoluene-d3	500	529.849	106	
2-Amino-4,6-dinitrotoluene	600	638.815	106	
3,4-Dinitrotoluene	300	312.536	104	
4-Amino-2,6-dinitrotoluene	600	654.415	109	
HMX	600	616.521	103	
Nitrobenzene	600	622.507	104	
PETN	600	590.603	98	
RDX	600	659.536	110	
Tetryl	600	635.812	106	
m-Dinitrobenzene	600	625.794	104	
m-Nitrotoluene	600	604.626	101	
o-Nitrotoluene	600	593.315	99	
p-Nitrotoluene	600	607.304	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

Printed: Tue Jan 26 11:27:45 2010, Page 45 of 73

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125023a

Date: 25-Jan-2010

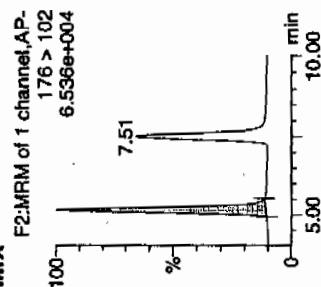
Time: 22:09:44

ID: WXX100125-07CCV

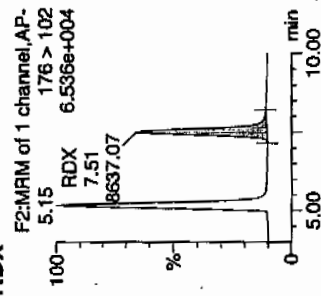
Vial: 1:1,B

WXX
12/10

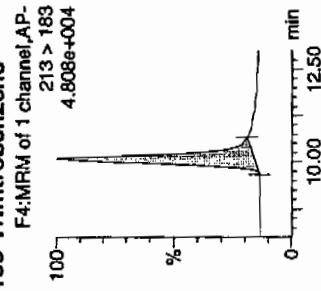
HMX



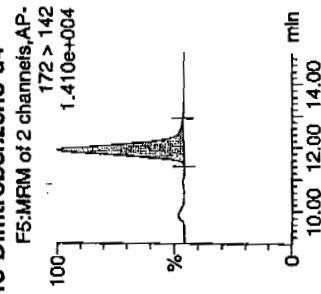
RDX



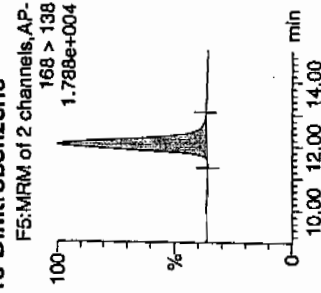
135-Trinitrobenzene



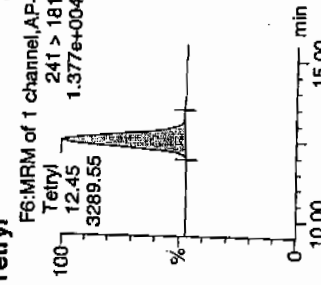
13-Dinitrobenzene-d4



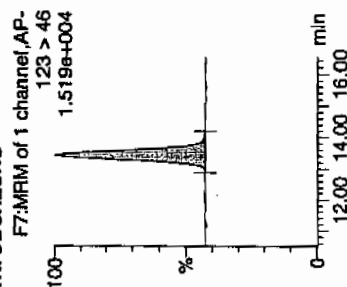
13-Dinitrobenzene



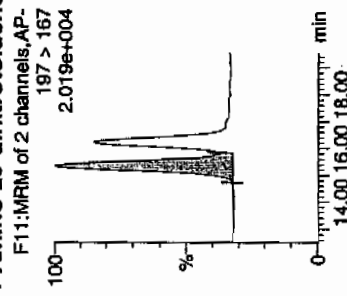
Tetryl



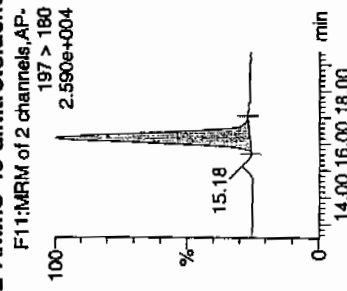
Nitrobenzene



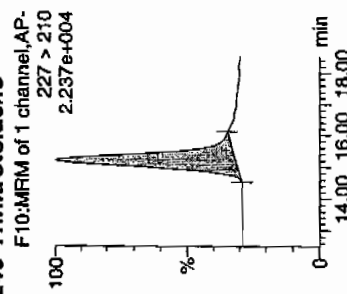
4-Amino-26-dinitrotoluene



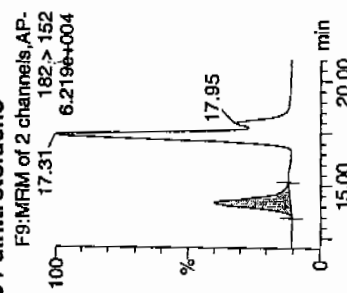
2-Amino-46-dinitrotoluene



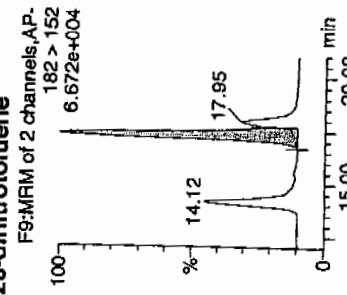
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



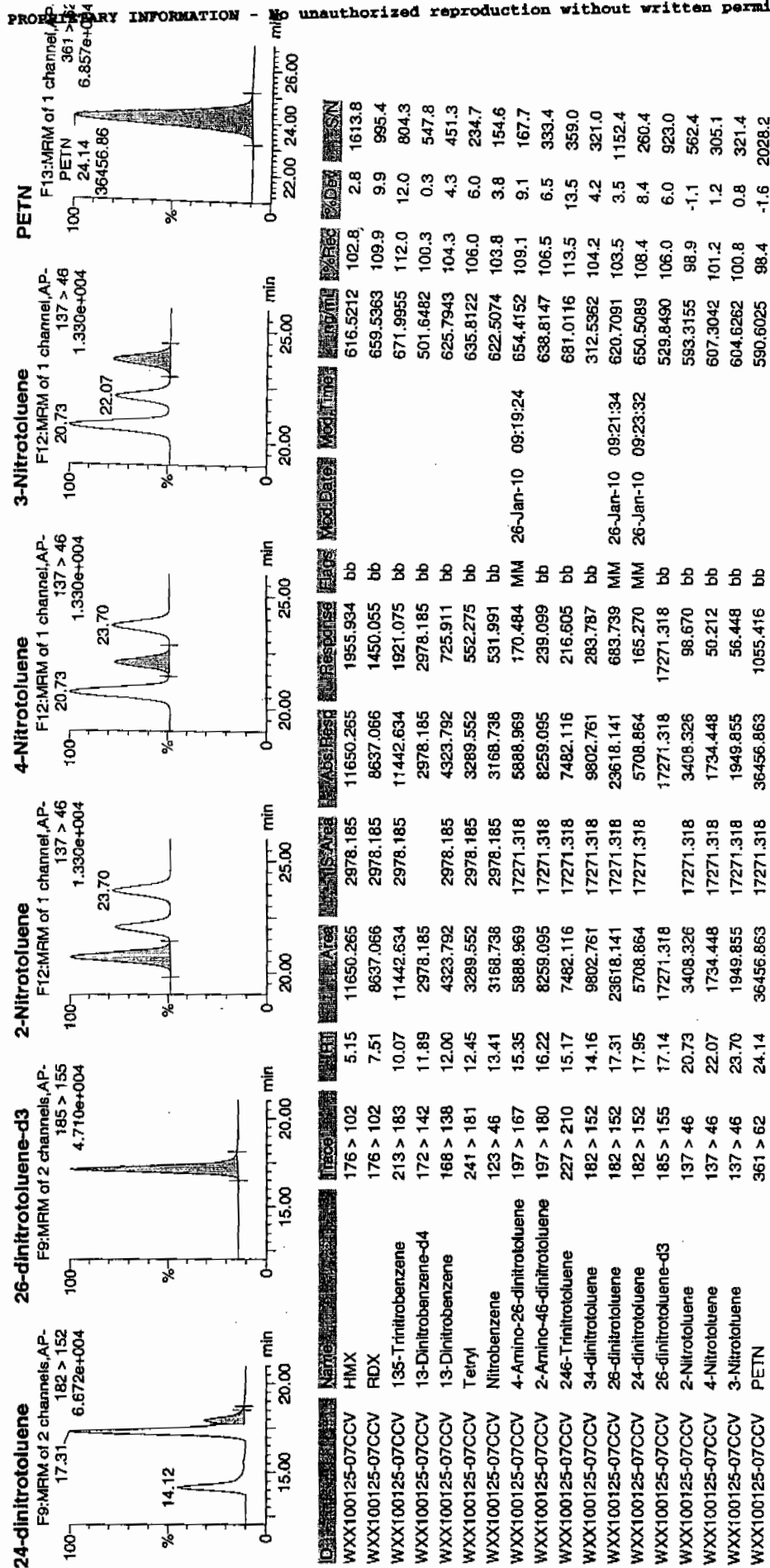
WXX
01/26/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Jan 26 11:27:45 2010, Page 46 of 73

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/25/10
 Time of Injection: 2209
 Standard Number: WXX100125-07CCV
 Data File: EXP0125023a

HMX	102.8
RDX	109.9
135-TNB	112.0
13-DNB	104.3
Tetryl	106.0
Nitrobenzene	103.8
4A-26-DNT	109.1
2A-46-DNT	106.5
246-TNT	113.5
34-DNT(surr)	104.2
26-DNT	103.5
24-DNT	108.4
2-NT	98.9
4-NT	101.2
3-NT	100.8
PETN	98.4

Handwritten: 11/26/10

Total 1683.3

Average 105.2

Handwritten: 01/26/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0125025a

Analysis Date: 25-JAN-10 23:08

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	51.275	128	
1,3-Dinitrobenzene-d4	500	562.36	112	
2,4,6-Trinitrotoluene	40	41.402	104	
2,4-Dinitrotoluene	40	41.568	104	
2,6-Dinitrotoluene	40	40.317	101	
2,6-Dinitrotoluene-d3	500	590.895	118	
2-Amino-4,6-dinitrotoluene	40	40.944	102	
3,4-Dinitrotoluene	20	20.089	100	
4-Amino-2,6-dinitrotoluene	40	43.494	109	
HMX	40	59.635	149	*
Nitrobenzene	40	49.71	124	
PETN	40	28.625	72	
RDX	40	43.744	109	
Tetryl	40	40.54	101	
m-Dinitrobenzene	40	46.142	115	
m-Nitrotoluene	40	46.171	115	
o-Nitrotoluene	40	38.888	97	
p-Nitrotoluene	40	35.04	88	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125025a

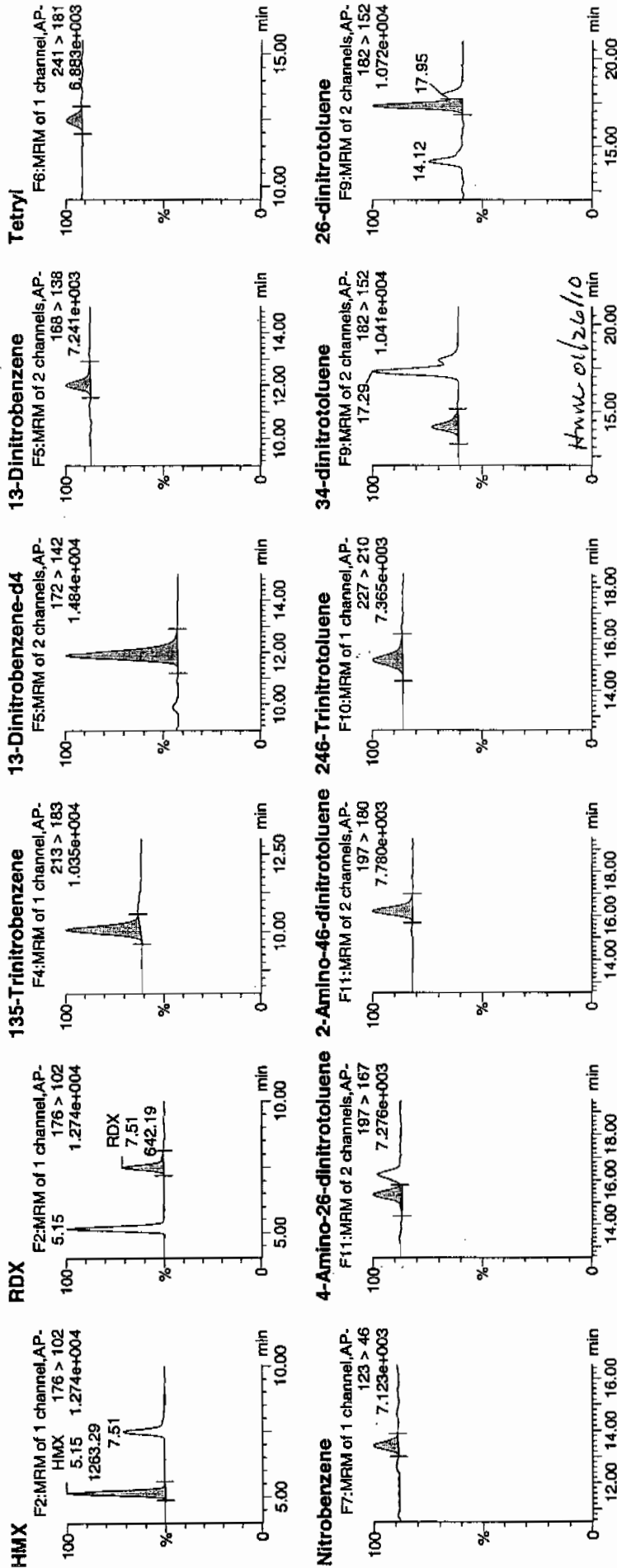
Date: 25-Jan-2010

Time: 23:08:48

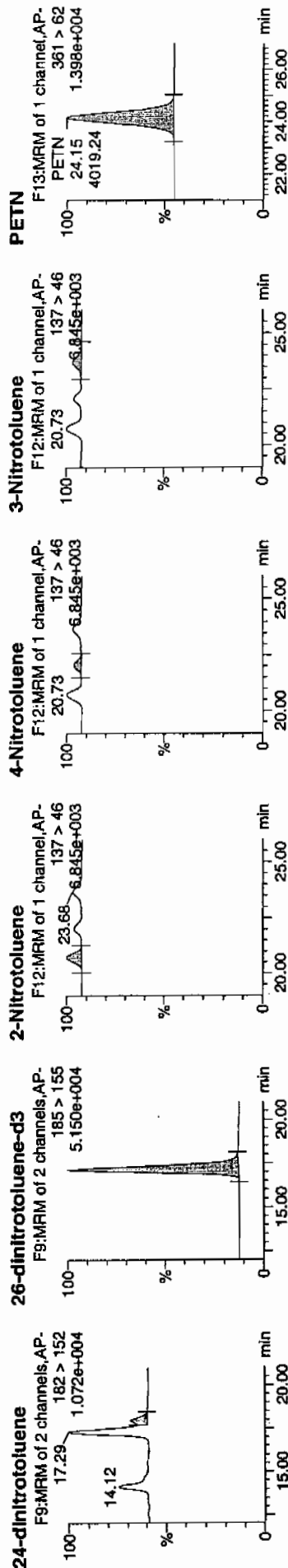
ID: WXX100125-08CRI

Vial: 1:1,C

11/16/10



Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010



Name	ID	Trace	RT	Area	Area Ratio	Area Ratio SD	Response	Mass	Mod Date	Mod Time	Intensity	Area Rec	%Dev	ISN
HMX	WXX100125-08CRI	176 > 102	5.15	1263.285	3338.619	1263.285	189.193	bb	26-Jan-10	09:19:33	59.6346	149.1	49.1	338.5
RDX	WXX100125-08CRI	176 > 102	7.51	642.190	3338.619	642.190	96.176	bb			43.7442	109.4	9.4	141.4
135-Trinitrobenzene	WXX100125-08CRI	213 > 183	10.07	1152.094	3338.619	1152.094	172.541	bb			51.2751	128.2	28.2	131.8
13-Dinitrobenzene-d4	WXX100125-08CRI	172 > 142	11.89	3338.619	3338.619	3338.619	3338.619	bb			562.3600	112.5	12.5	430.5
13-Dinitrobenzene	WXX100125-08CRI	168 > 138	12.00	357.395	3338.619	357.395	53.524	bb			46.1424	115.4	15.4	27.5
Tetryl	WXX100125-08CRI	241 > 181	12.45	235.130	3338.619	235.130	35.214	bb			40.5401	101.4	1.4	19.3
Nitrobenzene	WXX100125-08CRI	123 > 46	13.41	283.661	3338.619	283.661	42.482	bb			49.7099	124.3	24.3	33.4
4-Amino-26-dinitrotoluene	WXX100125-08CRI	197 > 167	15.35	436.484	19261.230	436.484	11.331	MM	26-Jan-10	09:19:33	43.4935	108.7	8.7	25.6
2-Amino-46-dinitrotoluene	WXX100125-08CRI	197 > 180	16.22	590.352	19261.230	590.352	15.325	bb			40.9444	102.4	2.4	89.9
246-Trinitrotoluene	WXX100125-08CRI	227 > 210	15.21	507.277	19261.230	507.277	13.168	bb			41.4016	103.5	3.5	33.5
34-dinitrotoluene	WXX100125-08CRI	182 > 152	14.16	702.684	19261.230	702.684	18.241	bb			20.0888	100.4	0.4	47.0
26-dinitrotoluene	WXX100125-08CRI	182 > 152	17.29	1710.801	19261.230	1710.801	44.410	MM	26-Jan-10	09:21:41	40.3165	100.8	0.8	103.8
24-dinitrotoluene	WXX100125-08CRI	182 > 152	17.95	406.830	19261.230	406.830	10.561	MM	26-Jan-10	09:23:39	41.5679	103.9	3.9	23.1
26-dinitrotoluene-d3	WXX100125-08CRI	185 > 155	17.14	19261.230	19261.230	19261.230	19261.230	bb			590.8955	118.2	18.2	944.5
2-Nitrotoluene	WXX100125-08CRI	137 > 46	20.73	249.133	19261.230	249.133	6.467	bb			38.8881	97.2	-2.8	41.4
4-Nitrotoluene	WXX100125-08CRI	137 > 46	22.04	111.602	19261.230	111.602	2.897	bb			35.0395	87.6	-12.4	19.7
3-Nitrotoluene	WXX100125-08CRI	137 > 46	23.68	166.053	19261.230	166.053	4.311	bb			46.1714	115.4	15.4	23.2
PETN	WXX100125-08CRI	361 > 62	24.15	4019.243	19261.230	4019.243	104.335	bb			28.6246	71.6	-28.4	1039.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/25/10
 Time of Injection 2308
 Standard Number WXX100125-08CRI
 Data File EXP0125025a

HMx	149.1
RDX	109.4
135-TNB	128.2
13-DNB	115.4
Tetryl	101.4
Nitrobenzene	124.3
4A-26-DNT	108.7
2A-46-DNT	102.4
246-TNT	103.5
34-DNT(surr)	100.4
26-DNT	100.8
24-DNT	103.9
2-NT	97.2
4-NT	87.6
3-NT	115.4
PETN	71.6

MTT
1/26/10

Total 1719.3

Average 107.5

Ann 01/26/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0125034a

Analysis Date: 26-JAN-10 03:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	677.094	113	
1,3-Dinitrobenzene-d4	500	507.421	101	
2,4,6-Trinitrotoluene	600	664.277	111	
2,4-Dinitrotoluene	600	626.592	104	
2,6-Dinitrotoluene	600	593.375	99	
2,6-Dinitrotoluene-d3	500	552.887	111	
2-Amino-4,6-dinitrotoluene	600	628.043	105	
3,4-Dinitrotoluene	300	310.216	103	
4-Amino-2,6-dinitrotoluene	600	653.794	109	
HMX	600	665.852	111	
Nitrobenzene	600	612.948	102	
PETN	600	598.099	100	
RDX	600	771.215	129	*
Tetryl	600	637.72	106	
m-Dinitrobenzene	600	643.843	107	
m-Nitrotoluene	600	557.007	93	
o-Nitrotoluene	600	568.991	95	
p-Nitrotoluene	600	602.81	100	

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\PRO012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP\PRO012510expA.qld, Time: Tue Jan 26 09:24:51 2010

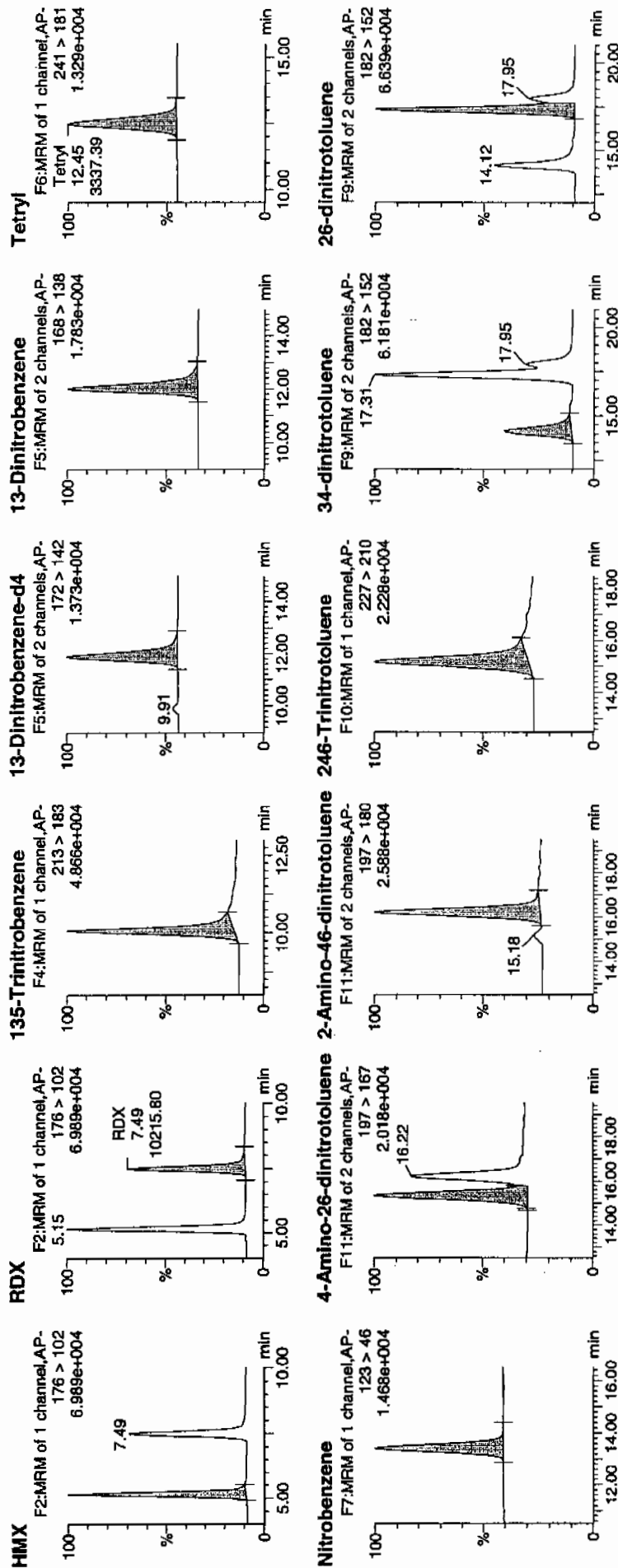
Date: 26-Jan-2010

Time: 03:34:18

ID: WXX100125-07CCV

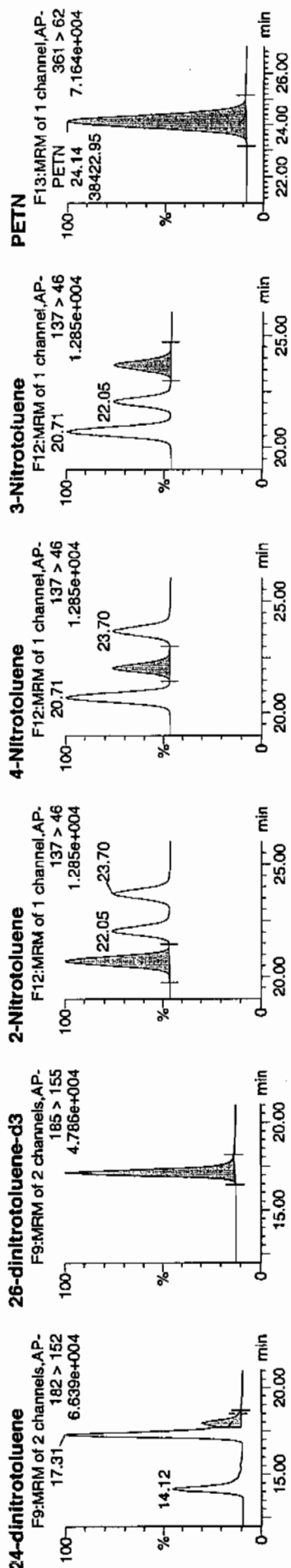
Vial: 1:1,B

1/26/10



1/26/10

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010



ID	Name	Trace	RT	Area	SI	Flags	Mod	Date	Mod	Time	Area	Reg	Dev	MSN
WXX100125-07CCV	HMX	176 > 102	5.15	12727.260	3012.459	12727.260	2112.437	bb			685.8520	111.0	11.0	1385.6
WXX100125-07CCV	RDX	176 > 102	7.49	10215.800	3012.459	10215.800	1695.592	bb			771.2149	128.5	28.5	918.6
WXX100125-07CCV	135-Trinitrobenzene	213 > 183	10.07	11660.856	3012.459	11660.856	1935.438	bb			677.0943	112.8	12.8	921.2
WXX100125-07CCV	13-Dinitrobenzene-d4	172 > 142	11.89	3012.459	3012.459	3012.459	3012.459	bb			507.4213	101.5	1.5	175.5
WXX100125-07CCV	13-Dinitrobenzene	168 > 138	12.00	4499.687	3012.459	4499.687	746.846	bb			643.8425	107.3	7.3	448.1
WXX100125-07CCV	Tetryl	241 > 181	12.45	3337.394	3012.459	3337.394	553.932	bb			637.7201	106.3	6.3	329.8
WXX100125-07CCV	Nitrobenzene	123 > 46	13.41	3155.987	3012.459	3155.987	523.822	bb			612.9484	102.2	2.2	319.0
WXX100125-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.35	6139.198	18022.293	6139.198	170.322	MM	26-Jan-10	09:19:47	653.7944	109.0	9.0	343.5
WXX100125-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.22	8472.895	18022.293	8472.895	235.067	bb			628.0434	104.7	4.7	308.1
WXX100125-07CCV	246-Trinitrotoluene	227 > 210	15.17	7615.592	18022.293	7615.592	211.283	bb			664.2769	110.7	10.7	340.1
WXX100125-07CCV	34-dinitrotoluene	182 > 152	14.16	10153.055	18022.293	10153.055	281.680	bb			310.2159	103.4	3.4	637.1
WXX100125-07CCV	26-dinitrotoluene	182 > 152	17.31	23559.799	18022.293	23559.799	653.629	MM	26-Jan-10	09:21:49	593.3752	98.9	-1.1	851.1
WXX100125-07CCV	24-dinitrotoluene	182 > 152	17.95	5738.072	18022.293	5738.072	159.194	MM	26-Jan-10	09:23:53	626.5922	104.4	4.4	187.7
WXX100125-07CCV	26-dinitrotoluene-d3	185 > 155	17.14	18022.293	18022.293	18022.293	18022.293	bb			552.8874	110.6	10.6	1407.4
WXX100125-07CCV	2-Nitrotoluene	137 > 46	20.71	3410.712	18022.293	3410.712	94.625	bb			568.9905	94.8	-5.2	584.2
WXX100125-07CCV	4-Nitrotoluene	137 > 46	22.05	1796.469	18022.293	1796.469	49.840	bb			602.8096	100.5	0.5	322.1
WXX100125-07CCV	3-Nitrotoluene	137 > 46	23.70	1874.392	18022.293	1874.392	52.002	bb			557.0068	92.8	-7.2	319.9
WXX100125-07CCV	PETN	361 > 62	24.14	38422.945	18022.293	38422.945	1065.984	bb			598.0986	99.7	-0.3	4403.3

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/26/10
 Time of Injection: 0334
 Standard Number: WXX100125-07CCV
 Data File: EXP0125034a

HMX	111.0
RDX	128.5
135-TNB	112.8
13-DNB	107.3
Tetryl	106.3
Nitrobenzene	102.2
4A-26-DNT	109.0
2A-46-DNT	104.7
246-TNT	110.7
34-DNT(surr)	103.4
26-DNT	98.9
24-DNT	104.4
2-NT	94.8
4-NT	100.5
3-NT	92.8
PETN	99.7

*not
1/26/10*

Total 1687.0

Average 105.4

same 01/26/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0125036a

Analysis Date: 26-JAN-10 04:33

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	52.11	130	*
1,3-Dinitrobenzene-d4	500	503.562	101	
2,4,6-Trinitrotoluene	40	39.74	99	
2,4-Dinitrotoluene	40	41.295	103	
2,6-Dinitrotoluene	40	39.945	100	
2,6-Dinitrotoluene-d3	500	539.662	108	
2-Amino-4,6-dinitrotoluene	40	39.655	99	
3,4-Dinitrotoluene	20	20.419	102	
4-Amino-2,6-dinitrotoluene	40	42.579	106	
HMX	40	49.197	123	
Nitrobenzene	40	40.413	101	
PETN	40	28.993	72	
RDX	40	44.285	111	
Tetryl	40	48.534	121	
m-Dinitrobenzene	40	35.432	89	
m-Nitrotoluene	40	39.652	99	
o-Nitrotoluene	40	50.193	125	
p-Nitrotoluene	40	42.49	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
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\1012510expA.qld, Time: Tue Jan 26 09:24:51 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0125036a

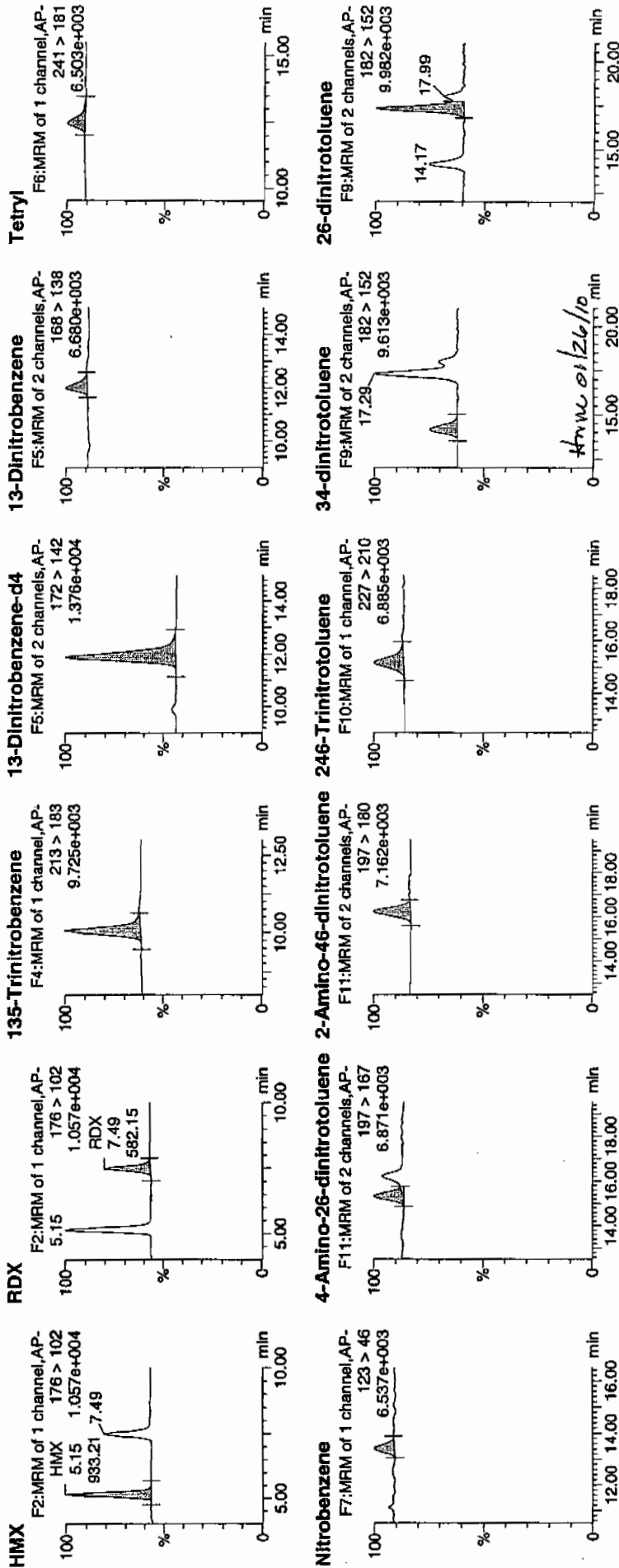
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ID: WXX100125-08CRI

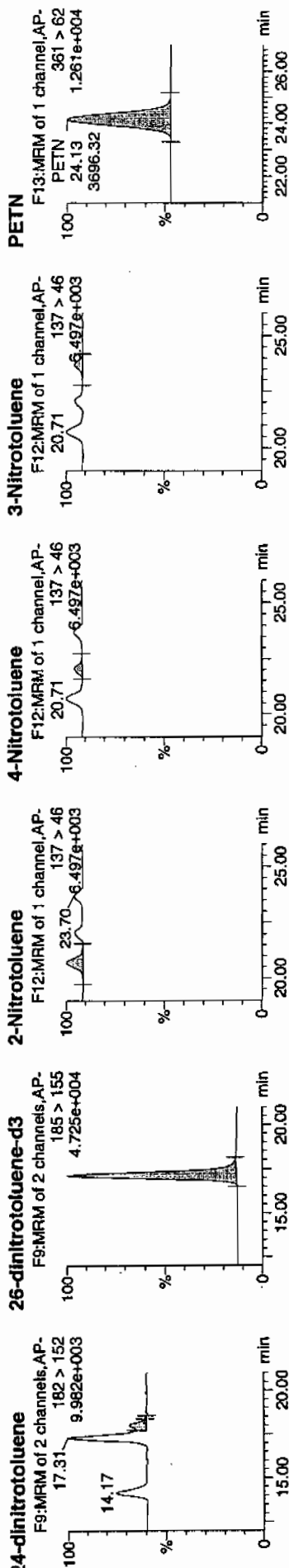
Vial: 1:1,C

WXX
10/16/10



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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA.qld, Time: Tue Jan 26 09:24:51 2010



ID	Name	Trace	RT	Area	Area	Response	Flags	Mod Date	Mod Time	Integrator	%Dev	MS/MS
WXX100125-08CRI	HMX	176 > 102	5.15	933.214	2989.546	933.214	156.080	bb		49.1971	123.0	196.3
WXX100125-08CRI	RDX	176 > 102	7.49	582.152	2989.546	582.152	97.365	bb		44.2849	110.7	106.4
WXX100125-08CRI	135-Trinitrobenzene	213 > 183	10.07	1045.697	2989.546	1045.697	174.892	bb		52.1099	130.3	143.8
WXX100125-08CRI	13-Dinitrobenzene-d4	172 > 142	11.89	2989.546	2989.546	2989.546	2989.546	bb		503.5618	100.7	363.4
WXX100125-08CRI	13-Dinitrobenzene	168 > 138	12.00	245.746	2989.546	245.746	41.101	bb		35.4323	88.6	-11.4
WXX100125-08CRI	Tetryl	241 > 181	12.45	252.060	2989.546	252.060	42.157	bb		48.5336	121.3	21.3
WXX100125-08CRI	Nitrobenzene	123 > 46	13.41	206.496	2989.546	206.496	34.536	bb		40.4126	101.0	1.0
WXX100125-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.35	390.258	17591.199	390.258	11.092	MM	26-Jan-10 09:19:53	42.5791	106.4	6.4
WXX100125-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.22	522.190	17591.199	522.190	14.842	bb		39.6553	99.1	-0.9
WXX100125-08CRI	246-Trinitrotoluene	227 > 210	15.17	444.695	17591.199	444.695	12.640	bb		39.7395	99.3	-0.7
WXX100125-08CRI	34-dinitrotoluene	182 > 152	14.16	652.297	17591.199	652.297	18.540	bb		20.4187	102.1	2.1
WXX100125-08CRI	26-dinitrotoluene	182 > 152	17.31	1548.066	17591.199	1548.066	44.001	MM	26-Jan-10 09:21:59	39.9449	99.9	-0.1
WXX100125-08CRI	24-dinitrotoluene	182 > 152	17.99	369.118	17591.199	369.118	10.492	MM	26-Jan-10 09:24:01	41.2951	103.2	3.2
WXX100125-08CRI	26-dinitrotoluene-d3	185 > 155	17.14	17591.199	17591.199	17591.199	17591.199	bb		539.6623	107.9	7.9
WXX100125-08CRI	2-Nitrotoluene	137 > 46	20.72	293.678	17591.199	293.678	8.347	bb		50.1933	125.5	25.5
WXX100125-08CRI	4-Nitrotoluene	137 > 46	22.09	123.598	17591.199	123.598	3.513	bb		42.4900	106.2	6.2
WXX100125-08CRI	3-Nitrotoluene	137 > 46	23.70	130.241	17591.199	130.241	3.702	bb		39.6518	99.1	-0.9
WXX100125-08CRI	PETN	361 > 62	24.13	3696.324	17591.199	3696.324	105.062	bb		28.9932	72.5	-27.5

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/26/10
 Time of Injection 0433
 Standard Number WXX100125-08CRI
 Data File EXP0125036a

HMX	123.0
RDX	110.7
135-TNB	130.3
13-DNB	88.6
Tetryl	121.3
Nitrobenzene	101.0
4A-26-DNT	106.4
2A-46-DNT	99.1
246-TNT	99.3
34-DNT(surr)	102.1
26-DNT	99.9
24-DNT	103.2
2-NT	125.5
4-NT	106.2
3-NT	99.1
PETN	72.5

WXX
1/26/10

Total 1688.2

Average 105.5

WXX-01/26/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0125047a

Analysis Date: 26-JAN-10 09:58

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	646.04	108	
1,3-Dinitrobenzene-d4	500	528.635	106	
2,4,6-Trinitrotoluene	600	844.315	141	*
2,4-Dinitrotoluene	600	601.657	100	
2,6-Dinitrotoluene	600	607.414	101	
2,6-Dinitrotoluene-d3	500	552.683	111	
2-Amino-4,6-dinitrotoluene	600	622.543	104	
3,4-Dinitrotoluene	300	327.234	109	
4-Amino-2,6-dinitrotoluene	600	623.75	104	
HMX	600	662.143	110	
Nitrobenzene	600	629.393	105	
PETN	600	593.682	99	
RDX	600	700.33	117	
Tetryl	600	658.895	110	
m-Dinitrobenzene	600	616.464	103	
m-Nitrotoluene	600	578.165	96	
o-Nitrotoluene	600	560.785	93	
p-Nitrotoluene	600	573.922	96	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0125047a

Date: 26-Jan-2010

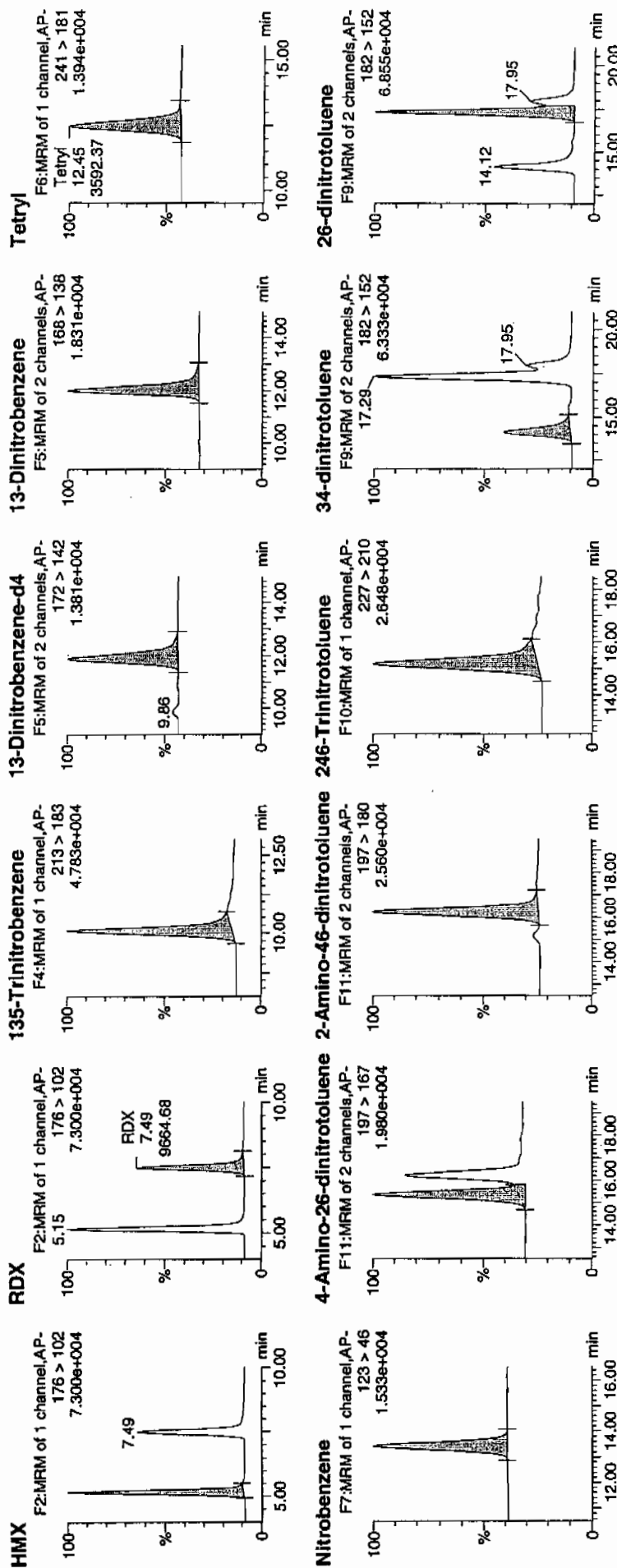
Time: 09:58:05

ID: WXX100125-07CCV

Vial: 1:1,B

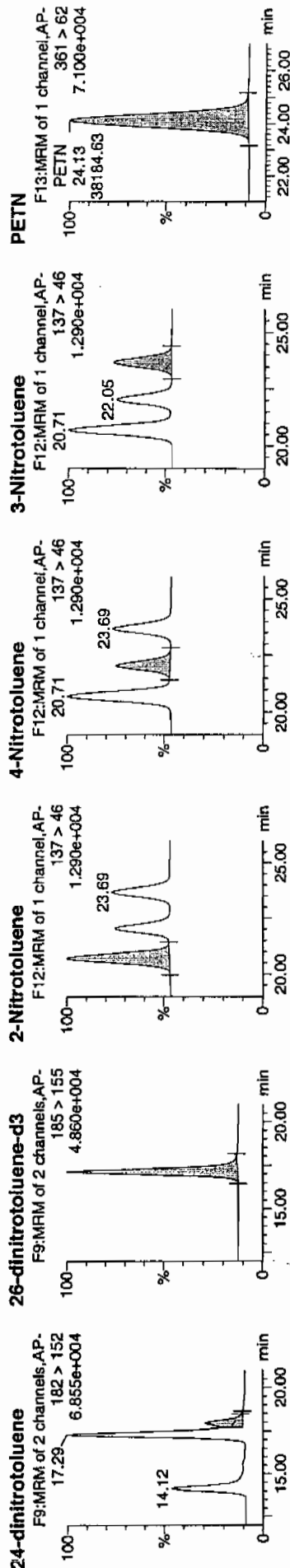
1/27/10

Page 336 of 556



4.783e+004

Dataset: C:\MASSLYN\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



ID	Name	Trace	Int	Area	SArea	Abs Resp	Response	Flags	ModDate	ModTime	%Rec	%Dev	SN
WXX100125-07CCV	HMX	176 > 102	5.15	13185.493	3138.402	13185.493	2100.670	bb			110.4	10.4	1467.2
WXX100125-07CCV	RDX	176 > 102	7.49	9664.676	3138.402	9664.676	1539.745	bb			116.7	16.7	893.0
WXX100125-07CCV	135-Trinitrobenzene	213 > 183	10.07	11599.277	3138.402	11599.277	1847.959	bb			107.7	7.7	485.6
WXX100125-07CCV	13-Dinitrobenzene-d4	172 > 142	11.89	3138.402		3138.402	3138.402	bb			105.7	5.7	304.3
WXX100125-07CCV	13-Dinitrobenzene	168 > 138	12.00	4488.464	3138.402	4488.464	715.087	bb			102.7	2.7	291.8
WXX100125-07CCV	Tenyl	241 > 181	12.45	3592.369	3138.402	3592.369	572.325	bb			109.8	9.8	805.2
WXX100125-07CCV	Nitrobenzene	123 > 46	13.41	3376.141	3138.402	3376.141	537.876	bb			104.9	4.9	363.2
WXX100125-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.35	5854.912	18015.623	5854.912	162.495	MM	27-Jan-10	09:12:09	104.0	4.0	405.4
WXX100125-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.22	8395.583	18015.623	8395.583	233.008	bb			103.8	3.8	932.8
WXX100125-07CCV	246-Trinitrotoluene	227 > 210	15.17	9676.053	18015.623	9676.053	268.546	bb			140.7	40.7	757.4
WXX100125-07CCV	34-dinitrotoluene	182 > 152	14.12	10706.081	18015.623	10706.081	297.133	bb			109.1	9.1	591.8
WXX100125-07CCV	26-dinitrotoluene	182 > 152	17.29	24108.299	18015.623	24108.299	669.094	MM	27-Jan-10	09:15:14	101.2	1.2	903.4
WXX100125-07CCV	24-dinitrotoluene	182 > 152	17.95	5507.685	18015.623	5507.685	152.859	MM	27-Jan-10	09:19:30	100.3	0.3	188.1
WXX100125-07CCV	26-dinitrotoluene-d3	185 > 155	17.14	18015.623		18015.623	18015.623	bb			110.5	10.5	865.6
WXX100125-07CCV	2-Nitrotoluene	137 > 46	20.71	3360.283	18015.623	3360.283	93.260	bb			93.5	-6.5	783.1
WXX100125-07CCV	4-Nitratoluene	137 > 46	22.05	1709.745	18015.623	1709.745	47.452	bb			95.7	-4.3	417.6
WXX100125-07CCV	3-Nitratoluene	137 > 46	23.69	1944.873	18015.623	1944.873	53.977	bb			96.4	-3.6	446.6
WXX100125-07CCV	PETN	361 > 62	24.13	38184.633	18015.623	38184.633	1059.764	bb			98.9	-1.1	2758.9

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/26/10
 Time of Injection: 0958
 Standard Number: WXX100125-07CCV
 Data File: EXP0125047a

HMX	110.4
RDX	116.7
135-TNB	107.7
13-DNB	102.7
Tetryl	109.8
Nitrobenzene	104.9
4A-26-DNT	104.0
2A-46-DNT	103.8
246-TNT	140.7
34-DNT(surr)	109.1
26-DNT	101.2
24-DNT	100.3
2-NT	93.5
4-NT	95.7
3-NT	96.4
PETN	98.9

Handwritten:
 1124/10

Total 1695.8

Average 106.0

Handwritten: HAW 01/22/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0125049a

Analysis Date: 26-JAN-10 10:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	44.638	112	
1,3-Dinitrobenzene-d4	500	604.504	121	
2,4,6-Trinitrotoluene	40	37.616	94	
2,4-Dinitrotoluene	40	40.509	101	
2,6-Dinitrotoluene	40	39.422	99	
2,6-Dinitrotoluene-d3	500	574.489	115	
2-Amino-4,6-dinitrotoluene	40	46.027	115	
3,4-Dinitrotoluene	20	22.575	113	
4-Amino-2,6-dinitrotoluene	40	43.635	109	
HMX	40	41.294	103	
Nitrobenzene	40	37.127	93	
PETN	40	31.781	79	
RDX	40	41.493	104	
Tetryl	40	40.973	102	
m-Dinitrobenzene	40	33.859	85	
m-Nitrotoluene	40	49.924	125	
o-Nitrotoluene	40	42.014	105	
p-Nitrotoluene	40	42.378	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
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0125049a

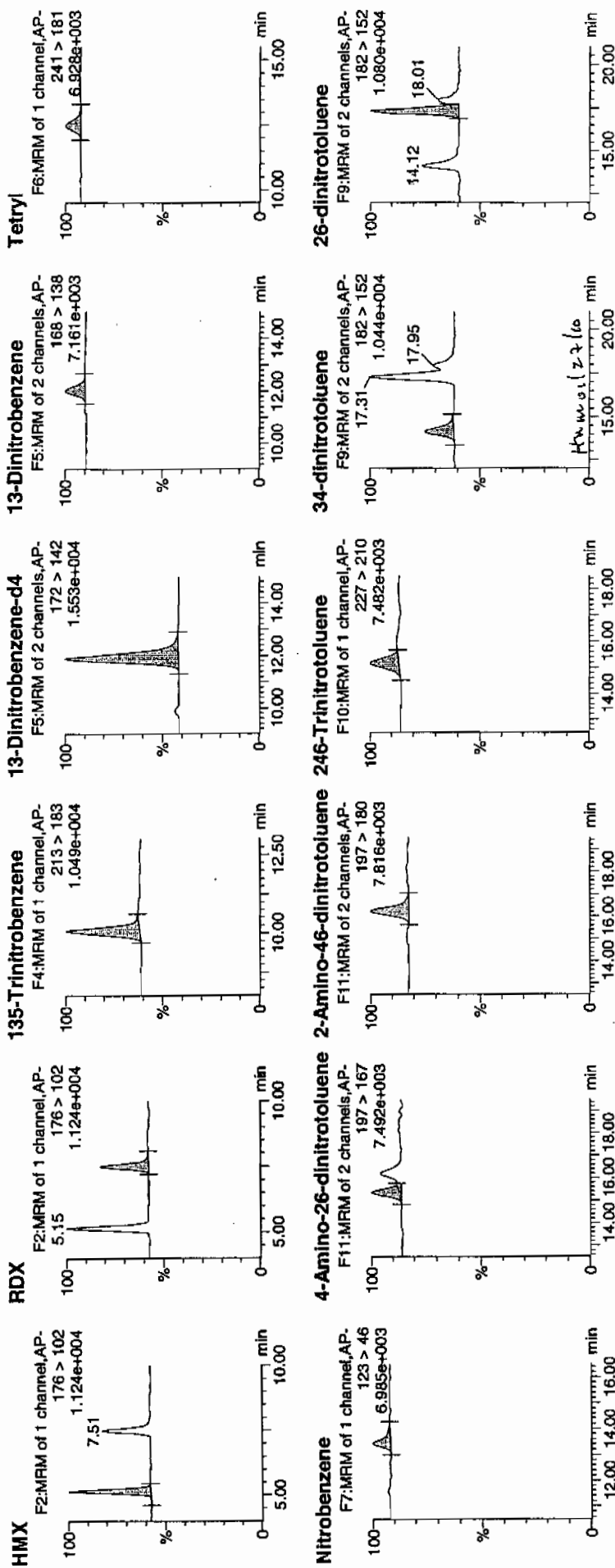
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Time: 10:57:07

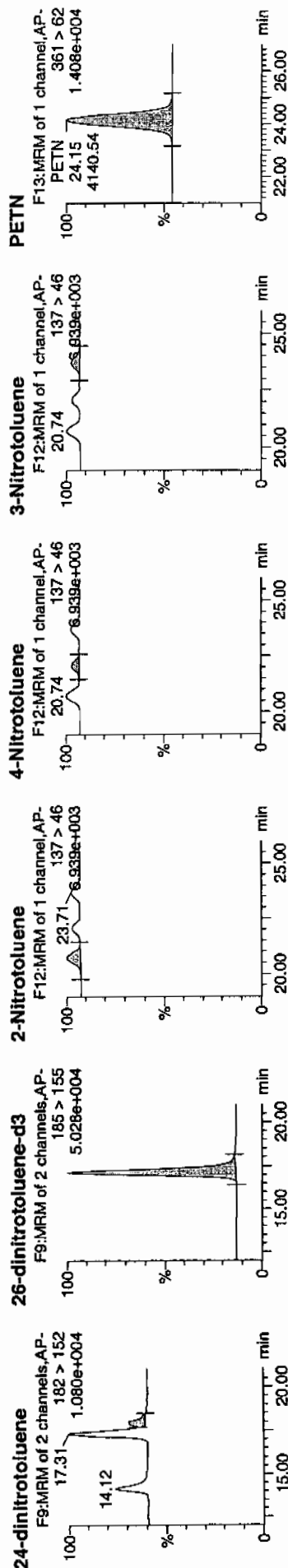
ID: WXX100125-08CRI

Vial: 1:1,C

1/27/10
M.A.P.



Dataset: C:\MASSLYNX\New_Exp\PRO1012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



DI	Name	RT	Area	IS	Abundance	Response	Flags	Mod	Date	Mod	Time	Mod	Rec	Mod	Dev	Mod	SIN
WXX100125-08CRI	HMX	176 > 102	5.15	940.323	3588.820	940.323	131.007	bb			41.2942	103.2	3.2	113.1			
WXX100125-08CRI	RDX	176 > 102	7.51	654.783	3588.820	654.783	91.225	bb			41.4925	103.7	3.7	66.1			
WXX100125-08CRI	135-Trinitrobenzene	213 > 183	10.07	1104.246	3588.820	1104.246	153.845	bb			44.6384	111.6	11.6	145.1			
WXX100125-08CRI	13-Dinitrobenzene-d4	172 > 142	11.89	3588.820		3588.820	3588.820	bb			604.5041	120.9	20.9	191.6			
WXX100125-08CRI	13-Dinitrobenzene	168 > 138	12.03	281.911	3588.820	281.911	39.276	bb			33.8594	84.6	-15.4	32.1			
WXX100125-08CRI	Tetryl	241 > 181	12.45	255.450	3588.820	255.450	35.590	bb			40.9730	102.4	2.4	13.0			
WXX100125-08CRI	Nitrobenzene	123 > 46	13.45	227.737	3588.820	227.737	31.729	bb			37.1272	92.8	-7.2	18.7			
WXX100125-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.35	425.744	18726.447	425.744	11.367	MM	27-Jan-10	09:12:17	43.6348	109.1	9.1	23.7			
WXX100125-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.22	645.214	18726.447	645.214	17.227	bb			46.0274	115.1	15.1	51.8			
WXX100125-08CRI	246-Trinitrotoluene	227 > 210	15.17	448.097	18726.447	448.097	11.964	bb			37.6160	94.0	-6.0	23.5			
WXX100125-08CRI	34-dinitrotoluene	182 > 152	14.17	767.709	18726.447	767.709	20.498	bb			22.5745	112.9	12.9	30.5			
WXX100125-08CRI	26-dinitrotoluene	182 > 152	17.31	1626.381	18726.447	1626.381	43.425	MM	27-Jan-10	09:15:27	39.4216	98.6	-1.4	95.8			
WXX100125-08CRI	24-dinitrotoluene	182 > 152	18.01	385.462	18726.447	385.462	10.292	MM	27-Jan-10	09:19:17	40.5093	101.3	1.3	19.4			
WXX100125-08CRI	26-dinitrotoluene-d3	185 > 155	17.14	18726.447		18726.447	18726.447	bb			574.4894	114.9	14.9	1389.2			
WXX100125-08CRI	2-Nitrotoluene	137 > 46	20.74	261.684	18726.447	261.684	6.987	bb			42.0138	105.0	5.0	60.2			
WXX100125-08CRI	4-Nitrotoluene	137 > 46	22.06	131.227	18726.447	131.227	3.504	bb			42.3778	105.9	5.9	31.3			
WXX100125-08CRI	3-Nitrotoluene	137 > 46	23.71	174.564	18726.447	174.564	4.661	bb			49.9240	124.8	24.8	37.1			
WXX100125-08CRI	PETN	361 > 62	24.15	4140.537	18726.447	4140.537	110.553	bb			31.7814	79.5	-20.5	450.9			

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/26/10
 Time of Injection 1057
 Standard Number WXX100125-08CRI
 Data File EXP0125049a

HMX	103.2
RDX	103.7
135-TNB	111.6
13-DNB	84.6
Tetryl	102.4
Nitrobenzene	92.8
4A-26-DNT	109.1
2A-46-DNT	115.1
246-TNT	94.0
34-DNT(surr)	112.9
26-DNT	98.6
24-DNT	101.3
2-NT	105.0
4-NT	105.9
3-NT	124.8
PETN	79.5

MTT
1/27/10

Total 1644.5

Average 102.8

Handwritten: 01/27/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0125060a

Analysis Date: 26-JAN-10 16:21

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	682.994	114	
1,3-Dinitrobenzene-d4	500	545.605	109	
2,4,6-Trinitrotoluene	600	697.867	116	
2,4-Dinitrotoluene	600	608.207	101	
2,6-Dinitrotoluene	600	595.1	99	
2,6-Dinitrotoluene-d3	500	562.286	112	
2-Amino-4,6-dinitrotoluene	600	657.831	110	
3,4-Dinitrotoluene	300	337.629	113	
4-Amino-2,6-dinitrotoluene	600	664.072	111	
HMX	600	707.84	118	
Nitrobenzene	600	600.429	100	
PETN	600	601.346	100	
RDX	600	753.08	126	*
Tetryl	600	642.934	107	
m-Dinitrobenzene	600	616.028	103	
m-Nitrotoluene	600	554.466	92	
o-Nitrotoluene	600	538.809	90	
p-Nitrotoluene	600	558.692	93	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0125060a

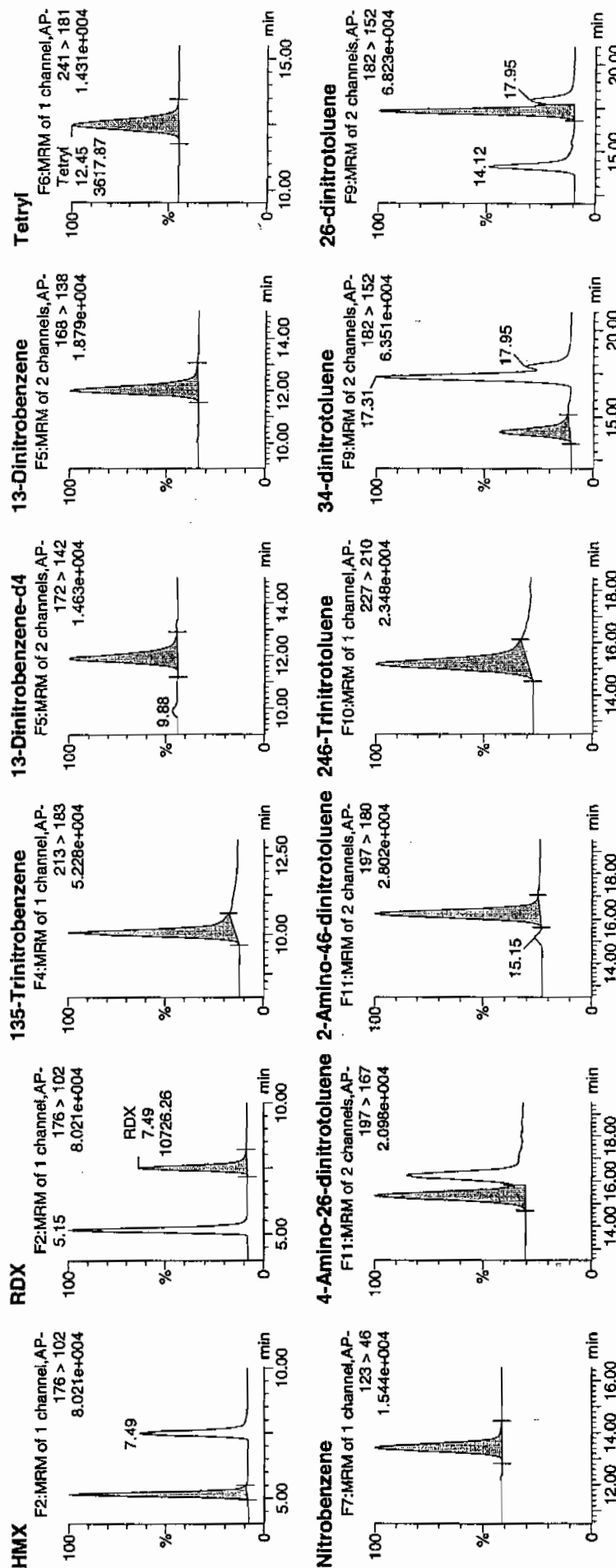
Date: 26-Jan-2010

Time: 16:21:27

ID: WXX100125-07CCV

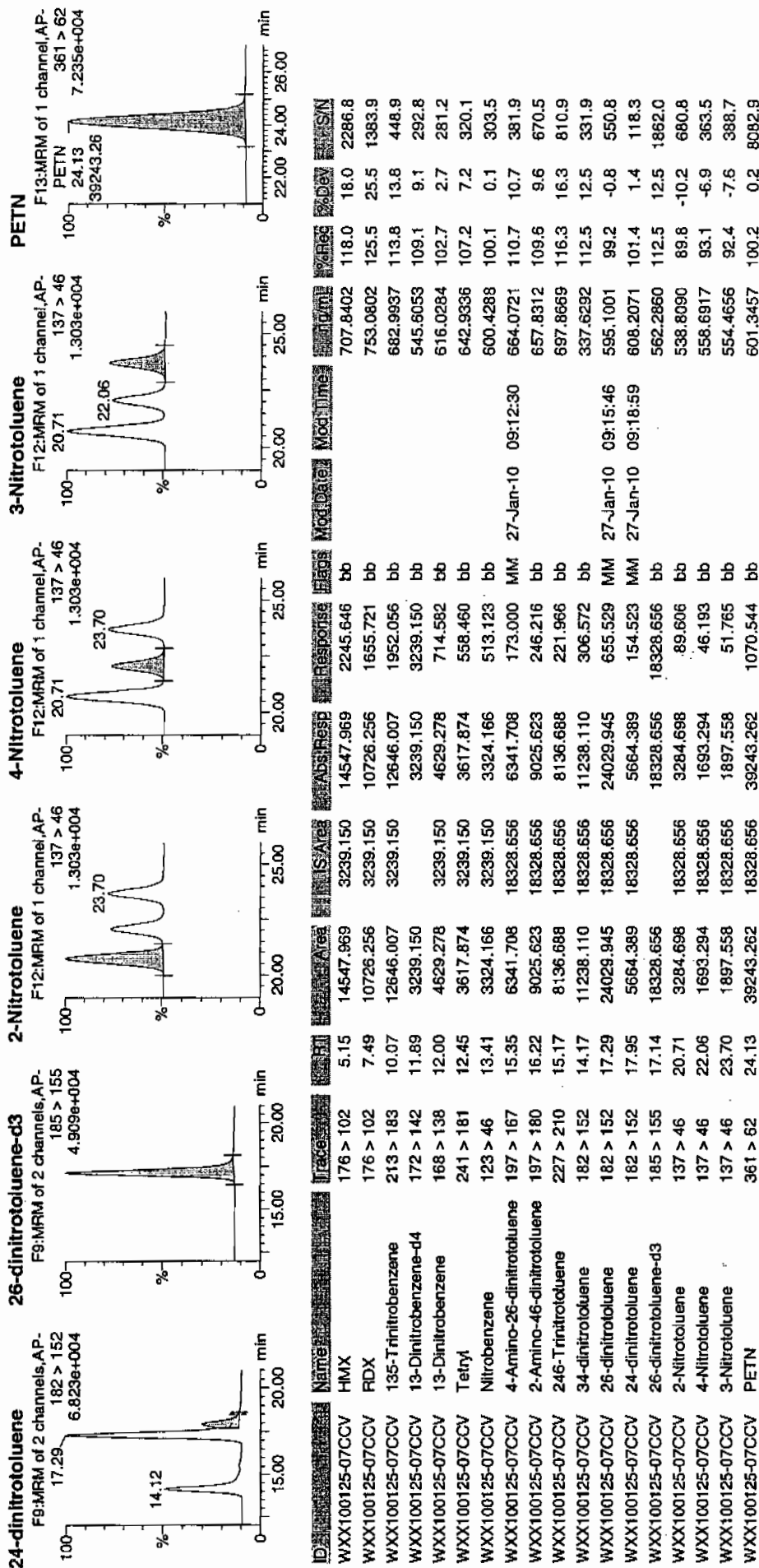
Vial: 1:1,B

1/27/10



Handwritten note: 0.125/10

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/26/10
 Time of Injection: 1621
 Standard Number: WXX100125-07CCV
 Data File: EXP0125060a

HMX	118.0
RDX	125.5
135-TNB	113.8
13-DNB	102.7
Tetryl	107.2
Nitrobenzene	100.1
4A-26-DNT	110.7
2A-46-DNT	109.6
246-TNT	116.3
34-DNT(surr)	112.5
26-DNT	99.2
24-DNT	101.4
2-NT	89.8
4-NT	93.1
3-NT	92.4
PETN	100.2

*WXX
1/27/10*

Total 1692.5

Average 105.8

WXX-01/27/10

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): 10-1131

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXP0125062a

Analysis Date: 26-JAN-10 17:20

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	51.696	129	
1,3-Dinitrobenzene-d4	500	614.783	123	
2,4,6-Trinitrotoluene	40	49.225	123	
2,4-Dinitrotoluene	40	34.729	87	
2,6-Dinitrotoluene	40	39.808	100	
2,6-Dinitrotoluene-d3	500	614.638	123	
2-Amino-4,6-dinitrotoluene	40	45.735	114	
3,4-Dinitrotoluene	20	24.671	123	
4-Amino-2,6-dinitrotoluene	40	51.11	128	
HMX	40	52.738	132	*
Nitrobenzene	40	40.221	101	
PETN	40	28.447	71	
RDX	40	50.85	127	
Tetryl	40	57.694	144	*
m-Dinitrobenzene	40	44.101	110	
m-Nitrotoluene	40	43.112	108	
o-Nitrotoluene	40	44.615	112	
p-Nitrotoluene	40	46.759	117	

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\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0125062a

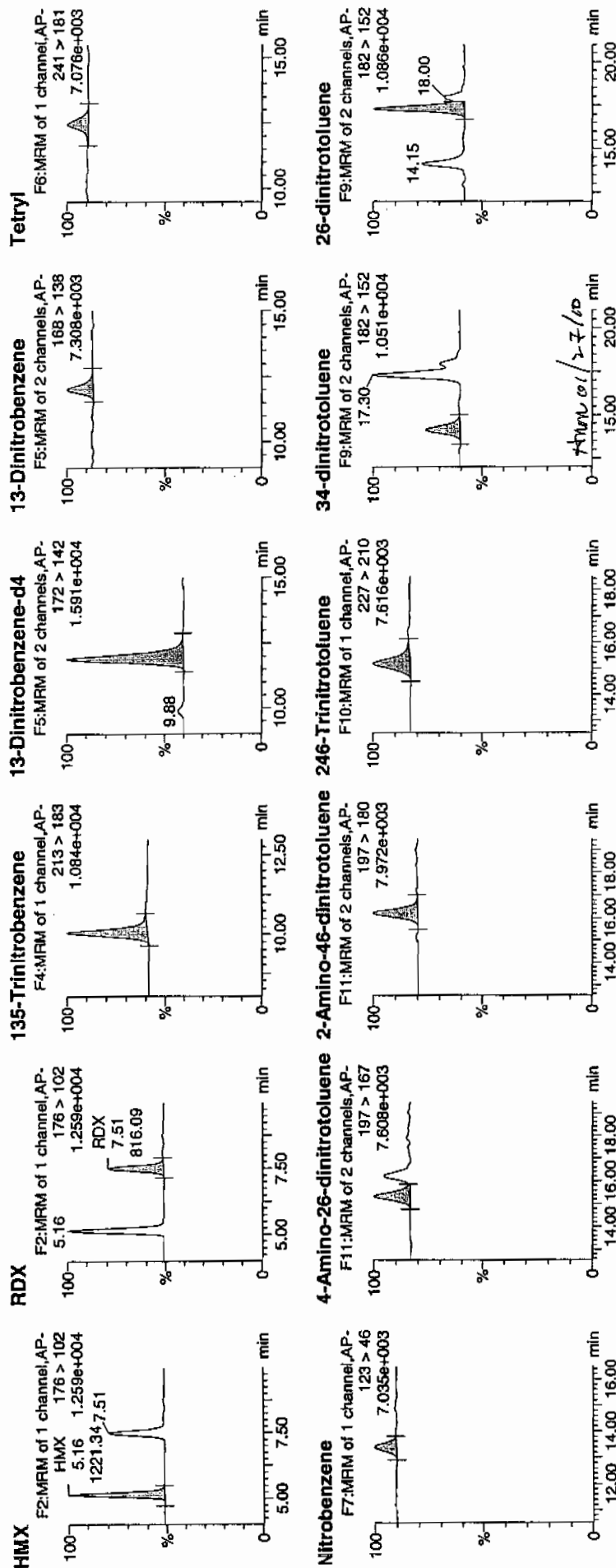
Date: 26-Jan-2010

Time: 17:20:28

ID: WXX100125-08CRI

Vial: 1:1,C

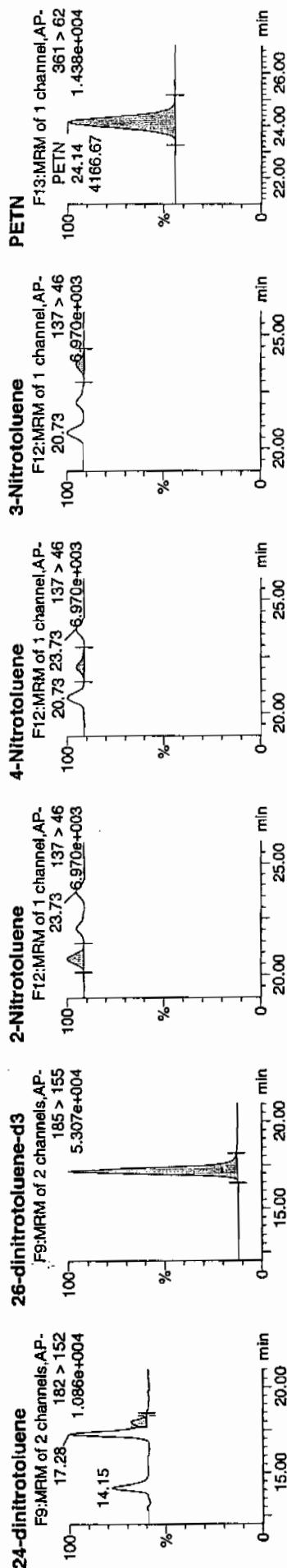
10/11/10



Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



ID	Name	Trace	RT	Area	SArea	Abs Resp	Response	Flags	Mod Date	Mod Time	Ind. Val	% Rec	% Dev	ISN
WVXX100125-08CRI	HMx	176 > 102	5.16	1221.338	3649.844	1221.338	167.314	bb			52.7382	131.8	31.8	153.9
WVXX100125-08CRI	RDX	176 > 102	7.51	816.089	3649.844	816.089	111.798	bb			50.8496	127.1	27.1	88.6
WVXX100125-08CRI	135-Trinitrobenzene	213 > 183	10.07	1268.148	3649.844	1268.148	173.726	bb			51.6960	129.2	29.2	136.5
WVXX100125-08CRI	13-Dinitrobenzene-d4	172 > 142	11.89	3649.844		3649.844		bb			614.7830	123.0	23.0	630.8
WVXX100125-08CRI	13-Dinitrobenzene	168 > 138	12.00	373.422	3649.844	373.422	51.156	bb			44.1006	110.3	10.3	57.1
WVXX100125-08CRI	Tetryl	241 > 181	12.45	365.812	3649.844	365.812	50.113	bb			57.6936	144.2	44.2	28.2
WVXX100125-08CRI	Nitrobenzene	123 > 46	13.39	250.910	3649.844	250.910	34.373	bb			40.2211	100.6	0.6	22.6
WVXX100125-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.34	533.527	20035.150	533.527	13.315	MM	27-Jan-10	09:12:38	51.1097	127.8	27.8	25.1
WVXX100125-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.21	685.925	20035.150	685.925	17.118	bb			45.7353	114.3	14.3	76.5
WVXX100125-08CRI	246-Trinitrotoluene	227 > 210	15.20	627.366	20035.150	627.366	15.657	bb			49.2248	123.1	23.1	128.9
WVXX100125-08CRI	34-dinitrotoluene	182 > 152	14.15	897.648	20035.150	897.648	22.402	bb			24.6712	123.4	23.4	52.6
WVXX100125-08CRI	26-dinitrotoluene	182 > 152	17.28	1757.109	20035.150	1757.109	43.851	MM	27-Jan-10	09:15:56	39.8083	99.5	-0.5	75.0
WVXX100125-08CRI	24-dinitrotoluene	182 > 152	18.00	353.553	20035.150	353.553	8.823	MM	27-Jan-10	09:18:51	34.7289	86.8	-13.2	15.1
WVXX100125-08CRI	26-dinitrotoluene-d3	185 > 155	17.15	20035.150		20035.150	20035.150	bb			614.6378	122.9	22.9	1178.3
WVXX100125-08CRI	2-Nitrotoluene	137 > 46	20.73	297.304	20035.150	297.304	7.420	bb			44.6147	111.5	11.5	85.1
WVXX100125-08CRI	4-Nitrotoluene	137 > 46	22.07	154.912	20035.150	154.912	3.866	bb			46.7588	116.9	16.9	41.2
WVXX100125-08CRI	3-Nitrotoluene	137 > 46	23.73	161.279	20035.150	161.279	4.025	bb			43.1117	107.8	7.8	43.0
WVXX100125-08CRI	PETN	361 > 62	24.14	4166.667	20035.150	4166.667	103.984	bb			28.4465	71.1	-28.9	1101.8

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/26/10
 Time of Injection 1720
 Standard Number WXX100125-08CRI
 Data File EXP0125062a

HMX	131.8
RDX	127.1
135-TNB	129.2
13-DNB	110.3
Tetryl	144.2
Nitrobenzene	100.6
4A-26-DNT	127.8
2A-46-DNT	114.3
246-TNT	123.1
34-DNT(surr)	123.4
26-DNT	99.5
24-DNT	86.8
2-NT	111.5
4-NT	116.9
3-NT	107.8
PETN	71.1

*1007
1/27/10*

Total 1825.4

Average 114.1

done 01/27/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0125073a

Analysis Date: 26-JAN-10 22:45

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	671.694	112	
1,3-Dinitrobenzene-d4	500	508.961	102	
2,4,6-Trinitrotoluene	600	706.753	118	
2,4-Dinitrotoluene	600	643.877	107	
2,6-Dinitrotoluene	600	596.244	99	
2,6-Dinitrotoluene-d3	500	475.276	95	
2-Amino-4,6-dinitrotoluene	600	688.37	115	
3,4-Dinitrotoluene	300	342.191	114	
4-Amino-2,6-dinitrotoluene	600	691.558	115	
HMX	600	652.718	109	
Nitrobenzene	600	550.739	92	
PETN	600	648.299	108	
RDX	600	649.867	108	
Tetryl	600	631.484	105	
m-Dinitrobenzene	600	592.419	99	
m-Nitrotoluene	600	650.365	108	
o-Nitrotoluene	600	610.997	102	
p-Nitrotoluene	600	618.438	103	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125073a

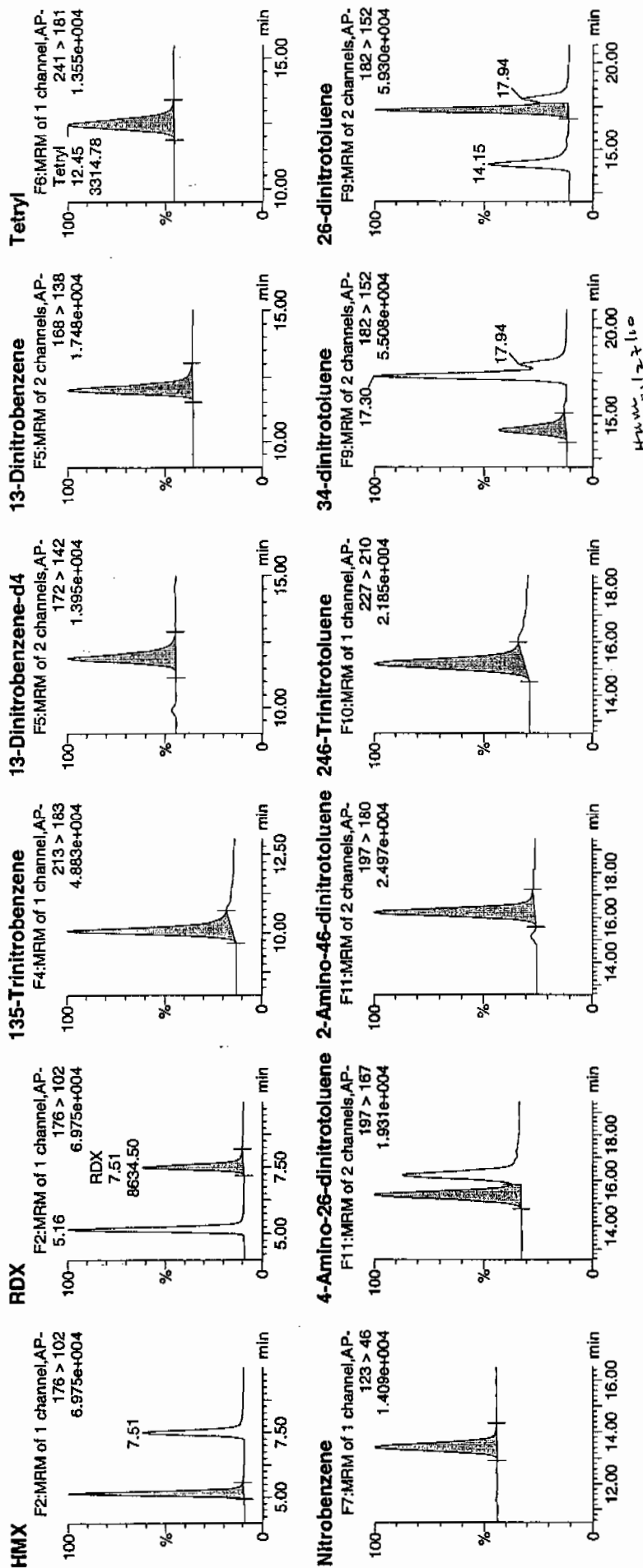
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Time: 22:45:12

ID: WXX100125-07CCV

Vial: 1:1,B

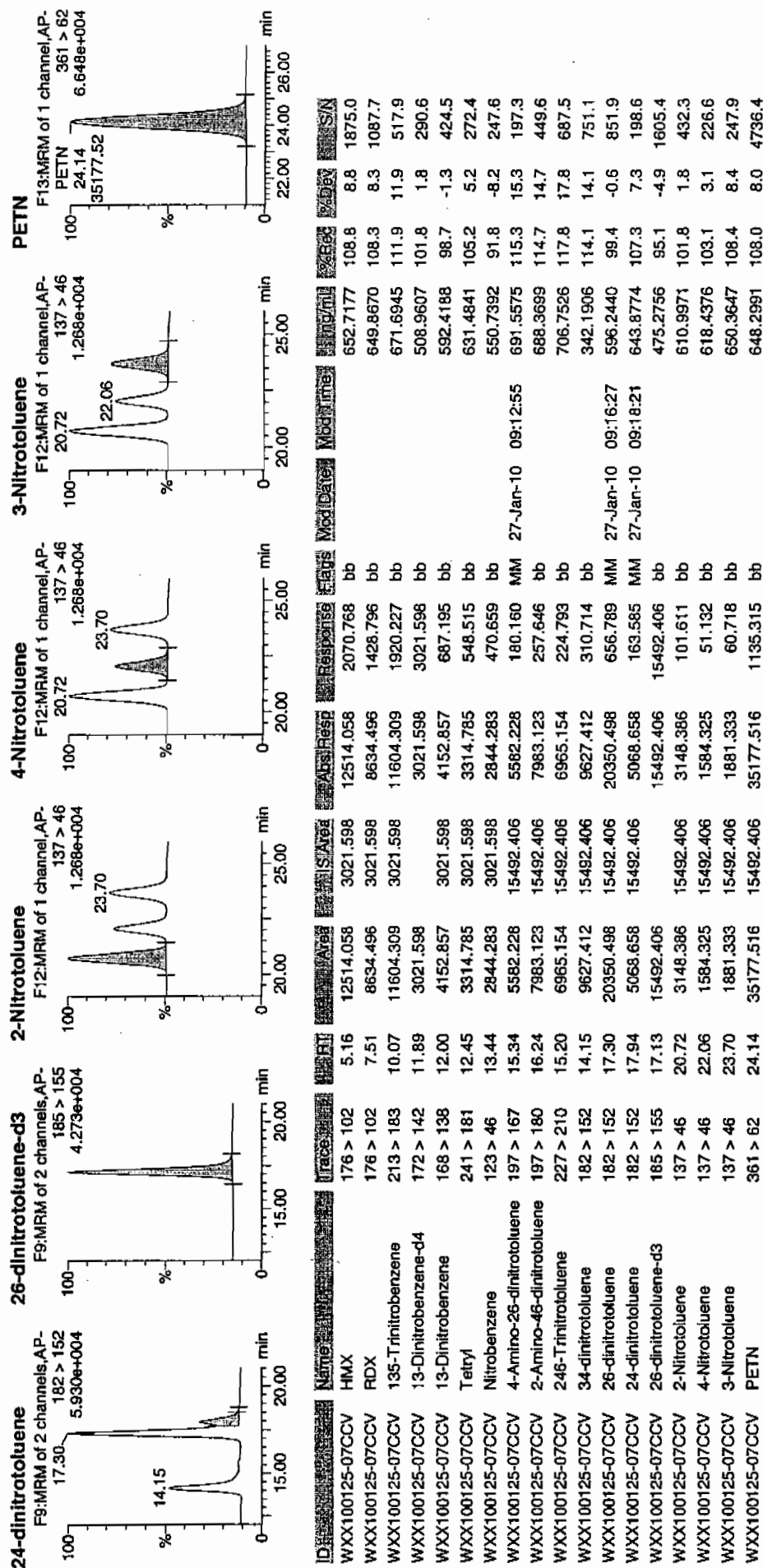
1/27/10



Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/26/10
 Time of Injection: 2245
 Standard Number: WXX100125-07CCV
 Data File: EXP0125073a

HMX	108.8
RDX	108.3
135-TNB	111.9
13-DNB	98.7
Tetryl	105.2
Nitrobenzene	91.8
4A-26-DNT	115.3
2A-46-DNT	114.7
246-TNT	117.8
34-DNT(surr)	114.1
26-DNT	99.4
24-DNT	107.3
2-NT	101.8
4-NT	103.1
3-NT	108.4
PETN	108.0

Total 1714.6

Average 107.2

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

1/27/10

1/27/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0125075a

Analysis Date: 26-JAN-10 23:44

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	56.169	140	*
1,3-Dinitrobenzene-d4	500	483.992	97	
2,4,6-Trinitrotoluene	40	40.766	102	
2,4-Dinitrotoluene	40	35.006	88	
2,6-Dinitrotoluene	40	40.845	102	
2,6-Dinitrotoluene-d3	500	507.7	102	
2-Amino-4,6-dinitrotoluene	40	44.774	112	
3,4-Dinitrotoluene	20	23.523	118	
4-Amino-2,6-dinitrotoluene	40	43.317	108	
HMX	40	49.659	124	
Nitrobenzene	40	38.296	96	
PETN	40	36.274	91	
RDX	40	46.372	116	
Tetryl	40	44.916	112	
m-Dinitrobenzene	40	38.172	95	
m-Nitrotoluene	40	37.685	94	
o-Nitrotoluene	40	39.419	99	
p-Nitrotoluene	40	40.939	102	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Wed Jan 27 09:26:20 2010, Page 77 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125075a

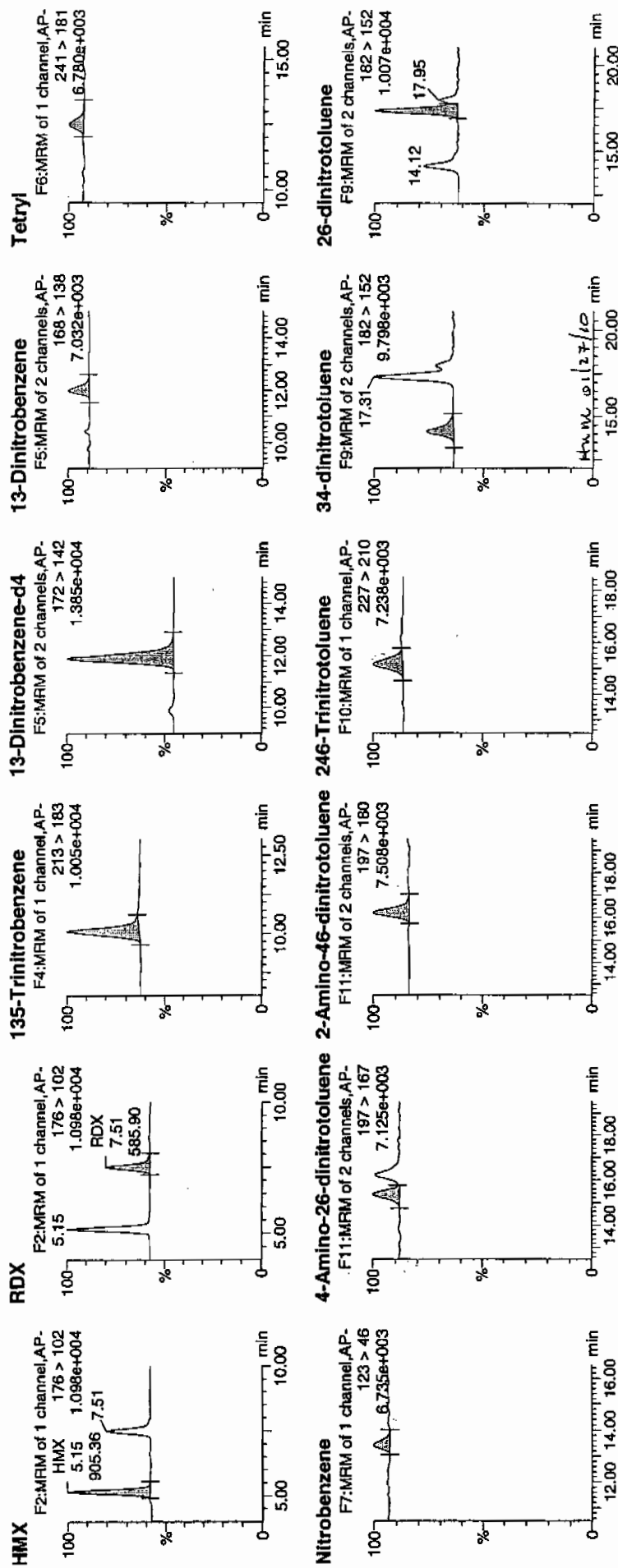
Date: 26-Jan-2010

Time: 23:44:10

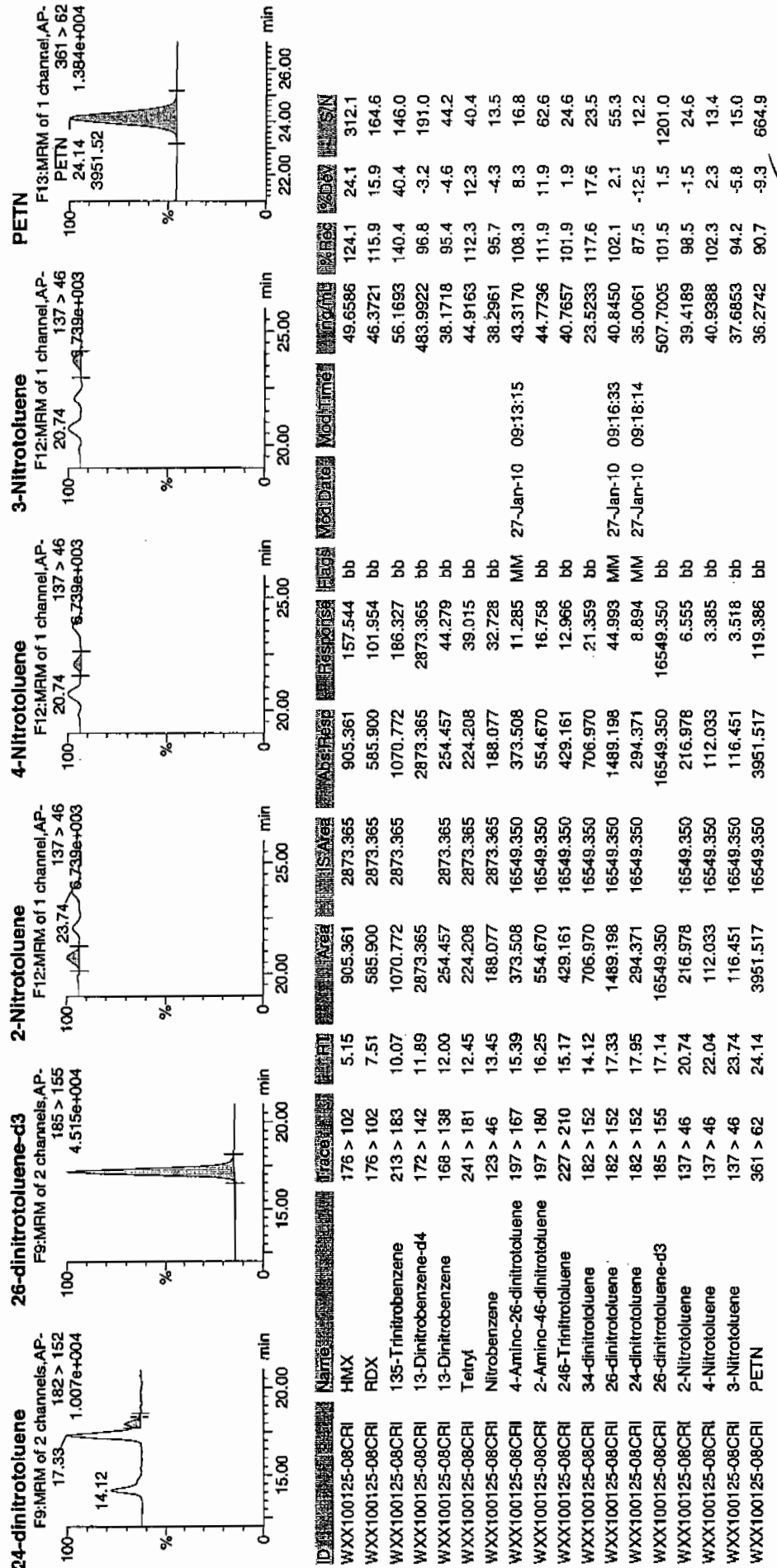
ID: WXX100125-08CRI

Vial: 1:1,C

100%
1/24/10



Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/26/10
 Time of Injection 2344
 Standard Number WXX100125-08CRI
 Data File EXP0125075a

HMX	124.1
RDX	115.9
135-TNB	140.4
13-DNB	95.4
Tetryl	112.3
Nitrobenzene	95.7
4A-26-DNT	108.3
2A-46-DNT	111.9
246-TNT	101.9
34-DNT(surr)	117.6
26-DNT	102.1
24-DNT	87.5
2-NT	98.5
4-NT	102.3
3-NT	94.2
PETN	90.7

Handwritten: 11/27/10

Total 1698.8

Average 106.2

Handwritten: 01/27/10

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): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01220013.wiff

Analysis Date: 22-JAN-10 13:34

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	102	102	
2,6-Diamino-4-nitrotoluene	100	99.1	99	
3,4-Dinitrotoluene	50	48.9	98	
3,5-Dinitroaniline	100	94.6	95	
TATB	100	99.6	100	
tris(o-cresyl) phosphate	100	100	100	

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%

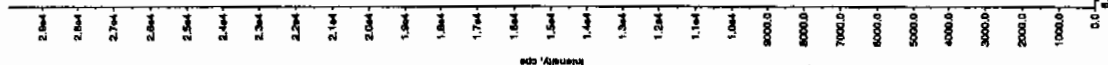
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 17/2010

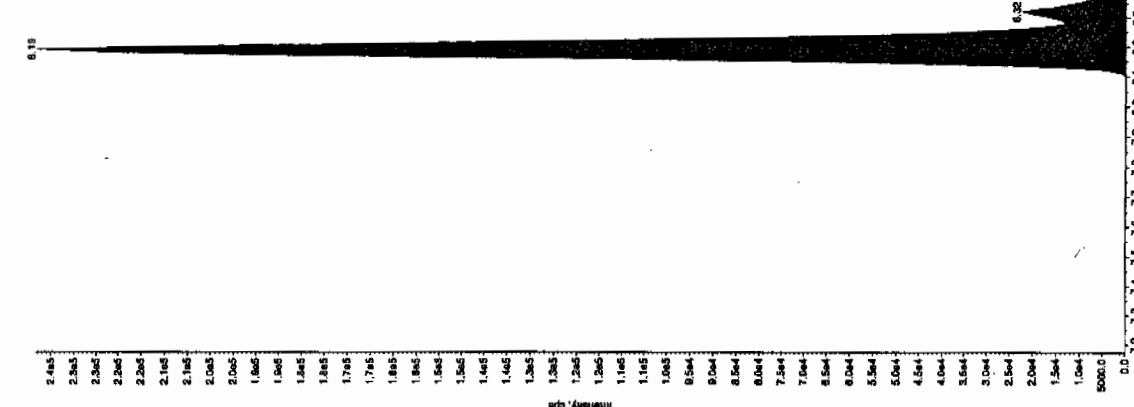
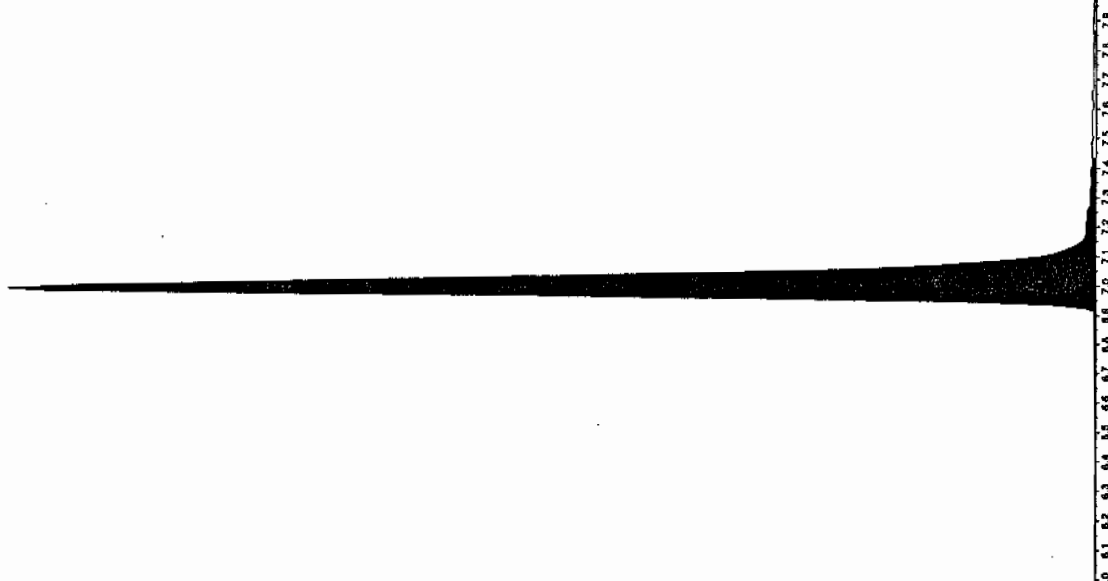
Sample Name: WXX100122-270R1 Sample ID: 111ER File: EX501220013.wif
Peak Name: TATB Mass(es): 237.2/204.9 amu
Comment: LCMSEXP_C Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100 ng/mL
Calculated Conc: 1/22/2010
Acq. Date: 1/22/2010
Acq. Time: 1:34:10 PM
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: 6.98 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 6.98 min
Height: 29931.585 cps
Start Time: 6.82 min
End Time: 7.43 min



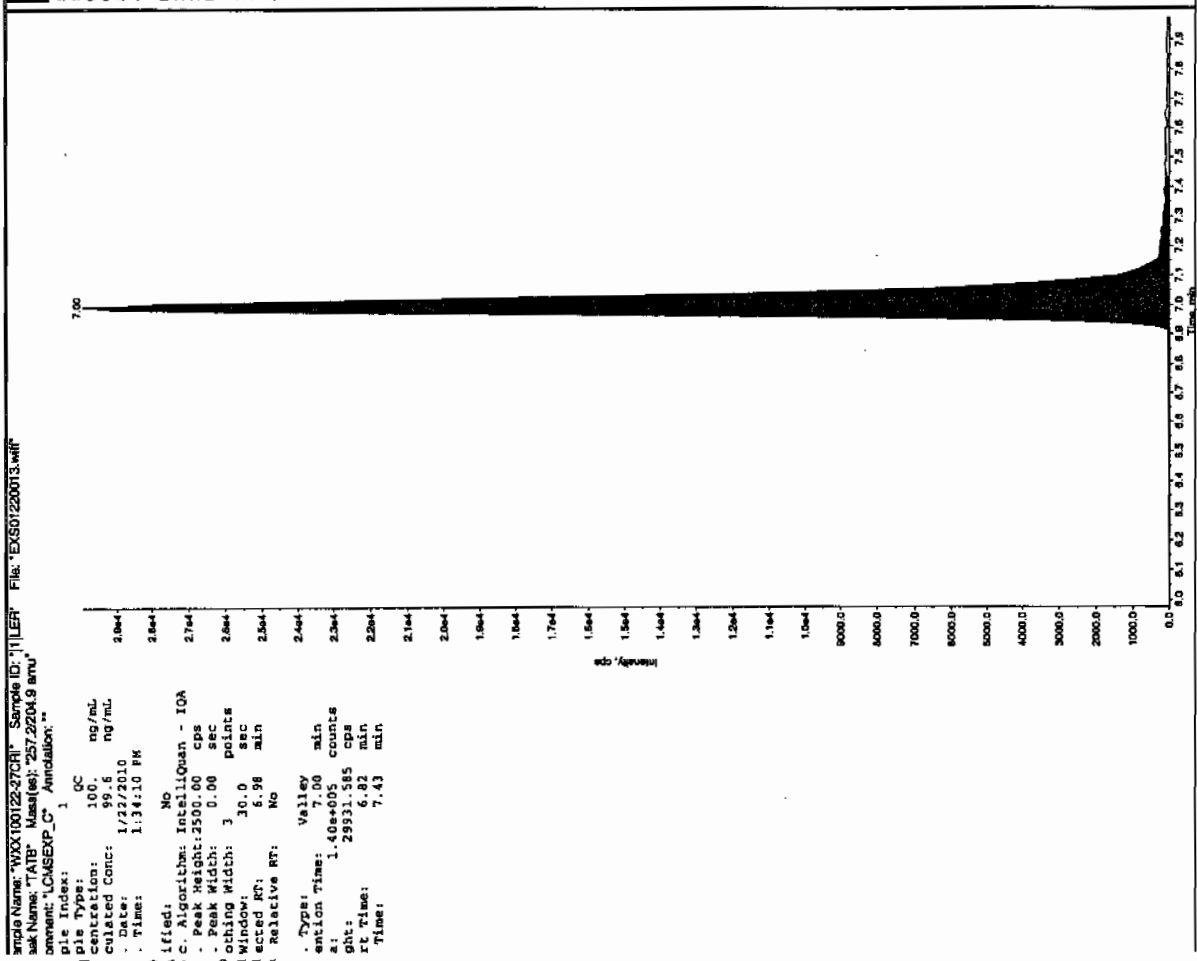
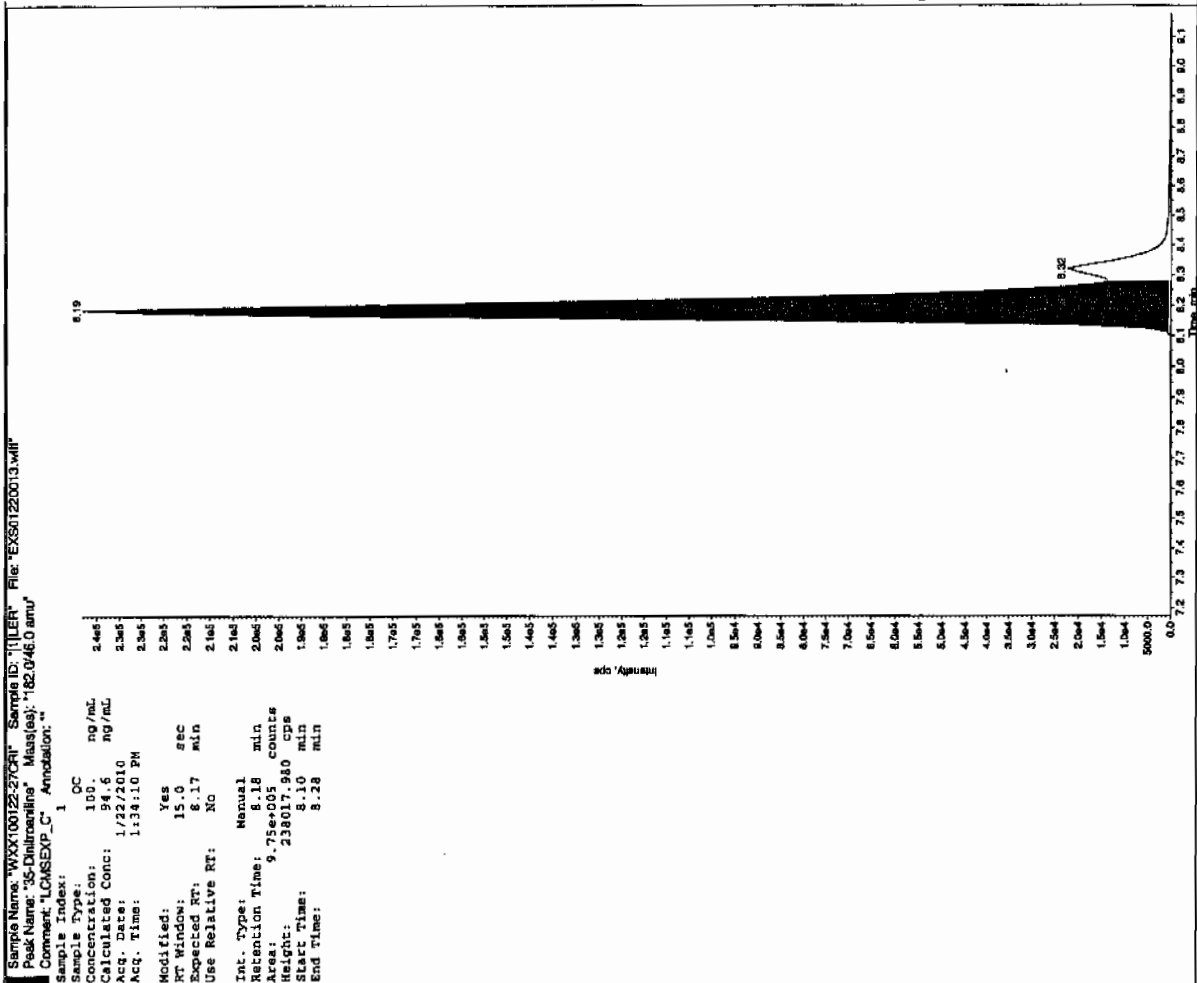
Sample Name: WXX100122-270R1 Sample ID: 111ER File: EX501220013.wif
Peak Name: 35-Dinitroaniline Mass(es): 182.0/165.0 amu
Comment: LCMSEXP_C Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100 ng/mL
Calculated Conc: 1/22/2010
Acq. Date: 1/22/2010
Acq. Time: 1:34:10 PM
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: 8.17 min
Height: 1.09e+06 counts
Start Time: 8.02 min
End Time: 8.82 min

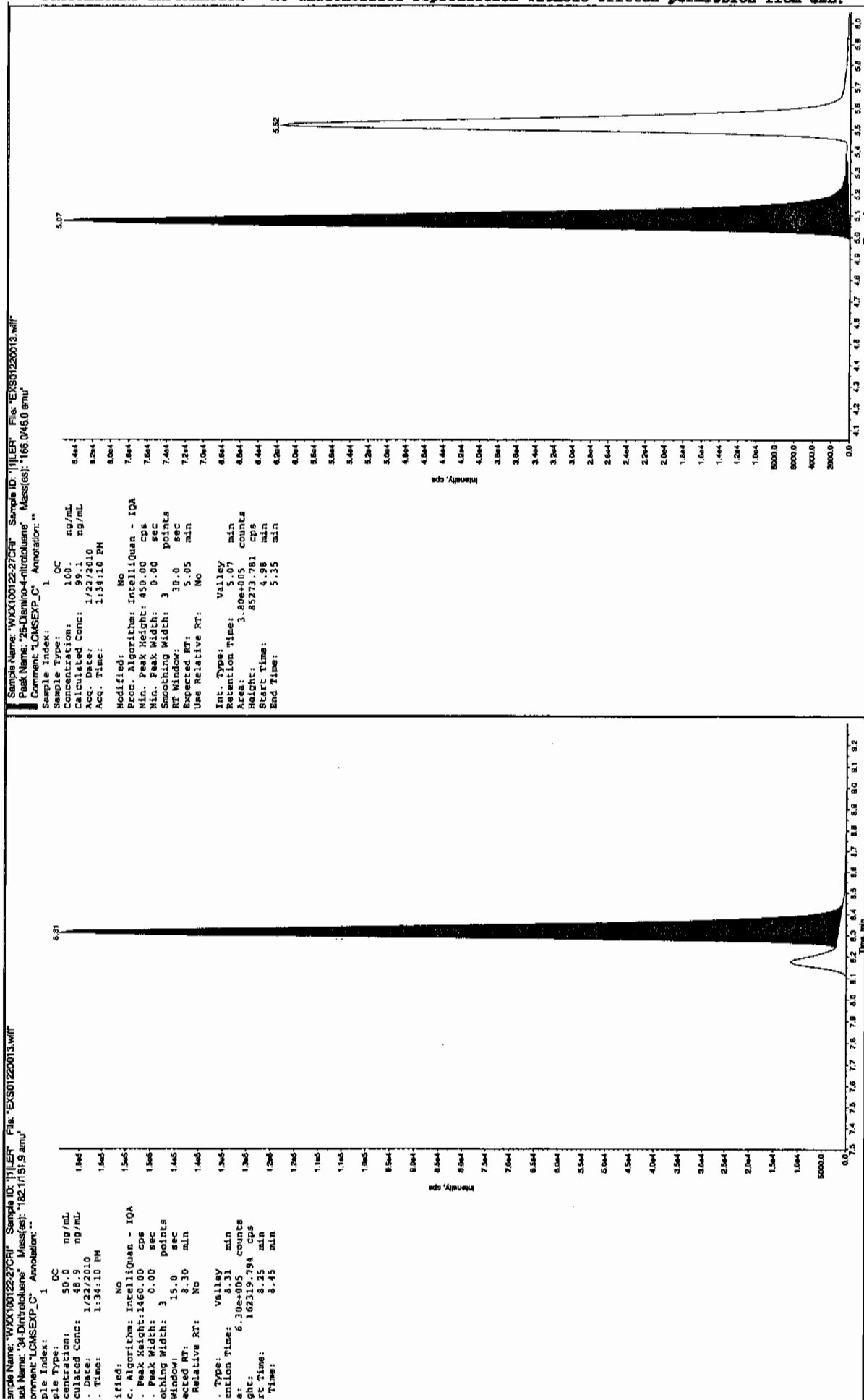


Hum 01/27/10

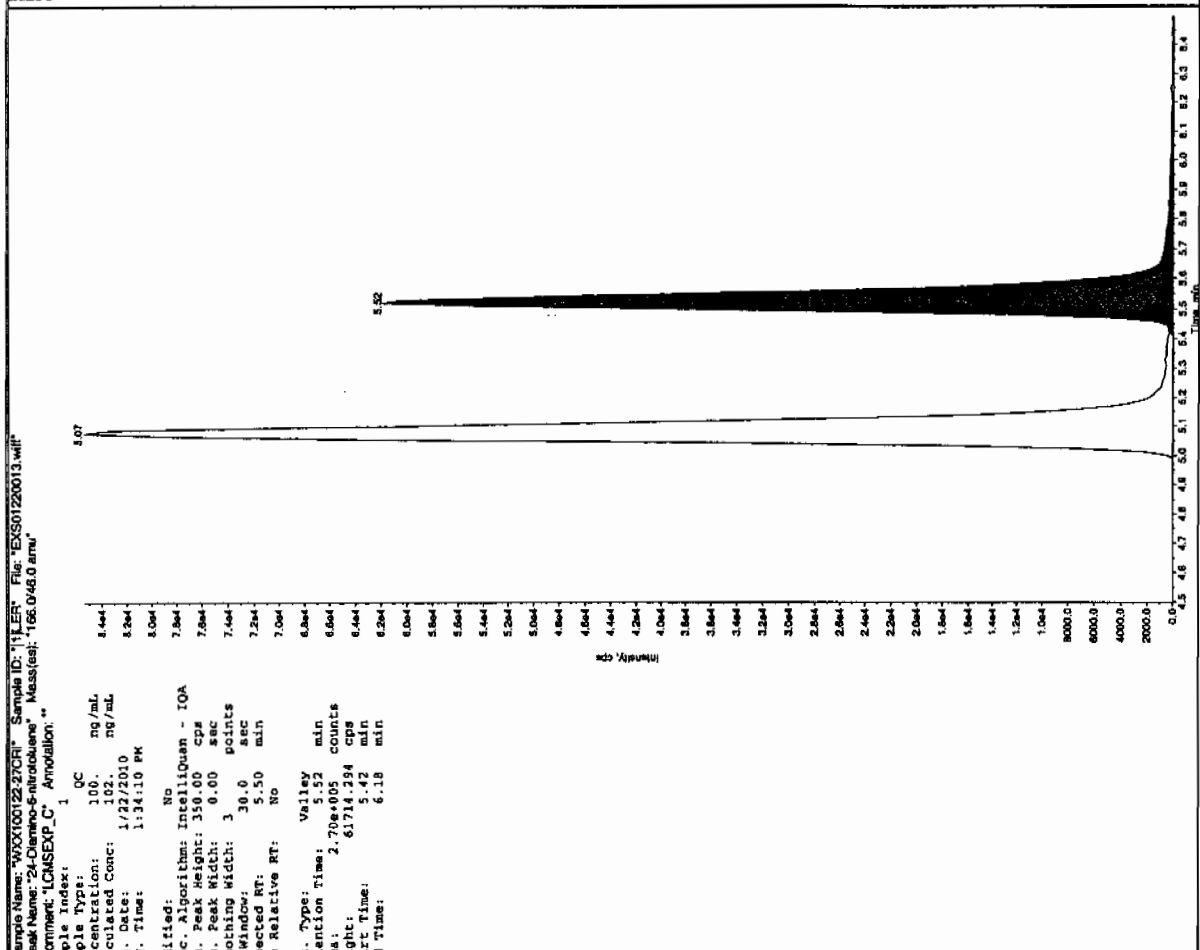
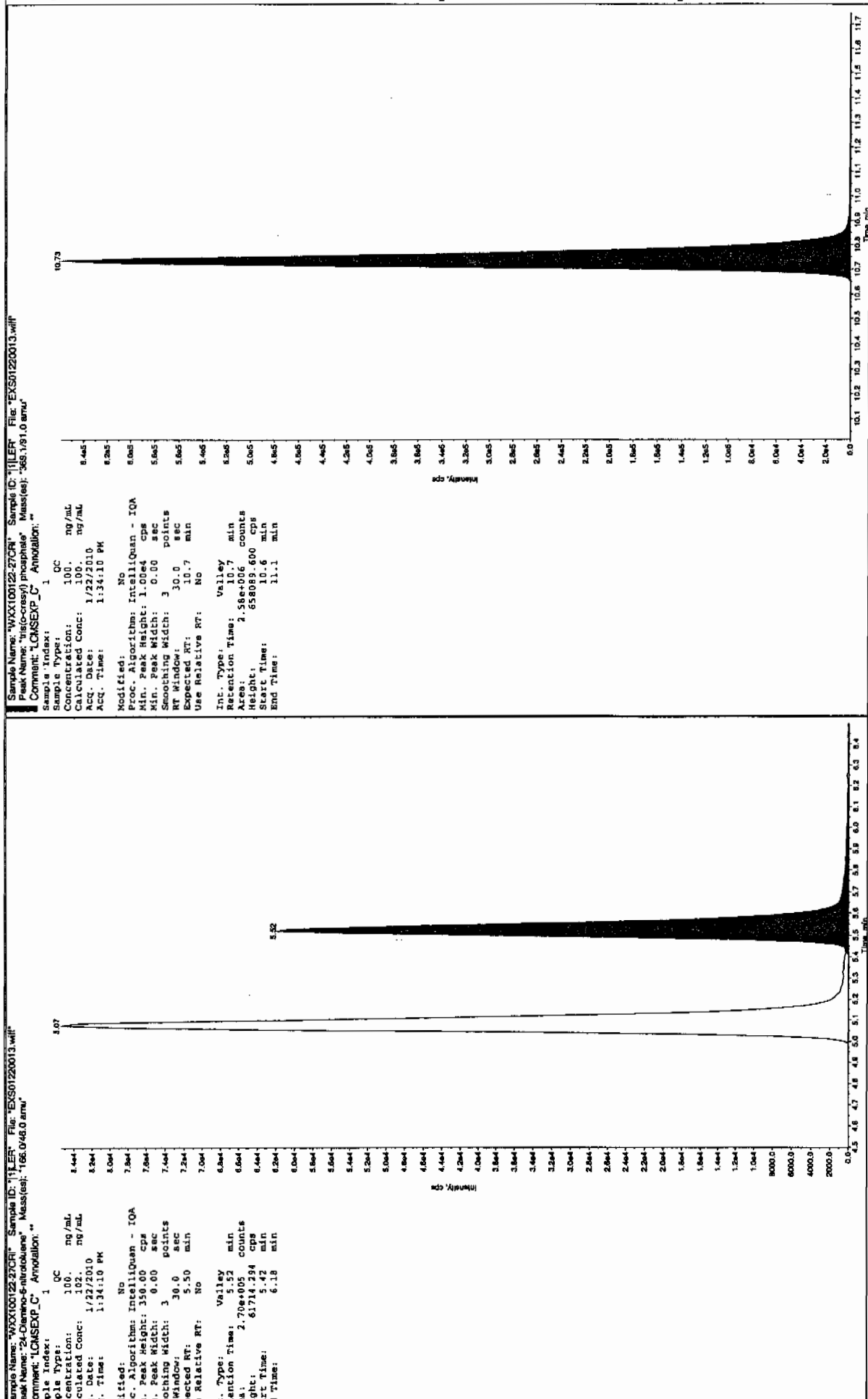
after den 11/25/10



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



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



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

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01220024.wiff

Analysis Date: 22-JAN-10 16:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	462	92	
2,6-Diamino-4-nitrotoluene	500	483	97	
3,4-Dinitrotoluene	250	240	96	
3,5-Dinitroaniline	500	523	105	
TATB	500	490	98	
tris(o-cresyl) phosphate	500	494	99	

Recovery Limits:

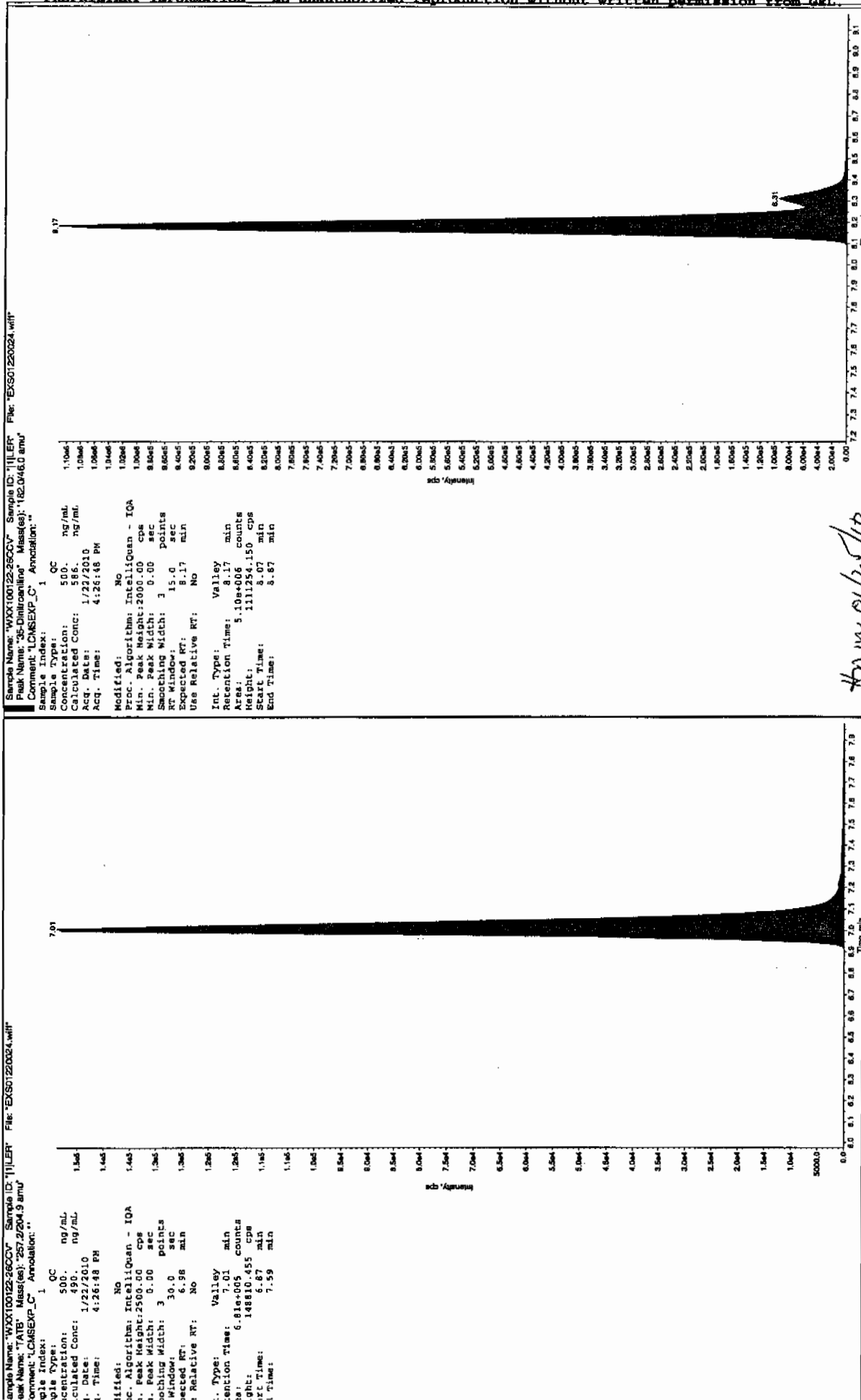
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

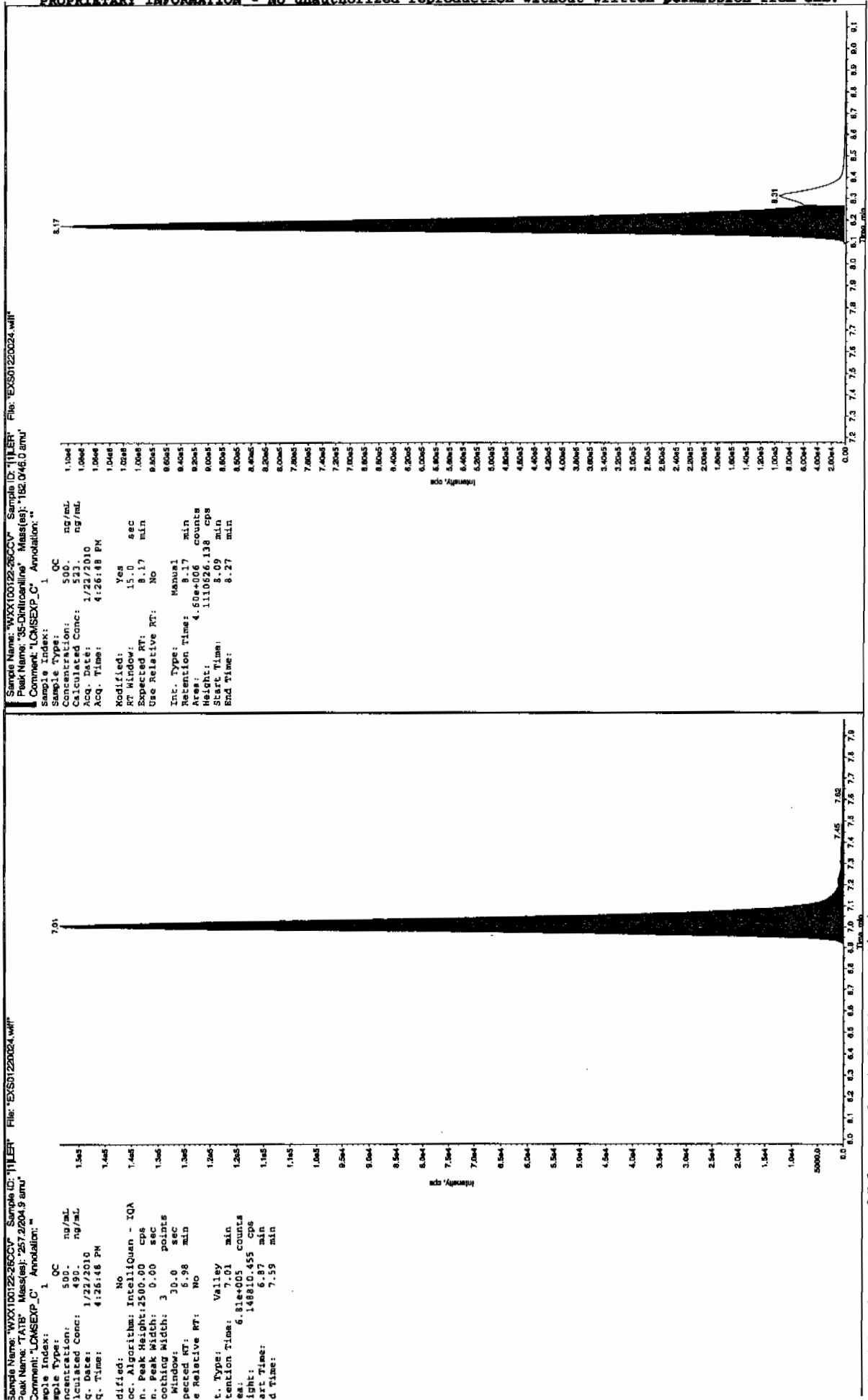
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 1/25/10



after Jan 11 2010

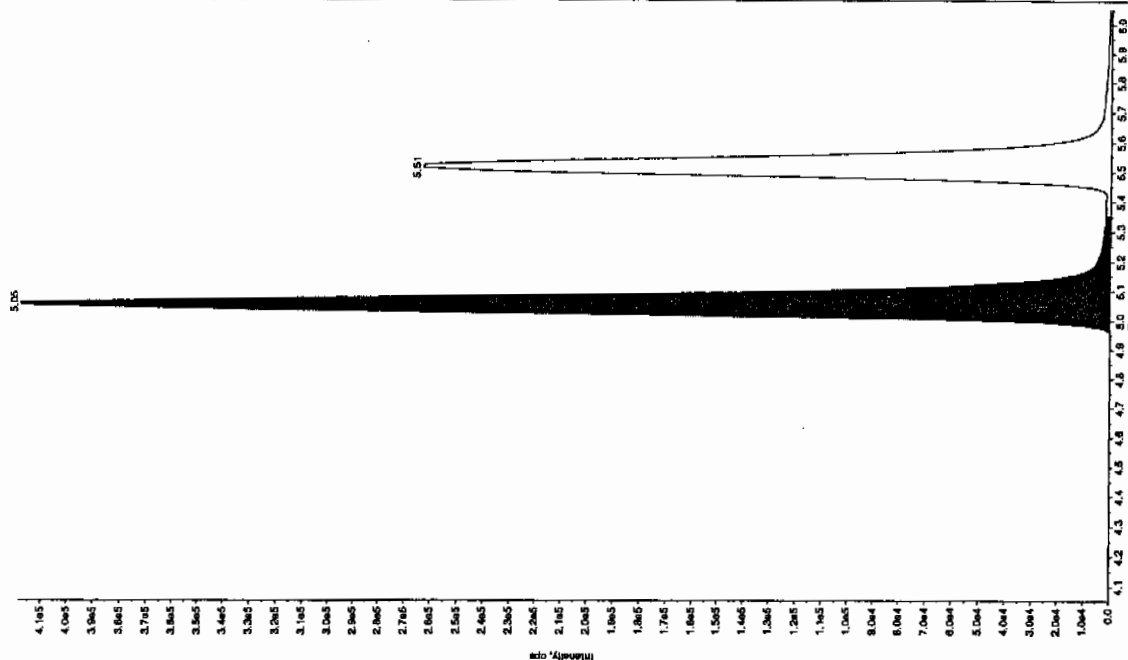


Sample Name: "WXX100122-26CCV" Sample ID: "111ER" File: "EXS0122024.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""
 Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 523. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:26:48 PM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.17 min
 Area: 4.60e+006 counts
 Height: 111026.138 cps
 Start Time: 8.09 min
 End Time: 8.27 min

Sample Name: "WXX100122-26CCV" Sample ID: "111ER" File: "EXS0122024.wif"
 Peak Name: "TATB" Mass(es): "267.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""
 Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 1/27/2010
 Acq. Date: 1/27/2010
 Acq. Time: 4:26:48 PM
 Modified: No
 oc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 2500.00 cps
 n. Peak Width: 0.00 sec
 n. Peak Width: 3 points
 Window: 30.0 sec
 Expected RT: 5.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.01 min
 Area: 6.81e+005 counts
 Height: 148810.455 cps
 Start Time: 6.87 min
 End Time: 7.33 min

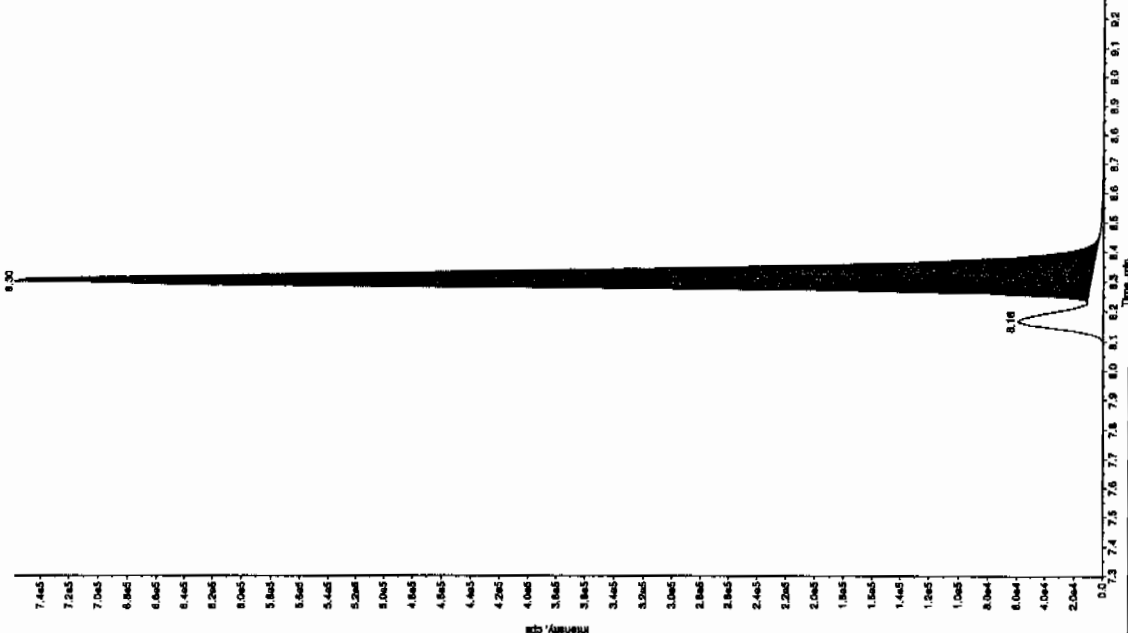
Sample Name: "WXX100122-2500V" Sample ID: "11LEP" File: "EXS01220024.wif"
 Peak Name: "26-Dinitrofluorene" Mass(es): "166.0450 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 OC
 Sample Type: Concentration: 500. ng/mL
 Calculated Conc: 483. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:26:48 PM
 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: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.05 min
 Height: 1.89e+006 counts
 Width: 41820.635 cps
 Start Time: 4.84 min
 End Time: 5.35 min



Sample Name: "WXX100122-2500V" Sample ID: "11LEP" File: "EXS01220024.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1513 amu"
 Comment: "LCMSEXP_C" Annotation: ""

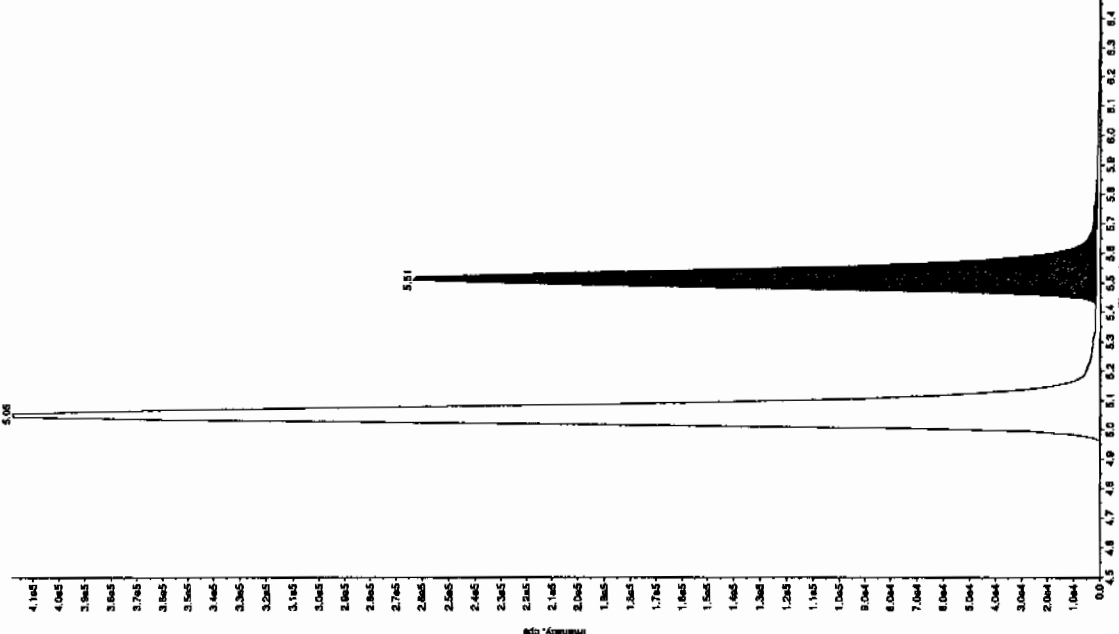
Sample Index: 1 OC
 Sample Type: Concentration: 250. ng/mL
 Calculated Conc: 240. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:26:48 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.30 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.30 min
 Height: 3.04e+006 counts
 Width: 74984.666 cps
 Start Time: 8.24 min
 End Time: 8.46 min



Sample Name: "WXX100122-280CV" Sample ID: "111ER" File: "EXS01220024.wif"
 Peak Name: "24-Diamino-6-nitrochlorine" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 494. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:26:48 PM

Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 n. Peak Height: 1.00e4 cps
 n. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.7 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 1.13e+007 counts
 Height: 2829809.814 cps
 Start Time: 10.6 min
 End Time: 11.1 min



Sample Name: "WXX100122-280CV" Sample ID: "111ER" File: "EXS01220024.wif"
 Peak Name: "24-Diamino-6-nitrochlorine" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 494. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:26:48 PM

Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 n. Peak Height: 350.00 cps
 n. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 5.51 min
 Area: 1.19e+006 counts
 Height: 26191.591 cps
 Start Time: 5.43 min
 End Time: 5.59 min

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01220026.wiff

Analysis Date: 22-JAN-10 16:58

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	92.1	92	
2,6-Diamino-4-nitrotoluene	100	95.1	95	
3,4-Dinitrotoluene	50	51	102	
3,5-Dinitroaniline	100	99.3	99	
TATB	100	102	102	
tris(o-cresyl) phosphate	100	97.1	97	

Recovery Limits:

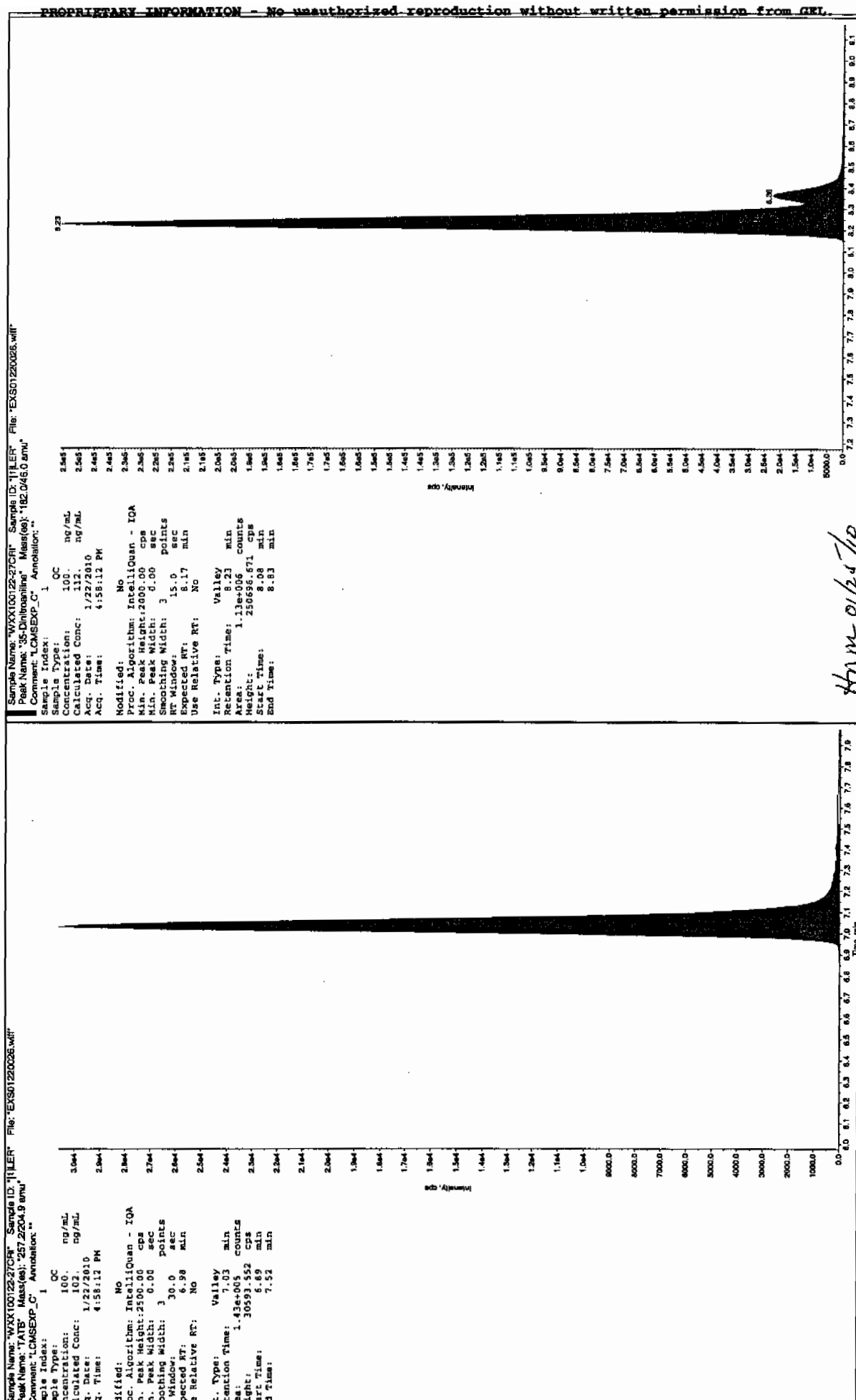
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

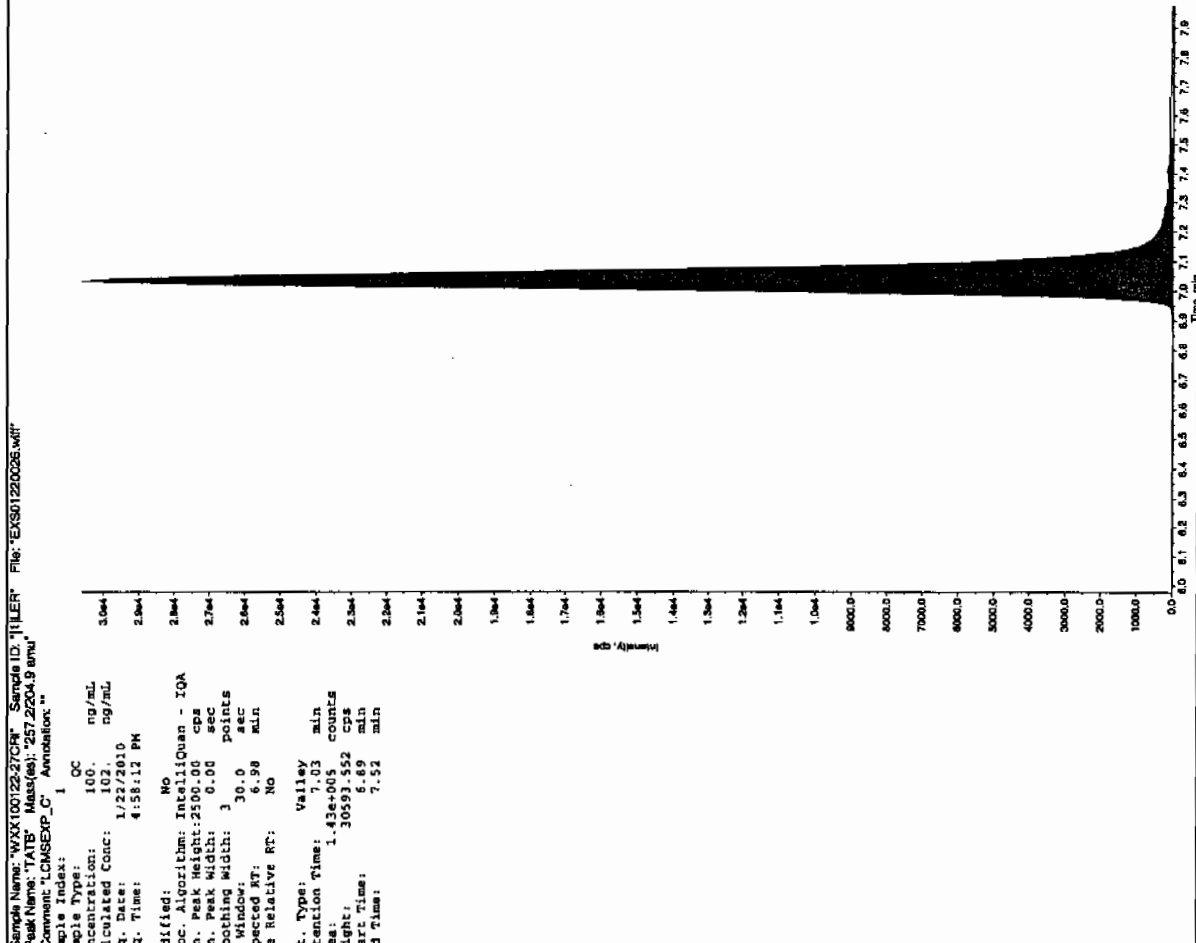
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Dec 1/25/10

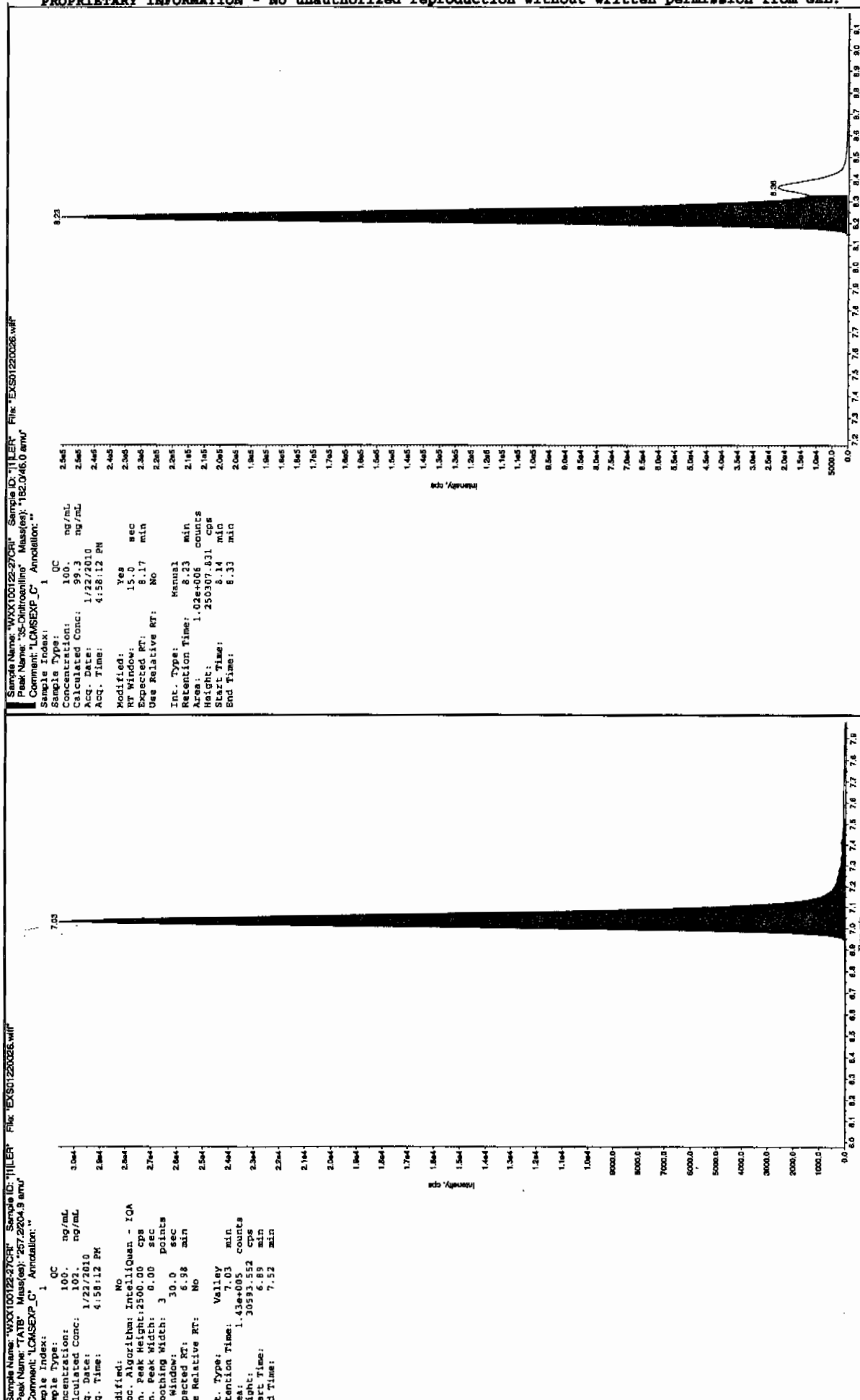


After 01/25/10

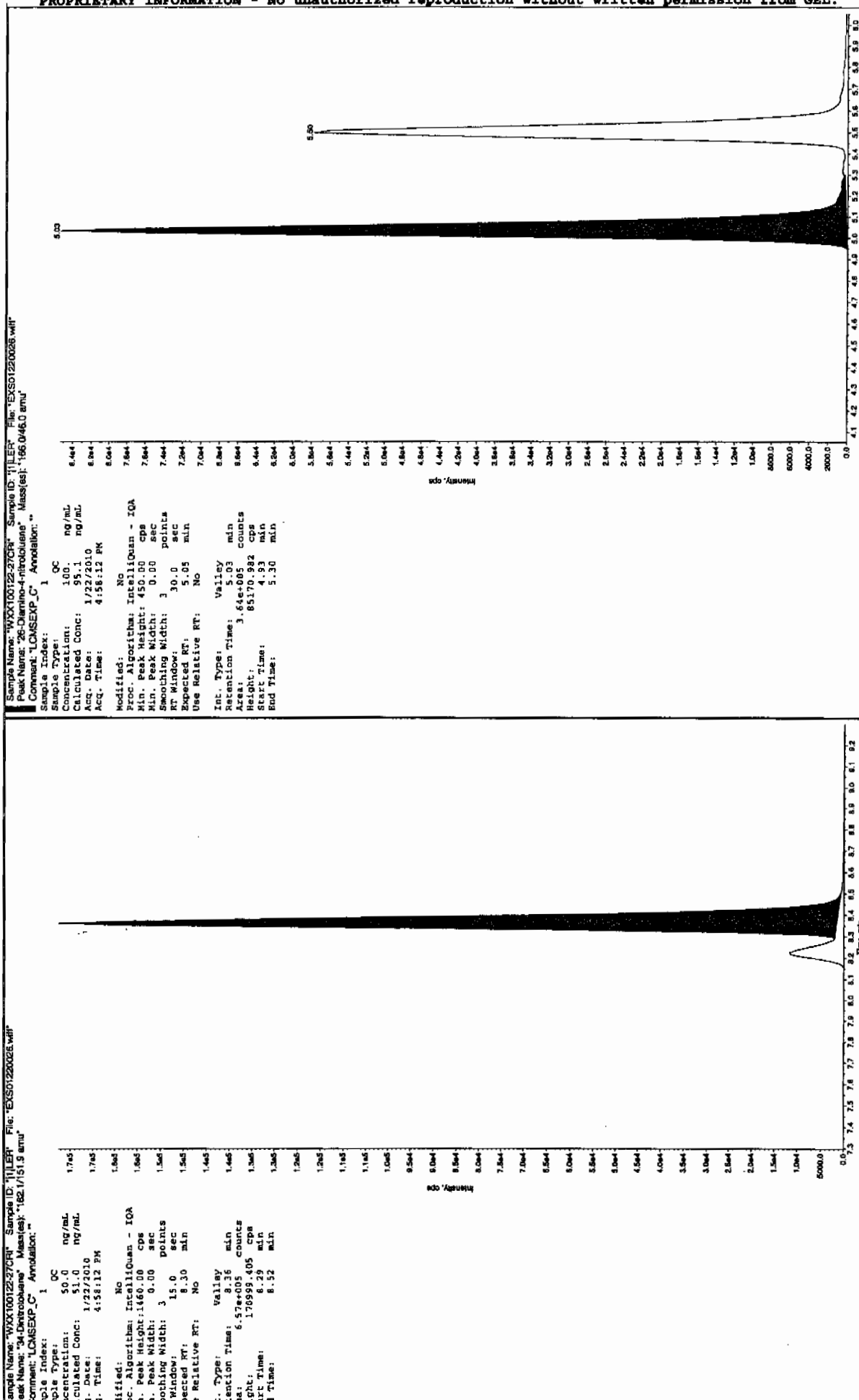


EL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

after Jan 11/25/10

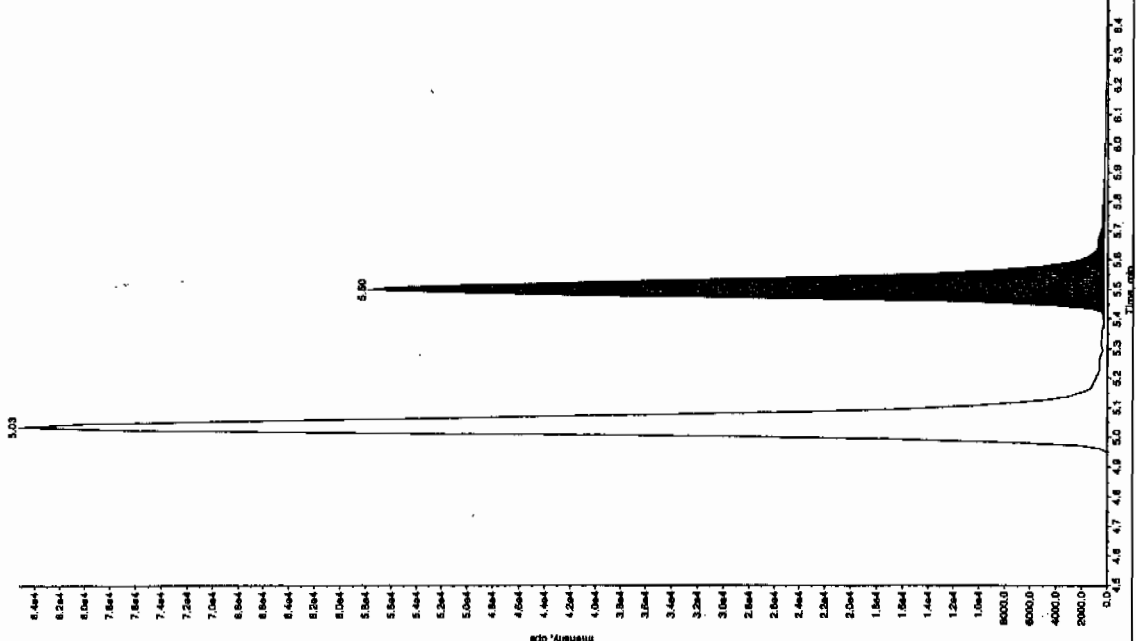


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



Sample Name: "VXX100122-270P" Sample ID: "HLEP" File: "EXS01220026.w" File: "EXS01220026.w"
 Peak Name: "4.58-OC-6-methylphosphate" Mass(es): 385.191.0 amu
 Comment: "LCMS-EXP-C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 100 ng/mL
 Calculated Conc: 97.1 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:58:12 PM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.7 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.6 min
 Area: 2.51e+006 counts
 Weight: 604270.935 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Sample Name: "VXX100122-270P" Sample ID: "HLEP" File: "EXS01220026.w" File: "EXS01220026.w"
 Peak Name: "4.58-OC-6-methylphosphate" Mass(es): 156.045.0 amu
 Comment: "LCMS-EXP-C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 100 ng/mL
 Calculated Conc: 92.1 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 4:58:12 PM
 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: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.50 min
 Area: 2.46e+005 counts
 Weight: 57492.550 cps
 Start Time: 5.38 min
 End Time: 5.69 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01220037.wiff

Analysis Date: 22-JAN-10 19:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	504	101	
2,6-Diamino-4-nitrotoluene	500	510	102	
3,4-Dinitrotoluene	250	244	98	
3,5-Dinitroaniline	500	578	116	
TATB	500	512	102	
tris(o-cresyl) phosphate	500	499	100	

Recovery Limits:

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

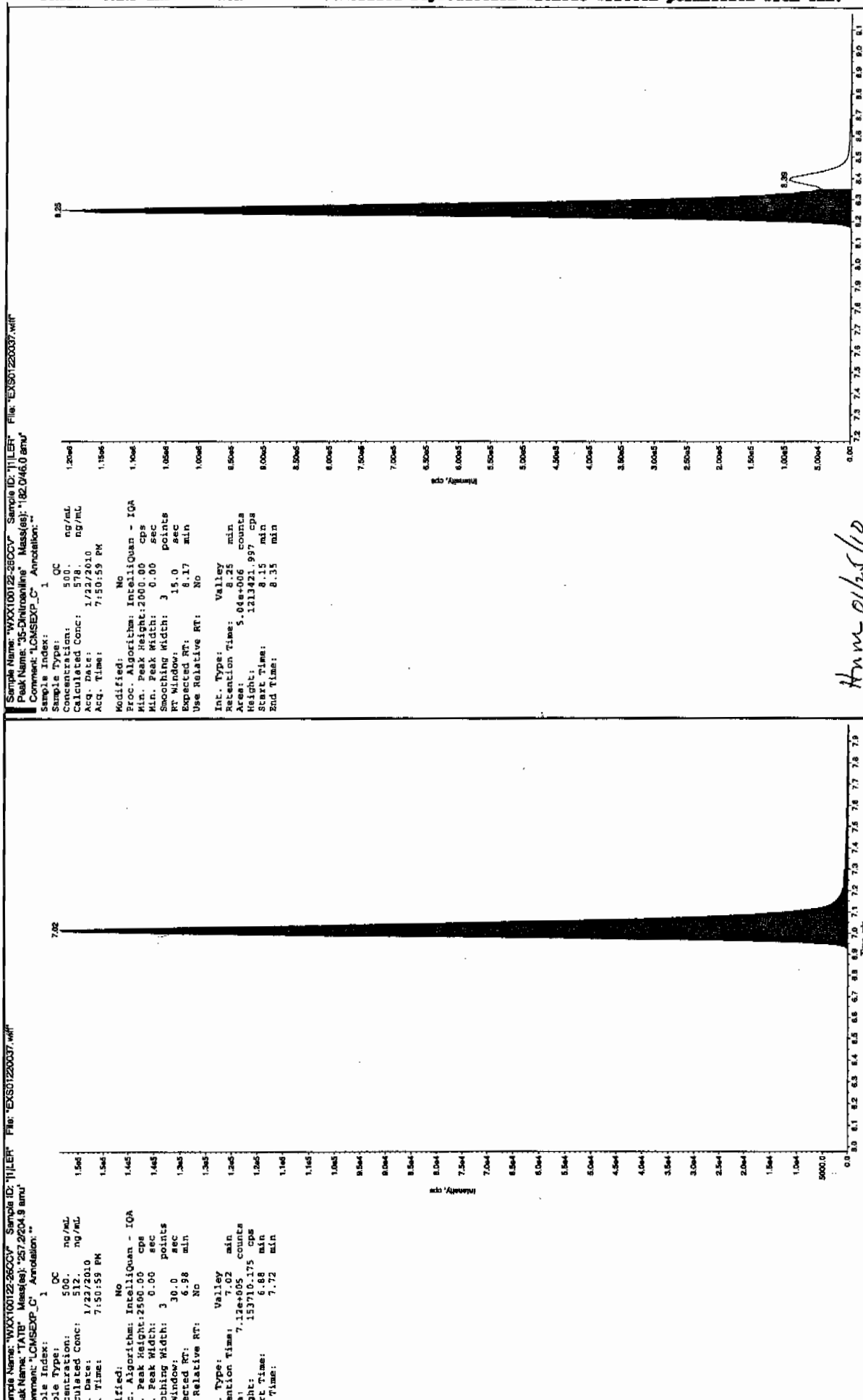
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

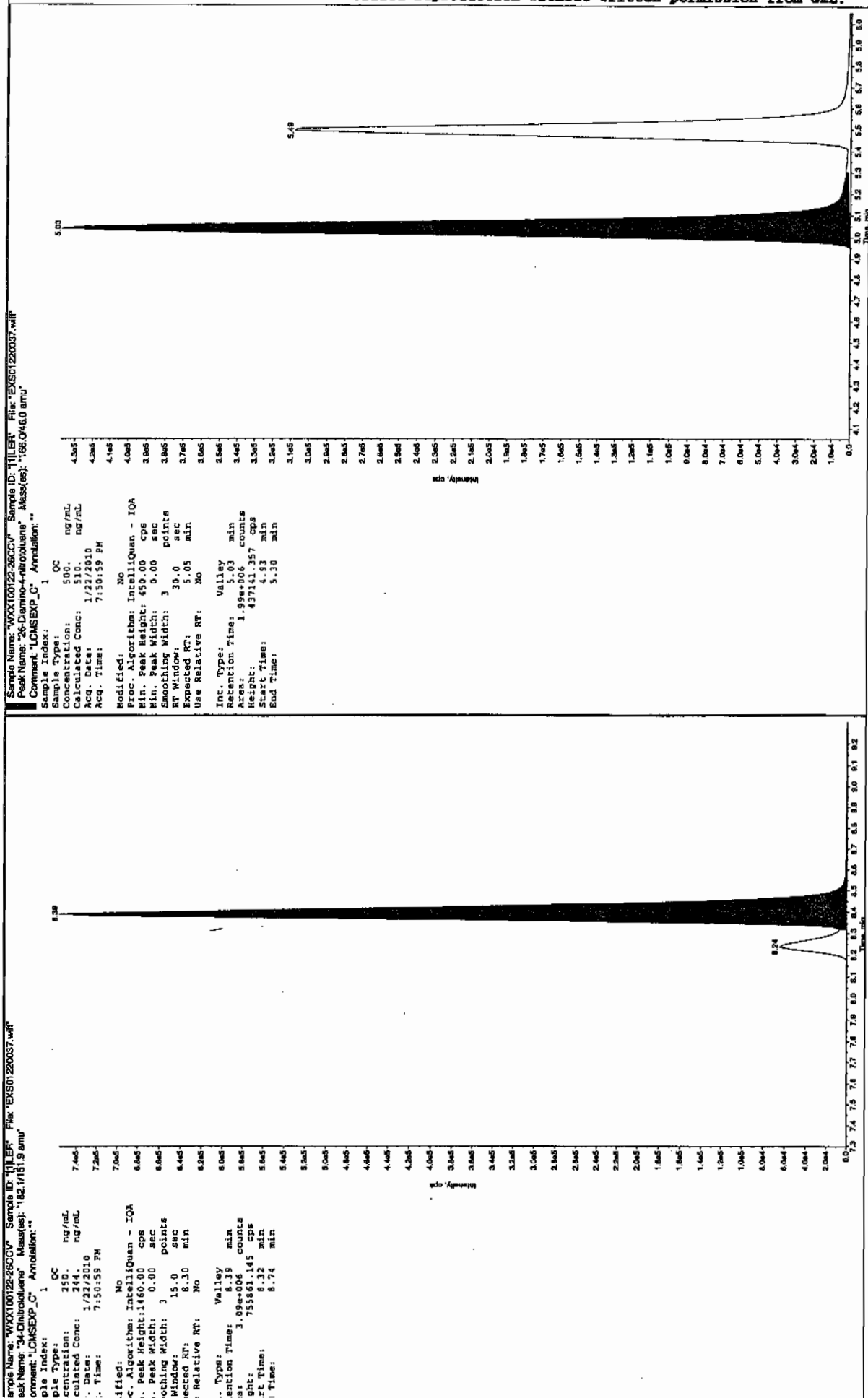
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 125710



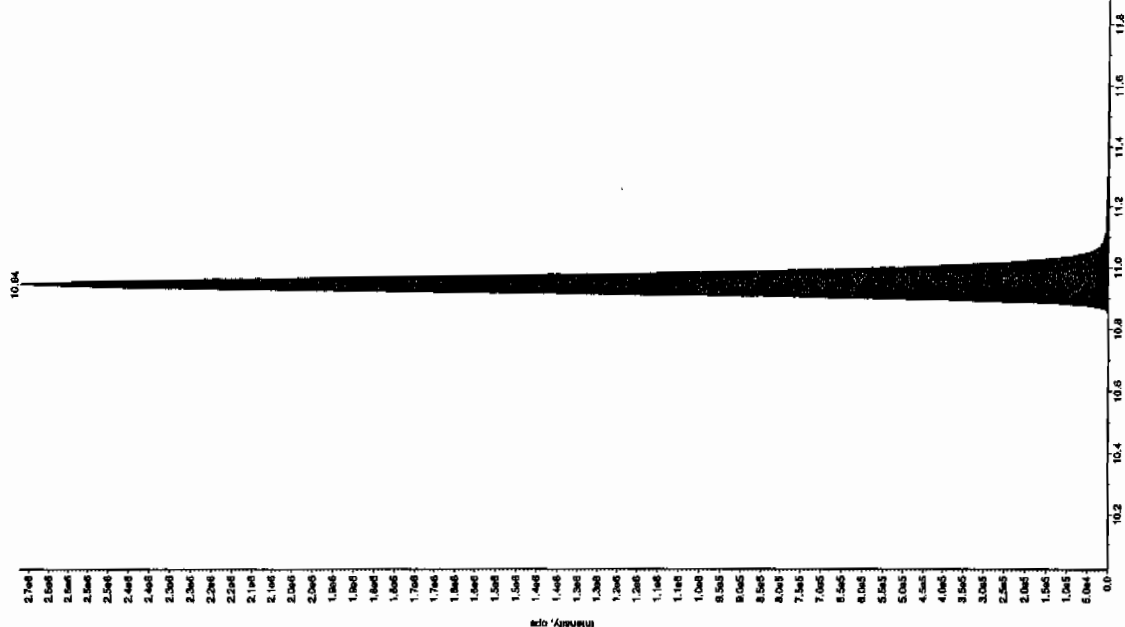
See 0125710



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

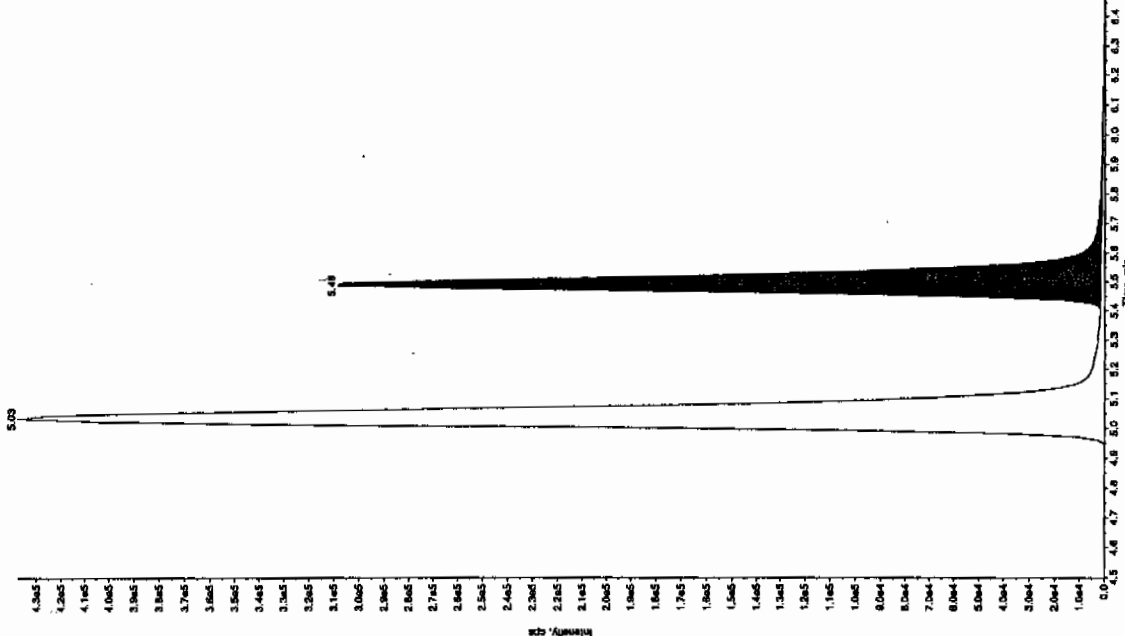
Sample Name: WXX100122-282CV7 Sample ID: 111877 File: EX501220037.wif
 Peak Name: Tris(OCPhenyl) phosphite Mass(es): 385.191.0 amu
 Comment: LCMSEXP_C Annotation:

Sample Index: 1
 Sample Type: OC
 Retention Time: 5.00 min
 Calculated Conc: 499 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 7:50:59 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1.00e4 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: 1.14e+007 counts
 Height: 2670783.203 cps
 Start Time: 10.8 min
 End Time: 11.3 min



Sample Name: WXX100122-282CV7 Sample ID: 111877 File: EX501220037.wif
 Peak Name: 24 Chloro-6-methoxyphenol Mass(es): 166.046.0 amu
 Comment: LCMSEXP_C Annotation:

Sample Index: 1
 Sample Type: OC
 Retention Time: 5.00 min
 Calculated Conc: 504 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 7:50:59 PM
 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: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.49 min
 Area: 1.30e+006 counts
 Height: 30624.585 cps
 Start Time: 5.40 min
 End Time: 5.56 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXS01220039.wiff

Analysis Date: 22-JAN-10 20:22

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	96.4	96	
2,6-Diamino-4-nitrotoluene	100	108	108	
3,4-Dinitrotoluene	50	50.1	100	
3,5-Dinitroaniline	100	102	102	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	100	100	

Recovery Limits:

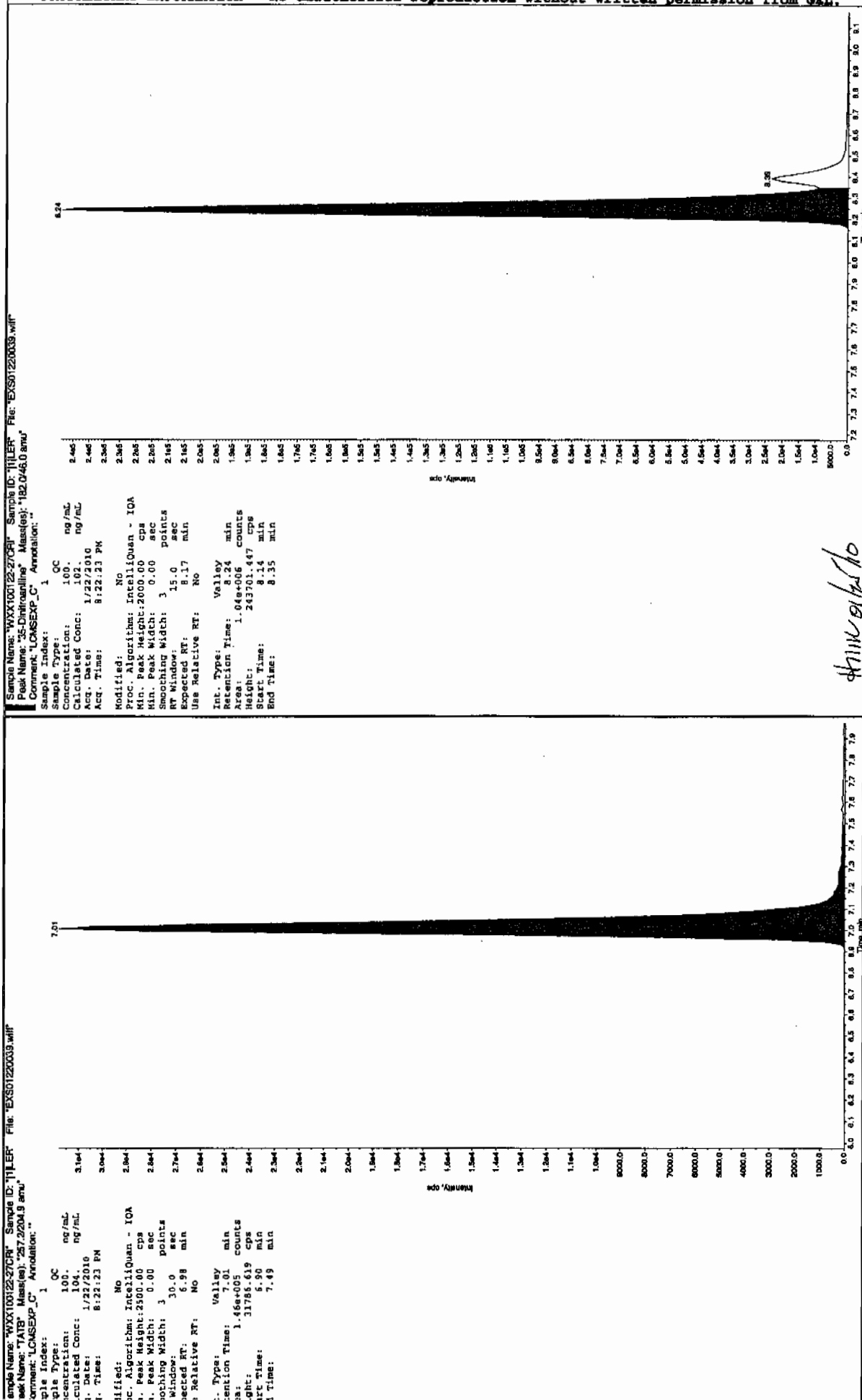
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

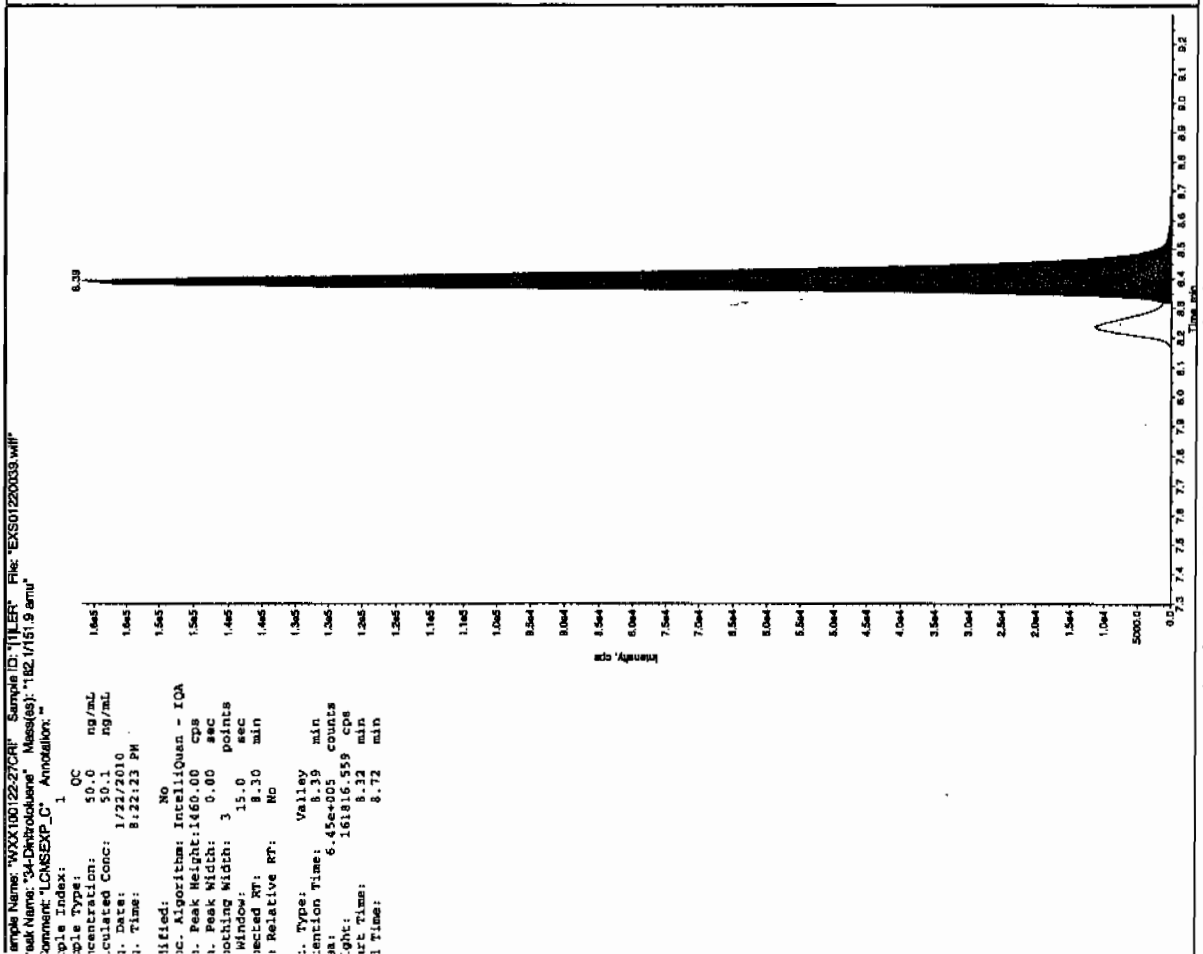
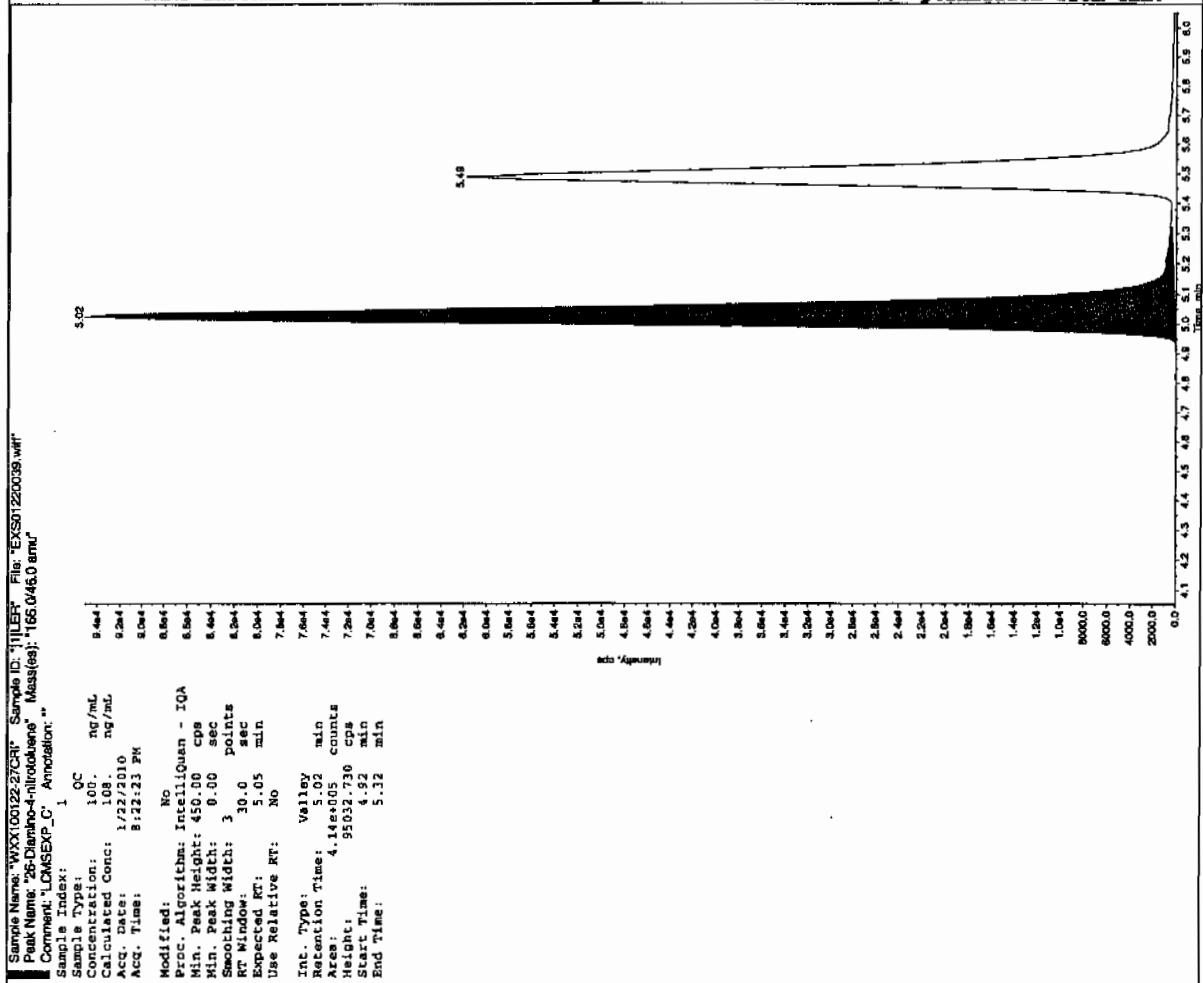
Column used to flag Recovery outside of Limits

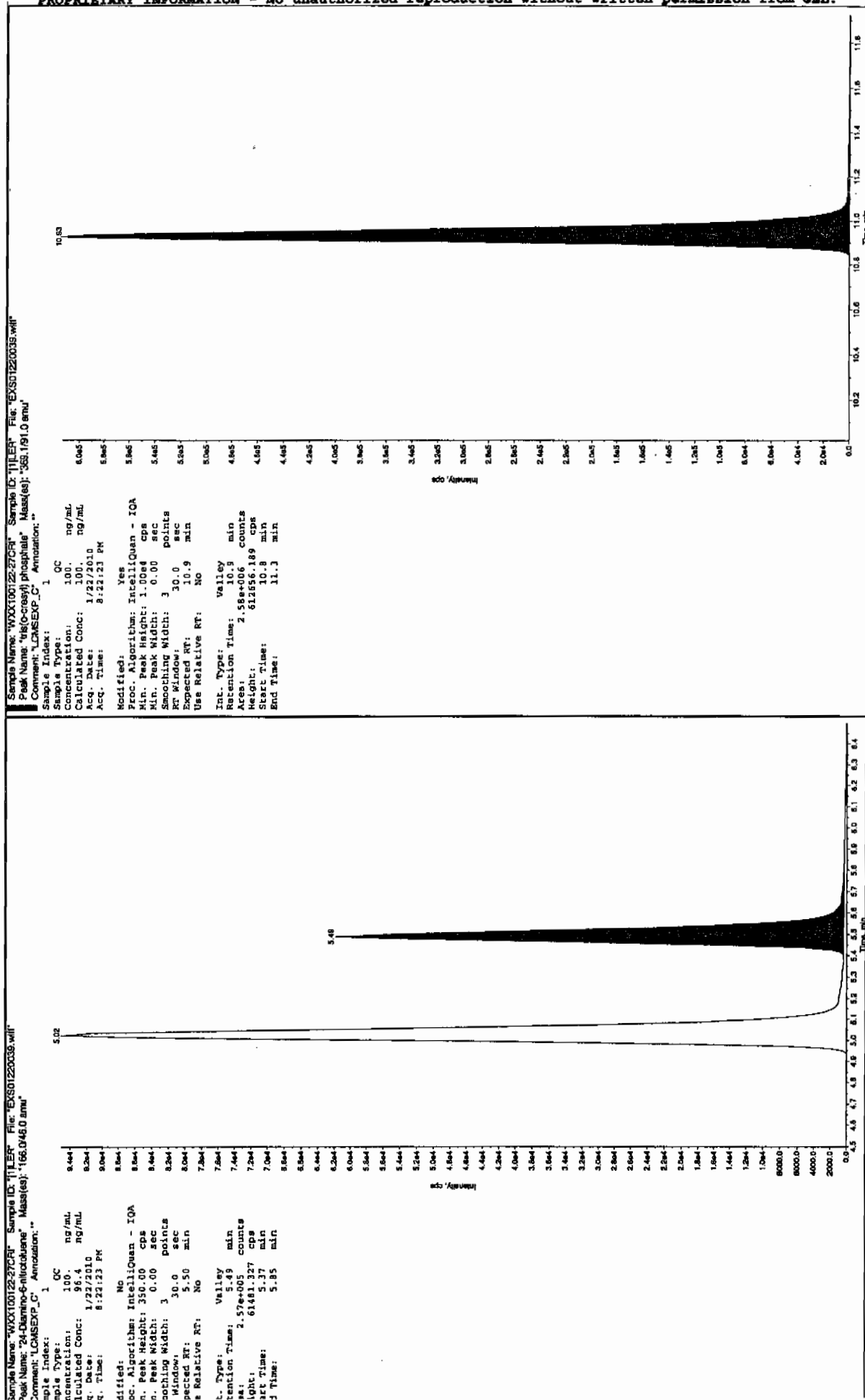
* Value outside of Recovery Limits

Ken 1/25/10



4/11/01/2/10





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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01220050.wiff

Analysis Date: 22-JAN-10 23:15

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	531	106	
2,6-Diamino-4-nitrotoluene	500	513	103	
3,4-Dinitrotoluene	250	253	101	
3,5-Dinitroaniline	500	568	114	
TATB	500	514	103	
tris(o-cresyl) phosphate	500	501	100	

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%

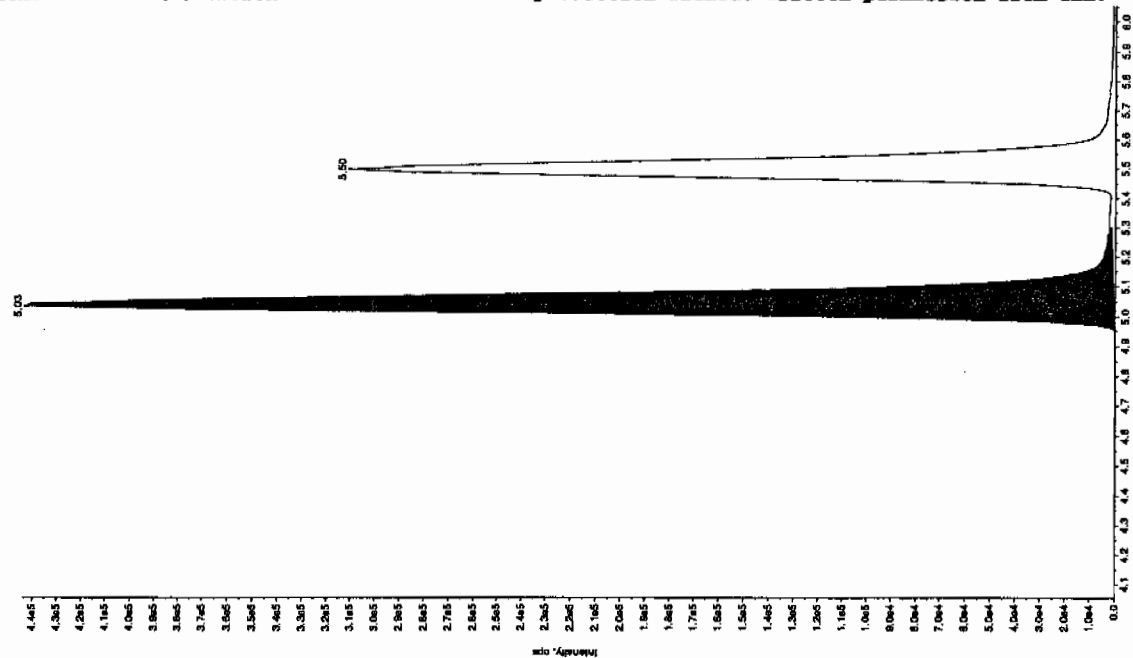
Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

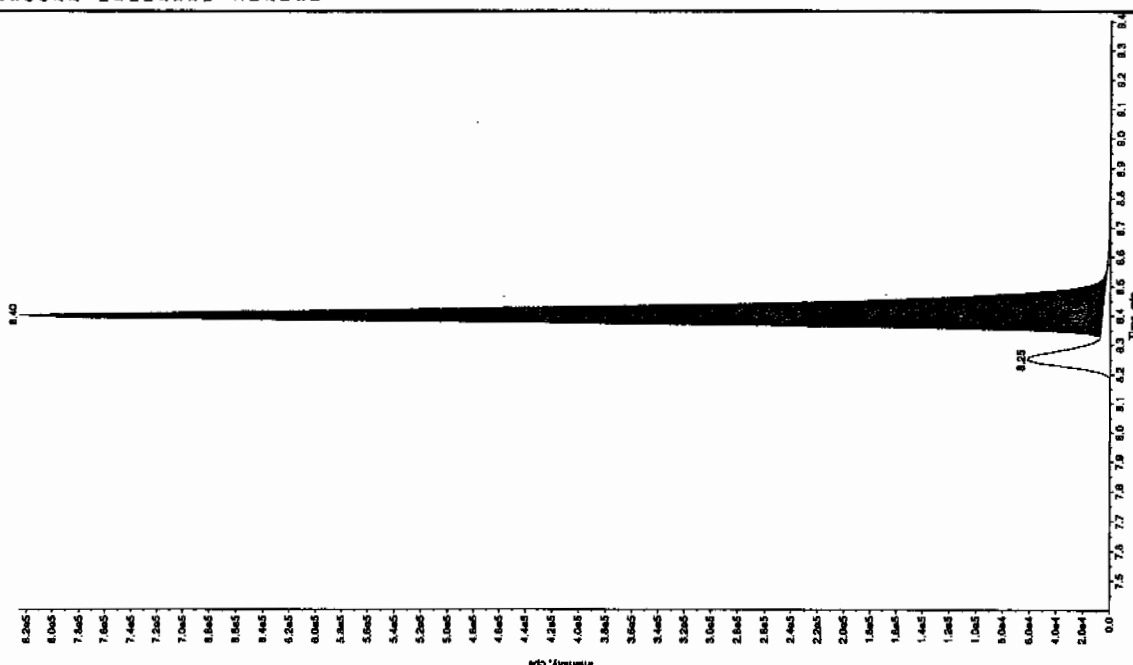
Sample Name: WXX100122-260CV Sample ID: 111ER File: EX501220050.wiff
 Peak Name: 25-Diamino-4-nitrotoluene Mass(es): 156.0460 amu
 Comment: LCMSEXP_C Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 513. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 11:15:16 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Search Width: 30.0 points
 ST Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.03 min
 Area: 2.01e+006 counts
 Weight: 443409.912 cps
 Start Time: 4.94 min
 End Time: 5.30 min



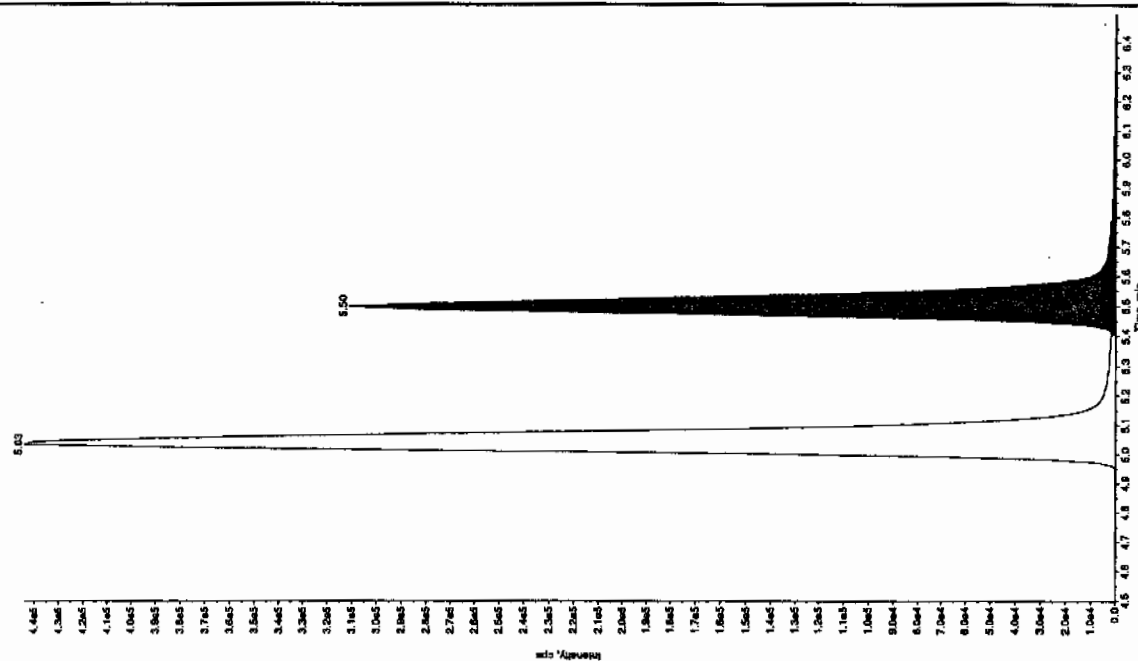
Sample Name: WXX100122-260CV Sample ID: 111ER File: EX501220050.wiff
 Peak Name: 34-Dinitrotoluene Mass(es): 182.1519 amu
 Comment: LCMSEXP_C Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 1727/2010
 Acq. Date: 1/22/2010
 Acq. Time: 11:15:14 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Search Width: 30.0 points
 ST Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.40 min
 Area: 3.19e+006 counts
 Weight: 819902.588 cps
 Start Time: 8.33 min
 End Time: 8.57 min



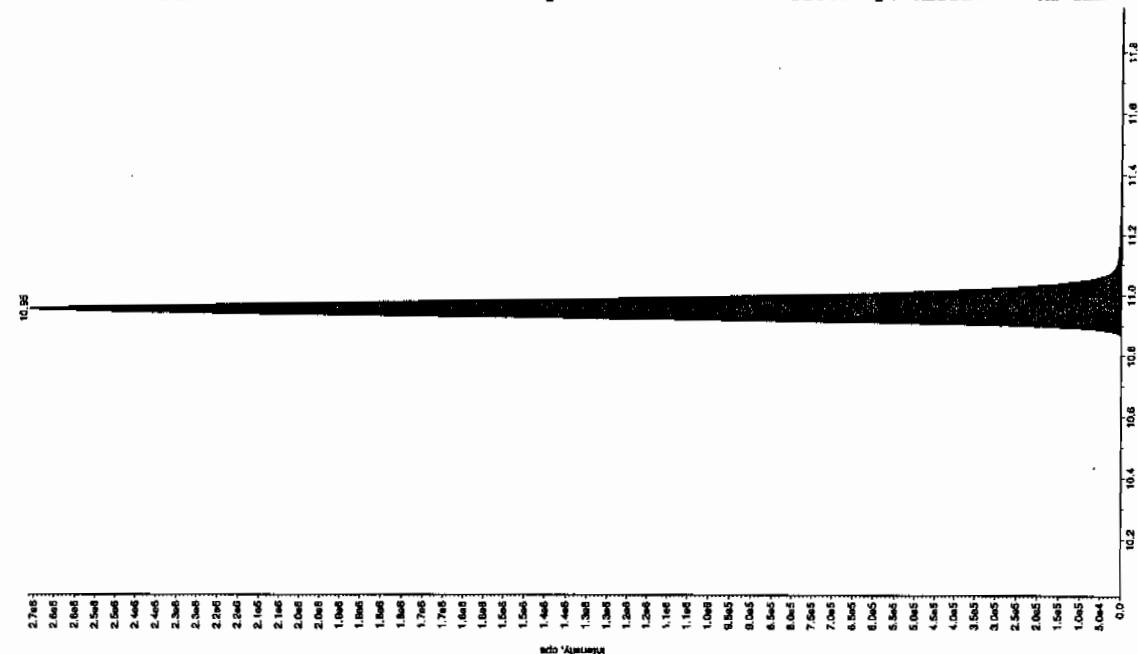
Sample Name: "WXX100122-2600V" Sample ID: "HLEP" File: "EXS01220050.wif"
 Peak Name: "2A-Diethyl-6-methoxy" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 531. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 11:15:14 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 350.00 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.50 min
 Area: 1.36e+006 counts
 Height: 310924.880 cps
 Start Time: 2.11 min
 End Time: 8.14 min



Sample Name: "WXX100122-2600V" Sample ID: "HLEP" File: "EXS01220050.wif"
 Peak Name: "Tri(n-butyl) phosphate" Mass(es): "386.1791.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 501. ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 11:15:14 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 1.03e4 cps
 In. 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: 1.15e+007 counts
 Height: 2661674.072 cps
 Start Time: 10.8 min
 End Time: 11.3 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1131

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01220052.wiff

Analysis Date: 22-JAN-10 23:46

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.1	99	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	108	108	
TATB	100	105	105	
tris(o-cresyl) phosphate	100	101	101	

Recovery Limits:

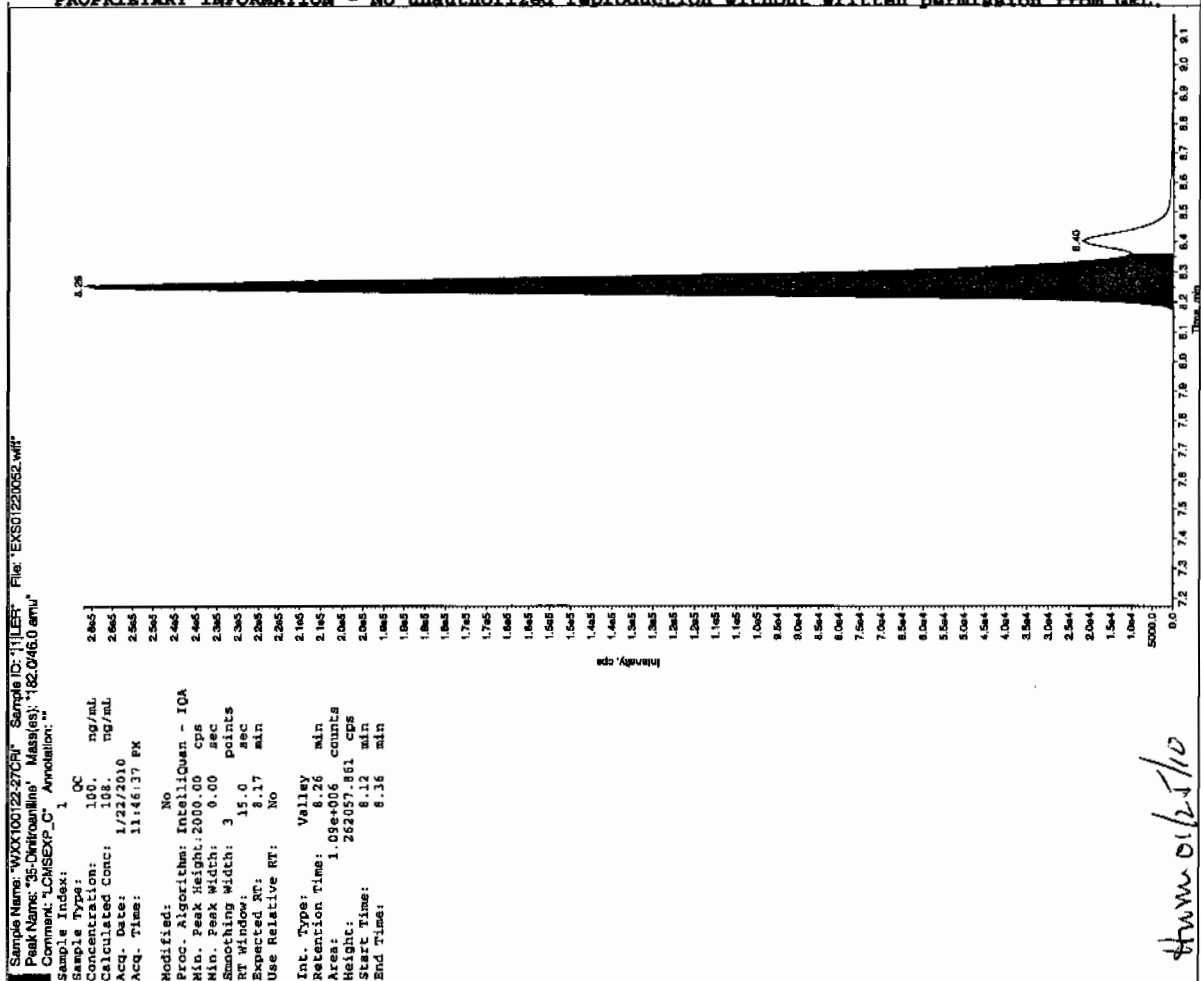
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

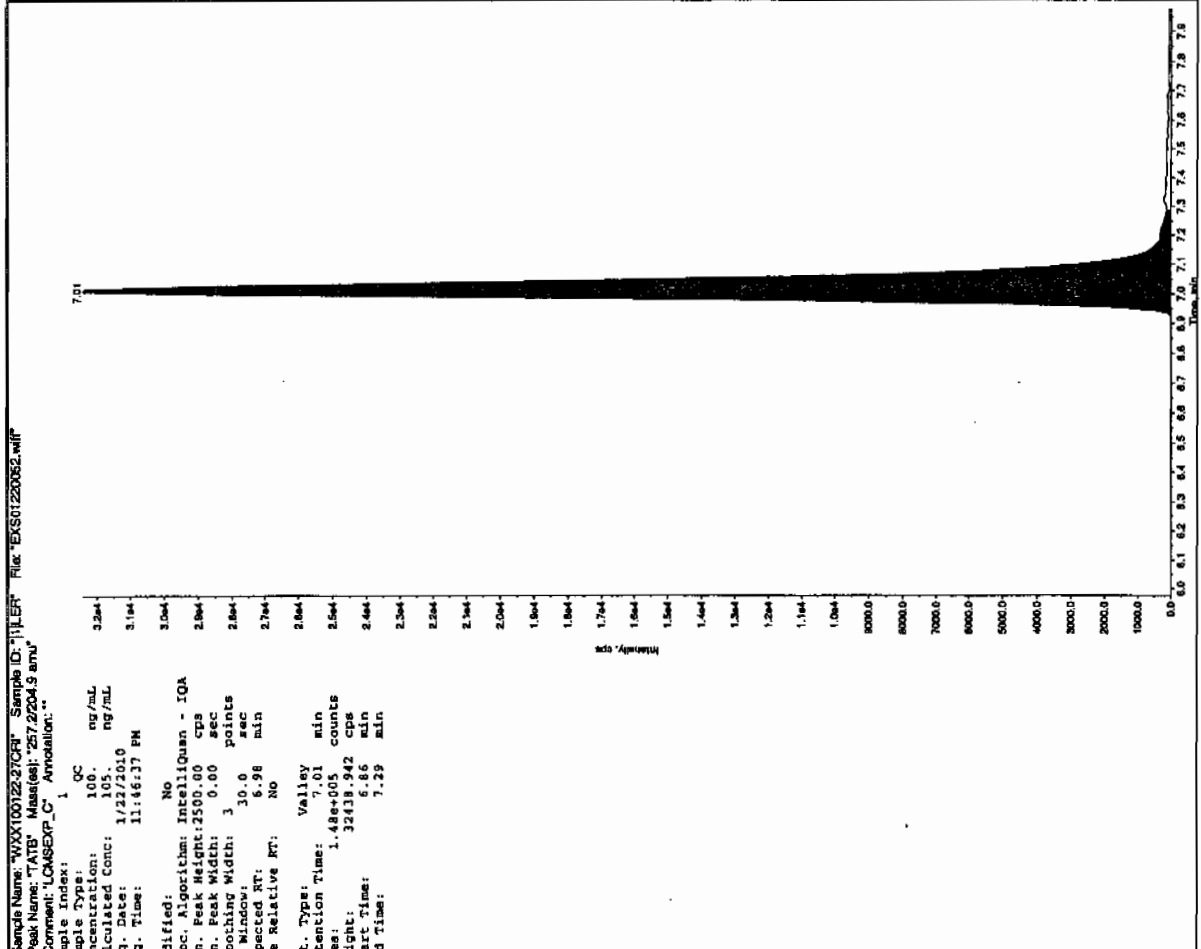
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Sen 1125110



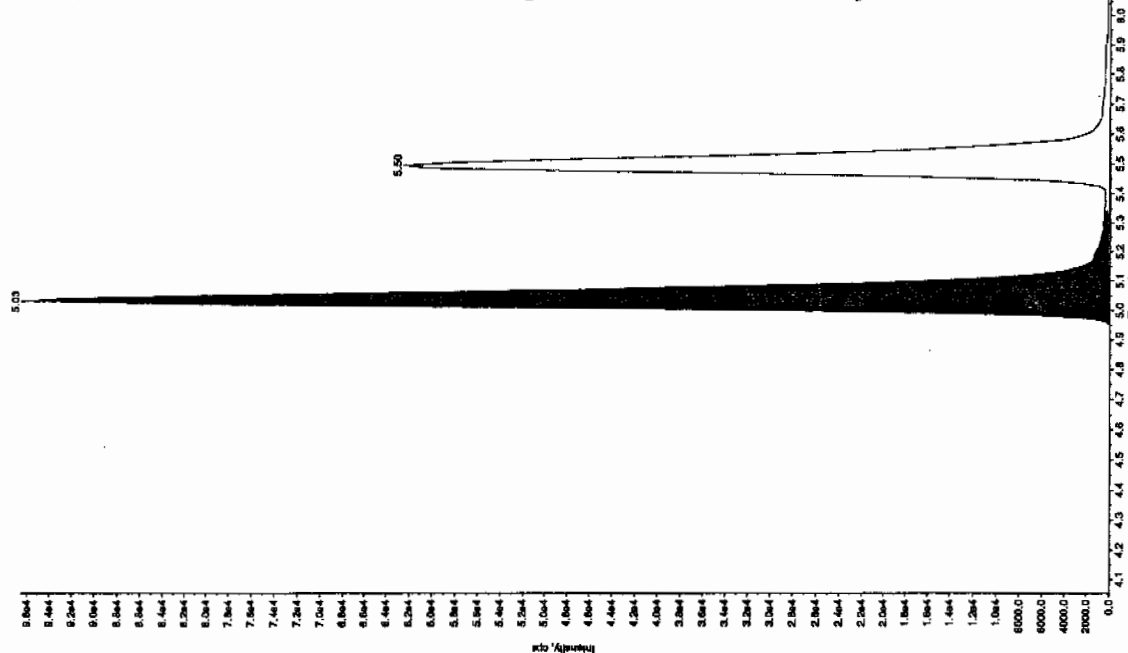
HW 01/25/10



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

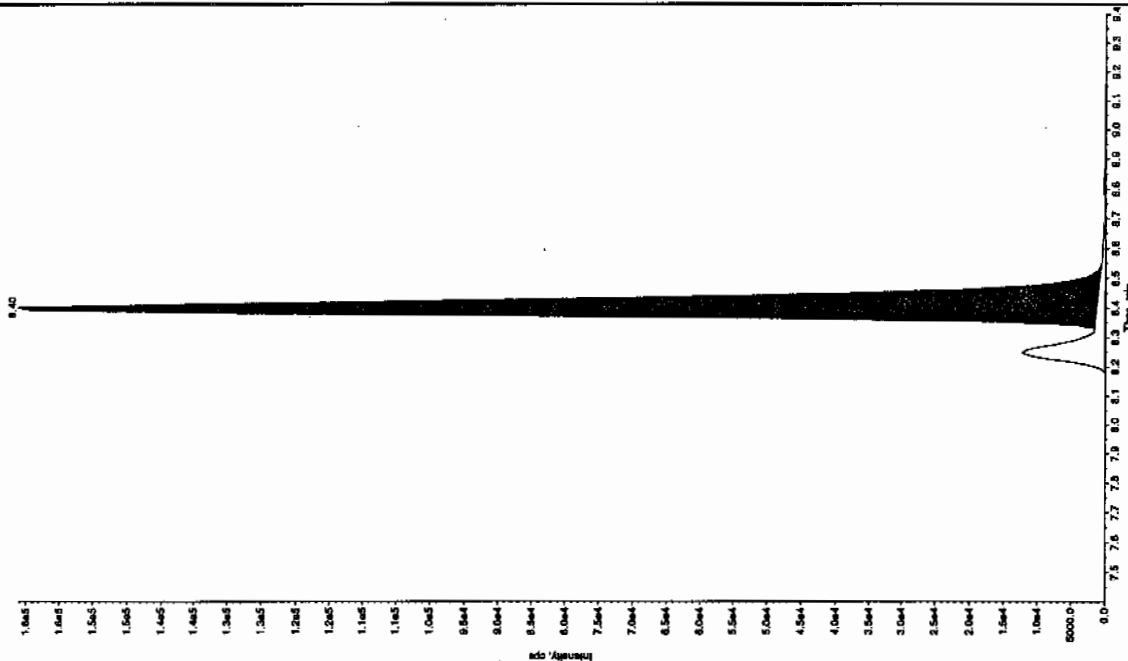
Sample Name: "WXX100122-27CR" Sample ID: "11LEF" File: "EX50122052.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

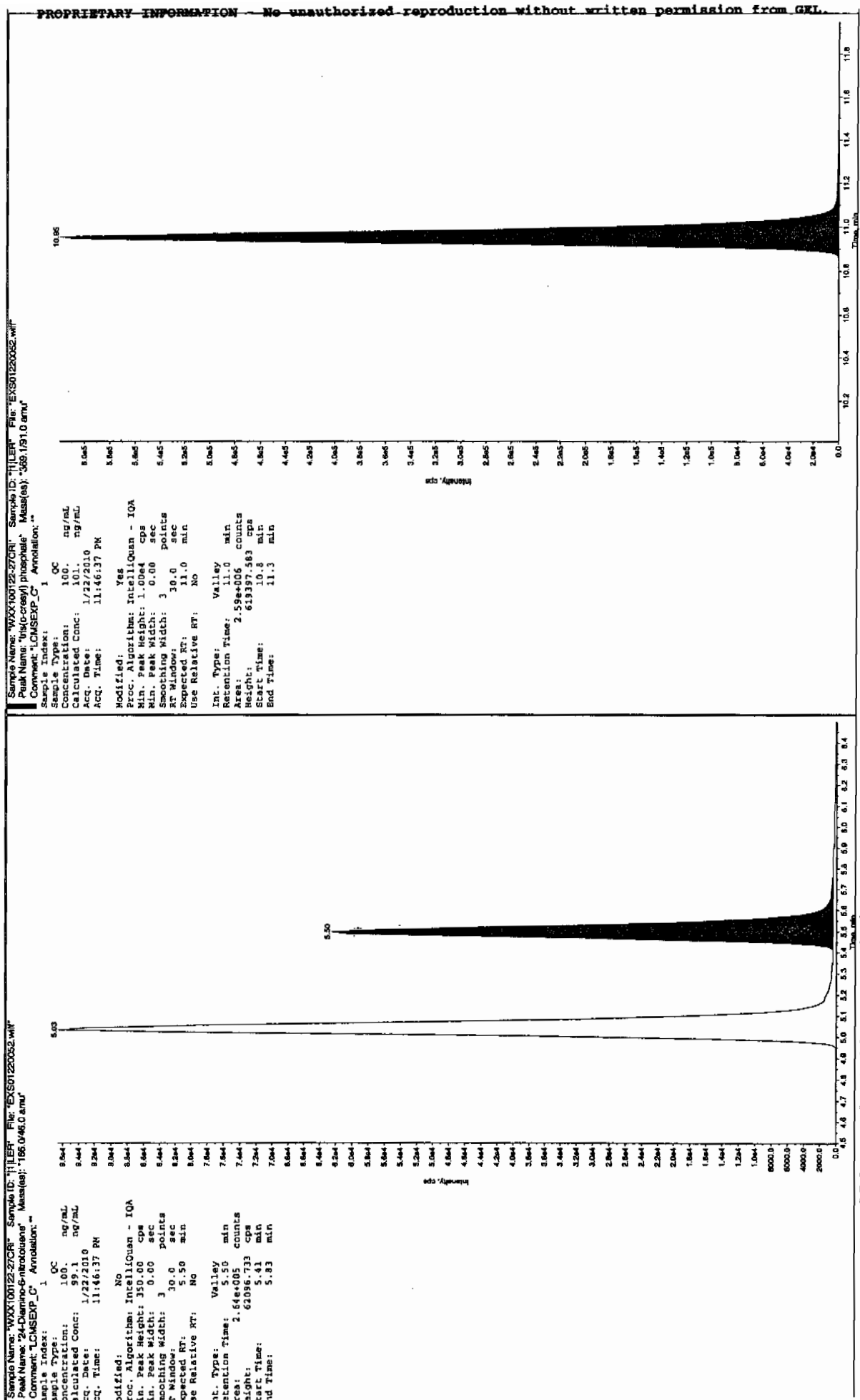
Sample Index: 1
 Sample Type: 100
 Concentration: 109 ng/mL
 Calculated Conc: 109 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 11:46:37 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.03 min
 Area: 4.31e+005 counts
 Height: 56524.887 cps
 Start Time: 4.91 min
 End Time: 5.34 min



Sample Name: "WXX100122-27CR" Sample ID: "11LEF" File: "EX50122052.wif"
 Peak Name: "34-Diamino-4-nitrofluorene" Mass(es): "162.1515.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 100
 Concentration: 50.0 ng/mL
 Calculated Conc: 50.0 ng/mL
 Acq. Date: 1/22/2010
 Acq. Time: 11:46:37 PM
 Modified: Yes
 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: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.40 min
 Area: 6.44e+005 counts
 Height: 159569.482 cps
 Start Time: 8.32 min
 End Time: 8.56 min





QUALITY CONTROL DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 940063

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011683

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125037a

Date Analyzed: 26-JAN-10 05:02

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\012510expa.mdb, Time: Mon Jan 25 16:14:14 2010
Calibration: C:\MASSLYNX\New_Exp.PRO\CurveDB\012510expa.cdb, Time: Tue Jan 26 09:24:52 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125037a

Date: 26-Jan-2010

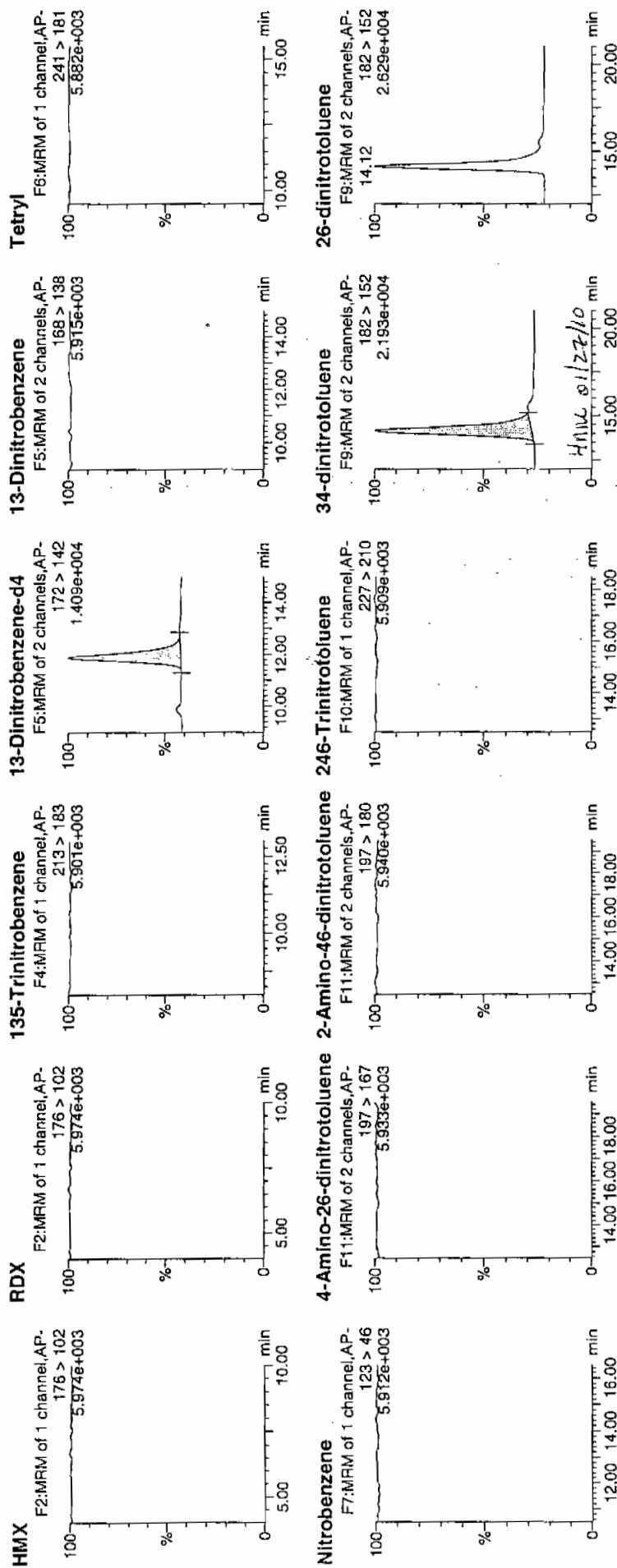
Time: 05:02:52

ID: 1202011683

Vial: 3:1,A

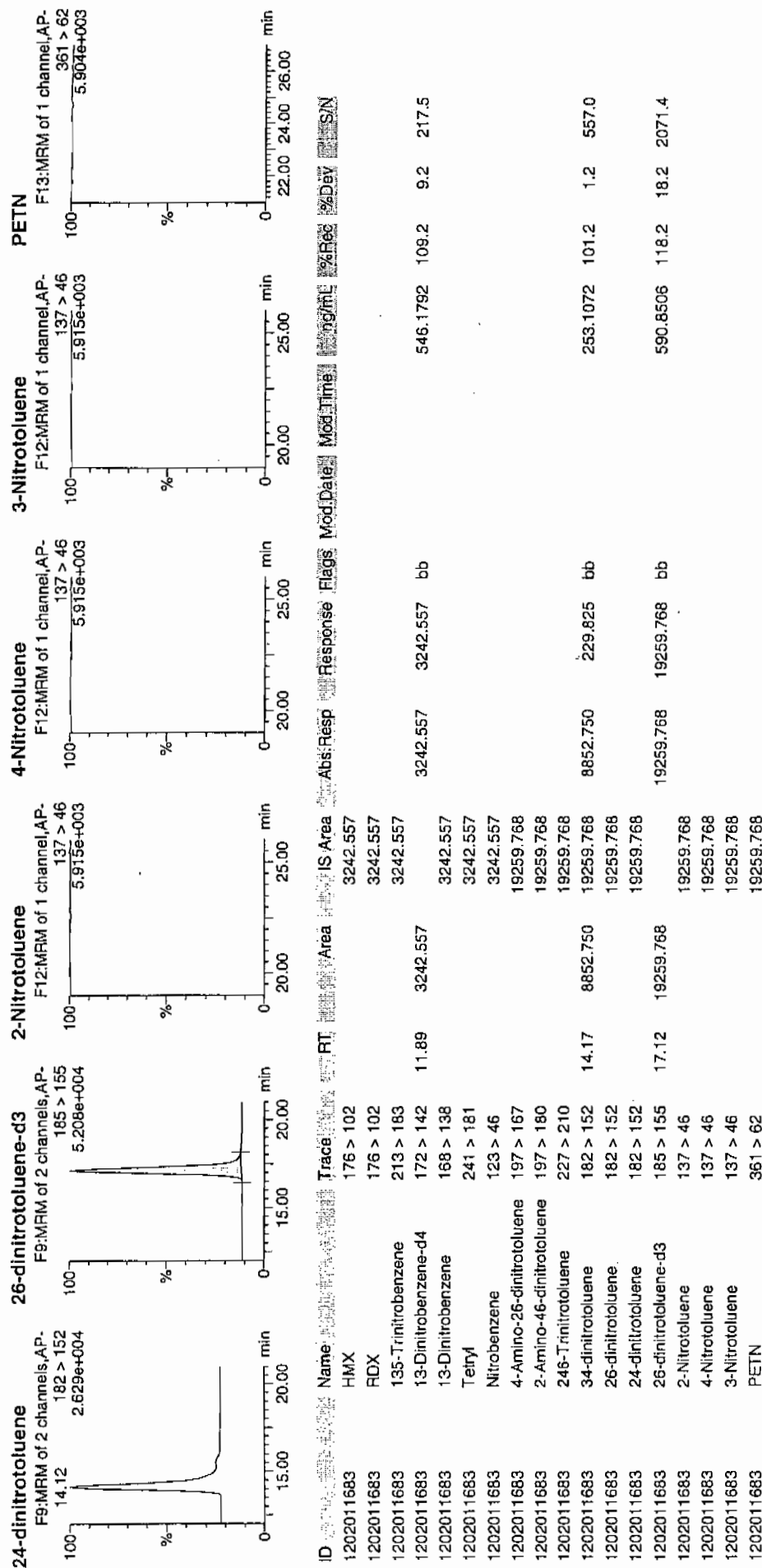
NOT
1/27/10

1940071 | 8032A | NB | 2.1



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

Dataset: C:\MASSLYNX\New_Exp\PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 940063

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011683

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220014.wiff

Date Analyzed: 22-JAN-10 13:49

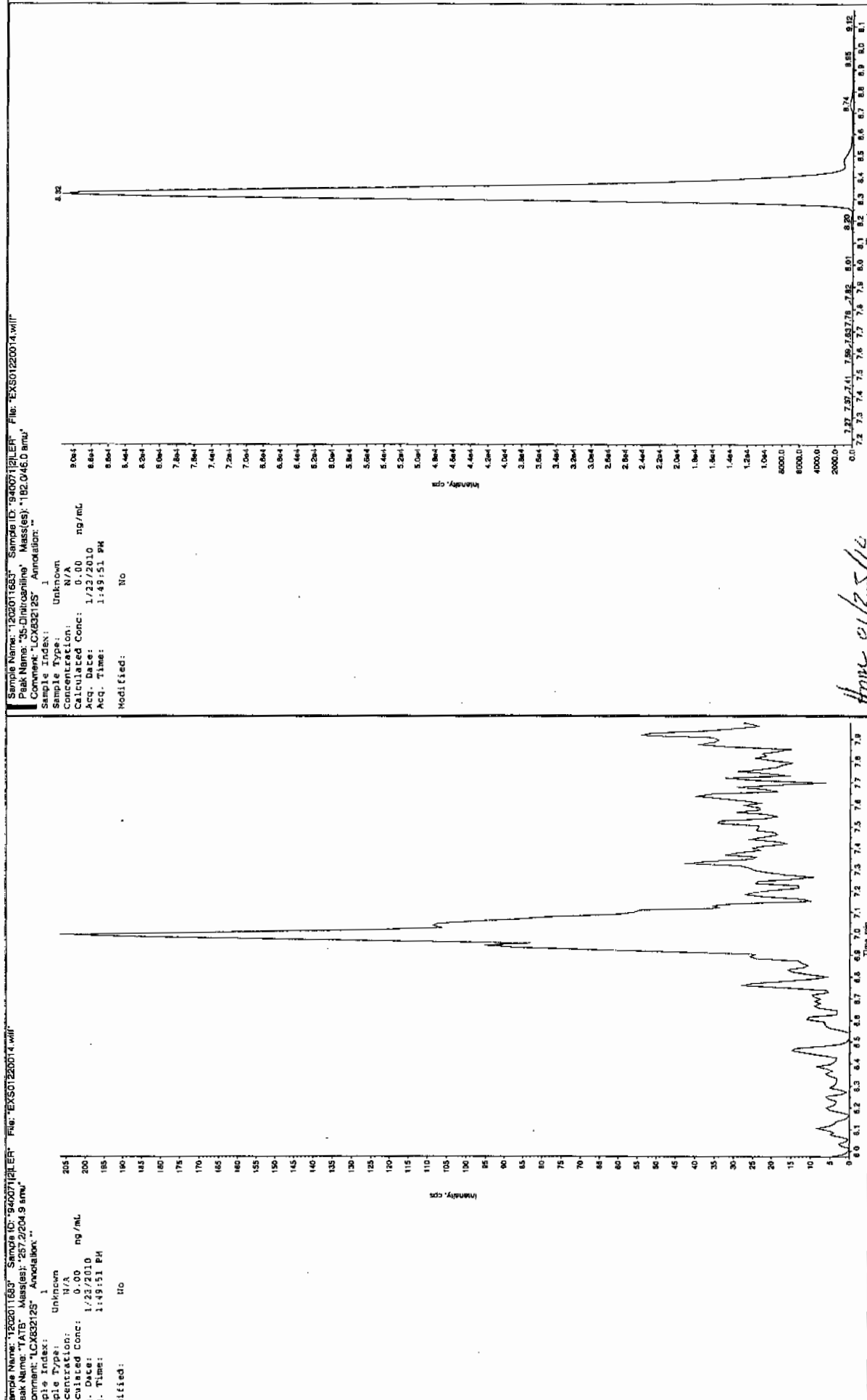
Units: ug/kg

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

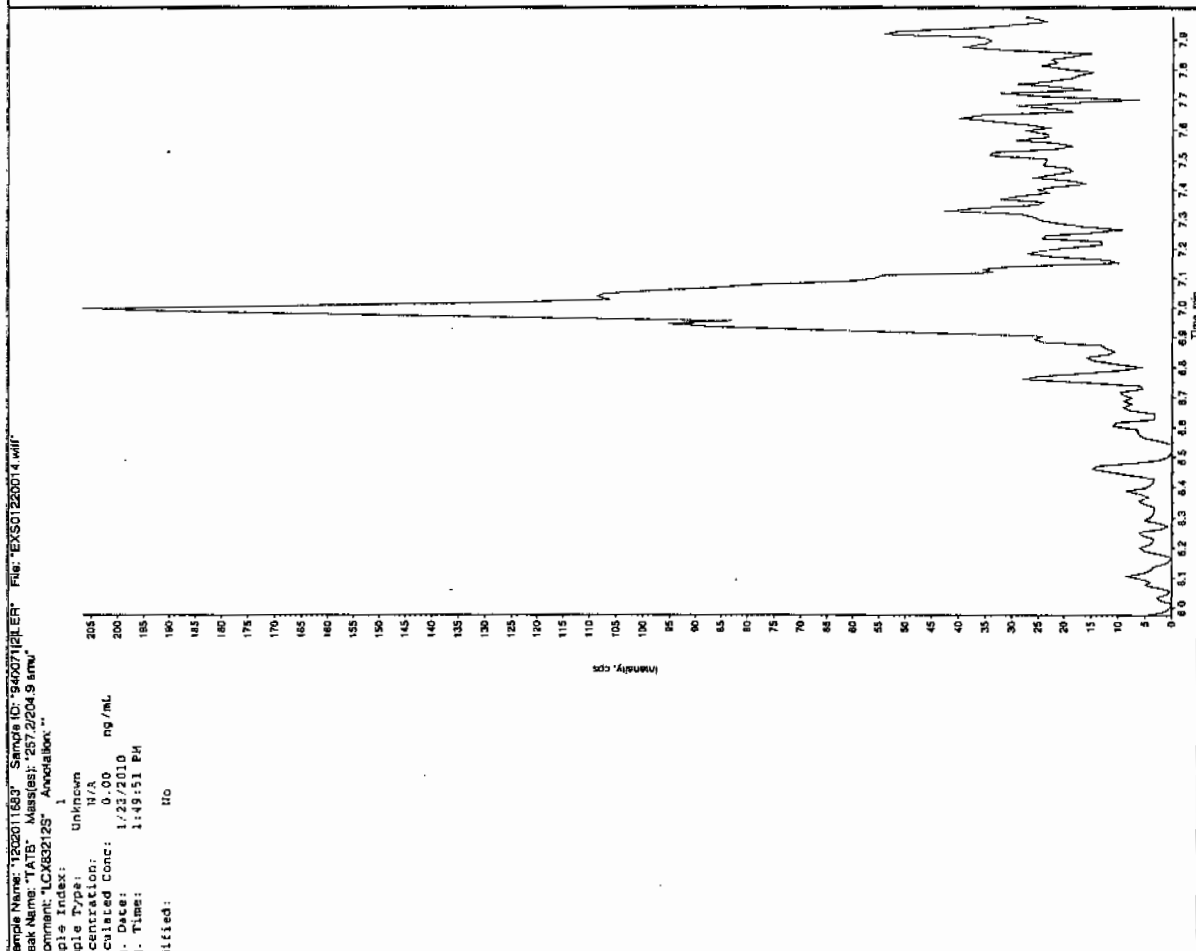
*Concentration =

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

See 1/25/10



Amc 01/25/10

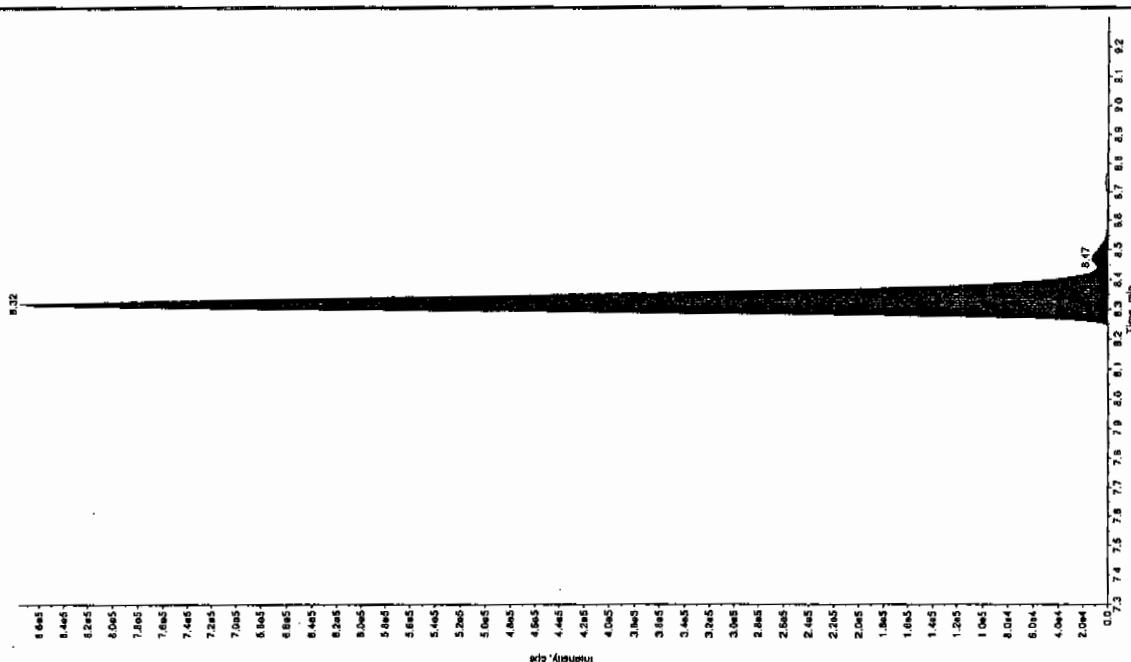


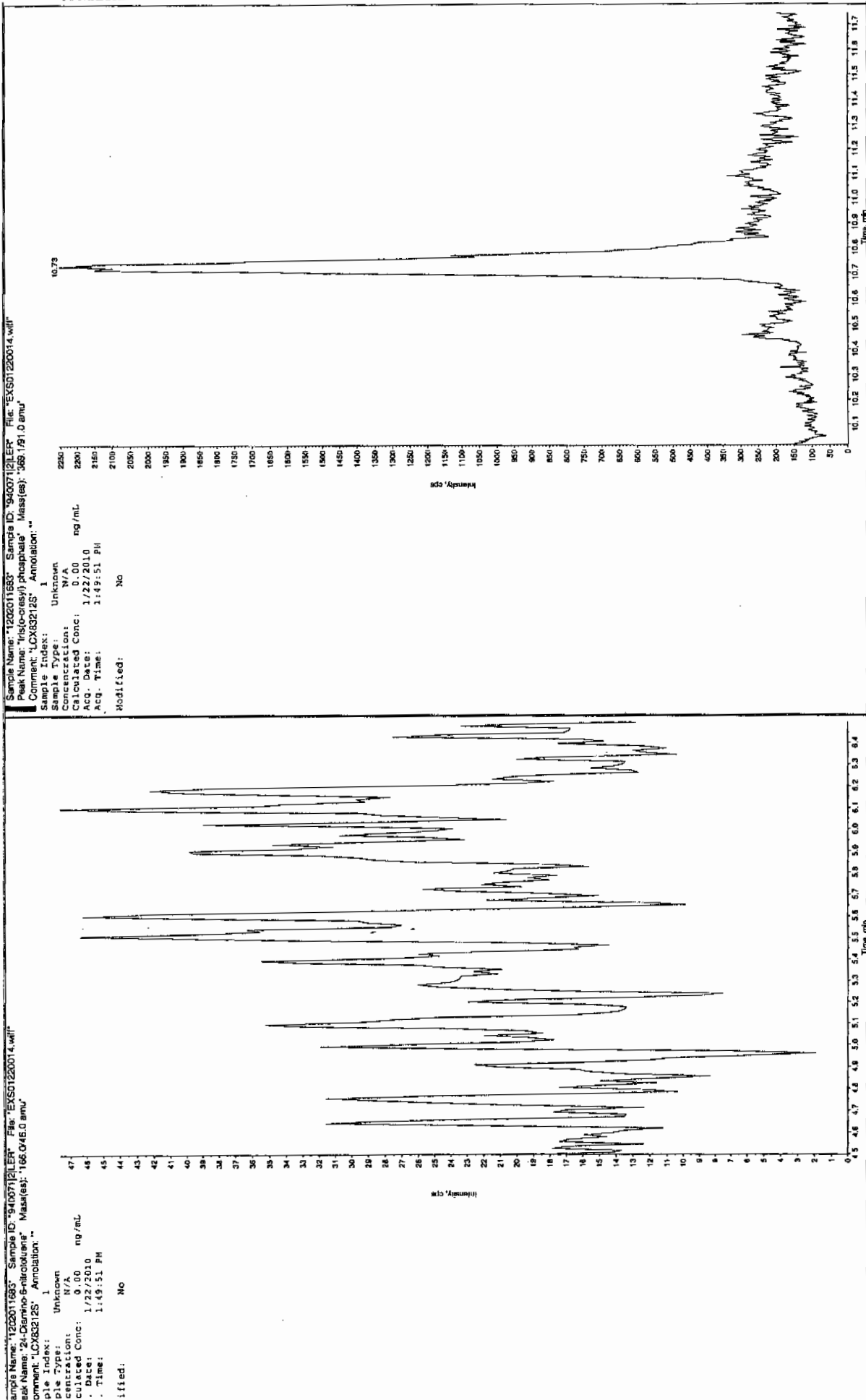
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Cultured Conc:	235.	ng/mL
1. Date:	1/22/2010	
1. Time:	1:49:51 PM	
ified:	NO	

Model:	Yes
OC algorithm:	IntelliQuan - IOA

1. Peak Height:	1660.00	cps	Valley
2. Peak Width:	3.00	sec	Retention Time:
3. Peak Width:	15.0	sec	3.58e+006
4. Peak Width:	3.30	min	Cps:
5. Peak Width:	No	min	877328.674
6. Peak Width:	No	min	RT Time:
7. Peak Width:	No	min	8.23
8. Peak Width:	No	min	6.65
9. Peak Width:	No	min	6.65





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: LCS for batch 940063

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011684

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125038a

Date Analyzed: 26-JAN-10 05:32

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5400	
121-14-2	2,4-Dinitrotoluene	4990	
121-82-4	RDX	5940	
19406-51-0	4-Amino-2,6-dinitrotoluene	5900	
2691-41-0	HMX	4940	
35572-78-2	2-Amino-4,6-dinitrotoluene	5510	
479-45-8	Tetryl	3180	
606-20-2	2,6-Dinitrotoluene	5030	
78-11-5	PETN	6040	
88-72-2	o-Nitrotoluene	4900	
98-95-3	Nitrobenzene	5030	
99-08-1	m-Nitrotoluene	4900	
99-35-4	1,3,5-Trinitrobenzene	4920	
99-65-0	m-Dinitrobenzene	5210	
99-99-0	p-Nitrotoluene	4940	

*Concentration =

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

Printed: Wed Jan 27 09:26:20 2010, Page 3 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125038a

Date: 26-Jan-2010

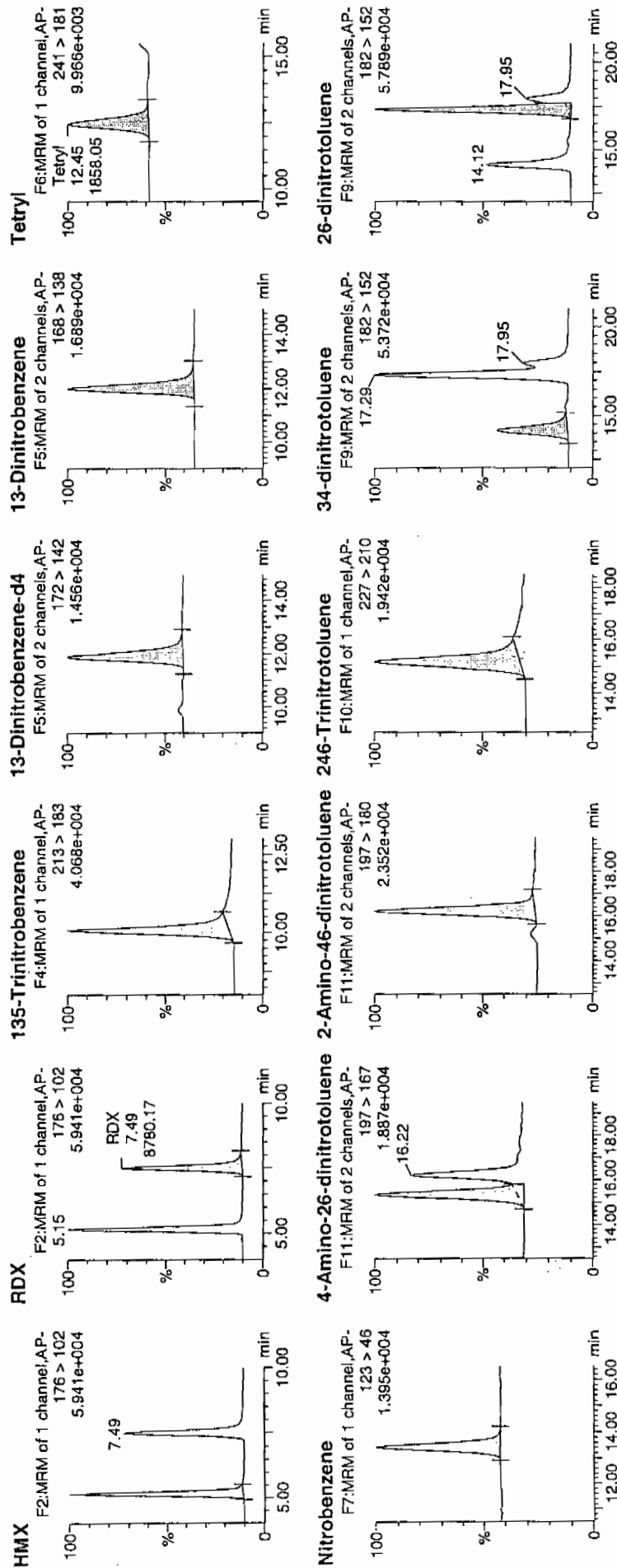
Time: 05:32:25

ID: 1202011684

Vial: 3:1,B

not
1/27/10

1202011684 / 940071 / 80225 / 128 / 21



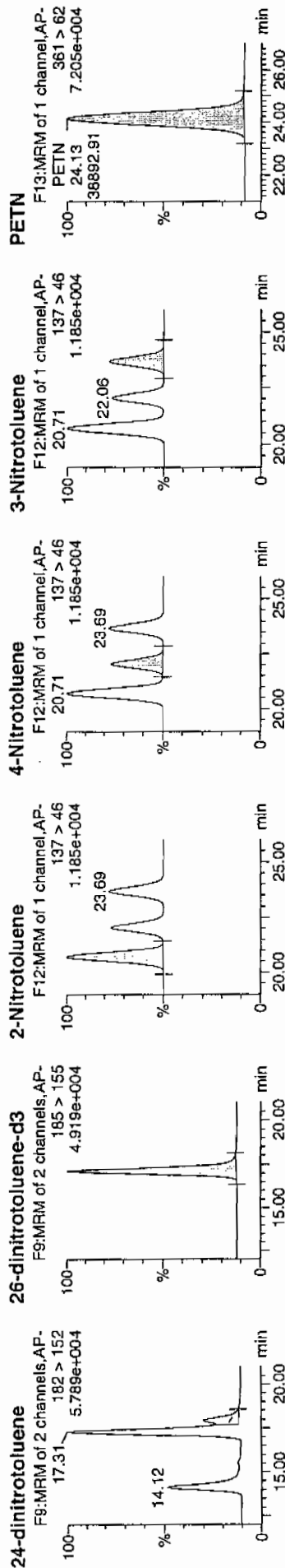
4mm 01/27/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Jan 27 09:26:20 2010, Page 4 of 97

Dataset: C:\MASSLYNX\New_Exp_PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



ID	Name	Trace	RT	Area	IS Area	Abs/Resp	Flags	Mod Date	Mod Time	Conc (mg/mL)	%Rec	%Dev	S/N
1202011684	HMX	176 > 102	5.15	10534.796	3363.475	10534.796	bb			493.6303	98.7	-1.3	1580.4
1202011684	RDX	176 > 102	7.49	8780.167	3363.475	8780.167	bb			593.6613	118.7	18.7	1095.9
1202011684	135-Trinitrobenzene	213 > 183	10.07	9502.684	3363.475	9502.684	bb			491.4998	98.3	-1.7	603.0
1202011684	13-Dinitrobenzene-d4	172 > 142	11.89	3363.475		3363.475	bb			566.5468	113.3	13.3	433.9
1202011684	13-Dinitrobenzene	168 > 138	12.00	4066.768		4066.768	bb			521.1704	104.2	4.2	641.8
1202011684	Tetryl	241 > 181	12.45	1858.045		1858.045	bb			317.9888	63.6	-36.4	209.9
1202011684	Nitrobenzene	123 > 46	13.41	2891.242		2891.242	bb			502.9284	100.6	0.6	344.1
1202011684	4-Amino-26-dinitrotoluene	197 > 167	15.35	5562.984	18100.451	5562.984	MM	27-Jan-10	09:11:45	589.8723	118.0	18.0	205.4
1202011684	2-Amino-46-dinitrotoluene	197 > 180	16.22	7471.171	18100.451	7471.171	bb			551.4005	110.3	10.3	440.6
1202011684	246-Trinitrotoluene	227 > 210	15.17	6214.850	18100.451	6214.850	bb			539.7552	108.0	8.0	390.2
1202011684	34-dinitrotoluene	182 > 152	14.17	9373.252	18100.451	9373.252	bb			285.1532	114.1	14.1	456.4
1202011684	26-dinitrotoluene	182 > 152	17.31	20070.611	18100.451	20070.611	MM	27-Jan-10	09:14:49	503.3140	100.7	0.7	908.7
1202011684	24-dinitrotoluene	182 > 152	17.95	4587.413	18100.451	4587.413	MM	27-Jan-10	09:20:11	498.7782	99.8	-0.2	189.8
1202011684	26-dinitrotoluene-d3	185 > 155	17.14	18100.451		18100.451	bb			555.2851	111.1	11.1	2267.3
1202011684	2-Nitrotoluene	137 > 46	20.71	2948.904	18100.451	2948.904	bb			489.8254	98.0	-2.0	272.4
1202011684	4-Nitrotoluene	137 > 46	22.06	1478.926	18100.451	1478.926	bb			494.1144	98.8	-1.2	143.8
1202011684	3-Nitrotoluene	137 > 46	23.69	1656.441	18100.451	1656.441	bb			490.1136	98.0	-2.0	151.7
1202011684	PETN	361 > 62	24.13	38892.906	18100.451	38892.906	bb			604.0708	120.8	20.8	6877.7

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 940063

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011684

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220015.wiff

Date Analyzed: 22-JAN-10 14:05

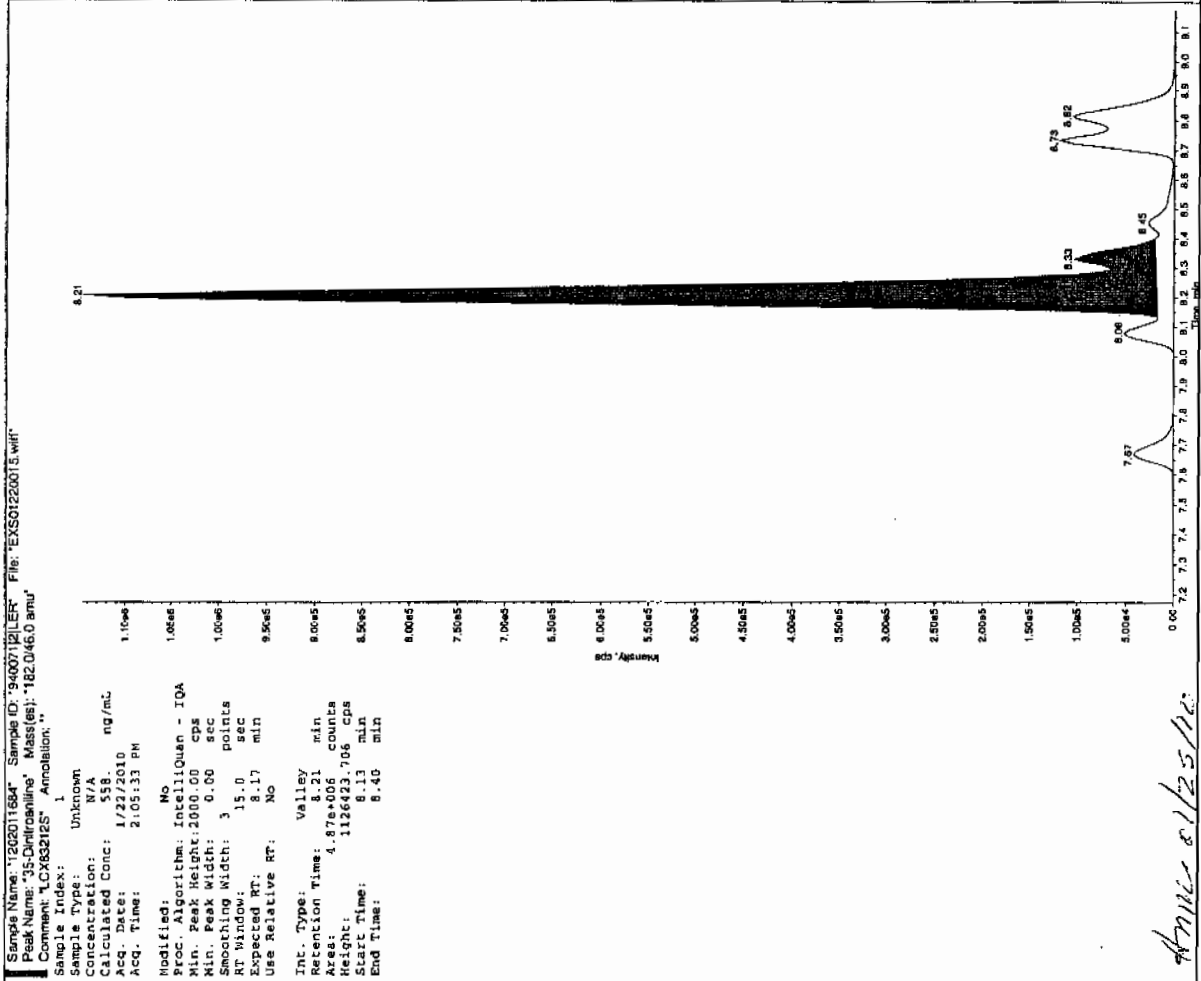
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4960	
59229-75-3	2,6-Diamino-4-nitrotoluene	5100	
618-87-1	3,5-Dinitroaniline	5380	
6629-29-4	2,4-Diamino-6-nitrotoluene	4680	
78-30-8	tris(o-cresyl) phosphate	5030	

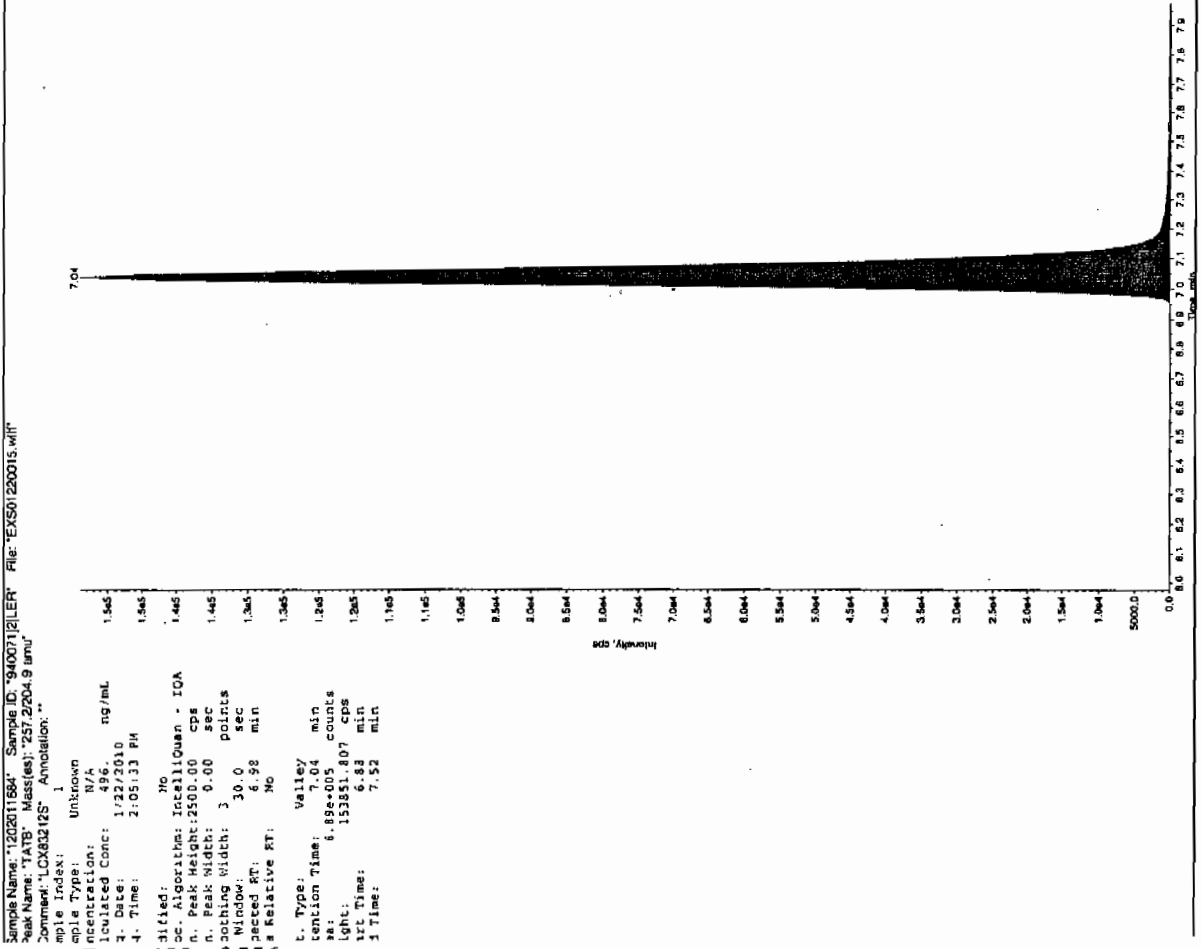
*Concentration =

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

Before 1/25/10

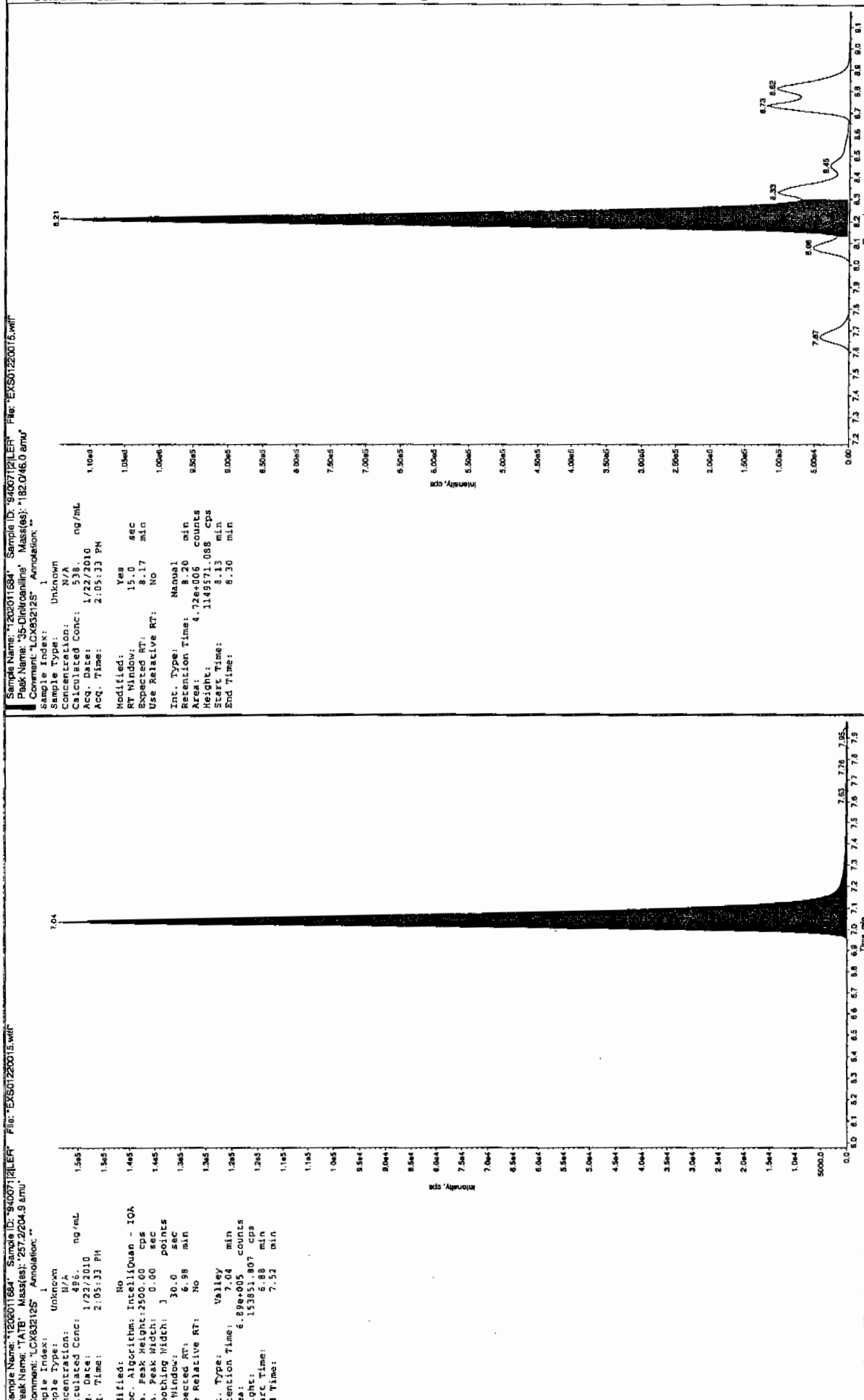


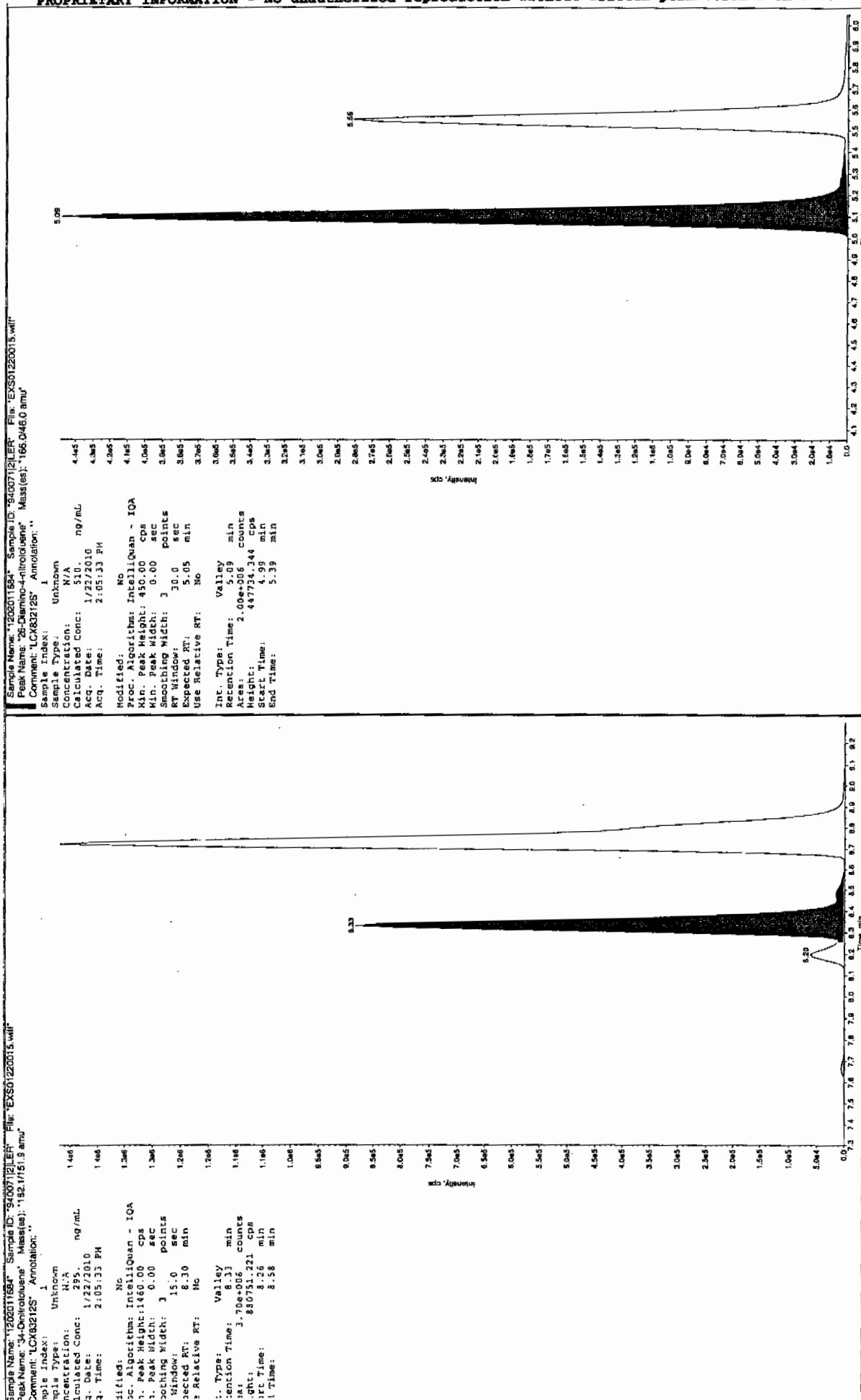
After 1/25/10



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

after scan 1125110

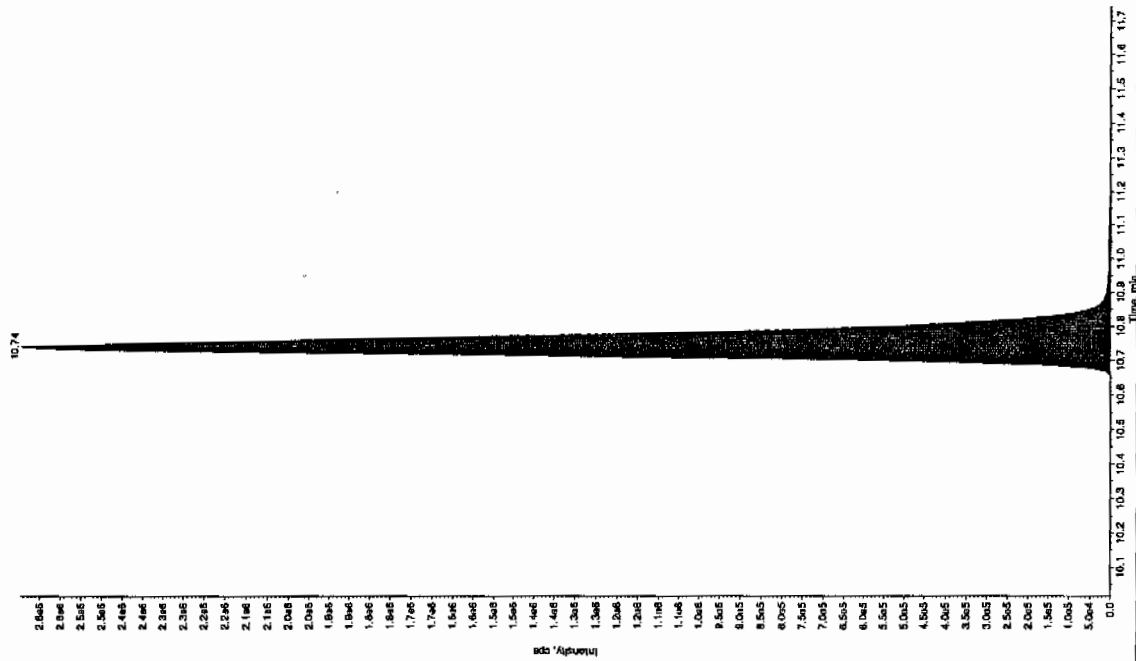




3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

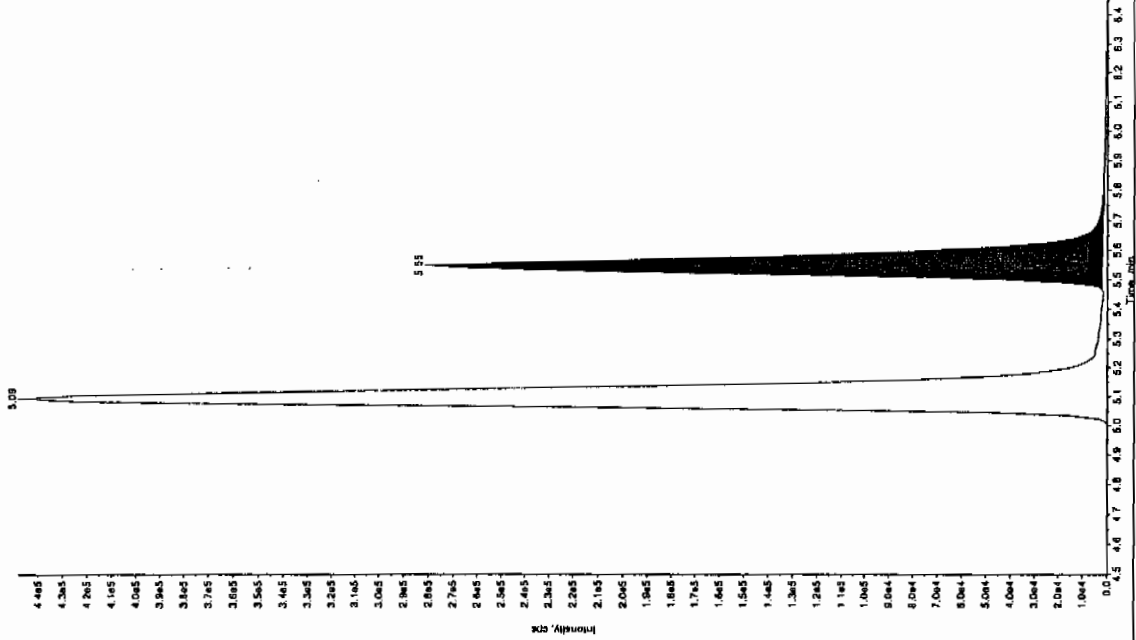
Sample Name: "1202011624" Sample ID: "94007121LRF" File: "EXS01220015.wif"
 Peak Name: "1,6-bis(4-chlorophenyl) phosphine" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Amulation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 503 ng/mL
 Acq. Date: 1/23/2010
 Acq. Time: 2:05:13 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.7 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 1.15e+007 counts
 Height: 2846127.197 cps
 Start Time: 10.6 min
 End Time: 11.0 min



Sample Name: "1202011624" Sample ID: "94007121LRF" File: "EXS01220015.wif"
 Peak Name: "24-Diamino-6-ethylidene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Amulation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 488 ng/mL
 Acq. Date: 1/23/2010
 Acq. Time: 2:05:13 PM
 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: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.55 min
 Area: 1.20e+006 counts
 Height: 27935.906 cps
 Start Time: 5.41 min
 End Time: 5.93 min



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634(244126001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011685

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125040a

Date Analyzed: 26-JAN-10 06:31

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5580	
121-14-2	2,4-Dinitrotoluene	5240	
121-82-4	RDX	5540	
19406-51-0	4-Amino-2,6-dinitrotoluene	5690	
2691-41-0	HMX	5490	
35572-78-2	2-Amino-4,6-dinitrotoluene	5550	
479-45-8	Tetryl	3840	
606-20-2	2,6-Dinitrotoluene	5010	
78-11-5	PETN	5510	
88-72-2	o-Nitrotoluene	4640	
98-95-3	Nitrobenzene	5070	
99-08-1	m-Nitrotoluene	5060	
99-35-4	1,3,5-Trinitrobenzene	5290	
99-65-0	m-Dinitrobenzene	5200	
99-99-0	p-Nitrotoluene	4980	

*Concentration =

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

Printed: Wed Jan 27 09:26:20 2010, Page 7 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125040a

Date: 26-Jan-2010

Time: 06:31:37

ID: 1202011685

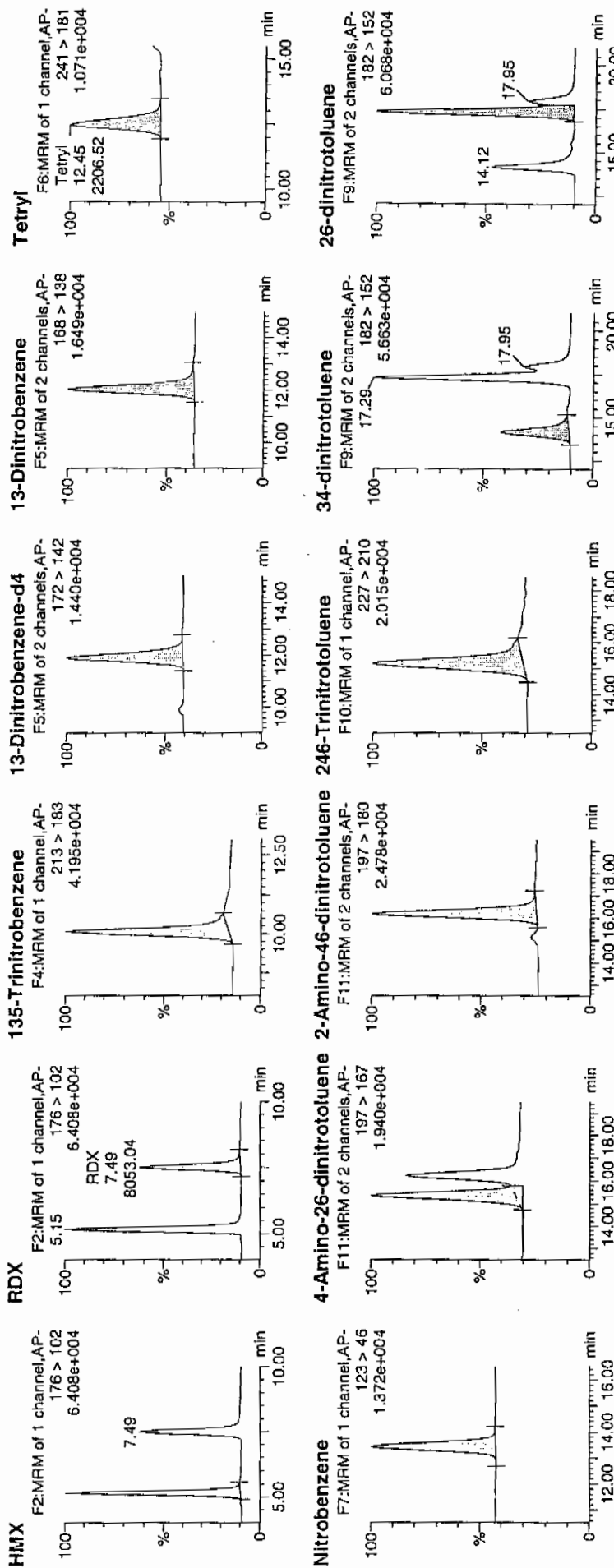
Vial: 3:1,D

16717
1/27/10

244126001MS / 21

LANU / 740071 / 8023

Page 407 of 556



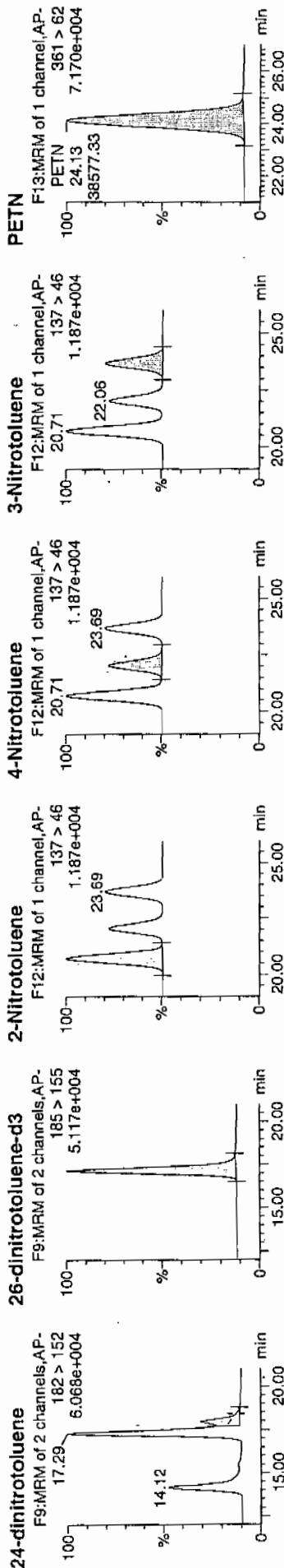
4mm 01/27/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Jan 27 09:26:20 2010, Page 8 of 97

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	% Rec	% Dev	S/N
1202011685	HMx	176 > 102	5.15	11511.030	3306.375	11511.030	1740.733	bb			548.6887	109.7	9.7	1936.0
1202011685	RDX	176 > 102	7.49	8053.037	3306.375	8053.037	1217.805	bb			553.9005	110.8	10.8	1130.0
1202011685	135-Trinitrobenzene	213 > 183	10.07	10036.771	3306.375	10036.771	1517.791	bb			528.8317	105.8	5.8	603.5
1202011685	13-Dinitrobenzene-d4	172 > 142	11.89	3306.375	3306.375	3306.375	3306.375	bb			556.9288	111.4	11.4	159.1
1202011685	13-Dinitrobenzene	168 > 138	12.00	3988.777	3306.375	3988.777	603.195	bb			520.0034	104.0	4.0	467.1
1202011685	Tetryl	241 > 181	12.45	2206.522	3306.375	2206.522	333.677	bb			384.1492	76.8	-23.2	553.0
1202011685	Nitrobenzene	123 > 46	13.41	2867.420	3306.375	2867.420	433.620	bb			507.3984	101.5	1.5	330.5
1202011685	4-Amino-26-dinitrotoluene	197 > 167	15.35	5729.754	19310.813	5729.754	148.356	MM	27-Jan-10	09:11:53	569.4755	113.9	13.9	238.4
1202011685	2-Amino-46-dinitrotoluene	197 > 180	16.22	8021.807	19310.813	8021.807	207.702	bb			554.9317	111.0	11.0	392.4
1202011685	246-Trinitrotoluene	227 > 210	15.17	6849.979	19310.813	6849.979	177.361	bb			557.6276	111.5	11.5	119.9
1202011685	34-dinitrotoluene	182 > 152	14.17	9597.981	19310.813	9597.981	248.513	bb			273.6886	109.5	9.5	183.5
1202011685	26-dinitrotoluene	182 > 152	17.29	21295.014	19310.813	21295.014	551.375	MM	27-Jan-10	09:15:00	500.5474	100.1	0.1	418.7
1202011685	24-dinitrotoluene	182 > 152	17.95	5137.197	19310.813	5137.197	133.013	MM	27-Jan-10	09:20:01	523.5458	104.7	4.7	94.0
1202011685	26-dinitrotoluene-d3	185 > 155	17.14	19310.813	19310.813	19310.813	19310.813	bb			592.4166	118.5	18.5	1893.0
1202011685	2-Nitrotoluene	137 > 46	20.71	2981.828	19310.813	2981.828	77.206	bb			464.2502	92.9	-7.1	409.6
1202011685	4-Nitrotoluene	137 > 46	22.06	1590.747	19310.813	1590.747	41.188	bb			498.1625	99.6	-0.4	227.9
1202011685	3-Nitrotoluene	137 > 46	23.69	1825.022	19310.813	1825.022	47.254	bb			506.1482	101.2	1.2	245.2
1202011685	PETN	361 > 62	24.13	38577.328	19310.813	38577.328	998.853	bb			551.1315	110.2	10.2	4584.4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634(244126001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011685

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220017.wiff

Date Analyzed: 22-JAN-10 14:36

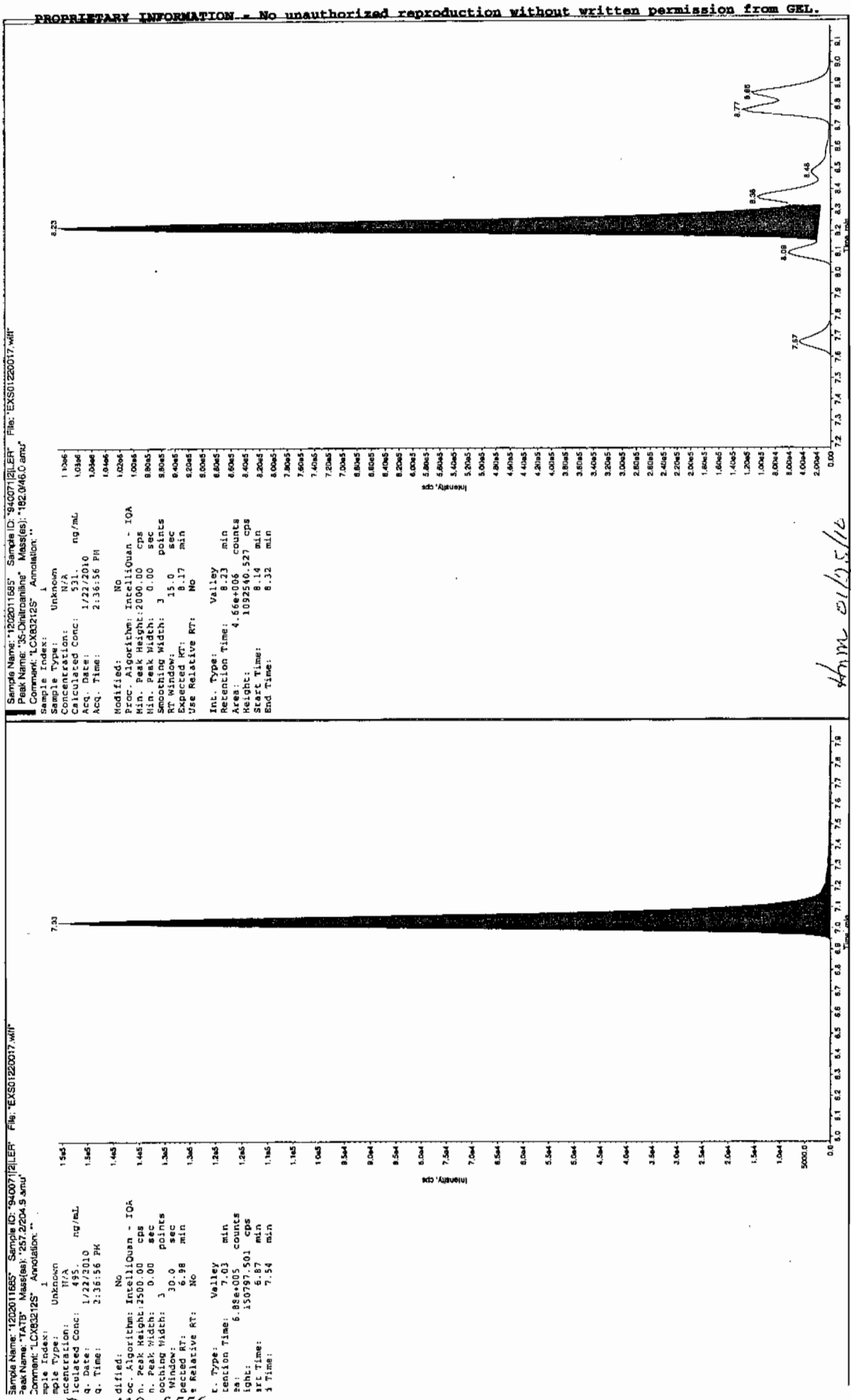
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4950	
59229-75-3	2,6-Diamino-4-nitrotoluene	4580	
618-87-1	3,5-Dinitroaniline	5460	
6629-29-4	2,4-Diamino-6-nitrotoluene	4220	
78-30-8	tris(o-cresyl) phosphate	4940	

*Concentration =

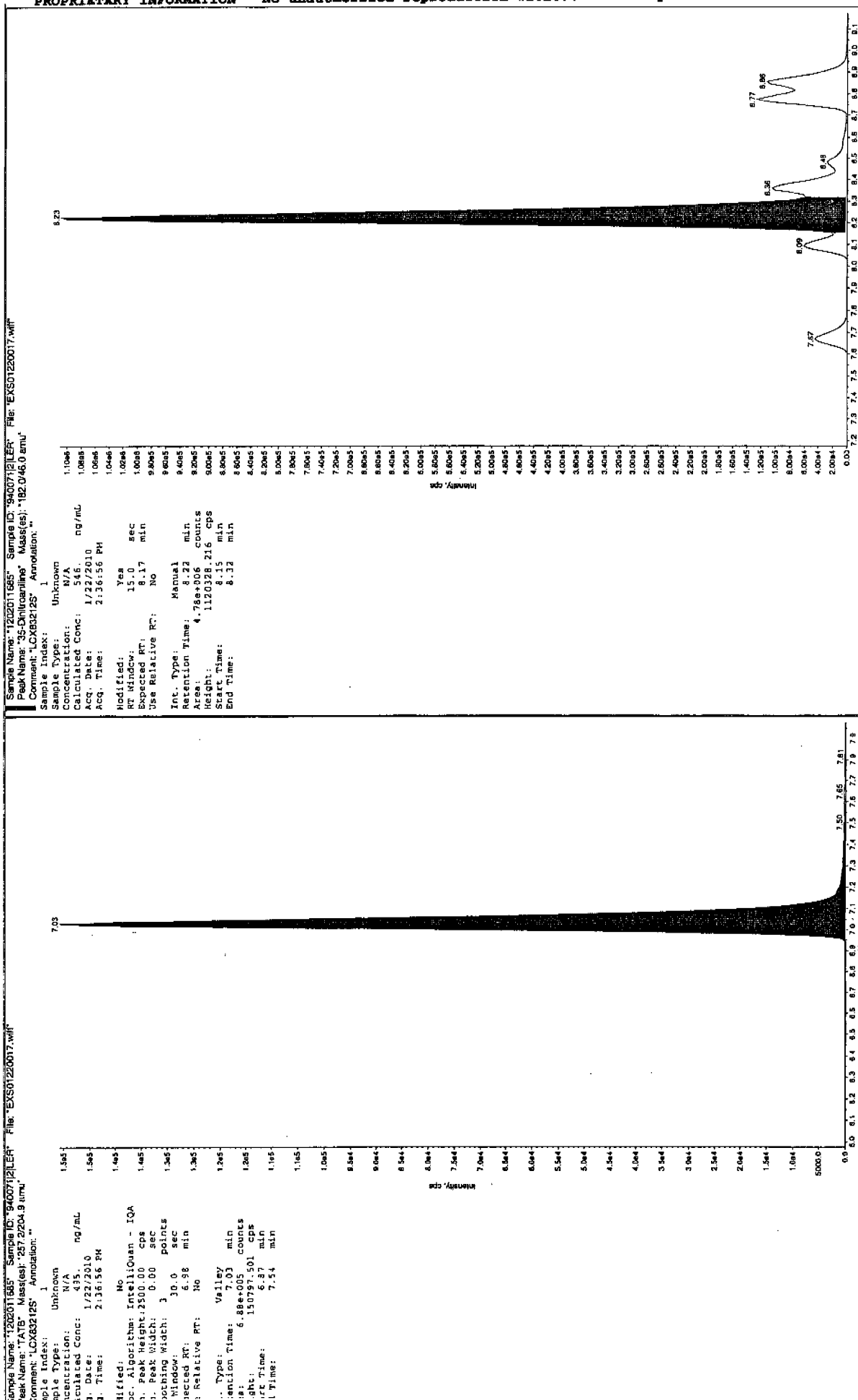
Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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Before Scan 1125710

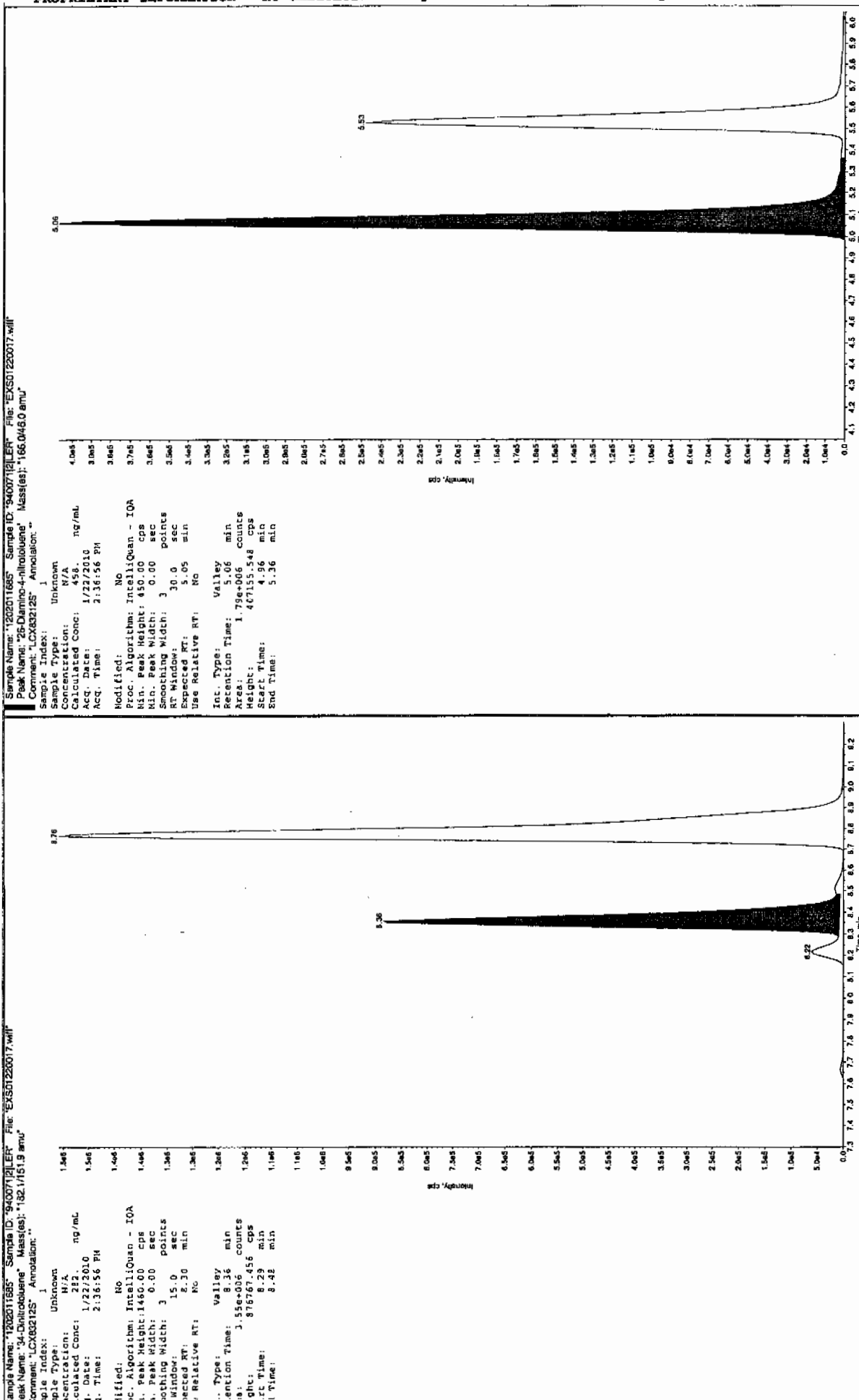


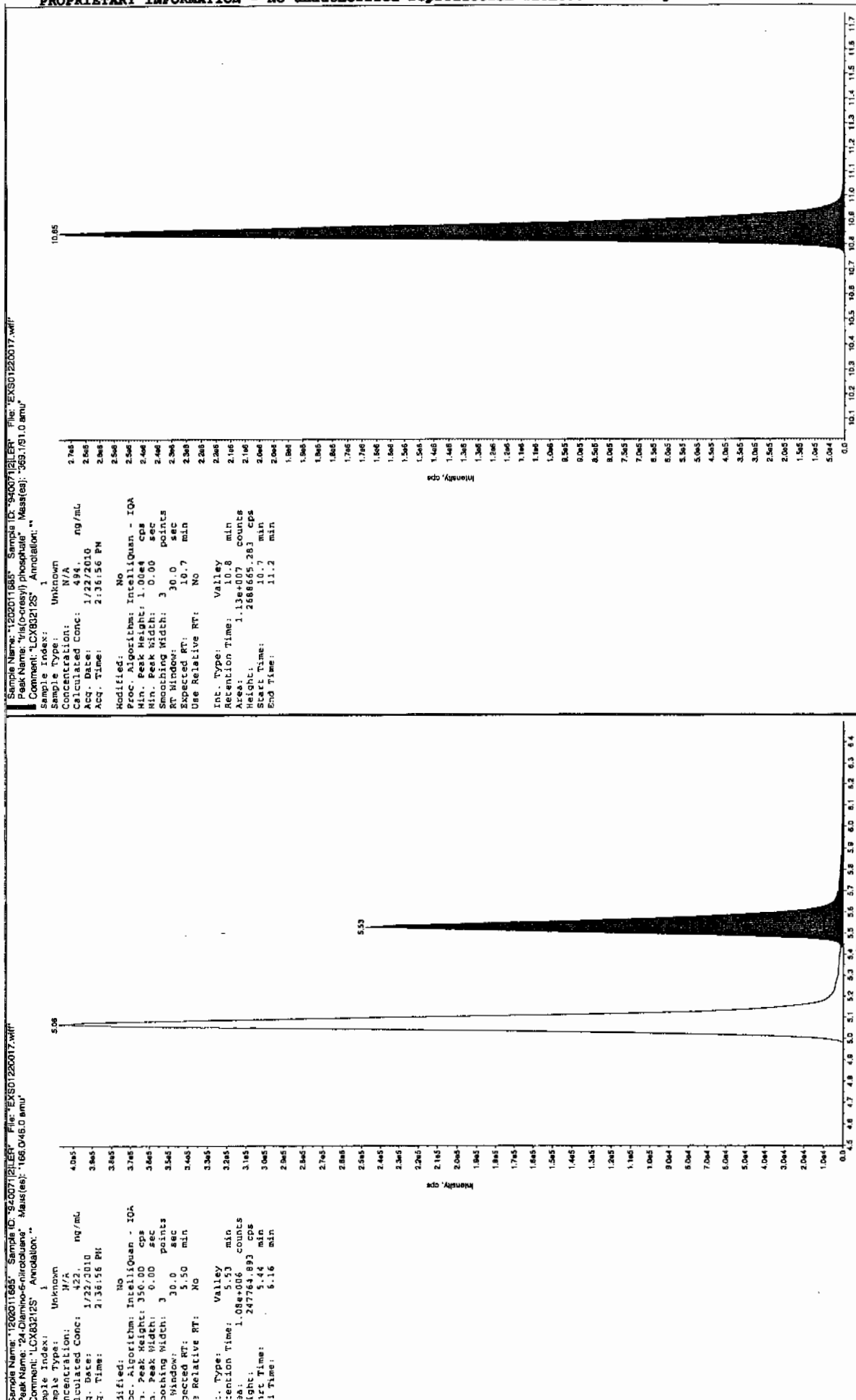
Am 01/25/10

after Jan 1125710



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: RE12-10-7634(244126001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011686

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08--JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0125041a

Date Analyzed: 26-JAN-10 07:01

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5080	
121-14-2	2,4-Dinitrotoluene	5360	
121-82-4	RDX	5460	
19406-51-0	4-Amino-2,6-dinitrotoluene	5350	
2691-41-0	HMX	5480	
35572-78-2	2-Amino-4,6-dinitrotoluene	5190	
479-45-8	Tetryl	3870	
606-20-2	2,6-Dinitrotoluene	4940	
78-11-5	PETN	4990	
88-72-2	o-Nitrotoluene	4600	
98-95-3	Nitrobenzene	4790	
99-08-1	m-Nitrotoluene	4560	
99-35-4	1,3,5-Trinitrobenzene	5320	
99-65-0	m-Dinitrobenzene	5080	
99-99-0	p-Nitrotoluene	4740	

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0125041a

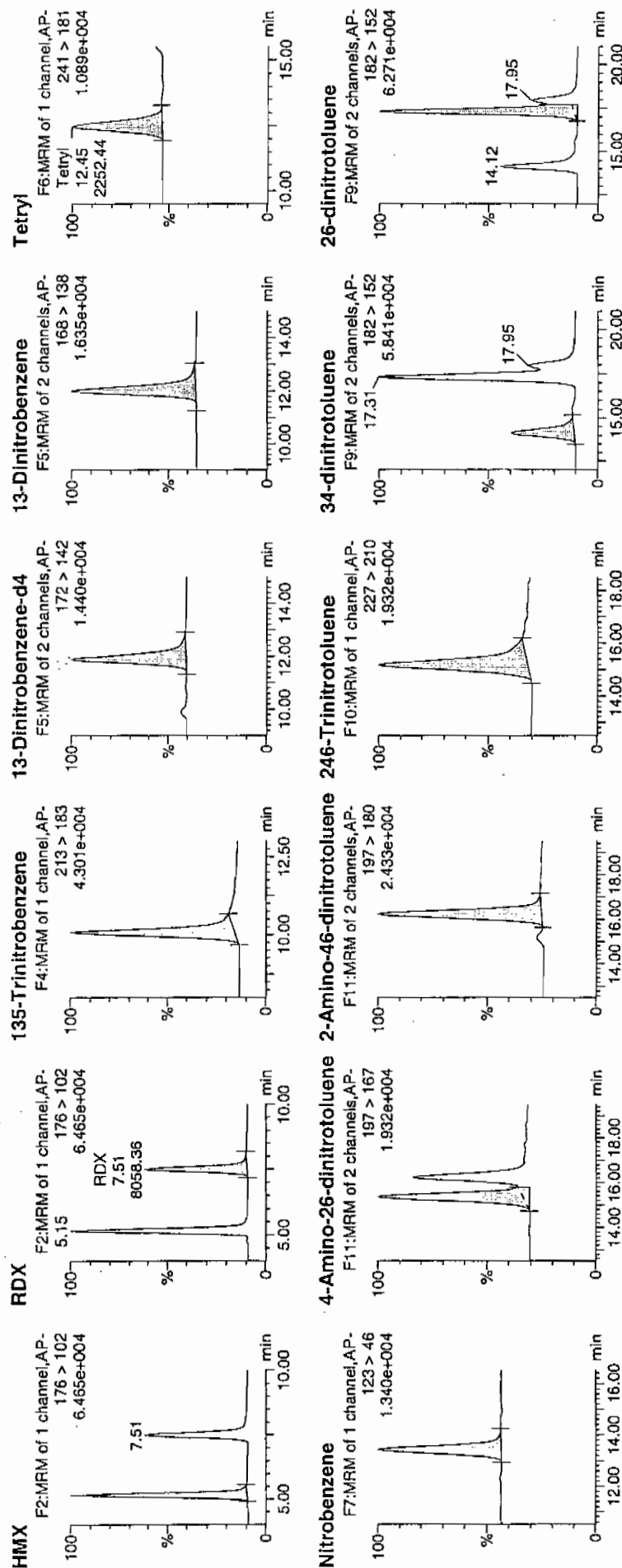
Date: 26-Jan-2010

Time: 07:01:05

ID: 1202011686

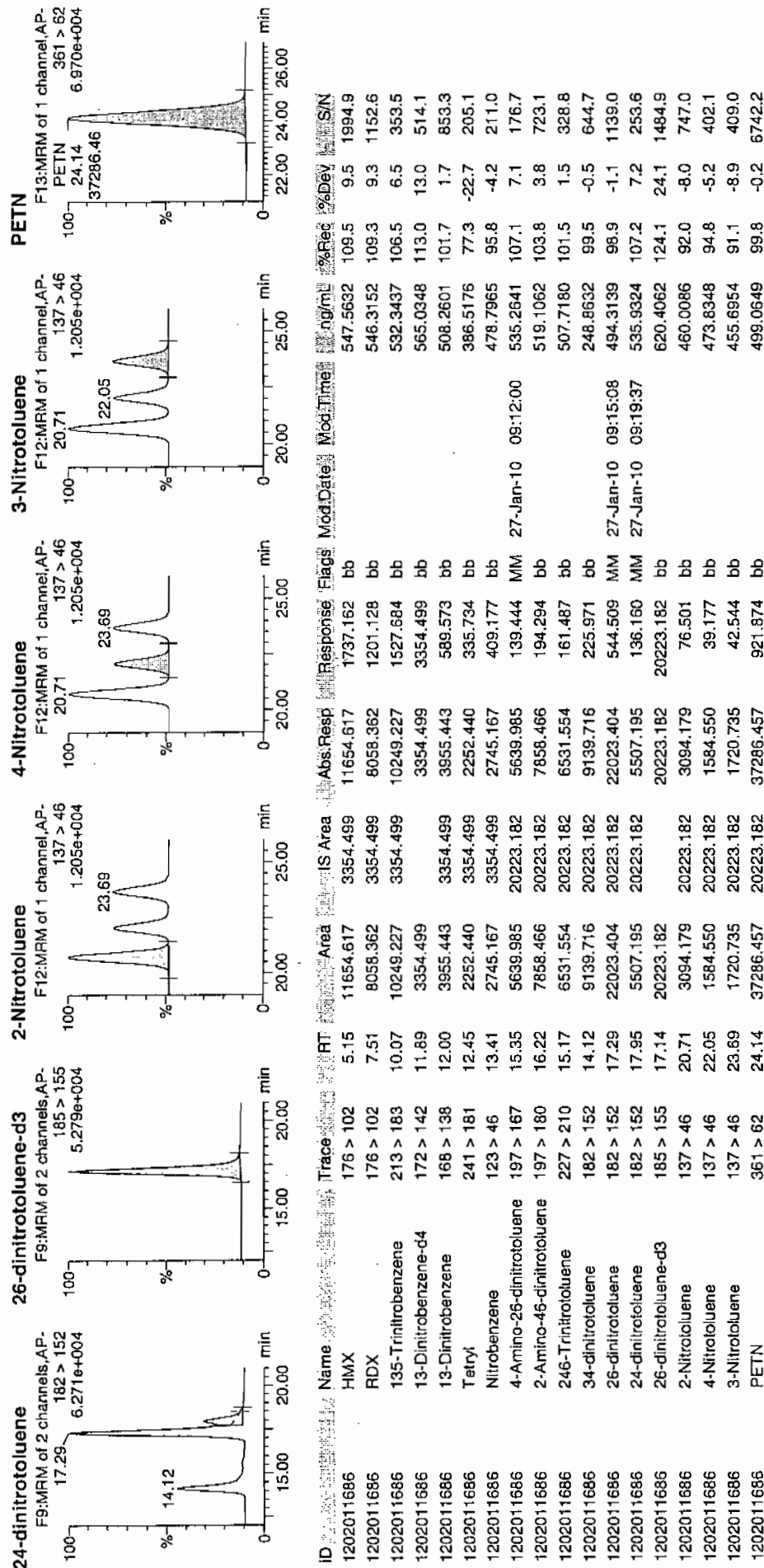
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Handwritten: 12/27/10, 244126001 MS, 21



Handwritten: 244126001 MS

Dataset: C:\MASSLYNX\New_Exp.PRO\012510expA1.qld, Time: Wed Jan 27 09:20:42 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7634(244126001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1131

Matrix: SOIL

GEL Sample ID: 1202011686

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 08-JAN-10

Extraction Type Sonication

Extraction Batch ID: 940063

Concentrated Extract Volume (mL) 10

Date Extracted: 19-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01220018.wiff

Date Analyzed: 22-JAN-10 14:52

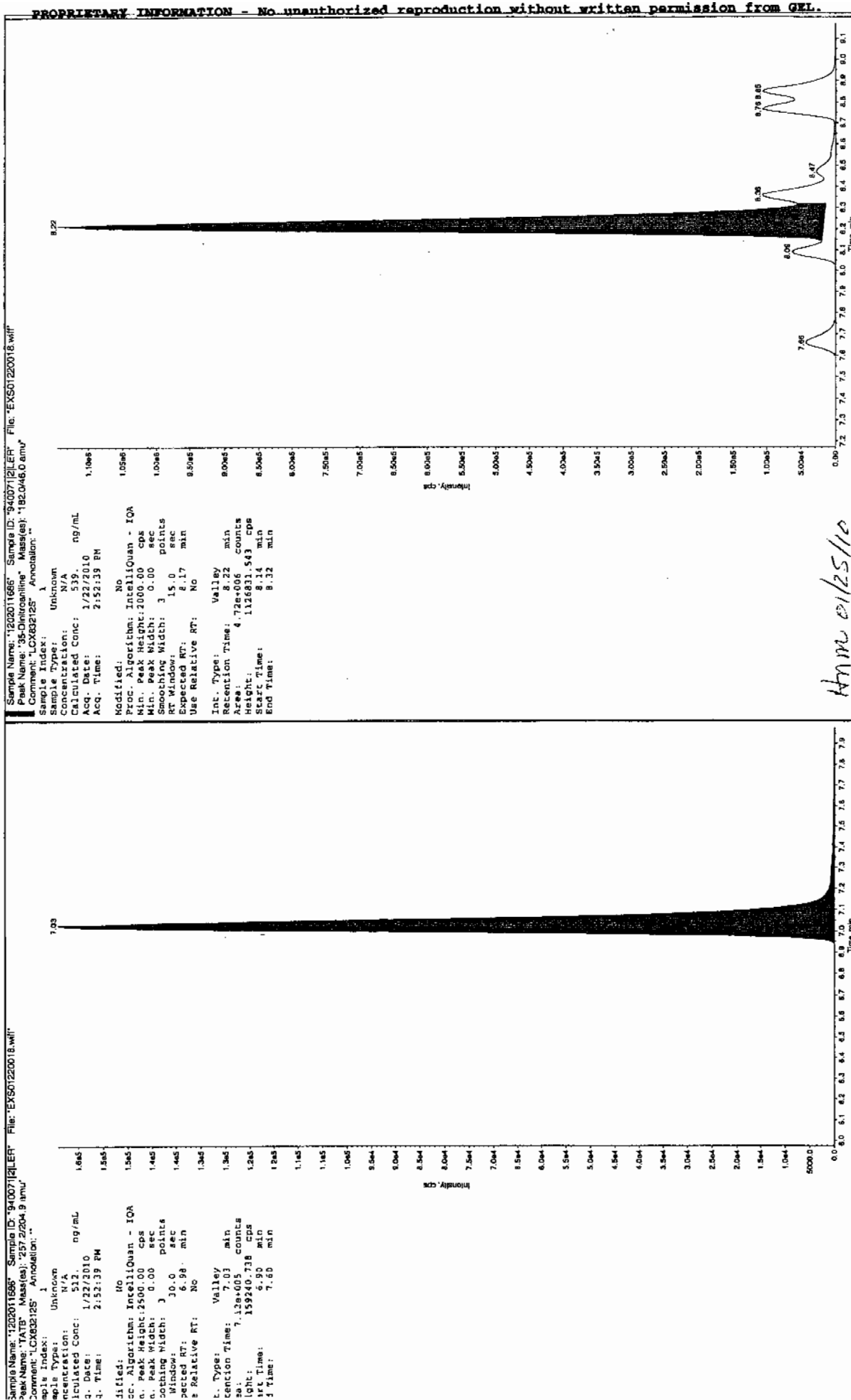
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5120	
59229-75-3	2,6-Diamino-4-nitrotoluene	4660	
618-87-1	3,5-Dinitroaniline	5560	
6629-29-4	2,4-Diamino-6-nitrotoluene	4490	
78-30-8	tris(o-cresyl) phosphate	4910	

*Concentration =

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

Before flux 1/25/10

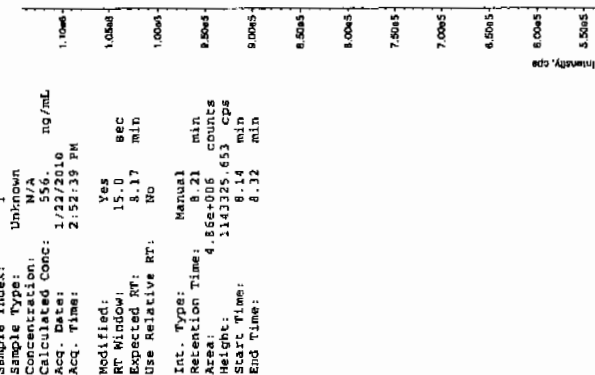
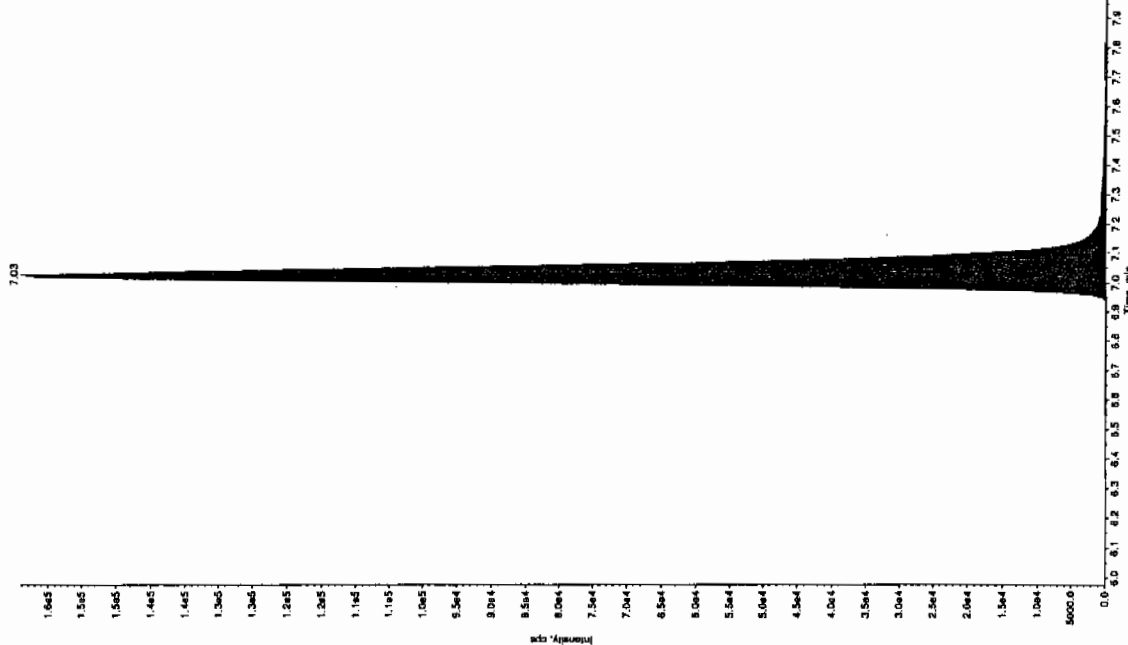


Ann 01/25/10

after Jan 1/25/10

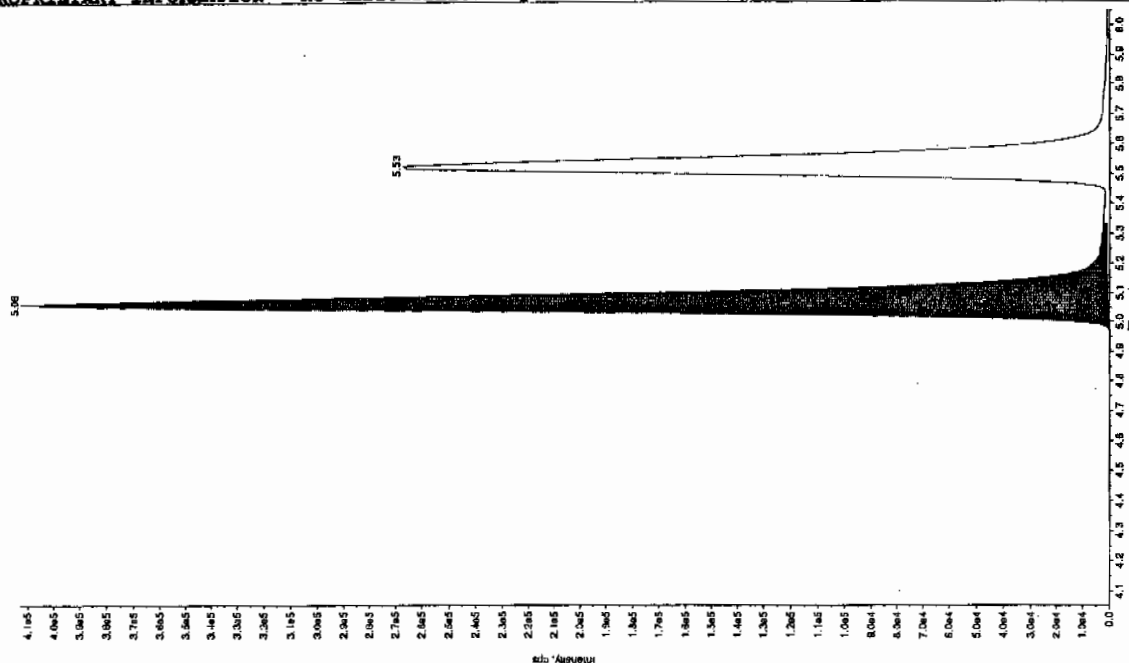
Sample Name: '1202011686' Sample ID: '94007121ER' File: 'EXS01220018.wif'
 Peak Name: '1A1B' Mass(es): '257.2204.9 amu'
 Comment: 'LCX83212S' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 512 ng/mL
 Acquisition Date: 1/22/2010
 Acquisition Time: 2:52:39 PM
 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: 4.86e+006 counts
 Height: 1143395.653 cps
 Start Time: 8.14 min
 End Time: 8.32 min



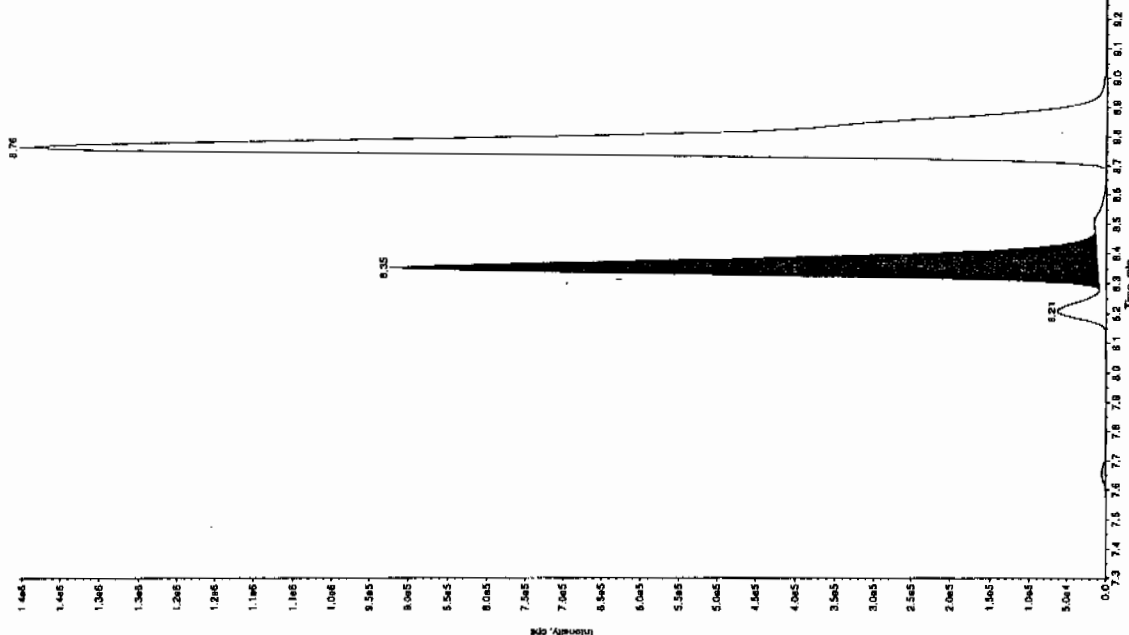
Sample Name: "1202011866" Sample ID: "94007121ER" File: "EXS01220018.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCX832125" Annotation: ""

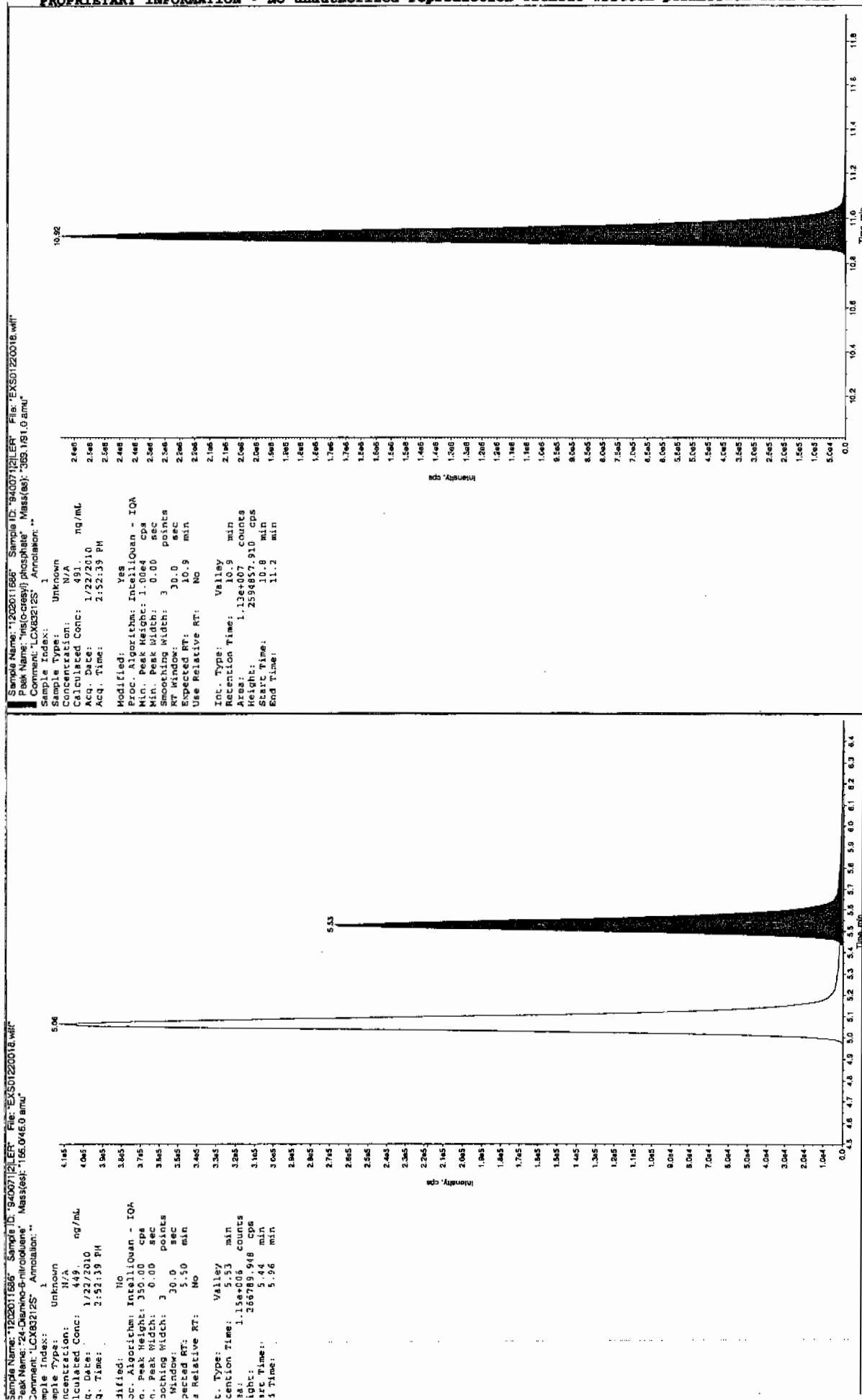
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 173.9500 ng/mL
 Acq. Time: 2:52:39 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.06 min
 Area: 1.82e+006 counts
 Height: 412481.812 cps
 Start Time: 4.95 min
 End Time: 5.33 min



Sample Name: "1202011866" Sample ID: "94007121ER" File: "EXS01220018.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "132.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 278 ng/mL
 Acq. Time: 2:52:39 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.30 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.51e+006 counts
 Height: 91020.996 cps
 Start Time: 8.28 min
 End Time: 8.47 min





MISCELLANEOUS DATA

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

Batch ID: 940063 Verified by: _____
 Analyst: Sirena White Lab SOP: GL-OA-E-033 REV# 17
 Method: SW846 8330 PREP Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202011683 MB	19-JAN-2010 17:15:41	2	10	5
1202011684 LCS	19-JAN-2010 17:15:41	2	10	5
244126001	19-JAN-2010 17:15:41	2	10	5
1202011685 MS (244126001)	19-JAN-2010 17:15:41	2	10	5
1202011686 MSD (244126001)	19-JAN-2010 17:15:41	2	10	5
244126002	19-JAN-2010 17:15:41	2	10	5
244126003	19-JAN-2010 17:15:41	2	10	5
244126004	19-JAN-2010 17:15:41	2	10	5
244126005	19-JAN-2010 17:15:41	2	10	5
244126006	19-JAN-2010 17:15:41	2	10	5
244126007	19-JAN-2010 17:15:41	2	10	5
244126008	19-JAN-2010 17:15:41	2	10	5
244126009	19-JAN-2010 17:15:41	2	10	5
244126010	19-JAN-2010 17:15:41	2	10	5
244126011	19-JAN-2010 17:15:41	2	10	5
244126012	19-JAN-2010 17:15:41	2	10	5
244126013	19-JAN-2010 17:15:41	2	10	5
244126014	19-JAN-2010 17:15:41	2	10	5
244126015	19-JAN-2010 17:15:41	2	10	5
244126016	19-JAN-2010 17:15:41	2	10	5
244126017	19-JAN-2010 17:15:41	2	10	5
244126018	19-JAN-2010 17:15:41	2	10	5
244126019	19-JAN-2010 17:15:41	2	10	5
244126020	19-JAN-2010 17:15:41	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202011684	8321 Explosives LCS	IXX091230-03	.1	mL	Final Solvent: ACN
LCS	1202011684	8321 LANL Explosives Mix 10mg/L	UXX091229-02.2	1	mL	
MS	1202011685	8321 Explosives LCS	IXX091230-03	.1	mL	
MS	1202011685	8321 LANL Explosives Mix 10mg/L	UXX091229-02.2	1	mL	
MSD	1202011686	8321 Explosives LCS	IXX091230-03	.1	mL	
MSD	1202011686	8321 LANL Explosives Mix 10mg/L	UXX091229-02.2	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	IXP100114-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCM SMS #1

Date: 01/25/10
 Extr. Injection Volume: 50uL
 Sequence Number: 012510expA
 Initial Calibration Date: 01/25/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX091230-01.3
 Mobile Phase Lot#: 1258263, 1236350
 Standard-Samp Reagent Lot#: 1253092, 1246195
 Reviewed BY: *Hnm*
 Date: *2/1/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100125-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0125001a	XIBLK01	MAP	1/25/10 11:20			1		USE	B
EXP0125002a	XIBLK01	MAP	1/25/10 11:50			1		USE	B
EXP0125003a	WXXICAL-01	MAP	1/25/10 12:19			1		USE	I
EXP0125004a	WXXICAL-02	MAP	1/25/10 12:49			1		USE	I
EXP0125005a	WXXICAL-03	MAP	1/25/10 13:18			1		USE	I
EXP0125006a	WXXICAL-04	MAP	1/25/10 13:48			1		USE	I
EXP0125007a	WXXICAL-05	MAP	1/25/10 14:17			1		USE	I
EXP0125008a	WXXICAL-06	MAP	1/25/10 14:47			1		USE	I
EXP0125009a	XIBLK02	MAP	1/25/10 15:16			1		USE	B
EXP0125010a	WXXICV	MAP	1/25/10 15:46			1		USE	C
EXP0125011a	XIBLK03	MAP	1/25/10 16:15			1		USE	B
EXP0125012a	WXXCRI	MAP	1/25/10 16:45			1		USE	C
EXP0125013a	244613001	MAP	1/25/10 17:14	941662	10-1218	2	LANL	USE	S
EXP0125014a	244616002	MAP	1/25/10 17:44	941662	10-1219	2	LANL	USE	S
EXP0125015a	244616003	MAP	1/25/10 18:13	941662	10-1219	2	LANL	USE	S
EXP0125016a	244616004	MAP	1/25/10 18:43	941662	10-1219	2	LANL	USE	S
EXP0125017a	244616005	MAP	1/25/10 19:12	941662	10-1219	2	LANL	USE	S
EXP0125018a	244616006	MAP	1/25/10 19:42	941662	10-1219	2	LANL	USE	S
EXP0125019a	244620001	MAP	1/25/10 20:11	941662	10-1221	2	LANL	USE	S
EXP0125020a	244620002	MAP	1/25/10 20:41	941662	10-1221	2	LANL	USE	S
EXP0125021a	244620003	MAP	1/25/10 21:10	941662	10-1221	2	LANL	USE	S
EXP0125022a	244620004	MAP	1/25/10 21:40	941662	10-1221	2	LANL	USE	S
EXP0125023a	WXXCCV	MAP	1/25/10 22:09			1		USE	C
EXP0125024a	XIBLK04	MAP	1/25/10 22:39			1		USE	B
EXP0125025a	WXXCRI	MAP	1/25/10 23:08			1		USE	C
EXP0125026a	244620005	MAP	1/25/10 23:38	941662	10-1221	2	LANL	USE	S
EXP0125027a	244620006	MAP	1/26/10 0:07	941662	10-1221	2	LANL	USE	S
EXP0125028a	244623001	MAP	1/26/10 0:37	941662	10-1223	2	LANL	USE	S
EXP0125029a	244623002	MAP	1/26/10 1:06	941662	10-1223	2	LANL	USE	S

EXP0125030a	244623003	MAP	1/26/10 1:36	941662	10-1223	2	LANL	USE	S
EXP0125031a	244623004	MAP	1/26/10 2:05	941662	10-1223	2	LANL	USE	S
EXP0125032a	244623005	MAP	1/26/10 2:35	941662	10-1223	2	LANL	USE	S
EXP0125033a	244623006	MAP	1/26/10 3:04	941662	10-1223	2	LANL	USE	S
EXP0125034a	WXXCCV	MAP	1/26/10 3:34			1		USE	C
EXP0125035a	XIBLK05	MAP	1/26/10 4:03			1		USE	B
EXP0125036a	WXXCRI	MAP	1/26/10 4:33			1		USE	C
EXP0125037a	1202011683	MAP	1/26/10 5:02	940071	10-1131	2	LANL	USE	S
EXP0125038a	1202011684	MAP	1/26/10 5:32	940071	10-1131	2	LANL	USE	S
EXP0125039a	244126001	MAP	1/26/10 6:01	940071	10-1131	2	LANL	USE	S
EXP0125040a	1202011685	MAP	1/26/10 6:31	940071	10-1131	2	LANL	USE	S
EXP0125041a	1202011686	MAP	1/26/10 7:01	940071	10-1131	2	LANL	USE	S
EXP0125042a	244126002	MAP	1/26/10 7:30	940071	10-1131	2	LANL	USE	S
EXP0125043a	244126003	MAP	1/26/10 7:59	940071	10-1131	2	LANL	USE	S
EXP0125044a	244126004	MAP	1/26/10 8:29	940071	10-1131	2	LANL	USE	S
EXP0125045a	244126005	MAP	1/26/10 8:58	940071	10-1131	2	LANL	USE	S
EXP0125046a	244126006	MAP	1/26/10 9:28	940071	10-1131	2	LANL	USE	S
EXP0125047a	WXXCCV	MAP	1/26/10 9:58			1		USE	C
EXP0125048a	XIBLK06	MAP	1/26/10 10:27			1		USE	B
EXP0125049a	WXXCRI	MAP	1/26/10 10:57			1		USE	C
EXP0125050a	244126007	MAP	1/26/10 11:26	940071	10-1131	2	LANL	USE	S
EXP0125051a	244126008	MAP	1/26/10 11:56	940071	10-1131	2	LANL	USE	S
EXP0125052a	244126009	MAP	1/26/10 12:25	940071	10-1131	2	LANL	USE	S
EXP0125053a	244126010	MAP	1/26/10 12:55	940071	10-1131	2	LANL	USE	S
EXP0125054a	244126011	MAP	1/26/10 13:24	940071	10-1131	2	LANL	USE	S
EXP0125055a	244126012	MAP	1/26/10 13:54	940071	10-1131	2	LANL	USE	S
EXP0125056a	244126013	MAP	1/26/10 14:23	940071	10-1131	2	LANL	USE	S
EXP0125057a	244126014	MAP	1/26/10 14:53	940071	10-1131	2	LANL	USE	S
EXP0125058a	244126015	MAP	1/26/10 15:22	940071	10-1131	2	LANL	USE	S
EXP0125059a	244126016	MAP	1/26/10 15:51	940071	10-1131	2	LANL	USE	S
EXP0125060a	WXXCCV	MAP	1/26/10 16:21			1		USE	C
EXP0125061a	XIBLK07	MAP	1/26/10 16:50			1		USE	B
EXP0125062a	WXXCRI	MAP	1/26/10 17:20			1		USE	C
EXP0125063a	244126017	MAP	1/26/10 17:49	940071	10-1131	2	LANL	USE	S
EXP0125064a	244126018	MAP	1/26/10 18:19	940071	10-1131	2	LANL	USE	S
EXP0125065a	244126019	MAP	1/26/10 18:49	940071	10-1131	2	LANL	USE	S
EXP0125066a	244126020	MAP	1/26/10 19:18	940071	10-1131	2	LANL	USE	S

EXP0125067a	XIBLK08	MAP	1/26/10 19:48	940049	10-1126	1	LANL	USE	B
EXP0125068a	1202011636	MAP	1/26/10 20:17	940049	10-1126	2	LANL	USE	S
EXP0125069a	1202011639	MAP	1/26/10 20:47	940049	10-1126	2	LANL	USE	S
EXP0125070a	244137001	MAP	1/26/10 21:16	940049	10-1126	2	LANL	USE	S
EXP0125071a	244137002	MAP	1/26/10 21:46	940049	10-1126	2	LANL	USE	S
EXP0125072a	244137003	MAP	1/26/10 22:15	940049	10-1126	2	LANL	USE	S
EXP0125073a	WXXCCV	MAP	1/26/10 22:45			1		USE	C
EXP0125074a	XIBLK09	MAP	1/26/10 23:14			1		USE	B
EXP0125075a	WXXCRI	MAP	1/26/10 23:44			1		USE	C
EXP0125076a	244137004	MAP	1/27/10 0:13	940049	10-1126	2	LANL	USE	S
EXP0125077a	244137005	MAP	1/27/10 0:43	940049	10-1126	2	LANL	USE	S
EXP0125078a	244137006	MAP	1/27/10 1:12	940049	10-1126	2	LANL	USE	S
EXP0125079a	1202011637	MAP	1/27/10 1:42	940049	10-1126	2	LANL	USE	S
EXP0125080a	1202011638	MAP	1/27/10 2:11	940049	10-1126	2	LANL	DUSE-RA	S
EXP0125081a	244137007	MAP	1/27/10 2:41	940049	10-1126	2	LANL	USE	S
EXP0125082a	WXXCCV	MAP	1/27/10 3:10			1		USE	C
EXP0125083a	XIBLK10	MAP	1/27/10 3:40			1		USE	B
EXP0125084a	WXXCRI	MAP	1/27/10 4:09			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 01/22/10
 Extr. Injection Volume: 10ul
 Sequence Number: 012210exs
 Initial Calibration Date: 012210
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1236350, 1246467
 Standard-Samp Reagent Lot#: 1246195, 1253092
 Reviewed By: *hann*
 Date: *2/25/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100122-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS01220001.wiff	XIBLK01	LER	1/22/2010 10:25			1		USE	B
EXS01220002.wiff	XIBLK01	LER	1/22/2010 10:41			1		USE	B
EXS01220003.wiff	WXXICAL-19	LER	1/22/2010 10:57			1		USE	I
EXS01220004.wiff	WXXICAL-20	LER	1/22/2010 11:12			1		USE	I
EXS01220005.wiff	WXXICAL-21	LER	1/22/2010 11:28			1		USE	I
EXS01220006.wiff	WXXICAL-22	LER	1/22/2010 11:44			1		USE	I
EXS01220007.wiff	WXXICAL-23	LER	1/22/2010 12:00			1		USE	I
EXS01220008.wiff	WXXICAL-24	LER	1/22/2010 12:15			1		USE	I
EXS01220009.wiff	WXXICAL-25	LER	1/22/2010 12:31			1		USE	I
EXS01220010.wiff	XIBLK02	LER	1/22/2010 12:47			1		USE	B
EXS01220011.wiff	WXXICV	LER	1/22/2010 13:02			1		USE	C
EXS01220012.wiff	XIBLK03	LER	1/22/2010 13:18			1		USE	B
EXS01220013.wiff	WXXCRI	LER	1/22/2010 13:34			1		USE	C
EXS01220014.wiff	1202011683	LER	1/22/2010 13:49	940071	10-1131	2	LANL	USE	S
EXS01220015.wiff	1202011684	LER	1/22/2010 14:05	940071	10-1131	2	LANL	USE	S
EXS01220016.wiff	244126001	LER	1/22/2010 14:21	940071	10-1131	2	LANL	USE	S
EXS01220017.wiff	1202011685	LER	1/22/2010 14:36	940071	10-1131	2	LANL	USE	S
EXS01220018.wiff	1202011686	LER	1/22/2010 14:52	940071	10-1131	2	LANL	USE	S
EXS01220019.wiff	244126002	LER	1/22/2010 15:08	940071	10-1131	2	LANL	USE	S
EXS01220020.wiff	244126003	LER	1/22/2010 15:24	940071	10-1131	2	LANL	USE	S
EXS01220021.wiff	244126004	LER	1/22/2010 15:39	940071	10-1131	2	LANL	USE	S
EXS01220022.wiff	244126005	LER	1/22/2010 15:55	940071	10-1131	2	LANL	USE	S
EXS01220023.wiff	244126006	LER	1/22/2010 16:11	940071	10-1131	2	LANL	USE	S
EXS01220024.wiff	WXXCCV	LER	1/22/2010 16:26			1		USE	C
EXS01220025.wiff	XIBLK04	LER	1/22/2010 16:42			1		USE	B
EXS01220026.wiff	WXXCRI	LER	1/22/2010 16:58			1		USE	C
EXS01220027.wiff	244126007	LER	1/22/2010 17:13	940071	10-1131	2	LANL	USE	S
EXS01220028.wiff	244126008	LER	1/22/2010 17:29	940071	10-1131	2	LANL	USE	S
EXS01220029.wiff	244126009	LER	1/22/2010 17:45	940071	10-1131	2	LANL	USE	S
EXS01220030.wiff	244126010	LER	1/22/2010 18:01	940071	10-1131	2	LANL	USE	S

EXS01220031.wiff	244126011	LER	1/22/2010 18:16	940071	10-1131	2	LANL	USE	S
EXS01220032.wiff	244126012	LER	1/22/2010 18:32	940071	10-1131	2	LANL	USE	S
EXS01220033.wiff	244126013	LER	1/22/2010 18:48	940071	10-1131	2	LANL	USE	S
EXS01220034.wiff	244126014	LER	1/22/2010 19:03	940071	10-1131	2	LANL	USE	S
EXS01220035.wiff	244126015	LER	1/22/2010 19:19	940071	10-1131	2	LANL	USE	S
EXS01220036.wiff	244126016	LER	1/22/2010 19:35	940071	10-1131	2	LANL	USE	S
EXS01220037.wiff	WXXCCV	LER	1/22/2010 19:50			1		USE	C
EXS01220038.wiff	XIBLK05	LER	1/22/2010 20:06			1		USE	B
EXS01220039.wiff	WXXCRI	LER	1/22/2010 20:22			1		USE	C
EXS01220040.wiff	244126017	LER	1/22/2010 20:38	940071	10-1131	2	LANL	USE	S
EXS01220041.wiff	244126018	LER	1/22/2010 20:53	940071	10-1131	2	LANL	USE	S
EXS01220042.wiff	244126019	LER	1/22/2010 21:09	940071	10-1131	2	LANL	USE	S
EXS01220043.wiff	244126020	LER	1/22/2010 21:25	940071	10-1131	2	LANL	USE	S
EXS01220044.wiff	XIBLK06	LER	1/22/2010 21:40			1		USE	B
EXS01220045.wiff	1202012974	LER	1/22/2010 21:56	940579	10-1160-1	2	LANL	USE	S
EXS01220046.wiff	1202012975	LER	1/22/2010 22:12	940579	10-1160-1	2	LANL	USE	S
EXS01220047.wiff	244210001	LER	1/22/2010 22:28	940579	10-1160-1	2	LANL	USE	S
EXS01220048.wiff	1202012976	LER	1/22/2010 22:43	940579	10-1160-1	2	LANL	USE	S
EXS01220049.wiff	1202012977	LER	1/22/2010 22:59	940579	10-1160-1	2	LANL	USE	S
EXS01220050.wiff	WXXCCV	LER	1/22/2010 23:15			1		USE	C
EXS01220051.wiff	XIBLK07	LER	1/22/2010 23:30			1		USE	B
EXS01220052.wiff	WXXCRI	LER	1/22/2010 23:46			1		USE	C
EXS01220053.wiff	244210002	LER	1/23/2010 0:02	940579	10-1160-1	2	LANL	USE	S
EXS01220054.wiff	244210003	LER	1/23/2010 0:18	940579	10-1160-1	2	LANL	USE	S
EXS01220055.wiff	244210004	LER	1/23/2010 0:33	940579	10-1160-1	2	LANL	USE	S
EXS01220056.wiff	244210005	LER	1/23/2010 0:49	940579	10-1160-1	2	LANL	USE	S
EXS01220057.wiff	244210006	LER	1/23/2010 1:05	940579	10-1160-1	2	LANL	USE	S
EXS01220058.wiff	244210007	LER	1/23/2010 1:20	940579	10-1160-1	2	LANL	USE	S
EXS01220059.wiff	244210008	LER	1/23/2010 1:36	940579	10-1160-1	2	LANL	USE	S
EXS01220060.wiff	244210009	LER	1/23/2010 1:52	940579	10-1160-1	2	LANL	USE	S
EXS01220061.wiff	244210010	LER	1/23/2010 2:07	940579	10-1160-1	2	LANL	USE	S
EXS01220062.wiff	244210011	LER	1/23/2010 2:23	940579	10-1160-1	2	LANL	USE	S
EXS01220063.wiff	WXXCCV	LER	1/23/2010 2:39			1		USE	C
EXS01220064.wiff	XIBLK08	LER	1/23/2010 2:55			1		USE	B
EXS01220065.wiff	WXXCRI	LER	1/23/2010 3:10			1		USE	C
EXS01220066.wiff	244210012	LER	1/23/2010 3:26	940579	10-1160-1	2	LANL	USE	S
EXS01220067.wiff	244210013	LER	1/23/2010 3:42	940579	10-1160-1	2	LANL	USE	S

EXS01220068.wiff	244210014	LER	1/23/2010 3:57	940579	10-1160-1	2	LANL	USE	S
EXS01220069.wiff	244210015	LER	1/23/2010 4:13	940579	10-1160-1	2	LANL	USE	S
EXS01220070.wiff	WXXCCV	LER	1/23/2010 4:29			1		USE	C
EXS01220071.wiff	XIBLK09	LER	1/23/2010 4:45			1		USE	B
EXS01220072.wiff	WXXCRI	LER	1/23/2010 5:00			1		USE	C
EXS01220073.wiff	1202015506	LER	1/23/2010 5:16	941662	VARIOUS	2	LANL	USE	S
EXS01220074.wiff	1202015507	LER	1/23/2010 5:32	941662	VARIOUS	2	LANL	USE	S
EXS01220075.wiff	244612001	LER	1/23/2010 5:47	941662	10-1216	2	LANL	USE	S
EXS01220076.wiff	1202015508	LER	1/23/2010 6:03	941662	10-1216	2	LANL	USE	S
EXS01220077.wiff	1202015509	LER	1/23/2010 6:19	941662	10-1216	2	LANL	USE	S
EXS01220078.wiff	244613001	LER	1/23/2010 6:35	941662	10-1218	2	LANL	USE	S
EXS01220079.wiff	244616002	LER	1/23/2010 6:50	941662	10-1219	2	LANL	USE	S
EXS01220080.wiff	244616003	LER	1/23/2010 7:06	941662	10-1219	2	LANL	USE	S
EXS01220081.wiff	244616004	LER	1/23/2010 7:22	941662	10-1219	2	LANL	USE	S
EXS01220082.wiff	244616005	LER	1/23/2010 7:37	941662	10-1219	2	LANL	USE	S
EXS01220083.wiff	WXXCCV	LER	1/23/2010 7:53			1		USE	C
EXS01220084.wiff	XIBLK10	LER	1/23/2010 8:09			1		USE	B
EXS01220085.wiff	WXXCRI	LER	1/23/2010 8:24			1		USE	C
EXS01220086.wiff	244616006	LER	1/23/2010 8:40	941662	10-1219	2	LANL	USE	S
EXS01220087.wiff	244620001	LER	1/23/2010 8:56	941662	10-1221	2	LANL	USE	S
EXS01220088.wiff	244620002	LER	1/23/2010 9:11	941662	10-1221	2	LANL	USE	S
EXS01220089.wiff	244620003	LER	1/23/2010 9:27	941662	10-1221	2	LANL	USE	S
EXS01220090.wiff	244620004	LER	1/23/2010 9:43	941662	10-1221	2	LANL	USE	S
EXS01220091.wiff	244620005	LER	1/23/2010 9:59	941662	10-1221	2	LANL	USE	S
EXS01220092.wiff	244620006	LER	1/23/2010 10:14	941662	10-1221	2	LANL	USE	S
EXS01220093.wiff	244623001	LER	1/23/2010 10:30	941662	10-1223	2	LANL	USE	S
EXS01220094.wiff	244623002	LER	1/23/2010 10:46	941662	10-1223	2	LANL	USE	S
EXS01220095.wiff	244623003	LER	1/23/2010 11:01	941662	10-1223	2	LANL	USE	S
EXS01220096.wiff	WXXCCV	LER	1/23/2010 11:17			1		USE	C
EXS01220097.wiff	XIBLK11	LER	1/23/2010 11:33			1		USE	B
EXS01220098.wiff	WXXCRI	LER	1/23/2010 11:48			1		USE	C
EXS01220099.wiff	244623004	LER	1/23/2010 12:04	941662	10-1223	2	LANL	USE	S
EXS01220100.wiff	244623005	LER	1/23/2010 12:20	941662	10-1223	2	LANL	USE	S
EXS01220101.wiff	244623006	LER	1/23/2010 12:36	941662	10-1223	2	LANL	USE	S
EXS01220102.wiff	WXXCCV	LER	1/23/2010 12:51			1		USE	C
EXS01220103.wiff	XIBLK12	LER	1/23/2010 13:07			1		USE	B
EXS01220104.wiff	WXXCRI	LER	1/23/2010 13:23			1		USE	C

GC
SEMIVOLATILE
PCB
ANALYSIS

PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1131

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 940403
Prep Batch Number: 940402

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
244126019	RE12-10-7657
244126020	RE12-10-7658
1202012544	Method Blank (MB)
1202012545	Laboratory Control Sample (LCS)
1202012546	244126019(RE12-10-7657) Matrix Spike (MS)
1202012547	244126019(RE12-10-7657) 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# 14.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

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

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

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

Continuing Calibration Verification (CCV) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 244126019 (RE12-10-7657) was selected for the matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

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 reports (DERs) are for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integrations

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS. The data reported for the MS and MSD are from the same analytical column as the parent sample.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form 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 Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticideII)

Certification Statement

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

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Andy Whitlock

Date: 2-2-2010

Roadmap for LANL 10-1131 PCB

This roadmap was analyzed by yip00818 on 01-12-2010, 14:39.

This roadmap was reviewed by rob01090 on 01-19-2010, 15:38.

This roadmap was packaged by yml on 02-02-2010, 14:40.

This roadmap was validated by rob01090 on 02-02-2010, 20:20.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublst	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/025f2501.d	244126019	sample	12-JAN-2010	12:11	10-1131.sub	RE12-10-7657	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/028f2801.d	244126020	sample	12-JAN-2010	12:49	10-1131.sub	RE12-10-7658	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublst	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/025b2501.d	244126019	sample	12-JAN-2010	12:11	10-1131.sub	RE12-10-7657	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/028b2801.d	244126020	sample	12-JAN-2010	12:49	10-1131.sub	RE12-10-7658	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublst	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/021f2101-3.d	1202012544	mb	12-JAN-2010	11:24	10-1131.sub	PBLK01	1.00000	940403	
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/022f2201-3.d	1202012545	lcs	12-JAN-2010	11:35	10-1131.sub	PBLK01LCS	1.00000	940403	
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/026f2601.d	1202012546	ms	12-JAN-2010	12:23	10-1131.sub	RE12-10-7657MS	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/027f2701.d	1202012547	msd	12-JAN-2010	12:36	10-1131.sub	RE12-10-7657MSD	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublst	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/021b2101-3.d	1202012544	mb	12-JAN-2010	11:24	10-1131.sub	PBLK01	1.00000	940403	
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/022b2201-3.d	1202012545	lcs	12-JAN-2010	11:35	10-1131.sub	PBLK01LCS	1.00000	940403	
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/026b2601.d	1202012546	ms	12-JAN-2010	12:23	10-1131.sub	RE12-10-7657MS	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/011210.b/027b2701.d	1202012547	msd	12-JAN-2010	12:36	10-1131.sub	RE12-10-7657MSD	1.00000	940403	UPLOAD BOTH COLUMNS, USE HIGHER

SAMPLE DATA SUMMARY

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1131
Lab Sample ID: 244126019Date Collected: 01/05/2010 12:00
Date Received: 01/08/2010 09:05
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 10.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

PCB

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Certificate of Analysis
Sample Summary

SDG Number:	10-1131	Date Collected:	01/05/2010 12:00	Matrix:	R
Lab Sample ID:	244126020	Date Received:	01/08/2010 09:05	% Moisture:	10.4
Client ID:	RE12-10-7658	Client:	LANL010	Project:	LANL01004
Batch ID:	940403	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	01/12/2010 12:49	Inst:	ECD1A.I	Dilution:	1
Prep Date:	01/11/2010 19:04	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	028f2801.d	Aliquot:	30.17 g	Final Volume:	1 mL
	028b2801.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	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

QUALITY CONTROL SUMMARY

PCB

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Surrogate Recovery Report

SDG Number: 10-1131

Matrix Type: SOLID

CAP Column (1) : CLP1

CAP Column (2) : CLP2

Sample ID	Client ID	4CMX 1	4CMX 2	DCB 1	DCB 2
		%REC #	%REC #	%REC #	%REC #
1202012544	MB for batch 940402	66	61	67	66
1202012545	LCS for batch 940402	66	61	63	64
244126019	RE12-10-7657	63	59	65	64
1202012546	RE12-10-7657MS	63	59	60	62
1202012547	RE12-10-7657MSD	64	60	65	65
244126020	RE12-10-7658	66	61	65	66

Surrogate

Acceptance Limits

4CMX = 4cmx

(34%-105%)

DCB = Decachlorobiphenyl

(33%-115%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1131

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 940402

Matrix: SOIL

Lab Sample ID:1202012545

Instrument: ECD1A.I

Analysis Date: 01/12/2010 11:35

Dilution: 1

Analyst: YS1

Prep Batch ID: 940402

Inj. Vol: 1 uL

Batch ID: 940403

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	21.1	63	41-110
11096-82-5	LCS Aroclor-1260	33.3	0.0	24.0	72	48-110

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1131

Sample Type: Matrix Spike

Client ID: RE12-10-7657MS

Matrix: R

Lab Sample ID: 1202012546

%Moisture: 10.1

Instrument: ECD1A.I

Analysis Date: 01/12/2010 12:23

Dilution: 1

Analyst: YS1

Prep Batch ID: 940402

Inj. Vol: 1 uL

Batch ID: 940403

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	37.0	0.00 U	23.1	62	23-117
11096-82-5	MS Aroclor-1260	37.0	0.00 U	28.9	78	27-116

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1131

Client ID: RE12-10-7657MSD

Lab Sample ID:1202012547

Instrument: ECD1A.I

Analyst: YS1

Inj. Vol: 1 uL

Sample Type: Matrix Spike Duplicate

Matrix: R

%Moisture: 10.1

Analysis Date: 01/12/2010 12:36

Dilution: 1

Prep Batch ID: 940402

Batch ID: 940403

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	37.1	0.00 U	23.5	63	23-117	2	0-30
11096-82-5	MSD Aroclor-1260	37.1	0.00 U	30.7	83	27-116	6	0-30

Method Blank Summary

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SDG Number:	10-1131	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 940402	Instrument ID:	ECD1A.I_2	Data File:	021b2101-1.d
Lab Sample ID:	1202012544		ECD1A.I_1		021f2101-1.d
Column:	CLP2	Prep Date:	01/11/2010 19:04	Analyzed:	01/12/10 11:24
	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 940402	1202012545	022f2201-1.d 022b2201-1.d	01/12/10	1135
02 RE12-10-7657	244126019	025f2501.d 025b2501.d	01/12/10	1211
03 RE12-10-7657MS	1202012546	026f2601.d 026b2601.d	01/12/10	1223
04 RE12-10-7657MSD	1202012547	027f2701.d 027b2701.d	01/12/10	1236
05 RE12-10-7658	244126020	028f2801.d 028b2801.d	01/12/10	1249

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1131
Lab Sample ID: 244126019

Client ID: RE12-10-7657
Batch ID: 940403
Run Date: 01/12/2010 12:11
Prep Date: 01/11/2010 19:04
Data File: 025f2501.d
025b2501.d

Date Collected: 01/05/2010 12:00
Date Received: 01/08/2010 09:05
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 10.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

Data File: /chem/ecdla.i/011210.b/025f2501.d
Report Date: 23-Jan-2010 10:50

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/025f2501.d
Lab Smp Id: 244126019 Client Smp ID: RE12-10-7657
Inj Date : 12-JAN-2010 12:11
Operator : YS1 Inst ID: ecdla.i
Smp Info : |244126019|1|
Misc Info : |ECD82P_1S|940403|SVA|LANL|SOIL|RE12-10-7657|||
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.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	30.08000	Weight of sample extracted (g)
M	10.13920	% 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							
1.967	1.969	-0.002	44902158	125.607	4.6 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.281	5.283	-0.002	39331219	130.232	4.8 80.00- 120.00	100.00	

Data File: /chem/ecdl1a.i/011210.k/025f2501.d

Date: 12-JAN-2010 12:11

Client ID: RE12-10-7657

Sample Info: 1244126019111

Volume Injected (uL): 1.0

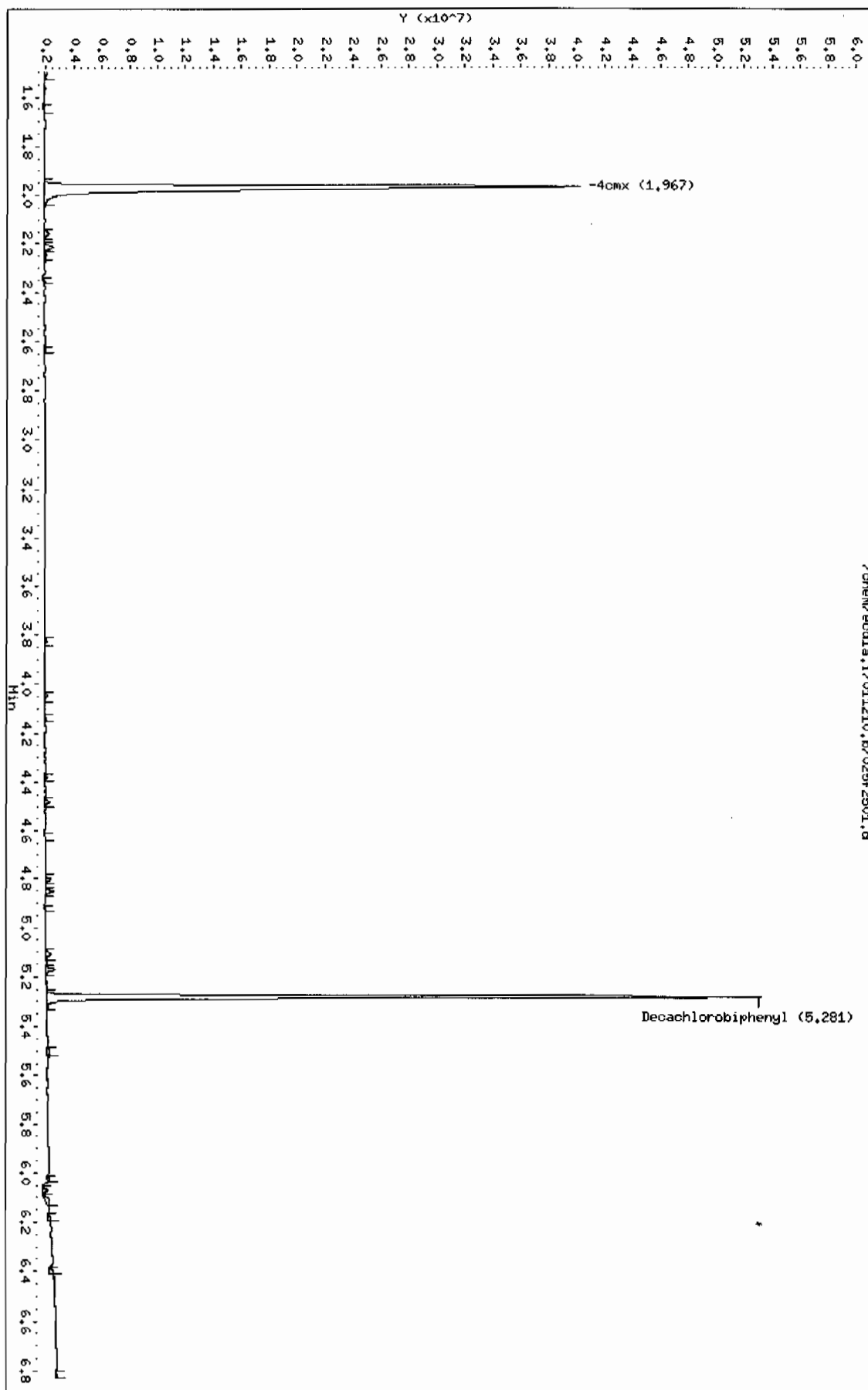
Column phase: CLP1

Instrument: ecdl1a.i

Operator: YS1

Column diameter: 0.25

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Data File: /chem/ecd1a.i/011210.b/025b2501.d
Report Date: 23-Jan-2010 10:50

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd1a.i/011210.b/025b2501.d
Lab Smp Id: 244126019 Client Smp ID: RE12-10-7657
Inj Date : 12-JAN-2010 12:11
Operator : YSl Inst ID: ecd1a.i
Smp Info : |244126019|1|
Misc Info : |ECD82P_1S|940403|SVA|LANL|SOIL|RE12-10-7657|||
Comment :
Method : /chem/ecd1a.i/011210.b/ECD1-B-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.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	30.08000	Weight of sample extracted (g)
M	10.13920	% 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			
2.298	2.299 -0.001	33694852 118.087	4.4	80.00- 120.00	100.00		

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.943	5.945 -0.002	28217596 127.229	4.7	80.00- 120.00	100.00		

Data File: /chem/ecd1a.i/011210.b/025b2501.d

Date: 12-JAN-2010 12:11

Client ID: RE12-10-7657

Sample Info: 12412601911

Volume Injected (uL): 1.0

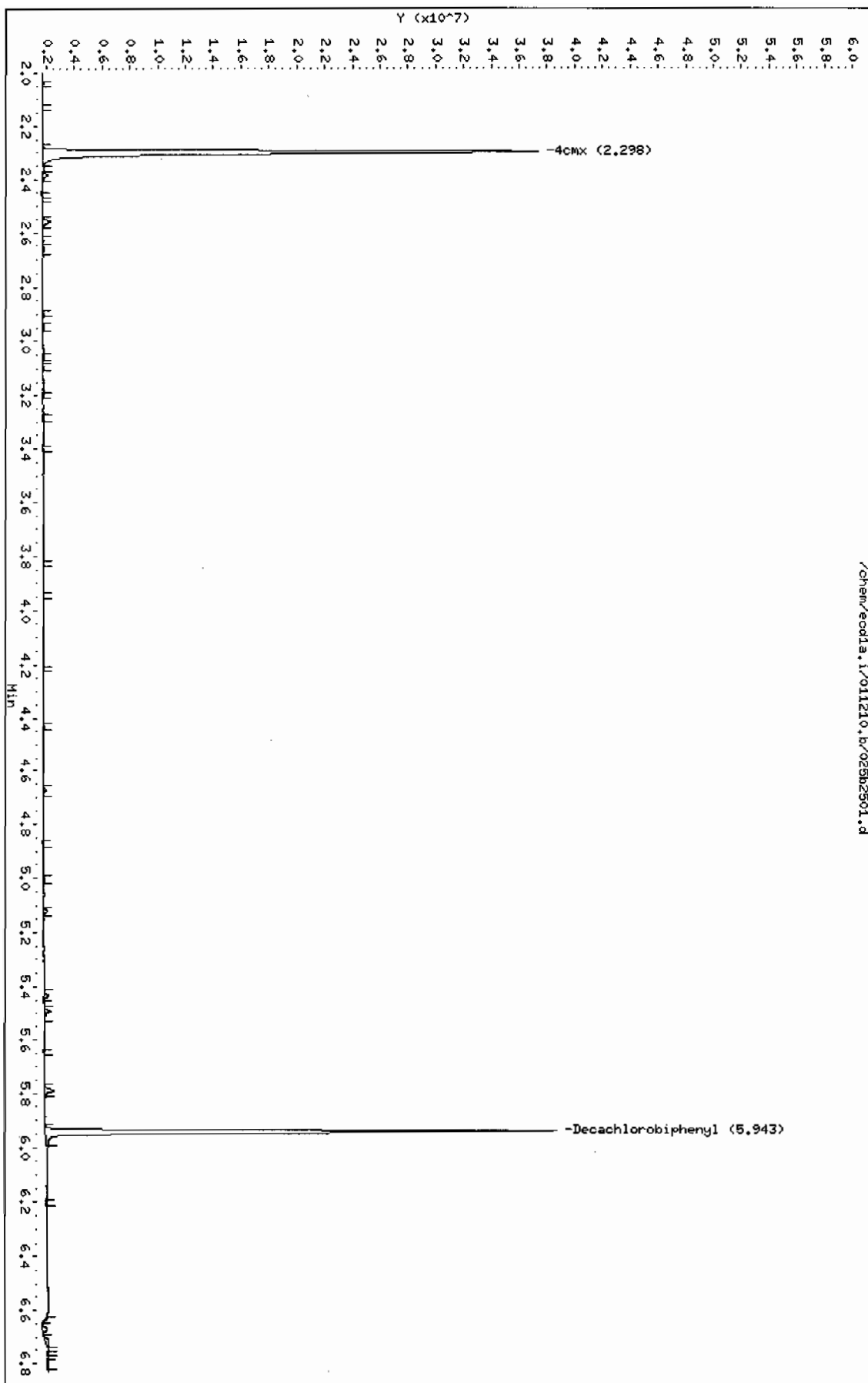
Column phase: CLP2

Instrument: ecd1a.i

Operator: YSI

Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1131
Lab Sample ID: 244126020

Date Collected: 01/05/2010 12:00
Date Received: 01/08/2010 09:05
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.17 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7658
Batch ID: 940403
Run Date: 01/12/2010 12:49
Prep Date: 01/11/2010 19:04
Data File: 028f2801.d
028b2801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

Data File: /chem/ecdl1a.i/011210.b/028f2801.d
Report Date: 23-Jan-2010 10:51

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/011210.b/028f2801.d
Lab Smp Id: 244126020 Client Smp ID: RE12-10-7658
Inj Date : 12-JAN-2010 12:49
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |244126020|1|
Misc Info : |ECD82P_1S|940403|SVA|LANL|SOIL|RE12-10-7658|||
Comment :
Method : /chem/ecdl1a.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.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	30.17000	Weight of sample extracted (g)
M	10.44020	% 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						
1.968	1.969	-0.001	46833620 131.010	4.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.281	5.283	-0.002	39521670 130.862	4.8	80.00- 120.00	100.00

Data File: /chem/ecdda.i/011210.b/028f2801.d

Date: 12-JAN-2010 12:49

Client ID: RE12-10-7658

Sample Info: 12442602011

Volume Injected (ul): 1.0

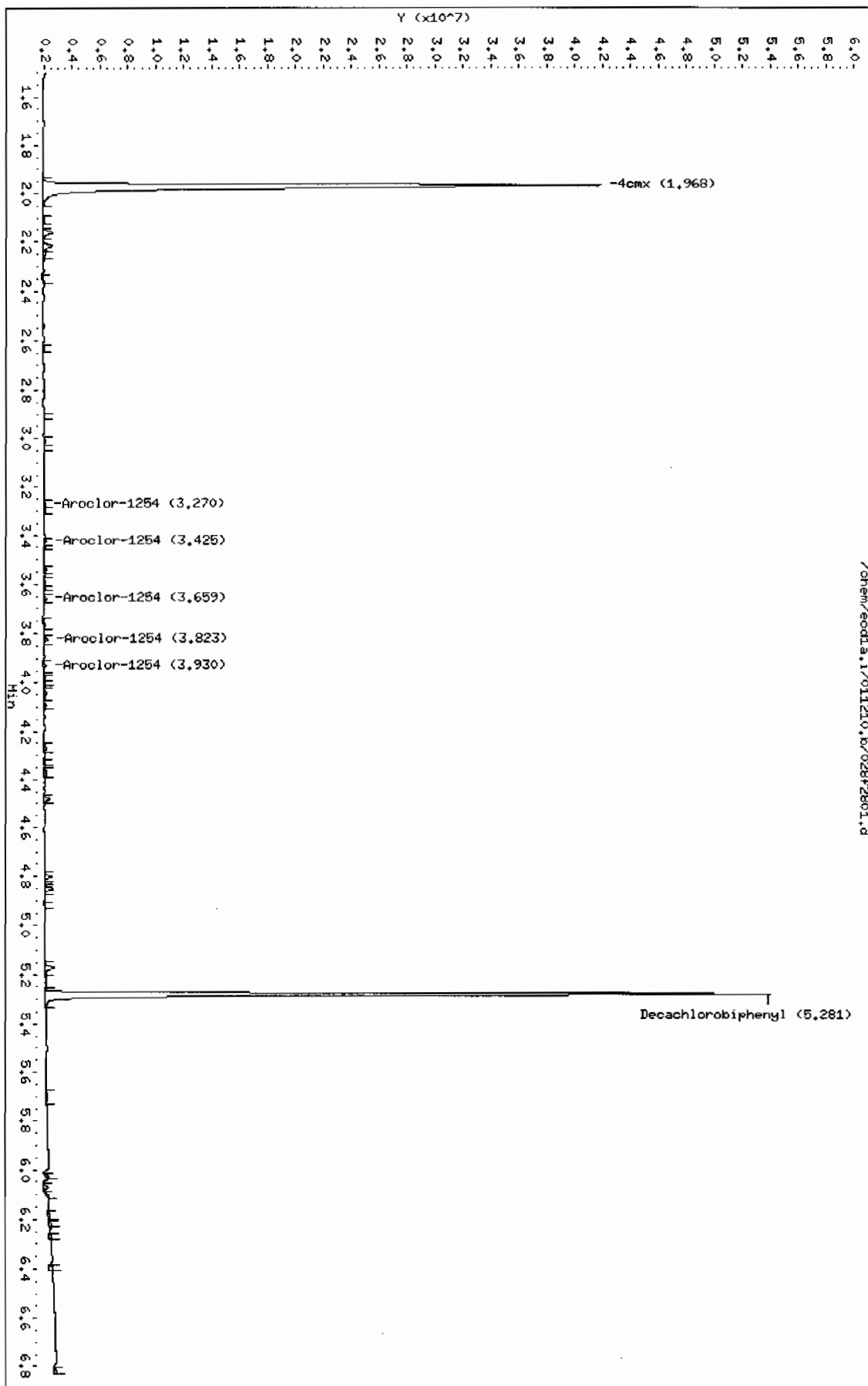
Column phase: CLP1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/028b2801.d
 Lab Smp Id: 244126020 Client Smp ID: RE12-10-7658
 Inj Date : 12-JAN-2010 12:49
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |244126020|1|
 Misc Info : |ECD82P_1S|940403|SVA|LANL|SOIL|RE12-10-7658|||
 Comment :
 Method : /chem/ecdla.i/011210.b/ECD1-B-8082-121409.m
 Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
 Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1131.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclpl1

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	30.17000	Weight of sample extracted (g)
M	10.44020	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL RESPONSE (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
2.299	2.299	0.000	34859937	122.170	4.5 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.943	5.945	-0.002	29474504	132.896	4.9 80.00- 120.00	100.00

Data File: /chem/ecdda.i/011210.b/028b2801.d

Date : 12-JAN-2010 12:49

Client ID: REL2-10-7658

Sample Info: 1244126020111

Volume Injected (uL): 1.0

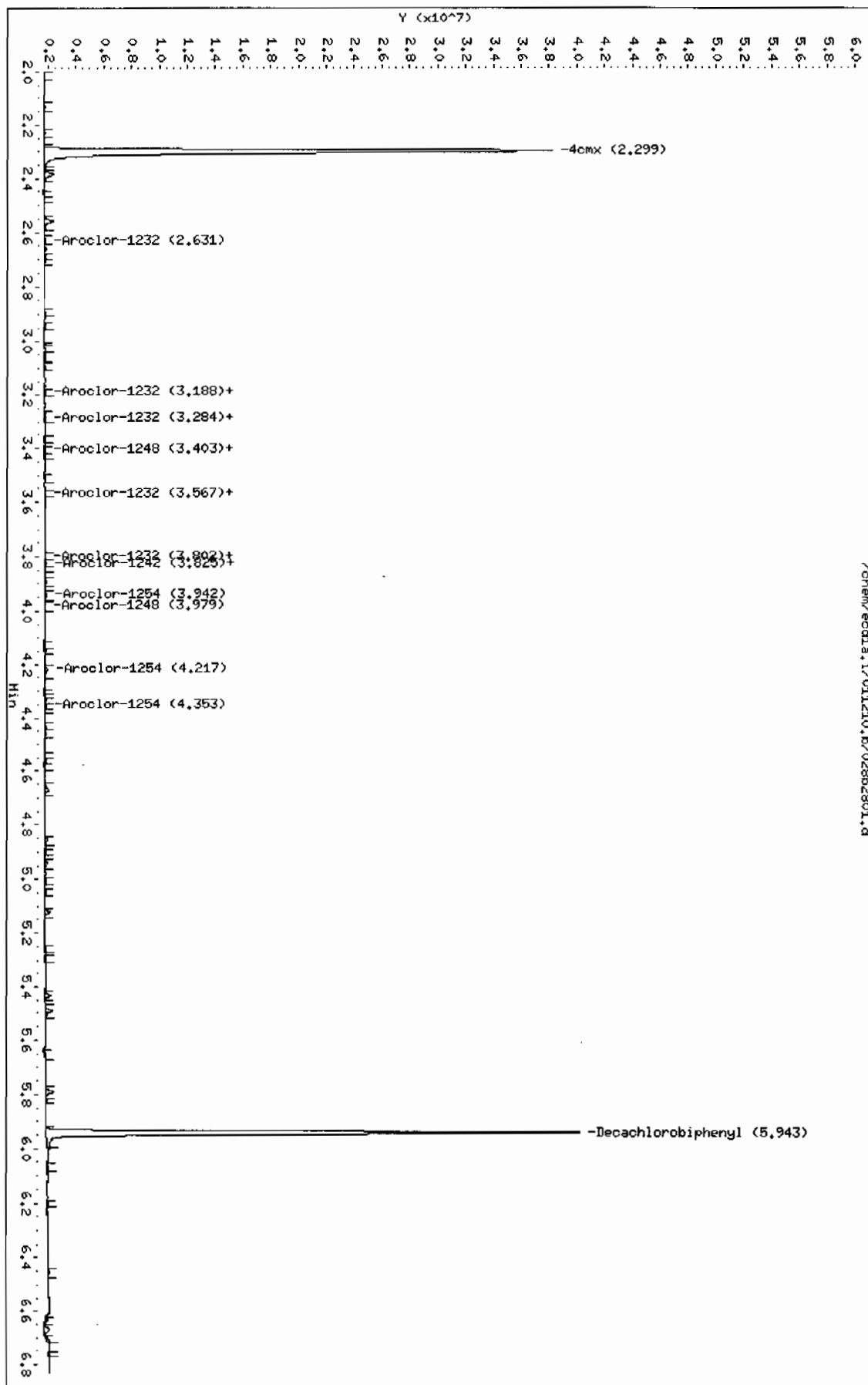
Column phase: CLP2

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

Page 1



STANDARDS DATA

Report Date: 13-Jan-2010 08:03

Calibration History

Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Start Cal Date: 14-DEC-2009 05:36
End Cal Date : 14-DEC-2009 12:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
14-DEC-2009 11:34	AR1268	/chem/ecdla.i/121409.b/040f4001.d
14-DEC-2009 09:28	AR1248	/chem/ecdla.i/121409.b/028f2801.d
14-DEC-2009 08:25	AR1242	/chem/ecdla.i/121409.b/022f2201.d
14-DEC-2009 07:22	AR1254	/chem/ecdla.i/121409.b/016f1601.d
14-DEC-2009 10:31	AR1660	/chem/ecdla.i/121409.b/034f3401.d
Cal Level: 2 , Cal Amount: 200.00000		
14-DEC-2009 11:44	AR1268	/chem/ecdla.i/121409.b/041f4101.d
14-DEC-2009 09:38	AR1248	/chem/ecdla.i/121409.b/029f2901.d
14-DEC-2009 08:35	AR1242	/chem/ecdla.i/121409.b/023f2301.d
14-DEC-2009 07:32	AR1254	/chem/ecdla.i/121409.b/017f1701.d
14-DEC-2009 10:41	AR1660	/chem/ecdla.i/121409.b/035f3501.d
Cal Level: 3 , Cal Amount: 500.00000		
14-DEC-2009 11:55	AR1268	/chem/ecdla.i/121409.b/042f4201.d
14-DEC-2009 09:49	AR1248	/chem/ecdla.i/121409.b/030f3001.d
14-DEC-2009 08:46	AR1242	/chem/ecdla.i/121409.b/024f2401.d
14-DEC-2009 07:43	AR1254	/chem/ecdla.i/121409.b/018f1801.d
14-DEC-2009 10:52	AR1660	/chem/ecdla.i/121409.b/036f3601.d
Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecdla.i/121409.b/046f4601.d
14-DEC-2009 09:59	AR1248	/chem/ecdla.i/121409.b/031f3101.d
14-DEC-2009 08:56	AR1242	/chem/ecdla.i/121409.b/025f2501.d
14-DEC-2009 07:53	AR1254	/chem/ecdla.i/121409.b/019f1901.d
14-DEC-2009 11:02	AR1660	/chem/ecdla.i/121409.b/037f3701.d
14-DEC-2009 12:06	AR1268	/chem/ecdla.i/121409.b/043f4301.d
14-DEC-2009 05:58	AR1262	/chem/ecdla.i/121409.b/008f0801.d
14-DEC-2009 05:47	AR1221	/chem/ecdla.i/121409.b/007f0701.d
14-DEC-2009 05:36	AR1232	/chem/ecdla.i/121409.b/006f0601.d
Cal Level: 5 , Cal Amount: 4000.00000		
14-DEC-2009 12:16	AR1268	/chem/ecdla.i/121409.b/044f4401.d
14-DEC-2009 10:10	AR1248	/chem/ecdla.i/121409.b/032f3201.d
14-DEC-2009 09:07	AR1242	/chem/ecdla.i/121409.b/026f2601.d
14-DEC-2009 08:04	AR1254	/chem/ecdla.i/121409.b/020f2001.d
14-DEC-2009 11:13	AR1660	/chem/ecdla.i/121409.b/038f3801.d

Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 15:41 AR1660	/chem/ecdl1a.i/011210.b/042f4201.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 13:27 AR1660	/chem/ecdl1a.i/011210.b/031f3101.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 11:03 AR1660	/chem/ecdl1a.i/011210.b/019f1901.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 09:33 AR1268	/chem/ecdl1a.i/011210.b/011f1101.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 09:23 AR1262	/chem/ecdl1a.i/011210.b/010f1001.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 09:12 AR1242	/chem/ecdl1a.i/011210.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 09:02 AR1660	/chem/ecdl1a.i/011210.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 08:51 AR1221	/chem/ecdl1a.i/011210.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 08:41 AR1232	/chem/ecdl1a.i/011210.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 08:30 AR1248	/chem/ecdl1a.i/011210.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000	
12-JAN-2010 08:09 AR1254	/chem/ecdl1a.i/011210.b/003f0301.d

Report Date: 13-Jan-2010 08:03

Calibration History

Method : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m
Start Cal Date: 11-DEC-2009 10:17
End Cal Date : 14-DEC-2009 12:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
14-DEC-2009 11:34	AR1268	/chem/ecdl1a.i/121409.b/040b4001.d
14-DEC-2009 09:28	AR1248	/chem/ecdl1a.i/121409.b/028b2801.d
14-DEC-2009 08:25	AR1242	/chem/ecdl1a.i/121409.b/022b2201.d
14-DEC-2009 07:22	AR1254	/chem/ecdl1a.i/121409.b/016b1601.d
14-DEC-2009 10:31	AR1660	/chem/ecdl1a.i/121409.b/034b3401.d

Cal Level: 2 , Cal Amount: 200.00000		
14-DEC-2009 11:44	AR1268	/chem/ecdl1a.i/121409.b/041b4101.d
14-DEC-2009 09:38	AR1248	/chem/ecdl1a.i/121409.b/029b2901.d
14-DEC-2009 08:35	AR1242	/chem/ecdl1a.i/121409.b/023b2301.d
14-DEC-2009 07:32	AR1254	/chem/ecdl1a.i/121409.b/017b1701.d
14-DEC-2009 10:41	AR1660	/chem/ecdl1a.i/121409.b/035b3501.d

Cal Level: 3 , Cal Amount: 500.00000		
14-DEC-2009 11:55	AR1268	/chem/ecdl1a.i/121409.b/042b4201.d
14-DEC-2009 09:49	AR1248	/chem/ecdl1a.i/121409.b/030b3001.d
14-DEC-2009 08:46	AR1242	/chem/ecdl1a.i/121409.b/024b2401.d
14-DEC-2009 07:43	AR1254	/chem/ecdl1a.i/121409.b/018b1801.d
14-DEC-2009 10:52	AR1660	/chem/ecdl1a.i/121409.b/036b3601.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecdl1a.i/121409.b/046b4601.d
14-DEC-2009 12:06	AR1268	/chem/ecdl1a.i/121409.b/043b4301.d
14-DEC-2009 05:58	AR1262	/chem/ecdl1a.i/121409.b/008b0801.d
14-DEC-2009 05:47	AR1221	/chem/ecdl1a.i/121409.b/007b0701.d
14-DEC-2009 05:36	AR1232	/chem/ecdl1a.i/121409.b/006b0601.d
14-DEC-2009 09:59	AR1248	/chem/ecdl1a.i/121409.b/031b3101.d
14-DEC-2009 08:56	AR1242	/chem/ecdl1a.i/121409.b/025b2501.d
14-DEC-2009 07:53	AR1254	/chem/ecdl1a.i/121409.b/019b1901.d
14-DEC-2009 11:02	AR1660	/chem/ecdl1a.i/121409.b/037b3701.d

Cal Level: 5 , Cal Amount: 4000.00000		
14-DEC-2009 12:16	AR1268	/chem/ecdl1a.i/121409.b/044b4401.d
14-DEC-2009 10:10	AR1248	/chem/ecdl1a.i/121409.b/032b3201.d
14-DEC-2009 09:07	AR1242	/chem/ecdl1a.i/121409.b/026b2601.d
14-DEC-2009 08:04	AR1254	/chem/ecdl1a.i/121409.b/020b2001.d
14-DEC-2009 11:13	AR1660	/chem/ecdl1a.i/121409.b/038b3801.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 15:41	AR1660	/chem/ecd1a.i/011210.b/042b4201.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 13:27	AR1660	/chem/ecd1a.i/011210.b/031b3101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 11:03	AR1660	/chem/ecd1a.i/011210.b/019b1901.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 09:33	AR1268	/chem/ecd1a.i/011210.b/011b1101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 09:23	AR1262	/chem/ecd1a.i/011210.b/010b1001.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 09:12	AR1242	/chem/ecd1a.i/011210.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 09:02	AR1660	/chem/ecd1a.i/011210.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 08:51	AR1221	/chem/ecd1a.i/011210.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 08:41	AR1232	/chem/ecd1a.i/011210.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 08:30	AR1248	/chem/ecd1a.i/011210.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
12-JAN-2010 08:09	AR1254	/chem/ecd1a.i/011210.b/003b0301.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 13-Jan-2010 07:57 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	2.424	2.394-2.454	1.387e+04
	2.702	2.672-2.732	1.010e+04
	2.794	2.764-2.824	1.176e+04
	2.832	2.802-2.862	6.599e+03
	3.043	3.013-3.073	8.673e+03
63 4,4-DDD	3.953	3.933-3.973	3.938e+05
64 4,4-DDE	3.603	3.583-3.623	4.795e+05
62 4,4-DDT	4.118	4.098-4.138	3.238e+05
2 Aroclor-1221	2.081	2.051-2.111	4.301e+03
	2.174	2.144-2.204	2.440e+03
	2.200	2.170-2.230	1.027e+04
3 Aroclor-1232	2.425	2.395-2.455	6.717e+03
	2.714	2.684-2.744	8.157e+03
	2.795	2.765-2.825	5.751e+03
	3.043	3.013-3.073	3.954e+03
	3.296	3.266-3.326	3.533e+03
4 Aroclor-1242	2.425	2.395-2.455	1.166e+04
	2.714	2.684-2.744	1.345e+04
	2.832	2.802-2.862	5.506e+03
	3.043	3.013-3.073	7.245e+03
	3.297	3.267-3.327	6.811e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/011210.b/ECD1-F-8082-121409.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.093	3.063-3.123	7.848e+03
	3.245	3.215-3.275	6.870e+03
	3.295	3.265-3.325	1.331e+04
	3.428	3.398-3.458	1.101e+04
	3.660	3.630-3.690	7.455e+03
6 Aroclor-1254	3.271	3.241-3.301	1.249e+04
	3.426	3.396-3.456	1.672e+04
	3.660	3.630-3.690	2.071e+04
	3.823	3.793-3.853	1.569e+04
	3.932	3.902-3.962	1.517e+04
7 Aroclor-1260	3.769	3.739-3.799	1.675e+04
	3.932	3.902-3.962	2.474e+04
	4.163	4.133-4.193	1.469e+04
	4.305	4.275-4.335	1.518e+04
	4.484	4.454-4.514	3.435e+04
8 Aroclor-1262	3.769	3.739-3.799	1.402e+04
	3.931	3.901-3.961	1.841e+04
	4.162	4.132-4.192	2.251e+04
	4.305	4.275-4.335	2.033e+04
	4.484	4.454-4.514	4.317e+04
9 Aroclor-1268	4.669	4.639-4.699	5.438e+04
	4.692	4.662-4.722	5.419e+04
	4.805	4.775-4.835	4.052e+04
	5.008	4.978-5.038	1.833e+04
	5.173	5.143-5.203	1.233e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.969	1.939-1.999	3.757e+05
\$ 12 Decachlorobiphenyl	5.283	5.253-5.313	3.175e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/011210.b/ECD1-B-8082-121409.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 13-Jan-2010 07:57 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	3.195	3.165-3.225	1.261e+04
	3.279	3.249-3.309	9.328e+03
	3.342	3.312-3.372	5.411e+03
	3.569	3.539-3.599	7.052e+03
	3.645	3.615-3.675	6.551e+03
62 4,4-DDT	4.670	4.650-4.690	2.436e+05
	4.139	4.119-4.159	3.580e+05
	4.483	4.463-4.503	2.893e+05
	2.495	2.465-2.525	3.640e+03
	2.590	2.560-2.620	2.329e+03
2 Aroclor-1221	2.631	2.601-2.661	8.119e+03
	2.631	2.601-2.661	6.156e+03
	3.196	3.166-3.226	6.302e+03
	3.280	3.250-3.310	4.701e+03
	3.570	3.540-3.600	3.243e+03
3 Aroclor-1232	3.803	3.773-3.833	3.151e+03
	3.197	3.167-3.227	1.059e+04
	3.279	3.249-3.309	8.054e+03
	3.570	3.540-3.600	5.962e+03
	3.803	3.773-3.833	6.057e+03
4 Aroclor-1242	3.831	3.801-3.861	6.701e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1.i/011210.b/ECD1-B-8082-121409.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.404	3.374-3.434	8.054e+03
	3.569	3.539-3.599	9.874e+03
	3.802	3.772-3.832	1.122e+04
	3.830	3.800-3.860	1.248e+04
	3.967	3.937-3.997	1.210e+04
6 Aroclor-1254	3.403	3.373-3.433	6.435e+03
	3.826	3.796-3.856	1.156e+04
	3.942	3.912-3.972	1.243e+04
	4.218	4.188-4.248	1.688e+04
	4.355	4.325-4.385	1.244e+04
7 Aroclor-1260	4.335	4.305-4.365	1.368e+04
	4.459	4.429-4.489	1.603e+04
	4.726	4.696-4.756	1.256e+04
	4.899	4.869-4.929	1.281e+04
	5.046	5.016-5.076	2.790e+04
8 Aroclor-1262	4.460	4.430-4.490	1.292e+04
	4.726	4.696-4.756	1.831e+04
	4.900	4.870-4.930	1.658e+04
	5.047	5.017-5.077	3.329e+04
	5.260	5.230-5.290	2.297e+04
9 Aroclor-1268	5.258	5.228-5.288	4.358e+04
	5.285	5.255-5.315	4.039e+04
	5.435	5.405-5.465	3.144e+04
	5.599	5.569-5.629	1.427e+04
	5.792	5.762-5.822	8.886e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.299	2.269-2.329	3.000e+05
\$ 12 Decachlorobiphenyl	5.945	5.915-5.975	2.332e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 14-DEC-2009 12:37
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/011210.b/ECD1-F-8082-121409.m
 Cal Date : 13-Jan-2010 07:57 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl1a.i/121409.b/040f4001.d
 Level 2: /chem/ecdl1a.i/121409.b/041f4101.d
 Level 3: /chem/ecdl1a.i/121409.b/042f4201.d
 Level 4: /chem/ecdl1a.i/121409.b/046f4601.d
 Level 5: /chem/ecdl1a.i/121409.b/044f4401.d

Compound	100.000	200.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	15975	14641	13829	13236	11653	13867	11.596
(2)	10801	10349	9832	9922	9584	10098	4.757
(3)	13242	12280	11732	11291	10240	11757	9.507
(4)	7178	6867	6609	6421	5920	6599	7.183
(5)	9710	9021	8649	8224	7763	8673	8.604
63 4,4-DDD	++++	++++	++++	393799	++++	393799	0.000
64 4,4-DDE	++++	++++	++++	479509	++++	479509	0.000
62 4,4-DDT	++++	++++	++++	323817	++++	323817	0.000
2 Aroclor-1221(1)	++++	++++	++++	4301	++++	4301	0.000
(2)	++++	++++	++++	2440	++++	2440	0.000
(3)	++++	++++	++++	10272	++++	10272	0.000
3 Aroclor-1232(1)	++++	++++	++++	6717	++++	6717	0.000
(2)	++++	++++	++++	8157	++++	8157	0.000
(3)	++++	++++	++++	5751	++++	5751	0.000
(4)	++++	++++	++++	3954	++++	3954	0.000
(5)	++++	++++	++++	3533	++++	3533	0.000
4 Aroclor-1242(1)	13692	12467	11522	10819	9798	11660	12.846
(2)	14782	14429	13236	12555	12263	13453	8.301
(3)	6076	5890	5423	5191	4949	5506	8.563
(4)	8395	7578	7079	6747	6426	7245	10.645
(5)	7587	7189	6604	6378	6296	6811	8.178
5 Aroclor-1248(1)	9070	8103	7743	7247	7078	7848	10.119
(2)	7785	7181	6827	6444	6114	6870	9.456
(3)	15108	13267	13037	12915	12225	13310	8.094
(4)	12682	11331	10815	10392	9852	11015	9.799
(5)	8605	7806	7405	7124	6336	7455	11.244

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 14-DEC-2009 12:37
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd1a.i/011210.b/ECD1-F-8082-121409.m
 Cal Date : 13-Jan-2010 07:57 yip00818
 Curve Type : Average

	100.000	200.000	500.000	1000.000	4000.000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
6 Aroclor-1254(1)	14281	12975	12313	11911	10947	12485	9.963
(2)	18803	17181	16666	15949	15010	16722	8.494
(3)	22492	20906	20786	20326	19059	20714	5.957
(4)	16753	15627	15809	15513	14770	15694	4.535
(5)	16595	15169	15433	15075	13591	15172	7.071
7 Aroclor-1260(1)	18145	17177	16842	16407	15189	16752	6.464
(2)	26410	24871	24973	24571	22887	24743	5.081
(3)	16099	14386	14855	14472	13625	14687	6.171
(4)	16517	14719	15311	15032	14343	15185	5.451
(5)	35425	33953	34899	34487	32987	34350	2.719
8 Aroclor-1262(1)	++++	++++	++++	14019	++++	14019	0.000
(2)	++++	++++	++++	18406	++++	18406	0.000
(3)	++++	++++	++++	22511	++++	22511	0.000
(4)	++++	++++	++++	20327	++++	20327	0.000
(5)	++++	++++	++++	43170	++++	43170	0.000
9 Aroclor-1268(1)	56914	55996	53872	52565	52528	54375	3.680
(2)	57500	55307	54092	52376	51697	54194	4.300
(3)	43006	41368	40020	38976	39247	40524	4.120
(4)	19620	18932	18085	17425	17569	18326	5.094
(5)	128350	126812	122798	118830	119599	123278	3.436
M 10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
11 4cmx	367897	454677	359986	359846	335942	375669	12.182
12 Decachlorobiphenyl	316645	388263	307193	296602	278999	317541	13.206

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 14-DEC-2009 12:37
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m
 Cal Date : 13-Jan-2010 07:57 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl1a.i/121409.b/040b4001.d
 Level 2: /chem/ecdl1a.i/121409.b/041b4101.d
 Level 3: /chem/ecdl1a.i/121409.b/042b4201.d
 Level 4: /chem/ecdl1a.i/121409.b/046b4601.d
 Level 5: /chem/ecdl1a.i/121409.b/044b4401.d

Compound	100.000	200.000	500.000	1000.000	4000.000	RRR	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14281	12734	12848	12156	11039	12612	9.333
(2)	10954	9913	9256	8806	7710	9328	13.003
(3)	6310	5679	5380	5089	4598	5411	11.852
(4)	8214	7430	6981	6696	5938	7052	12.003
(5)	7754	6843	6481	6115	5561	6551	12.561
62 4,4-DDT	++++	++++	++++	243613	++++	243613	0.000
63 4,4-DDE	++++	++++	++++	357996	++++	357996	0.000
64 4,4-DDD	++++	++++	++++	289343	++++	289343	0.000
2 Aroclor-1221(1)	++++	++++	++++	3640	++++	3640	0.000
(2)	++++	++++	++++	2329	++++	2329	0.000
(3)	++++	++++	++++	8119	++++	8119	0.000
3 Aroclor-1232(1)	++++	++++	++++	6156	++++	6156	0.000
(2)	++++	++++	++++	6302	++++	6302	0.000
(3)	++++	++++	++++	4701	++++	4701	0.000
(4)	++++	++++	++++	3243	++++	3243	0.000
(5)	++++	++++	++++	3151	++++	3151	0.000
4 Aroclor-1242(1)	12348	11309	9989	9755	9542	10589	11.338
(2)	9730	8628	7875	7358	6677	8054	14.627
(3)	7163	6326	5763	5452	5107	5962	13.534
(4)	7183	6468	5900	5548	5185	6057	12.997
(5)	7820	7123	6589	6229	5746	6701	11.977
5 Aroclor-1248(1)	9914	8542	7972	7289	6553	8054	15.880
(2)	11996	10356	9798	9046	8173	9874	14.605
(3)	13306	11756	11119	10365	9555	11220	12.723
(4)	14720	13121	12480	11577	10516	12483	12.732
(5)	14361	12633	11977	11210	10342	12104	12.596

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 14-DEC-2009 12:37
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m
 Cal Date : 13-Jan-2010 07:57 yip00818
 Curve Type : Average

Compound	100.000 Level 1	200.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	7857	6938	6317	5878	5185	6435	15.850
(2)	13759	12316	11389	10708	9625	11559	13.615
(3)	14674	13172	12243	11576	10492	12431	12.786
(4)	19102	17554	16808	16165	14771	16880	9.533
(5)	14276	12708	12612	11843	10739	12435	10.425
7 Aroclor-1260(1)	15678	14232	13583	13177	11731	13680	10.567
(2)	18142	16574	16035	15527	13867	16029	9.709
(3)	14298	13064	12524	12030	10903	12564	9.989
(4)	14593	13310	12766	12230	11150	12810	9.970
(5)	30553	28626	28257	27276	24777	27898	7.569
8 Aroclor-1262(1)	++++	++++	++++	12922	++++	12922	0.000
(2)	++++	++++	++++	18311	++++	18311	0.000
(3)	++++	++++	++++	16579	++++	16579	0.000
(4)	++++	++++	++++	33287	++++	33287	0.000
(5)	++++	++++	++++	22972	++++	22972	0.000
9 Aroclor-1268(1)	48327	45655	43354	41349	39206	43578	8.193
(2)	44968	41865	39872	38249	36983	40388	7.790
(3)	35350	32573	30975	29630	28674	31440	8.372
(4)	16410	14977	13894	13214	12876	14274	10.077
(5)	96769	92419	87897	84047	83161	88859	6.460
M 10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
11 4cmx	307069	367145	286931	282899	256086	300026	13.893
12 Decachlorobiphenyl	248884	286011	224119	212175	194946	233227	15.194

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.: 10-1131
 Instrument ID: ECD1A Calibration Date: 01/12/10 Time: 0902
 Lab File ID: 008F0801 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 1031 1113
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	13866.870	13485.876	0.01	-2.7	15.0
(2)	10097.726	10723.493	0.01	6.2	15.0
(3)	11757.020	11460.019	0.01	-2.5	15.0
(4)	6599.010	6856.400	0.01	3.9	15.0
(5)	8673.402	8914.101	0.01	2.8	15.0
Aroclor-1260	16752.150	17526.056	0.01	4.6	15.0
(2)	24742.603	26588.446	0.01	7.5	15.0
(3)	14687.346	15728.241	0.01	7.1	15.0
(4)	15184.529	16552.699	0.01	9.0	15.0
(5)	34350.443	37633.318	0.01	9.6	15.0
4cmx	357482.34	370322.48	0.01	3.6	15.0
Decachlorobiphenyl	302009.99	307865.06	0.01	1.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1131
 Instrument ID: ECD1A Calibration Date: 01/12/10 Time: 0902
 Lab File ID: 008B0801 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 1031 1113
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12611.539	12467.792	0.01	-1.1	15.0
(2)	9327.875	8419.719	0.01	-9.7	15.0
(3)	5411.316	5218.830	0.01	-3.6	15.0
(4)	7051.879	6829.739	0.01	-3.2	15.0
(5)	6550.733	6310.818	0.01	-3.7	15.0
Aroclor-1260	13680.027	12787.808	0.01	-6.5	15.0
(2)	16029.019	15544.463	0.01	-3.0	15.0
(3)	12563.933	11912.459	0.01	-5.2	15.0
(4)	12810.076	12233.996	0.01	-4.5	15.0
(5)	27897.674	27319.408	0.01	-2.1	15.0
4cmx	285339.98	275724.17	0.01	-3.4	15.0
Decachlorobiphenyl	221786.62	214390.79	0.01	-3.3	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.: 10-1131
 Instrument ID: ECD1A Calibration Date: 01/12/10 Time: 1103
 Lab File ID: 019F1901 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 1031 1113
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	13866.870	13310.670	0.01	-4.0	15.0
(2)	10097.726	10242.811	0.01	1.4	15.0
(3)	11757.020	11285.268	0.01	-4.0	15.0
(4)	6599.010	6765.072	0.01	2.5	15.0
(5)	8673.402	8738.943	0.01	0.8	15.0
Aroclor-1260	16752.150	17036.620	0.01	1.7	15.0
(2)	24742.603	25904.092	0.01	4.7	15.0
(3)	14687.346	15393.580	0.01	4.8	15.0
(4)	15184.529	16083.121	0.01	5.9	15.0
(5)	34350.443	36752.784	0.01	7.0	15.0
4cmx	357482.34	363951.48	0.01	1.8	15.0
Decachlorobiphenyl	302009.99	302177.43	0.01	0.0	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.: 10-1131
 Instrument ID: ECD1A Calibration Date: 01/12/10 Time: 1103
 Lab File ID: 019B1901 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 1031 1113
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12611.539	12578.862	0.01	-0.2	15.0
(2)	9327.875	8317.700	0.01	-10.8	15.0
(3)	5411.316	5139.316	0.01	-5.0	15.0
(4)	7051.879	6728.760	0.01	-4.6	15.0
(5)	6550.733	6209.908	0.01	-5.2	15.0
Aroclor-1260	13680.027	12600.351	0.01	-7.9	15.0
(2)	16029.019	15305.012	0.01	-4.5	15.0
(3)	12563.933	11700.179	0.01	-6.9	15.0
(4)	12810.076	12037.919	0.01	-6.0	15.0
(5)	27897.674	26844.001	0.01	-3.8	15.0
4cmx	285339.98	272373.06	0.01	-4.5	15.0
Decachlorobiphenyl	221786.62	209659.97	0.01	-5.5	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.: 10-1131
 Instrument ID: ECD1A Calibration Date: 01/12/10 Time: 1327
 Lab File ID: 031F3101 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 1031 1113
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	13866.870	13975.254	0.01	0.8	15.0
(2)	10097.726	11118.675	0.01	10.1	15.0
(3)	11757.020	11874.482	0.01	1.0	15.0
(4)	6599.010	7065.924	0.01	7.1	15.0
(5)	8673.402	9128.367	0.01	5.2	15.0
Aroclor-1260	16752.150	17811.470	0.01	6.3	15.0
(2)	24742.603	27097.503	0.01	9.5	15.0
(3)	14687.346	16042.757	0.01	9.2	15.0
(4)	15184.529	16822.381	0.01	10.8	15.0
(5)	34350.443	38270.168	0.01	11.4	15.0
4cmx	357482.34	384339.66	0.01	7.5	15.0
Decachlorobiphenyl	302009.99	312466.13	0.01	3.5	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.: 10-1131
 Instrument ID: ECD1A Calibration Date: 01/12/10 Time: 1327
 Lab File ID: 031B3101 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 1031 1113
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12611.539	13074.814	0.01	3.7	15.0
(2)	9327.875	8777.811	0.01	-5.9	15.0
(3)	5411.316	5413.636	0.01	0.0	15.0
(4)	7051.879	6892.457	0.01	-2.3	15.0
(5)	6550.733	6412.928	0.01	-2.1	15.0
Aroclor-1260	13680.027	13295.972	0.01	-2.8	15.0
(2)	16029.019	16138.030	0.01	0.7	15.0
(3)	12563.933	12348.659	0.01	-1.7	15.0
(4)	12810.076	12683.793	0.01	-1.0	15.0
(5)	27897.674	28029.483	0.01	0.5	15.0
4cmx	285339.98	286277.34	0.01	0.3	15.0
Decachlorobiphenyl	221786.62	219603.59	0.01	-1.0	15.0

FORM VII PEST

Data File: /chem/ecdla.i/011210.b/003f0301.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/003f0301.d
Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
Inj Date : 12-JAN-2010 08:09
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR091216-54
Misc Info :
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpelpl

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6	Aroclor-1254			CAS #: 11097-69-1		
3.271	3.271	0.000	12037540 1000.00	964 80.00- 120.00	100.00	
3.426	3.426	0.000	16646305 1000.00	995 118.29- 158.29	138.29	
3.660	3.660	0.000	21499049 1000.00	1040 158.60- 198.60	178.60	
3.823	3.823	0.000	16291323 1000.00	1040 115.34- 155.34	135.34	
3.932	3.932	0.000	15561834 1000.00	1020 109.28- 149.28	129.28	
Average of Peak Amounts =			1.01e+03			

Data File: /chem/ecda.i/011210.b/003f0301.d

Date: 12-Jan-2010 08:09

Client ID: AR125401

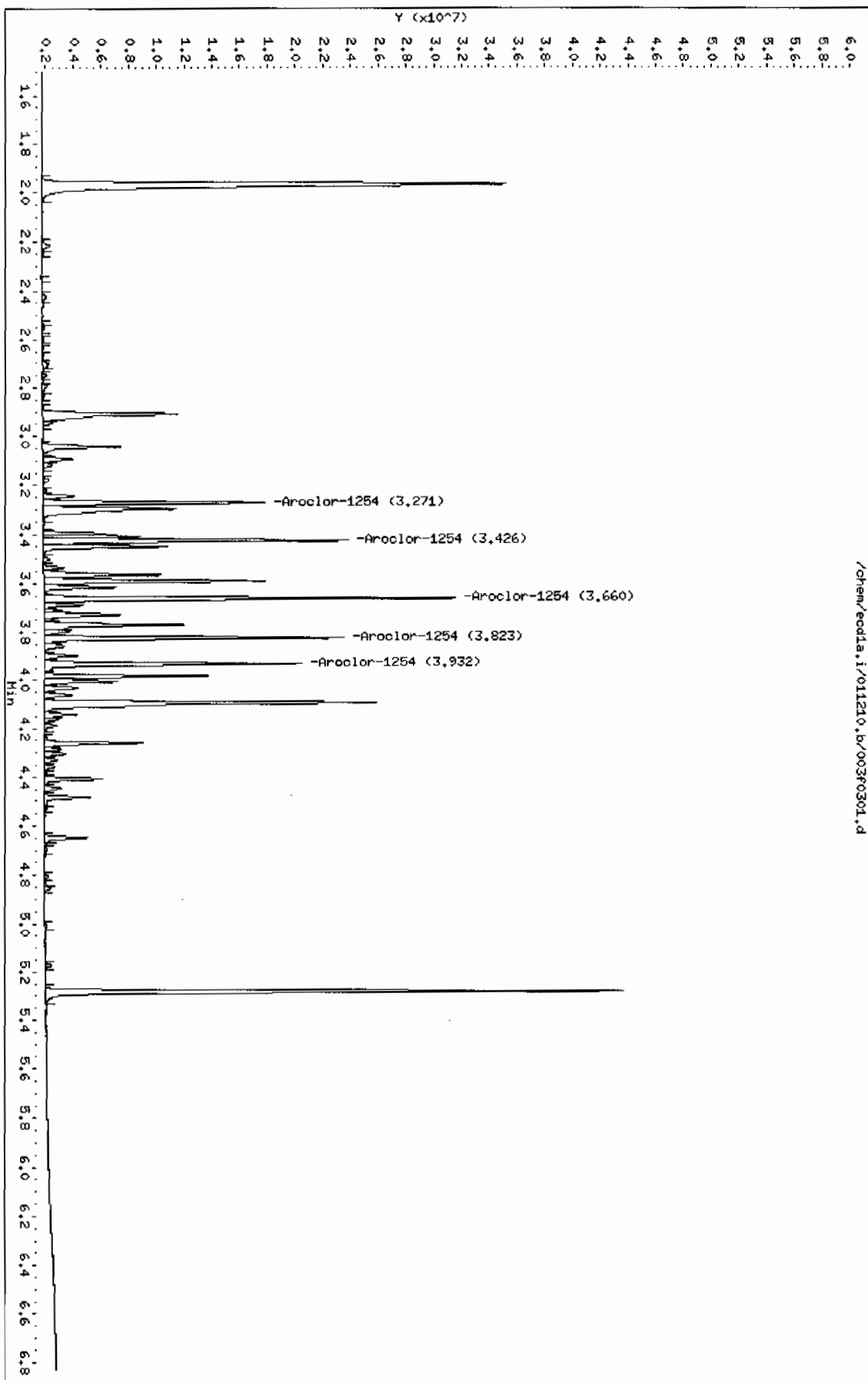
Sample Info: 1HAR091216-54

Page 1

Column phase: CLP1

Operator: YS1
Column diameter: 0.25

/chem/ecda.i/011210.b/003f0301.d



Data File: /chem/ecdl1a.i/011210.b/003b0301.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/011210.b/003b0301.d
Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
Inj Date : 12-JAN-2010 08:09
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR091216-54
Misc Info :
Comment :
Method : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
3.403	3.403	0.000	5736608 1000.00	891 80.00- 120.00	100.00	
3.826	3.826	0.000	10322492 1000.00	893 159.94- 199.94	179.94	
3.942	3.942	0.000	11402181 1000.00	917 178.76- 218.76	198.76	
4.218	4.218	0.000	15866334 1000.00	940 256.58- 296.58	276.58	
4.355	4.355	0.000	11536355 1000.00	928 181.10- 221.10	201.10	
Average of Peak Amounts =			914			

Data File: /chem/ecdda.i/011210.b/003b0301.d

Date: 12-JUN-2010 08:09

Client ID: AR125401

Sample Info: 1MAR091216-54

Column phase: CLP2

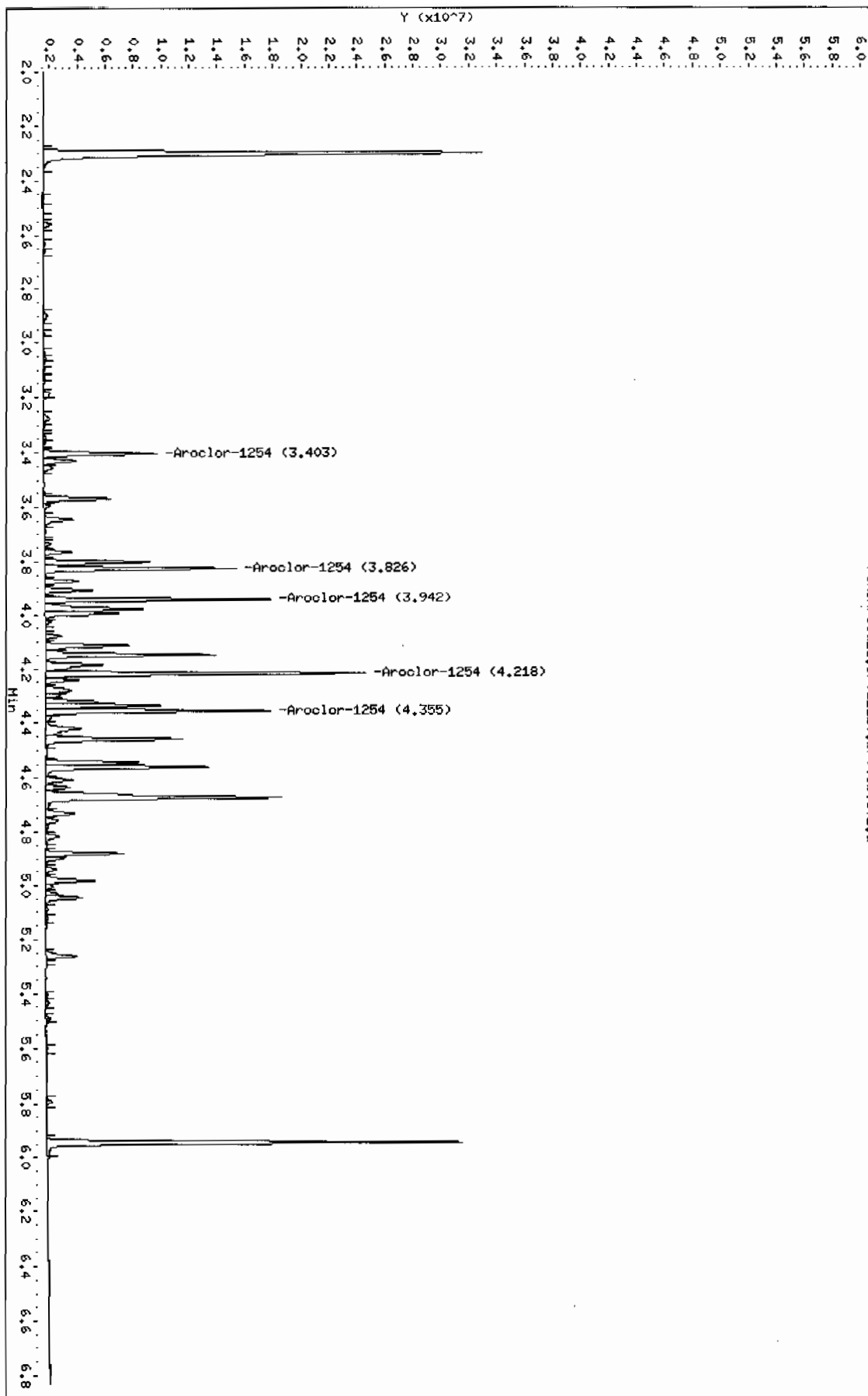
Page 1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

/chem/ecdda.i/011210.b/003b0301.d



Data File: /chem/ecdla.i/011210.b/005f0501.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 12-JAN-2010 08:30

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m

Meth Date : 23-Jan-2010 10:45 yip00818

Quant Type: ESTD

Cal Date : 14-DEC-2009 11:34

Cal File: 040f4001.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
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5 Aroclor-1248

CAS #: 12672-29-6

3.093	3.093	0.000	7744080	1000.00	987 80.00- 120.00	100.00
3.245	3.245	0.000	6860341	1000.00	998 68.59- 108.59	88.59
3.295	3.295	0.000	13763918	1000.00	1030 157.73- 197.73	177.73
3.428	3.428	0.000	10860022	1000.00	986 120.24- 160.24	140.24
3.660	3.660	0.000	6934632	1000.00	930 69.55- 109.55	89.55

Average of Peak Amounts =

987

Data File: /chem/ecda.i/011210.b/005f0501.d

Date: 12-JAN-2010 08:30

Client ID: AR124801

Sample Info: 1MAR091217-48

Column phase: CLP1

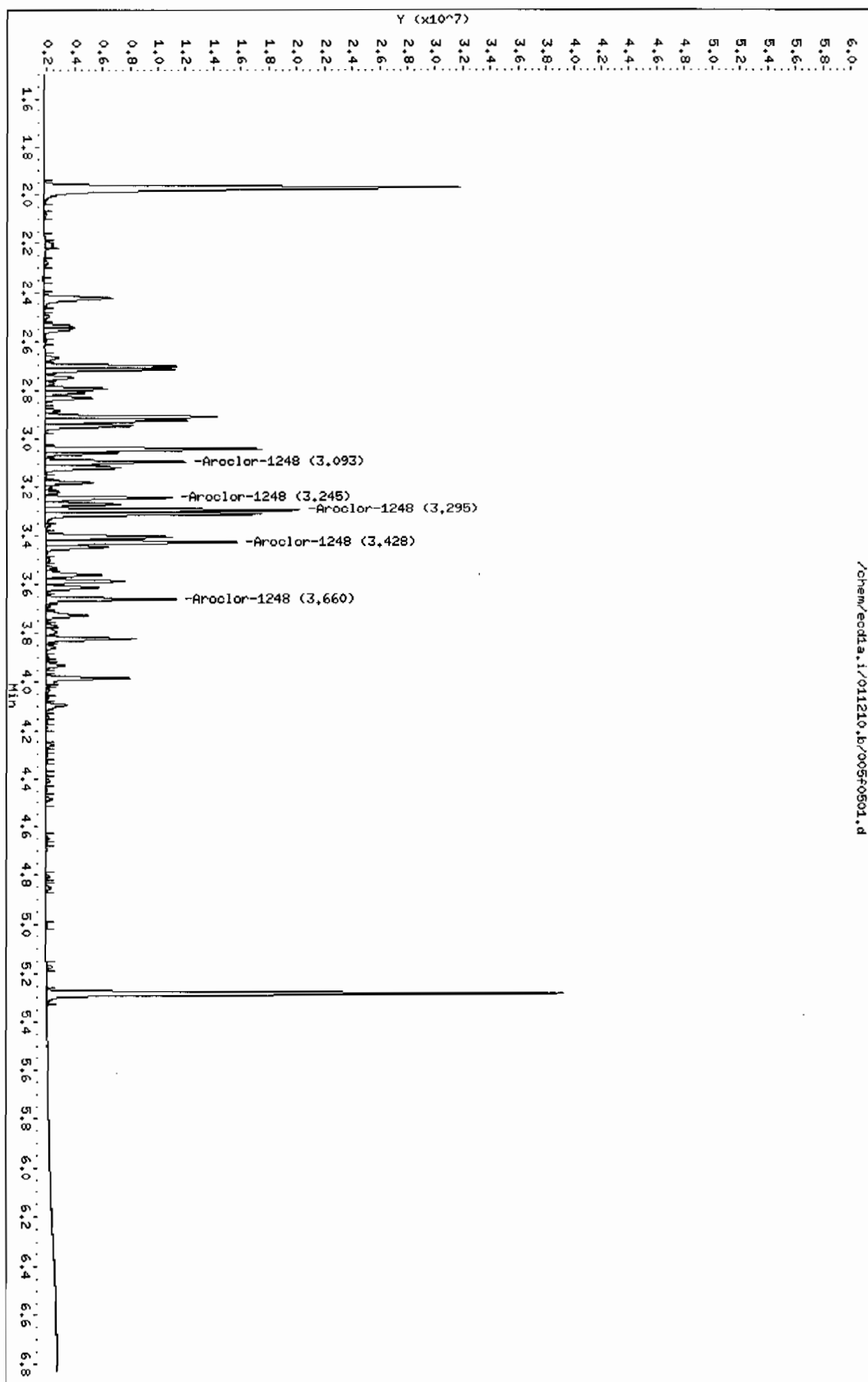
Page 1

Instrument: ecda.i

Operator: YS1

Column diameter: 0.25

/chem/ecda.i/011210.b/005f0501.d



Data File: /chem/ecdla.i/011210.b/005b0501.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/005b0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 12-JAN-2010 08:30
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR091217-48
Misc Info :
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-B-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.404	3.404	0.000	7175864 1000.00	891 80.00-	120.00	100.00
3.569	3.569	0.000	8975948 1000.00	909 105.09-	145.09	125.09
3.802	3.802	0.000	10195525 1000.00	909 122.08-	162.08	142.08
3.830	3.830	0.000	11296712 1000.00	905 137.43-	177.43	157.43
3.967	3.967	0.000	10909666 1000.00	901 132.03-	172.03	152.03
Average of Peak Amounts =				903		

Data File: /chem/ecdl.a.i/011210.b/005b0501.d

Date: 12-JAN-2010 09:30

Client ID: AR124801

Sample Info: 1MAR091217-48

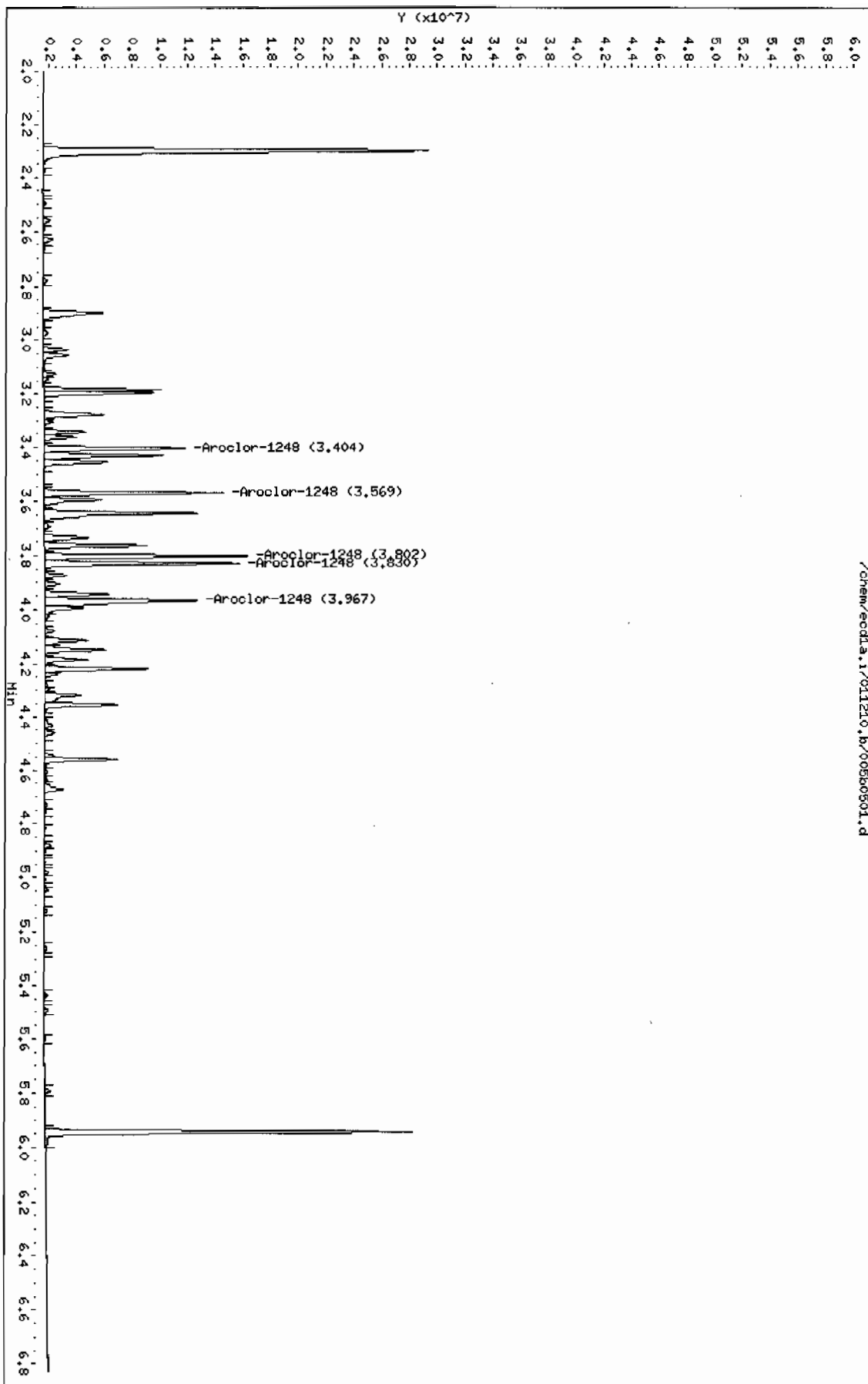
Column phase: CLP2

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/011210.b/005b0501.d



Data File: /chem/ecdla.i/011210.b/006f0601.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/006f0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 12-JAN-2010 08:41
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-32
Misc Info :
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1pl

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
3	2.425	2.425	0.000	6216352	1000.00	925 80.00- 120.00 100.00
2.714	2.714	0.000	8111036	1000.00	994 110.48- 150.48 130.48	
2.795	2.795	0.000	5312389	1000.00	924 65.46- 105.46 85.46	
3.043	3.043	0.000	3927160	1000.00	993 43.17- 83.17 63.17	
3.296	3.296	0.000	3710292	1000.00	1050 39.69- 79.69 59.69	
Average of Peak Amounts =				977		

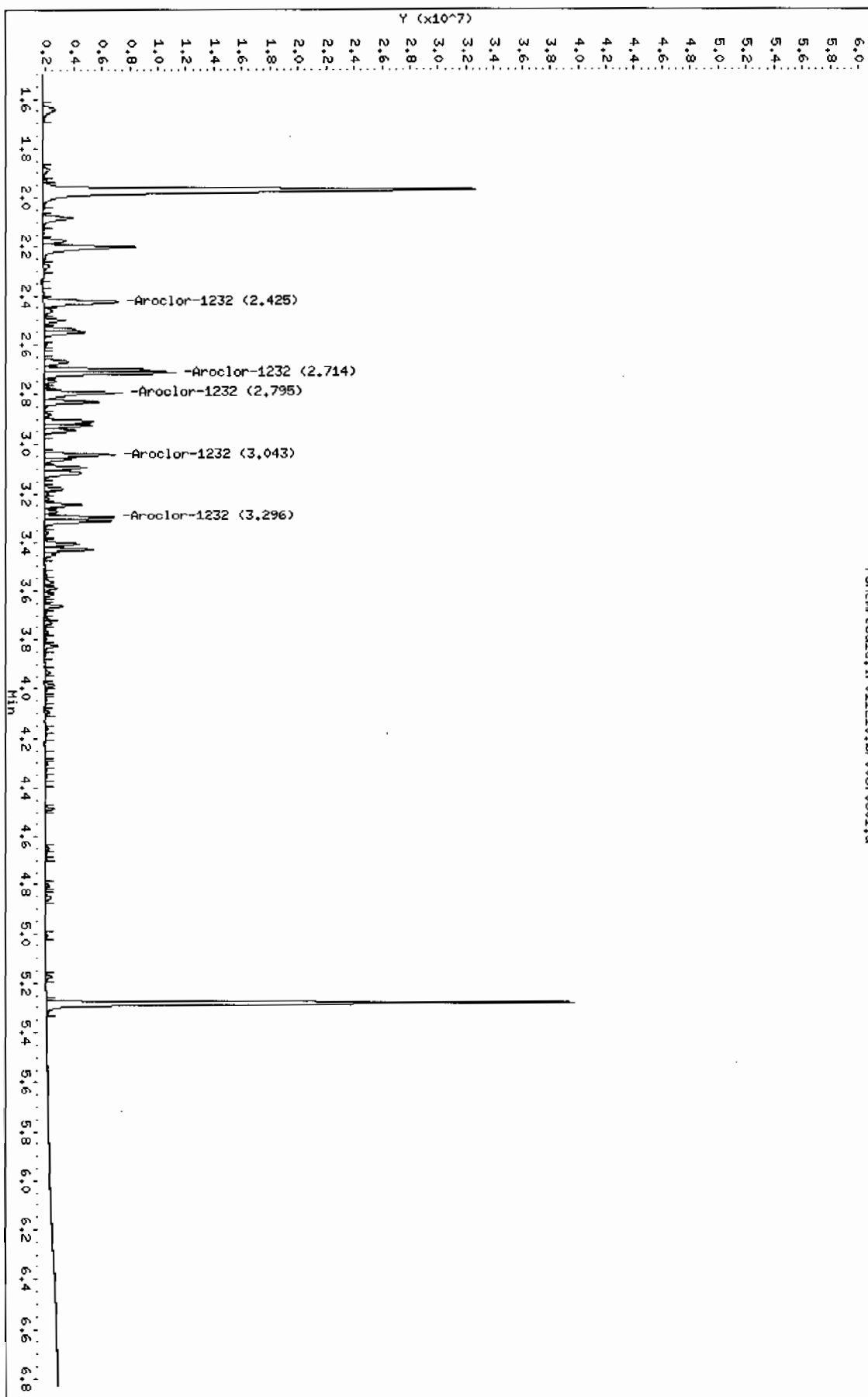
Data File: /chem/ecdl1.i/011210.b/006f0601.d
Date: 12-JAN-2010 08:41
Client ID: AR123201
Sample Info: 14MR100104-32

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Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/011210.b/006f0601.d



Data File: /chem/ecdla.i/011210.b/006b0601.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/006b0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 12-JAN-2010 08:41
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-32
Misc Info :
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-B-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1pl

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.631	2.631	0.000	5454142 1000.00	886	80.00- 120.00	100.00
3.196	3.196	0.000	5887460 1000.00	934	87.94- 127.94	107.94
3.280	3.280	0.000	4094285 1000.00	871	55.07- 95.07	75.07
3.570	3.570	0.000	3125770 1000.00	964	37.31- 77.31	57.31
3.803	3.803	0.000	3007054 1000.00	954	35.13- 75.13	55.13
Average of Peak Amounts =				922		

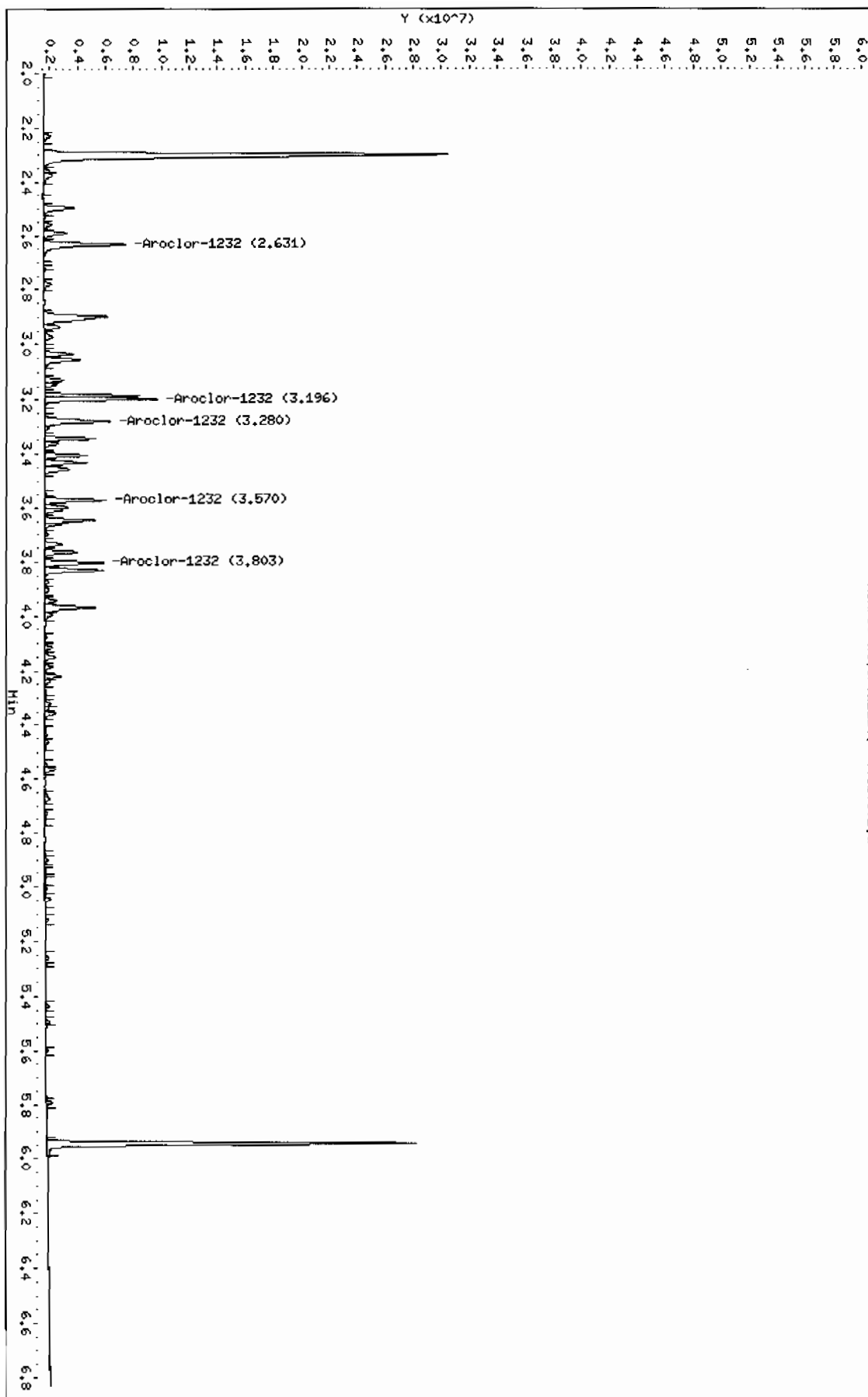
Data File: /chem/ecdl.a.i/011210.b/006b0601.d
Date: 12-JAN-2010 08:41
Client ID: AR123201
Sample Info: IWR100104-32

Column phase: CLP2

Instrument: ecdl.a.i
Operator: VSL
Column diameter: 0.25

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/chem/ecdl.a.i/011210.b/006b0601.d



Data File: /chem/ecdla.i/011210.b/007f0701.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/007f0701.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 12-JAN-2010 08:51
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-21
Misc Info :
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.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
==	=====	=====	=====	=====	=====	=====
2 Aroclor-1221			CAS #: 11104-28-2			
2.081	2.081	0.000	3977249 1000.00	925	80.00- 120.00	100.00
2.174	2.174	0.000	2228631 1000.00	913	36.03- 76.03	56.03
2.200	2.200	0.000	9517642 1000.00	926	219.30- 259.30	239.30
Average of Peak Amounts =			921			

Data File: /chem/eodla.i/011210.b/0070701.d
Date : 12-JAN-2010 08:51
Client ID: AR122101
Sample Info: 14RR100104-21

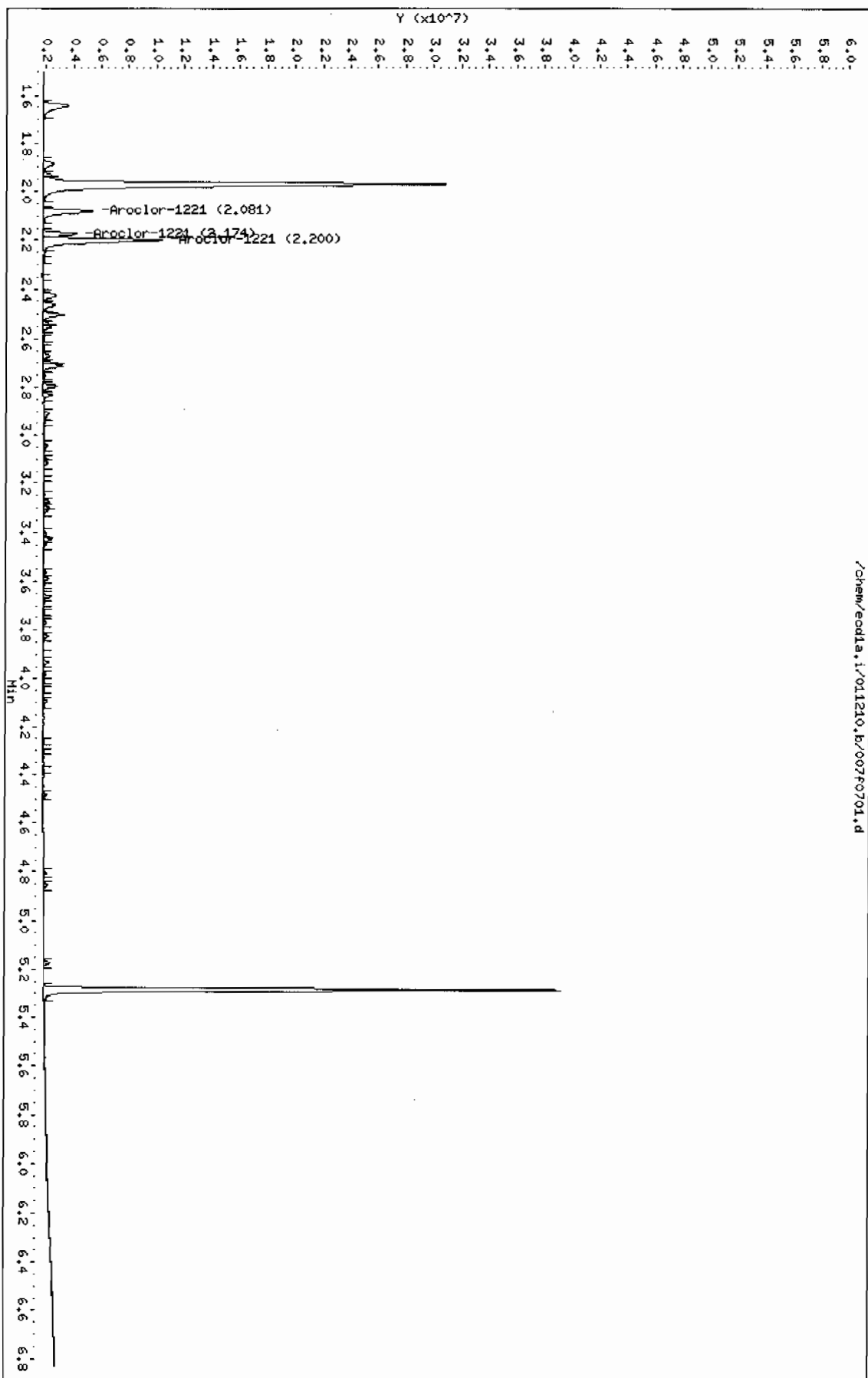
Instrument: eodla.i

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Column phase: CLP1

Operator: YSL
Column diameter: 0.25

/chem/eodla.i/011210.b/0070701.d



Data File: /chem/ecdla.i/011210.b/007b0701.d
Report Date: 23-Jan-2010 10:45

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/007b0701.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 12-JAN-2010 08:51
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-21
Misc Info :
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-B-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1p1

AMOUNTS

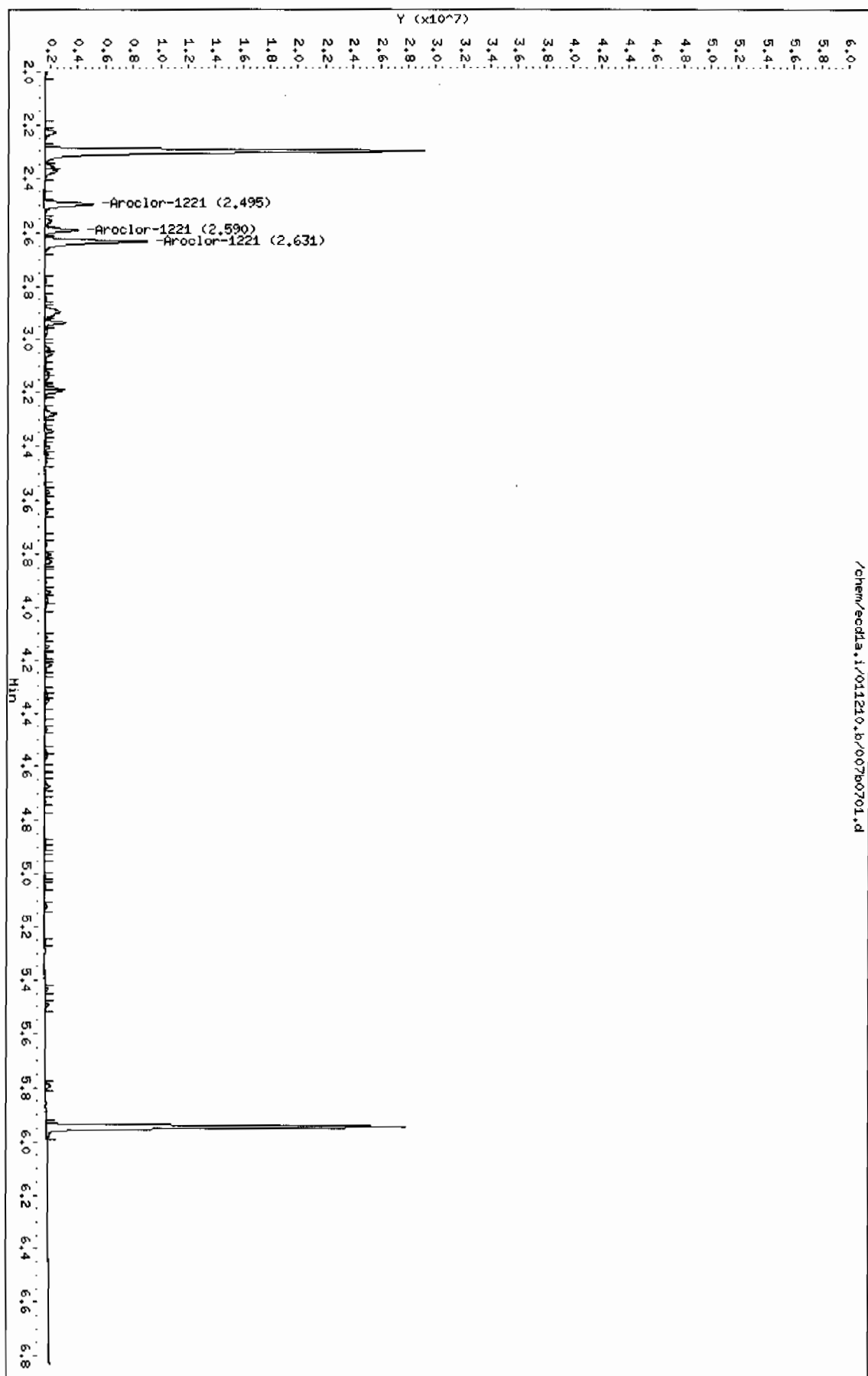
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.495	2.495	0.000	3505686	1000.00	963 80.00- 120.00	100.00
2.590	2.590	0.000	2164005	1000.00	929 41.73- 81.73	61.73
2.631	2.631	0.000	7278336	1000.00	896 187.62- 227.62	207.62
Average of Peak Amounts =				930		

Data File: /chem/ecod1a.i/011210.b/007b0701.d
Date: 12-JAN-2010 08:51
Client ID: AR122101
Sample Info: 11MR100104-21

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Column phase: CLP2

Instrument: ecod1a.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdla.i/011210.b/008f0801.d
 Report Date: 23-Jan-2010 10:46

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/008f0801.d
 Lab Smp Id: WAR100104-60 01 Client Smp ID: AR166001
 Inj Date : 12-JAN-2010 09:02
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |WAR100104-60 01
 Misc Info :
 Comment :
 Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
 Meth Date : 23-Jan-2010 10:46 yip00818 Quant Type: ESTD
 Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
 Als bottle: 8 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			
1.969	1.969	0.000		37032248 100.000	104	80.00- 120.00		100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.283	5.283	0.000		30786506 100.000	102	80.00- 120.00		100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.424	2.424	0.000		13485876 1000.00	972	80.00- 120.00		100.00
2.702	2.702	0.000		10723493 1000.00	1060	59.52- 99.52		79.52
2.794	2.794	0.000		11460019 1000.00	975	64.98- 104.98		84.98
2.832	2.832	0.000		6856400 1000.00	1040	30.84- 70.84		50.84
3.043	3.043	0.000		8914101 1000.00	1030	46.10- 86.10		66.10
Average of Peak Amounts =					1.02e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
3.769	3.769	0.000		17526056 1000.00	1050	80.00- 120.00		100.00
3.932	3.932	0.000		26588446 1000.00	1070	131.71- 171.71		151.71
4.163	4.163	0.000		15728241 1000.00	1070	69.74- 109.74		89.74
4.305	4.305	0.000		16552699 1000.00	1090	74.45- 114.45		94.45
4.484	4.484	0.000		37633318 1000.00	1100	194.73- 234.73		214.73
Average of Peak Amounts =					1.08e+03			

Data File: /chem/ecdda.i/011210.b/008f0801.d

Date: 12-JAN-2010 09:02

Client ID: AR166001

Sample Info: 11AR100104-60 01

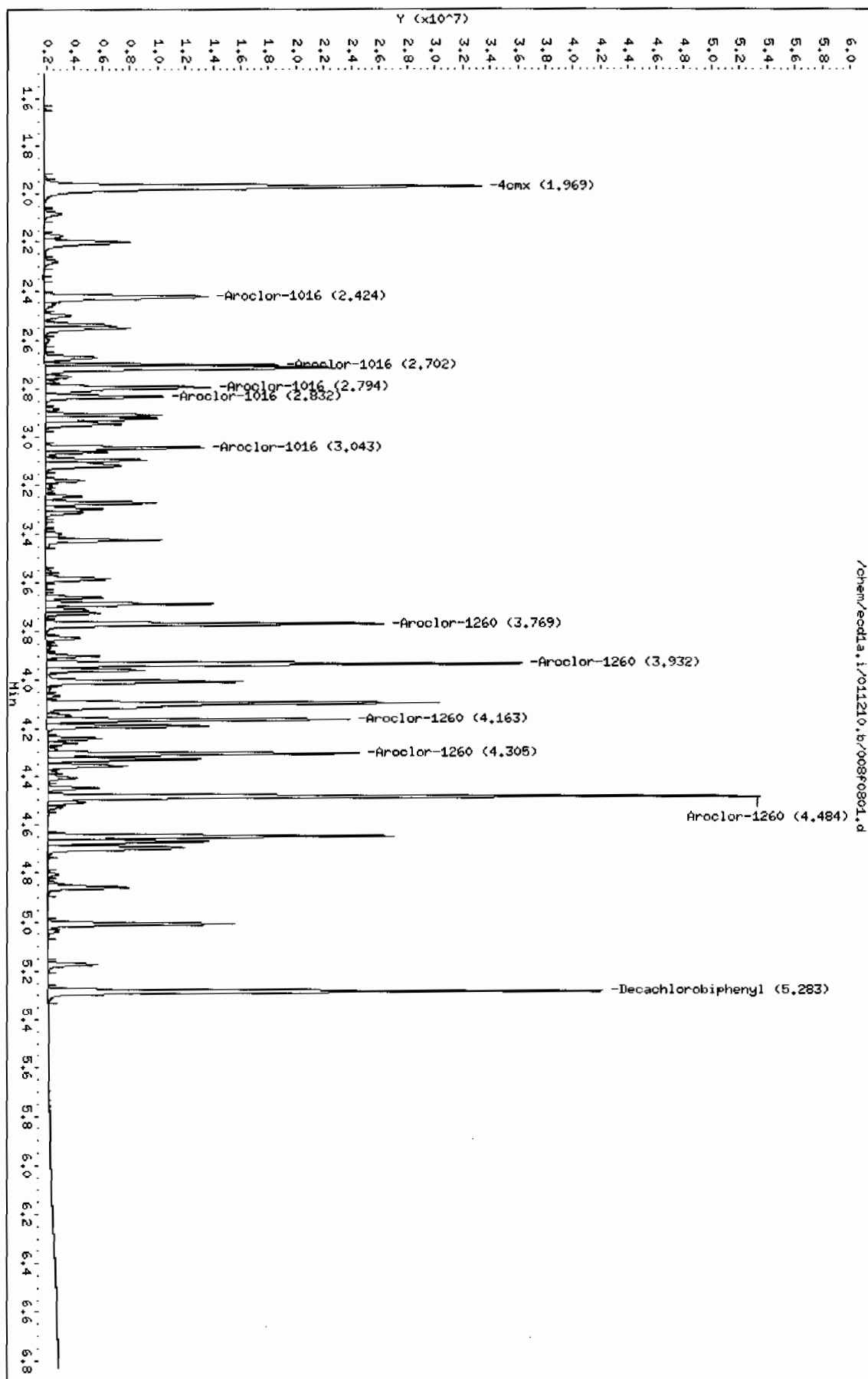
Page 1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

Column phase: CLP1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/011210.b/008b0801.d
Lab Smp Id: WAR100104-60 01 Client Smp ID: AR166001
Inj Date : 12-JAN-2010 09:02
Operator : YSl Inst ID: ecd1a.i
Smp Info : |WAR100104-60 01
Misc Info :
Comment :
Method : /chem/ecd1a.i/011210.b/ECD1-B-8082-121409.m
Meth Date : 23-Jan-2010 10:45 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
Als bottle: 8 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	
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx					CAS #: 877-09-8			
2.299	2.299	0.000	27572417	100.000	96.6	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.945	5.945	0.000	21439079	100.000	96.7	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.195	3.195	0.000	12467792	1000.00	989	80.00-	120.00	100.00
3.279	3.279	0.000	8419719	1000.00	903	47.53-	87.53	67.53
3.342	3.342	0.000	5218830	1000.00	964	21.86-	61.86	41.86
3.569	3.569	0.000	6829739	1000.00	968	34.78-	74.78	54.78
3.645	3.645	0.000	6310818	1000.00	963	30.62-	70.62	50.62
Average of Peak Amounts =					958			

7 Aroclor-1260					CAS #: 11096-82-5			
4.335	4.335	0.000	12787808	1000.00	935	80.00-	120.00	100.00
4.459	4.459	0.000	15544463	1000.00	970	101.56-	141.56	121.56
4.726	4.726	0.000	11912459	1000.00	948	73.15-	113.15	93.15
4.899	4.899	0.000	12233996	1000.00	955	75.67-	115.67	95.67
5.046	5.046	0.000	27319408	1000.00	979	193.64-	233.64	213.64
Average of Peak Amounts =					957			

Data File: /chem/ecdl1a.i/011210.b/0080801.d

Date: 12-JAN-2010 09:02

Client ID: 6R166004

Sample Info: 1MAR100104-60 01

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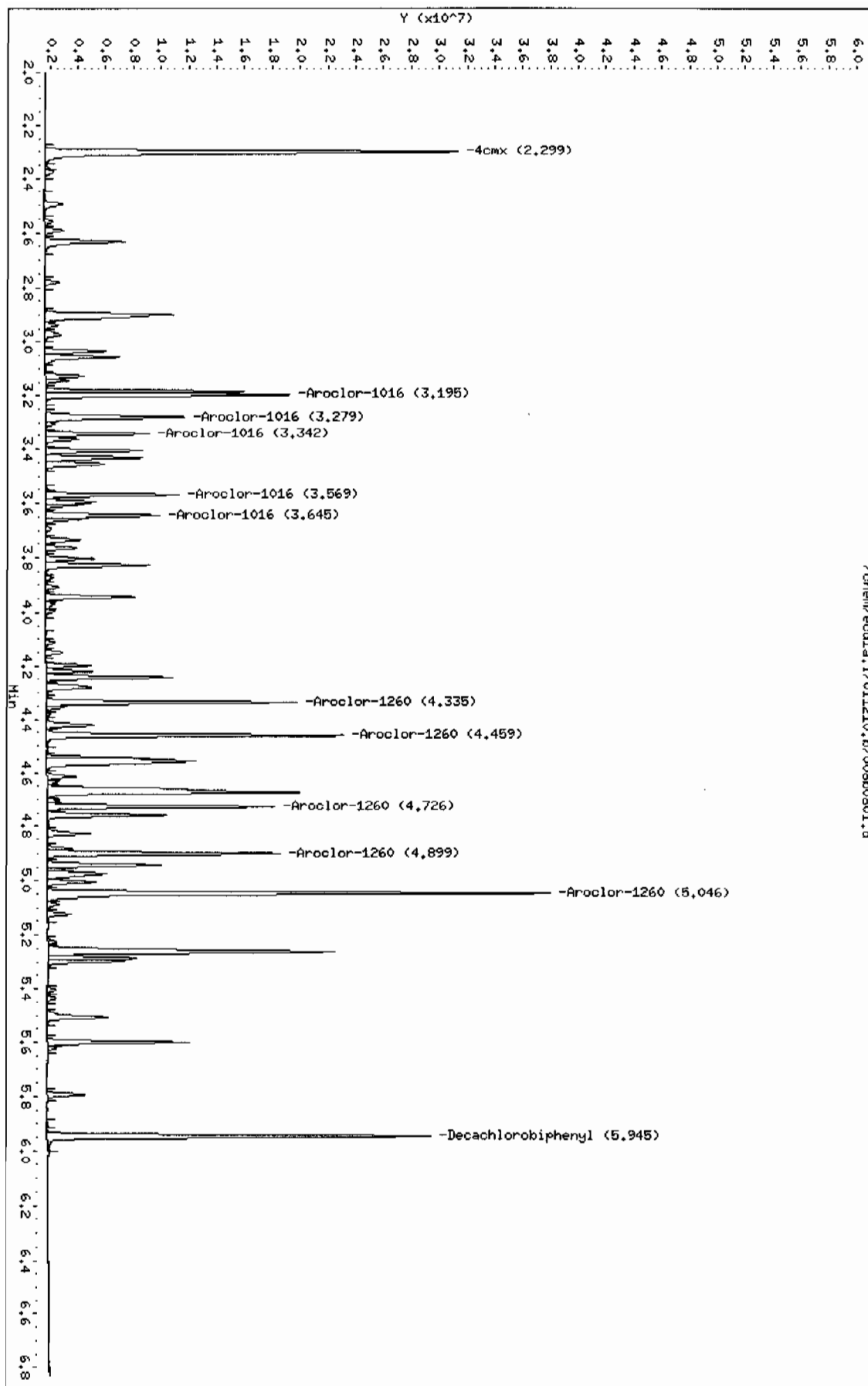
Instrument: ecdl1a.i

Operator: YSA

Column diameter: 0.25

Column phase: CLP2

/chem/ecdl1a.i/011210.b/0080801.d



Data File: /chem/ecdla.i/011210.b/009f0901.d
Report Date: 23-Jan-2010 10:46

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/009f0901.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 12-JAN-2010 09:12

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m

Meth Date : 23-Jan-2010 10:46 yip00818

Quant Type: ESTD

Cal Date : 14-DEC-2009 11:34

Cal File: 040f4001.d

Als bottle: 9

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.425	2.425	0.000	11081560	950	80.00- 120.00	100.00
2.714	2.714	0.000	14162445	1050	107.80- 147.80	127.80
2.832	2.832	0.000	5547704	1010	30.06- 70.06	50.06
3.043	3.043	0.000	7181018	991	44.80- 84.80	64.80
3.297	3.297	0.000	7294617	1070	45.83- 85.83	65.83

Average of Peak Amounts = 1.01e+03

Data File: /chem/ecdl.a.i/011210.b/009f0901.d

Date: 12-JAN-2010 09:12

Client ID: BR124201

Sample Info: 1U4R091217-42

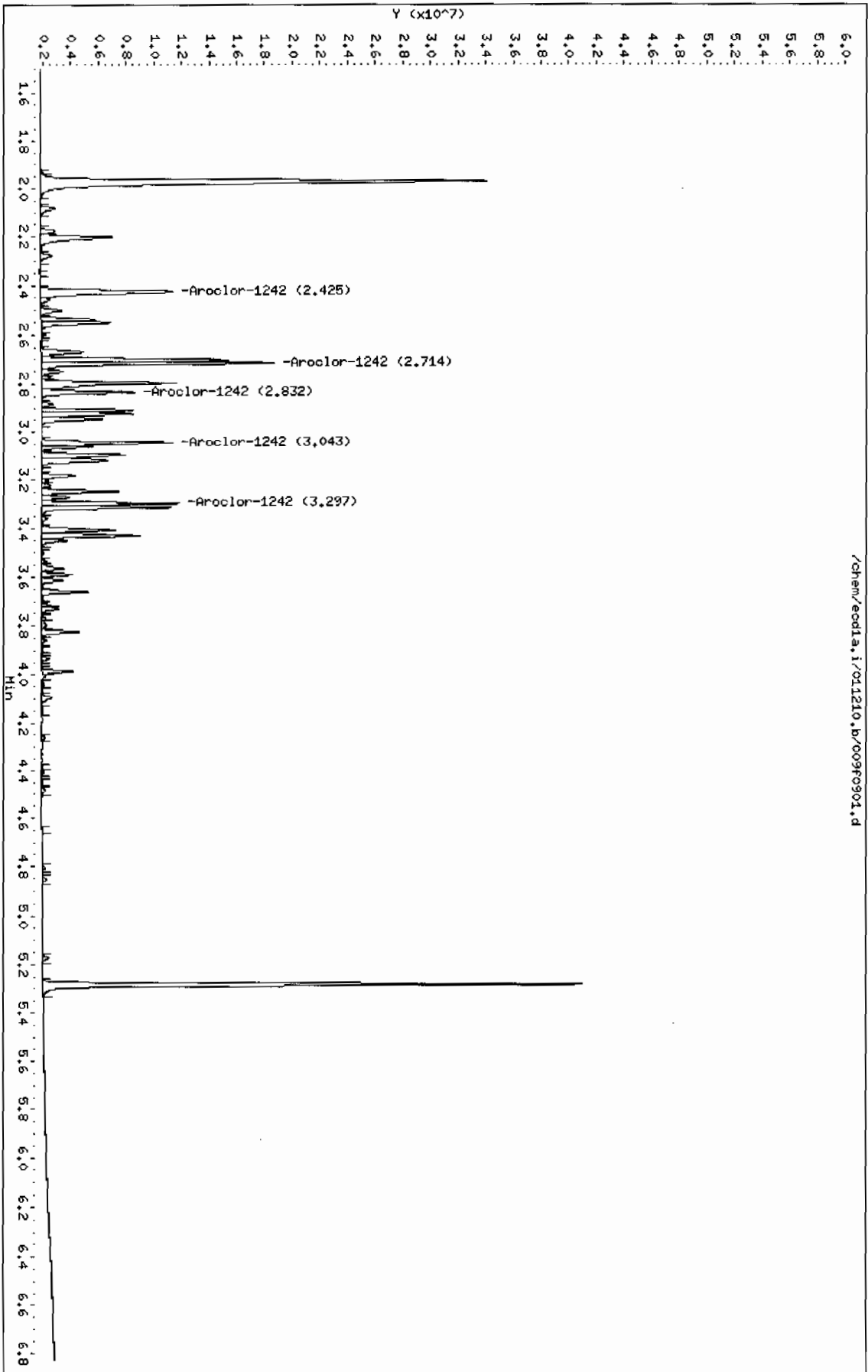
Column phase: CLP1

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Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdl1a.i/011210.b/009b0901.d
Report Date: 23-Jan-2010 10:46

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/011210.b/009b0901.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 12-JAN-2010 09:12

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m

Meth Date : 23-Jan-2010 10:46 yip00818

Quant Type: ESTD

Cal Date : 14-DEC-2009 12:16

Cal File: 044b4401.d

Als bottle: 9

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4 Aroclor-1242					CAS #: 53469-21-9	
3.197	3.197	0.000	10071737 1000.00	951	80.00- 120.00	100.00
3.279	3.279	0.000	6944935 1000.00	862	48.95- 88.95	68.95
3.570	3.570	0.000	5469377 1000.00	917	34.30- 74.30	54.30
3.803	3.803	0.000	5657077 1000.00	934	36.17- 76.17	56.17
3.831	3.831	0.000	6282902 1000.00	938	42.38- 82.38	62.38
Average of Peak Amounts =				920		

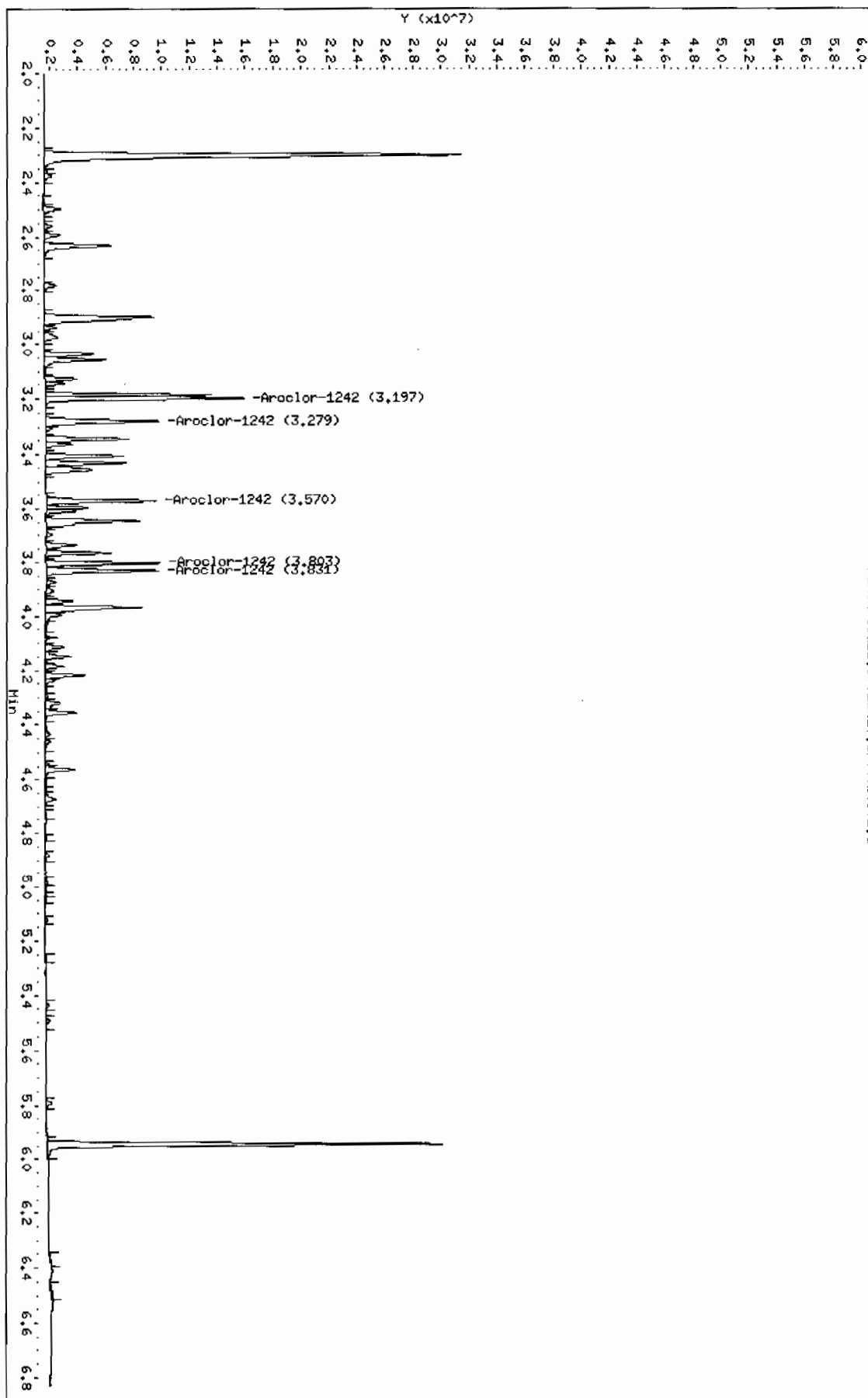
Data File: /chem/ecdda.i/011210.b/009b0901.d
Date : 12-JAN-2010 09:12
Client ID: RR124201
Sample Info: 1MAR091217-42

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Column phase: CLP2

Operator: YS1
Column diameter: 0.25

/chem/ecdda.i/011210.b/009b0901.d



Data File: /chem/ecdl1a.i/011210.b/019f1901.d
Report Date: 23-Jan-2010 10:48

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/011210.b/019f1901.d

Lab Smp Id: WAR100104-60 02

Client Smp ID: AR166002

Inj Date : 12-JAN-2010 11:03

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-60 02

Misc Info :

Comment :

Method : /chem/ecdl1a.i/011210.b/ECD1-F-8082-121409.m

Meth Date : 23-Jan-2010 10:48 yip00818

Quant Type: ESTD

Cal Date : 14-DEC-2009 11:34

Cal File: 040f4001.d

Als bottle: 19

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		
1.967	1.969	-0.002	36395148 100.000	102	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.280	5.283	-0.003	30217743 100.000	100	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.423	2.424	-0.001	13310670 1000.00	960	80.00- 120.00	100.00
2.699	2.702	-0.003	10242811 1000.00	1010	56.95- 96.95	76.95
2.792	2.794	-0.002	11285268 1000.00	960	64.78- 104.78	84.78
2.829	2.832	-0.003	6765072 1000.00	1020	30.82- 70.82	50.82
3.040	3.043	-0.003	8738943 1000.00	1010	45.65- 85.65	65.65
Average of Peak Amounts =				993		

7 Aroclor-1260				CAS #: 11096-82-5		
3.766	3.769	-0.003	17036620 1000.00	1020	80.00- 120.00	100.00
3.929	3.932	-0.003	25904092 1000.00	1050	132.05- 172.05	152.05
4.159	4.163	-0.004	15393580 1000.00	1050	70.36- 110.36	90.36
4.302	4.305	-0.003	16083121 1000.00	1060	74.40- 114.40	94.40
4.482	4.484	-0.002	36752784 1000.00	1070	195.73- 235.73	215.73
Average of Peak Amounts =				1.05e+03		

Data File: /chem/ecdt.a.i/011210.b/019f1901.d

Date: 12-JAN-2010 11:03

Client ID: AR166002

Sample Info: 11AR100104-60 02

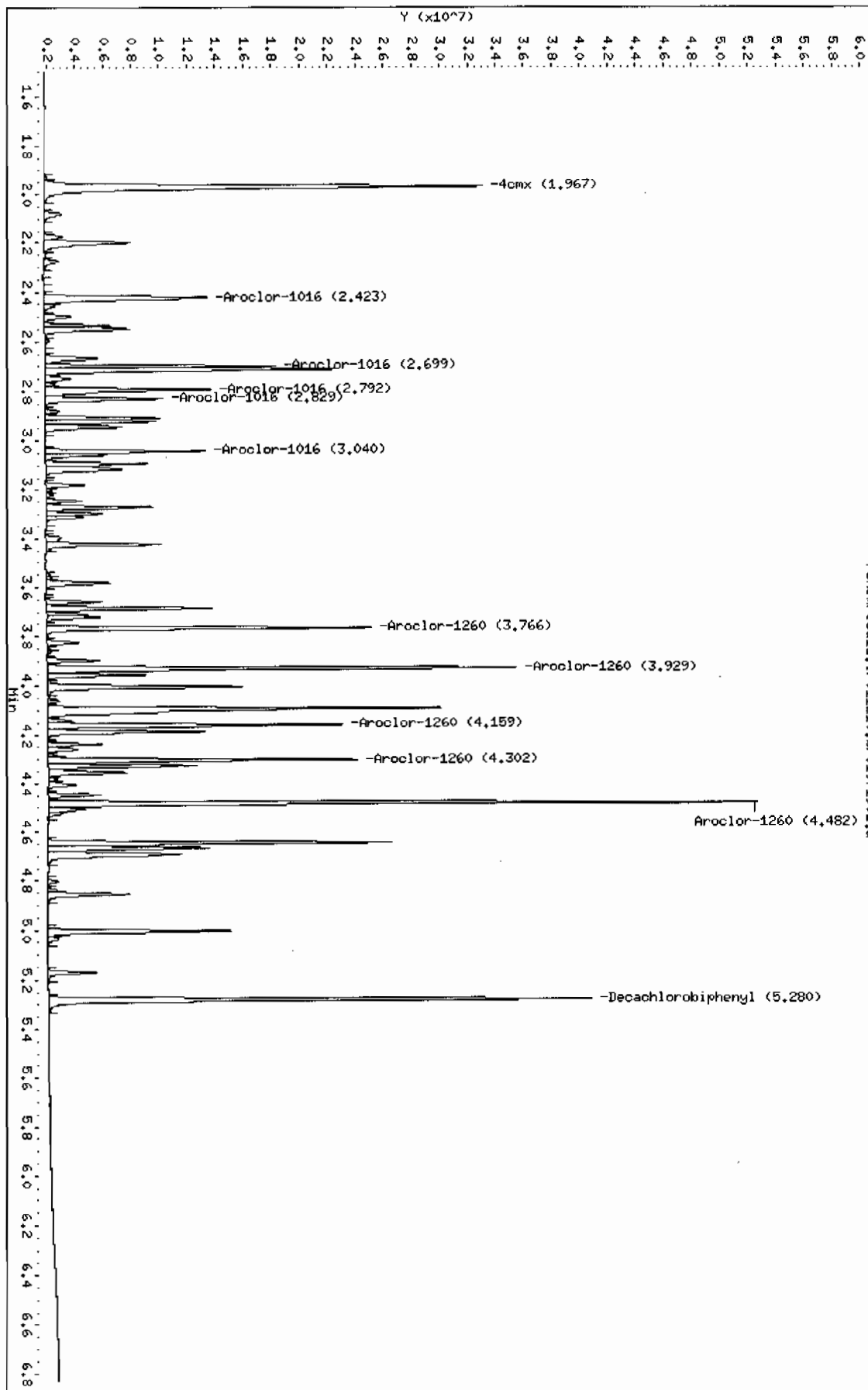
Column phase: CLP1

Instrument: ecdt.a.i

Operator: YSI

Column diameter: 0.25

/chem/ecdt.a.i/011210.b/019f1901.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/019b1901.d

Lab Smp Id: WAR100104-60 02

Client Smp ID: AR166002

Inj Date : 12-JAN-2010 11:03

Operator : YSl

Inst ID: ecdla.i

Smp Info : |WAR100104-60 02

Misc Info :

Comment :

Method : /chem/ecdla.i/011210.b/ECD1-B-8082-121409.m

Meth Date : 23-Jan-2010 10:48 yip00818

Quant Type: ESTD

Cal Date : 14-DEC-2009 12:16

Cal File: 044b4401.d

Als bottle: 19

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
==	=====	=====	=====	=====	=====	=====	=====	=====
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
2.298	2.299	-0.001	27237306	100.000	95.4	80.00-	120.00	100.00
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.943	5.945	-0.002	20965997	100.000	94.5	80.00-	120.00	100.00
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
3.194	3.195	-0.001	12578862	1000.00	997	80.00-	120.00	100.00
3.278	3.279	-0.001	8317700	1000.00	892	46.12-	86.12	66.12
3.341	3.342	-0.001	5139316	1000.00	950	20.86-	60.86	40.86
3.568	3.569	-0.001	6728760	1000.00	954	33.49-	73.49	53.49
3.644	3.645	-0.001	6209908	1000.00	948	29.37-	69.37	49.37
Average of Peak Amounts =					948			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
4.334	4.335	-0.001	12600351	1000.00	921	80.00-	120.00	100.00
4.459	4.459	0.000	15305012	1000.00	955	101.46-	141.46	121.46
4.724	4.726	-0.002	11700179	1000.00	931	72.86-	112.86	92.86
4.898	4.899	-0.001	12037919	1000.00	940	75.54-	115.54	95.54
5.044	5.046	-0.002	26844001	1000.00	962	193.04-	233.04	213.04
Average of Peak Amounts =					942			

Data File: /chem/ecda.i/011210.b/019b1901.d

Date: 12-JAN-2010 11:03

Client ID: AR160002

Sample Info: IWR100104-60 02

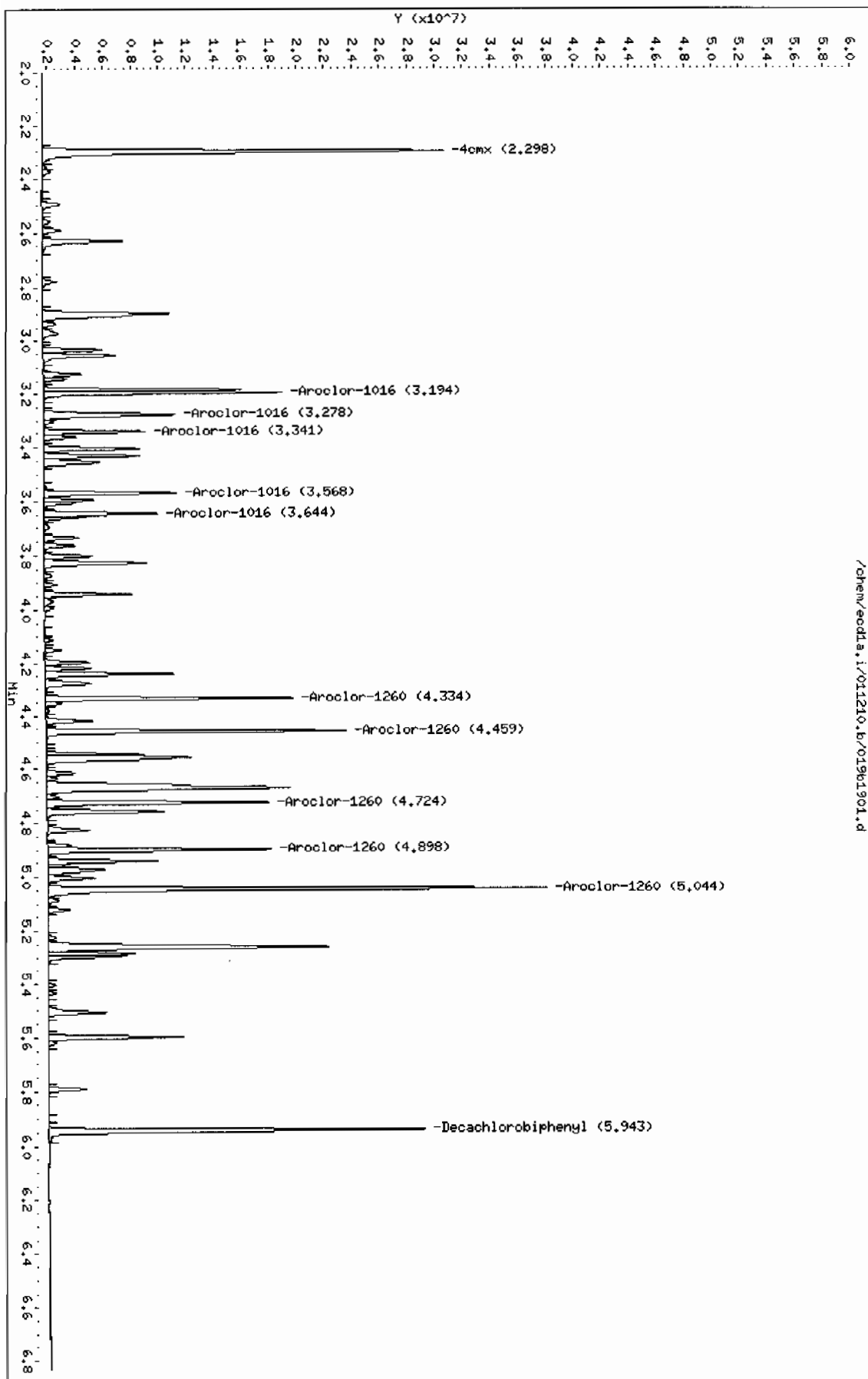
Column phase: CLP2

Instrument: ecda.i

Operator: YSA

Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/011210.b/031f3101.d

Lab Smp Id: WAR100104-60 03

Client Smp ID: AR166003

Inj Date : 12-JAN-2010 13:27

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100104-60 03

Misc Info :

Comment :

Method : /chem/ecdl1a.i/011210.b/ECD1-F-8082-121409.m

Meth Date : 23-Jan-2010 10:51 yip00818 Quant Type: ESTD

Cal Date : 14-DEC-2009 11:34

Cal File: 040f4001.d

Als bottle: 31

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
1.968	1.969	-0.001	38433966 100.000	108	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.280	5.283	-0.003	31246613 100.000	103	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.424	2.424	0.000	13975254 1000.00	1010	80.00- 120.00	100.00
2.701	2.702	-0.001	11118675 1000.00	1100	59.56- 99.56	79.56
2.792	2.794	-0.002	11874482 1000.00	1010	64.97- 104.97	84.97
2.830	2.832	-0.002	7065924 1000.00	1070	30.56- 70.56	50.56
3.041	3.043	-0.002	9128367 1000.00	1050	45.32- 85.32	65.32
Average of Peak Amounts =			1.05e+03			

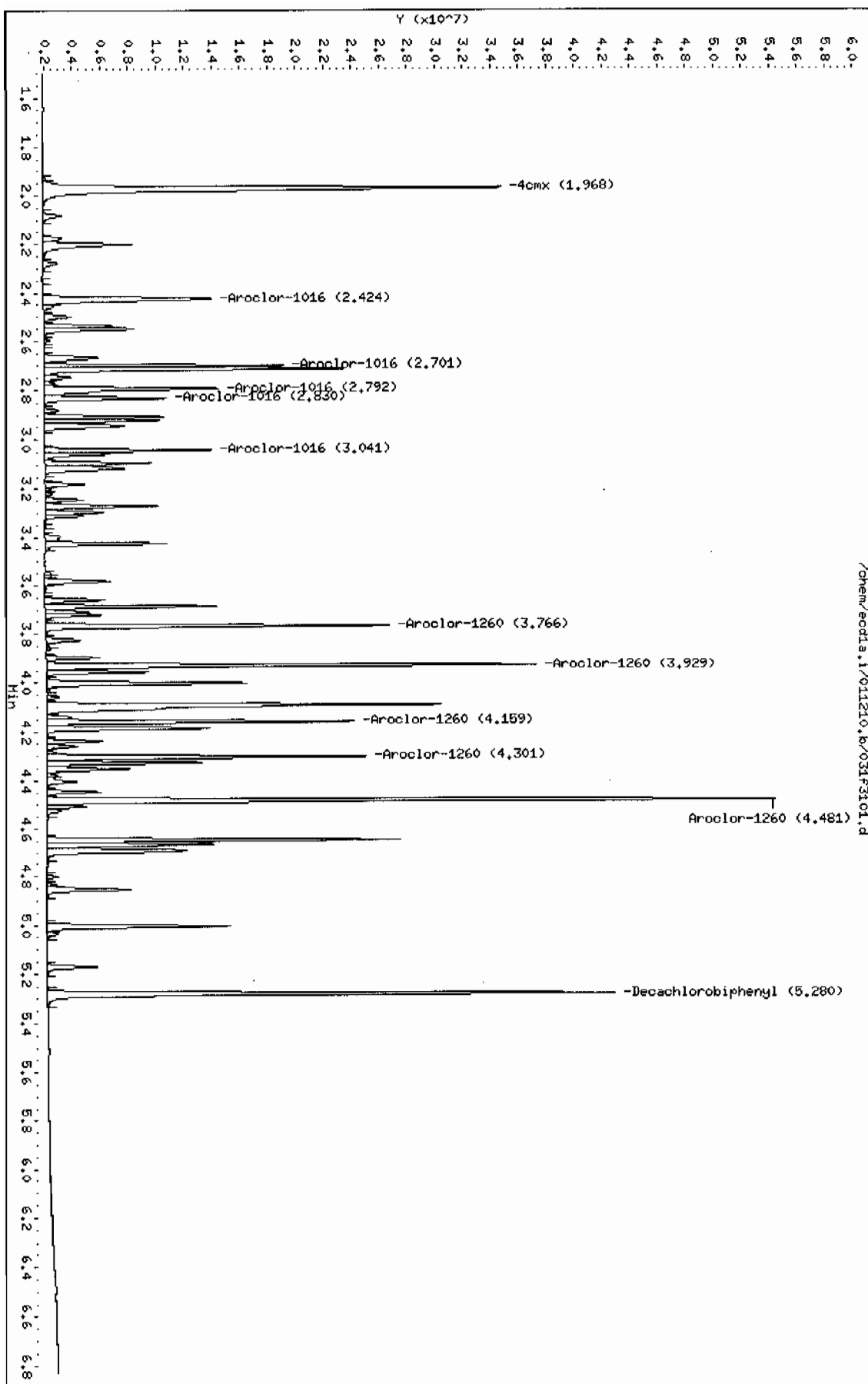
7 Aroclor-1260				CAS #: 11096-82-5		
3.766	3.769	-0.003	17811470 1000.00	1060	80.00- 120.00	100.00
3.929	3.932	-0.003	27097503 1000.00	1100	132.14- 172.14	152.14
4.159	4.163	-0.004	16042757 1000.00	1090	70.07- 110.07	90.07
4.301	4.305	-0.004	16822381 1000.00	1110	74.45- 114.45	94.45
4.481	4.484	-0.003	38270168 1000.00	1110	194.86- 234.86	214.86
Average of Peak Amounts =			1.09e+03			

Data File: /chem/ecdla.i/011210.b/031f3101.d
Date: 12-JAN-2010 13:27
Client ID: AR166003
Sample Info: INR100104-60 03

Column phase: CLP1

Instrument: ecdla.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/011210.b/031b3101.d

Lab Smp Id: WAR100104-60 03

Client Smp ID: AR166003

Inj Date : 12-JAN-2010 13:27

Operator : YSl

Inst ID: ecdla.i

Smp Info : |WAR100104-60 03

Misc Info :

Comment :

Method : /chem/ecdla.i/011210.b/ECD1-B-8082-121409.m

Meth Date : 23-Jan-2010 10:51 yip00818 Quant Type: ESTD

Cal Date : 14-DEC-2009 12:16

Cal File: 044b4401.d

Als bottle: 31

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1pl

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
2.299	2.299	0.000	28627734	100.000	100	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.942	5.945	-0.003	21960359	100.000	99.0	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.195	3.195	0.000	13074814	1000.00	1040	80.00- 120.00	100.00	
3.277	3.279	-0.002	8777811	1000.00	941	47.14- 87.14	67.14	
3.341	3.342	-0.001	5413636	1000.00	1000	21.41- 61.41	41.41	
3.568	3.569	-0.001	6892457	1000.00	977	32.72- 72.72	52.72	
3.643	3.645	-0.002	6412928	1000.00	979	29.05- 69.05	49.05	
Average of Peak Amounts =					987			

7 Aroclor-1260					CAS #: 11096-82-5			
4.333	4.335	-0.002	13295972	1000.00	972	80.00- 120.00	100.00	
4.457	4.459	-0.002	16138030	1000.00	1010	101.38- 141.38	121.38	
4.723	4.726	-0.003	12348659	1000.00	983	72.88- 112.88	92.88	
4.896	4.899	-0.003	12683793	1000.00	990	75.40- 115.40	95.40	
5.044	5.046	-0.002	28029483	1000.00	1000	190.81- 230.81	210.81	
Average of Peak Amounts =					991			

Data File: /chem/ecdl1a.i/011210.b/031b3101.d

Date: 12-JAN-2010 13:27

Client ID: AR166003

Sample Info: IMA100104-60 03

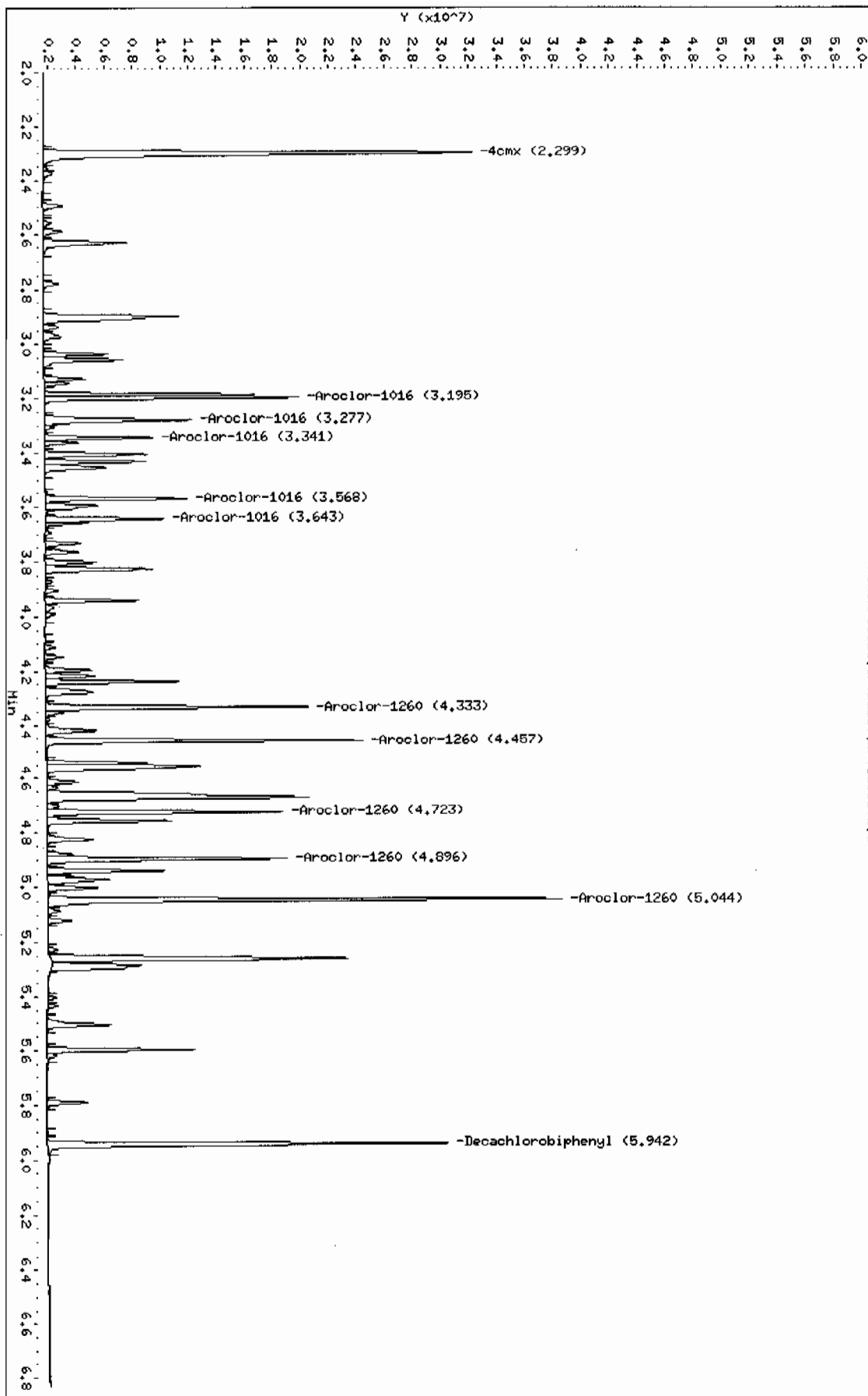
Column phase: CLP2

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl1a.i/011210.b/031b3101.d



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.: 10-1131

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.97			DCB: 5.29			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	SI RT	#	DCB RT
=====	=====	=====	=====	=====	=====	=====
01	PIBLK01	WAR091130-99	12/14/09	0444	1.97	5.29
02	ZZZZZ	ZZZZZ	12/14/09	0454	1.97	5.29
03	ZZZZZ	ZZZZZ	12/14/09	0505	1.97	5.29
04	ZZZZZ	ZZZZZ	12/14/09	0515	1.97	5.29
05	ZZZZZ	ZZZZZ	12/14/09	0526	1.97	5.29
06	AR123201	WAR090930-32	12/14/09	0536	1.97	5.29
07	AR122101	WAR090803-21	12/14/09	0547	1.97	5.29
08	AR126201	WAR090803-62	12/14/09	0558	1.97	5.29
09	ZZZZZ	ZZZZZ	12/14/09	0608	1.97	5.29
10	ZZZZZ	ZZZZZ	12/14/09	0619	1.97	5.29
11	ZZZZZ	ZZZZZ	12/14/09	0629	1.97	5.29
12	ZZZZZ	ZZZZZ	12/14/09	0640	1.97	5.29
13	ZZZZZ	ZZZZZ	12/14/09	0650	1.97	5.29
14	ZZZZZ	ZZZZZ	12/14/09	0701	1.97	5.29
15	ZZZZZ	ZZZZZ	12/14/09	0711	1.97	5.29
16	AR125401	WAR091214-05	12/14/09	0722	1.97	5.29
17	AR125402	WAR091214-06	12/14/09	0732	1.97	5.29
18	AR125403	WAR091214-07	12/14/09	0743	1.97	5.29
19	AR125404	WAR091214-08	12/14/09	0753	1.97	5.29
20	AR125405	IAR091027-01	12/14/09	0804	1.97	5.29
21	AR125401	WAR091102-54	12/14/09	0814	1.97	5.29
22	AR124201	WAR091214-09	12/14/09	0825	1.97	5.29
23	AR124202	WAR091214-10	12/14/09	0835	1.97	5.29
24	AR124203	WAR091214-11	12/14/09	0846	1.97	5.29
25	AR124204	WAR091214-12	12/14/09	0856	1.97	5.29
26	AR124205	IAR0911111-0	12/14/09	0907	1.97	5.29
27	AR124201	WAR091102-42	12/14/09	0917	1.97	5.29
28	AR124801	WAR091214-13	12/14/09	0928	1.97	5.29
29	AR124802	WAR091214-14	12/14/09	0938	1.97	5.29
30	AR124803	WAR091214-15	12/14/09	0949	1.97	5.29
31	AR124804	WAR091214-16	12/14/09	0959	1.97	5.29
32	AR124805	IAR091027-02	12/14/09	1010	1.97	5.29

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.: 10-1131

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.97				DCB: 5.29			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#	RT	#
01	AR124801	WAR091027-48	12/14/09	1020	1.97	5.29	
02	AR166001	WAR091214-01	12/14/09	1031	1.97	5.29	
03	AR166002	WAR091214-02	12/14/09	1041	1.97	5.29	
04	AR166003	WAR091214-03	12/14/09	1052	1.97	5.29	
05	AR166004	WAR091214-04	12/14/09	1102	1.97	5.29	
06	AR166005	IAR091102-01	12/14/09	1113	1.97	5.29	
07	AR166001	WAR091211-60	12/14/09	1123	1.97	5.29	
08	AR126801	WAR091214-17	12/14/09	1134	1.97	5.29	
09	AR126802	WAR091214-18	12/14/09	1144	1.97	5.29	
10	AR126803	WAR091214-19	12/14/09	1155	1.97	5.29	
11	AR126804	WAR091214-20	12/14/09	1206	1.97	5.29	
12	AR126805	IAR090817-02	12/14/09	1216	1.97	5.29	
13	AR126801	WAR091106-68	12/14/09	1227	1.97	5.29	
14	DDTANALOGSTD	WAR091020-DD	12/14/09	1237			
15	P1BLK02	WAR091130-99	12/14/09	1248	1.97	5.29	
16	ZZZZZ	ZZZZZ	12/14/09	1258	1.97	5.29	
17	ZZZZZ	ZZZZZ	12/14/09	1309	1.97	5.29	
18	ZZZZZ	ZZZZZ	12/14/09	1319	1.97	5.29	
19	ZZZZZ	ZZZZZ	12/14/09	1330	1.97	5.29	
20	ZZZZZ	ZZZZZ	12/14/09	1340	1.97	5.29	
21	ZZZZZ	ZZZZZ	12/14/09	1351	1.97	5.29	
22	ZZZZZ	ZZZZZ	12/14/09	1403	1.97	5.29	
23	ZZZZZ	ZZZZZ	12/14/09	1416	1.97	5.29	
24	ZZZZZ	ZZZZZ	12/14/09	1429	1.97	5.29	
25	ZZZZZ	ZZZZZ	12/14/09	1441	1.97	5.29	
26	AR166002	WAR091211-60	12/14/09	1452	1.97	5.29	
27	P1BLK03	WAR091130-99	12/14/09	1502	1.97	5.29	
28	ZZZZZ	ZZZZZ	12/14/09	1513	1.97	5.29	
29	ZZZZZ	ZZZZZ	12/14/09	1525	1.97	5.29	
30	ZZZZZ	ZZZZZ	12/14/09	1538	1.97	5.29	
31	ZZZZZ	ZZZZZ	12/14/09	1551	1.97	5.29	
32	ZZZZZ	ZZZZZ	12/14/09	1603	1.97	5.29	

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.

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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.: 10-1131

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/11/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.30			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR091130-99	12/14/09	0444	2.30	5.95
02	ZZZZZ	ZZZZZ	12/14/09	0454	2.30	5.94
03	ZZZZZ	ZZZZZ	12/14/09	0505	2.30	5.95
04	ZZZZZ	ZZZZZ	12/14/09	0515	2.30	5.95
05	ZZZZZ	ZZZZZ	12/14/09	0526	2.30	5.95
06	AR123201	WAR090930-32	12/14/09	0536	2.30	5.95
07	AR122101	WAR090803-21	12/14/09	0547	2.30	5.95
08	AR126201	WAR090803-62	12/14/09	0558	2.30	5.94
09	ZZZZZ	ZZZZZ	12/14/09	0608	2.30	5.94
10	ZZZZZ	ZZZZZ	12/14/09	0619	2.30	5.95
11	ZZZZZ	ZZZZZ	12/14/09	0629	2.30	5.94
12	ZZZZZ	ZZZZZ	12/14/09	0640	2.30	5.94
13	ZZZZZ	ZZZZZ	12/14/09	0650	2.30	5.95
14	ZZZZZ	ZZZZZ	12/14/09	0701	2.30	5.94
15	ZZZZZ	ZZZZZ	12/14/09	0711	2.30	5.95
16	AR125401	WAR091214-05	12/14/09	0722	2.30	5.94
17	AR125402	WAR091214-06	12/14/09	0732	2.30	5.94
18	AR125403	WAR091214-07	12/14/09	0743	2.30	5.94
19	AR125404	WAR091214-08	12/14/09	0753	2.30	5.94
20	AR125405	IAR091027-01	12/14/09	0804	2.30	5.95
21	AR125401	WAR091102-54	12/14/09	0814	2.30	5.94
22	AR124201	WAR091214-09	12/14/09	0825	2.30	5.94
23	AR124202	WAR091214-10	12/14/09	0835	2.30	5.94
24	AR124203	WAR091214-11	12/14/09	0846	2.30	5.94
25	AR124204	WAR091214-12	12/14/09	0856	2.30	5.94
26	AR124205	IAR0911111-0	12/14/09	0907	2.30	5.94
27	AR124201	WAR091102-42	12/14/09	0917	2.30	5.94
28	AR124801	WAR091214-13	12/14/09	0928	2.30	5.94
29	AR124802	WAR091214-14	12/14/09	0938	2.30	5.94
30	AR124803	WAR091214-15	12/14/09	0949	2.30	5.94
31	AR124804	WAR091214-16	12/14/09	0959	2.30	5.94
32	AR124805	IAR091027-02	12/14/09	1010	2.30	5.94

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1131

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/11/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.30			DCB: 5.94		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR124801	WAR091027-48	12/14/09	1020	2.30 5.95
02	AR166001	WAR091214-01	12/14/09	1031	2.30 5.94
03	AR166002	WAR091214-02	12/14/09	1041	2.30 5.94
04	AR166003	WAR091214-03	12/14/09	1052	2.30 5.94
05	AR166004	WAR091214-04	12/14/09	1102	2.30 5.94
06	AR166005	IAR091102-01	12/14/09	1113	2.30 5.94
07	AR166001	WAR091211-60	12/14/09	1123	2.30 5.94
08	AR126801	WAR091214-17	12/14/09	1134	
09	AR126802	WAR091214-18	12/14/09	1144	
10	AR126803	WAR091214-19	12/14/09	1155	
11	AR126804	WAR091214-20	12/14/09	1206	
12	AR126805	IAR090817-02	12/14/09	1216	
13	AR126801	WAR091106-68	12/14/09	1227	2.30 5.94
14	DDTANALOGSTD	WAR091020-DD	12/14/09	1237	
15	PIBLK02	WAR091130-99	12/14/09	1248	2.30 5.94
16	ZZZZZ	ZZZZZ	12/14/09	1258	2.30 5.94
17	ZZZZZ	ZZZZZ	12/14/09	1309	2.30 5.94
18	ZZZZZ	ZZZZZ	12/14/09	1319	2.30 5.94
19	ZZZZZ	ZZZZZ	12/14/09	1330	2.30 5.94
20	ZZZZZ	ZZZZZ	12/14/09	1340	2.30 5.94
21	ZZZZZ	ZZZZZ	12/14/09	1351	2.30 5.94
22	ZZZZZ	ZZZZZ	12/14/09	1403	2.30 5.94
23	ZZZZZ	ZZZZZ	12/14/09	1416	2.30 5.94
24	ZZZZZ	ZZZZZ	12/14/09	1429	2.30 5.94
25	ZZZZZ	ZZZZZ	12/14/09	1441	2.30 5.94
26	AR166002	WAR091211-60	12/14/09	1452	2.30 5.94
27	PIBLK03	WAR091130-99	12/14/09	1502	2.30 5.94
28	ZZZZZ	ZZZZZ	12/14/09	1513	2.30 5.94
29	ZZZZZ	ZZZZZ	12/14/09	1525	2.30 5.94
30	ZZZZZ	ZZZZZ	12/14/09	1538	2.30 5.94
31	ZZZZZ	ZZZZZ	12/14/09	1551	2.30 5.94
32	ZZZZZ	ZZZZZ	12/14/09	1603	2.30 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
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: GEL LABORATORIES LLC Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1131
 GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.97			DCB: 5.28		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	SI RT #	DCB RT #
01	PIBLK01	WAR100105-99	01/12/10	0748	1.97 5.28
02	ZZZZZ	ZZZZZ	01/12/10	0759	1.97 5.28
03	AR125401	WAR091216-54	01/12/10	0809	
04	ZZZZZ	ZZZZZ	01/12/10	0820	
05	AR124801	WAR091217-48	01/12/10	0830	
06	AR123201	WAR100104-32	01/12/10	0841	
07	AR122101	WAR100104-21	01/12/10	0851	
08	AR166001	WAR100104-60	01/12/10	0902	1.97 5.28
09	AR124201	WAR091217-42	01/12/10	0912	
10	AR126201	WAR100104-62	01/12/10	0923	
11	AR126801	WAR100111-68	01/12/10	0933	
12	DDTANALOGSTD	WAR091219-DD	01/12/10	0944	
13	PIBLK02	WAR100105-99	01/12/10	0954	1.97 5.28
14	ZZZZZ	ZZZZZ	01/12/10	1005	1.97 5.28
15	ZZZZZ	ZZZZZ	01/12/10	1015	1.97 5.28
16	ZZZZZ	ZZZZZ	01/12/10	1026	1.98 5.28
17	ZZZZZ	ZZZZZ	01/12/10	1038	1.98 5.28
18	ZZZZZ	ZZZZZ	01/12/10	1051	1.98 5.28
19	AR166002	WAR100104-60	01/12/10	1103	1.97 5.28
20	PIBLK03	WAR100105-99	01/12/10	1114	1.97 5.28
21	PBLK01	1202012544	01/12/10	1124	1.97 5.28
22	PBLK01LCS	1202012545	01/12/10	1135	1.97 5.28
23	ZZZZZ	ZZZZZ	01/12/10	1146	1.97 5.28
24	ZZZZZ	ZZZZZ	01/12/10	1158	1.97 5.28
25	RE12-10-7657	244126019	01/12/10	1211	1.97 5.28
26	RE12-10-7657MS	1202012546	01/12/10	1223	1.97 5.28
27	RE12-10-7657MSD	1202012547	01/12/10	1236	1.97 5.28
28	RE12-10-7658	244126020	01/12/10	1249	1.97 5.28
29	ZZZZZ	ZZZZZ	01/12/10	1301	1.97 5.28
30	ZZZZZ	ZZZZZ	01/12/10	1314	1.97 5.28
31	AR166003	WAR100104-60	01/12/10	1327	1.97 5.28
32	PIBLK04	WAR100105-99	01/12/10	1337	1.97 5.28

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
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: GEL LABORATORIES LLC Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1131
 GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.30		DCB: 5.95			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	01/12/10	0748	
02	ZZZZZ	ZZZZZ	01/12/10	0759	
03	AR125401	WAR091216-54	01/12/10	0809	
04	ZZZZZ	ZZZZZ	01/12/10	0820	
05	AR124801	WAR091217-48	01/12/10	0830	
06	AR123201	WAR100104-32	01/12/10	0841	
07	AR122101	WAR100104-21	01/12/10	0851	
08	AR166001	WAR100104-60	01/12/10	0902	
09	AR124201	WAR091217-42	01/12/10	0912	
10	AR126201	WAR100104-62	01/12/10	0923	
11	AR126801	WAR100111-68	01/12/10	0933	
12	DDTANALOGSTD	WAR091219-DD	01/12/10	0944	
13	PIBLK02	WAR100105-99	01/12/10	0954	
14	ZZZZZ	ZZZZZ	01/12/10	1005	
15	ZZZZZ	ZZZZZ	01/12/10	1015	
16	ZZZZZ	ZZZZZ	01/12/10	1026	
17	ZZZZZ	ZZZZZ	01/12/10	1038	
18	ZZZZZ	ZZZZZ	01/12/10	1051	
19	AR166002	WAR100104-60	01/12/10	1103	
20	PIBLK03	WAR100105-99	01/12/10	1114	
21	PBLK01	1202012544	01/12/10	1124	
22	PBLK01LCS	1202012545	01/12/10	1135	
23	ZZZZZ	ZZZZZ	01/12/10	1146	
24	ZZZZZ	ZZZZZ	01/12/10	1158	
25	RE12-10-7657	244126019	01/12/10	1211	
26	RE12-10-7657MS	1202012546	01/12/10	1223	
27	RE12-10-7657MSD	1202012547	01/12/10	1236	
28	RE12-10-7658	244126020	01/12/10	1249	
29	ZZZZZ	ZZZZZ	01/12/10	1301	
30	ZZZZZ	ZZZZZ	01/12/10	1314	
31	AR166003	WAR100104-60	01/12/10	1327	
32	PIBLK04	WAR100105-99	01/12/10	1337	

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: 10-1131

Client ID: LCS for batch 940402

Lab Sample ID: 1202012545

Data File: 022f2201.d

Data File: 022b2201.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 12-JAN-10 11:35

Analyzed: 12-JAN-10 11:35

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							3.82
<i>Column 1</i>	1	2.42	2.39 - 2.45	20.4		ug/kg	
	2	2.7	2.67 - 2.73	21.5		ug/kg	
	3	2.79	2.76 - 2.82	20.5		ug/kg	
	4	2.83	2.8 - 2.86	21.4		ug/kg	
	5	3.04	3.01 - 3.07	21.5		ug/kg	
					21.1		
<i>Column 2</i>	1	3.2	3.17 - 3.23	20.9		ug/kg	
	2	3.28	3.25 - 3.31	19.4		ug/kg	
	3	3.34	3.31 - 3.37	20.3		ug/kg	
	4	3.57	3.54 - 3.6	20.6		ug/kg	
	5	3.64	3.62 - 3.68	20.3		ug/kg	
					20.3		
Aroclor-1260							7.73
<i>Column 1</i>	1	3.77	3.74 - 3.8	23.2		ug/kg	
	2	3.93	3.9 - 3.96	22.9		ug/kg	
	3	4.16	4.13 - 4.19	24		ug/kg	
	4	4.3	4.28 - 4.34	24.7		ug/kg	
	5	4.48	4.45 - 4.51	25.3		ug/kg	
					24		
<i>Column 2</i>	1	4.33	4.31 - 4.37	21.6		ug/kg	
	2	4.46	4.43 - 4.49	22.4		ug/kg	
	3	4.72	4.7 - 4.76	22		ug/kg	
	4	4.9	4.87 - 4.93	22.2		ug/kg	
	5	5.05	5.02 - 5.08	23		ug/kg	
					22.2		

Identification Summary

Page 1 of 1

SDG Number: 10-1131

Client ID: RE12-10-7657MS

Lab Sample ID: 1202012546

Data File: 026f2601.d

Data File: 026b2601.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 12-JAN-10 12:23

Analyzed: 12-JAN-10 12:23

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							3.86
Column 1	1	2.42	2.39 – 2.45	22.4		ug/kg	
	2	2.7	2.67 – 2.73	24.4		ug/kg	
	3	2.79	2.76 – 2.82	22.4		ug/kg	
	4	2.83	2.8 – 2.86	22.6		ug/kg	
	5	3.04	3.01 – 3.07	23.8		ug/kg	
					23.1		
Column 2	1	3.2	3.17 – 3.23	23.1		ug/kg	
	2	3.28	3.25 – 3.31	21.2		ug/kg	
	3	3.34	3.31 – 3.37	22		ug/kg	
	4	3.57	3.54 – 3.6	22.3		ug/kg	
	5	3.64	3.62 – 3.68	22.4		ug/kg	
					22.2		
Aroclor-1260							9.52
Column 1	1	3.77	3.74 – 3.8	27.7		ug/kg	
	2	3.93	3.9 – 3.96	28.7		ug/kg	
	3	4.16	4.13 – 4.19	29.1		ug/kg	
	4	4.3	4.28 – 4.34	29.1		ug/kg	
	5	4.48	4.45 – 4.51	29.7		ug/kg	
					28.9		
Column 2	1	4.33	4.31 – 4.37	25.2		ug/kg	
	2	4.46	4.43 – 4.49	26.7		ug/kg	
	3	4.72	4.7 – 4.76	26.3		ug/kg	
	4	4.9	4.87 – 4.93	26		ug/kg	
	5	5.04	5.02 – 5.08	27		ug/kg	
					26.2		

Identification Summary

Page 1 of 1

SDG Number: 10-1131

Client ID: RE12-10-7657MSD

Lab Sample ID: 1202012547

Data File: 027f2701.d

Data File: 027b2701.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 12-JAN-10 12:36

Analyzed: 12-JAN-10 12:36

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.6
Column 1	1	2.42	2.39 – 2.45	22.9	23.5	ug/kg	
	2	2.7	2.67 – 2.73	24.7		ug/kg	
	3	2.79	2.76 – 2.82	23		ug/kg	
	4	2.83	2.8 – 2.86	22.6		ug/kg	
	5	3.04	3.01 – 3.07	24.4		ug/kg	
Column 2	1	3.2	3.17 – 3.23	23.7	23.2	ug/kg	
	2	3.28	3.25 – 3.31	22.2		ug/kg	
	3	3.34	3.31 – 3.37	23.1		ug/kg	
	4	3.57	3.54 – 3.6	23.3		ug/kg	
	5	3.64	3.62 – 3.68	23.5		ug/kg	
Aroclor-1260							9.36
Column 1	1	3.77	3.74 – 3.8	29.3	30.7	ug/kg	
	2	3.93	3.9 – 3.96	30.6		ug/kg	
	3	4.16	4.13 – 4.19	31		ug/kg	
	4	4.3	4.28 – 4.34	30.9		ug/kg	
	5	4.48	4.45 – 4.51	31.6		ug/kg	
Column 2	1	4.33	4.31 – 4.37	26.7	27.9	ug/kg	
	2	4.46	4.43 – 4.49	28.3		ug/kg	
	3	4.72	4.7 – 4.76	27.9		ug/kg	
	4	4.9	4.87 – 4.93	27.8		ug/kg	
	5	5.04	5.02 – 5.08	28.9		ug/kg	

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1131

Lab Sample ID: 1202012544

Client Sample: QC for batch 940402

Client ID: MB for batch 940402

Batch ID: 940403

Run Date: 01/12/2010 11:24

Prep Date: 01/11/2010 19:04

Data File: 021f2101-1.d

021b2101-1.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

Data File: /chem/ecdla.i/011210.b/021f2101-3.d
Report Date: 23-Jan-2010 10:49

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/021f2101-3.d
Lab Smp Id: 1202012544 Client Smp ID: PBLK01
Inj Date : 12-JAN-2010 11:24
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202012544|1|
Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 21 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
1.968	1.969	-0.001	46967099	131.383	4.4 80.00- 120.00	100.00

CAS #: 2051-24-3						
5.281	5.283	-0.002	40527430	134.192	4.5 80.00- 120.00	100.00

Data File: /chem/ecod1a.i/011210.b/021F2101-3.d

Date: 12-JAN-2010 11:24

Client ID: PBLK01

Sample Info: 11202012544111

Volume Injected (uL): 1.0

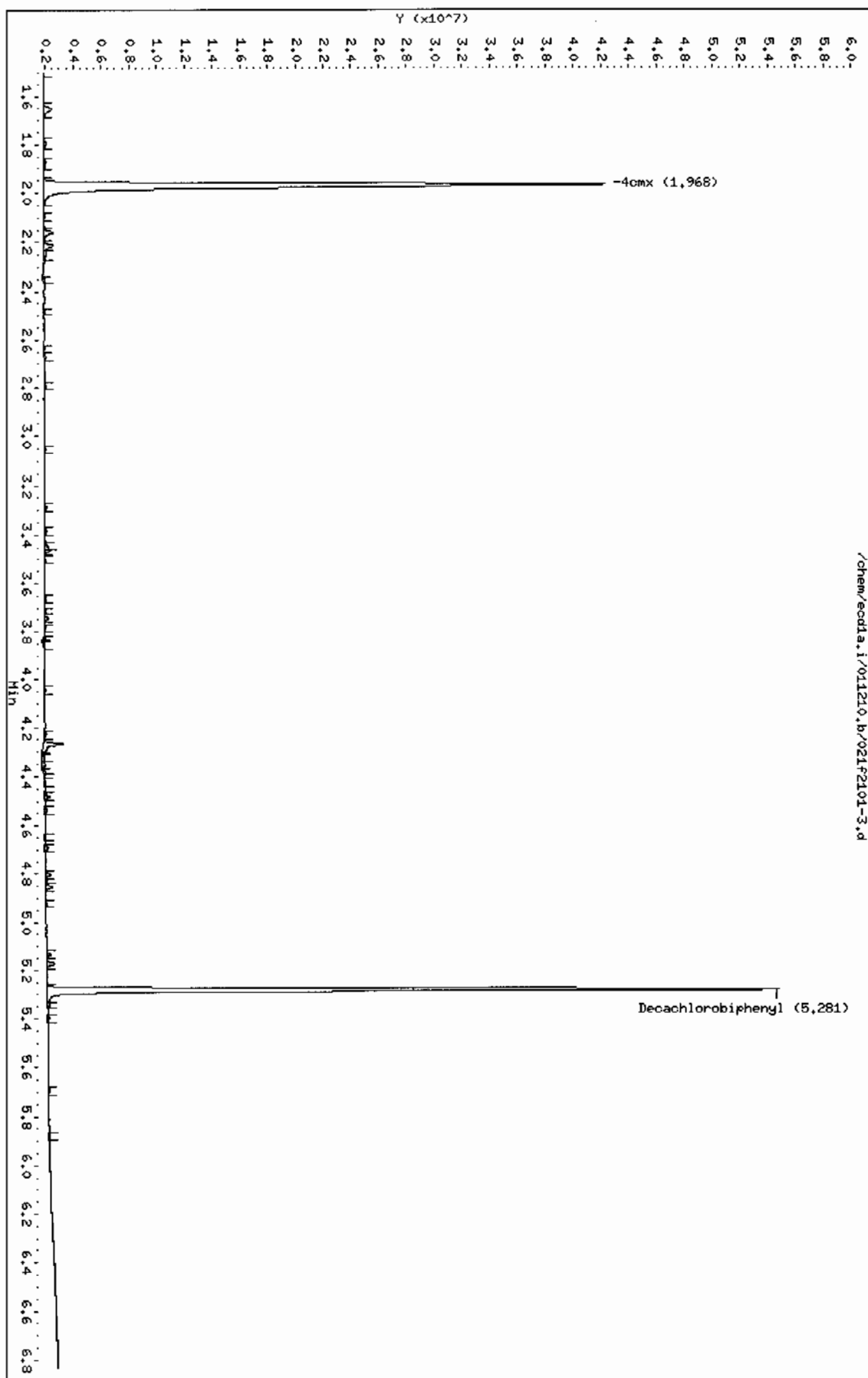
Column phase: CLP1

Instrument: ecod1a.i

Operator: YSL

Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/011210.b/021b2101-3.d
 Report Date: 23-Jan-2010 10:49

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/011210.b/021b2101-3.d
 Lab Smp Id: 1202012544 Client Smp ID: PBLK01
 Inj Date : 12-JAN-2010 11:24
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202012544|1|
 Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m
 Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
 Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
 Als bottle: 21 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1131.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	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
2.298	2.299	-0.001	34773482	121.867	4.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.944	5.945	-0.001	29068897	131.067	4.4 80.00- 120.00	100.00

Data File: /chem/ecdda.i/011210.b/021b2101-3.d

Date: 12-JAN-2010 11:24

Client ID: PBLK01

Sample Info: 1120201254411

Volume Injected (uL): 1.0

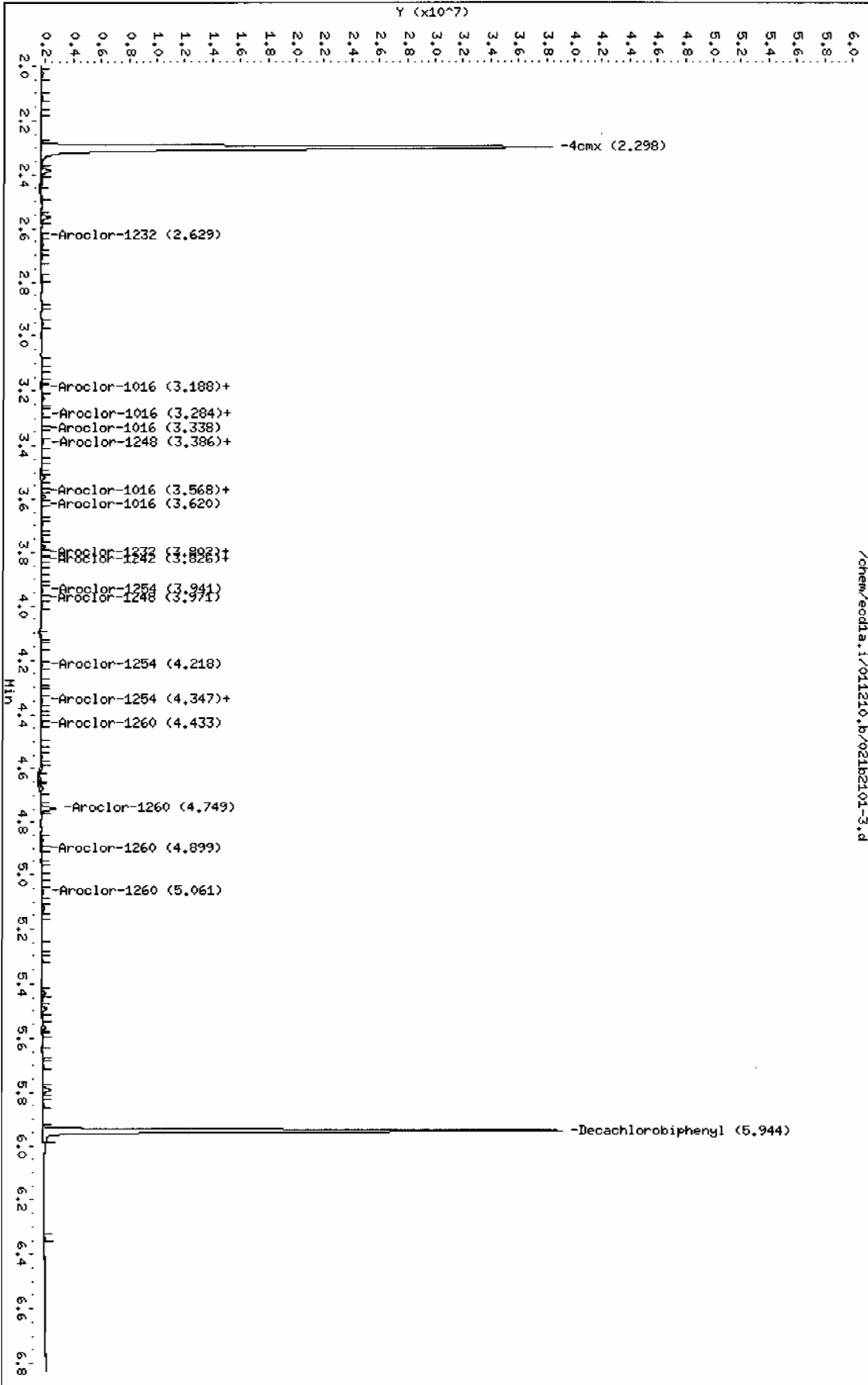
Column phase: CLP2

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

Page 1



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1131

Matrix: SOIL

Lab Sample ID: 1202012545

Client Sample: QC for batch 940402

Client: LANL010

Project: QC

Client ID: LCS for batch 940402

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 940403

Inst: ECD1A.1

Dilution: 1

Run Date: 01/12/2010 11:35

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 01/11/2010 19:04

Aliquot: 30 g

Final Volume: 1 mL

Data File: 022f2201-1.d

Column: 1 CLP1

Level: LOW

022b2201-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		21.1	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		24.0	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/011210.b/022f2201-3.d
Lab Smp Id: 1202012545 Client Smp ID: PBLK01LCS
Inj Date : 12-JAN-2010 11:35
Operator : YSl Inst ID: ecdla.i
Smp Info : |1202012545|1|
Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 22 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8				
1.967	1.969	-0.002	46854408	131.068	4.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.282	5.283	-0.001	37971519	125.729	4.2	80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2				
2.425	2.424	0.001	8504367	613.287	20.4	80.00- 120.00	100.00
2.701	2.702	-0.001	6527683	646.451	21.5	56.95- 96.95	76.76
2.794	2.794	0.000	7247117	616.408	20.5	64.78- 104.78	85.22
2.831	2.832	-0.001	4232148	641.331	21.4	30.82- 70.82	49.76

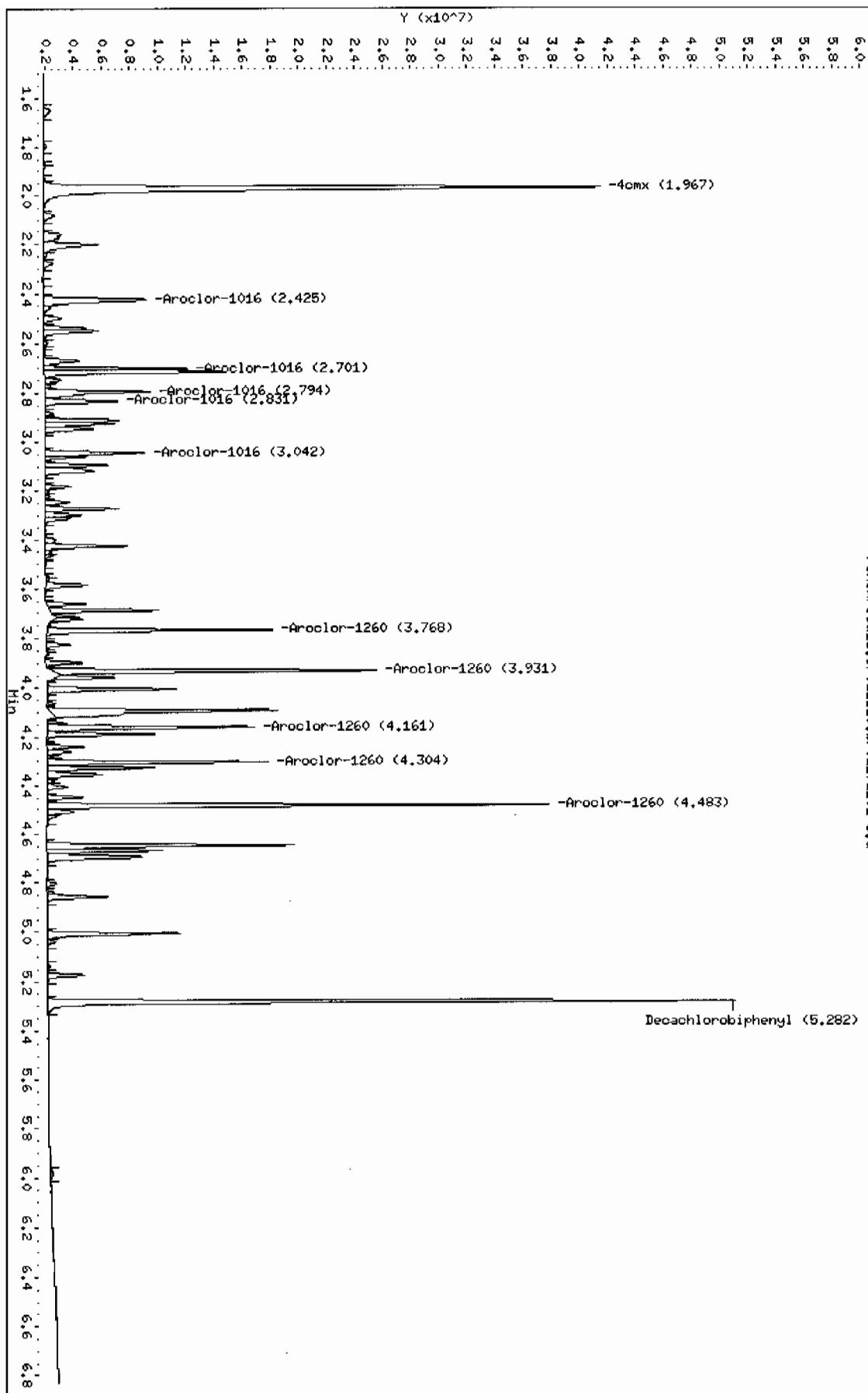
			CONCENTRATIONS					
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
3.042	3.043	-0.001	5584300	643.842	21.5	45.65-	85.65	65.66
Average of Peak Concentrations =					21.1			

7 Aroclor-1260					CAS #: 11096-82-5			
3.768	3.769	-0.001	11662396	696.173	23.2	80.00-	120.00	100.00
3.931	3.932	-0.001	16976594	686.128	22.9	132.05-	172.05	145.57
4.161	4.163	-0.002	10582860	720.543	24.0	70.36-	110.36	90.74
4.304	4.305	-0.001	11236423	739.992	24.7	74.40-	114.40	96.35
4.483	4.484	-0.001	26113549	760.210	25.3	195.73-	235.73	223.91
Average of Peak Concentrations =					24.0			

Data File: /chem/ecdda.i/011210.b/022f2201-3.d
Date: 12-JAN-2010 11:35
Client ID: PLK01LCS
Sample Info: 11202012545/11
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YS1
Column diameter: 0.25

/chem/ecdda.i/011210.b/022f2201-3.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/011210.b/022b2201-3.d
 Lab Smp Id: 1202012545 Client Smp ID: PBLK01LCS
 Inj Date : 12-JAN-2010 11:35
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202012545|1|
 Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m
 Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
 Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
 Als bottle: 22 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1131.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	ON-COL RESPONSE (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO

\$ 11 4cmx				CAS #: 877-09-8		
2.298	2.299	-0.001	34638630	121.394	4.0 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.944	5.945	-0.001	28530665	128.640	4.3 80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.196	3.195	0.001	7903170	626.662	20.9 80.00- 120.00	100.00
3.278	3.279	-0.001	5435868	582.755	19.4 46.12- 86.12	68.78
3.342	3.342	0.000	3292343	608.418	20.3 20.86- 60.86	41.66
3.569	3.569	0.000	4351150	617.020	20.6 33.49- 73.49	55.06

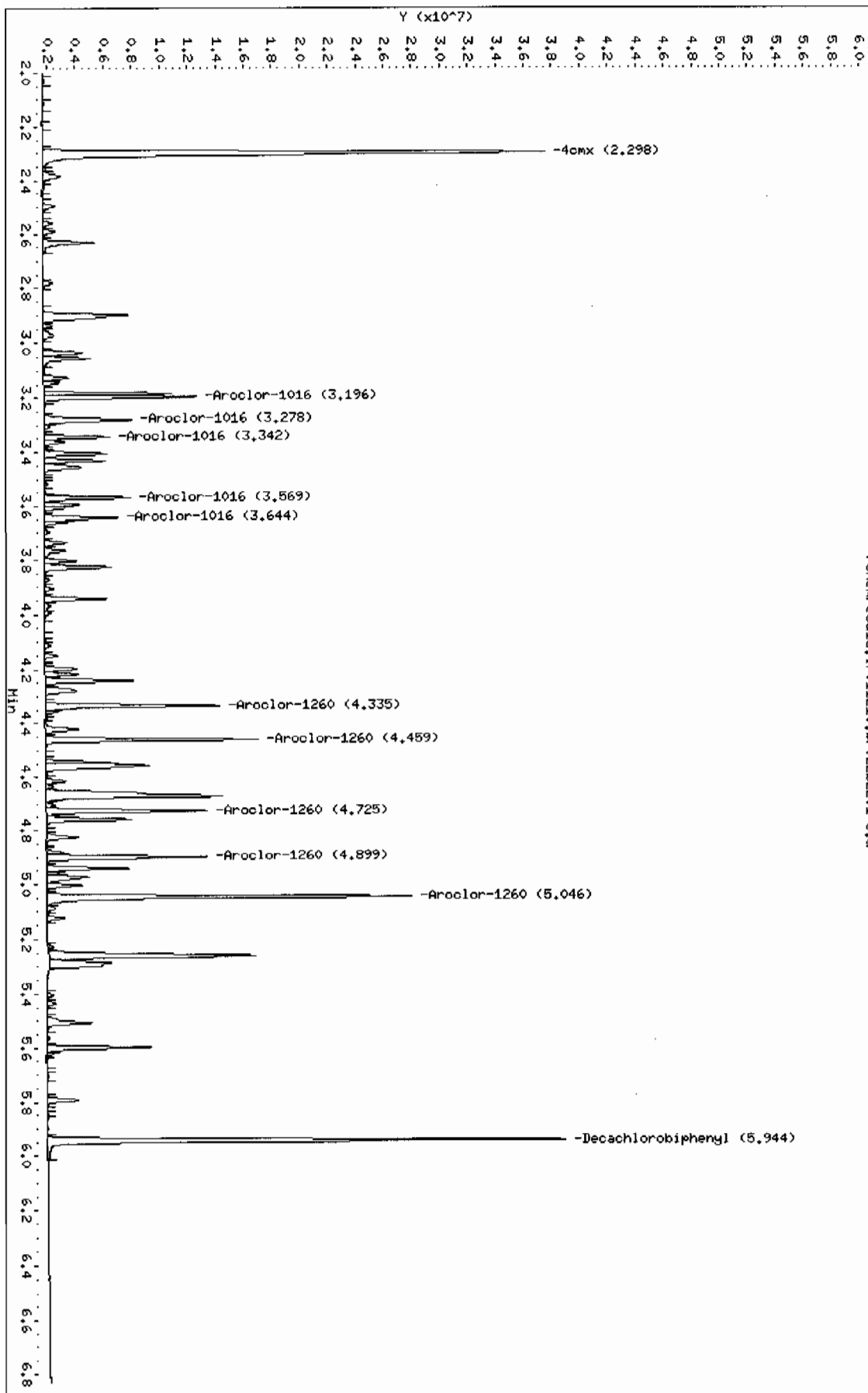
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.644	3.645	-0.001	3983564	608.110	20.3	29.37-	69.37	50.40
Average of Peak Concentrations =					20.3			

7 Aroclor-1260					CAS #: 11096-82-5			
4.335	4.335	0.000	8864669	648.001	21.6	80.00-	120.00	100.00
4.459	4.459	0.000	10750422	670.685	22.4	101.46-	141.46	121.27
4.725	4.726	-0.001	8290666	659.878	22.0	72.86-	112.86	93.52
4.899	4.899	0.000	8542315	666.843	22.2	75.54-	115.54	96.36
5.046	5.046	0.000	19238490	689.609	23.0	193.04-	233.04	217.02
Average of Peak Concentrations =					22.2			

Data File: /chem/eod1a.i/011210.b/022b2201-3.d
Date: 12-JAN-2010 11:35
Client ID: PBLK01CS
Sample Info: 14202012545141
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

/chem/eod1a.i/011210.b/022b2201-3.d



PCB

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Certificate of Analysis
Sample Summary

SDG Number:	10-1131	Date Collected:	01/05/2010 12:00	Matrix:	R
Lab Sample ID:	1202012546	Date Received:	01/08/2010 09:05	%Moisture:	10.1
Client Sample:	QC for batch 940402	Client:	LANL010	Project:	QC
Client ID:	RE12-10-7657MS	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	940403	Inst:	ECD1A.1	Dilution:	1
Run Date:	01/12/2010 12:23	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	01/11/2010 19:04	Aliquot:	30.05 g	Final Volume:	1 mL
Data File:	026f2601.d	Column:	1 CLP1	Level:	LOW
	026b2601.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		23.1	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260		28.9	ug/kg	1.23	3.70	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/011210.b/026f2601.d
Lab Smp Id: 1202012546 Client Smp ID: RE12-10-7657MS
Inj Date : 12-JAN-2010 12:23
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202012546|1|
Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|MS|1|1|
Comment :
Method : /chem/ecdla.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 26 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.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	10.13920	% 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			
1.968	1.969	-0.001	45139410 126.270	4.7	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.280	5.283	-0.003	36214649 119.912	4.4	80.00- 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
2.424	2.424	0.000	8371359 603.695	22.4	80.00- 120.00	100.00	
2.700	2.702	-0.002	6649092 658.474	24.4	56.95- 96.95	79.43	
2.793	2.794	-0.001	7098099 603.733	22.4	64.78- 104.78	84.79	
2.831	2.832	-0.001	4019549 609.114	22.6	30.82- 70.82	48.02	

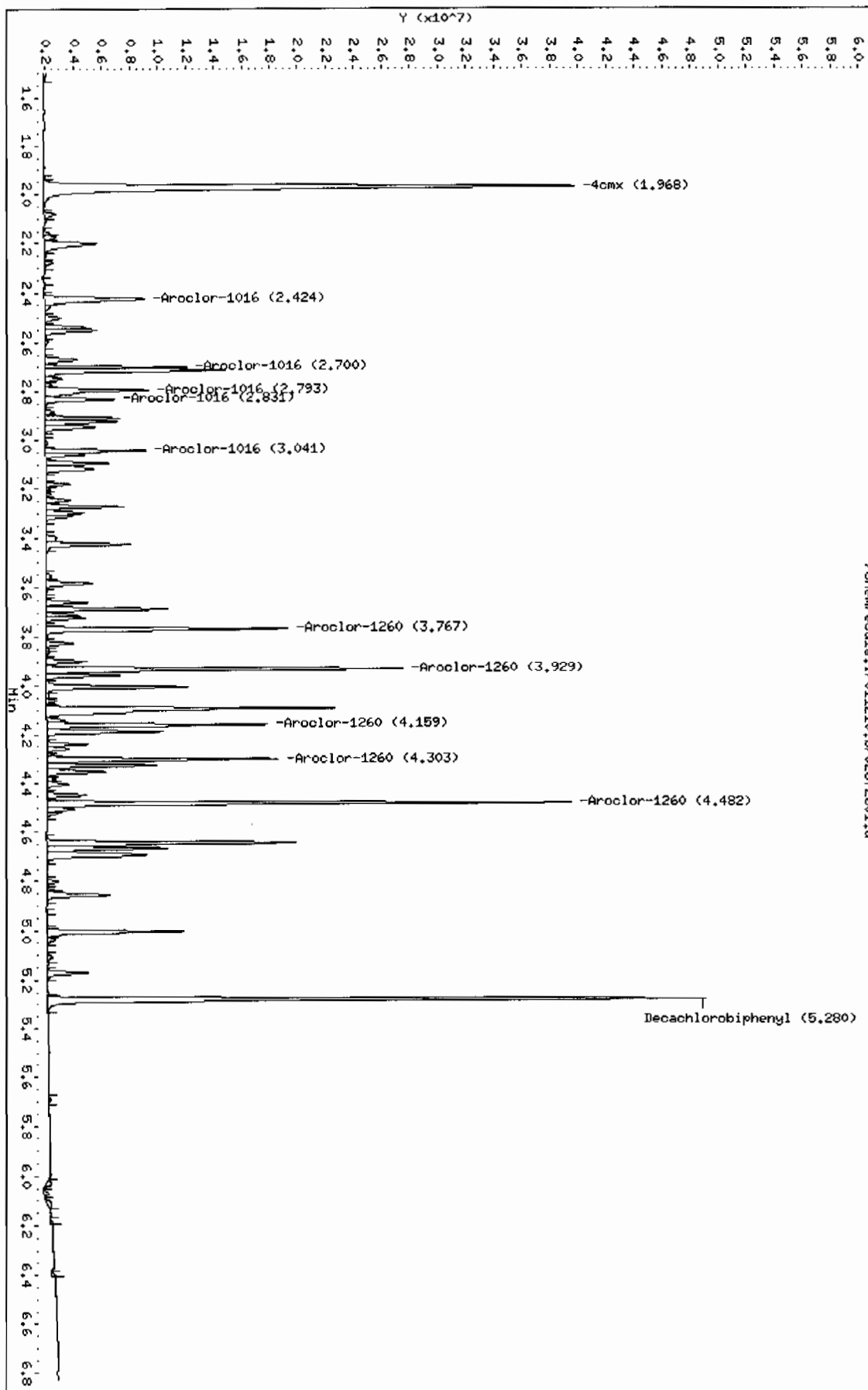
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)						
3.041	3.043	-0.002	5566390	641.777	23.8 45.65- 85.65	66.49
Average of Peak Concentrations =				23.1		

7 Aroclor-1260				CAS #: 11096-82-5		
3.767	3.769	-0.002	12513128	746.957	27.7 80.00- 120.00	100.00
3.929	3.932	-0.003	19192433	775.684	28.7 132.05- 172.05	153.38
4.159	4.163	-0.004	11535253	785.387	29.1 70.36- 110.36	92.19
4.303	4.305	-0.002	11935980	786.062	29.1 74.40- 114.40	95.39
4.482	4.484	-0.002	27577879	802.839	29.7 195.73- 235.73	220.39
Average of Peak Concentrations =				28.9		

Data File: /chem/eod1a.i/011210.b/026f2601.d
Date: 12-JAN-2010 12:23
Client ID: REL2-10-7657MS
Sample Info: 1120201254611
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

/chem/eod1a.i/011210.b/026f2601.d



Data File: /chem/ecd1a.i/011210.b/026b2601.d
 Report Date: 23-Jan-2010 10:50

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd1a.i/011210.b/026b2601.d
 Lab Smp Id: 1202012546 Client Smp ID: RE12-10-7657MS
 Inj Date : 12-JAN-2010 12:23
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202012546|1|
 Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecd1a.i/011210.b/ECD1-B-8082-121409.m
 Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
 Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
 Als bottle: 26 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1131.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	30.05000	Weight of sample extracted (g)
M	10.13920	% 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			
2.299	2.299	0.000	33867293 118.691	4.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.943	5.945	-0.002	27330329 123.228	4.6	80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 126/4-11-2			
3.195	3.195	0.000	7876825 624.573	23.1	80.00- 120.00	100.00 (M)
3.278	3.279	-0.001	5344778 572.990	21.2	46.12- 86.12	67.85
3.342	3.342	0.000	3207830 592.800	22.0	20.86- 60.86	40.72
3.568	3.569	-0.001	4248114 602.409	22.3	33.49- 73.49	53.93

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	.. =====	- =====		- =====	=====		=====	
1 Aroclor-1016 (continued)									
3.643	3.645	-0.002	3970304	606.085	22.4	29.37-	69.37	50.40	
Average of Peak Concentrations =					22.2				

7 Aroclor-1260					CAS #: 11096-82-5				
4.333	4.335	-0.002	9316110	681.001	25.2	80.00-	120.00	100.00	
4.458	4.459	-0.001	11534402	719.595	26.6	101.46-	141.46	123.81	
4.723	4.726	-0.003	8924159	710.300	26.3	72.86-	112.86	95.79	
4.898	4.899	-0.001	8987562	701.601	26.0	75.54-	115.54	96.47	
5.044	5.046	-0.002	20370694	730.193	27.0	193.04-	233.04	218.66	
Average of Peak Concentrations =					26.2				

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdia.i/011210.b/026b2601.d

Date: 12-JAN-2010 12:23

Client ID: RE12-10-7657MS

Sample Info: 11202012546111

Volume Injected (uL): 1.0

Column phase: CLP2

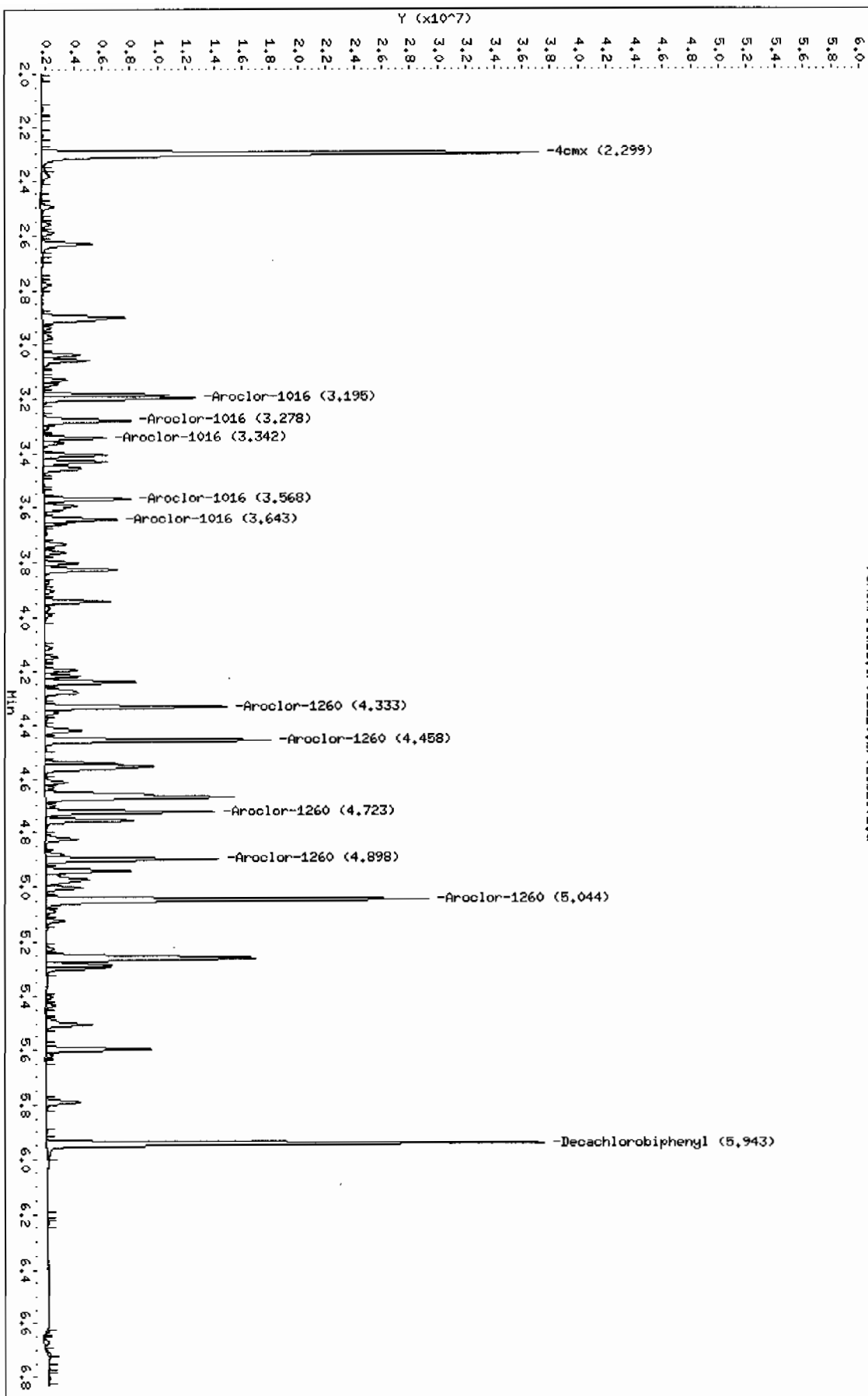
Instrument: ecdia.i

Operator: YSI

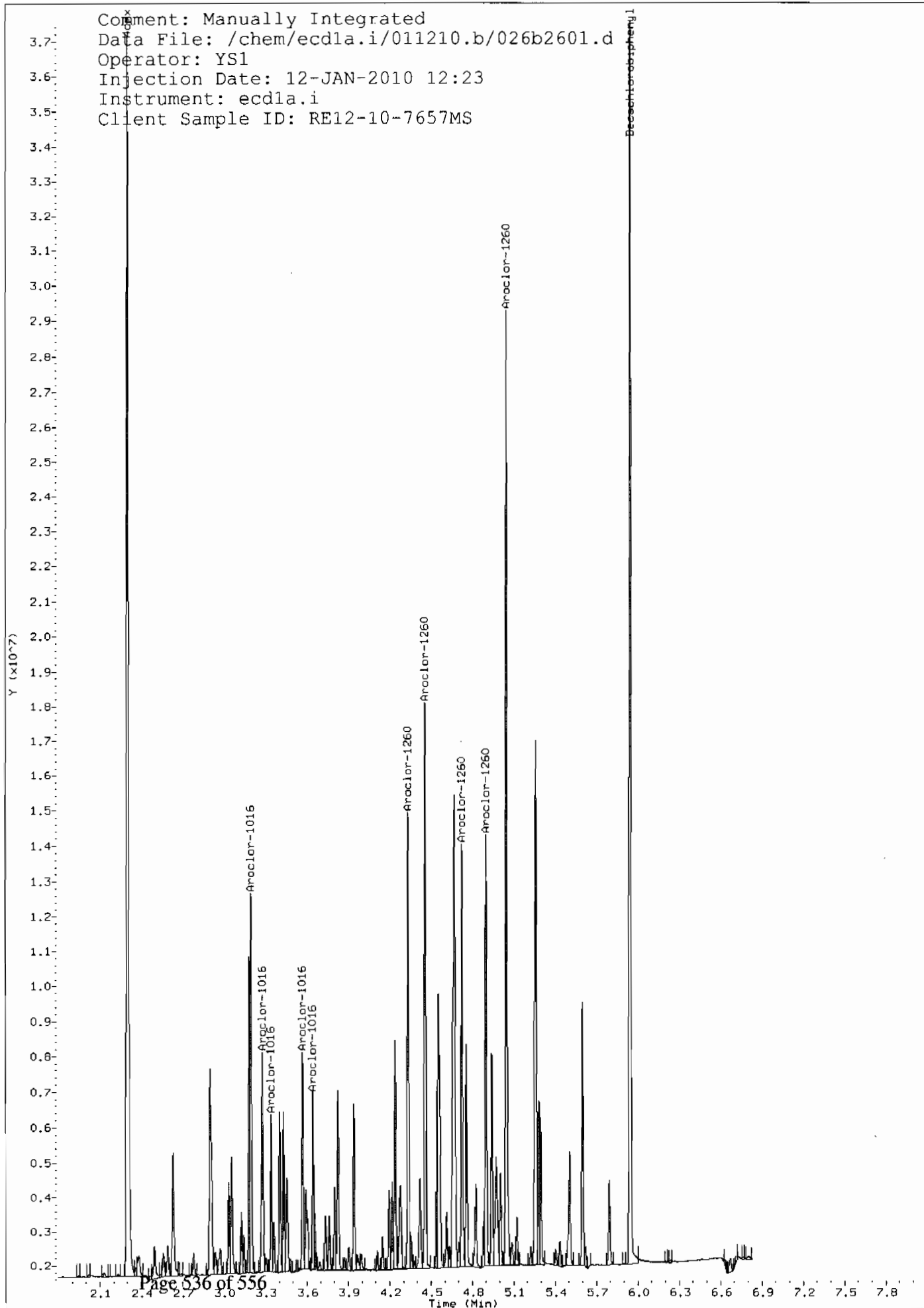
Column diameter: 0.25

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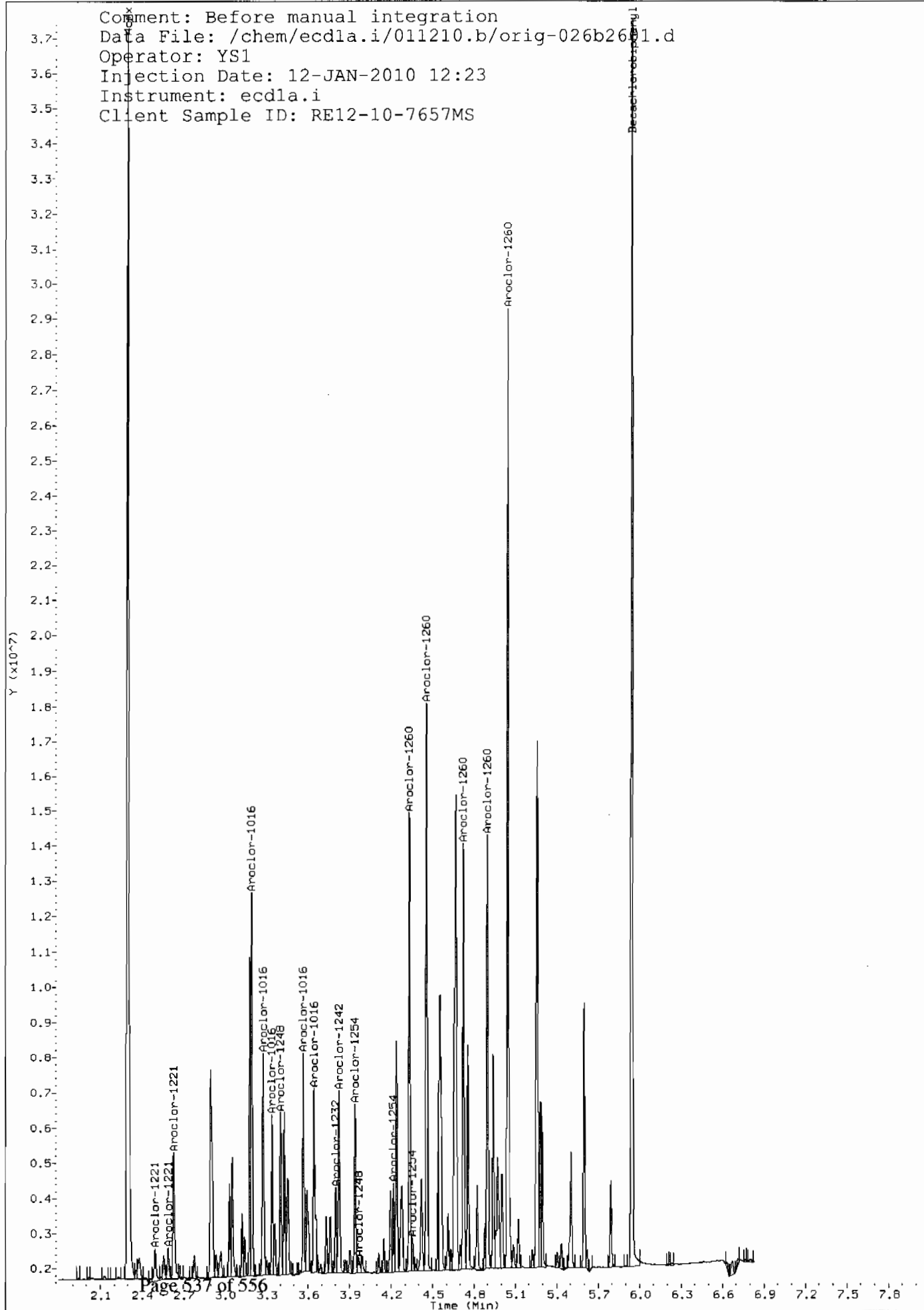
Page 1



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/011210.b/026b2601.d
Operator: YS1
Injection Date: 12-JAN-2010 12:23
Instrument: ecdl1a.i
Client Sample ID: RE12-10-7657MS



Comment: Before manual integration
Data File: /chem/ecdl1.i/011210.b/orig-026b2601.d
Operator: YS1
Injection Date: 12-JAN-2010 12:23
Instrument: ecd1a.i
Client Sample ID: RE12-10-7657MS



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1131
Lab Sample ID: 1202012547
Client Sample: QC for batch 940402
Client ID: RE12-10-7657MSD
Batch ID: 940403
Run Date: 01/12/2010 12:36
Prep Date: 01/11/2010 19:04
Data File: 027f2701.d
027b2701.d

Date Collected: 01/05/2010 12:00
Date Received: 01/08/2010 09:05
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 10.1
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		23.5	ug/kg	1.23	3.71	1
11104-28-2	Aroclor-1221	U	3.71	ug/kg	1.23	3.71	1
11141-16-5	Aroclor-1232	U	3.71	ug/kg	1.23	3.71	1
53469-21-9	Aroclor-1242	U	3.71	ug/kg	1.23	3.71	1
12672-29-6	Aroclor-1248	U	3.71	ug/kg	1.23	3.71	1
11097-69-1	Aroclor-1254	U	3.71	ug/kg	1.23	3.71	1
11096-82-5	Aroclor-1260		30.7	ug/kg	1.23	3.71	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/011210.b/027f2701.d
Lab Smp Id: 1202012547 Client Smp ID: RE12-10-7657MSD
Inj Date : 12-JAN-2010 12:36
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202012547|1|
Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|MSD|1|1|
Comment :
Method : /chem/ecdl1a.i/011210.b/ECD1-F-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 11:34 Cal File: 040f4001.d
Als bottle: 27 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.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	10.13920	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ug/L)	(ug/Kg)	=====	=====
CAS #: 877-09-8						
11.968	1.969	-0.001	46082141	128.907	4.8 80.00- 120.00	100.00
CAS #: 2051-24-3						
12.5280	5.283	-0.003	39080955	129.403	4.8 80.00- 120.00	100.00
CAS #: 12674-11-2						
1.2.423	2.424	-0.001	8552901	616.787	22.8 80.00- 120.00	100.00
2.701	2.702	-0.001	6740986	667.575	24.7 56.95- 96.95	78.82
2.793	2.794	-0.001	7284909	619.622	23.0 64.78- 104.78	85.17
2.830	2.832	-0.002	4032218	611.034	22.6 30.82- 70.82	47.14

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.041	3.043	-0.002	5718071	659.265	24.4	45.65-	85.65	66.86
Average of Peak Concentrations =					23.5			

7 Aroclor-1260					CAS #: 11096-82-5			
3.766	3.769	-0.003	13235145	790.056	29.3	80.00-	120.00	100.00
3.929	3.932	-0.003	20420750	825.327	30.6	132.05-	172.05	154.29
4.159	4.163	-0.004	12276506	835.856	31.0	70.36-	110.36	92.76
4.303	4.305	-0.002	12656315	833.501	30.9	74.40-	114.40	95.63
4.481	4.484	-0.003	29316181	853.444	31.6	195.73-	235.73	221.50
Average of Peak Concentrations =					30.7			

Data File: /chem/ecdla.i/011210.b/027f2701.d

Date: 12-JAN-2010 12:36

Client ID: RE12-10-7667MSD

Sample Info: 1120201254711

Volume Injected (uL): 1.0

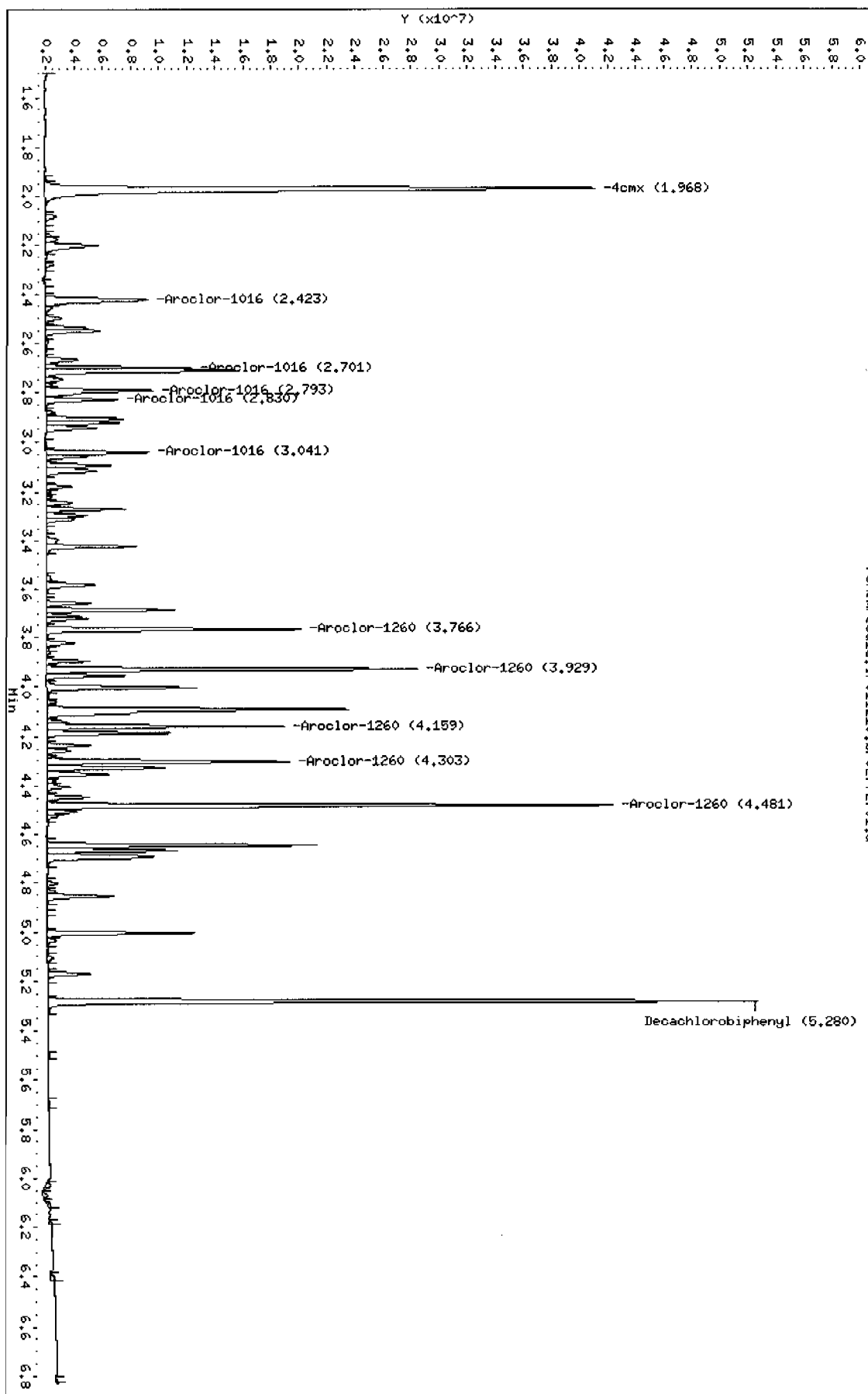
Column phase: CLP1

Instrument: ecdla.i

Operator: YS1

Column diameter: 0.125

/chem/ecdla.i/011210.b/027f2701.d



Data File: /chem/ecdl1a.i/011210.b/027b2701.d
Report Date: 23-Jan-2010 10:50

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/011210.b/027b2701.d
Lab Smp Id: 1202012547 Client Smp ID: RE12-10-7657MSD
Inj Date : 12-JAN-2010 12:36
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202012547|1|
Misc Info : |ECD82P_1S|940403|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecdl1a.i/011210.b/ECD1-B-8082-121409.m
Meth Date : 23-Jan-2010 10:48 yip00818 Quant Type: ESTD
Cal Date : 14-DEC-2009 12:16 Cal File: 044b4401.d
Als bottle: 27 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1131.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	10.13920	% 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		
2.299	2.299	0.000	34007105	119.181	4.4	80.00-	120.00 100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.943	5.945	-0.002	28959137	130.572	4.8	80.00-	120.00 100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.195	3.195	0.000	8066275	639.595	23.7	80.00-	120.00 100.00(M)
3.278	3.279	-0.001	5586744	598.930	22.2	46.12-	86.12 69.26
3.342	3.342	0.000	3374212	623.547	23.1	20.86-	60.86 41.83
3.568	3.569	-0.001	4424468	627.417	23.2	33.49-	73.49 54.85

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.643	3.645	-0.002	4156734	634.545	23.5	29.37-	69.37	51.53
Average of Peak Concentrations =					23.2			

7 Aroclor-1260					CAS #: 11096-82-5			
4.333	4.335	-0.002	9844873	719.653	26.7	80.00-	120.00	100.00
4.458	4.459	-0.001	12247415	764.078	28.3	101.46-	141.46	124.40
4.723	4.726	-0.003	9461291	753.052	27.9	72.86-	112.86	96.10
4.898	4.899	-0.001	9608711	750.090	27.8	75.54-	115.54	97.60
5.044	5.046	-0.002	21793597	781.198	28.9	193.04-	233.04	221.37
Average of Peak Concentrations =					27.9			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eodla.i/011210.b/027b2701.d

Date: 12-JAN-2010 12:36

Client ID: REL2-10-7657MSD

Sample Info: 11202012547111

Volume Injected (uL): 1.0

Column phase: CLP2

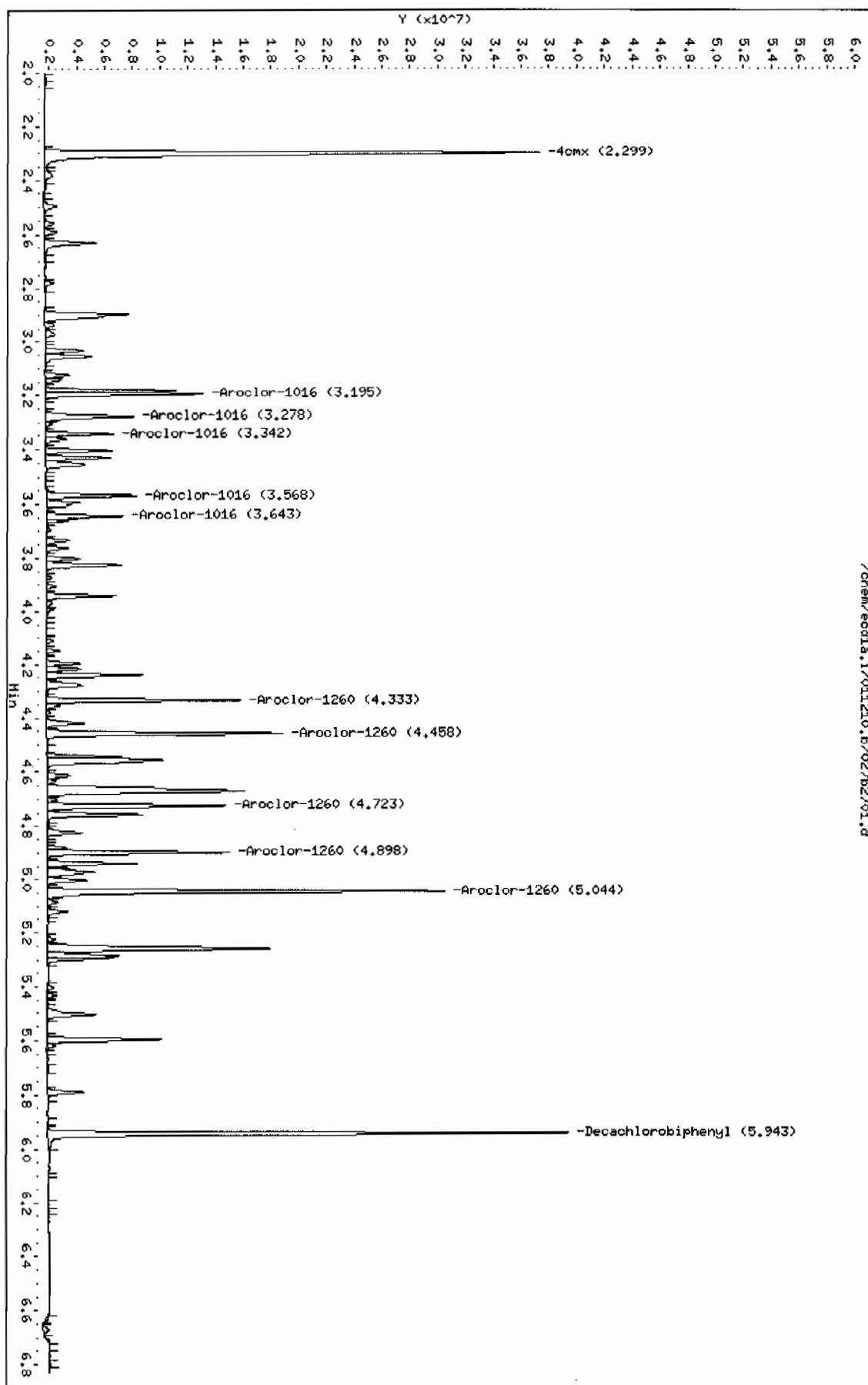
Instrument: eodla.i

Operator: YSI

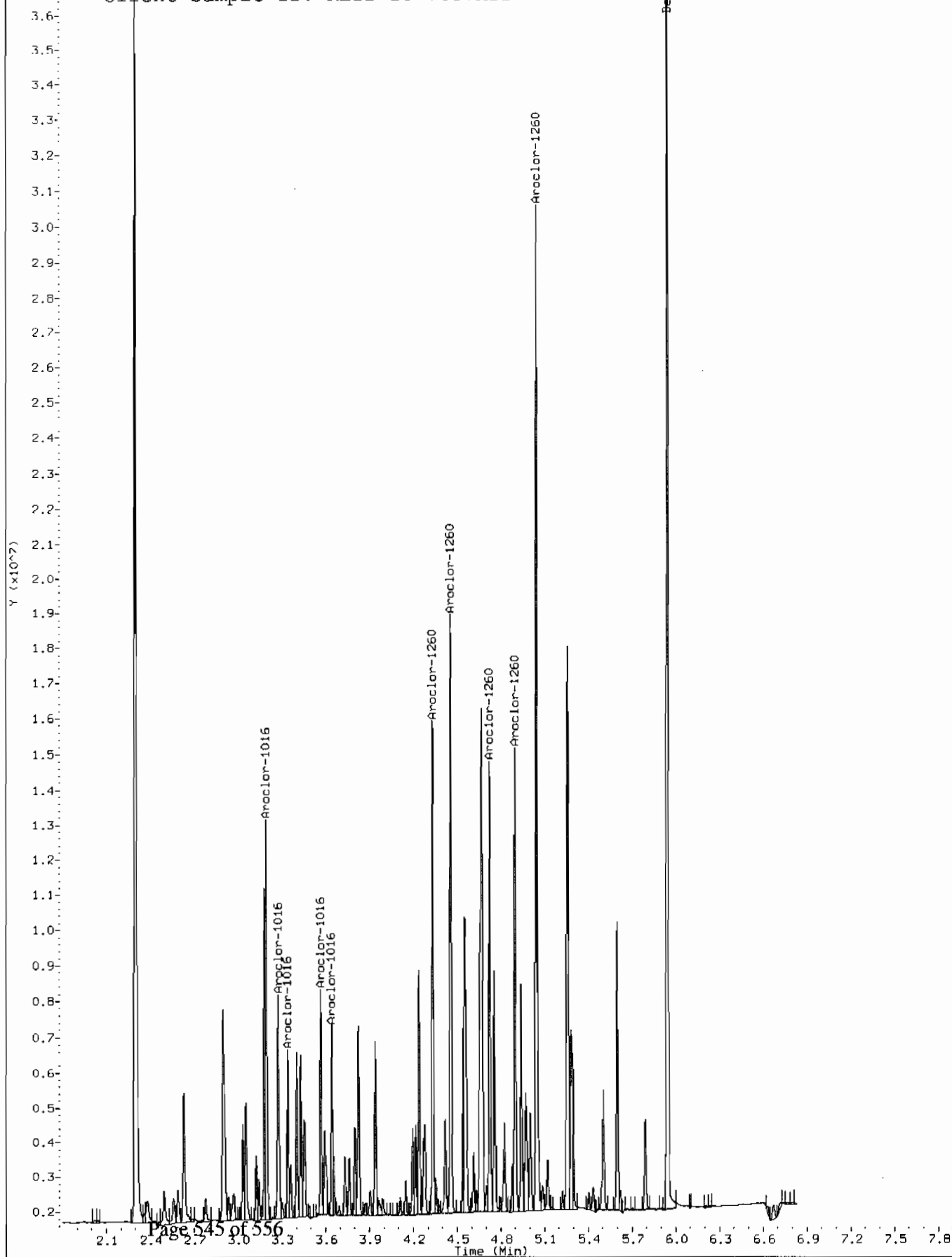
Column diameter: 0.25

/chem/eodla.i/011210.b/027b2701.d

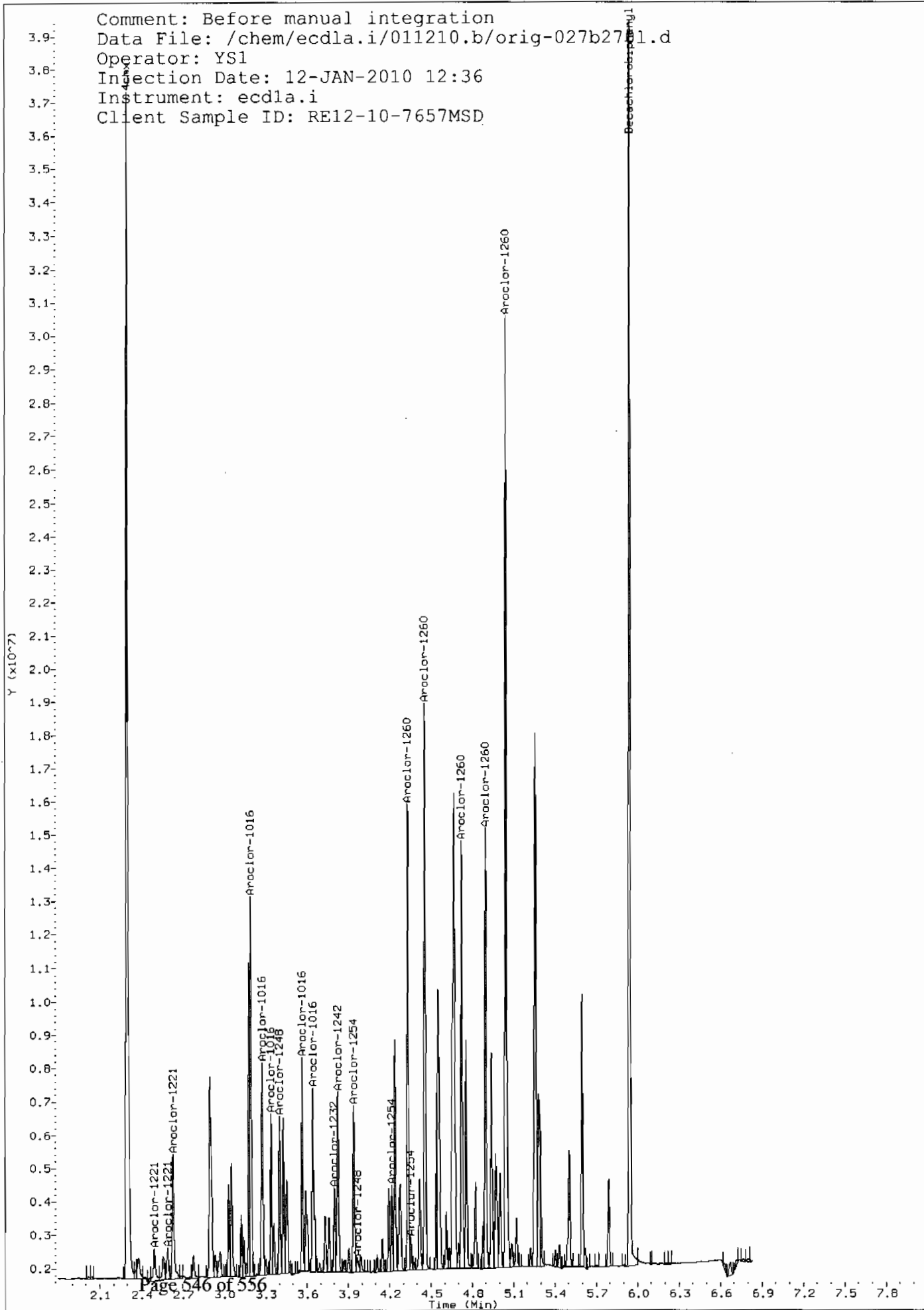
Page 1



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/011210.b/027b2701.d
Operator: YS1
Injection Date: 12-JAN-2010 12:36
Instrument: ecd1a.i
Client Sample ID: RE12-10-7657MSD



Comment: Before manual integration
Data File: /chem/ecdla.i/011210.b/orig-027b2711.d
Operator: YS1
Injection Date: 12-JAN-2010 12:36
Instrument: ecdla.i
Client Sample ID: RE12-10-7657MSD



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 12/15/2009

METHOD: ECD1-F-8082-121409.m

OPERATOR: YS1

REVIEWED BY: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

DATE: _____

SOLVENT LOT DA385

ALUMINA LOT 1230997-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/ecdla.i/121409.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	YS1	14-DEC-2009 04:44	121409	1.01	CLEAN		
002f0201.d	WAR091211-60 01	YS1	14-DEC-2009 04:54	121409	1.01	DOSE RE-ICAL		
003f0301.d	WAR091102-54	YS1	14-DEC-2009 05:05	121409	1.01	DOSE RE-ICAL		
004f0401.d	WAR091102-42	YS1	14-DEC-2009 05:15	121409	1.01	DOSE RE-ICAL		
005f0501.d	WAR091027-48	YS1	14-DEC-2009 05:26	121409	1.01	DOSE RE-ICAL		
006f0601.d	WAR090930-32	YS1	14-DEC-2009 05:36	121409	1.01	PATTERN ONLY		
007f0701.d	WAR090803-21	YS1	14-DEC-2009 05:47	121409	1.01	PATTERN ONLY		
008f0801.d	WAR090803-62	YS1	14-DEC-2009 05:58	121409	1.01	PATTERN ONLY		
009f0901.d	WAR091106-68	YS1	14-DEC-2009 06:08	121409	1.01	DOSE RE-ICAL		
010f1001.d	11660-1	YS1	14-DEC-2009 06:19	121409	1.01	DOSE		
011f1101.d	11660-2	YS1	14-DEC-2009 06:29	121409	1.01	DOSE		
012f1201.d	11660-3	YS1	14-DEC-2009 06:40	121409	1.01	DOSE		
013f1301.d	11660-4	YS1	14-DEC-2009 06:50	121409	1.01	DOSE		
014f1401.d	WAR091102-01	YS1	14-DEC-2009 07:01	121409	1.01	DOSE		
015f1501.d	WAR091211-60 01	YS1	14-DEC-2009 07:11	121409	1.01	DOSE		

Instrument Batch: /chem/ecdla.i/121409.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR091214-05 54	YS1	14-DEC-2009 07:22		121409		1.0		AR1254 I-CAL LEVEL 1
017f1701.d	WAR091214-06 54	YS1	14-DEC-2009 07:32		121409		1.0		AR1254 I-CAL LEVEL 2
018f1801.d	WAR091214-07 54	YS1	14-DEC-2009 07:43		121409		1.0		AR1254 I-CAL LEVEL 3
019f1901.d	WAR091214-08 54	YS1	14-DEC-2009 07:53		121409		1.0		AR1254 I-CAL LEVEL 4
020f2001.d	WAR091027-01	YS1	14-DEC-2009 08:04		121409		1.0		AR1254 I-CAL LEVEL 5
021f2101.d	WAR091102-54	YS1	14-DEC-2009 08:14		121409		1.0		PASSED ON BOTH COLUMNS
022f2201.d	WAR091214-09 42	YS1	14-DEC-2009 08:25		121409		1.0		AR1242 I-CAL LEVEL 1
023f2301.d	WAR091214-10 42	YS1	14-DEC-2009 08:35		121409		1.0		AR1242 I-CAL LEVEL 2
024f2401.d	WAR091214-11 42	YS1	14-DEC-2009 08:46		121409		1.0		AR1242 I-CAL LEVEL 3
025f2501.d	WAR091214-12 42	YS1	14-DEC-2009 08:56		121409		1.0		AR1242 I-CAL LEVEL 4
026f2601.d	WAR091111-01	YS1	14-DEC-2009 09:07		121409		1.0		AR1242 I-CAL LEVEL 5
027f2701.d	WAR091102-42	YS1	14-DEC-2009 09:17		121409		1.0		PASSED ON BOTH COLUMNS
028f2801.d	WAR091214-13 48	YS1	14-DEC-2009 09:28		121409		1.0		AR1248 I-CAL LEVEL 1
029f2901.d	WAR091214-14 48	YS1	14-DEC-2009 09:38		121409		1.0		AR1248 I-CAL LEVEL 2
030f3001.d	WAR091214-15 48	YS1	14-DEC-2009 09:49		121409		1.0		AR1248 I-CAL LEVEL 3
031f3101.d	WAR091214-16 48	YS1	14-DEC-2009 09:59		121409		1.0		AR1248 I-CAL LEVEL 4
032f3201.d	WAR091027-02	YS1	14-DEC-2009 10:10		121409		1.0		AR1248 I-CAL LEVEL 5
033f3301.d	WAR091027-48	YS1	14-DEC-2009 10:20		121409		1.0		PASSED ON BOTH COLUMNS
034f3401.d	WAR091214-01 60	YS1	14-DEC-2009 10:31		121409		1.0		AR1660 I-CAL LEVEL 1
035f3501.d	WAR091214-02 60	YS1	14-DEC-2009 10:41		121409		1.0		AR1660 I-CAL LEVEL 2
036f3601.d	WAR091214-03 60	YS1	14-DEC-2009 10:52		121409		1.0		AR1660 I-CAL LEVEL 3
037f3701.d	WAR091214-04 60	YS1	14-DEC-2009 11:02		121409		1.0		AR1660 I-CAL LEVEL 4
038f3801.d	WAR091102-01	YS1	14-DEC-2009 11:13		121409		1.0		AR1660 I-CAL LEVEL 5
039f3901.d	WAR091211-60 01	YS1	14-DEC-2009 11:23		121409		1.0		PASSED ON BOTH COLUMNS
040f4001.d	WAR091214-17 68	YS1	14-DEC-2009 11:34		121409		1.0		AR1268 I-CAL LEVEL 1

041f4101.d	WAR091214-18 68	YS1	14-DEC-2009 11:44	121409	1.0	ARI268 I-CAL LEVEL 2
042f4201.d	WAR091214-19 68	YS1	14-DEC-2009 11:55	121409	1.0	ARI268 I-CAL LEVEL 3
043f4301.d	WAR091214-20 68	YS1	14-DEC-2009 12:06	121409	1.0	ARI268 I-CAL LEVEL 4
044f4401.d	IAI090817-02	YS1	14-DEC-2009 12:16	121409	1.0	ARI268 I-CAL LEVEL 5
045f4501.d	WAR091106-68	YS1	14-DEC-2009 12:27	121409	1.0	PASSED ON BOTH COLUMNS
046f4601.d	WAR091020-DDT	YS1	14-DEC-2009 12:37	122409	1.0	DDT ANALOG STANDARD
047f4701.d	WAR091130-99 C2	YS1	14-DEC-2009 12:48	121409	1.0	CLEAN
048f4801.d	1201991693	YS1	14-DEC-2009 12:58	931140	10.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	1201991694	YS1	14-DEC-2009 13:09	931140	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
050f5001.d	242297001	YS1	14-DEC-2009 13:19	931140	10.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
051f5101.d	242297002	YS1	14-DEC-2009 13:30	931140	10.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
052f5201.d	242297003	YS1	14-DEC-2009 13:40	931140	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
053f5301.d	242297004	YS1	14-DEC-2009 13:51	931140	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
054f5401.d	242297005	YS1	14-DEC-2009 14:03	931140	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
055f5501.d	242297006	YS1	14-DEC-2009 14:16	931140	10.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/121409.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
056f5601.d	242297007	YS1	14-DEC-2009 14:29	931140	10-782	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
057f5701.d	242297008	YS1	14-DEC-2009 14:41	931140	10-782	25.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
058f5801.d	WAR091211-60 02	YS1	14-DEC-2009 14:52		121409	1.0		PASSED ON BOTH COLUMNS
059f5901.d	WAR091130-99 03	YS1	14-DEC-2009 15:02		121409	1.0		CLEAN
060f6001.d	242297009	YS1	14-DEC-2009 15:13	931140	10-782	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
061f6101.d	242297010	YS1	14-DEC-2009 15:25	931140	10-782	1.0	LANL	DCB LOW RE
062f6201.d	242297011	YS1	14-DEC-2009 15:38	931140	10-782	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
063f6301.d	242297012	YS1	14-DEC-2009 15:51	931140	10-782	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	242297013	YS1	14-DEC-2009 16:03	931140	10-782	10.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

065f6501.d	242305004	YS1	14-DEC-2009 16:16	931140	10-786	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
066f6601.d	1201991695	YS1	14-DEC-2009 16:28	931140	10-786	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
067f6701.d	1201991696	YS1	14-DEC-2009 16:41	931140	10-786	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
068f6801.d	1242305005	YS1	14-DEC-2009 16:53	931140	10-786	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
069f6901.d	242305006	YS1	14-DEC-2009 17:06	931140	10-786	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
070f7001.d	WAR091211-60 03	YS1	14-DEC-2009 17:19		12:409	1.0		PASSED ON BOTH COLUMNS
071f7101.d	WAR091130-99 04	YS1	14-DEC-2009 17:31		121409	1.0		CLEAN
072f7201.d	1201992645	YS1	14-DEC-2009 17:44	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
073f7301.d	1201992646	YS1	14-DEC-2009 17:57	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
074f7401.d	242264001	YS1	14-DEC-2009 18:09	931553	242264	5.0	ENRG	UPLOAD BOTH COLUMNS, USE HIGHER
075f7501.d	1242521001	YS1	14-DEC-2009 18:22	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/121409.b Page: 4

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
076f7601.d	1201992647	YS1	14-DEC-2009 18:35	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
077f7701.d	1201992648	YS1	14-DEC-2009 18:47	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
078f7801.d	1242521002	YS1	14-DEC-2009 19:00	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
079f7901.d	242521003	YS1	14-DEC-2009 19:12	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
080f8001.d	1242521004	YS1	14-DEC-2009 19:25	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
081f8101.d	1242521005	YS1	14-DEC-2009 19:38	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
082f8201.d	WAR091211-60 04	YS1	14-DEC-2009 19:50		12:409	1.0		PASSED ON BOTH COLUMNS
083f8301.d	WAR091130-99 05	YS1	14-DEC-2009 20:03		121409	1.0		CLEAN
084f8401.d	1242521006	YS1	14-DEC-2009 20:15	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
085f8501.d	1242521007	YS1	14-DEC-2009 20:28	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
086f8601.d	1242521008	YS1	14-DEC-2009 20:41	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
087f8701.d	WAR091211-60 05	YS1	14-DEC-2009 20:53		121409	1.0		PASSED ON BOTH COLUMNS
088f8801.d	WAR091130-99 06	YS1	14-DEC-2009 21:06		121409	1.0		CLEAN
089f8901.d	1242297010	YS1	14-DEC-2009 21:19	931140	10-786	5.0	LANL	

090f9001.d	WAR091211-60 06	YS1	14-DEC-2009 21:31	121409	1.0	PASSED ON BOTH COLUMNS
091f9101.d	WAR091130-99 07	YS1	14-DEC-2009 21:44	121409	1.0	CLEAN
092f9201.d	1660	YS1	14-DEC-2009 21:56	121409	1.0	screen
093f9301.d	1660	YS1	14-DEC-2009 22:09	121409	1.0	screen
094f9401.d	1660	YS1	14-DEC-2009 22:22	121409	1.0	screen

Instrument Batch: /chem/ecdl1a.i/121409.b

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GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 01/13/2010 METHOD: ECD1-F-8082-121409.m OPERATOR: YS1 REVIEWED BY: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 DATE: _____

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/ecdl1.a.i/011210.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 01	YS1	12-JAN-2010 07:48	011210	1.01	CLEAN		
002f0201.d	WAR100104-60 01	YS1	12-JAN-2010 07:59	011210	1.01	DOSE RR FILE 8		
003f0301.d	WAR091216-54	YS1	12-JAN-2010 08:09	011210	1.01	PASSED ON BOTH COLUMNS		
004f0401.d	WAR091217-42	YS1	12-JAN-2010 08:20	011210	1.01	DOSE RR FILE 9		
005f0501.d	WAR091217-48	YS1	12-JAN-2010 08:30	011210	1.01	PASSED ON BOTH COLUMNS		
006f0601.d	WAR100104-32	YS1	12-JAN-2010 08:41	011210	1.01	PATTERN ONLY		
007f0701.d	WAR100104-21	YS1	12-JAN-2010 08:51	011210	1.01	PATTERN ONLY		
008f0801.d	WAR100104-60 01	YS1	12-JAN-2010 09:02	011210	1.01	PASSED ON BOTH COLUMNS		
009f0901.d	WAR091217-42	YS1	12-JAN-2010 09:12	011210	1.01	PASSED ON BOTH COLUMNS		
010f1001.d	WAR100104-62	YS1	12-JAN-2010 09:23	011210	1.01	PATTERN ONLY		
011f1101.d	WAR100111-68	YS1	12-JAN-2010 09:33	011210	1.01	PATTERN ONLY		
012f1201.d	WAR091219-DDT	YS1	12-JAN-2010 09:44	011210	1.01	DDT ANALOG STANDARD		
013f1301.d	WAR100105-99 02	YS1	12-JAN-2010 09:54	011210	1.01	CLEAN		
014f1401.d	1202012930	YS1	12-JAN-2010 10:05	1244363	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER		
015f1501.d	1202012931	YS1	12-JAN-2010 10:15	1244363	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER		

Instrument Batch: /chem/ecdl1.a.i/011210.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1041f4101.d	1244142018	YS1	12-JAN-2010 15:28	1940403	110-1127	1.01LANL	1UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	1WARI00104-60 04	YS1	12-JAN-2010 15:41		1011210	1.01	1PASSED ON BOTH COLUMNS
1043f4301.d	1WARI00105-99 05	YS1	12-JAN-2010 15:51		1011210	1.01	1CLEAN

* An error was found in the initial calibration level 2 for surrogate 4cmx and DCB. The concentration for 1.cai. level 2 was changed from 20ppb to 25ppb on both columns for surrogate 4cmx and DCB in the method to correct the mistake after the data were originally processed. All files in this sequence were re-processed using the corrected method on 01/22/10, and the surrogate concentration was changed slightly. Therefore, the data in Target are slightly different from the ones documented in the original folder.

Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 940402
 Analyst: Andrew Schwemin
 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)
1202012544 MB	11-JAN-2010 19:04:36	30	H2SO4/KM2	2	9	1	0.03333	
1202012545 LCS	11-JAN-2010 19:04:36	30	H2SO4/KM2	2	9	1	0.03333	
244125001	11-JAN-2010 19:04:36	30.12	H2SO4/KM2	2	9	1	0.0332	
244125002	11-JAN-2010 19:04:36	30.03	H2SO4/KM2	2	9	1	0.0333	
244126019	11-JAN-2010 19:04:36	30.08	H2SO4/KM2	2	9	1	0.03324	
1202012546 MS (244126019)	11-JAN-2010 19:04:36	30.05	H2SO4/KM2	2	9	1	0.03328	
1202012547 MSD (244126019)	11-JAN-2010 19:04:36	30.03	H2SO4/KM2	2	9	1	0.0333	
244126020	11-JAN-2010 19:04:36	30.17	H2SO4/KM2	2	9	1	0.03315	
244137001	11-JAN-2010 19:04:36	30.03	H2SO4/KM2	2	9	1	0.0333	
244142001	11-JAN-2010 19:04:36	30.09	H2SO4/KM2	2	9	1	0.03323	
244142002	11-JAN-2010 19:04:36	30.19	H2SO4/KM2	2	9	1	0.03312	
244142003	11-JAN-2010 19:04:36	30.02	H2SO4/KM2	2	9	1	0.03331	
244142004	11-JAN-2010 19:04:36	30.05	H2SO4/KM2	2	9	1	0.03328	
244142005	11-JAN-2010 19:04:36	30.17	H2SO4/KM2	2	9	1	0.03315	
244142006	11-JAN-2010 19:04:36	30.15	H2SO4/KM2	2	9	1	0.03317	
244142007	11-JAN-2010 19:04:36	30.17	H2SO4/KM2	2	9	1	0.03315	
244142008	11-JAN-2010 19:04:36	30.05	H2SO4/KM2	2	9	1	0.03328	
244142017	11-JAN-2010 19:04:36	30.08	H2SO4/KM2	2	9	1	0.03324	
244142018	11-JAN-2010 19:04:36	30.13	H2SO4/KM2	2	9	1	0.03319	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202012545	PCB Laboratory Control	WE100105-07	1	mL	Clean up Date: 01/11/10		
MS	1202012546	PCB Laboratory Control	WE100105-07	1	mL	Clean up Initials: AVS		
MSD	1202012547	PCB Laboratory Control	WE100105-07	1	mL	Verified By: AV		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE091217-15	1	mL	Final Solvent: Hexane		
REGNT All		1:1 sulfuric acid	1133264a	5	mL	Clean Up SOP: GL-OA-E-037		
REGNT All		Acetone	1233927	150	mL			
REGNT All		Hexane	1241300-B2	150	mL			
REGNT All		5% Potassium Permanganate	B1202457-F	5	mL			
SOURC All		SODIUM SULFATE	1248200	30	g			