

Monday, February 15, 2010

Page 1 of 2
REQUEST NUMBER: 10-1864

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: 10-1864
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/15/2010
TURNAROUND/REPORT DUE: 3/17/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:906.0		1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8188	R	2/10/2010	
		1	RE15-10-8189	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8191	R	2/10/2010	
		1	RE15-10-8192	R	2/10/2010	
		1	RE15-10-8193	R	2/10/2010	
		1	RE15-10-8194	R	2/10/2010	

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:906.0						
		1	RE15-10-8195	R	2/10/2010	
		1	RE15-10-8196	R	2/10/2010	
		1	RE15-10-8197	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	
SW-846:8082						
		1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	
SW-846:8321A_MOD						
		1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8188	R	2/10/2010	
		1	RE15-10-8189	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8191	R	2/10/2010	
		1	RE15-10-8192	R	2/10/2010	
		1	RE15-10-8193	R	2/10/2010	
		1	RE15-10-8194	R	2/10/2010	
		1	RE15-10-8195	R	2/10/2010	
		1	RE15-10-8196	R	2/10/2010	
		1	RE15-10-8197	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	

Monday, February 15, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1864C

LOS ALAMOS

REQUEST NUMBER: 10-1864

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/17/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8196	1	POLY	H3	Ice	R
RE15-10-8186	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8186	1	POLY	H3	Ice	R
RE15-10-8194	1	POLY	H3	Ice	R
RE15-10-8189	1	POLY	H3	Ice	R
RE15-10-8188	1	POLY	H3	Ice	R
RE15-10-8187	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8187	1	POLY	H3	Ice	R
RE15-10-8197	1	POLY	H3	Ice	R
RE15-10-8190	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8190	1	POLY	H3	Ice	R
RE15-10-8193	1	POLY	H3	Ice	R
RE15-10-8191	1	POLY	H3	Ice	R
RE15-10-8192	1	POLY	H3	Ice	R
RE15-10-8195	1	POLY	H3	Ice	R
RE15-10-8226	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8226	1	POLY	H3	Ice	R
RE15-10-8211	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8211	1	POLY	H3	Ice	R
RE15-10-8193	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8196	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8192	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8188	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8189	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8191	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8197	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8194	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8195	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

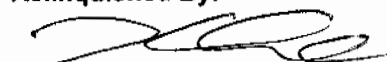
Date

Time

Received By:

Date

Time



2/15/10 3:00

Printed Name

Signature

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8235

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		14:30		SUB-MEDIA:	OTHER		
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610817		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0	0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	W	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90°		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE15-10-8194

SAMPLE COMMENTS:

LOCATION DESC: 7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = dpm
 Beta/Gamma = dpm

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

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J. MARIN

R. Saunders

RELINQUISHED BY (Printed Name) JON MARIN (Signature) <i>Jon R. Marin</i>	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) <i>E. Lujan</i>	Date/Time 2/11/10 08:42	RECEIVED BY (Printed Name) Sherry Sherwood (Signature) <i>Sherry Sherwood</i>	Date/Time 2/11/10 0842

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8194

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	QBT3	QBT 2	
TIME COLLECTED (HH:MM)		14:15		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA	CBS	
LOCATION ID:	15-610817			FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	127.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	126.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	HA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE:	YES/NO/NA			WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:		-90°		BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	2082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Medium grayish pink, moderately indurated, partially welded devitrified, dy, ark flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC: 7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 38 dpm
Beta/Gamma = 2660 dpm

PID Ambient Reading = 1.2 ppm 2/10/10
2/10/10

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon. Marin	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) Estwan Lujan (Signature) E. Lujan	Date/Time 2/11/10 08:44	RECEIVED BY (Printed Name) Sherin Sherwood (Signature) Sherin Sherwood	Date/Time 2/11/10 0846

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8189

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		11:23		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610817			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	49.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	50.0 ft		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		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:	<input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA	BOREHOLE DECLINATION:	-90°	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Light gray, non indurated, non welded, devitrified, dry, ash flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 48 dpm
Beta/Gamma = 2980 dpm

PRM 2/10/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) Estevan Lucian (Signature) E. J.	Date/Time 2/11/10 08:48	RECEIVED BY (Printed Name) Sherri Newwood (Signature) Sherri Newwood	Date/Time 2/11/10 0848

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8197

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	OBT3		QBT1
TIME COLLECTED (HH:MM)		16:30		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610817			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	171.5 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	172.5 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90°		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Light gray, non indurated, non welded, devitrified, dry ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 38 dpm

Beta/Gamma = 322 dpm

ARM 2/10/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) E. Lujan	Date/Time 02/10/10 18:46	RECEIVED BY (Printed Name) Sherrif Newwood (Signature) Sherrif Newwood	Date/Time 02/11/10 0846

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8188

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		11:02		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CB-5
LOCATION ID:	15-610817	1		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	1		FIELD PREP:	NA		1
TOP DEPTH:	0	34.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	35.0 ft		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)	YES			BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION:
							NA

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

SAMPLE DESC:

Medium gray non indurated, locally partially indurated, dehydrified
dry, ark flow +uff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7C-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 33 dpm
Beta/Gamma = 224 dpm

ARM 2/10/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) Estwan Luyon (Signature) E. Luyon	Date/Time 2/4/10 08:46	RECEIVED BY (Printed Name) Sherri Newwood (Signature) Sherri Newwood	Date/Time 2/11/10 846

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8211

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	QBT3		QBT 1
TIME COLLECTED (HH:MM)		16:48		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	UNK	15-610817		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	181.5 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	182.5 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION: XNA

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

SAMPLE DESC:

Light gray, non indurated, non welded, devitrified, dry, ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 28 dpm

Beta/Gamma = 223 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

JON MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/1	(Printed Name)	
(Signature) Jon R. Marin		(Signature)	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/11/10	(Printed Name) Sherrif Sherwood	2/11/10
(Signature) E Lujan	08:42	(Signature) Sherrif Sherwood	842

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8196

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		<u>02/10/2010</u>		MEDIA:		<u>QBT3</u>	
TIME COLLECTED (HH:MM)		<u>15:54</u>		SUB-MEDIA:		<u>TUFF 1</u>	
PRS ID:	<u>15-007(c)</u>	<u>OK</u>		SAMPLE TECH CODE:		<u>HA</u>	
LOCATION ID:	<u>15-610817</u>			FIELD QC TYPE:		<u>NA</u>	
LOCATION TYPE:	<u>GENERIC</u>			FIELD PREP:		<u>NA</u>	
TOP DEPTH:	<u>0</u>	<u>156.0</u>		SAMPLE USAGE:		<u>INV</u>	
BOTTOM DEPTH:	<u>0</u>	<u>157.5</u>		SCREEN/PORT DESC:		<u>N/A</u>	
FIELD MATRIX:	<u>R</u>	<u>OK</u>		EXCAVATED: YES/NO/NA		<u>NO</u>	
COMPOSITE TYPE: <u>NA</u>		COMPOSITE TIME INTERVAL: <u>NA</u>		WATER FLOWING: YES/NO/NA		<u>NO</u>	
BOREHOLE: <u>YES</u> NO/NA		BOREHOLE DECLINATION: <u>-90°</u>		BOREHOLE DIRECTION: <u>N/A</u>			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	<u>156.0</u> 2082+NMED-HEXP	250 ML AMBER GLASS	Ice	<u>Y</u>	
1		H3	500 ML POLY	Ice	<u>Y</u>	
1		Metals+ClO4+CN	500 ML POLY	Ice	<u>Y</u>	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	<u>Y</u>	

SAMPLE DESC:

Light pinkish gray, moderately indurated, slightly welded, devitrified, dry, ash flow tuff

SAMPLE COMMENTS:

N/ALOCATION DESC: 7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 24 dpm
Beta/Gamma = 24 dpm

PID Ambient Reading = ppm 1AM 2/10/10

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J. MARINA. Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) <u>JON MARIN</u>		(Printed Name)	
(Signature) <u>Jon R. Marin</u>		(Signature)	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) <u>Estevan Lujan</u>	<u>2/11/10</u>	(Printed Name) <u>Sherrif Shewood</u>	<u>2/11/10</u>
(Signature) <u>E. Lujan</u>	<u>08:46</u>	(Signature) <u>Sherrif Shewood</u>	<u>846</u>

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8226

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		10 RS 02-10-10		MEDIA:	OBT3		
TIME COLLECTED (HH:MM)		02/02/2010		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	UNK	15-610817		FIELD QC TYPE:	ED		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	18.0 ft		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	20.0 ft		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: (YES) NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	-90°			BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE15-10-8187

Light gray, non indurated to weakly indurated, devitrified, dry, ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = .009 dpm

Beta/Gamma = 2121 dpm

RS
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$
020210

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/11/10	(Printed Name) Shawn Sherwood	2/11/10
(Signature) Jon R. Marin	8:46	(Signature) Shawn Sherwood	8:46

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8195

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/10/2010	MEDIA:	QBT3	QBT 2
TIME COLLECTED (HH:MM)		15:05	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610817		FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0	139.0 ft	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	140.0 ft	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: -90°		
			BOREHOLE DIRECTION:	NA	

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

SAMPLE DESC:

Light reddish gray, strongly indurated, slightly welded, devitrified
dry, ark flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 19 dpm

Beta/Gamma = 2350 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN		(Printed Name)	
(Signature) Jon R. Marin		(Signature)	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/11/10	(Printed Name) Sherry Sherwood	2/11/10
(Signature) E. Lujan	08:46	(Signature) Sherry Sherwood	846

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8187

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/08/2010	RS 02/10/10	MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		10:42		SUB-MEDIA:	TUFF 1		✓
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610817	↓		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	18.0 ft		SAMPLE USAGE:	INV		✓
BOTTOM DEPTH:	0	20.0 ft		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	YES	BOREHOLE DECLINATION:	-90°	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Metals+CIO4+CN	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light gray non indurated to wkly indurated, dehydrified, dry ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7C-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = .009 dpm

Beta/Gamma = 2121 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) JOIK MARIN (Signature) J. R. Marin	Date/Time 2/11/10 08:46 AM	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/11/10 846
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8193

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		13:15		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610817			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	109.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	110.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES <input checked="" type="radio"/> NO <input type="radio"/>			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES <input checked="" type="radio"/> NO <input type="radio"/>			
BOREHOLE: YES <input checked="" type="radio"/> NO <input type="radio"/> NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Light pinkish gray, nonindurated, non welded, devitrified, dry, ash flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC: 7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 19 dpm

Beta/Gamma = 22.80 dpm

ARM 2/10/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J. Marin

R. Saunders

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time	RECEIVED BY (Printed Name) Sherrill Sherwood (Signature) Sherrill Sherwood	Date/Time 2/11/10 846
RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) E Lujan	Date/Time 2/11/10 08:46	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8186

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010	RS 02-10-10	MEDIA:	OBT3		OK
TIME COLLECTED(HH:MM)		10:12		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610817	↓		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	4.0 ft		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	5.0 ft		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	YES			WATER FLOWING: YES/NO/NA	NO		
BOREHOLE DECLINATION:	-90°			BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Light gray nowindurated, nonwelded, devitrified, ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7C-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 14 dpm

Beta/Gamma = 2040 dpm

RS
 210 $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$
 02-07-10

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/11/10 08:46pm	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/11/10 846
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8191

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		12:12		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610817			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	79.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	80.0		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	YES			BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	ARM 2/10/10 882+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light gray, non indurated, non welded, dehydrified, dry, ash flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC: 7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 27 dpm
Beta/Gamma = 2230 dpm

PID Ambient Reading = ppm
ARM 2/10/10

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) Estevan Luyten (Signature) E. Luyten	Date/Time 2/11/10 08:47	RECEIVED BY (Printed Name) Sherrig Sherwood (Signature) Sherrig Sherwood	Date/Time 2/11/10 847

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8192

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		12:47		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		C135
LOCATION ID:	15-610817			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	94.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	95.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE:	<input checked="" type="radio"/> YES/NO/NA			WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	-90°			BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Light gray, non indurated, non welded, dehydrified, dry, ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 24 dpm

Beta/Gamma = 2210 dpm

~~PID~~ Ambient Reading = ARM 2/10/10 ppm

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) E Lujan	Date/Time 2/11/10 08:49	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/11/10 849

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8190

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/10/2010	MEDIA:	QBT3		OK	
TIME COLLECTED (HH:MM)		11:47	SUB-MEDIA:	TUFF 1		OK	
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA		CBS	
LOCATION ID:	15-610817		FIELD QC TYPE:	NA		OK	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA			
TOP DEPTH:	0	64.0 ft	SAMPLE USAGE:	INV			
BOTTOM DEPTH:	0	65.0 ft	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:	-20°		BOREHOLE DIRECTION:	NA

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

SAMPLE DESC:

Light gray non indurated, non welded, devitrified ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7c-4

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 72 dpm
Beta/Gamma = 727 dpm

from 2/10/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J. MARIN

R. Saunders

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time	RECEIVED BY (Printed Name) Shari Sherwood (Signature) Shari Sherwood	Date/Time 2/11/10 847
RELINQUISHED BY (Printed Name) Estwan Lujan (Signature) E. Lujan	Date/Time 2/11/10 08:47	RECEIVED BY (Printed Name) (Signature)	Date/Time



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-10-00228
Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment [SO])
Analysis Test Method: GPC-A-003

Request or PO Number: N/A
Data Received: 2/12/2010
Report Date: 02/15/10 07:44

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00228-001	RE15-10-7996	GROSS ALPHA	7.623	5.064	15.263	4.908	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-001	RE15-10-7996	GROSS BETA	30.951	5.512	7.839	3.388	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-002	RE15-10-7997	GROSS ALPHA	11.340	5.502	12.709	3.653	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-002	RE15-10-7997	GROSS BETA	47.145	7.387	7.778	3.365	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-003	RE15-10-7999	GROSS ALPHA	7.792	4.778	13.241	3.806	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-003	RE15-10-7999	GROSS BETA	34.471	5.934	7.804	3.361	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-004	RE15-10-8000	GROSS ALPHA	4.591	4.196	14.629	4.528	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-004	RE15-10-8000	GROSS BETA	22.584	4.491	7.677	3.321	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-005	RE15-10-8064	GROSS ALPHA	21.461	7.763	14.970	4.633	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-005	RE15-10-8064	GROSS BETA	27.597	5.295	8.406	3.656	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-006	RE15-10-7903	GROSS ALPHA	5.296	4.447	14.634	4.384	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-006	RE15-10-7903	GROSS BETA	47.454	7.506	8.308	3.604	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-007	RE15-10-7904	GROSS ALPHA	-1.541	2.172	14.555	4.488	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-007	RE15-10-7904	GROSS BETA	36.976	6.163	7.881	3.416	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-008	RE15-10-7993	GROSS ALPHA	8.529	5.410	16.003	5.087	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-008	RE15-10-7993	GROSS BETA	31.765	5.653	8.089	3.505	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-009	RE15-10-7994	GROSS ALPHA	3.415	3.663	13.344	3.879	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-009	RE15-10-7994	GROSS BETA	27.014	5.083	8.229	3.586	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-010	RE15-10-7995	GROSS ALPHA	9.574	5.507	14.920	4.509	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-010	RE15-10-7995	GROSS BETA	36.009	6.221	8.671	3.791	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-011	RE15-10-8211	GROSS ALPHA	8.633	5.057	13.430	3.737	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-011	RE15-10-8211	GROSS BETA	39.519	6.561	8.094	3.503	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-012	RE15-10-8197	GROSS ALPHA	4.894	4.393	15.092	4.636	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-012	RE15-10-8197	GROSS BETA	31.269	5.695	9.020	3.971	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-013	RE15-10-8196	GROSS ALPHA	2.274	3.727	14.872	4.620	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-013	RE15-10-8196	GROSS BETA	34.700	5.960	8.084	3.505	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-014	RE15-10-8195	GROSS ALPHA	4.392	4.076	13.911	4.273	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-014	RE15-10-8195	GROSS BETA	42.456	6.861	8.113	3.525	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-015	RE15-10-8194	GROSS ALPHA	2.876	3.481	13.264	3.973	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-015	RE15-10-8194	GROSS BETA	33.730	5.806	7.745	3.339	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-016	RE15-10-8193	GROSS ALPHA	0.179	3.624	17.117	5.788	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-016	RE15-10-8193	GROSS BETA	29.486	5.340	8.105	3.521	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-017	RE15-10-8192	GROSS ALPHA	13.355	6.234	14.667	4.470	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-017	RE15-10-8192	GROSS BETA	23.264	4.765	8.471	3.694	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-018	RE15-10-8191	GROSS ALPHA	2.359	4.003	16.220	5.074	U	PC/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-018	RE15-10-8191	GROSS BETA	40.055	6.879	10.337	4.609	U	PC/g	2/12/2010	JB	N/A	SO	



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-10-00228

Request or PO Number: N/A

Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment (SO))

Date Received: 2/12/2010

Analysis Test Method: GPC-A-003

Report Date: 02/15/10 07:44

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Trace/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00228-019	RE15-10-8190	GROSS ALPHA	10.024	5.676	15.370	4.886	U	pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-019	RE15-10-8190	GROSS BETA	38.359	6.416	7.917	3.414	U	pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-020	RE15-10-8189	GROSS ALPHA	8.989	5.304	14.526	4.427	U	pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-020	RE15-10-8189	GROSS BETA	34.835	6.054	8.280	3.589		pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-021	RE15-10-8188	GROSS ALPHA	2.474	5.299	21.334	7.787	U	pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-021	RE15-10-8188	GROSS BETA	27.364	5.137	8.104	3.504		pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-022	RE15-10-8186	GROSS ALPHA	4.887	4.467	15.588	5.141	U	pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-022	RE15-10-8186	GROSS BETA	31.889	5.603	7.806	3.373		pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-023	RE15-10-8187	GROSS ALPHA	6.917	5.155	16.662	5.545	U	pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-023	RE15-10-8187	GROSS BETA	34.554	5.954	7.914	3.416		pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-024	RE15-10-8226	GROSS ALPHA	17.289	6.843	14.870	4.782		pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-024	RE15-10-8226	GROSS BETA	26.749	5.129	8.135	3.531		pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-025	RE15-10-7998	GROSS ALPHA	9.482	5.349	14.293	4.515	U	pc/g	2/12/2010	JB	N/A	SO	
ARS1-10-00228-025	RE15-10-7998	GROSS BETA	29.179	5.309	7.828	3.385		pc/g	2/12/2010	JB	N/A	SO	
NOTES:													

Project Manager Review

Warning: 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.

LEIAP Certificate# 01949

NEIAP Certificate # E87558

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1864 VALIDATION DATE: 04/21/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Lisa Burgess ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

- The RRFs for the ICAL were <0.05 but ≥ 0.01 for 2-amino-4,6-dinitrotoluene; PETN; m-nitrotoluene; o-nitrotoluene and p-nitrotoluene for samples RE15-10-8186 through -8197. The RRFs for the ICAL were <0.05 but ≥ 0.01 for PETN; m-nitrotoluene; o-nitrotoluene and p-nitrotoluene for samples -8226 and -8211. The associated sample results were NDs and, thus, were qualified UJ,HE7b.
- The CCV %D was $>20\%$ but $\leq 40\%$ with negative bias for HMX for samples -8186 through -8197. The sample results were NDs and, thus, were qualified UJ,HE7c. The CCV %D was $>20\%$ with positive bias for PETN for samples -8186 through -8197 and the ICV %Ds were $>20\%$ with positive bias for m-nitrotoluene and p-nitrotoluene for samples -8226 and -8211. The associated sample results were NDs and, thus, were not qualified.
- It should be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate retention time criteria could not be evaluated. No sample data were qualified as a result.
- The LCS %D was $<$ the laboratory LAL but $\geq 10\%$ for tetryl. The associated sample results were NDs and, thus, were qualified UJ,HE12a. The LCS %D was $>$ the laboratory UAL for o-nitrotoluene. The associated sample results were NDs and, thus, were not qualified.
- The MS %D was $>$ the laboratory UAL for TATB. The associated sample results were NDs and, thus, were not qualified. The MS/MSD %RPD was $>$ the laboratory limit for TATB. The associated sample results were NDs and, thus, were qualified UJ,HE12g.

Reviewed by: Mary Donovan

Level: I

Date: 04/21/10

DATA VALIDATION COVER SHEET

5122-1


Data Validation Cover Sheet

Records Use only


VALIDATOR'S SIGNATURE: *[Signature]*DATE: 04/21/10

Form 5122-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

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

Yes No N/A				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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of < 0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired	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
			calibration. Contact the SMO or external laboratory for information.		
<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix	UJ, R, HE15	R, HE15

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	
				Non-detected Analyte	Detected Analyte
			interference.)		
<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
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, HE19	J, R, HE19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330019.wiff

Date Analyzed: 30-MAR-10 16:32

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: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100084.wiff

Date Analyzed: 11-MAR-10 13:14

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8186

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193002

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330022.wiff

Date Analyzed: 30-MAR-10 17:51

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: RE15-10-8186

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193002

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100087.wiff

Date Analyzed: 11-MAR-10 14:02

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	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: RE15-10-8194

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330026.wiff

Date Analyzed: 30-MAR-10 19:37

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: RE15-10-8194

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100088.wiff

Date Analyzed: 11-MAR-10 14:17

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8189

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330027.wiff

Date Analyzed: 30-MAR-10 20:03

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: RE15-10-8189

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100089.wiff

Date Analyzed: 11-MAR-10 14:33

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ.HE12g	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		

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8188

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193005

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330028.wiff

Date Analyzed: 30-MAR-10 20:29

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: RE15-10-8188

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: BXS03100090.wiff

Date Analyzed: 11-MAR-10 14:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	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: RE15-10-8187

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330029.wiff

Date Analyzed: 30-MAR-10 20:56

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: RE15-10-8187

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100091.wiff

Date Analyzed: 11-MAR-10 15:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8197

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330030.wiff

Date Analyzed: 30-MAR-10 21:22

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 UJ,HE7c	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene UJ,HE7b	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7b	1000	U
88-72-2	o-Nitrotoluene UJ,HE7b	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene UJ,HE7b	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	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: RE15-10-8197

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193007

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 254324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100095.wiff

Date Analyzed: 11-MAR-10 16:07

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	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 Amoun		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8190

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193008

Sample Amount 2

Moisture: .9

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330031.wiff

Date Analyzed: 30-MAR-10 21:49

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: RE15-10-8190

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193008

Sample Amount 2

Molsture: 2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100096.wiff

Date Analyzed: 11-MAR-10 16:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution Factor
Sample Amount

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8193

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330032.wiff

Date Analyzed: 30-MAR-10 22:15

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 X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8193

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100097.wiff

Date Analyzed: 11-MAR-10 16:39

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	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: RE15-10-8191

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193010

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330033.wiff

Date Analyzed: 30-MAR-10 22:41

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: RE15-10-8191

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100028.wiff

Date Analyzed: 11-MAR-10 16:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8192

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330034.wiff

Date Analyzed: 30-MAR-10 23:08

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: RE15-10-8192

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100099.wiff

Date Analyzed: 11-MAR-10 17:10

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	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: RE15-10-8195

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330035.wiff

Date Analyzed: 30-MAR-10 23:34

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8195

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100100.wiff

Date Analyzed: 11-MAR-10 17:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ.HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8226

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193013

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0401013.wiff

Date Analyzed: 01-APR-10 16:54

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 UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7b	1000	U
88-72-2	o-Nitrotoluene UJ,HE7b	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene UJ,HE7b	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	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: RE15-10-8226

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193013

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100101.wiff

Date Analyzed: 11-MAR-10 17:41

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8211

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193014

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0401014.wiff

Date Analyzed: 01-APR-10 17:21

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	UJ,HE12a 500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	UJ,HE7b 1000	U
88-72-2	o-Nitrotoluene	UJ,HE7b 500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	UJ,HE7b 500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b 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: RE15-10-8211

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193014

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100102.wiff

Date Analyzed: 11-MAR-10 17:57

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	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

DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1864 VALIDATION DATE: 04/21/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Lisa Burgess ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

1. It should be noted that the MS/MSD was performed on a sample from another LANL RN. Parent sample raw data were not included in the data package. No sample data were qualified as a result.

Reviewed by: Mary DonovanLevel: IDate: 04/21/10VALIDATOR'S SIGNATURE: *Lisa Burgess*DATE: 04/21/10

Form 5116-1, Revision 0.0

LOS ALAMOS
Environmental Restoration Project

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

5116-2

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

Records Use only



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

**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"/>	20. The surrogate is <10%R. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but ≥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

**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"/>	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
<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: 10-1864
Lab Sample ID: 247193002

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1AJ
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8186
Batch ID: 956221
Run Date: 02/24/2010 13:48
Prep Date: 02/23/2010 11:04
Data File: 040f4001.d
040b4001.d

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

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193006

Client ID: RE15-10-8187
Batch ID: 956221
Run Date: 02/24/2010 14:00
Prep Date: 02/23/2010 11:04
Data File: 041f4101.d
041b4101.d

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 2.5
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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193008

Client ID: RE15-10-8190
Batch ID: 956221
Run Date: 02/24/2010 14:13
Prep Date: 02/23/2010 11:04
Data File: 042f4201.d
042b4201.d

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Allquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: .9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Paramname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	U	3.36	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	U	3.36	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193014

Client ID: RE15-10-8211
Batch ID: 956221
Run Date: 02/24/2010 14:38
Prep Date: 02/23/2010 11:04
Data File: 044f4401.d
044b4401.d

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 1.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

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

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193013

Client ID: RE15-10-8226
Batch ID: 956221
Run Date: 02/24/2010 14:25
Prep Date: 02/23/2010 11:04
Data File: 043f4301.d
043b4301.d

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 2.4
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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

DATA VALIDATION COVER SHEET

5119-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1864 VALIDATION DATE: 04/21/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Lisa Burgess ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

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

- The percent moisture values were not noted on the FIs for samples RE15-10-8188, -8189, -8191 through -8197. No sample data were qualified per client instructions.
- The matrix QC analyses were performed on a LANL sample from another RN for analytical method GL-RAD-A-002. No sample data were qualified as a result.

Reviewed by: Mary Donovan

Level: I


Date: 04/21/10

VALIDATOR'S SIGNATURE:


DATE: 04/21/10

Form 5119-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

RAD ANALYTICAL DATA VALIDATION CHECKLIST	
5119-2 Rad 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, R9	J-, R9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, R9a	J-, R9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The results for the affected analytes are considered not detected (U) because the associated sample concentration was less than or equal to the MDC.	U, R5	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The analyte should be regarded as rejected because spectral interferences prevent positive identification of the analytes.	R, R5a	R, R5a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The MDC and/or TPU documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, R5b	J-, R5b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. The results for the affected analytes should be regarded as not detected (U) because the associated sample concentration was less than 3X the 1 sigma TPU.	U, R11	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, R4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5X.	N/A	J, R4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, R4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, R4e	R, R4e
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The tracer is <10%R. Follow the external laboratory limits located within the associated data package. Tracer%R is not applicable for	R, R3	R, R3

RAD ANALYTICAL DATA VALIDATION CHECKLIST	
5119-2 Rad 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
			Gamma Spectroscopy.		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The tracer is < the Lower Acceptance Level (LAL) but $\geq 10\%R$. Follow the external laboratory limits located within the associated data package. Tracer%R is not applicable for Gamma Spectroscopy.	UJ, R3a	J-, R3a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13. The Tracer%R value is > the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package. Tracer%R is not applicable for Gamma Spectroscopy.	N/A	J+, R3b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. Required tracer information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Tracer%R is not applicable for Gamma Spectroscopy.	R, R3d	R, R3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, R12	R, R12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, R12a	J-, R12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, R12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, R12c	R, R12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Associated duplicate sample has DER or RER > the analytical laboratory's acceptance limits.	R, R10	J, J10
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the	R, R6	R, R6

RAD ANALYTICAL DATA VALIDATION CHECKLIST	
5119-2 Rad 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
			SMO or external laboratory for information.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The associated matrix spike recovery was <10%. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.	R, R6	R, R6
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The associated matrix spike recovery was <10%. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.	UJ, R6a	J-, R6a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.	UJ, R6b	J+, R6b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If LCS information is present, do not Reject. Qualify data based on LCS information. MS/MSD is not applicable to Gamma Spectroscopy.	R, R6c	R, R6c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Duplicate, dilution, or reanalysis.	UJ, R88	J, R88
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, R19	J, R, R19
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27. Quantification 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

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8196
Sample ID: 247193001
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	1.23	4.14	+/-1.24	6.00	pCi/g		KXK2	03/08/10	1603	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
 - > Result is greater than value reported
 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8186
Sample ID: 247193002
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 1.16%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
<i>"As Received"</i>												
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	1.69	4.11	+/-1.25	6.00	pCi/g		KXK2	03/08/10	1650	961331	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

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- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8194
Sample ID: 247193003
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	0.966	4.14	+/-1.23	6.00	pCi/g		KXK2	03/08/10	1738	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8189
Sample ID: 247193004
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium		38.6	4.15	+/-4.93	6.00	pCi/g		KXK2	03/08/10	1825	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8188
Sample ID: 247193005
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>H3 "As Received"</i>												
Tritium		1.82E+05	286	+/-12800	250	pCi/L		KXK2	03/04/10	0714	956741	1

The following Analytical Methods were performed

Method	Description
1	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

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- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8187
Sample ID: 247193006
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 2.49%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
"As Received"												
Rad Liquid Scintillation Analysis												
H3 "As Received"												
Tritium		89400	182	+/-6290	250	pCi/L		KXX2	03/04/10	0728	956741	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

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 - C Analyte has been confirmed by GC/MS analysis
 - D Results are reported from a diluted aliquot of the sample
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8197
Sample ID: 247193007
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>H3 "As Received"</i>												
Tritium		22100	157	+/-1570	250	pCi/L		KXK2	03/04/10	0749	956741	1

The following Analytical Methods were performed

Method	Description
1	GL-RAD-A-002

Notes:

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- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8190
Sample ID: 247193008
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: .925%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
"As Received"												
Rad Liquid Scintillation Analysis												
LSC, Tritium Dist, Solid "As Received"												
Tritium		127	4.13	+/-15.1	6.00	pCi/g		KXX2	03/08/10	1912	961331	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

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- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8193
Sample ID: 247193009
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	0.0665	4.13	+/-1.19	6.00	pCi/g		KXX2	03/08/10	1959	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8191
Sample ID: 247193010
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium		14.7	4.08	+/-2.31	6.00	pCi/g		KXK2	03/08/10	2046	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8192
Sample ID: 247193011
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	3.87	4.11	+/-1.37	6.00	pCi/g		KXK2	03/08/10	2159	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8195
Sample ID: 247193012
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>H3 "As Received"</i>												
Tritium		28000	137	+/-1980	250	pCi/L		KXK2	03/04/10	0852	956741	1

The following Analytical Methods were performed

Method	Description
1	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8226
Sample ID: 247193013
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 2.43%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
"As Received"												
Rad Liquid Scintillation Analysis												
H3 "As Received"												
Tritium		86900	178	+/-6110	250	pCi/L		KXK2	03/04/10	0955	956741	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
 - > Result is greater than value reported
 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8211
Sample ID: 247193014
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 1.23%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
<i>"As Received"</i>												
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	0.867	4.14	+/-1.22	6.00	pCi/g	KXK2	03/08/10	2246	961331	2	

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

Monday, February 15, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1864C

LOS ALAMOS

REQUEST NUMBER: 10-1864

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/17/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247193

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8196	1	POLY	H3	Ice	R
RE15-10-8186	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8186	1	POLY	H3	Ice	R
RE15-10-8194	1	POLY	H3	Ice	R
RE15-10-8189	1	POLY	H3	Ice	R
RE15-10-8188	1	POLY	H3	Ice	R
RE15-10-8187	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8187	1	POLY	H3	Ice	R
RE15-10-8197	1	POLY	H3	Ice	R
RE15-10-8190	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8190	1	POLY	H3	Ice	R
RE15-10-8193	1	POLY	H3	Ice	R
RE15-10-8191	1	POLY	H3	Ice	R
RE15-10-8192	1	POLY	H3	Ice	R
RE15-10-8195	1	POLY	H3	Ice	R
RE15-10-8226	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8226	1	POLY	H3	Ice	R
RE15-10-8211	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8211	1	POLY	H3	Ice	R
RE15-10-8193	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8196	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8192	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8188	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8189	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8191	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8197	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8194	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8195	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Monday, February 15, 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: 10-1864

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/15/2010

TURNAROUND/REPORT DUE: 3/17/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:906.0	1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8188	R	2/10/2010	
		1	RE15-10-8189	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8191	R	2/10/2010	
		1	RE15-10-8192	R	2/10/2010	
		1	RE15-10-8193	R	2/10/2010	
		1	RE15-10-8194	R	2/10/2010	

Monday, February 15, 2010

REQUEST NUMBER: 10-1864

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-908.0	1	RE15-10-8195	R	2/10/2010	
		1	RE15-10-8196	R	2/10/2010	
		1	RE15-10-8197	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	
	SW-846:8082	1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	
	SW-846:8321A_MOD	1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8188	R	2/10/2010	
		1	RE15-10-8189	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8191	R	2/10/2010	
		1	RE15-10-8192	R	2/10/2010	
		1	RE15-10-8193	R	2/10/2010	
		1	RE15-10-8194	R	2/10/2010	
		1	RE15-10-8195	R	2/10/2010	
		1	RE15-10-8196	R	2/10/2010	
		1	RE15-10-8197	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	

Final Page of REQUEST NUMBER 10-1864



February 18, 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: 247193
SDG: 10-1864

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 16, 2010, and analyzed for Explosives by LCMSMS, GC Semivolatile PCB and Radiochemistry. 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: 10-1864
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247193
SDG: 10-1864

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247193
SDG # : 10-1864**

February 18, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 16, 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. The containers for radiochemistry were received at 9-11C temperatures. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

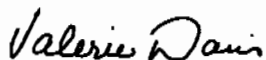
<u>Laboratory ID</u>	<u>Client ID</u>
247193001	RE15-10-8196
247193002	RE15-10-8186
247193003	RE15-10-8194
247193004	RE15-10-8189
247193005	RE15-10-8188
247193006	RE15-10-8187
247193007	RE15-10-8197
247193008	RE15-10-8190
247193009	RE15-10-8193
247193010	RE15-10-8191
247193011	RE15-10-8192
247193012	RE15-10-8195
247193013	RE15-10-8226
247193014	RE15-10-8211

Case Narrative

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

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

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 18 February 2010

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

Chain of Custody and Supporting Documentation

Monday, February 15, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1864C

LOS ALAMOS

REQUEST NUMBER: 10-1864

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/17/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247193

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8196	1	POLY	H3	Ice	R
RE15-10-8186	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8186	1	POLY	H3	Ice	R
RE15-10-8194	1	POLY	H3	Ice	R
RE15-10-8189	1	POLY	H3	Ice	R
RE15-10-8188	1	POLY	H3	Ice	R
RE15-10-8187	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8187	1	POLY	H3	Ice	R
RE15-10-8197	1	POLY	H3	Ice	R
RE15-10-8190	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8190	1	POLY	H3	Ice	R
RE15-10-8193	1	POLY	H3	Ice	R
RE15-10-8191	1	POLY	H3	Ice	R
RE15-10-8192	1	POLY	H3	Ice	R
RE15-10-8195	1	POLY	H3	Ice	R
RE15-10-8226	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8226	1	POLY	H3	Ice	R
RE15-10-8211	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8211	1	POLY	H3	Ice	R
RE15-10-8193	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8196	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8192	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8188	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8189	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8191	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8197	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8194	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8195	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Monday, February 15, 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: 10-1864
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/15/2010
TURNAROUND/REPORT DUE: 3/17/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:906.0	1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8188	R	2/10/2010	
		1	RE15-10-8189	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8191	R	2/10/2010	
		1	RE15-10-8192	R	2/10/2010	
		1	RE15-10-8193	R	2/10/2010	
		1	RE15-10-8194	R	2/10/2010	

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-806.0	1	RE15-10-8195	R	2/10/2010	
		1	RE15-10-8196	R	2/10/2010	
		1	RE15-10-8197	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	
	SW-846:8082	1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	
	SW-846:8321A_MOD	1	RE15-10-8186	R	2/10/2010	
		1	RE15-10-8187	R	2/10/2010	
		1	RE15-10-8188	R	2/10/2010	
		1	RE15-10-8189	R	2/10/2010	
		1	RE15-10-8190	R	2/10/2010	
		1	RE15-10-8191	R	2/10/2010	
		1	RE15-10-8192	R	2/10/2010	
		1	RE15-10-8193	R	2/10/2010	
		1	RE15-10-8194	R	2/10/2010	
		1	RE15-10-8195	R	2/10/2010	
		1	RE15-10-8196	R	2/10/2010	
		1	RE15-10-8197	R	2/10/2010	
		1	RE15-10-8211	R	2/10/2010	
		1	RE15-10-8226	R	2/10/2010	



SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1864		
Received By: Greg Tyler			Date Received: 2/16/10		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 60CPM	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1-6C 9-11C
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11	Number of containers received match number indicated on COC?	X		X	Sample ID's affected: RE15-10-8226-1/2 the lab did not rec any containers
12	COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers:

7209 7850 0680 1C	7209 7850 0750 3C	7209 7850 0809 6C
7209 7850 0831 1C	7209 7850 0706 4C	7209 7850 0647 9C
7209 7850 0783 1C	7209 7850 0739 4C	7209 7850 0636 9C
7209 7850 0740 2C	7209 7850 0717 4C	7209 7850 0670 10C
7209 7850 0820 2C	7209 7850 0728 4C	7209 7850 0658 11C
7209 7850 0794 2C	7209 7850 0772 5C	7209 7850 0669 11C
7209 7850 0810 2C	7209 7850 0691 5C	
7209 7850 0842 3C	7209 7850 0761 5C	

PM (or PMA) review: Initials MT Date 2/17/10

JOYLENE VALDEZ (505) 666-9968
OS ALAMOS NATL LAB
TR00 BLDG 1237 DPU 03

SHIP DATE: 15FEB10
ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TR00 BLDG 1237 DPU 03

SHIP DATE: 15FEB10
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

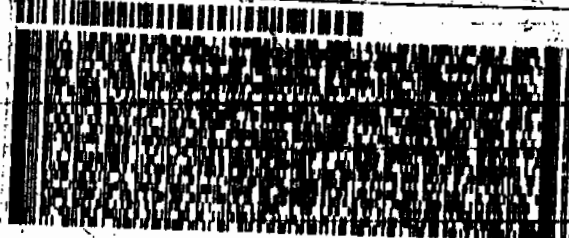
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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(843) 566-8171
REF: 68010AMR3A0532VA00

(843) 566-8171
REF: 68010AMR3A05529E00



2 of 2
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Matr# 7209 7850 0670 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
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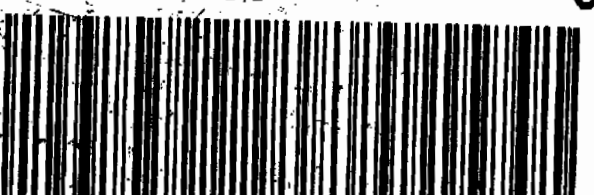


1 of 2
TRK# 7209 7850 0831
MASTER #

TUE - 16FEB A1
PRIORITY OVERNIGHT

XX CHSA

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ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TR00 BLDG 1237 DPU 03

SHIP DATE: 15FEB10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TR00 BLDG 1237 DPU 03

SHIP DATE: 15FEB10
ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

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REF: 68010AMR3A05529E00



2 of 2
MPS# 7209 7850 0740
Matr# 7209 7850 0739 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

XX CHSA

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1 of 3
MPS# 7209 7850 0783
MASTER #

TUE - 16FEB A1
PRIORITY OVERNIGHT

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ORIGIN ID: SAFR (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

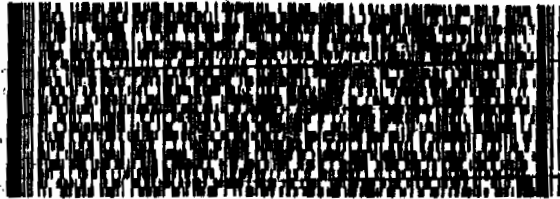
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VALERIE DAVIS
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155148-434 NRTT V3 09-09



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TAGS BLDG 1237 DPU 83

SHIP DATE: 15FEB10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449

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Matr# 7209 7850 0810 0201
TUE - 16FEB A1
PRIORITY OVERNIGHT
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ORIGIN ID: SAFR (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449

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TAGS BLDG 1237 DPU 83
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UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449

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2 of 2
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Matr# 7209 7850 0831 0201
TUE - 16FEB A1
PRIORITY OVERNIGHT
XX CHSA
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1 of 2
MPS# 7209 7850 0810
Matr# 7209 7850 0810
TUE - 16FEB A1
PRIORITY OVERNIGHT
XX CHSA
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SC-US
CHS



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

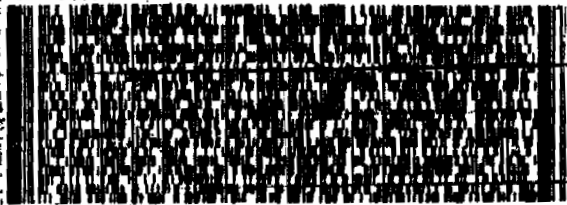
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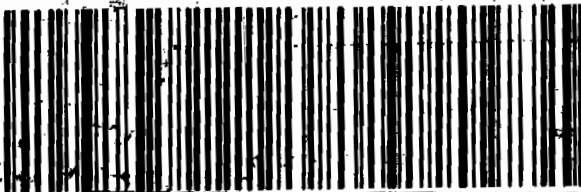


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TUE - 16FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

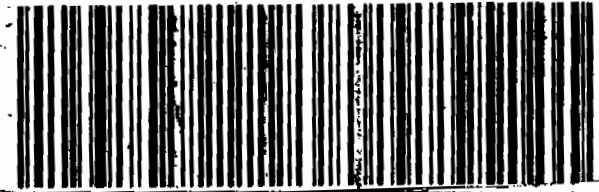


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TRKH 7209 7850 0750
NN MASTER NN

TUE - 16FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

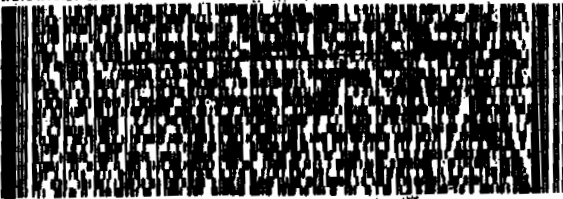
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TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
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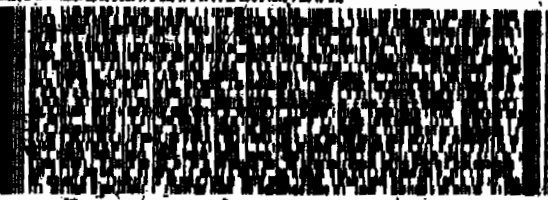
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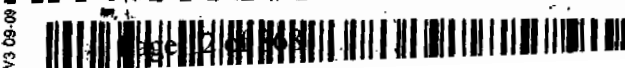


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NN MASTER NN

TUE - 16FEB A1
PRIORITY OVERNIGHT

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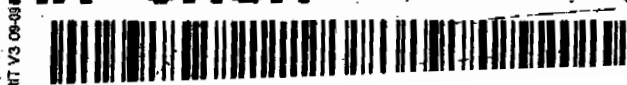


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NN MASTER NN

TUE - 16FEB A1
PRIORITY OVERNIGHT

29407
SC-US
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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2040 SAVAGE RD

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REF: 6B010AMR3A0532VA00

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 61.0 LB MAN
CAD: 0014176/CAFE2449

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3 of 3
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Matr# 7209 7850 0750 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

XX CHSA

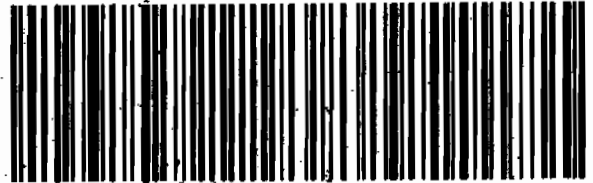
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2 of 2
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Matr# 7209 7850 0717 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 59.0 LB MAN
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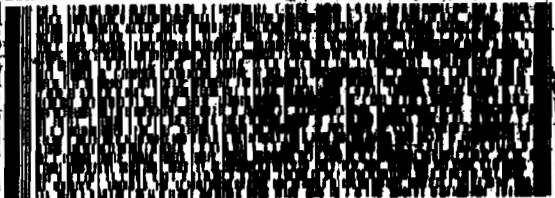
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A0532VA00

0014176/CAFE2449



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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 39.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 6B010AMR3A0532VA00

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1 of 2
TRK# 0201 7209 7850 0691
NN MASTER NN

TUE - 16FEB A1
PRIORITY OVERNIGHT

XX CHSA 868

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2 of 3
MPS# 0263 7209 7850 0761
Matr# 7209 7850 0750 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

ORIGIN ID: SAFA (605) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 64.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

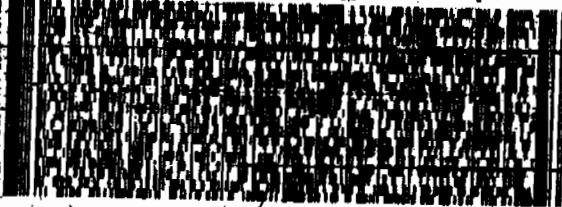
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 6B010AMR2A0515BYD0

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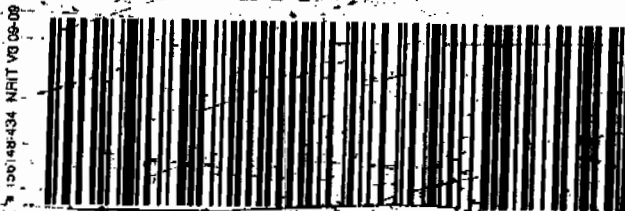
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Matr# 7209 7850 0825 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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ORIGIN ID: SAFA (605) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 62.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A0532VA00

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1 of 2
TRK# 0201 7209 7850 0670

MM MASTER MM

TUE - 16FEB A1
PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (605) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A05529E00

0014176/CAFE2449



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3 of 3
MPS# 0263 7209 7850 0809

Matr# 7209 7850 0783 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

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SC-US
CHS

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ORIGIN ID: SAFA (605) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 71.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A0515BYD0

0014176/CAFE2449



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2 of 3
MPS# 0263 7209 7850 0636

Matr# 7209 7850 0625 0201

TUE - 16FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 15FEB10
ACTWGT: 60.0 LB MAN
CAD: 00141756SAFE2449

BILL RENDER

JOYLENE VALDEZ
LOS ALAMOS NATL LAB.
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(B43), 656-0171

REF: 6B010AMR3A0532VA00

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-0171

REF: 6B010AMR3A0532VA00

FedEx

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1 of 2
TRK# 7209 7850 0658
0201
MASTER

TUE - 16FEB AL
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

156148-434 NRIT V3 09-09



2 of 2
NPS# 7209 7850 0669
0263
Matr# 7209 7850 065

Matr-N 7209 7850 0638 0201

XX CHSA

11 158148-434 NRIT V3 09-08 1

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	10	10
2	30	30
3	50	50
4	60	60
5	65	65
6	68	68
7	70	70
8	72	72
9	75	75
10	78	78

TUE - 16FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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 10-1864**

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: 954328

Prep Batch Number: 954324

Sample Analysis

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

Sample ID	Client ID
247193001	RE15-10-8196
247193002	RE15-10-8186
247193003	RE15-10-8194
247193004	RE15-10-8189
247193005	RE15-10-8188
247193006	RE15-10-8187
247193007	RE15-10-8197
247193008	RE15-10-8190
247193009	RE15-10-8193
247193010	RE15-10-8191
247193011	RE15-10-8192
247193012	RE15-10-8195
247193013	RE15-10-8226
247193014	RE15-10-8211
1202045748	Method Blank (MB)
1202045749	Laboratory Control Sample (LCS)
1202045750	247193001(RE15-10-8196) Matrix Spike (MS)
1202045751	247193001(RE15-10-8196) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

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

Primary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS recovered Tetryl at 29% with limits of 51-112% and o-Nitrotoluene at 122% with limits of 72-119%. The MS and MSD met acceptance criteria for Tetryl and O-Nitrotoluene. The data are reported. Please see data exception report 815646.

QC Sample Designation

Sample 247193001 (RE15-10-8196) 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 in this SDG.

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

The SDG was re-analyzed due to a CVS and/or a CRI failing acceptance criteria. Several samples and/or QC did not pass acceptance criteria in the first re-analysis also due to a CVS and/or a CRI failing acceptance criteria. They were further re-analyzed and passed acceptance criteria. The last re-analysis in each case is reported.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 247193001 (RE15-10-8196) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered TATB at 199%. The limits are 29-155%. The LCS and the MSD had passing recoveries for TATB. TATB was not detected in the parent sample. The data are considered unaffected and are reported. Please see data exception report 815646.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The MS /MSD RPD for TATB was 49.9%. The limit is 30%. TATB was not detected in the parent sample. The data are reported. Please see data exception report 815646.

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 report 815646 was generated for this SDG.

The LCS recovered Tetryl at 29% with limits of 51-112% and o-Nitrotoluene at 122% with limits of 72-119%. The MS and MSD met acceptance criteria for Tetryl and o-Nitrotoluene. The data are reported.

The MS recovered TATB at 199%. The limits are 29-155%. The LCS and the MSD had passing recoveries for TATB. TATB was not detected in the parent sample. The data are considered unaffected and are reported.

The MS /MSD RPD for TATB was 49.9%. The limit is 30%. TATB was not detected in the parent sample. The data are reported.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

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

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Robert N. Mann Date: 04/12/10

SAMPLE DATA SUMMARY

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330019.wiff

Date Analyzed: 30-MAR-10 16:32

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: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100084.wiff

Date Analyzed: 11-MAR-10 13:14

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8186

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193002

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330022.wiff

Date Analyzed: 30-MAR-10 17:51

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: RE15-10-8186

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193002

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100087.wiff

Date Analyzed: 11-MAR-10 14:02

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8194

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330026.wiff

Date Analyzed: 30-MAR-10 19:37

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: RE15-10-8194

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100088.wiff

Date Analyzed: 11-MAR-10 14:17

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8189

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330027.wiff

Date Analyzed: 30-MAR-10 20:03

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: RE15-10-8189

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193004

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100089.wiff

Date Analyzed: 11-MAR-10 14:33

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8188

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330028.wiff

Date Analyzed: 30-MAR-10 20:29

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: RE15-10-8188

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100090.wiff

Date Analyzed: 11-MAR-10 14:49

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8187

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330029.wiff

Date Analyzed: 30-MAR-10 20:56

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: RE15-10-8187

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100091.wiff

Date Analyzed: 11-MAR-10 15:04

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8197

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330030.wiff

Date Analyzed: 30-MAR-10 21:22

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: RE15-10-8197

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100095.wiff

Date Analyzed: 11-MAR-10 16:07

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8190

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193008

Sample Amount 2

Moisture: 9

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330031.wiff

Date Analyzed: 30-MAR-10 21:49

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: RE15-10-8190

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193008

Sample Amount 2

Moisture: .9

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100096.wiff

Date Analyzed: 11-MAR-10 16:23

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8193

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330032.wiff

Date Analyzed: 30-MAR-10 22:15

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: RE15-10-8193

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100097.wiff

Date Analyzed: 11-MAR-10 16:39

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: RE15-10-8191

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330033.wiff

Date Analyzed: 30-MAR-10 22:41

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: RE15-10-8191

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100098.wiff

Date Analyzed: 11-MAR-10 16:54

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8192

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330034.wiff

Date Analyzed: 30-MAR-10 23:08

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: RE15-10-8192

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100099.wiff

Date Analyzed: 11-MAR-10 17:10

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8195

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330035.wiff

Date Analyzed: 30-MAR-10 23:34

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8195

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100100.wiff

Date Analyzed: 11-MAR-10 17:26

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8226

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193013

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0401013.wiff

Date Analyzed: 01-APR-10 16:54

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: RE15-10-8226

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193013

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100101.wiff

Date Analyzed: 11-MAR-10 17:41

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: RE15-10-8211

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193014

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0401014.wiff

Date Analyzed: 01-APR-10 17:21

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: RE15-10-8211

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193014

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100102.wiff

Date Analyzed: 11-MAR-10 17:57

Units: ug/kg

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

*Concentration =

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

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247193001	RE15-10-8196	99.2	70 - 144	
247193001	RE15-10-8196	108	70 - 144	
247193002	RE15-10-8186	112	70 - 144	
247193002	RE15-10-8186	112	70 - 144	
247193003	RE15-10-8194	106	70 - 144	
247193003	RE15-10-8194	108	70 - 144	
247193004	RE15-10-8189	94.8	70 - 144	
247193004	RE15-10-8189	110	70 - 144	
247193005	RE15-10-8188	120	70 - 144	
247193005	RE15-10-8188	107	70 - 144	
247193006	RE15-10-8187	110	70 - 144	
247193006	RE15-10-8187	112	70 - 144	
247193007	RE15-10-8197	106	70 - 144	
247193007	RE15-10-8197	112	70 - 144	
247193008	RE15-10-8190	99.6	70 - 144	
247193008	RE15-10-8190	109	70 - 144	
247193009	RE15-10-8193	128	70 - 144	
247193009	RE15-10-8193	114	70 - 144	
247193010	RE15-10-8191	110	70 - 144	
247193010	RE15-10-8191	114	70 - 144	
247193011	RE15-10-8192	96.8	70 - 144	
247193011	RE15-10-8192	113	70 - 144	
247193012	RE15-10-8195	103	70 - 144	
247193012	RE15-10-8195	112	70 - 144	
247193013	RE15-10-8226	110	70 - 144	
247193013	RE15-10-8226	110	70 - 144	
247193014	RE15-10-8211	104	70 - 144	
247193014	RE15-10-8211	110	70 - 144	
1202045748	MB for batch 954324	102	70 - 144	
1202045748	MB for batch 954324	110	70 - 144	
1202045749	LCS for batch 954324	99.6	70 - 144	
1202045749	LCS for batch 954324	105	70 - 144	
1202045750	RE15-10-8196(247193001MS)	103	70 - 144	
1202045750	RE15-10-8196(247193001MS)	102	70 - 144	
1202045751	RE15-10-8196(247193001MSD)	109	70 - 144	
1202045751	RE15-10-8196(247193001MSD)	106	70 - 144	

2

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
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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) 10-1864

Extract Batch Code: 954324

Date Extracted: 22-FEB-10

GEL LCS ID: 1202045749

GEL LCSDUP ID:

Analysis Date/Time: 30-MAR-10 16:05

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
1,3,5-Trinitrobenzene	5000	4020	80.4					69 - 126
2,4,6-Trinitrotoluene	5000	4910	98.2					73 - 149
2,4-Dinitrotoluene	5000	4710	94.2					87 - 137
2,6-Dinitrotoluene	5000	5270	105					89 - 120
2-Amino-4,6-dinitrotoluene	5000	4800	96					90 - 130
4-Amino-2,6-dinitrotoluene	5000	5400	108					84 - 130
HMX	5000	4360	87.2					58 - 138
Nitrobenzene	5000	4990	99.8					71 - 122
PETN	5000	6610	132					64 - 137
RDX	5000	5630	113					81 - 137
Tetryl	5000	1450	29 *					51 - 112
m-Dinitrobenzene	5000	4510	90.2					83 - 122
m-Nitrotoluene	5000	5860	117					73 - 118
o-Nitrotoluene	5000	6080	122 *					72 - 119
p-Nitrotoluene	5000	5440	109					67 - 131

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

* Values outside of QC limits

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1864

Extract Batch Code: 954324

Date Extracted: 22-FEB-10

GEL LCS ID: 1202045749

GEL LCSDUP ID:

Analysis Date/Time: 11-MAR-10 12:59

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
TATB	5000	4630	92.6					28 - 162
tris(o-cresyl) phosphate	5000	4670	93.4					84 - 119
2,4-Diamino-6-nitrotoluene	5000	4560	91.2					52 - 114
3,5-Dinitroaniline	5000	5110	102					70 - 127
2,6-Diamino-4-nitrotoluene	5000	4850	97					64 - 122

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

* Values outside of QC limits

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Extract Batch Code: 954324

Date Extracted: 22-FEB-10

GEL Spike ID: 1202045750

GEL SpikeDup ID: 1202045751

Analysis Date/Time: 30-MAR-10 16:58

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
HMX	5000	0	5220	104	4430	88.6	16.4	30	51 - 144
Nitrobenzene	5000	0	5440	109	5280	106	2.99	30	70 - 122
PETN	5000	0	5860	117	6380	128	8.5	30	60 - 140
2,4,6-Trinitrotoluene	5000	0	4560	91.2	5150	103	12.2	30	76 - 144
4-Amino-2,6-dinitrotoluene	5000	0	5030	101	5710	114	12.7	30	72 - 143
2-Amino-4,6-dinitrotoluene	5000	0	4720	94.4	4800	96	1.68	30	85 - 137
2,6-Dinitrotoluene	5000	55.4	4750	93.9	5050	99.9	6.12	30	90 - 118
2,4-Dinitrotoluene	5000	0	5300	106	4860	97.2	8.66	30	86 - 135
1,3,5-Trinitrobenzene	5000	0	4520	90.4	4290	85.8	5.22	30	50 - 140
RDX	5000	0	6520	130	5310	106	20.5	30	59 - 152
Tetryl	5000	0	2440	48.8	2260	45.2	7.66	30	36 - 124
m-Dinitrobenzene	5000	0	5080	102	4780	95.6	6.09	30	85 - 118
m-Nitrotoluene	5000	0	5200	104	5520	110	5.97	30	70 - 120
o-Nitrotoluene	5000	0	5960	119	5960	119	0	30	69 - 123
p-Nitrotoluene	5000	0	5510	110	5680	114	3.04	30	65 - 133

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

3

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Extract Batch Code: 954324

Date Extracted: 22-FEB-10

GEL Spike ID: 1202045750

GEL SpikeDup ID: 1202045751

Analysis Date/Time: 11-MAR-10 13:30

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	4930	98.6	4860	97.2	1.43	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	4850	97	4860	97.2	.206	30	55 - 130
TATB	5000	0	9940	199 *	5970	119	49.9 *	30	29 - 155
3,5-Dinitroaniline	5000	0	5030	101	4990	99.8	.798	30	73 - 129
tris(o-cresyl) phosphate	5000	0	4710	94.2	4720	94.4	.212	30	72 - 127

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

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 30-MAR-10 08:37

GEL Data File: EXP0330001.wiff

Instrument ID: LCMSMS

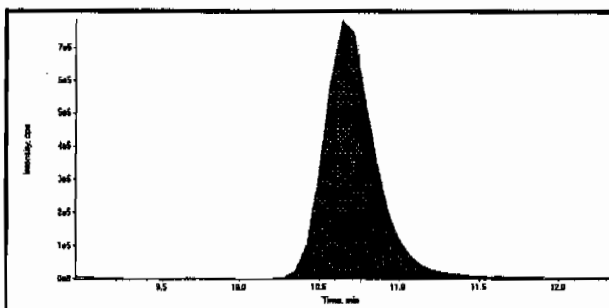
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	3.2
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

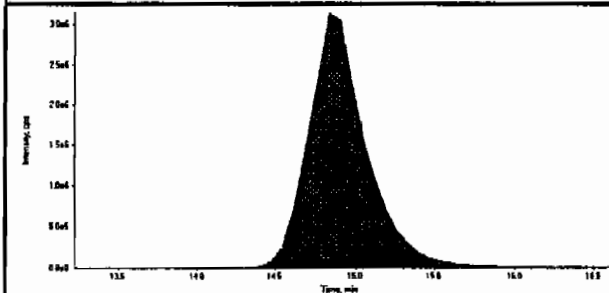
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

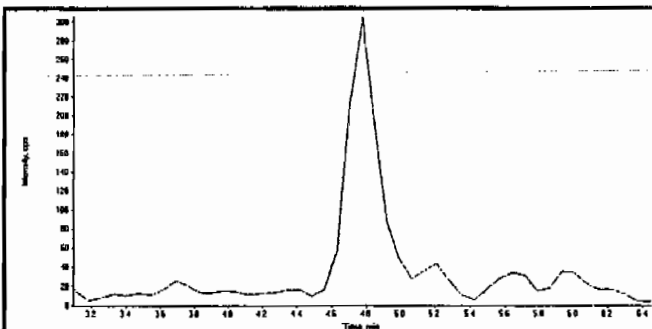
Data File	EXP0330001.wiff	Acquisition Date	3/30/2010 8:37:03 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



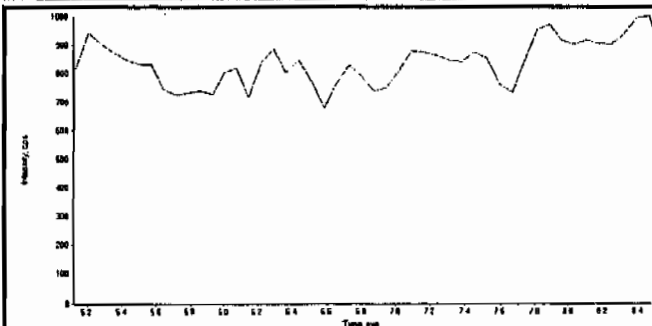
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	17400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	78300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



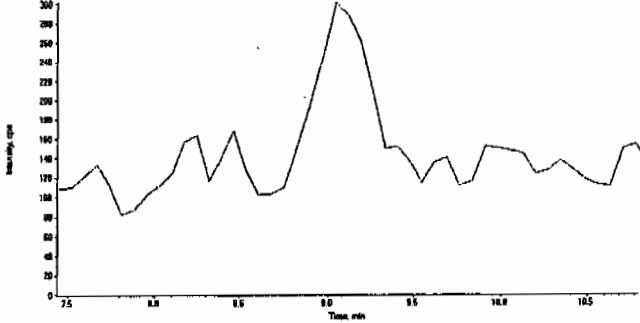
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

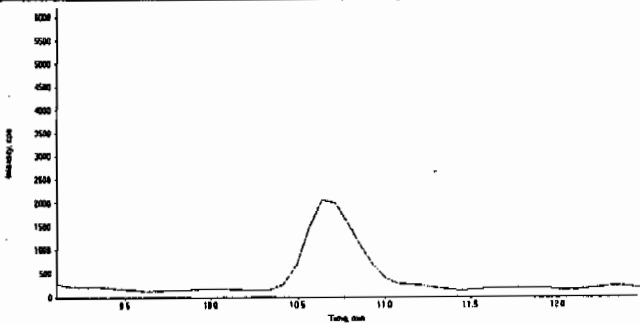
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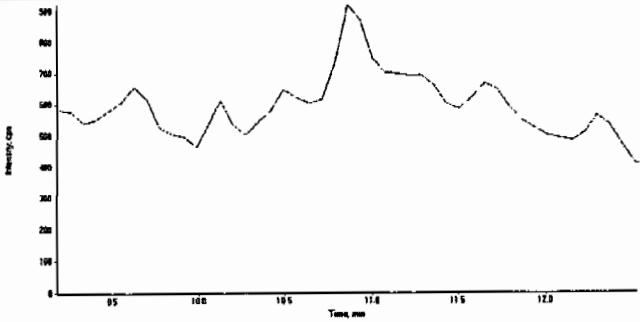
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

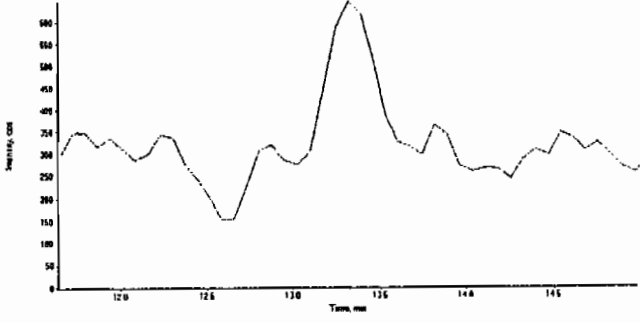
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330001.wiff	Acquisition Date	3/30/2010 8:37:03 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330001.wiff	Acquisition Date	3/30/2010 8:37:03 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.9
	Area Counts:	4.53e+005
	Manual Modification	No
	Amount:	3.20 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330001.wiff	Acquisition Date	3/30/2010 8:37:03 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330001.wiff	Acquisition Date	3/30/2010 8:37:03 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 30-MAR-10 09:03

GEL Data File: EXP0330002.wiff

Instrument ID: LCMSMS

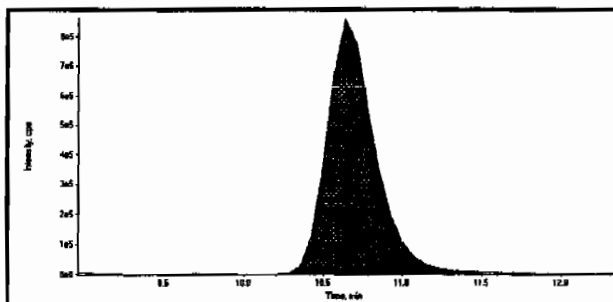
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	3.08
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

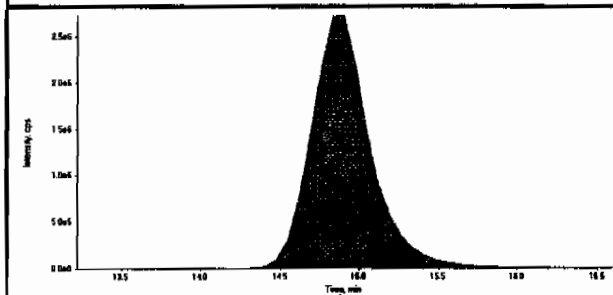
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

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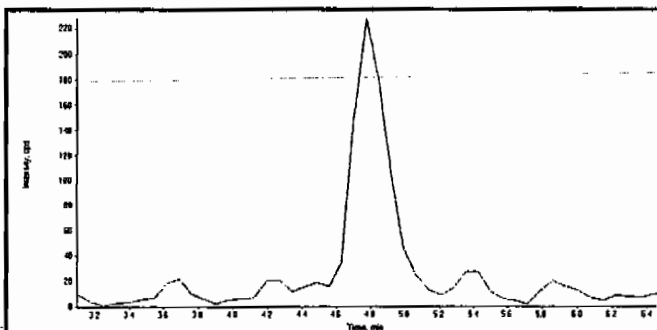
Data File	EXP0330002.wiff	Acquisition Date	3/30/2010 9:03:22 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



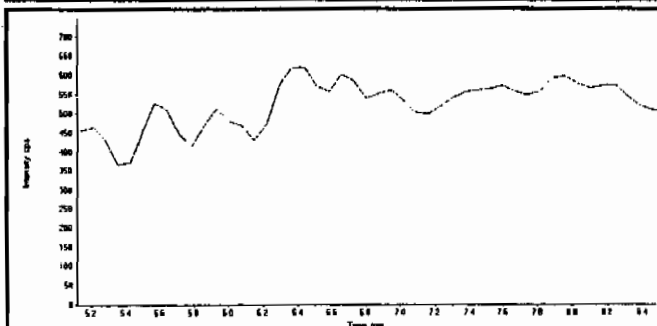
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	18200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	71800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330002.wiff	Acquisition Date	3/30/2010 9:03:22 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

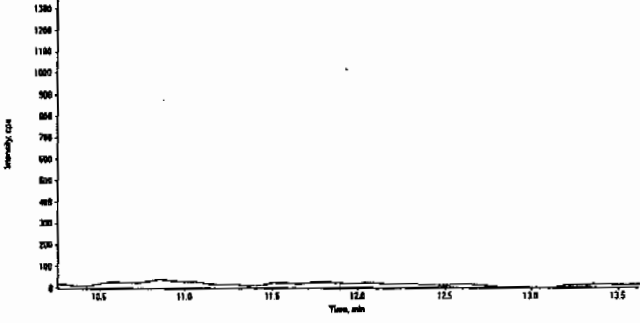
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

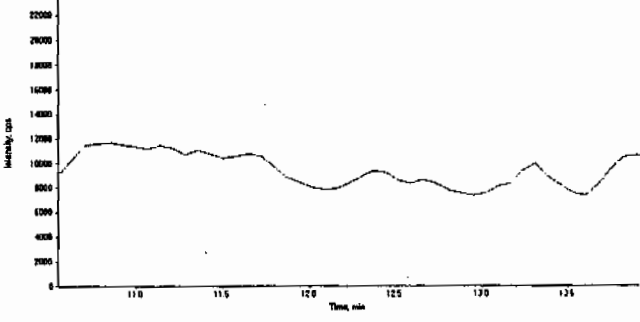
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

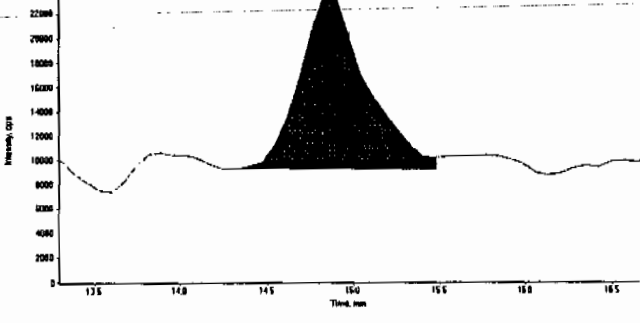
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

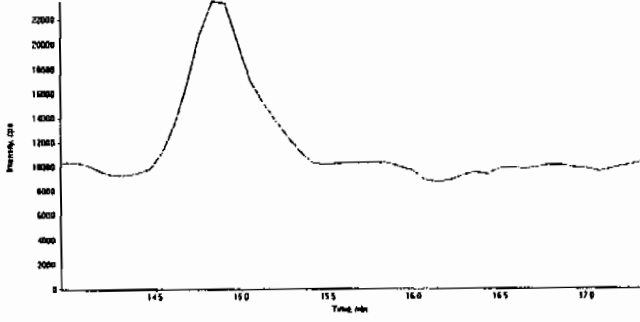
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LCMSMS#3

Data File	EXP0330002.wiff	Acquisition Date	3/30/2010 9:03:22 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.8
	Area Counts:	4.00e+005
	Manual Modification	No
	Amount:	3.08 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330002.wiff	Acquisition Date	3/30/2010 9:03:22 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

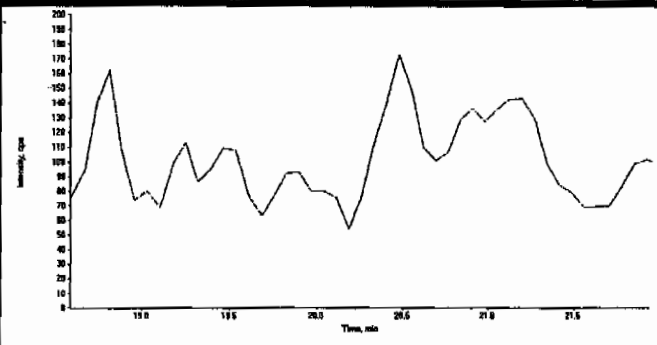
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

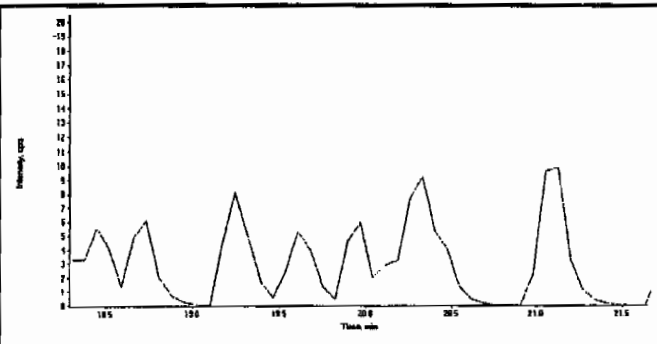
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330002.wiff	Acquisition Date	3/30/2010 9:03:22 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-APR-10 11:38

GEL Data File: EXP0401001.wiff

Instrument ID: LCMSMS

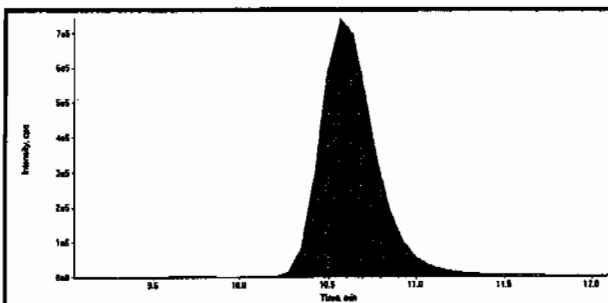
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	4.03
2-Amino-4,6-dinitrotoluene	0	0

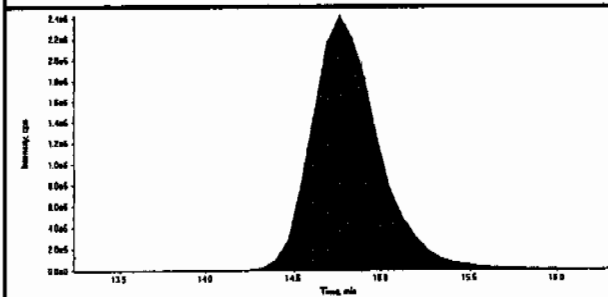
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321 A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

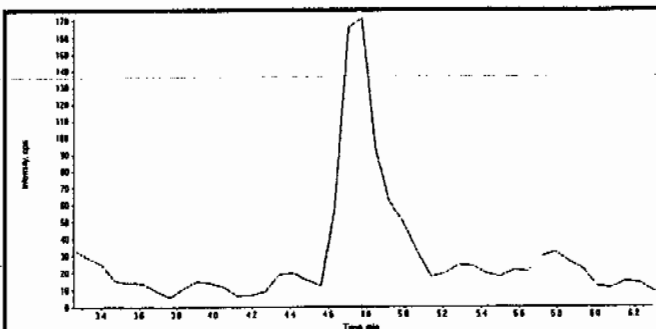
Data File	EXP0401001.wiff	Acquisition Date	4/1/2010 11:38:10 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



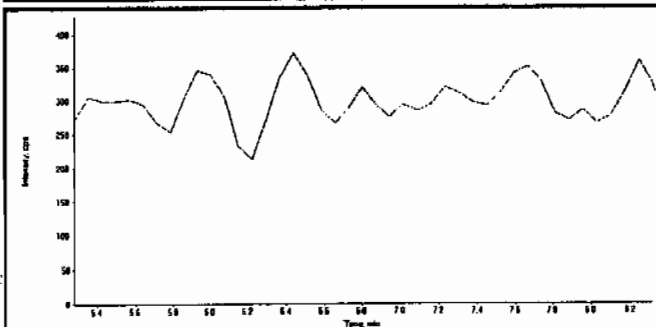
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	16200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	64400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Jan 4/19/10
Amw 04/09/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401001.wiff	Acquisition Date	4/1/2010 11:38:10 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401001.wiff	Acquisition Date	4/1/2010 11:38:10 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	14.8
	Area Counts:	4.86e+005
	Manual Modification	No
	Amount:	4.03 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401001.wiff	Acquisition Date	4/1/2010 11:38:10 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401001.wiff	Acquisition Date	4/1/2010 11:38:10 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-APR-10 12:04

GEL Data File: EXP0401002.wiff

Instrument ID: LCMSMS

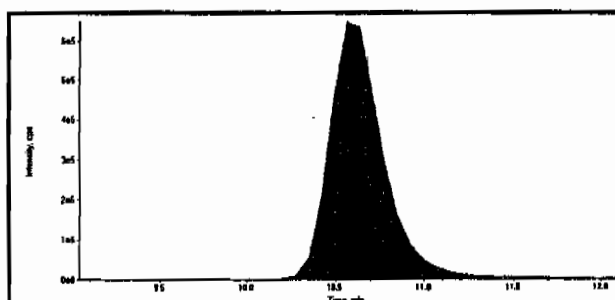
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	3.55
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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

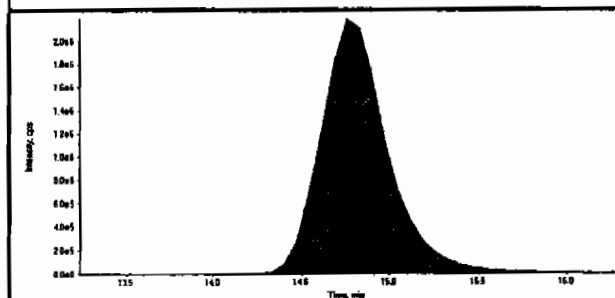
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LCMSMS#3

Data File	EXP0401002.wiff	Acquisition Date	4/1/2010 12:04:33 PM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



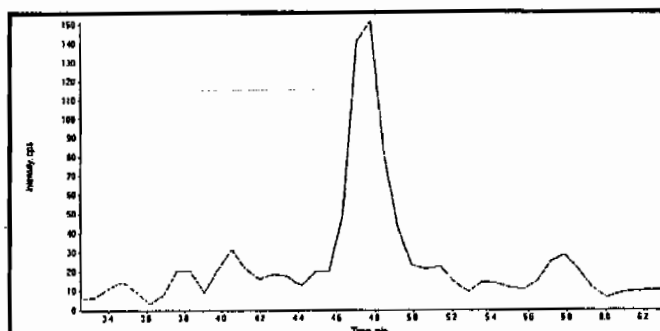
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	13700000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

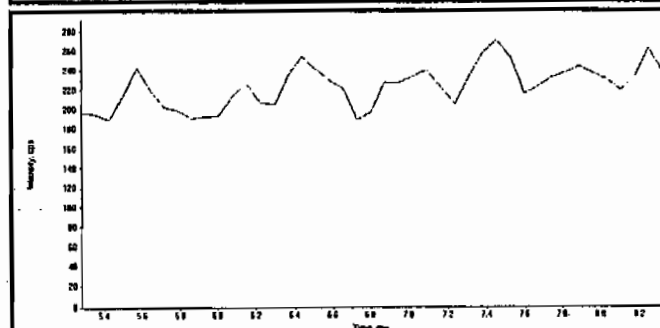


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	58100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401002.wiff	Acquisition Date	4/1/2010 12:04:33 PM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

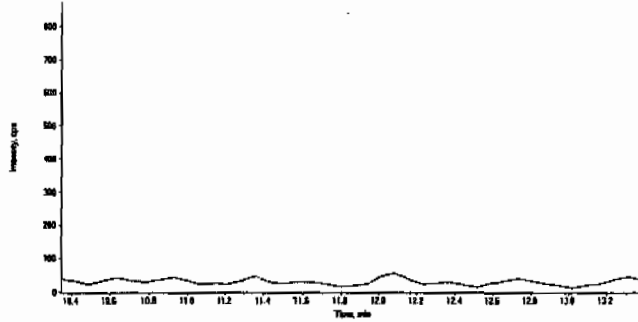
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

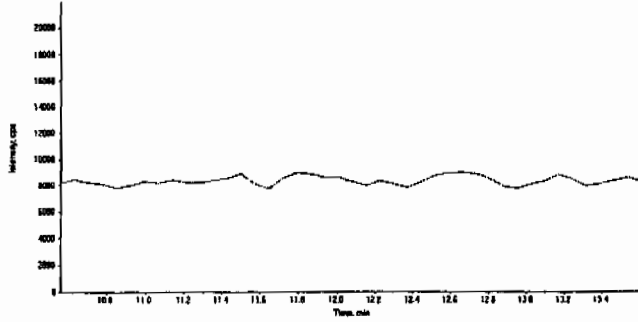
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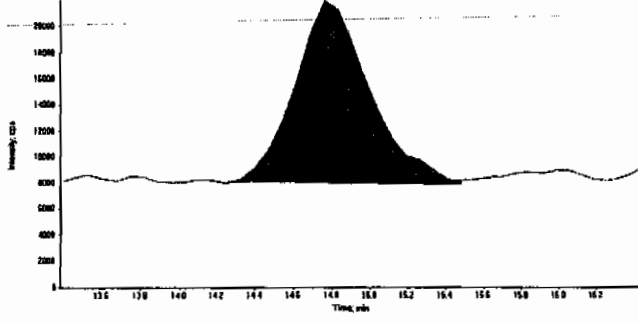
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

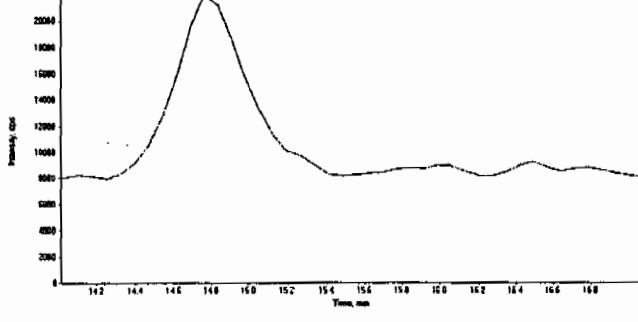
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LCMSMS#3

Data File	EXP0401002.wiff	Acquisition Date	4/1/2010 12:04:33 PM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	14.8
	Area Counts:	3.87e+005
	Manual Modification	No
	Amount:	3.55 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401002.wiff	Acquisition Date	4/1/2010 12:04:33 PM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

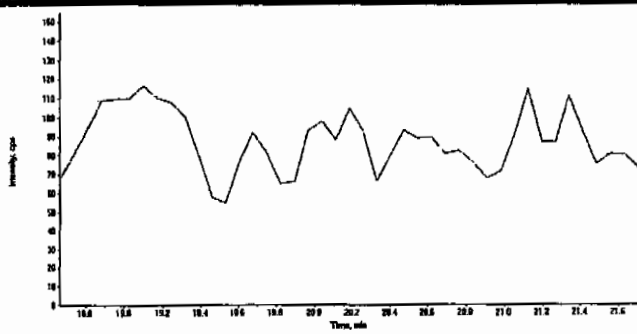
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

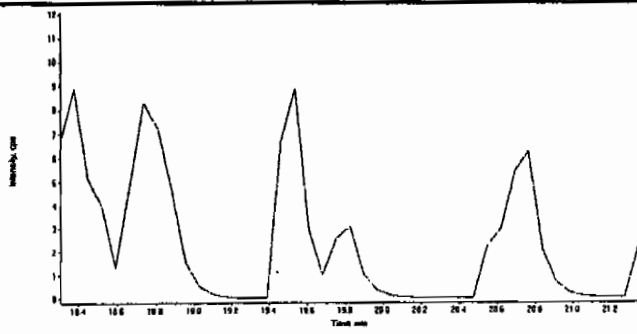
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401002.wiff	Acquisition Date	4/1/2010 12:04:33 PM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 10-MAR-10 15:31

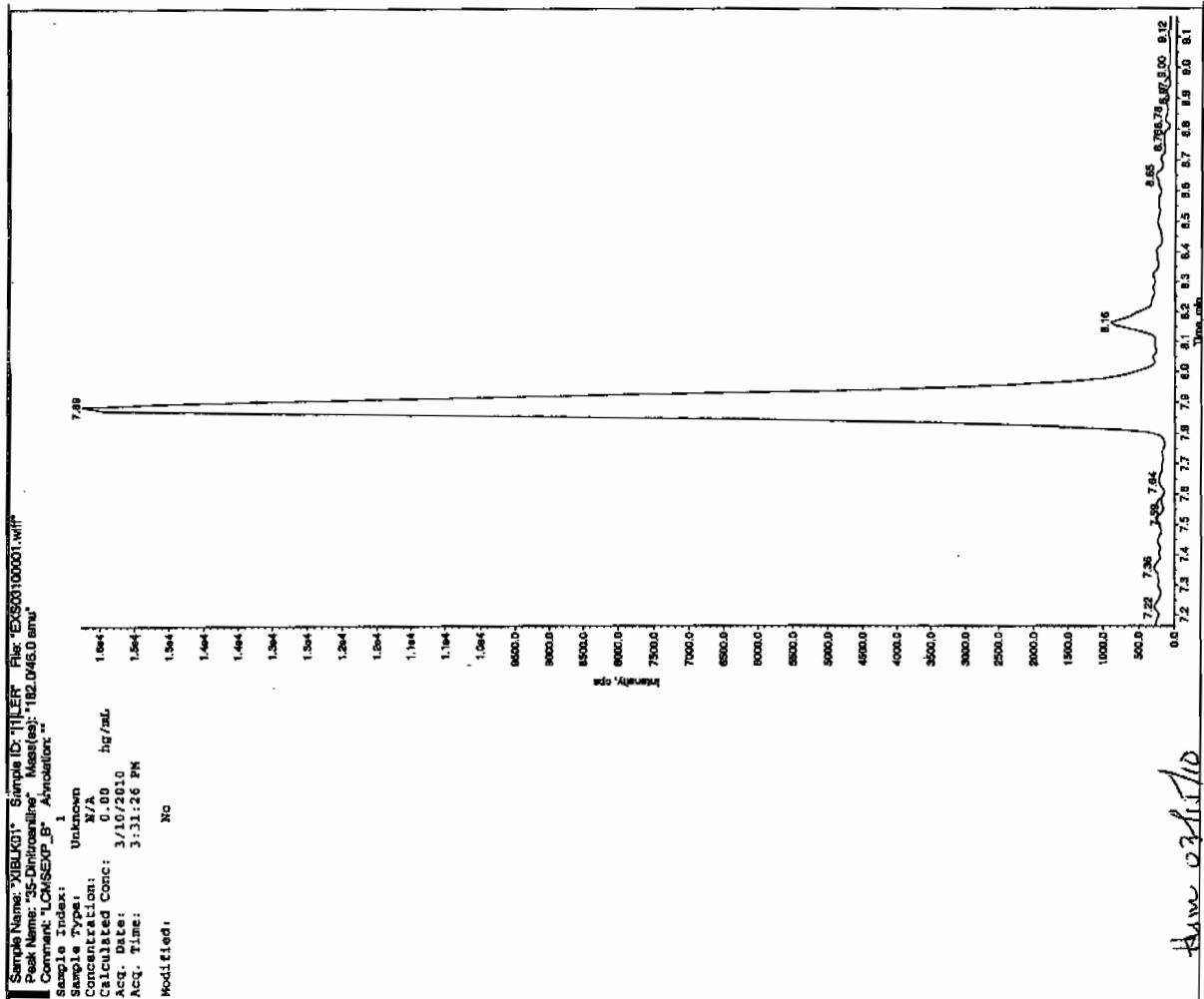
GEL Data File: EXS03100001.wiff

Instrument ID: LCMSMS

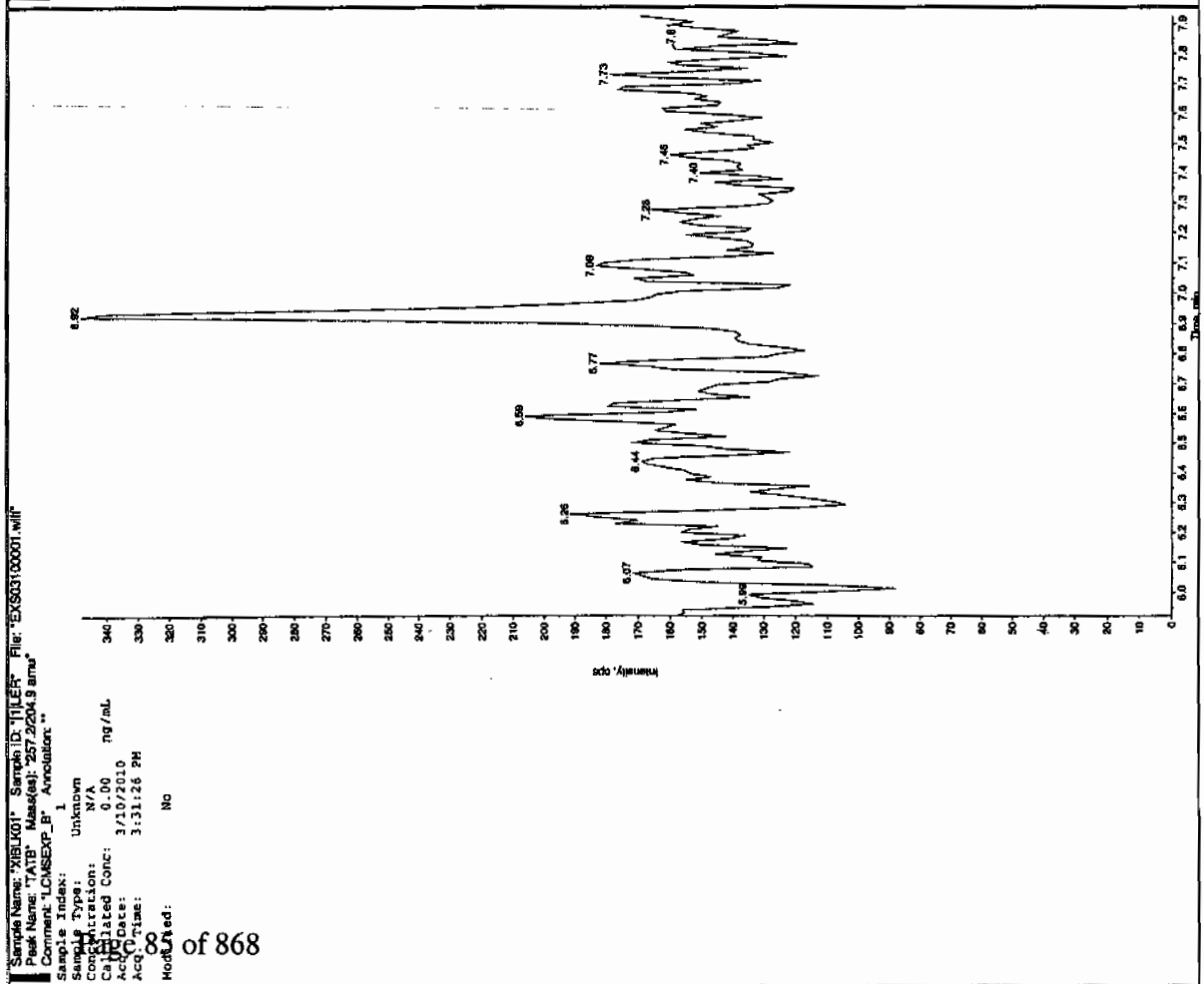
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Diamino-6-nitrotoluene	0	14.6
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	98.2
TATB	0	0
3,5-Dinitroaniline	0	0

Rev 3/13/10



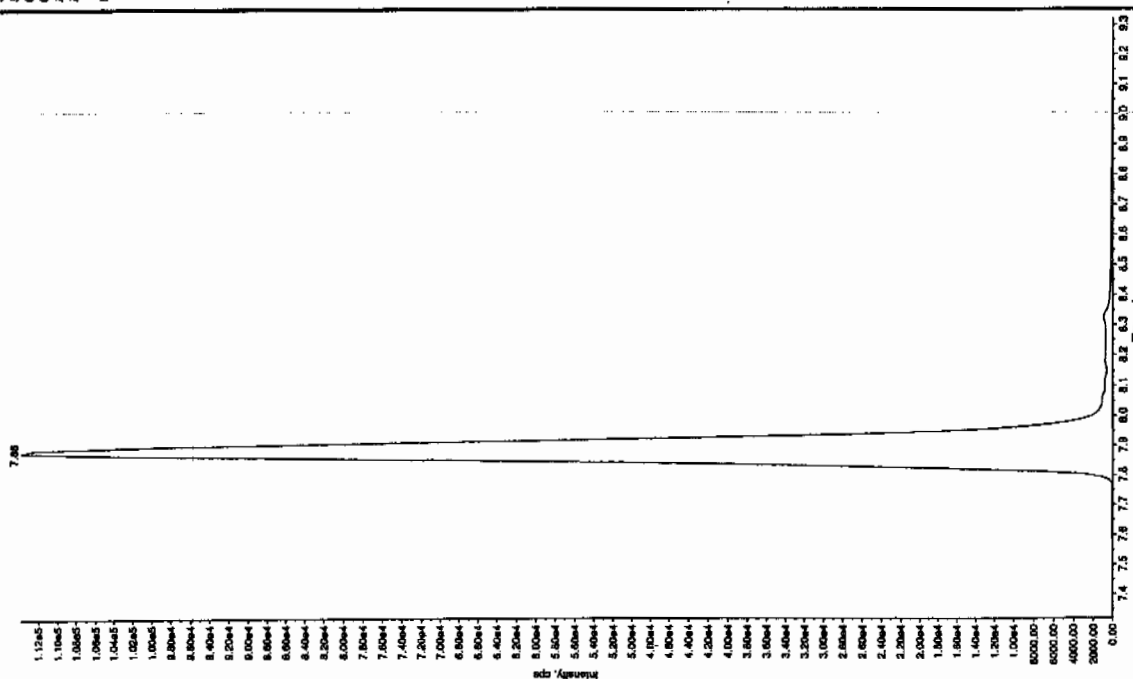
Rev 03/13/10



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

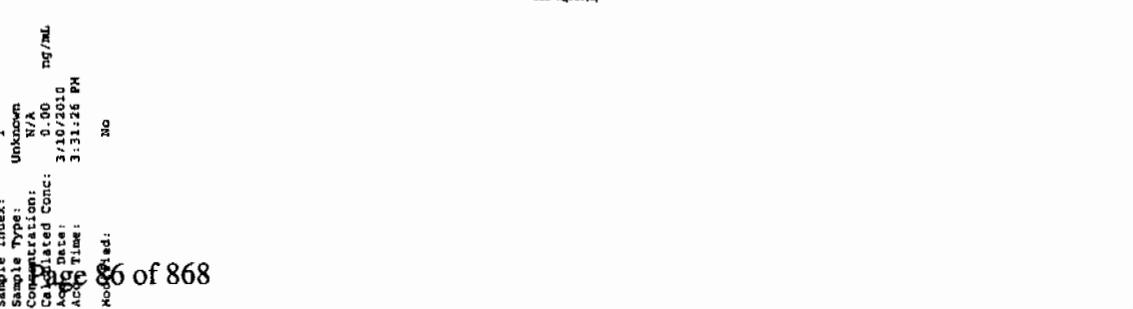
Sample Name: "XBLK01" Sample ID: "111111" File: "EXS03100001.wif"
 Peak Name: "34-Chlorobutene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSXP_B" Annotation: "

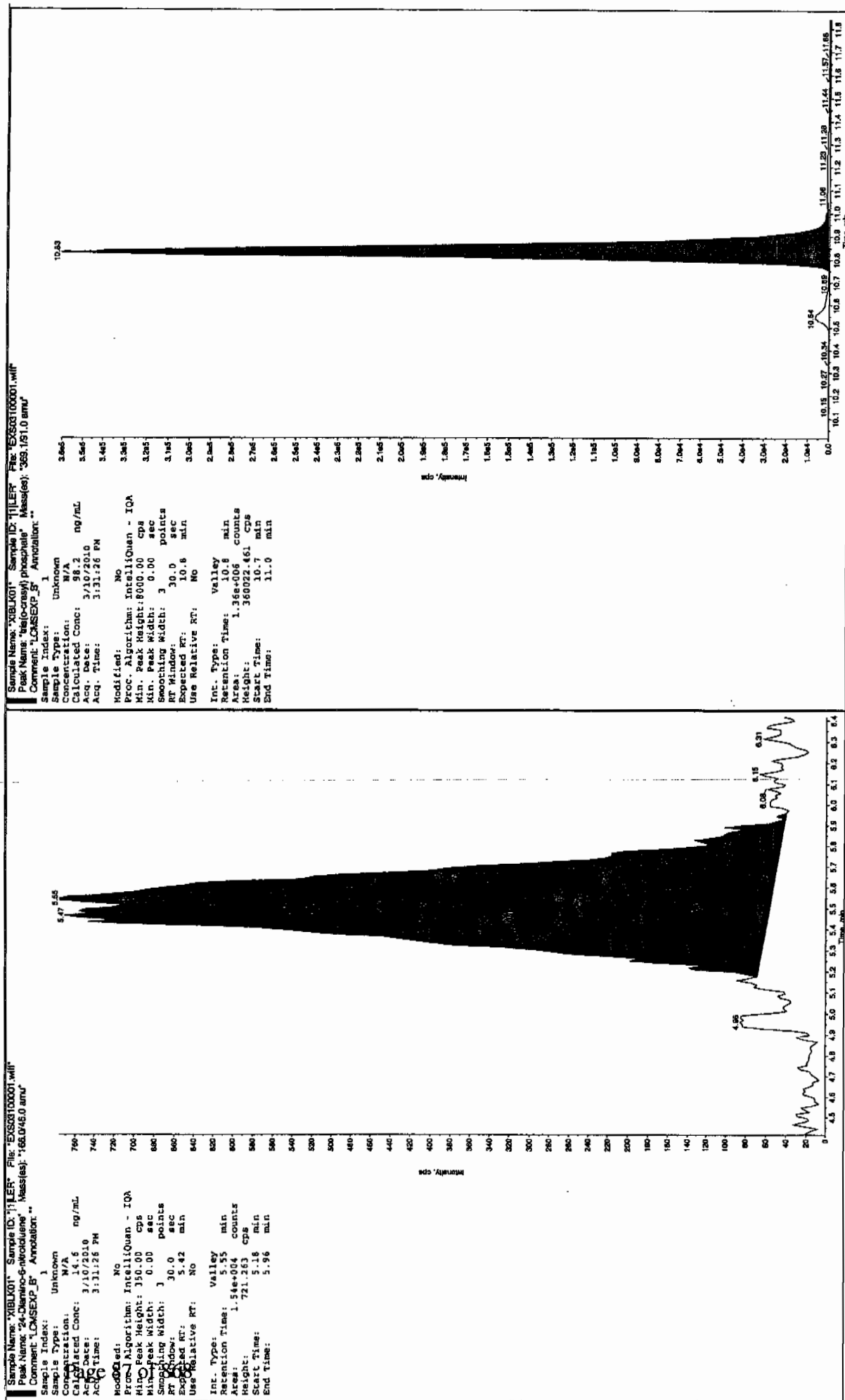
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 3:31:26 PM
 Modified: No



Sample Name: "XBLK01" Sample ID: "111111" File: "EXS03100001.wif"
 Peak Name: "34-Chlorobutene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 3:31:26 PM
 Modified: No





Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 10-MAR-10 15:47

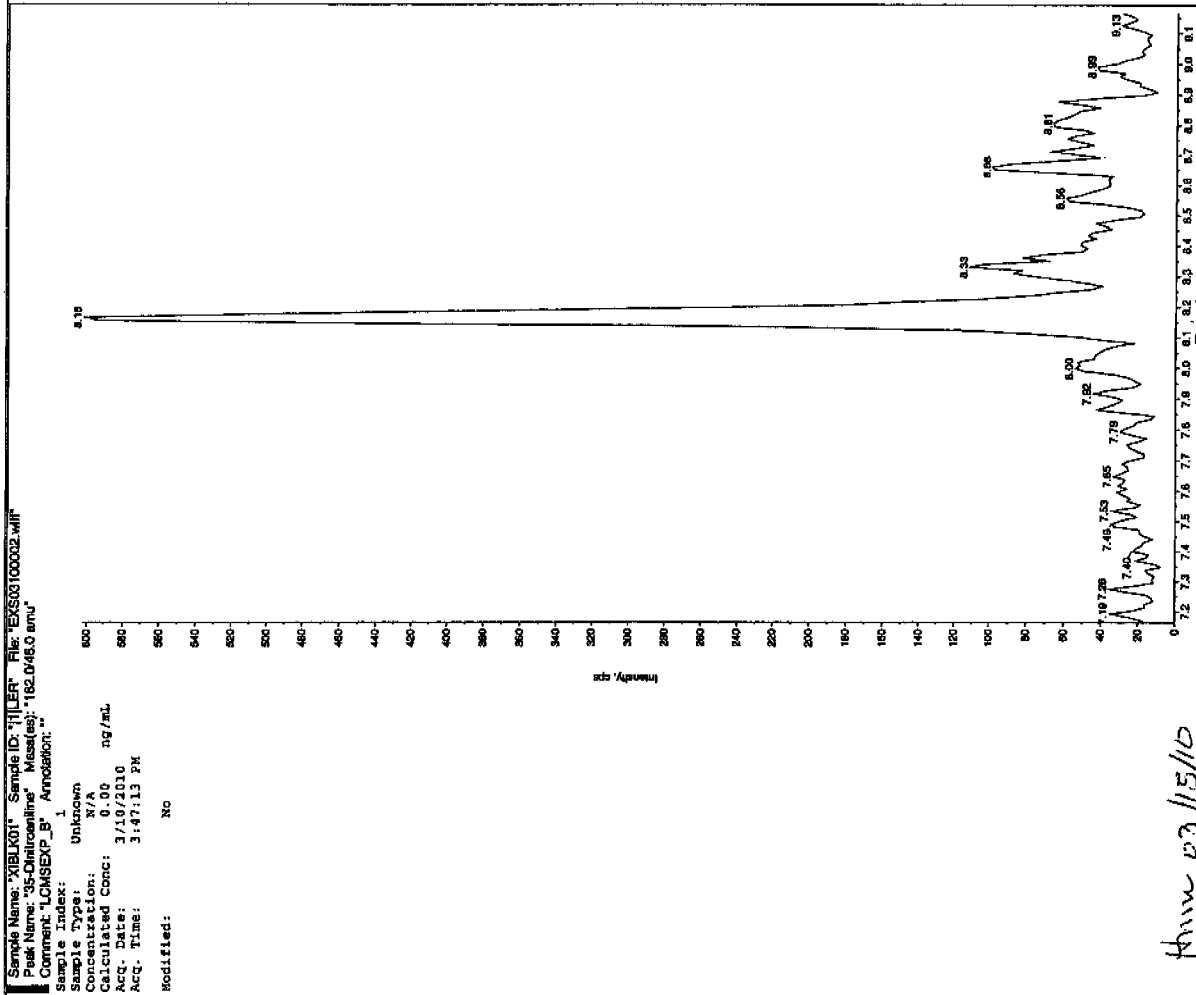
GEL Data File: EXS03100002.wiff

Instrument ID: LCMSMS

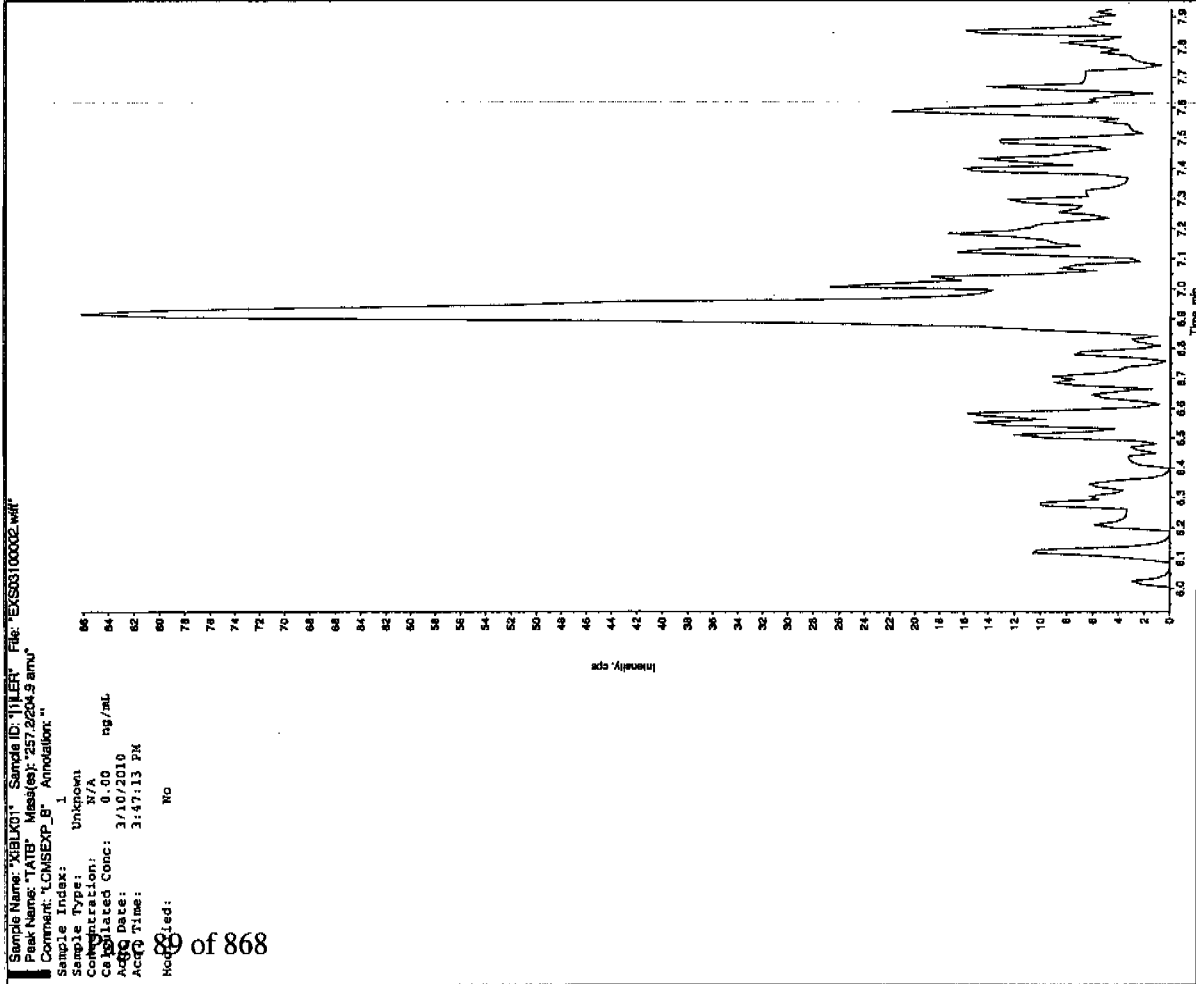
Column: Phenomenex Ultracarb 5u ODS(20)

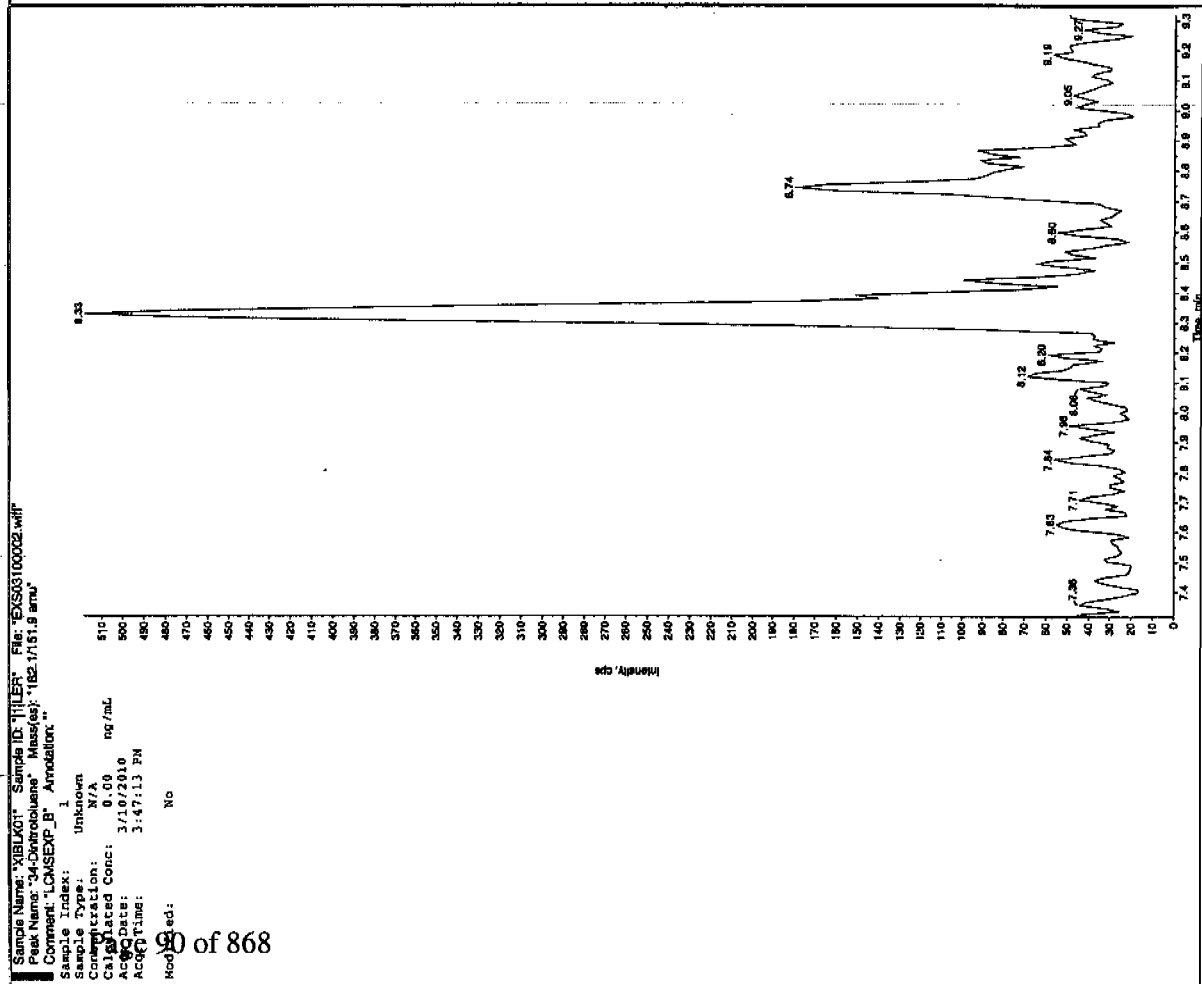
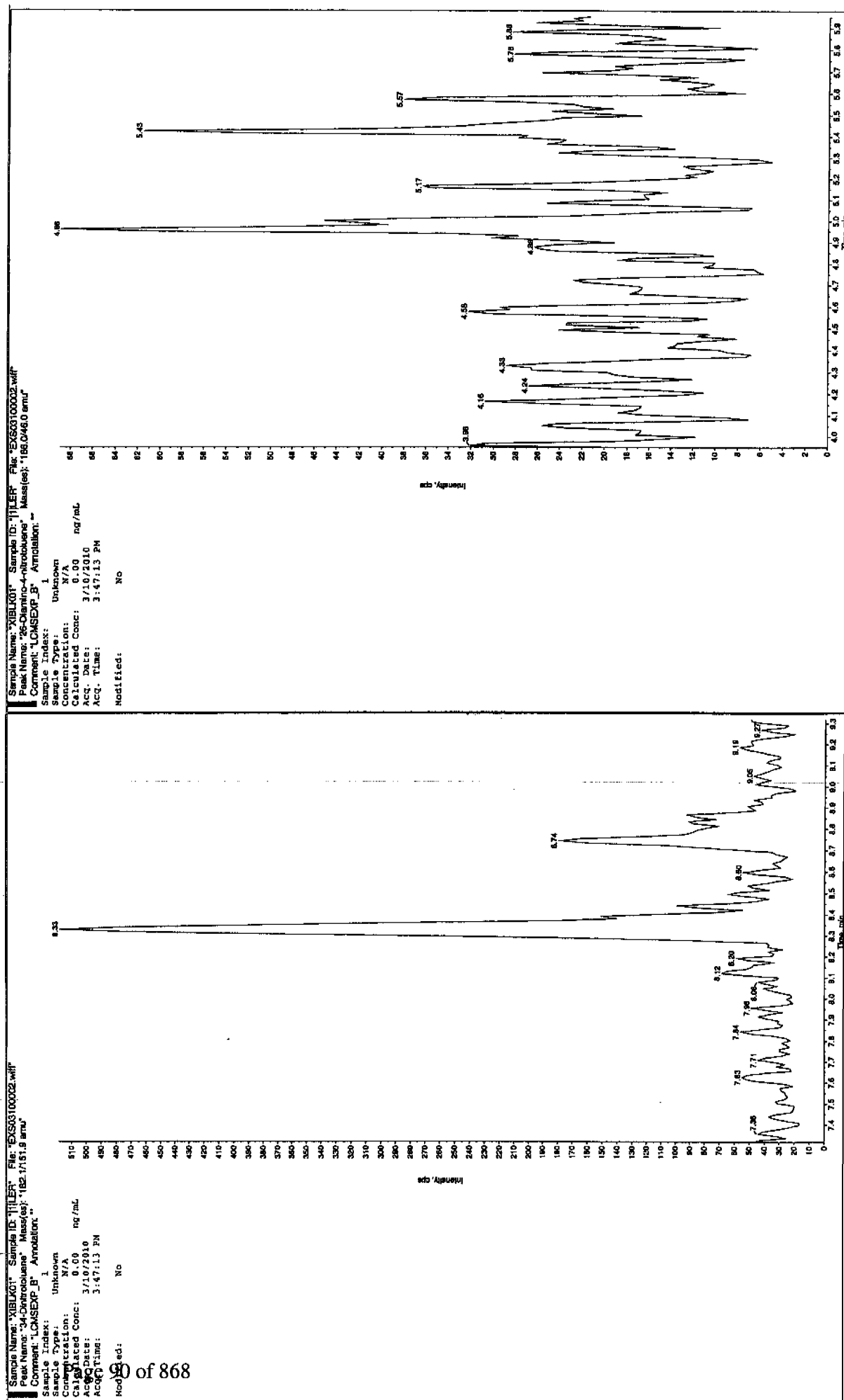
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

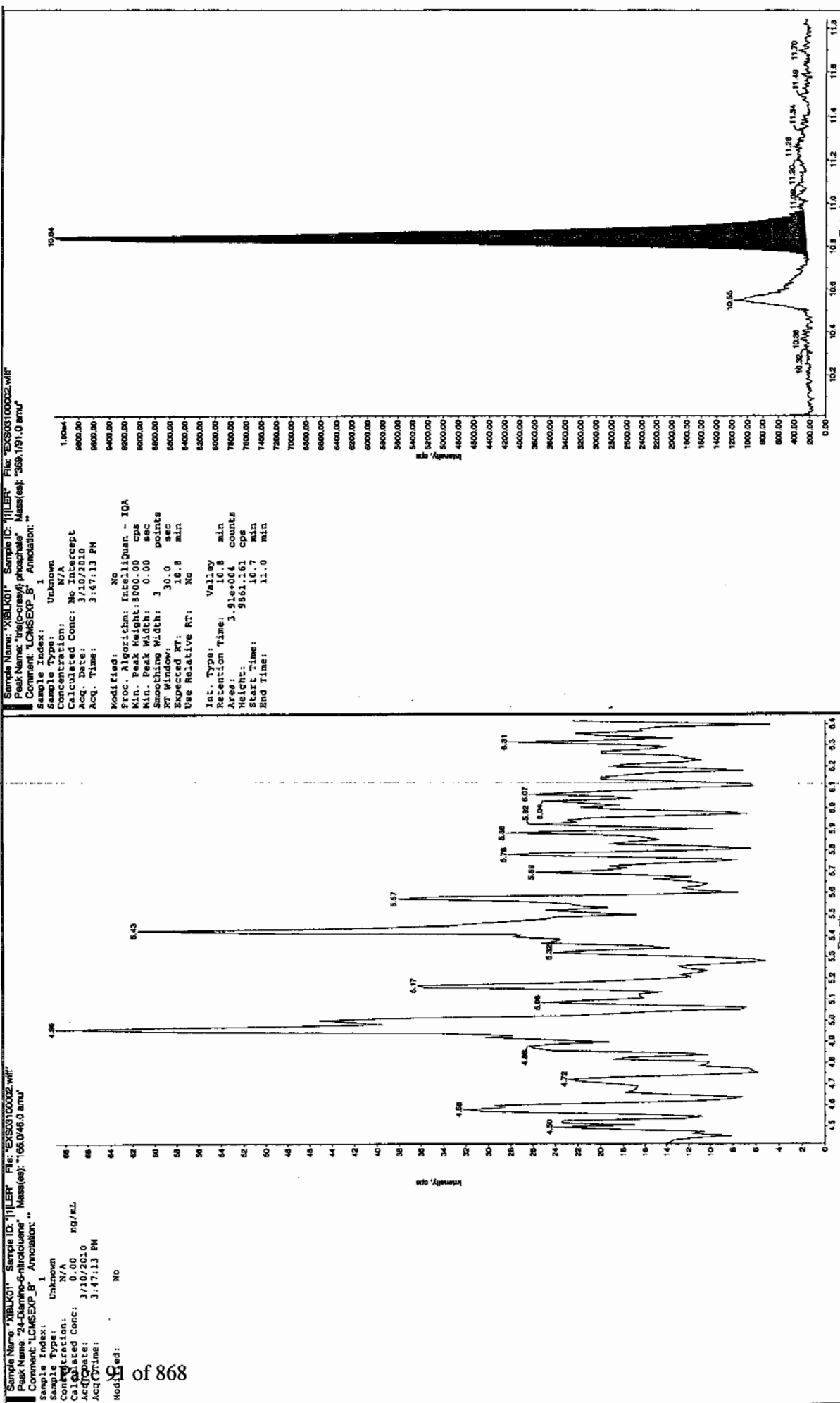
Don 3/2/10



Don 03/15/10







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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 30-MAR-10 12:08

GEL Data File: EXP0330009.wiff

Instrument ID: LCMSMS

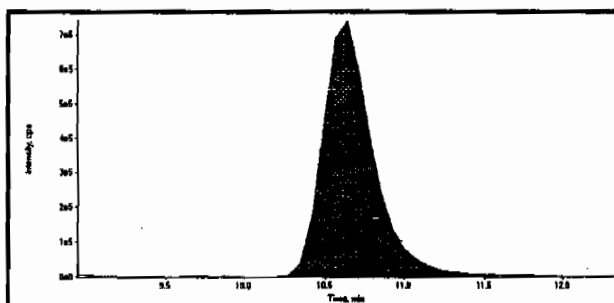
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	2.96
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

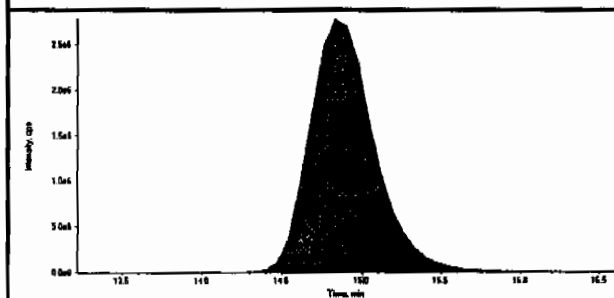
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

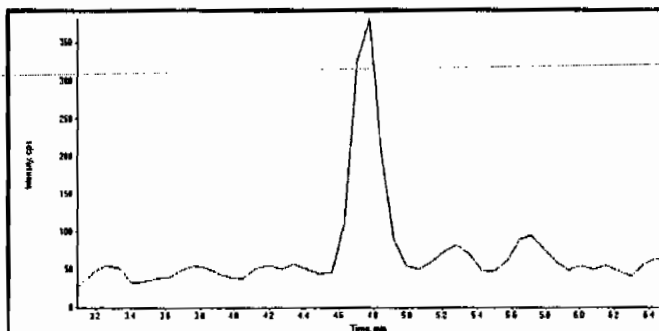
Data File	EXP0330009.wiff	Acquisition Date	3/30/2010 12:08:12 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



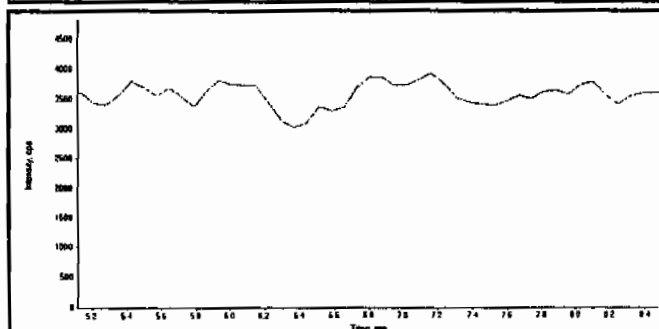
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	16200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	79200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

See 4/2/10

Have 04/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330009.wiff	Acquisition Date	3/30/2010 12:08:12 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

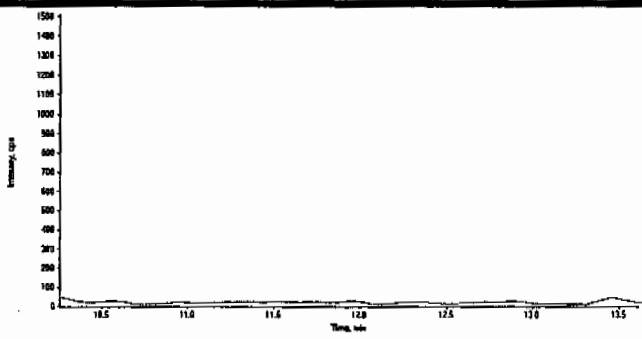
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

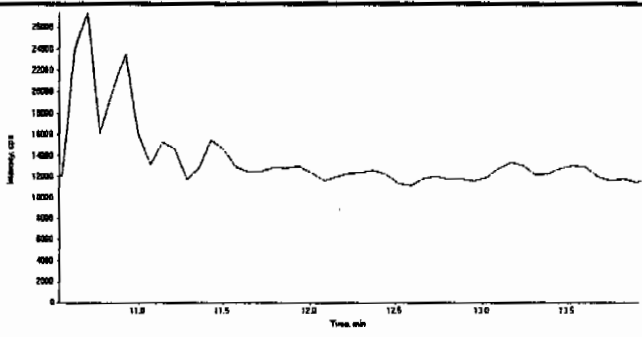
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

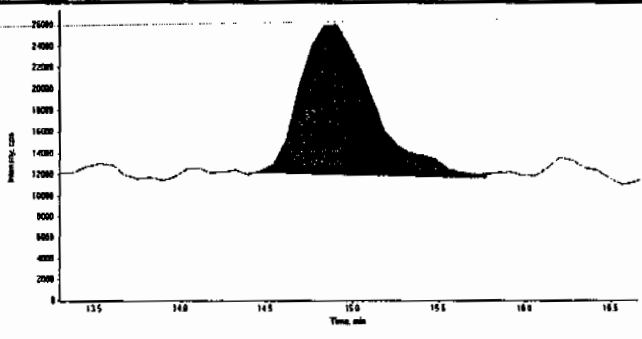
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

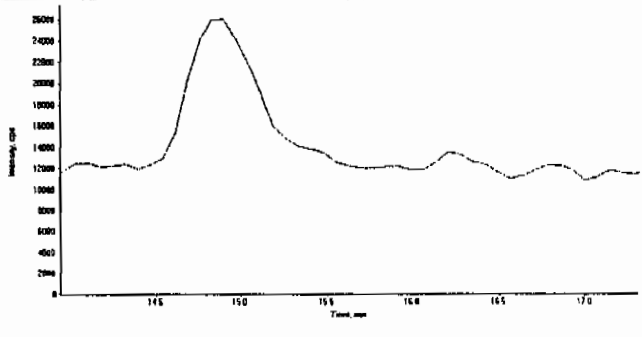
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330009.wiff	Acquisition Date	3/30/2010 12:08:12 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.9
	Area Counts:	4.23e+005
	Manual Modification	No
	Amount:	2.96 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330009.wiff	Acquisition Date	3/30/2010 12:08:12 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

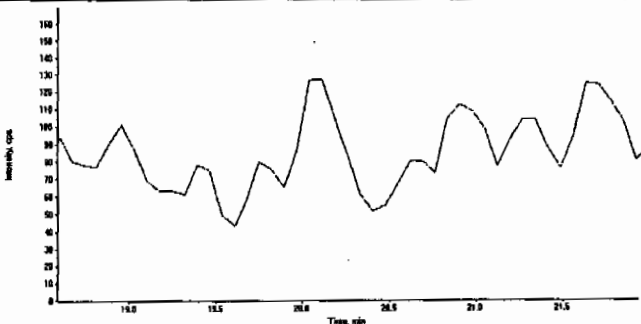
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

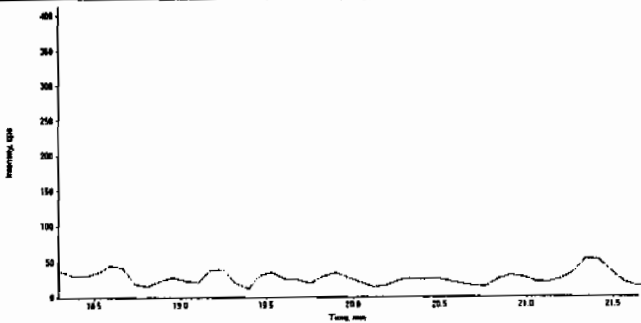
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330009.wiff	Acquisition Date	3/30/2010 12:08:12 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 30-MAR-10 13:00

GEL Data File: EXP0330011.wiff

Instrument ID: LCMSMS

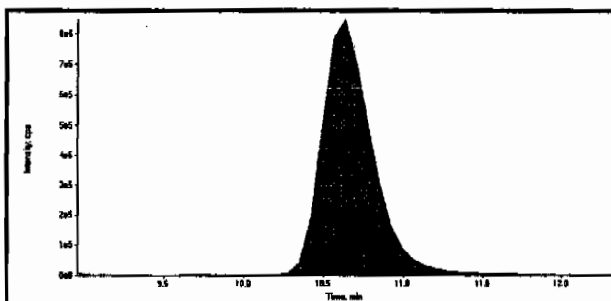
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	3.2
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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

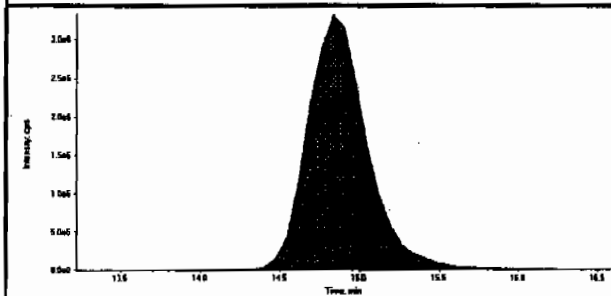
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330011.wiff	Acquisition Date	3/30/2010 1:00:55 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



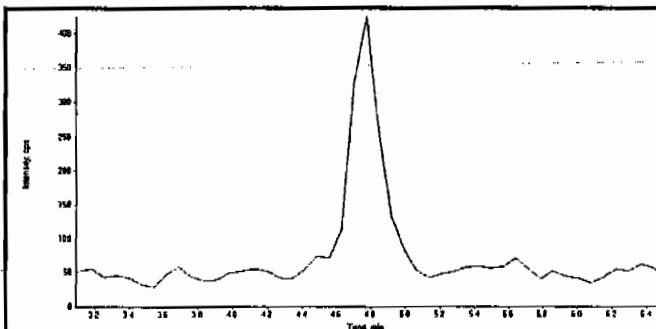
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	18600000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard-Recoveries

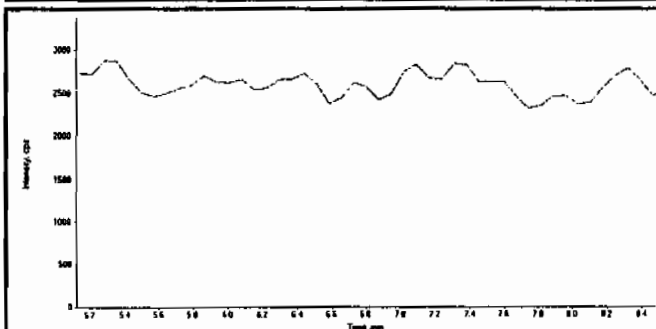


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	87800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Jan 4/2/10

HW 04/02/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330011.wiff	Acquisition Date	3/30/2010 1:00:55 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

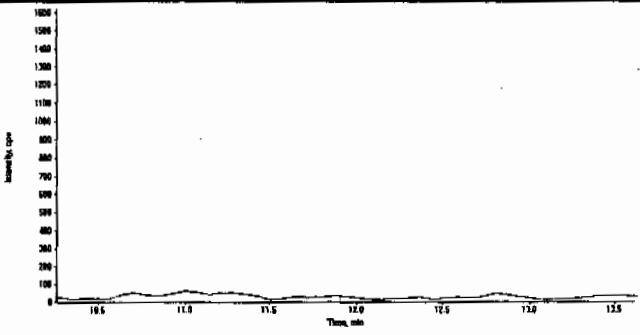
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

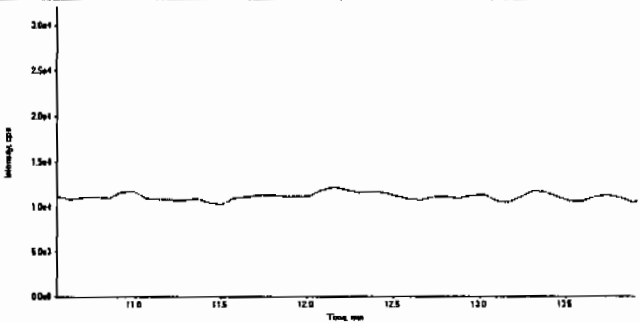
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

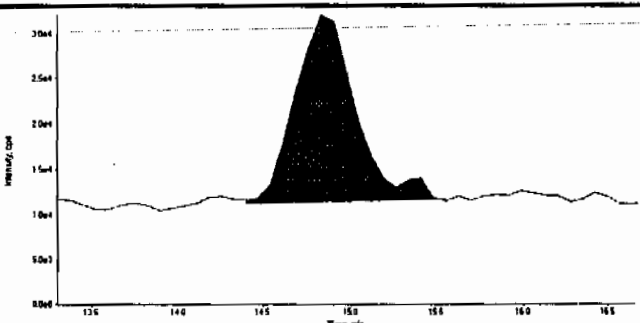
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321 A-Modified

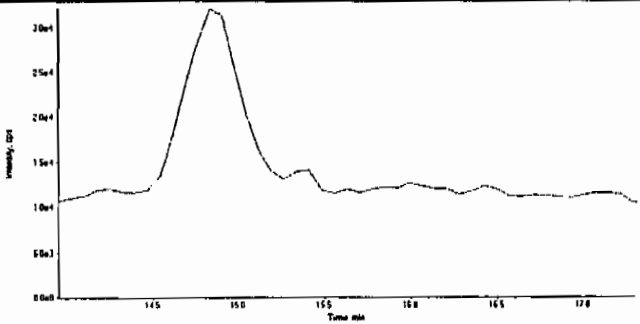
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330011.wiff	Acquisition Date	3/30/2010 1:00:55 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.8
	Area Counts:	5.08e+005
	Manual Modification	No
	Amount:	3.20 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330011.wiff	Acquisition Date	3/30/2010 1:00:55 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

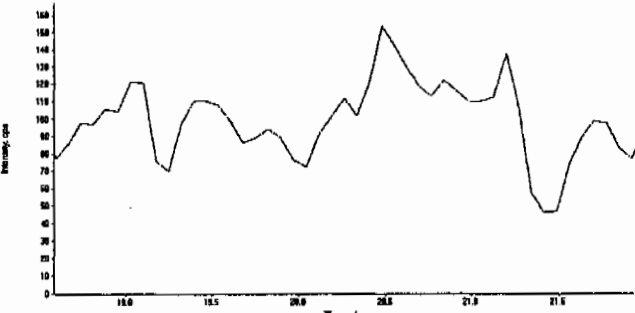
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

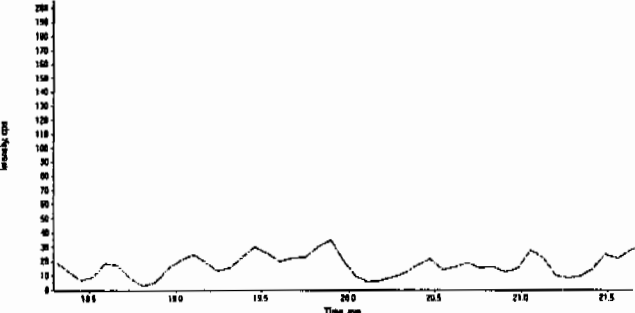
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330011.wiff	Acquisition Date	3/30/2010 1:00:55 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 30-MAR-10 15:12

GEL Data File: EXP0330016.wiff

Instrument ID: LCMSMS

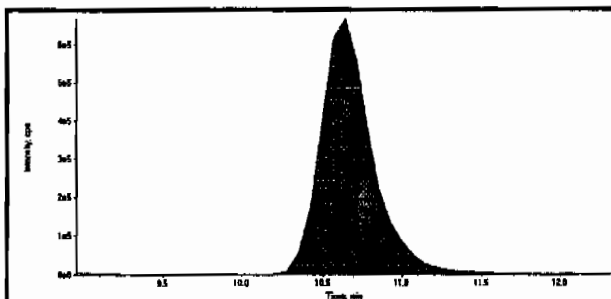
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	3.49
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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

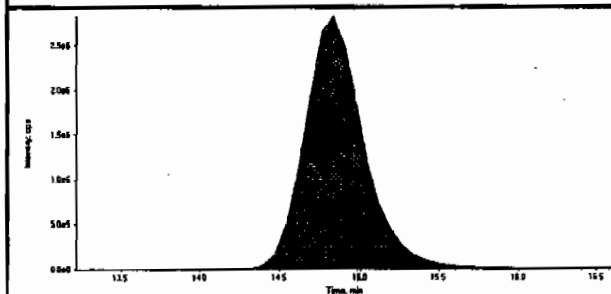
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330016.wiff	Acquisition Date	3/30/2010 3:12:49 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



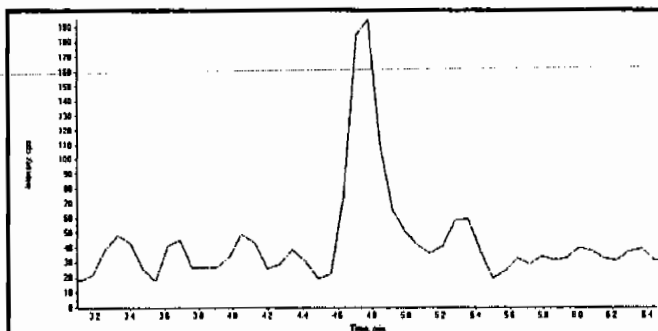
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	15000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

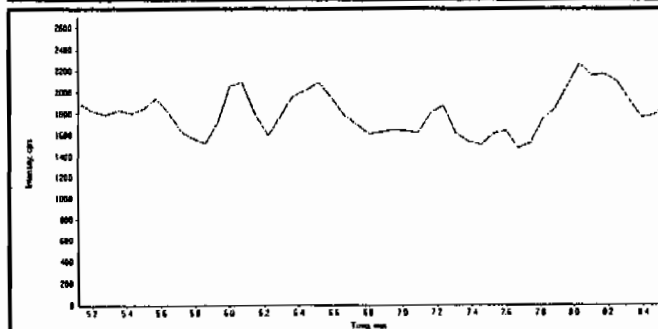


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	73200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

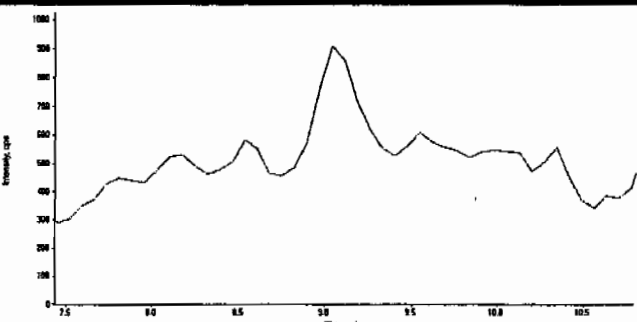
dan
4/12/10

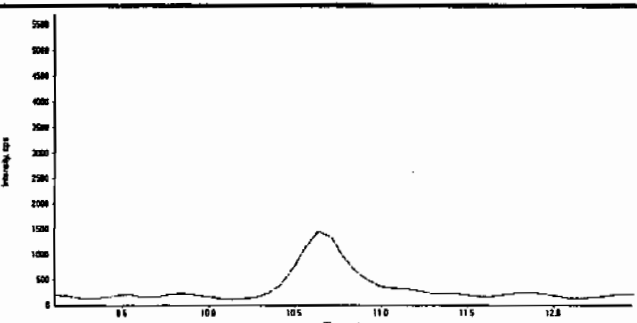
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04/12/10

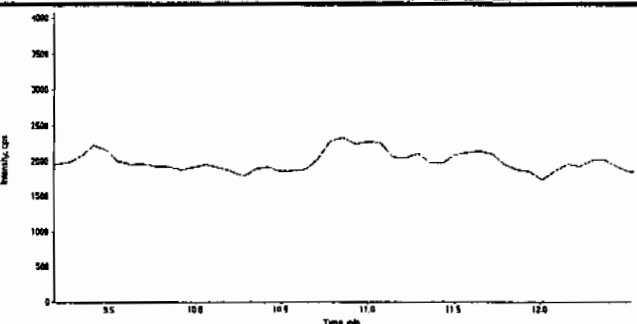
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

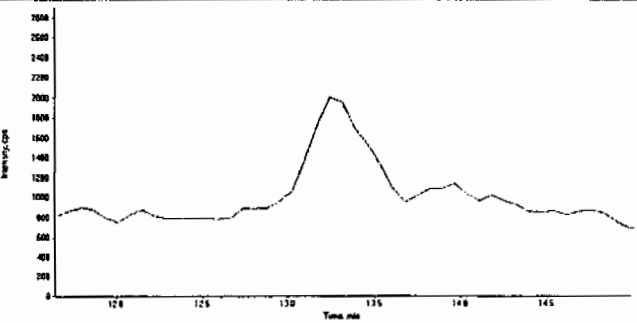
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330016.wiff	Acquisition Date	3/30/2010 3:12:49 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

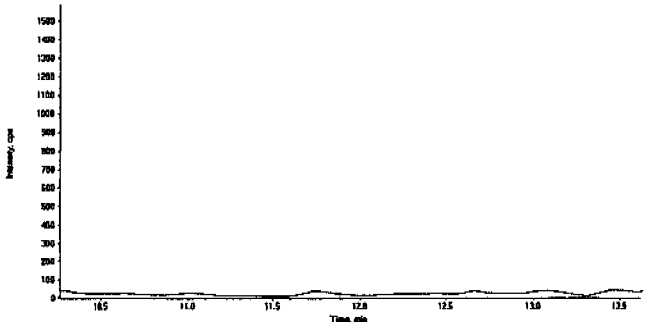
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

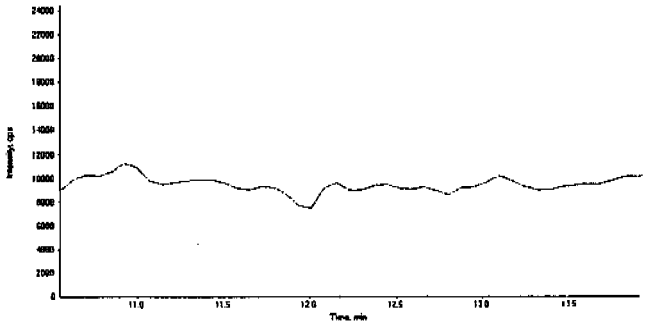
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

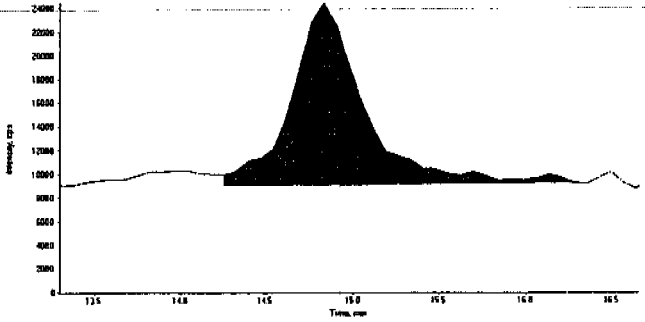
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

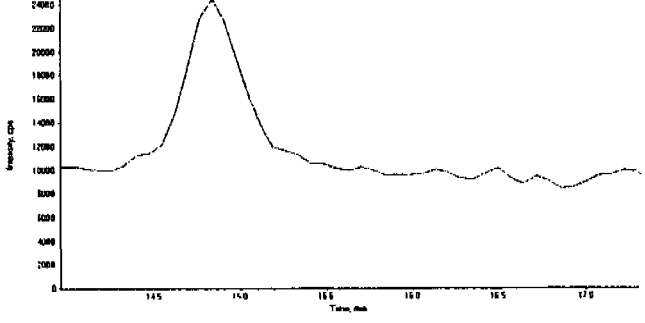
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330016.wiff	Acquisition Date	3/30/2010 3:12:49 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.8
	Area Counts:	4.61e+005
	Manual Modification	No
	Amount:	3.49 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330016.wiff	Acquisition Date	3/30/2010 3:12:49 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

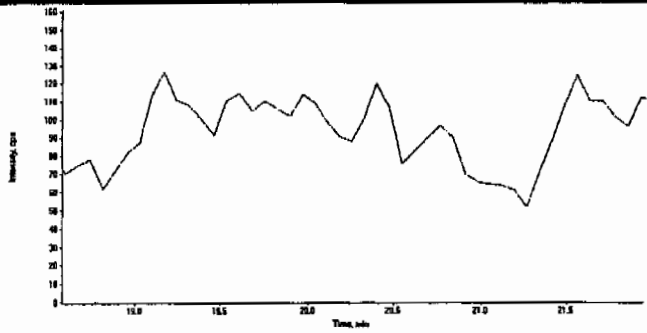
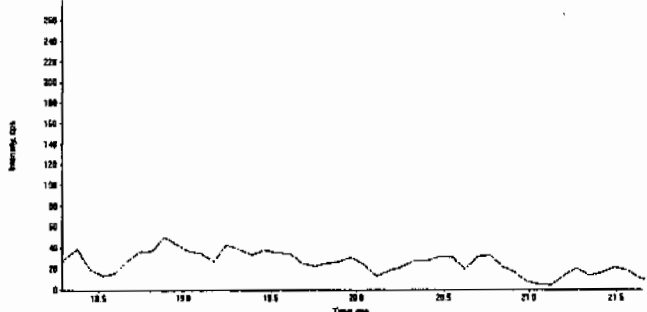
	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330016.wiff	Acquisition Date	3/30/2010 3:12:49 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)	
	Expected RT:	20.3	
	Actual RT:	0.00	
	Area Counts:	0.00e+000	
	Manual Modification	No	
	Amount:	N/A (ng/mL)	
	% Accuracy:	N/A	
	Compound Name:	PETN (361.1/62.0 amu)	
	Expected RT:	20.0	
	Actual RT:	0.00	
	Area Counts:	0.00e+000	
	Manual Modification	No	
	Amount:	N/A (ng/mL)	
	% Accuracy:	N/A	

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Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 30-MAR-10 18:44

GEL Data File: EXP0330024.wiff

Instrument ID: LCMSMS

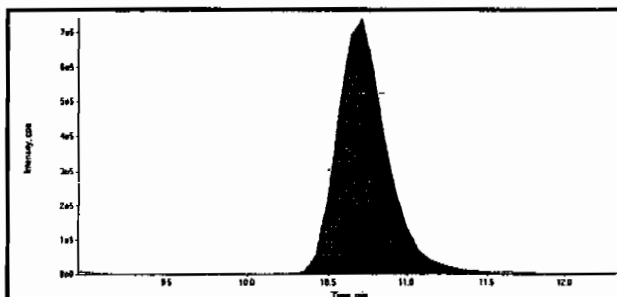
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	3.09
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

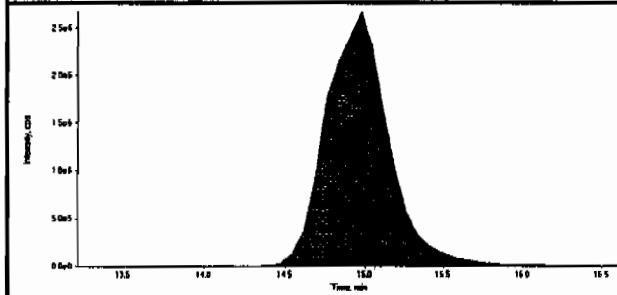
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

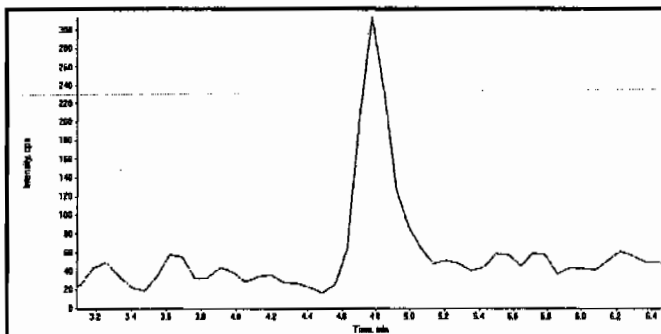
Data File	EXP0330024.wiff	Acquisition Date	3/30/2010 6:44:15 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



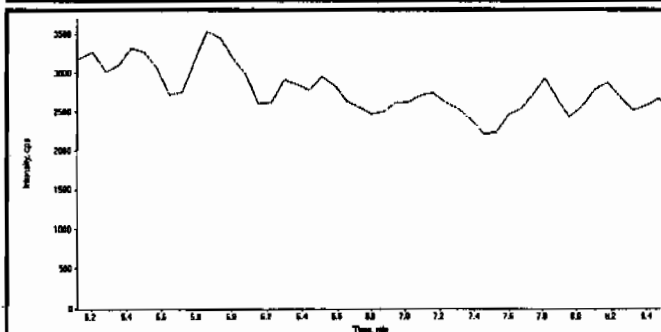
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	16400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	15.00
Area Counts:	74400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330024.wiff	Acquisition Date	3/30/2010 6:44:15 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

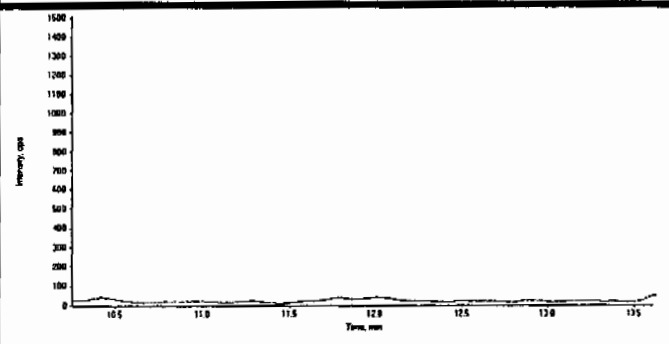
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

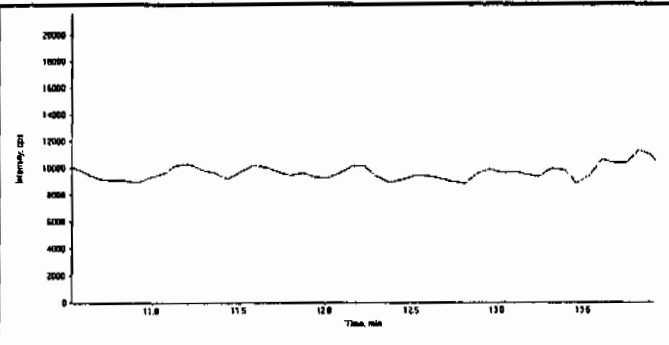
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

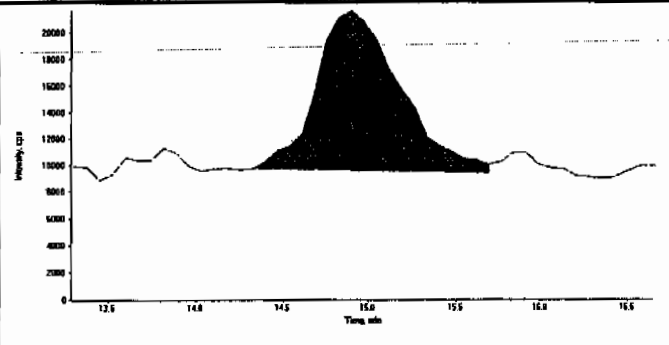
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

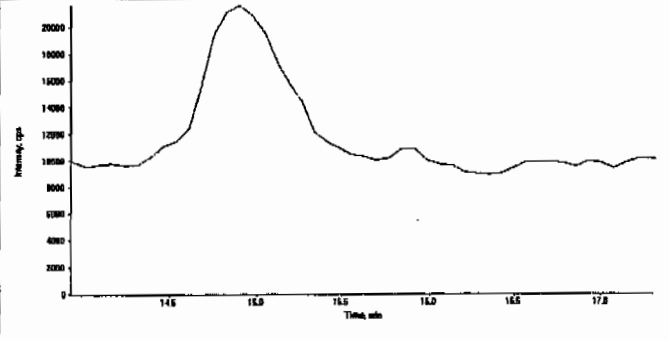
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330024.wiff	Acquisition Date	3/30/2010 6:44:15 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

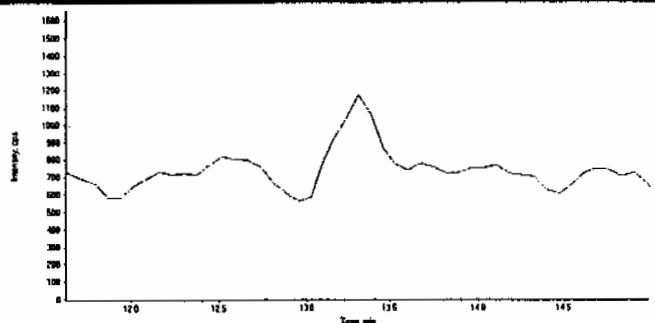
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.9
	Area Counts:	4.16e+005
	Manual Modification	No
	Amount:	3.09 (ng/mL)
	% Accuracy:	N/A

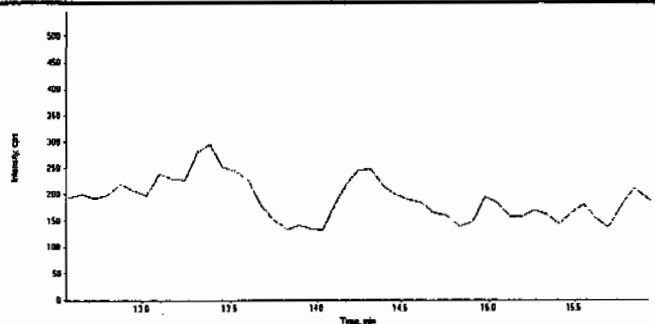
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

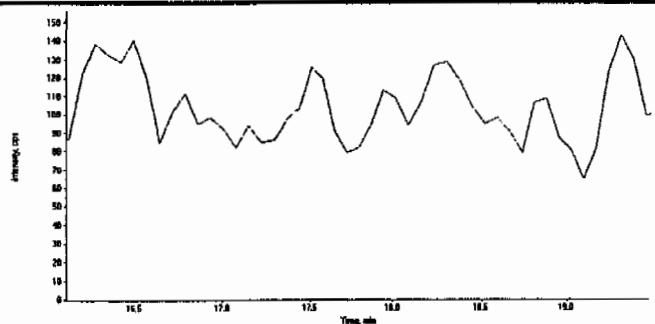
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

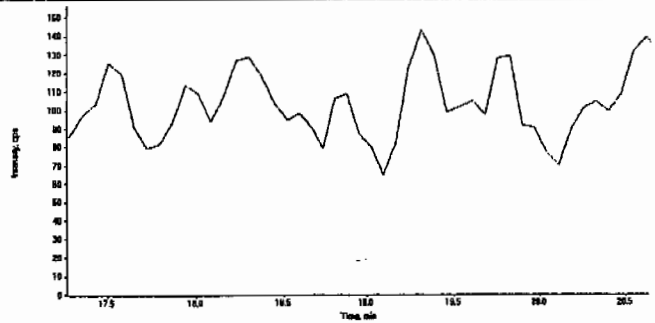
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330024.wiff	Acquisition Date	3/30/2010 6:44:15 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

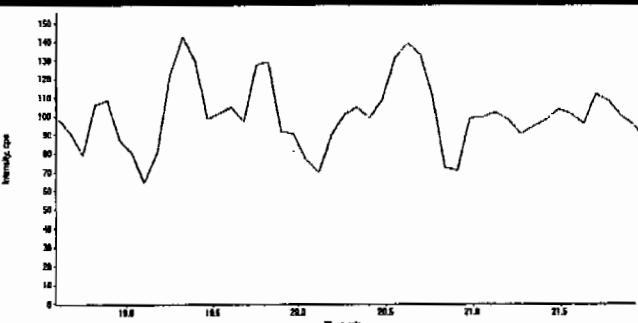
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

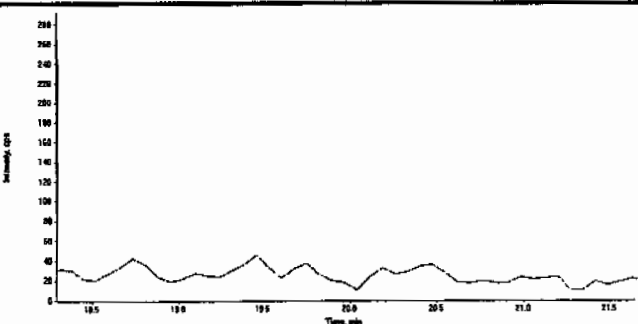
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330024.wiff	Acquisition Date	3/30/2010 6:44:15 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 31-MAR-10 00:27

GEL Data File: EXP0330037.wiff

Instrument ID: LCMSMS

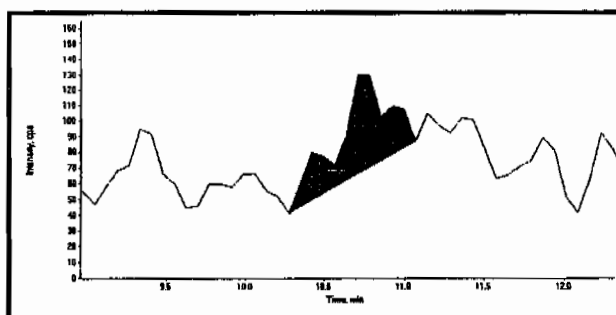
Column: Phenomenex Ultracarb 5u ODS(20)

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

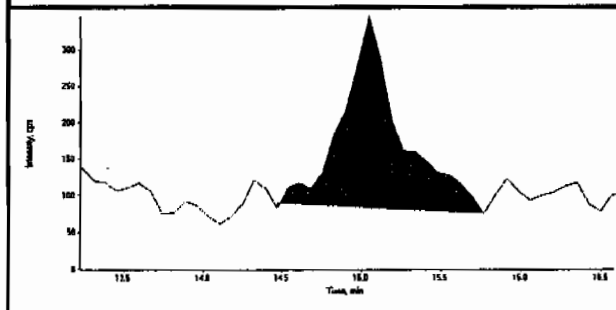
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

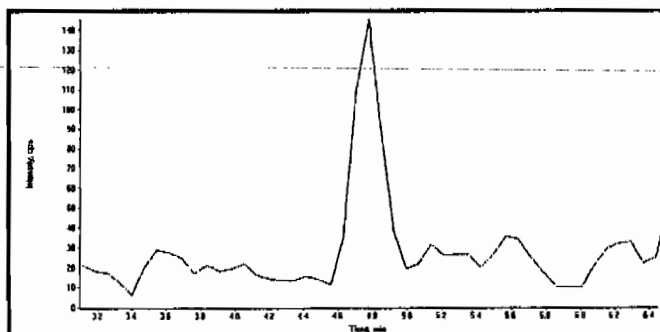
Data File	EXP0330037.wiff	Acquisition Date	3/31/2010 12:27:38 AM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



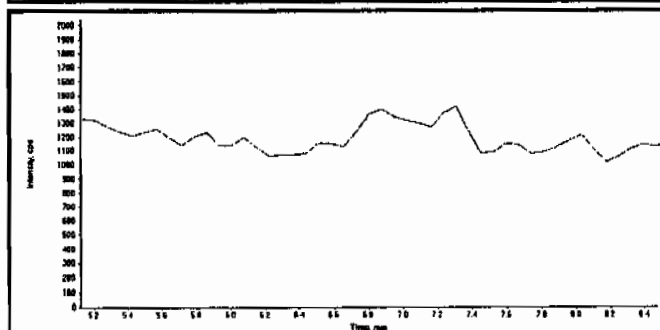
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.80
Area Counts:	1380.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	15.00
Area Counts:	6570.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*mis injection
no 1std recoveries*

*SLR
4/5/10*

*Amc
04/02/10*

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330037.wiff	Acquisition Date	3/31/2010 12:27:38 AM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330037.wiff	Acquisition Date	3/31/2010 12:27:38 AM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330037.wiff	Acquisition Date	3/31/2010 12:27:38 AM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

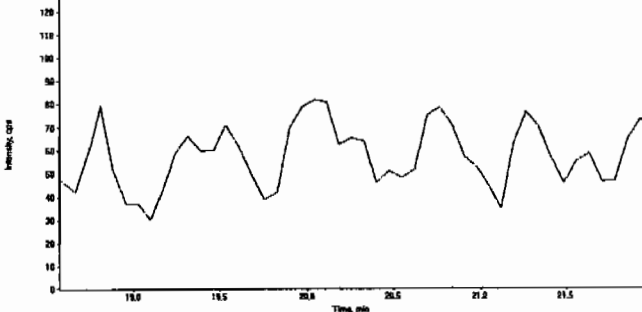
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

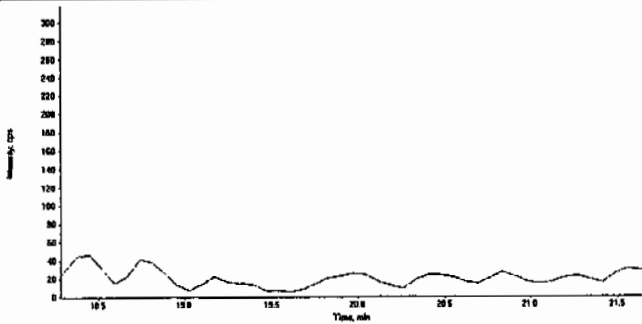
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330037.wiff	Acquisition Date	3/31/2010 12:27:38 AM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 01-APR-10 15:09

GEL Data File: EXP0401009.wiff

Instrument ID: LCMSMS

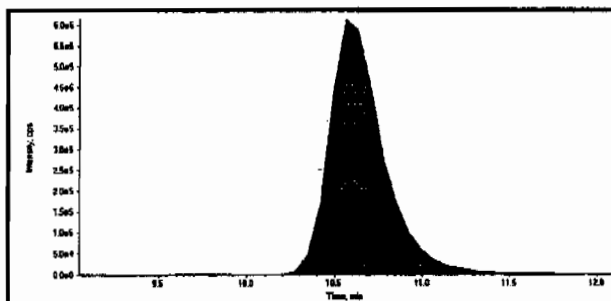
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	4.54
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

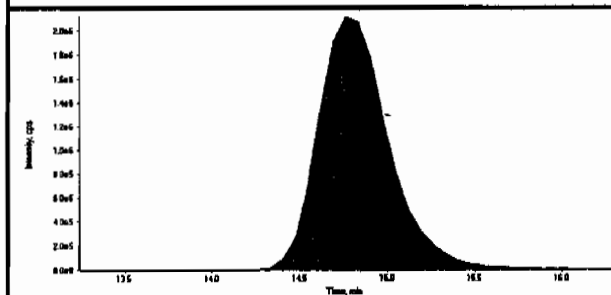
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

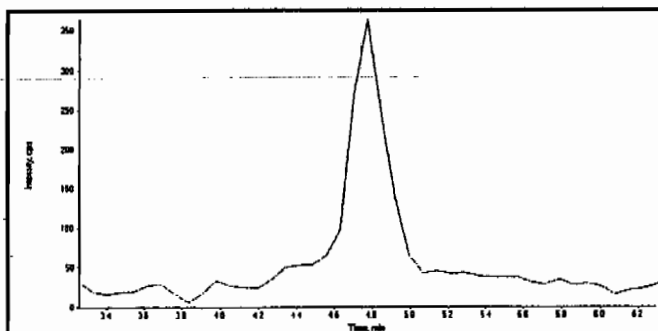
Data File	EXP0401009.wiff	Acquisition Date	4/1/2010 3:09:14 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



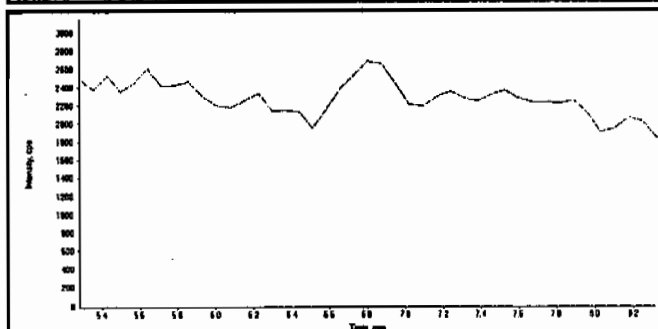
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	13100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	59900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Las 4/1/10
Amc 04/09/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401009.wiff	Acquisition Date	4/1/2010 3:09:14 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401009.wiff	Acquisition Date	4/1/2010 3:09:14 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	14.8
	Area Counts:	5.09e+005
	Manual Modification	No
	Amount:	4.54 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401009.wiff	Acquisition Date	4/1/2010 3:09:14 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

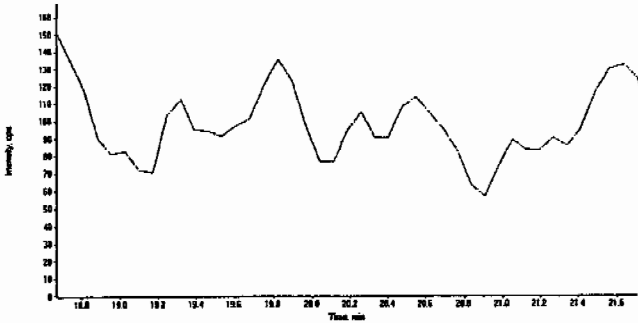
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

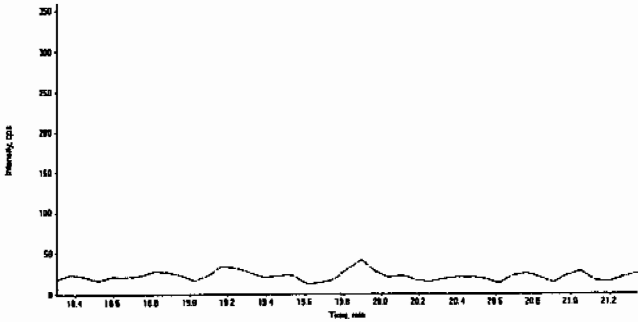
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401009.wiff	Acquisition Date	4/1/2010 3:09:14 PM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 01-APR-10 16:02

GEL Data File: EXP0401011.wiff

Instrument ID: LCMSMS

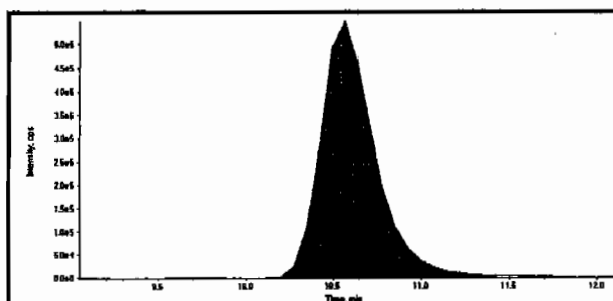
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	3.79
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0

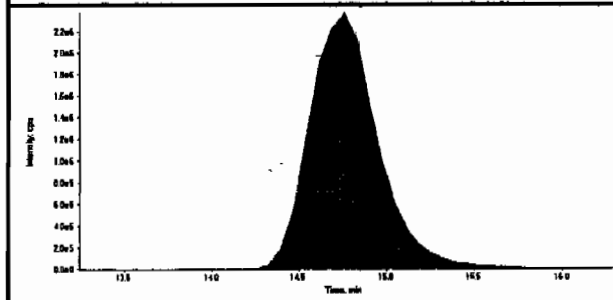
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

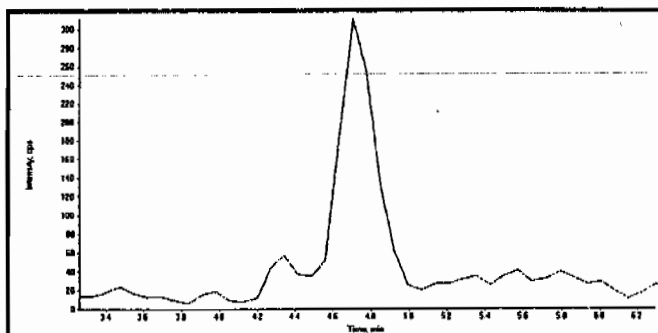
Data File	EXP0401011.wiff	Acquisition Date	4/1/2010 4:02:01 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER.	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



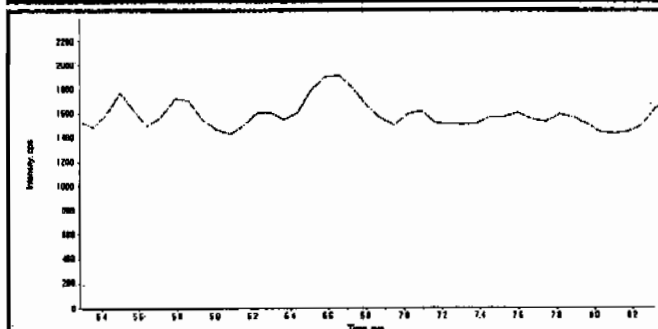
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	11800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	64700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

LER
4/9/10

Amc
04/09/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401011.wiff	Acquisition Date	4/1/2010 4:02:01 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

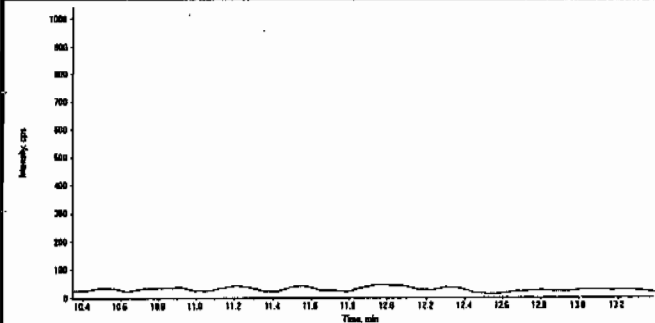
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

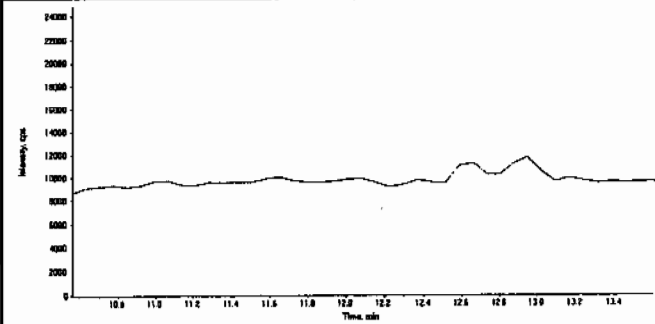
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

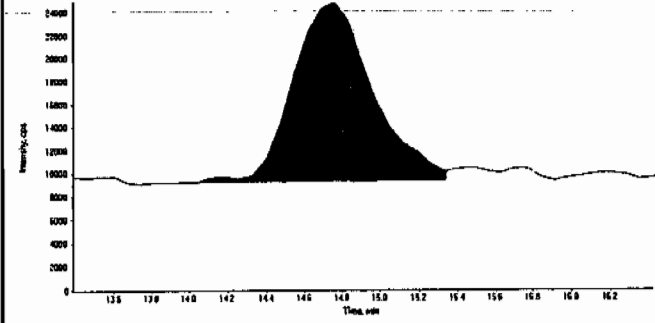
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

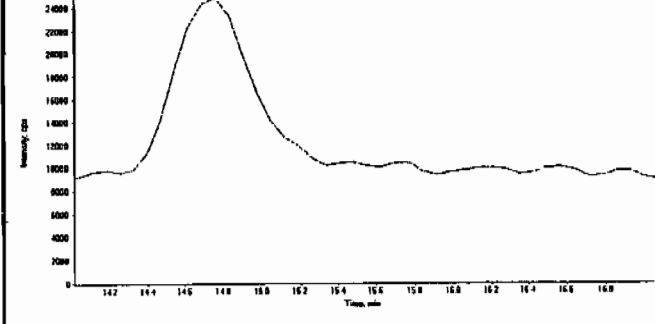
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401011.wiff	Acquisition Date	4/1/2010 4:02:01 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	14.8
	Area Counts:	4.60e+005
	Manual Modification	No
	Amount:	3.79 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401011.wiff	Acquisition Date	4/1/2010 4:02:01 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

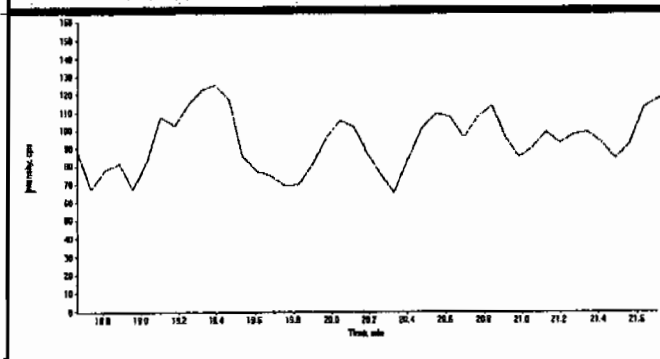
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

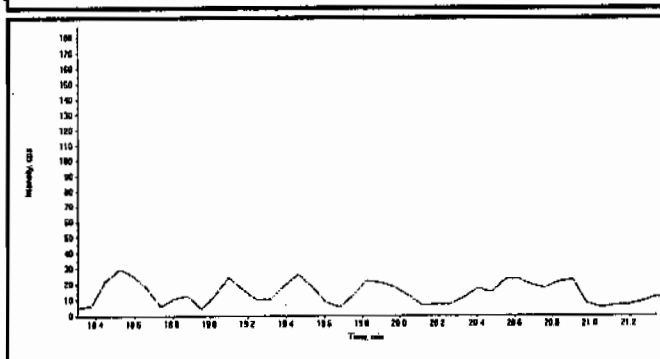
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401011.wiff	Acquisition Date	4/1/2010 4:02:01 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.2
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	19.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 01-APR-10 17:47

GEL Data File: EXP0401015.wiff

Instrument ID: LCMSMS

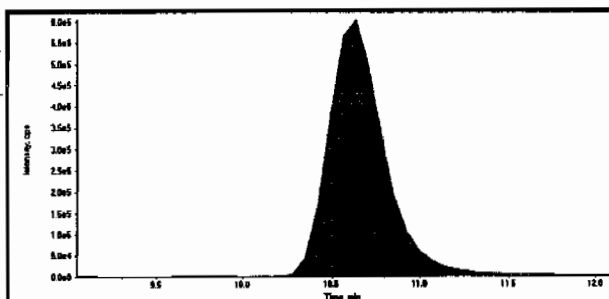
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	4.35
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

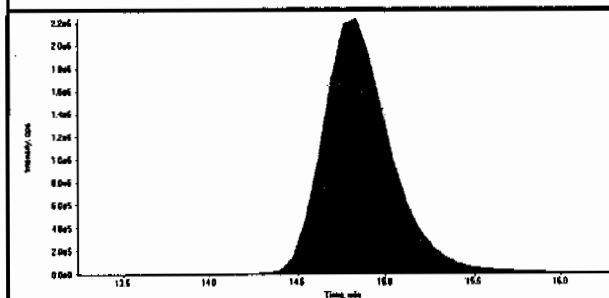
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

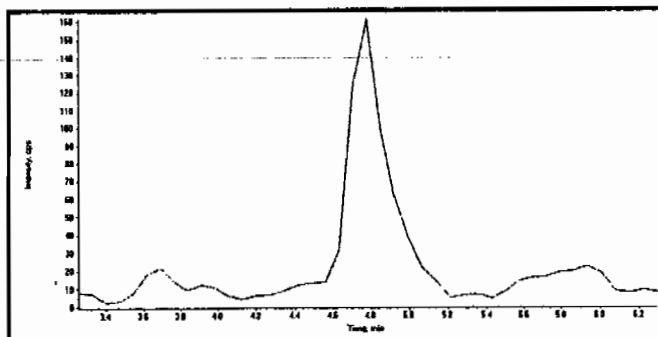
Data File	EXP0401015.wiff	Acquisition Date	4/1/2010 5:47:50 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



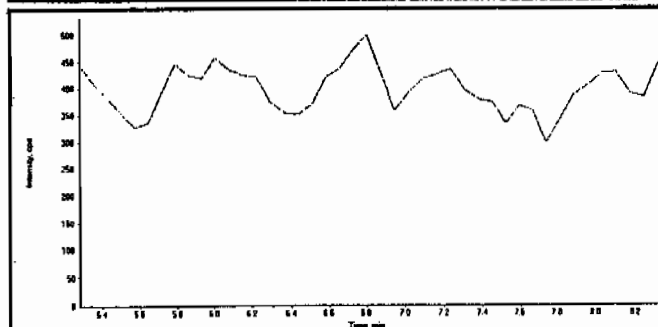
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	13300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	60200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



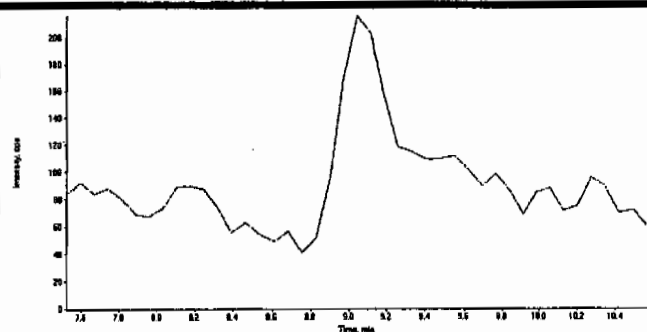
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
Ker 4/19/10
Hmx 04/09/10

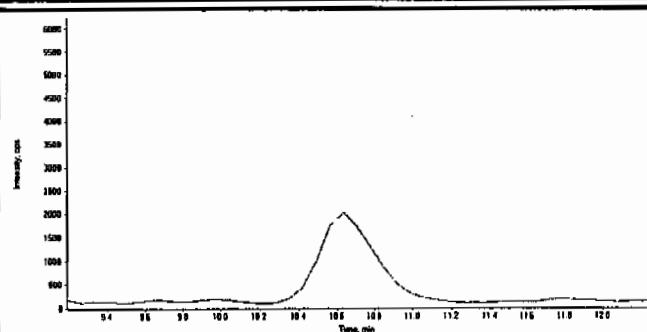
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

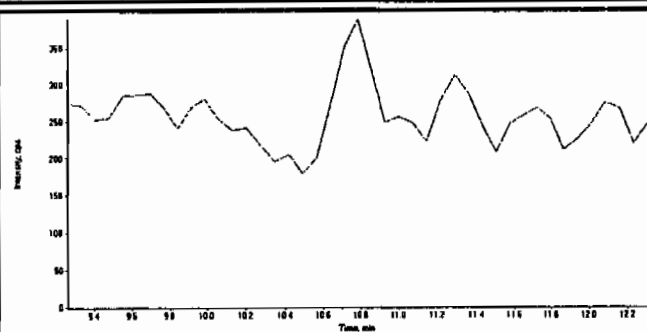
Data File	EXP0401015.wiff	Acquisition Date	4/1/2010 5:47:50 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



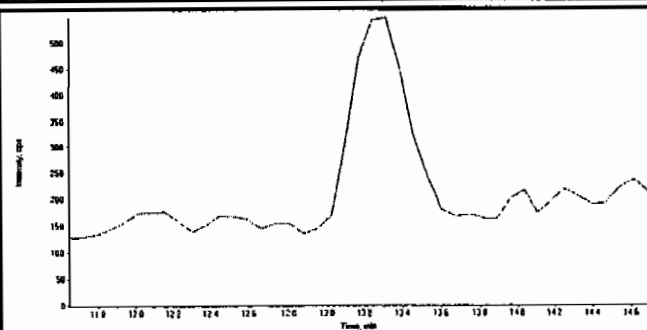
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	9.04
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.7
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

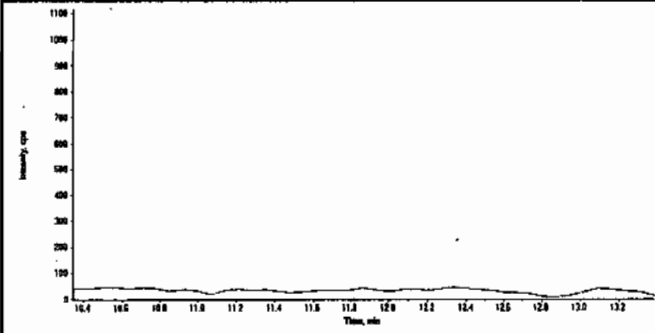


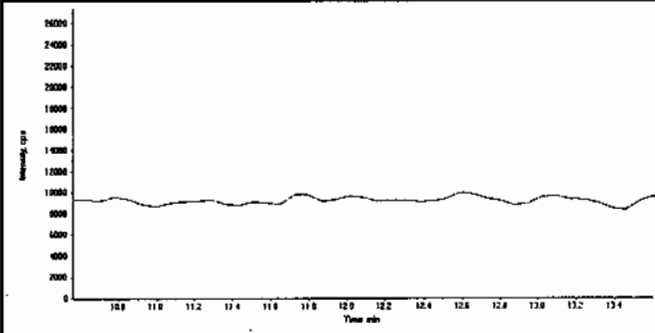
Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.2
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

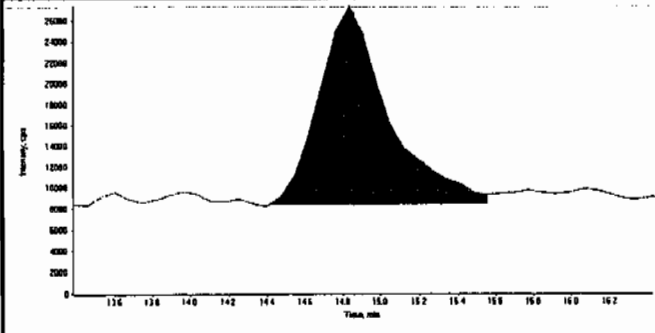
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

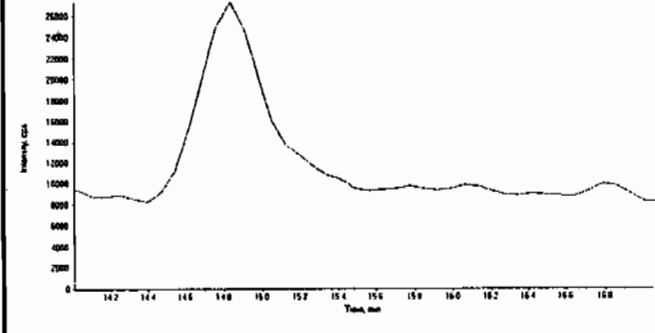
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401015.wiff	Acquisition Date	4/1/2010 5:47:50 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	14.8
	Area Counts:	4.91e+005
	Manual Modification	No
	Amount:	4.35 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401015.wiff	Acquisition Date	4/1/2010 5:47:50 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

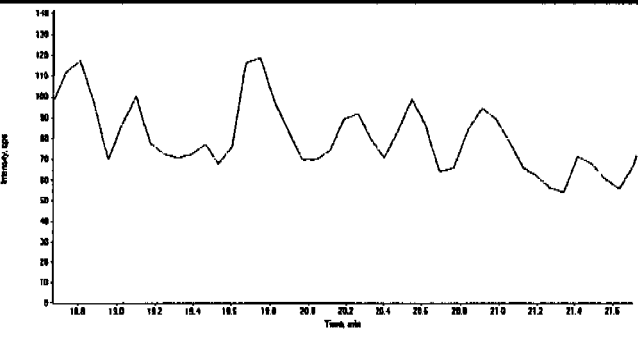
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

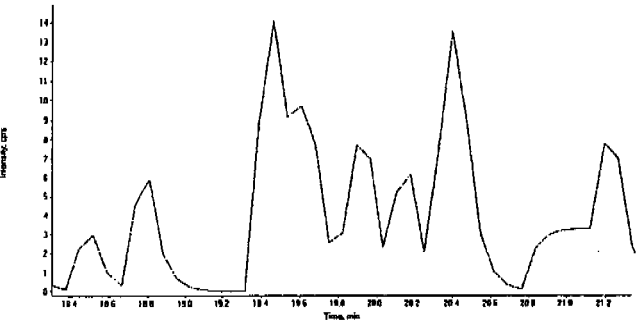
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401015.wiff	Acquisition Date	4/1/2010 5:47:50 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 01-APR-10 21:45

GEL Data File: EXP0401024.wiff

Instrument ID: LCMSMS

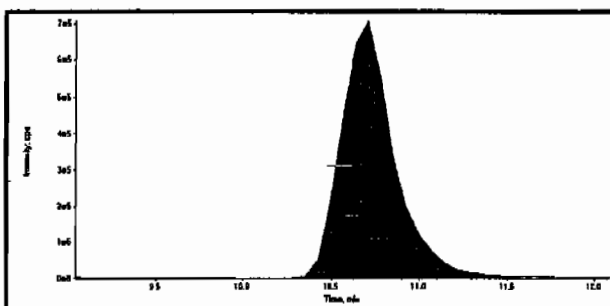
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	4.51
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

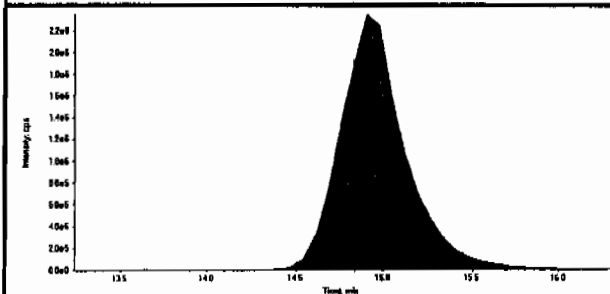
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

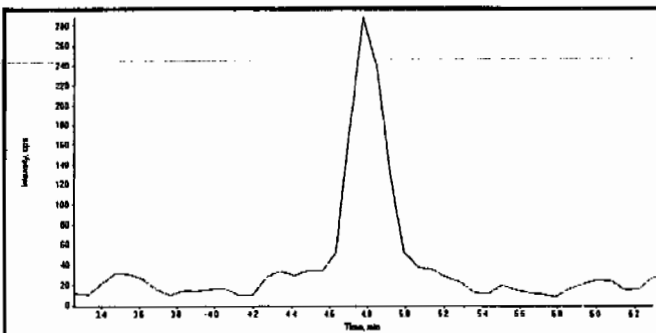
Data File	EXP0401024.wiff	Acquisition Date	4/1/2010 9:45:18 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



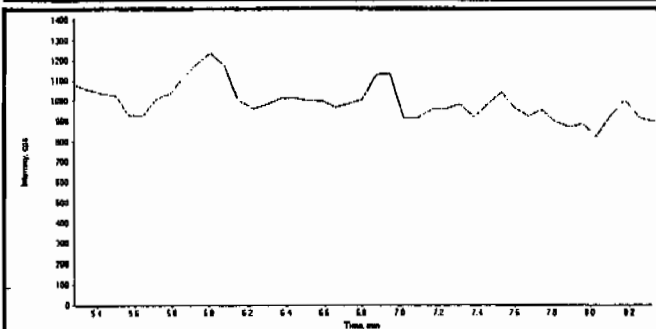
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	15100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.90
Area Counts:	60700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



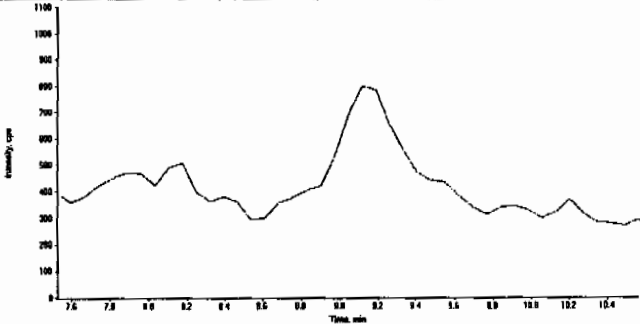
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

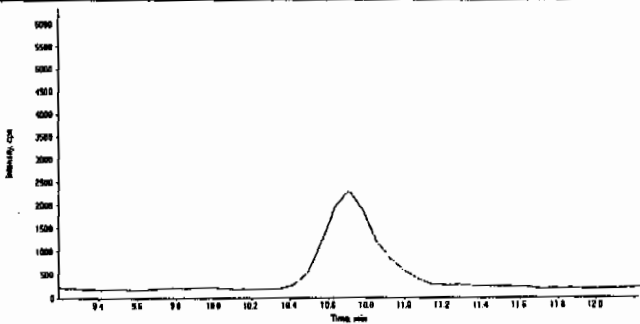
dat 4/19/10 *thru 04/09/10*

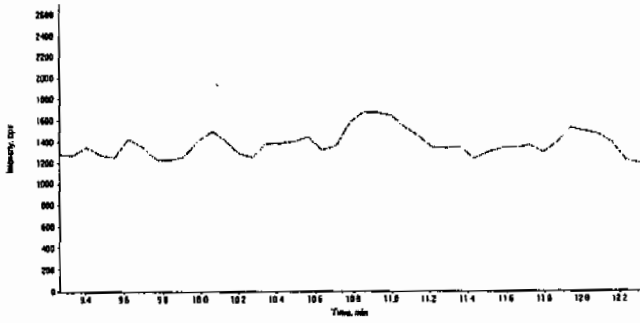
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

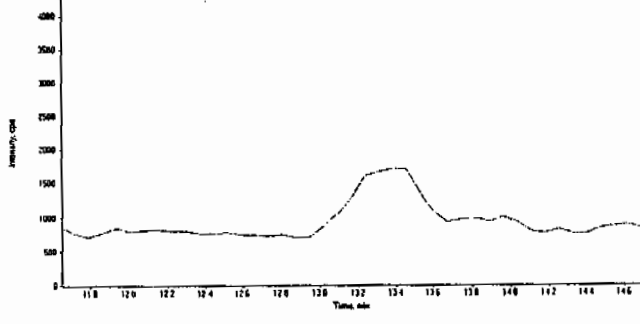
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401024.wiff	Acquisition Date	4/1/2010 9:45:18 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

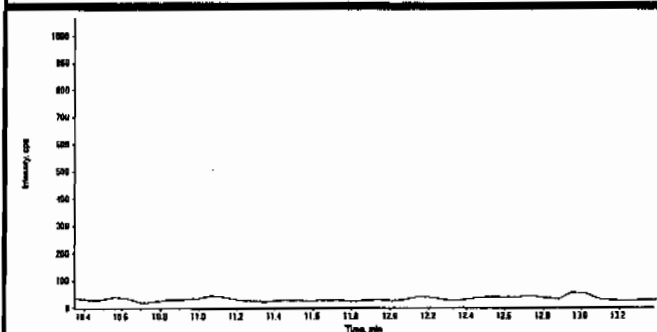
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

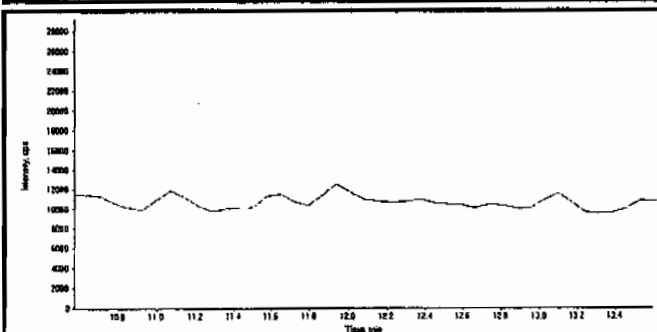
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

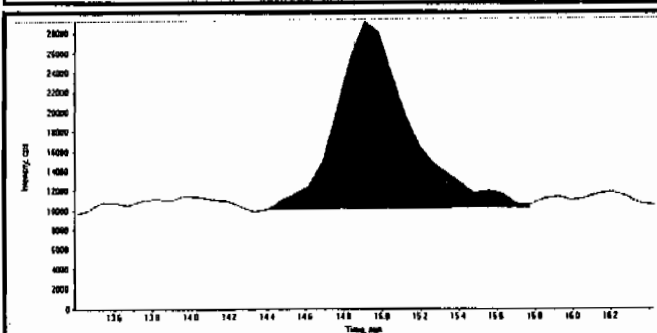
Data File	EXP0401024.wiff	Acquisition Date	4/1/2010 9:45:18 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



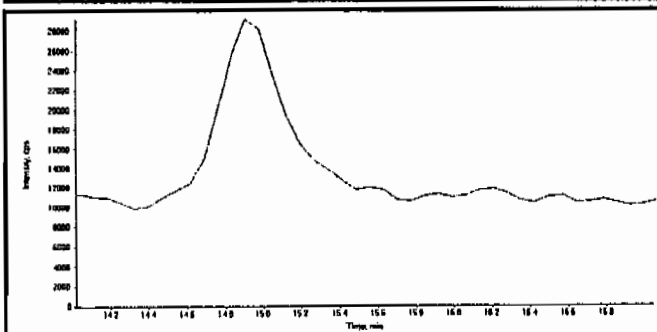
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.9
Actual RT:	14.9
Area Counts:	5.14e+005
Manual Modification	No
Amount:	4.51 (ng/mL)
% Accuracy:	N/A

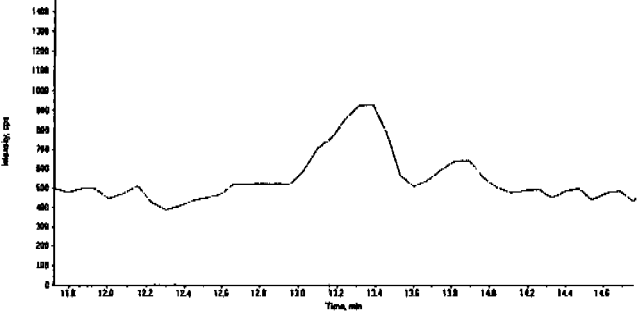


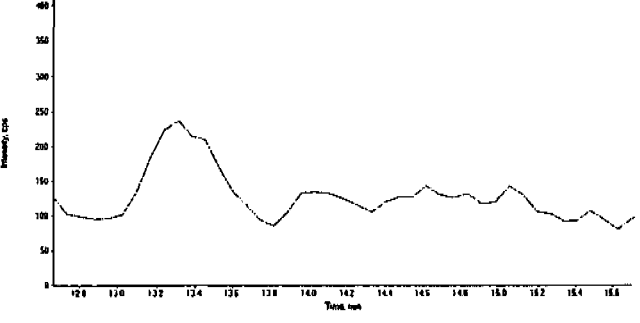
Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.5
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

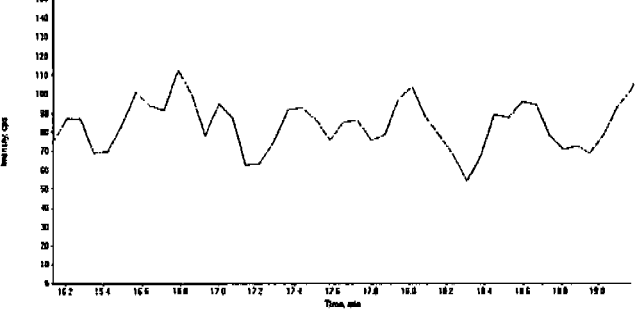
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

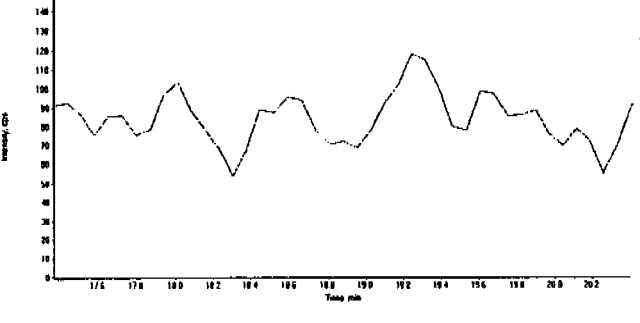
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401024.wiff	Acquisition Date	4/1/2010 9:45:18 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

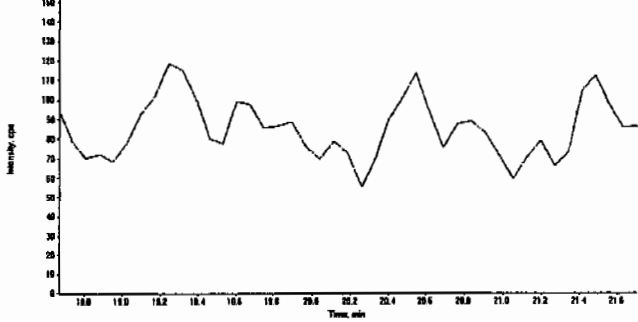
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

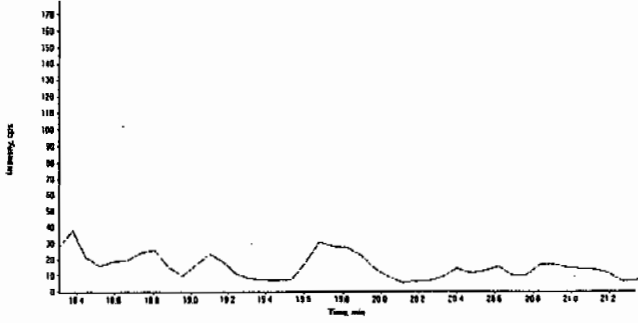
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401024.wiff	Acquisition Date	4/1/2010 9:45:18 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 10-MAR-10 17:52

GEL Data File: EXS03100010.wiff

Instrument ID: LCMSMS

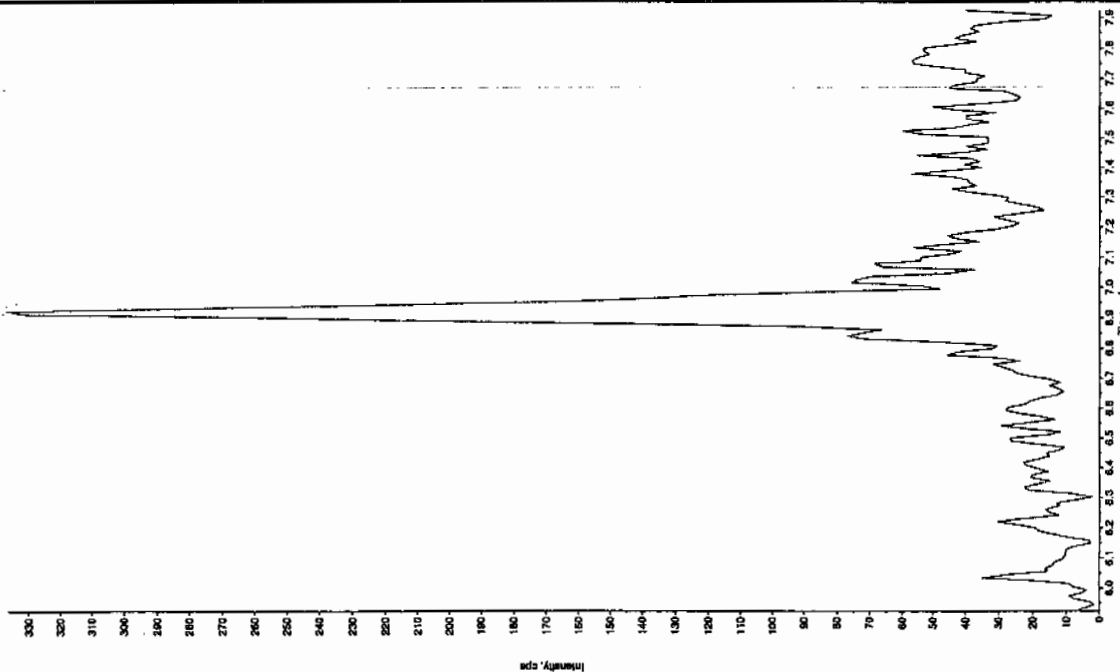
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.61
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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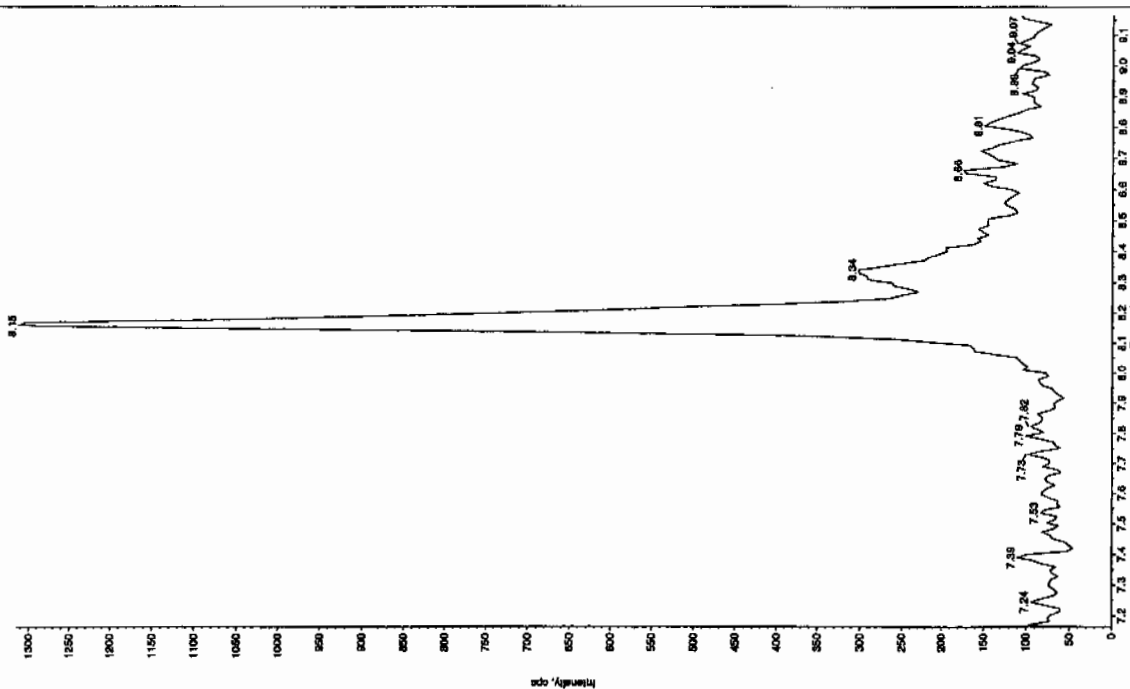
Sample Name: "XIBLK02" Sample ID: "JILLER" File: "EX903100010.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/10/2010
 Acq. Date: 5:52:48 PM
 Acq. Time: 30
 Modified:



Sample Name: "XIBLK02" Sample ID: "JILLER" File: "EX903100010.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

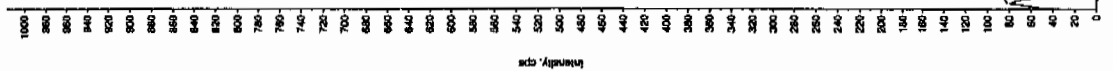
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/10/2010
 Acq. Date: 5:52:48 PM
 Acq. Time: 30
 Modified:



Jan 03/15/10

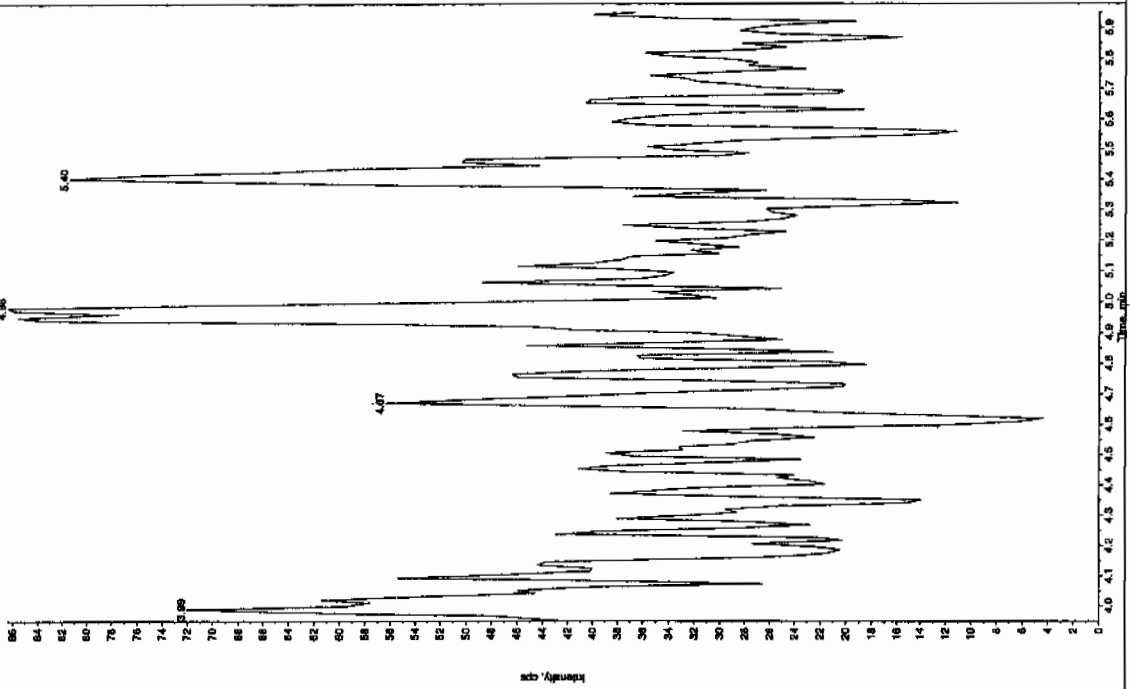
Sample Name: "XIBLK02" Sample ID: "111ER" File: "EX503100010.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.8 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 5:52:18 PM
 Modified: NO



Sample Name: "XIBLK02" Sample ID: "111ER" File: "EX503100010.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0/185.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

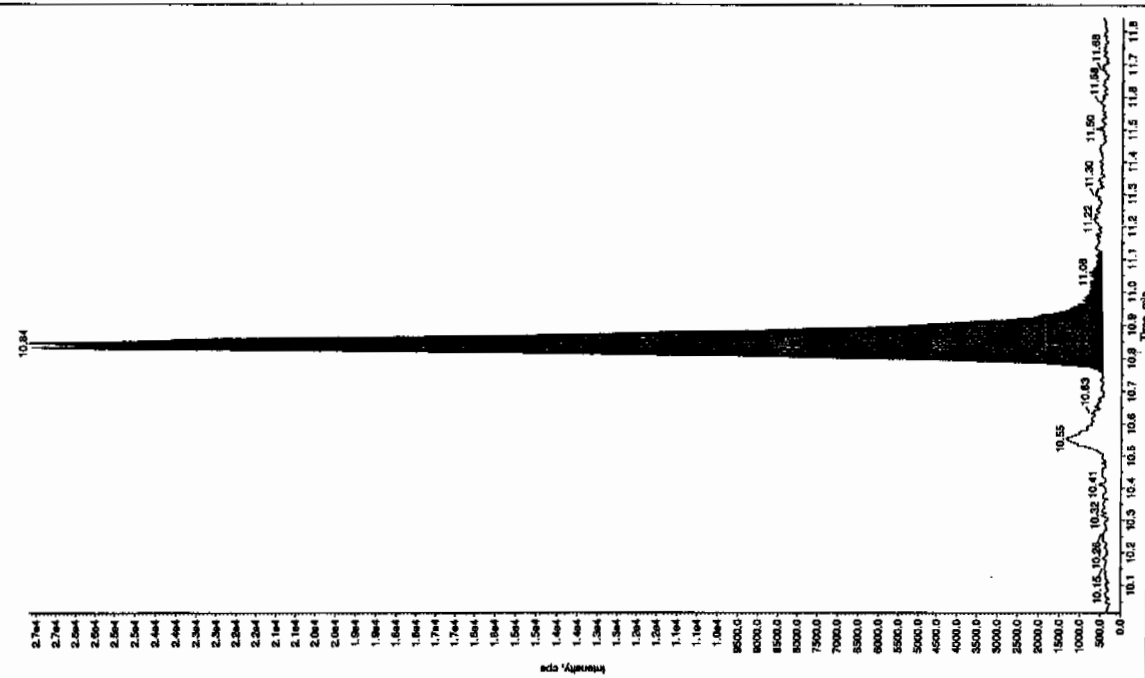
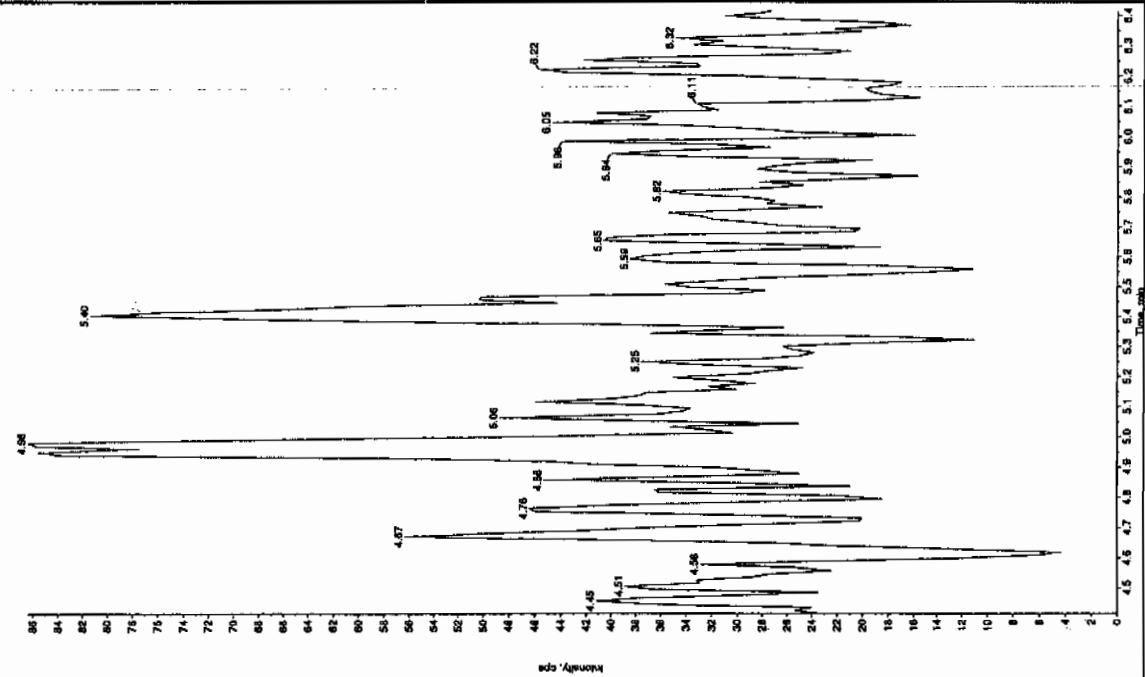
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 5:52:48 PM
 Modified: NO



Sample Name: 'XBLK02' Sample ID: '11LER' File: 'EX833100010.wif'
 Peak Name: '24-Chloro-6-nitrofluorene' Mass(es): '166.046.0 amu'
 Comment: 'LCMS-EXP_B' Annotation: '1'

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.60 ng/mL
 Acquisition Date: 3/10/2010
 Acquisition Time: 5:52:48 PM
 Modified: No

Sample Index: 1
 Sample Type: Unknown
 Concentration: 3.61 ng/mL
 Acquisition Date: 3/10/2010
 Acquisition Time: 5:52:48 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Peak Height: 1.13e+05 cps
 Start Time: 10.7 min
 End Time: 11.1 min



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 10-MAR-10 18:24

GEL Data File: EXS03100012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.32
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 2/13/10

Sample Name: "XIBLK03" Sample ID: "JILER" File: "EX503100012.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

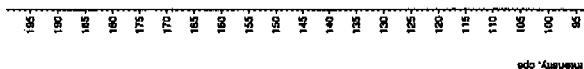
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/10/2010

Acq. Time: 5:24:12 PM

Modified: No



Sample Name: "XIBLK03" Sample ID: "JILER" File: "EX503100012.wif"

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

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

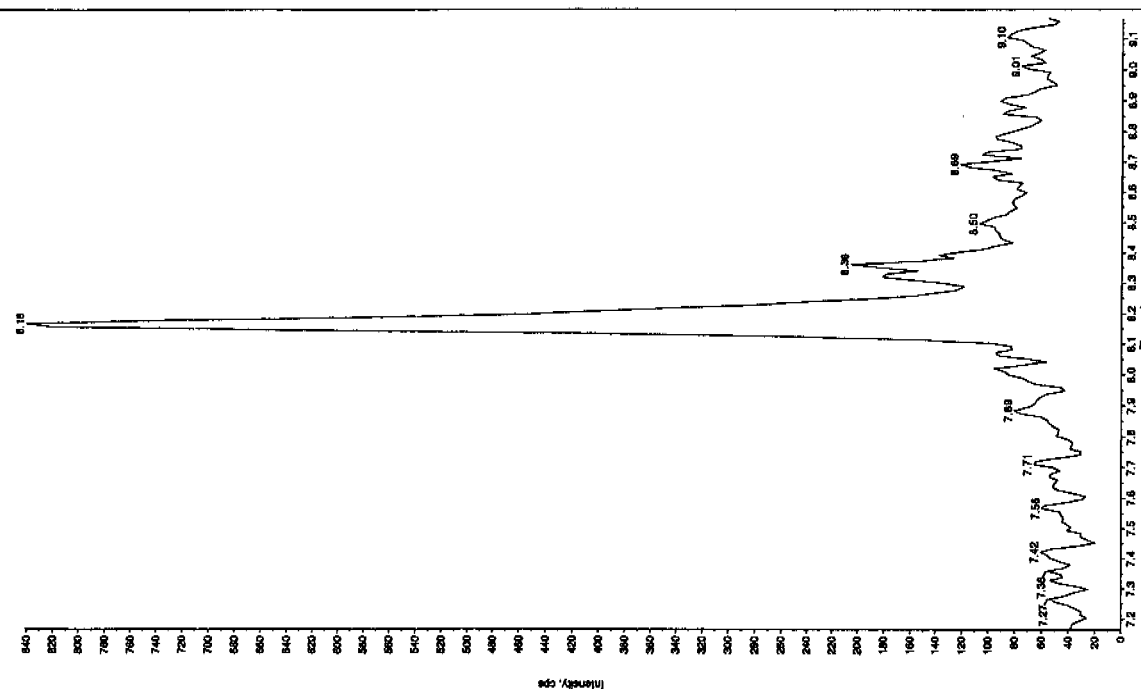
Concentration: N/A

Calculated Conc: 0.00 ng/mL

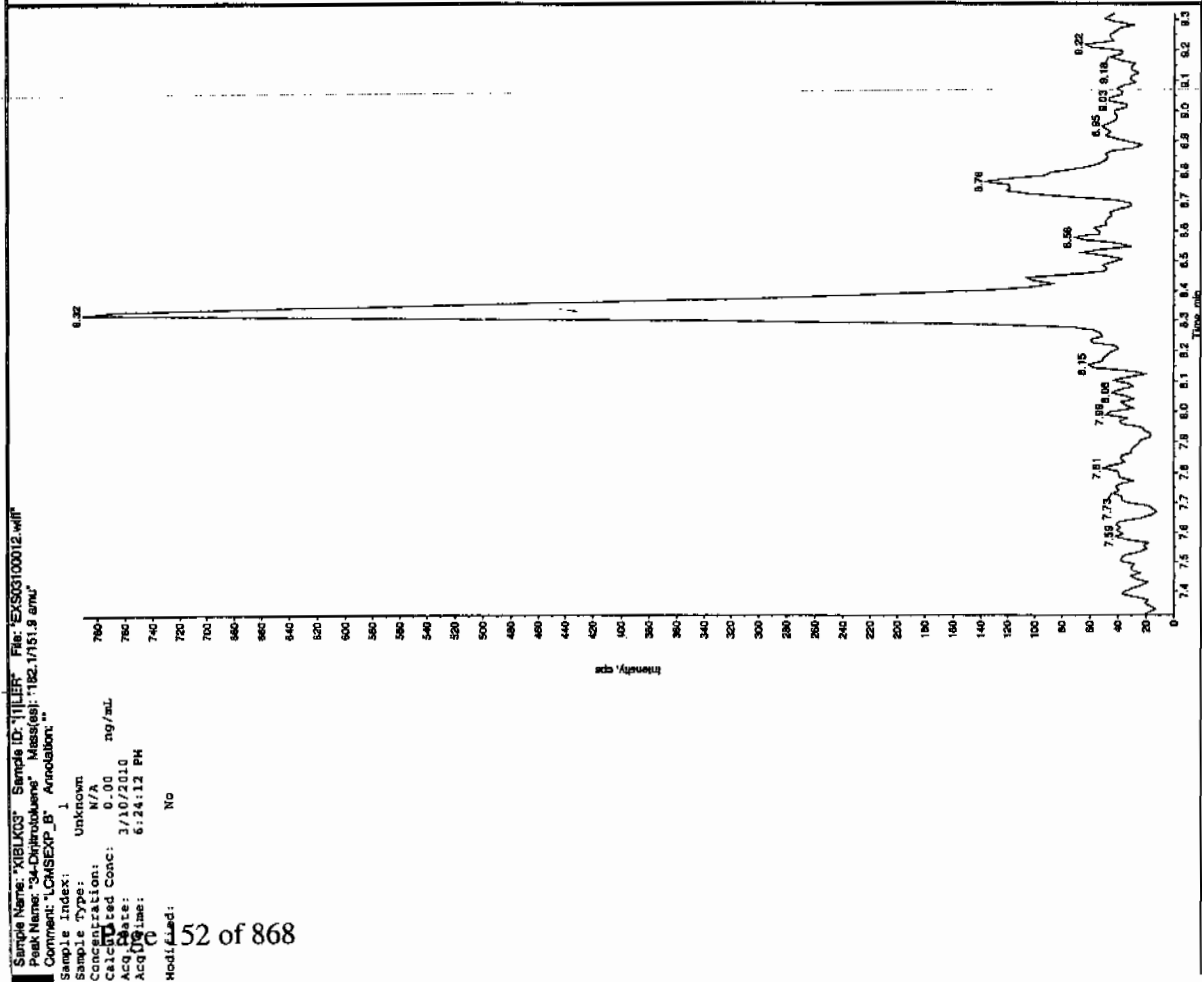
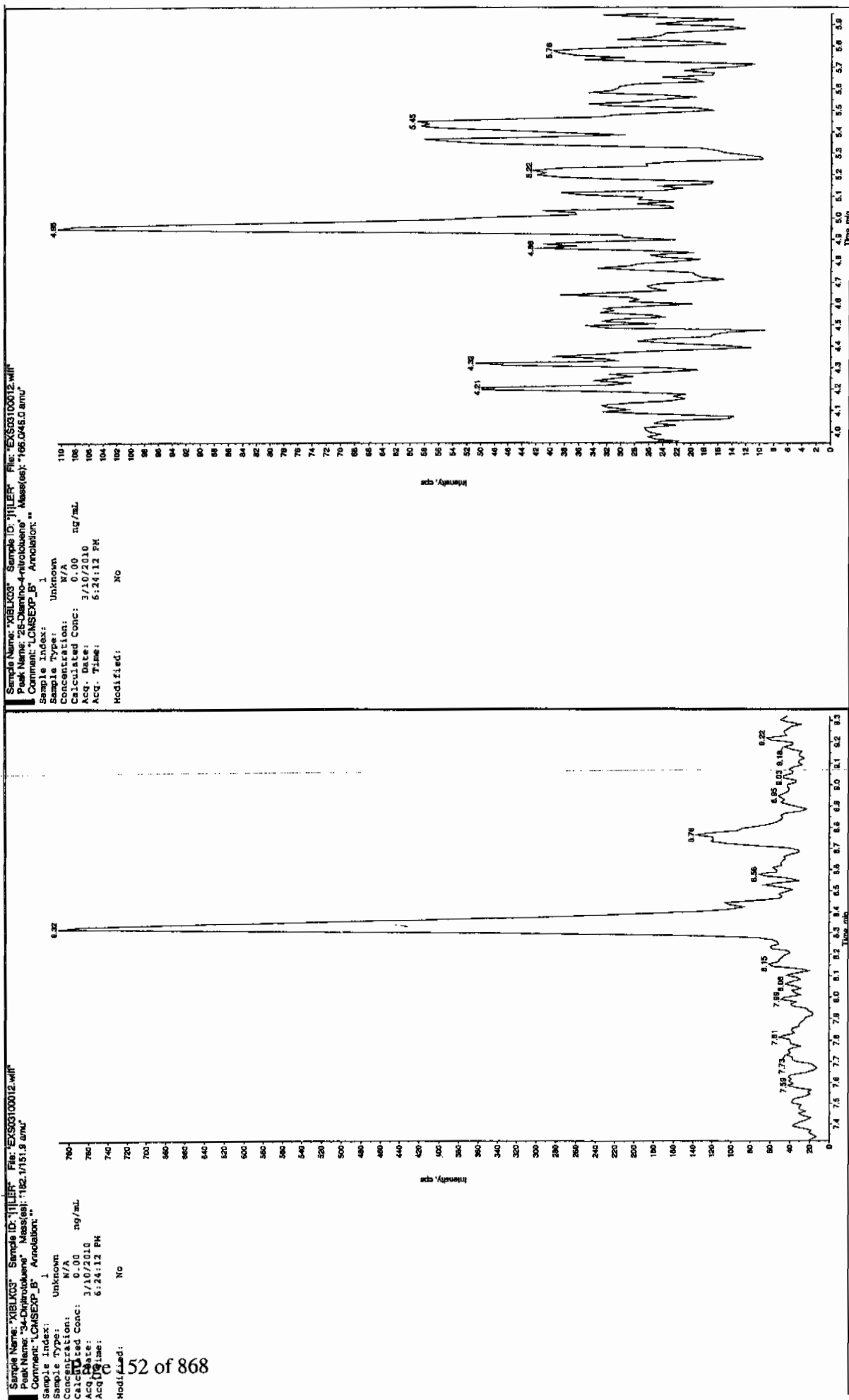
Acq. Date: 3/10/2010

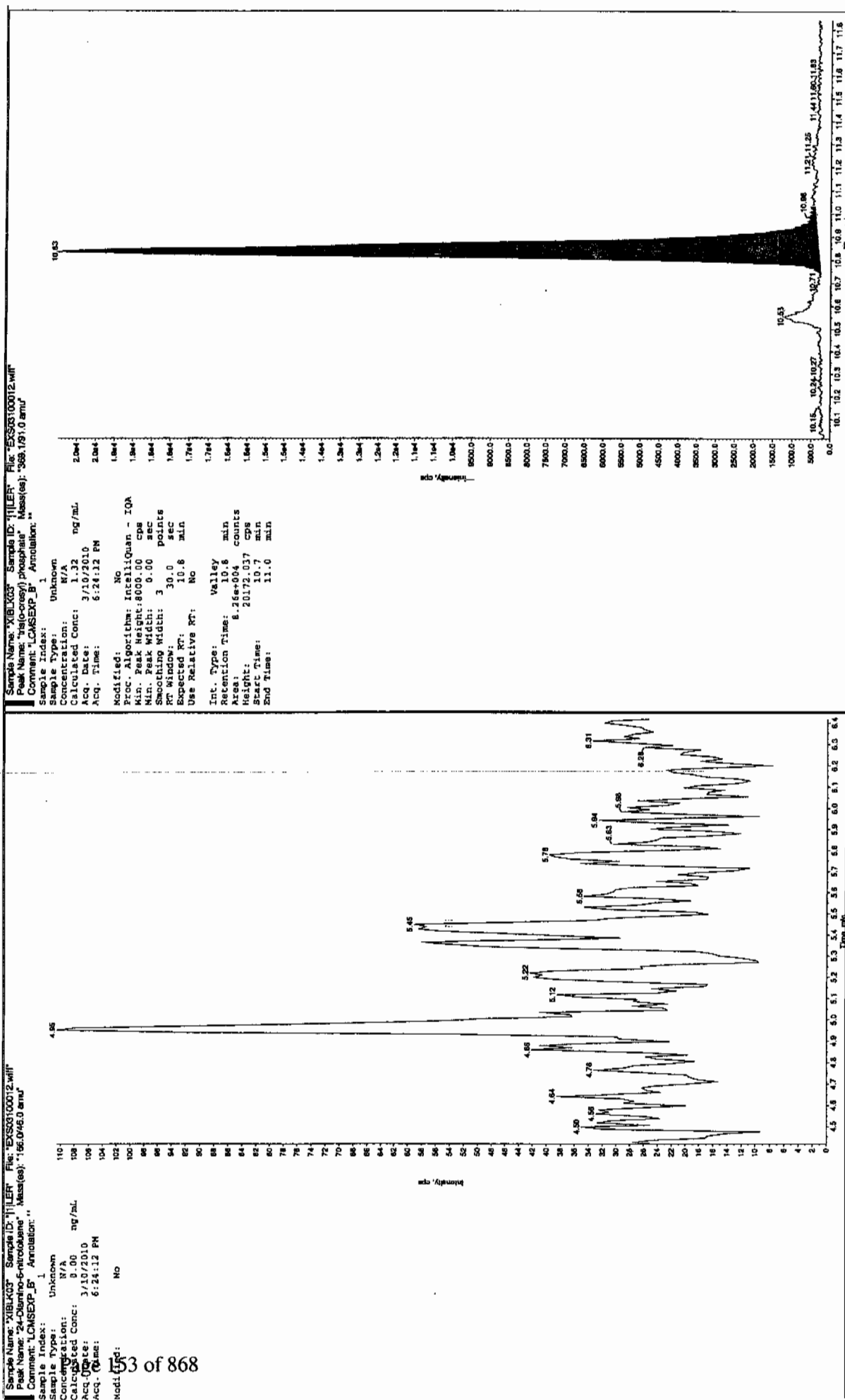
Acq. Time: 6:24:12 PM

Modified: No



Amc 03/15/10





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 10-MAR-10 21:48

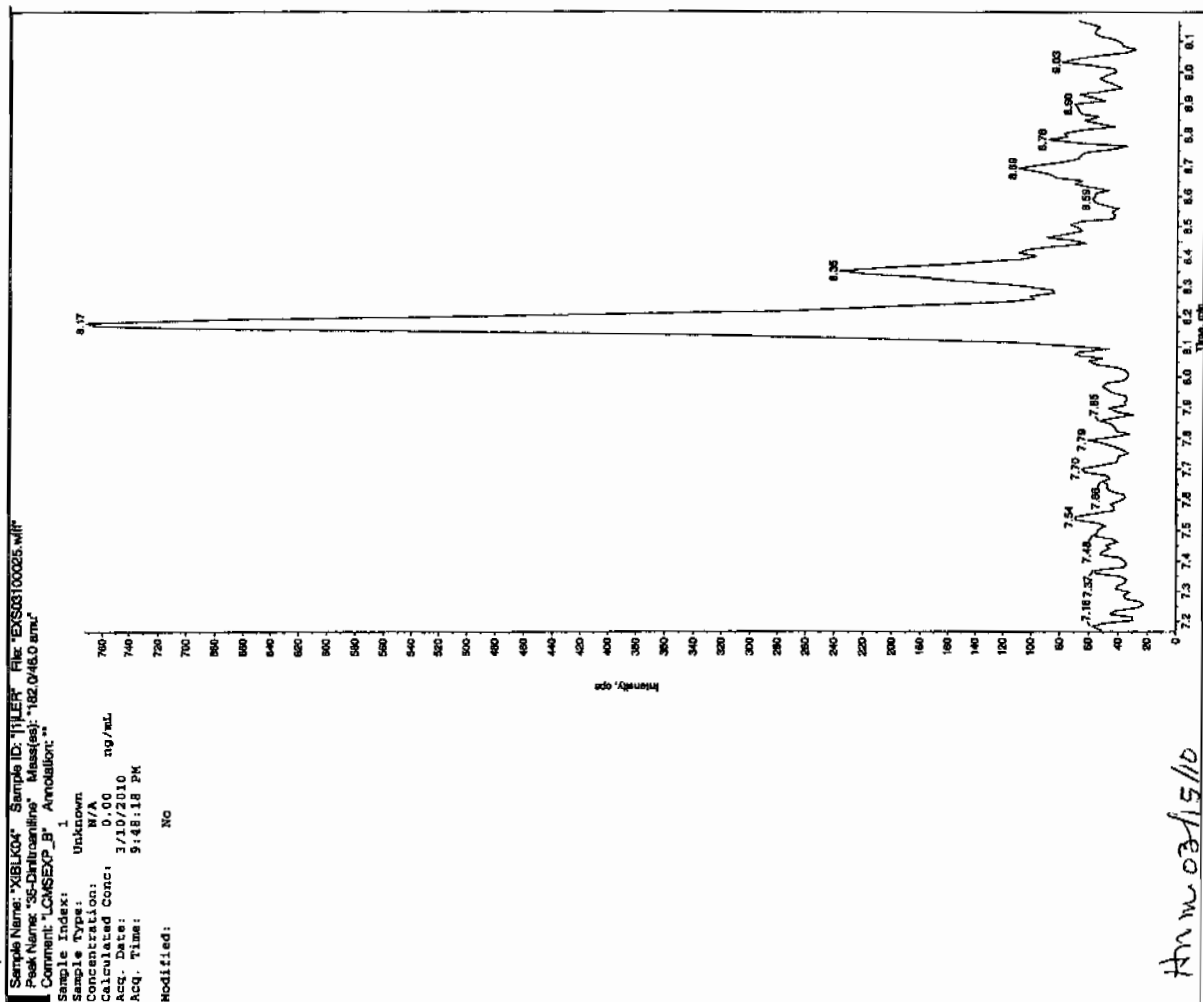
GEL Data File: EXS03100025.wiff

Instrument ID: LCMSMS

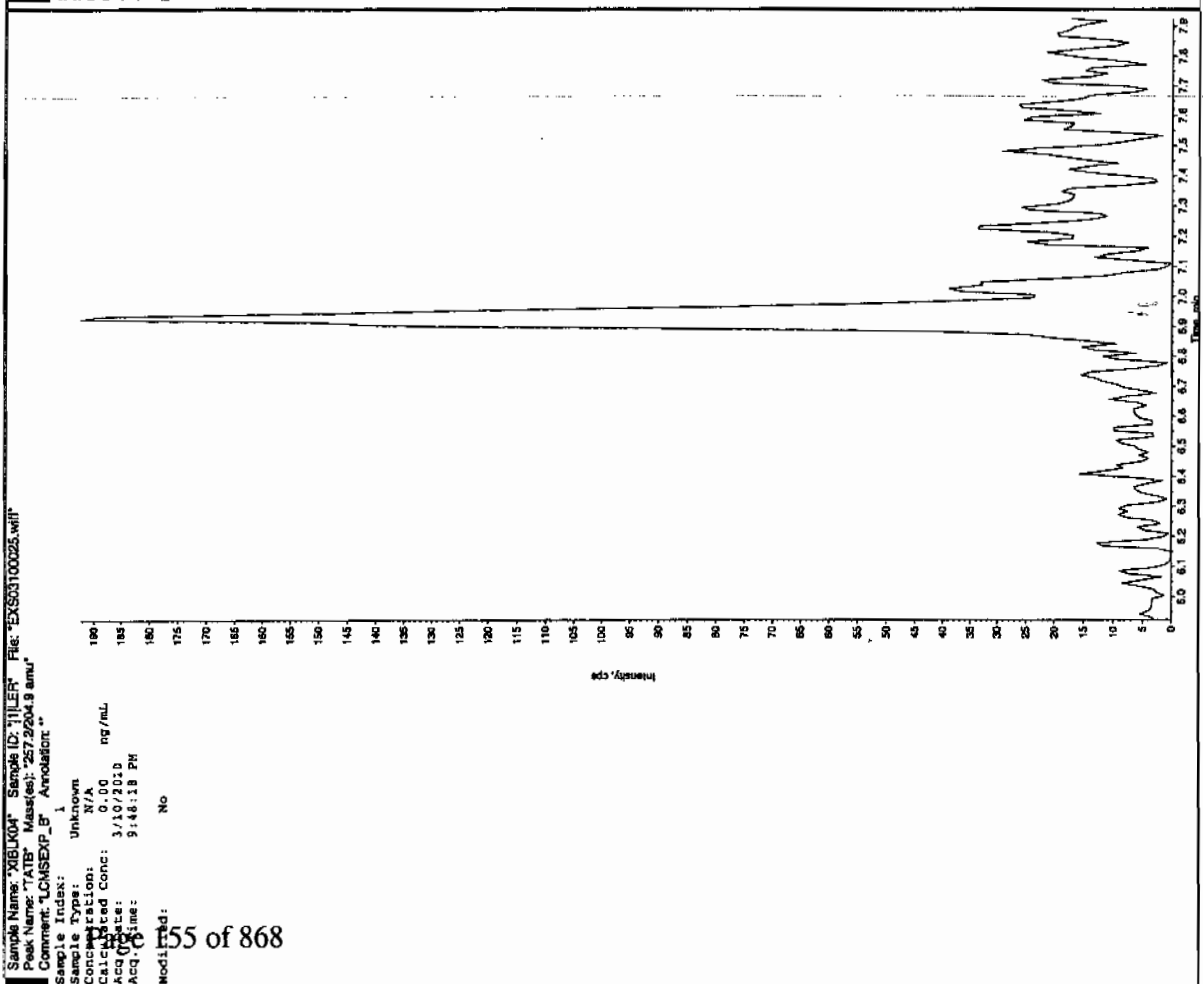
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.283
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/13/10



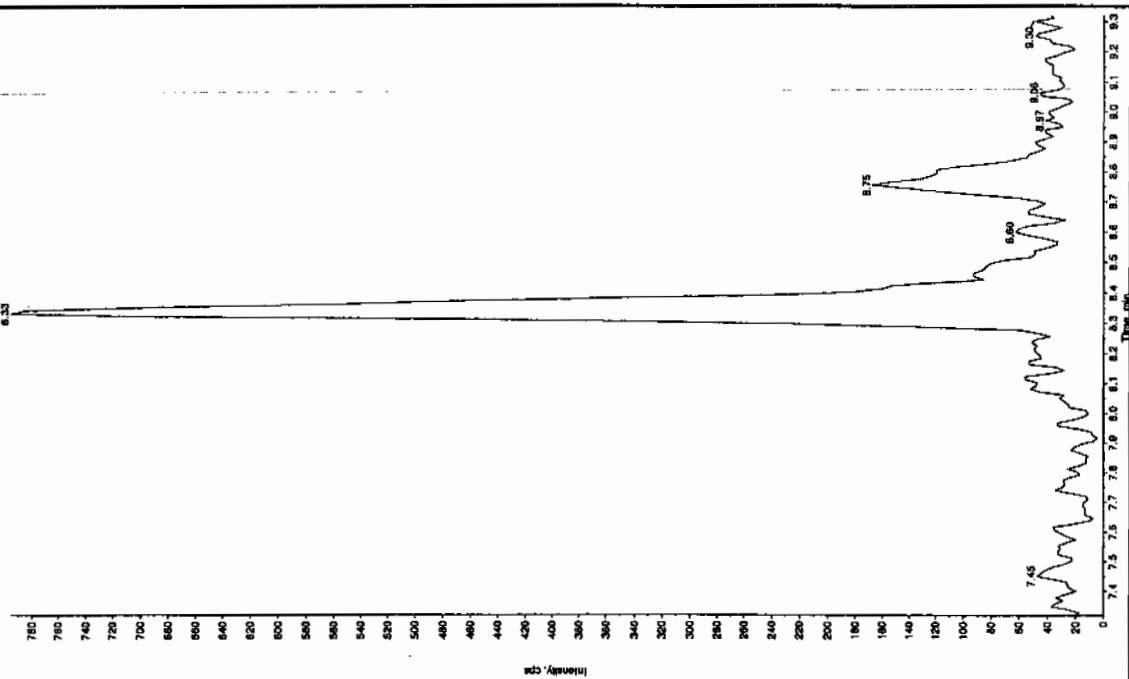
Jan 03/15/10



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

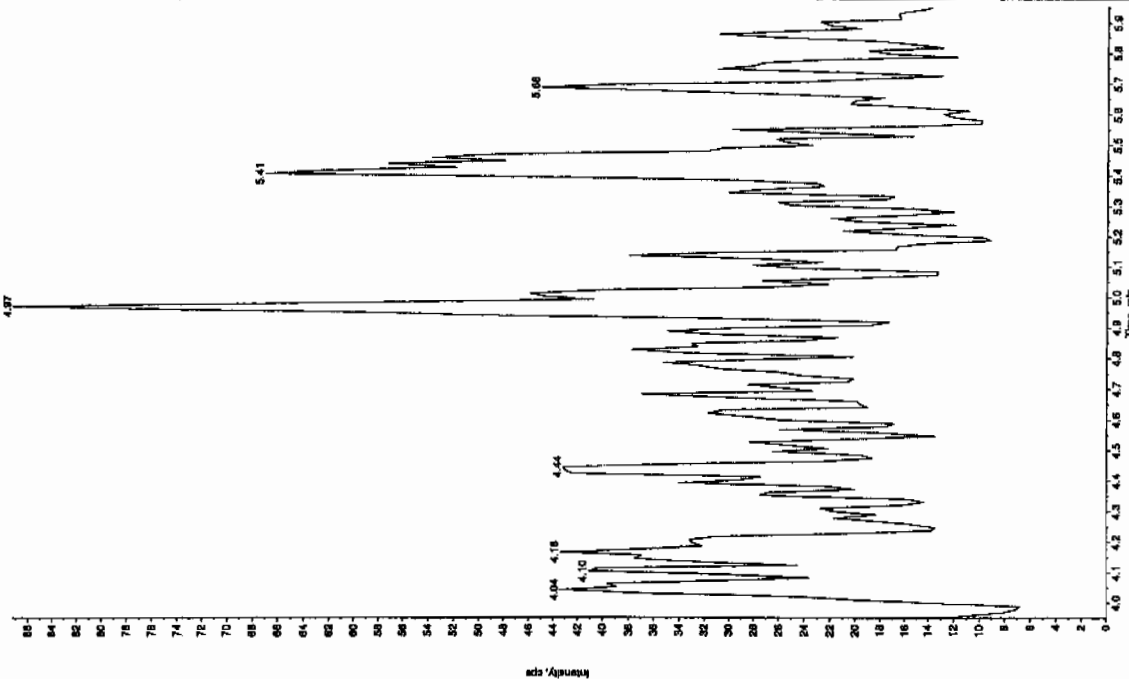
Sample Name: 'XBLK04' Sample ID: '11111' File: 'EX80310025.wif'
 Peak Name: '34-Dinitrofluorene' Mass(es): '182.1751.8 amu'
 Comment: 'LCMS04_P' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 9:48:18 PM
 Modified: No



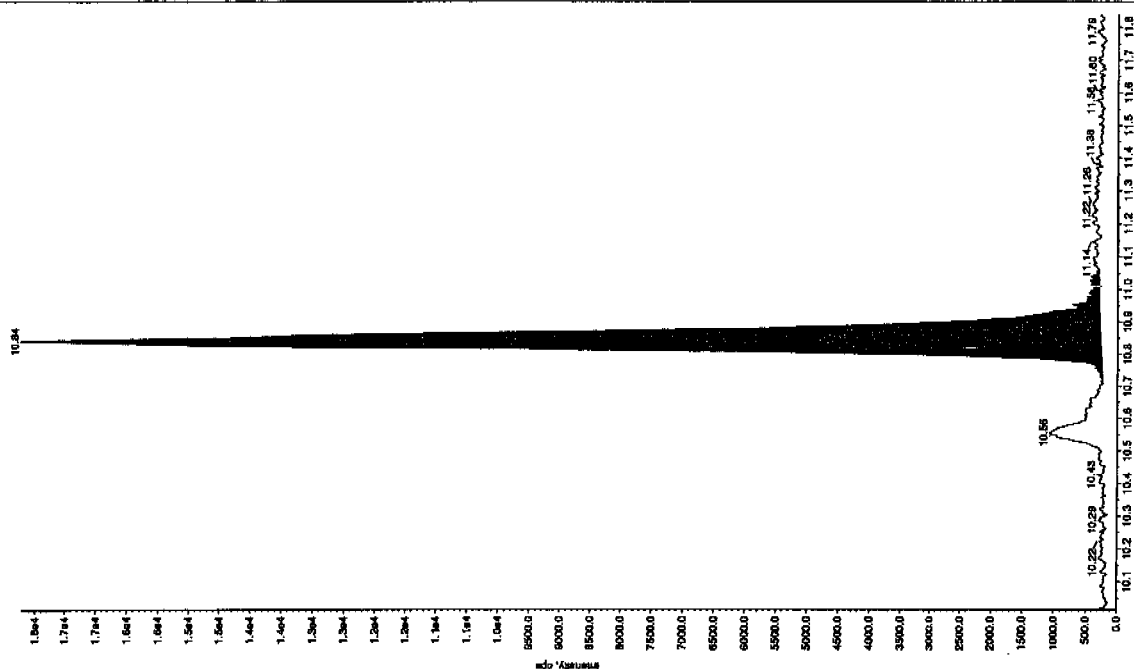
Sample Name: 'XBLK04' Sample ID: '11111' File: 'EX80310025.wif'
 Peak Name: '28-Dinitro-4-nitrofluorene' Mass(es): '186.046.0 amu'
 Comment: 'LCMS04_P' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 9:48:18 PM
 Modified: No



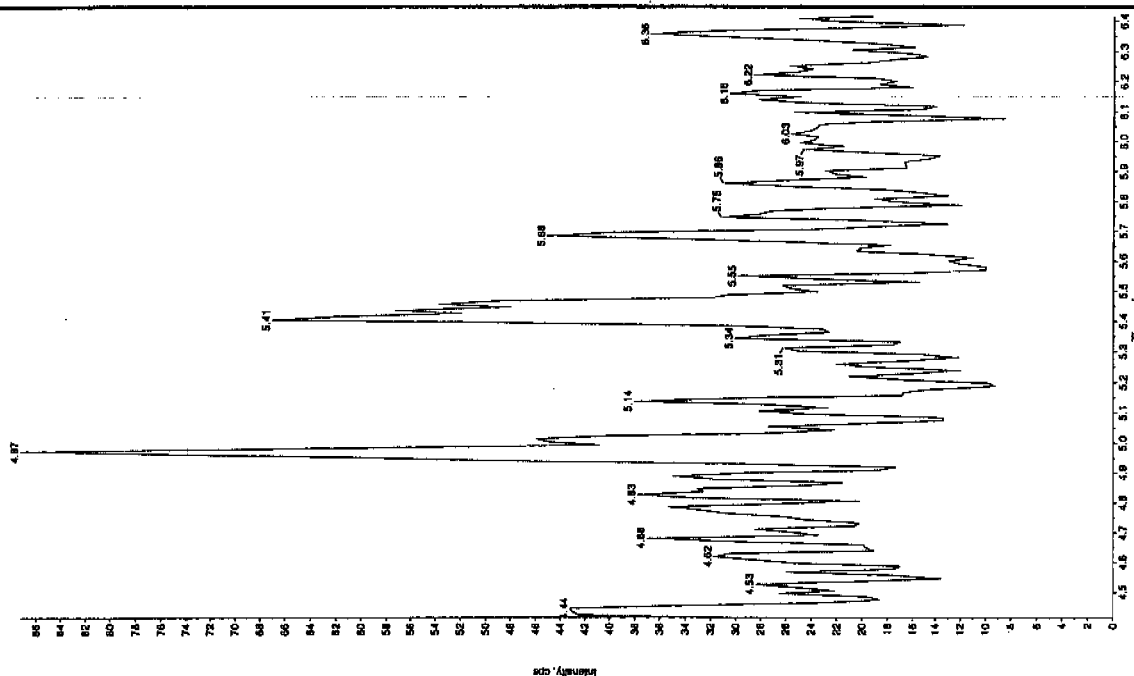
Sample Name: "XBLX04" Sample ID: "11LER" File: "EX53100025.wit"
 Peak Name: "Tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.283 ng/mL
 Acq. Time: 9:48:18 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.88e+004 counts
 Height: 17471.106 cps
 Start Time: 10.7 min
 End Time: 11.1 min



Sample Name: "XBLX04" Sample ID: "11LER" File: "EX53100025.wit"
 Peak Name: "24-Olantho-6-nitrodiene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.128 ng/mL
 Acq. Time: 9:48:18 PM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 11-MAR-10 01:12

GEL Data File: EXS03100038.wiff

Instrument ID: LCMSMS

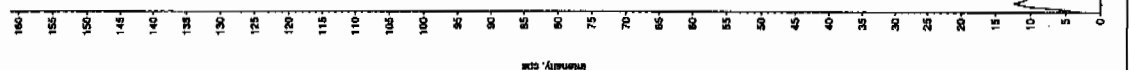
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.104
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

den 3/13/10

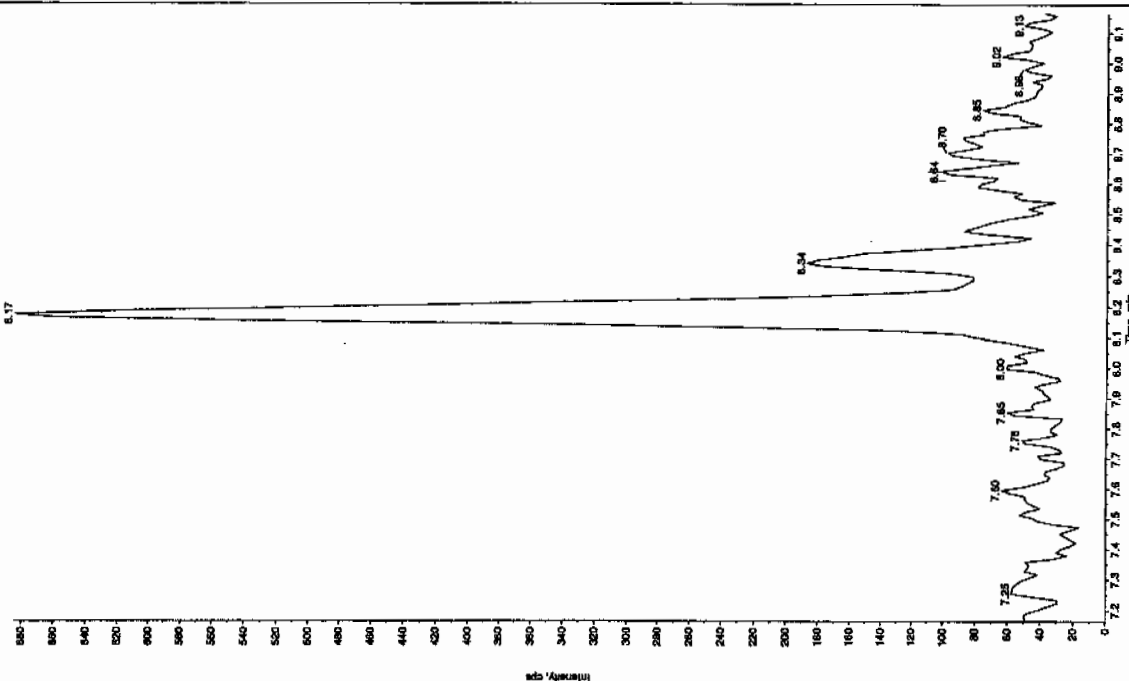
Sample Name: "XBLK05" Sample ID: "111ER" File: "EXS03100038.wiff"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 1:12:29 AM
Modified: No

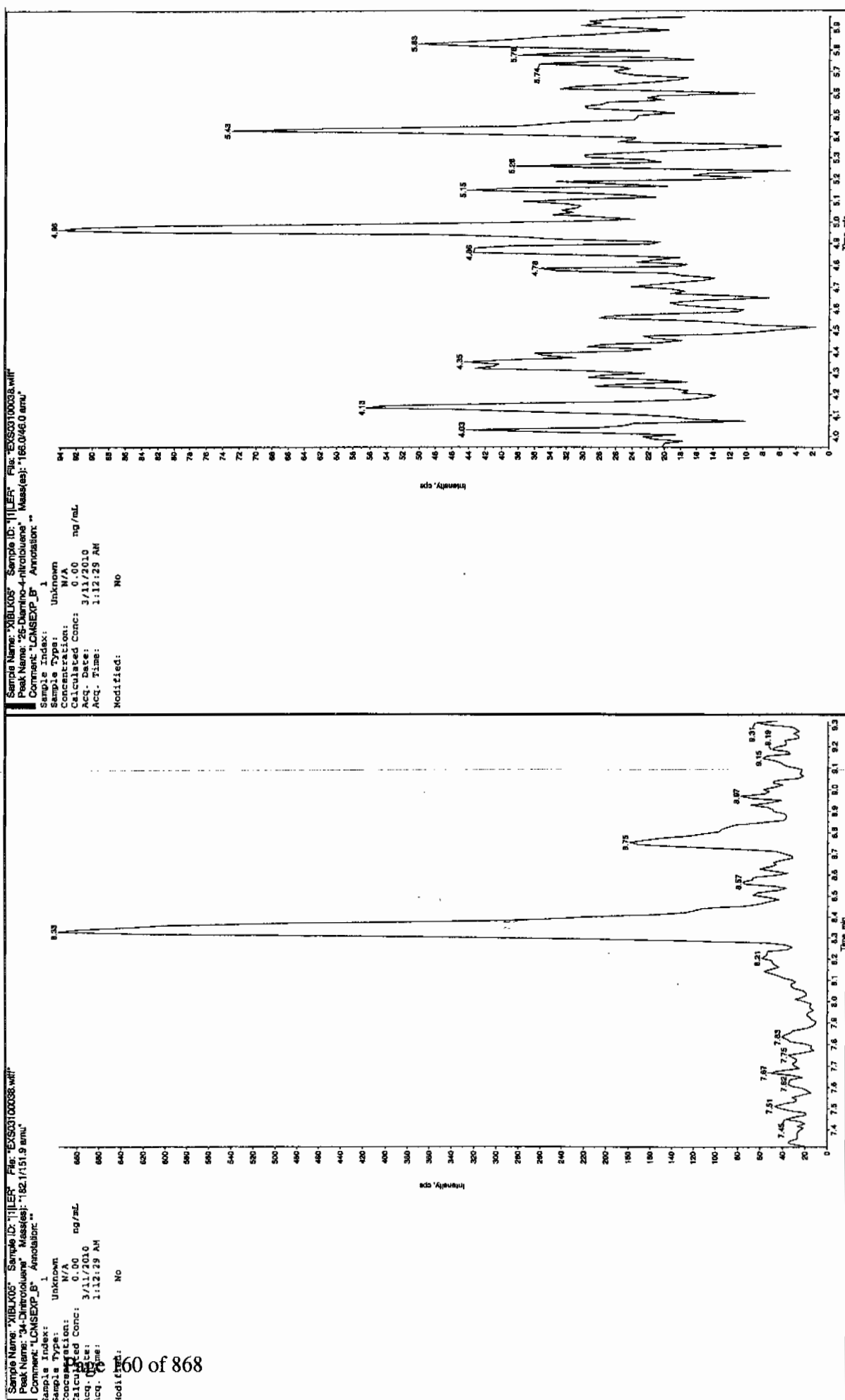


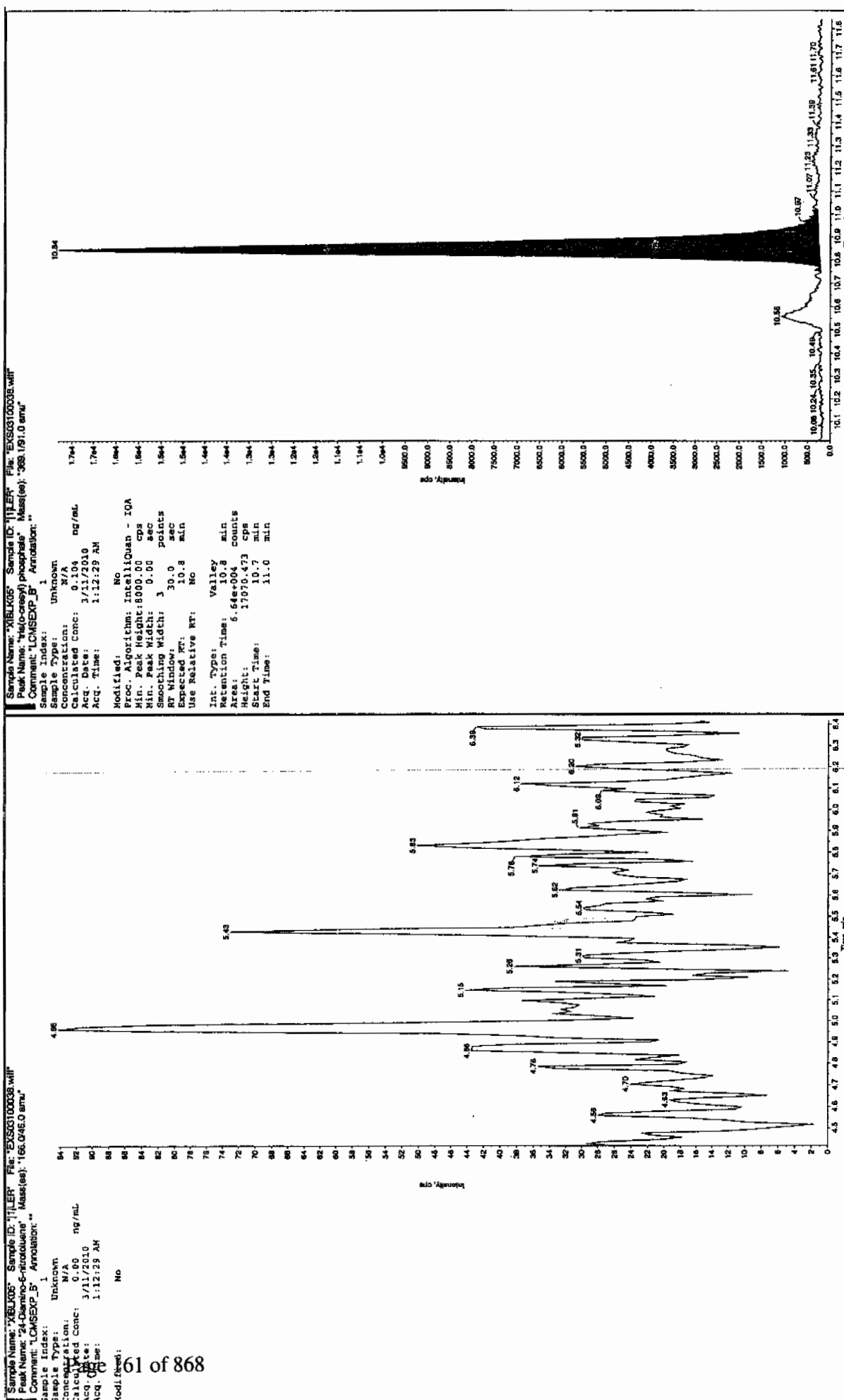
Sample Name: "XBLK05" Sample ID: "111ER" File: "EXS03100038.wiff"
Peak Name: "35-Dinitroendine" Mass(es): "182.046.0 amu"
Comment: "LCMSXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 1:12:29 AM
Modified: No



den 03/13/10





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 11-MAR-10 03:02

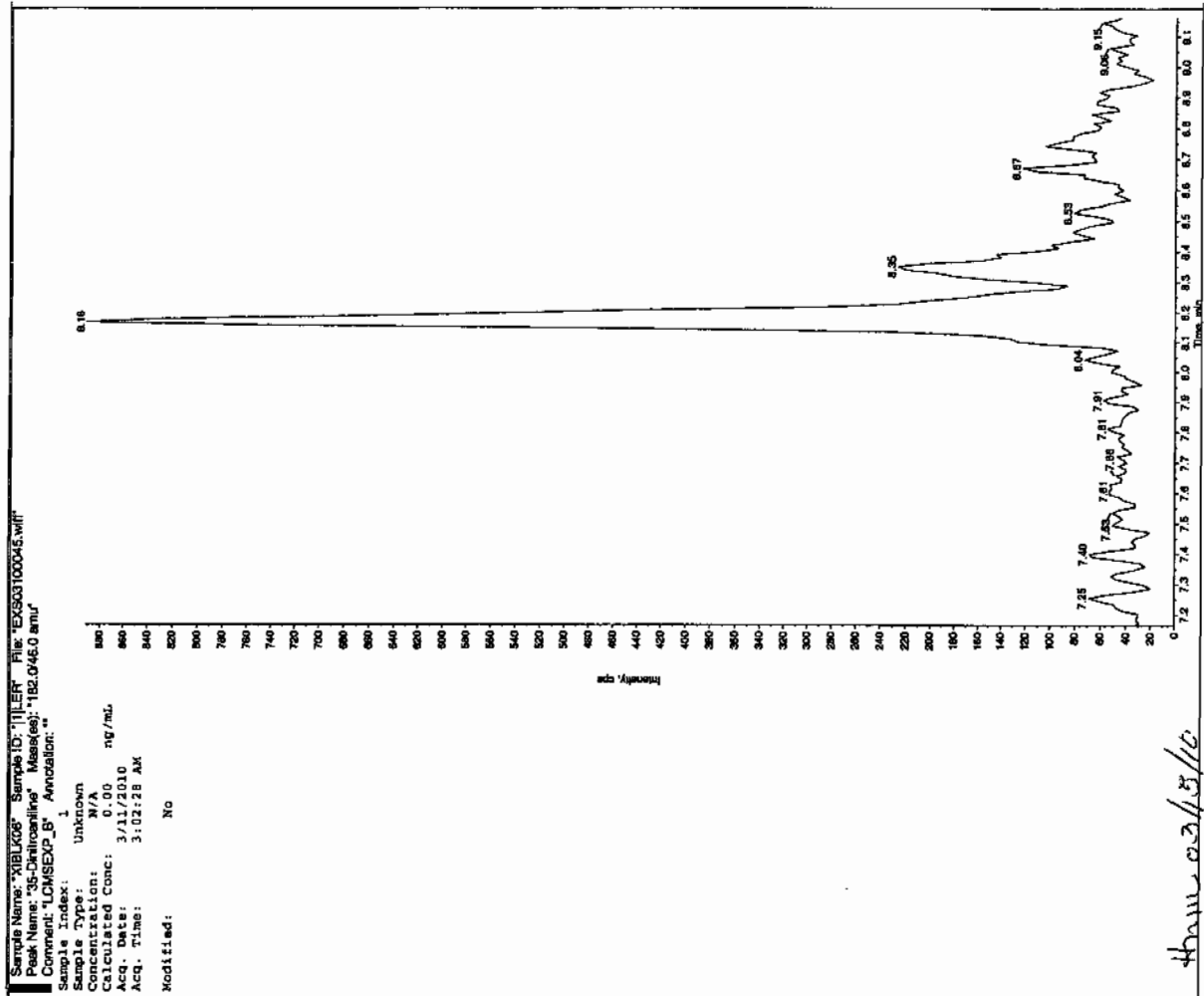
GEL Data File: EXS03100045.wiff

Instrument ID: LCMSMS

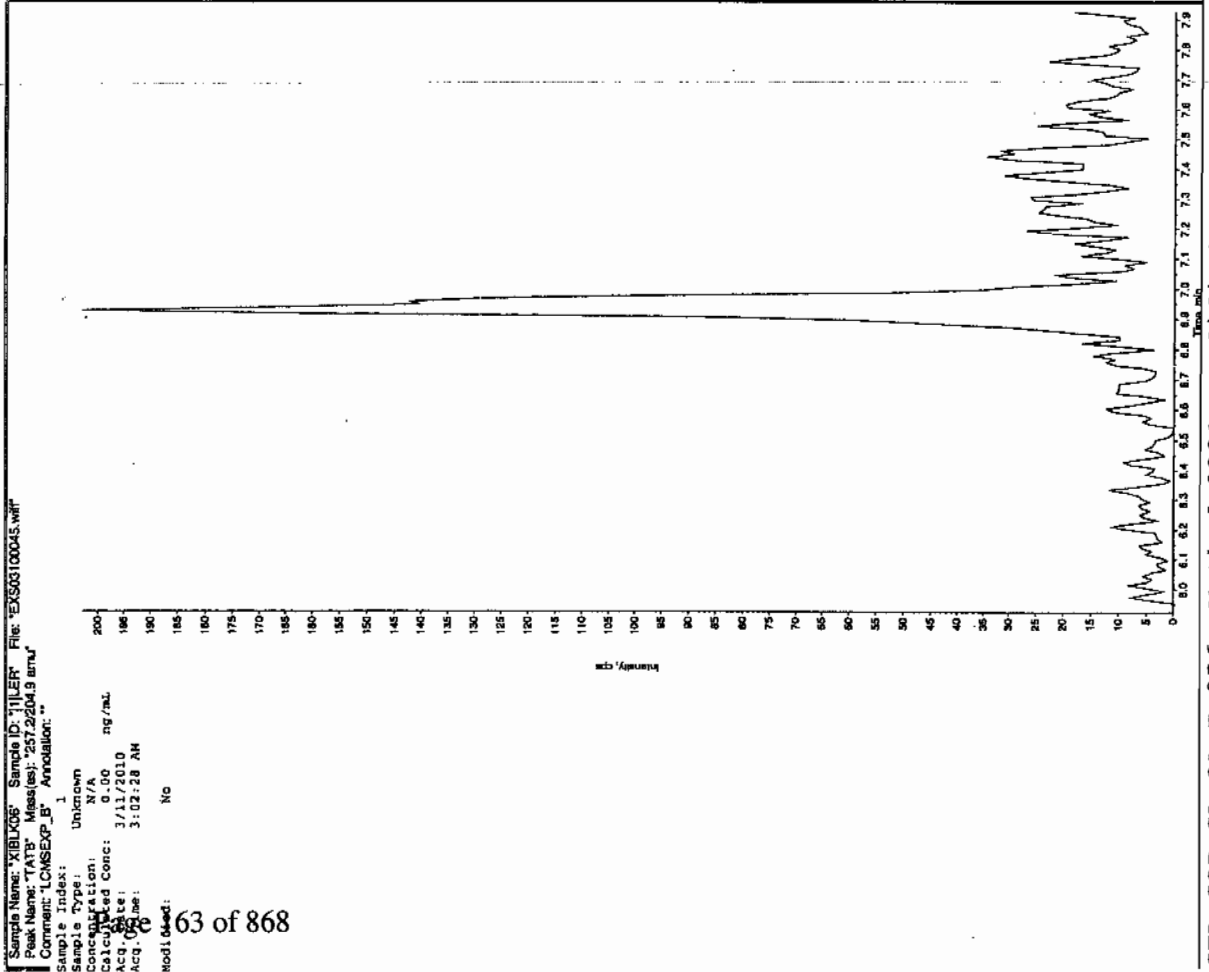
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.271
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

det 3/14/10

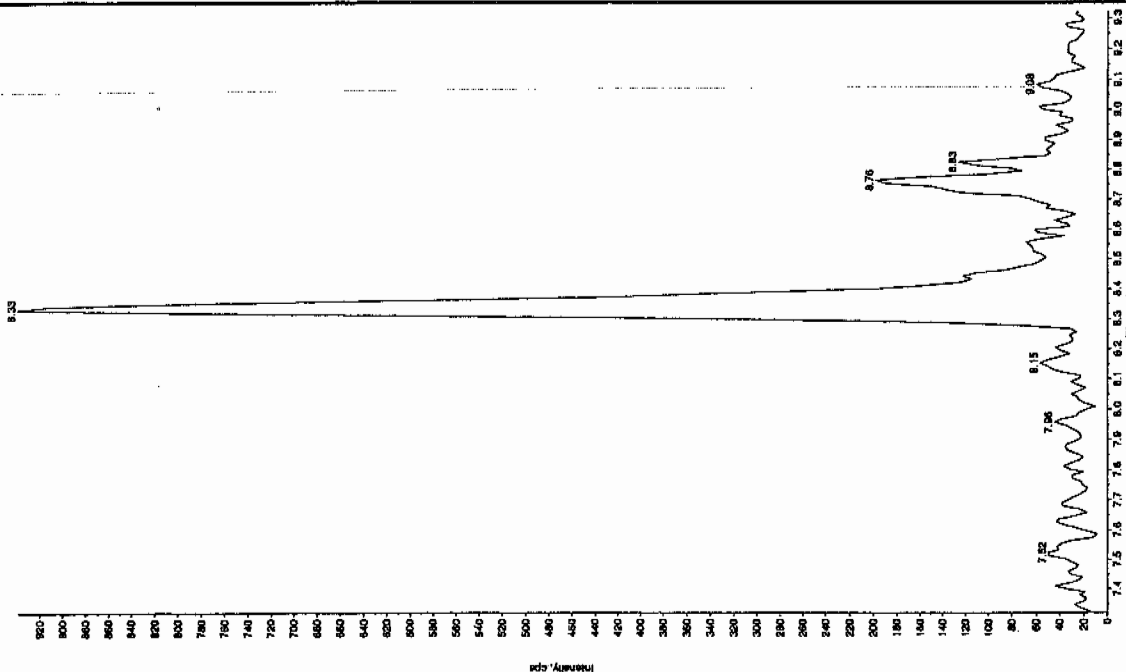


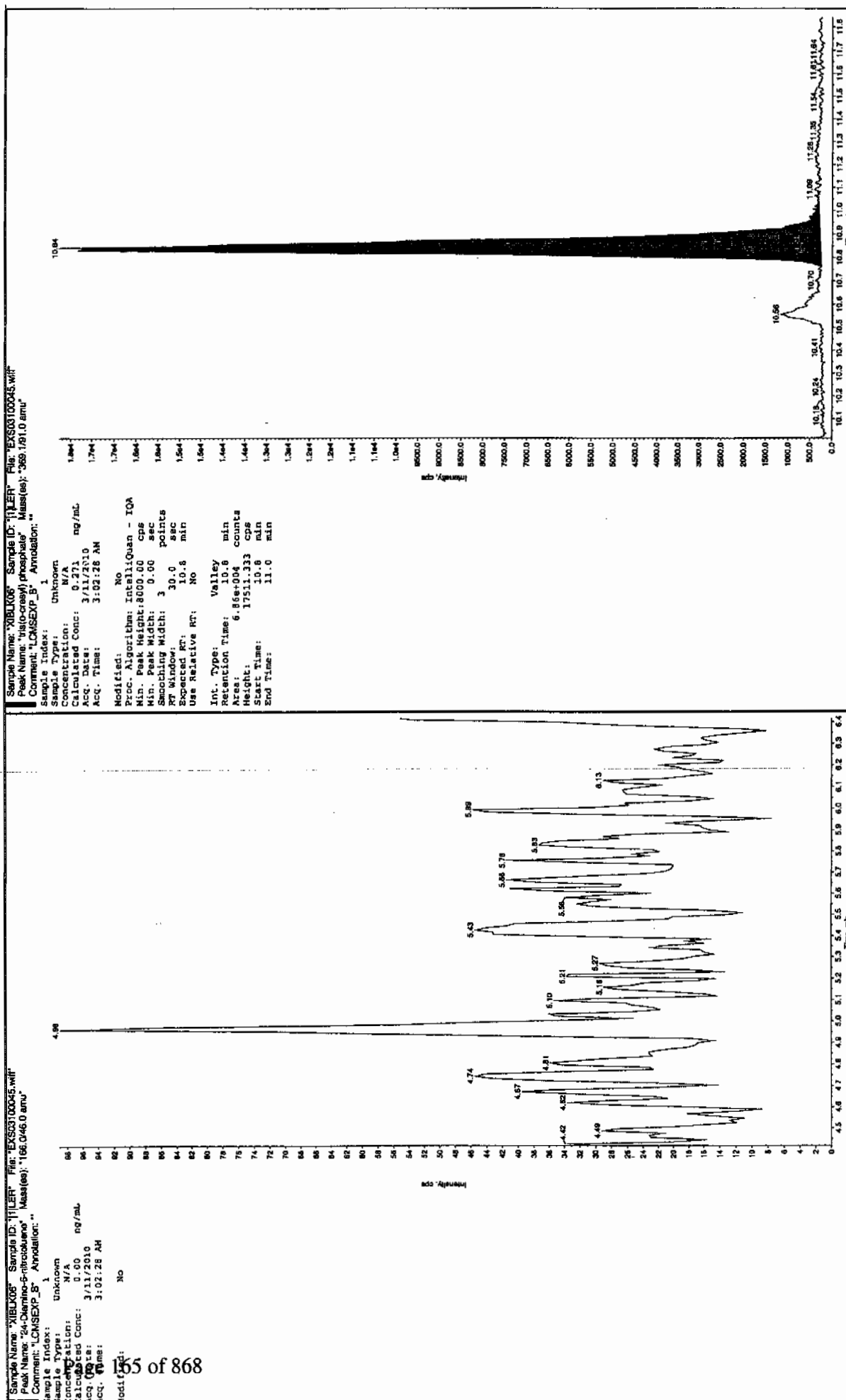
Time 02/15/10



Sample Name: "XIBLK05" Sample ID: "HILLER" File: "EX503100045.will"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:02:28 AM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 11-MAR-10 05:55

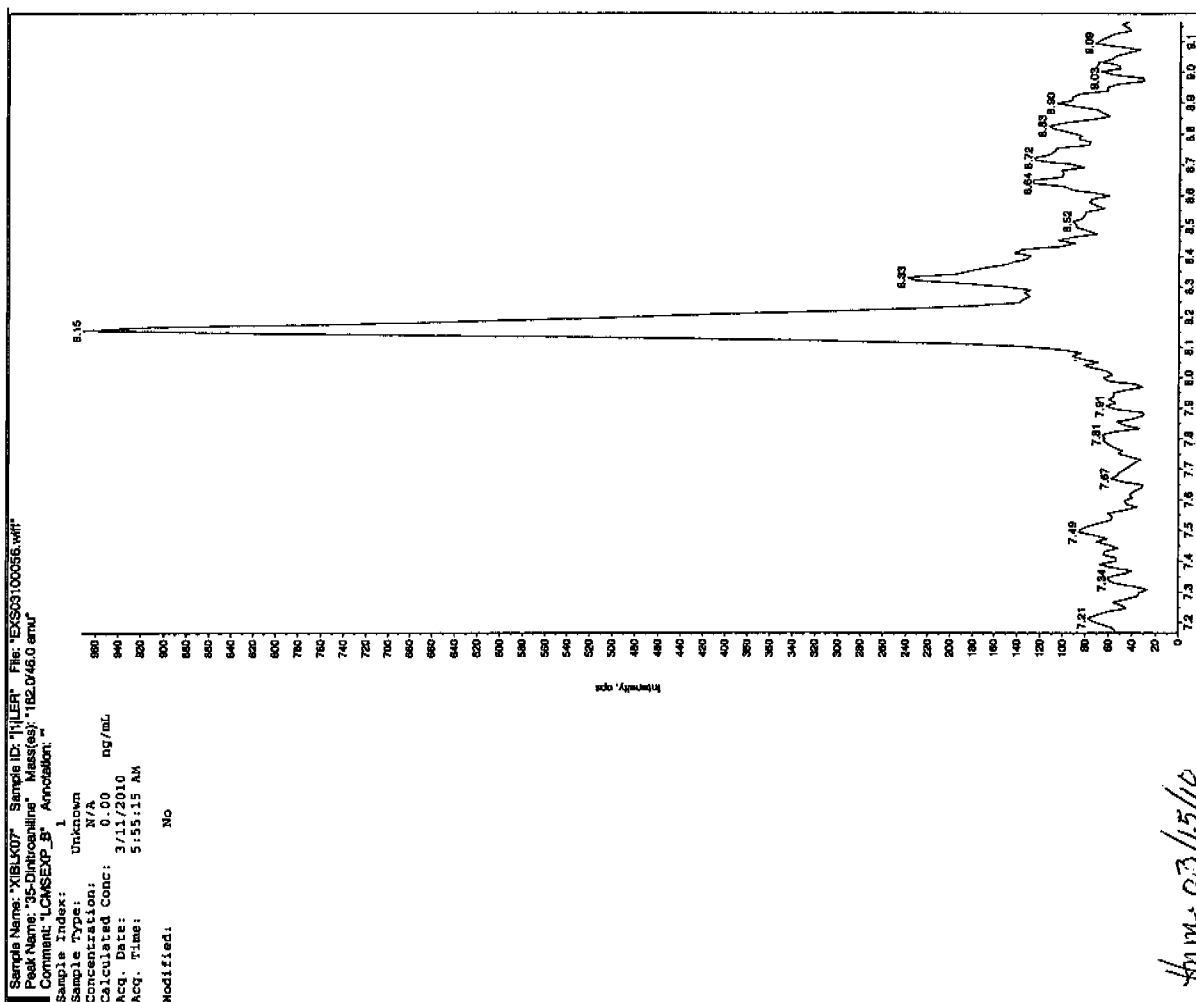
GEL Data File: EXS03100056.wiff

Instrument ID: LCMSMS

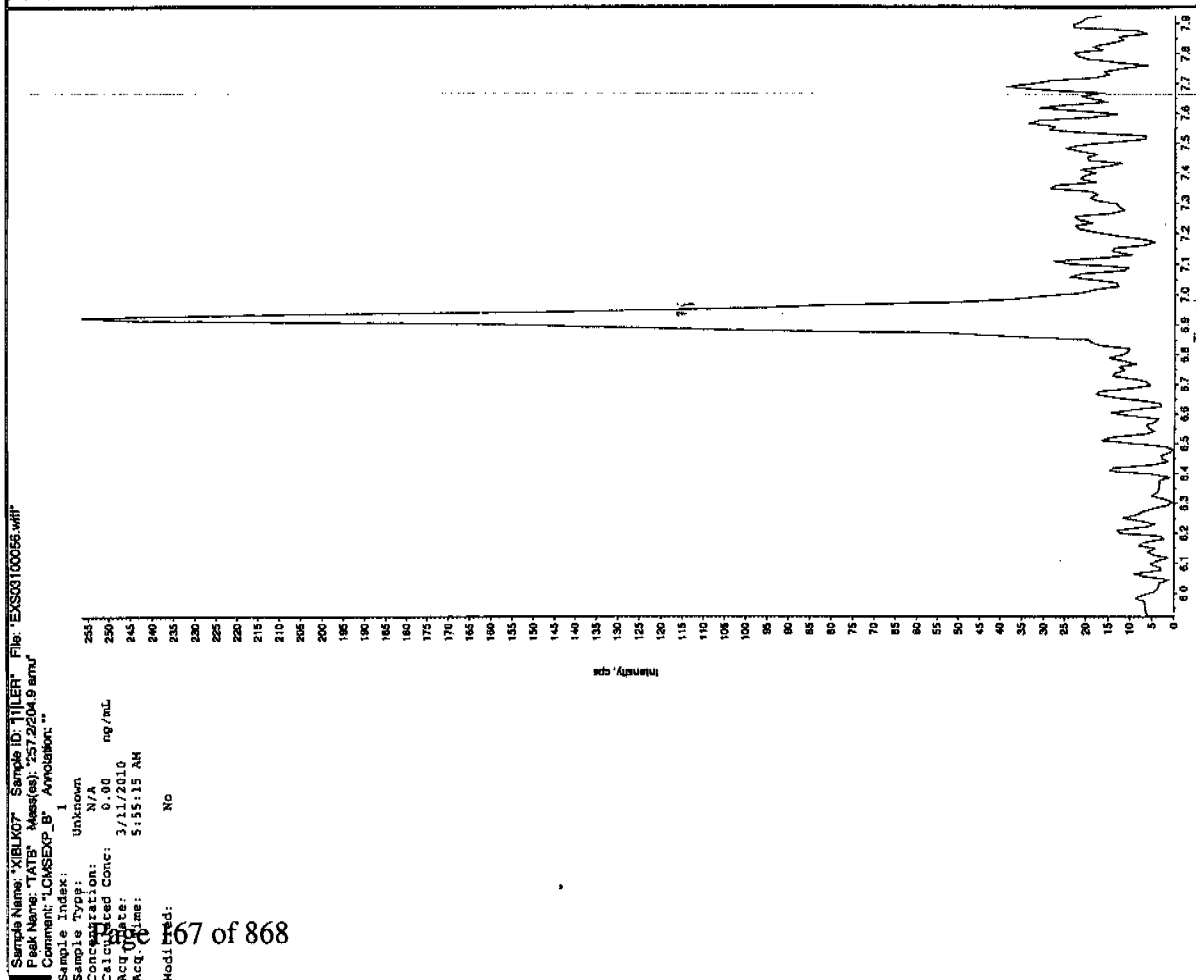
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.586
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/14/10



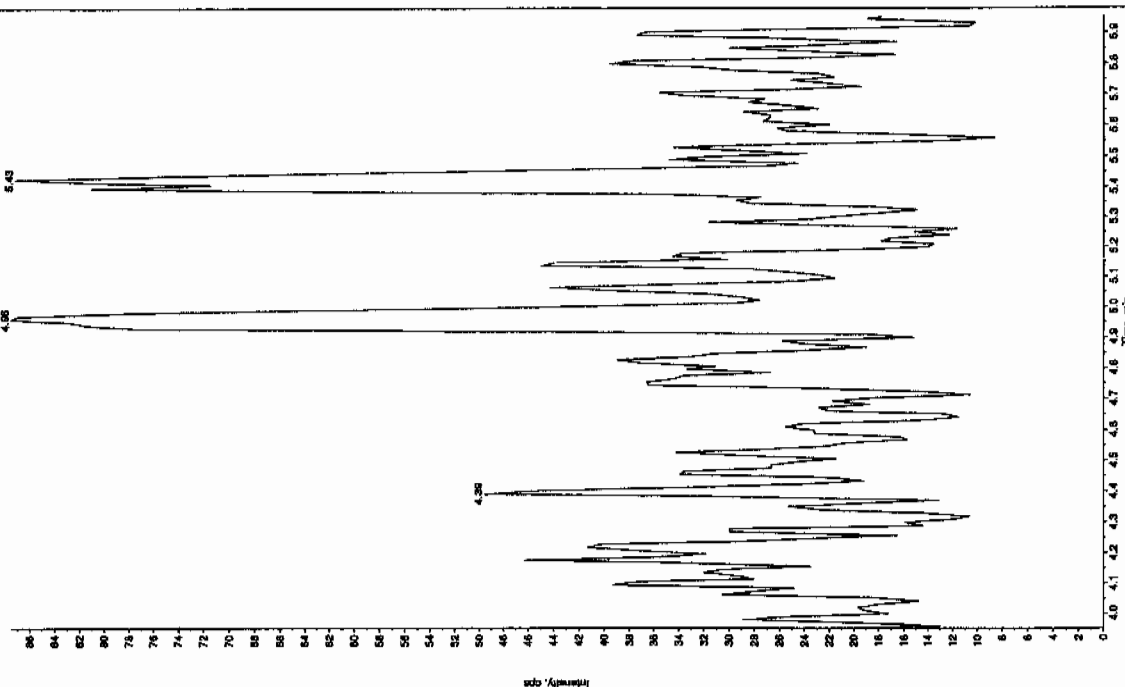
Amc 03/15/10



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

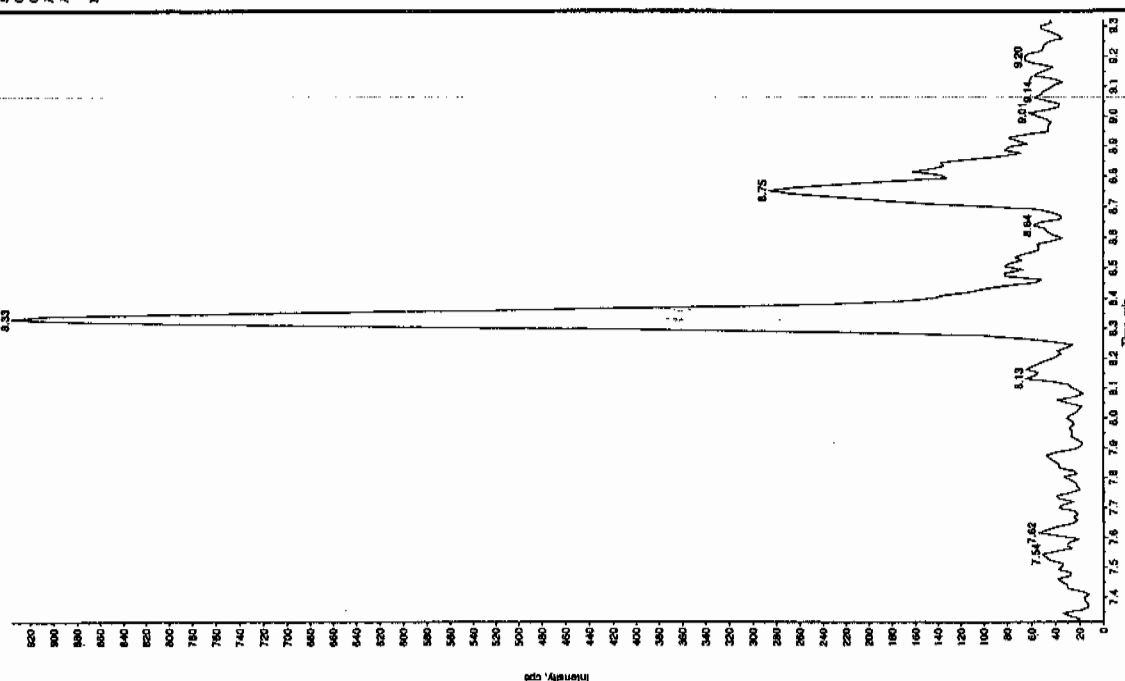
Sample Name: "XBL007" Sample ID: "111ER" File: "EX603100056.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.045.0 amu"
 Comment: "LONEXP_B" Annotation: ""

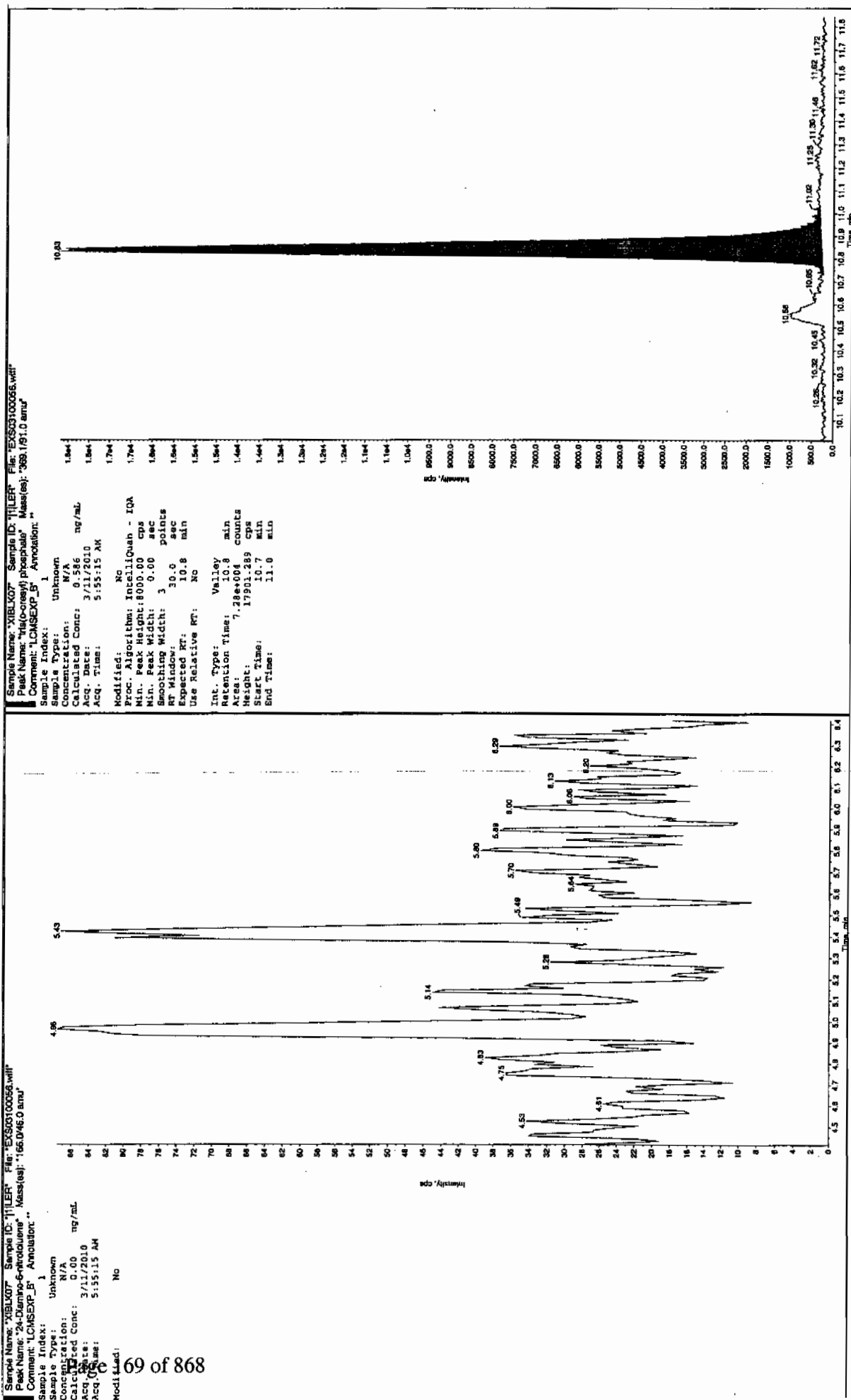
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 5:55:15 AM
 Modified: No



Sample Name: "XBL007" Sample ID: "111ER" File: "EX603100056.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.3 amu"
 Comment: "LONEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 5:55:15 AM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 11-MAR-10 08:48

GEL Data File: EXS03100067.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.418
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/14/10

Sample Name: "XBLK08" Sample ID: "T1LER" File: "EX50310067.wif"

Peak Name: "TAYB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

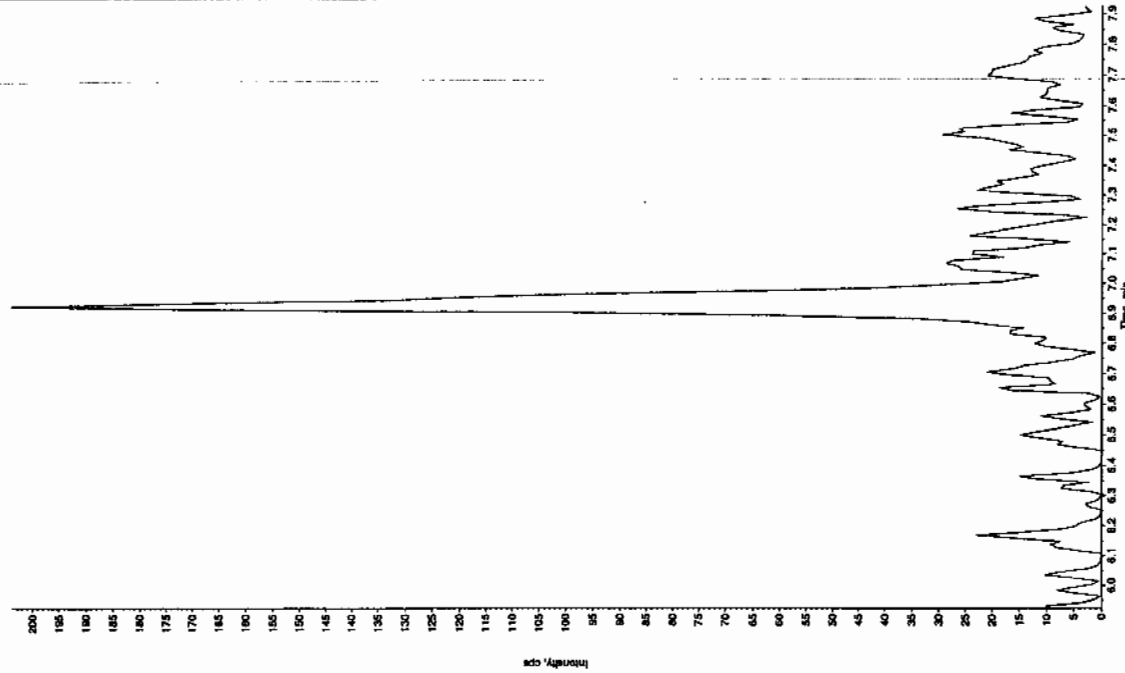
Concentration: 8/0 ng/mL

Calculated Conc: 8/0 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 8:48:02 AM

Modified: No



Sample Name: "XBLK08" Sample ID: "T1LER" File: "EX50310067.wif"

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

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

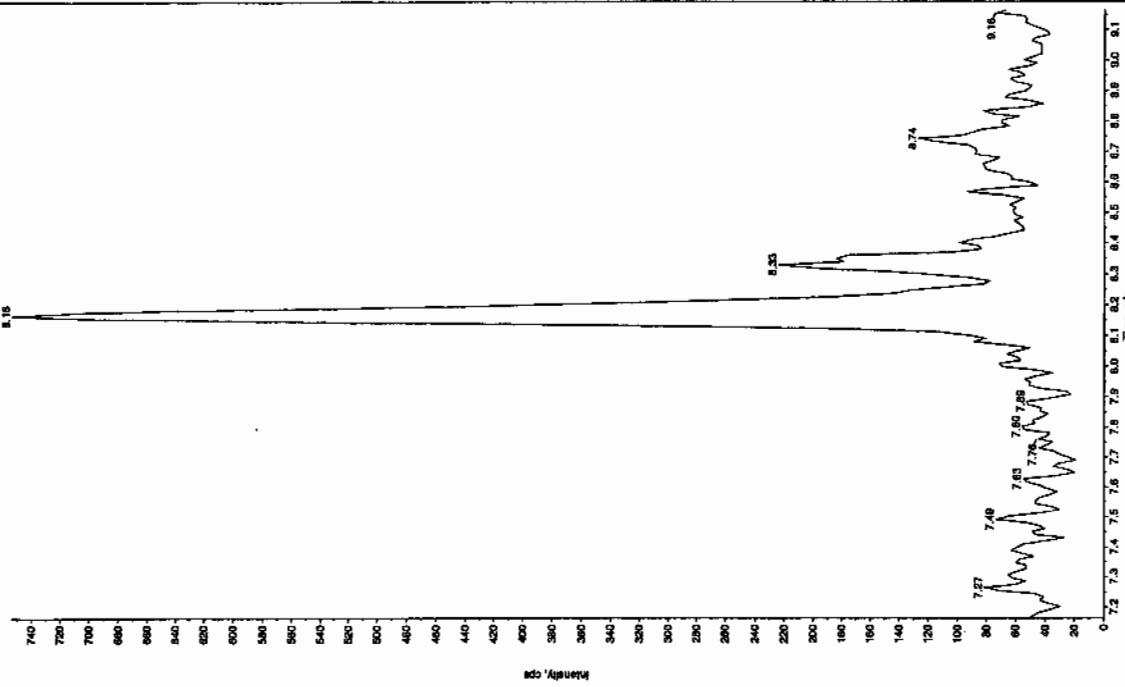
Concentration: 8/0 ng/mL

Calculated Conc: 8/0 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 8:48:02 AM

Modified: No

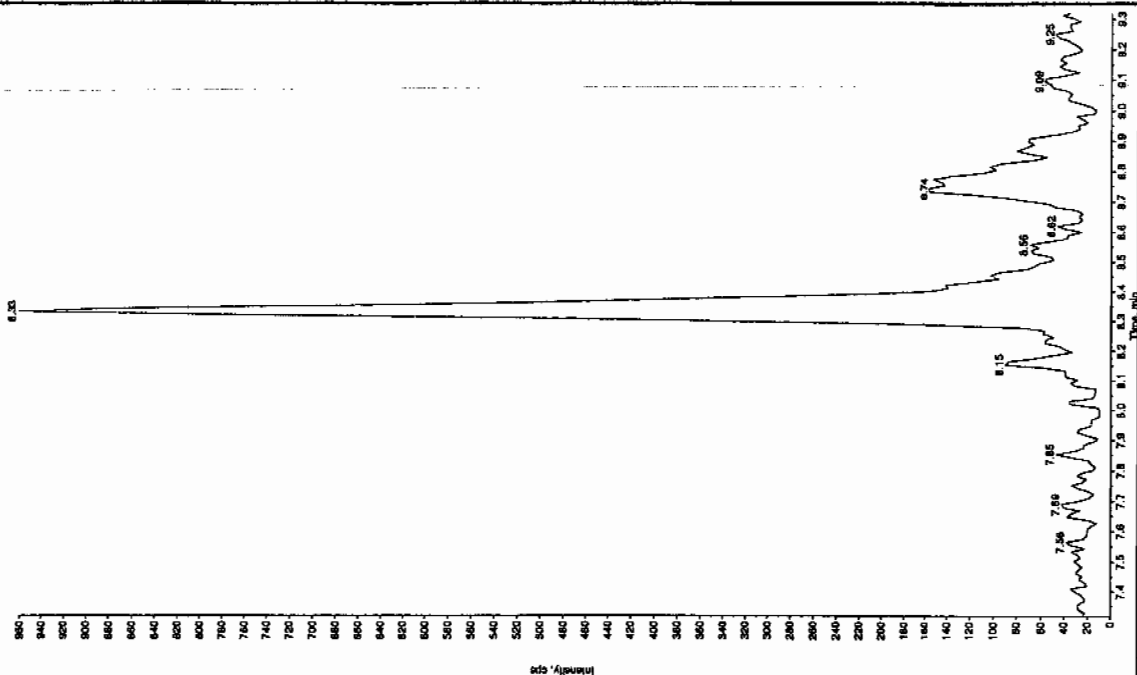


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

for 3/15/10

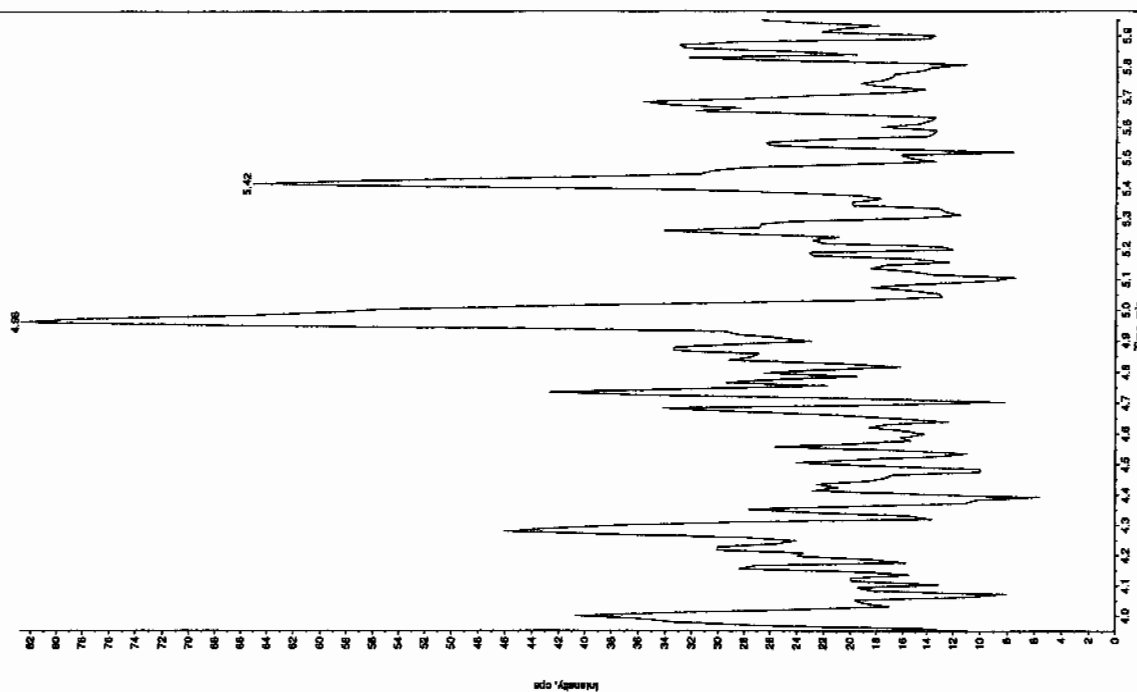
Sample Name: "XBLK08" Sample ID: "11LEP" File: "EX50310067.wif"
 Peak Name: "34-Dinitro-4-hydrobromo" Mass(es): 182.1151.9 amu
 Comment: "LONSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 8:48:02 AM
 Modified: No



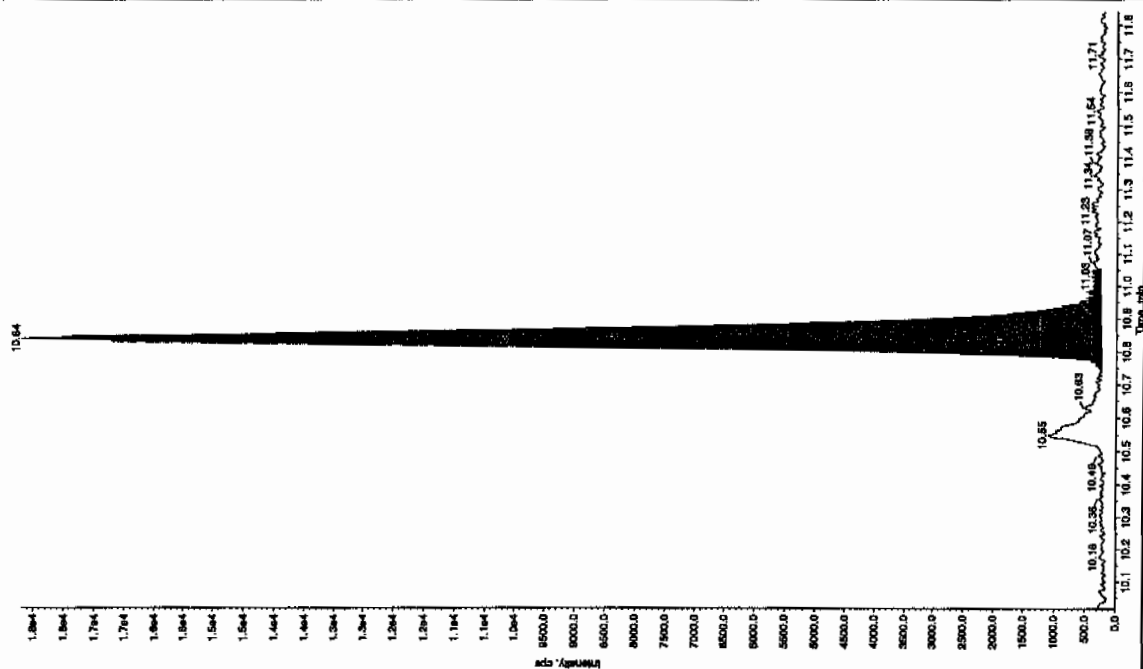
Sample Name: "XBLK08" Sample ID: "11LEP" File: "EX50310067.wif"
 Peak Name: "25-Dinitro-4-hydrobromo" Mass(es): 185.0463.0 amu
 Comment: "LONSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 8:48:02 AM
 Modified: No



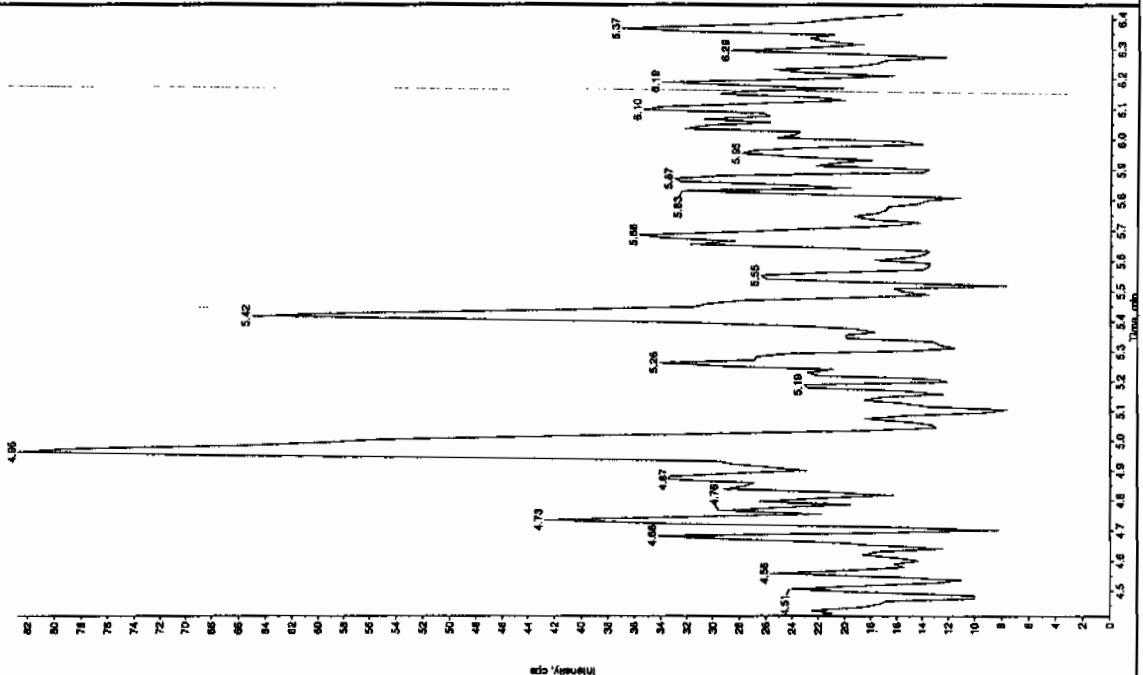
Sample Name: XBLK08 Sample ID: 111ER File: EX503100067.wif
 Peak Name: tri(n-butyl) phosphate Mass(es): 389.1913 amu
 Comment: LCMSXP_B_Artificial

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.418 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 8:48:02 AM
 Acq. Time: 8:48:02 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 7.06e+004 counts
 Height: 17952.213 cps
 Start Time: 10.7 min
 End Time: 11.1 min



Sample Name: XBLK08 Sample ID: 111ER File: EX503100067.wif
 Peak Name: 24-Chloro-6-nitrofluorene Mass(es): 389.0460 amu
 Comment: LCMSXP_B_Artificial

Sample Index: 1
 Sample Type: Unknown
 Concentration: K/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 8:48:02 AM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 11-MAR-10 12:12

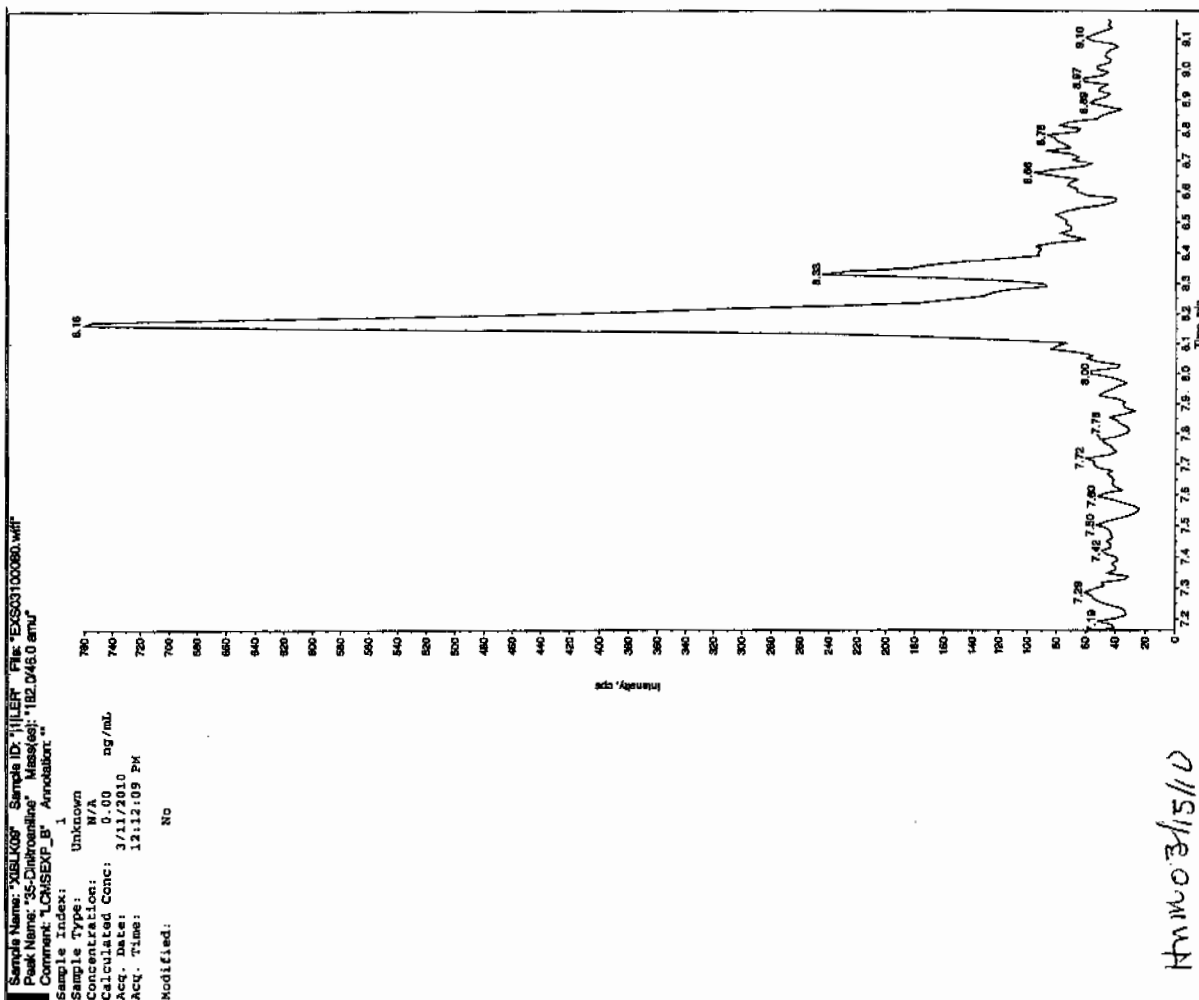
GEL Data File: EXS03100080.wiff

Instrument ID: LCMSMS

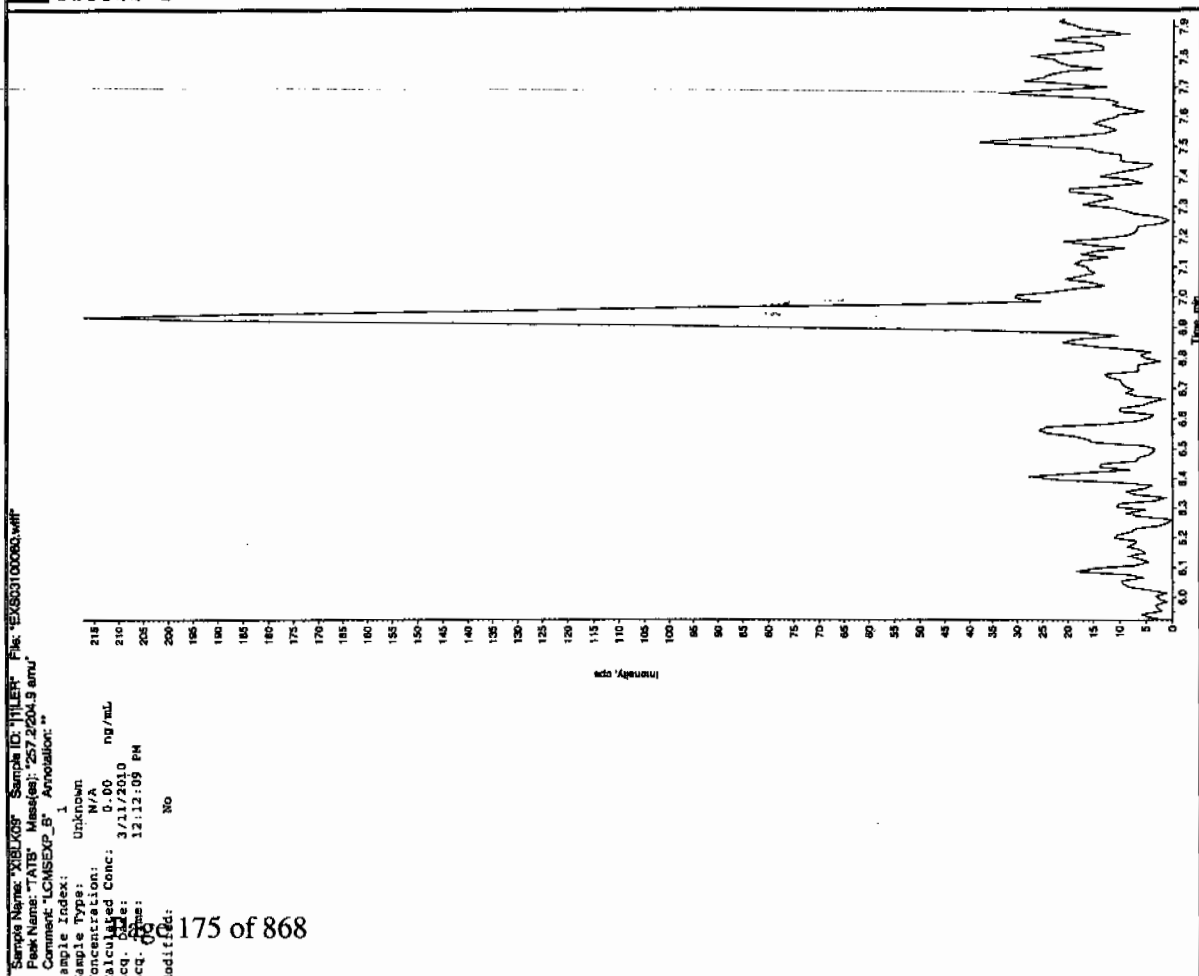
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.467
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

det 3/14/10



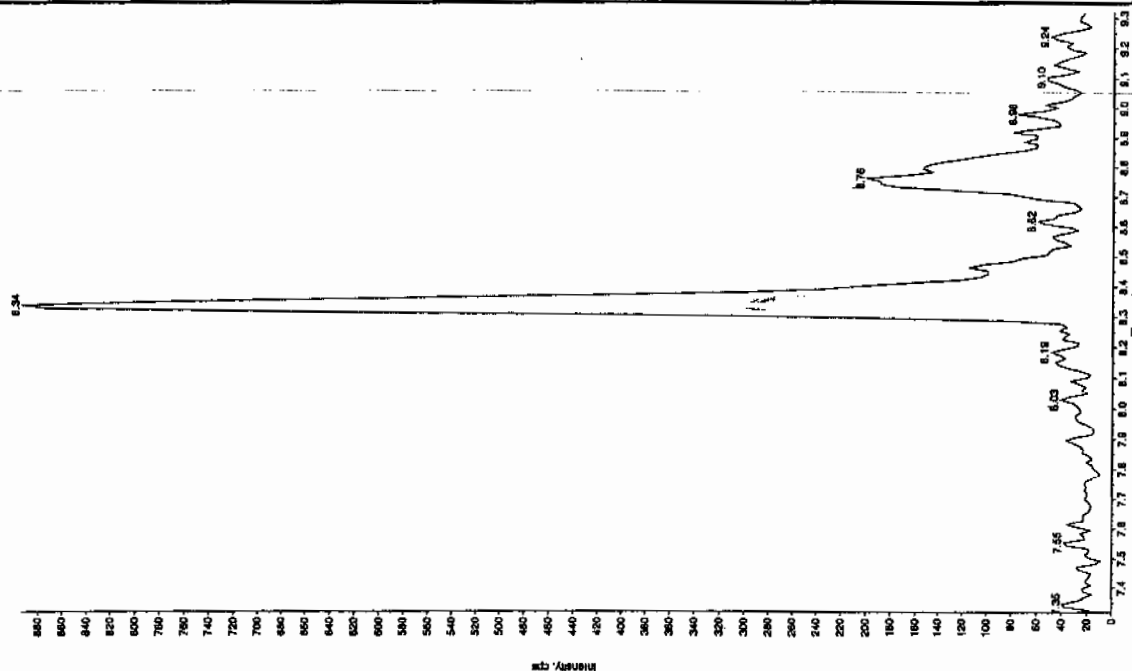
HWMO 3/15/10



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

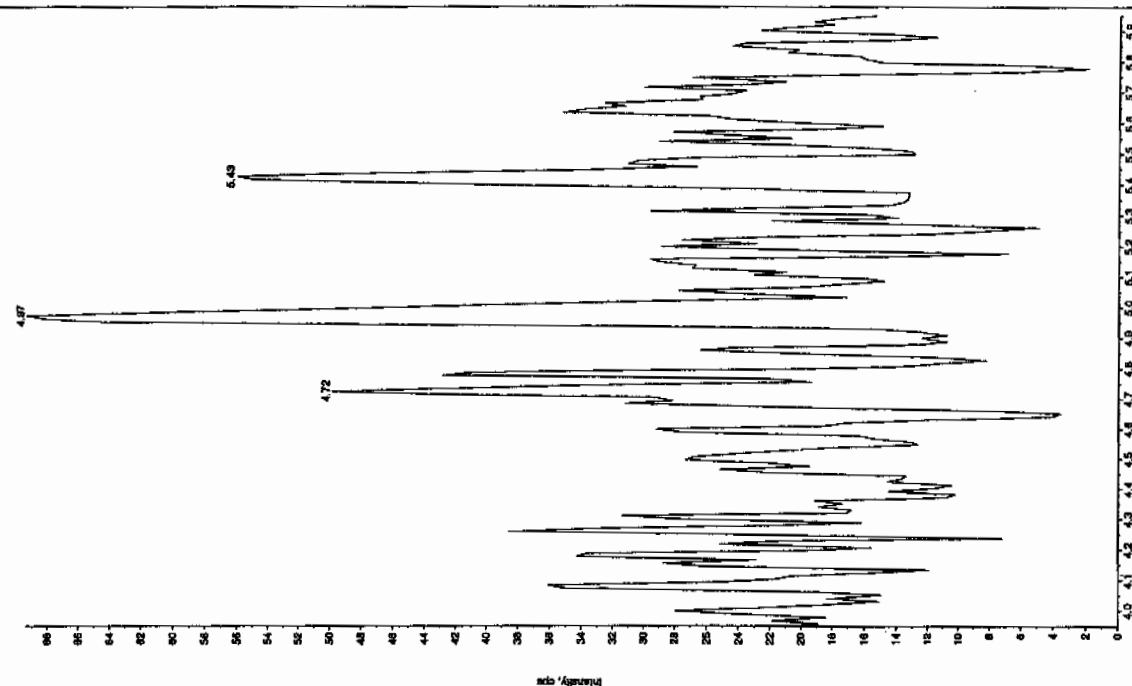
Sample Name: "XIBLK05" Sample ID: "HILLY" File: "EX503100080.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

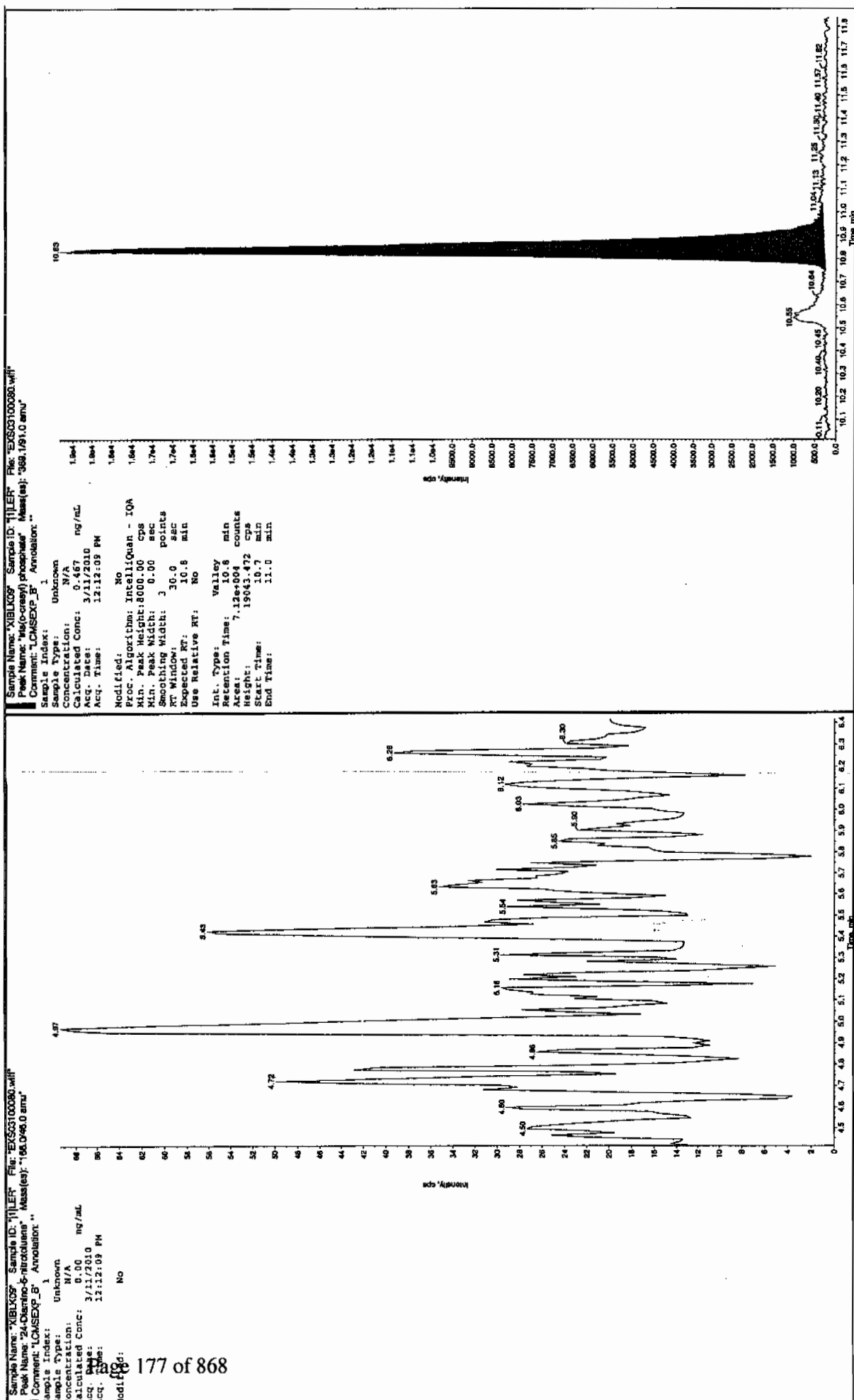
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:12:09 PM
 Modified: No



Sample Name: "XIBLK05" Sample ID: "HILLY" File: "EX503100080.wif"
 Peak Name: "26-Olantho-4-nitrobenzene" Mass(es): "166.048.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:12:09 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 11-MAR-10 15:36

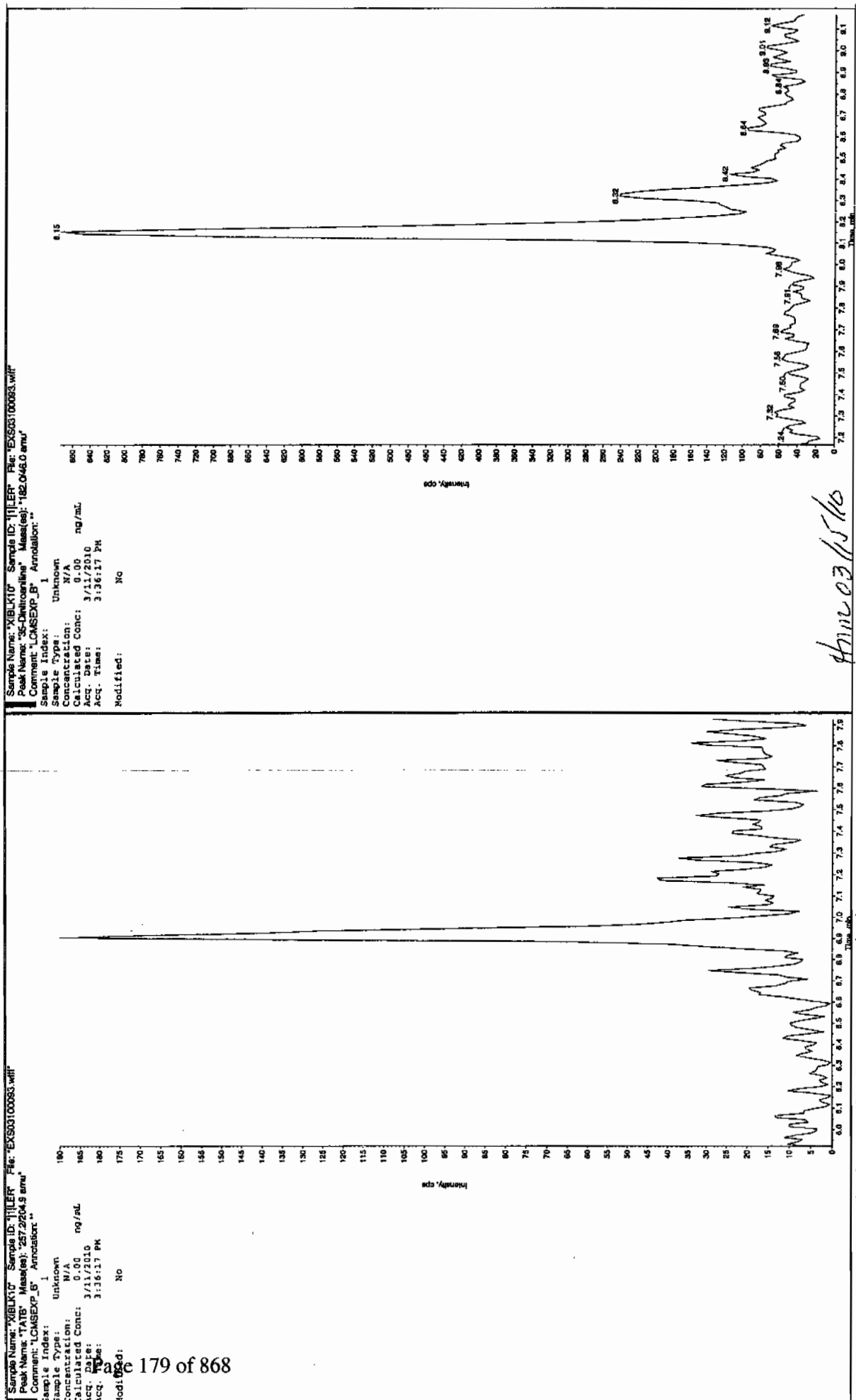
GEL Data File: EXS03100093.wiff

Instrument ID: LCMSMS

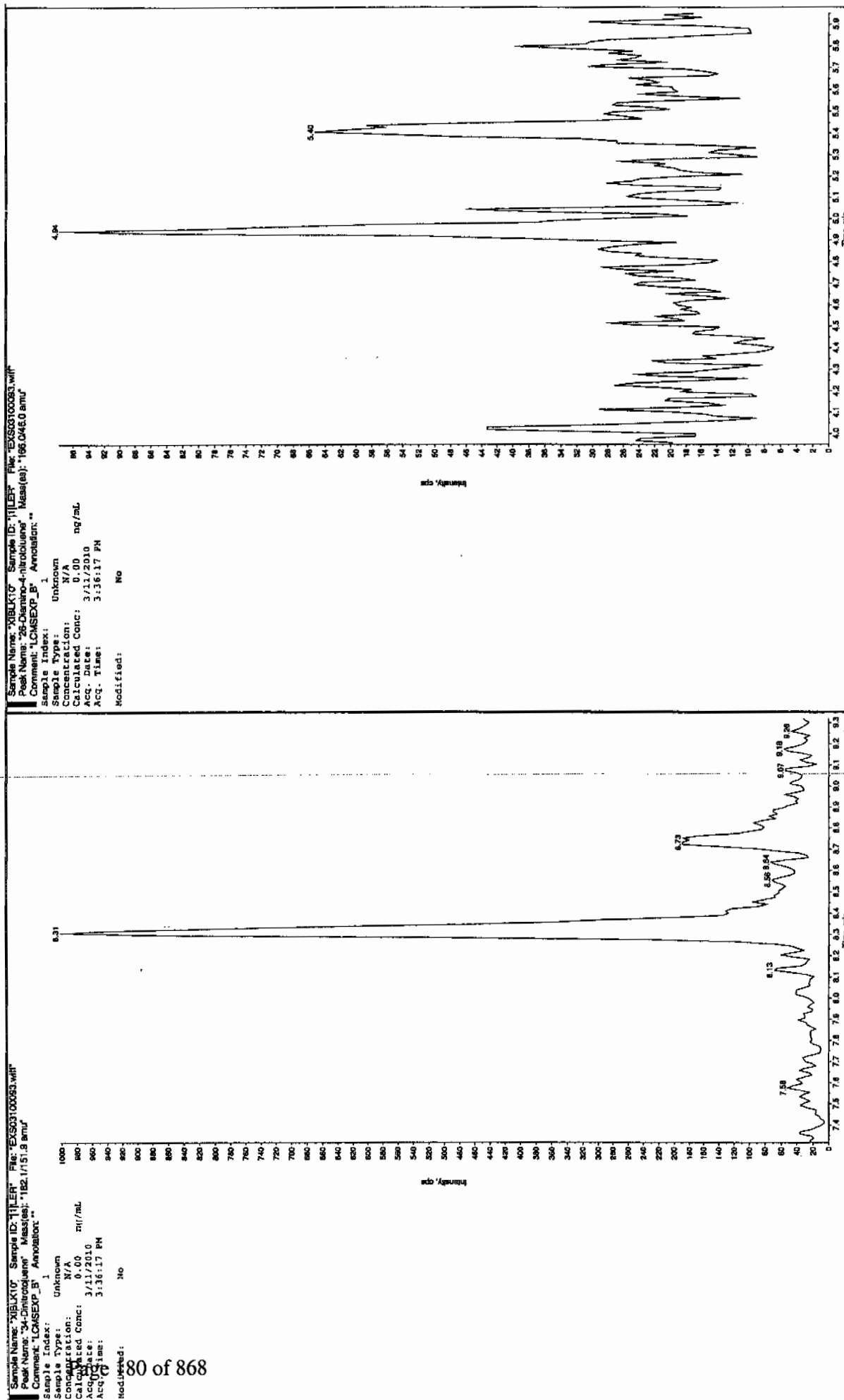
Column: Phenomenex Ultracarb 5u ODS(20)

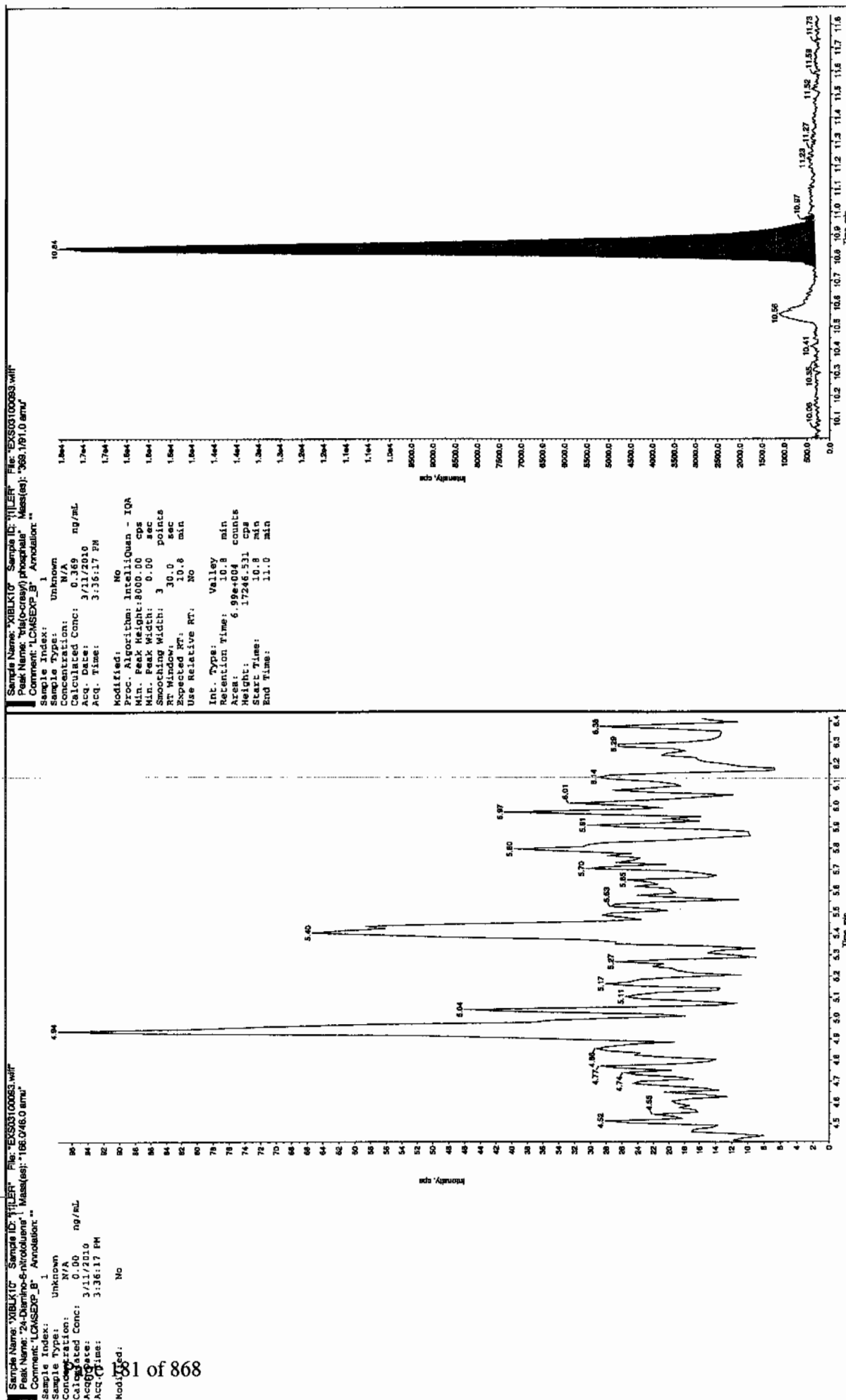
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.369
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/14/10



for 03/15/10





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1864

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 11-MAR-10 18:28

GEL Data File: EXS03100104.wiff

Instrument ID: LCMSMS

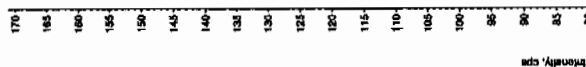
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.433
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/14/10

Sample Name: "XIBLK11" Sample ID: "111111" File: "EX503100104.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

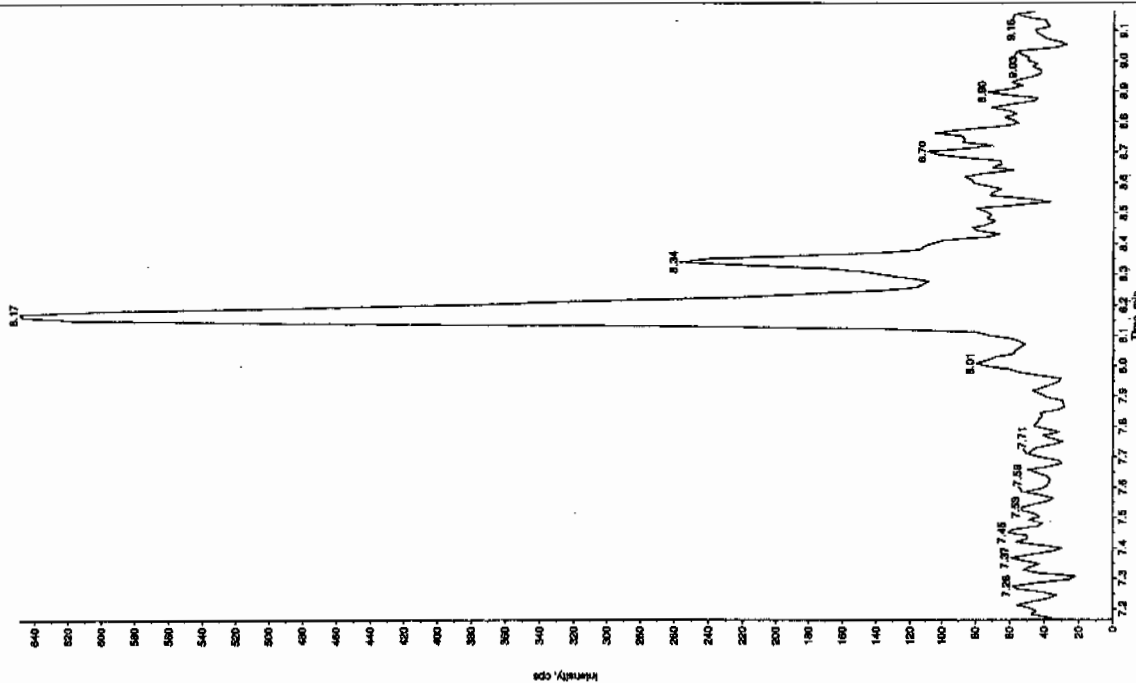
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 6:28:58 PM
 Acq. Time: 6:28:58 PM
 Modified: No



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Sample Name: "XIBLK11" Sample ID: "111111" File: "EX503100104.will"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

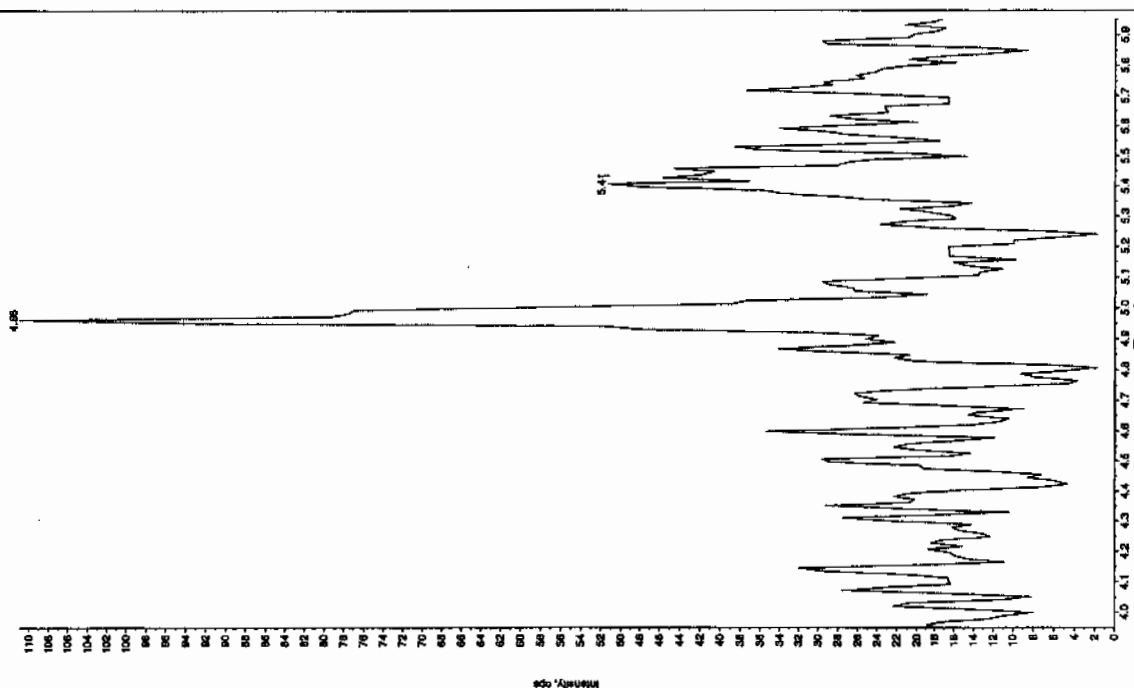
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 6:28:58 PM
 Acq. Time: 6:28:58 PM
 Modified: No



Jan 3/14/10

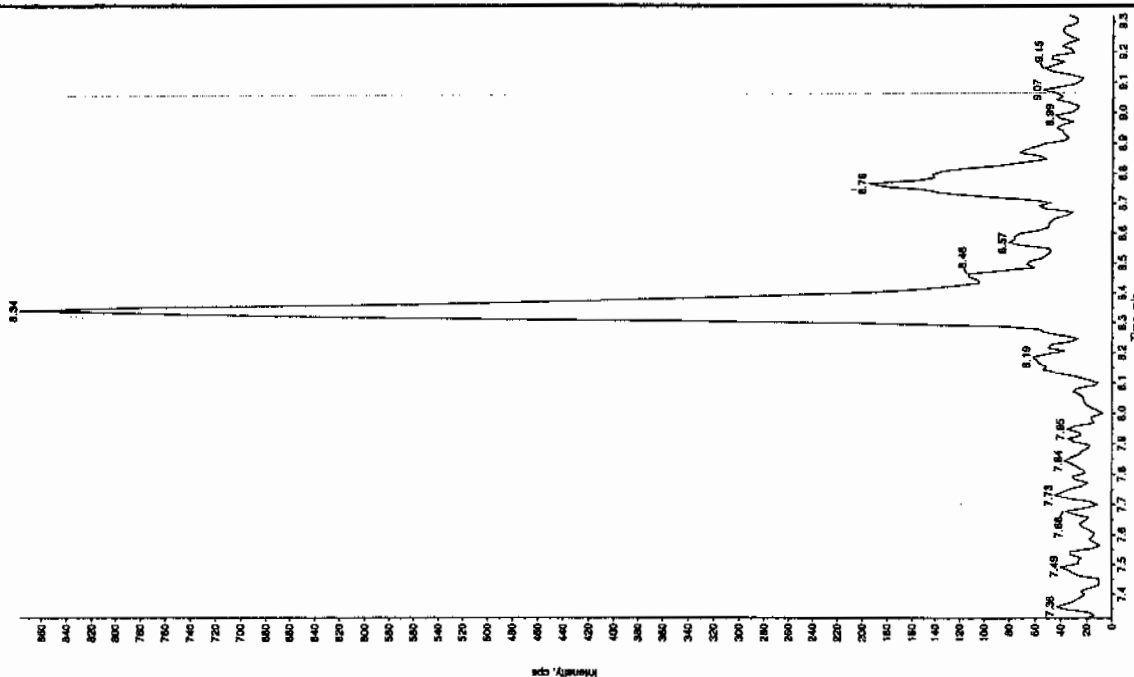
Sample Name: 'XBLK11' Sample ID: '11LER' File: 'EX503100104.wif'
 Peak Name: '28-Diamino-4-nitrofluorene' Mass(es): '166.0460 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:28:58 PM
 Modified: No

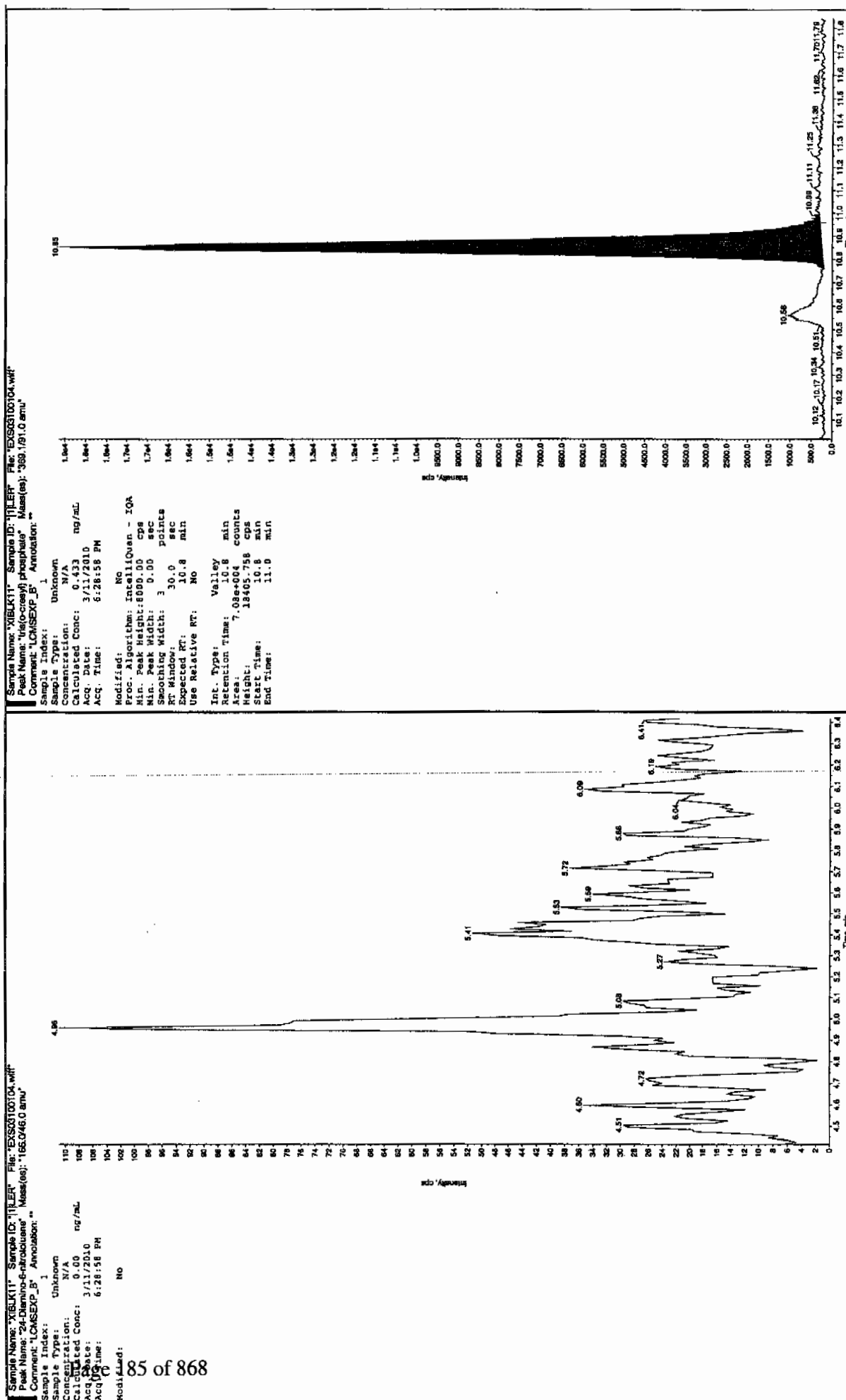


Sample Name: 'XBLK11' Sample ID: '11LER' File: 'EX503100104.wif'
 Peak Name: '34-Chlorobutanol' Mass(es): '182.1715 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:28:58 PM
 Modified: No



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



Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H₂O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

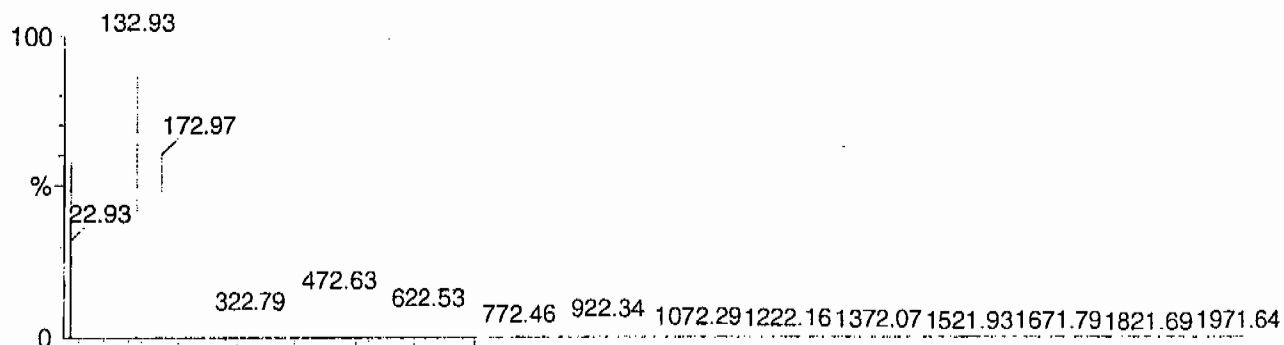
Calibration Report - MS1 Static

Page 1 of 1

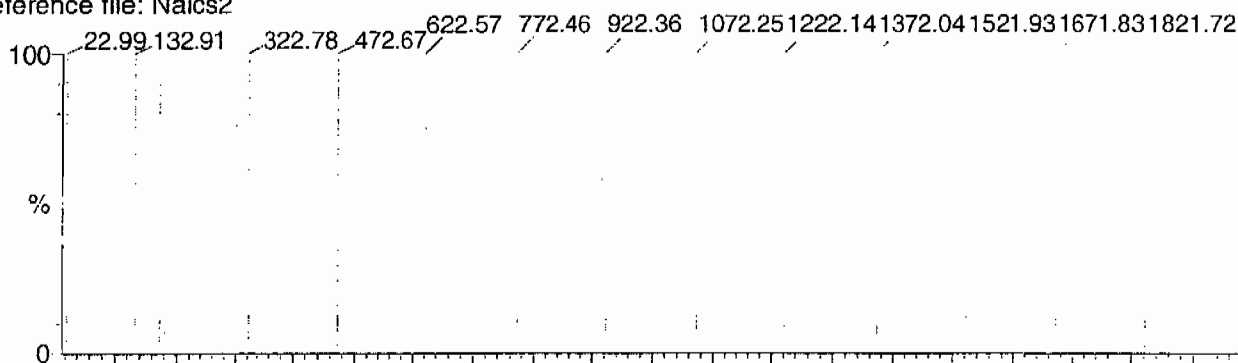
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

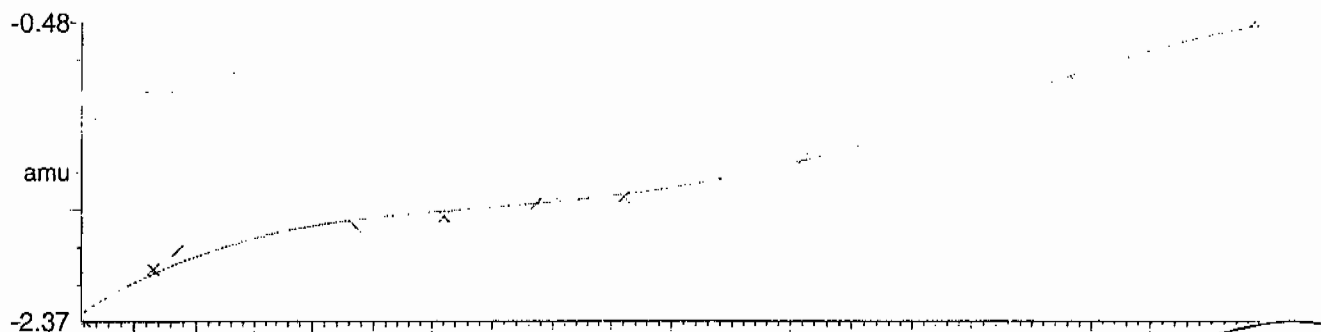
15 matches of 15 tested references



Reference file: Naics2

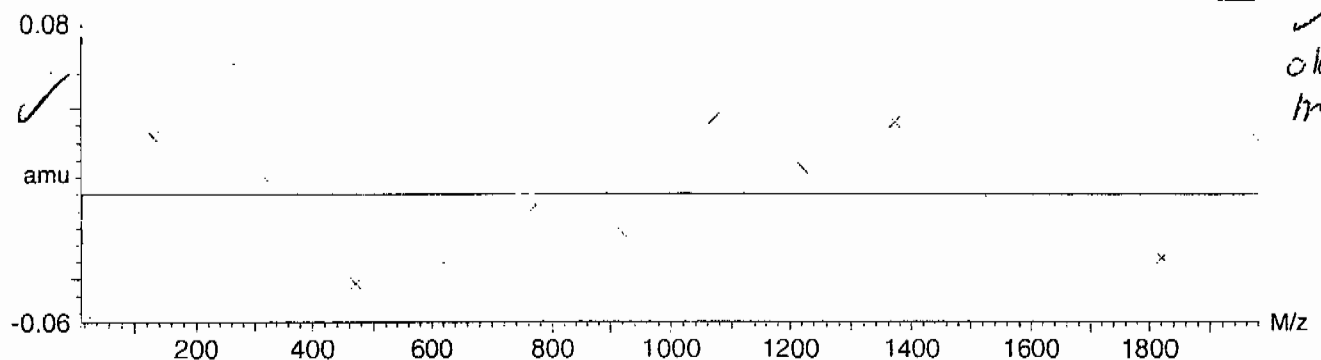


Mass difference (Raw - Ref mass)



Residuals

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



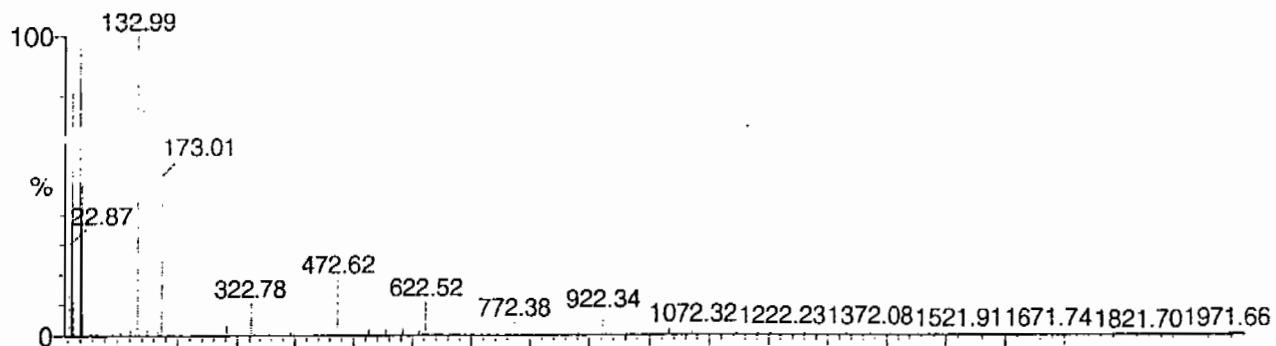
Calibration Report - MS1 Scanning

Page 1 of 1

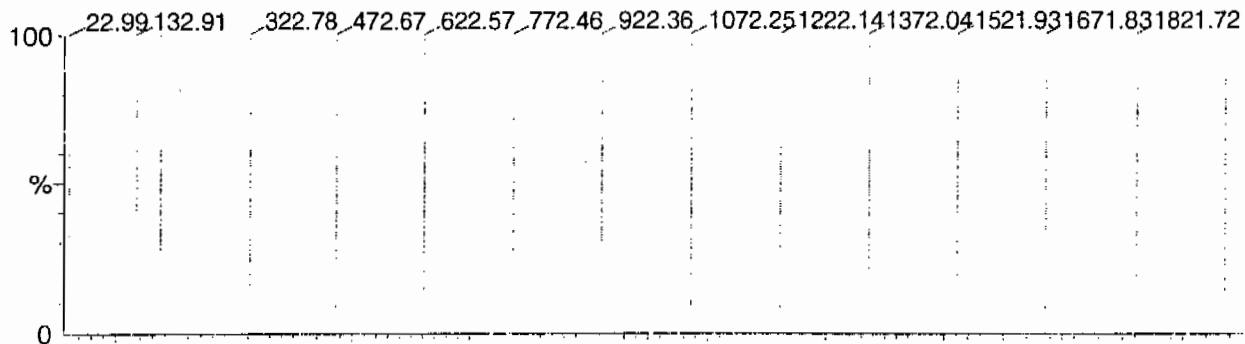
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

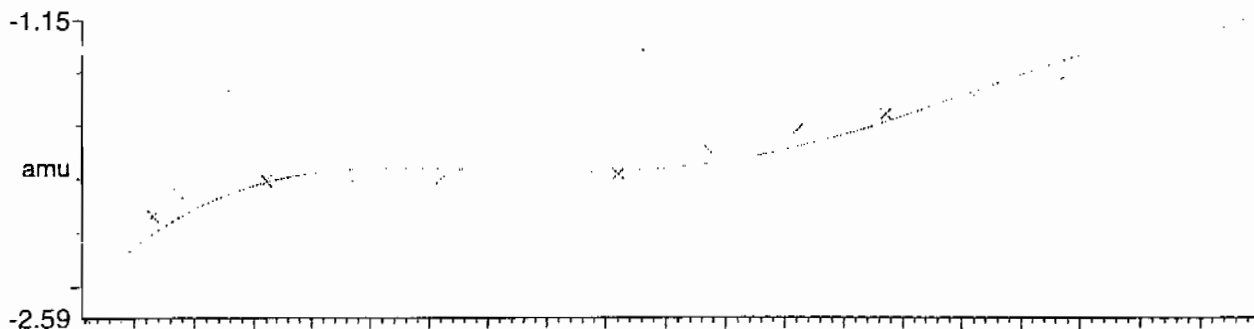
15 matches of 15 tested references



Reference file: Naics2

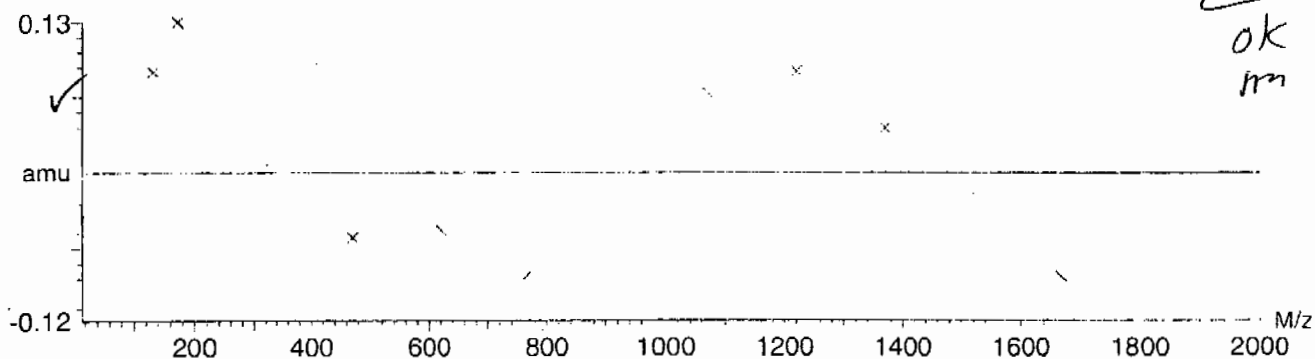


Mass difference (Raw - Ref mass)



Residuals

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



ok
m

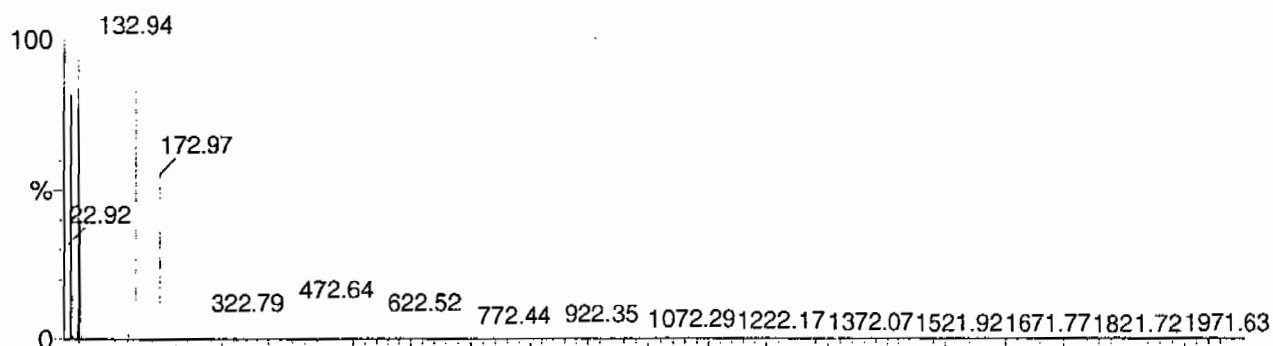
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

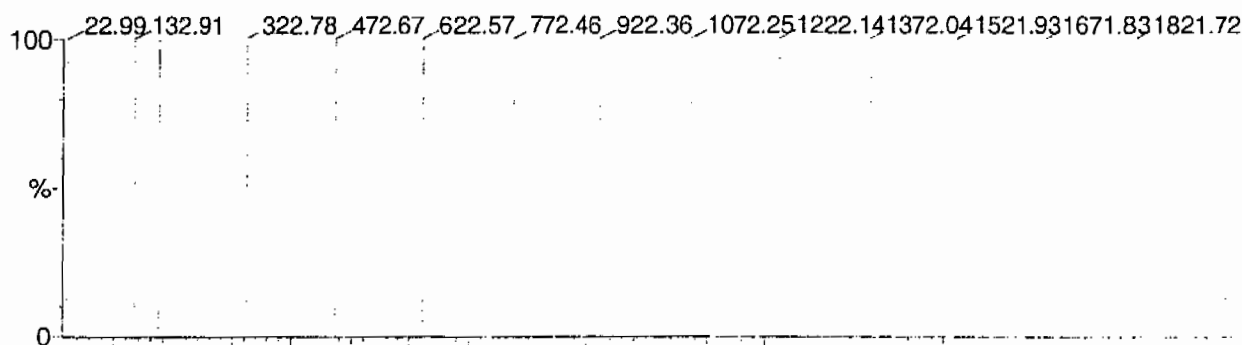
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

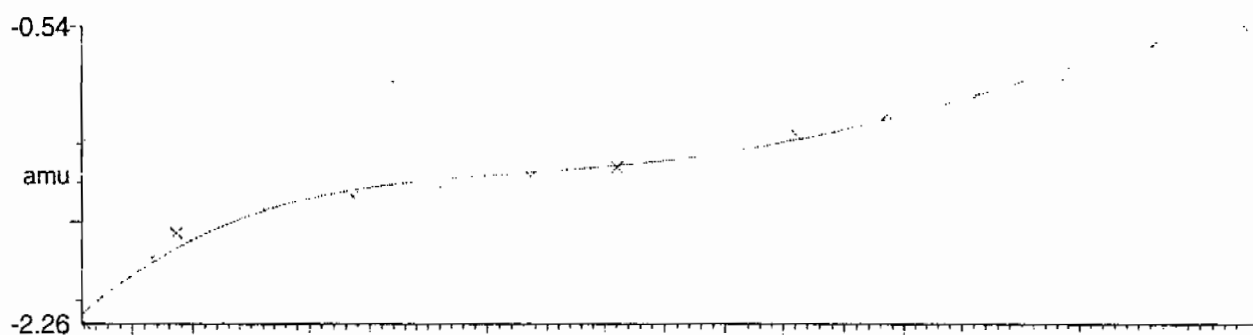
15 matches of 15 tested references



Reference file: Naics2

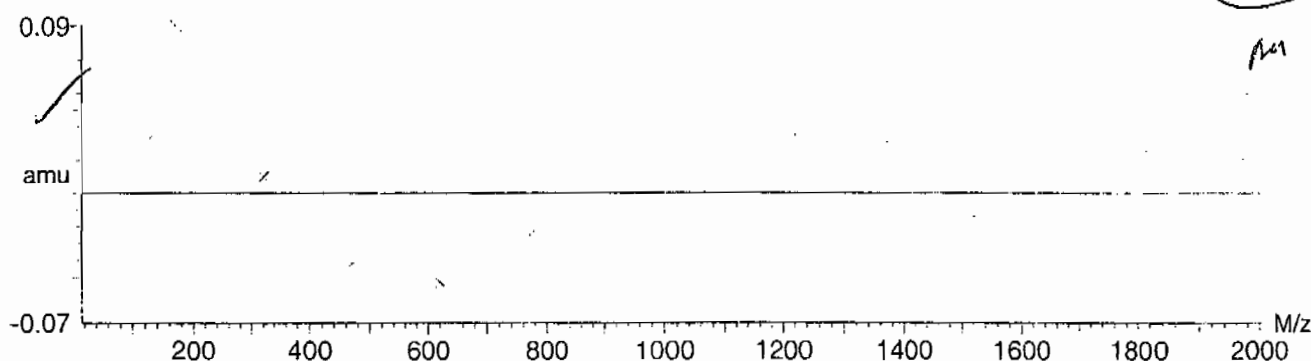


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639e-9 \pm 0.040487$



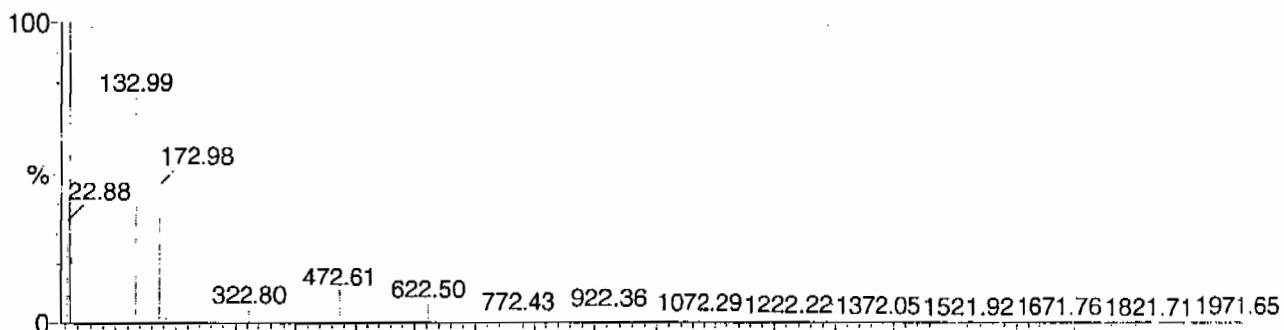
Calibration Report - MS2 Static

Page 1 of 1

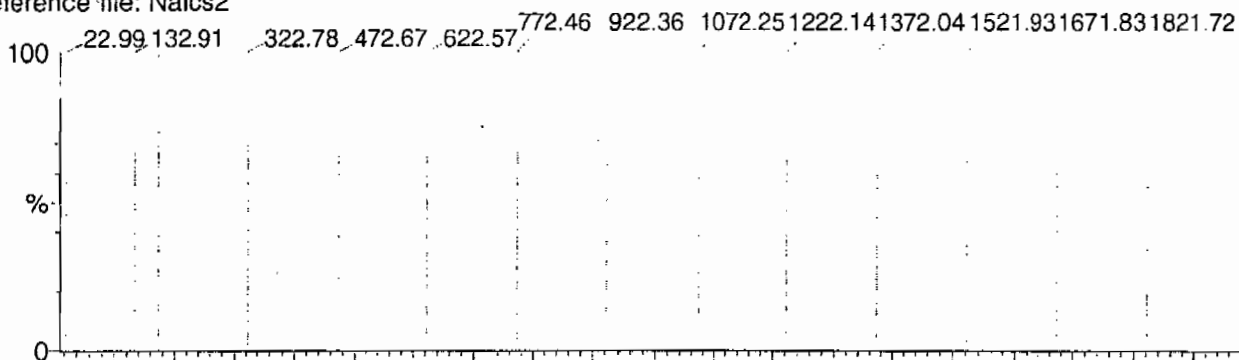
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

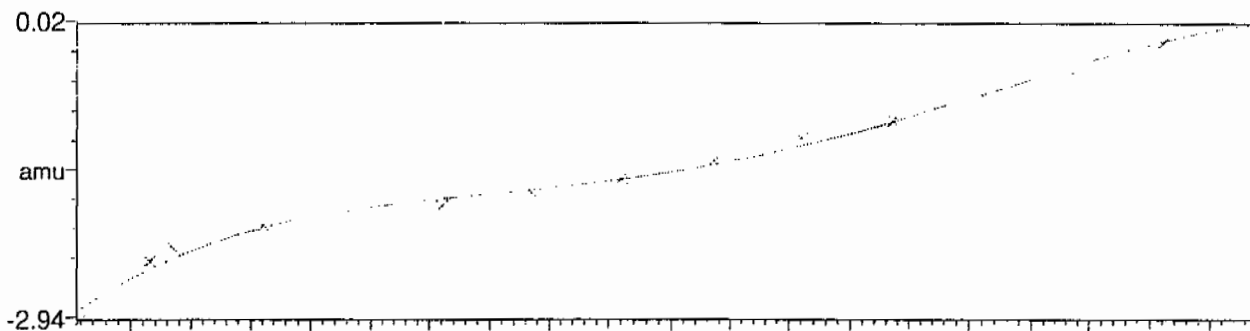
15 matches of 15 tested references



Reference file: Naics2

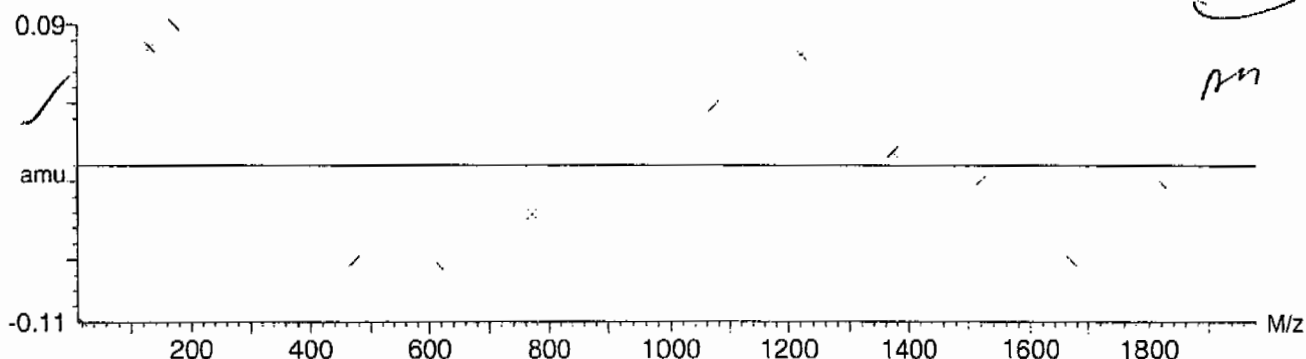


Mass difference (Raw - Ref mass)



Residuals

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



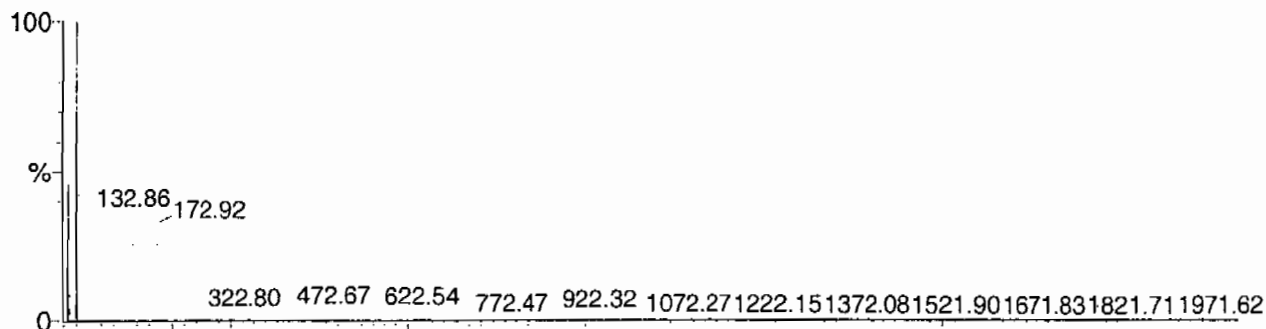
Calibration Report - MS2 Scanning

Page 1 of 1

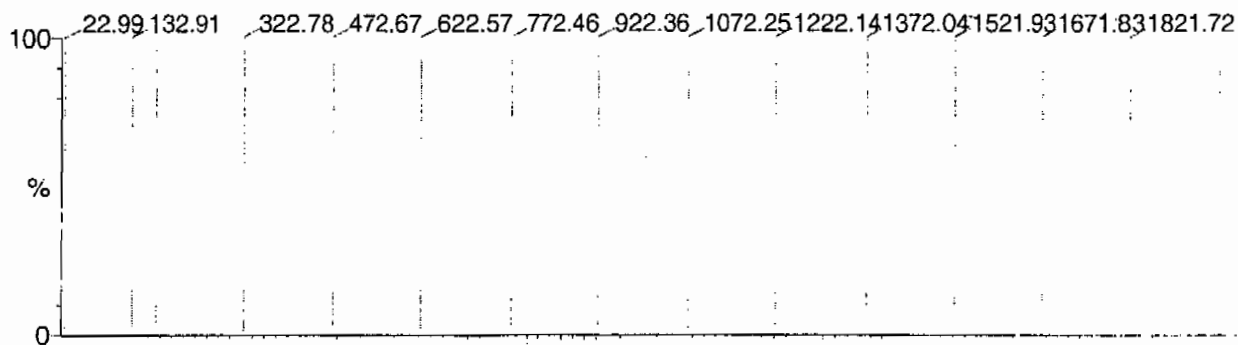
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

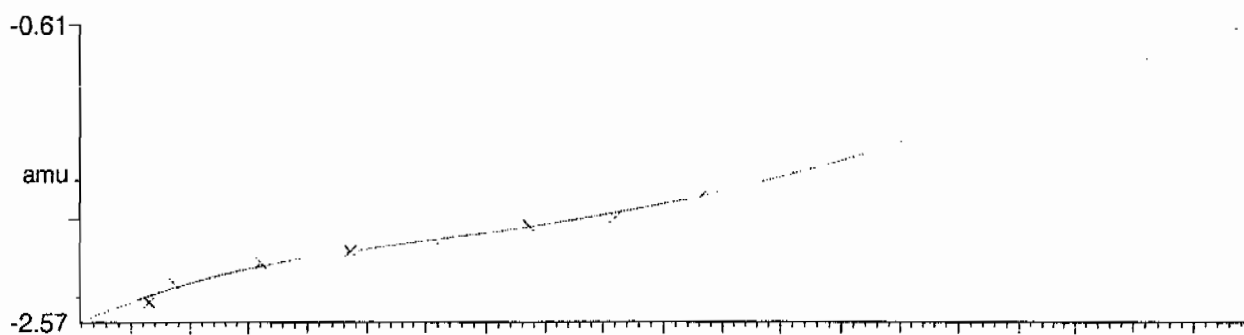
14 matches of 15 tested references



Reference file: Naics2

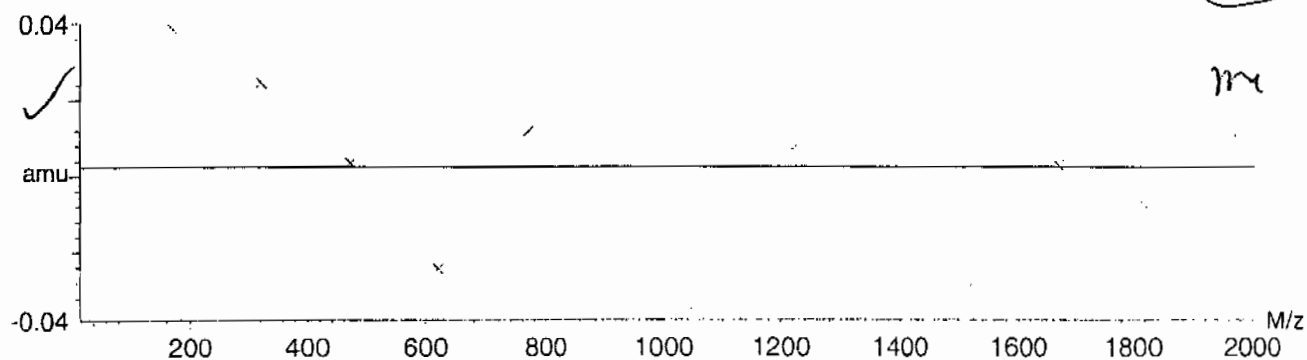


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502e-9 \pm 0.025622$



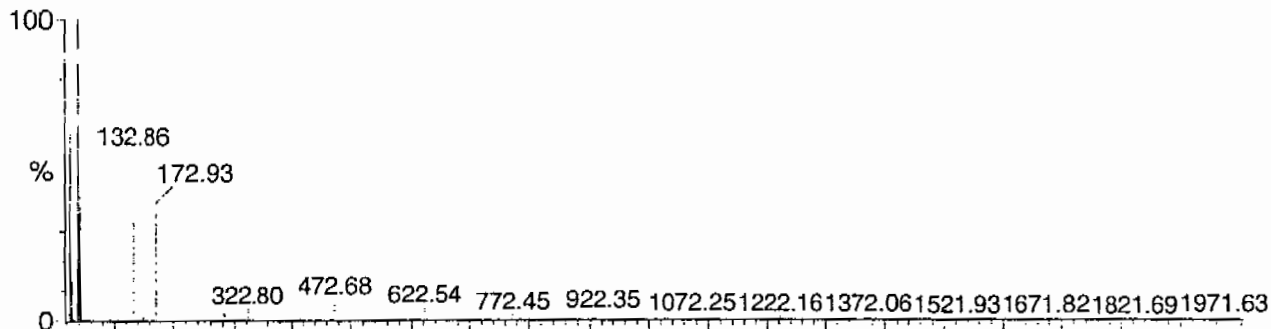
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

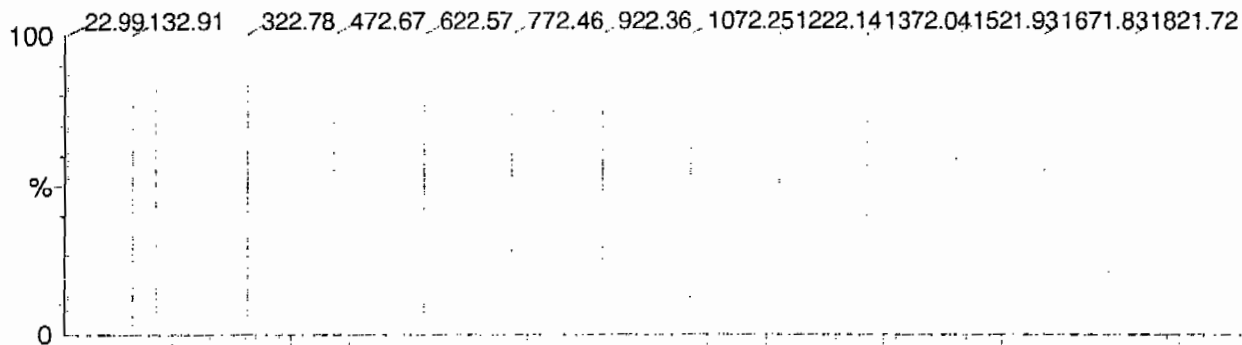
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

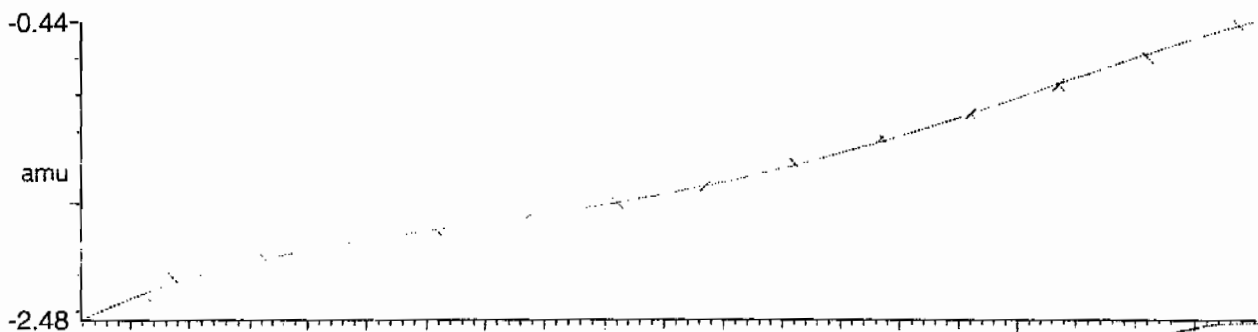
14 matches of 15 tested references



Reference file: Naics2

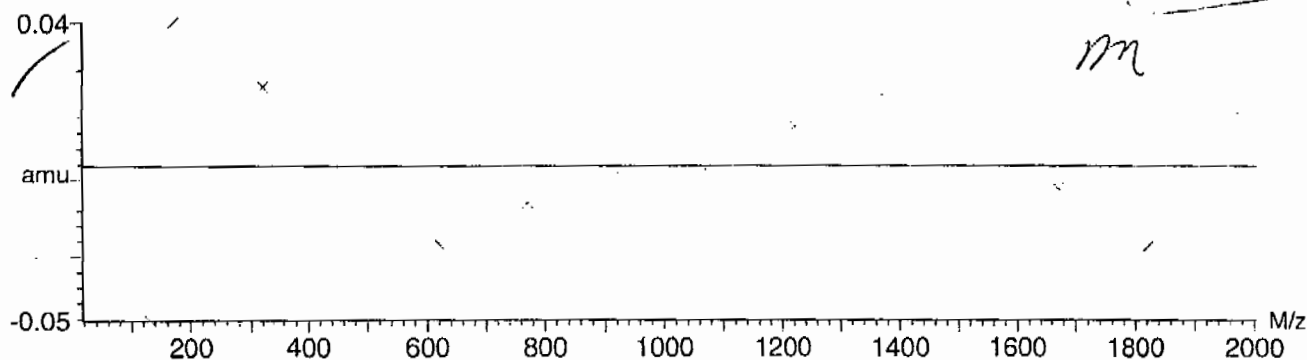


Mass difference (Raw - Ref mass)



Residuals

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



8

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

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) #
			17683333.333	10.6	80233333.333	14.817
Upper Limit			22988333.3329	11.1	104303333.333	15.317
Lower Limit			12378333.3331	10.1	56163333.3331	14.317
MB for batch 954324	30-mar-10 15:39	EXP0330017.w	15600000	10.6	70400000	14.8
LCS for batch 954324	30-mar-10 16:05	EXP0330018.w	17900000	10.6	75800000	14.8
RE15-10-8196	30-mar-10 16:32	EXP0330019.w	17500000	10.6	91200000	14.8
RE15-10-8196(247193001MS)	30-mar-10 16:58	EXP0330020.w	16100000	10.6	80300000	14.8
RE15-10-8196(247193001MSD)	30-mar-10 17:25	EXP0330021.w	17400000	10.6	75200000	14.9
RE15-10-8186	30-mar-10 17:51	EXP0330022.w	17500000	10.7	75900000	14.9
RE15-10-8194	30-mar-10 19:37	EXP0330026.w	18900000	10.6	73100000	14.8
RE15-10-8189	30-mar-10 20:03	EXP0330027.w	17500000	10.6	89600000	14.9
RE15-10-8188	30-mar-10 20:29	EXP0330028.w	15900000	10.7	73100000	14.9
RE15-10-8187	30-mar-10 20:56	EXP0330029.w	18600000	10.7	80800000	14.9
RE15-10-8197	30-mar-10 21:22	EXP0330030.w	18400000	10.7	78400000	15
RE15-10-8190	30-mar-10 21:49	EXP0330031.w	16800000	10.6	72400000	15
RE15-10-8193	30-mar-10 22:15	EXP0330032.w	16300000	10.7	73300000	14.9
RE15-10-8191	30-mar-10 22:41	EXP0330033.w	17800000	10.7	75500000	14.9
RE15-10-8192	30-mar-10 23:08	EXP0330034.w	16500000	10.7	75300000	15
RE15-10-8195	30-mar-10 23:34	EXP0330035.w	15300000	10.6	71300000	14.9

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			12766666.667	10.6	61866666.667	14.767
Upper Limit			16596666.6671	11.1	80426666.6671	15.267
Lower Limit			8936666.6669	10.1	43306666.6669	14.267
RE15-10-8226	01-apr-10 16:54	EXP0401013.w	12300000	10.6	56700000	14.8
RE15-10-8211	01-apr-10 17:21	EXP0401014.w	14700000	10.6	62200000	14.8

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

8

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

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: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330019.wiff

Date Analyzed: 30-MAR-10 16:32

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

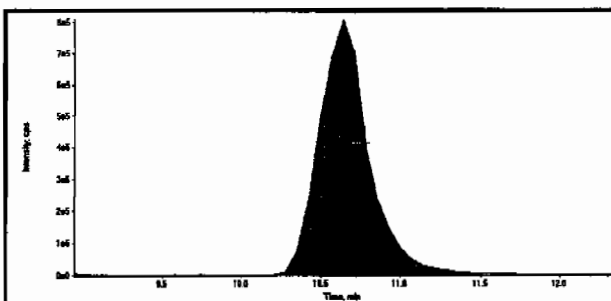
*Concentration =

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

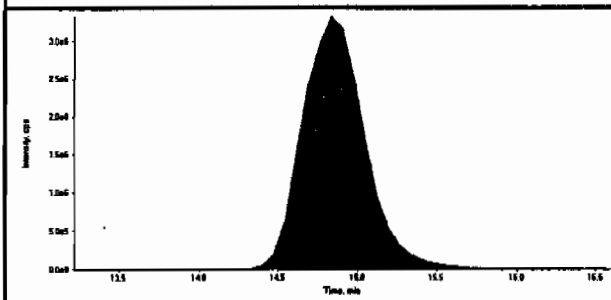
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

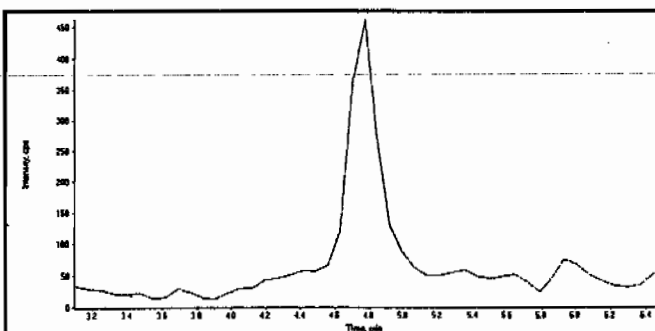
Data File	EXP0330019.wiff	Acquisition Date	3/30/2010 4:32:05 PM
Sample Name	247193001	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



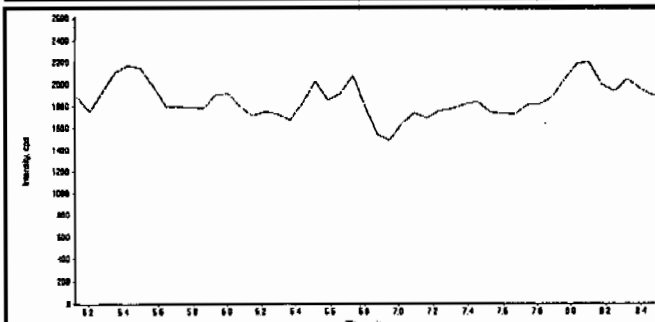
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	17500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	91200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
HMX 04/06/10
LER 4/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330019.wiff	Acquisition Date	3/30/2010 4:32:05 PM
Sample Name	247193001	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330019.wiff	Acquisition Date	3/30/2010 4:32:05 PM
Sample Name	247193001	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	5.27e+007
	Manual Modification	No
	Amount:	248. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.8
	Area Counts:	9.14e+005
	Manual Modification	No
	Amount:	5.54 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330019.wiff	Acquisition Date	3/30/2010 4:32:05 PM
Sample Name	247193001	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

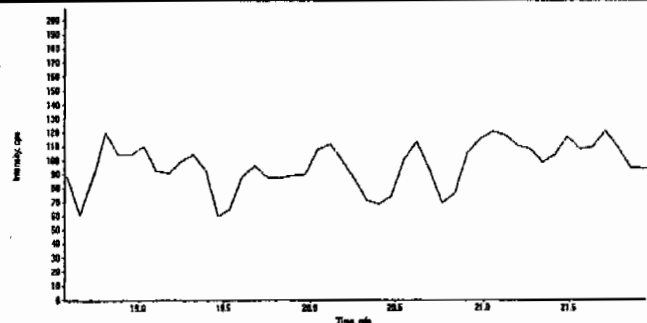
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

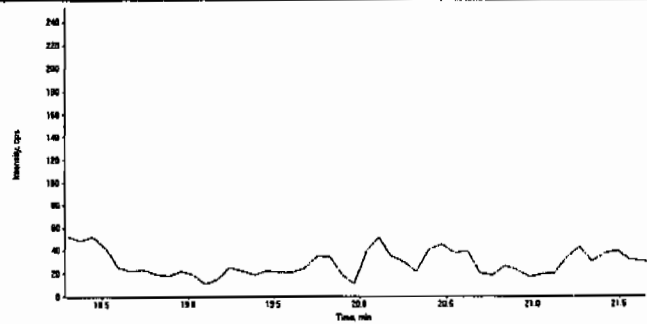
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330019.wiff	Acquisition Date	3/30/2010 4:32:05 PM
Sample Name	247193001	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8196

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100084.wiff

Date Analyzed: 11-MAR-10 13:14

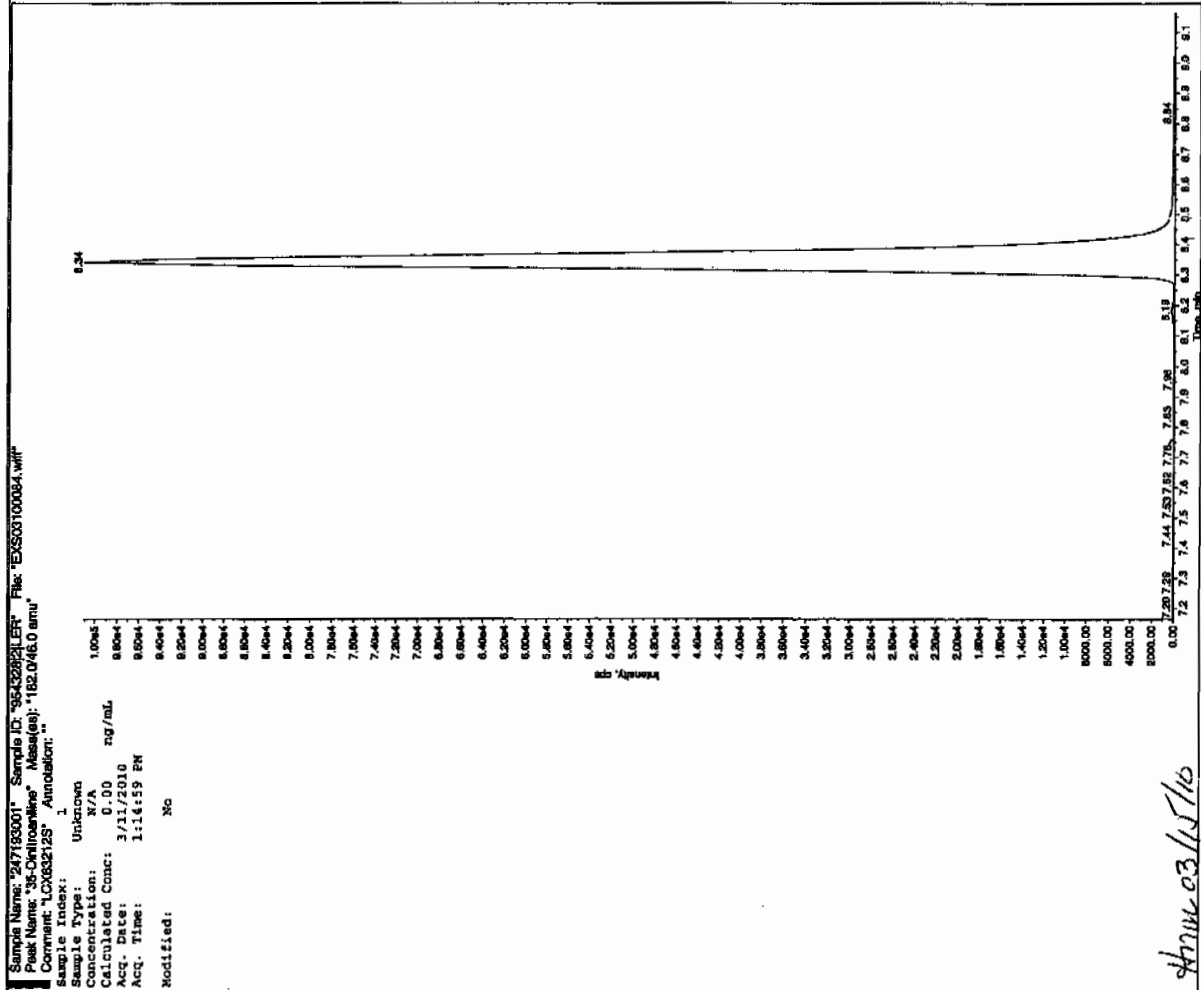
Units: ug/kg

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

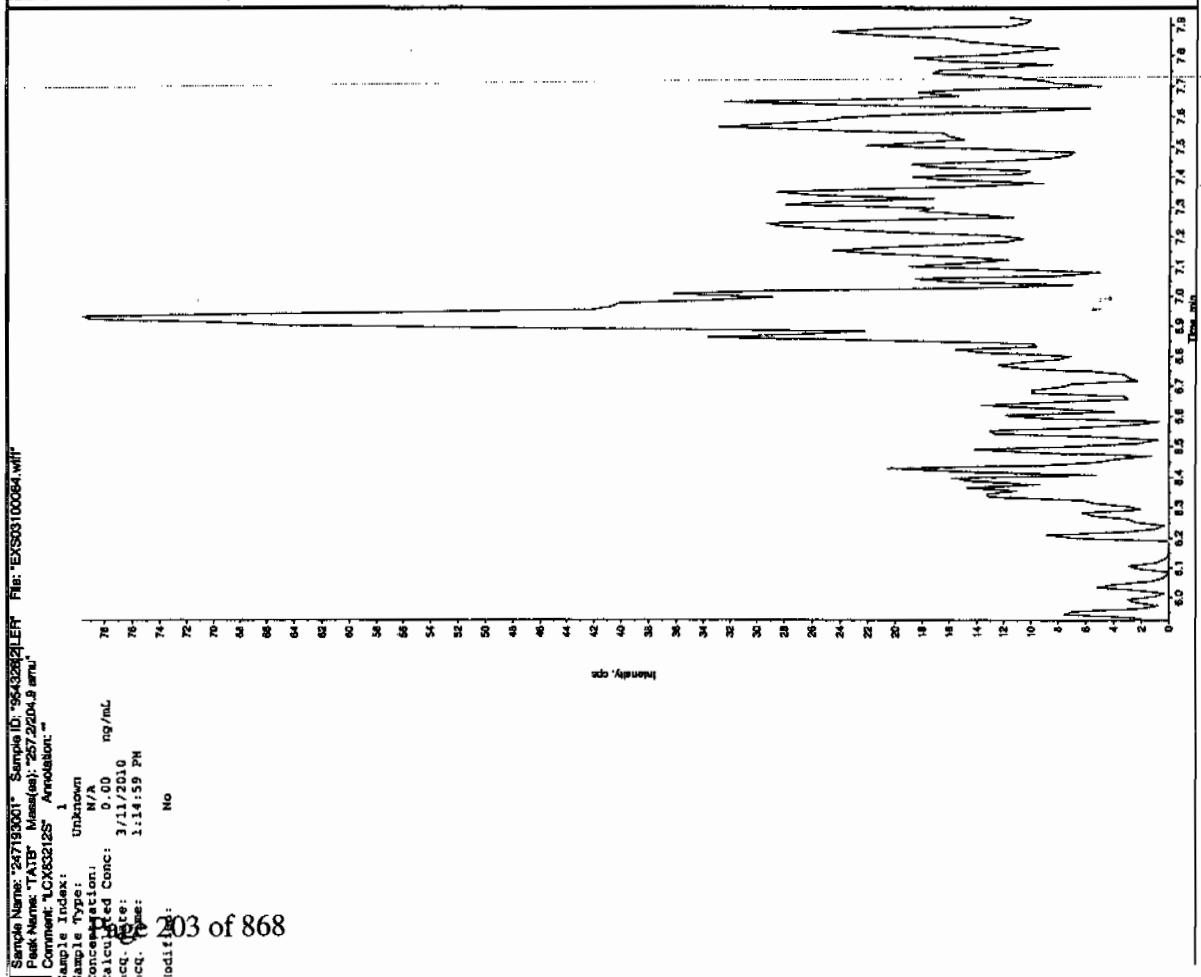
*Concentration =

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

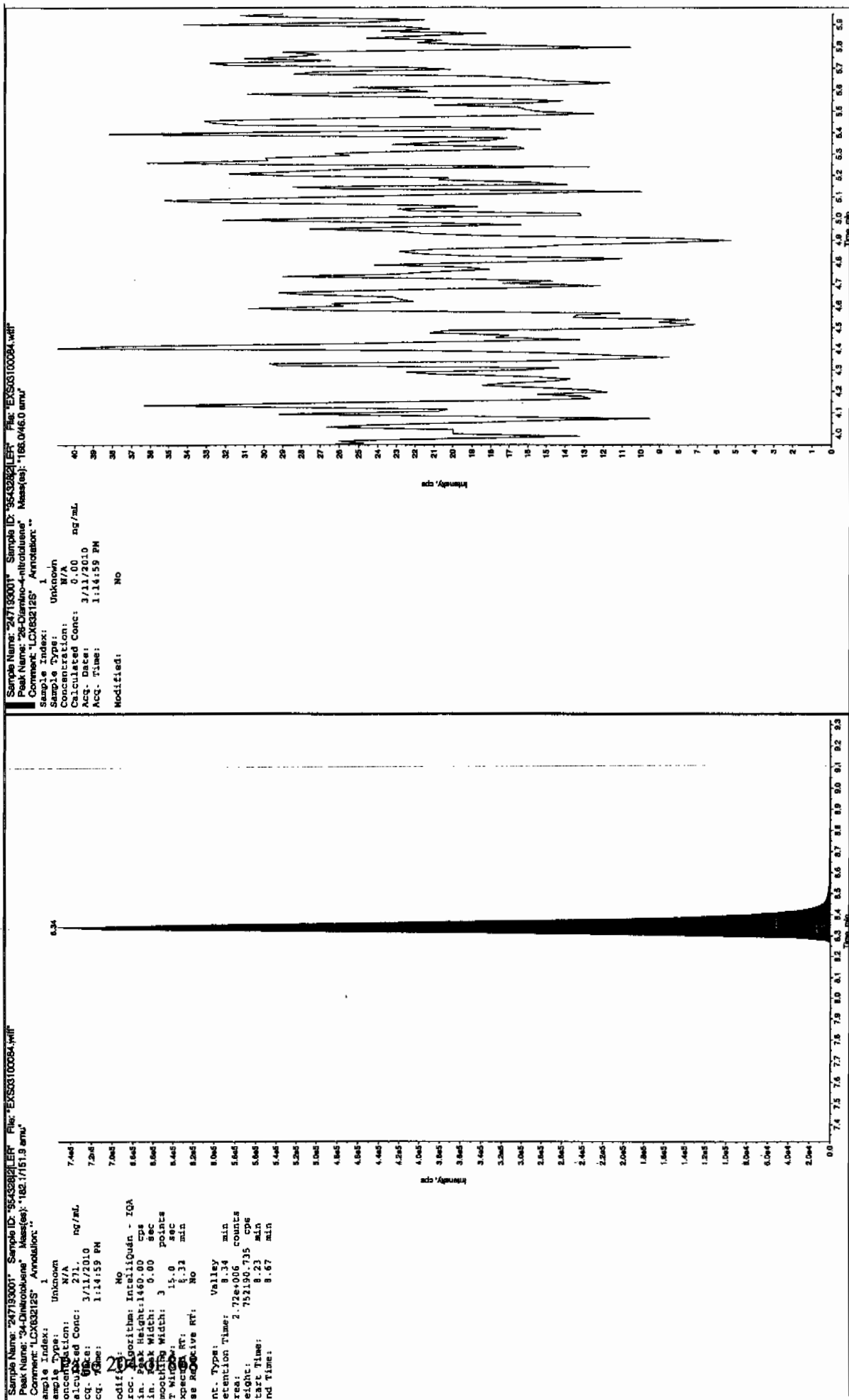
LC# 3/14/10



Arrival 03/15/10



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



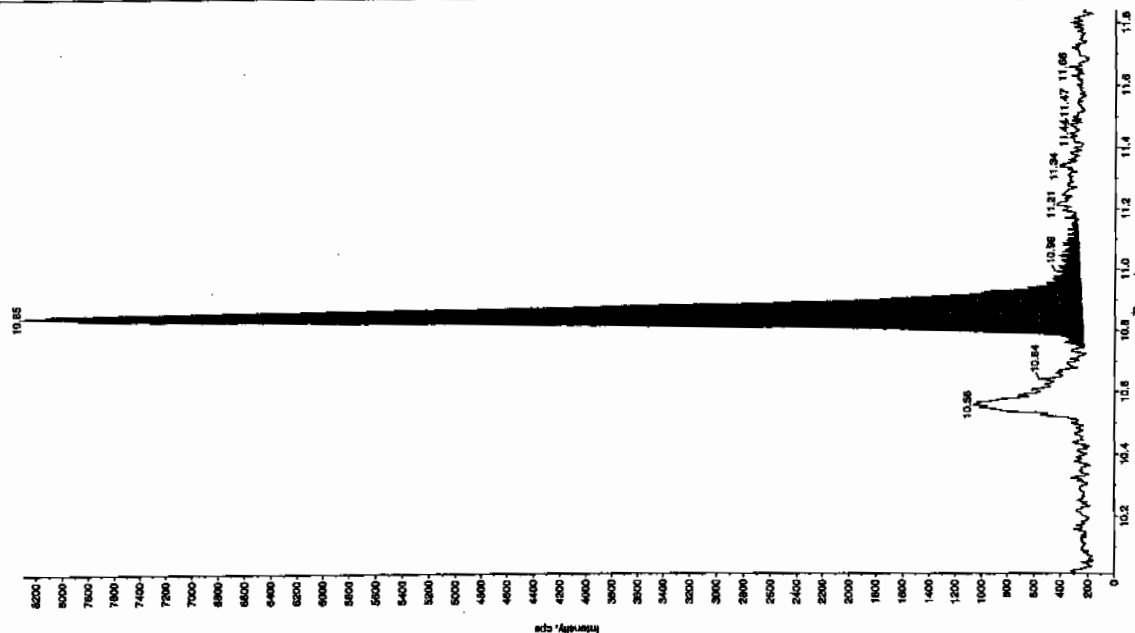
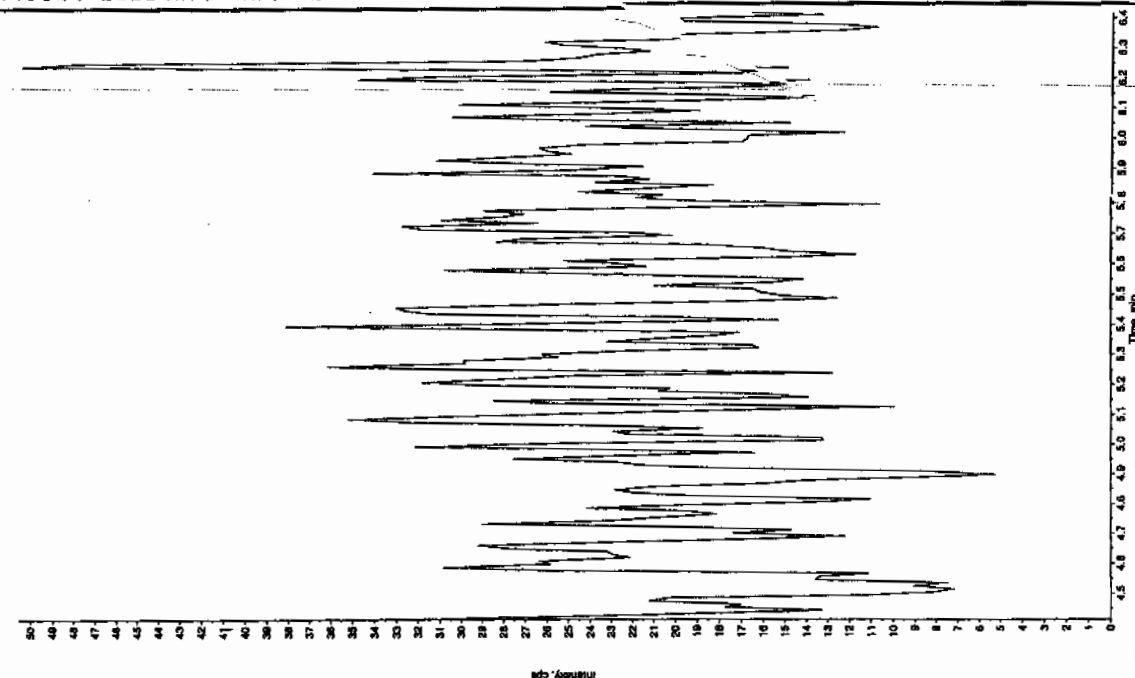
Sample Name: 247183001 Sample ID: 9543282125 File: EX503100084.wiff
 Peak Name: "M-O-crocin phosphate" Mass(es): 369.151.0 amu
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:14:59 PM
 Modified: No

205 of 868

Sample Name: 247183001 Sample ID: 9543282125 File: EX503100084.wiff
 Peak Name: "M-O-crocin phosphate" Mass(es): 369.151.0 amu
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/11/2010
 Acq. Time: 1:14:59 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 3.34e+004 counts
 Height: 8052.750 cps
 Start Time: 10.7 min
 End Time: 11.1 min



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8186

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193002

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330022.wiff

Date Analyzed: 30-MAR-10 17:51

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

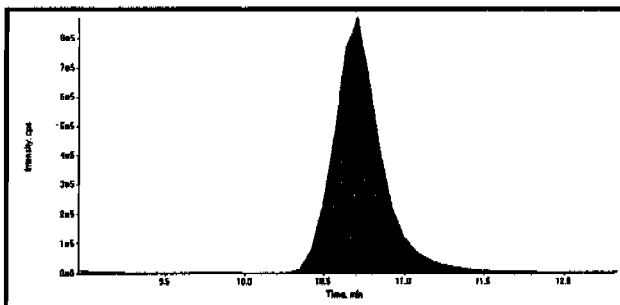
*Concentration =

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

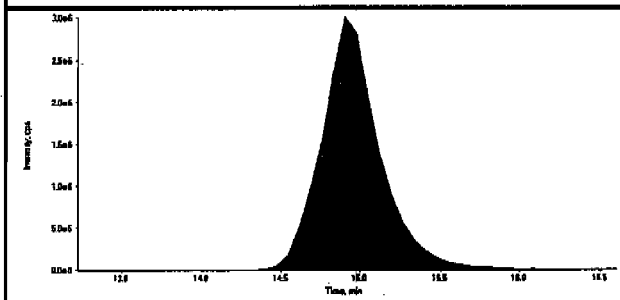
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

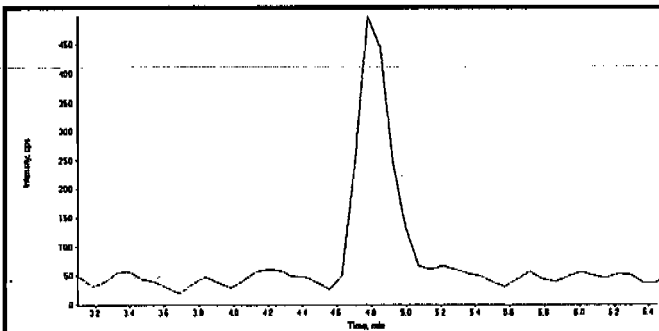
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Sample Name	247193002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



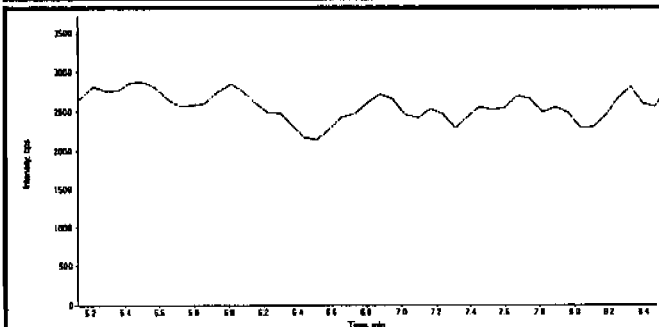
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	17500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	75900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



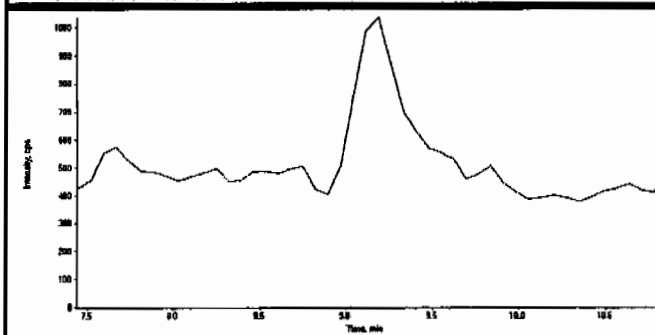
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten signature/initials

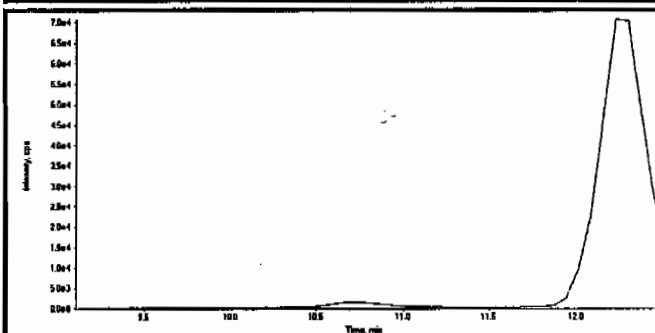
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

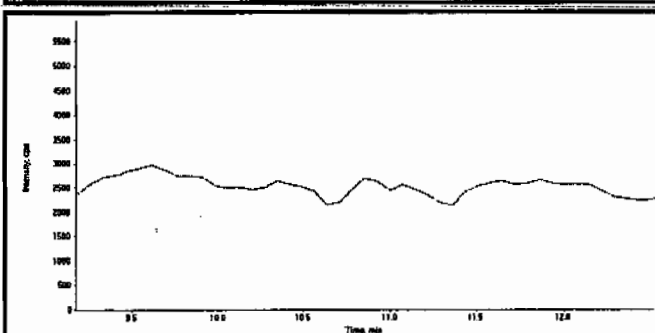
Data File	EXP0330022.wiff	Acquisition Date	3/30/2010 5:51:25 PM
Sample Name	247193002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



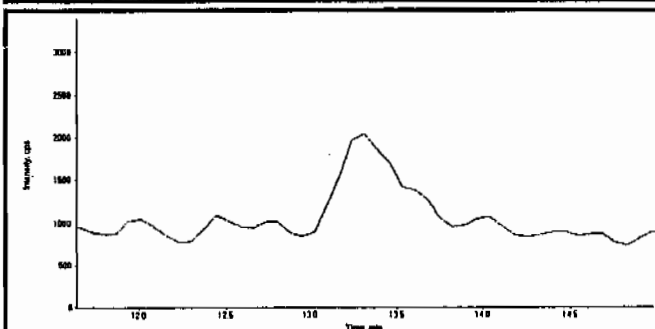
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	9.12
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330022.wiff	Acquisition Date	3/30/2010 5:51:25 PM
Sample Name	247193002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.93e+007
	Manual Modification	No
	Amount:	279. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.9
	Area Counts:	8.72e+005
	Manual Modification	No
	Amount:	6.36 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330022.wiff	Acquisition Date	3/30/2010 5:51:25 PM
Sample Name	247193002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

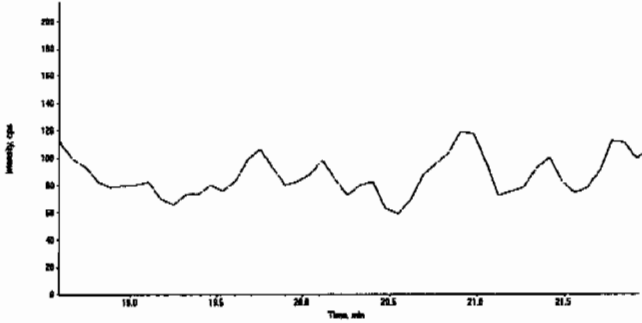
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

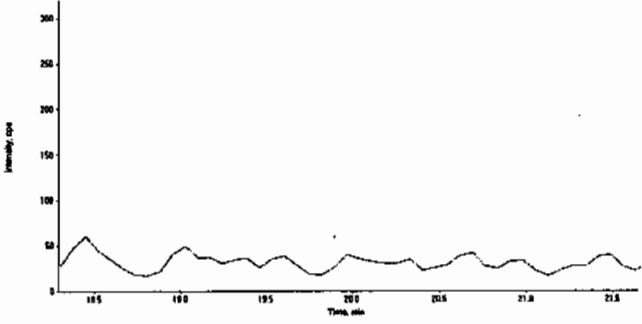
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330022.wiff	Acquisition Date	3/30/2010 5:51:25 PM
Sample Name	247193002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8186

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193002

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100087.wiff

Date Analyzed: 11-MAR-10 14:02

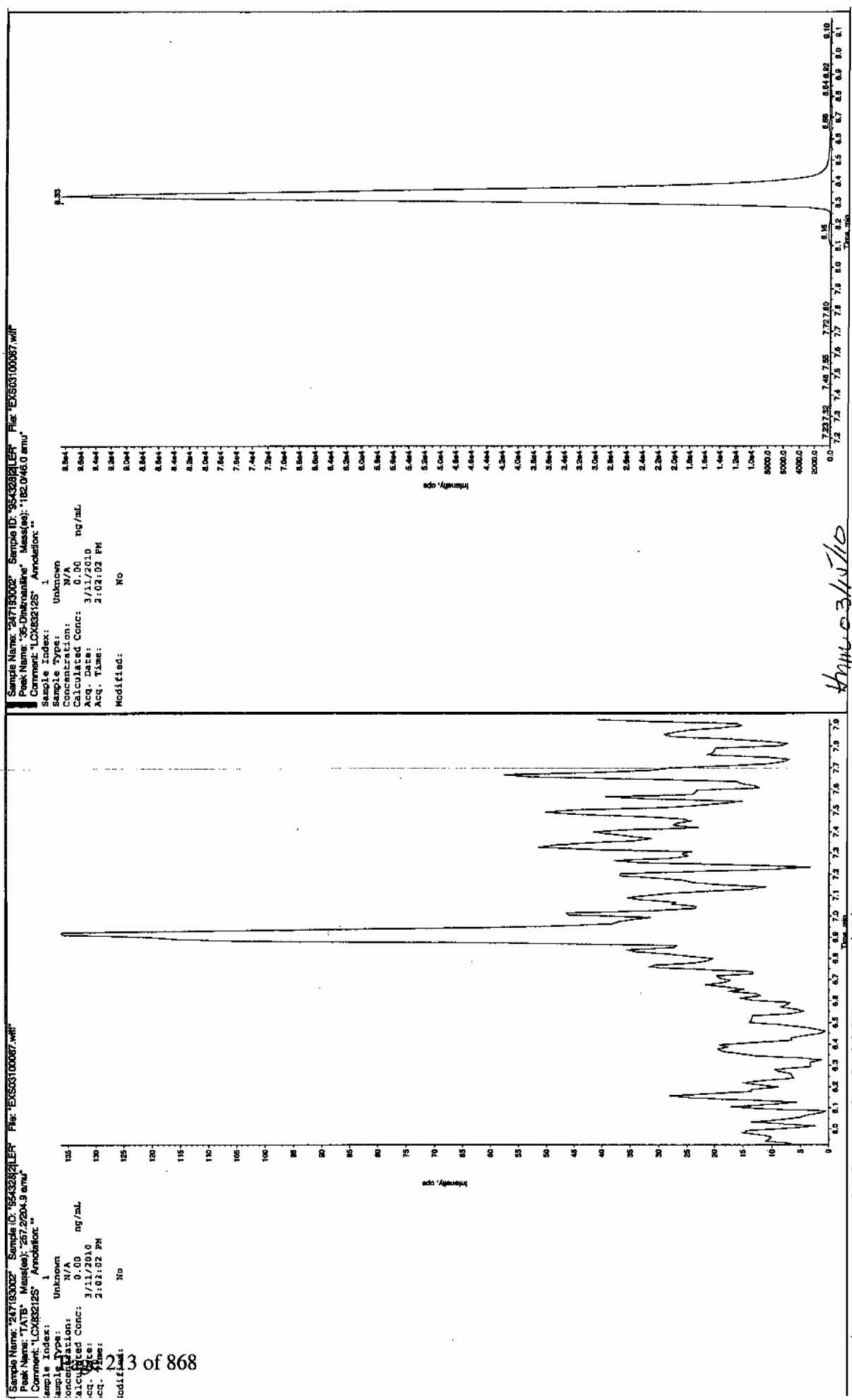
Units: ug/kg

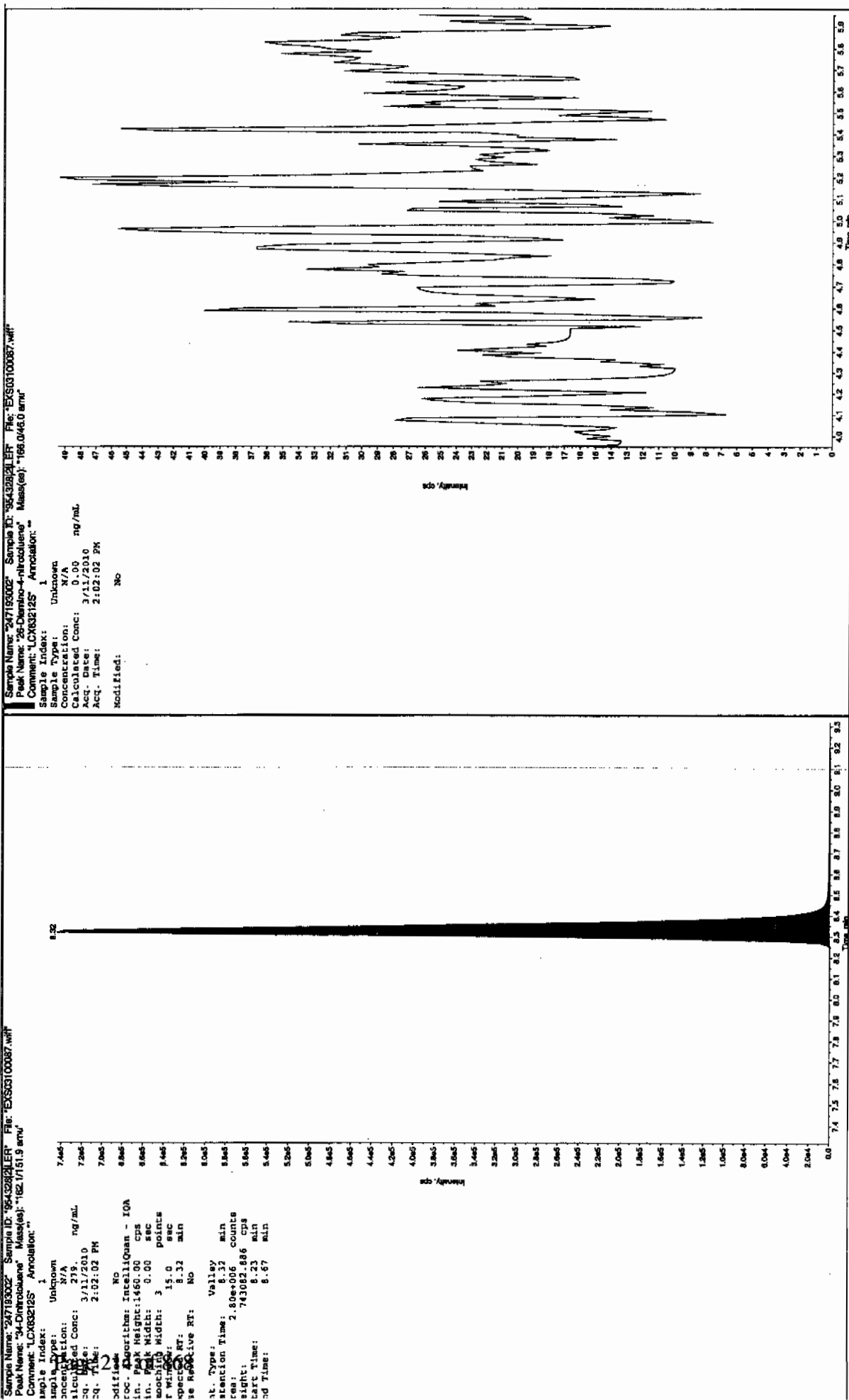
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

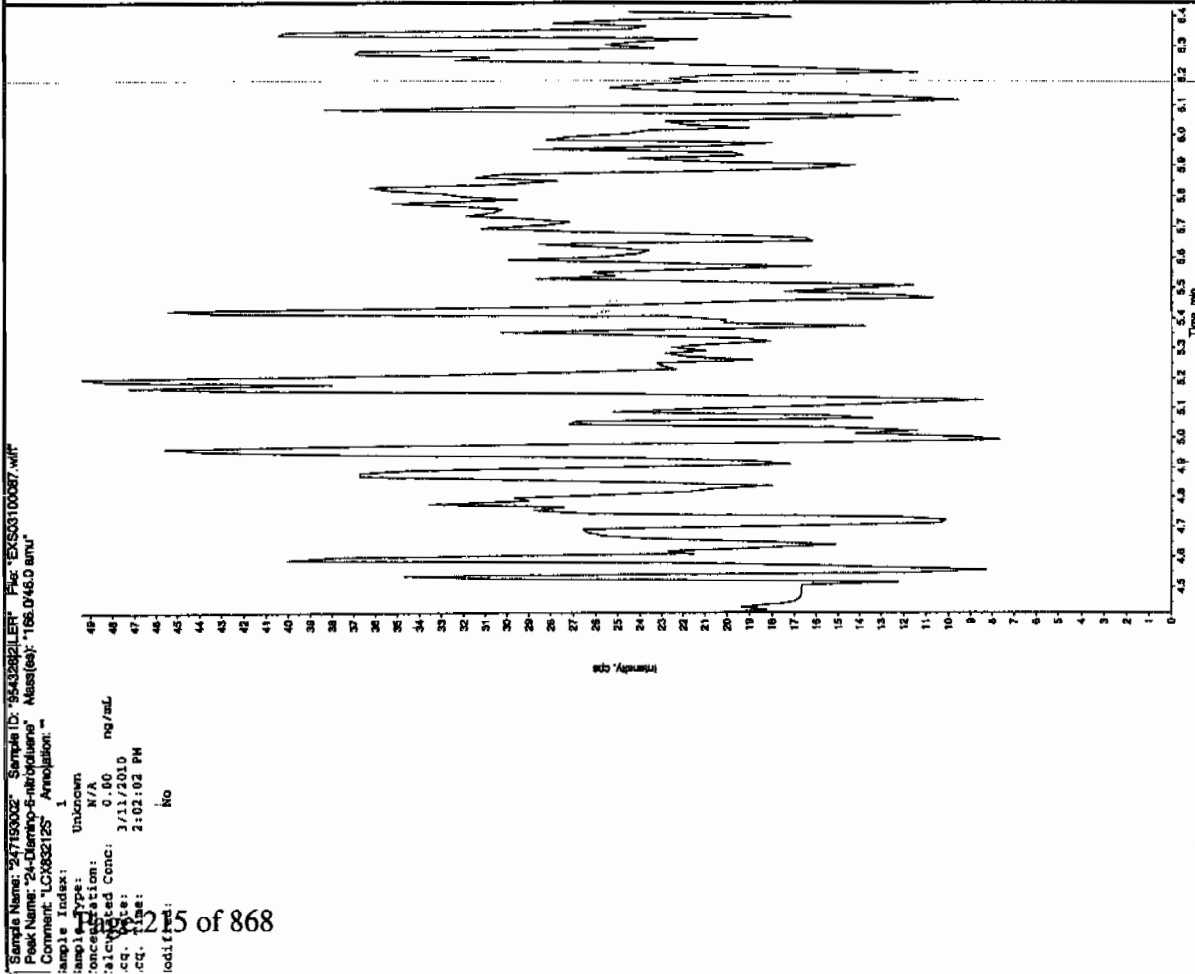
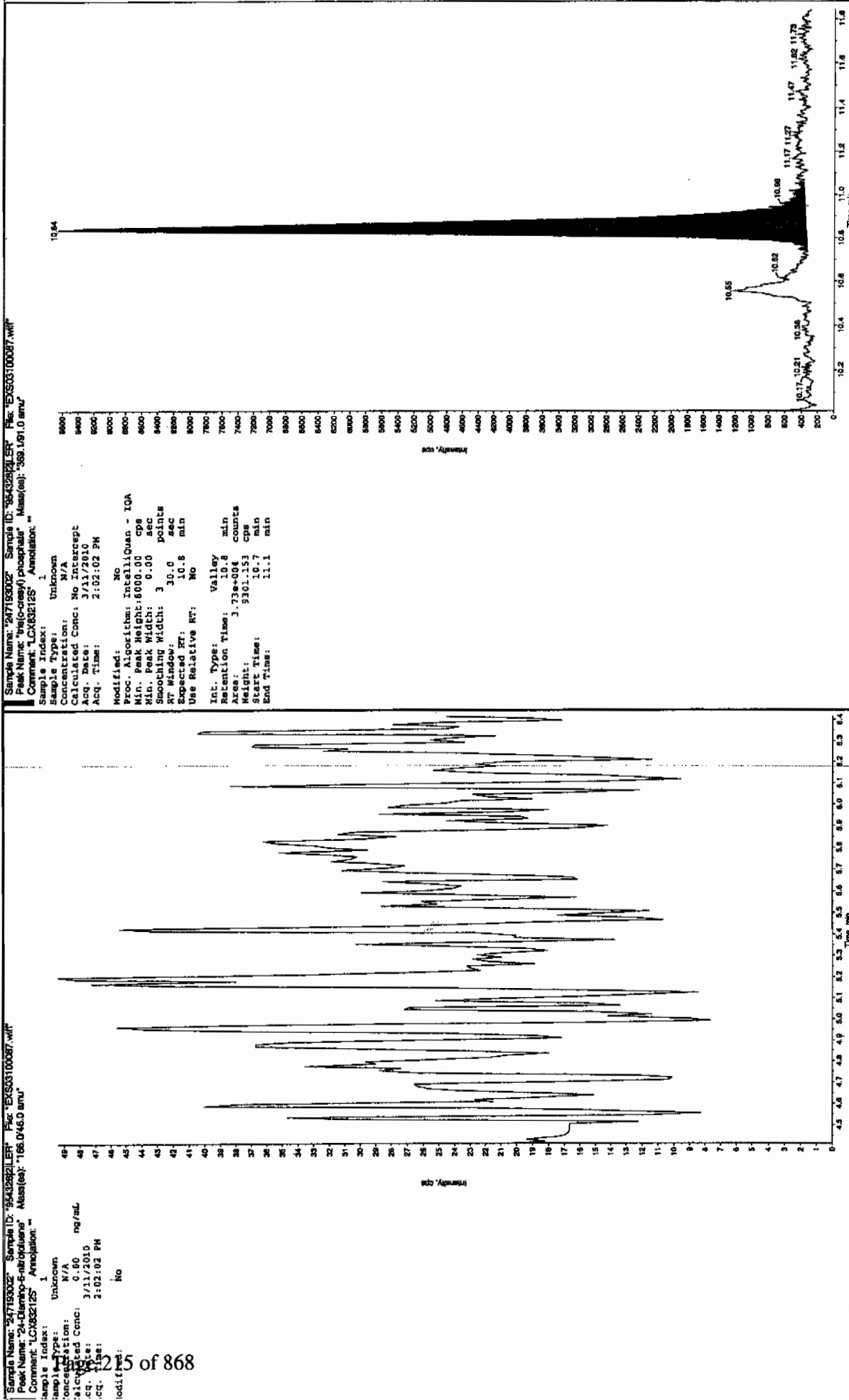
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Ken 3/14/10





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



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8194

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330026.wiff

Date Analyzed: 30-MAR-10 19:37

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

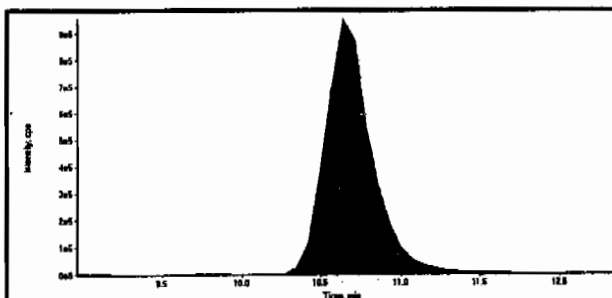
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

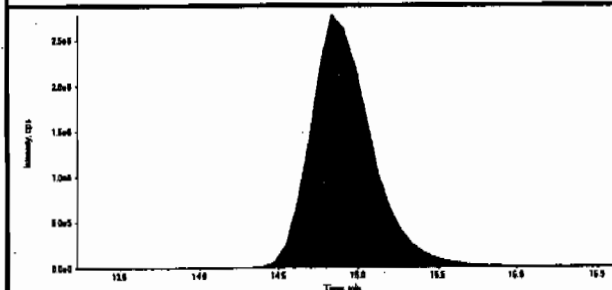
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330026.wiff	Acquisition Date	3/30/2010 7:37:04 PM
Sample Name	247193003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



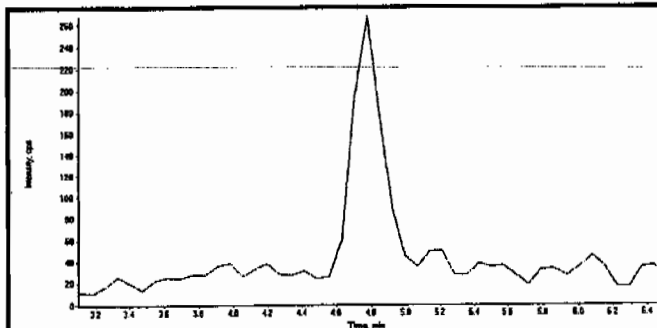
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	18900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

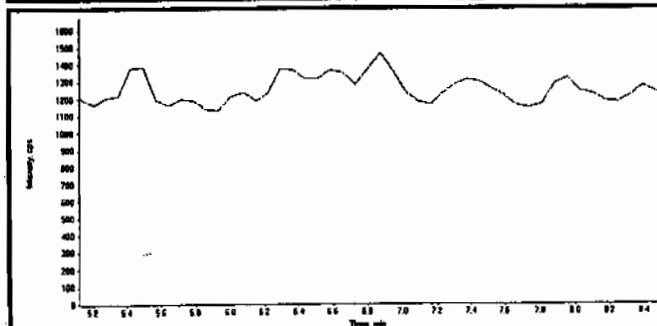


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	73100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



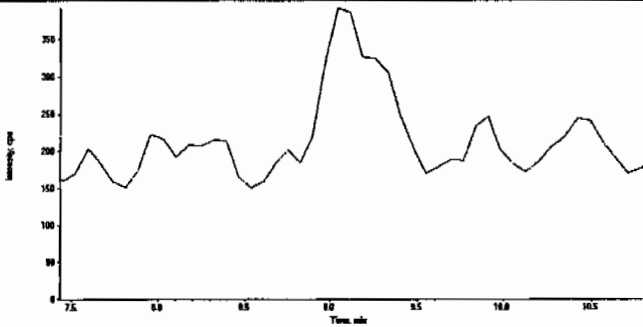
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

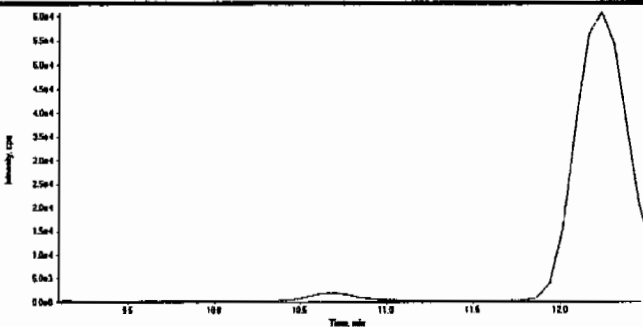
Handwritten:
HMX
04/01/10
LER
4/12/10

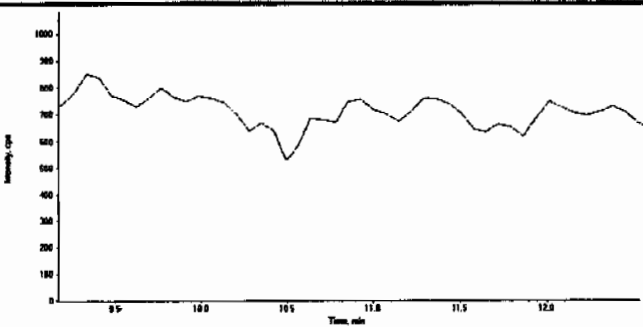
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified


Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330026.wiff	Acquisition Date	3/30/2010 7:37:04 PM
Sample Name	247193003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

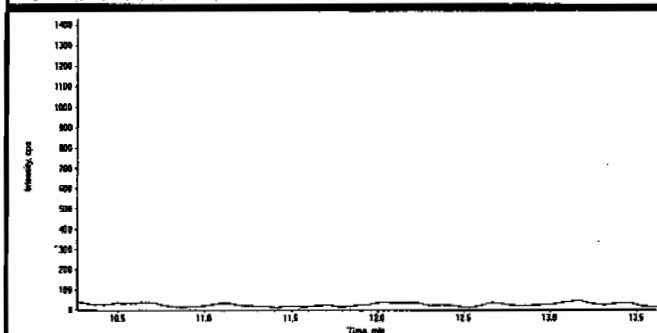
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

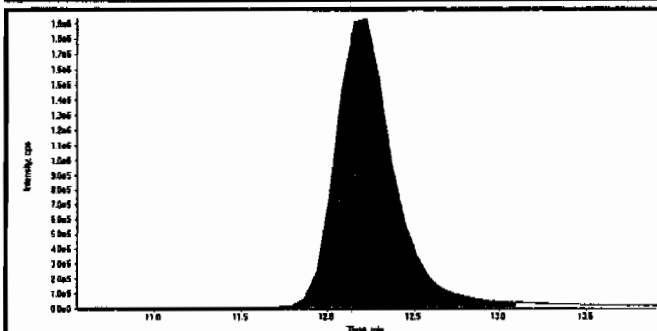
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

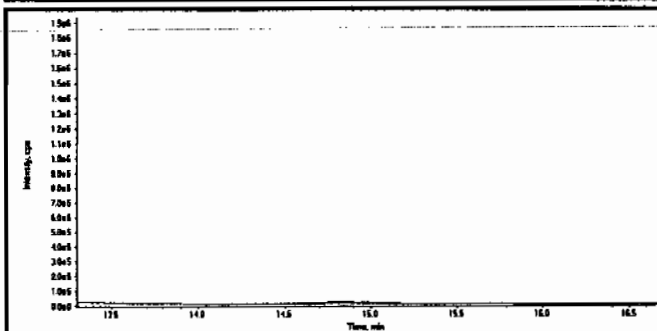
Data File	EXP0330026.wiff	Acquisition Date	3/30/2010 7:37:04 PM
Sample Name	247193003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



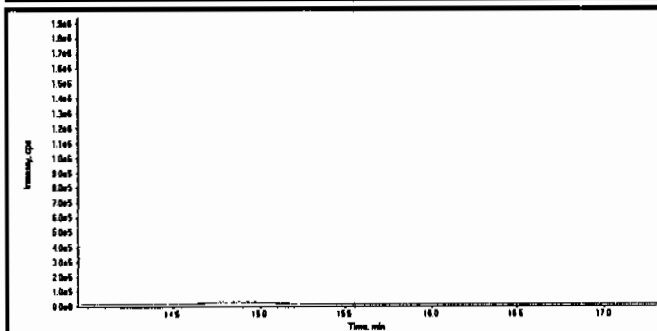
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.2
Actual RT:	12.2
Area Counts:	4.50e+007
Manual Modification	No
Amount:	265. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.0
Actual RT:	14.8
Area Counts:	4.13e+005
Manual Modification	No
Amount:	3.13 (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330026.wiff	Acquisition Date	3/30/2010 7:37:04 PM
Sample Name	247193003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330026.wiff	Acquisition Date	3/30/2010 7:37:04 PM
Sample Name	247193003	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8194

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100088.wiff

Date Analyzed: 11-MAR-10 14:17

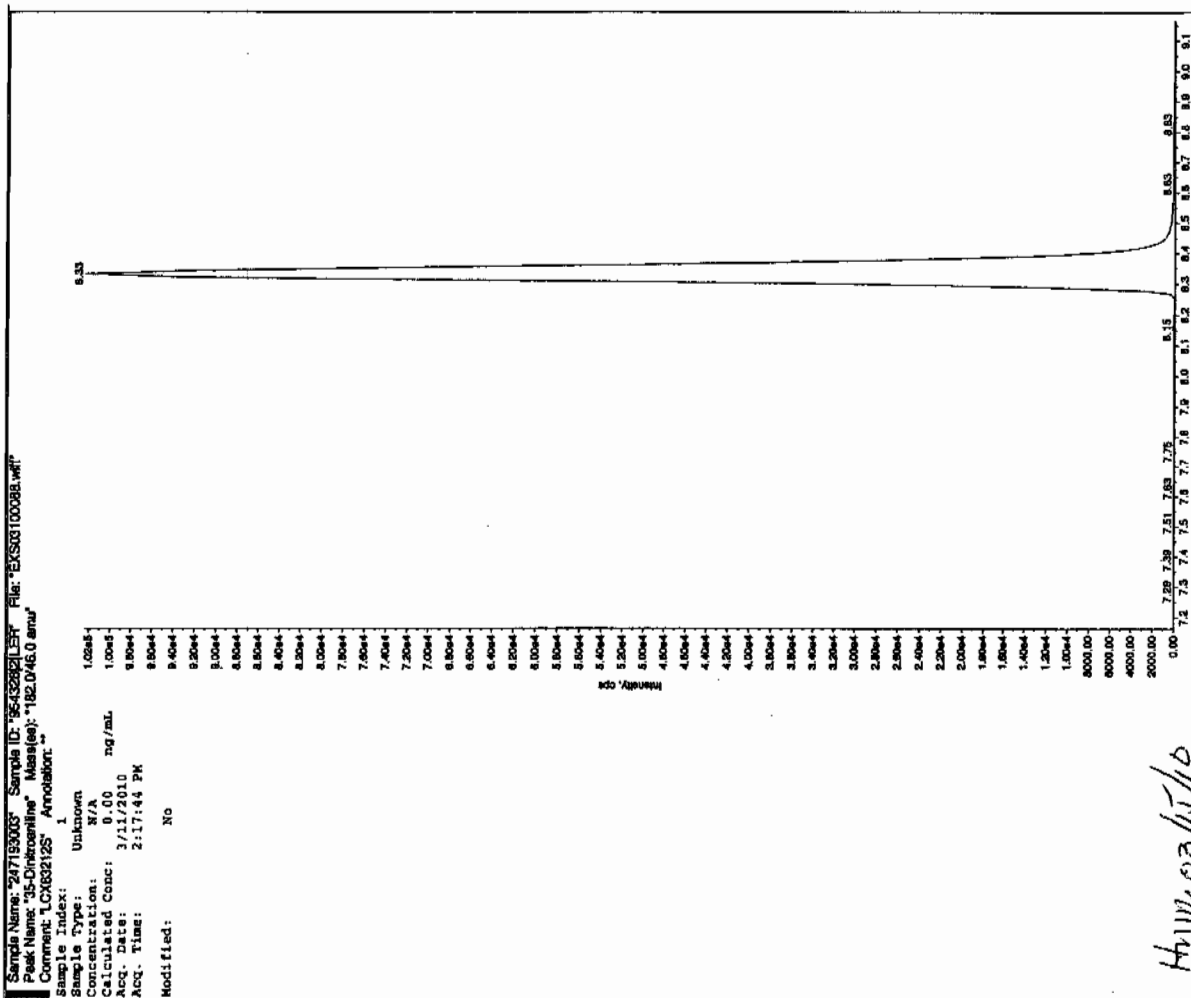
Units: ug/kg

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

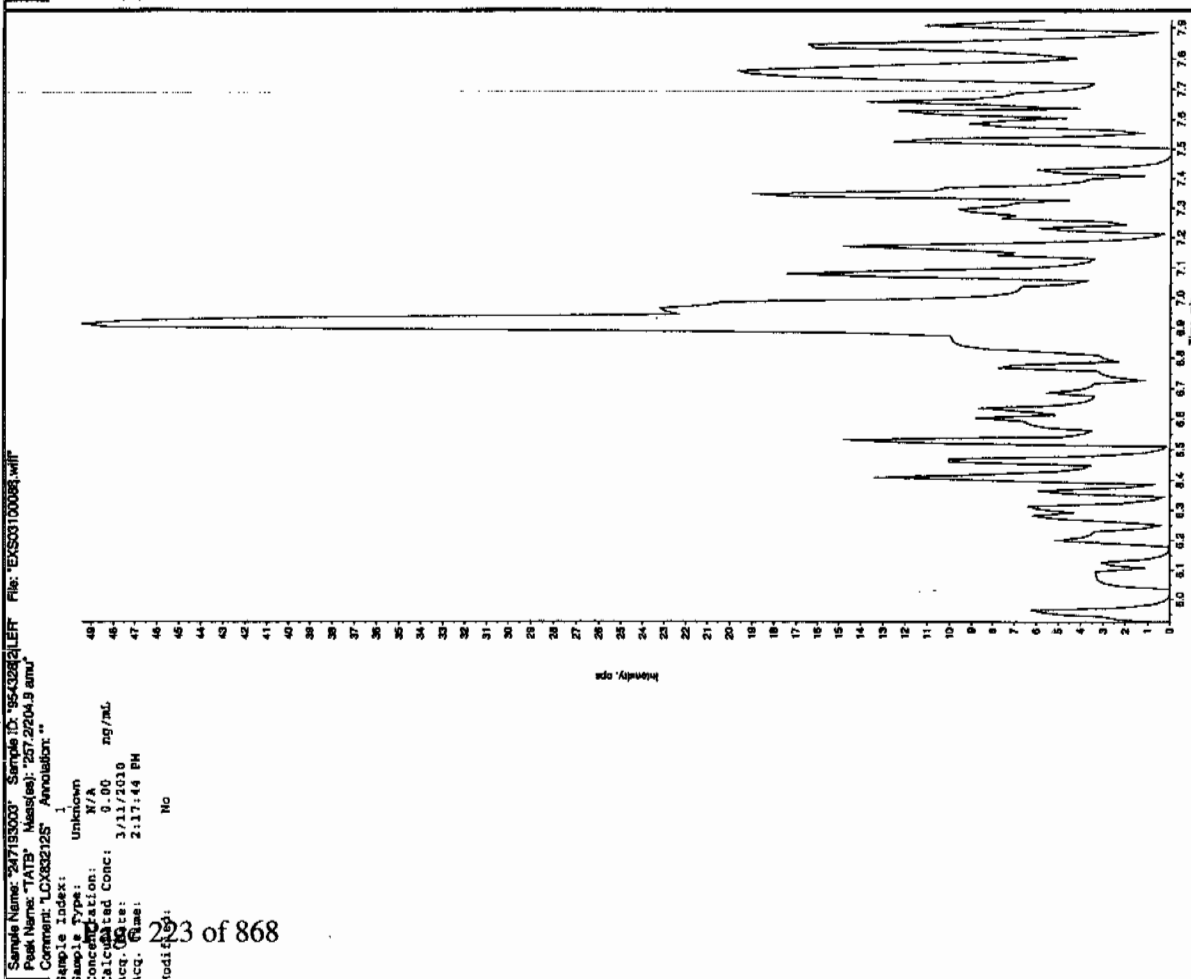
*Concentration =

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

don 3/14/10



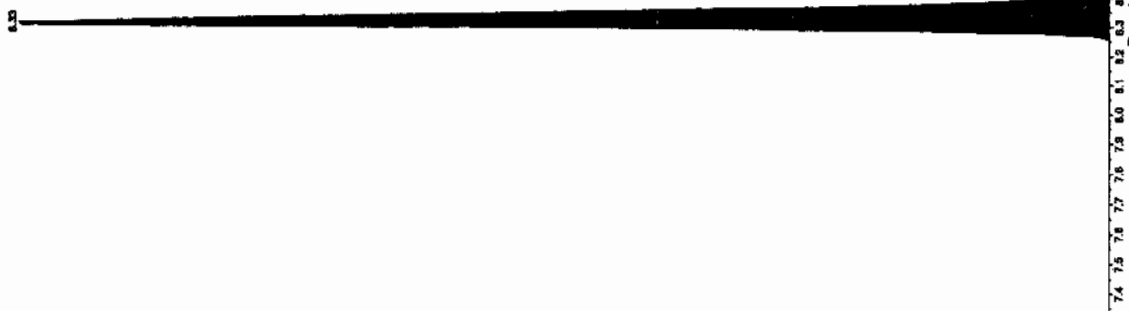
don 3/14/10



Sample Name: "247183003" Sample ID: "954328212" File: "EXS03100088.wiff"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 270. ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 2:17:44 PM
 Acq. Time: 2:17:44 PM
 Modified: NO
 Method: NO
 nt. Type: Valley
 Retention Time: 8.33 min
 Area: 2.71e+006 counts
 Height: 709003.357 cps
 Start Time: 8.20 min
 End Time: 8.67 min

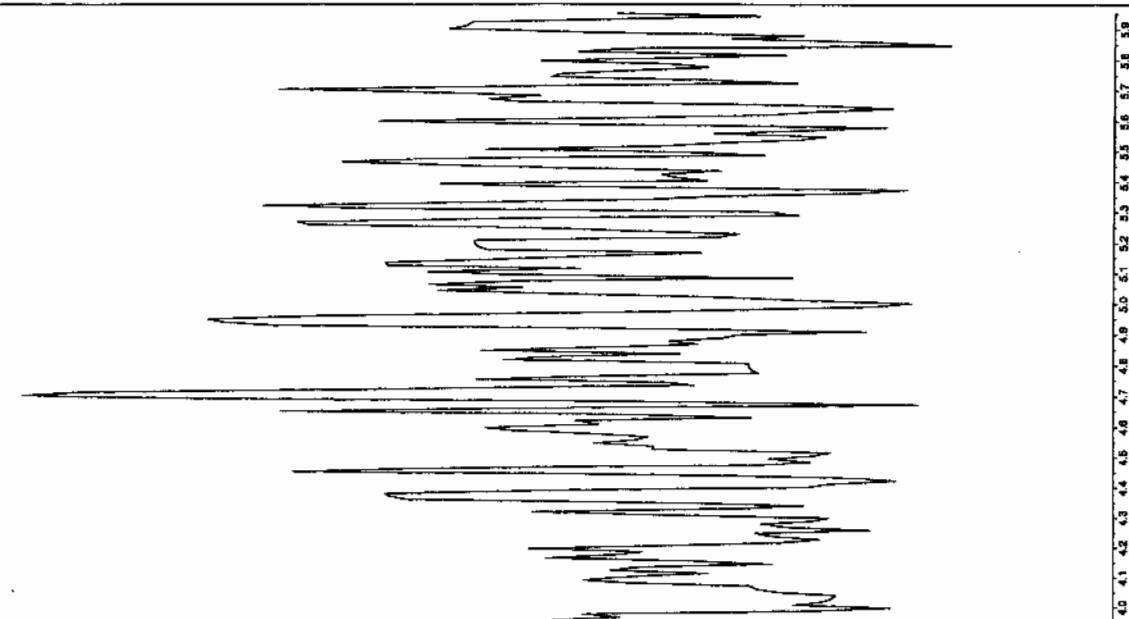
7.0e5
 6.0e5
 5.0e5
 4.0e5
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 1.0e5
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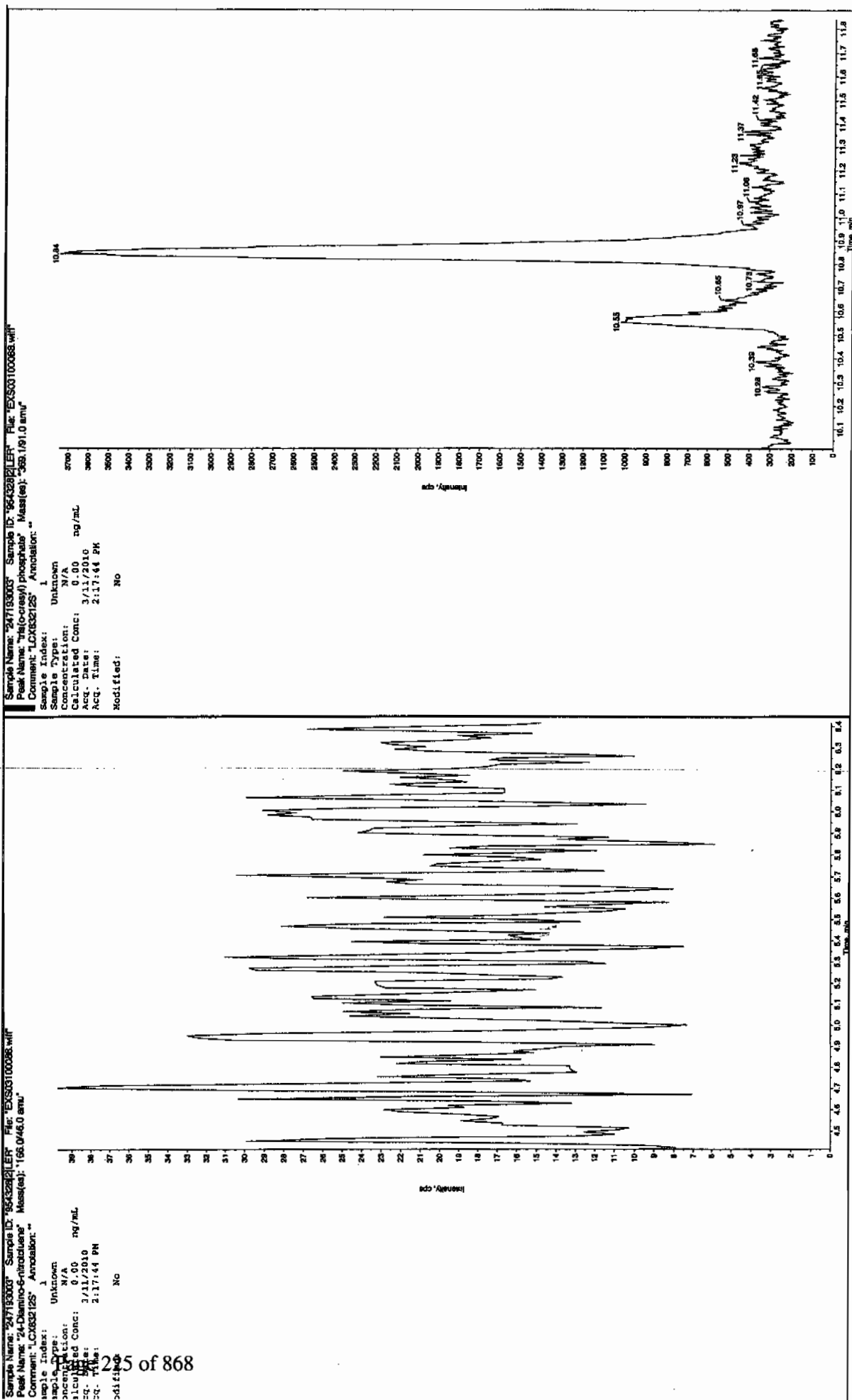


Sample Name: "247183003" Sample ID: "954328212" File: "EXS03100088.wiff"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "186.0/165.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 2:17:44 PM
 Modified: NO

38
 36
 34
 32
 30
 28
 26
 24
 22
 20
 18
 16
 14
 12
 10
 8
 6
 4
 2
 0





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8189

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193004

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330027.wiff

Date Analyzed: 30-MAR-10 20:03

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

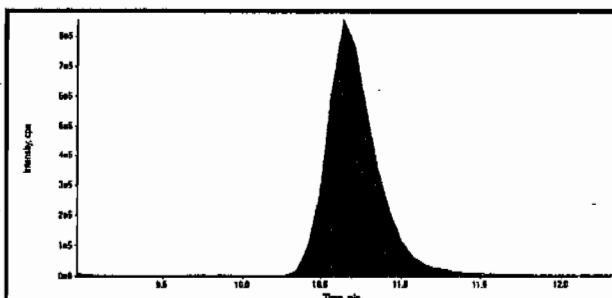
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

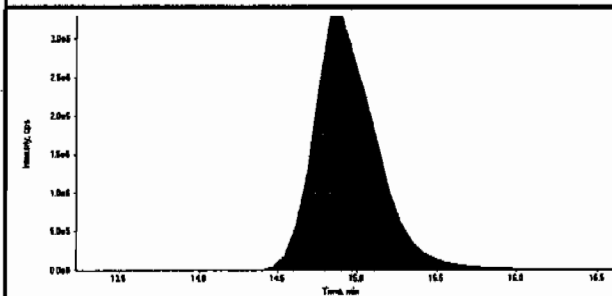
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330027.wiff	Acquisition Date	3/30/2010 8:03:35 PM
Sample Name	247193004	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



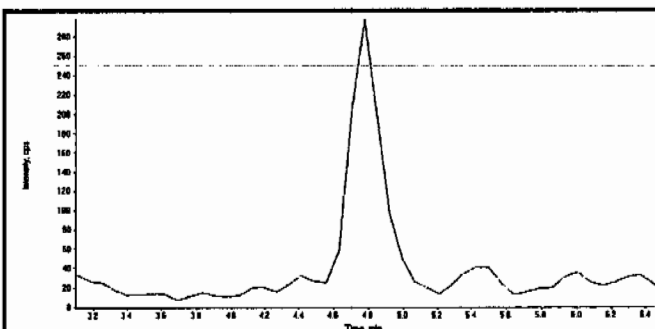
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	17500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

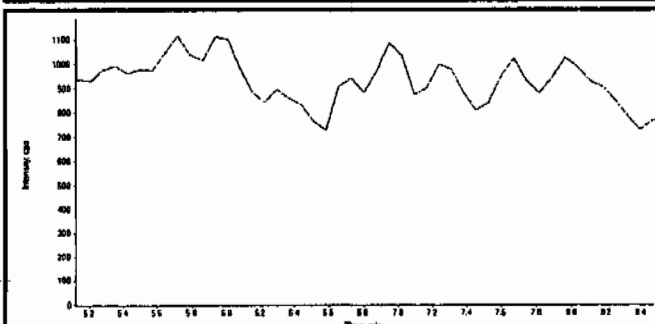


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	89600000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



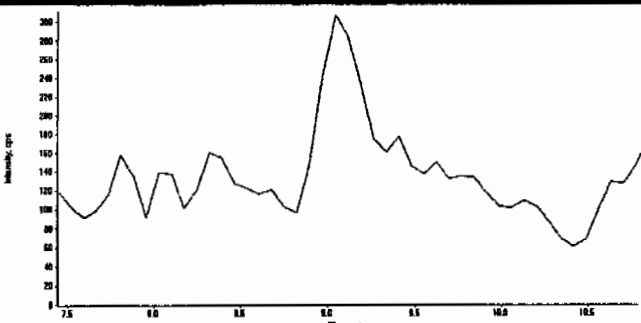
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

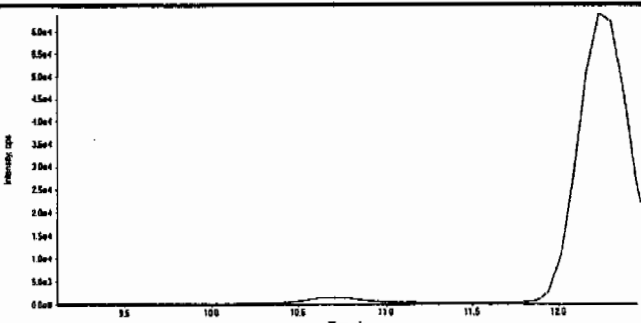
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4/10/10
RDX
4/10/10

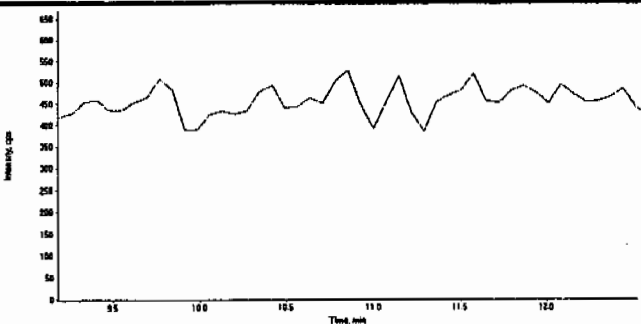
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

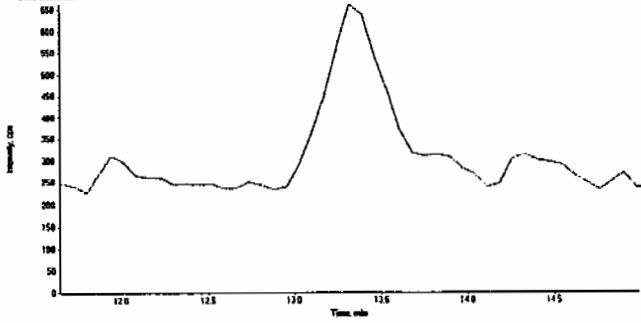
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330027.wiff	Acquisition Date	3/30/2010 8:03:35 PM
Sample Name	247193004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

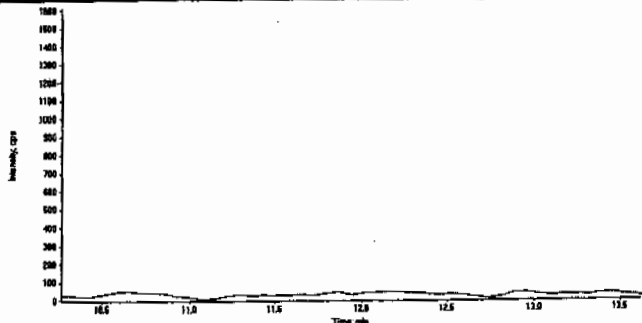
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

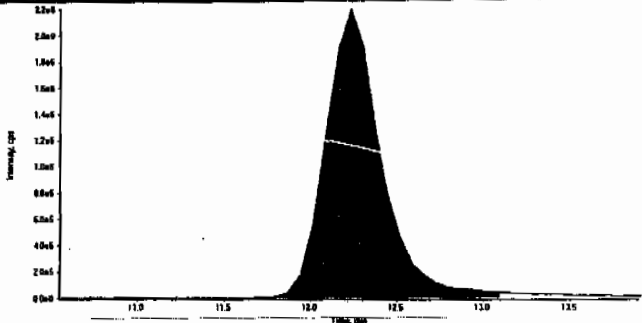
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

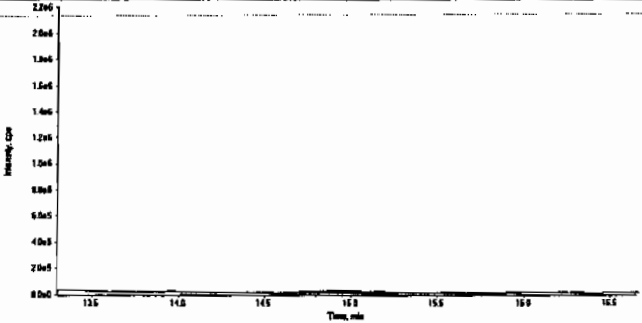
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

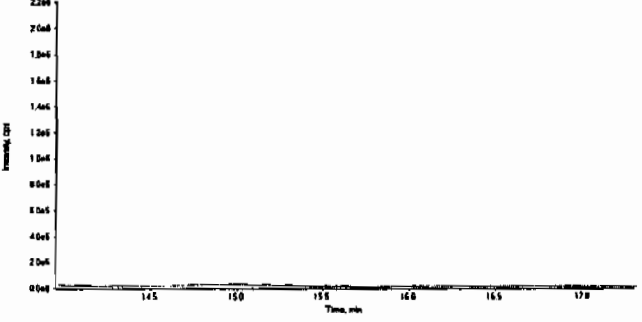
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330027.wiff	Acquisition Date	3/30/2010 8:03:35 PM
Sample Name	247193004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.94e+007
	Manual Modification	No
	Amount:	237. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	7.12e+005
	Manual Modification	No
	Amount:	4.40 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330027.wiff	Acquisition Date	3/30/2010 8:03:35 PM
Sample Name	247193004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

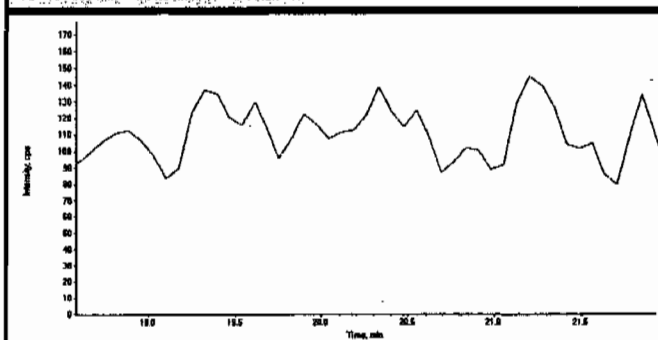
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

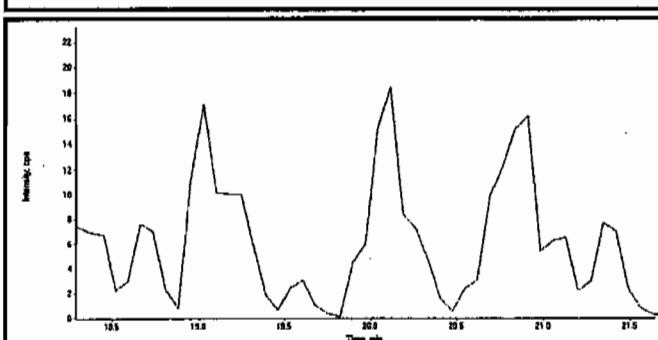
GEL Laboratories, LLC
 GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
 LCMSMS#3

Data File	EXP0330027.wiff	Acquisition Date	3/30/2010 8:03:35 PM
Sample Name	247193004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	20.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8189

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100089.wiff

Date Analyzed: 11-MAR-10 14:33

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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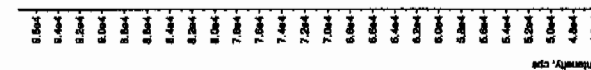
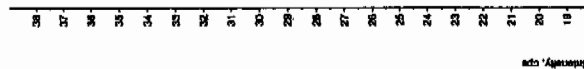
LC# 3/14/10

Sample Name: "247193004" Sample ID: "9843292" LER File: "EX503100069.wiff"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 2:33:26 PM
Modified: No

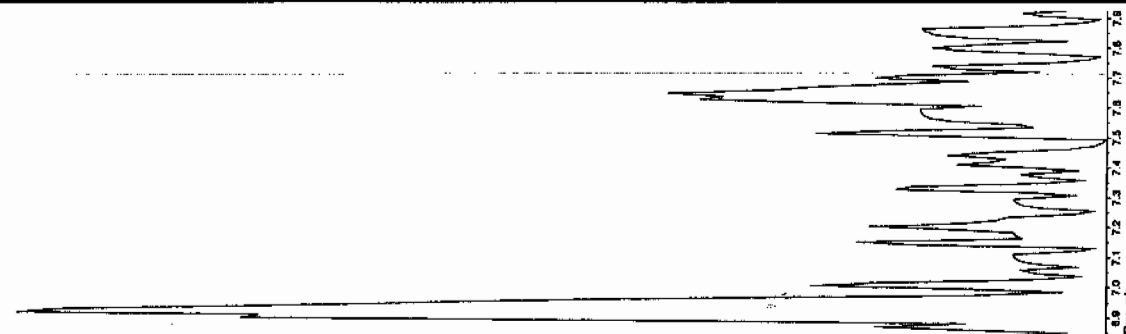


Sample Name: "247193004" Sample ID: "9843292" LER File: "EX503100069.wiff"

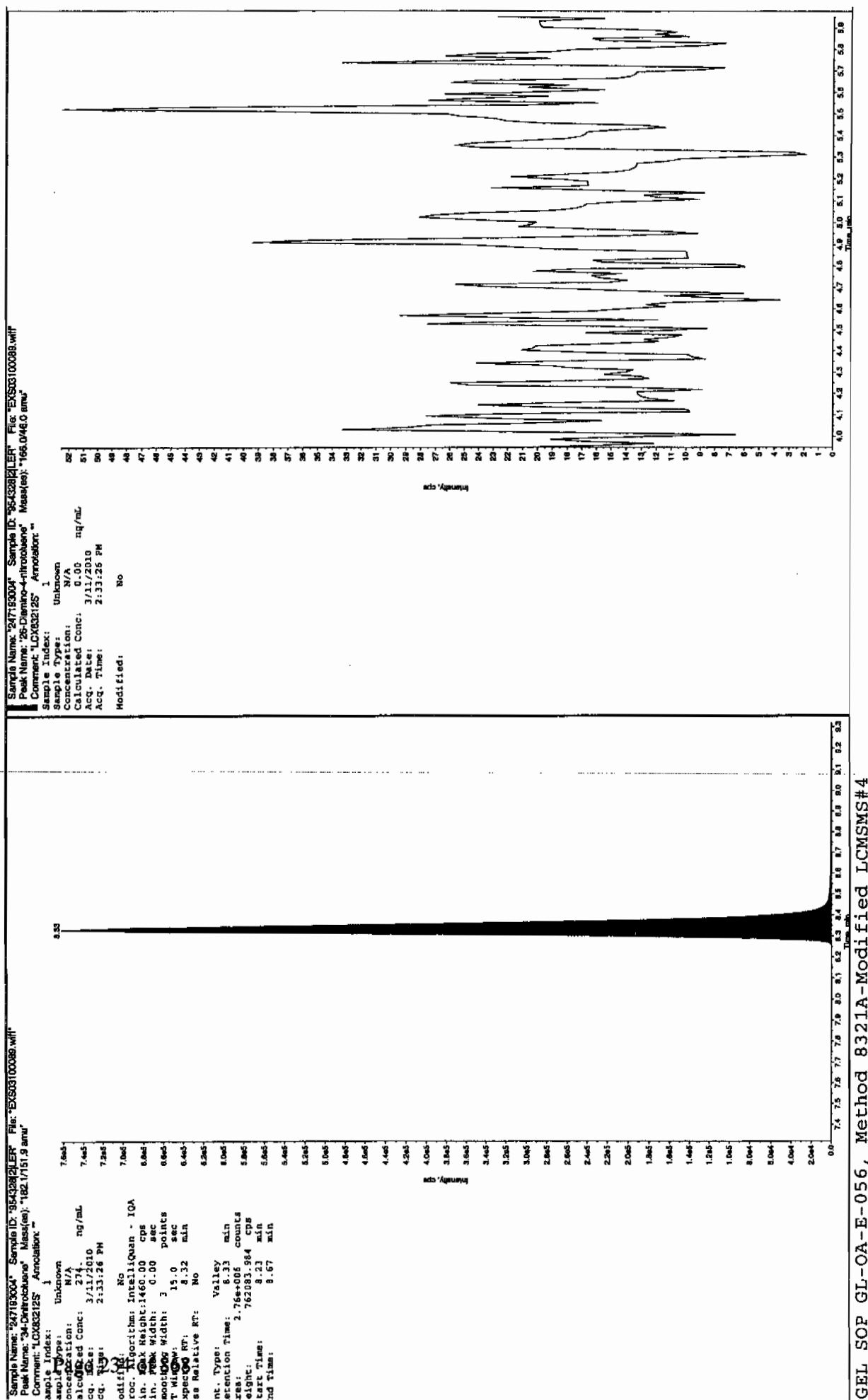
Peak Name: "35-Ombroline" Mass(es): "182.046.0 amu"

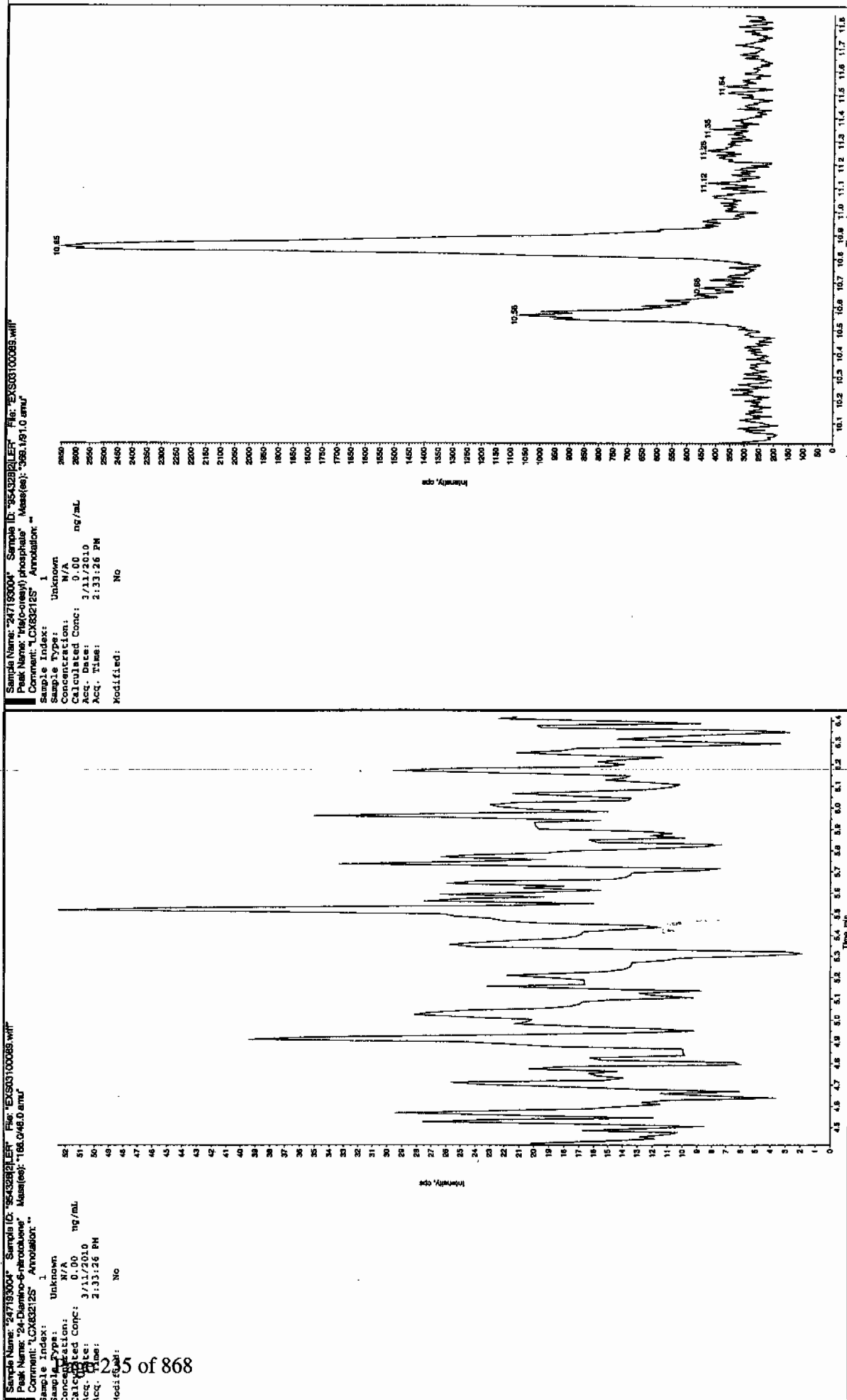
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 2:33:26 PM
Modified: No



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





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8188

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330028.wiff

Date Analyzed: 30-MAR-10 20:29

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

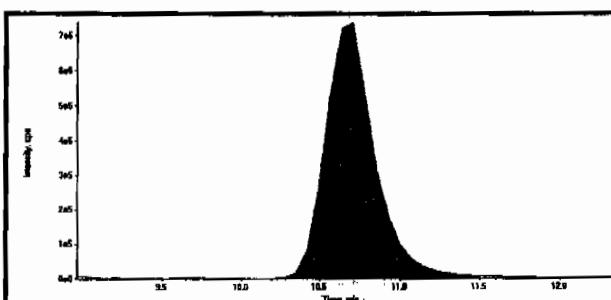
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

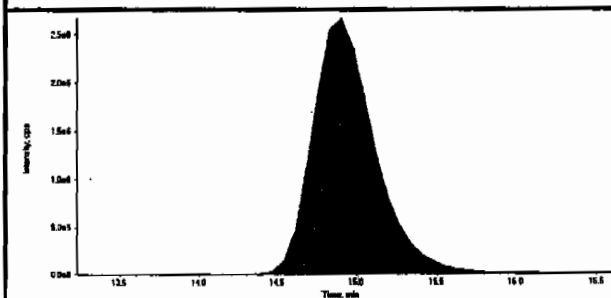
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330028.wiff	Acquisition Date	3/30/2010 8:29:57 PM
Sample Name	247193005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



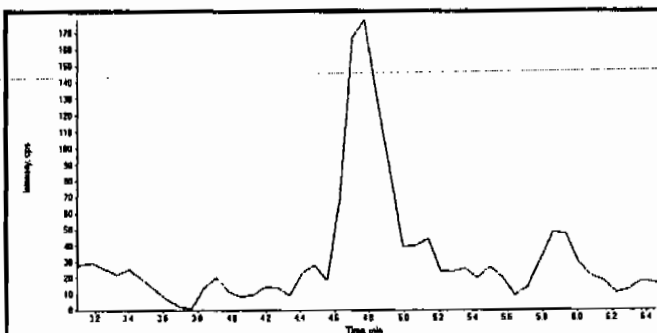
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	15900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

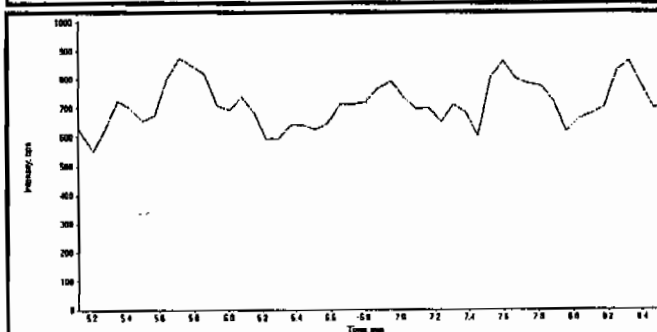


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	73100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
4/1/10
JAN
4/1/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330028.wiff	Acquisition Date	3/30/2010 8:29:57 PM
Sample Name	247193005	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

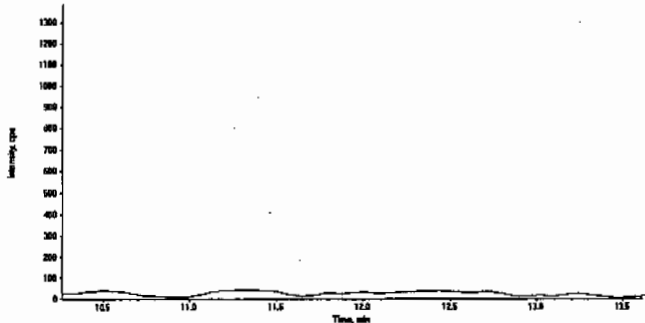
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

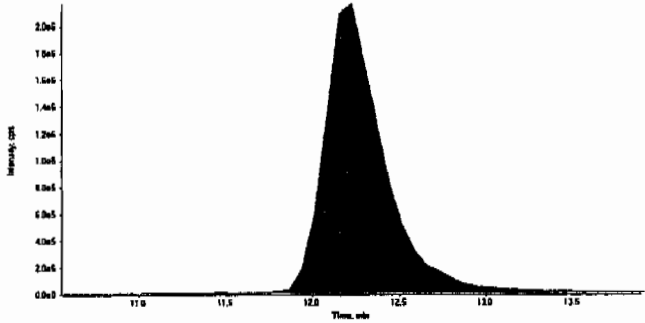
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

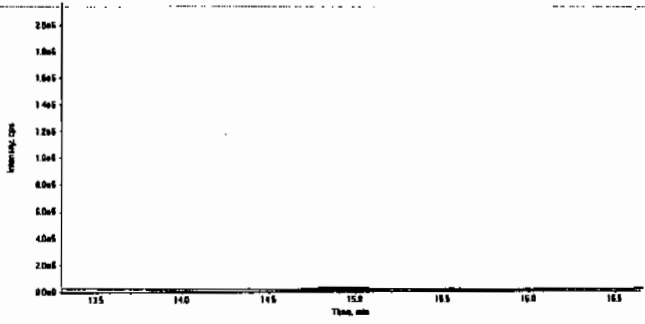
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

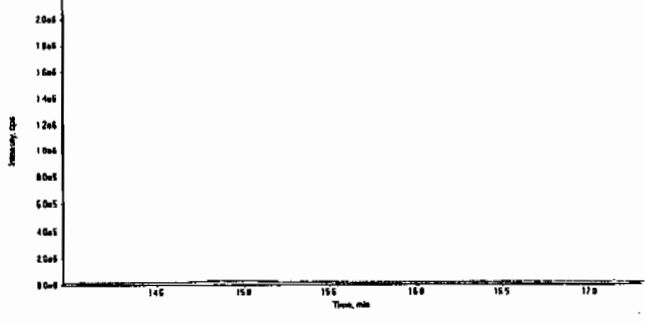
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LCMSMS#3

Data File	EXP0330028.wiff	Acquisition Date	3/30/2010 8:29:57 PM
Sample Name	247193005	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	5.13e+007
	Manual Modification	No
	Amount:	301. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	5.97e+005
	Manual Modification	No
	Amount:	4.52 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330028.wiff	Acquisition Date	3/30/2010 8:29:57 PM
Sample Name	247193005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330028.wiff	Acquisition Date	3/30/2010 8:29:57 PM
Sample Name	247193005	Acquisition Method	8321_prtx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8188

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100090.wiff

Date Analyzed: 11-MAR-10 14:49

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 =

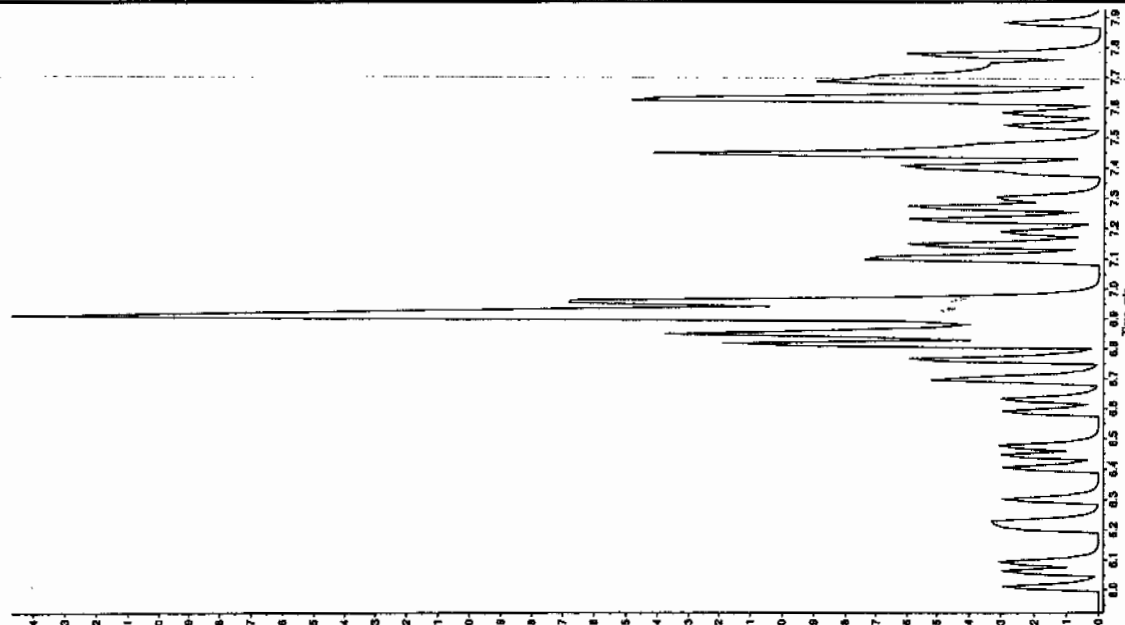
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Scan 3/14/10

Sample Name: "247193005" Sample ID: "95432821" File: "EX5031000901.wif"
 Peak Name: "TATB" Mass(es): "257.2204.8 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Scheduled Conc: 3/13/2010
 Acq. Date: 2:49:09 PM
 Modified: No

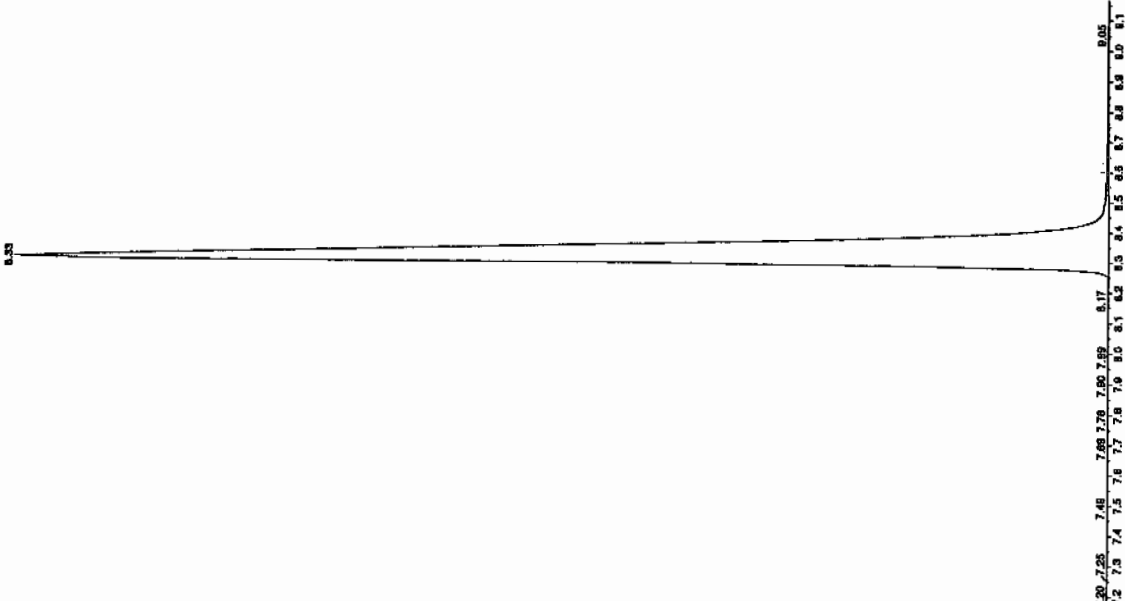
Intensity, cps



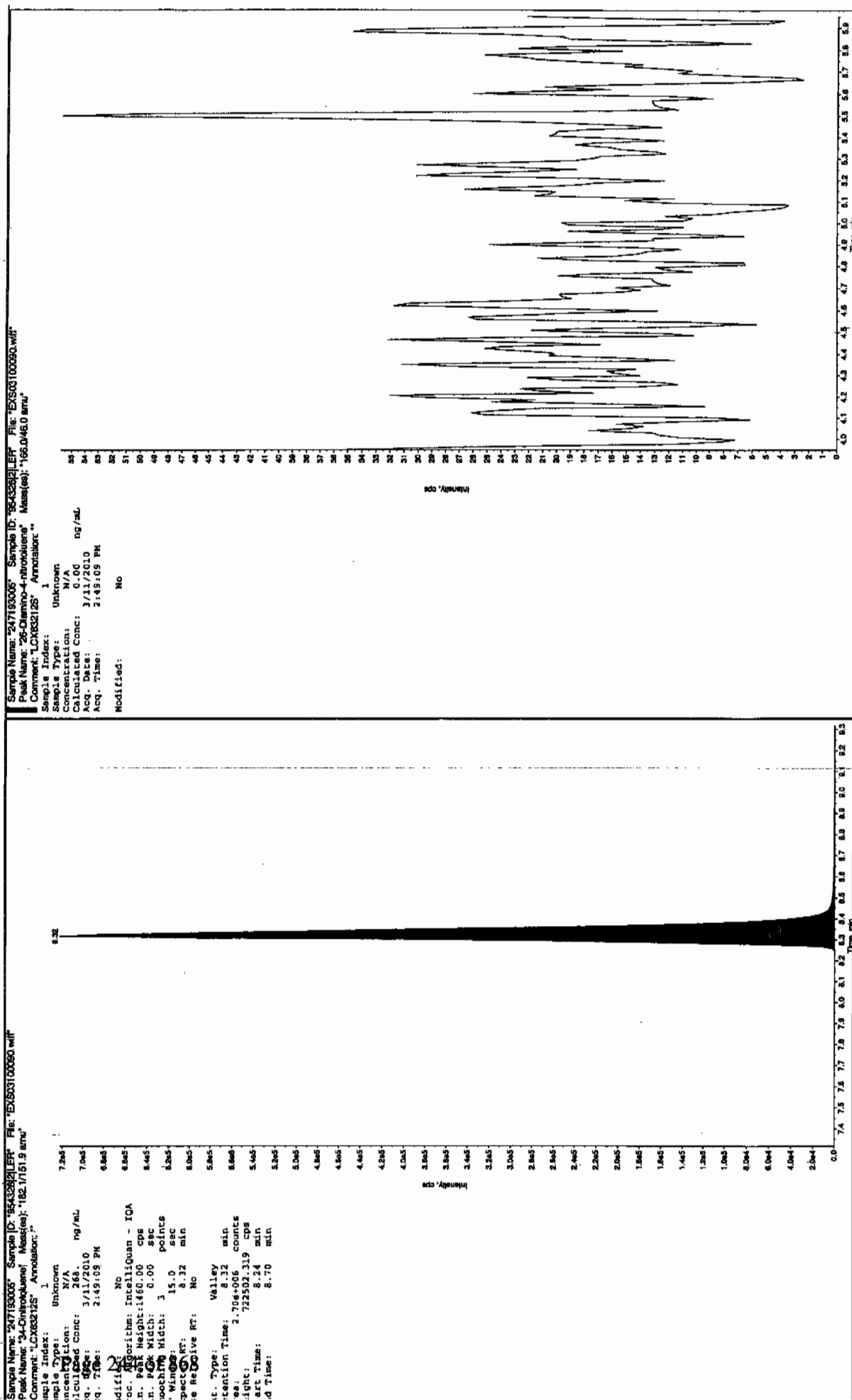
Sample Name: "247193005" Sample ID: "95432821" File: "EX5031000901.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: "

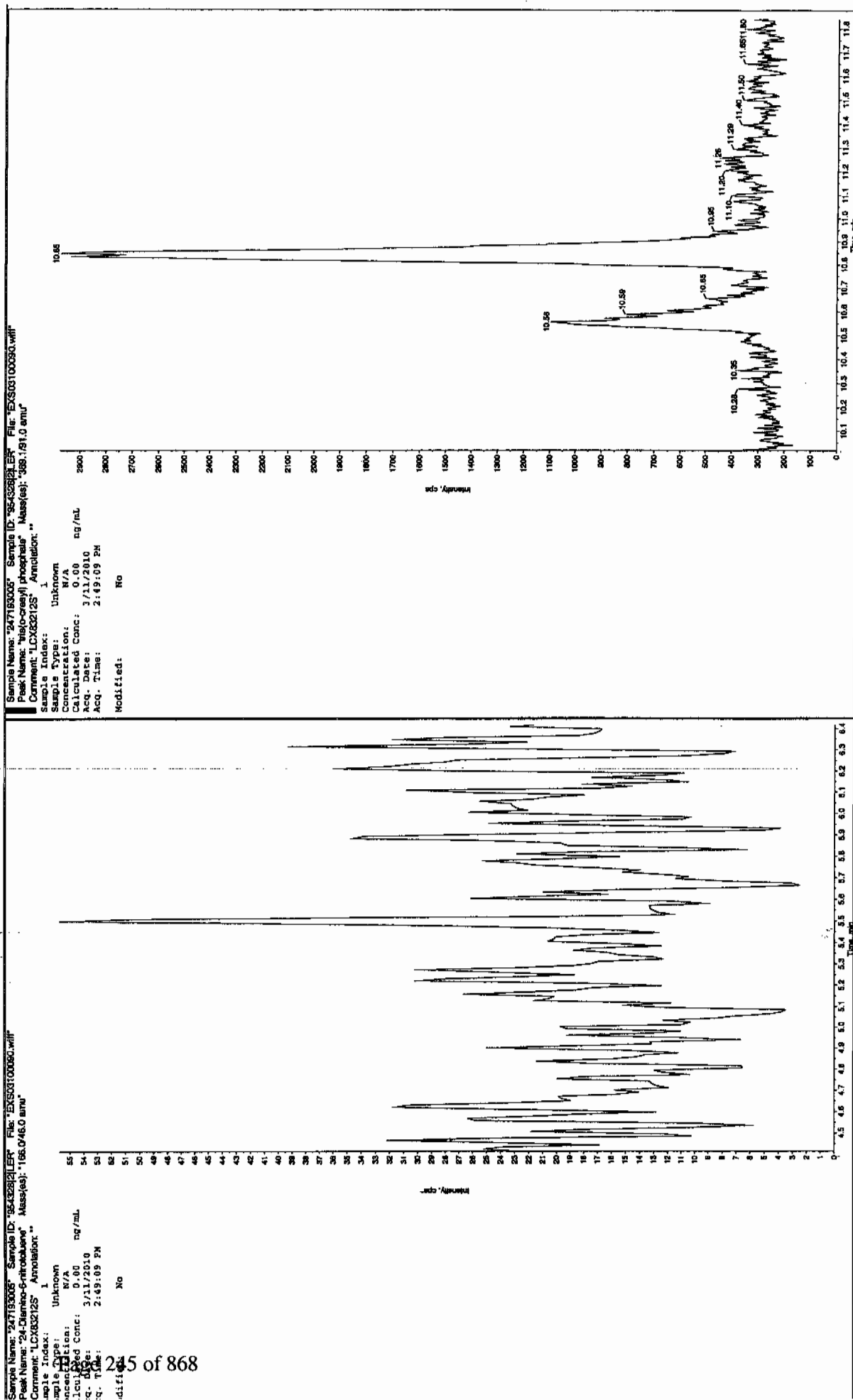
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Scheduled Conc: 3/13/2010
 Acq. Date: 2:49:09 PM
 Modified: No

Intensity, cps



Scan 3/14/10





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8187

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330029.wiff

Date Analyzed: 30-MAR-10 20:56

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

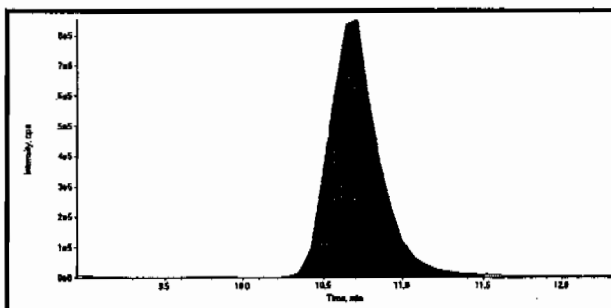
*Concentration =

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

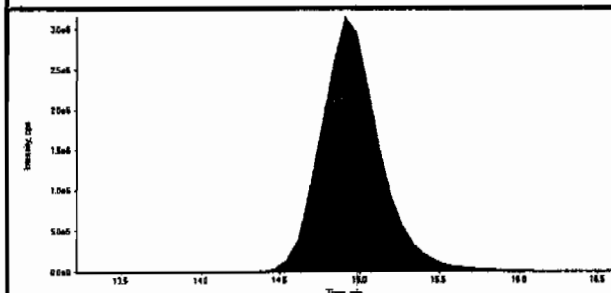
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

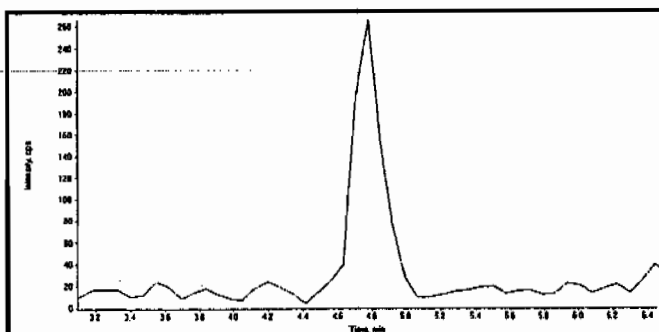
Data File	EXP0330029.wiff	Acquisition Date	3/30/2010 8:56:18 PM
Sample Name	247193006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



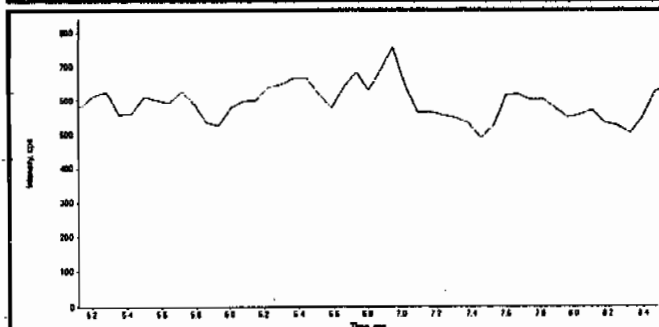
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	18600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	80800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



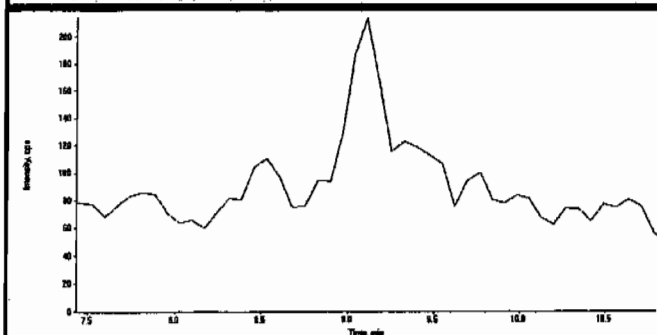
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
HMX 4/12/10
RDX 4/12/10

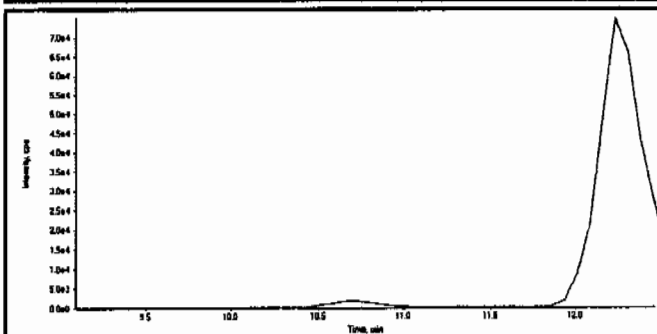
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

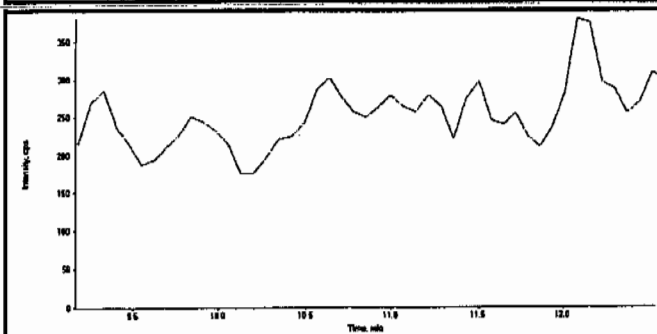
Data File	EXP0330029.wiff	Acquisition Date	3/30/2010 8:56:18 PM
Sample Name	247193006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



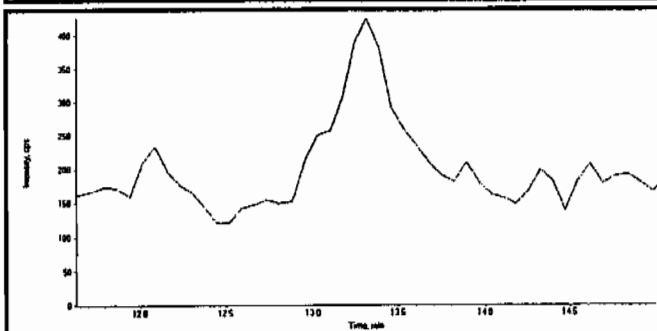
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	9.12
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

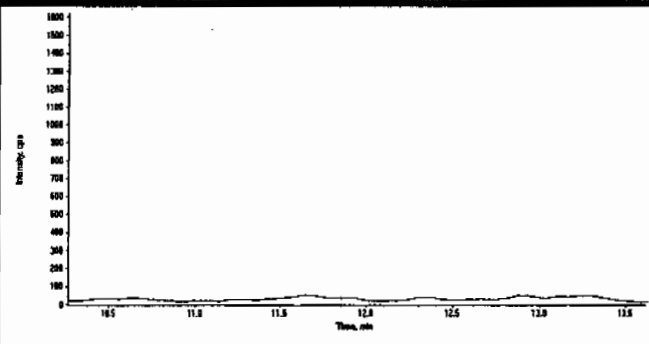


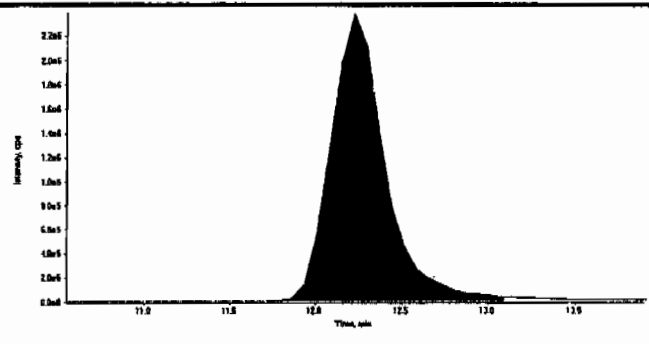
Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

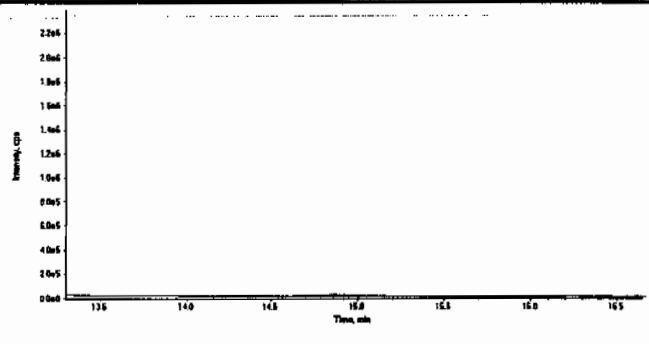
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

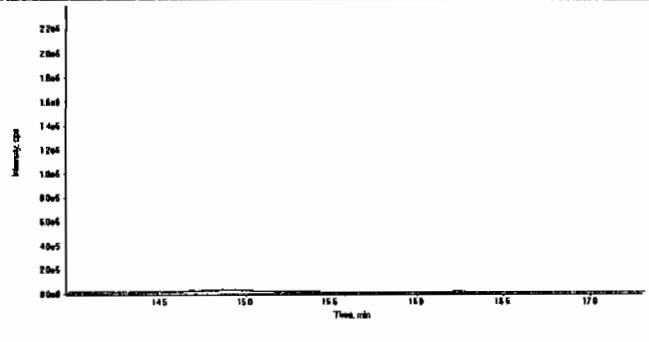
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330029.wiff	Acquisition Date	3/30/2010 8:56:18 PM
Sample Name	247193006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	5.19e+007
	Manual Modification	No
	Amount:	276. (ng/mL)
	% Accuracy:	N/A

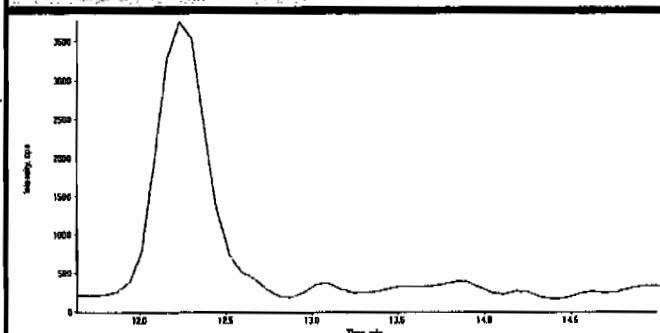
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.9
	Area Counts:	5.65e+005
	Manual Modification	No
	Amount:	3.87 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

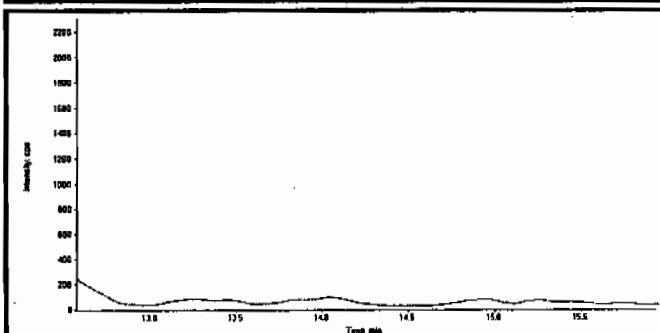
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

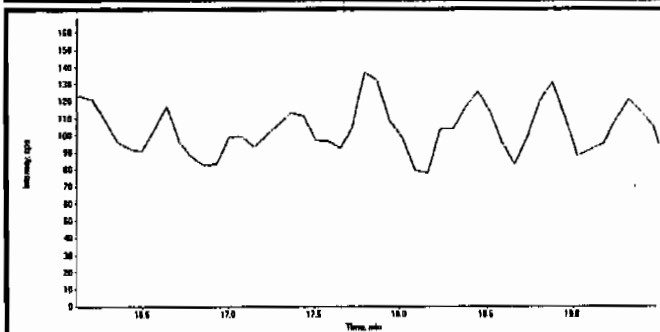
Data File	EXP0330029.wiff	Acquisition Date	3/30/2010 8:56:18 PM
Sample Name	247193006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



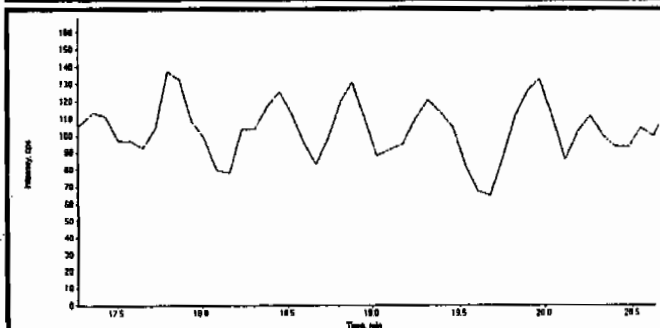
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330029.wiff	Acquisition Date	3/30/2010 8:56:18 PM
Sample Name	247193006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8187

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100091.wiff

Date Analyzed: 11-MAR-10 15:04

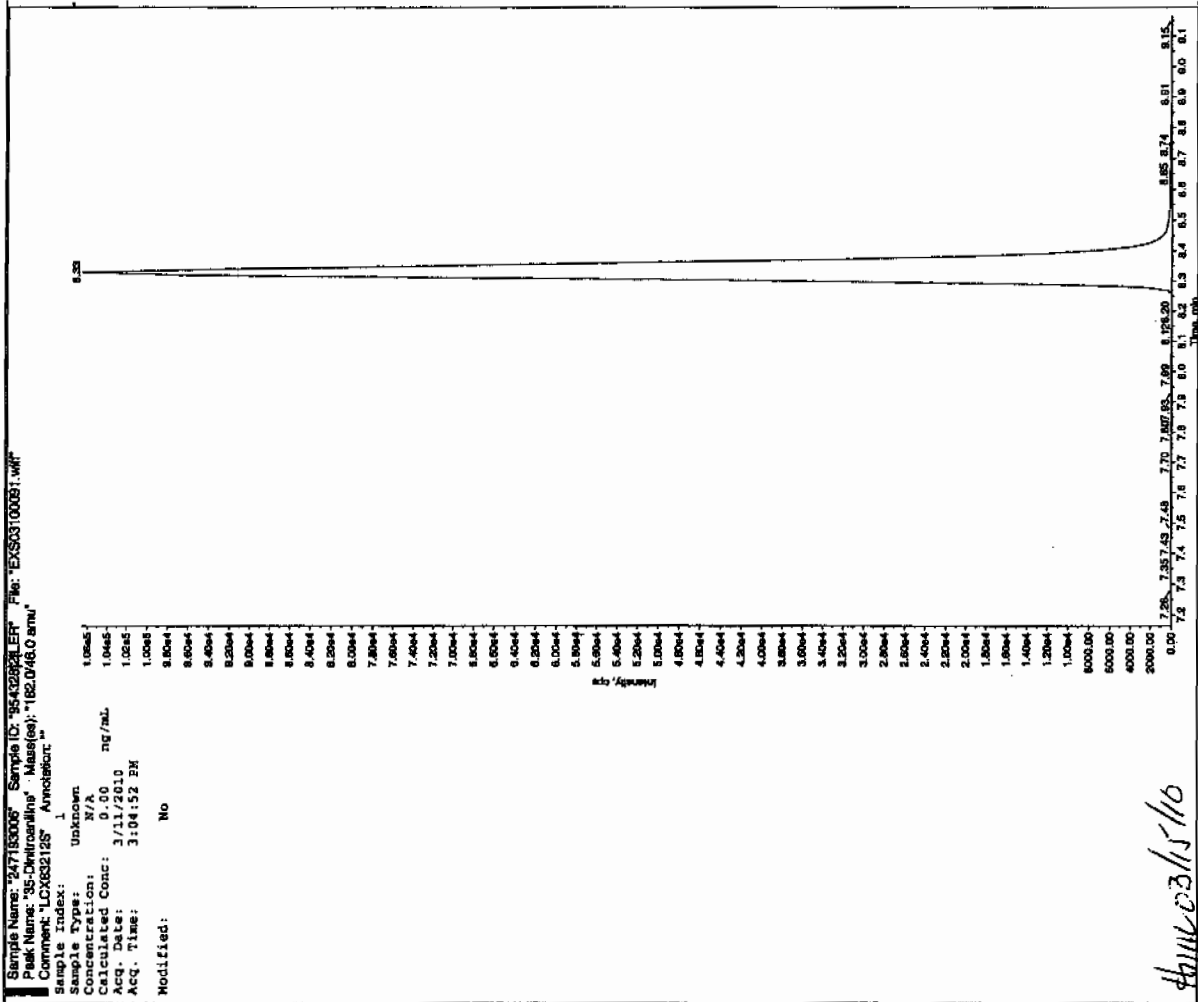
Units: ug/kg

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

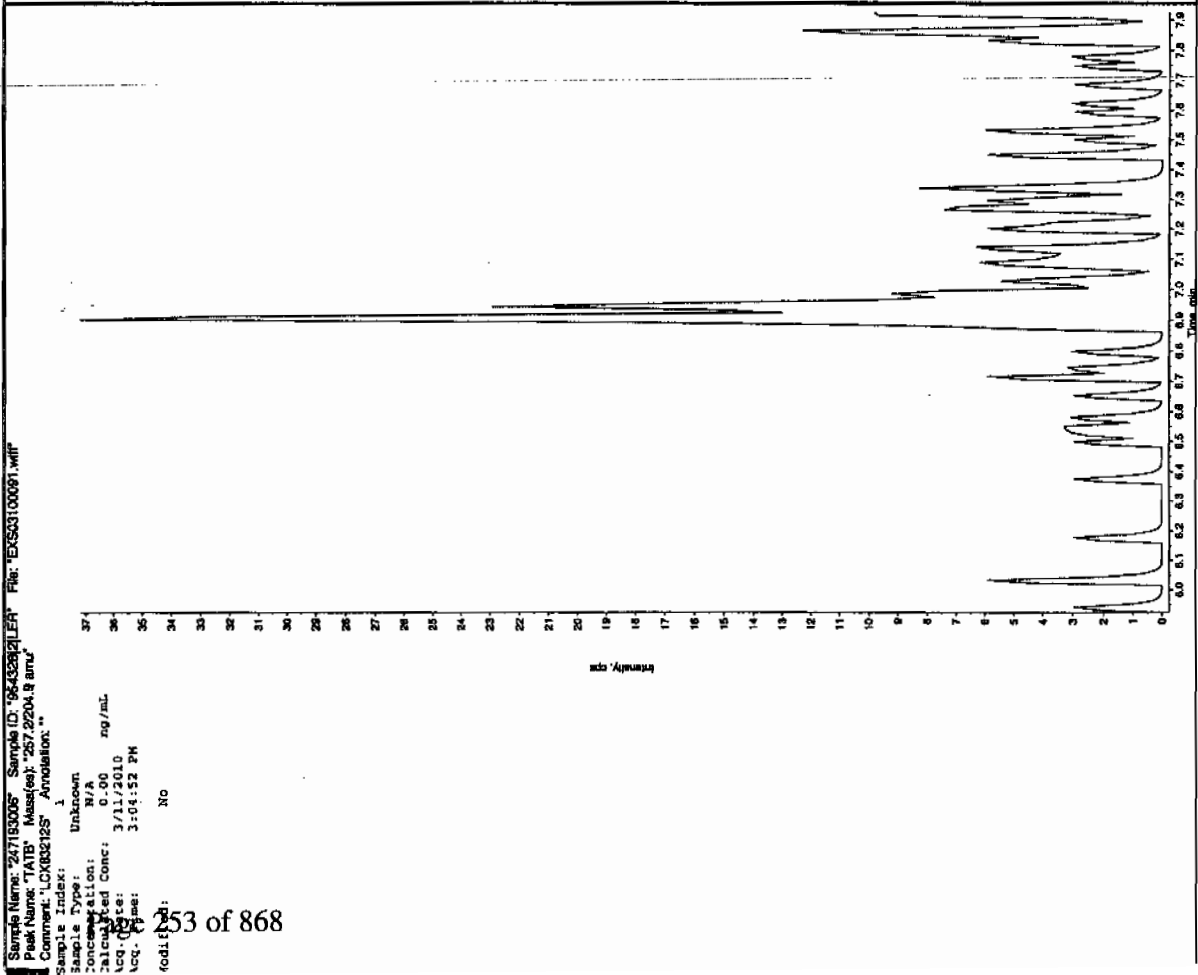
*Concentration =

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

dan 3/14/10

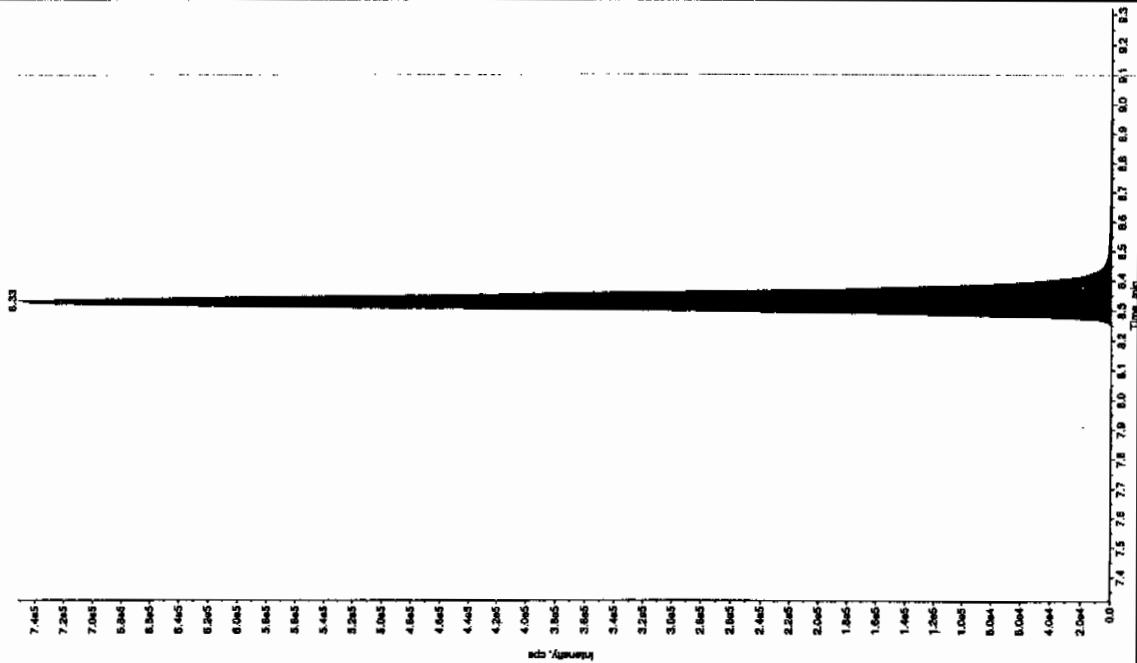


dan 03/15/10



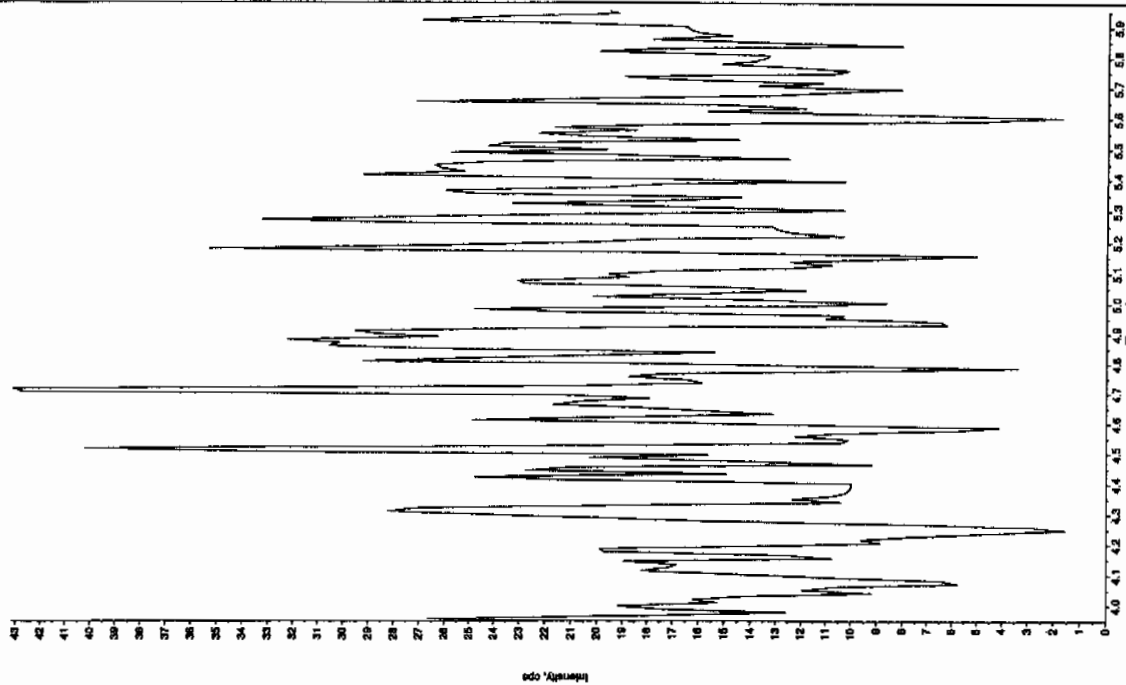
Sample Name: "247183006" Sample ID: "954328212" File: "EX503100091.wif"
 Peak Name: "247183006" Mass(es): "162.1151.9 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 281.0 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 3/11/2010
 Acq. Time: 3:04:52 PM
 Modified: No
 roc. Algorithm: IntelliQan - IOA
 in. Peak Height: 1460.00 cps
 in. Peak Width: 0.00 sec
 smoothing Width: 3 points
 T Window: 15.0 sec
 Aspect Ratio: 8.32 min
 se Relative RT: No
 nt. Type: Valley
 retention Time: 8.33 min
 rea: 2.82e006 counts
 eight: 751522.339 cps
 tart Time: 8.24 min
 nd Time: 8.67 min



Sample Name: "247183006" Sample ID: "954328212" File: "EX503100091.wif"
 Peak Name: "247183006" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 3/11/2010
 Acq. Time: 3:08:52 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8197

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330030.wiff

Date Analyzed: 30-MAR-10 21:22

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

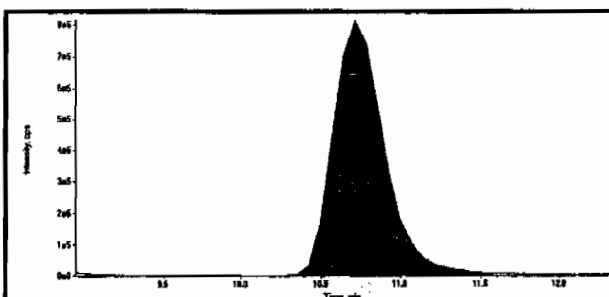
*Concentration =

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

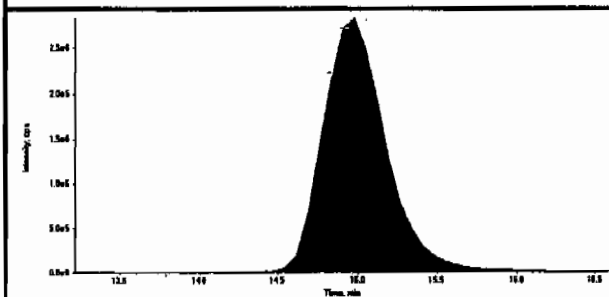
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

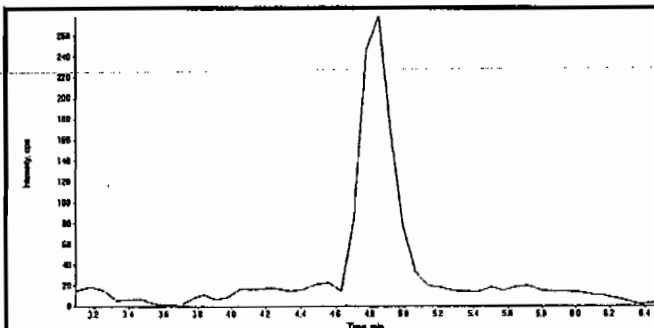
Data File	EXP0330030.wiff	Acquisition Date	3/30/2010 9:22:42 PM
Sample Name	247193007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



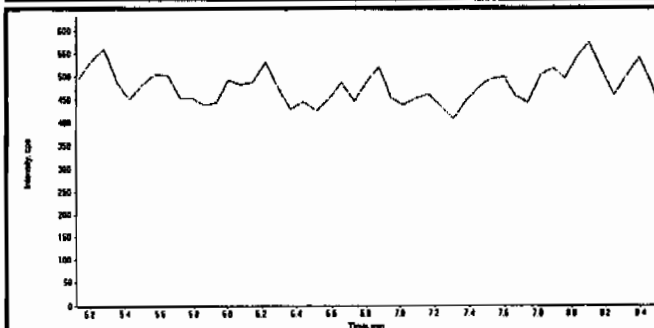
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	18400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	15.00
Area Counts:	78400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
HMX 4/6/10
RDX 4/6/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330030.wiff	Acquisition Date	3/30/2010 9:22:42 PM
Sample Name	247193007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

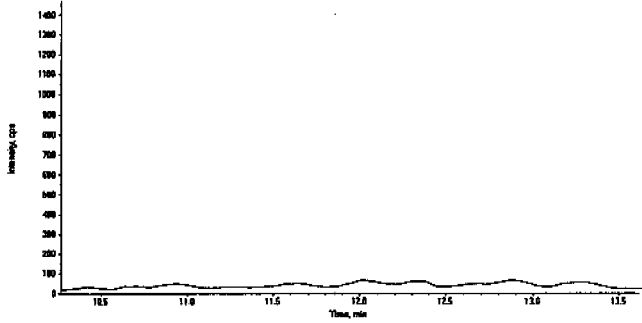
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

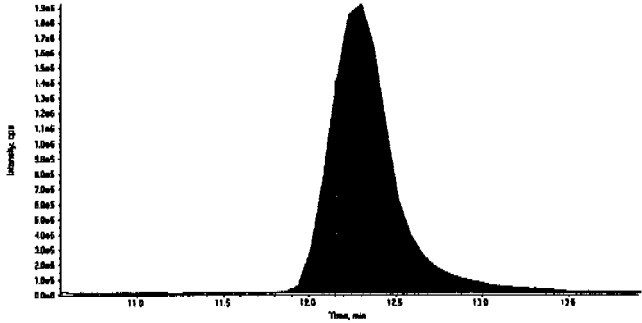
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

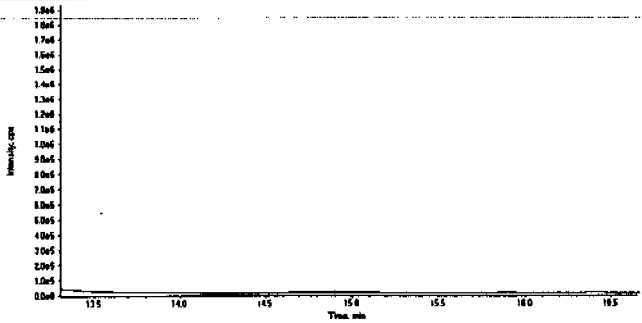
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

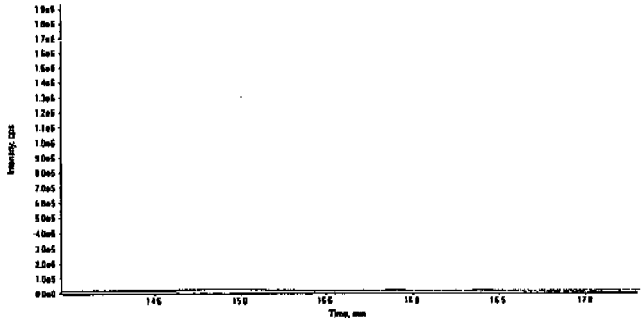
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330030.wiff	Acquisition Date	3/30/2010 9:22:42 PM
Sample Name	247193007	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.3
	Area Counts:	4.82e+007
	Manual Modification	No
	Amount:	264. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	5.84e+005
	Manual Modification	No
	Amount:	4.12 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330030.wiff	Acquisition Date	3/30/2010 9:22:42 PM
Sample Name	247193007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

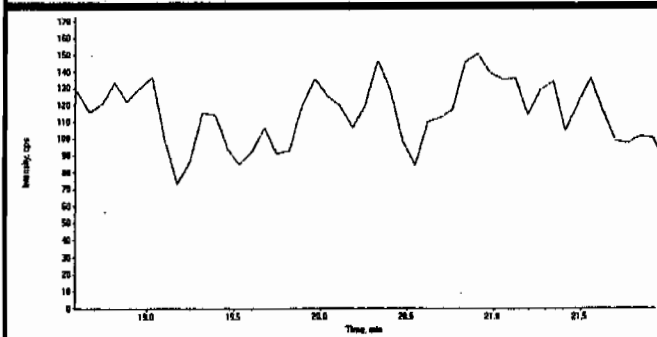
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

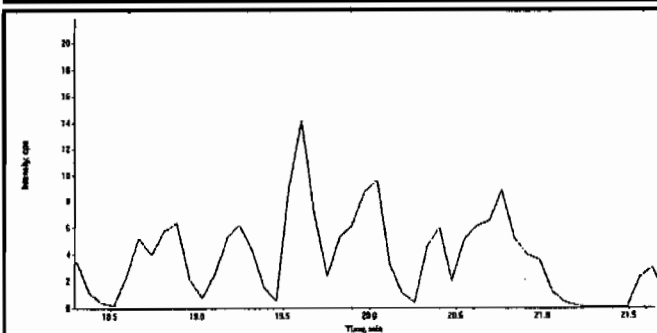
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330030.wiff	Acquisition Date	3/30/2010 9:22:42 PM
Sample Name	247193007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	20.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8197

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100095.wiff

Date Analyzed: 11-MAR-10 16:07

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

Len 3/14/10

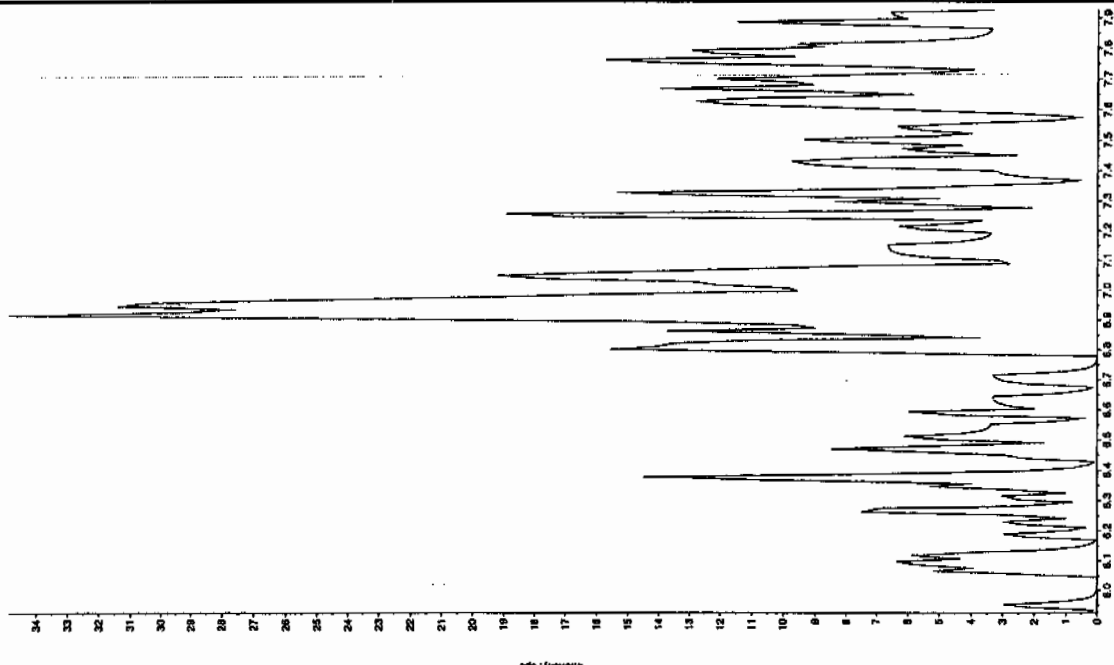
Sample Name: '247183007' Sample ID: '56432821ER' File: 'EX503100066.wif'

Peak Name: '1A1B' Mass(es): '257.2204.9 amu'

Comment: 'LCX83212S' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 4:07:41 PM
 Modified: No

203 of 868

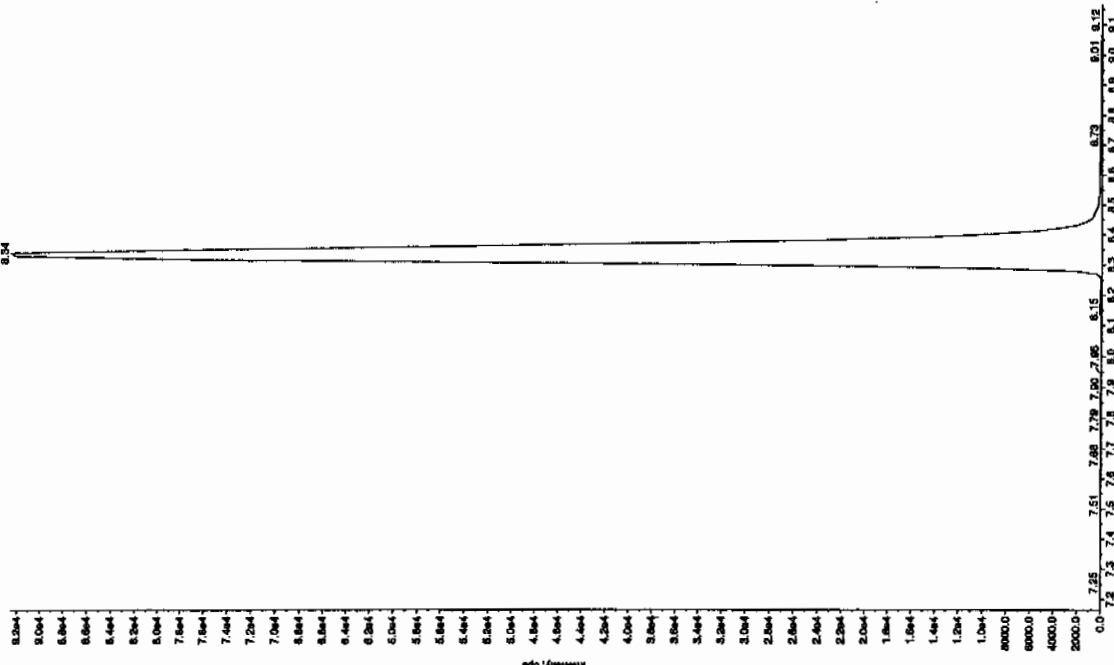


Sample Name: '247183007' Sample ID: '56432821ER' File: 'EX503100065.wif'

Peak Name: '3C-Dinitrobenzidine' Mass(es): '182.046.0 amu'

Comment: 'LCX83212S' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 4:07:41 PM
 Modified: No



Len 03/11/10



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8190

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193008

Sample Amount 2

Moisture: .9

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330031.wiff

Date Analyzed: 30-MAR-10 21:49

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

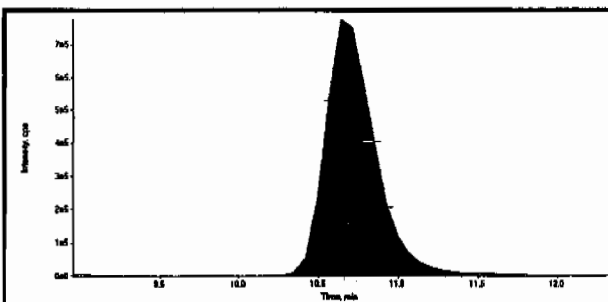
*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

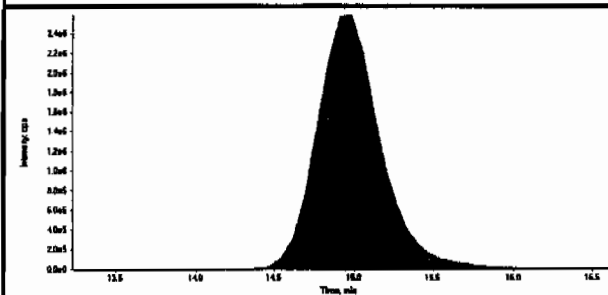
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

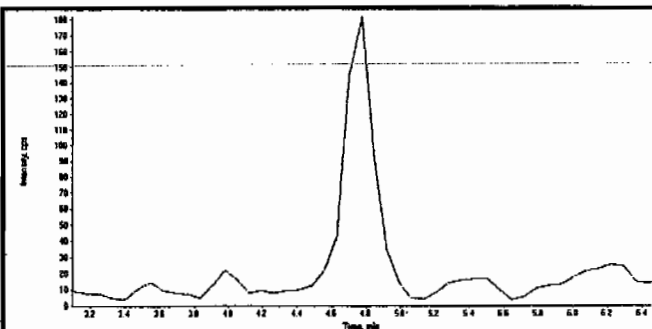
Data File	EXP0330031.wiff	Acquisition Date	3/30/2010 9:49:07 PM
Sample Name	247193008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



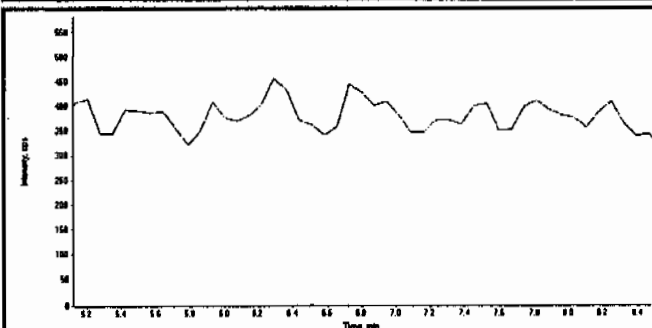
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	16800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	15.00
Area Counts:	72400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



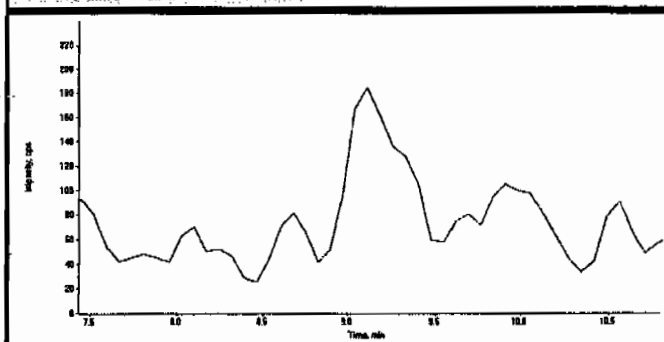
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
HMX
03/30/10
LER
4/2/10

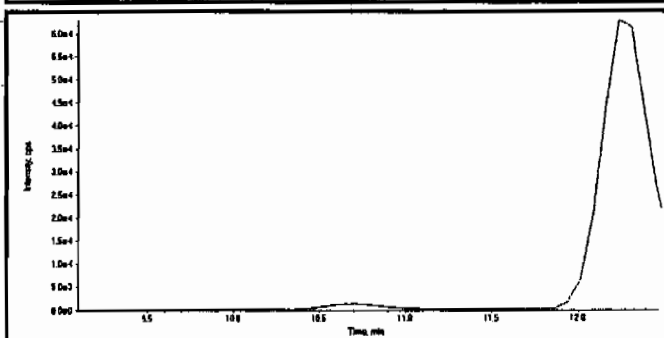
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

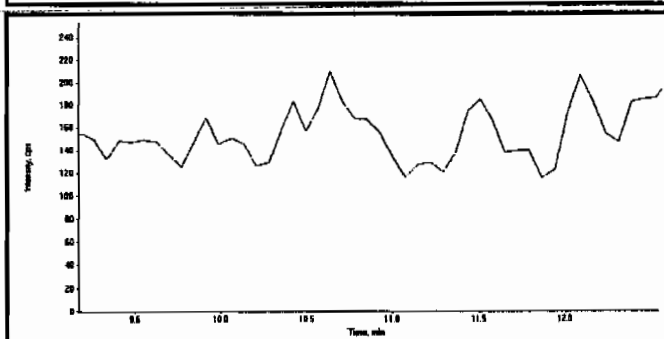
Data File	EXP0330031.wiff	Acquisition Date	3/30/2010 9:49:07 PM
Sample Name	247193008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



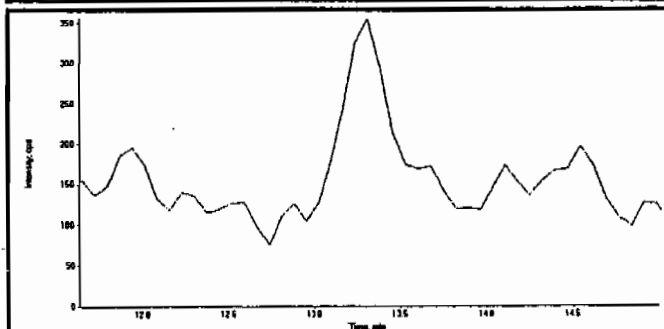
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	9.12
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

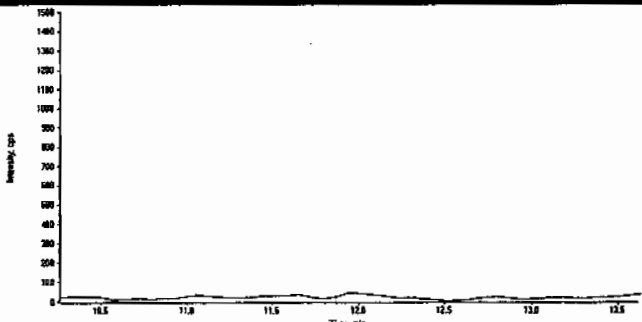


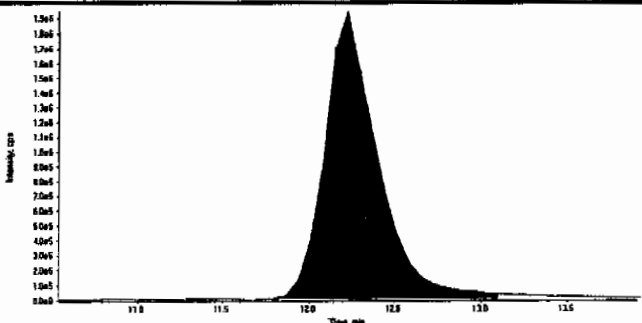
Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

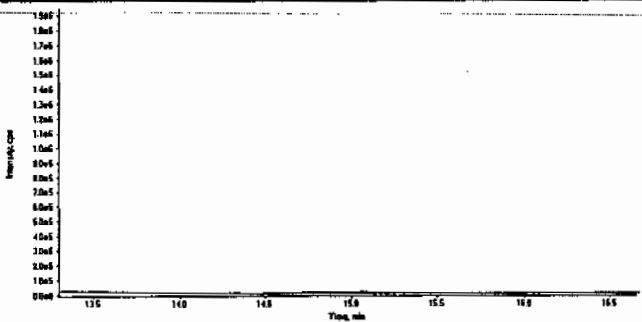
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

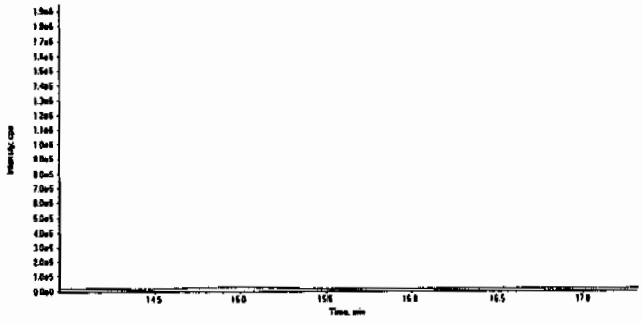
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330031.wiff	Acquisition Date	3/30/2010 9:49:07 PM
Sample Name	247193008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.19e+007
	Manual Modification	No
	Amount:	249. (ng/mL)
	% Accuracy:	N/A

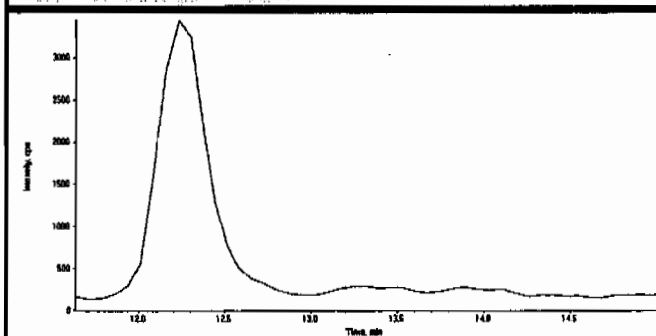
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	6.39e+005
	Manual Modification	No
	Amount:	4.88 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

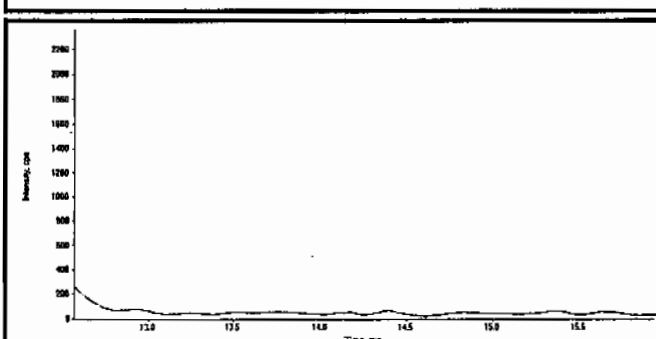
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

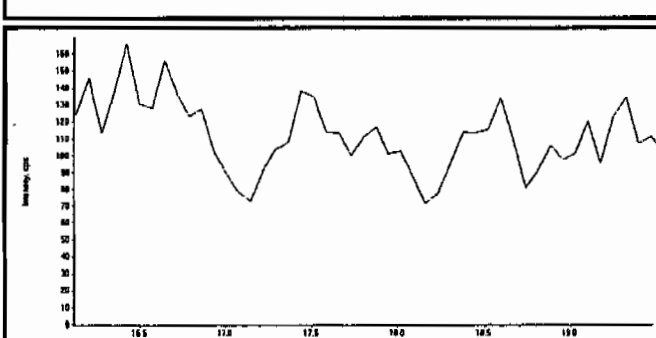
Data File	EXP0330031.wiff	Acquisition Date	3/30/2010 9:49:07 PM
Sample Name	247193008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



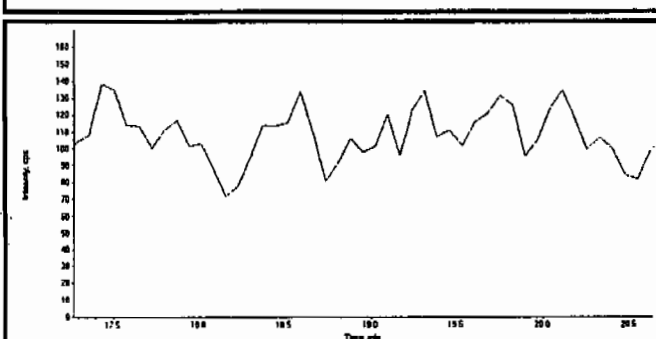
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330031.wiff	Acquisition Date	3/30/2010 9:49:07 PM
Sample Name	247193008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8190

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193008

Sample Amount 2

Moisture: .9

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100096.wiff

Date Analyzed: 11-MAR-10 16:23

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: "247193008" Sample ID: "9543282|LER" File: "EX503100095.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

Sample Name: "247183008" Sample ID: "954328121ER" File: "EXS03100096.wif"
Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"

Sample Name: "247193009" Sample ID:
Peak Name: "28-Diamino-4-nitrotoluene"
Comment: "LCX832125" Annotation: "

Sample Index: 1
Sample Type: Unknown

Sample Type:	Unknown
Concentration:	N/A

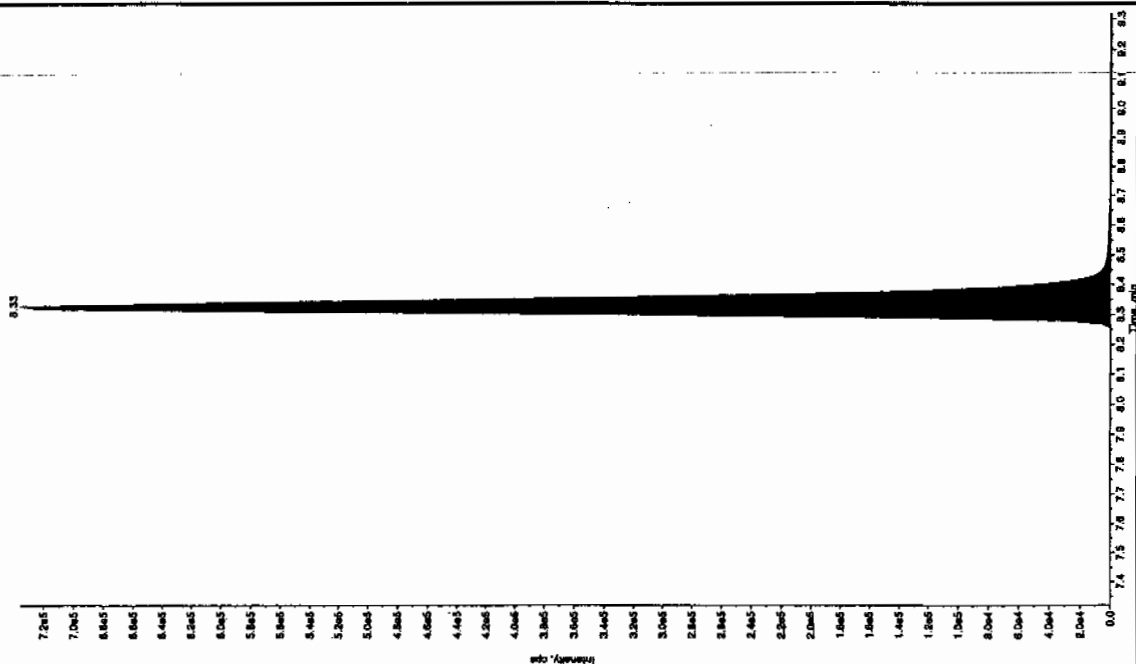
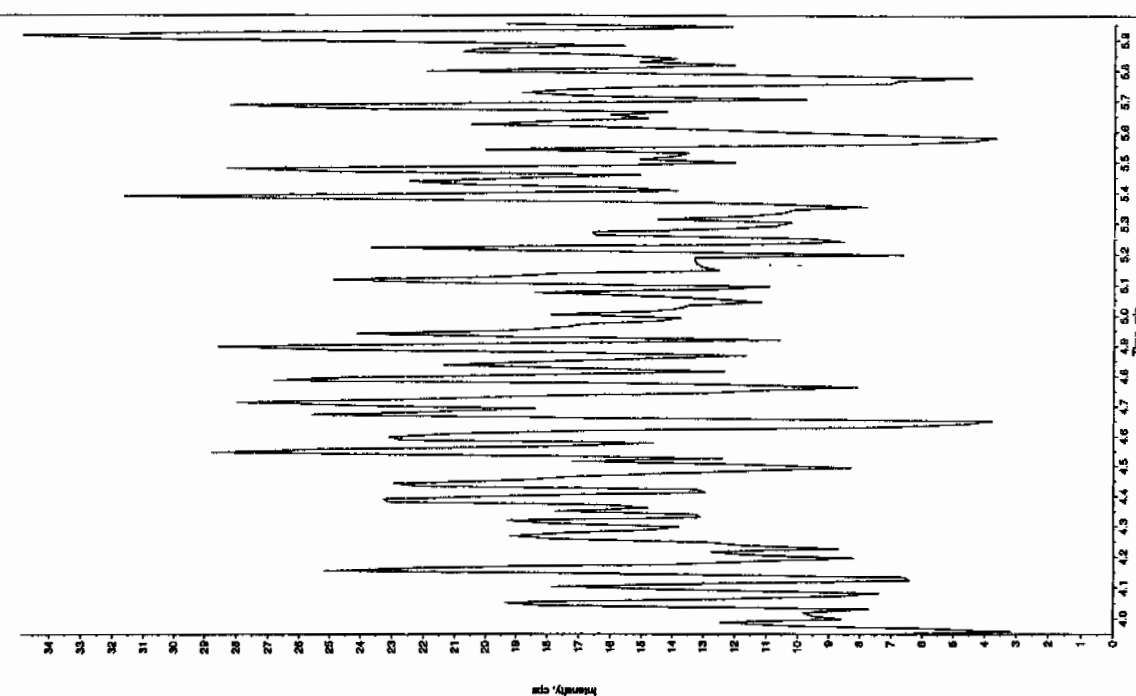
Concentration: N/A
Calculated Conc: 0.00

Calculated Conc: 0.00
Acq. Date: 3/11/201

Acq. Date: 3/11/201
Acq. Time: 4:23:23

Acq. Time: 4:23:23

Modified:	No
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Sample Name: "247193008" Sample ID: "954"
Peak Name: "3,4-Dinitrotoluene" Mass(es): "1"

Sample Name: "247193008" Sample ID: "9543282|LER" File: "EX503100095.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

Sample Name: "247193008" Sample ID:
Peak Name: "34-Dinitrotoluene" Mass(e
Comment: "LCX83212S" Annotation: "

Sample Index:	1
Sample Type:	Unknown

Sample Index:	Unknown
Sample Type:	N/A
Concentration:	

Concentration: N/A
Calculated Conc: 273.

Calculated Conc: 273.
 Date: 3/11/201

q. **File:** 3/11/201
q. **Time:** 4:23:23

q. Time: 4:23:23

267

Modified	No
oc. Algorithm: IntelliQuan - IQA	

```

oc. Algorithm: IntelliQuan - IQA
n. Peak Height: 1460.00 cps
n. Peak Width: 0.00 sec

```

```

n. peak Height:1460.00 cps
n. peak Width: 0.00 sec
n. peak Width: 3.00 sec

```

n. peak width:	0.00	sec
tooth width:	3	points
width:	15.0	sec

Wind: 15.0 sec
 Spectro RT: 8.32 min

Run	Time	RT	RT
1	0.32	0.32	No
2	0.32	0.32	No
3	0.32	0.32	No
4	0.32	0.32	No
5	0.32	0.32	No
6	0.32	0.32	No
7	0.32	0.32	No
8	0.32	0.32	No
9	0.32	0.32	No
10	0.32	0.32	No
11	0.32	0.32	No
12	0.32	0.32	No
13	0.32	0.32	No
14	0.32	0.32	No
15	0.32	0.32	No
16	0.32	0.32	No
17	0.32	0.32	No
18	0.32	0.32	No
19	0.32	0.32	No
20	0.32	0.32	No
21	0.32	0.32	No
22	0.32	0.32	No
23	0.32	0.32	No
24	0.32	0.32	No
25	0.32	0.32	No
26	0.32	0.32	No
27	0.32	0.32	No
28	0.32	0.32	No
29	0.32	0.32	No
30	0.32	0.32	No
31	0.32	0.32	No
32	0.32	0.32	No
33	0.32	0.32	No
34	0.32	0.32	No
35	0.32	0.32	No
36	0.32	0.32	No
37	0.32	0.32	No
38	0.32	0.32	No
39	0.32	0.32	No
40	0.32	0.32	No
41	0.32	0.32	No
42	0.32	0.32	No
43	0.32	0.32	No
44	0.32	0.32	No
45	0.32	0.32	No
46	0.32	0.32	No
47	0.32	0.32	No
48	0.32	0.32	No
49	0.32	0.32	No
50	0.32	0.32	No
51	0.32	0.32	No
52	0.32	0.32	No
53	0.32	0.32	No
54	0.32	0.32	No
55	0.32	0.32	No
56	0.32	0.32	No
57	0.32	0.32	No
58	0.32	0.32	No
59	0.32	0.32	No
60	0.32	0.32	No
61	0.32	0.32	No
62	0.32	0.32	No
63	0.32	0.32	No
64	0.32	0.32	No
65	0.32	0.32	No
66	0.32	0.32	No
67	0.32	0.32	No
68	0.32	0.32	No
69	0.32	0.32	No
70	0.32	0.32	No
71	0.32	0.32	No
72	0.32	0.32	No
73	0.32	0.32	No
74	0.32	0.32	No
75	0.32	0.32	No
76	0.32	0.32	No
77	0.32	0.32	No
78	0.32	0.32	No
79	0.32	0.32	No
80	0.32	0.32	No
81	0.32	0.32	No
82	0.32	0.32	No
83	0.32	0.32	No
84	0.32	0.32	No
85	0.32	0.32	No
86	0.32	0.32	No
87	0.32	0.32	No
88	0.32	0.32	No
89	0.32	0.32	No
90	0.32	0.32	No
91	0.32	0.32	No
92	0.32	0.32	No
93	0.32	0.32	No
94	0.32	0.32	No
95	0.32	0.32	No
96	0.32	0.32	No
97	0.32	0.32	No
98	0.32	0.32	No
99	0.32	0.32	No

Peak No.	Retention Time (min)	Area	Area%	Height	Height%	RT (min)	RT (min)
1	1.12	1.0	0.01	1.0	0.01	1.12	1.12
2	1.12	1.0	0.01	1.0	0.01	1.12	1.12
3	1.12	1.0	0.01	1.0	0.01	1.12	1.12
4	1.12	1.0	0.01	1.0	0.01	1.12	1.12
5	1.12	1.0	0.01	1.0	0.01	1.12	1.12
6	1.12	1.0	0.01	1.0	0.01	1.12	1.12
7	1.12	1.0	0.01	1.0	0.01	1.12	1.12
8	1.12	1.0	0.01	1.0	0.01	1.12	1.12
9	1.12	1.0	0.01	1.0	0.01	1.12	1.12
10	1.12	1.0	0.01	1.0	0.01	1.12	1.12
11	1.12	1.0	0.01	1.0	0.01	1.12	1.12
12	1.12	1.0	0.01	1.0	0.01	1.12	1.12
13	1.12	1.0	0.01	1.0	0.01	1.12	1.12
14	1.12	1.0	0.01	1.0	0.01	1.12	1.12
15	1.12	1.0	0.01	1.0	0.01	1.12	1.12
16	1.12	1.0	0.01	1.0	0.01	1.12	1.12
17	1.12	1.0	0.01	1.0	0.01	1.12	1.12
18	1.12	1.0	0.01	1.0	0.01	1.12	1.12
19	1.12	1.0	0.01	1.0	0.01	1.12	1.12
20	1.12	1.0	0.01	1.0	0.01	1.12	1.12
21	1.12	1.0	0.01	1.0	0.01	1.12	1.12
22	1.12	1.0	0.01	1.0	0.01	1.12	1.12
23	1.12	1.0	0.01	1.0	0.01	1.12	1.12
24	1.12	1.0	0.01	1.0	0.01	1.12	1.12
25	1.12	1.0	0.01	1.0	0.01	1.12	1.12
26	1.12	1.0	0.01	1.0	0.01	1.12	1.12
27	1.12	1.0	0.01	1.0	0.01	1.12	1.12
28	1.12	1.0	0.01	1.0	0.01	1.12	1.12
29	1.12	1.0	0.01	1.0	0.01	1.12	1.12
30	1.12	1.0	0.01	1.0	0.01	1.12	1.12
31	1.12	1.0	0.01	1.0	0.01	1.12	1.12
32	1.12	1.0	0.01	1.0	0.01	1.12	1.12
33	1.12	1.0	0.01	1.0	0.01	1.12	1.12
34	1.12	1.0	0.01	1.0	0.01	1.12	1.12
35	1.12	1.0	0.01	1.0	0.01	1.12	1.12
36	1.12	1.0	0.01	1.0	0.01	1.12	1.12
37	1.12	1.0	0.01	1.0	0.01	1.12	1.12
38	1.12	1.0	0.01	1.0	0.01	1.12	1.12
39	1.12	1.0	0.01	1.0	0.01	1.12	1.12
40	1.12	1.0	0.01	1.0	0.01	1.12	1.12
41	1.12	1.0	0.01	1.0	0.01	1.12	1.12
42	1.12	1.0	0.01	1.0	0.01	1.12	1.12
43	1.12	1.0	0.01	1.0	0.01	1.12	1.12
44	1.12	1.0	0.01	1.0	0.01	1.12	1.12
45	1.12	1.0	0.01	1.0	0.01	1.12	1.12
46	1.12	1.0	0.01	1.0	0.01	1.12	1.12
47	1.12	1.0	0.01	1.0	0.01	1.12	1.12
48	1.12	1.0	0.01	1.0	0.01	1.12	1.12
49	1.12	1.0	0.				

t. Type: valley

at. Type:	valley
Attention Time:	8.33 min

```

Attention Time: 8.33 min
              2.74e+006 counts

```

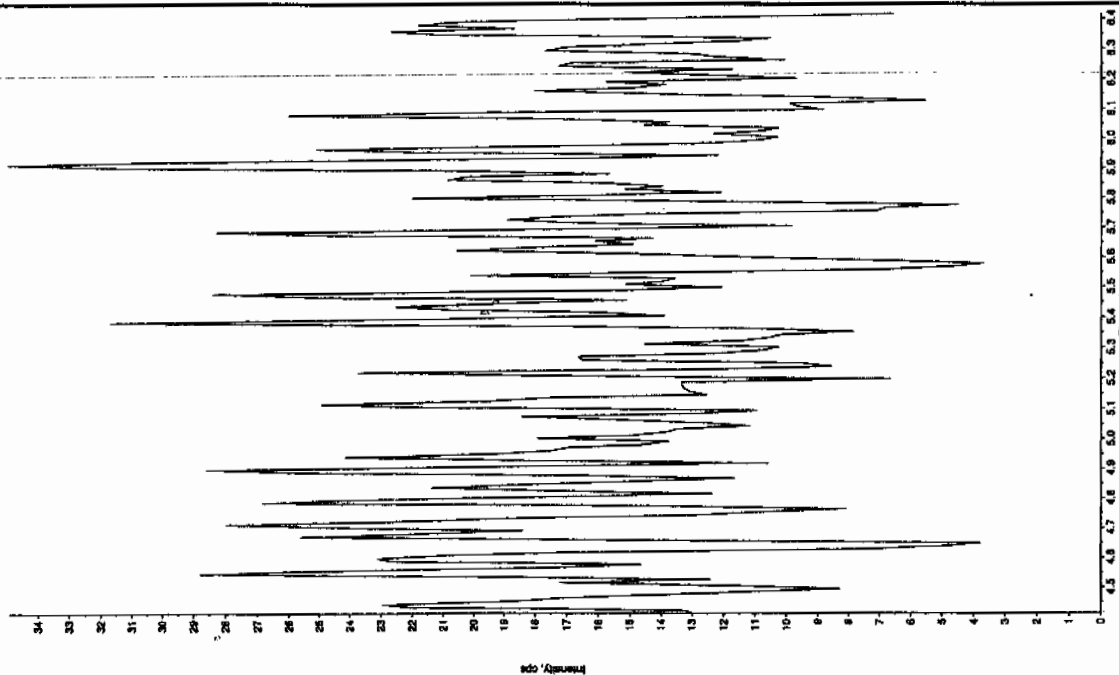
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      2.74e+006 counts
      light: 735850.708 cps

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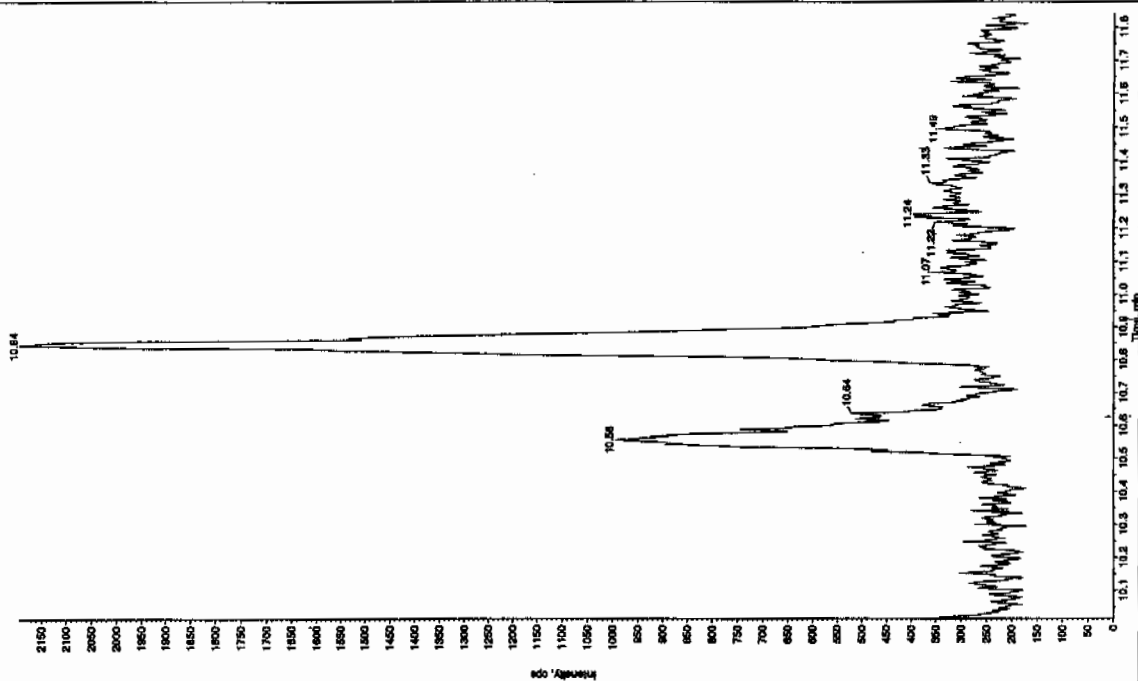
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 Peak Name: "24-O-amino-5-nitrotoluene" Mass(es): "156.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 4:23:23 PM
 Modified: No



Sample Name: "247193008" Sample ID: "66432821LER" File: "EX503100086.wif"
 Peak Name: "tris(cresyl) phosphite" Mass(es): "389.1791.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 4:23:23 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8193

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330032.wiff

Date Analyzed: 30-MAR-10 22:15

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

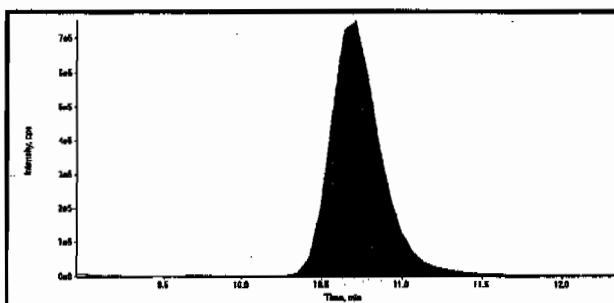
*Concentration =

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

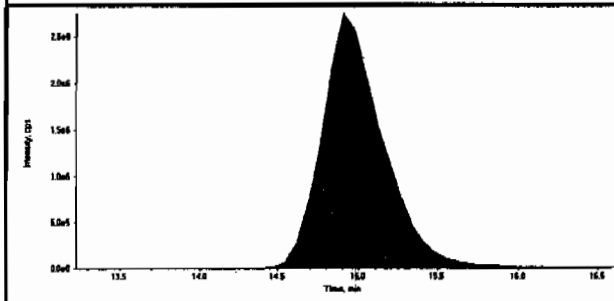
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

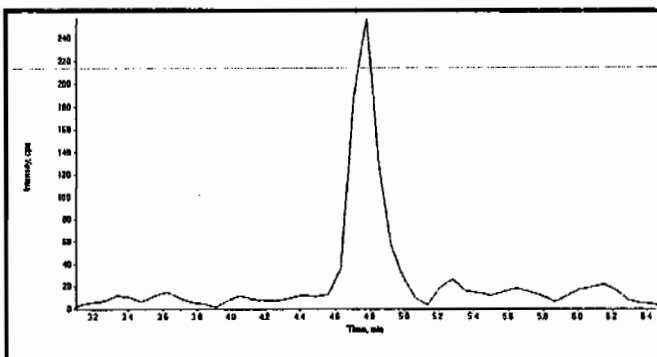
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Sample Name	247193009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



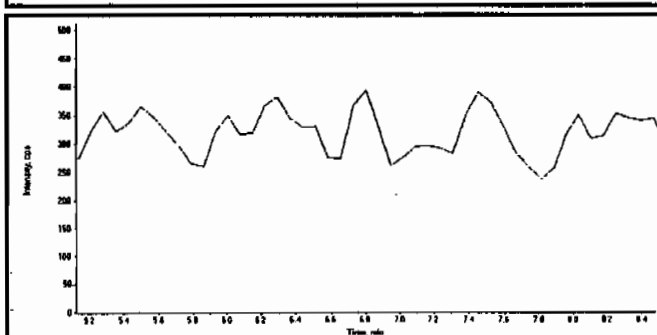
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	16300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	73300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

See 4/2/10 HMX 04/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330032.wiff	Acquisition Date	3/30/2010 10:15:30 PM
Sample Name	247193009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

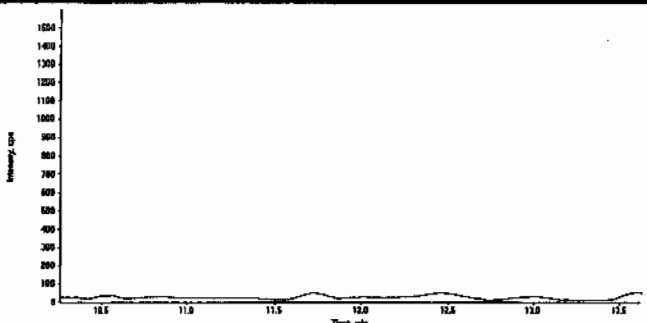
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

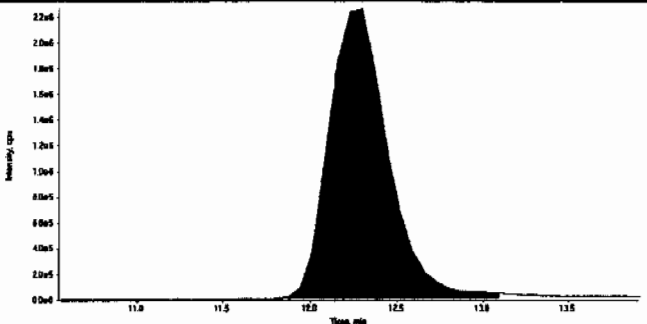
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

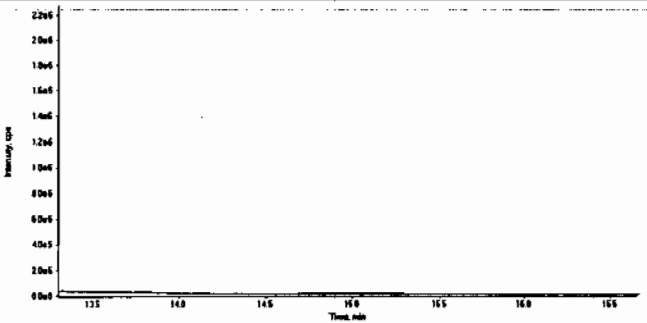
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

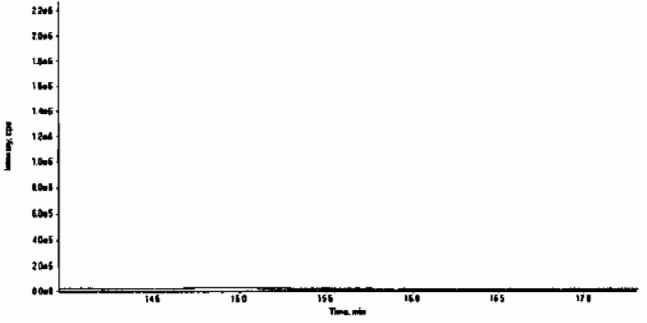
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330032.wiff	Acquisition Date	3/30/2010 10:15:30 PM
Sample Name	247193009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.3
	Area Counts:	5.44e+007
	Manual Modification	No
	Amount:	319. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.9
	Area Counts:	6.73e+005
	Manual Modification	No
	Amount:	5.08 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330032.wiff	Acquisition Date	3/30/2010 10:15:30 PM
Sample Name	247193009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

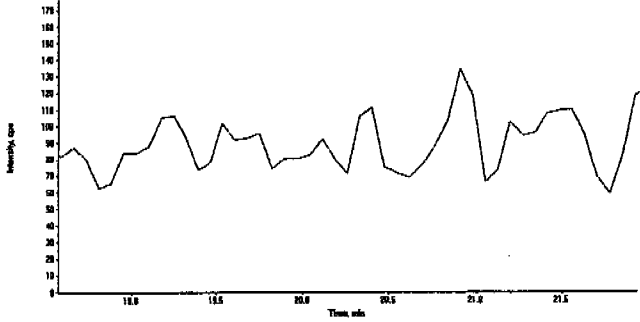
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

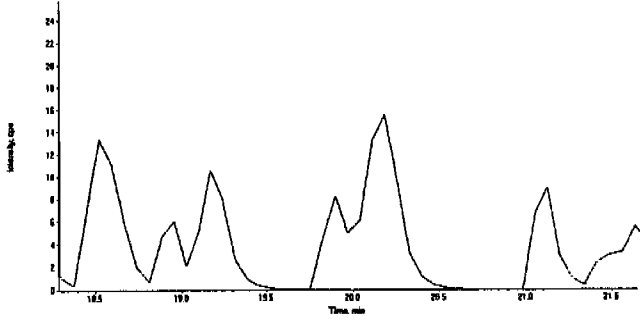
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330032.wiff	Acquisition Date	3/30/2010 10:15:30 PM
Sample Name	247193009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8193

Lab Code: GEI

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100097.wiff

Date Analyzed: 11-MAR-10 16:39

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

Run 3/14/10

Sample Name: "247193009" Sample ID: "95432821" File: "EX03100097.wif"

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

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

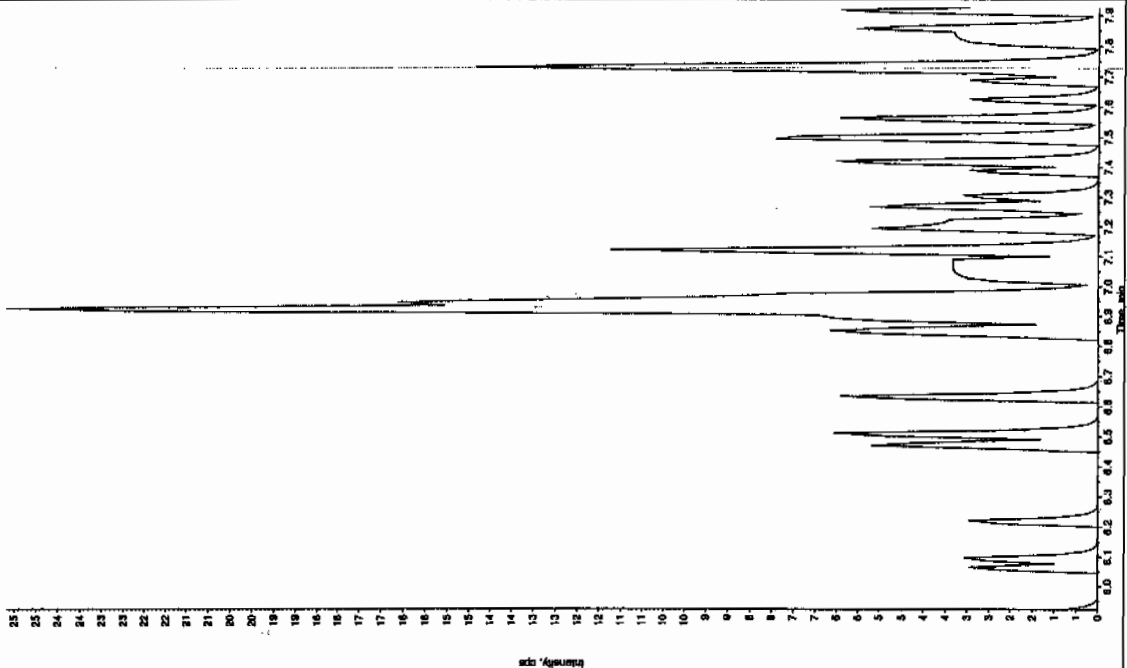
Concentration: 0.00 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 4:39:04 PM

Modified: No

283 of 868



Sample Name: "247193009" Sample ID: "95432821" File: "EX03100097.wif"

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

Comment: "LCX832125" Annotation: "

Sample Index: 1

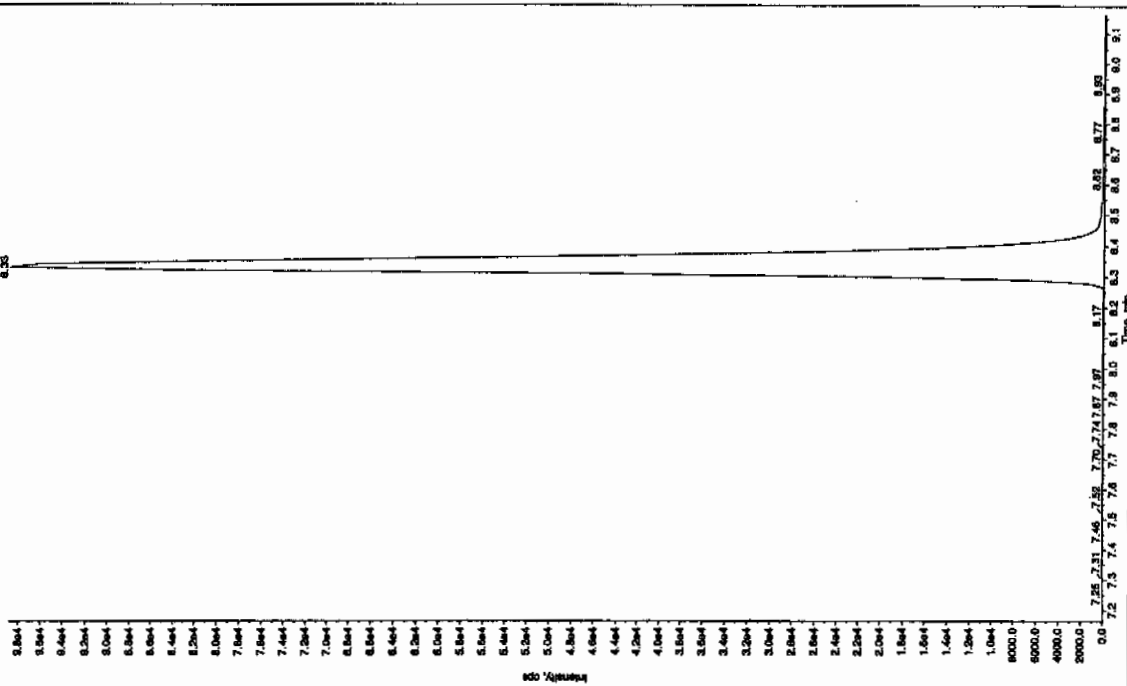
Sample Type: Unknown

Concentration: 0.00 ng/mL

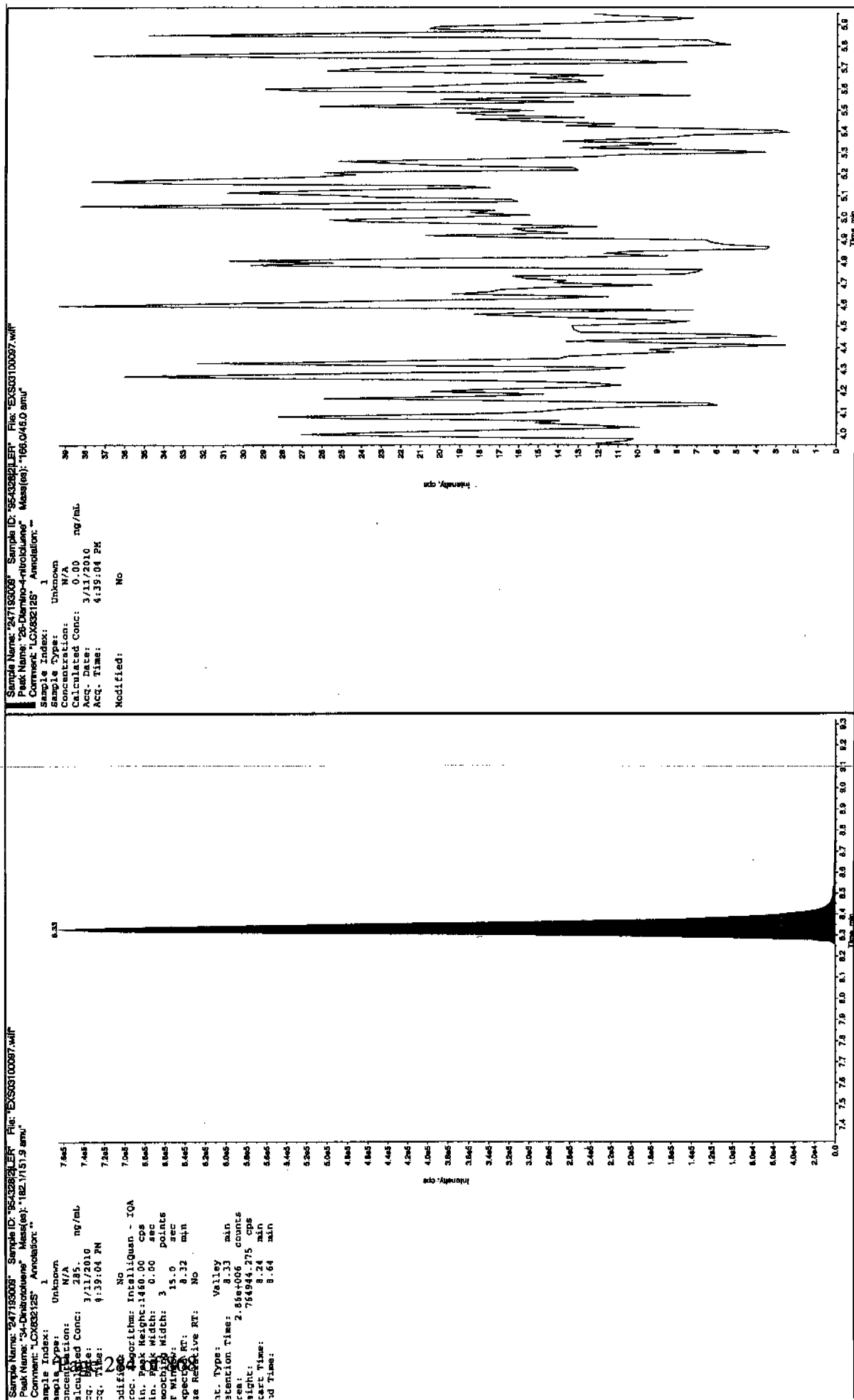
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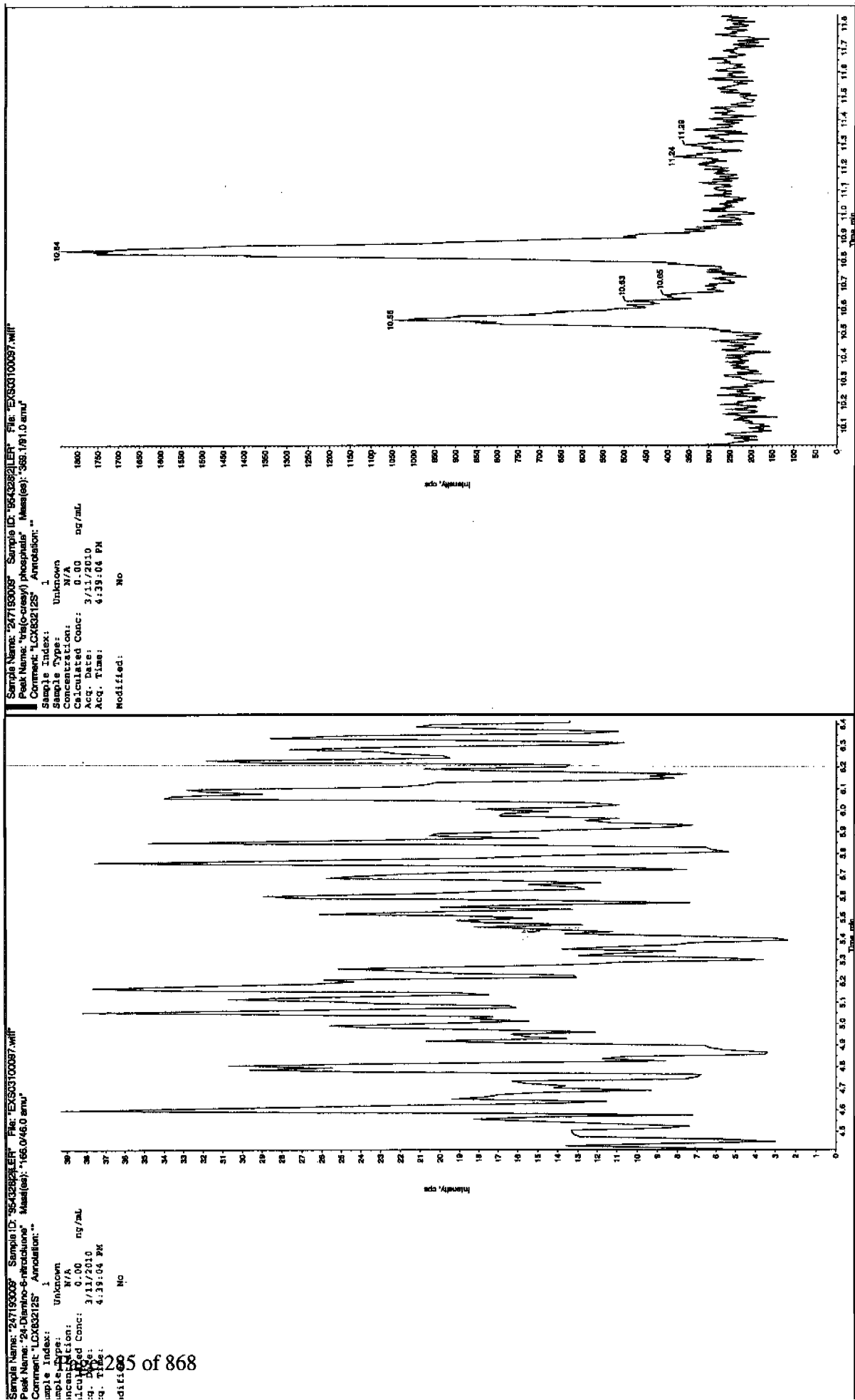
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Modified: No



Run 3/14/10





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8191

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330033.wiff

Date Analyzed: 30-MAR-10 22:41

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

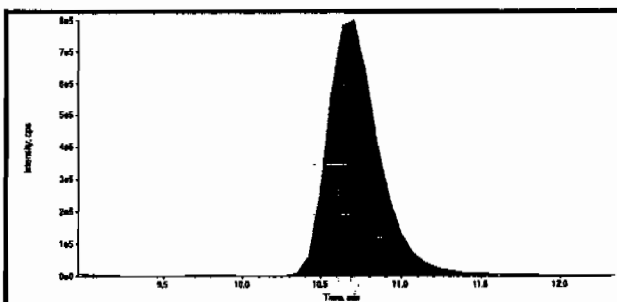
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

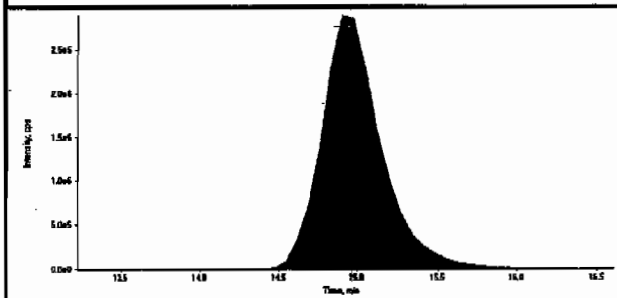
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330033.wiff	Acquisition Date	3/30/2010 10:41:50 PM
Sample Name	247193010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



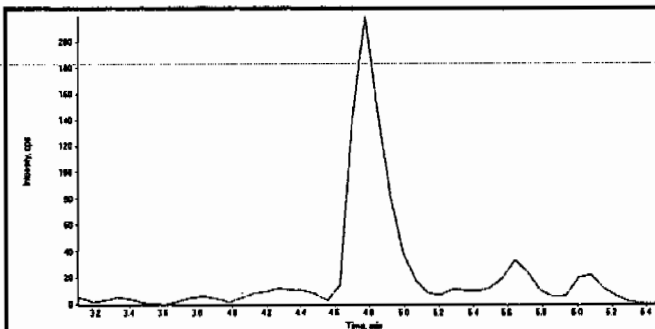
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	17800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

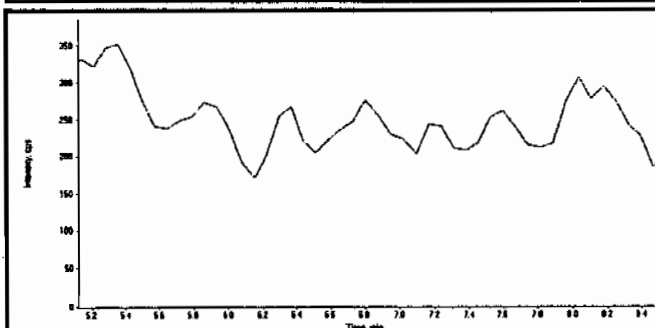


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	75500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
Hmx 04/10/10
RDX 4/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330033.wiff	Acquisition Date	3/30/2010 10:41:50 PM
Sample Name	247193010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

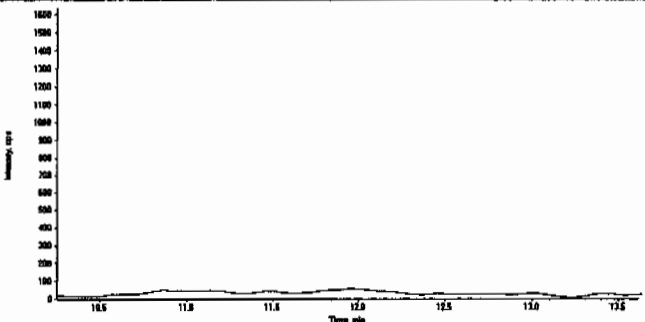
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

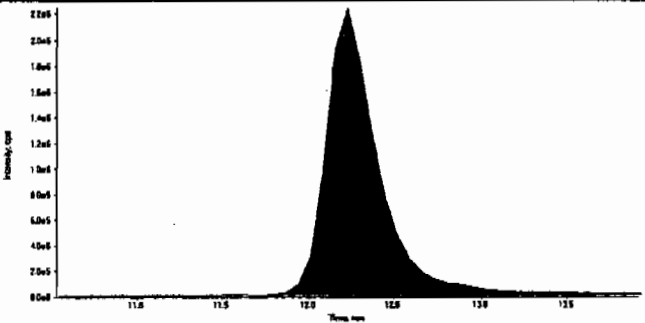
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

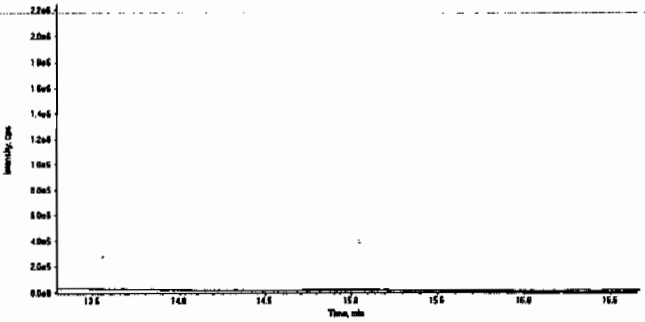
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

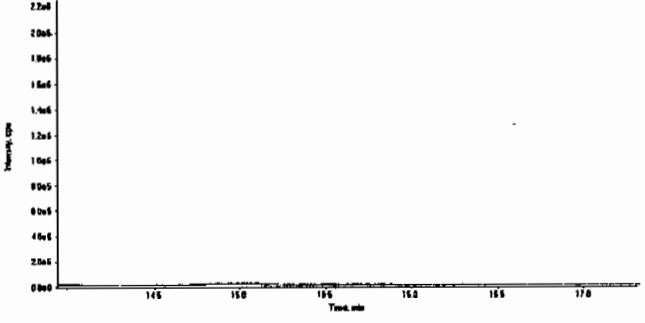
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LCMSMS#3

Data File	EXP0330033.wiff	Acquisition Date	3/30/2010 10:41:50 PM
Sample Name	247193010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.84e+007
	Manual Modification	No
	Amount:	275. (ng/mL)
	% Accuracy:	N/A

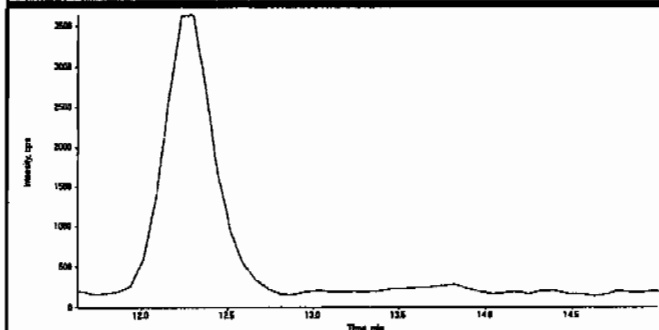
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	6.35e+005
	Manual Modification	No
	Amount:	4.65 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

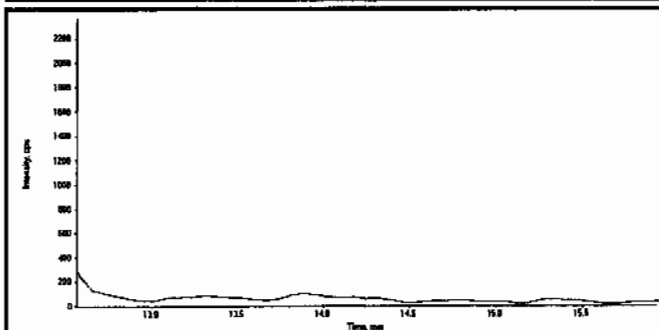
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

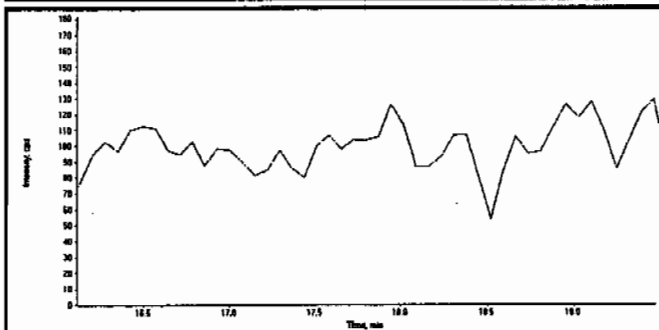
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Sample Name	247193010	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328/2/LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



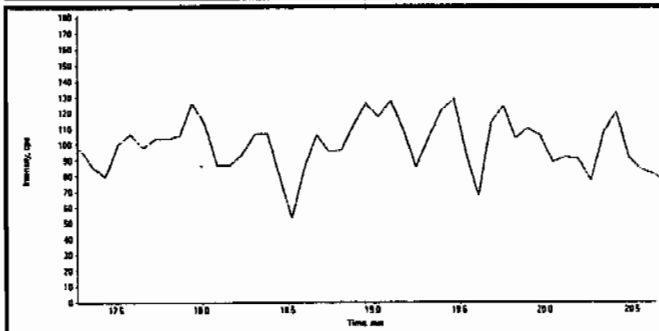
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330033.wiff	Acquisition Date	3/30/2010 10:41:50 PM
Sample Name	247193010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8191

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100098.wiff

Date Analyzed: 11-MAR-10 16:54

Units: ug/kg

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

*Concentration =

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

don 3/14/10

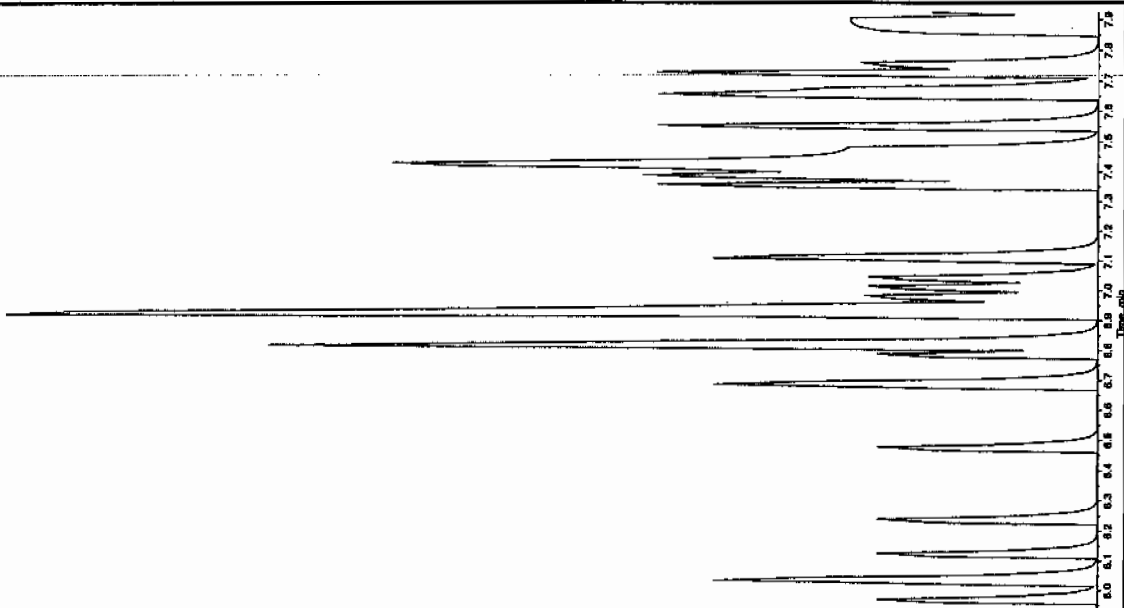
Sample Name: "247193010" Sample ID: "95432821" File: "EXS03100098.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 4:54:45 PM
Modified: No

Intensity, cps



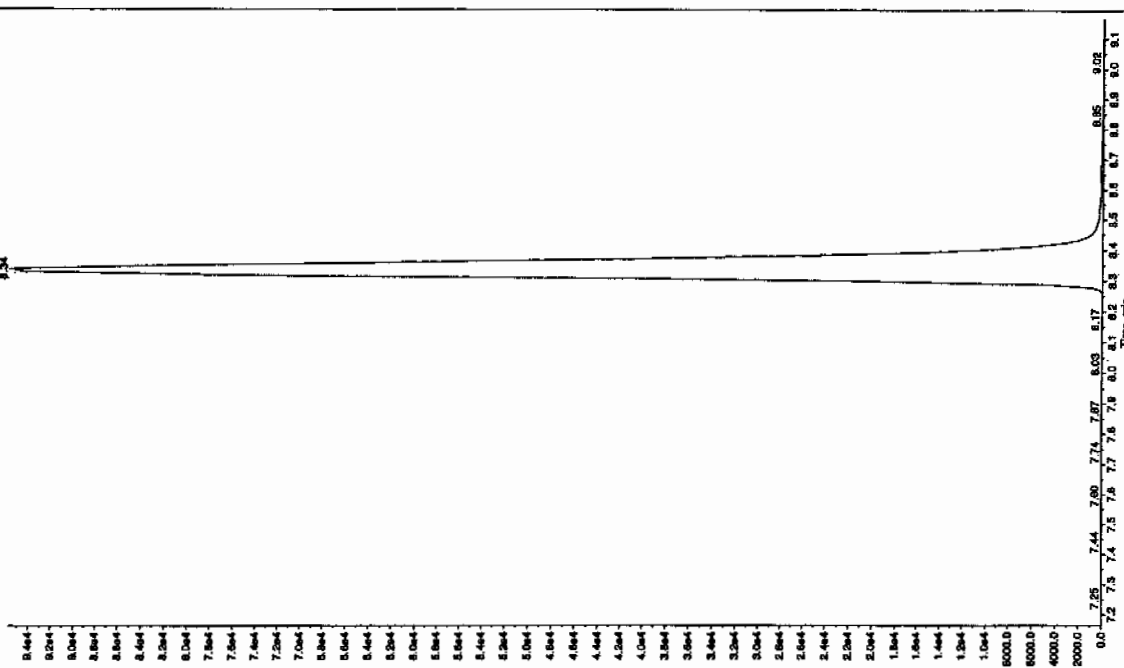
Sample Name: "247193010" Sample ID: "95432821" File: "EXS03100098.wif"

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

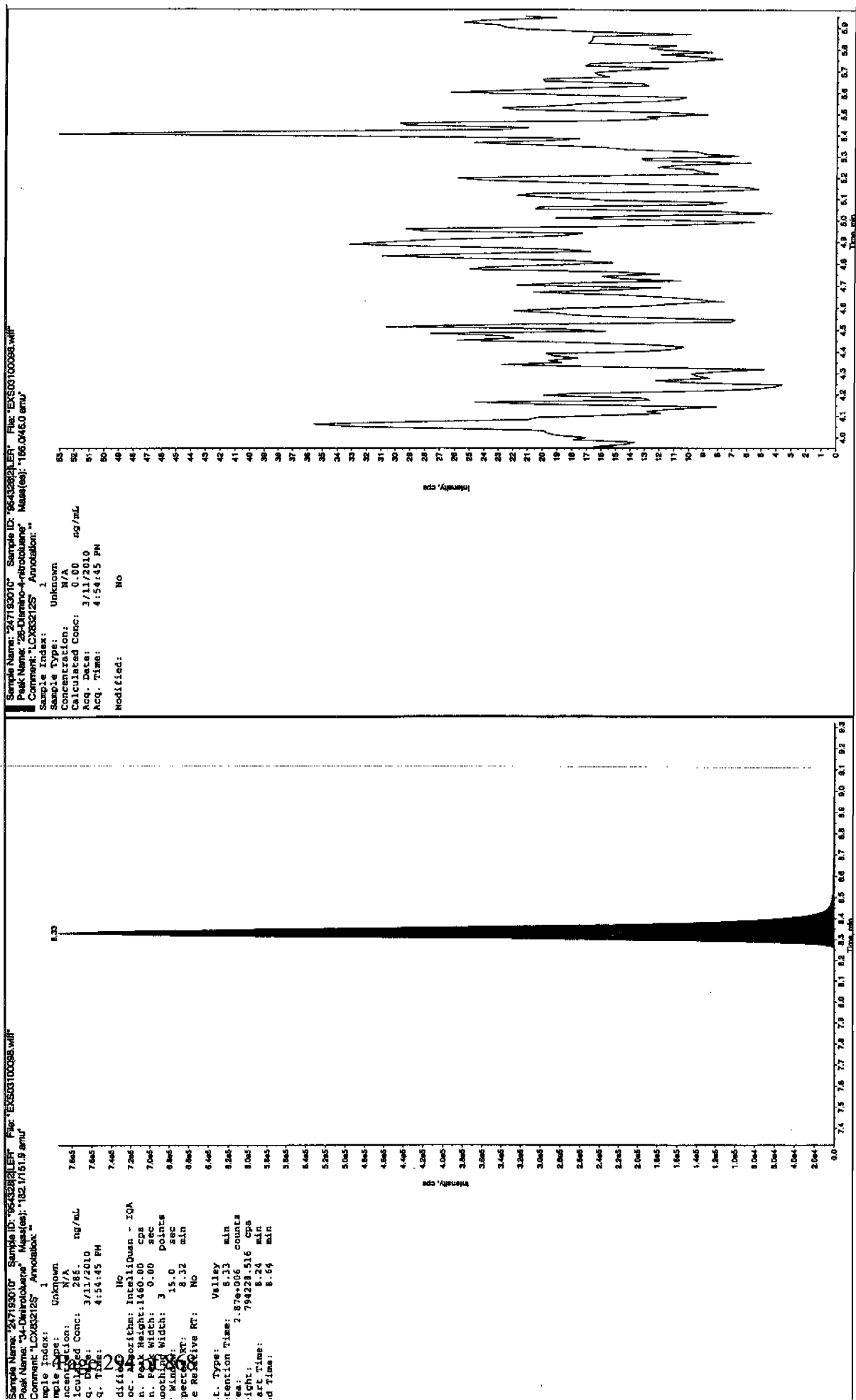
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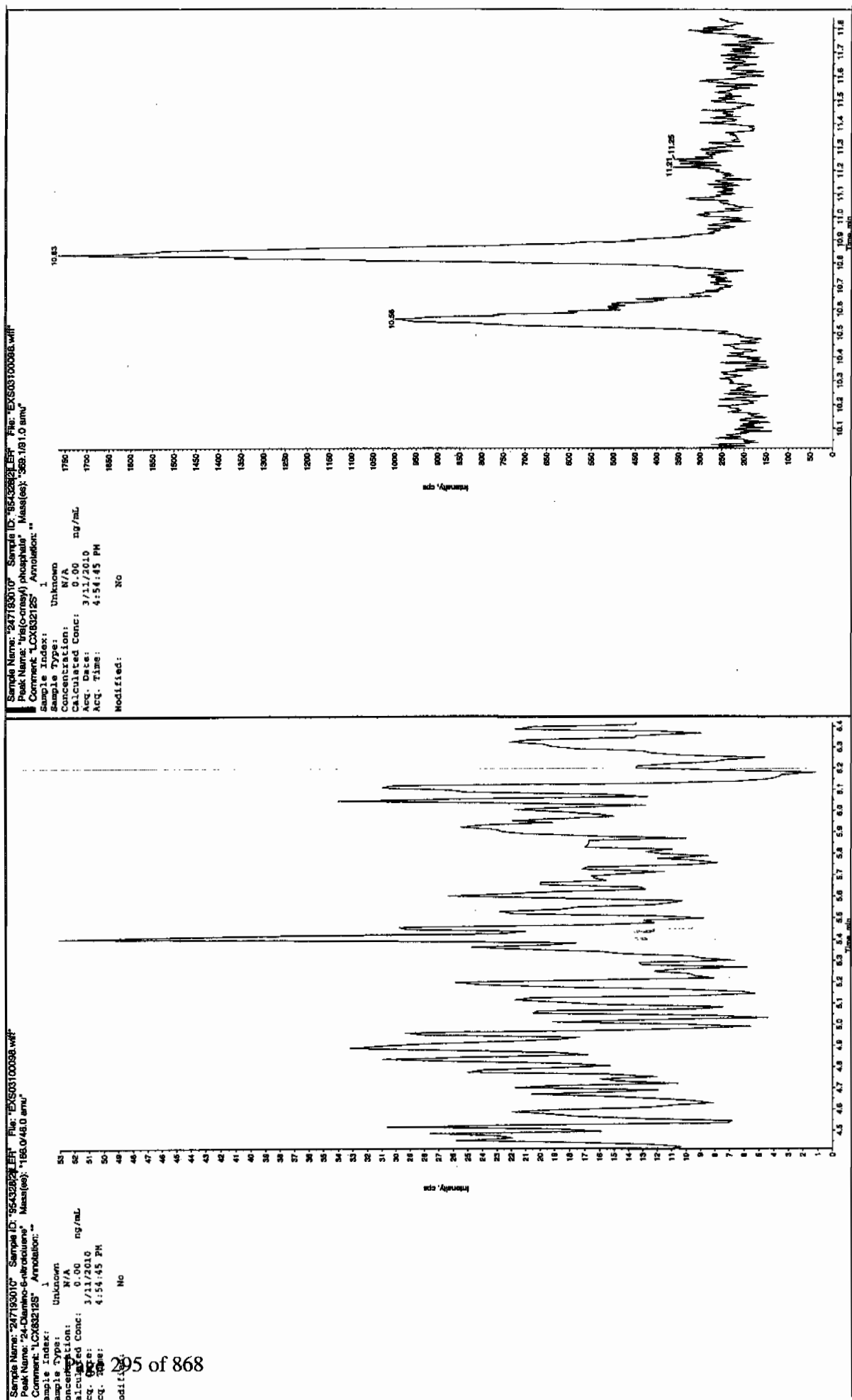
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 4:54:45 PM
Modified: No

Intensity, cps



Amv 03/14/10





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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8192

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330034.wiff

Date Analyzed: 30-MAR-10 23:08

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

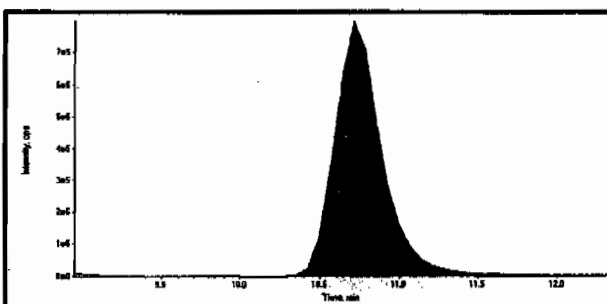
*Concentration =

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

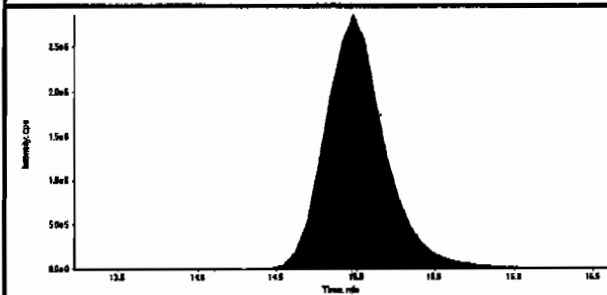
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

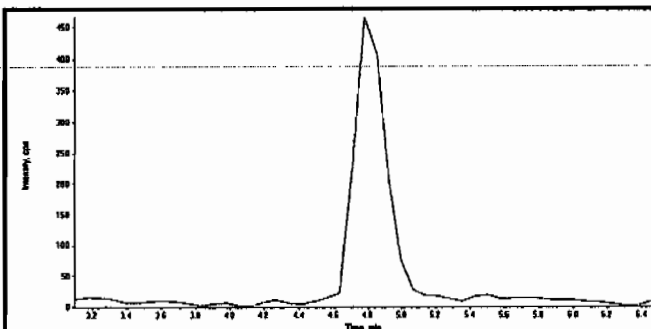
Data File	EXP0330034.wiff	Acquisition Date	3/30/2010 11:08:15 PM
Sample Name	247193011	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



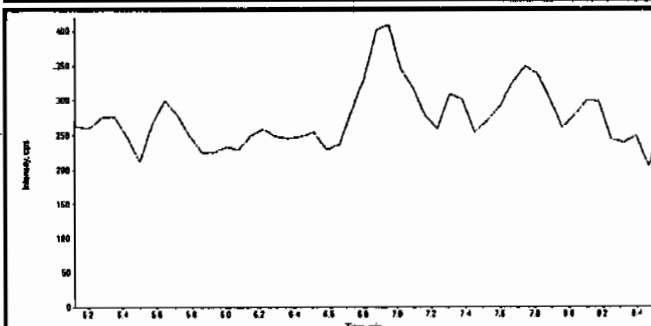
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	16500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	15.00
Area Counts:	75300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
HMX 04/2/10
RDX 4/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330034.wiff	Acquisition Date	3/30/2010 11:08:15 PM
Sample Name	247193011	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

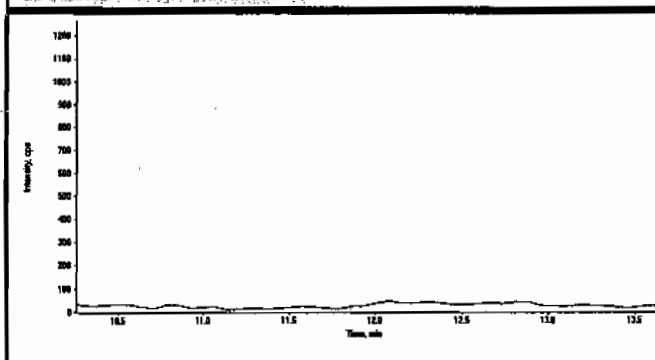
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

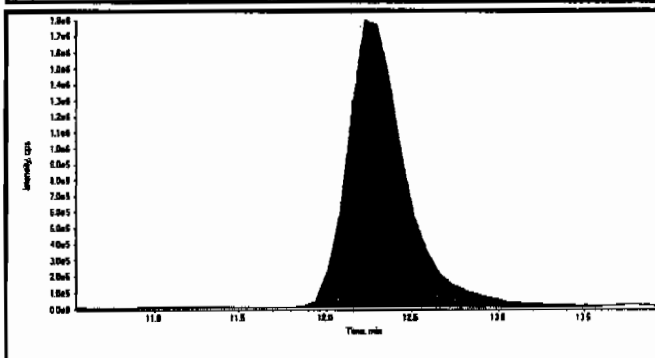
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

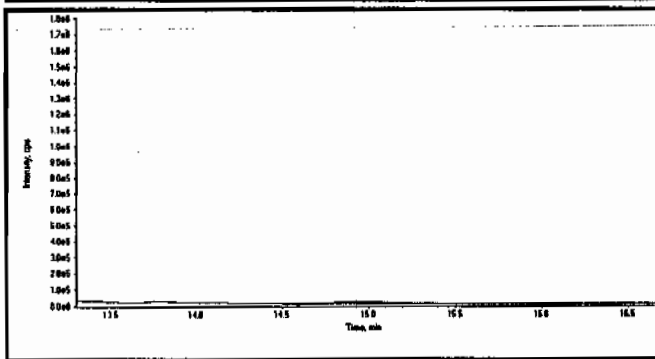
Data File	EXP0330034.wiff	Acquisition Date	3/30/2010 11:08:15 PM
Sample Name	247193011	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



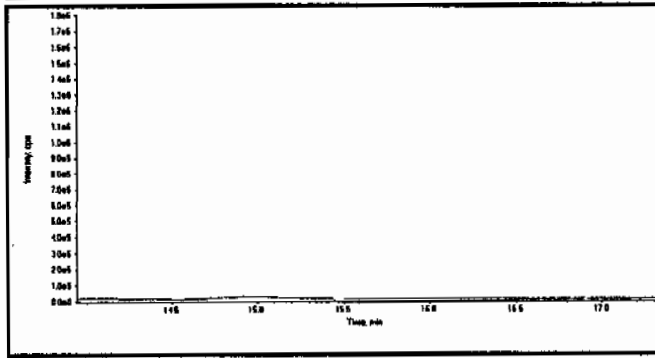
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.2
Actual RT:	12.2
Area Counts:	4.25e+007
Manual Modification	No
Amount:	242. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.0
Actual RT:	15.0
Area Counts:	5.14e+005
Manual Modification	No
Amount:	3.78 (ng/mL)
% Accuracy:	N/A

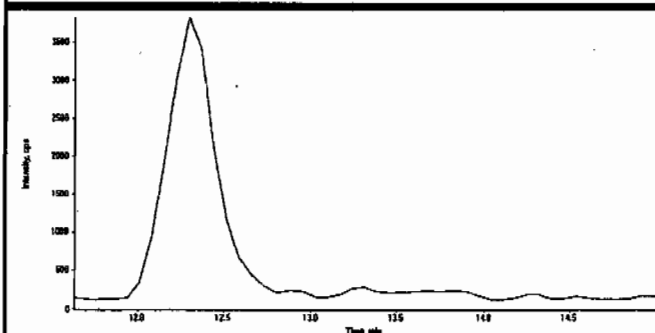


Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

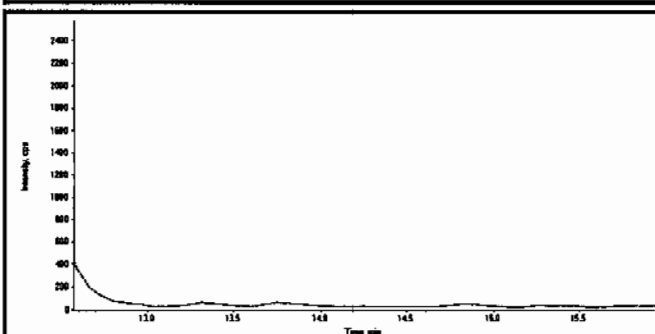
GEL Laboratories, LLC
 GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
 LCMSMS#3

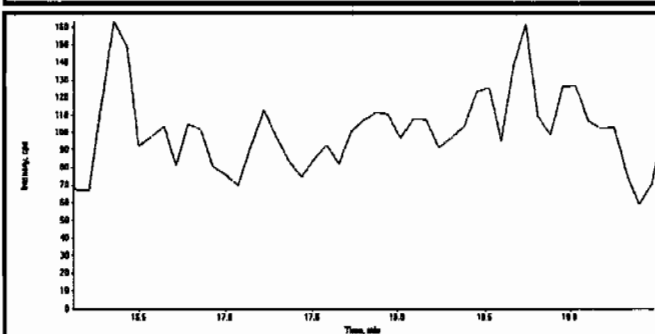
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Sample Name	247193011	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



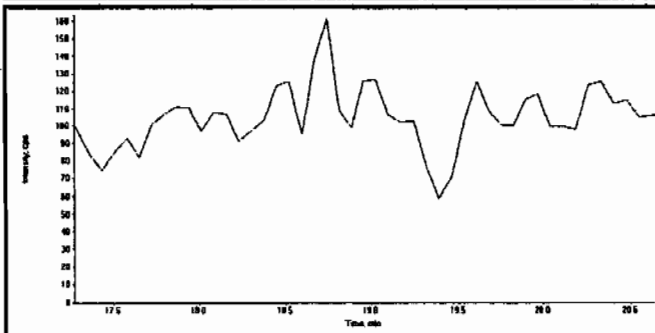
Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

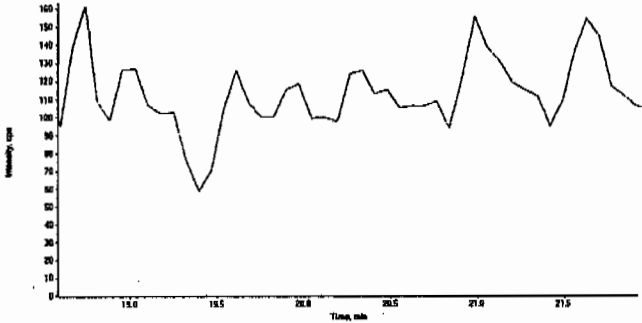


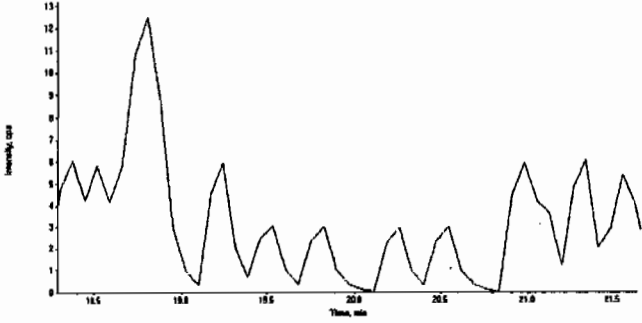
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330034.wiff	Acquisition Date	3/30/2010 11:08:15 PM
Sample Name	247193011	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8192

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100099.wiff

Date Analyzed: 11-MAR-10 17:10

Units: ug/kg

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

*Concentration =

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

Run 3/14/10

Sample Name: "247183011" Sample ID: "854328212" File: "EX503100099.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 5:10:25 PM

Modified: No

Sample Name: "247183011" Sample ID: "854328212" File: "EX503100099.wif"

Peak Name: "35-Dinitrobenzyl" Mass(es): "182.0460 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1

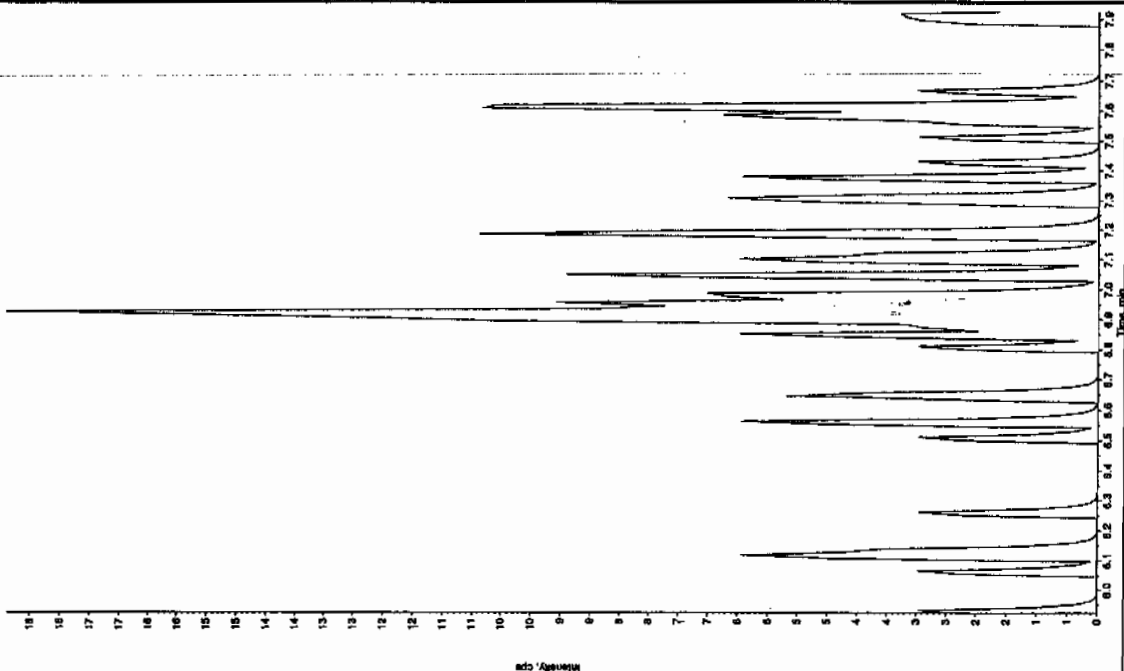
Sample Type: Unknown

Concentration: 0.00 ng/mL

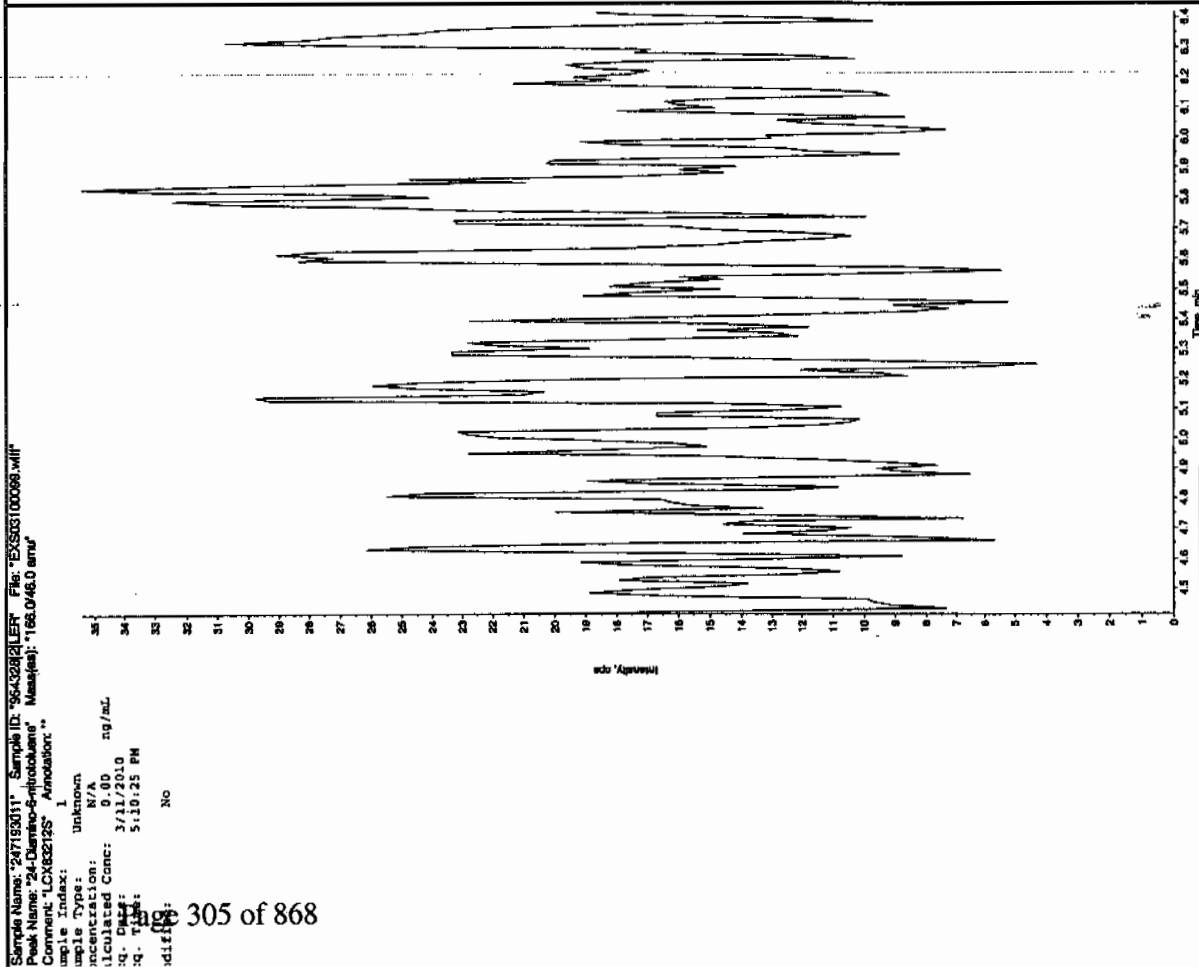
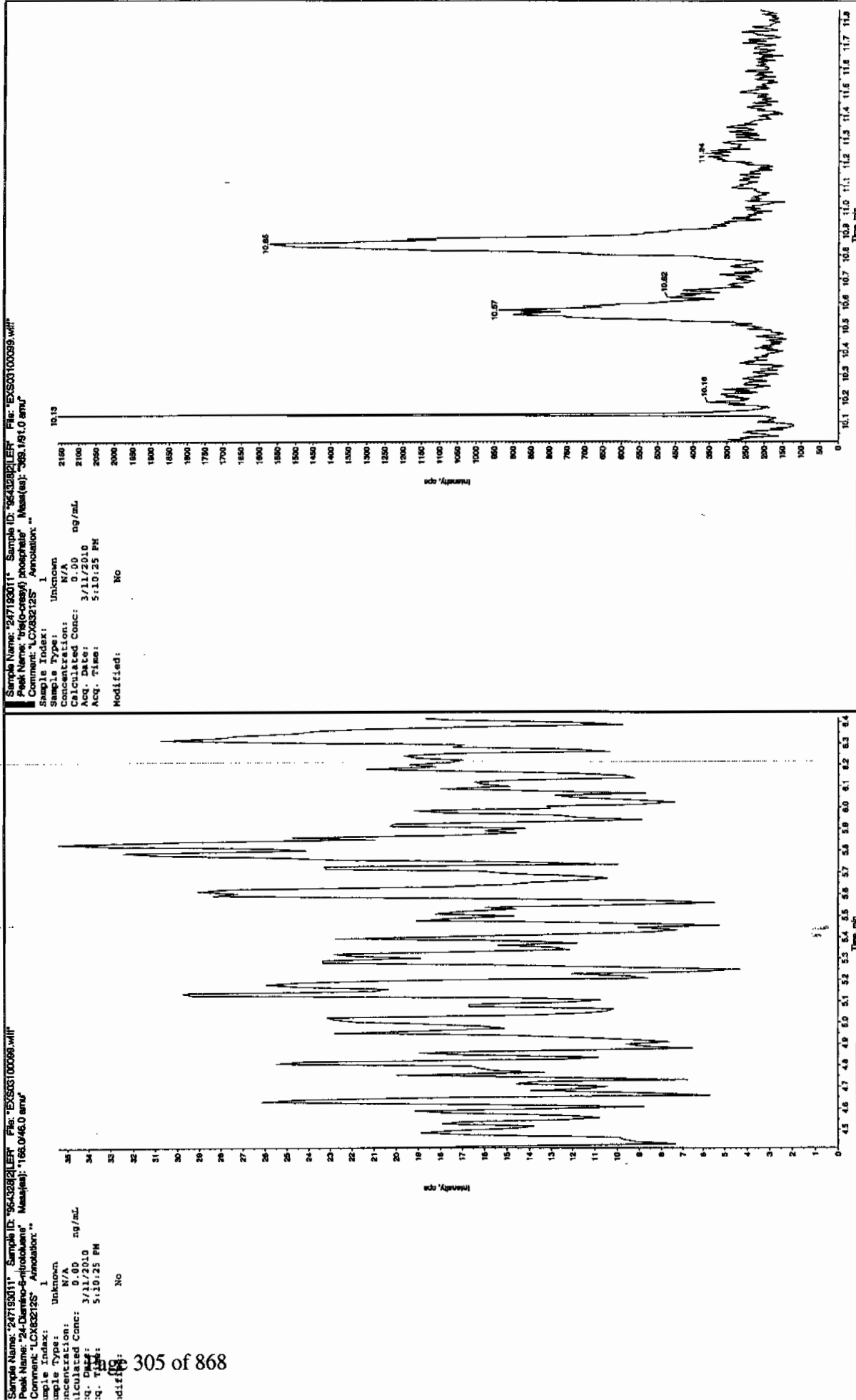
Acq. Date: 3/11/2010

Acq. Time: 5:10:25 PM

Modified: No



4/11/2010 3/15/10



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8195

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330035.wiff

Date Analyzed: 30-MAR-10 23:34

Units: ug/kg

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

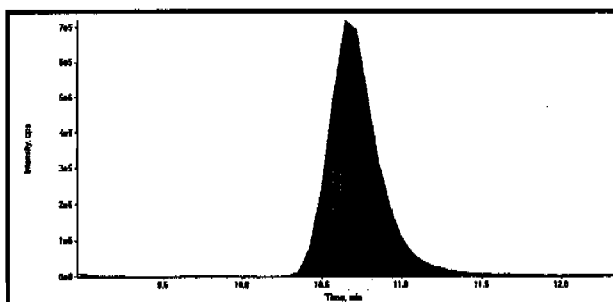
*Concentration =

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

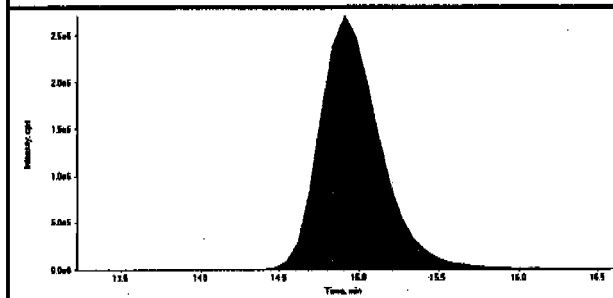
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

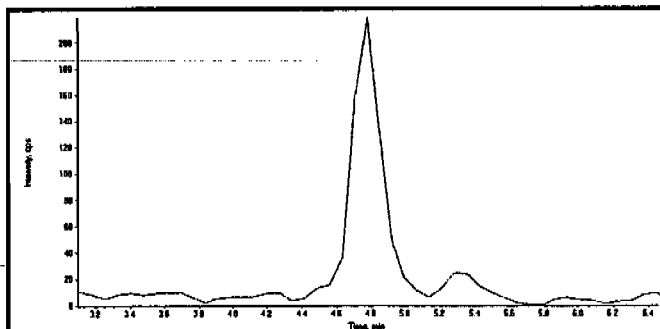
Data File	EXP0330035.wiff	Acquisition Date	3/30/2010 11:34:40 PM
Sample Name	247193012	Acquisition Method	8321_prtx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



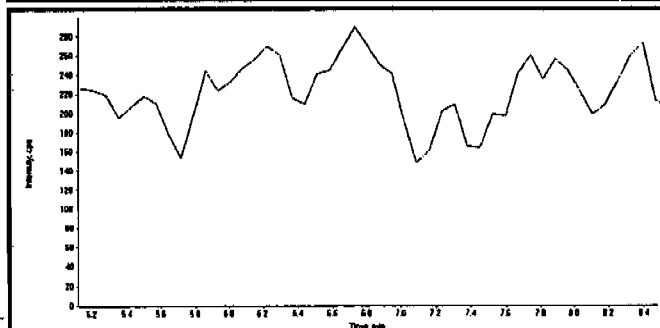
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	15300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	71300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten note:
this is a blank scan
4/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330035.wiff	Acquisition Date	3/30/2010 11:34:40 PM
Sample Name	247193012	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

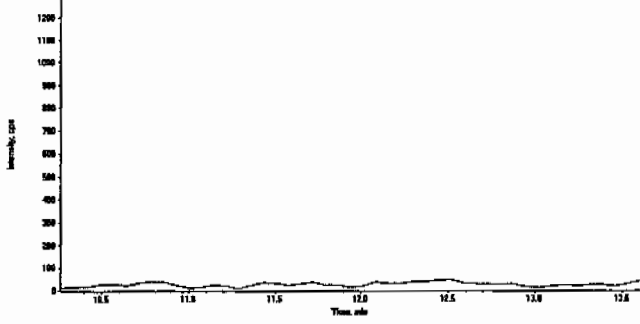
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

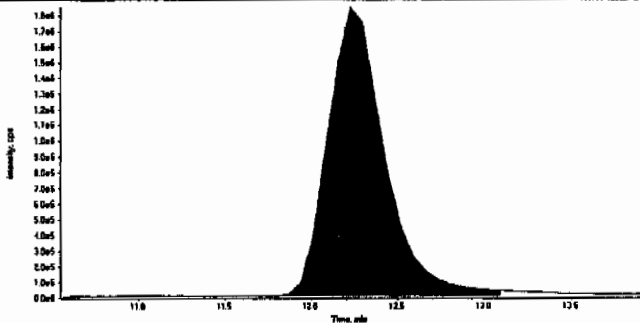
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

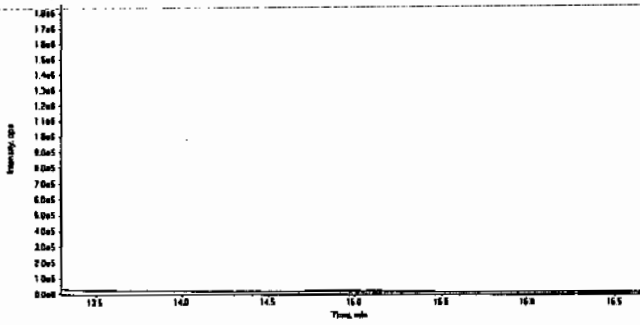
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

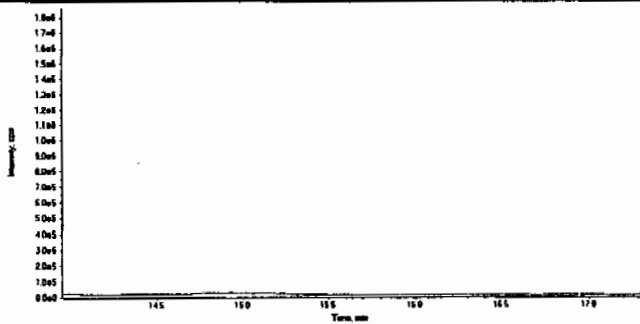
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330035.wiff	Acquisition Date	3/30/2010 11:34:40 PM
Sample Name	247193012	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.26e+007
	Manual Modification	No
	Amount:	257. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.9
	Area Counts:	5.55e+005
	Manual Modification	No
	Amount:	4.31 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330035.wiff	Acquisition Date	3/30/2010 11:34:40 PM
Sample Name	247193012	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

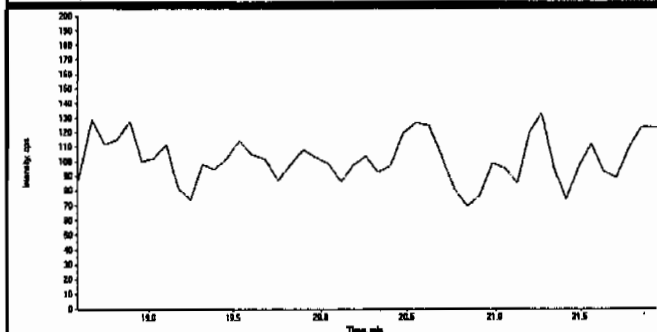
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

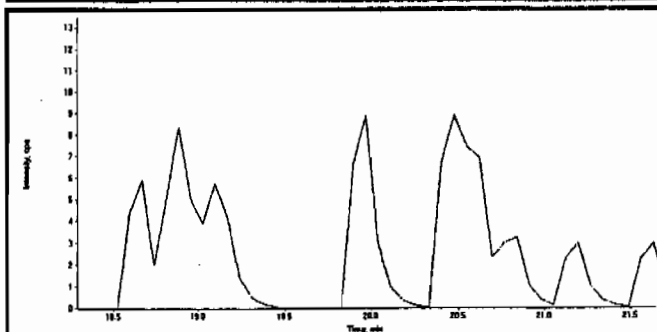
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330035.wiff	Acquisition Date	3/30/2010 11:34:40 PM
Sample Name	247193012	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	20.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8195

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100100.wiff

Date Analyzed: 11-MAR-10 17:26

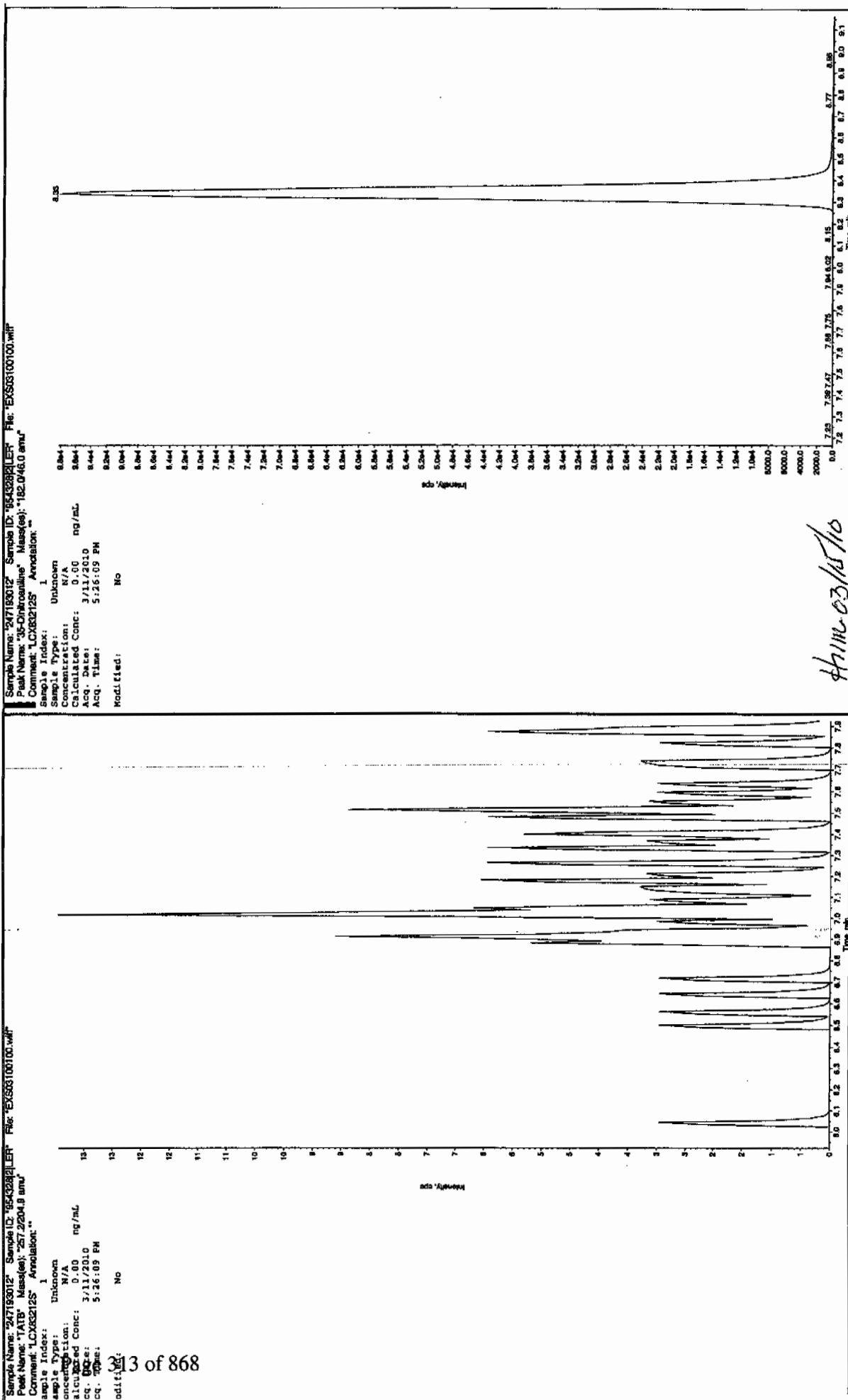
Units: ug/kg

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

*Concentration =

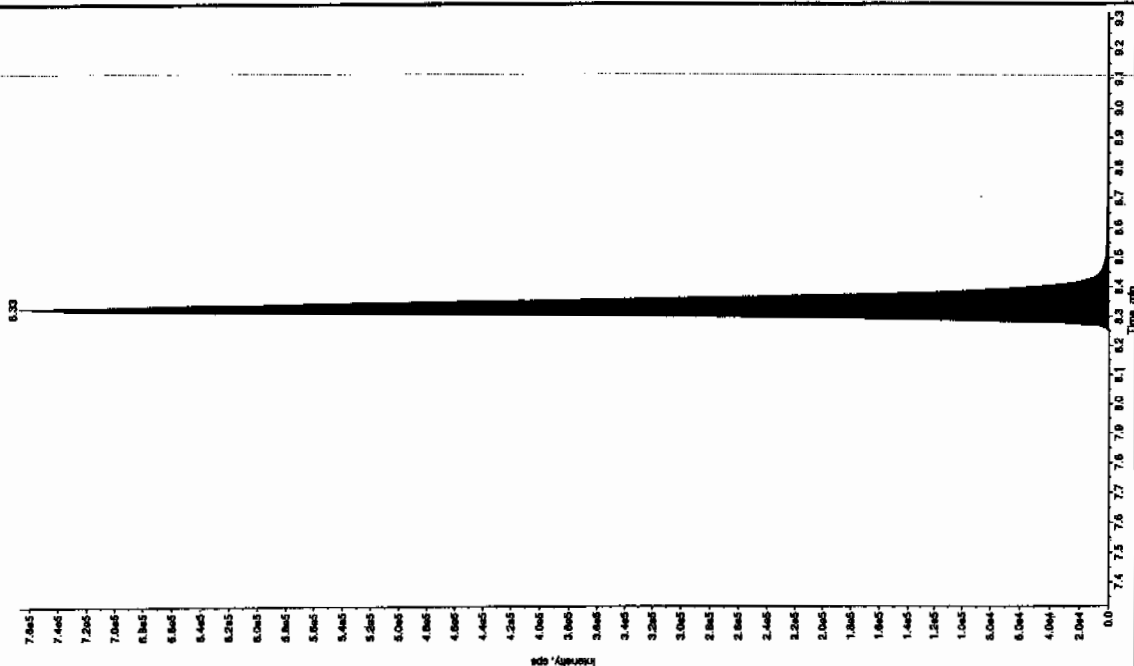
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Run 3/14/10



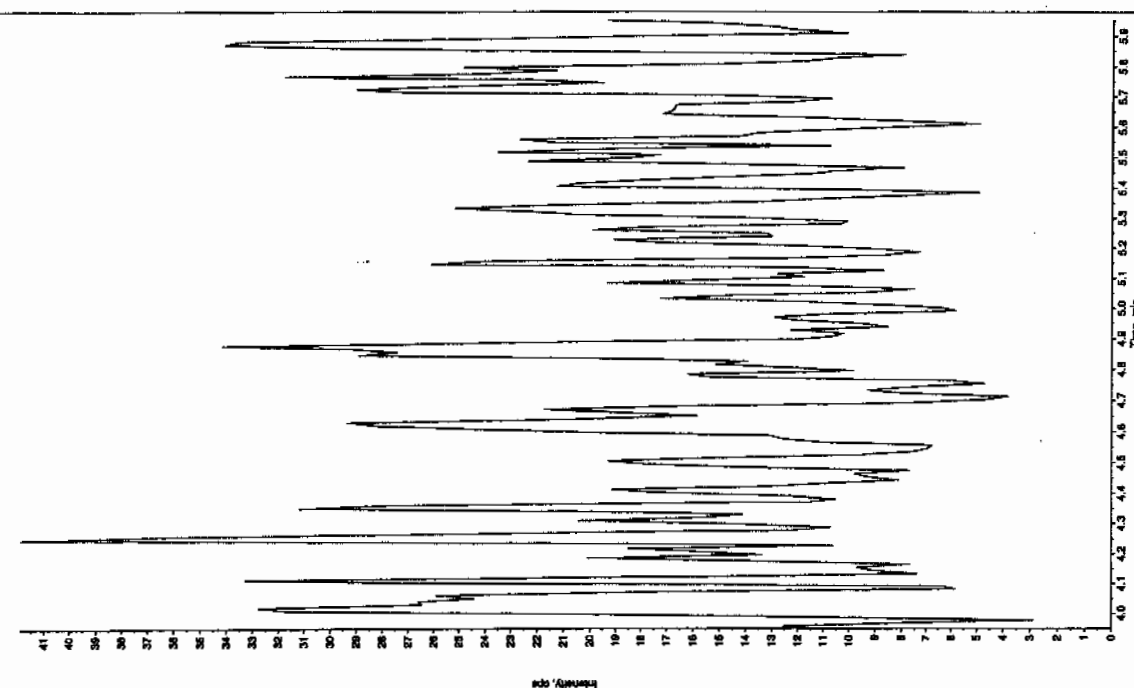
Sample Name: 247193012 Sample ID: 8543282125 File: EX503100100.wif
 Peak Name: 24-Dinitro-4-nitrobenzene Mass(es): 182.1619 amu
 Comment: LCX832125 Annotation: "

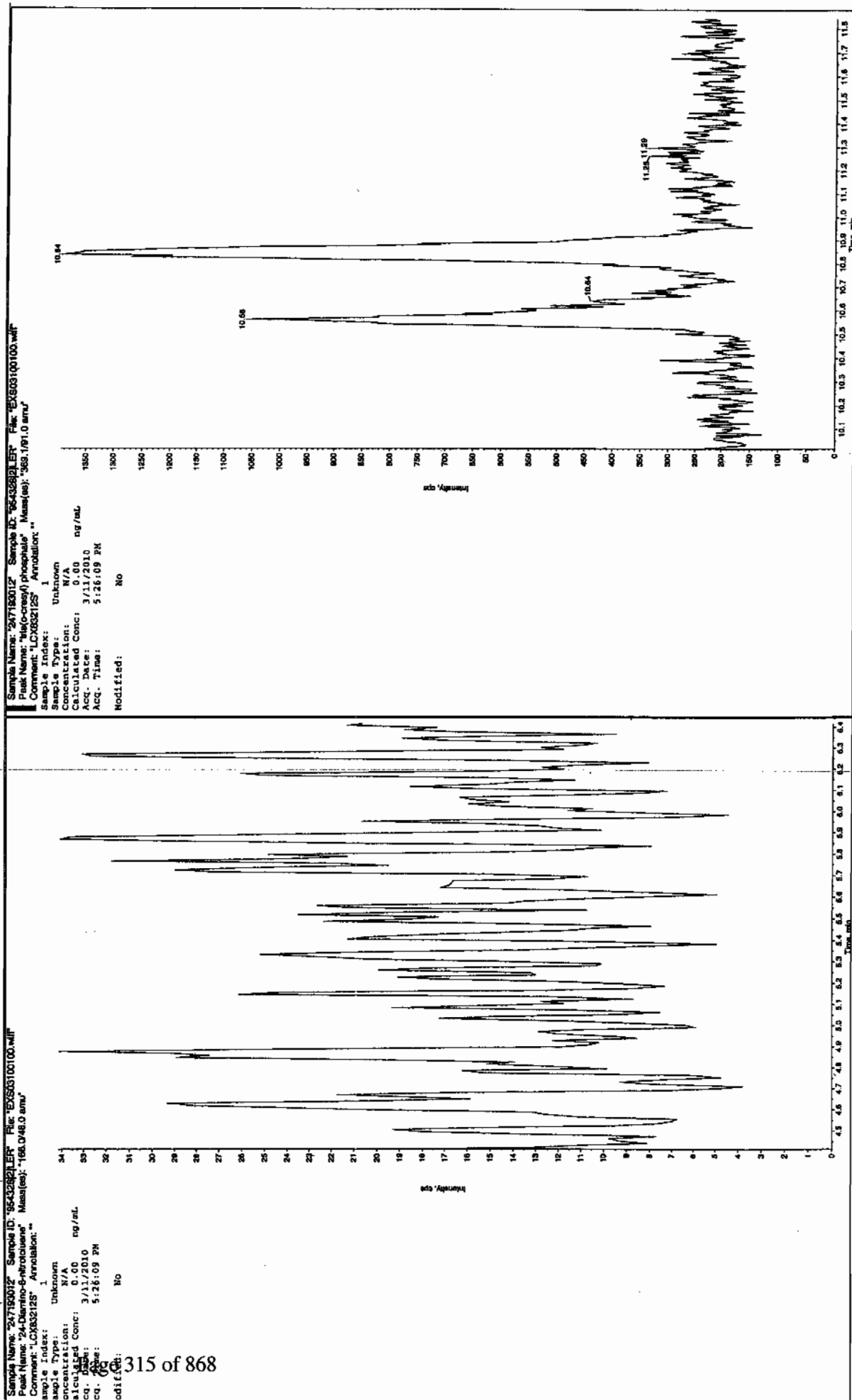
Sample Index: 1
 Sample Type: Unknown
 Concentration: 280.00 ng/mL
 Q. Date: 3/11/2010
 Q. Time: 5:26:09 PM
 diff: No
 oc. Algorithm: IntelliQuan - IOA
 n. Peak Height: 1460.00 cps
 n. Peak Width: 0.00 sec
 c. Width: 3 points
 . Window: 15.0 sec
 pected RT: 8.32 min
 e Relative RT: No
 L. Type: Valley
 tention Time: 8.33 min
 es: 2.81e008 counts
 ight: 18119.043 cps
 ac Time: 8.33 min
 d Time: 8.70 min



Sample Name: 247193012 Sample ID: 8543282125 File: EX503100100.wif
 Peak Name: 28-Dinitro-4-nitrobenzene Mass(es): 186.0460 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 5:26:09 PM
 Modified: NO





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8226

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193013

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0401013.wiff

Date Analyzed: 01-APR-10 16:54

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

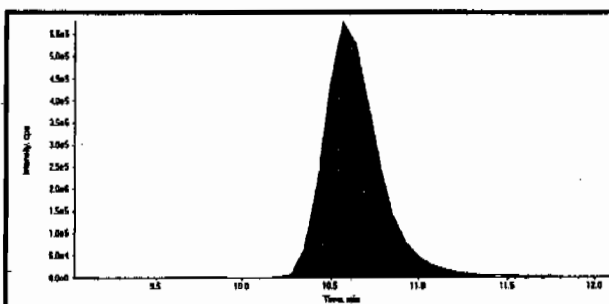
*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

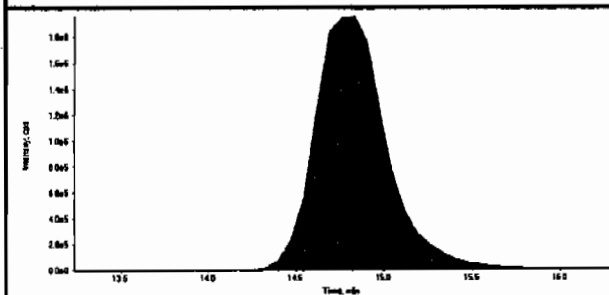
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

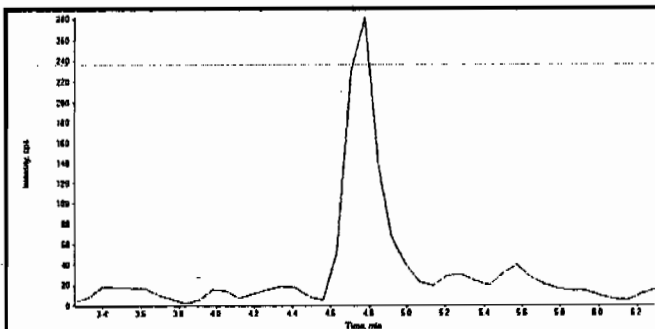
Data File	EXP0401013.wiff	Acquisition Date	4/1/2010 4:54:59 PM
Sample Name	247193013	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



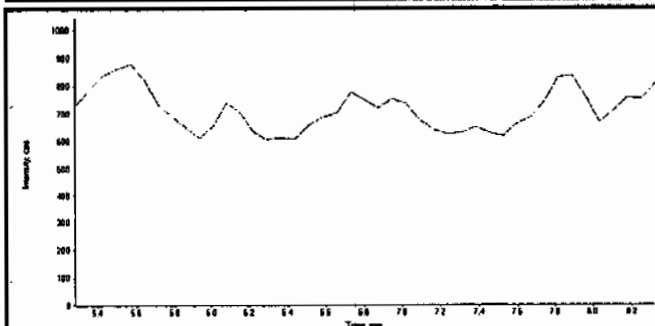
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	12300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	56700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

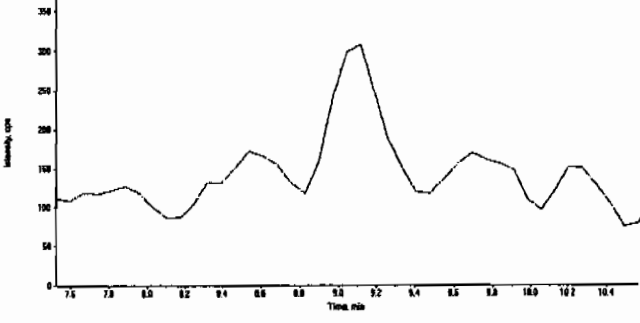
San
4/9/10

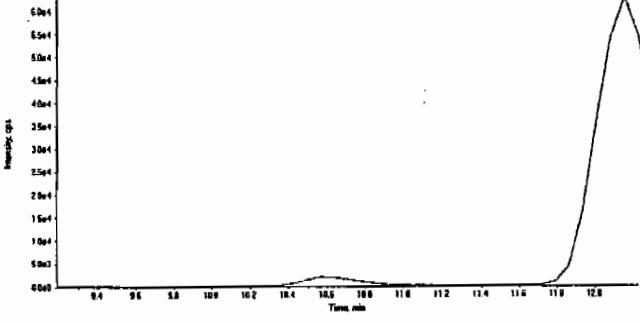
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04/09/10

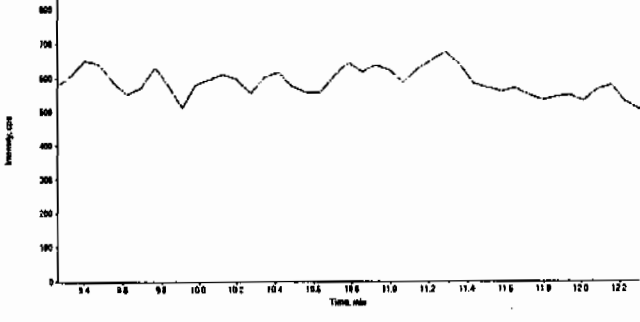
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

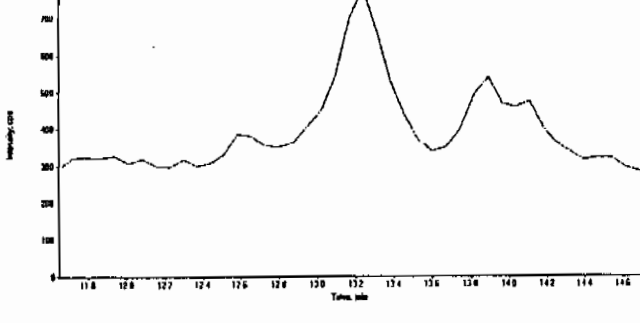
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401013.wiff	Acquisition Date	4/1/2010 4:54:59 PM
Sample Name	247193013	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

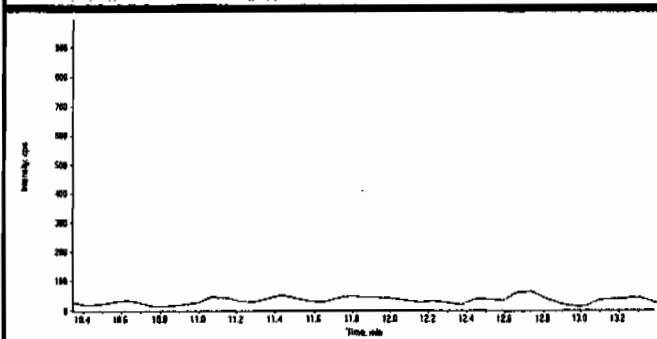
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

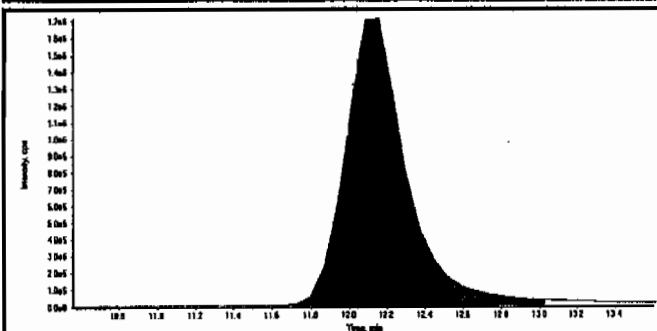
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

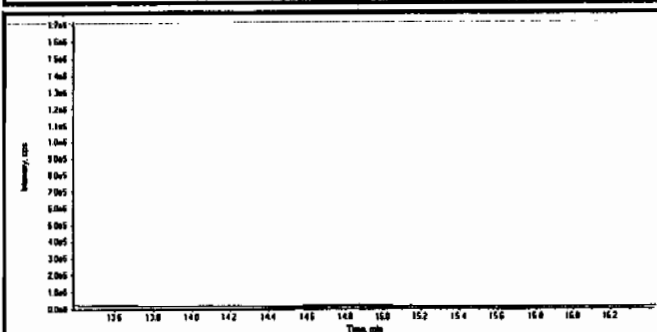
Data File	EXP0401013.wiff	Acquisition Date	4/1/2010 4:54:59 PM
Sample Name	247193013	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



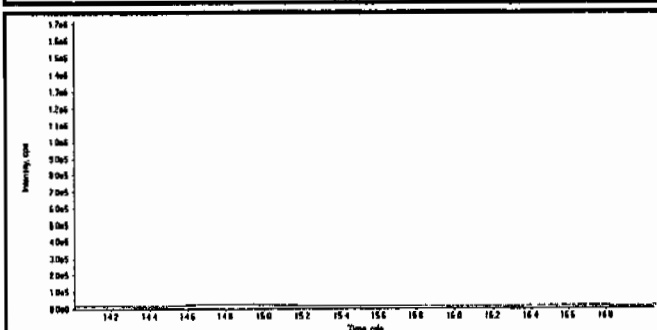
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.1
Actual RT:	12.2
Area Counts:	3.89e+007
Manual Modification	No
Amount:	274. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.9
Actual RT:	14.8
Area Counts:	5.82e+005
Manual Modification	No
Amount:	5.48 (ng/mL)
% Accuracy:	N/A

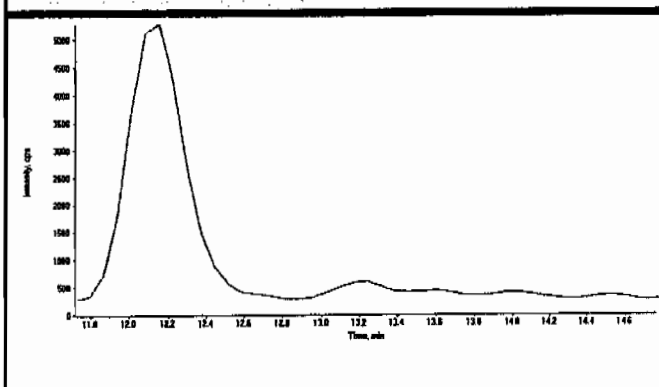


Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.5
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

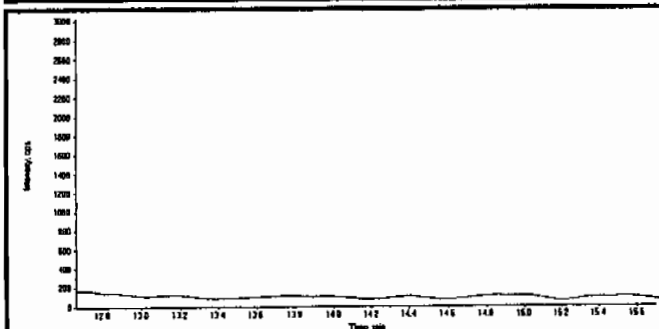
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

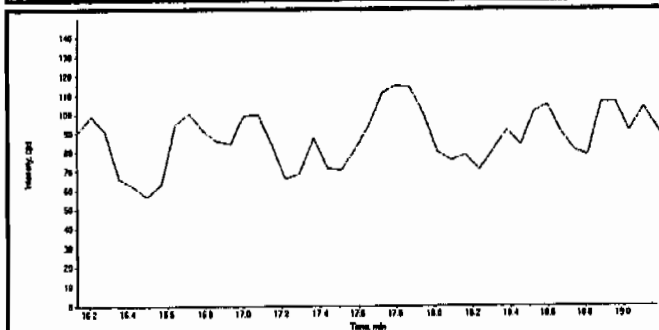
Data File	EXP0401013.wiff	Acquisition Date	4/1/2010 4:54:59 PM
Sample Name	247193013	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



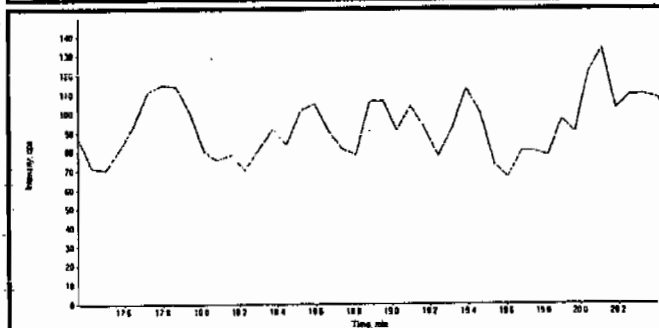
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.2
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.2
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.7
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

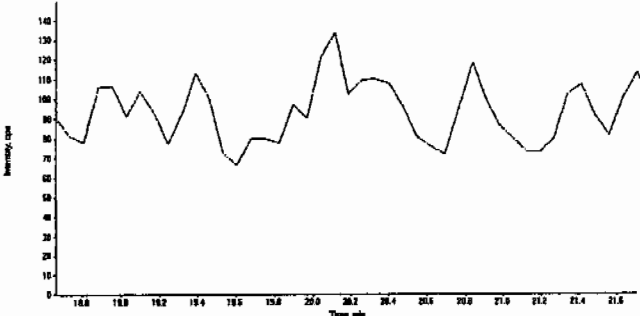


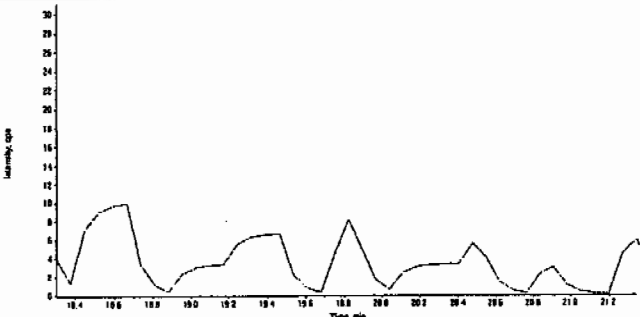
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	18.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401013.wiff	Acquisition Date	4/1/2010 4:54:59 PM
Sample Name	247193013	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8226

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193013

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 254324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100101.wiff

Date Analyzed: 11-MAR-10 17:41

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

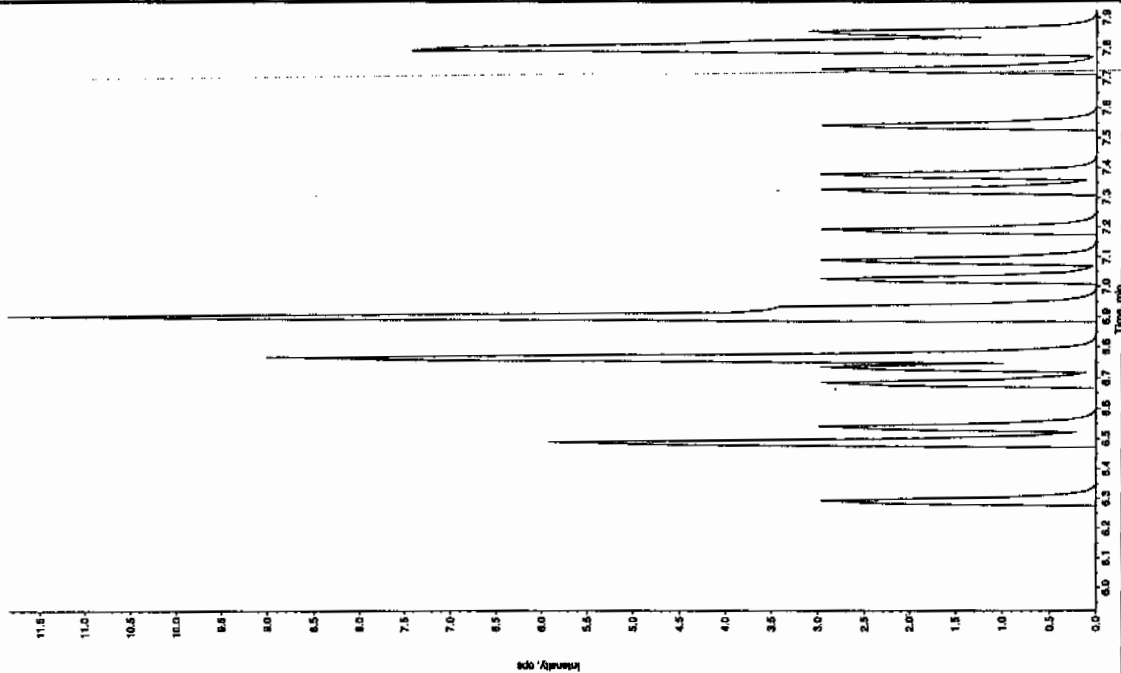
*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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See 3/14/10

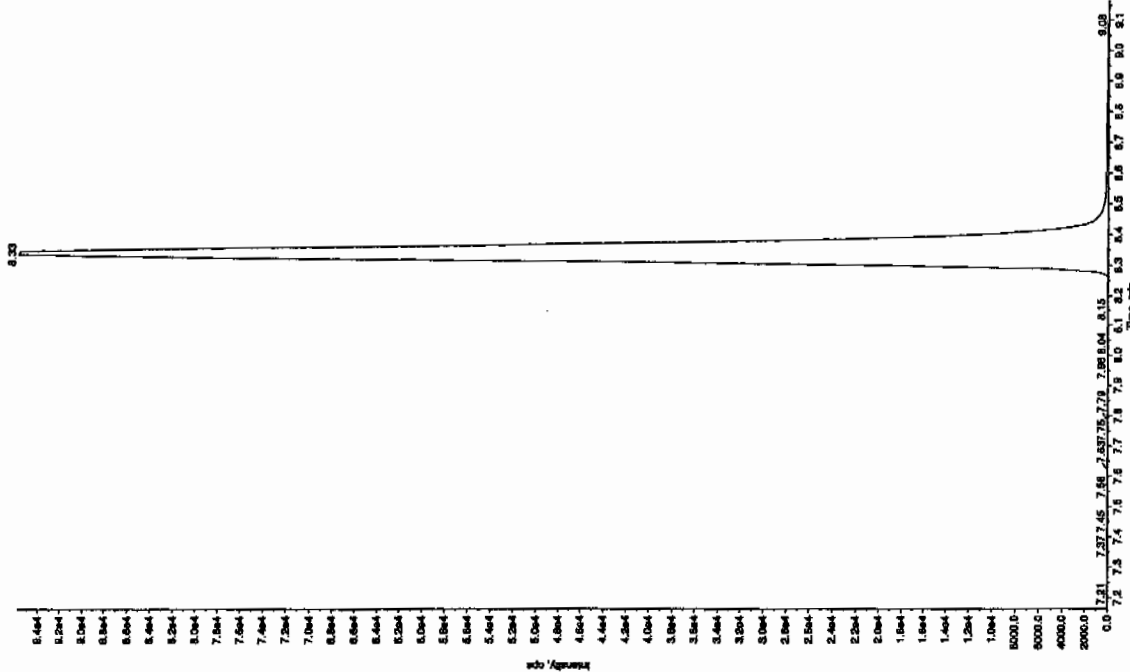
Sample Name: "247183013" Sample ID: "85432821LRF" File: "EX030100101.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 5:41:50 PM
 Modified: No

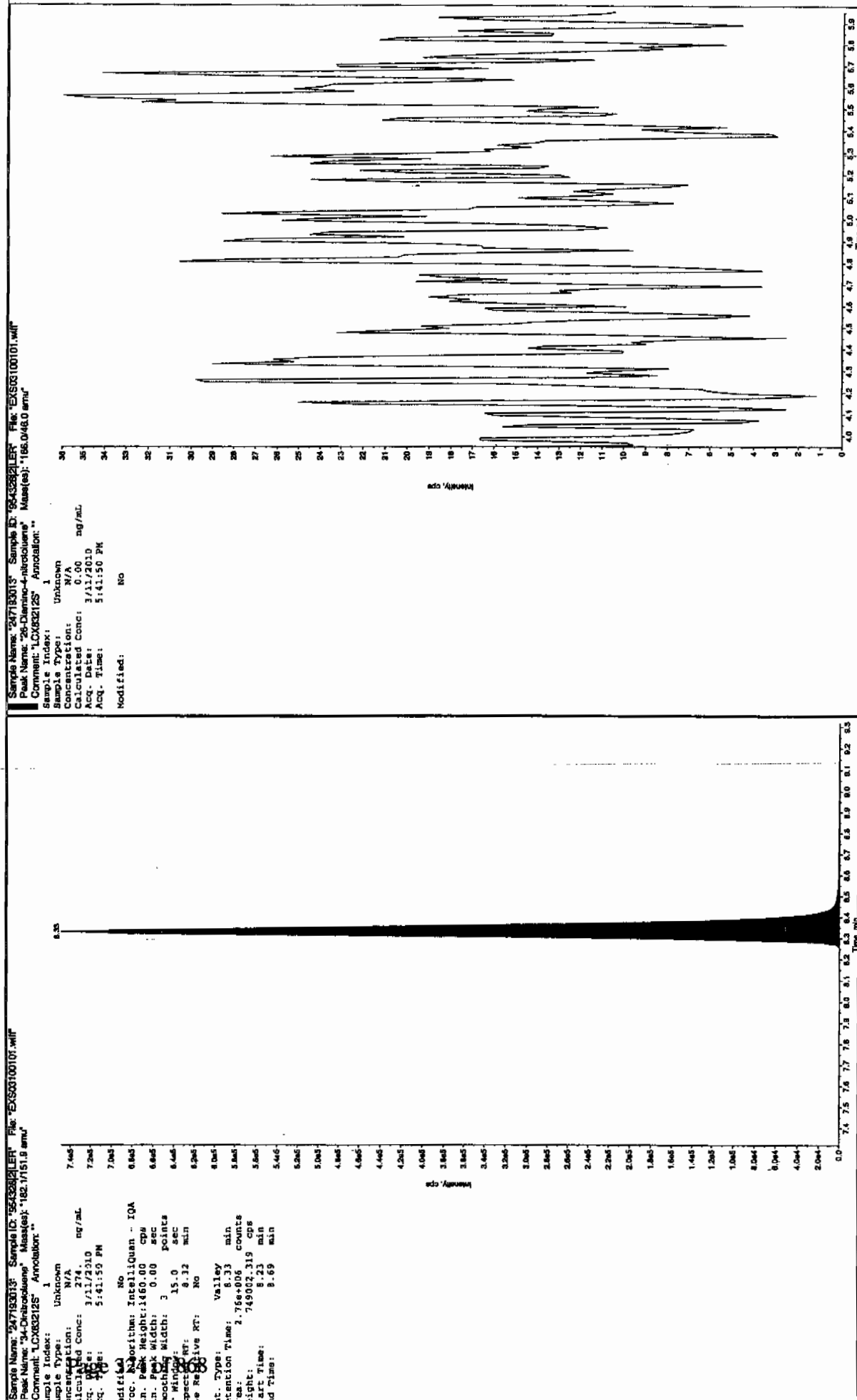


Sample Name: "247183013" Sample ID: "85432821LRF" File: "EX030100101.wif"
 Peak Name: "36-Dichlorosilane" Mass(es): "182.0460 amu"
 Comment: "LCX83212S" Annotation: "

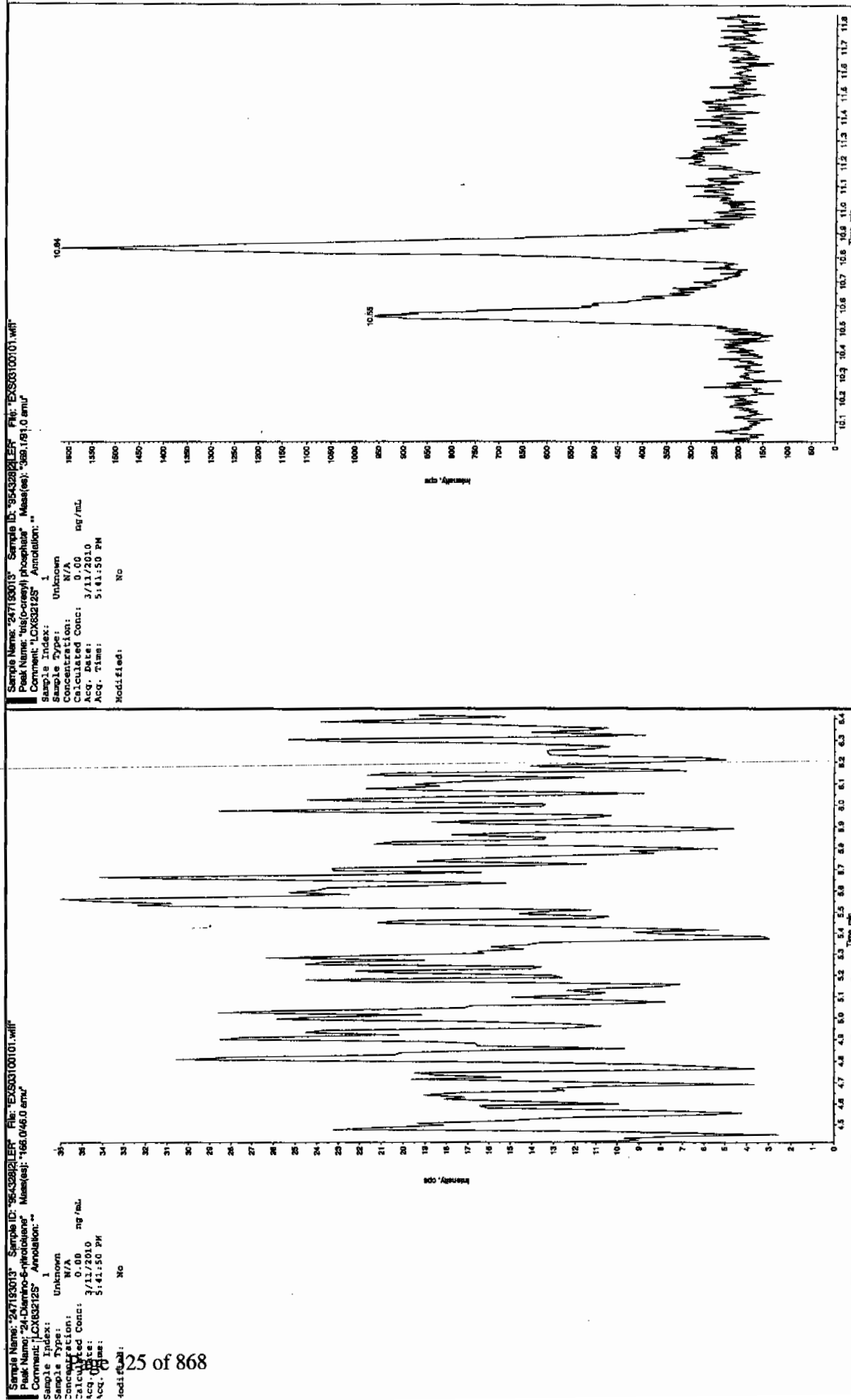
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 5:41:50 PM
 Modified: No



See 3/14/10



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



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8211

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193014

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0401014.wiff

Date Analyzed: 01-APR-10 17:21

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

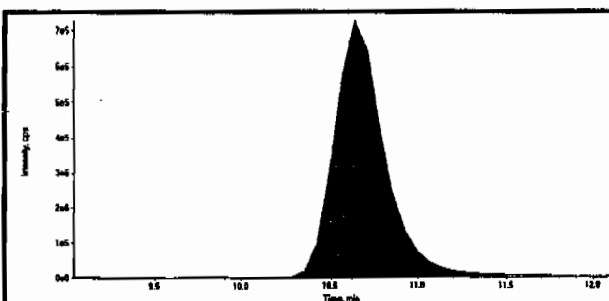
*Concentration =

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

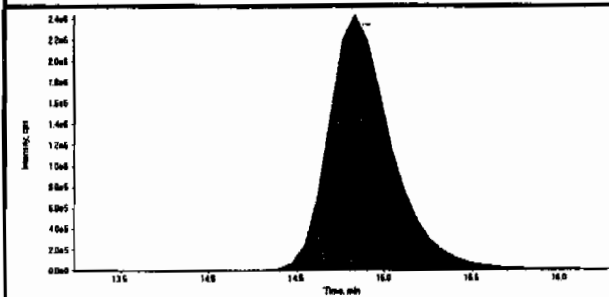
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

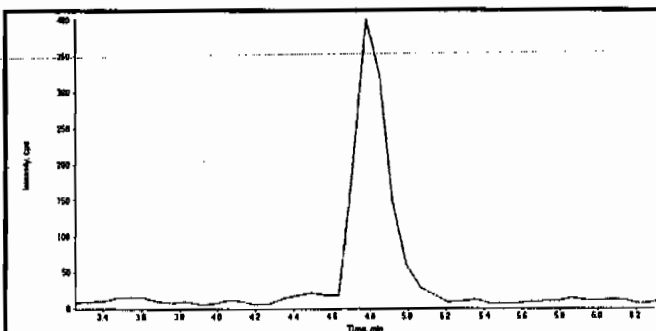
Data File	EXP0401014.wiff	Acquisition Date	4/1/2010 5:21:27 PM
Sample Name	247193014	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



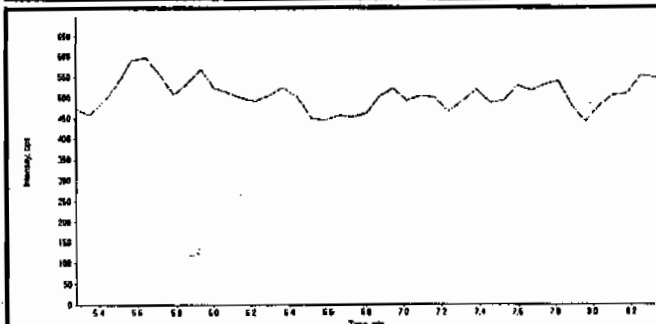
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	14700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	62200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401014.wiff	Acquisition Date	4/1/2010 5:21:27 PM
Sample Name	247193014	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

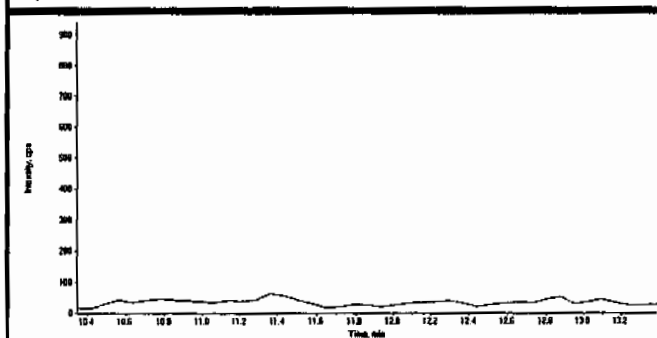
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

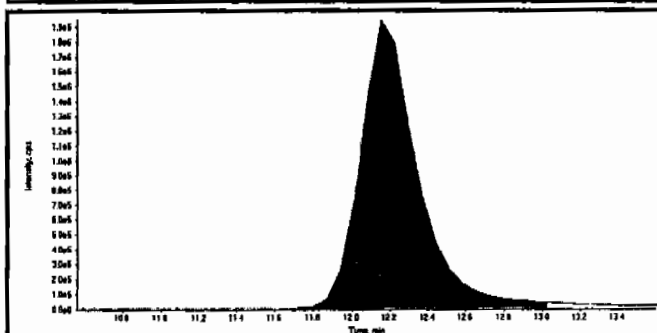
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

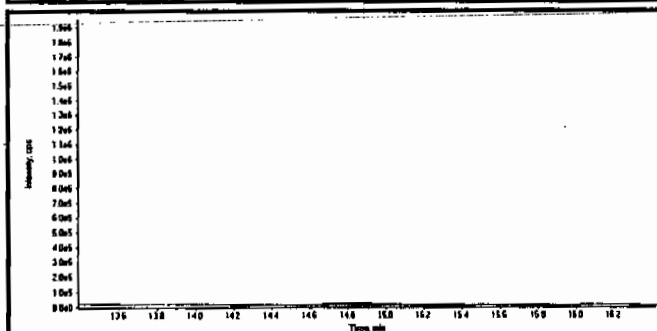
Data File	EXP0401014.wiff	Acquisition Date	4/1/2010 5:21:27 PM
Sample Name	247193014	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



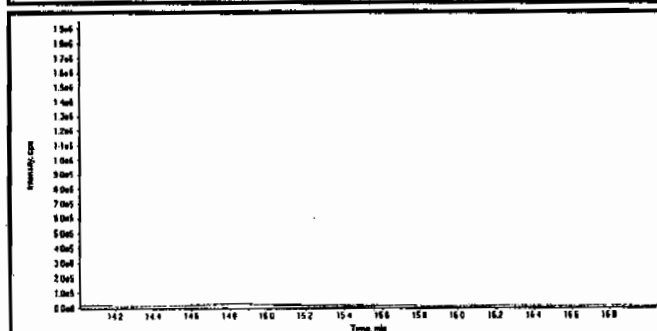
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.1
Actual RT:	12.2
Area Counts:	4.07e+007
Manual Modification	No
Amount:	261. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.9
Actual RT:	14.8
Area Counts:	5.02e+005
Manual Modification	No
Amount:	4.31 (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.5
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401014.wiff	Acquisition Date	4/1/2010 5:21:27 PM
Sample Name	247193014	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

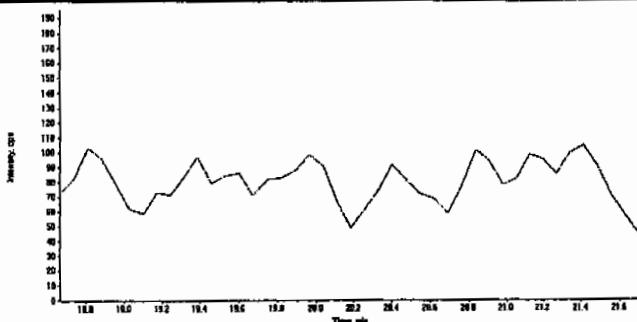
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

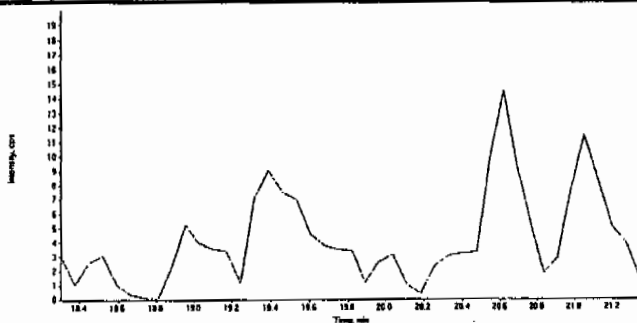
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401014.wiff	Acquisition Date	4/1/2010 5:21:27 PM
Sample Name	247193014	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	040110.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8211

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 247193014

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100102.wiff

Date Analyzed: 11-MAR-10 17:57

Units: ug/kg

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

*Concentration =

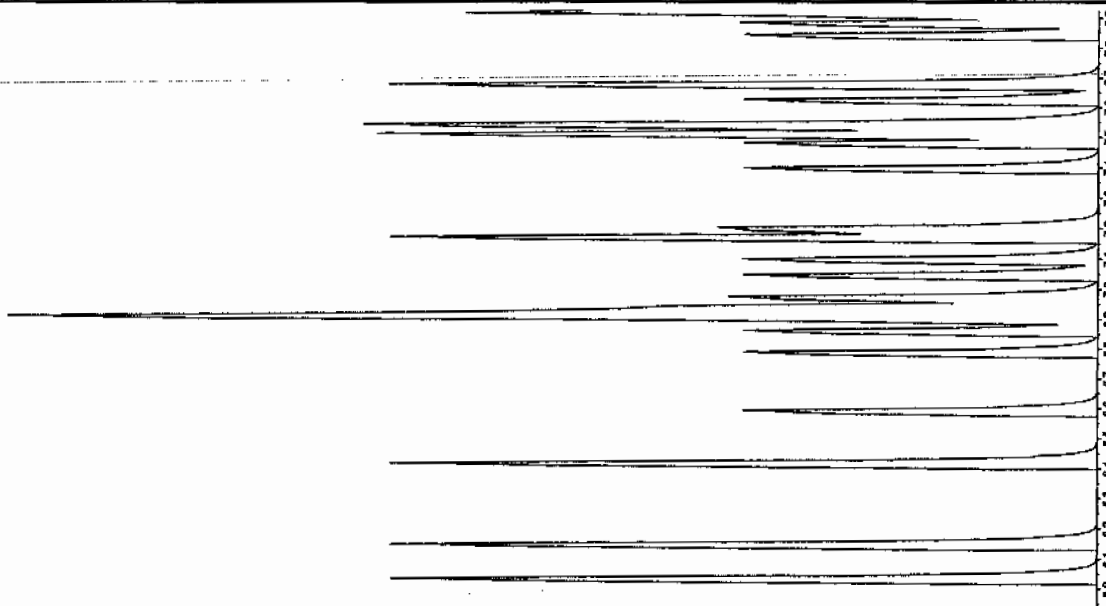
Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		<u>Sample Amount</u>		Factor

Jan 31/4/00

Sample Name: "247183014" Sample ID: "98432821" File: "EX830100102.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/11/2010
 Acq. Time: 5:57:33 PM
 Modified: No

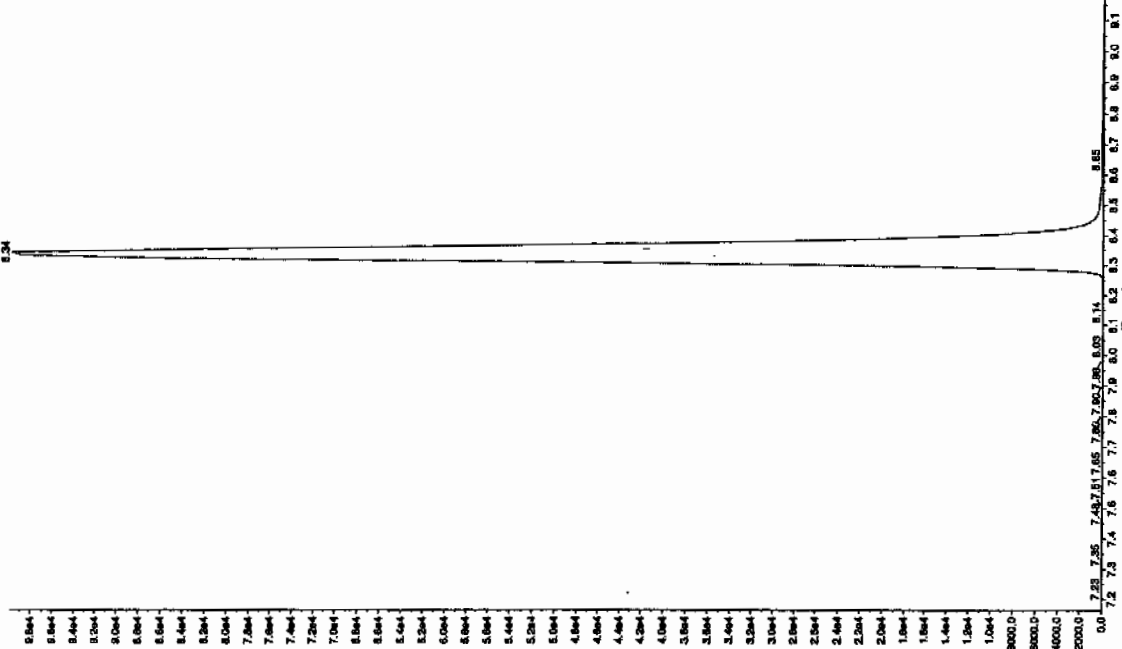
Intensity, cps



Sample Name: "247183014" Sample ID: "98432821" File: "EX830100102.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): 182.046.0 amu
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/11/2010
 Acq. Time: 5:57:33 PM
 Modified: No

Intensity, cps



Jan 31/4/00

Sample Name: "247193014" Sample ID: "854328212" File: "EXS03100102.wif"

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 276. nd/mL

Calculated Conc: 3/11/2010

Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM

Modified: No

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

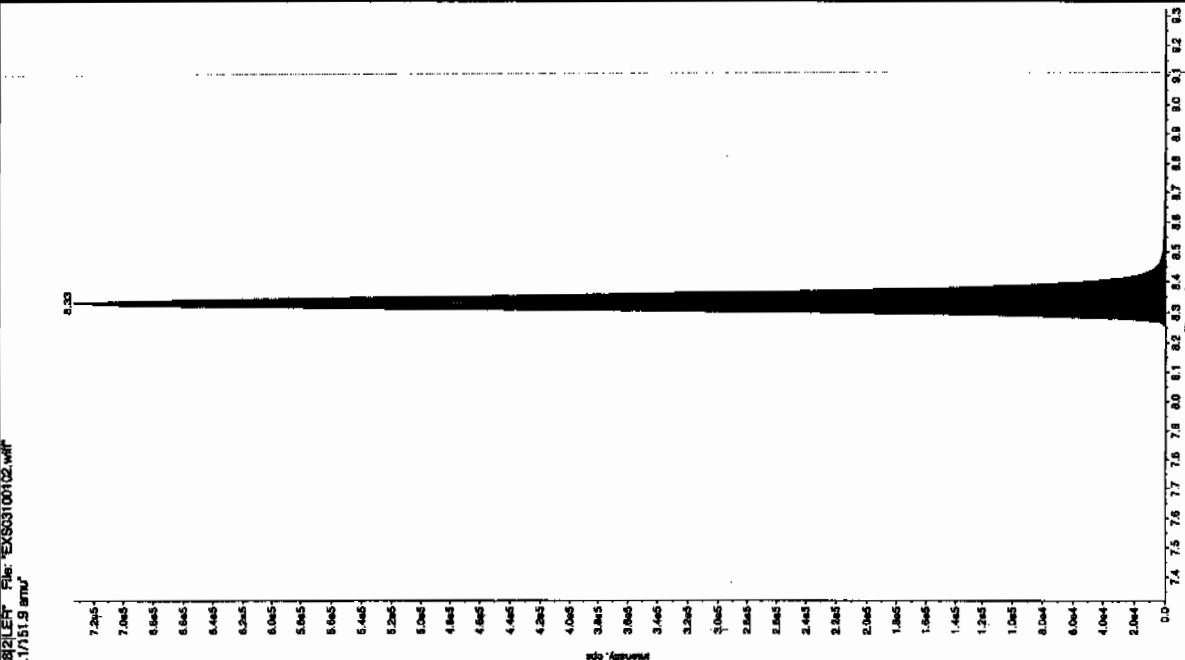
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Concentration: 276. nd/mL

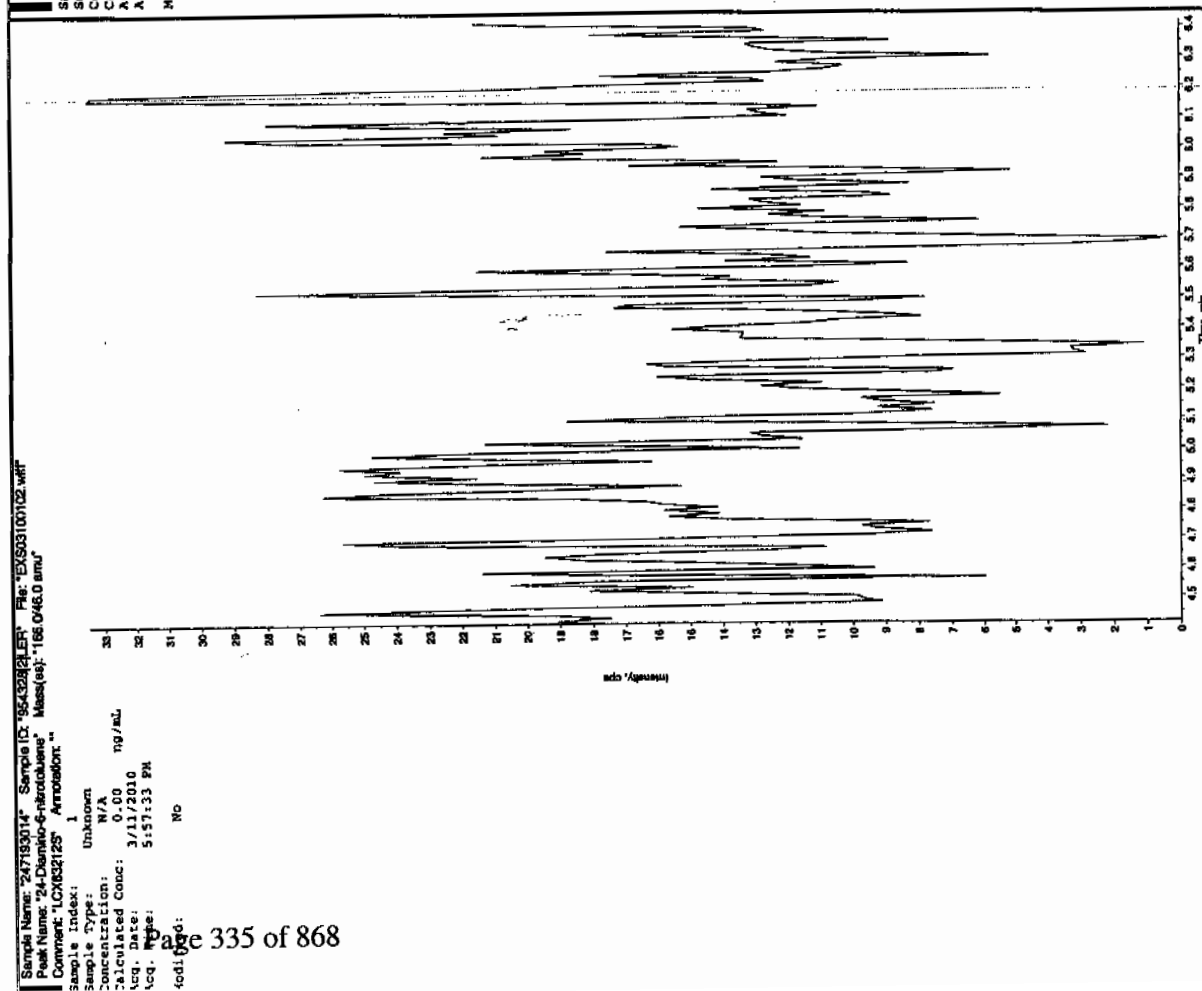
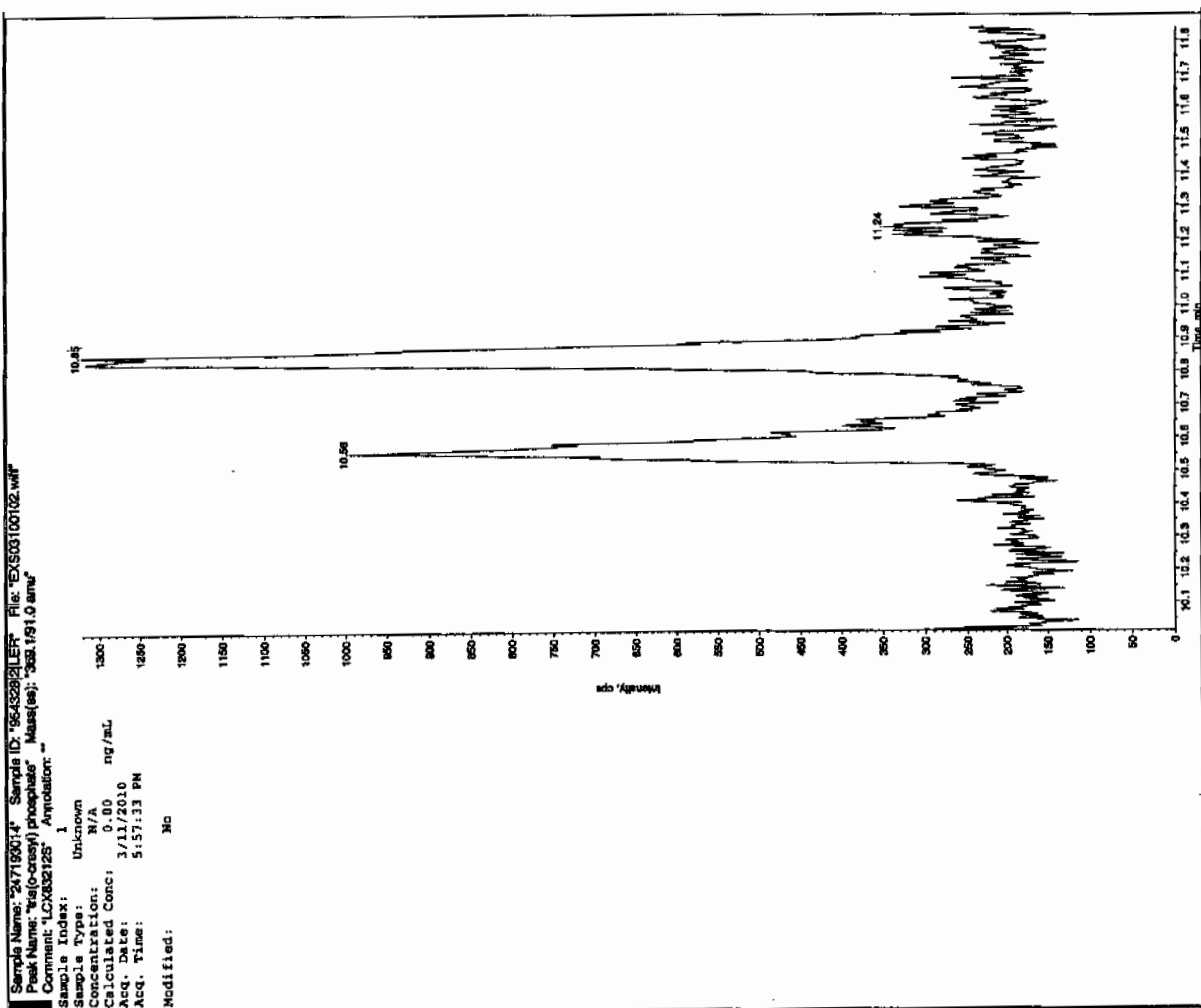
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Acq. Date: 5:57:33 PM

Acq. Time: 5:57:33 PM



JEL 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
MNX	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1864
 Lab Code: GEL Run Date: 01-APR-10 10-MAR-10 30-MAR-10
 LCMSMS Instrument ID: LCMSMS3 Method: 8321A Modified HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Paramname	50	51	52	53	54	55	Ave RF	RSD	Q
1,3,5-Trinitrobenzene	7.79	7.46	7.86	6.7	5.21	6.07	6.848	15.4	
2,4-Dinitrotoluene	.55	.539	.561	.571	.489	.593	0.551	6.46	
2,6-Dinitrotoluene	1.02	.905	.948	.902	.854	.788	0.903	8.91	
2-Amino-4,6-dinitrotoluene	.039	.032	.039	.039	.04	.038	0.038	7.56	
3,4-Dinitrotoluene	1.23	1.15	1.3	1.04	1.11	1.15	1.163	7.66	
4-Amino-2,6-dinitrotoluene	1.14	.916	1.19	.967	.932	.905	1.008	12.4	
HMX	2.42	2.3	2.22	2.06	1.68	2.1	2.130	12.1	
Nitrobenzene	.111	.137	.156	.127	.12	.153	0.134	13.6	
PETN	.016	.012	.014	.013	.013	.016	0.014	11.3	
RDX	1.33	1.4	1.49	1.27	1.17	1.56	1.370	10.5	
Tetryl	5.66	4.9	5.34	4.62	3.73	4.42	4.778	14.3	
m-Dinitrobenzene	2.83	2.79	3.07	2.83	2.49	2.81	2.803	6.6	
m-Nitrotoluene	.009	.009	.009	.009	.009	.01	0.009	5.63	
o-Nitrotoluene	.012	.011	.013	.012	.014	.015	0.013	10.8	
p-Nitrotoluene	.007	.007	.008	.007	.008	.008	0.008	8.49	

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

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1864

Lab Code: GEL

Run Date: 01-APR-10.10-MAR-10.30-MAR-10

LCMSMS Instrument ID: LCMSMS3

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

Calibration Level:	50	51	52	53	54	55	X	X^2	Intercept	COD	Q
Data File:	EXP0330003.wiff	EXP0330004.wiff	EXP0330005.wiff	EXP0330006.wiff	EXP0330007.wiff	EXP0330008.wiff					
Parname:											
2,4,6-Trinitrotoluene	14000000	27700000	109000000	181000000	303000000	337000000	.079	2.97	-.401	.9986	

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

033010ICAL

Peak Name: 13-Dinitrobenzene-d4
 Use as Internal Standard
 Q1/Q3 Masses: 172.05/46.10 amu
 Peak Name: 26-Dinitrotoluene-d3
 Use as Internal Standard
 Q1/Q3 Masses: 184.99/155.00 amu

Peak Name: HMX
 Internal Standard: 13-Dinitrobenzene-d4
 Q1/Q3 Masses: 341.20/46.00 amu

Fit Factor	Mean Response	Factor	Weighting	None	Iterate No
Standard deviation		0.258			
%RSD		12.1			
Use Area					

Peak Name: RDX
 Internal Standard: 13-Dinitrobenzene-d4
 Q1/Q3 Masses: 267.01/46.10 amu

Fit Factor	Mean Response	Factor	Weighting	None	Iterate No
Standard deviation		0.143			
%RSD		10.5			
Use Area					

Peak Name: 135-Trinitrobenzene
 Internal Standard: 13-Dinitrobenzene-d4
 Q1/Q3 Masses: 212.97/182.80 amu

Fit Factor	Mean Response	Factor	Weighting	None	Iterate No
Standard deviation		1.06			
%RSD		15.4			
Use Area					

Peak Name: 13-Dinitrobenzene
 Internal Standard: 13-Dinitrobenzene-d4
 Q1/Q3 Masses: 167.95/137.90 amu

Fit Factor	Mean Response	Factor	Weighting	None	Iterate No
Standard deviation		0.185			

Page 1 *dfm* 04/02/10

for 4/11/10

033010ICAL

%RSD 6.6
Use Area

Peak Name: Tetra[
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 240.95/180.80 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	4.78			
Standard deviation	0.685			
%RSD	14.3			
Use Area				

Peak Name: 246-Trinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 227.12/209.80 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	0.0793			
a1	2.97			
a2	-0.401			
Correlation coefficient	0.9986			
Use Area				

Peak Name: Nitrobenzene
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 123.04/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.134			
Standard deviation	0.0182			
%RSD	13.6			
Use Area				

Peak Name: 34-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.16			
Standard deviation	0.0891			
%RSD	7.66			
Use Area				

033010ICAL

Peak Name: 26-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.904			
Standard deviation	0.0805			
%RSD	8.91			
Use Area				

Peak Name: 24-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.551			
Standard deviation	0.0356			
%RSD	6.46			
Use Area				

Peak Name: 4-Amino-26-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 197.02/167.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.01			
Standard deviation	0.125			
%RSD	12.4			
Use Area				

Peak Name: 2-Amino-46-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 197.02/180.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.0378			
Standard deviation	0.00286			
%RSD	7.56			
Use Area				

Peak Name: 2-Nitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 137.00/46.00 amu

033010ICAL					
None	Iterate	No			
Fit	Mean Response Factor	Weighting			
Factor	0.013				
Standard deviation	0.0014				
%RSD	10.8				
Use Area					
Peak Name: 4-Nitrotoluene					
Internal Standard: 26-Dinitrotoluene-d3					
Q1/Q3 Masses: 137.00/46.00 amu					
Fit	Mean Response Factor	Weighting			
Factor	0.00731				
Standard deviation	0.000621				
%RSD	8.49				
Use Area					
Peak Name: 3-Nitrotoluene					
Internal Standard: 26-Dinitrotoluene-d3					
Q1/Q3 Masses: 137.00/46.00 amu					
Fit	Mean Response Factor	Weighting			
Factor	0.00905				
Standard deviation	0.00051				
%RSD	5.63				
Use Area					
Peak Name: PETN					
Internal Standard: 26-Dinitrotoluene-d3					
Q1/Q3 Masses: 361.06/62.00 amu					
Fit	Mean Response Factor	Weighting			
Factor	0.0142				
Standard deviation	0.0016				
%RSD	11.3				
Use Area					

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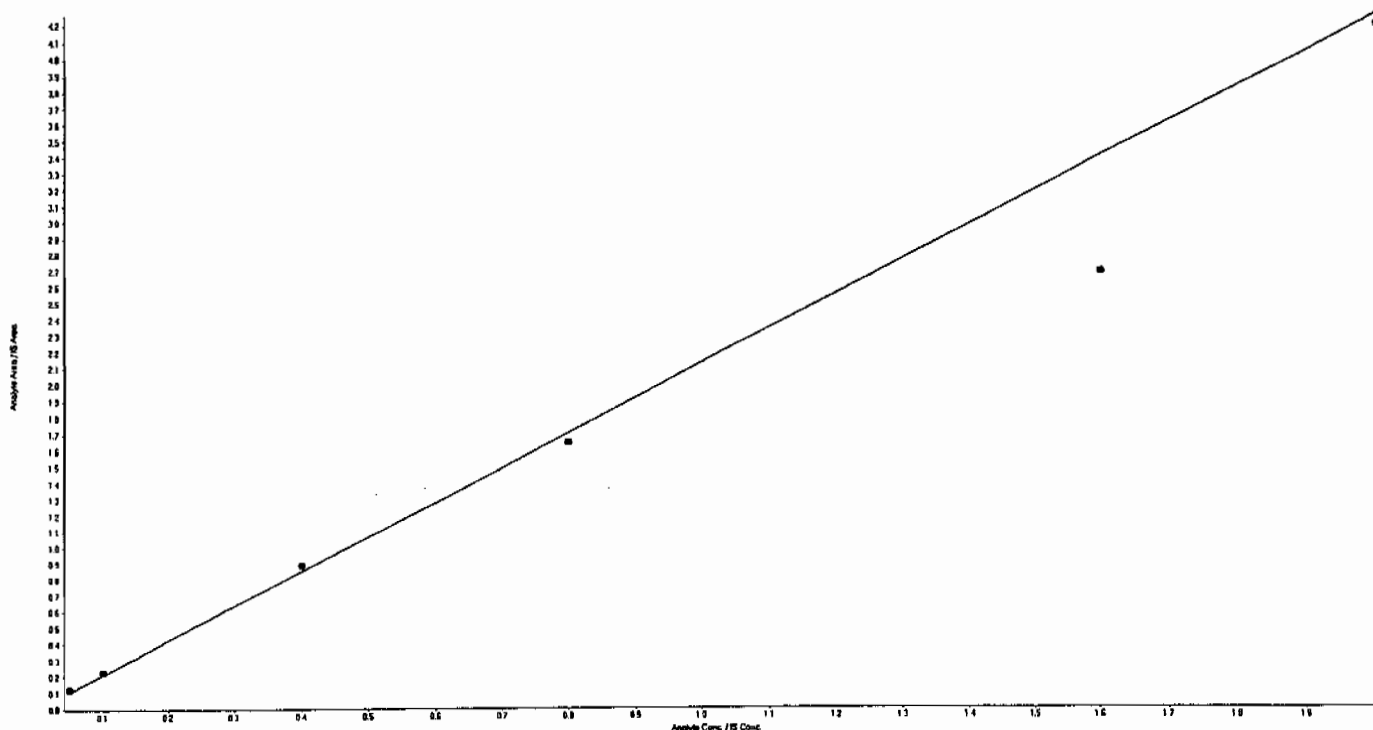
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033010.rdb

Analyte Name: HMX

Regression Equation: $y = 2.13 x$ (std. dev. = 0.258)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.38	113.5
50	54.03	108.1
200	208.96	104.5
400	386.76	96.7
800	630.06	78.8
1000	984.84	98.5



Las
4/2/10
hmc
24/02/10

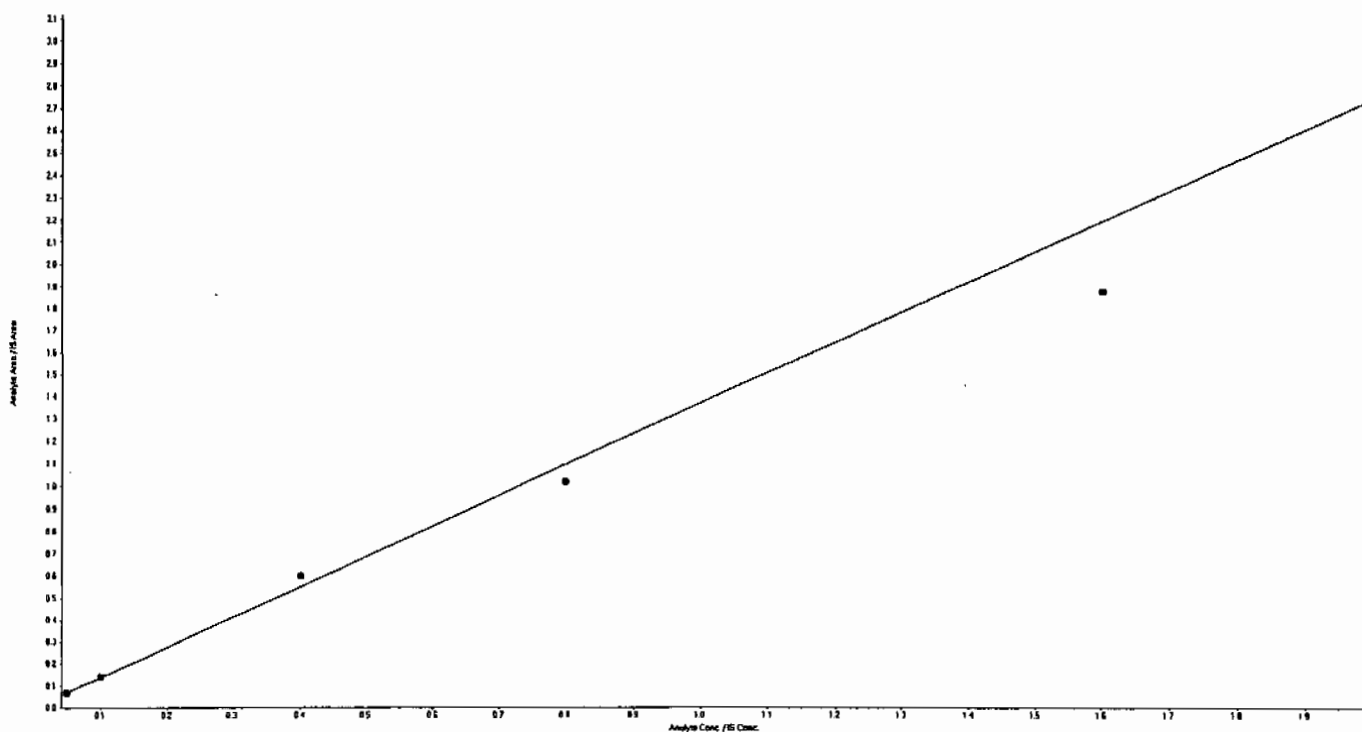
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Analyte Name: RDX

Regression Equation: $y = 1.37x$ (std. dev. = 0.143)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.24	97.0
50	51.04	102.1
200	217.88	108.9
400	371.47	92.9
800	683.21	85.4
1000	1137.35	113.7



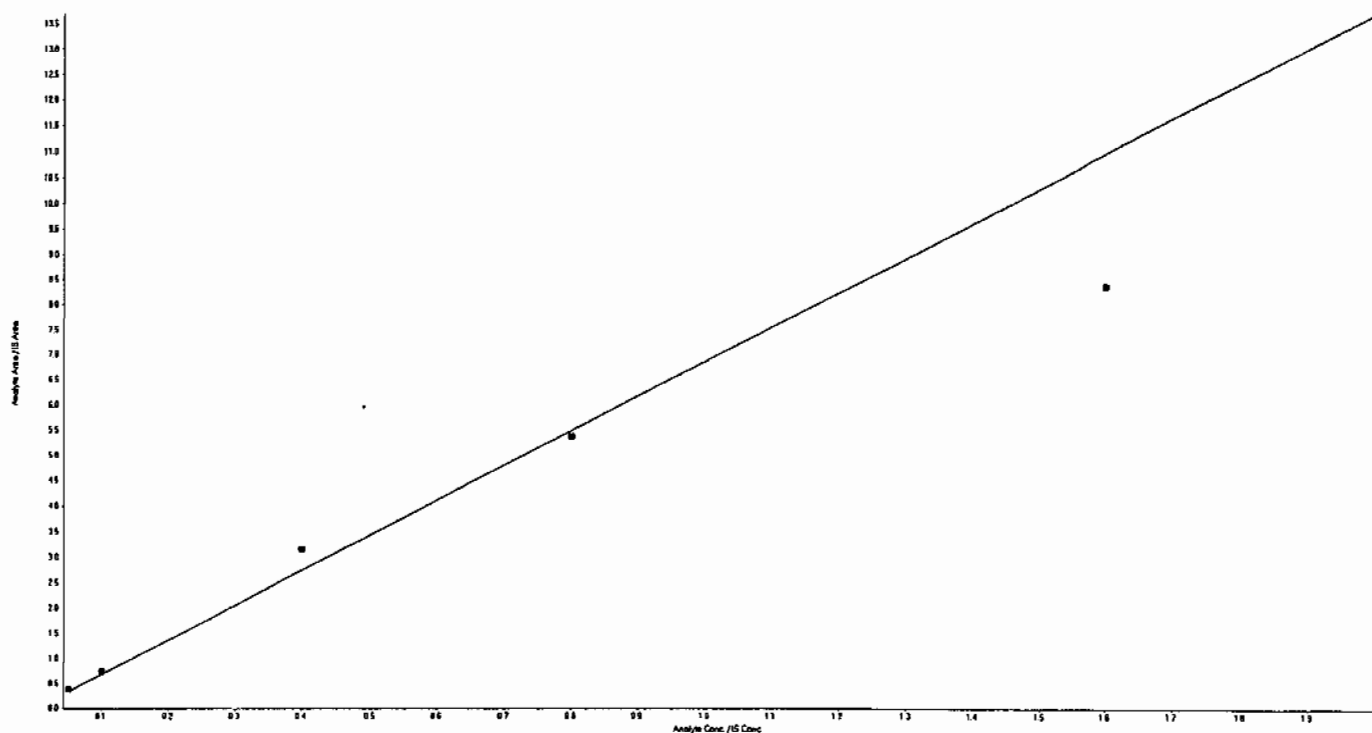
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Analyte Name: 135-Trinitrobenzene

Regression Equation: $y = 6.85x$ (std. dev. = 1.06)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.43	113.7
50	54.48	109.0
200	229.46	114.7
400	391.28	97.8
800	609.13	76.1
1000	886.29	88.6



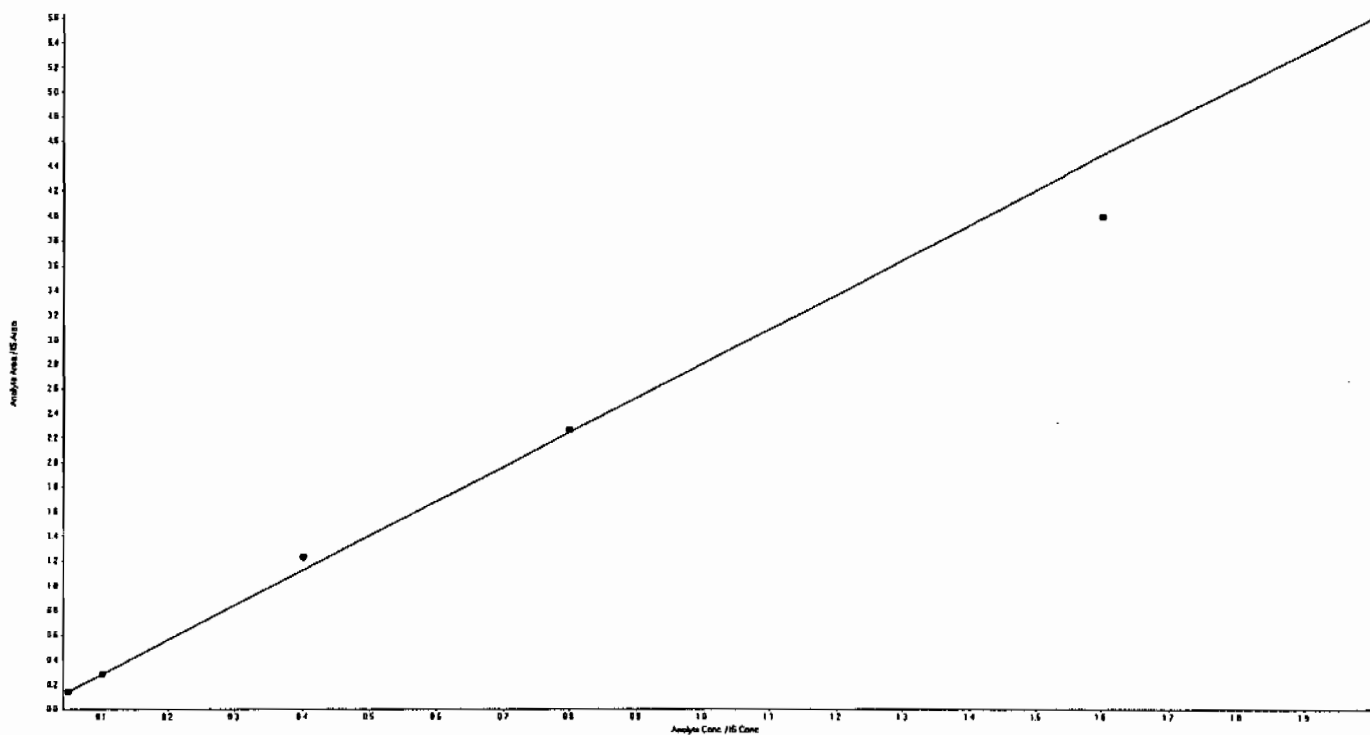
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LCMSMS#3

Analyte Name: 13-Dinitrobenzene

Regression Equation: $y = 2.81 x$ (std. dev. = 0.185)

Expected Concentration	Calculated Concentration	% Accuracy
25	25.25	101.0
50	49.76	99.5
200	219.17	109.6
400	403.25	100.8
800	710.82	88.9
1000	1002.43	100.2



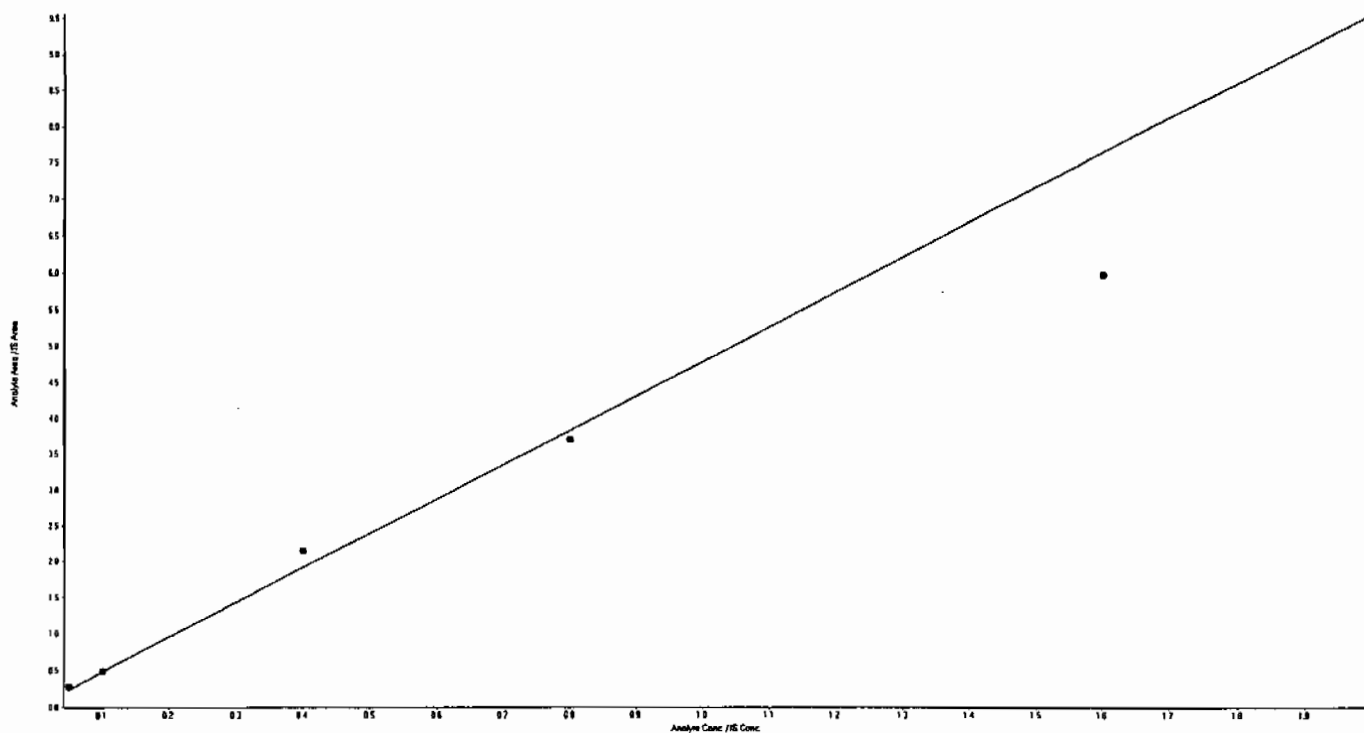
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LCMSMS#3

Analyte Name: Tetryl

Regression Equation: $y = 4.78x$ (std. dev. = 0.685)

Expected Concentration	Calculated Concentration	% Accuracy
25	29.59	118.4
50	51.23	102.5
200	223.60	111.8
400	386.62	96.7
800	625.12	78.1
1000	925.81	92.6



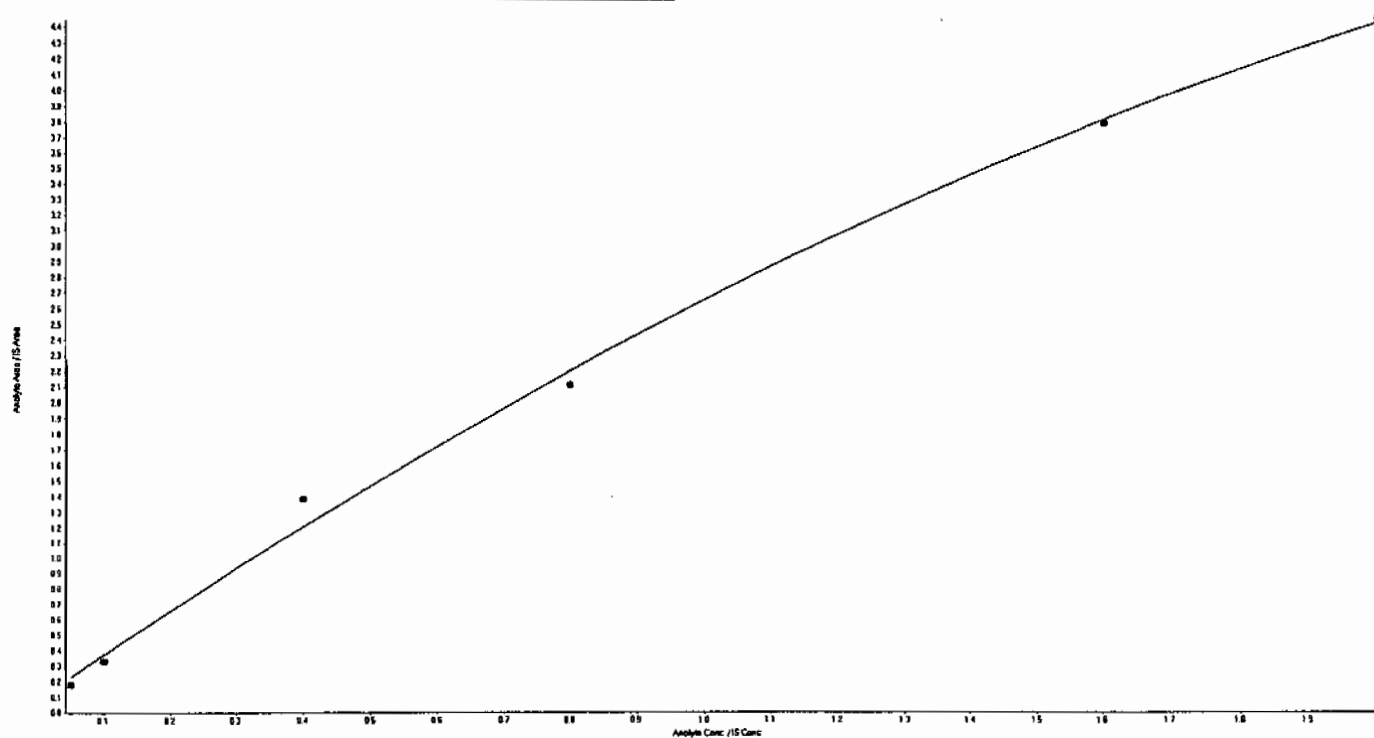
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Analyte Name: 246-Trinitrotoluene

Regression Equation: $y = -0.401 x^2 + 2.97 x + 0.0793$ ($r = 0.9986$)

Expected Concentration	Calculated Concentration	% Accuracy
25	17.25	69.0
50	42.81	85.6
200	233.89	116.9
400	381.07	95.3
800	792.52	99.1
1000	1008.61	100.9



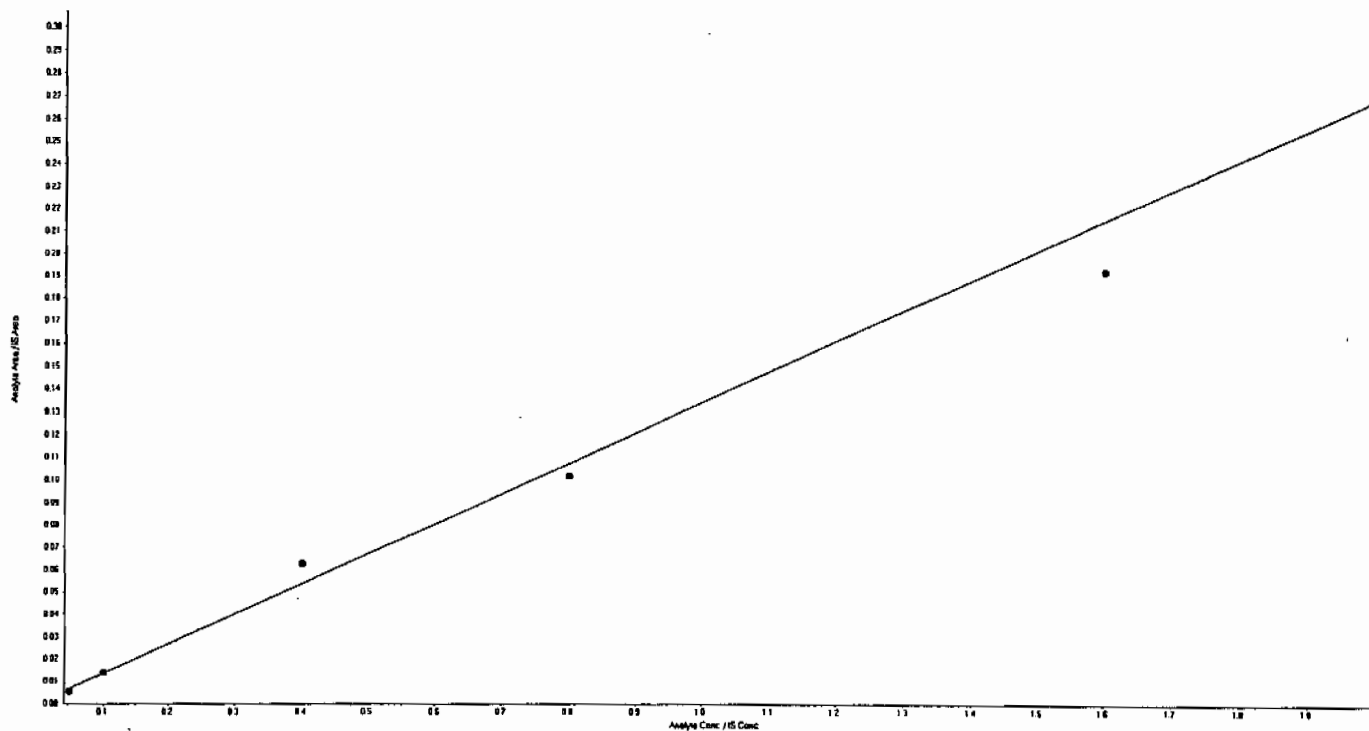
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Analyte Name: Nitrobenzene

Regression Equation: $y = 0.134 x$ (std. dev. = 0.0182)

Expected Concentration	Calculated Concentration	% Accuracy
25	20.65	82.6
50	51.17	102.3
200	232.94	116.5
400	379.76	94.9
800	715.24	89.4
1000	1142.49	114.2



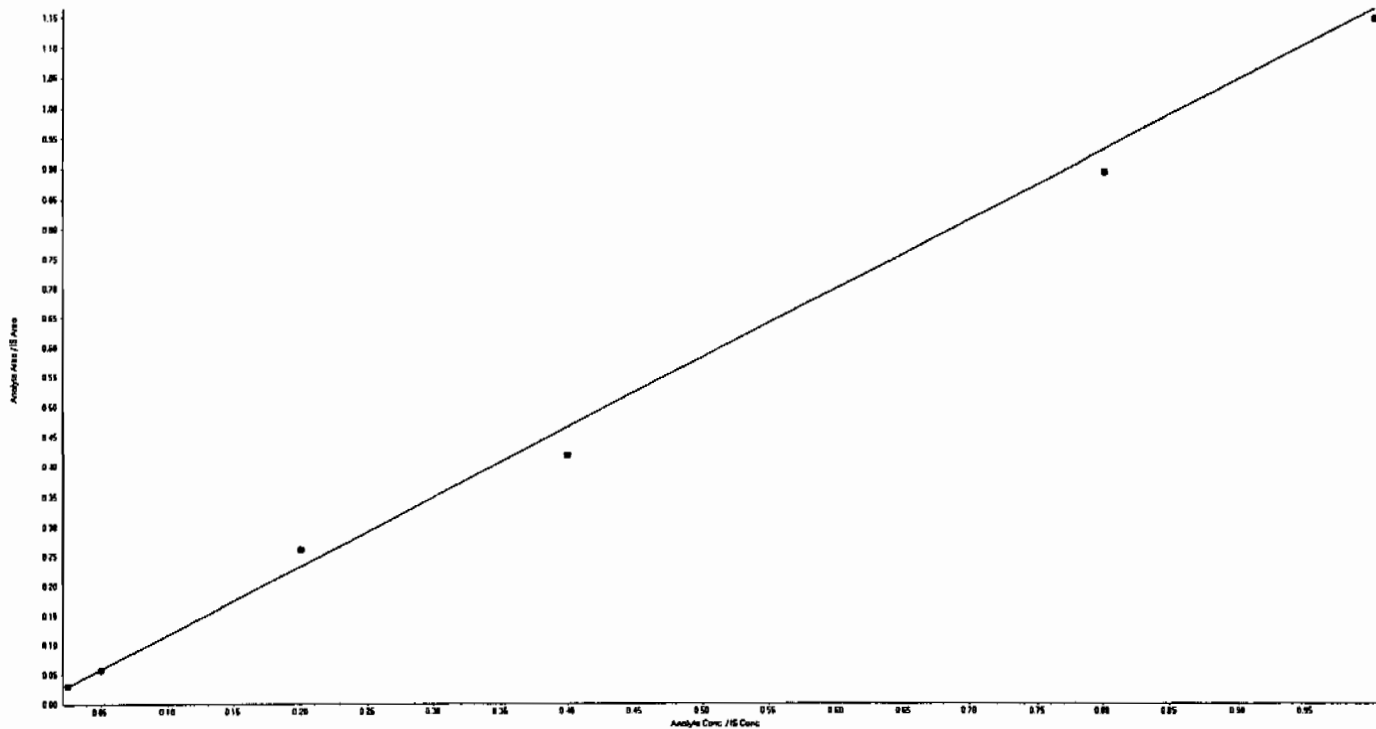
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LCMSMS#3

Analyte Name: 34-dinitrotoluene

Regression Equation: $y = 1.16x$ (std. dev. = 0.0891)

Expected Concentration	Calculated Concentration	% Accuracy
12.5	13.16	105.3
25	24.67	98.7
100	111.82	111.8
200	179.58	89.8
400	383.20	95.8
500	493.05	98.6



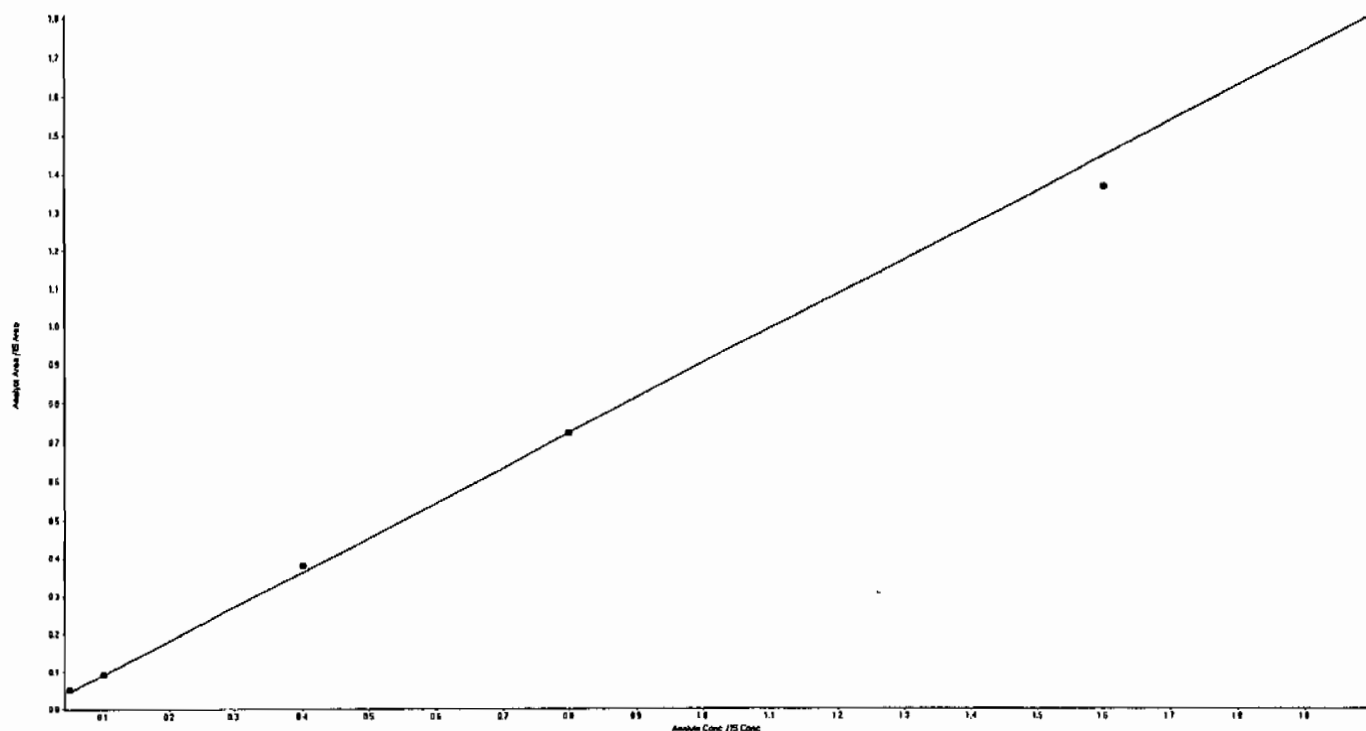
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Analyte Name: 26-dinitrotoluene

Regression Equation: $y = 0.904 x$ (std. dev. = 0.0805)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.35	113.4
50	50.06	100.1
200	209.92	105.0
400	399.32	99.8
800	755.64	94.5
1000	872.44	87.2



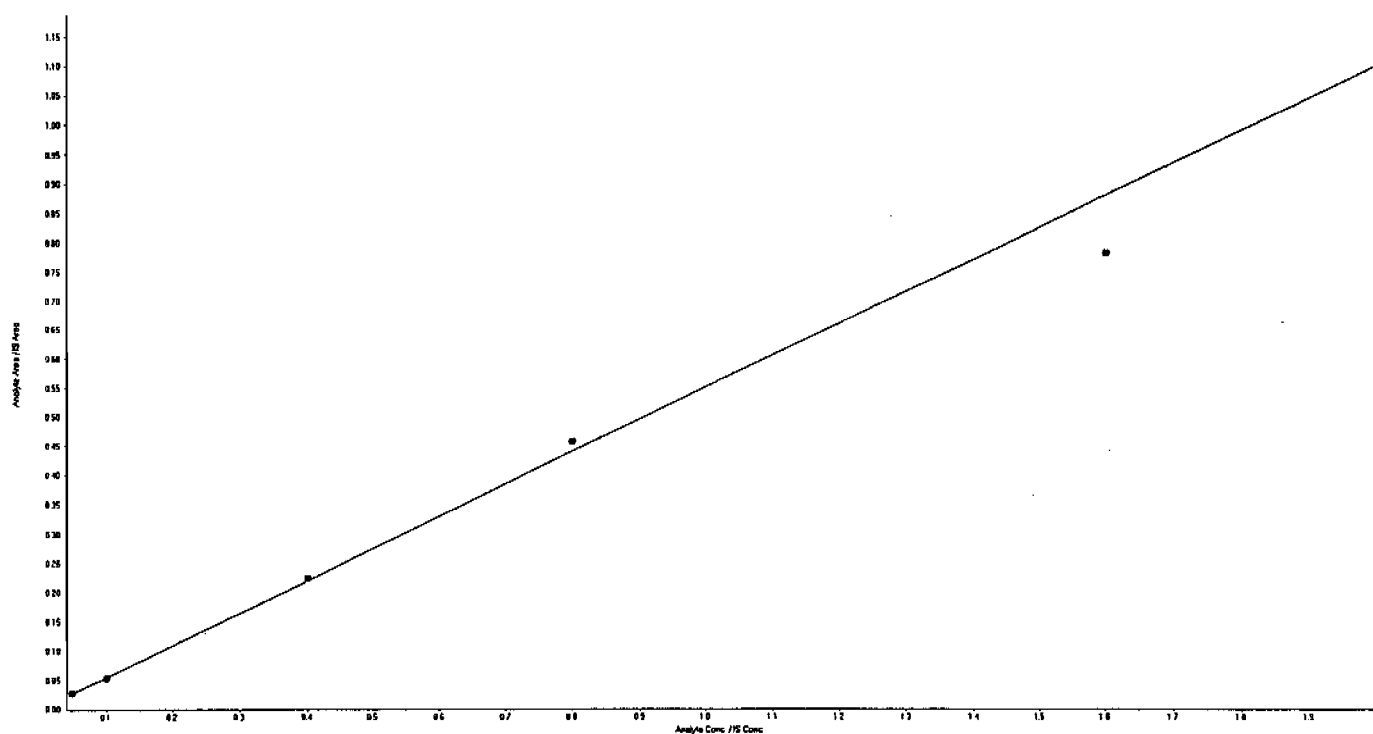
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LCMSMS#3

Analyte Name: 24-dinitrotoluene

Regression Equation: $y = 0.551 x$ (std. dev. = 0.0356)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.97	99.9
50	48.98	98.0
200	203.75	101.9
400	415.08	103.8
800	710.10	88.8
1000	1077.62	107.8



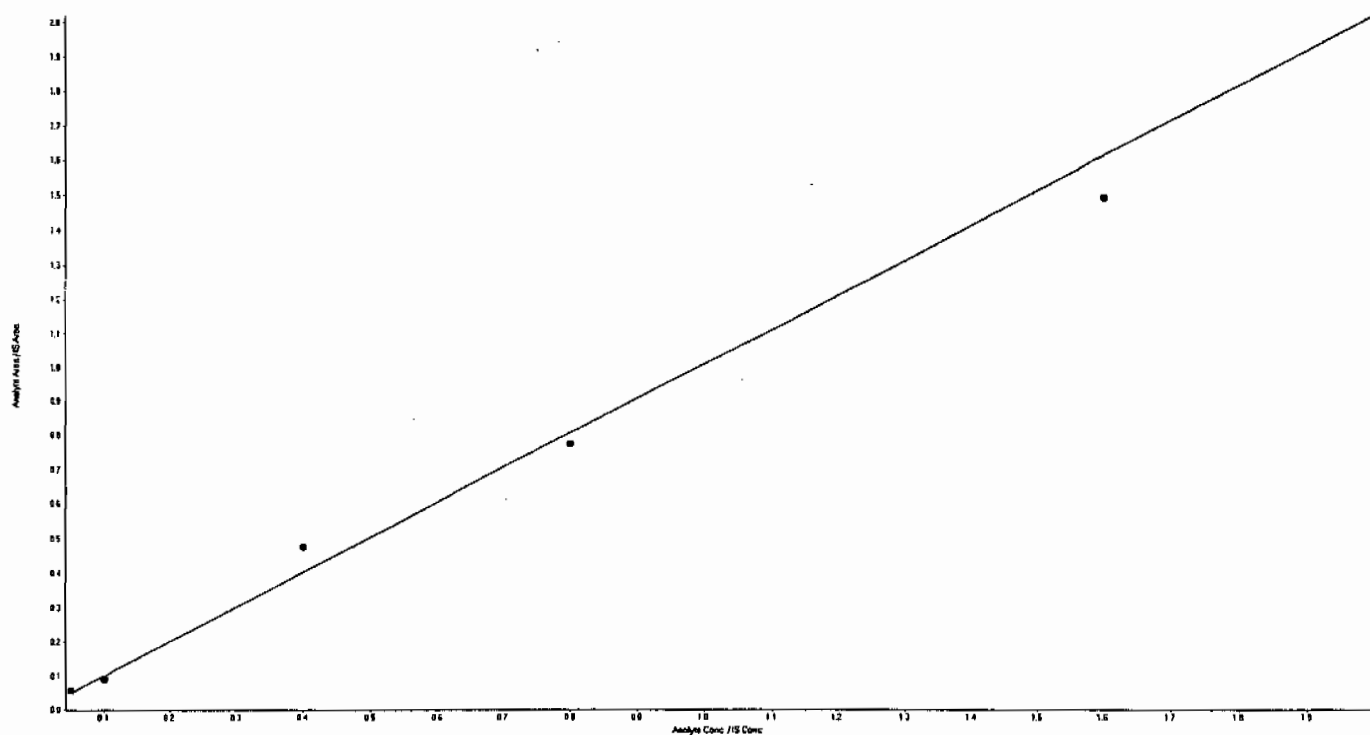
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LCMSMS#3

Analyte Name: 4-Amino-2,6-dinitrotoluene

Regression Equation: $y = 1.01 x$ (std. dev. = 0.125)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.26	113.0
50	45.39	90.8
200	236.28	118.1
400	383.50	95.9
800	739.59	92.4
1000	897.34	89.7



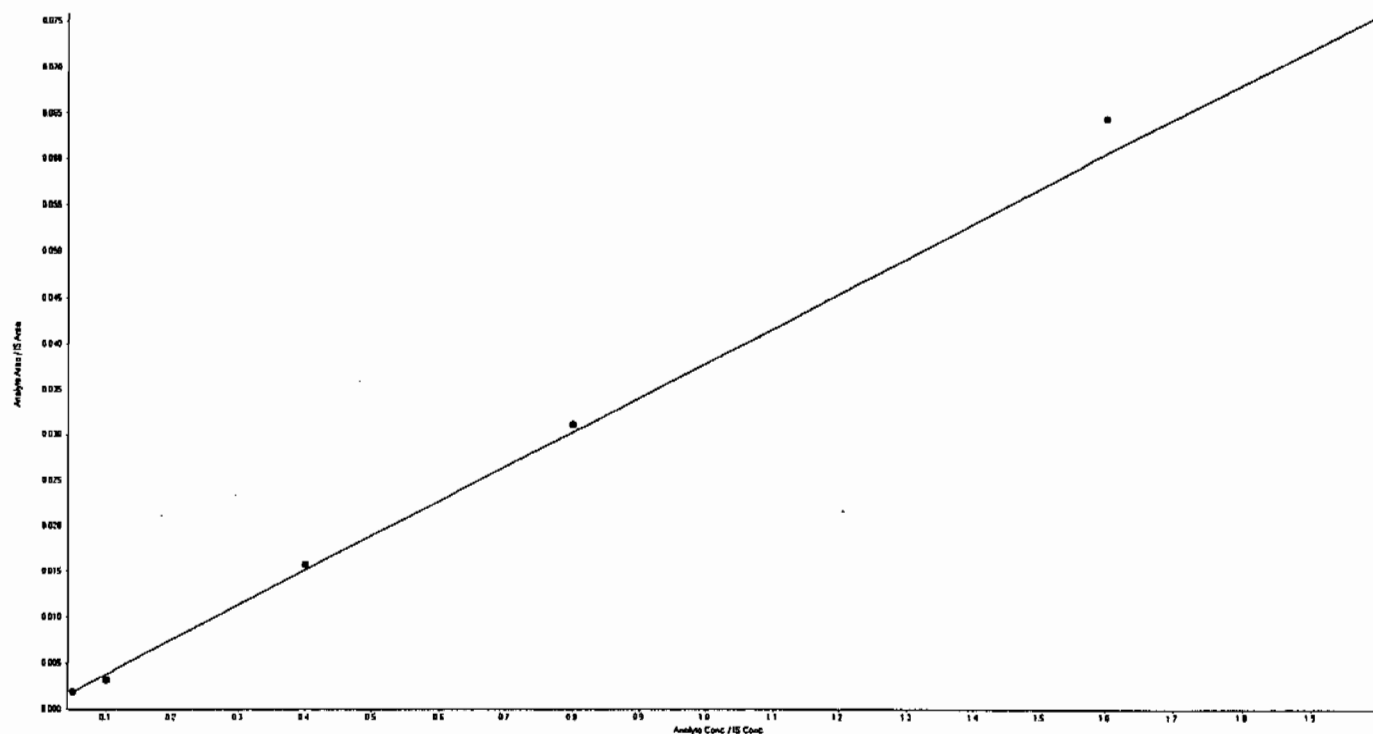
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LCMSMS#3

Analyte Name: 2-Amino-4,6-dinitrotoluene

Regression Equation: $y = 0.0378x$ (std. dev. = 0.00286)

Expected Concentration	Calculated Concentration	% Accuracy
25	25.52	102.1
50	42.63	85.3
200	207.98	104.0
400	411.29	102.8
800	850.72	106.3
1000	995.09	99.5



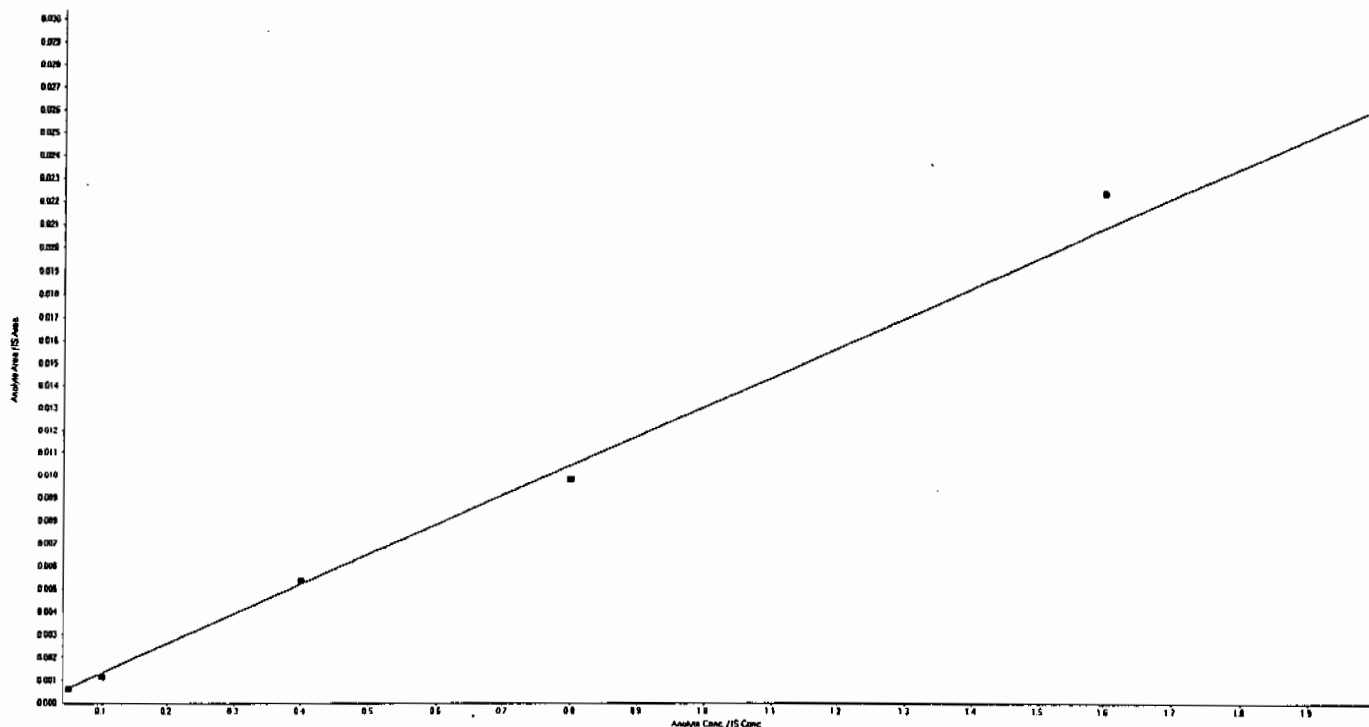
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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Analyte Name: 2-Nitrotoluene

Regression Equation: $y = 0.013 x$ (std. dev. = 0.0014)

Expected Concentration	Calculated Concentration	% Accuracy
25	23.00	92.0
50	43.88	87.8
200	205.28	102.6
400	375.91	94.0
800	857.51	107.2
1000	1164.27	116.4



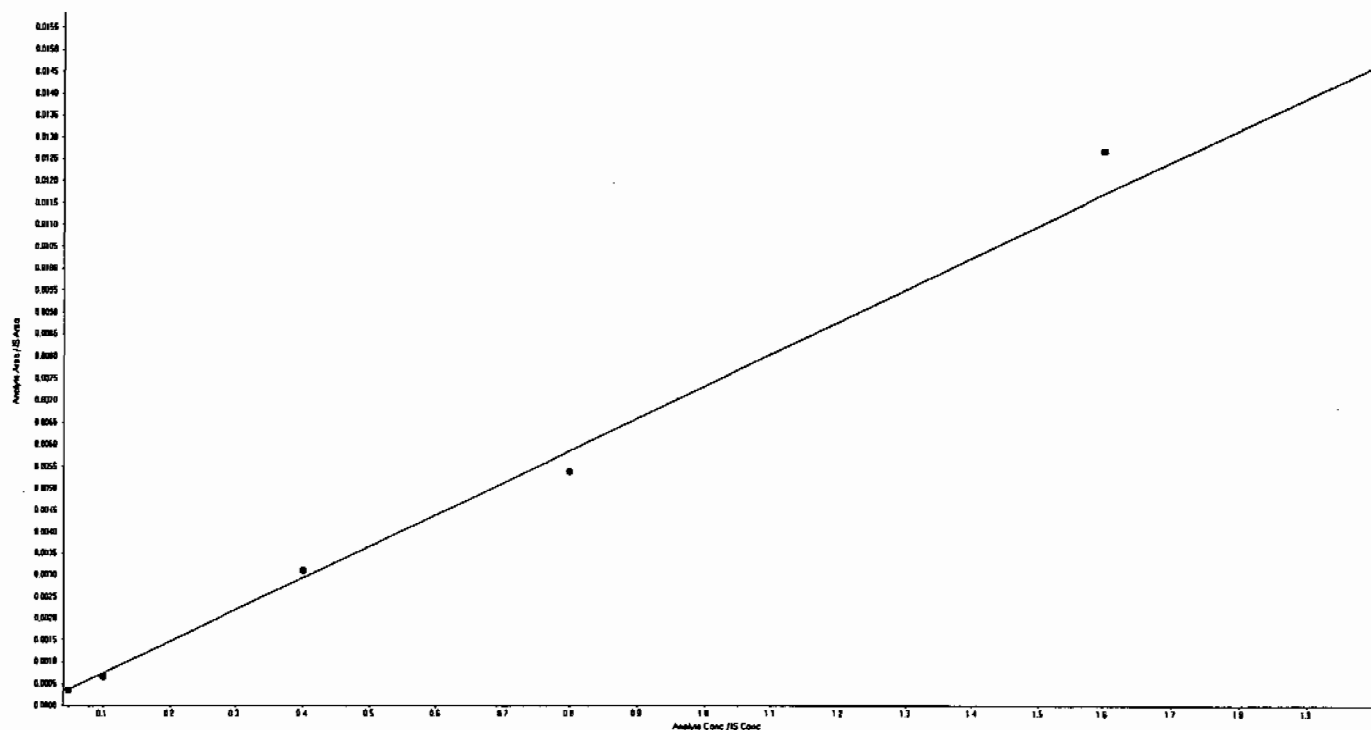
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Analyte Name: 4-Nitrotoluene

Regression Equation: $y = 0.00731 x$ (std. dev. = 0.000621)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.07	96.3
50	44.81	89.6
200	212.01	106.0
400	366.88	91.7
800	866.02	108.3
1000	1081.11	108.1



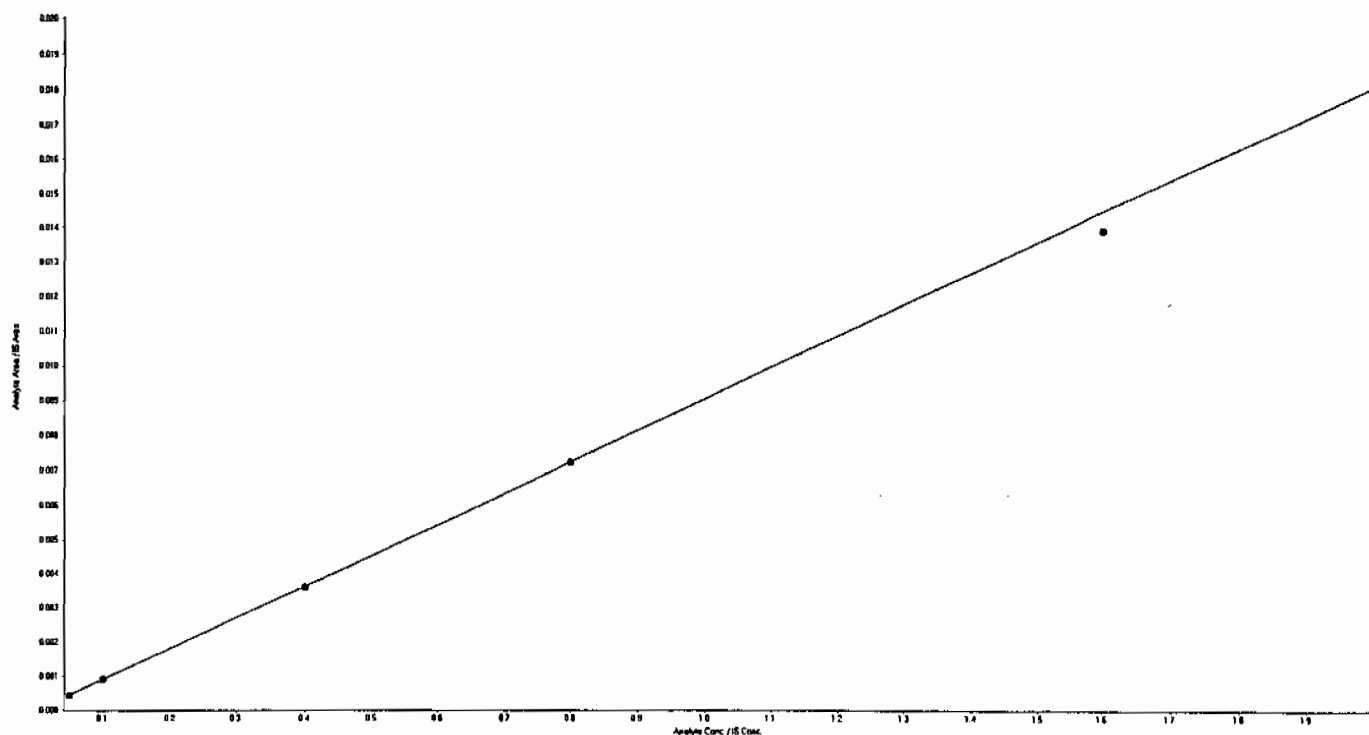
GEL Laboratories, LLC
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LCMSMS#3

Analyte Name: 3-Nitrotoluene

Regression Equation: $y = 0.00905 x$ (std. dev. = 0.00051)

Expected Concentration	Calculated Concentration	% Accuracy
25	23.72	94.9
50	49.58	99.2
200	198.94	99.5
400	398.92	99.7
800	768.05	96.0
1000	1107.49	110.7



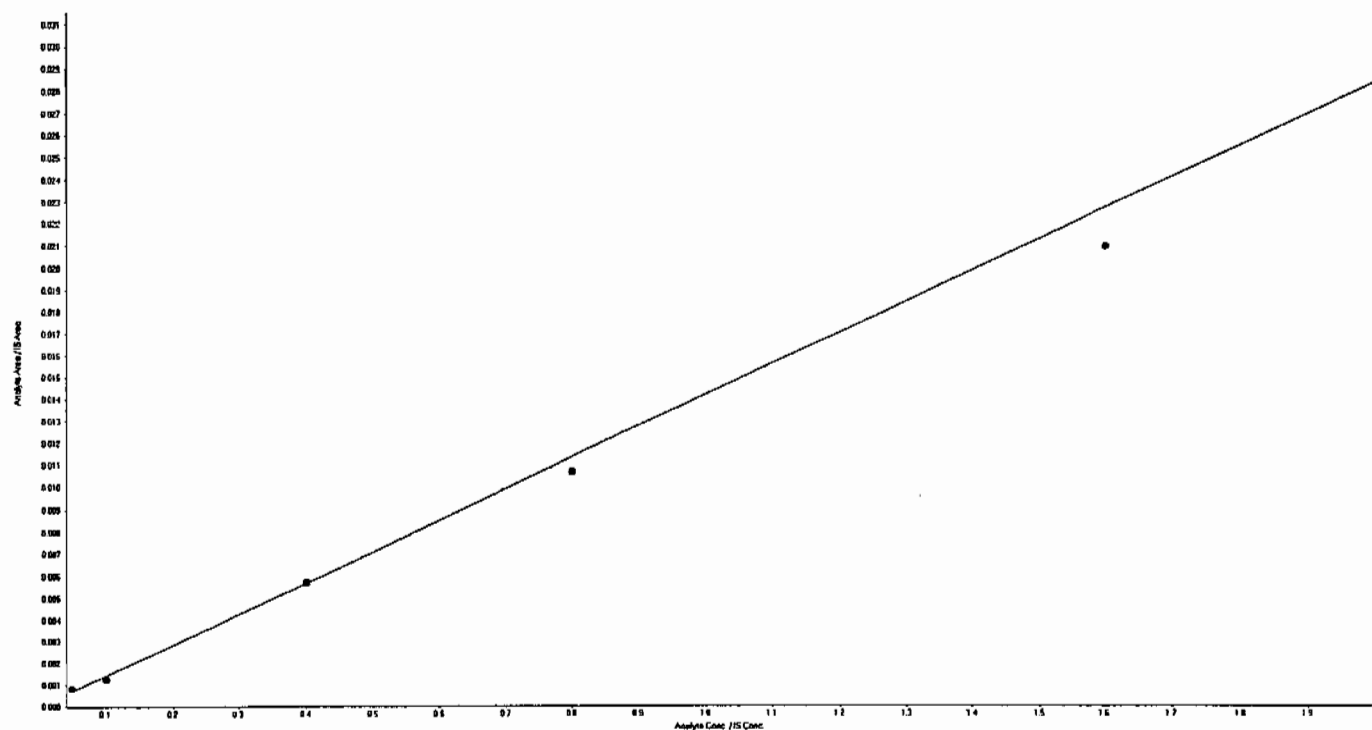
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Analyte Name: PETN

Regression Equation: $y = 0.0142 x$ (std. dev. = 0.0016)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.90	115.6
50	43.48	87.0
200	201.08	100.5
400	375.40	93.9
800	736.85	92.1
1000	1109.50	110.9



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0330010.wiff

Analysis Date: 30-MAR-10 12:34

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	562	94	
2,4,6-Trinitrotoluene	600	610	102	
2,4-Dinitrotoluene	600	663	111	
2,6-Dinitrotoluene	600	537	90	
2-Amino-4,6-dinitrotoluene	600	513	86	
3,4-Dinitrotoluene	300	309	103	
4-Amino-2,6-dinitrotoluene	600	607	101	
HMX	600	503	84	
Nitrobenzene	600	703	117	
PETN	600	569	95	
RDX	600	649	108	
Tetryl	600	604	101	
m-Dinitrobenzene	600	593	99	
m-Nitrotoluene	600	591	99	
o-Nitrotoluene	600	651	108	
p-Nitrotoluene	600	686	114	

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%

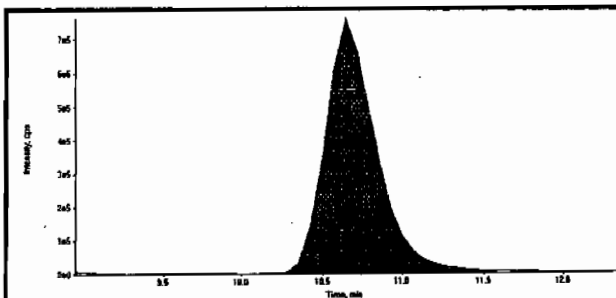
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

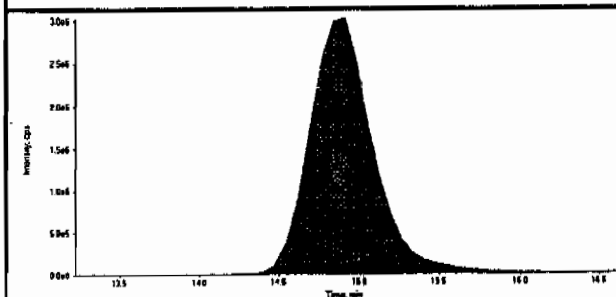
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LCMSMS#3

Data File	EXP0330010.wiff	Acquisition Date	3/30/2010 12:34:33 PM
Sample Name	WXX100330-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



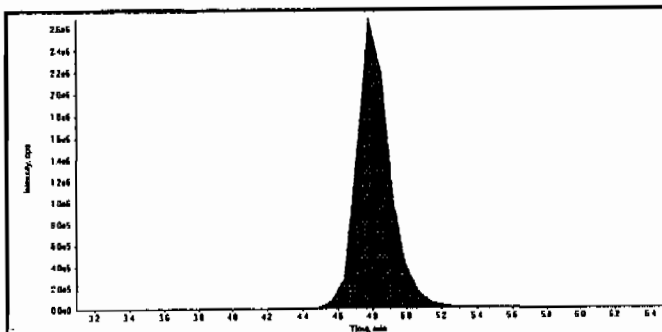
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	16900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

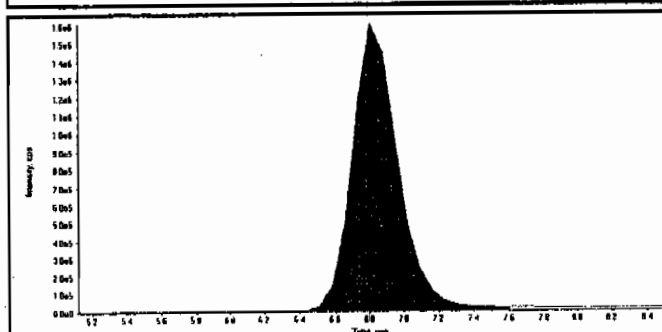


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	83700000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.63e+007
Manual Modification	No
Amount:	503. (ng/mL)
% Accuracy:	83.90



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	3.01e+007
Manual Modification	No
Amount:	649. (ng/mL)
% Accuracy:	108.00

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330010.wiff	Acquisition Date	3/30/2010 12:34:33 PM
Sample Name	WXX100330-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	9.12
	Area Counts:	1.30e+008
	Manual Modification	No
	Amount:	562. (ng/mL)
	% Accuracy:	93.70

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	5.63e+007
	Manual Modification	No
	Amount:	593. (ng/mL)
	% Accuracy:	98.80

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	10.9
	Area Counts:	9.77e+007
	Manual Modification	No
	Amount:	604. (ng/mL)
	% Accuracy:	101.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	2.60e+008
	Manual Modification	No
	Amount:	610. (ng/mL)
	% Accuracy:	102.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

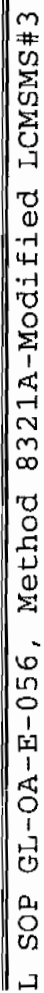
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Sample Name	WXX100330-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	3.20e+006
	Manual Modification	No
	Amount:	703. (ng/mL)
	% Accuracy:	117.00

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	6.03e+007
	Manual Modification	No
	Amount:	309. (ng/mL)
	% Accuracy:	103.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	8.12e+007
	Manual Modification	No
	Amount:	537. (ng/mL)
	% Accuracy:	89.50

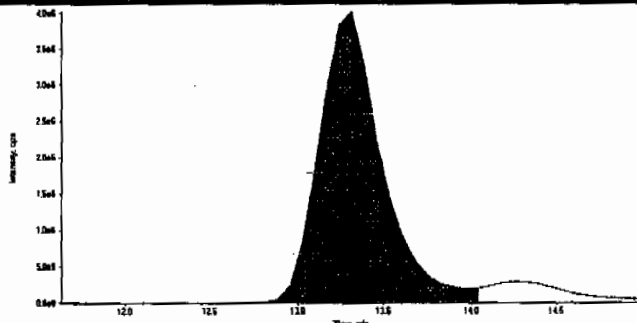
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	6.12e+007
	Manual Modification	No
	Amount:	663. (ng/mL)
	% Accuracy:	111.00

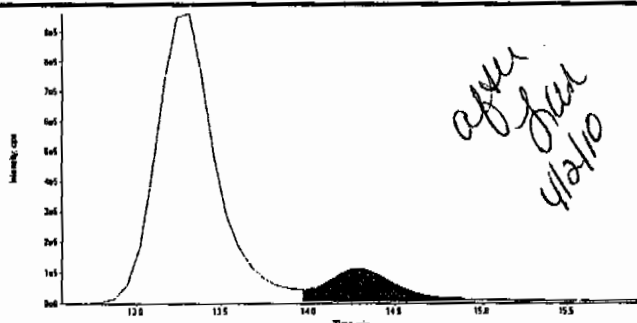


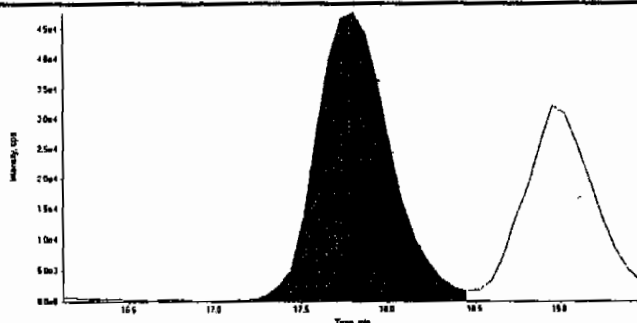
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

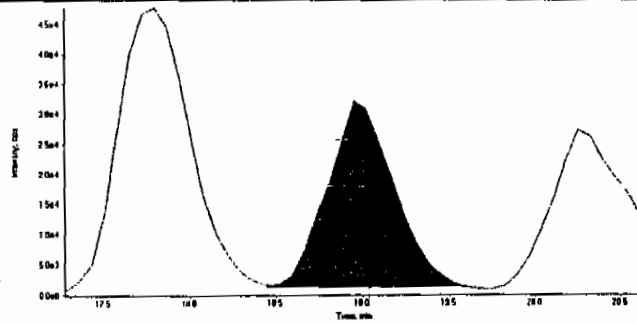
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LCMSMS#3

Data File	EXP0330010.wiff	Acquisition Date	3/30/2010 12:34:33 PM
Sample Name	WXX100330-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	1.02e+008
	Manual Modification	No
	Amount:	607. (ng/mL)
	% Accuracy:	101.00

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	14.3
	Area Counts:	3.25e+006
	Manual Modification	Yes
	Amount:	513. (ng/mL)
	% Accuracy:	85.50

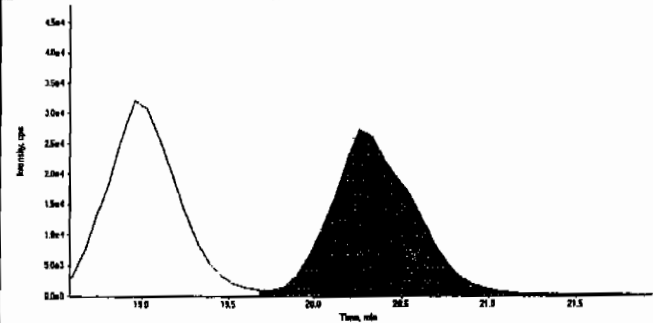
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	17.8
	Area Counts:	1.42e+006
	Manual Modification	No
	Amount:	651. (ng/mL)
	% Accuracy:	108.00

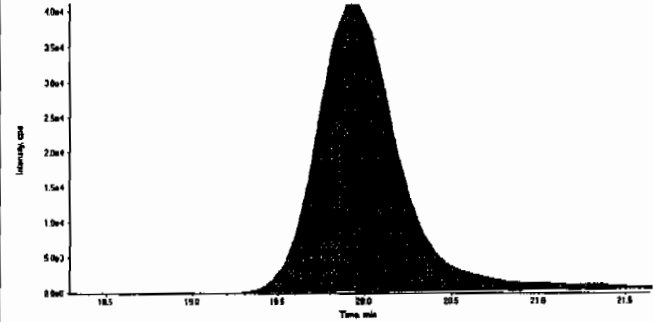
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	19.0
	Area Counts:	8.40e+005
	Manual Modification	No
	Amount:	686. (ng/mL)
	% Accuracy:	114.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330010.wiff	Acquisition Date	3/30/2010 12:34:33 PM
Sample Name	WXX100330-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	20.3
	Area Counts:	8.95e+005
	Manual Modification	No
	Amount:	591. (ng/mL)
	% Accuracy:	98.50

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	20.0
	Area Counts:	1.35e+006
	Manual Modification	No
	Amount:	569. (ng/mL)
	% Accuracy:	94.90

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/30/10
 Time of Injection 1234
 Standard Number WXX100330-56ICV
 Data File EXP0330010a

HMX	83.9
RDX	108.0
135-Trinitrobenzene	93.7
13-Dinitrobenzene	98.8
Tetryl	101.0
246-Trinitrotoluene	102.0
Nitrobenzene	117.0
34-dinitrotoluene	103.0
26-dinitrotoluene	89.5
24-dinitrotoluene	111.0
4-Amino-26-dinitrotoluene	101.0
2-Amino-46-dinitrotoluene	85.5
2-Nitrotoluene	108.0
4-Nitrotoluene	114.0
3-Nitrotoluene	98.5
PETN	94.9

TOTAL

1609.8

time reported

AVERAGE

✓ 100.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Jan
3/31/10

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No:

10-1864

Lab Code: GEL

Run Date:

01-APR-10-10-MAR-10-30-MAR-10

LCMSMS Instrument ID: LCMSMS3

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	50	51	52	53	54	55	Ave RF	RSD	Q
Calibration Level:	EXP0401003.wi	EXP0401004.wi	EXP0401005.wi	EXP0401006.wi	EXP0401007.wi	EXP0401008.wi			
Data File:									
1,3,5-Trinitrobenzene	7.2	8.28	8.65	7.25	6.99	6.65	7.503	10.4	
2,4,6-Trinitrotoluene	3.45	3.05	3.46	2.66	2.38	2.36	2.893	17.3	
2,4-Dinitrotoluene	.65	.64	.634	.568	.521	.638	0.609	8.51	
2,6-Dinitrotoluene	1.1	.999	.948	.945	.778	.851	0.937	12	
2-Amino-4,6-dinitrotoluene	.042	.047	.046	.053	.04	.047	0.046	9.22	
3,4-Dinitrotoluene	1.35	1.23	1.33	1.22	1.08	1.28	1.248	7.76	
4-Amino-2,6-dinitrotoluene	1.31	1.33	1.43	1.25	1.08	1.11	1.252	10.6	
HMX	3.75	3.23	3.37	3.16	2.93	3.01	3.242	9.07	
Nitrobenzene	.141	.158	.153	.145	.157	.169	0.154	6.65	
PETN	.016	.016	.016	.016	.015	.019	0.016	8.26	
RDX	1.78	2	1.98	1.79	1.94	2.04	1.922	5.76	
m-Dinitrobenzene	3.04	3.24	2.85	2.65	2.71	2.73	2.870	8.01	
m-Nitrotoluene	.011	.011	.011	.01	.01	.012	0.011	4.99	
o-Nitrotoluene	.018	.017	.019	.017	.017	.021	0.018	8.9	
p-Nitrotoluene	.008	.009	.01	.009	.009	.011	0.009	9.1	

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

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1864

Lab Code: GEL

Run Date: 01-APR-10.10-MAR-10.30-MAR-10

LCMSMS Instrument ID: LCMSMS3

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

Calibration Level:	50	51	52	53	54	55	X	X^2	Intercept	COD	Q
Data File:	EXP0401003.wiff	EXP0401004.wiff	EXP0401005.wiff	EXP0401006.wiff	EXP0401007.wiff	EXP0401008.wiff					
Parname:											
Tetryl	1960000	5870000	29300000	54400000	104000000	1180000000	-.106	5.83	-393	.9999	

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

Sam
4/10/10

040110ICAL

Peak Name: 13-Dinitrobenzene-d4
Use as Internal Standard
Q1/Q3 Masses: 172.05/46.10 amu
Peak Name: 26-Dinitrotoluene-d3
Use as Internal Standard
Q1/Q3 Masses: 184.99/155.00 amu

Peak Name: HMX
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 341.20/46.00 amu

Fit Mean Response Factor Weighting
Factor 3.24
Standard deviation 0.294
%RSD 9.07
Use Area

None Iterate No

Peak Name: RDX
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 267.01/46.10 amu

Fit Mean Response Factor Weighting
Factor 1.92
Standard deviation 0.111
%RSD 5.76
Use Area

None Iterate No

Peak Name: 135-Trinitrobenzene
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 212.97/182.80 amu

Fit Mean Response Factor Weighting
Factor 7.5
Standard deviation 0.784
%RSD 10.4
Use Area

None Iterate No

Peak Name: 13-Dinitrobenzene
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 167.95/137.90 amu

Fit Mean Response Factor Weighting
Factor 2.87
Standard deviation 0.23

None Iterate No

Hmw 4/09/10

Page 1

040110ICAL

%RSD 8.01
Use Area

Peak Name: Tetryl
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 240.95/180.80 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-0.106			
a1	5.83			
a2	-0.393			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 246-Trinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 227.12/209.80 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	2.89			
Standard deviation	0.501			
%RSD	17.3			
Use Area				

Peak Name: Nitrobenzene
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 123.04/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.154			
Standard deviation	0.0102			
%RSD	6.65			
Use Area				

Peak Name: 34-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.25			
Standard deviation	0.0971			
%RSD	7.76			
Use Area				

040110ICAL

Peak Name: 26-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.937			
Standard deviation	0.113			
%RSD	12			
Use Area				

Peak Name: 24-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.608			
Standard deviation	0.0518			
%RSD	8.51			
Use Area				

Peak Name: 4-Amino-26-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 197.02/167.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.25			
Standard deviation	0.132			
%RSD	10.6			
Use Area				

Peak Name: 2-Amino-46-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 197.02/180.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	0.0459			
Standard deviation	0.00423			
%RSD	9.22			
Use Area				

Peak Name: 2-Nitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 137.00/46.00 amu

040110ICAL	None	Iterate No	
Fit Factor	Mean Response	Factor	Weighting
Standard deviation	0.0183	0.00163	
%RSD	8.9		
Use Area			
Peak Name: 4-Nitrotoluene			
Internal Standard: 26-Dinitrotoluene-d3			
Q1/Q3 Masses: 137.00/46.00 amu			
Fit Factor	Mean Response	Factor	Weighting
Standard deviation	0.00909	0.000827	
%RSD	9.1		
Use Area			
Peak Name: 3-Nitrotoluene			
Internal Standard: 26-Dinitrotoluene-d3			
Q1/Q3 Masses: 137.00/46.00 amu			
Fit Factor	Mean Response	Factor	Weighting
Standard deviation	0.0107	0.000535	
%RSD	4.99		
Use Area			
Peak Name: PETN			
Internal Standard: 26-Dinitrotoluene-d3			
Q1/Q3 Masses: 361.06/62.00 amu			
Fit Factor	Mean Response	Factor	Weighting
Standard deviation	0.0164	0.00136	
%RSD	8.26		
Use Area			

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

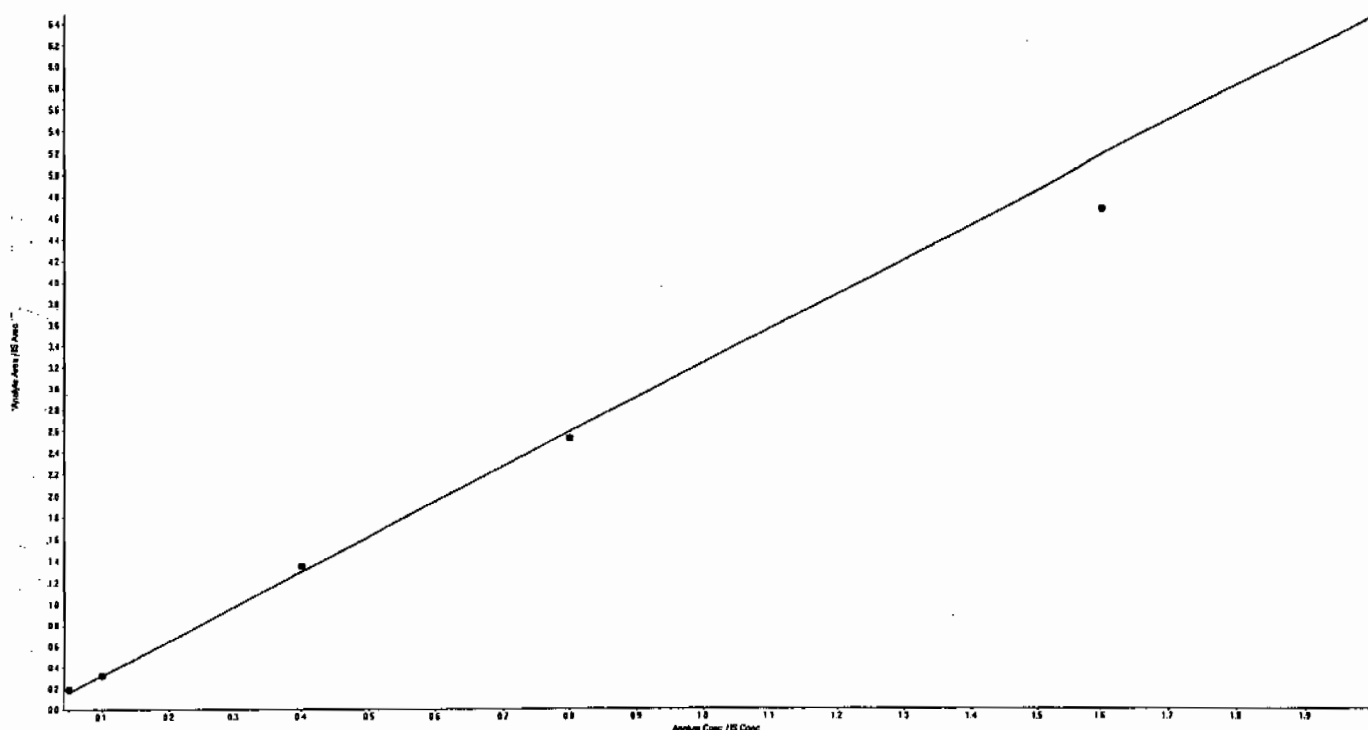
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LCMSMS#3

040110.rdb

Analyte Name: HMX

Regression Equation: $y = 3.24 x$ (std. dev. = 0.294)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.91	115.6
50	49.79	99.6
200	208.11	104.1
400	389.88	97.5
800	722.50	90.3
1000	929.39	92.9



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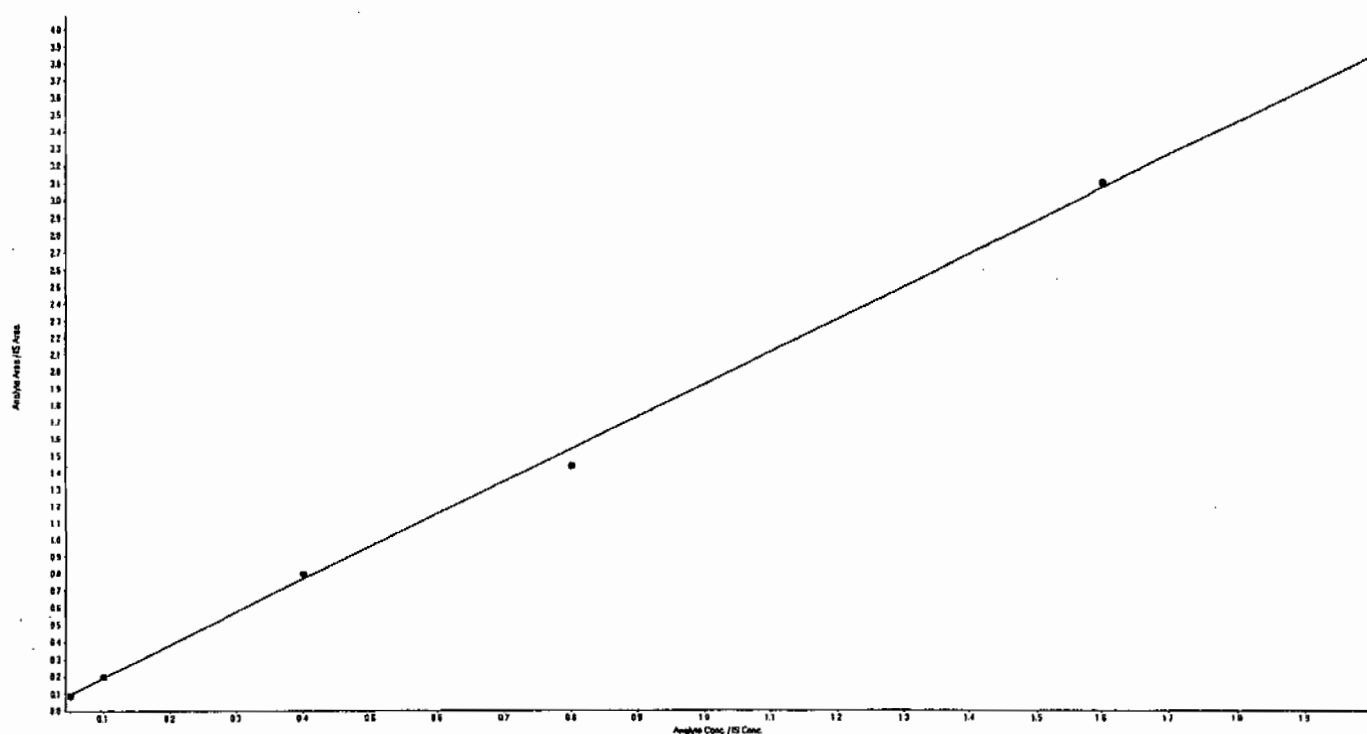
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: RDX

Regression Equation: $y = 1.92x$ (std. dev. = 0.111)

Expected Concentration	Calculated Concentration	% Accuracy
25	23.13	92.5
50	51.99	104.0
200	206.58	103.3
400	373.07	93.3
800	806.56	100.8
1000	1061.09	106.1



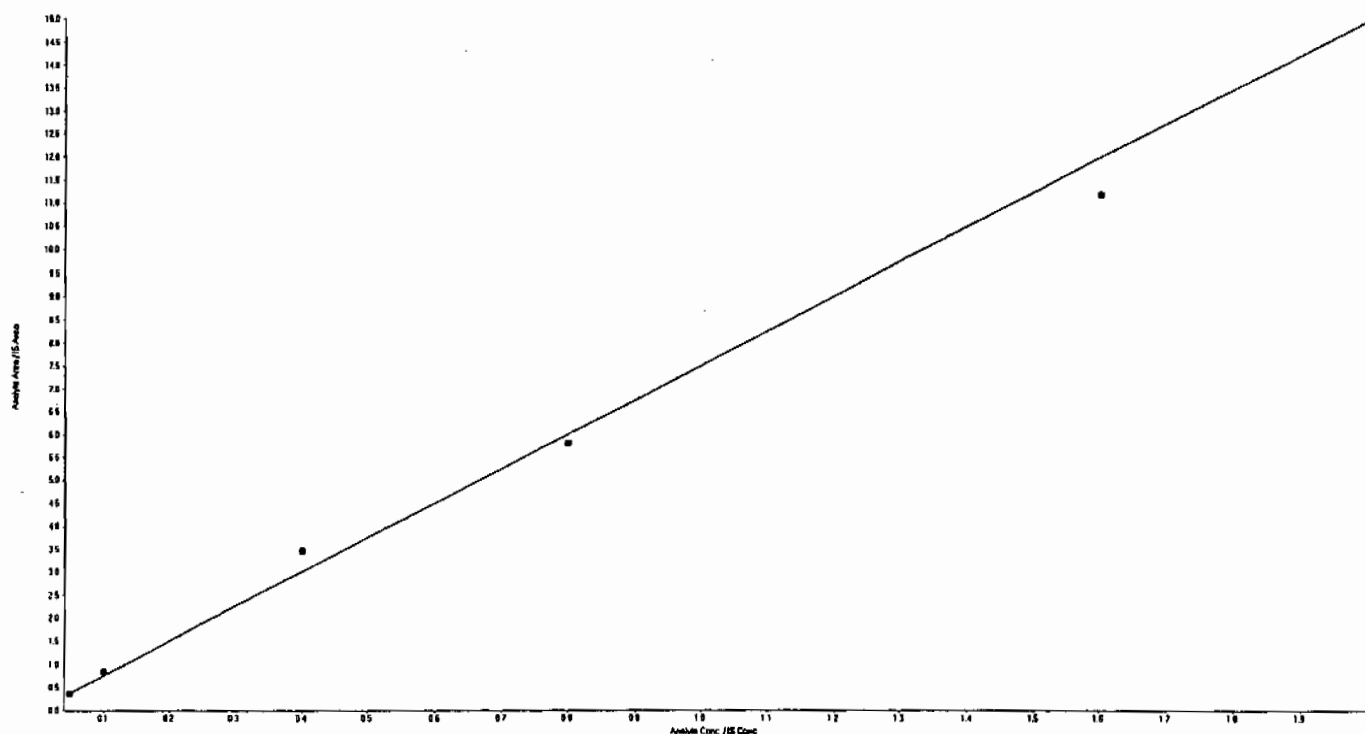
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 135-Trinitrobenzene

Regression Equation: $y = 7.5 x$ (std. dev. = 0.784)

Expected Concentration	Calculated Concentration	% Accuracy
25	23.99	96.0
50	55.20	110.4
200	230.58	115.3
400	386.22	96.6
800	745.04	93.1
1000	886.56	88.7



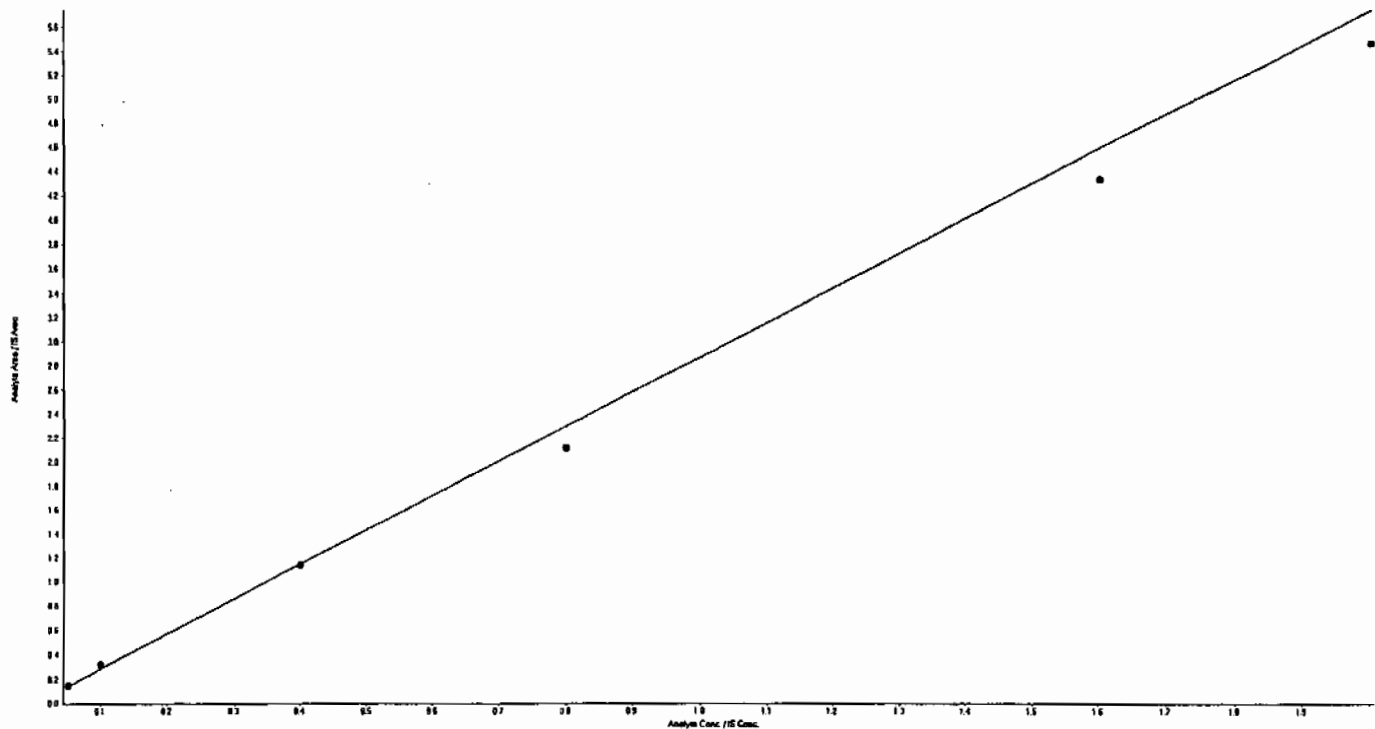
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 13-Dinitrobenzene

Regression Equation: $y = 2.87x$ (std. dev. = 0.23)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.46	105.8
50	56.54	113.1
200	198.61	99.3
400	368.93	92.2
800	754.61	94.3
1000	952.30	95.2



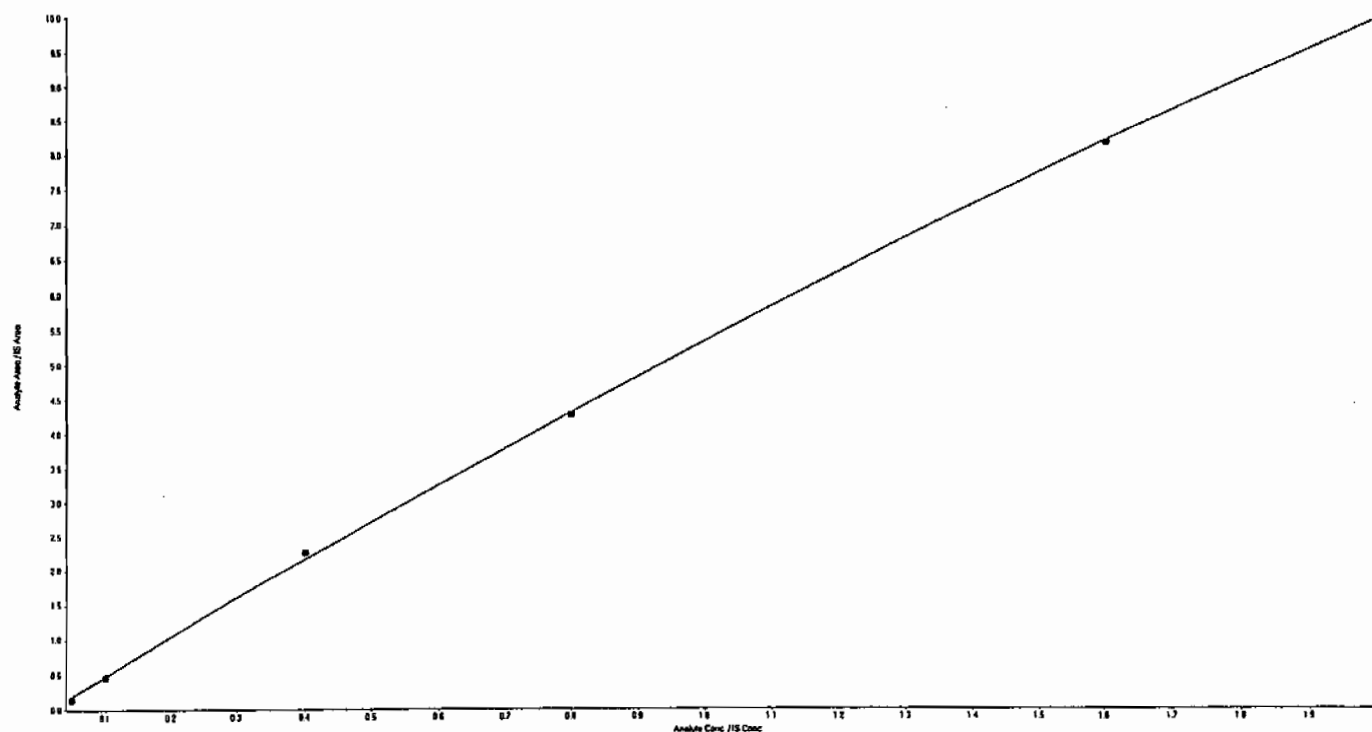
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: Tetryl

Regression Equation: $y = -0.393x^2 + 5.83x - 0.106$ ($r = 0.9999$)

Expected Concentration	Calculated Concentration	% Accuracy
25	21.55	86.2
50	49.00	98.0
200	208.51	104.3
400	397.39	99.3
800	795.26	99.4
1000	1003.34	100.3



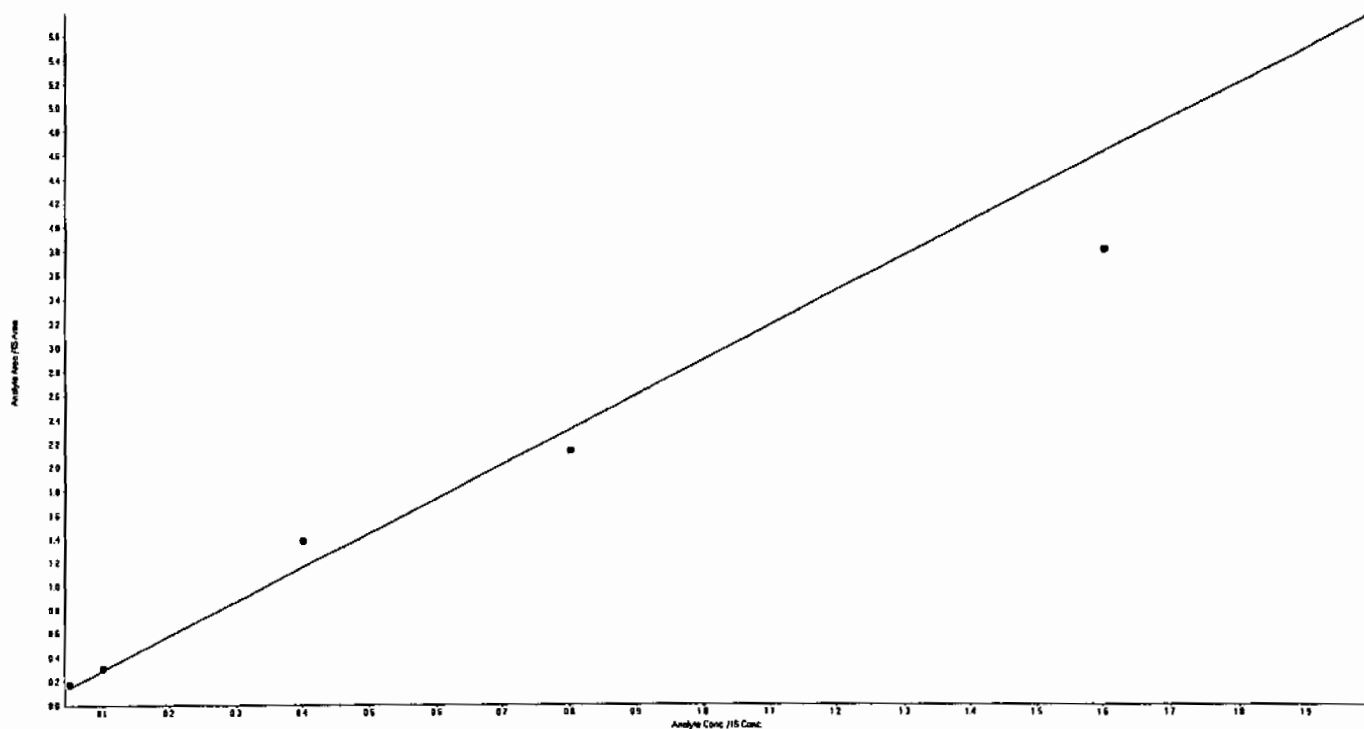
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 246-Trinitrotoluene

Regression Equation: $y = 2.89x$ (std. dev. = 0.501)

Expected Concentration	Calculated Concentration	% Accuracy
25	29.77	119.1
50	52.76	105.5
200	239.24	119.6
400	368.34	92.1
800	657.26	82.2
1000	815.38	81.5



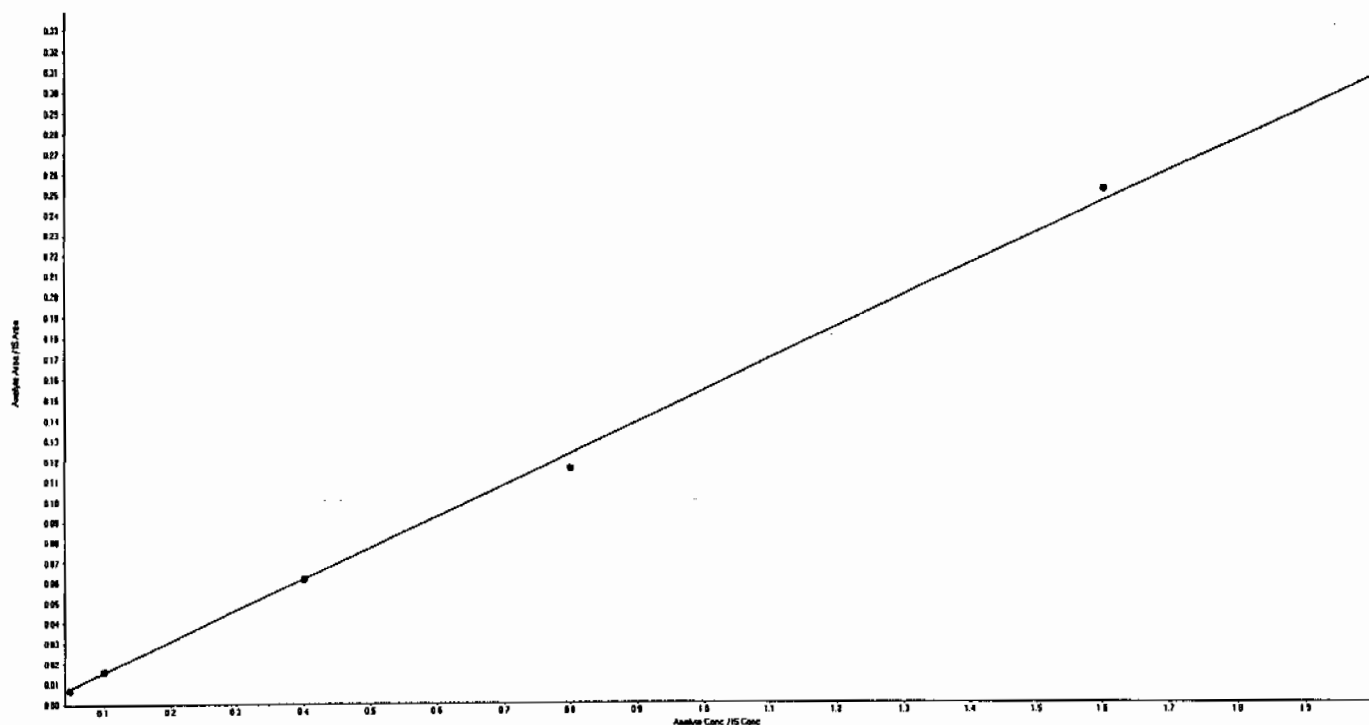
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: Nitrobenzene

Regression Equation: $y = 0.154x$ (std. dev. = 0.0102)

Expected Concentration	Calculated Concentration	% Accuracy
25	22.84	91.4
50	51.35	102.7
200	199.25	99.6
400	376.24	94.1
800	818.33	102.3
1000	1099.41	109.9



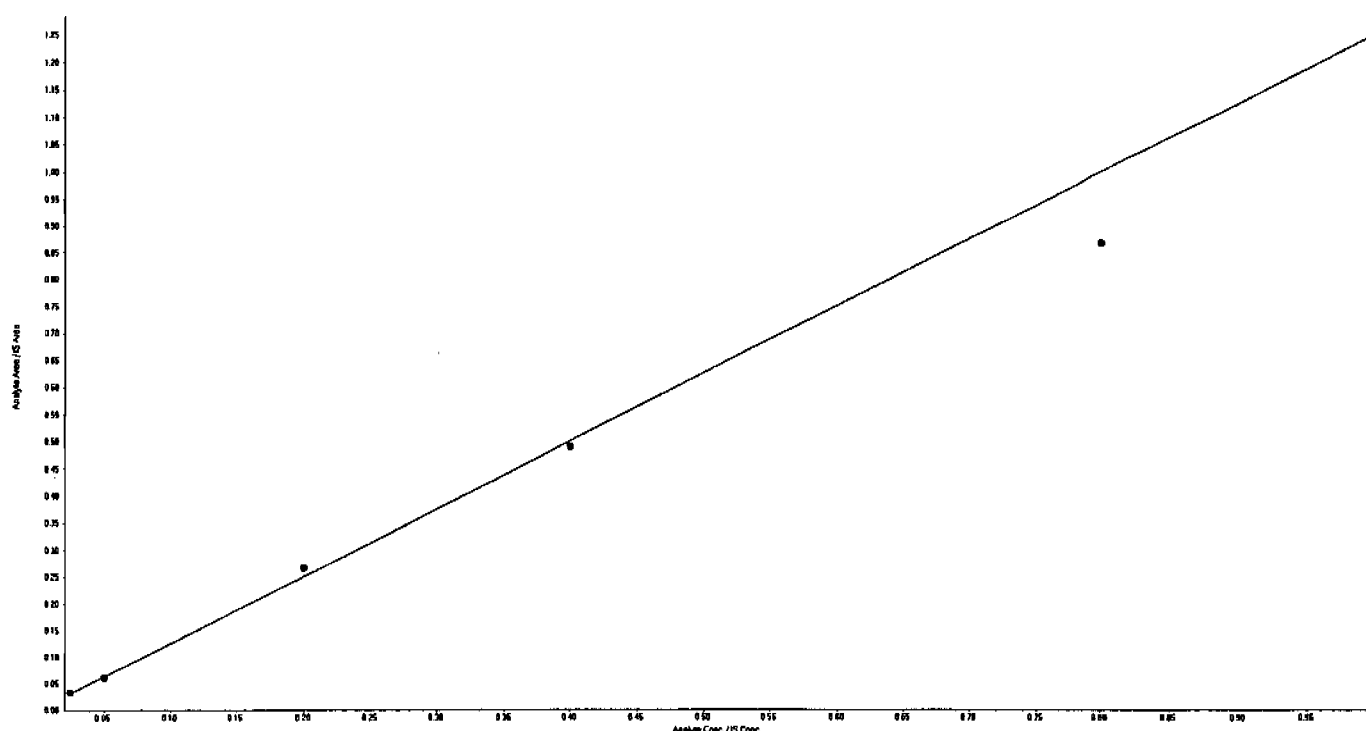
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 34-dinitrotoluene

Regression Equation: $y = 1.25 x$ (std. dev. = 0.0971)

Expected Concentration	Calculated Concentration	% Accuracy
12.5	13.52	108.1
25	24.66	98.7
100	106.45	106.5
200	195.47	97.7
400	346.30	86.6
500	512.20	102.4



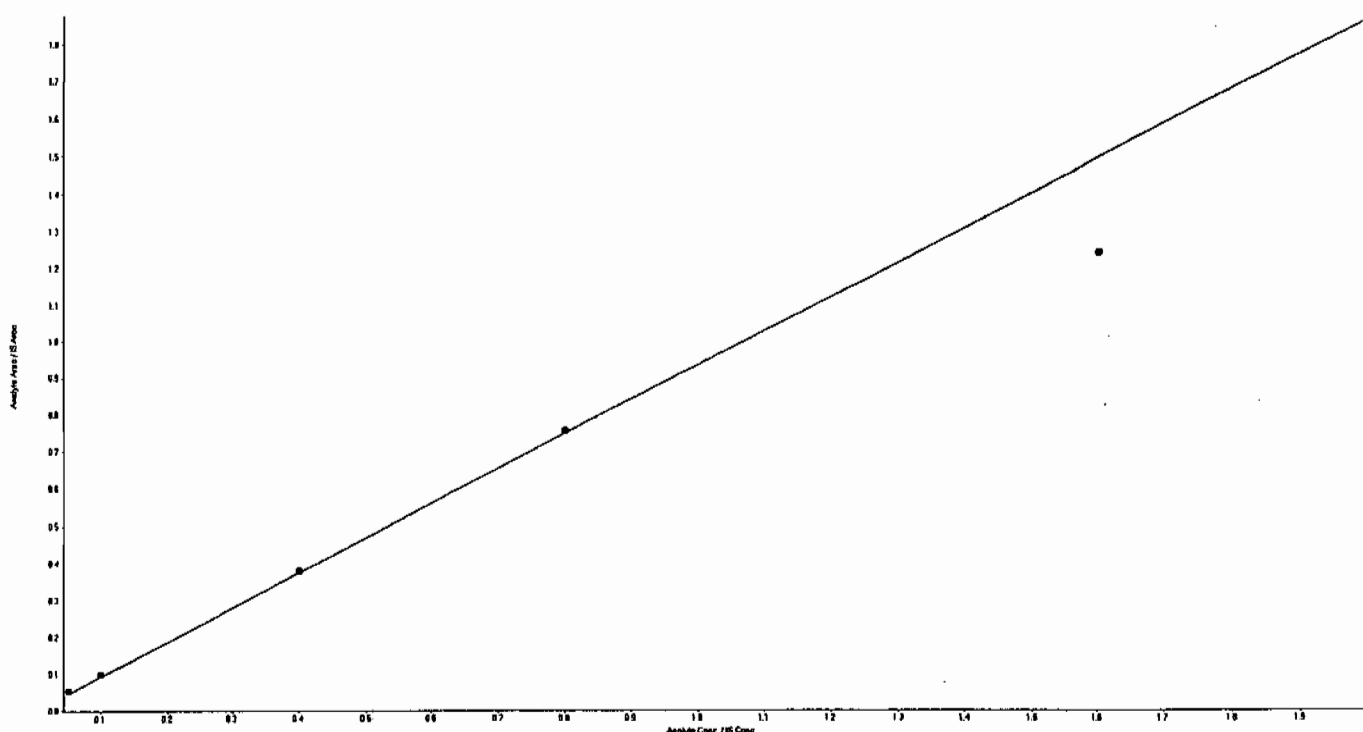
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 26-dinitrotoluene

Regression Equation: $y = 0.937 x$ (std. dev. = 0.113)

Expected Concentration	Calculated Concentration	% Accuracy
25	29.36	117.4
50	53.30	106.6
200	202.42	101.2
400	403.33	100.8
800	664.36	83.0
1000	908.70	90.9



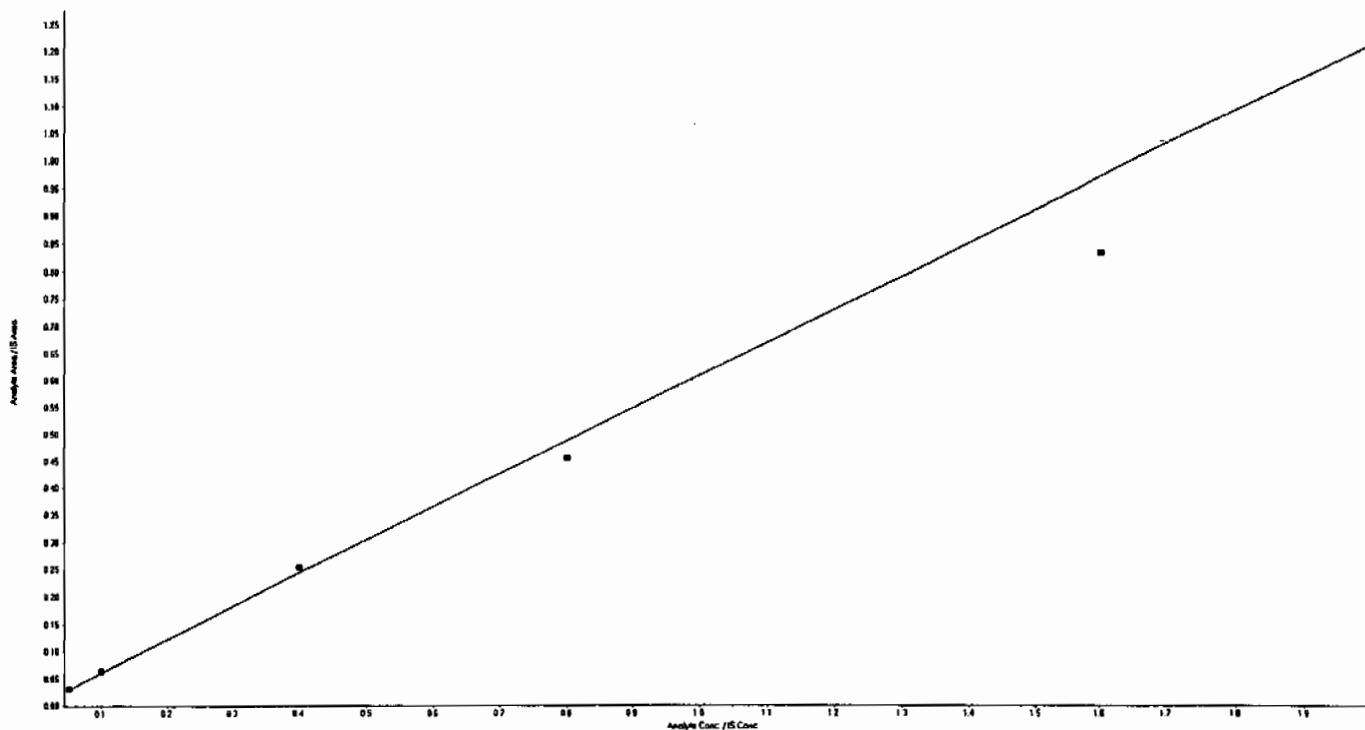
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 24-dinitrotoluene

Regression Equation: $y = 0.608x$ (std. dev. = 0.0518)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.70	106.8
50	52.62	105.2
200	208.23	104.1
400	373.65	93.4
800	685.31	85.7
1000	1047.91	104.8



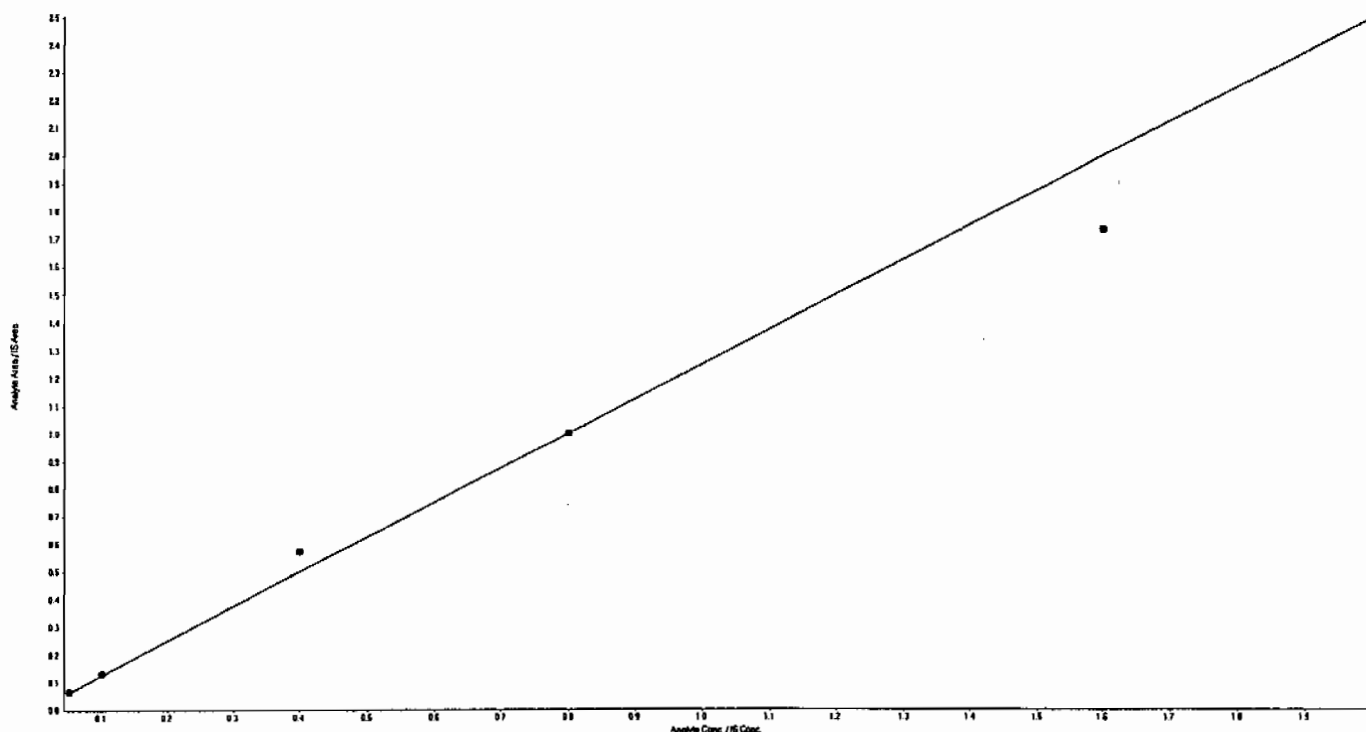
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 4-Amino-2,6-dinitrotoluene

Regression Equation: $y = 1.25x$ (std. dev. = 0.132)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.09	104.3
50	53.05	106.1
200	228.18	114.1
400	400.03	100.0
800	692.50	86.6
1000	888.96	88.9



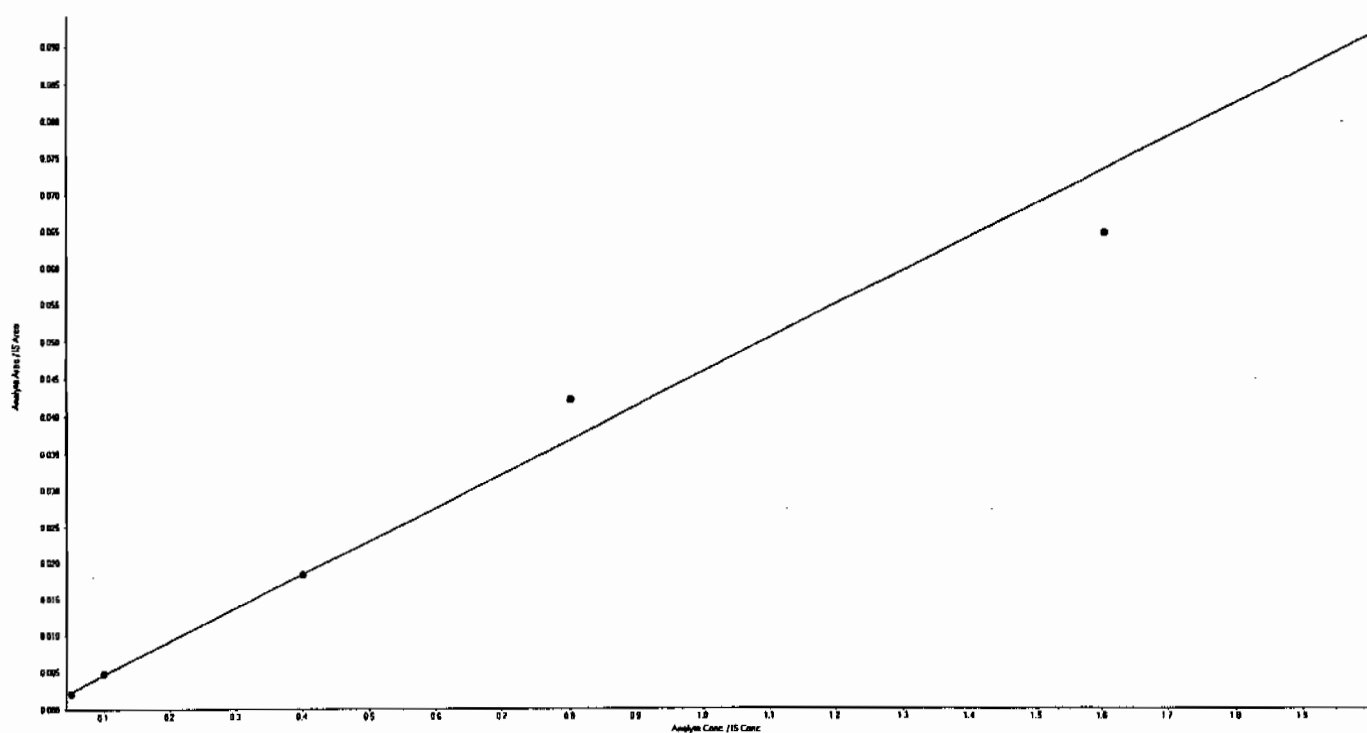
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 2-Amino-4,6-dinitrotoluene

Regression Equation: $y = 0.0459x$ (std. dev. = 0.00423)

Expected Concentration	Calculated Concentration	% Accuracy
25	23.10	92.4
50	51.62	103.2
200	199.27	99.6
400	457.62	114.4
800	704.26	88.0
1000	1022.95	102.3



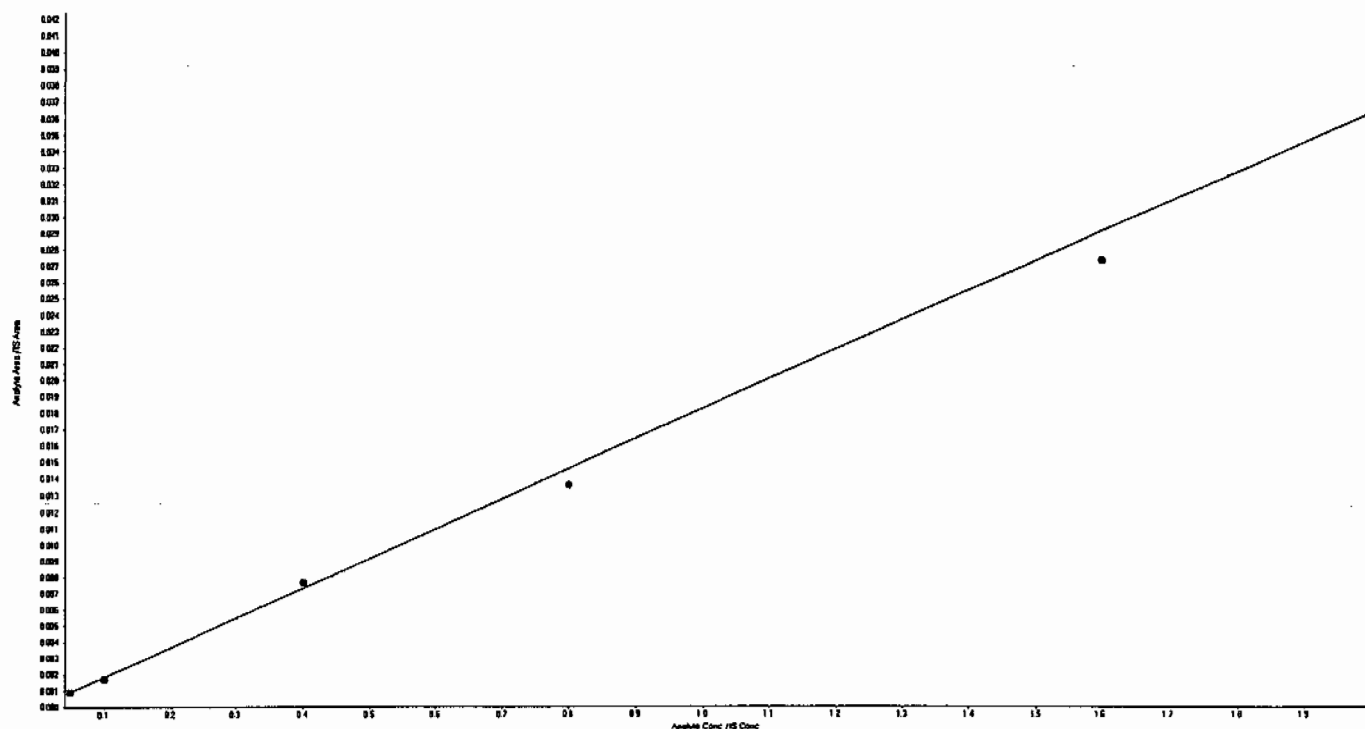
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 2-Nitrotoluene

Regression Equation: $y = 0.0183x$ (std. dev. = 0.00163)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.58	98.3
50	47.35	94.7
200	209.00	104.5
400	371.74	92.9
800	748.85	93.6
1000	1159.37	115.9



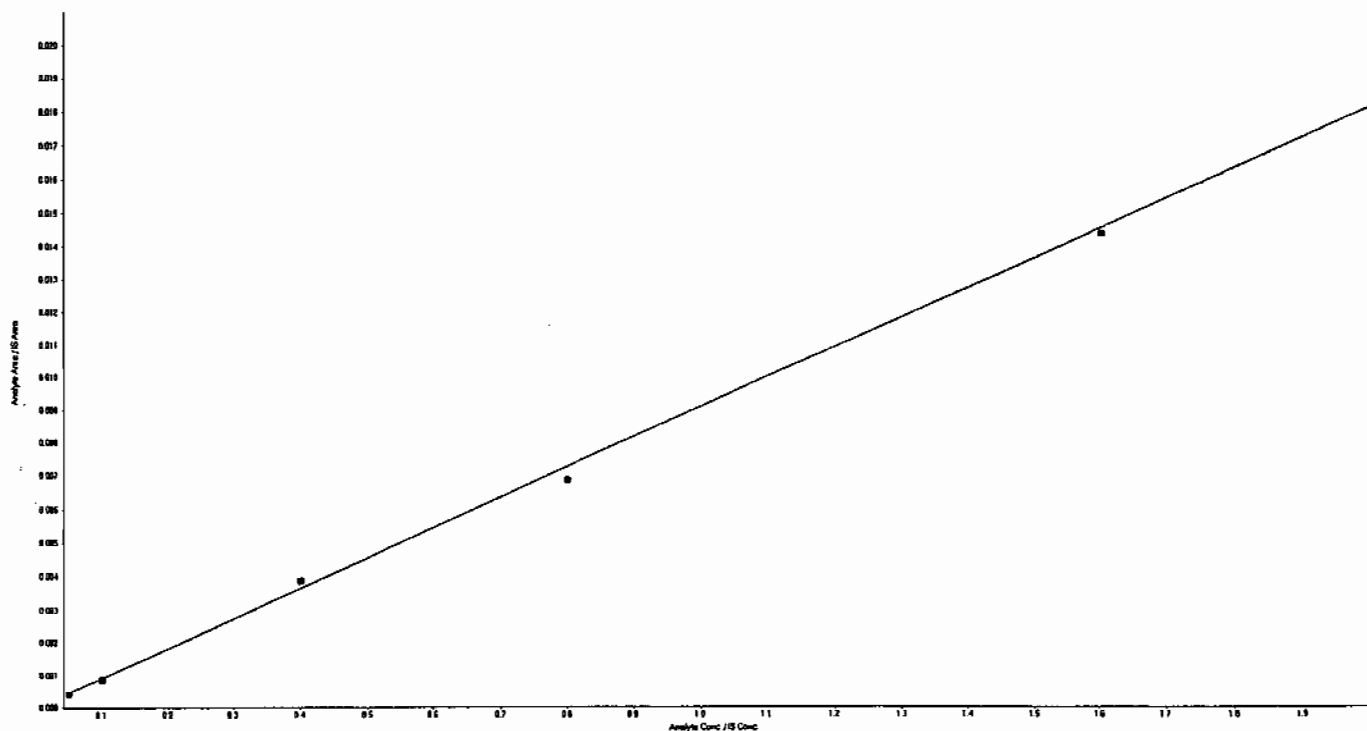
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 4-Nitrotoluene

Regression Equation: $y = 0.00909 x$ (std. dev. = 0.000827)

Expected Concentration	Calculated Concentration	% Accuracy
25	22.86	91.4
50	47.15	94.3
200	211.73	105.9
400	377.02	94.3
800	789.54	98.7
1000	1154.59	115.5



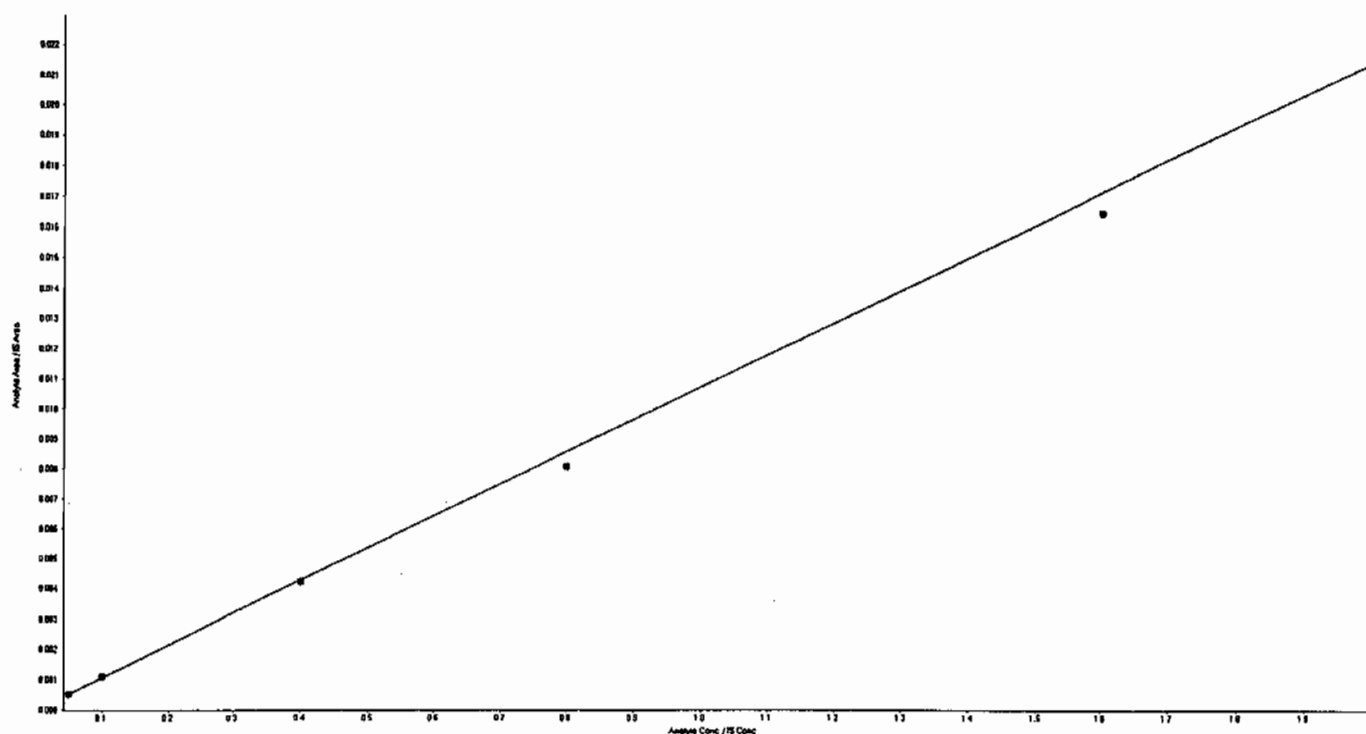
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: 3-Nitrotoluene

Regression Equation: $y = 0.0107 x$ (std. dev. = 0.000535)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.85	99.4
50	52.35	104.7
200	197.33	98.7
400	376.78	94.2
800	767.70	96.0
1000	1070.95	107.1



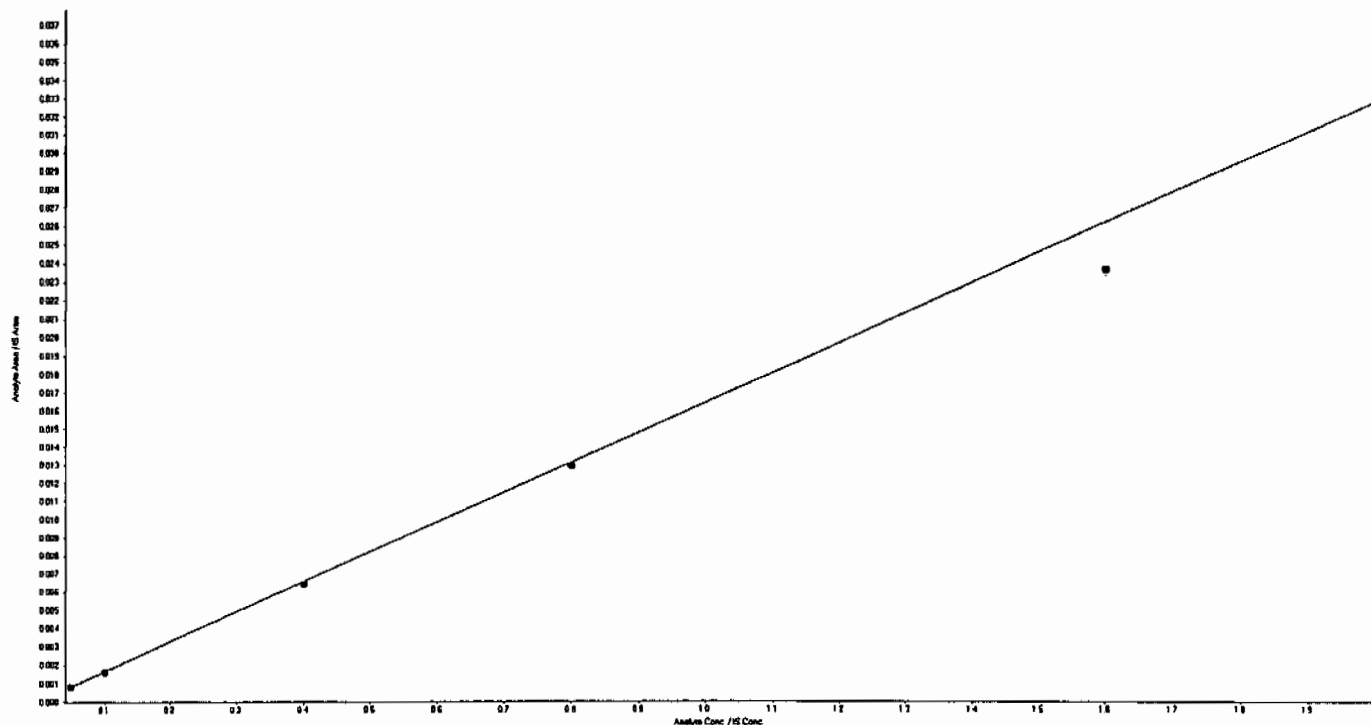
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Analyte Name: PETN

Regression Equation: $y = 0.0164 x$ (std. dev. ≈ 0.00136)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.90	99.6
50	49.35	98.7
200	195.30	97.7
400	394.07	98.5
800	721.39	90.2
1000	1153.39	115.3



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0401010.wiff

Analysis Date: 01-APR-10 15:35

LCMSMS ID: 1182

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
m-Nitrotoluene	600	759	126	
o-Nitrotoluene	600	606	101	
p-Nitrotoluene	600	730	122	
1,3,5-Trinitrobenzene	600	581	97	
2,4,6-Trinitrotoluene	600	625	104	
2,4-Dinitrotoluene	600	566	94	
2,6-Dinitrotoluene	600	601	100	
2-Amino-4,6-dinitrotoluene	600	696	116	
3,4-Dinitrotoluene	300	319	106	
4-Amino-2,6-dinitrotoluene	600	658	110	
HMX	600	585	98	
Nitrobenzene	600	627	104	
PETN	600	694	116	
RDX	600	628	105	
Tetryl	600	596	99	
m-Dinitrobenzene	600	593	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%

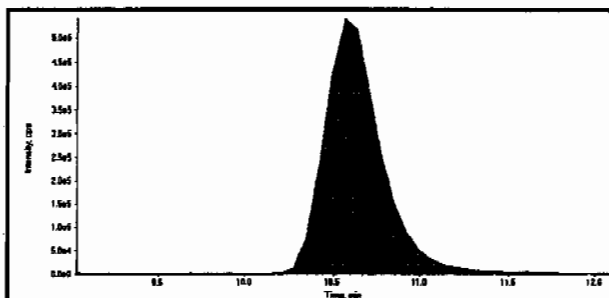
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

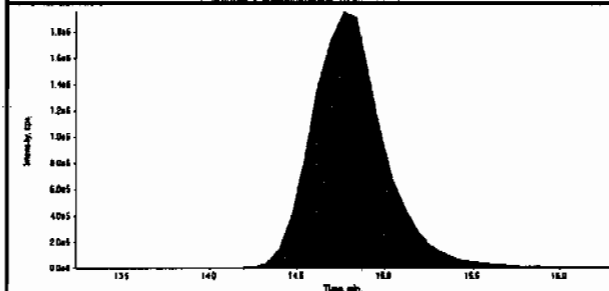
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

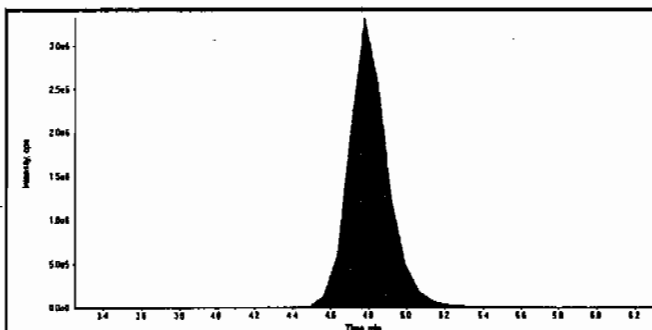
Data File	EXP0401010.wiff	Acquisition Date	4/1/2010 3:35:34 PM
Sample Name	WXX100401-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



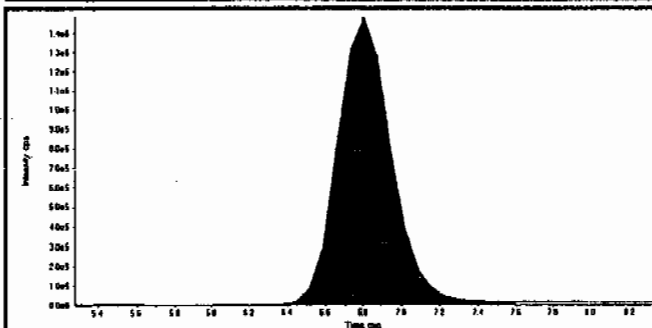
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	12300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	56300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	4.66e+007
Manual Modification	No
Amount:	585. (ng/mL)
% Accuracy:	97.50



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	2.97e+007
Manual Modification	No
Amount:	628. (ng/mL)
% Accuracy:	105.00

See 4/1/10

Have 04/09/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401010.wiff	Acquisition Date	4/1/2010 3:35:34 PM
Sample Name	WXX100401-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	9.04
	Area Counts:	1.07e+008
	Manual Modification	No
	Amount:	581. (ng/mL)
	% Accuracy:	96.80

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	4.19e+007
	Manual Modification	No
	Amount:	593. (ng/mL)
	% Accuracy:	98.90

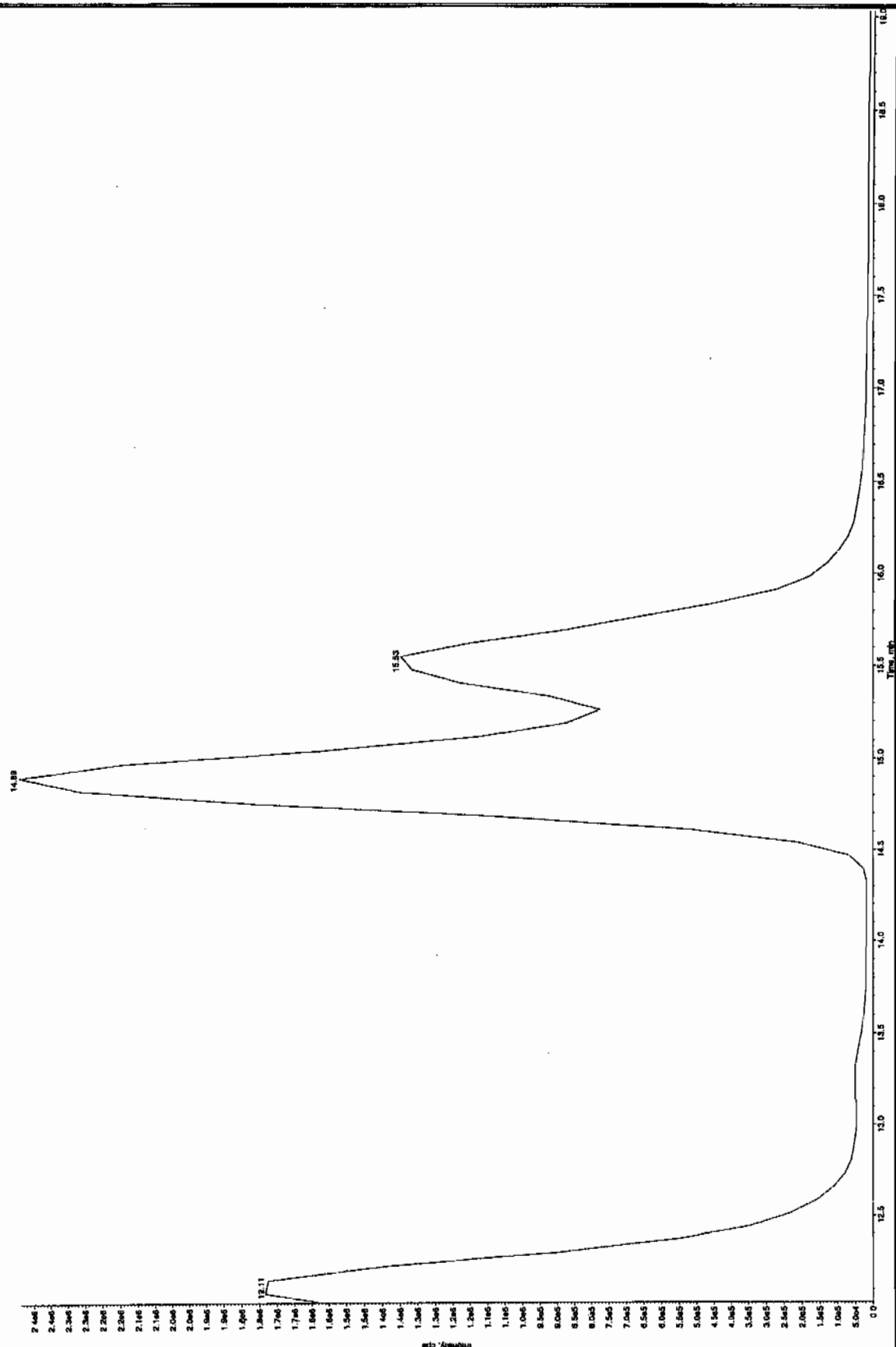
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	7.73e+007
	Manual Modification	No
	Amount:	596. (ng/mL)
	% Accuracy:	99.30

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	13.2
	Area Counts:	2.04e+008
	Manual Modification	No
	Amount:	625. (ng/mL)
	% Accuracy:	104.00

Before Jan 4/9/10

File Name: "W0000001-SECY" Sample ID: "TLER" File: "EXP0001010.wif"
 Name: "X-Substance" Mass: "182.045.0 amu"
 Name: "X-Substance" Mass: "182.045.0 amu"

OC
 Type: 600
 Location: 600
 Date: 4/1/2009
 Time: 3:12:14 PM
 User: No



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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401010.wiff	Acquisition Date	4/1/2010 3:35:34 PM
Sample Name	WXX100401-56ICV	Acquisition Method	-8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	-040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	2.37e+006
	Manual Modification	No
	Amount:	627. (ng/mL)
	% Accuracy:	104.00

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	12.1
	Area Counts:	4.50e+007
	Manual Modification	No
	Amount:	319. (ng/mL)
	% Accuracy:	106.00

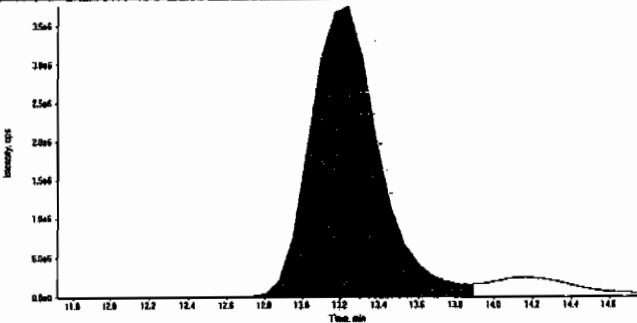
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	14.9
	Area Counts:	6.34e+007
	Manual Modification	No
	Amount:	601. (ng/mL)
	% Accuracy:	100.00

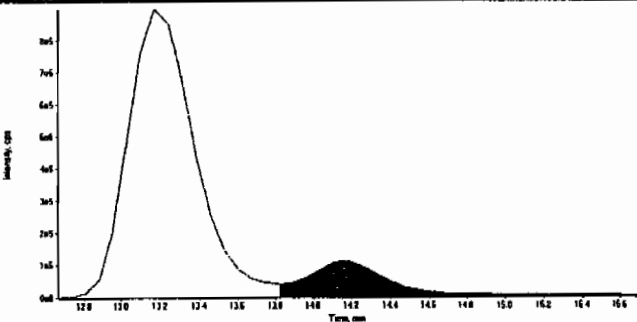
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	15.5
	Area Counts:	3.88e+007
	Manual Modification	Yes
	Amount:	566. (ng/mL)
	% Accuracy:	94.30

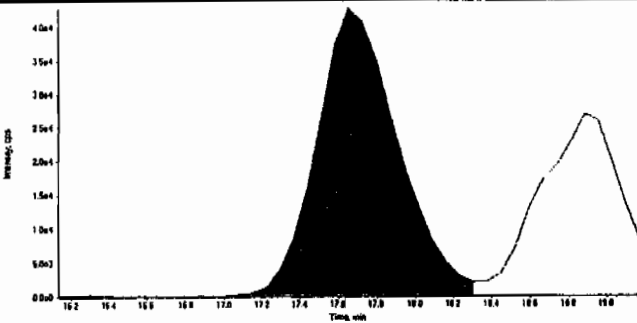
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

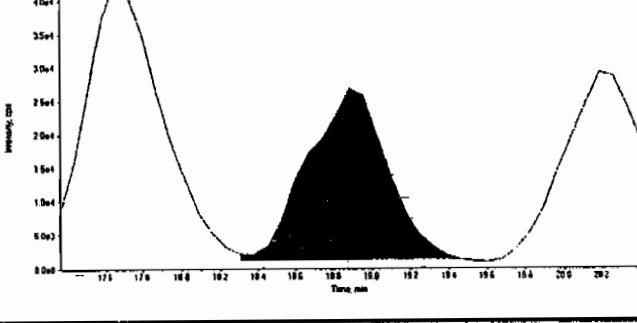
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401010.wiff	Acquisition Date	4/1/2010 3:35:34 PM
Sample Name	WXX100401-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	13.2
	Area Counts:	9.29e+007
	Manual Modification	No
	Amount:	658. (ng/mL)
	% Accuracy:	110.00

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	14.2
	Area Counts:	3.60e+006
	Manual Modification	No
	Amount:	696. (ng/mL)
	% Accuracy:	116.00

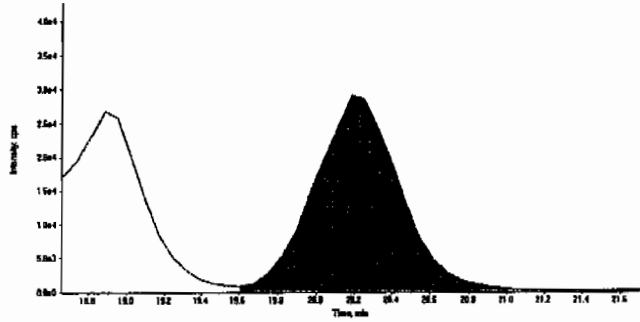
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	17.7
	Area Counts:	1.25e+006
	Manual Modification	No
	Amount:	606. (ng/mL)
	% Accuracy:	101.00

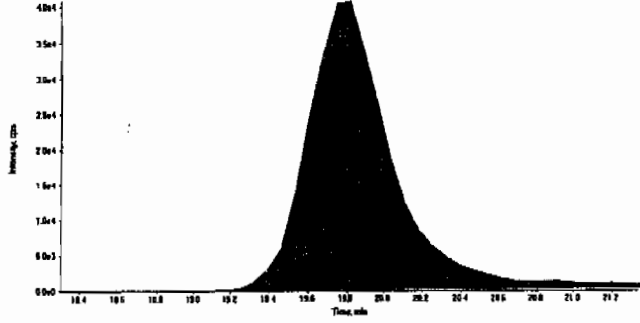
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	18.9
	Area Counts:	7.48e+005
	Manual Modification	No
	Amount:	730. (ng/mL)
	% Accuracy:	122.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401010.wiff	Acquisition Date	4/1/2010 3:35:34 PM
Sample Name	WXX100401-56ICV	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	20.2
	Area Counts:	9.17e+005
	Manual Modification	No
	Amount:	759. (ng/mL)
	% Accuracy:	126.00

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	19.8
	Area Counts:	1.28e+006
	Manual Modification	No
	Amount:	694. (ng/mL)
	% Accuracy:	116.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 04/01/10
 Time of Injection 1535
 Standard Number WXX100401-56ICV
 Data File EXP0401010a

HMX	97.5	✓
RDX	105.0	✓
135-Trinitrobenzene	96.8	
13-Dinitrobenzene	98.9	
Tetryl	99.3	
246-Trinitrotoluene	104.0	
Nitrobenzene	104.0	
34-dinitrotoluene	106.0	
26-dinitrotoluene	100.0	
24-dinitrotoluene	94.3	
4-Amino-26-dinitrotoluene	110.0	
2-Amino-46-dinitrotoluene	116.0	
2-Nitrotoluene	101.0	
4-Nitrotoluene	122.0	
3-Nitrotoluene	126.0	
PETN	116.0	
TOTAL	1696.8	<i>done 04/09/10</i>
AVERAGE	✓ 106.1	ICV Limits 85-115%
		CRI Limits 70-130%
		CCV Limits 85-115%
		No single analyte > +/- 60%

San
4/9/10

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1864
 Lab Code: GEL Run Date: 01-APR-10.10-MAR-10.30-MAR-10
 LCMSMS Instrument ID: LCMSMS4 Method: 8321A Modified HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: Average RF

Paruname	19	20	21	22	23	25	Ave RF	RSD	Q
2,4-Diamino-6-nitrotoluene	1090	1070	1100	1030	1110	938	1056.333	6.07	
2,6-Diamino-4-nitrotoluene	1620	1550	1540	1570	1520	1380	1530.000	5.41	

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

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1864

Lab Code: GEL

Run Date: 01-APR-10.10-MAR-10.30-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	25	X	X^2	Intercept	COD	Q
Data File:	EXS03100003.wif	EXS03100004.wif	EXS03100005.wif	EXS03100006.wif	EXS03100007.wif	EXS03100009.wif					
Parname:											
3,4-Dinitrotoluene	269000	536000	1300000	2570000	3200000	9020000	22800	10300	-1.34	1	
3,5-Dinitroaniline	414000	823000	2000000	3900000	4810000	12200000	189000	6930	-459	.9986	
TATB	64800	130000	329000	728000	1060000	2830000	-15900	1460	-021	.9999	
tris(o-cresyl) phosphate	689000	1380000	3340000	6340000	9120000	20300000	65000	13300	-1.59	1	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

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

* Values outside of QC Limit

031010ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.59e+004			
a1	1.46e+003			
a2	-0.0212			
Correlation coefficient 0.9999				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	1.89e+005			
a1	6.93e+003			
a2	-0.459			
Correlation coefficient 0.9986				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	2.28e+004			
a1	1.03e+004			
a2	-1.34			
Correlation coefficient 1.0000				
Use Area				

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

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.53e+003			
Standard deviation	82.8			
%RSD	5.41			
Use Area				

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

See 3/13/10

4/11/10 3/15/10

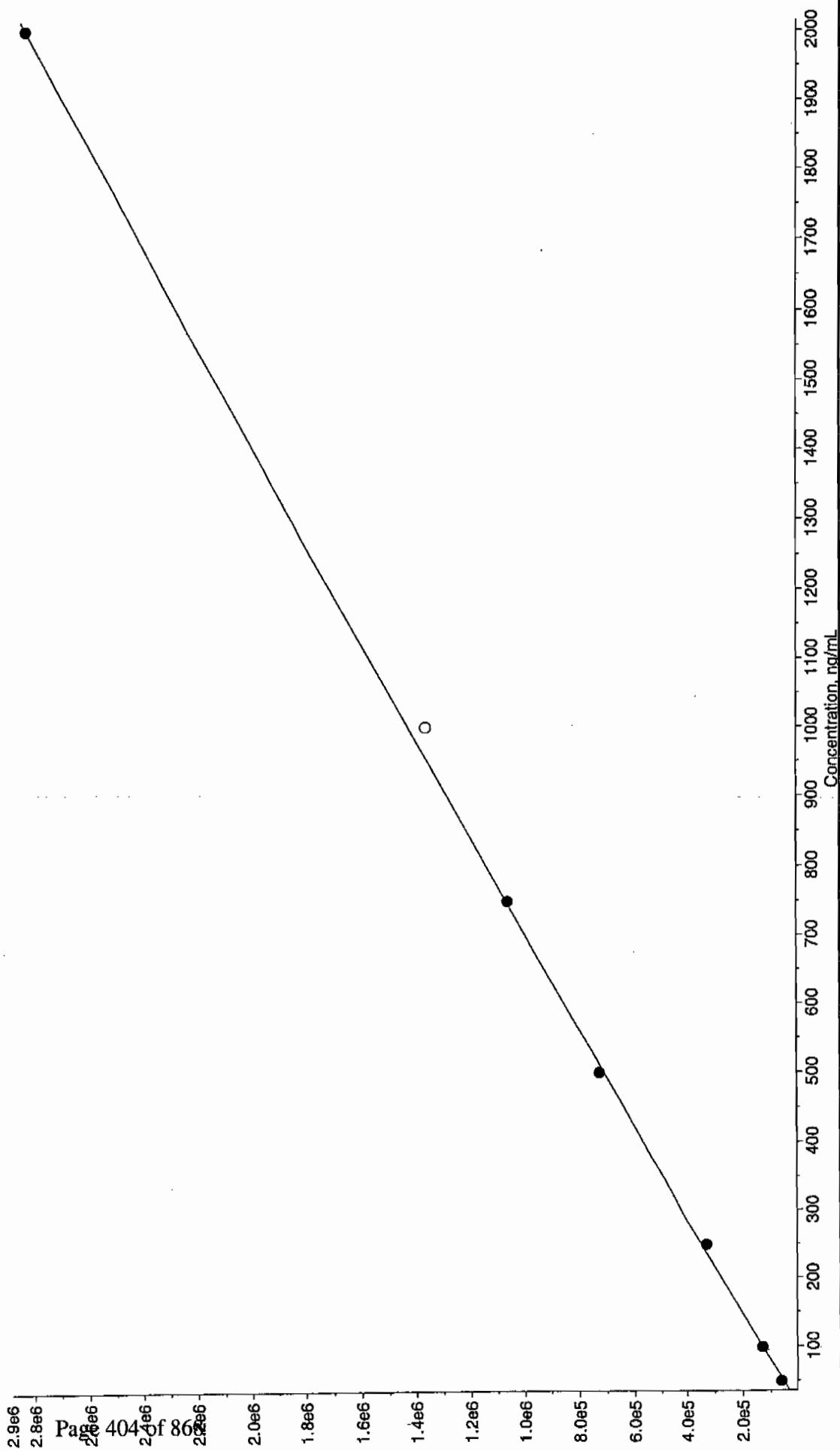
031010ICAL
None Iterate No

Fit Mean Response Factor weighting
Factor 1.06e+003
Standard deviation 64.2
%RSD 6.07
Use Area

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

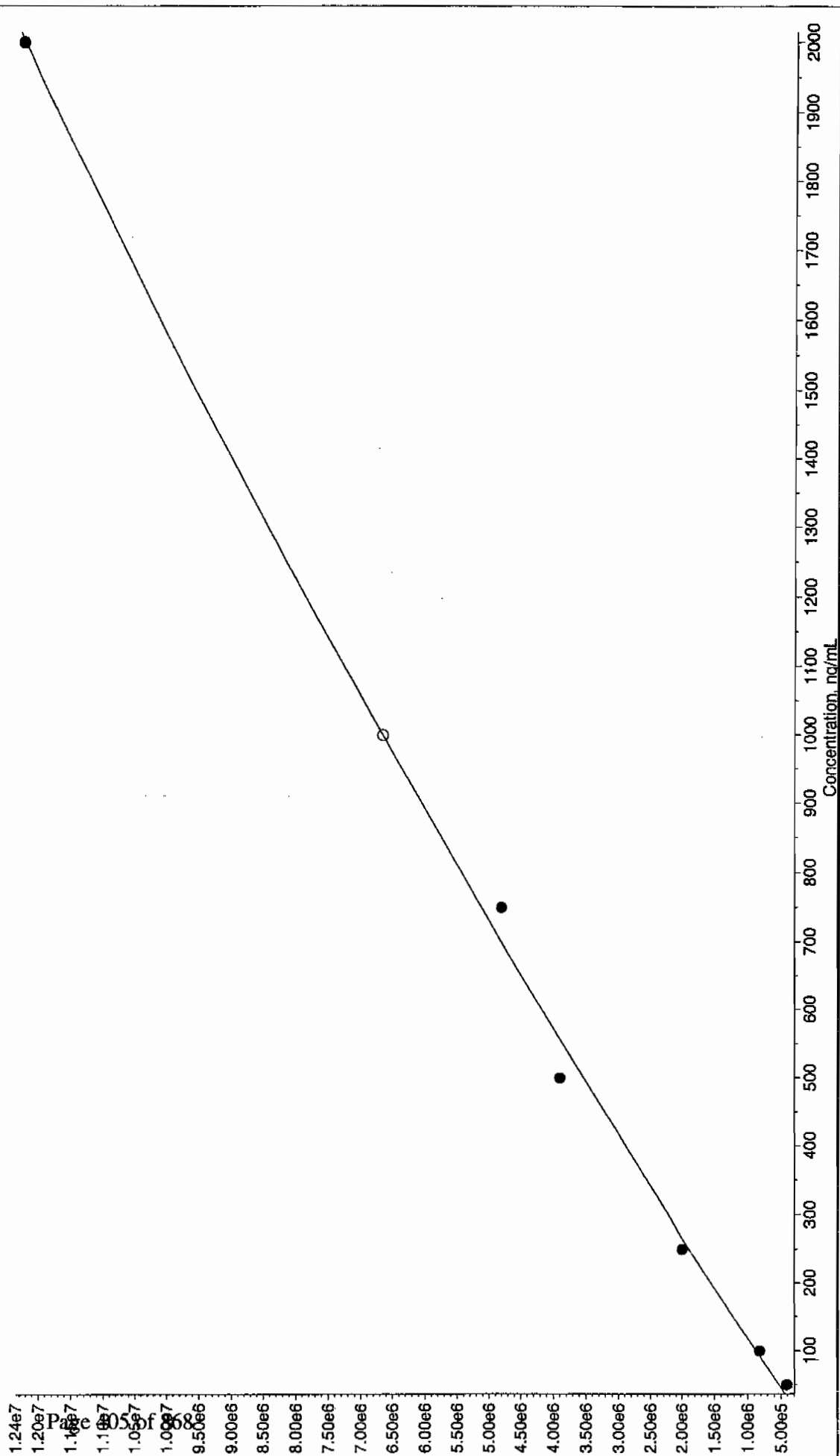
Fit Quadratic weighting None Iterate No
a0 6.5e+004
a1 1.33e+004
a2 -1.59
Correlation coefficient 1.0000
Use Area

031010.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = -0.0212 x^2 + 1.46e+003 x + -1.59e+004$ ($r = 0.9999$)

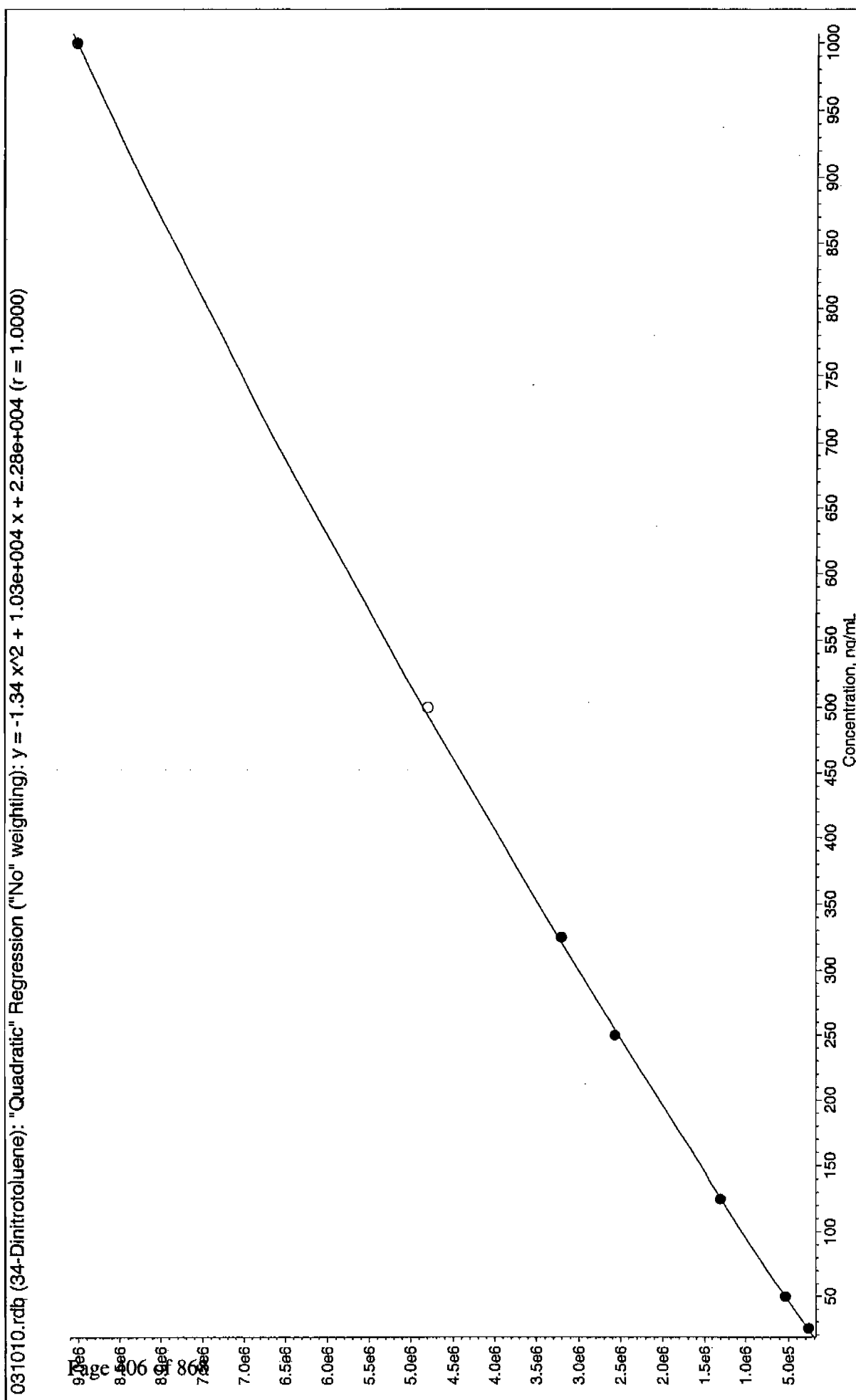


HEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

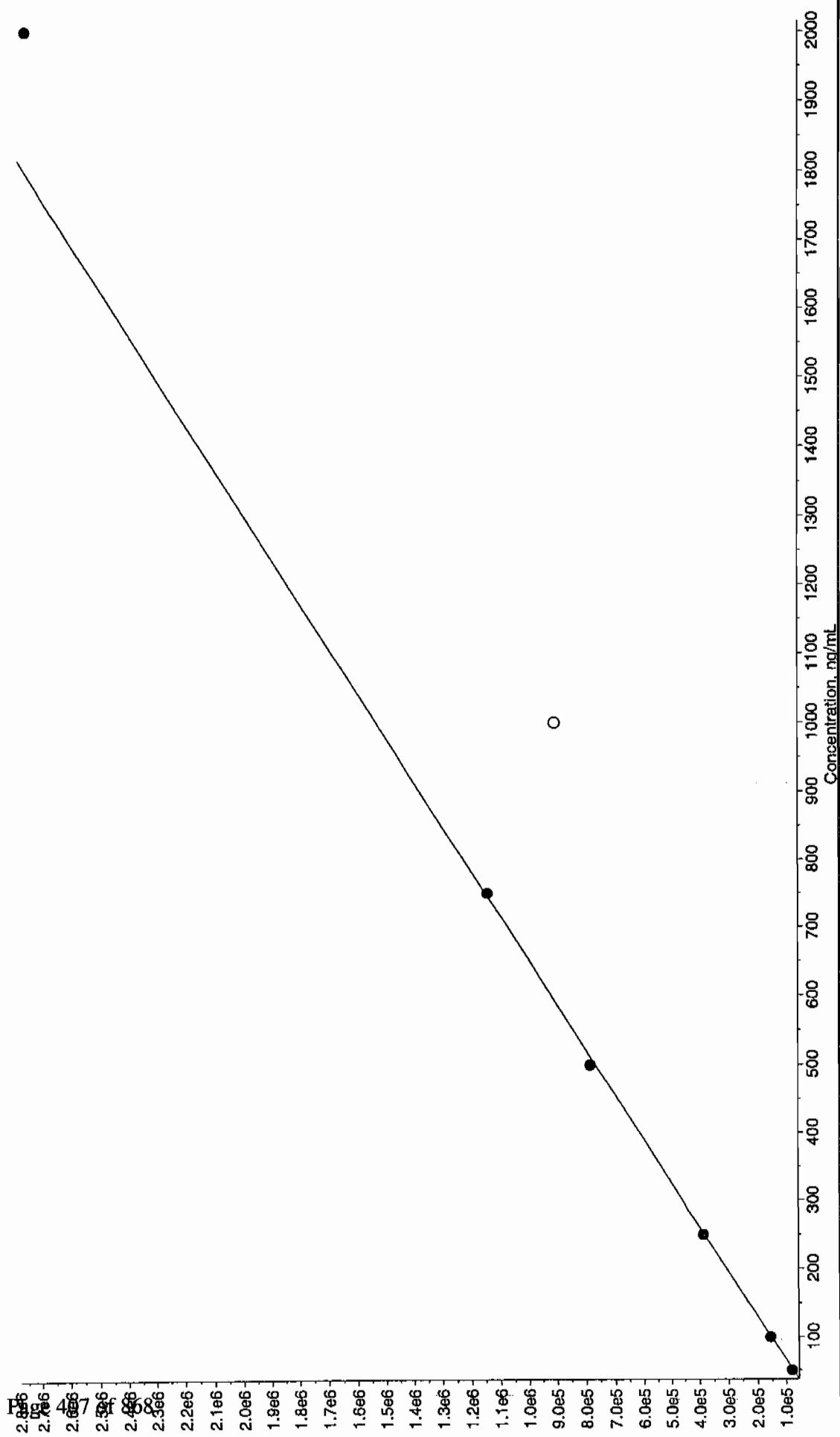
031010.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.459 x^2 + 6.93e+003 x + 1.89e+005$ ($r = 0.9986$)



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

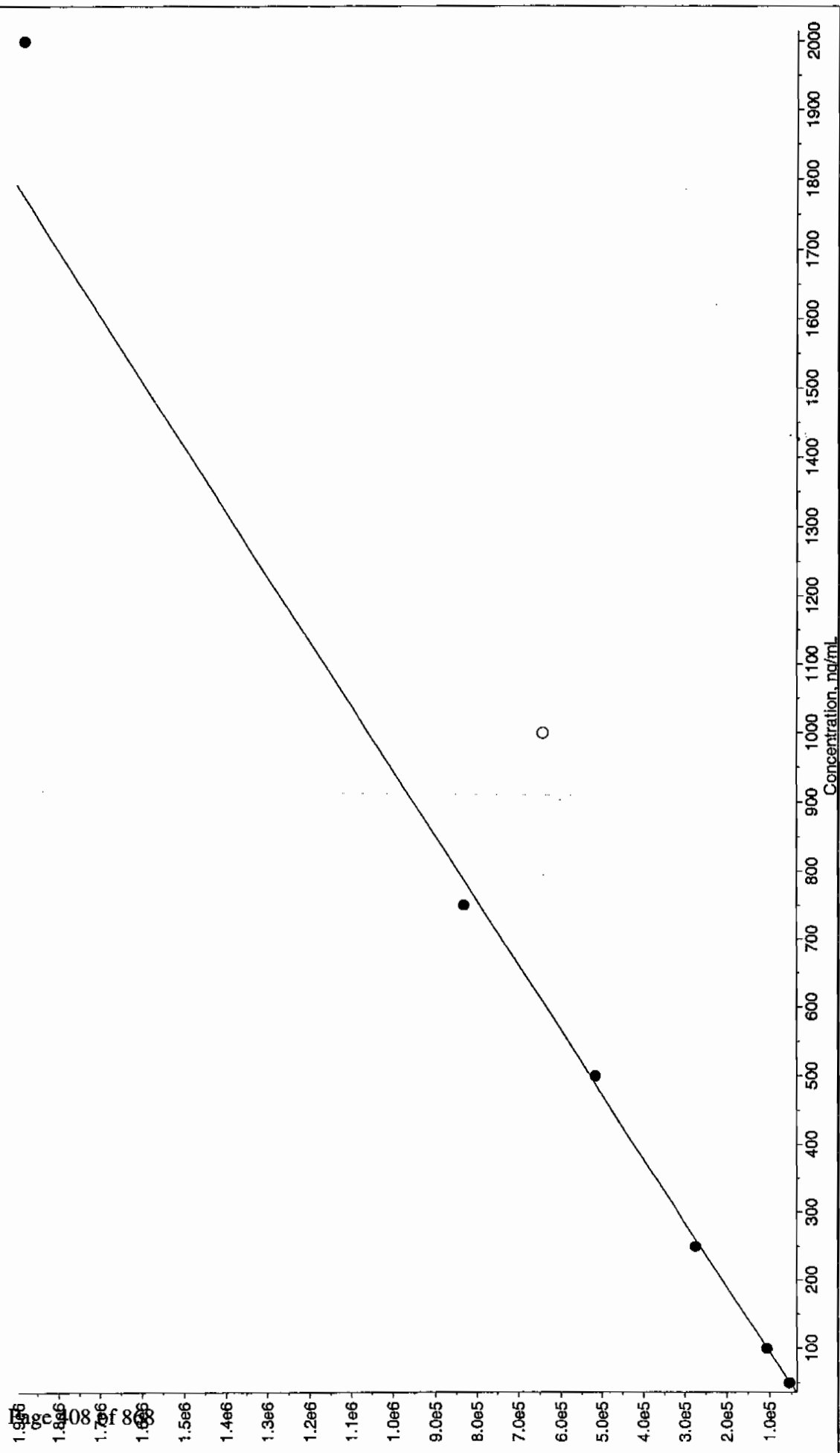


031010.rdb (26-Diamino-4-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.53e+003 x$ (std. dev. = 82.8)



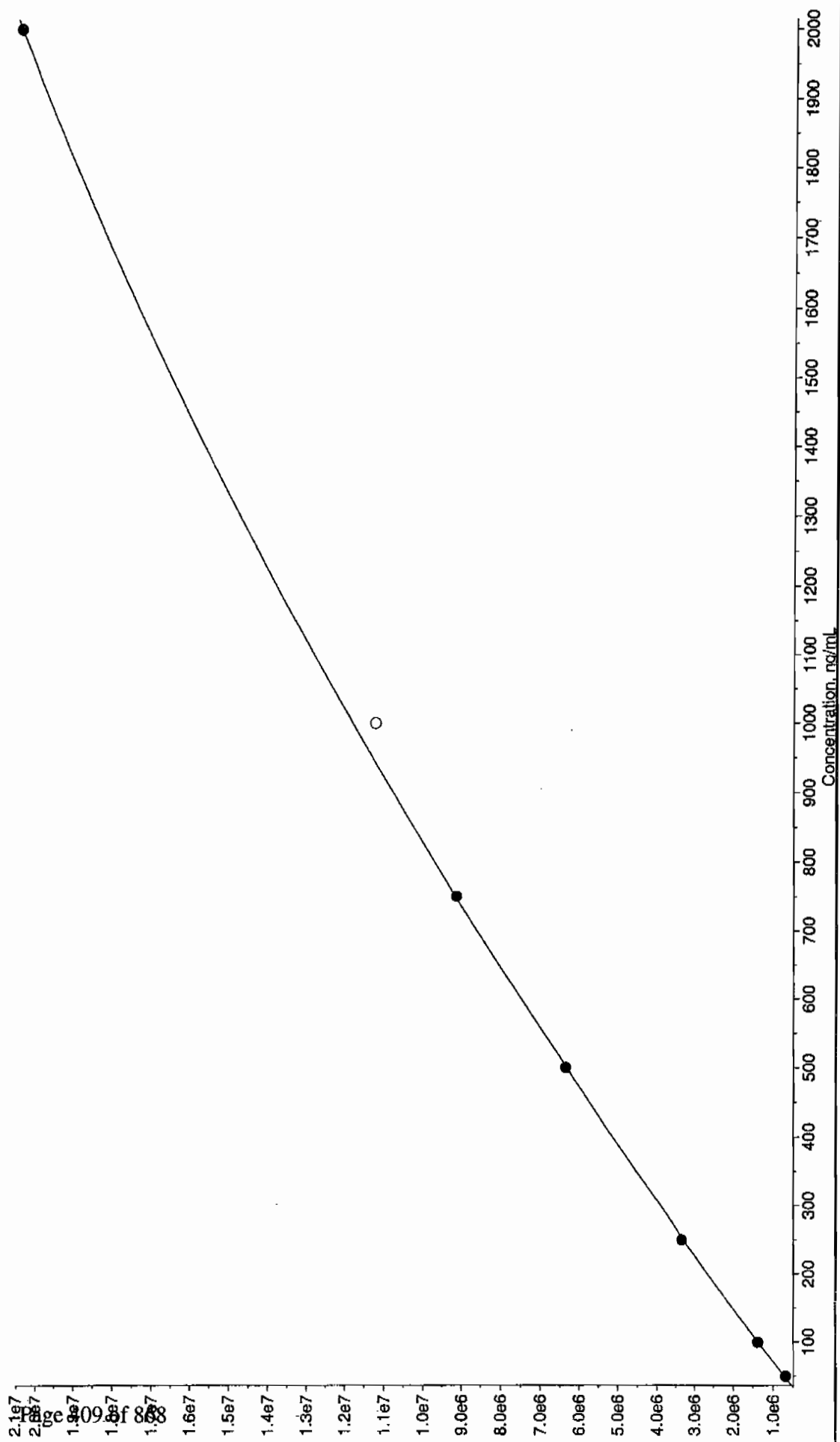
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

031010.rdb (24-Diamino-6-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.06e+003 \times (\text{std. dev.} = 64.2)$



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

031010.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -1.59 x^2 + 1.33e+004 x + 6.5e+004$ ($r = 1.0000$)



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

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03100011.wiff

Analysis Date: 10-MAR-10 18:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	250	243	97	
3,5-Dinitroaniline	500	527	105	
TATB	500	461	92	
tris(o-cresyl) phosphate	500	483	97	
2,4-Diamino-6-nitrotoluene	500	506	101	
2,6-Diamino-4-nitrotoluene	500	502	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%

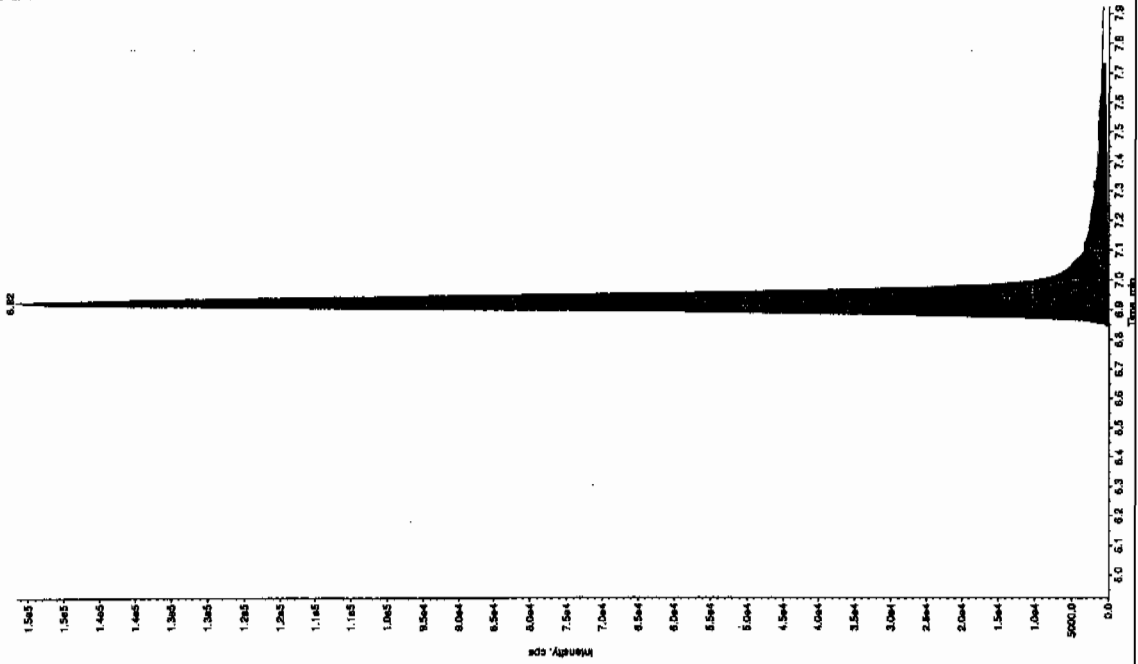
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Lat 3/13/10

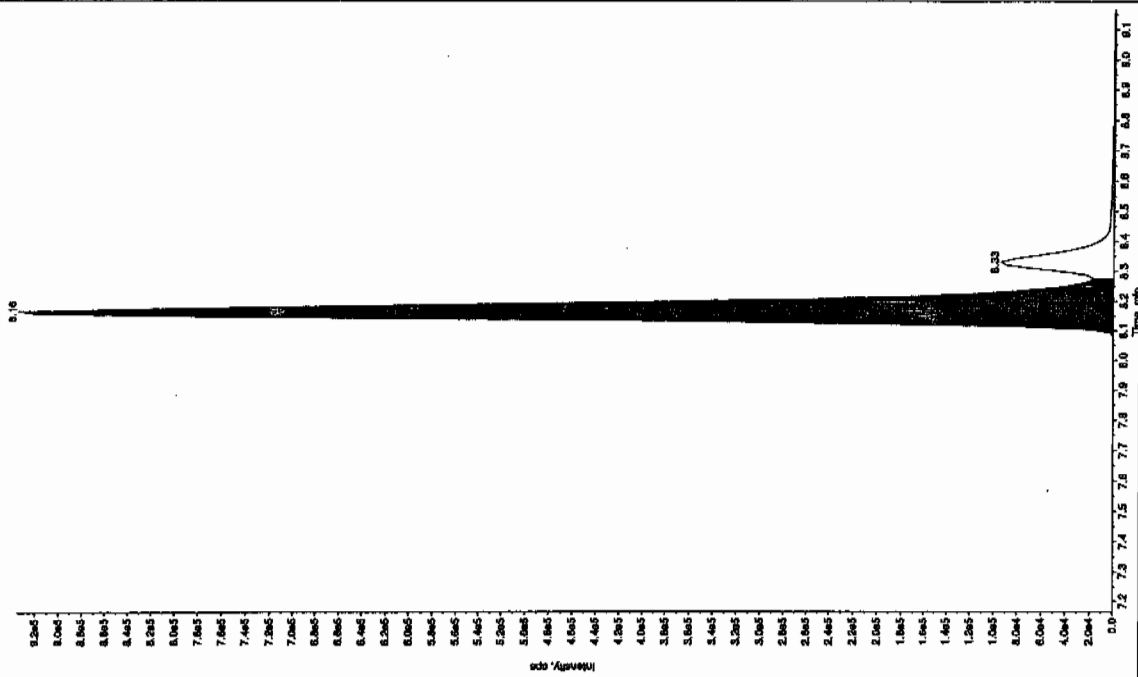
Sample Name: "W02100310-2809" Sample ID: "1111" File: "EX003100011.wif"
 Peak Name: "1A1B" Mass(es): 257.2045 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 527. ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:08:30 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: 8.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.82 min
 Area: 6.14e+005 counts
 Height: 151460.114 cps
 Start Time: 6.82 min
 End Time: 7.73 min



Sample Name: "W02100310-2809" Sample ID: "1111" File: "EX003100011.wif"
 Peak Name: "1A1B" Mass(es): 182.0460 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 527. ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:08:30 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: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 3.71e+006 counts
 Height: 934657.959 cps
 Start Time: 8.06 min
 End Time: 8.28 min



ANW 03/15/10

Sample Name: "WXX100310-25CV" Sample ID: "HLEP" File: "EXS03100011.wif"

Peak Name: "34-Dinitrobenzene" Mass(es): "182.151.9 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 250. ng/mL

Calculated Conc: 243. ng/mL

Acq. Date: 3/10/2010

Acq. Time: 6:08:10 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: 8.32 min

Use Relative RT: No

Int. Type: Valley

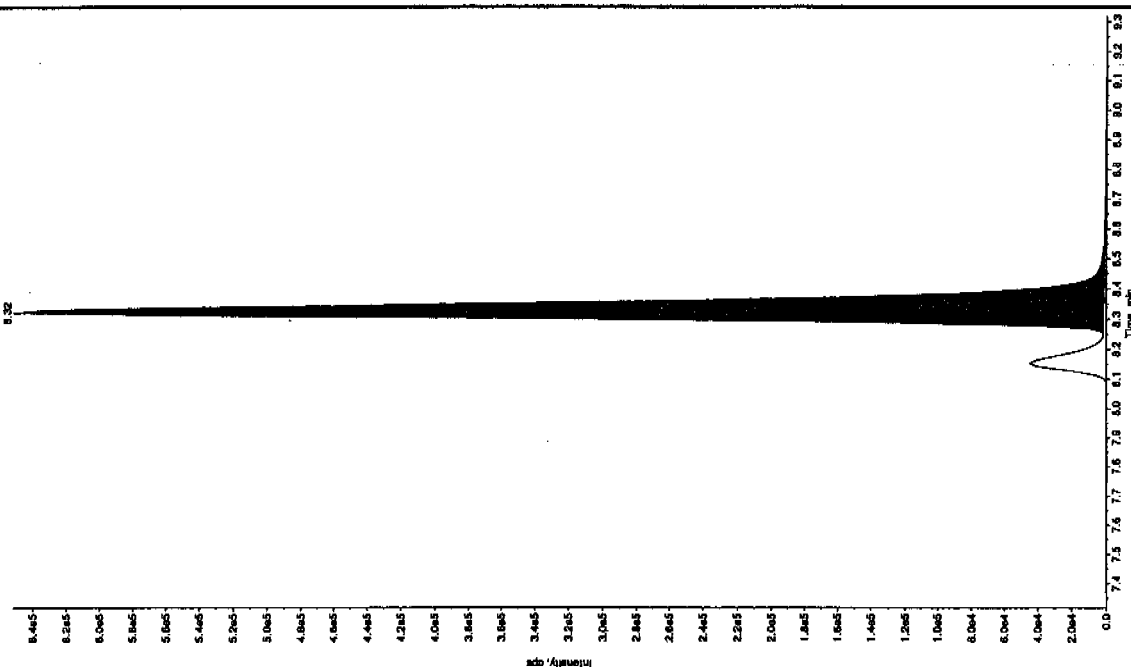
Retention Time: 8.32 min

Area: 2.46e+006 counts

Height: 65070.996 cps

Start Time: 8.25 min

End Time: 8.69 min



Sample Name: "WXX100310-25CV" Sample ID: "HLEP" File: "EXS03100011.wif"

Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "165.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 502. ng/mL

Acq. Date: 3/10/2010

Acq. Time: 6:08:30 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: 4.95 min

Use Relative RT: No

Int. Type: Valley

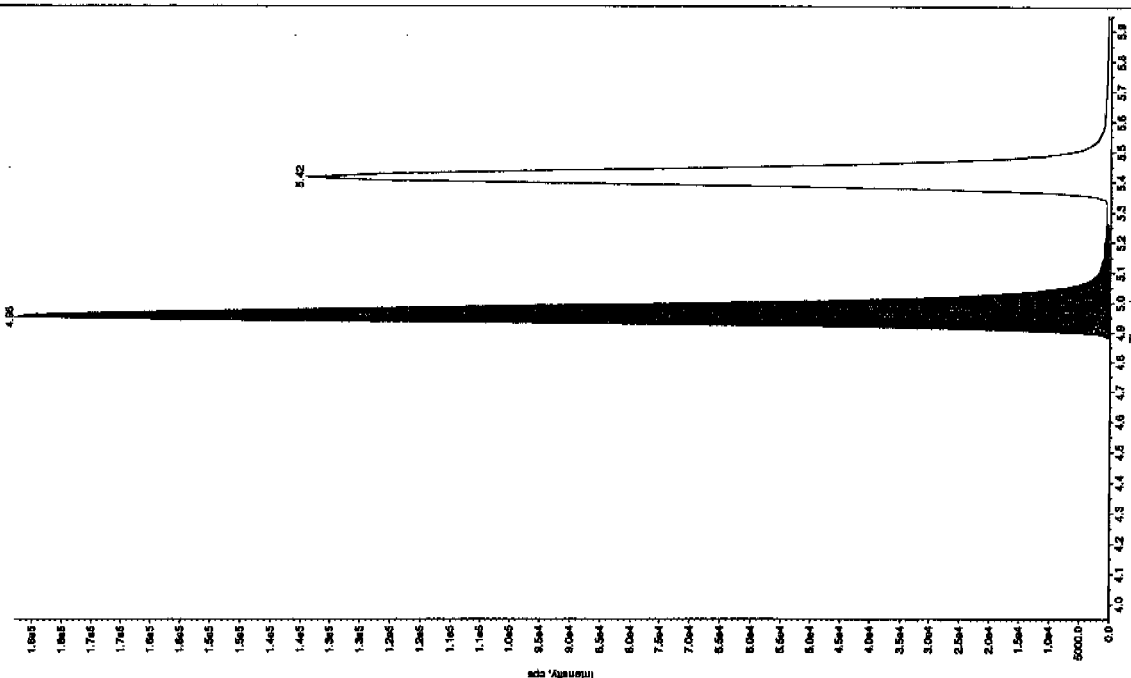
Retention Time: 4.95 min

Area: 7.68e+005 counts

Height: 182805.763 cps

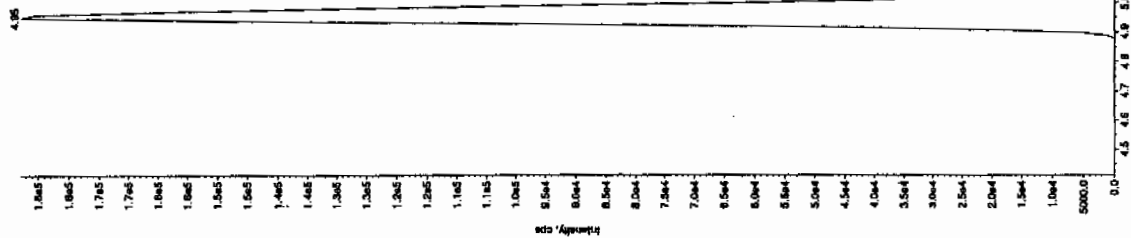
Start Time: 4.87 min

End Time: 5.26 min



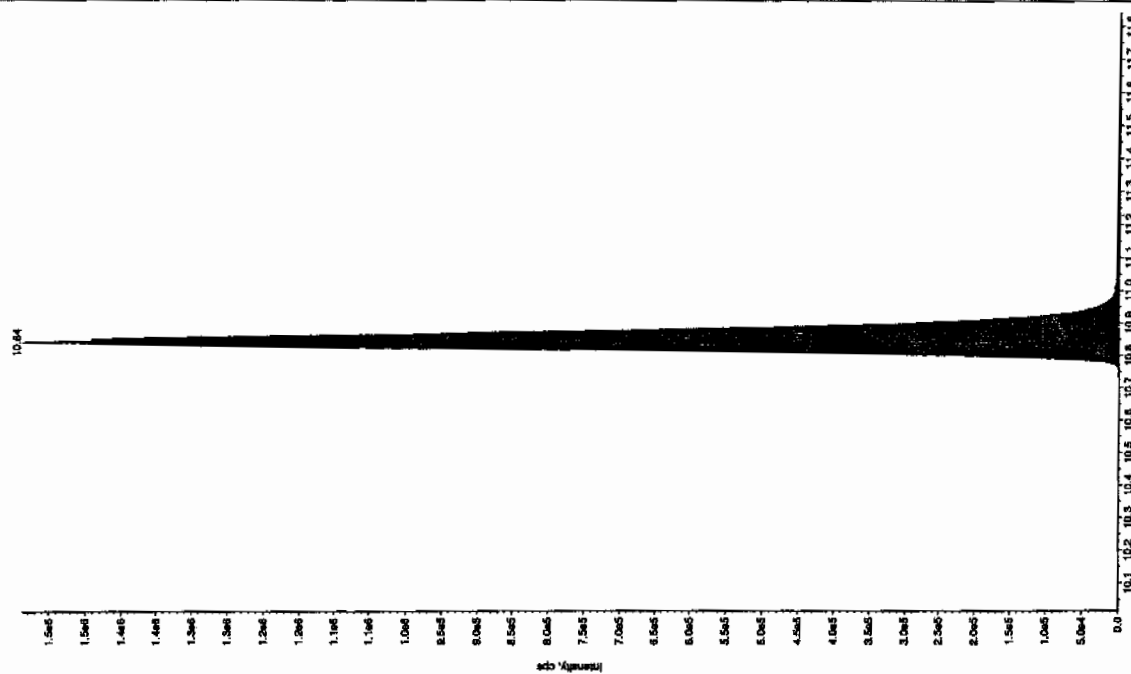
File Name: 'WXX100310-281CV' Sample ID: 'HILER' File: 'EXS03100011.wif'
 Peak Name: '24-Dienio-6-retrodiene' Mass(es): '166.048.0 amu'
 Comment: 'LONSEXP_C' Annotation: ''

Sample Index: 1
 Sample Type: 1
 Sample Conc: 500 ng/mL
 Calculated Conc: 483 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:08:30 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 5.35e+005 counts
 Height: 13403285 cps
 Start Time: 5.31 min
 End Time: 5.12 min



Sample Name: 'WXX100310-281CV' Sample ID: 'HILER' File: 'EXS03100011.wif'
 Peak Name: '365.191.0 amu' Mass(es): '365.191.0 amu'
 Comment: 'LONSEXP_C' Annotation: ''

Sample Index: 1
 Sample Type: 1
 Sample Conc: 500 ng/mL
 Calculated Conc: 483 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:08:30 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.12e+008 counts
 Height: 153728882 cps
 Start Time: 10.7 min
 End Time: 11.1 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0330012.wiff

Analysis Date: 30-MAR-10 13:27

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	37.2	93	
2,4,6-Trinitrotoluene	40	29.9	75	
2,4-Dinitrotoluene	40	35.4	89	
2,6-Dinitrotoluene	40	40.4	101	
2-Amino-4,6-dinitrotoluene	40	34	85	
3,4-Dinitrotoluene	20	20	100	
4-Amino-2,6-dinitrotoluene	40	40.2	100	
HMX	40	34.5	86	
Nitrobenzene	40	32.4	81	
PETN	40	28.8	72	
RDX	40	32.5	81	
Tetryl	40	37.1	93	
m-Dinitrobenzene	40	41	102	
m-Nitrotoluene	40	42.9	107	
o-Nitrotoluene	40	41	102	
p-Nitrotoluene	40	41.4	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%

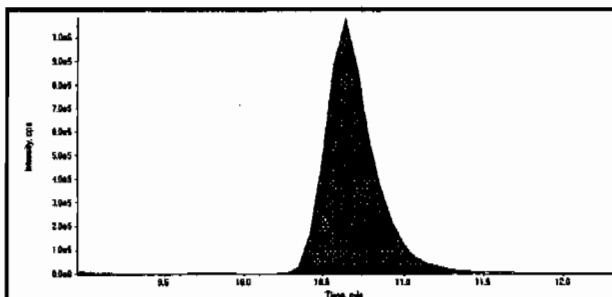
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

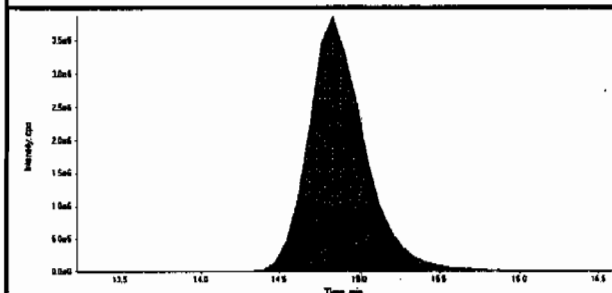
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330012.wiff	Acquisition Date	3/30/2010 1:27:19 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



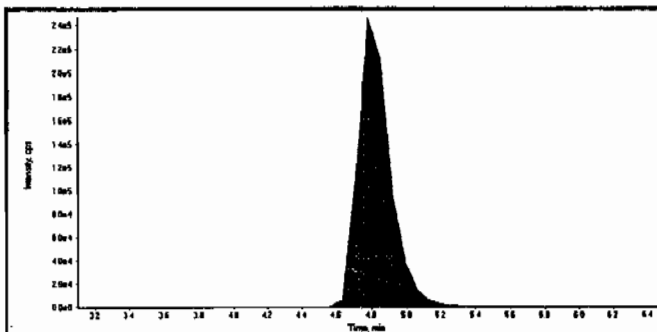
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	21600000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

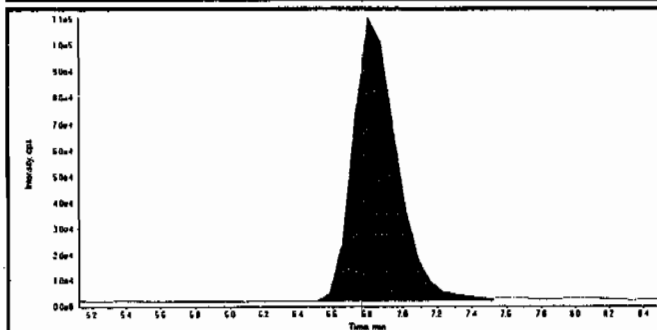


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	93900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.18e+006
Manual Modification	No
Amount:	34.5 (ng/mL)
% Accuracy:	86.30



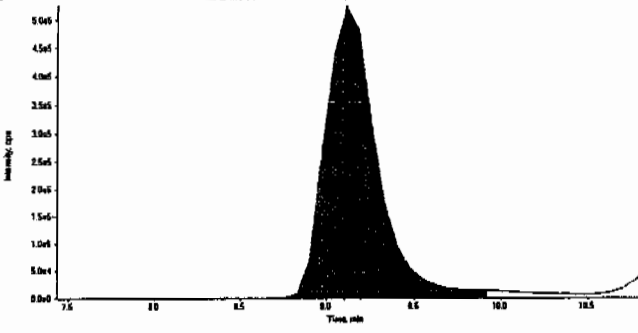
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	1.93e+006
Manual Modification	No
Amount:	32.5 (ng/mL)
% Accuracy:	81.30

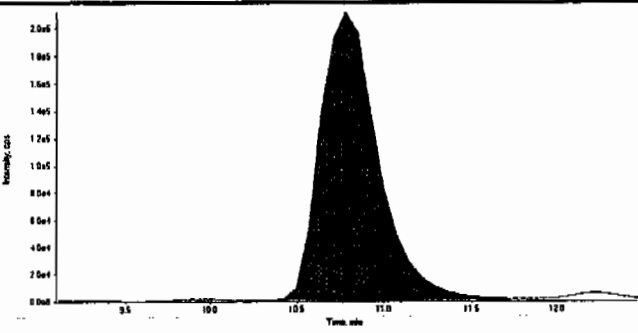
Handwritten: 4/2/10 4/2/10

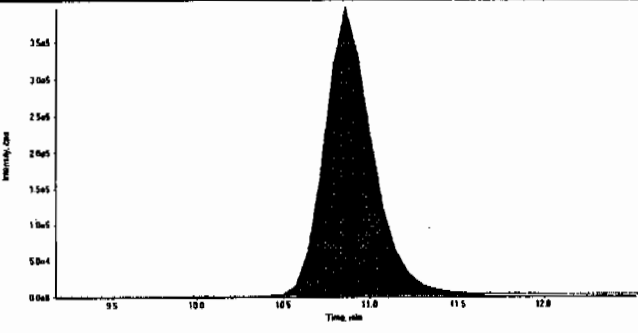
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

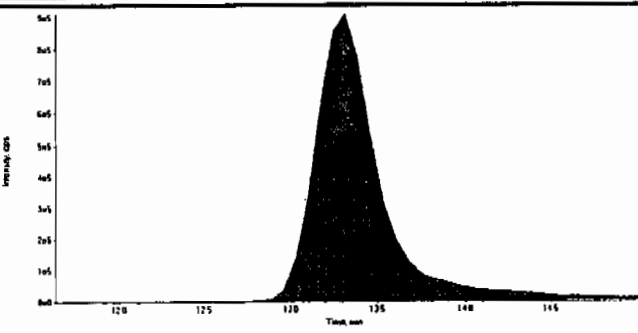
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330012.wiff	Acquisition Date	3/30/2010 1:27:19 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

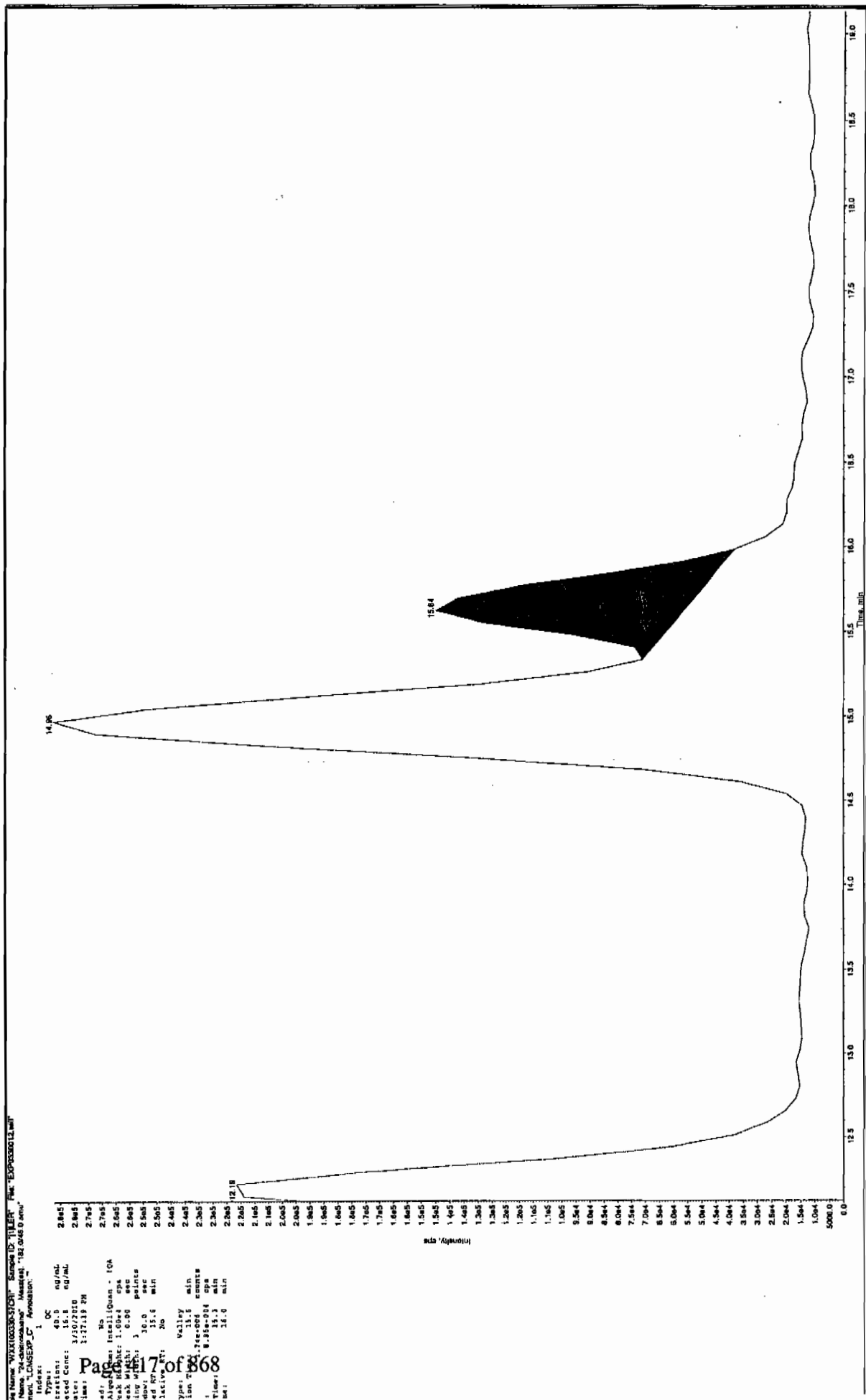
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	9.12
	Area Counts:	1.10e+007
	Manual Modification	No
	Amount:	37.2 (ng/mL)
	% Accuracy:	93.10

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	4.97e+006
	Manual Modification	No
	Amount:	41.0 (ng/mL)
	% Accuracy:	102.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	10.9
	Area Counts:	7.66e+006
	Manual Modification	No
	Amount:	37.1 (ng/mL)
	% Accuracy:	92.80

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	2.40e+007
	Manual Modification	No
	Amount:	29.9 (ng/mL)
	% Accuracy:	74.90

Before Len 4/1/10



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330012.wiff	Acquisition Date	3/30/2010 1:27:19 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	1.88e+005
	Manual Modification	No
	Amount:	32.4 (ng/mL)
	% Accuracy:	81.10

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.38e+006
	Manual Modification	No
	Amount:	20.0 (ng/mL)
	% Accuracy:	100.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	6.86e+006
	Manual Modification	No
	Amount:	40.4 (ng/mL)
	% Accuracy:	101.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	3.66e+006
	Manual Modification	Yes
	Amount:	35.4 (ng/mL)
	% Accuracy:	88.50

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330012.wiff	Acquisition Date	3/30/2010 1:27:19 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	7.61e+006
	Manual Modification	No
	Amount:	40.2 (ng/mL)
	% Accuracy:	100.00

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	14.3
	Area Counts:	2.41e+005
	Manual Modification	No
	Amount:	34.0 (ng/mL)
	% Accuracy:	84.90

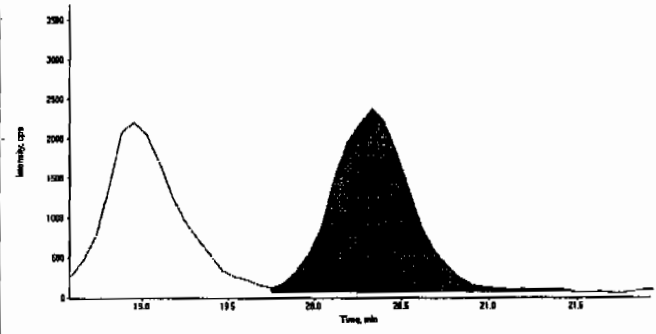
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	17.8
	Area Counts:	1.00e+005
	Manual Modification	No
	Amount:	41.0 (ng/mL)
	% Accuracy:	102.00

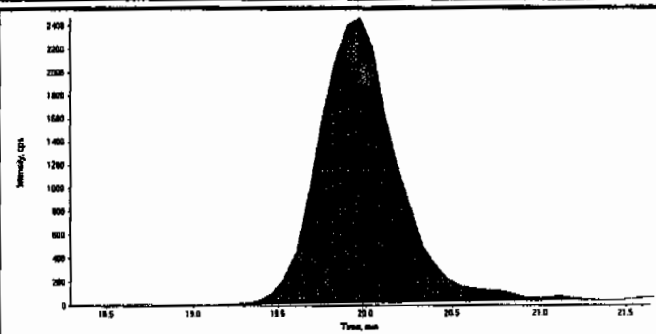
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	19.0
	Area Counts:	5.68e+004
	Manual Modification	No
	Amount:	41.4 (ng/mL)
	% Accuracy:	103.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330012.wiff	Acquisition Date	3/30/2010 1:27:19 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	20.3
	Area Counts:	7.29e+004
	Manual Modification	No
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	20.0
	Area Counts:	7.69e+004
	Manual Modification	No
	Amount:	28.8 (ng/mL)
	% Accuracy:	72.10

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/30/10
 Time of Injection 1327
 Standard Number WXX100330-57CRI
 Data File EXP0330012a

HMX	86.3
RDX	81.3
135-Trinitrobenzene	93.1
13-Dinitrobenzene	102.0
Tetryl	92.8
246-Trinitrotoluene	74.9
Nitrobenzene	81.1
34-dinitrotoluene	100.0
26-dinitrotoluene	101.0
24-dinitrotoluene	88.5
4-Amino-26-dinitrotoluene	100.0
2-Amino-46-dinitrotoluene	84.9
2-Nitrotoluene	102.0
4-Nitrotoluene	103.0
3-Nitrotoluene	107.0
PETN	72.1

TOTAL

1470.0

Handwritten: Hmx 04/02/10

AVERAGE

✓ 91.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Handwritten: Jan 4/1/10

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0330023.wiff

Analysis Date: 30-MAR-10 18:17

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
HMX	600	598	100	
Nitrobenzene	600	631	105	
PETN	600	778	130	
RDX	600	649	108	
Tetryl	600	553	92	
m-Dinitrobenzene	600	559	93	
m-Nitrotoluene	600	620	103	
o-Nitrotoluene	600	718	120	
p-Nitrotoluene	600	713	119	
1,3,5-Trinitrobenzene	600	539	90	
2,4,6-Trinitrotoluene	600	626	104	
2,4-Dinitrotoluene	600	621	104	
2,6-Dinitrotoluene	600	565	94	
2-Amino-4,6-dinitrotoluene	600	649	108	
3,4-Dinitrotoluene	300	287	96	
4-Amino-2,6-dinitrotoluene	600	583	97	

Recovery Limits:

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

Other Target Analytes 80-120%

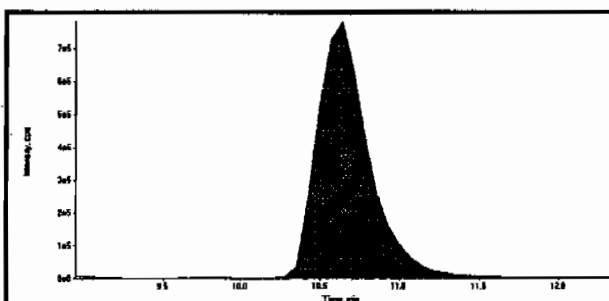
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

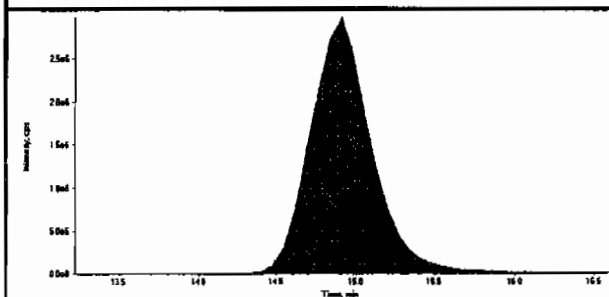
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

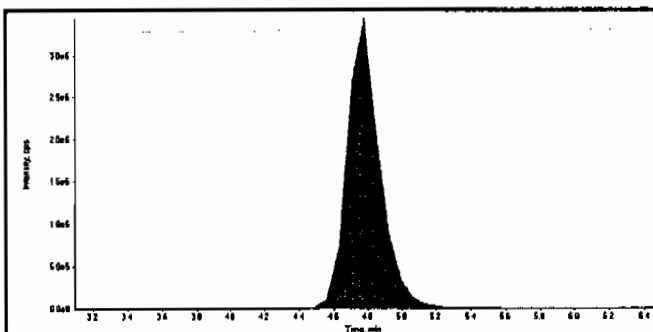
Data File	EXP0330023.wiff	Acquisition Date	3/30/2010 6:17:49 PM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



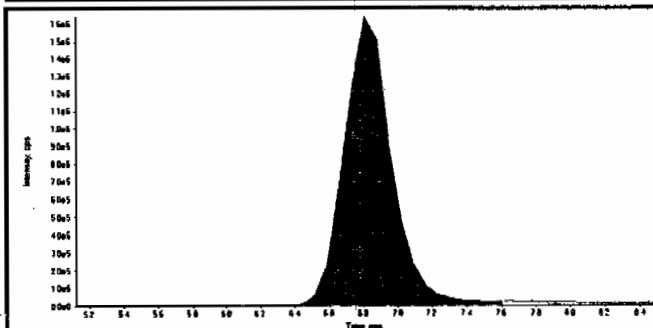
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	17800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	79800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	4.54e+007
Manual Modification	No
Amount:	598. (ng/mL)
% Accuracy:	99.70



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	3.17e+007
Manual Modification	No
Amount:	649. (ng/mL)
% Accuracy:	108.00

See 4/2/10
4/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330023.wiff	Acquisition Date	3/30/2010 6:17:49 PM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	9.12
	Area Counts:	1.32e+008
	Manual Modification	No
	Amount:	539. (ng/mL)
	% Accuracy:	89.80

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	5.60e+007
	Manual Modification	No
	Amount:	559. (ng/mL)
	% Accuracy:	93.20

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	10.9
	Area Counts:	9.43e+007
	Manual Modification	No
	Amount:	553. (ng/mL)
	% Accuracy:	92.20

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	13.2
	Area Counts:	2.53e+008
	Manual Modification	No
	Amount:	626. (ng/mL)
	% Accuracy:	104.00

L SOP GL-0A-E-056, Method 8321A-Modified LCMSMS#3

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330023.wiff	Acquisition Date	3/30/2010 6:17:49 PM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	3.02e+006
	Manual Modification	No
	Amount:	631. (ng/mL)
	% Accuracy:	105.00

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	5.34e+007
	Manual Modification	No
	Amount:	287. (ng/mL)
	% Accuracy:	95.80

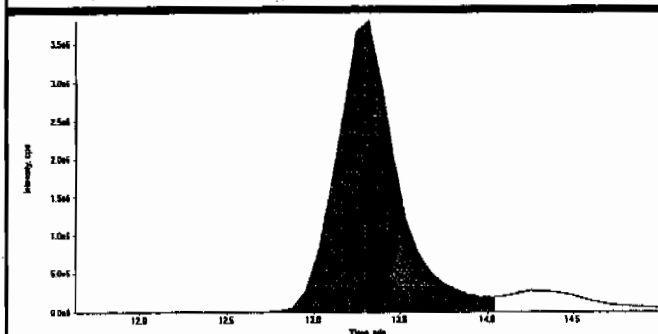
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	8.15e+007
	Manual Modification	No
	Amount:	565. (ng/mL)
	% Accuracy:	94.20

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	5.46e+007
	Manual Modification	Yes
	Amount:	621. (ng/mL)
	% Accuracy:	104.00

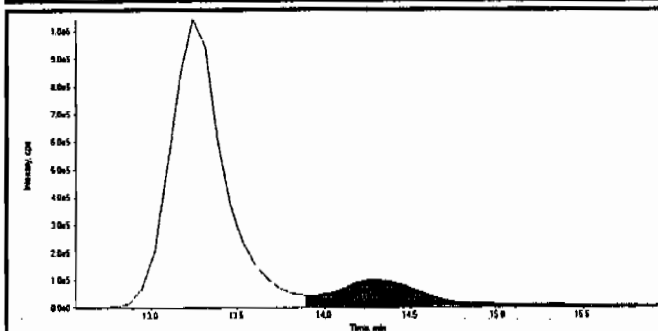
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

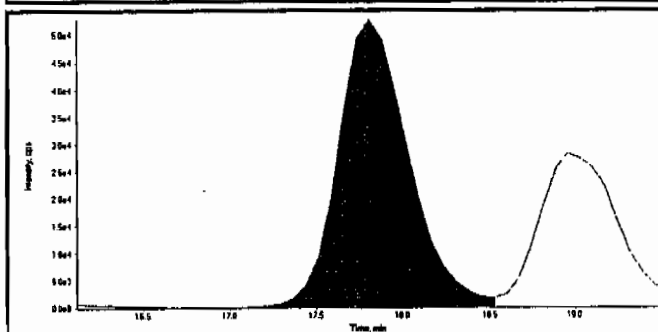
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Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



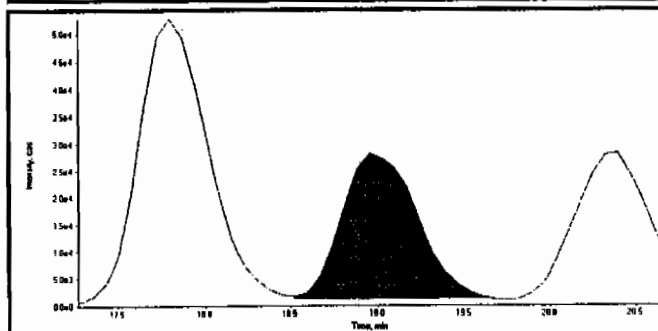
Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	13.3
Area Counts:	9.38e+007
Manual Modification	No
Amount:	583. (ng/mL)
% Accuracy:	97.10



Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	14.3
Area Counts:	3.92e+006
Manual Modification	No
Amount:	649. (ng/mL)
% Accuracy:	108.00



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	17.8
Area Counts:	1.49e+006
Manual Modification	No
Amount:	718. (ng/mL)
% Accuracy:	120.00

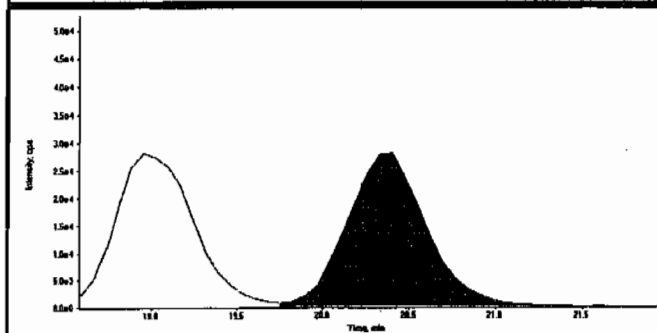


Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	19.0
Area Counts:	8.33e+005
Manual Modification	No
Amount:	713. (ng/mL)
% Accuracy:	119.00

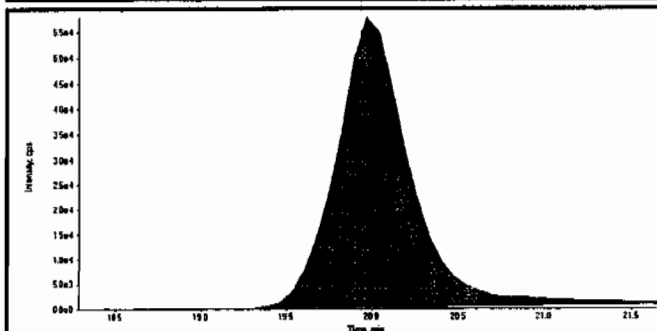
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330023.wiff	Acquisition Date	3/30/2010 6:17:49 PM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.3
Actual RT:	20.4
Area Counts:	8.95e+005
Manual Modification	No
Amount:	620. (ng/mL)
% Accuracy:	103.00



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	20.0
Actual RT:	20.0
Area Counts:	1.76e+006
Manual Modification	No
Amount:	778. (ng/mL)
% Accuracy:	130.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/30/10
 Time of Injection 1817
 Standard Number WXX100330-56CCV
 Data File EXP0330023a

HMX	99.7
RDX	108.0
135-Trinitrobenzene	89.8
13-Dinitrobenzene	93.2
Tetryl	92.2
246-Trinitrotoluene	104.0
Nitrobenzene	105.0
34-dinitrotoluene	95.8
26-dinitrotoluene	94.2
24-dinitrotoluene	104.0
4-Amino-26-dinitrotoluene	97.1
2-Amino-46-dinitrotoluene	108.0
2-Nitrotoluene	120.0
4-Nitrotoluene	119.0
3-Nitrotoluene	103.0
PETN	130.0

TOTAL

1663.0

Hum. 04/02/10

AVERAGE

✓ 103.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Jan 4/11/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0330025.wiff

Analysis Date: 30-MAR-10 19:10

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	38.7	97	
2,4,6-Trinitrotoluene	40	35.3	88	
2,4-Dinitrotoluene	40	44	110	
2,6-Dinitrotoluene	40	48.3	121	
2-Amino-4,6-dinitrotoluene	40	35.9	90	
3,4-Dinitrotoluene	20	23.3	117	
4-Amino-2,6-dinitrotoluene	40	50.4	126	
HMX	40	38.9	97	
Nitrobenzene	40	35.6	89	
PETN	40	52.7	132	
RDX	40	41	103	
Tetryl	40	39.3	98	
m-Dinitrobenzene	40	36.6	92	
m-Nitrotoluene	40	38.1	95	
o-Nitrotoluene	40	47.7	119	
p-Nitrotoluene	40	45.5	114	

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%

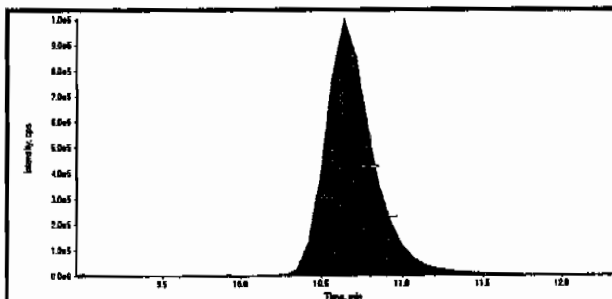
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

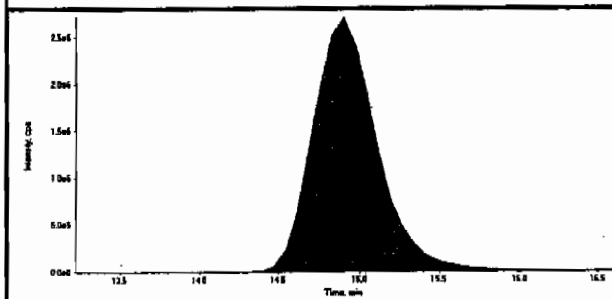
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

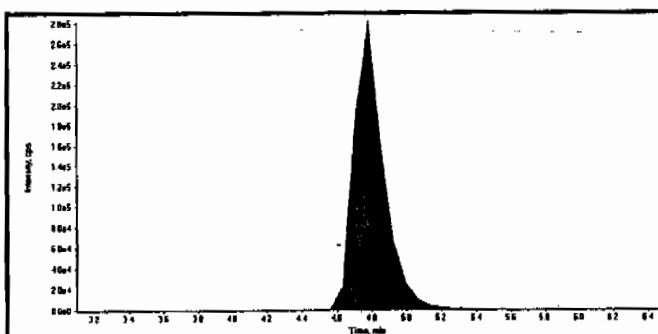
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Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



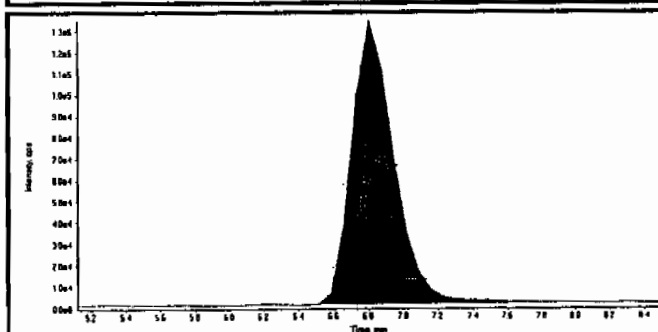
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	20100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	74600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.33e+006
Manual Modification	No
Amount:	38.9 (ng/mL)
% Accuracy:	97.30



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	2.26e+006
Manual Modification	No
Amount:	41.0 (ng/mL)
% Accuracy:	103.00

Law
4/2/10

Hmw
04/02/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330025.wiff	Acquisition Date	3/30/2010 7:10:35 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

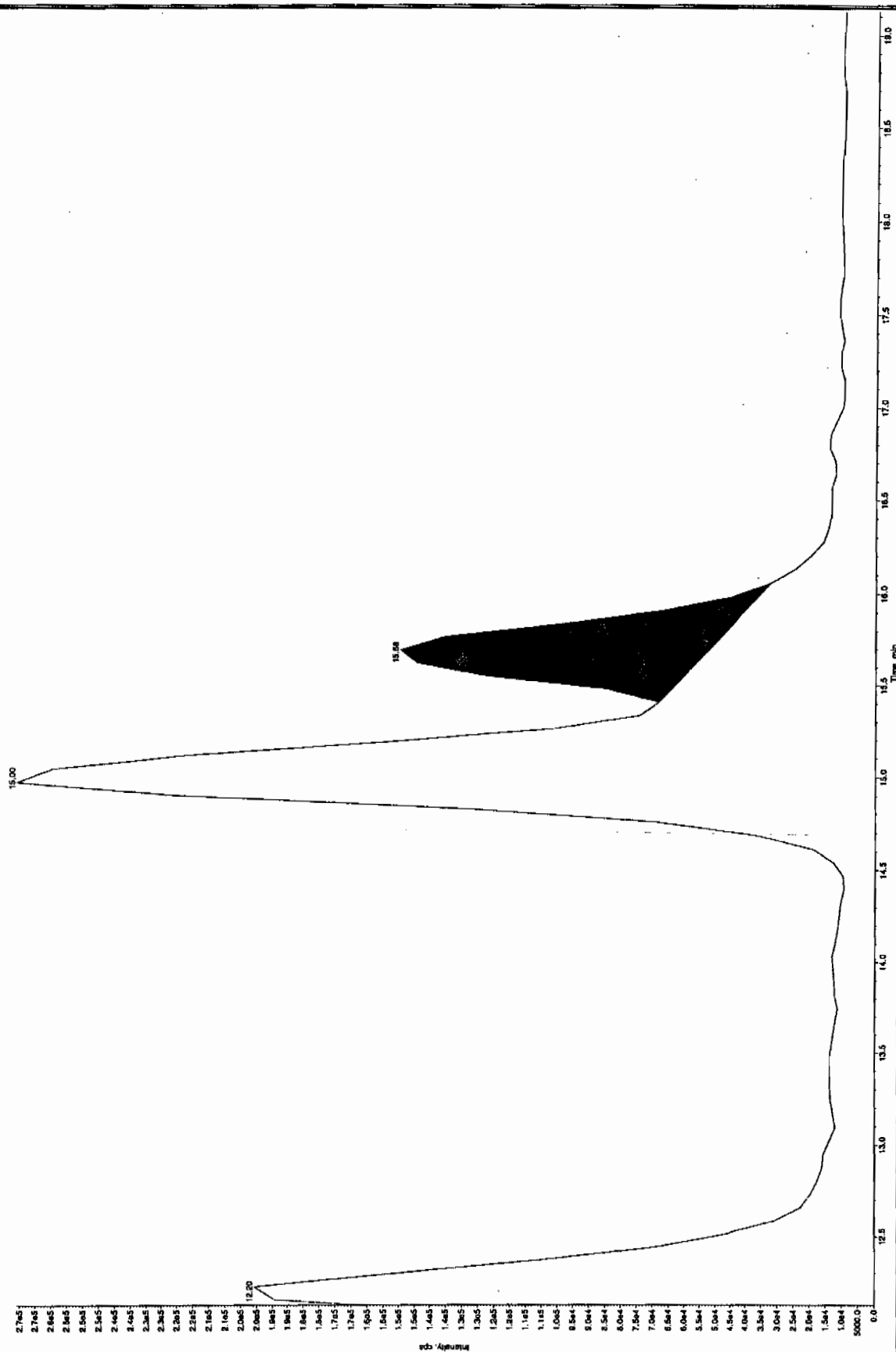
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	9.12
	Area Counts:	1.07e+007
	Manual Modification	No
	Amount:	38.7 (ng/mL)
	% Accuracy:	96.80

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	4.13e+006
	Manual Modification	No
	Amount:	36.6 (ng/mL)
	% Accuracy:	91.50

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	10.9
	Area Counts:	7.56e+006
	Manual Modification	No
	Amount:	39.3 (ng/mL)
	% Accuracy:	98.30

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	2.14e+007
	Manual Modification	No
	Amount:	35.3 (ng/mL)
	% Accuracy:	88.20

Lab Name: "VXX100330-57C1" Sample ID: "11ER" File: "EXP0300025.wif"
Name: "2,4-Dinitrofluorene" Mass(es): "182.0/46.0 amu"

[illegible]

EL SOP GL-0A-E-056, Method 8321A-Modified LCMSMS#3

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330025.wiff	Acquisition Date	3/30/2010 7:10:35 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	1.92e+005
	Manual Modification	No
	Amount:	35.6 (ng/mL)
	% Accuracy:	89.00

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.05e+006
	Manual Modification	No
	Amount:	23.3 (ng/mL)
	% Accuracy:	117.00

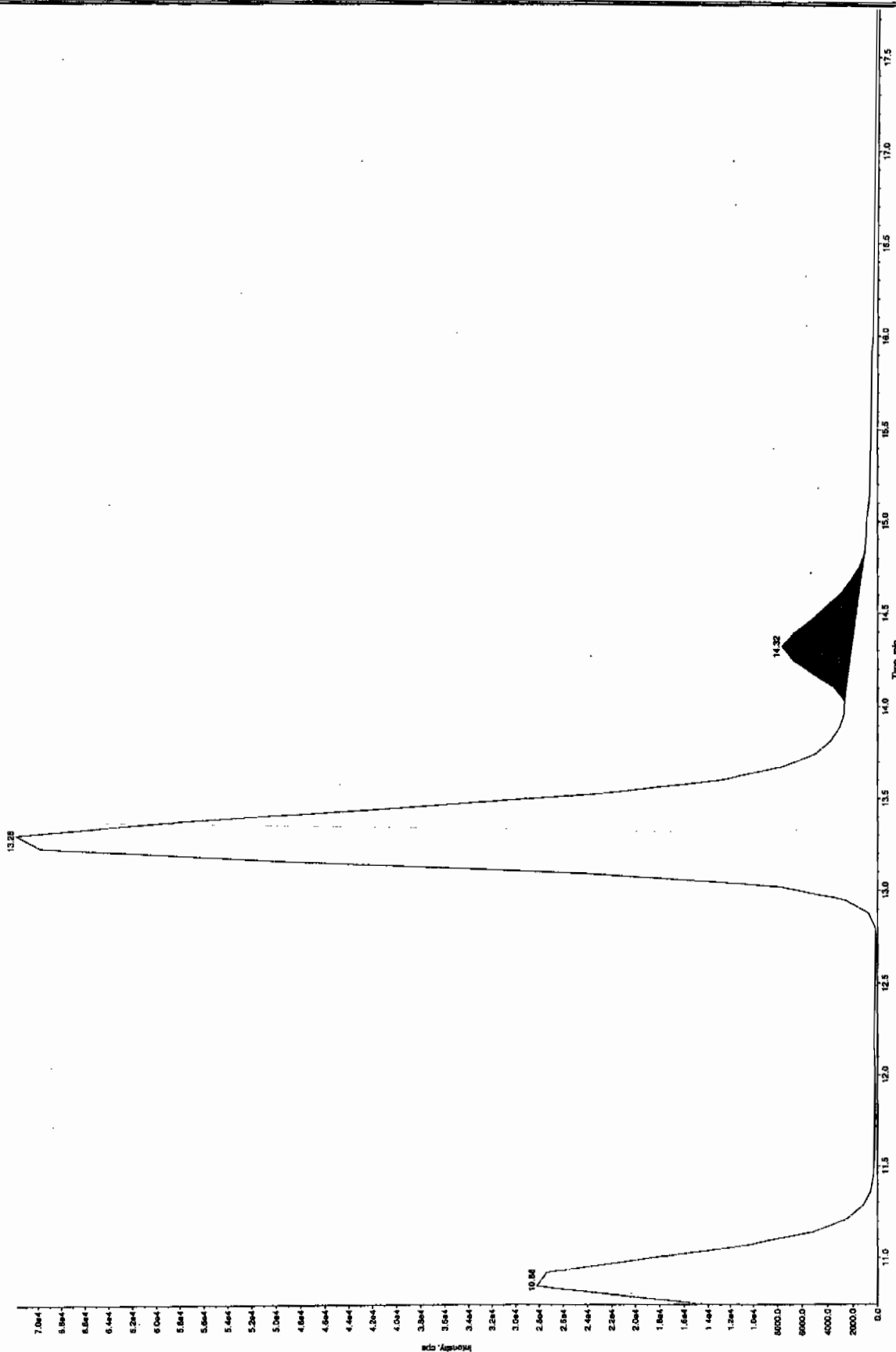
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	6.51e+006
	Manual Modification	No
	Amount:	48.3 (ng/mL)
	% Accuracy:	121.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	3.61e+006
	Manual Modification	Yes
	Amount:	44.0 (ng/mL)
	% Accuracy:	110.00

Before Jan 41/10

Sample: "W00100350-3725" Sample ID: "HLEP" File: "E010303025.wif"
 Name: "HLEP" Method: "MS/MS" Masses: "187.071800 amu"

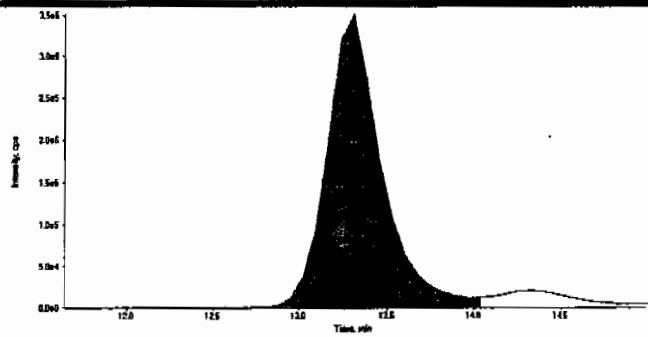
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 Type: OC
 Location: 10.0 ng/mL
 Date: 7/10/2010
 Time: 1:10:35 PM
 ID: 1
 Name: HLEP
 Peak Height: 1000.00 cps
 Peak Width: 0.80 sec
 Ling Width: 3.00 points
 Ling Offset: 30.0 points
 Ling Delay: 14.3 min
 Ling Rate: No
 Ling Type: Valley
 Ling Time: 1.19e+003 counts
 Ling Time: 5.63e+003 cps
 Ling Time: 14.0 min
 Ling Time: 14.0 min

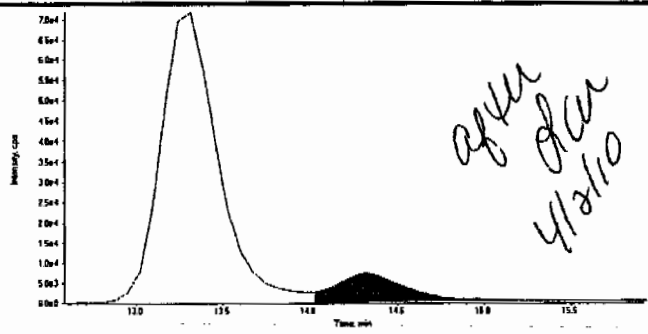


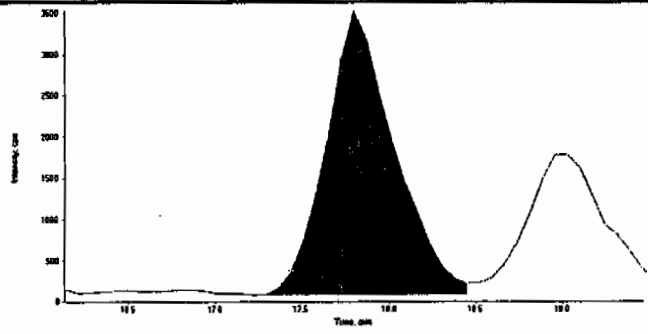
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

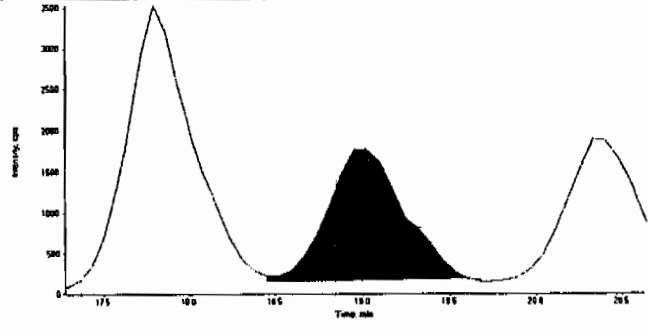
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330025.wiff	Acquisition Date	3/30/2010 7:10:35 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	7.58e+006
	Manual Modification	No
	Amount:	50.4 (ng/mL)
	% Accuracy:	126.00

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	14.3
	Area Counts:	2.02e+005
	Manual Modification	Yes
	Amount:	35.9 (ng/mL)
	% Accuracy:	89.60

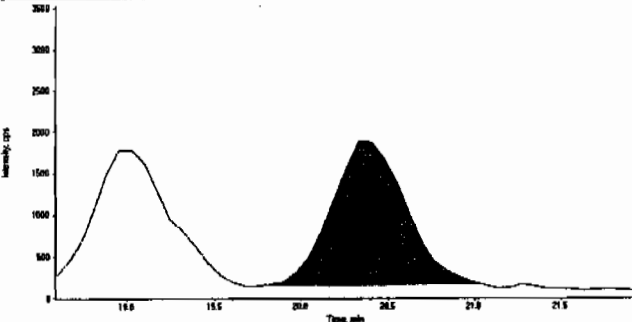
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	17.8
	Area Counts:	9.29e+004
	Manual Modification	No
	Amount:	47.7 (ng/mL)
	% Accuracy:	119.00

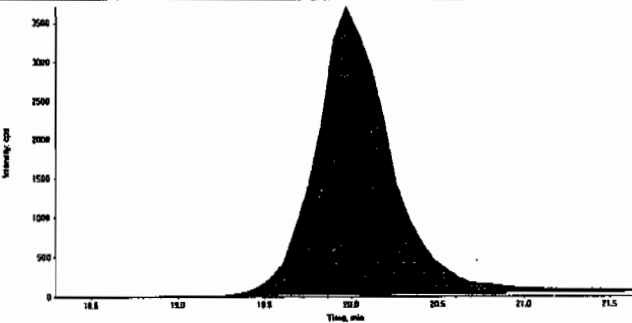
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	19.0
	Area Counts:	4.96e+004
	Manual Modification	No
	Amount:	45.5 (ng/mL)
	% Accuracy:	114.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330025.wiff	Acquisition Date	3/30/2010 7:10:35 PM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	20.3
	Area Counts:	5.15e+004
	Manual Modification	No
	Amount:	38.1 (ng/mL)
	% Accuracy:	95.40

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	20.0
	Area Counts:	1.12e+005
	Manual Modification	No
	Amount:	52.7 (ng/mL)
	% Accuracy:	132.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/30/10
 Time of Injection 1910
 Standard Number WXX100330-57CRI
 Data File EXP0330025a

HMX	97.3
RDX	103.0
135-Trinitrobenzene	96.8
13-Dinitrobenzene	91.5
Tetryl	98.3
246-Trinitrotoluene	88.2
Nitrobenzene	89.0
34-dinitrotoluene	117.0
26-dinitrotoluene	121.0
24-dinitrotoluene	110.0
4-Amino-26-dinitrotoluene	126.0
2-Amino-46-dinitrotoluene	89.6
2-Nitrotoluene	119.0
4-Nitrotoluene	114.0
3-Nitrotoluene	95.4
PETN	132.0

TOTAL

1688.1

Handwritten: 4/11/10

AVERAGE

✓ 105.5

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Handwritten: Jan 4/11/10

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0330036.wiff

Analysis Date: 31-MAR-10 00:01

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	497	83	
2,4,6-Trinitrotoluene	600	574	96	
2,4-Dinitrotoluene	600	580	97	
2,6-Dinitrotoluene	600	558	93	
2-Amino-4,6-dinitrotoluene	600	597	100	
3,4-Dinitrotoluene	300	302	101	
4-Amino-2,6-dinitrotoluene	600	553	92	
HMX	600	430	72	
Nitrobenzene	600	594	99	
PETN	600	593	99	
RDX	600	585	97	
Tetryl	600	562	94	
m-Dinitrobenzene	600	585	98	
m-Nitrotoluene	600	526	88	
o-Nitrotoluene	600	564	94	
p-Nitrotoluene	600	533	89	

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%

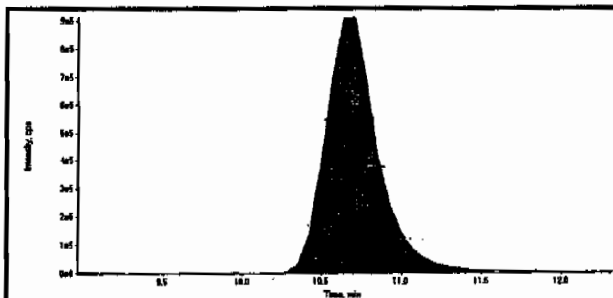
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

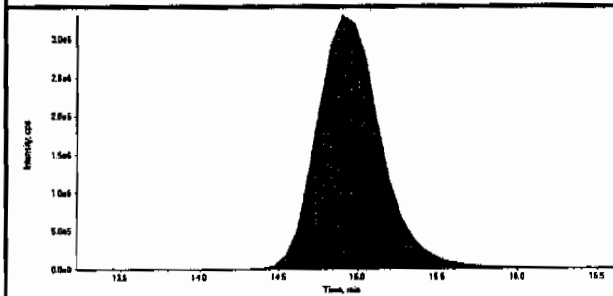
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

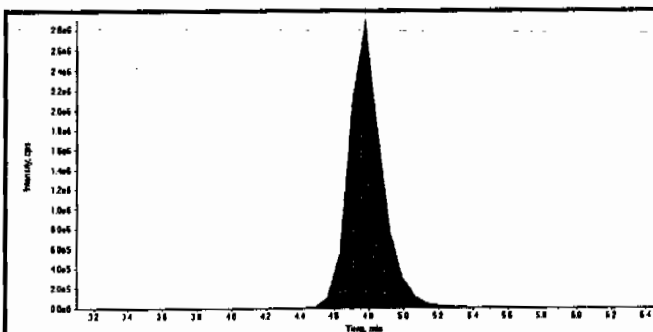
Data File	EXP0330036.wiff	Acquisition Date	3/31/2010 12:01:12 AM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



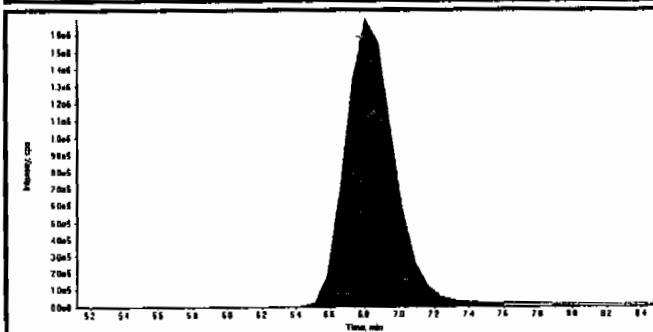
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	20700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	93100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.79e+007
Manual Modification	No
Amount:	430. (ng/mL)
% Accuracy:	71.60



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	3.32e+007
Manual Modification	No
Amount:	585. (ng/mL)
% Accuracy:	97.40

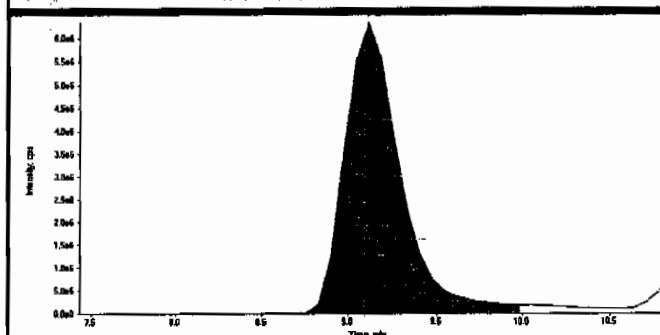
Handwritten: 4/12/10

Handwritten: Hmx 84/24/10

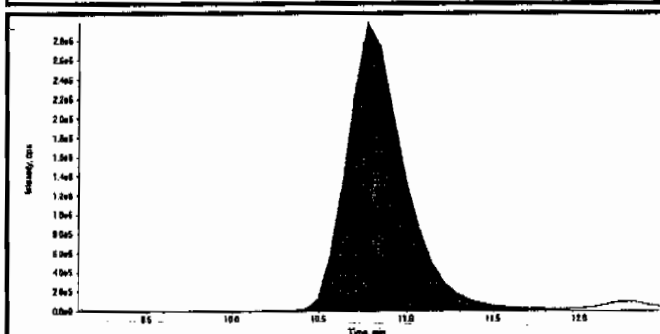
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

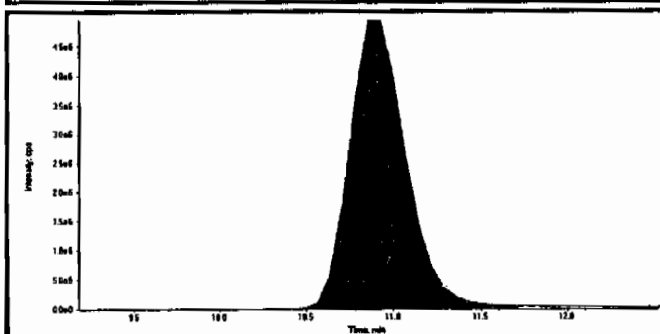
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Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



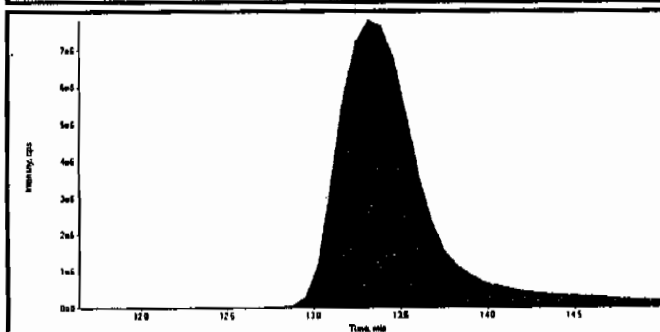
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	9.12
Actual RT:	9.12
Area Counts:	1.41e+008
Manual Modification	No
Amount:	497. (ng/mL)
% Accuracy:	82.90



Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.8
Actual RT:	10.8
Area Counts:	6.80e+007
Manual Modification	No
Amount:	585. (ng/mL)
% Accuracy:	97.50



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.9
Actual RT:	10.9
Area Counts:	1.11e+008
Manual Modification	No
Amount:	562. (ng/mL)
% Accuracy:	93.60



Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.3
Actual RT:	13.3
Area Counts:	2.76e+008
Manual Modification	No
Amount:	574. (ng/mL)
% Accuracy:	95.60

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330036.wiff	Acquisition Date	3/31/2010 12:01:12 AM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	3.31e+006
	Manual Modification	No
	Amount:	594. (ng/mL)
	% Accuracy:	99.10

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	6.54e+007
	Manual Modification	No
	Amount:	302. (ng/mL)
	% Accuracy:	101.00

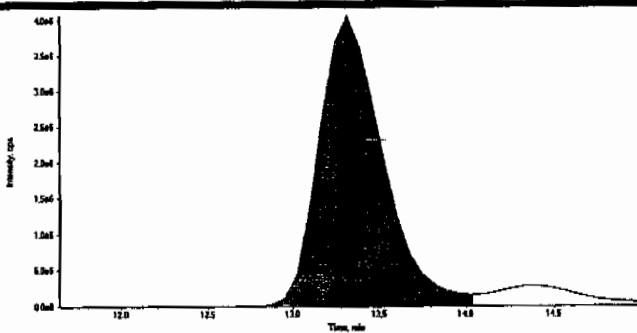
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	9.40e+007
	Manual Modification	No
	Amount:	558. (ng/mL)
	% Accuracy:	93.10

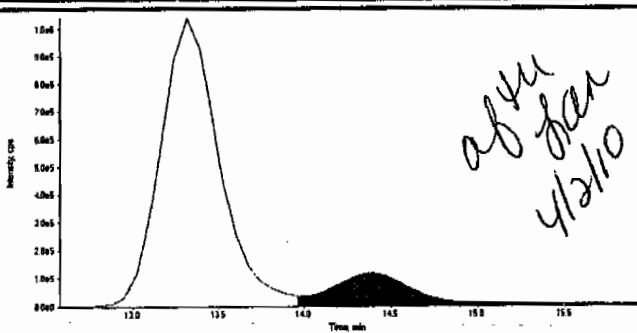
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	5.95e+007
	Manual Modification	Yes
	Amount:	580. (ng/mL)
	% Accuracy:	96.70

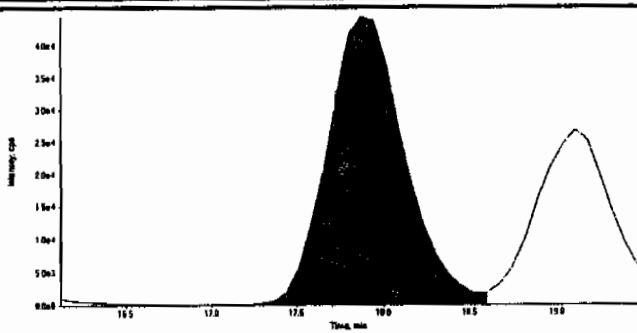
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

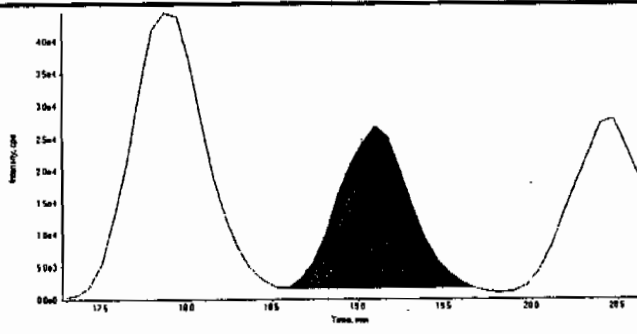
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330036.wiff	Acquisition Date	3/31/2010 12:01:12 AM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	1.04e+008
	Manual Modification	No
	Amount:	553. (ng/mL)
	% Accuracy:	92.10

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	14.4
	Area Counts:	4.21e+006
	Manual Modification	Yes
	Amount:	597. (ng/mL)
	% Accuracy:	99.50

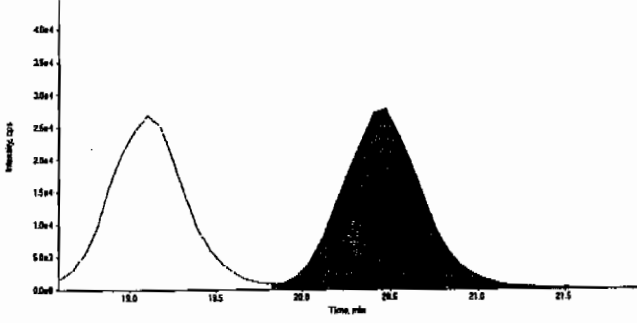
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	17.9
	Area Counts:	1.37e+006
	Manual Modification	No
	Amount:	564. (ng/mL)
	% Accuracy:	94.10

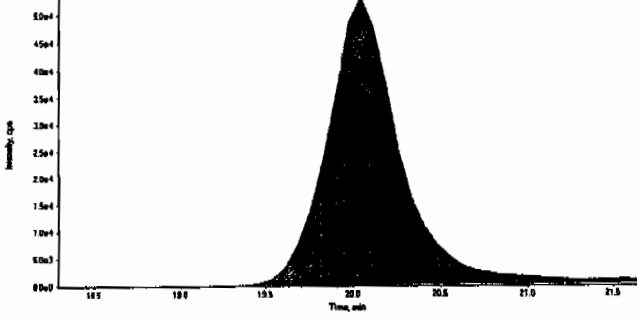
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	19.1
	Area Counts:	7.26e+005
	Manual Modification	No
	Amount:	533. (ng/mL)
	% Accuracy:	88.80

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330036.wiff	Acquisition Date	3/31/2010 12:01:12 AM
Sample Name	WXX100330-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	20.5
	Area Counts:	8.86e+005
	Manual Modification	No
	Amount:	526. (ng/mL)
	% Accuracy:	87.60

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	20.0
	Area Counts:	1.57e+006
	Manual Modification	No
	Amount:	593. (ng/mL)
	% Accuracy:	98.80

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/31/10
 Time of Injection 0001
 Standard Number WXX100330-56CCV
 Data File EXP0330036a

HMX	71.6
RDX	97.4
135-Trinitrobenzene	82.9
13-Dinitrobenzene	97.5
Tetryl	93.6
246-Trinitrotoluene	95.6
Nitrobenzene	99.1
34-dinitrotoluene	101.0
26-dinitrotoluene	93.1
24-dinitrotoluene	96.7
4-Amino-26-dinitrotoluene	92.1
2-Amino-46-dinitrotoluene	99.5
2-Nitrotoluene	94.1
4-Nitrotoluene	88.8
3-Nitrotoluene	87.6
PETN	98.8

TOTAL 1489.4

AVERAGE

93.1

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Ham 04/02/10

Jan 4/11/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0330038.wiff

Analysis Date: 31-MAR-10 00:53

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	47.4	118	
2,4,6-Trinitrotoluene	40	29.7	74	
2,4-Dinitrotoluene	40	35.5	89	
2,6-Dinitrotoluene	40	48	120	
2-Amino-4,6-dinitrotoluene	40	31.4	78	
3,4-Dinitrotoluene	20	19.8	99	
4-Amino-2,6-dinitrotoluene	40	38.8	97	
HMX	40	48	120	
Nitrobenzene	40	36.3	91	
PETN	40	33.3	83	
RDX	40	38.5	96	
Tetryl	40	45	112	
m-Dinitrobenzene	40	42.3	106	
m-Nitrotoluene	40	25.7	64	
o-Nitrotoluene	40	25.9	65	
p-Nitrotoluene	40	27.3	68	

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%

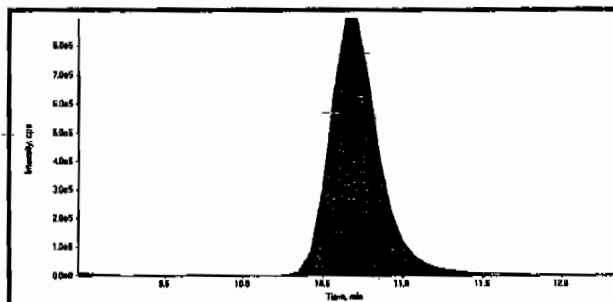
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

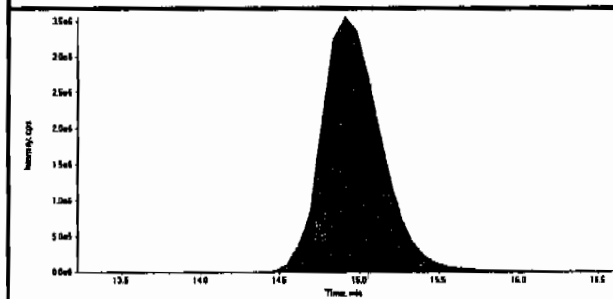
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

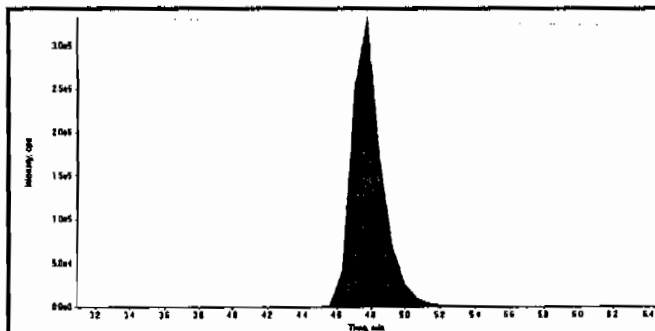
Data File	EXP0330038.wiff	Acquisition Date	3/31/2010 12:53:49 AM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



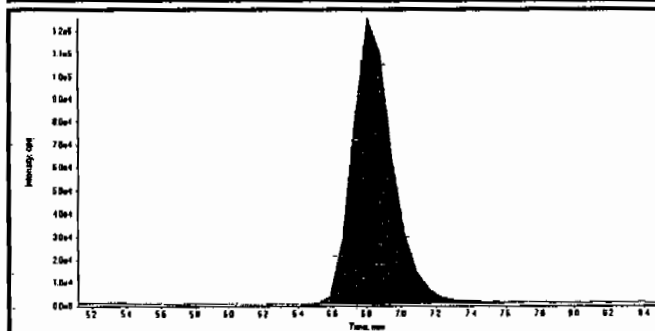
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	19500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	93200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.98e+006
Manual Modification	No
Amount:	48.0 (ng/mL)
% Accuracy:	120.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	2.06e+006
Manual Modification	No
Amount:	38.5 (ng/mL)
% Accuracy:	96.30

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Handwritten: 4/2/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330038.wiff	Acquisition Date	3/31/2010 12:53:49 AM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	9.12
	Area Counts:	1.26e+007
	Manual Modification	No
	Amount:	47.4 (ng/mL)
	% Accuracy:	118.00

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	4.62e+006
	Manual Modification	No
	Amount:	42.3 (ng/mL)
	% Accuracy:	106.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	10.9
	Area Counts:	8.38e+006
	Manual Modification	No
	Amount:	45.0 (ng/mL)
	% Accuracy:	112.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	13.3
	Area Counts:	2.37e+007
	Manual Modification	No
	Amount:	29.7 (ng/mL)
	% Accuracy:	74.40

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330038.wiff	Acquisition Date	3/31/2010 12:53:49 AM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	1.90e+005
	Manual Modification	No
	Amount:	36.3 (ng/mL)
	% Accuracy:	90.70

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.28e+006
	Manual Modification	No
	Amount:	19.8 (ng/mL)
	% Accuracy:	98.80

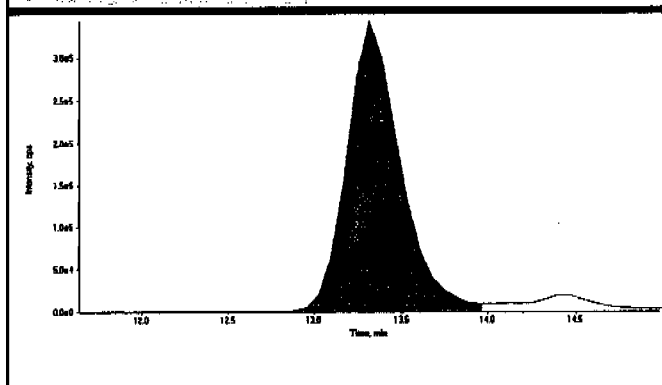
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	15.0
	Area Counts:	8.08e+006
	Manual Modification	No
	Amount:	48.0 (ng/mL)
	% Accuracy:	120.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	3.65e+006
	Manual Modification	No
	Amount:	35.5 (ng/mL)
	% Accuracy:	88.80

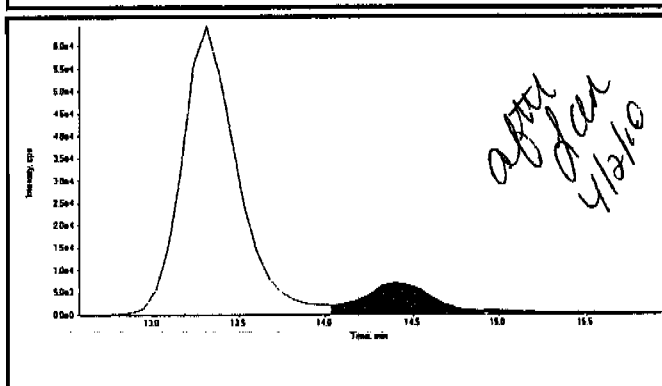
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

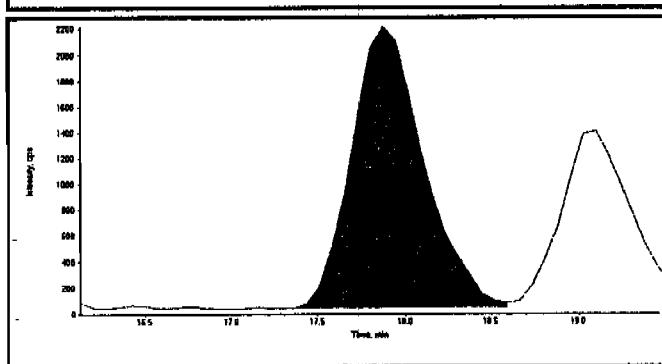
Data File	EXP0330038.wiff	Acquisition Date	3/31/2010 12:53:49 AM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



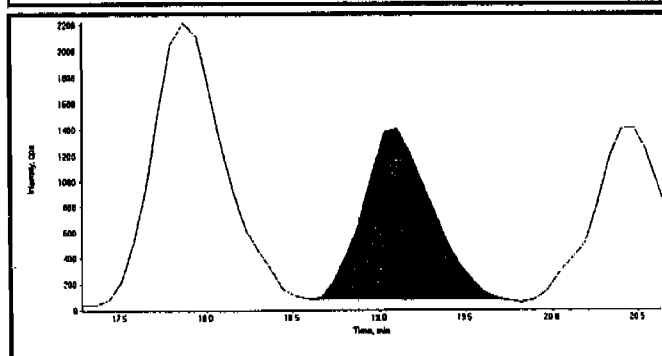
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	13.3
Area Counts:	7.28e+006
Manual Modification	No
Amount:	38.8 (ng/mL)
% Accuracy:	96.90



Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	14.4
Area Counts:	2.21e+005
Manual Modification	Yes
Amount:	31.4 (ng/mL)
% Accuracy:	78.40



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	17.9
Area Counts:	6.30e+004
Manual Modification	No
Amount:	25.9 (ng/mL)
% Accuracy:	64.80

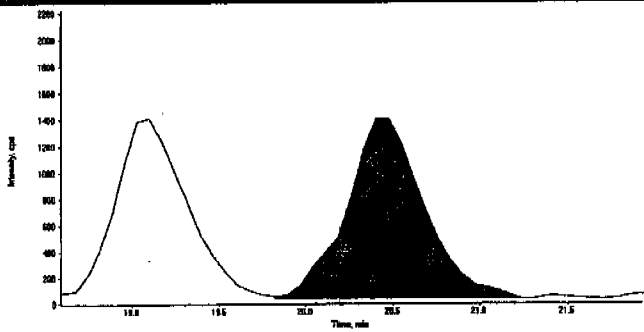


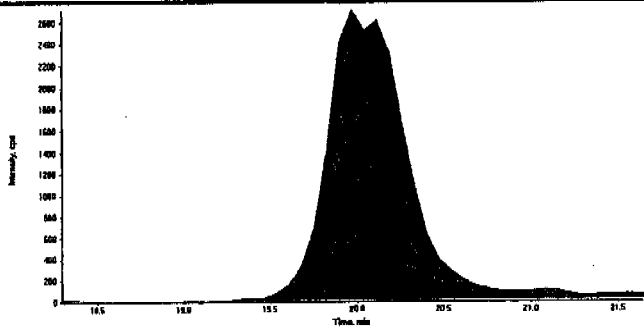
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	19.1
Area Counts:	3.72e+004
Manual Modification	No
Amount:	27.3 (ng/mL)
% Accuracy:	68.30

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330038.wiff	Acquisition Date	3/31/2010 12:53:49 AM
Sample Name	WXX100330-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	033010.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	20.5
	Area Counts:	4.33e+004
	Manual Modification	No
	Amount:	25.7 (ng/mL)
	% Accuracy:	64.20

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	20.0
	Area Counts:	8.82e+004
	Manual Modification	No
	Amount:	33.3 (ng/mL)
	% Accuracy:	83.30

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/31/10
 Time of Injection 0053
 Standard Number WXX100330-57CRI
 Data File EXP0330038a

HMX	120.0
RDX	96.3
135-Trinitrobenzene	118.0
13-Dinitrobenzene	106.0
Tetryl	112.0
246-Trinitrotoluene	74.4
Nitrobenzene	90.7
34-dinitrotoluene	98.8
26-dinitrotoluene	120.0
24-dinitrotoluene	88.8
4-Amino-26-dinitrotoluene	96.9
2-Amino-46-dinitrotoluene	78.4
2-Nitrotoluene	64.8
4-Nitrotoluene	68.3
3-Nitrotoluene	64.2
PETN	83.3

TOTAL

1480.9

Handwritten: HMX 04/02/10

AVERAGE

✓ 92.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Handwritten: Jar 4/11/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0401012.wiff

Analysis Date: 01-APR-10 16:28

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4,6-Trinitrotoluene	40	51.5	129	
2,4-Dinitrotoluene	40	42.9	107	
2,6-Dinitrotoluene	40	43.9	110	
2-Amino-4,6-dinitrotoluene	40	40.3	101	
3,4-Dinitrotoluene	20	21.4	107	
4-Amino-2,6-dinitrotoluene	40	44.7	112	
HMX	40	37.8	95	
Nitrobenzene	40	43	107	
PETN	40	42.2	105	
RDX	40	36.9	92	
Tetryl	40	47.2	118	
m-Dinitrobenzene	40	40.8	102	
m-Nitrotoluene	40	45	113	
o-Nitrotoluene	40	42.1	105	
p-Nitrotoluene	40	42.8	107	
1,3,5-Trinitrobenzene	40	46	115	

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%

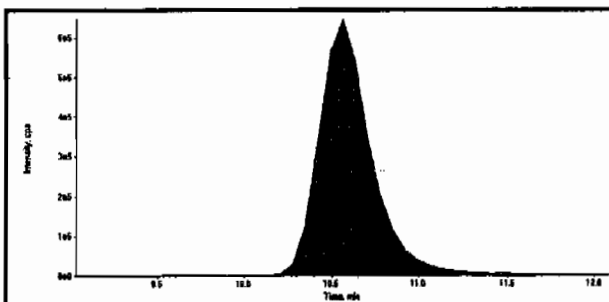
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

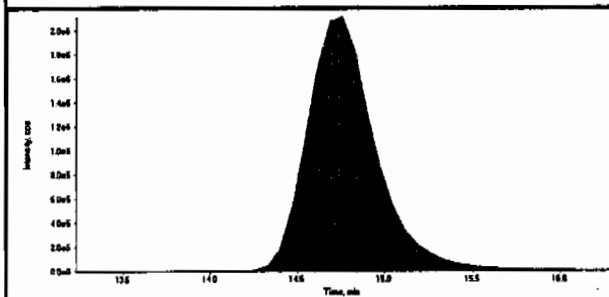
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

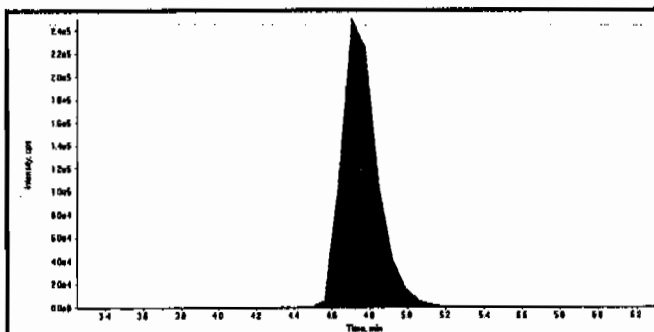
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Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



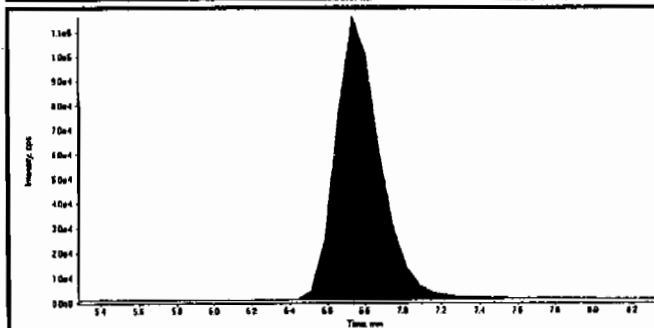
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	13400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	58100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.70
Area Counts:	3.29e+006
Manual Modification	No
Amount:	37.8 (ng/mL)
% Accuracy:	94.60



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.73
Area Counts:	1.90e+006
Manual Modification	No
Amount:	36.9 (ng/mL)
% Accuracy:	92.20

Handwritten: Jax 4/9/10

Handwritten: Jax 04/09/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401012.wiff	Acquisition Date	4/1/2010 4:28:28 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	9.04
	Area Counts:	9.27e+006
	Manual Modification	No
	Amount:	46.0 (ng/mL)
	% Accuracy:	115.00

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	10.6
	Area Counts:	3.14e+006
	Manual Modification	No
	Amount:	40.8 (ng/mL)
	% Accuracy:	102.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	5.91e+006
	Manual Modification	No
	Amount:	47.2 (ng/mL)
	% Accuracy:	118.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	13.2
	Area Counts:	1.73e+007
	Manual Modification	No
	Amount:	51.5 (ng/mL)
	% Accuracy:	129.00

Before Jan 4/9/10

Sample: 791310001457057 Sample ID: 791310001457057 File: E:\791310001457057.mf

Name: 24-dimethylsilane Number: 1182.046.0 Unit: g/ml

Int: 1.0000000000000000 Annotation: --

Index: 1

Type: GC

Unit: ng/ml

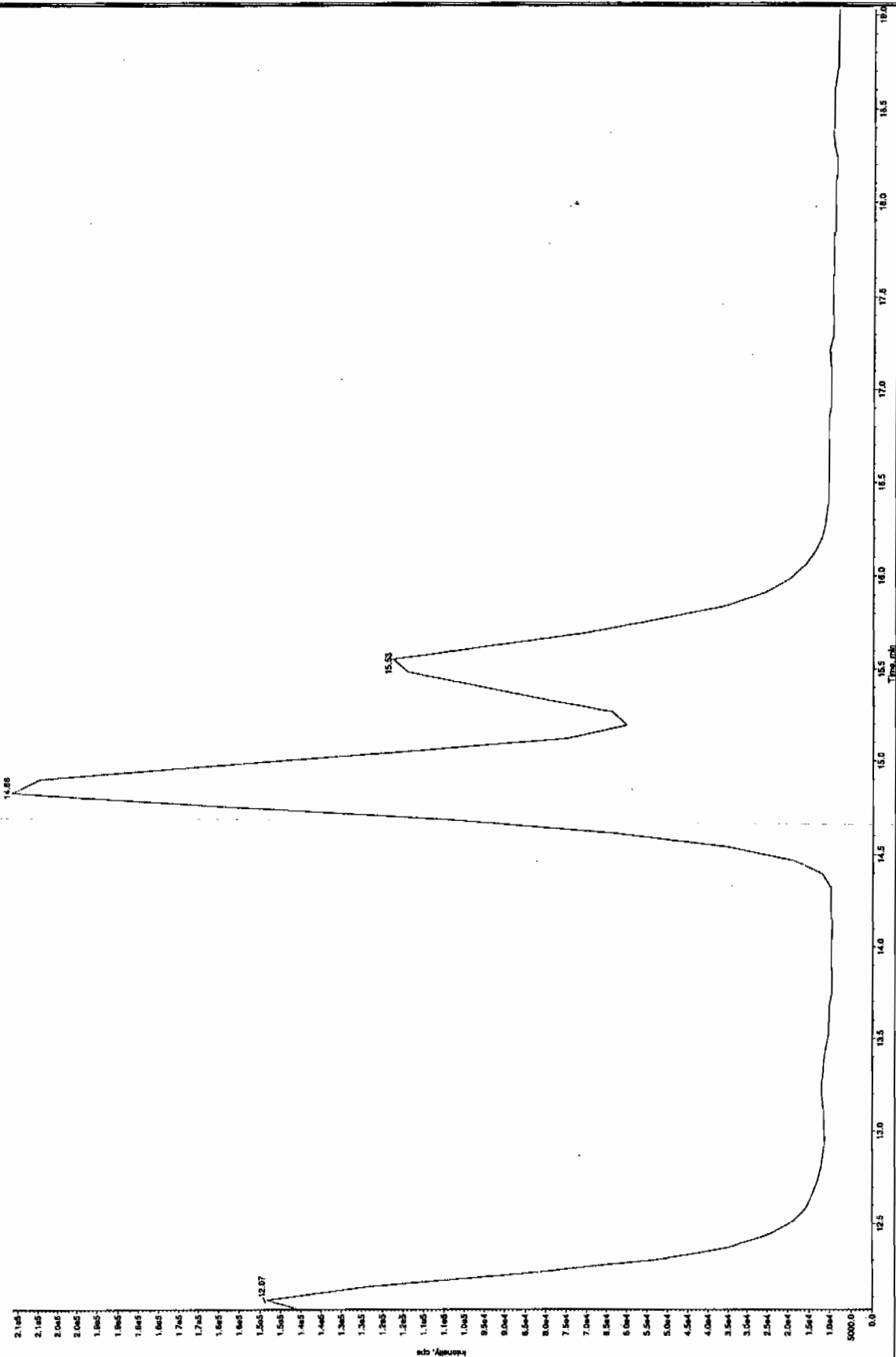
Int: 0.00

Int: 4/1/2010

Int: 6128128 Hz

Int: 0.1

Int: No



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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401012.wiff	Acquisition Date	4/1/2010 4:28:28 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.8
	Area Counts:	1.77e+005
	Manual Modification	No
	Amount:	43.0 (ng/mL)
	% Accuracy:	107.00

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	12.1
	Area Counts:	3.11e+006
	Manual Modification	No
	Amount:	21.4 (ng/mL)
	% Accuracy:	107.00

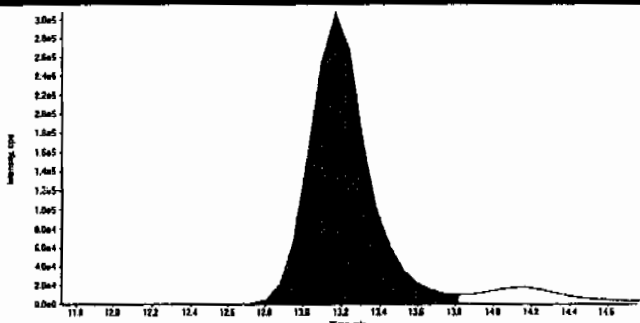
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	14.8
	Area Counts:	4.78e+006
	Manual Modification	No
	Amount:	43.9 (ng/mL)
	% Accuracy:	110.00

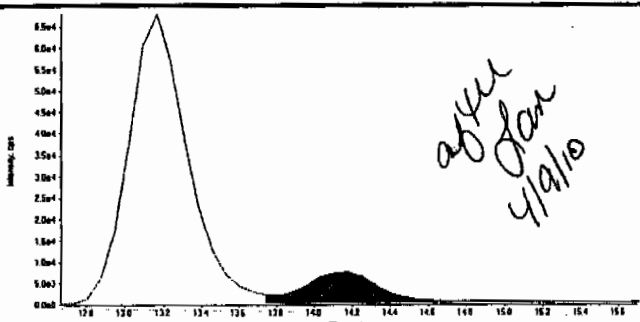
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	15.5
	Area Counts:	3.03e+006
	Manual Modification	Yes
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

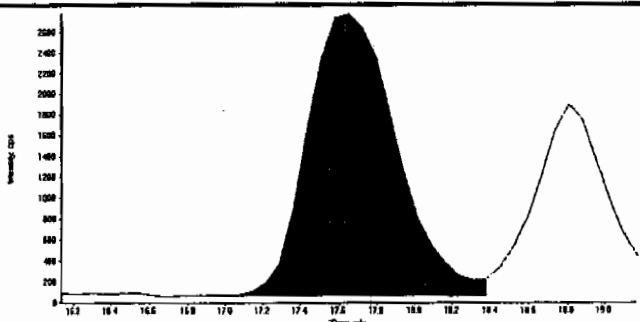
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

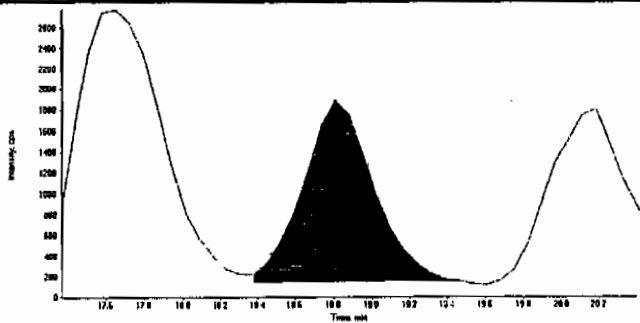
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401012.wiff	Acquisition Date	4/1/2010 4:28:28 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

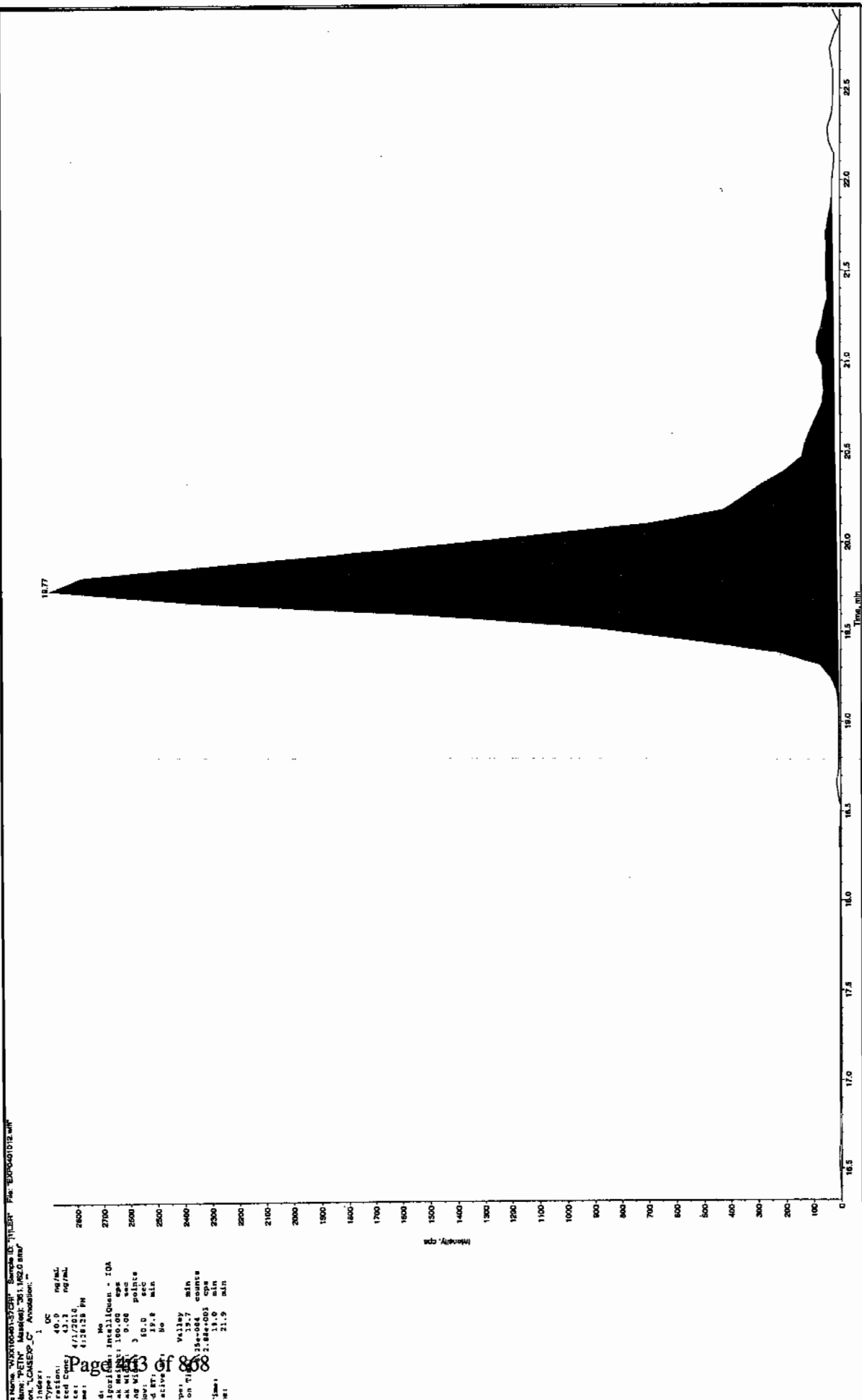
	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	13.2
	Area Counts:	6.50e+006
	Manual Modification	No
	Amount:	44.7 (ng/mL)
	% Accuracy:	112.00

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	14.2
	Area Counts:	2.15e+005
	Manual Modification	Yes
	Amount:	40.3 (ng/mL)
	% Accuracy:	101.00

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	17.7
	Area Counts:	8.94e+004
	Manual Modification	No
	Amount:	42.1 (ng/mL)
	% Accuracy:	105.00

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	18.8
	Area Counts:	4.52e+004
	Manual Modification	No
	Amount:	42.8 (ng/mL)
	% Accuracy:	107.00

Before Jan 4/10/10



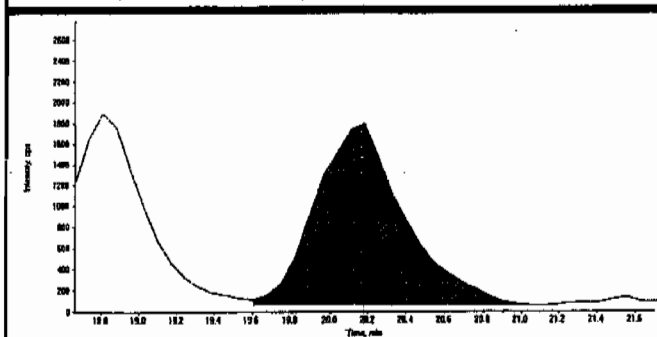
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 on: "CASED" C: Annotation: "

Index: 1
 Type: GC
 Retention: 43.2
 Intensity: 43.2
 Date: 4/1/2010
 Time: 6:28:28 PM
 No. of Peaks: 1
 Integration: 100.00
 at Retention: 18.77
 at Intensity: 2600
 at Width: 3.00 points
 at Height: 10.0
 at Area: 19.8 min
 at RT: 19.8 min
 at Time: 19.8 min
 at Valley: 19.8 min
 on Time: 19.8 min
 counts: 2600
 Time: 19.8 min
 Time: 19.8 min
 Time: 19.8 min
 Time: 19.8 min

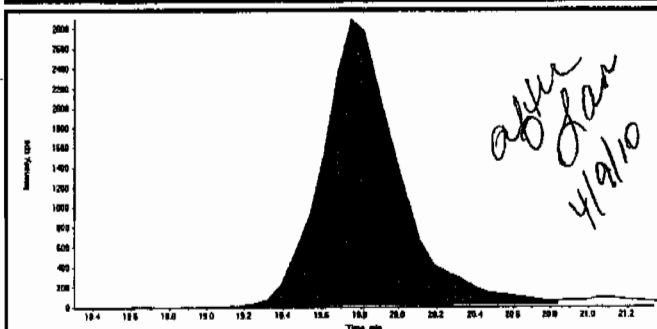
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401012.wiff	Acquisition Date	4/1/2010 4:28:28 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.2
Actual RT:	20.2
Area Counts:	5.61e+004
Manual Modification	No
Amount:	45.0 (ng/mL)
% Accuracy:	113.00



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	19.8
Actual RT:	19.8
Area Counts:	8.05e+004
Manual Modification	Yes
Amount:	42.2 (ng/mL)
% Accuracy:	105.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 04/01/10
 Time of Injection 1628
 Standard Number WXX100401-57CRI
 Data File EXP0401012a

HMX	94.6
RDX	92.2
135-Trinitrobenzene	115.0
13-Dinitrobenzene	102.0
Tetryl	118.0
246-Trinitrotoluene	129.0
Nitrobenzene	107.0
34-dinitrotoluene	107.0
26-dinitrotoluene	110.0
24-dinitrotoluene	107.0
4-Amino-26-dinitrotoluene	112.0
2-Amino-46-dinitrotoluene	101.0
2-Nitrotoluene	105.0
4-Nitrotoluene	107.0
3-Nitrotoluene	113.0
PETN	105.0

TOTAL

1724.8

Ann 04/09/10

AVERAGE

✓ 107.8

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Lar
4/9/10

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0401023.wiff

Analysis Date: 01-APR-10 21:18

LCMSMS ID: 1182

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
Nitrobenzene	600	621	103	
PETN	600	571	95	
RDX	600	558	93	
Tetryl	600	588	98	
m-Dinitrobenzene	600	549	92	
m-Nitrotoluene	600	589	98	
o-Nitrotoluene	600	591	98	
p-Nitrotoluene	600	627	104	
1,3,5-Trinitrobenzene	600	543	91	
2,4,6-Trinitrotoluene	600	551	92	
2,4-Dinitrotoluene	600	652	109	
2,6-Dinitrotoluene	600	572	95	
2-Amino-4,6-dinitrotoluene	600	629	105	
3,4-Dinitrotoluene	300	288	96	
4-Amino-2,6-dinitrotoluene	600	626	104	
HMX	600	480	80	

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%

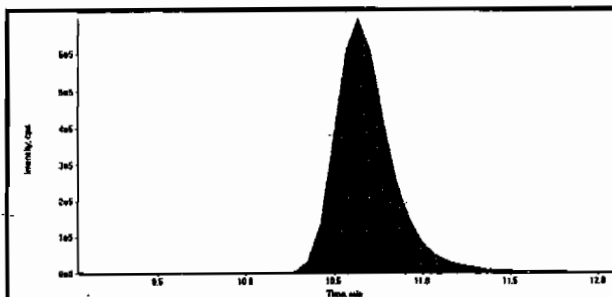
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321 A-Modified

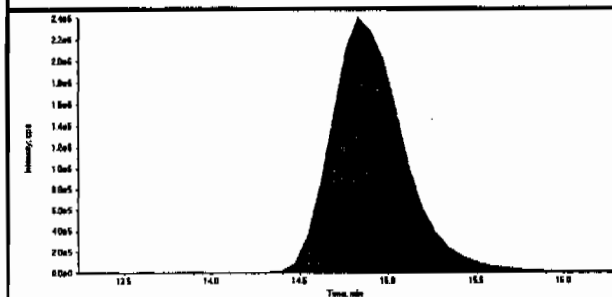
Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401023.wiff	Acquisition Date	4/1/2010 9:18:51 PM
Sample Name	WXX100401-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



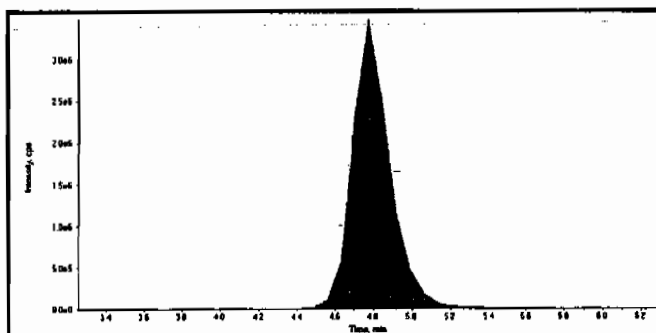
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	15200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

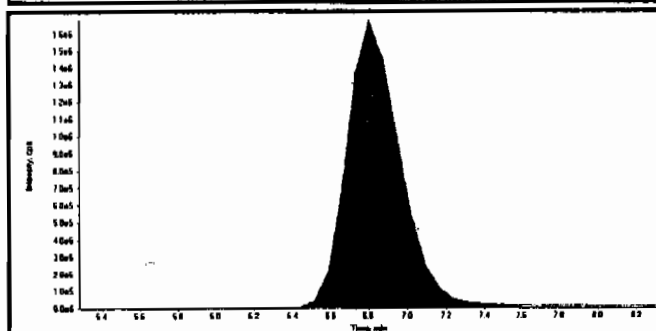


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.80
Area Counts:	69500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	4.72e+007
Manual Modification	No
Amount:	480. (ng/mL)
% Accuracy:	80.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	3.26e+007
Manual Modification	No
Amount:	558. (ng/mL)
% Accuracy:	93.10

Las 4/19/10
Amc ed 6/9/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401023.wiff	Acquisition Date	4/1/2010 9:18:51 PM
Sample Name	WXX100401-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	9.12
	Area Counts:	1.24e+008
	Manual Modification	No
	Amount:	543. (ng/mL)
	% Accuracy:	90.50

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	4.78e+007
	Manual Modification	No
	Amount:	549. (ng/mL)
	% Accuracy:	91.50

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	10.9
	Area Counts:	9.42e+007
	Manual Modification	No
	Amount:	588. (ng/mL)
	% Accuracy:	98.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	13.2
	Area Counts:	2.22e+008
	Manual Modification	No
	Amount:	551. (ng/mL)
	% Accuracy:	91.80

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401023.wiff	Acquisition Date	4/1/2010 9:18:51 PM
Sample Name	WXX100401-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	11.9
	Area Counts:	2.90e+006
	Manual Modification	No
	Amount:	621. (ng/mL)
	% Accuracy:	103.00

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.1
	Actual RT:	12.2
	Area Counts:	5.02e+007
	Manual Modification	No
	Amount:	288. (ng/mL)
	% Accuracy:	96.10

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.9
	Actual RT:	15.0
	Area Counts:	7.44e+007
	Manual Modification	No
	Amount:	572. (ng/mL)
	% Accuracy:	95.30

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.5
	Actual RT:	15.6
	Area Counts:	5.51e+007
	Manual Modification	No
	Amount:	652. (ng/mL)
	% Accuracy:	109.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401023.wiff	Acquisition Date	4/1/2010 9:18:51 PM
Sample Name	WXX100401-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	13.2
	Area Counts:	1.09e+008
	Manual Modification	No
	Amount:	626. (ng/mL)
	% Accuracy:	104.00

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	14.3
	Area Counts:	4.01e+006
	Manual Modification	Yes
	Amount:	629. (ng/mL)
	% Accuracy:	105.00

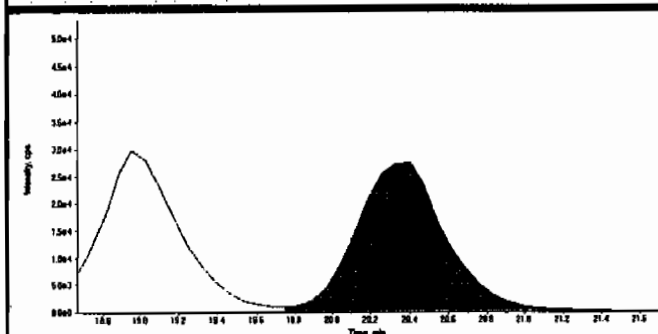
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	17.8
	Area Counts:	1.50e+006
	Manual Modification	No
	Amount:	591. (ng/mL)
	% Accuracy:	98.40

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	19.0
	Area Counts:	7.92e+005
	Manual Modification	No
	Amount:	627. (ng/mL)
	% Accuracy:	104.00

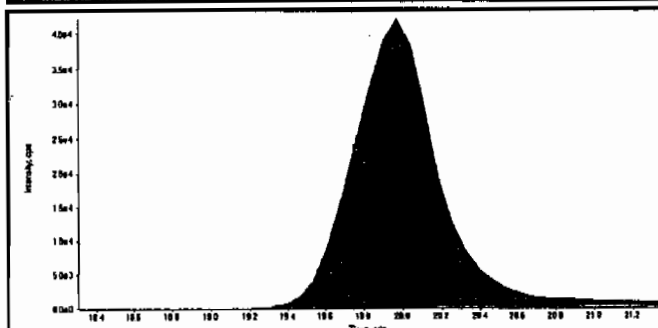
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401023.wiff	Acquisition Date	4/1/2010 9:18:51 PM
Sample Name	WXX100401-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.2
Actual RT:	20.4
Area Counts:	8.77e+005
Manual Modification	No
Amount:	589. (ng/mL)
% Accuracy:	98.10



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	19.8
Actual RT:	20.0
Area Counts:	1.30e+006
Manual Modification	No
Amount:	571. (ng/mL)
% Accuracy:	95.10

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 04/01/10
 Time of Injection 2118
 Standard Number WXX100401-56CCV
 Data File EXP0401023a

HMX	80.0
RDX	93.1
135-Trinitrobenzene	90.5
13-Dinitrobenzene	91.5
Tetryl	98.0
246-Trinitrotoluene	91.8
Nitrobenzene	103.0
34-dinitrotoluene	96.1
26-dinitrotoluene	95.3
24-dinitrotoluene	109.0
4-Amino-26-dinitrotoluene	104.0
2-Amino-46-dinitrotoluene	105.0
2-Nitrotoluene	98.4
4-Nitrotoluene	104.0
3-Nitrotoluene	98.1
PETN	95.1

TOTAL

✓
1552.9

mm 04/09/10

AVERAGE

✓ 97.1

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Las
4/9/10*

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0401025.wiff

Analysis Date: 01-APR-10 22:11

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	46.9	117	
2,4,6-Trinitrotoluene	40	47.6	119	
2,4-Dinitrotoluene	40	44.4	111	
2,6-Dinitrotoluene	40	45.4	113	
2-Amino-4,6-dinitrotoluene	40	40.5	101	
3,4-Dinitrotoluene	20	20.9	105	
4-Amino-2,6-dinitrotoluene	40	47.2	118	
HMX	40	46.2	116	
Nitrobenzene	40	42	105	
PETN	40	42.9	107	
RDX	40	47.7	119	
Tetryl	40	51.9	130	
m-Dinitrobenzene	40	40.6	101	
m-Nitrotoluene	40	46.2	115	
o-Nitrotoluene	40	46.2	116	
p-Nitrotoluene	40	49.2	123	

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%

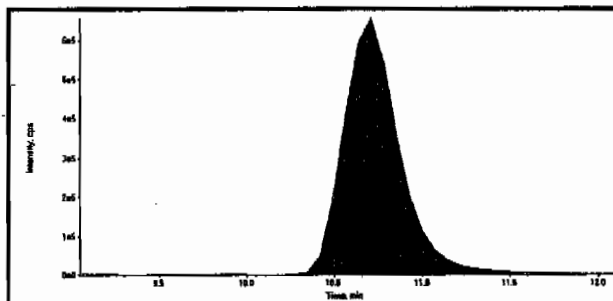
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

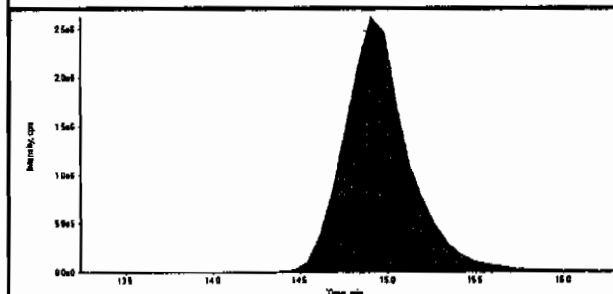
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

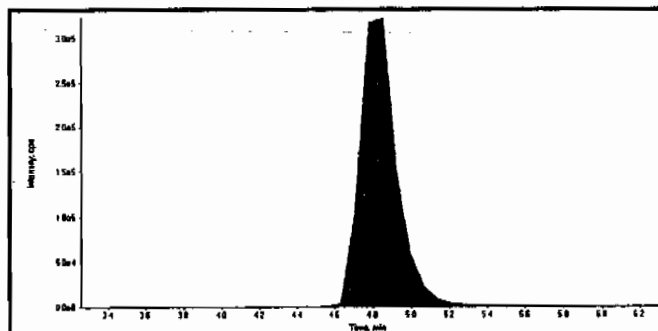
Data File	EXP0401025.wiff	Acquisition Date	4/1/2010 10:11:39 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



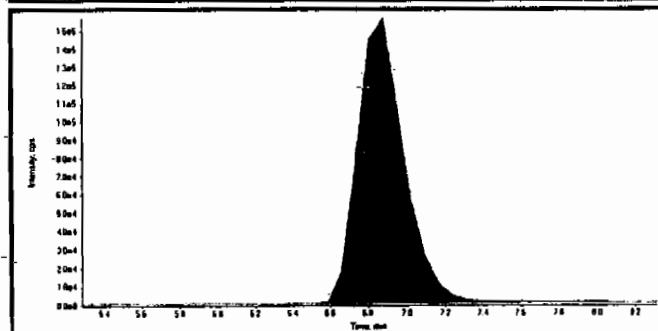
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.70
Area Counts:	14400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.80
Actual RT:	14.90
Area Counts:	65700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.85
Area Counts:	4.32e+006
Manual Modification	No
Amount:	46.2 (ng/mL)
% Accuracy:	116.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.87
Area Counts:	2.65e+006
Manual Modification	No
Amount:	47.7 (ng/mL)
% Accuracy:	119.00

OK 4/19/10 *thm 4/19/10*

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

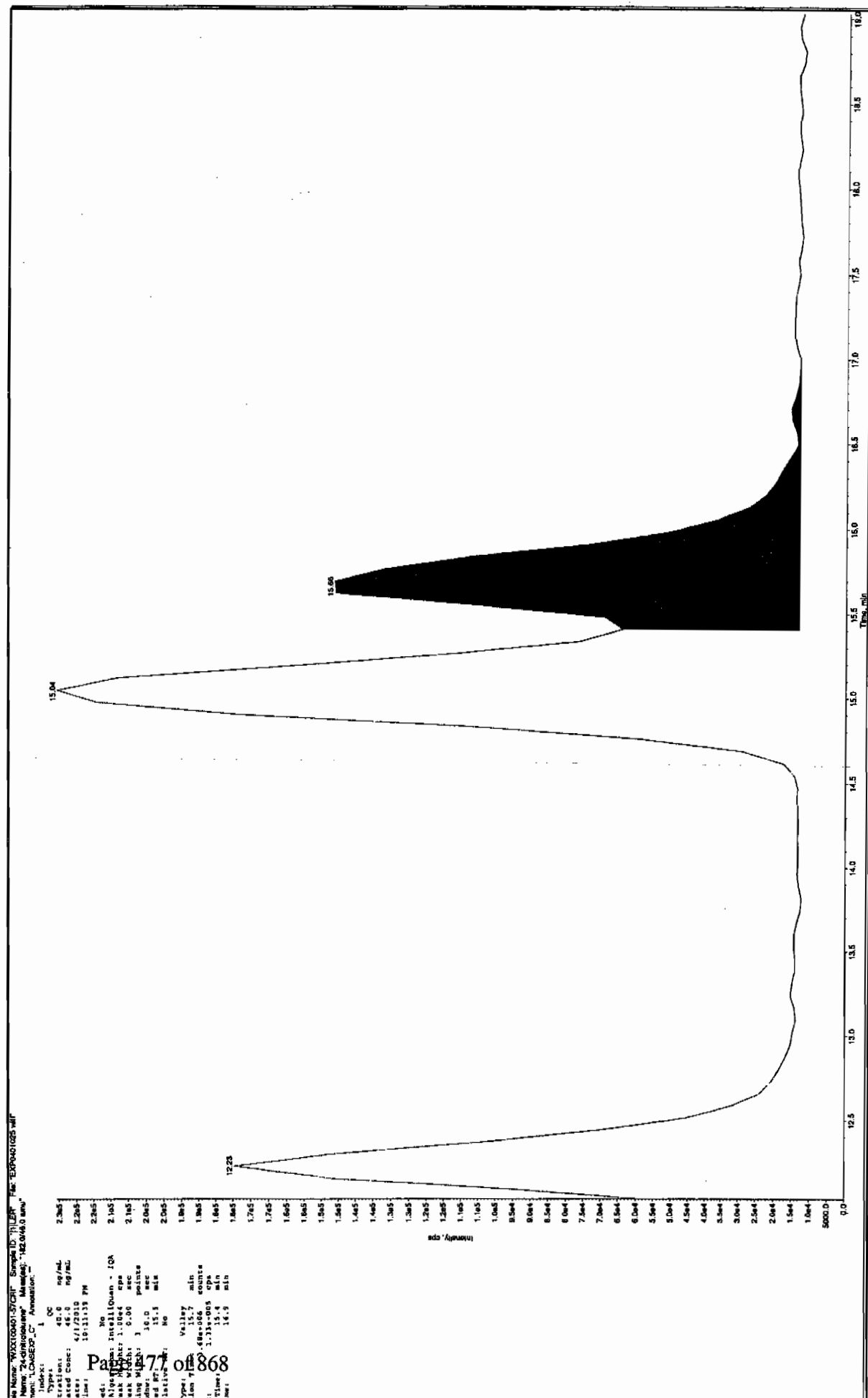
Data File	EXP0401025.wiff	Acquisition Date	4/1/2010 10:11:39 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.04
	Actual RT:	9.12
	Area Counts:	1.02e+007
	Manual Modification	No
	Amount:	46.9 (ng/mL)
	% Accuracy:	117.00

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	3.36e+006
	Manual Modification	No
	Amount:	40.6 (ng/mL)
	% Accuracy:	101.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.8
	Actual RT:	10.9
	Area Counts:	7.15e+006
	Manual Modification	No
	Amount:	51.9 (ng/mL)
	% Accuracy:	130.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.2
	Actual RT:	13.3
	Area Counts:	1.81e+007
	Manual Modification	No
	Amount:	47.6 (ng/mL)
	% Accuracy:	119.00

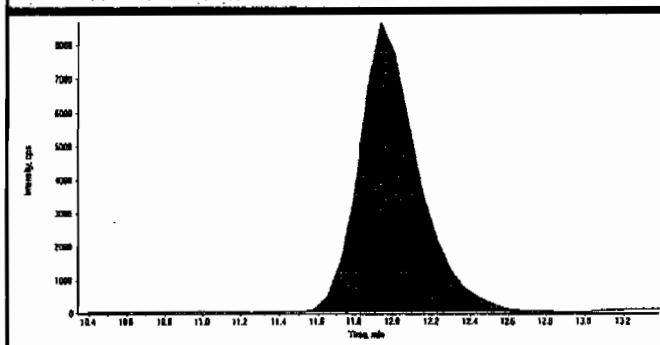


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#3

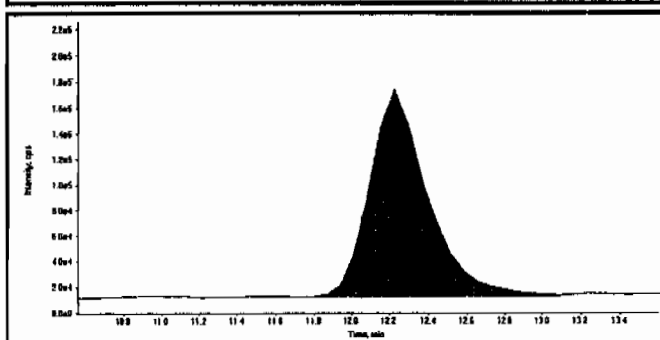
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

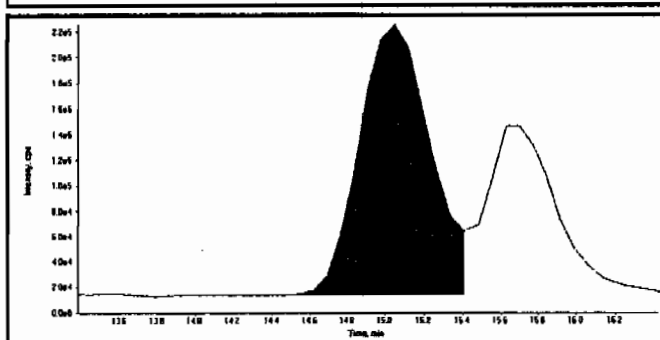
Data File	EXP0401025.wiff	Acquisition Date	4/1/2010 10:11:39 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



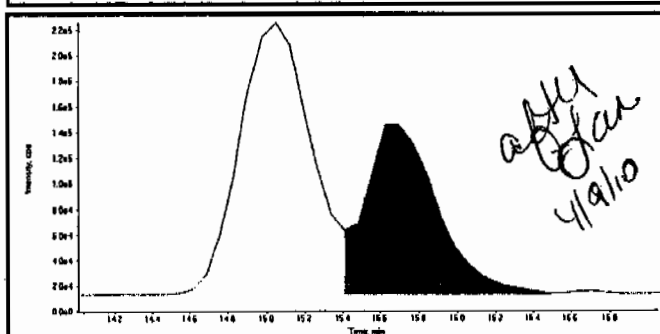
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	11.9
Area Counts:	1.87e+005
Manual Modification	No
Amount:	42.0 (ng/mL)
% Accuracy:	105.00



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.1
Actual RT:	12.2
Area Counts:	3.44e+006
Manual Modification	No
Amount:	20.9 (ng/mL)
% Accuracy:	105.00



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.9
Actual RT:	15.0
Area Counts:	5.59e+006
Manual Modification	No
Amount:	45.4 (ng/mL)
% Accuracy:	113.00



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.5
Actual RT:	15.7
Area Counts:	3.54e+006
Manual Modification	Yes
Amount:	44.4 (ng/mL)
% Accuracy:	111.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401025.wiff	Acquisition Date	4/1/2010 10:11:39 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.2
	Actual RT:	13.3
	Area Counts:	7.77e+006
	Manual Modification	No
	Amount:	47.2 (ng/mL)
	% Accuracy:	118.00

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.2
	Actual RT:	14.4
	Area Counts:	2.44e+005
	Manual Modification	Yes
	Amount:	40.5 (ng/mL)
	% Accuracy:	101.00

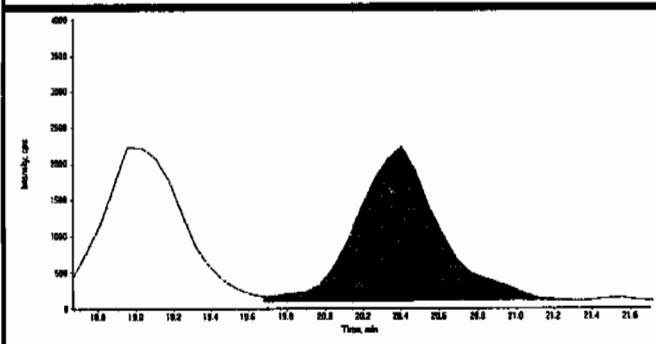
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.7
	Actual RT:	17.8
	Area Counts:	1.11e+005
	Manual Modification	No
	Amount:	46.2 (ng/mL)
	% Accuracy:	116.00

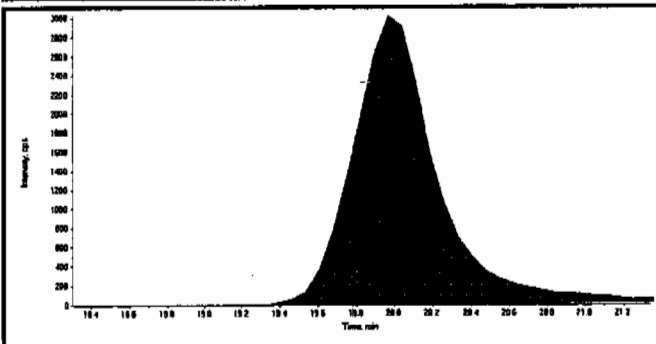
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.9
	Actual RT:	19.0
	Area Counts:	5.87e+004
	Manual Modification	No
	Amount:	49.2 (ng/mL)
	% Accuracy:	123.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 09/04/2010 9:18:00 AM
LCMSMS#3

Data File	EXP0401025.wiff	Acquisition Date	4/1/2010 10:11:39 PM
Sample Name	WXX100401-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	040110.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.2
	Actual RT:	20.4
	Area Counts:	6.50e+004
	Manual Modification	No
	Amount:	46.2 (ng/mL)
	% Accuracy:	115.00

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.8
	Actual RT:	20.0
	Area Counts:	9.25e+004
	Manual Modification	No
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 04/01/10
 Time of Injection 2211
 Standard Number WXX100401-57CRI
 Data File EXP0401025a

HMX	116.0
RDX	119.0
135-Trinitrobenzene	117.0
13-Dinitrobenzene	101.0
Tetryl	130.0
246-Trinitrotoluene	119.0
Nitrobenzene	105.0
34-dinitrotoluene	105.0
26-dinitrotoluene	113.0
24-dinitrotoluene	111.0
4-Amino-26-dinitrotoluene	118.0
2-Amino-46-dinitrotoluene	101.0
2-Nitrotoluene	116.0
4-Nitrotoluene	123.0
3-Nitrotoluene	115.0
PETN	107.0

TOTAL 1816.0

AVERAGE 113.5

Sum 04/09/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Lat 4/1/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100013.wiff

Analysis Date: 10-MAR-10 18:39

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	103	103	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	48.5	97	
3,5-Dinitroaniline	100	87.1	87	
TATB	100	91.8	92	
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

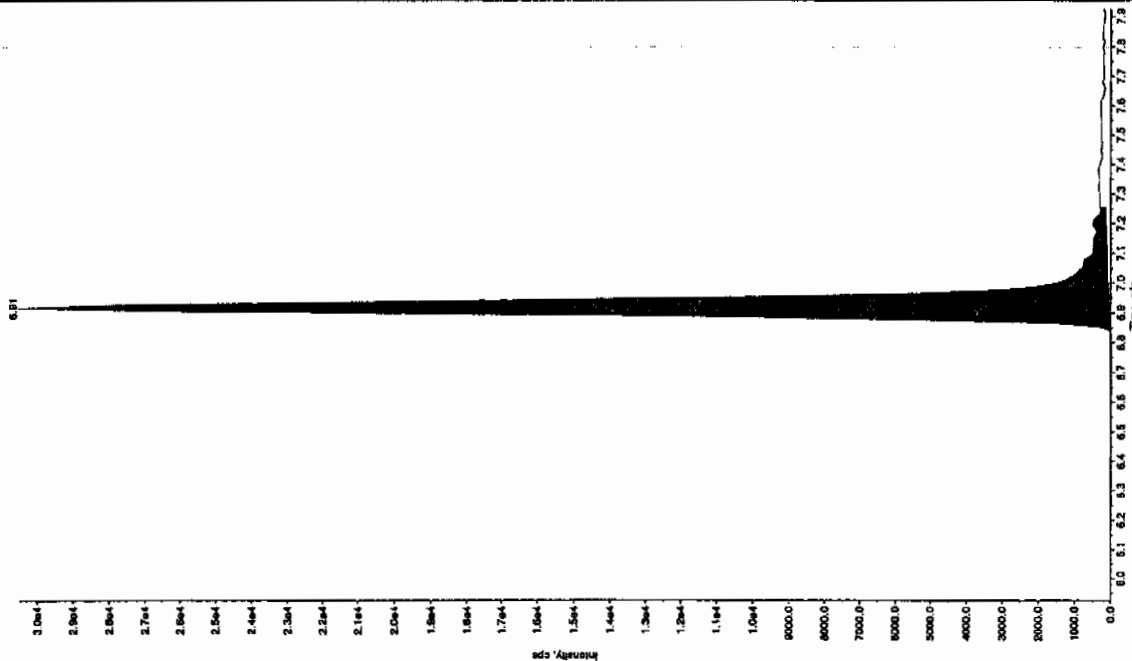
LCR 3/13/10

Sample Name: "WXX100310-2701" Sample ID: "111111" File: "EXS03100013.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 87.1 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:39:55 PM

Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 Min. Peak Height: 2500.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Resolution: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.91 min
 Area: 1.18e+005 counts
 Height: 30457.434 cps
 Start Time: 6.83 min
 End Time: 7.25 min

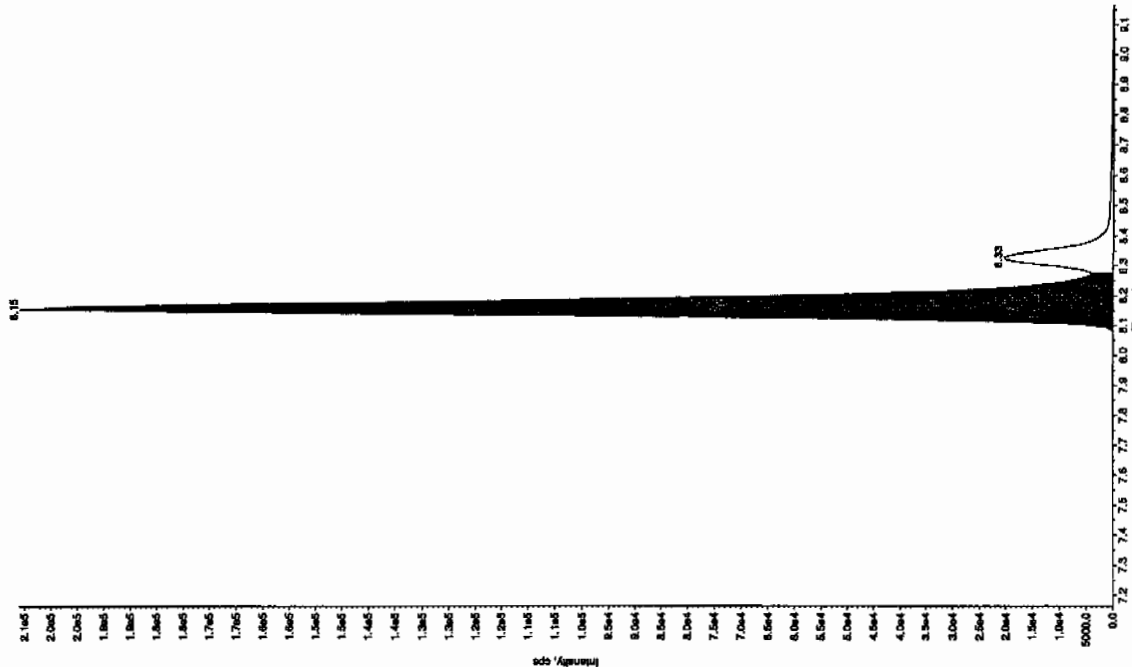


Sample Name: "WXX100310-2701" Sample ID: "111111" File: "EXS03100013.wif"
 Peak Name: "35-Dichloroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 87.1 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:39:55 PM

Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 Min. Peak Height: 2000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Resolution: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.15 min
 Area: 7.89e+005 counts
 Height: 205905.838 cps
 Start Time: 8.06 min
 End Time: 8.28 min

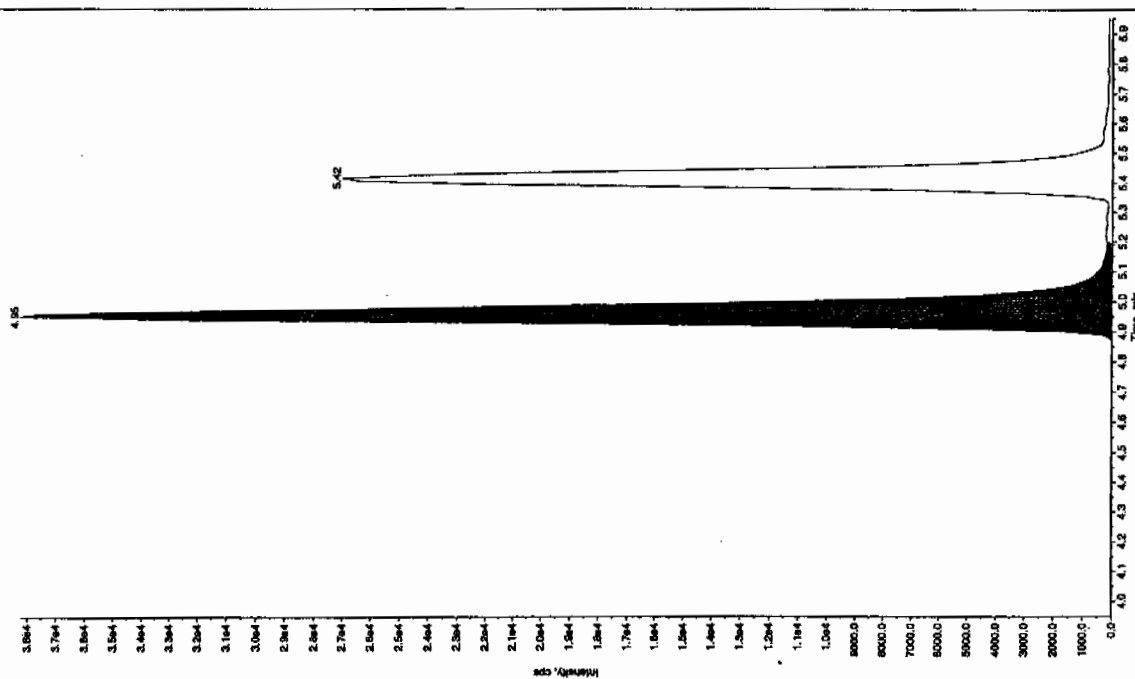
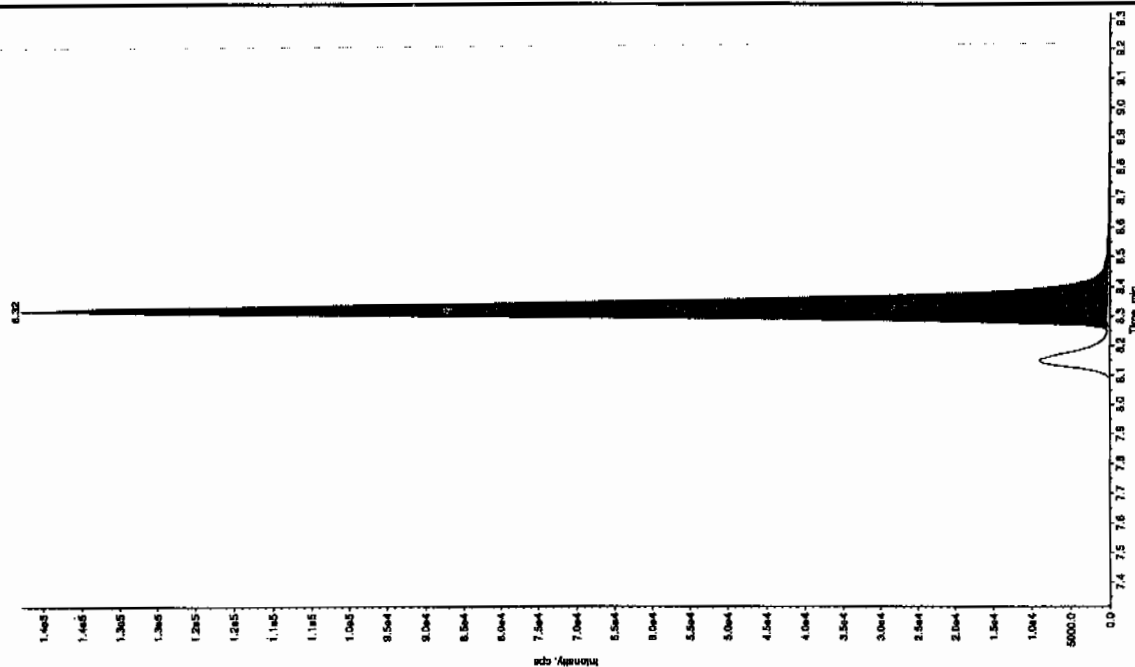


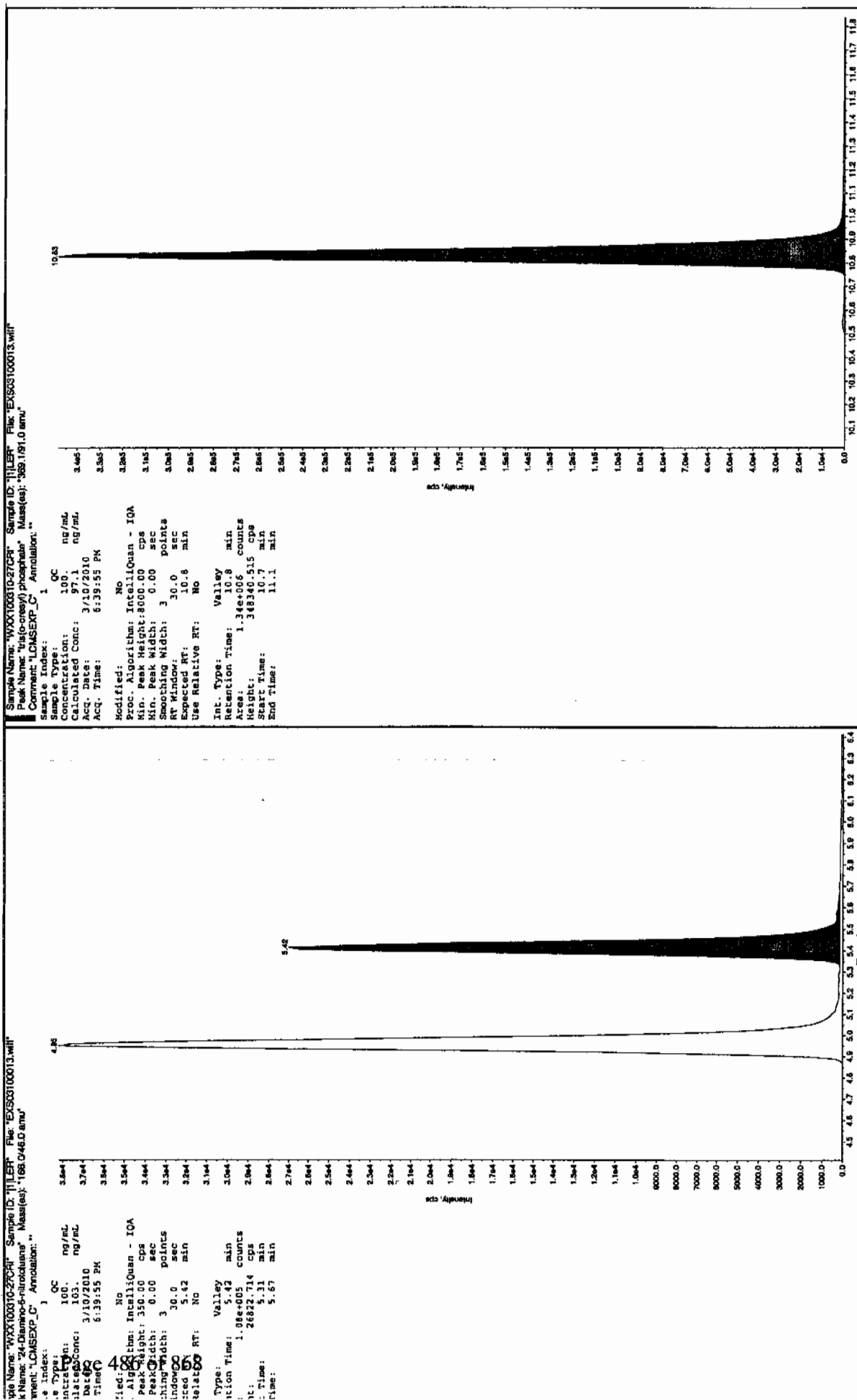
ANALYST: JH

File Name: "WYX100310-27091" Sample ID: "111ER" File: "EVS03100013.wif"
 Peak Name: "28-Diamino-4-hydroxyphenol" Mass(es): "166.046.0 amu"
 Comment: "LCMSERP_C" Annotation: ""

Sample Index: 1 QC
 Concentration: 100. ng/mL
 Calculated Conc: 103. ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:39:55 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 AT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.95 min
 Area: 1.58e+05 counts
 Height: 3813716 cps
 Start Time: 4.82 min
 End Time: 5.20 min

Sample Index: 1 QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 46.3 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 6:39:55 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 AT Window: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.32 min
 Area: 5.21e+05 counts
 Height: 142593.994 cps
 Start Time: 8.25 min
 End Time: 8.61 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100024.wiff

Analysis Date: 10-MAR-10 21:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	519	104	
2,6-Diamino-4-nitrotoluene	500	522	104	
3,4-Dinitrotoluene	250	258	103	
3,5-Dinitroaniline	500	541	108	
TATB	500	483	97	
tris(o-cresyl) phosphate	500	480	96	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/21/0

File: "EXS03100024.wif"

Sample Name: "WXX100310-280CV" Sample ID: "TILLER"

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: 528. ng/mL

Acq. Date: 3/10/2010

Acq. Time: 9:32:36 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Valley

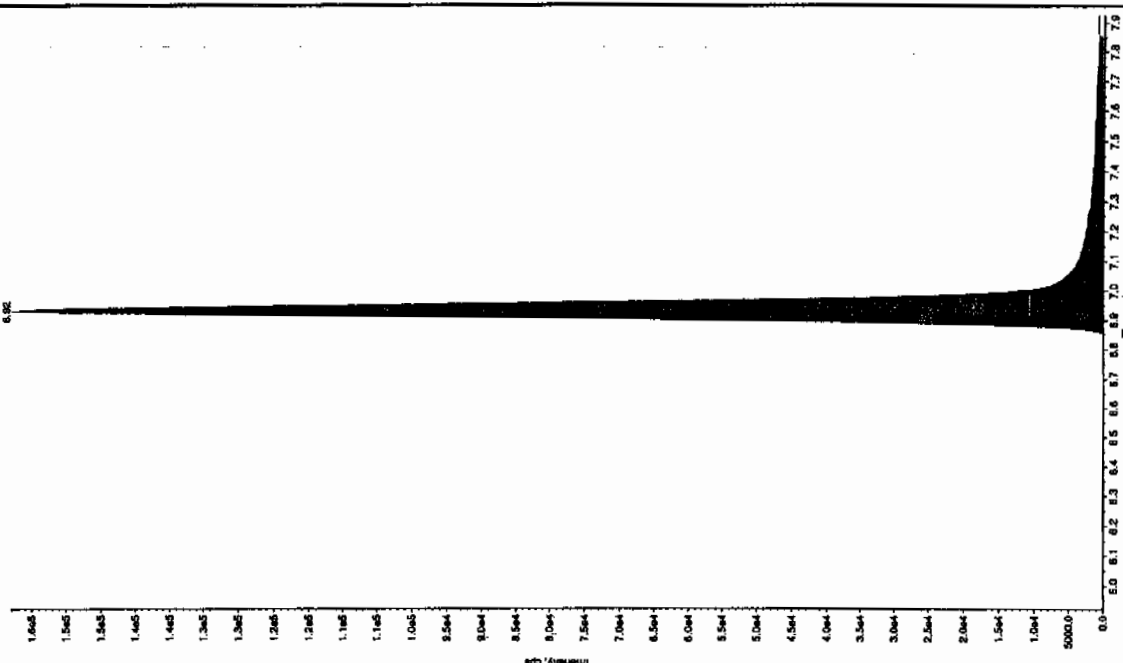
Retention Time: 8.16 min

Area: 3.72e+006 counts

Height: 972553.406 cps

Start Time: 8.09 min

End Time: 8.23 min



File: "EXS03100024.wif"

Sample Name: "WXX100310-280CV" Sample ID: "TILLER"

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: 528. ng/mL

Acq. Date: 3/10/2010

Acq. Time: 9:32:36 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.92 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 6.92 min

Area: 6.6e+005 counts

Height: 138058.670 cps

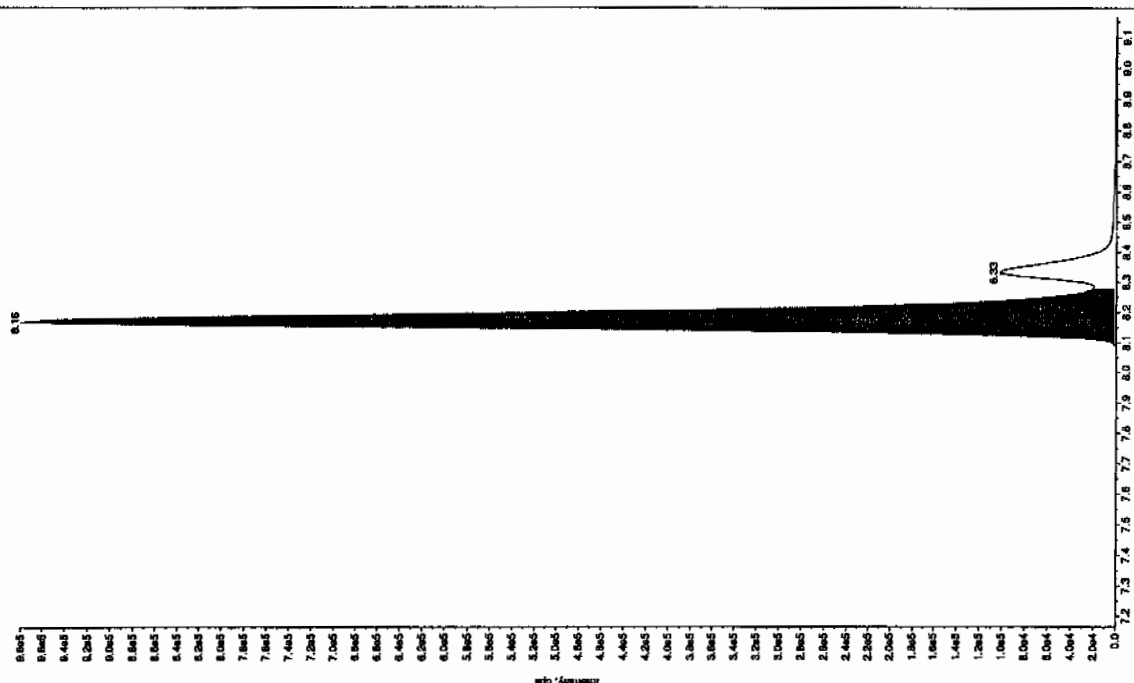
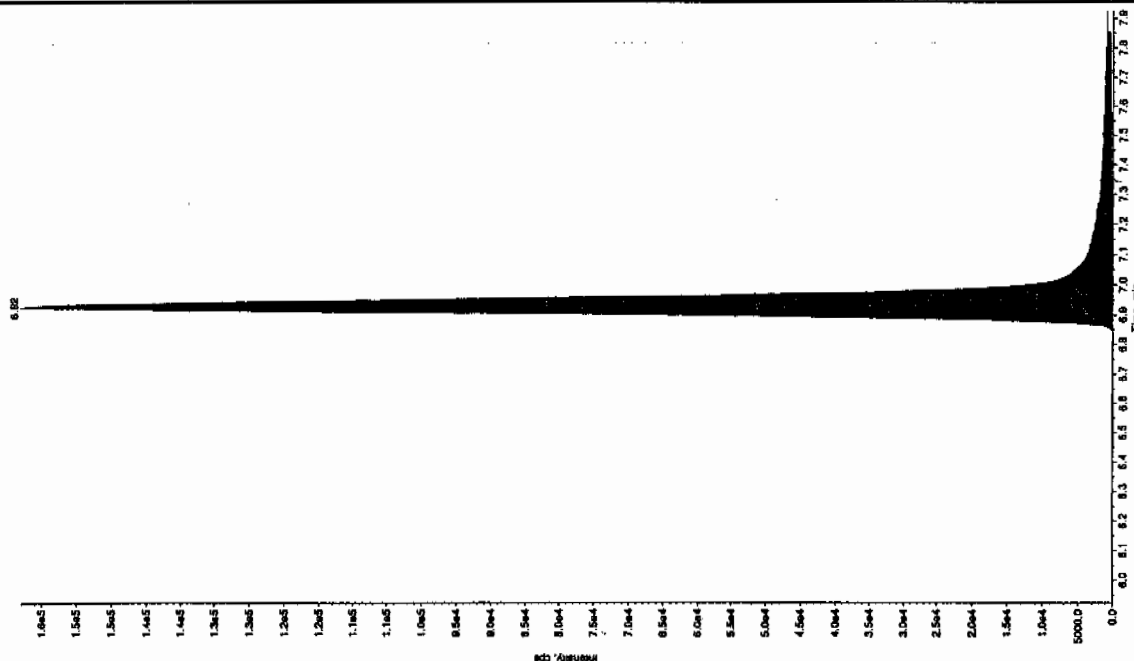
Start Time: 6.82 min

End Time: 7.05 min



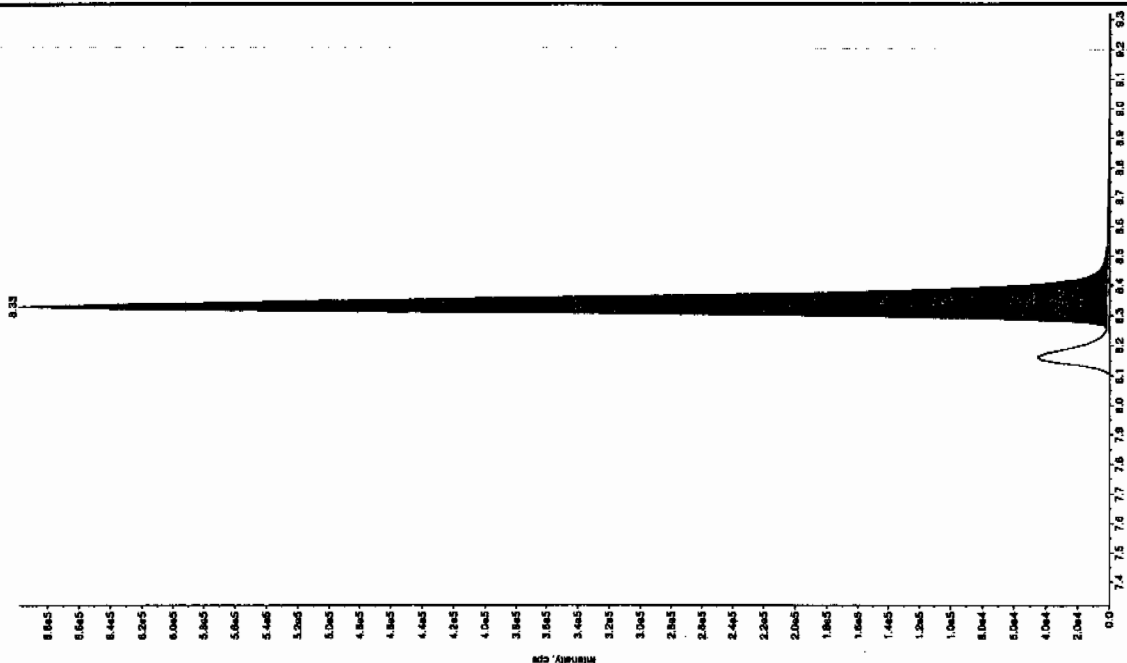
L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Ann 03/15/10



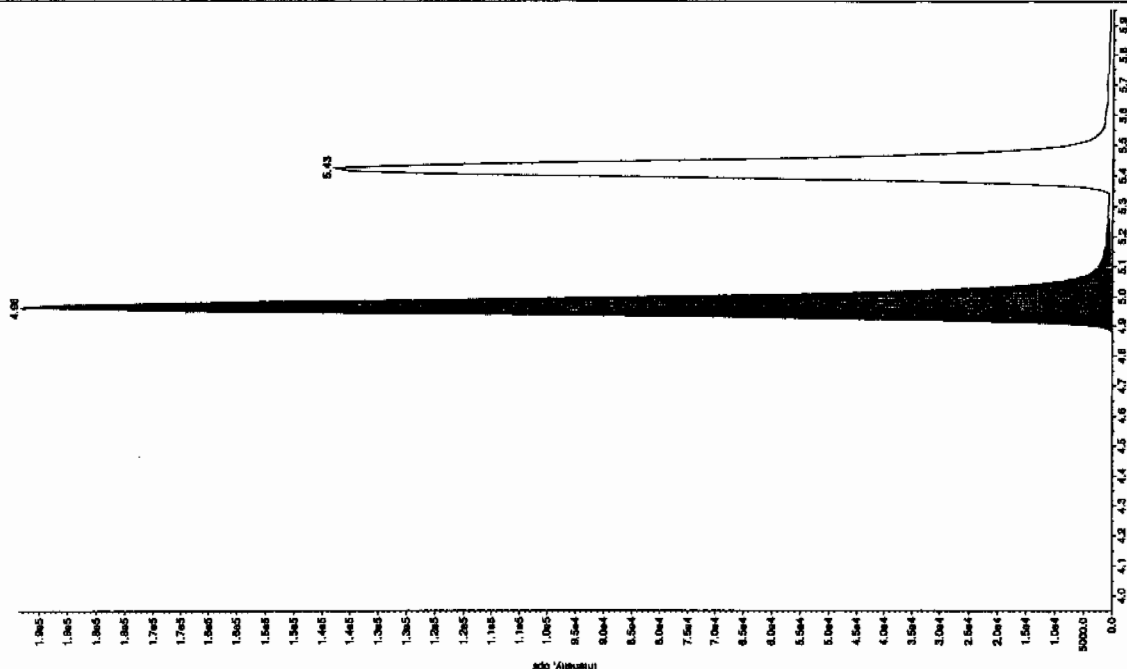
File Name: "WXX100310-250CV" Sample ID: "11LBR" File: "EXS03100024.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 250. ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 9:12:16 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: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.60e+006 counts
 Height: 695777.568 cps
 Start Time: 8.26 min
 End Time: 8.55 min



File Name: "WXX100310-250CV" Sample ID: "11LBR" File: "EXS03100024.wif"
 Peak Name: "28-Dianthyl-4-nitrofluorene" Mass(es): "166.0/166.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 522. ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 9:12:16 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: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 8.00e+005 counts
 Height: 193529.419 cps
 Start Time: 4.87 min
 End Time: 5.26 min



File Name: "WXX100310-260CV" Sample ID: "111EP" File: "EX9503100024.wif"

Peak Name: "24-Diethyl-6-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCMS-EXP_C" Annotation: "

Le Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 519. ng/mL

Acq. Date: 3/10/2010

Acq. Time: 9:32:16 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 350.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 5.42 min

Use Relative RT: No

Int. Type: Valley

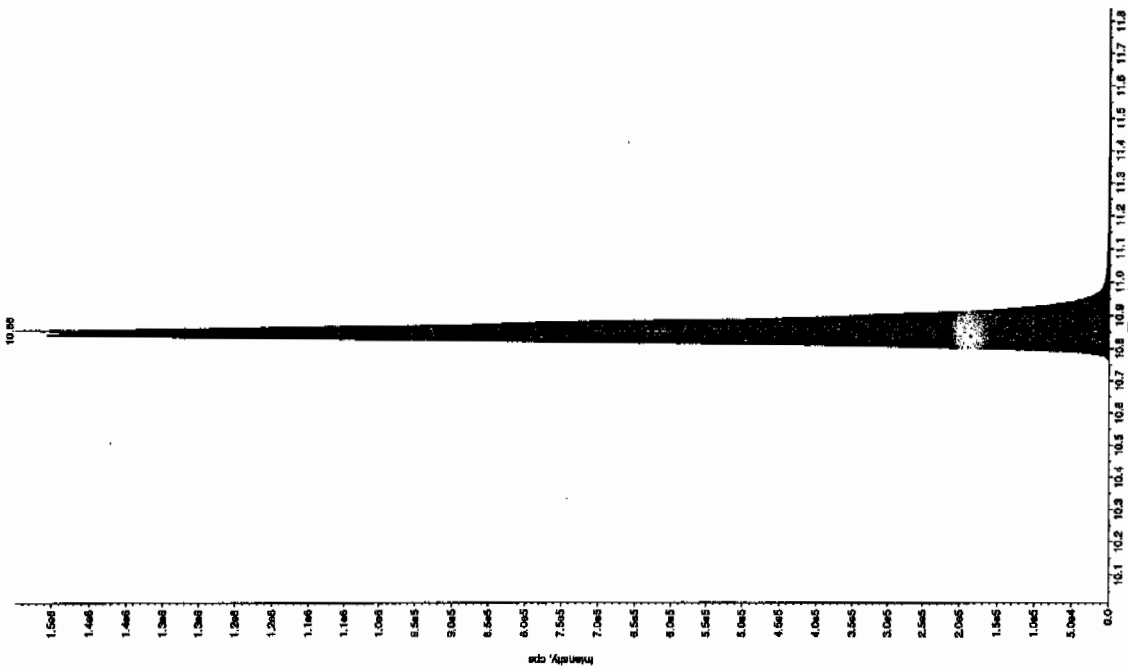
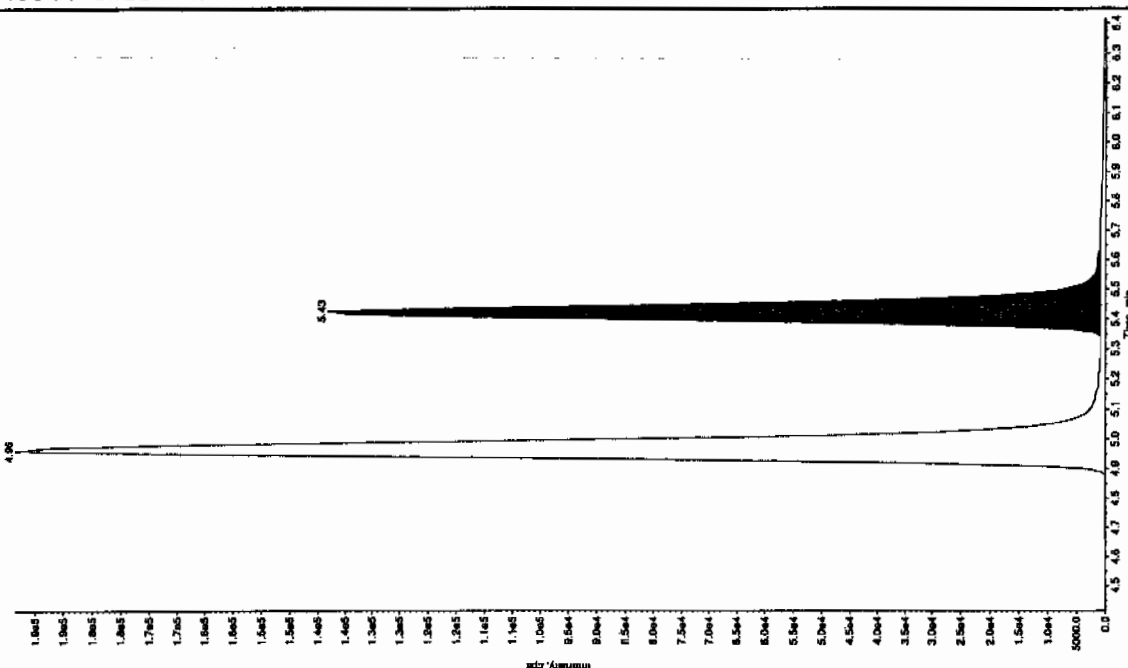
Retention Time: 5.43 min

Area: 5.49e+005 counts

Height: 137506.027 cps

Start Time: 5.32 min

End Time: 5.55 min



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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100026.wiff

Analysis Date: 10-MAR-10 22:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	88.4	88	
TATB	100	91.2	91	
tris(o-cresyl) phosphate	100	98.2	98	
2,6-Diamino-4-nitrotoluene	100	101	101	
2,4-Diamino-6-nitrotoluene	100	104	104	

Recovery Limits:

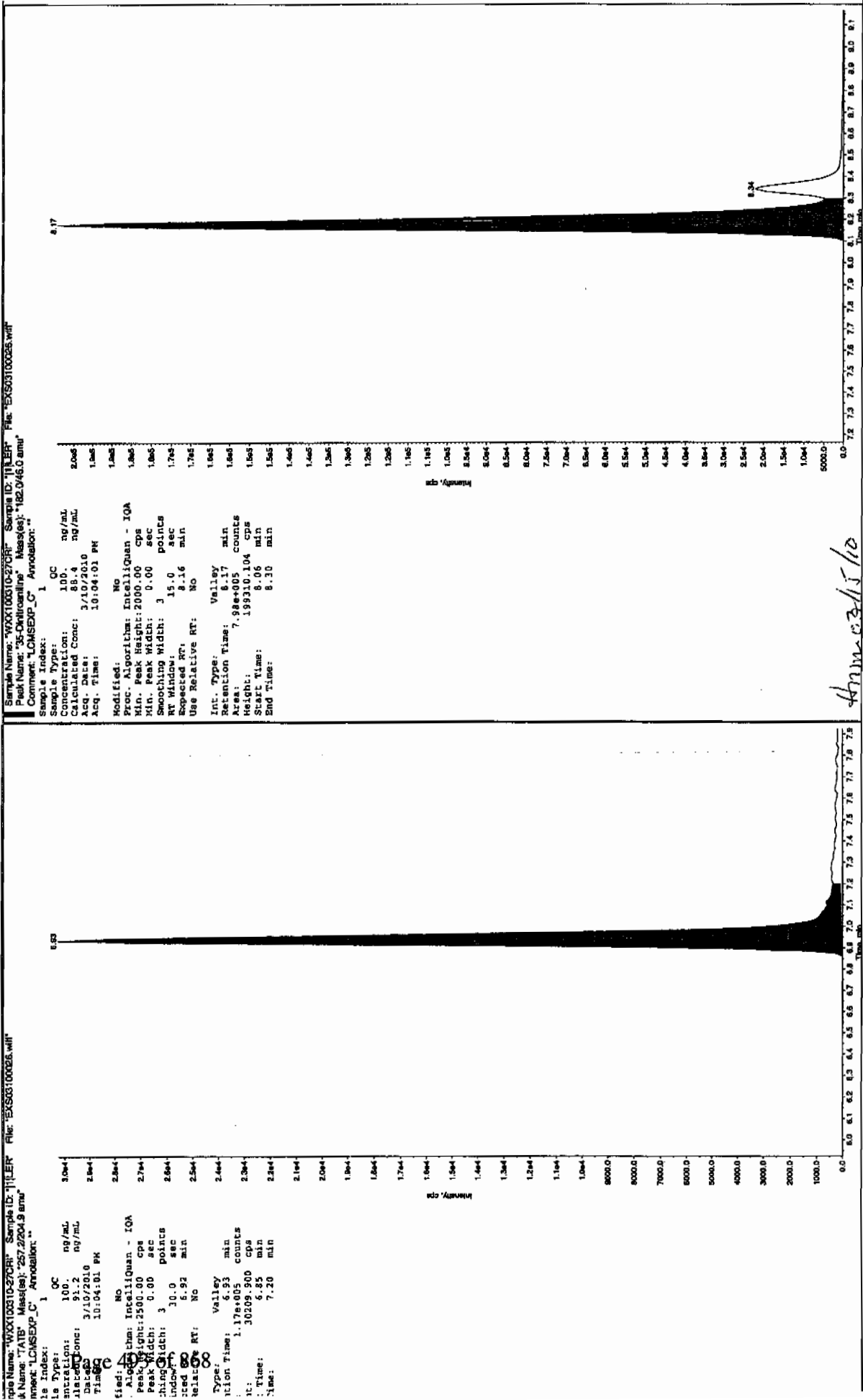
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

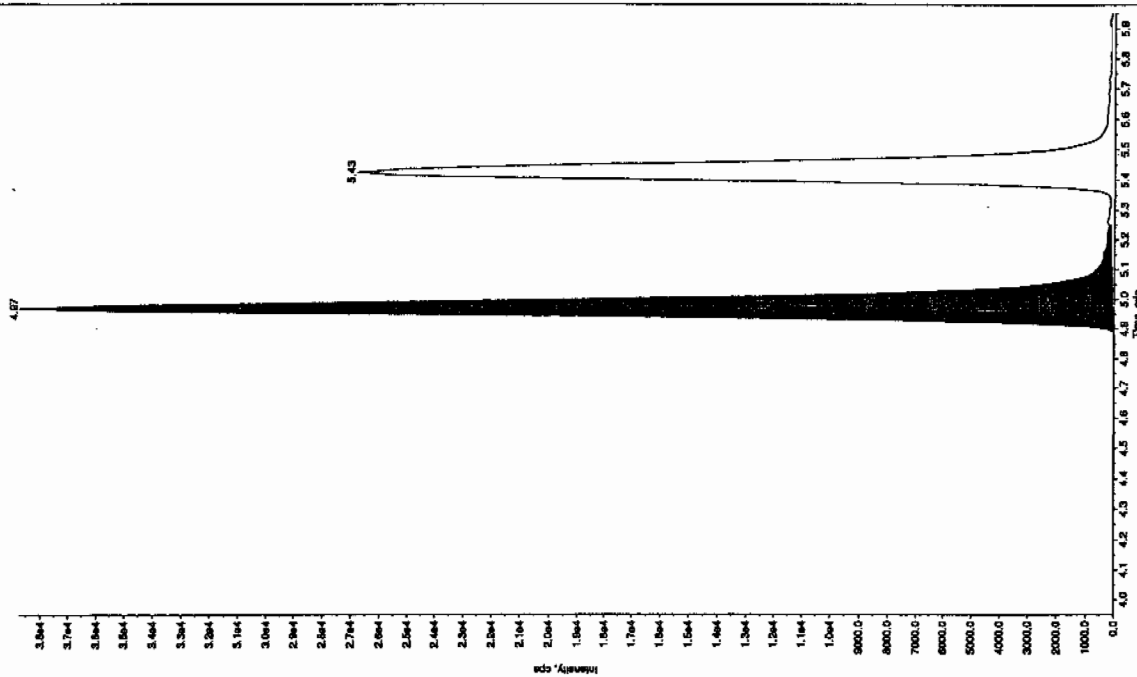
Jan 31/310



Jan 31/310

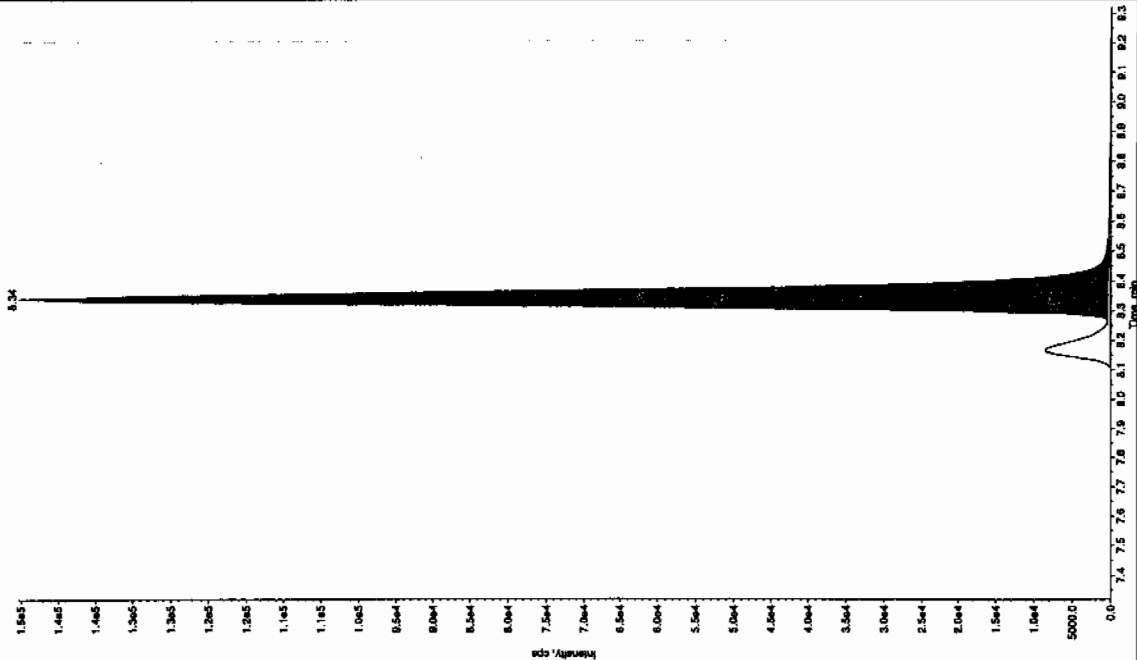
Sample Name: "WXX100310-27CR" Sample ID: "1111EP" File: "EX50310028.wif"
 Peak Name: "29-Deoxy-4-Ardoxone" Mass(es): "155.043.0 amu"
 Comment: "LCMSXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 101. ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 10:04:01 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: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.87 min
 Peak Count: 157 counts
 Height: 1.55e+005
 Start Time: 4.88 min
 End Time: 5.25 min



Sample Name: "WXX100310-27CR" Sample ID: "1111EP" File: "EX50310028.wif"
 Peak Name: "34-Deoxy-4-Ardoxone" Mass(es): "182.1751.9 amu"
 Comment: "LCMSXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 50.0 ng/mL
 Acq. Date: 3/10/2010
 Acq. Time: 10:04:01 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: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Peak Count: 612 counts
 Height: 1.44e+005
 Start Time: 8.27 min
 End Time: 8.66 min



File Name: "WXX100310-2707" Sample ID: "1111" File: "EXS03100226.wif"

Peak Name: "24-Olefinic-Enthalolene" Mass(es): "166.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 104. ng/mL

Acq. Date: 3/10/2010

Acq. Time: 10:04:01 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 350.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 5.42 min

Use Relative RT: No

Int. Type: Valley

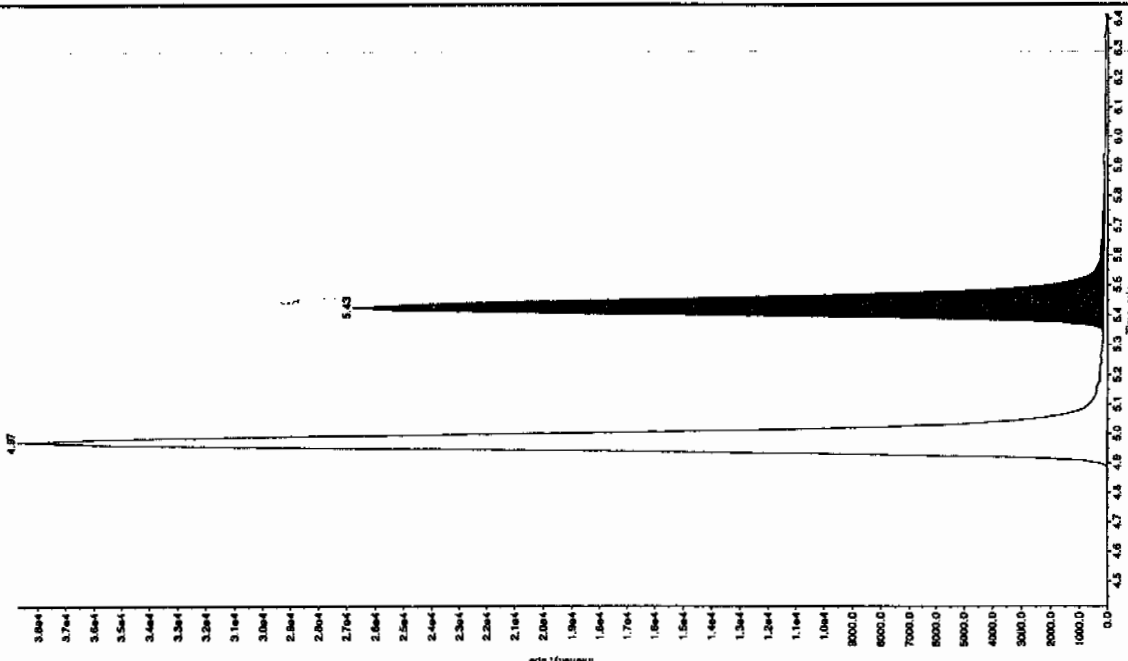
Retention Time: 5.43 min

Area: 1.10e+005 counts

Height: 26636.885 cps

Start Time: 5.32 min

End Time: 5.85 min



File Name: "WXX100310-2707" Sample ID: "1111" File: "EXS03100226.wif"

Peak Name: "tri(o-cresyl) phosphine" Mass(es): "359.191.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 98.2 ng/mL

Acq. Date: 3/10/2010

Acq. Time: 10:04:01 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 8000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 10.8 min

Use Relative RT: No

Int. Type: Valley

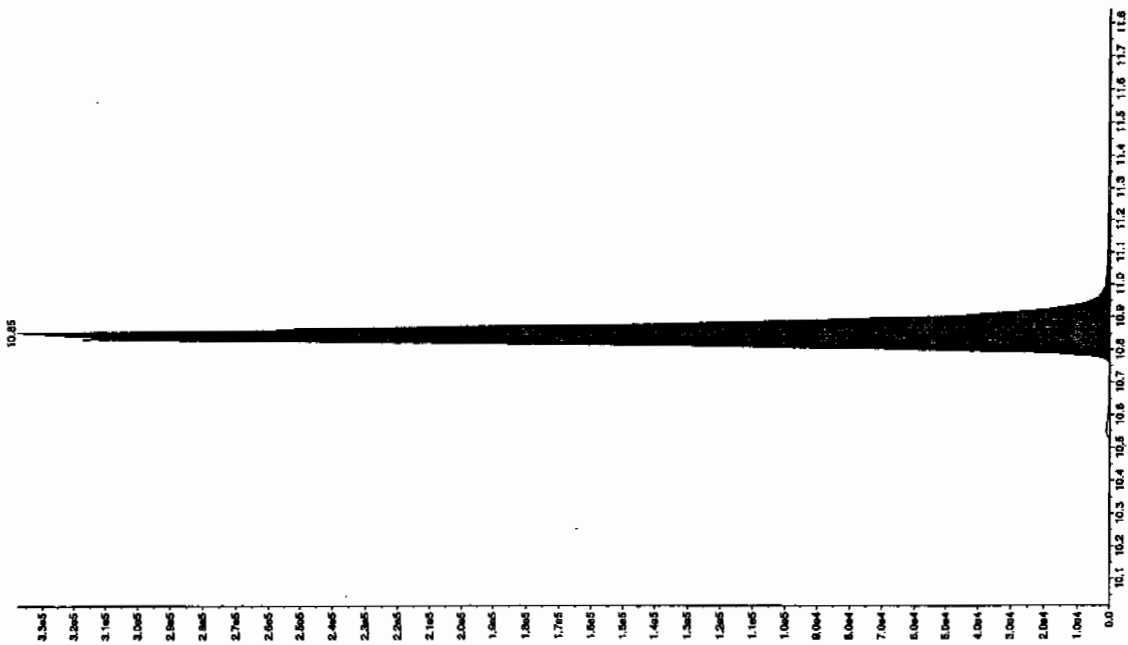
Retention Time: 10.8 min

Area: 1.36e+006 counts

Height: 337527.466 cps

Start Time: 10.7 min

End Time: 11.2 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100037.wiff

Analysis Date: 11-MAR-10 00:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	546	109	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	265	106	
3,5-Dinitroaniline	500	561	112	
TATB	500	471	94	
tris(o-cresyl) phosphate	500	478	96	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

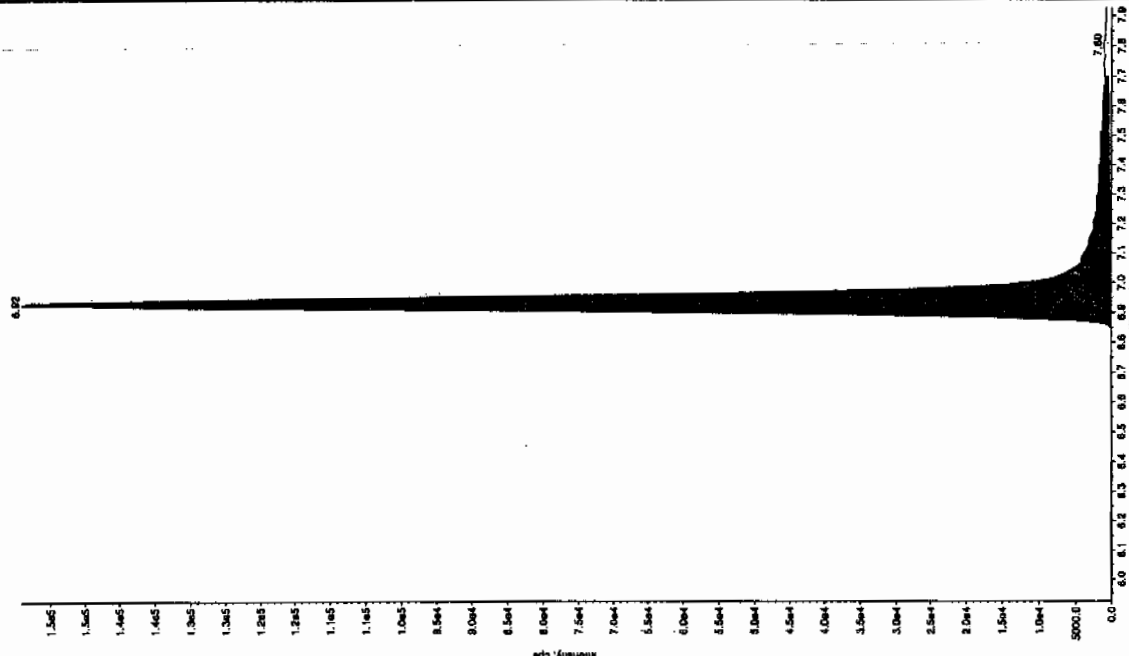
See 3/13/10

Sample Name: "WXX100310-2600V" Sample ID: "TILERY" File: "EX503100037.wif"
 Peak Name: "TAIB" Mass(es): "257.2004.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 561. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:56:47 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.92 min
 Area: 6.68e+005 counts
 Height: 154032.074 cps
 Start Time: 6.83 min
 End Time: 7.70 min

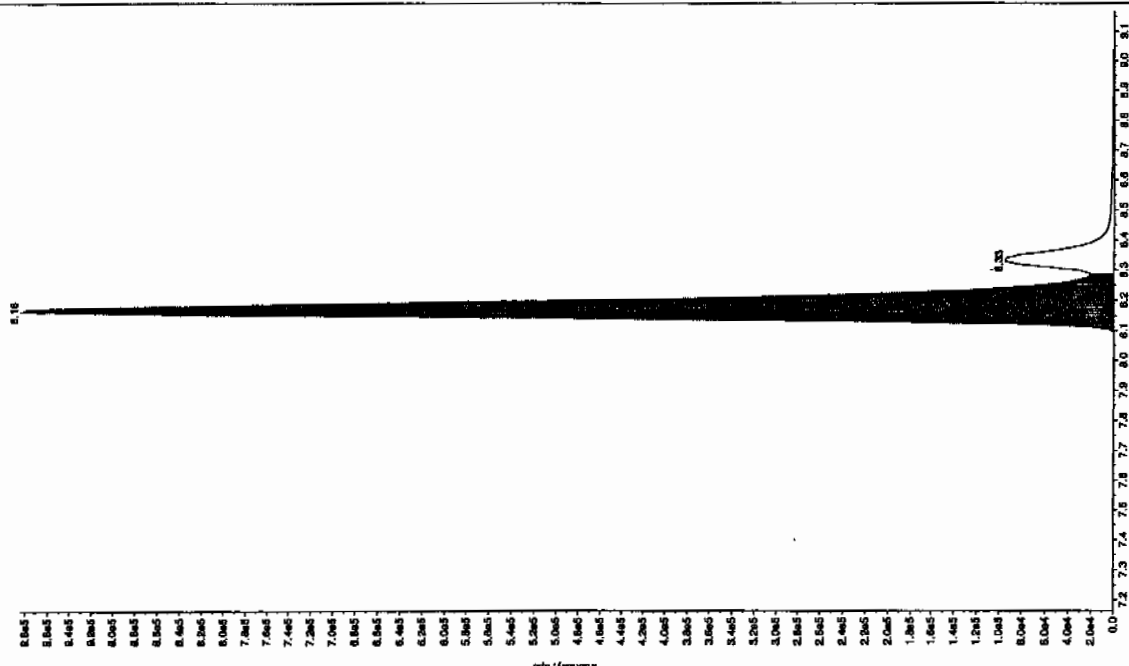


Sample Name: "WXX100310-2600V" Sample ID: "TILERY" File: "EX503100037.wif"
 Peak Name: "3S-Dinitroanthracene" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 561. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:56:47 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No

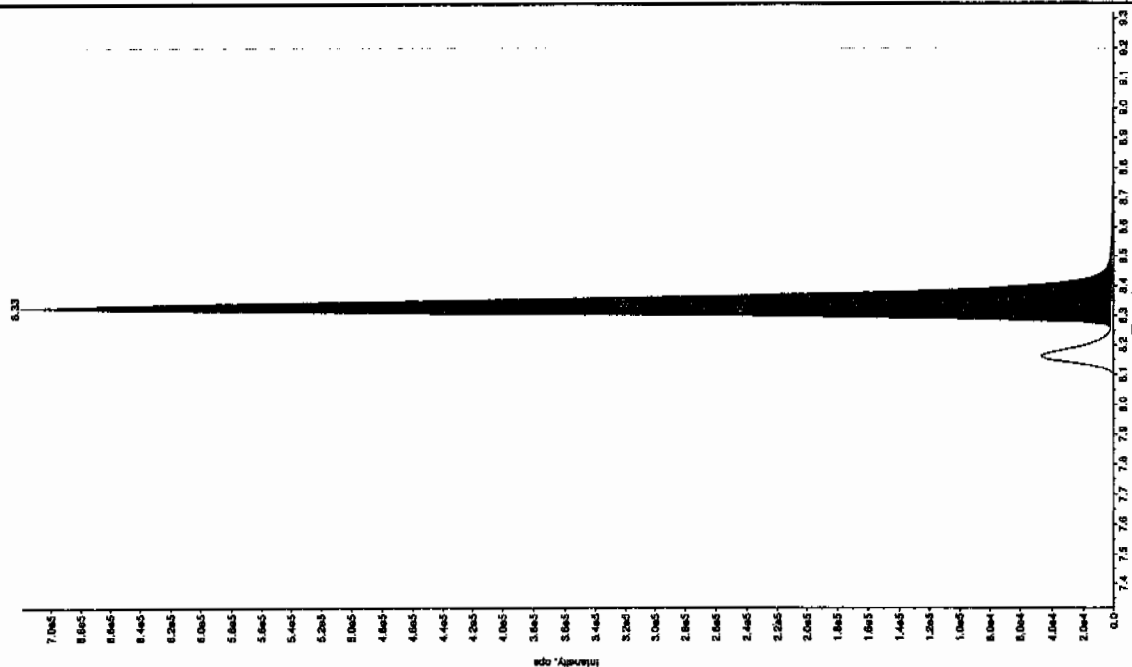
Int. Type: Valley
 Retention Time: 8.16 min
 Area: 3.94e+006 counts
 Height: 983121.094 cps
 Start Time: 8.06 min
 End Time: 8.29 min



See 3/13/10

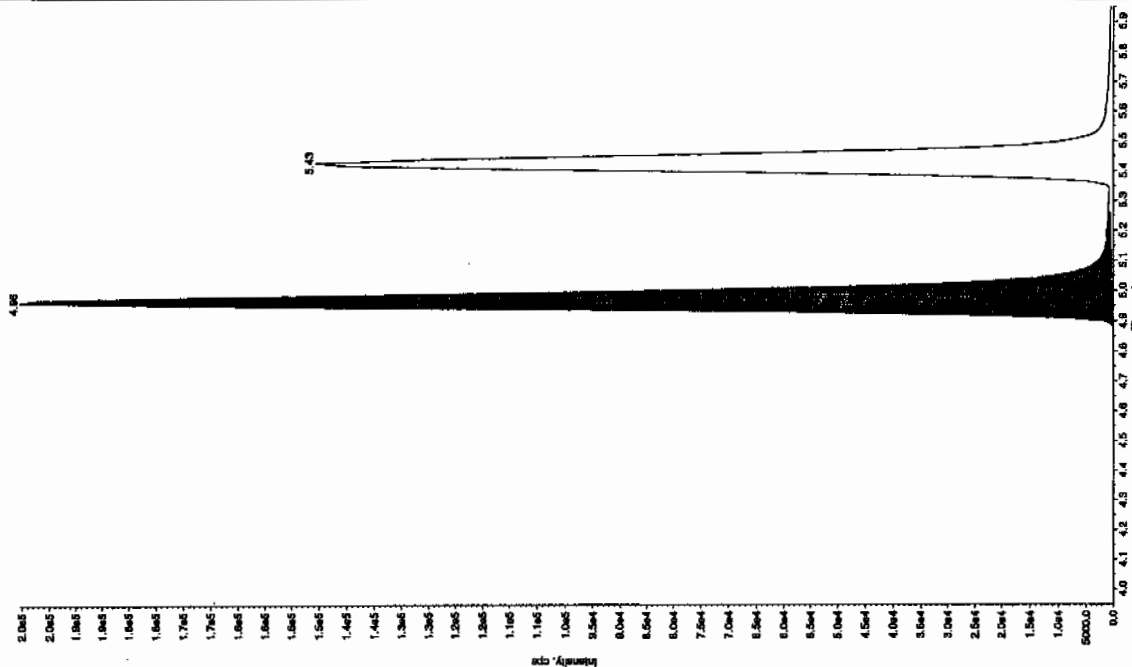
File Name: "WXX100310-260CV" Sample ID: "1111ER" File: "EX303100037.wht"
 Name: "34-Chlorobutylene" Mass(es): "182.1/151.9 amu"
 Method: "LCMSSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 531. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:56:47 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 6.14e+005 counts
 Height: 200217.007 cps
 Start Time: 4.87 min
 End Time: 5.26 min



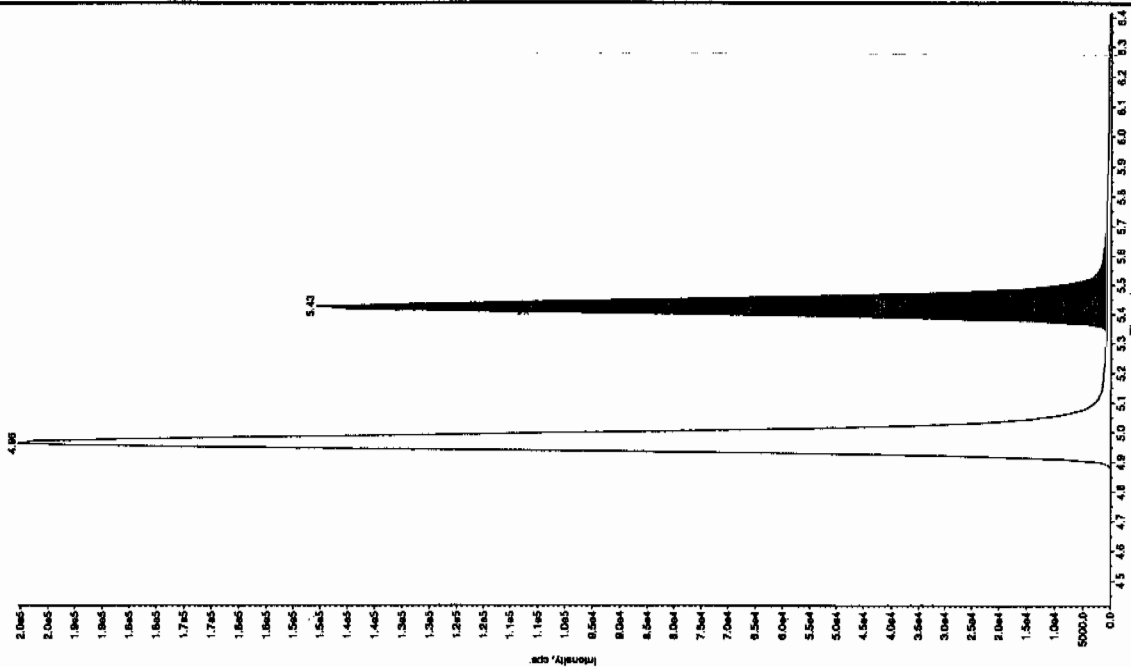
File Name: "WXX100310-260CV" Sample ID: "1111ER" File: "EX303100037.wht"
 Name: "25-Chloro-4-nitrobutylene" Mass(es): "166.0/46.0 amu"
 Method: "LCMSSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 531. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:56:47 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 6.14e+005 counts
 Height: 200217.007 cps
 Start Time: 4.87 min
 End Time: 5.26 min



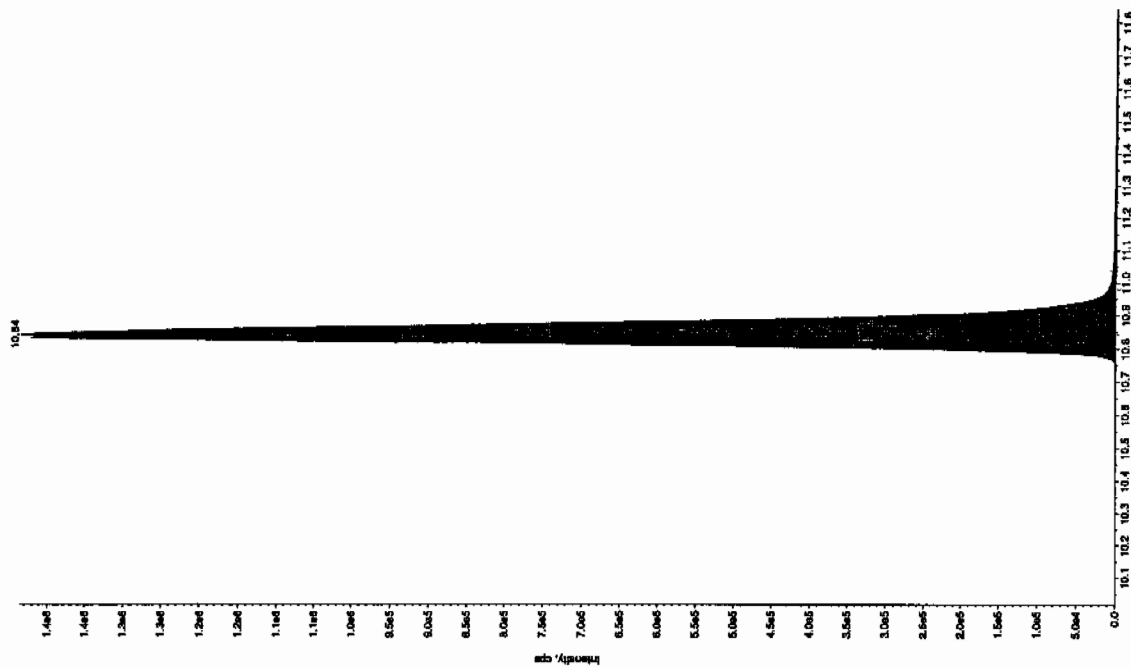
Sample Name: "WXX100310-260CV" Sample ID: "JULERY" File: "EX503100037.wif"
 Peak Name: "Diethyl-5-nitrophenyl phosphor" Mass(es): "166.046.0 and"

Comment: "LCMSEXP_1" Annotation: ""
 Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 476 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:56:47 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.07e+006 counts
 Height: 1434870.972 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Sample Name: "WXX100310-260CV" Sample ID: "JULERY" File: "EX503100037.wif"
 Peak Name: "Diethyl-5-nitrophenyl phosphor" Mass(es): "385.181.0 and"

Comment: "LCMSEXP_1" Annotation: ""
 Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 476 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:56:47 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.07e+006 counts
 Height: 1434870.972 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100039.wiff

Analysis Date: 11-MAR-10 01:28

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	108	108	
2,6-Diamino-4-nitrotoluene	100	107	107	
3,4-Dinitrotoluene	50	50.3	101	
3,5-Dinitroaniline	100	87.8	88	
TATB	100	93.6	94	
tris(o-cresyl) phosphate	100	95.4	95	

Recovery Limits:

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

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

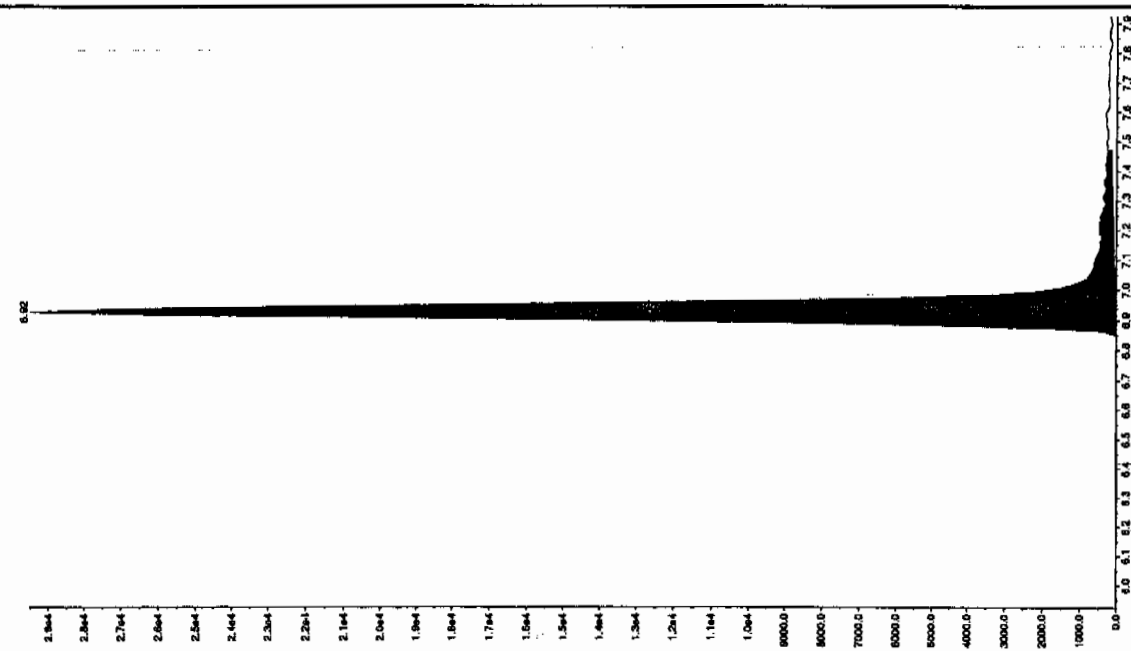
Jan 3/13/10

File Name: "WXX100310-27CR1" Sample ID: "111ER" File: "EX503100038.wif"
 Peak Name: "35-Dinitroanis" Mass(es): "182.046.0 amu"
 Comment: "LONSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: 100
 Concentration: 100
 Calculated Conc: 87.6
 Acq. Date: 3/11/2010
 Acq. Time: 1:28:11 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No

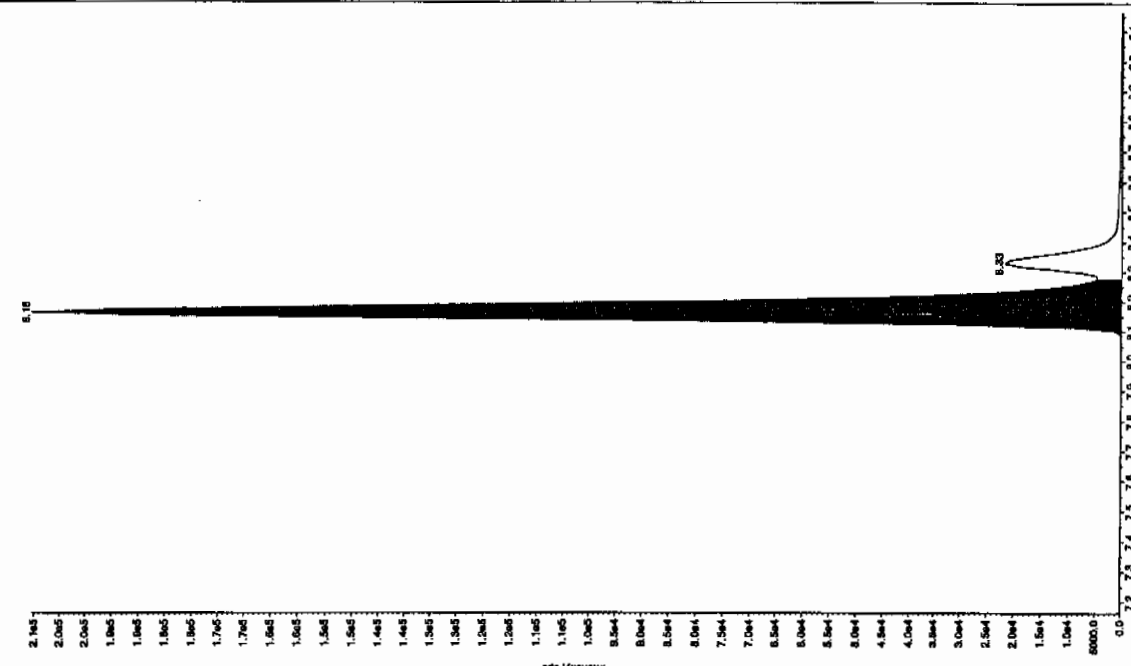
Int. Type: Valley
 Retention Time: 6.92 min
 Area: 1.21e+005 counts
 Height: 29508.844 cps
 Start Time: 6.83 min
 End Time: 7.47 min



Sample Index: 1
 Sample Type: 100
 Concentration: 100
 Calculated Conc: 87.6
 Acq. Date: 3/11/2010
 Acq. Time: 1:28:11 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No

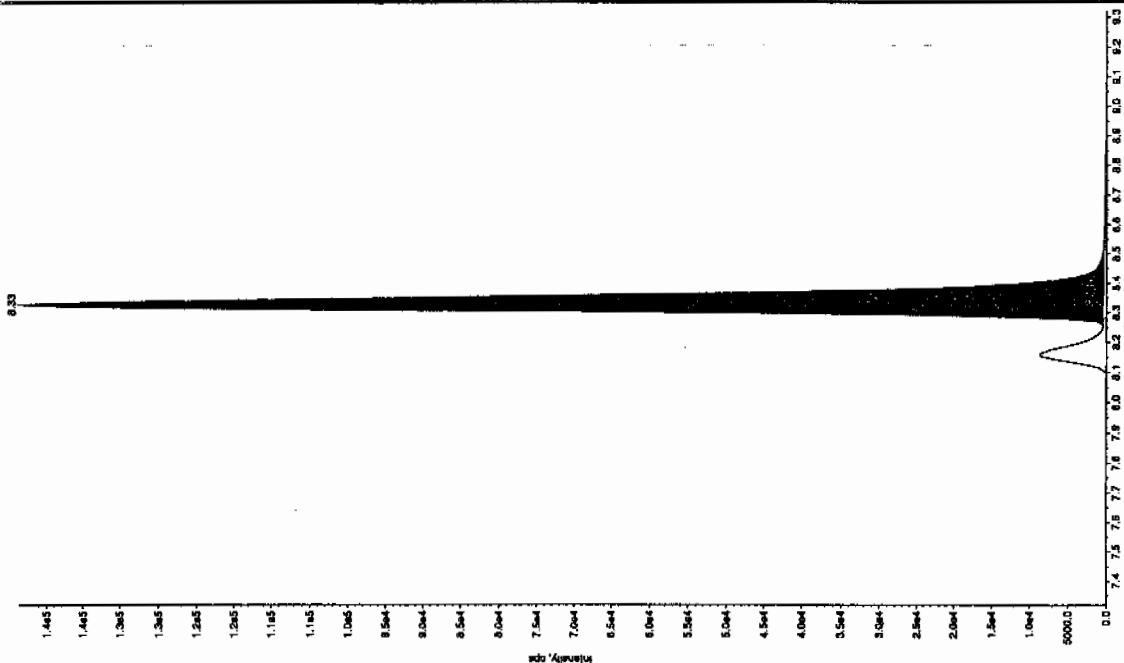
Int. Type: Valley
 Retention Time: 8.16 min
 Area: 7.94e+005 counts
 Height: 205333.389 cps
 Start Time: 8.07 min
 End Time: 8.28 min



Am 03/15/10

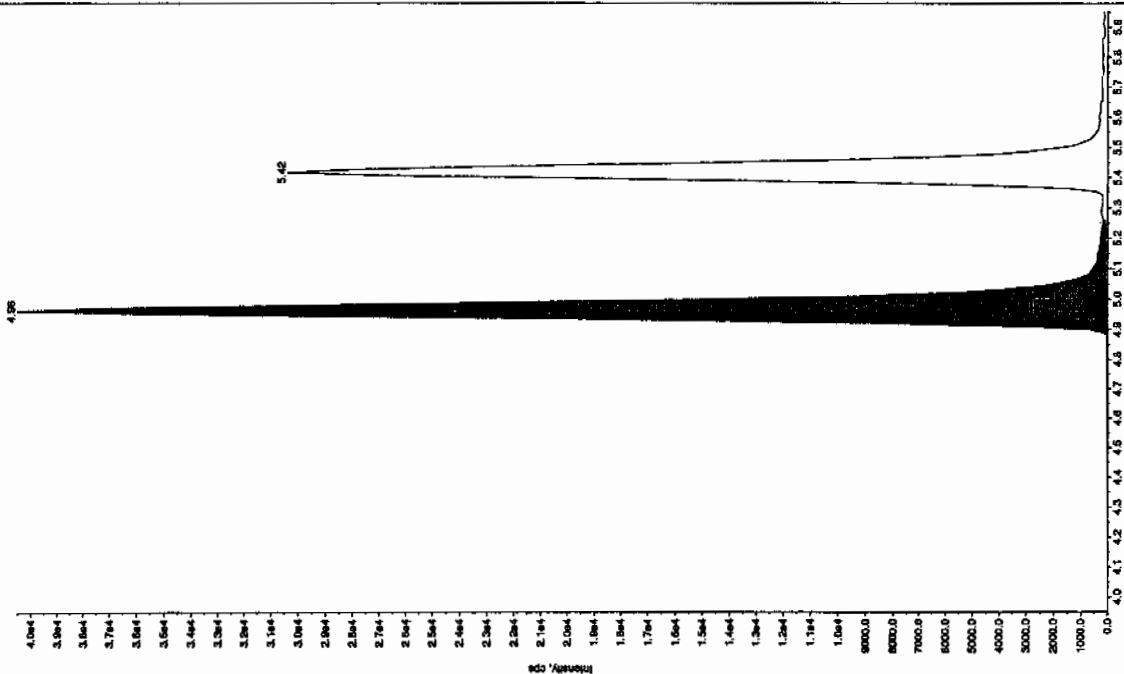
Sample Name: "WXX100310-270R" Sample ID: "111ER" File: "EX503100039.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1519 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 107. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:28:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 1.64e+005 counts
 Height: 80503.166 cps
 Start Time: 8.26 min
 End Time: 8.58 min



Sample Name: "WXX100310-270R" Sample ID: "111ER" File: "EX503100039.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "155.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 107. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:28:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.64e+005 counts
 Height: 80503.166 cps
 Start Time: 4.83 min
 End Time: 5.26 min

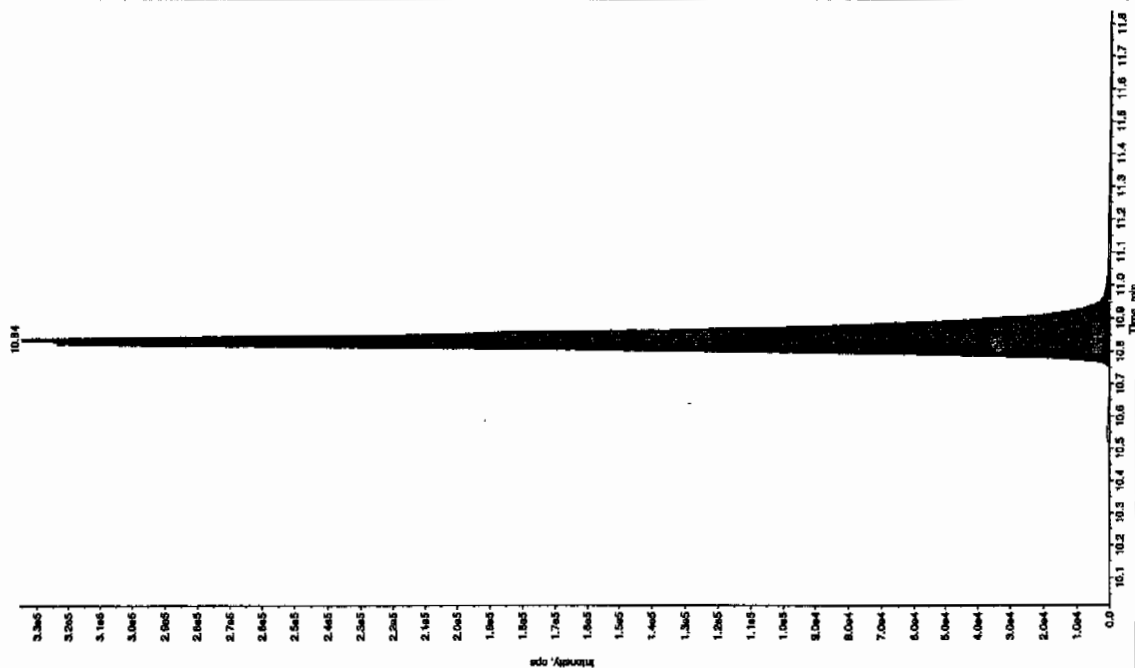
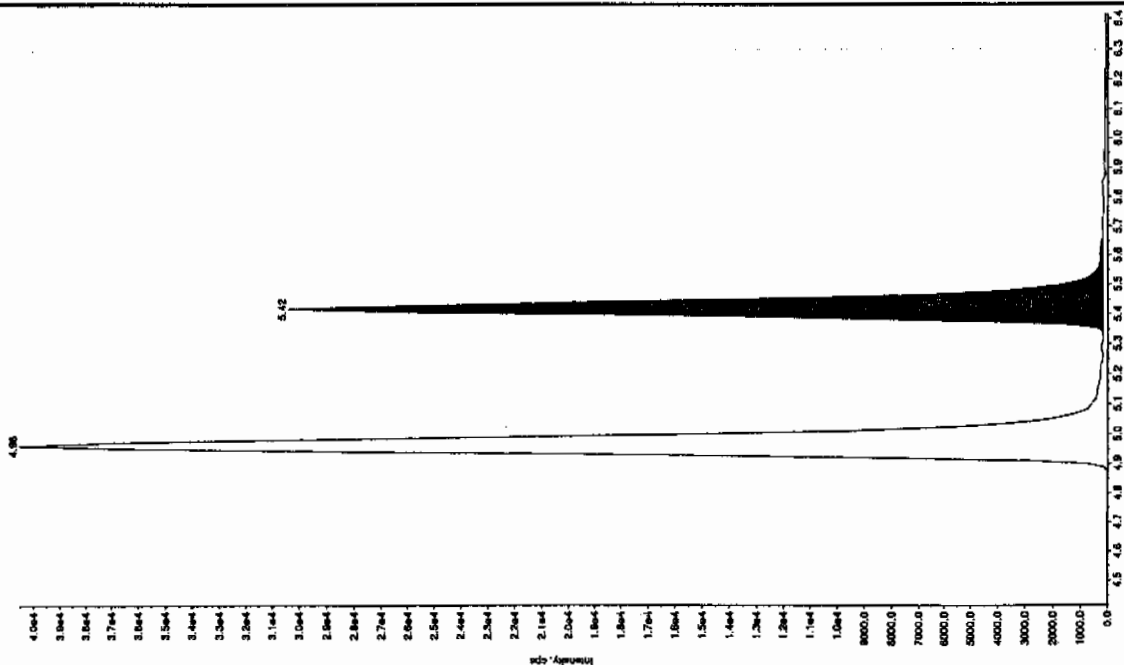


Sample Name: "WXX100310-27091" Sample ID: "J1LEF" File: "EX503100039.wht"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP-C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 3/11/2010
 Acq. Time: 1:28:11 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 5.42 min
 Height: 1.32e+006 counts
 Start Time: 335501.434 sec
 End Time: 10.7 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100044.wiff

Analysis Date: 11-MAR-10 02:46

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	566	113	
2,6-Diamino-4-nitrotoluene	500	543	109	
3,4-Dinitrotoluene	250	268	107	
3,5-Dinitroaniline	500	562	112	
TATB	500	493	99	
tris(o-cresyl) phosphate	500	470	94	

Recovery Limits:

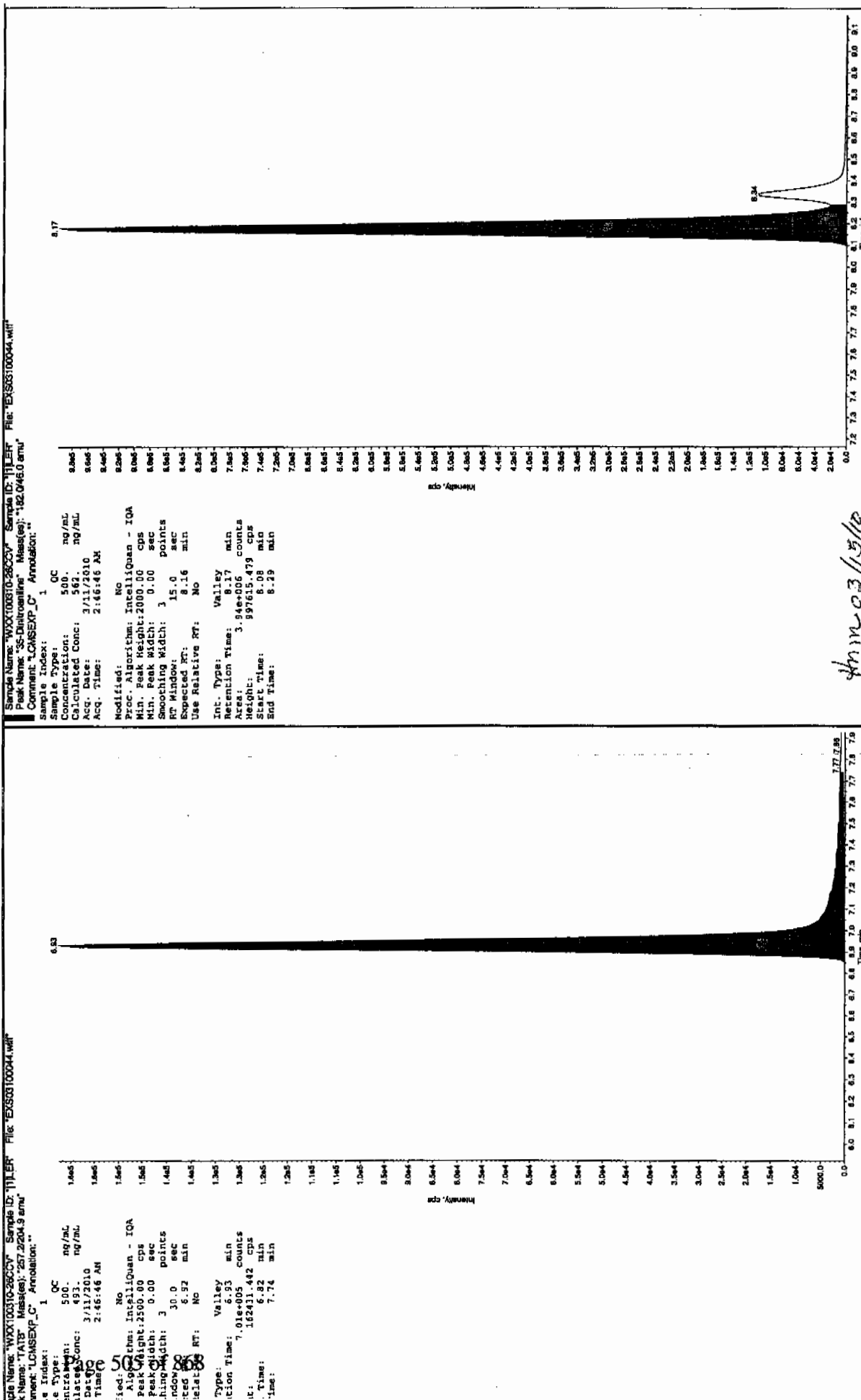
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

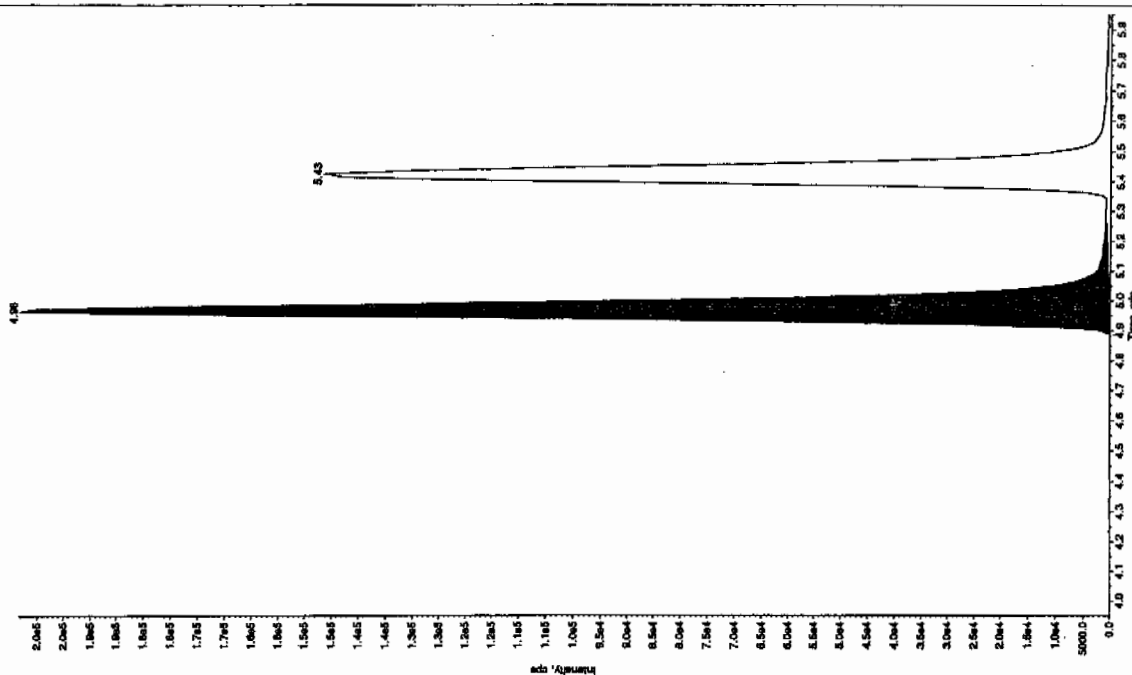
202 3/14/10



4/11/03/15/10

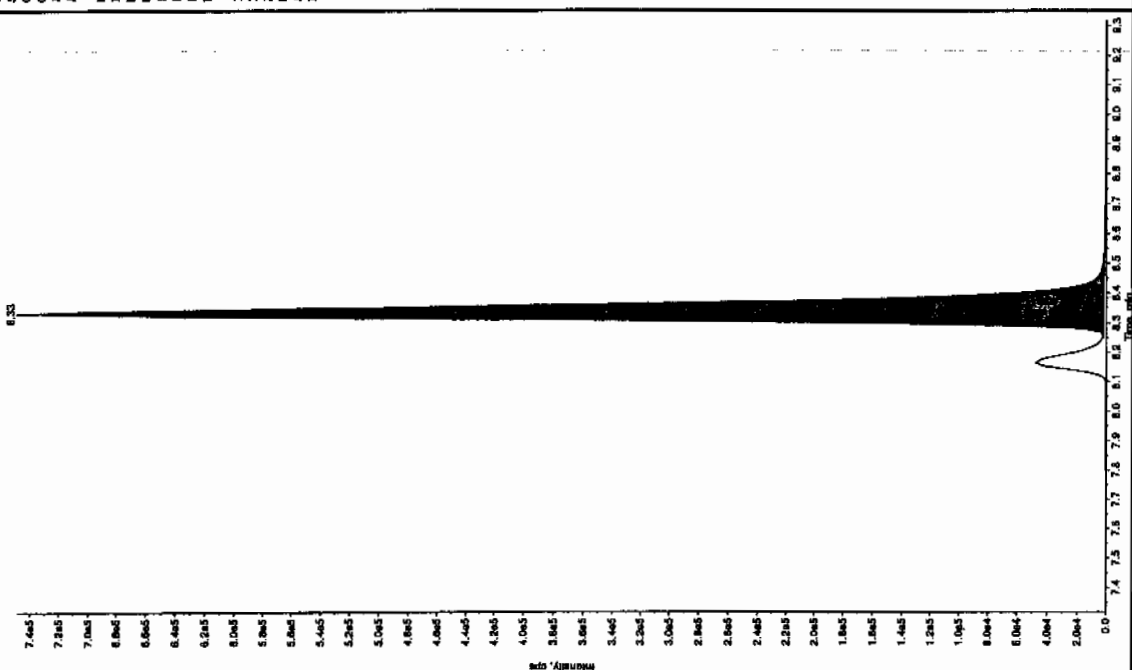
Sample Name: "WXX100310-260CV" Sample ID: "11LEF" File: "EX503100044.wil"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "160.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

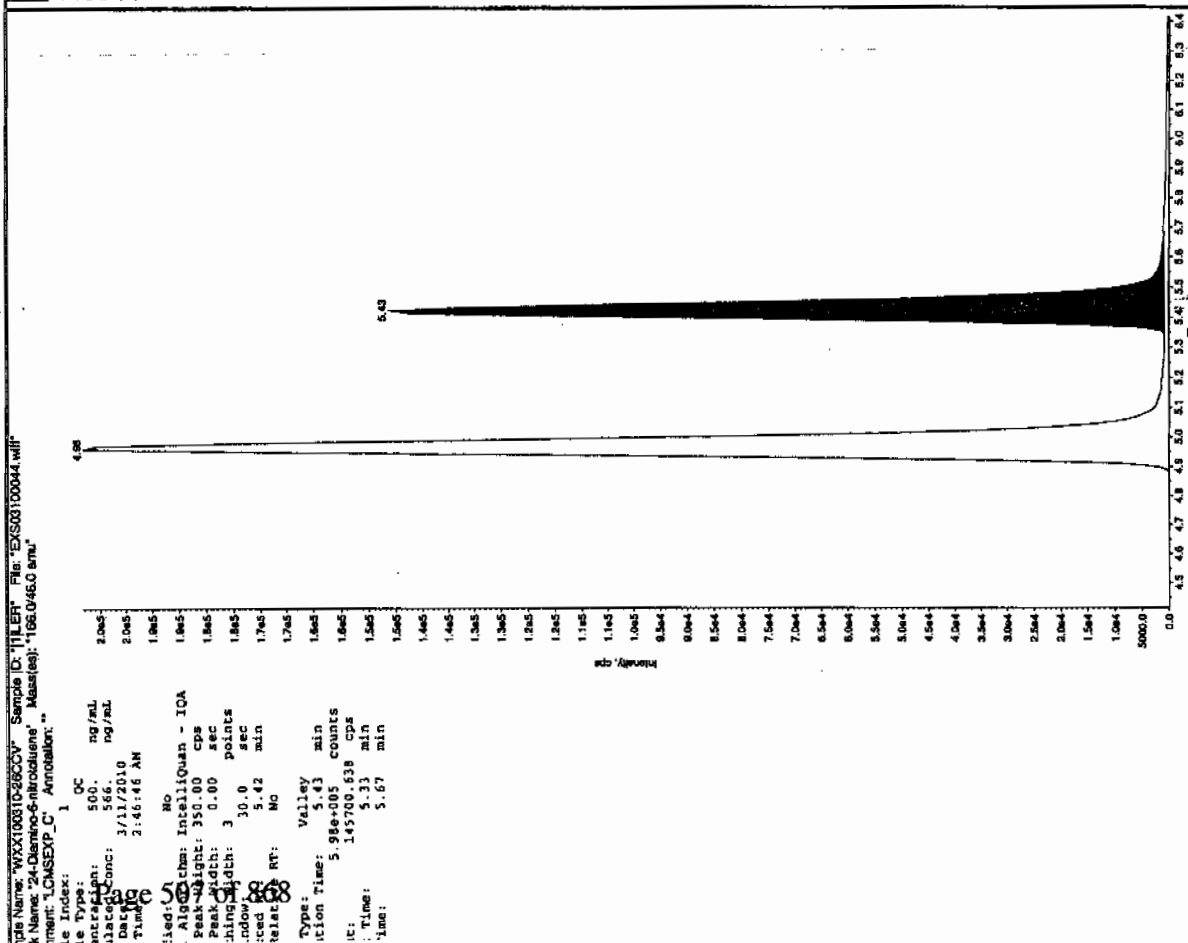
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/21/2010
 Date: 2/16/2010
 ACQ. Time: 2:46:46 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 8.31e+005 counts
 Height: 203297.394 cps
 Start Time: 4.97 min
 End Time: 5.26 min



Sample Name: "WXX100310-260CV" Sample ID: "11LEF" File: "EX503100044.wil"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1519 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 3/21/2010
 Date: 2/16/2010
 ACQ. Time: 2:46:46 AM
 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: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.69e+006 counts
 Height: 766569.519 cps
 Start Time: 8.26 min
 End Time: 8.65 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100046.wiff

Analysis Date: 11-MAR-10 03:18

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	107	107	
2,6-Diamino-4-nitrotoluene	100	106	106	
3,4-Dinitrotoluene	50	50.3	101	
3,5-Dinitroaniline	100	91	91	
TATB	100	98.2	98	
tris(o-cresyl) phosphate	100	94.3	94	

Recovery Limits:

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

Other Target Analytes 70-130%

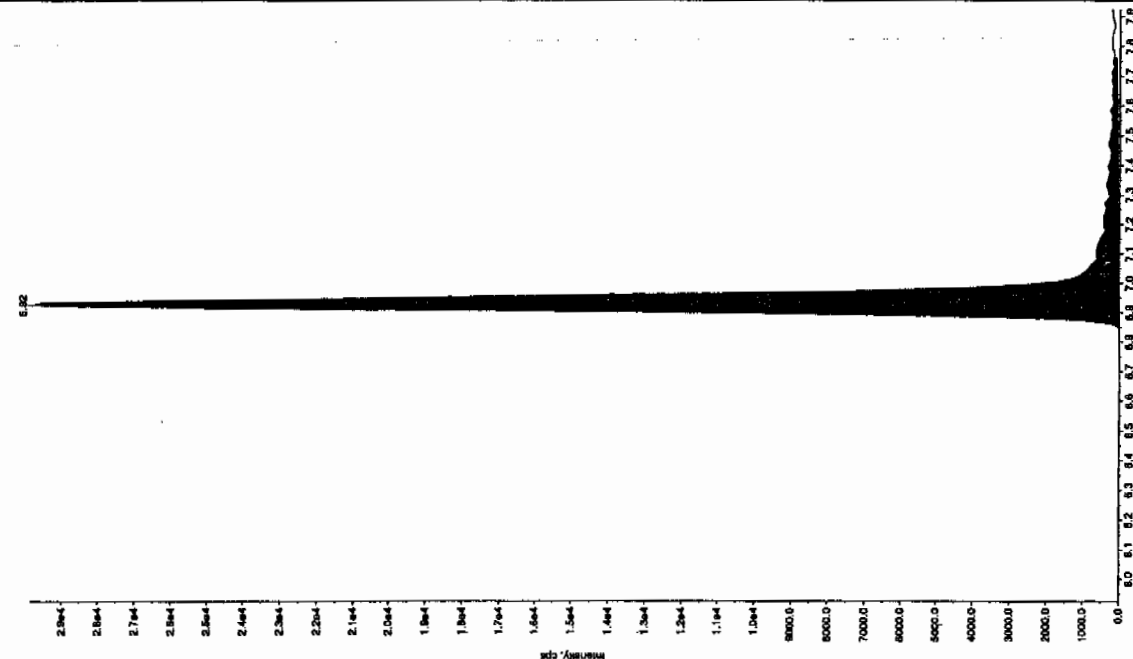
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

264-31410

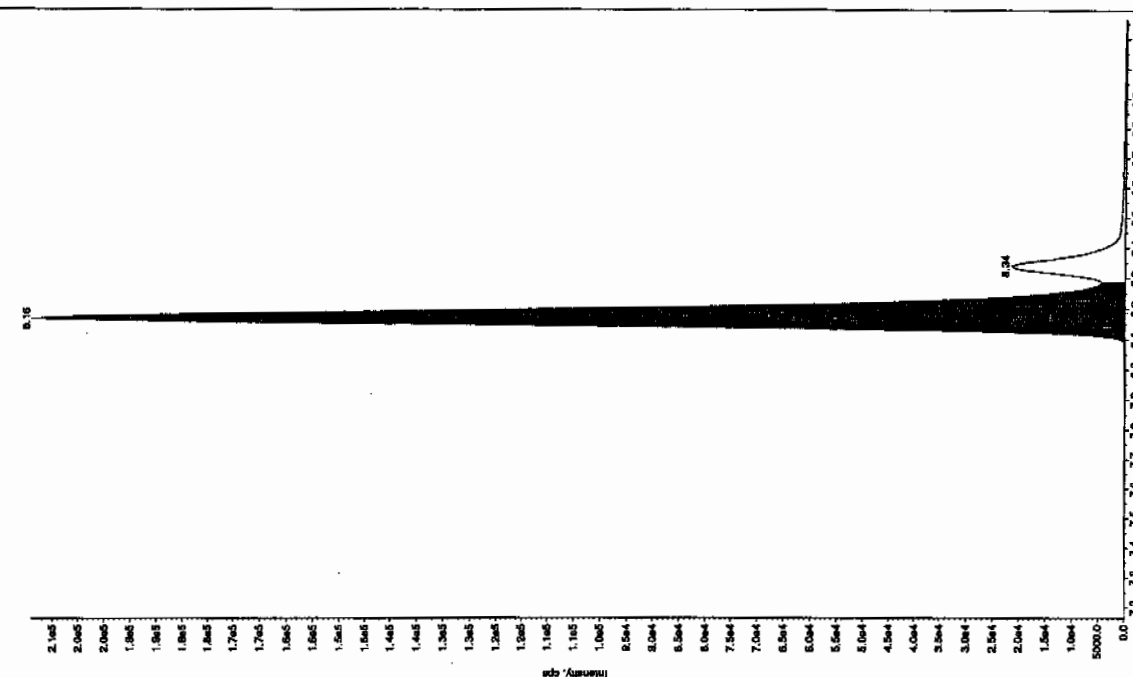
Sample Name: "WXX100310-2709" Sample ID: "1111" File: "EX503100046.wif"
 Peak Name: "7A1B" Mass(es): 257.22045 amu
 Comment: "LONSEXP_C" Annotation:

Sample Index: 1 QC
 Concentration: 100 ng/mL
 Calculated Conc: 91.0 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:18:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.92 min
 Area: 1.28e+005 counts
 Height: 29815.080 cps
 Start Time: 6.79 min
 End Time: 7.76 min



Sample Name: "WXX100310-2709" Sample ID: "1111" File: "EX503100046.wif"
 Peak Name: "3G-Dechlorobenzene" Mass(es): 182.0460 amu
 Comment: "LONSEXP_C" Annotation:

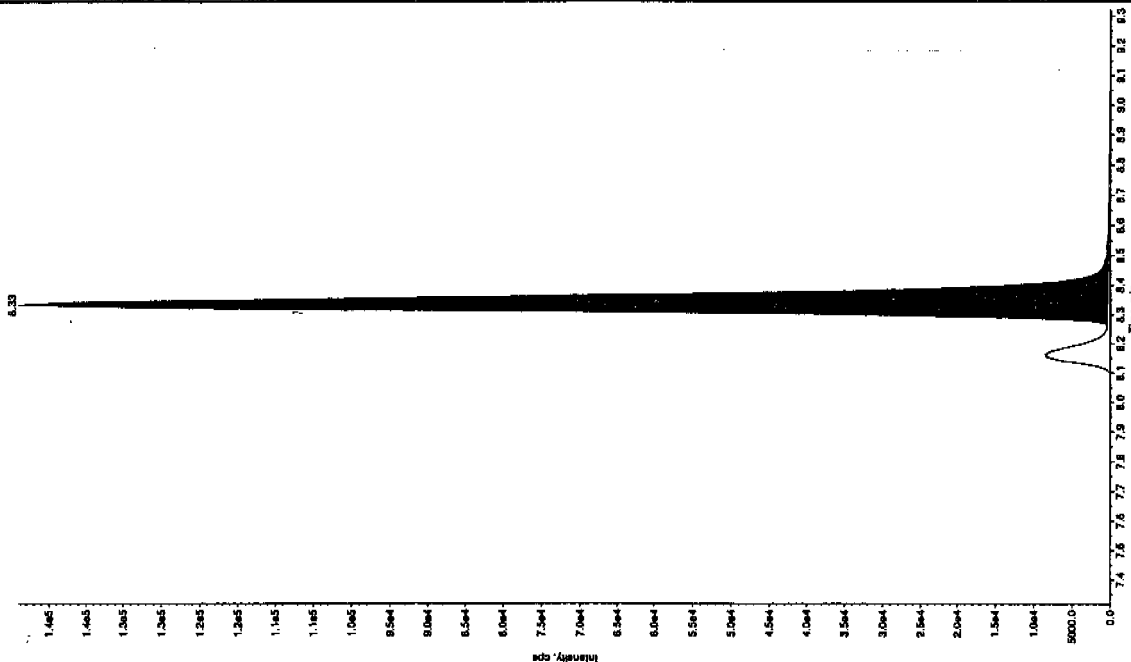
Sample Index: 1 QC
 Concentration: 100 ng/mL
 Calculated Conc: 91.0 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:18:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 8.16e+005 counts
 Height: 20925.585 cps
 Start Time: 8.05 min
 End Time: 8.29 min



4994 03/15/10

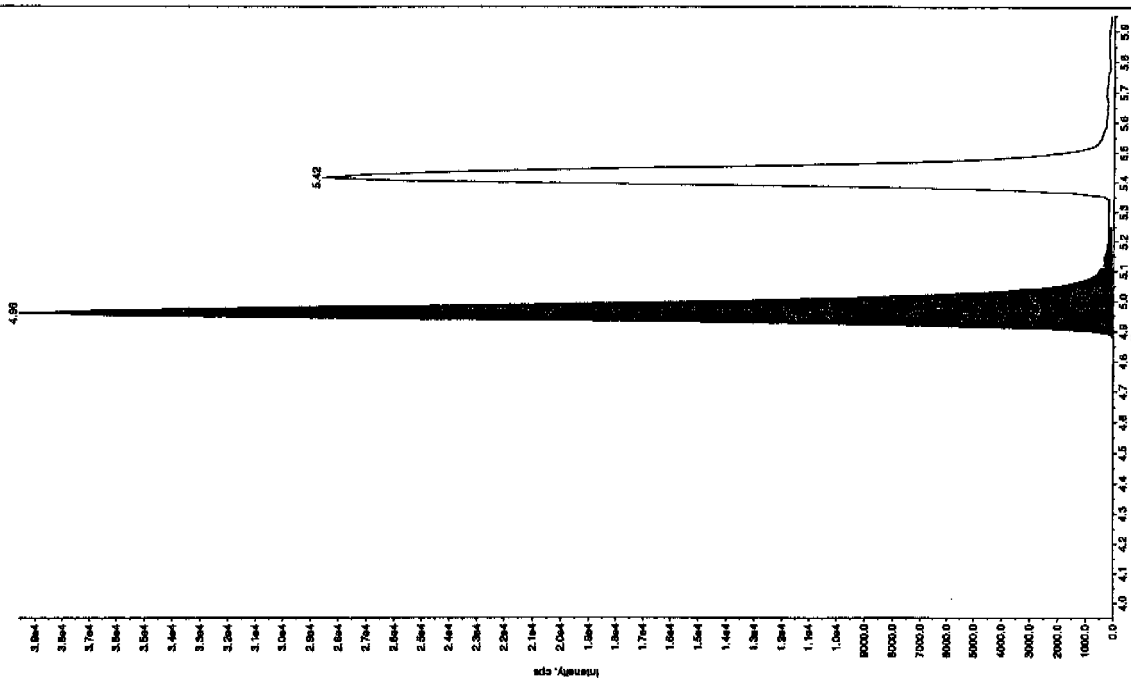
File Name: "WXX100310-27CR" Sample ID: "111ER" File: "EX933100046.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "162.0450 amu"
 Method: "LCMSXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 3/11/2010
 Acq. Time: 3:18:11 AM
 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: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Peak Height: 3.40e+003 counts
 Peak Area: 143529.03 cps
 Start Time: 8.26 min
 End Time: 8.46 min



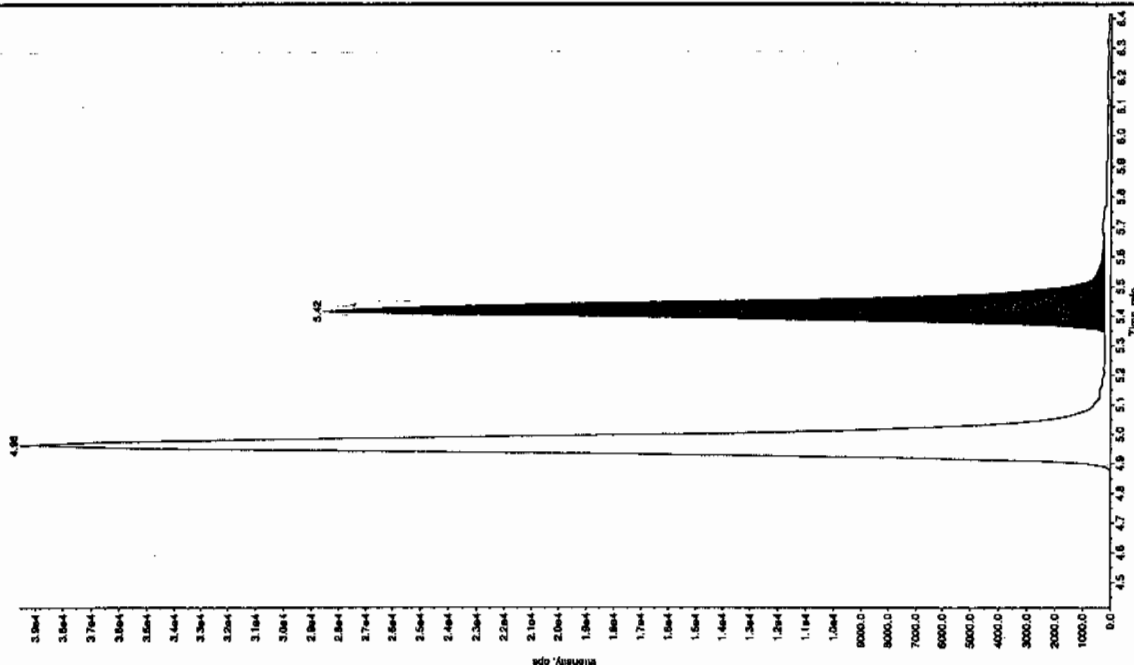
Sample Name: "WXX100310-27CR" Sample ID: "111ER" File: "EX933100046.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "162.0450 amu"
 Method: "LCMSXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 3/11/2010
 Acq. Time: 3:18:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Peak Height: 1.52e+003 counts
 Peak Area: 39546.810 cps
 Start Time: 4.87 min
 End Time: 5.25 min



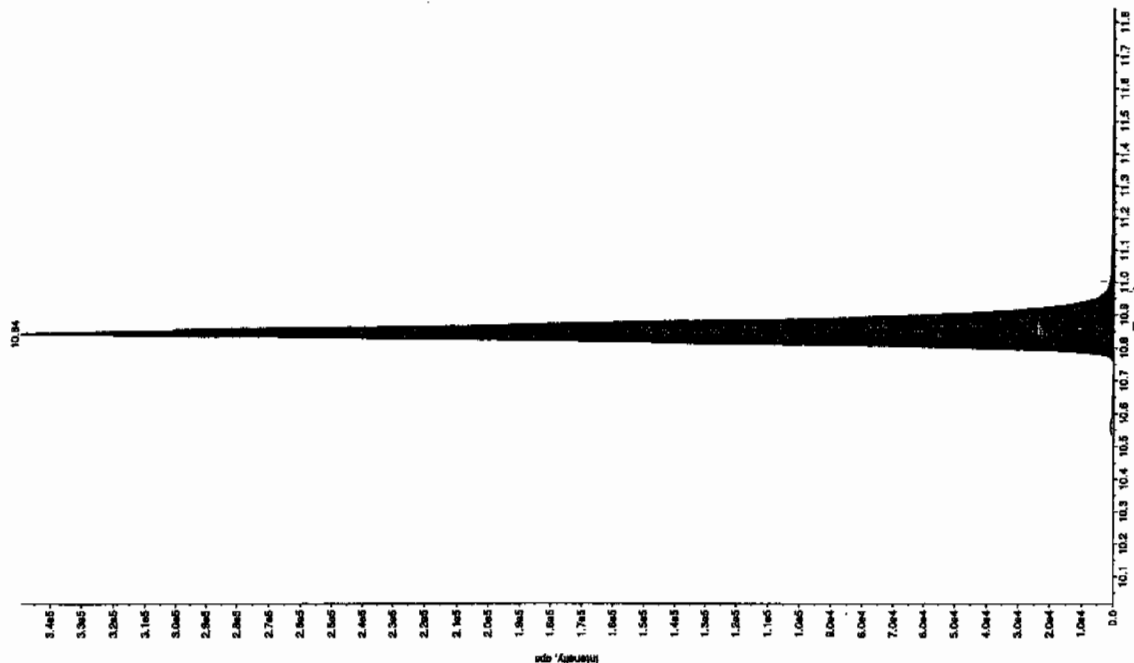
Sample Name: "WXX100310-27CR1" Sample ID: "H1LER" File: "EX503100046.wif"
 Peak Name: "24-Diamino-5-nitrobenzoate" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: GC
 Concentration: 100. ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 3/11/2010
 Acq. Time: 3:18:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.31e+006 counts
 Height: 345152.496 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100310-27CR1" Sample ID: "H1LER" File: "EX503100046.wif"
 Peak Name: "10-(p-cresyl) phosphates" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: GC
 Concentration: 100. ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 3/11/2010
 Acq. Time: 3:18:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.31e+006 counts
 Height: 345152.496 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100055.wiff

Analysis Date: 11-MAR-10 05:39

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	576	115	
2,6-Diamino-4-nitrotoluene	500	535	107	
3,4-Dinitrotoluene	250	266	106	
3,5-Dinitroaniline	500	568	114	
TATB	500	489	98	
tris(o-cresyl) phosphate	500	491	98	

Recovery Limits:

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

Other Target Analytes 80-120%

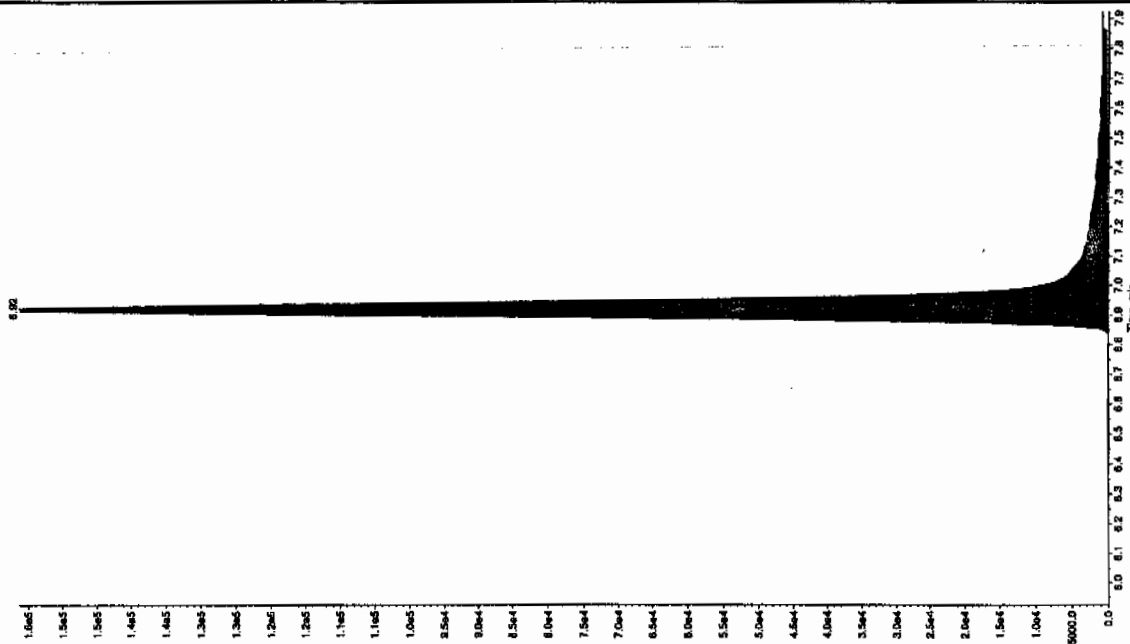
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

dan 3/14/00

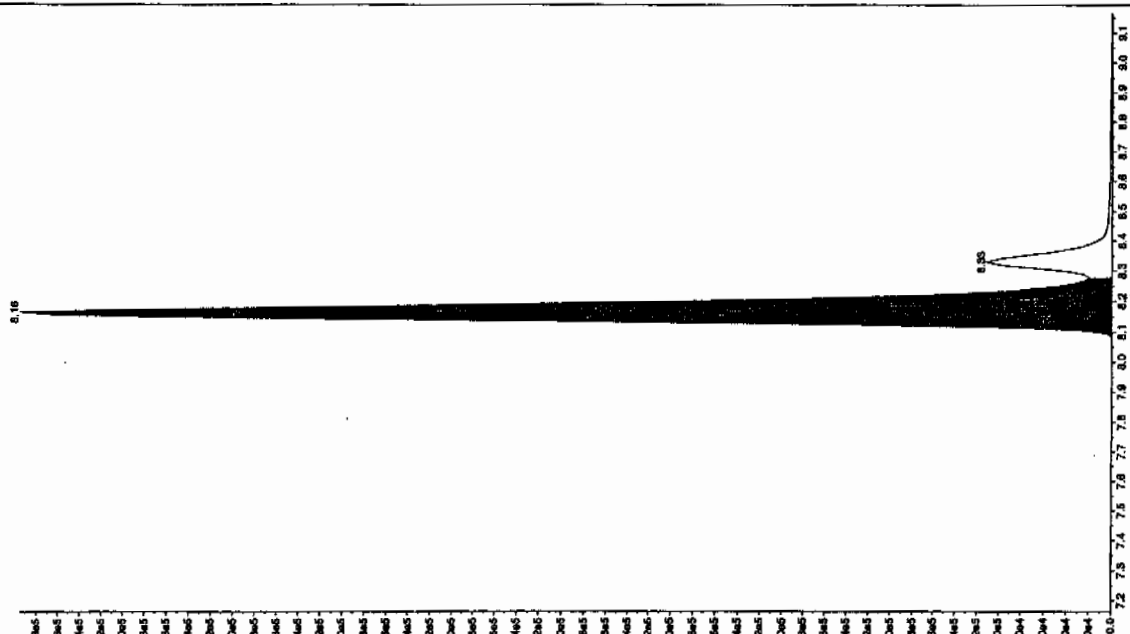
Sample Name: WXX100310-282CV Sample ID: J11ER File: EXS03100055.wif
 Peak Name: TAIB Mass(es): 257.2204.5 amu
 Comment: LCMSEXP_C Annotation:

1e Index: 1
 Sample Type: 500
 Concentration: 489 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 5:39:33 AM
 Acq. Time: 5:39:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 6.82 min
 Peak Height: 156305 counts
 Peak Width: 0.00 sec
 Start Time: 6.82 min
 End Time: 7.85 min



Sample Name: WXX100310-282CV Sample ID: J11ER File: EXS03100055.wif
 Peak Name: TAIB Mass(es): 182.0948.0 amu
 Comment: LCMSEXP_C Annotation:

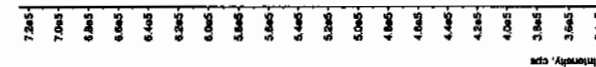
1e Index: 1
 Sample Type: 500
 Concentration: 568 ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 5:39:33 AM
 Acq. Time: 5:39:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.15 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 8.16 min
 Peak Height: 3.98e006 counts
 Peak Width: 0.00 sec
 Start Time: 8.06 min
 End Time: 8.28 min



Amu 03/15/00

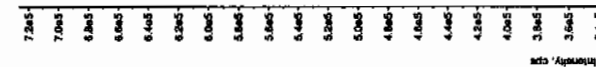
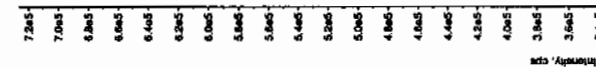
Sample Name: "WXX100310-260CV" Sample ID: "JLIER" File: "EX503100055.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "152.1/151.9 amu"
 Comment: "CONSEXP_C" Annotation: "1"

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 5:39:33 AM
 Acq. Time: 5:39:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Height: 195946.181 counts
 Start Time: 4.87 min
 End Time: 5.26 min



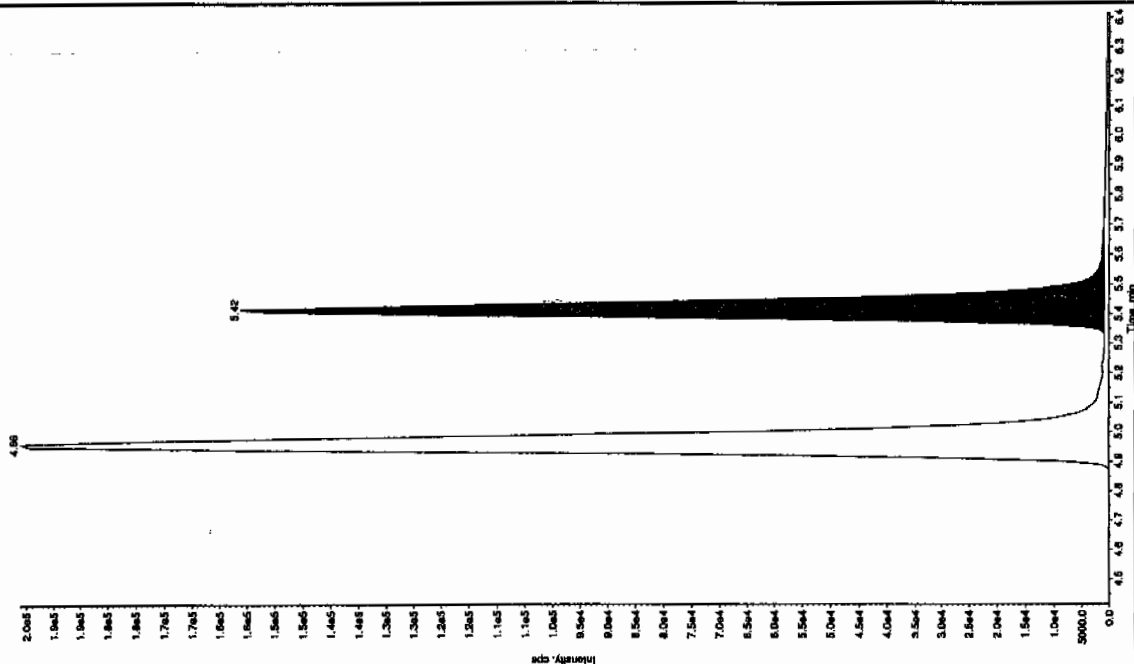
Sample Name: "WXX100310-260CV" Sample ID: "JLIER" File: "EX503100055.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0/166.0 amu"
 Comment: "CONSEXP_C" Annotation: "1"

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/11/2010
 Acq. Date: 5:39:33 AM
 Acq. Time: 5:39:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Height: 195946.181 counts
 Start Time: 4.87 min
 End Time: 5.26 min



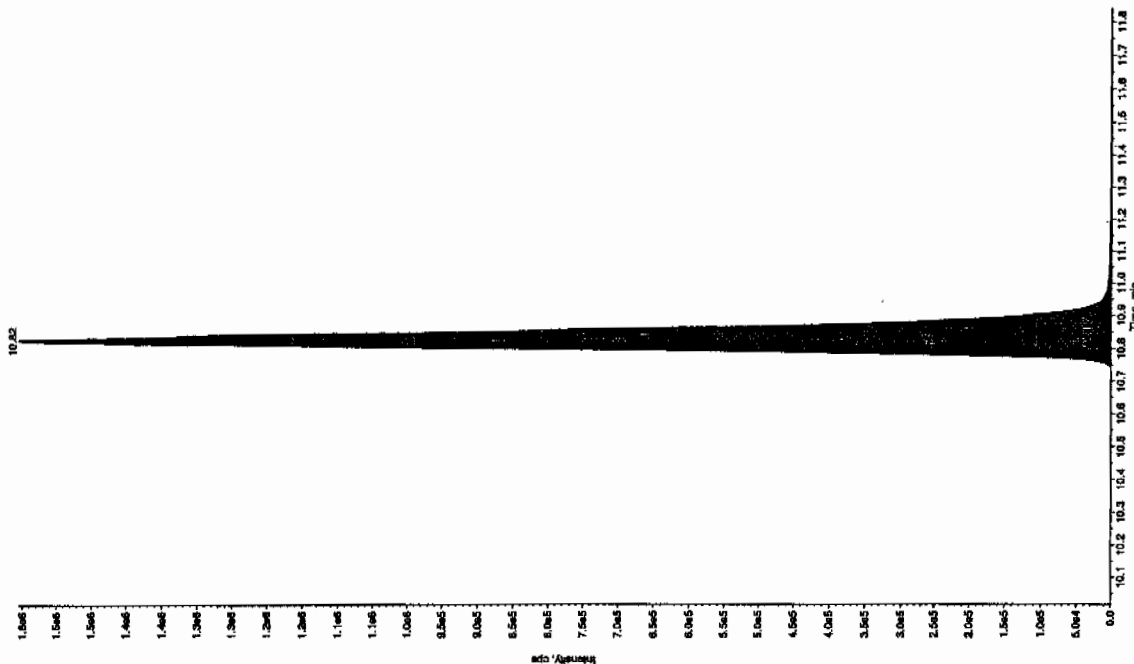
Sample Name: "WXX100310-280CV" Sample ID: "11LRF" File: "EXS03100056.wif"
 Peak Name: "24-Diamino-6-nitroindane" Mass(es): "196.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 576. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 5:39:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 35.00 cps
 Min. Peak Width: 3 0.00 points
 Smoothing Width: 30.0 sec
 RT Window: 5.42 min
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 6.08e+005 counts
 Height: 155212.540 cps
 Start Time: 5.32 min
 End Time: 5.73 min



Sample Name: "WXX100310-280CV" Sample ID: "11LRF" File: "EXS03100056.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "368.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 491. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 5:39:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 3 0.00 points
 Smoothing Width: 30.0 sec
 RT Window: 10.6 min
 Expected RT: 10.6 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.21e+006 counts
 Height: 155413.599 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100057.wiff

Analysis Date: 11-MAR-10 06:10

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	111	111	
2,6-Diamino-4-nitrotoluene	100	114	114	
3,4-Dinitrotoluene	50	52.3	105	
3,5-Dinitroaniline	100	92.3	92	
TATB	100	95.8	96	
tris(o-cresyl) phosphate	100	94.8	95	

Recovery Limits:

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

Other Target Analytes 70-130%

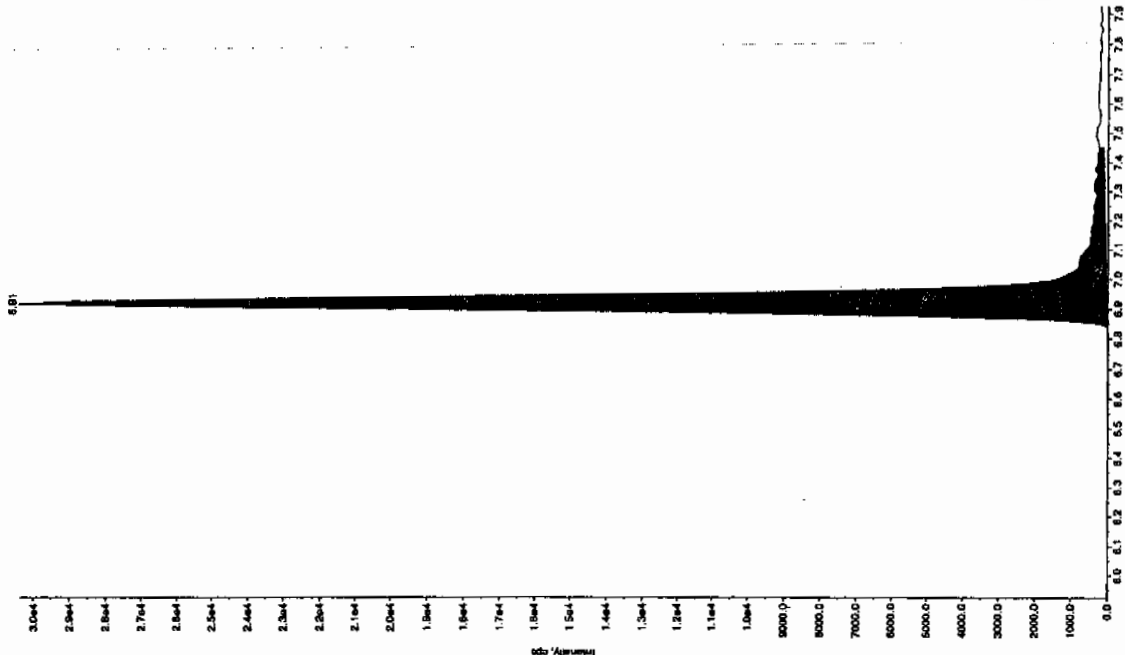
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 3/14/00

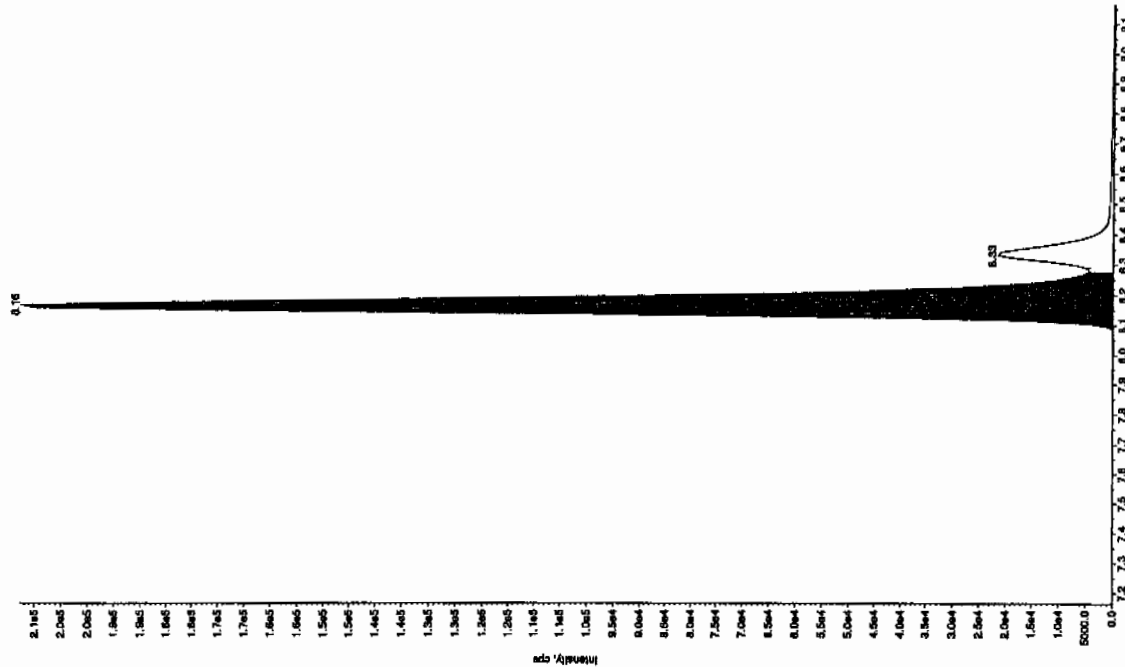
Sample Name: "WXX100310-270R1" Sample ID: "HILFER" File: "EXS03100057.wif"
 at Name: "TATB" Message: "257.2504.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

File Index: 1
 Sample Type: 100, ng/mL
 Concentration: 3.71/2010
 Date: 3/11/2000
 Time: 6:10:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Peak Height: 2500.00 cps
 Peak Width: 0.00 sec
 Window Width: 30.0 points
 Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 6.91 min
 Area: 1.34e+005 counts
 Height: 30373.878 cps
 Start Time: 6.79 min
 End Time: 7.45 min

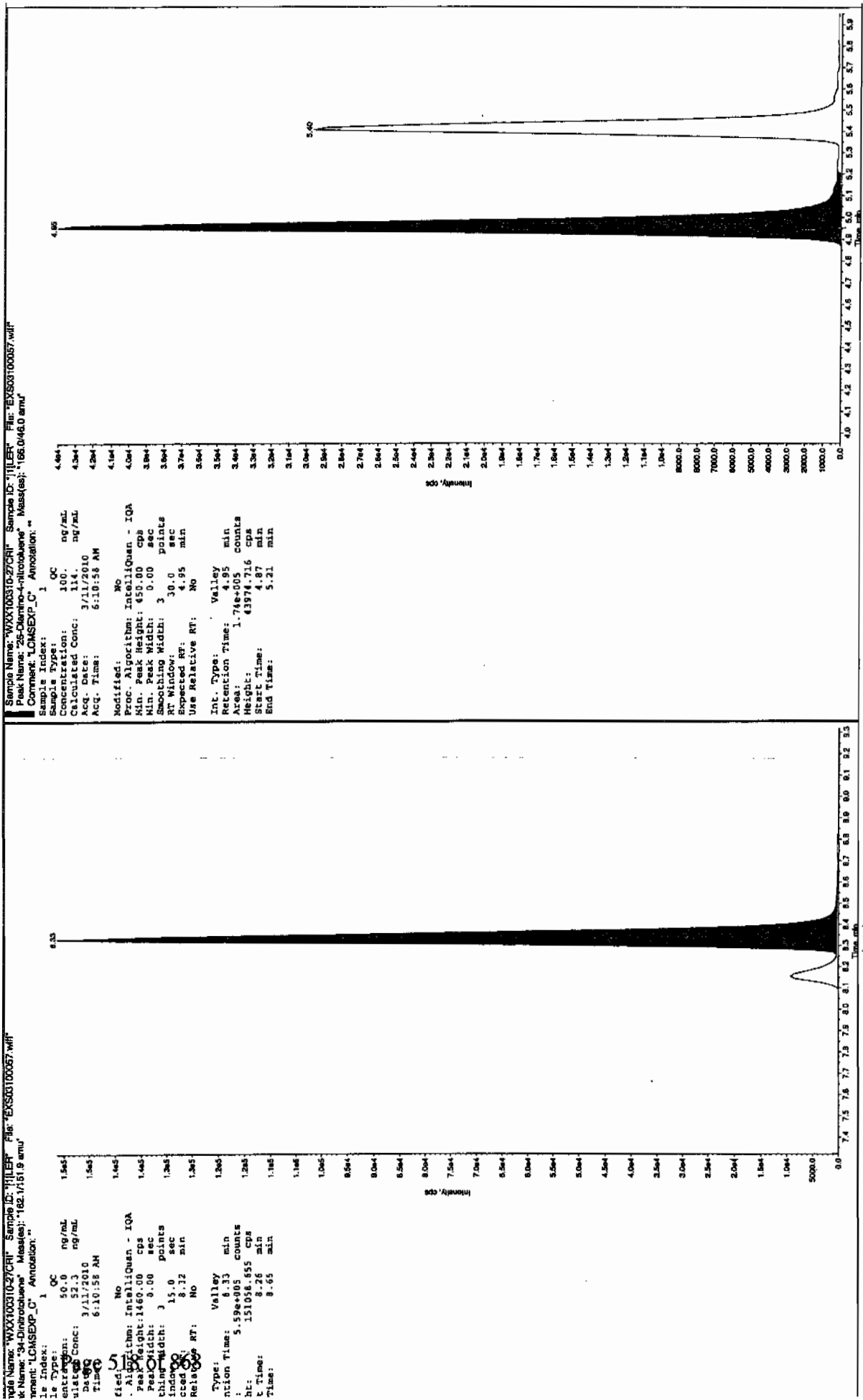


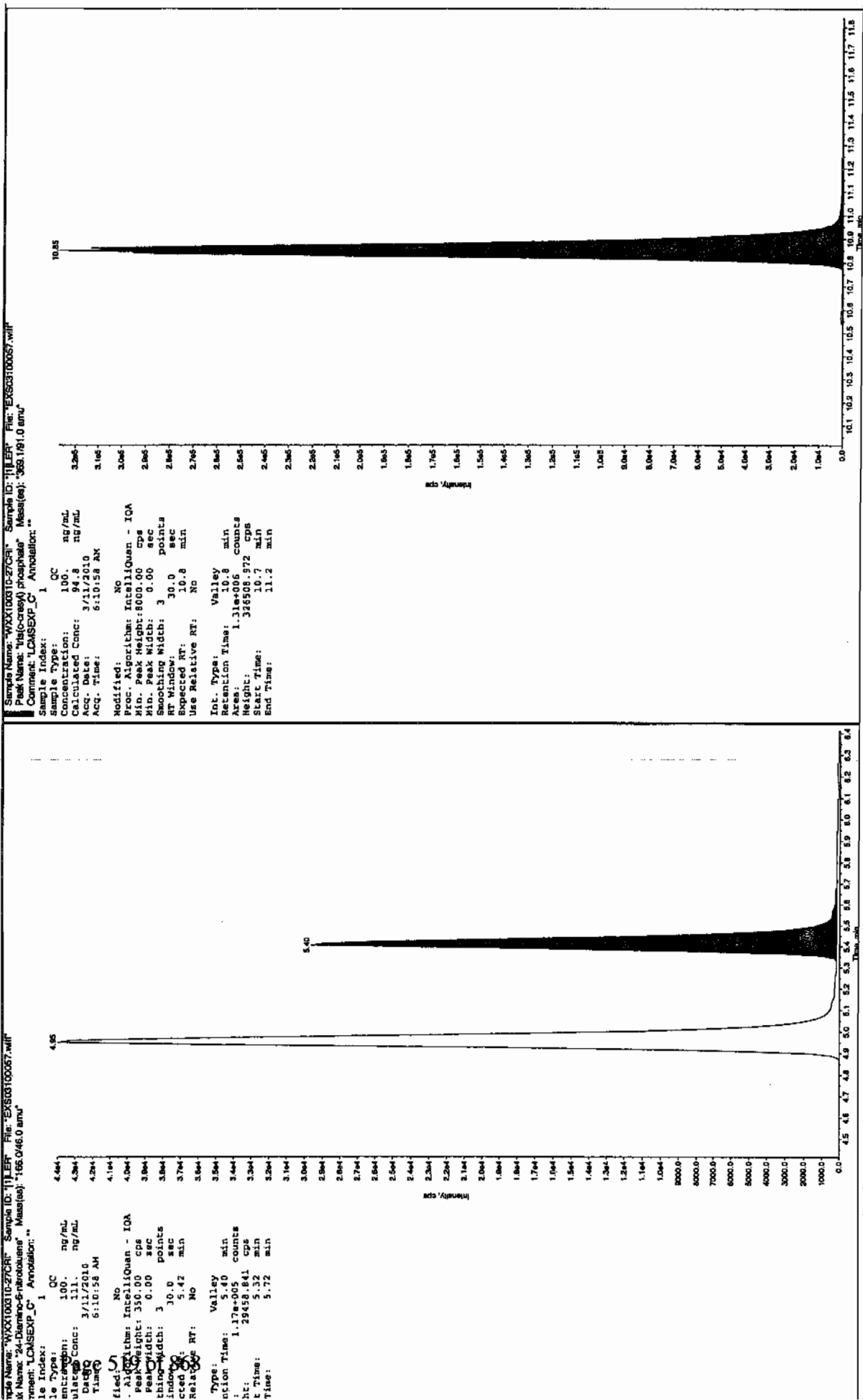
Sample Name: "WXX100310-270R1" Sample ID: "HILFER" File: "EXS03100057.wif"
 Peak Name: "35-Dehydroanthracene" Message: "182.0463.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

File Index: 1
 Sample Type: 100, ng/mL
 Concentration: 3.71/2010
 Date: 3/11/2000
 Time: 6:10:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Peak Height: 2000.00 cps
 Peak Width: 0.00 sec
 Window Width: 15.0 points
 Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 8.16 min
 Area: 8.25e+005 counts
 Height: 207729.156 cps
 Start Time: 8.06 min
 End Time: 8.28 min



Run 03/15/00





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100066.wiff

Analysis Date: 11-MAR-10 08:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	457	91	
2,6-Diamino-4-nitrotoluene	500	480	96	
3,4-Dinitrotoluene	250	240	96	
3,5-Dinitroaniline	500	501	100	
TATB	500	485	97	
tris(o-cresyl) phosphate	500	471	94	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3/3/10

Sample Name: "WXX100310-260CV" Sample ID: "JILLER" File: "EXS03100056.wif"

Peak Name: "TATP" Mass(es): "257.2/204.8 amu" Annotation: ""

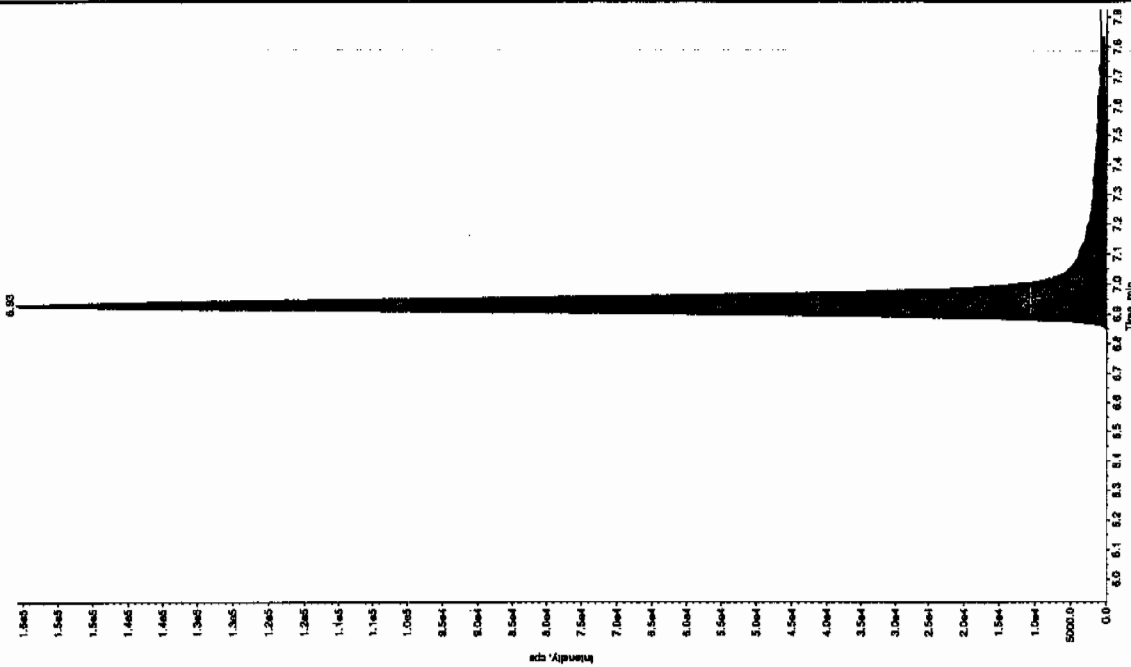
Sample Index: 1

Sample Type: OC
Concentration: 500. ng/mL
Calculated Conc: 485. ng/mL
Acq. Date: 3/11/2010
Acq. Time: 8:32:21 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 6.92 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.93 min
Area: 6.88e+005 counts
Height: 155859.207 cps
Start Time: 6.83 min
End Time: 7.03 min



Sample Name: "WXX100310-260CV" Sample ID: "JILLER" File: "EXS03100056.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/145.0 amu" Annotation: ""

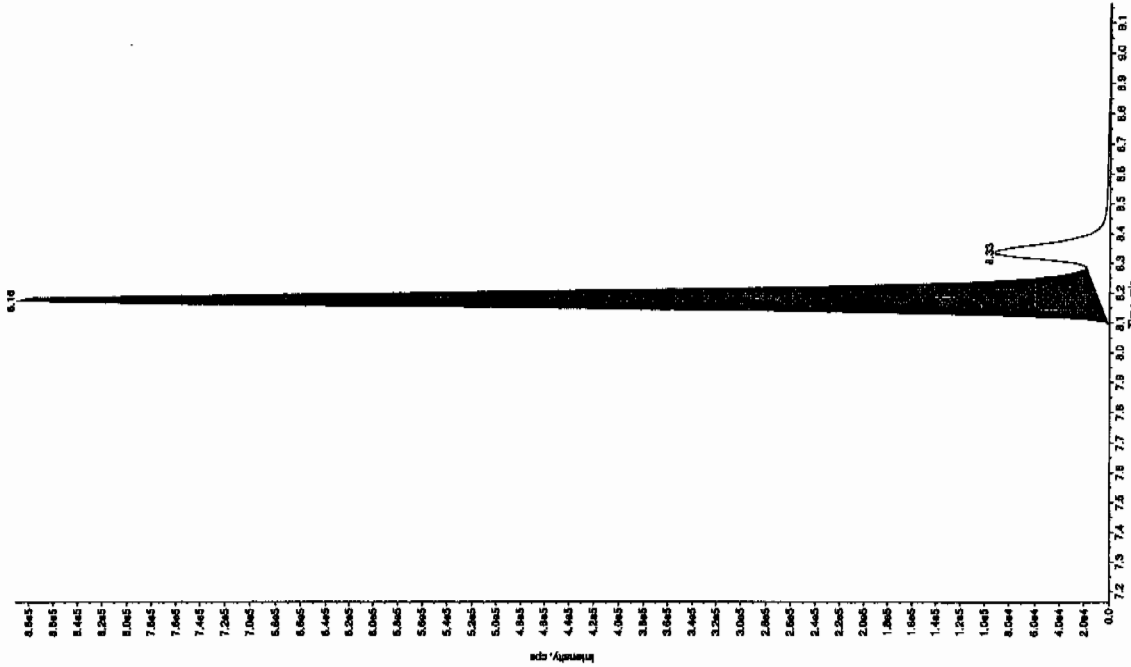
Sample Index: 1

Sample Type: OC
Concentration: 500. ng/mL
Calculated Conc: 486. ng/mL
Acq. Date: 3/11/2010
Acq. Time: 8:32:21 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.16 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.16 min
Area: 3.45e+006 counts
Height: 883696.472 cps
Start Time: 8.09 min
End Time: 8.29 min

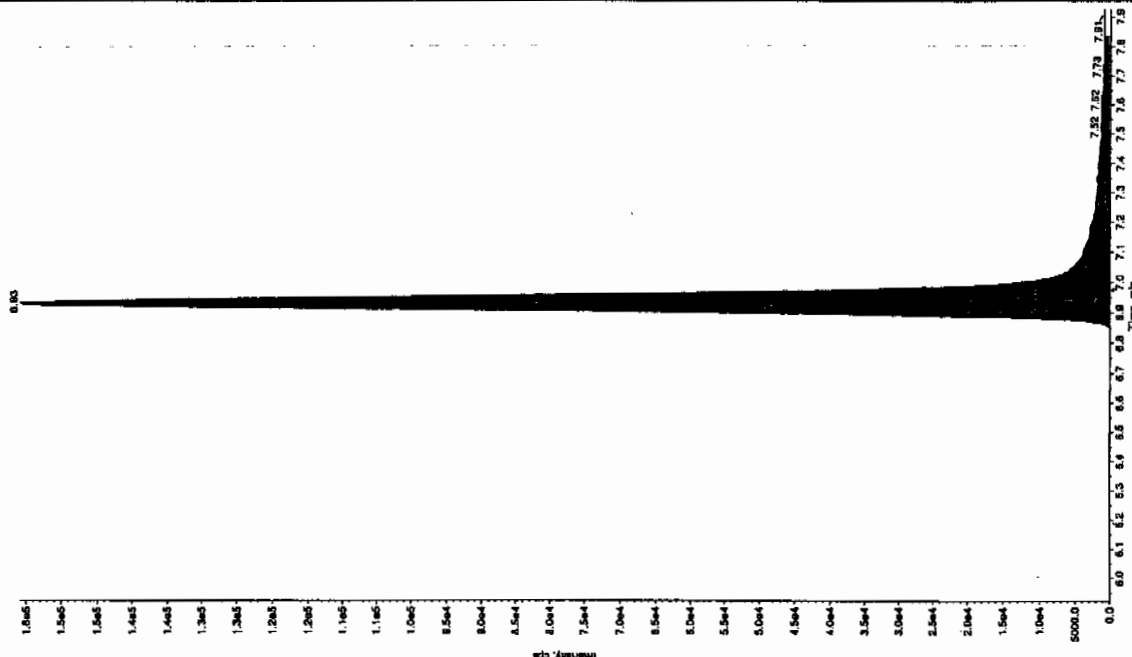


4/11/03/15/10

after Jan 3/14/10

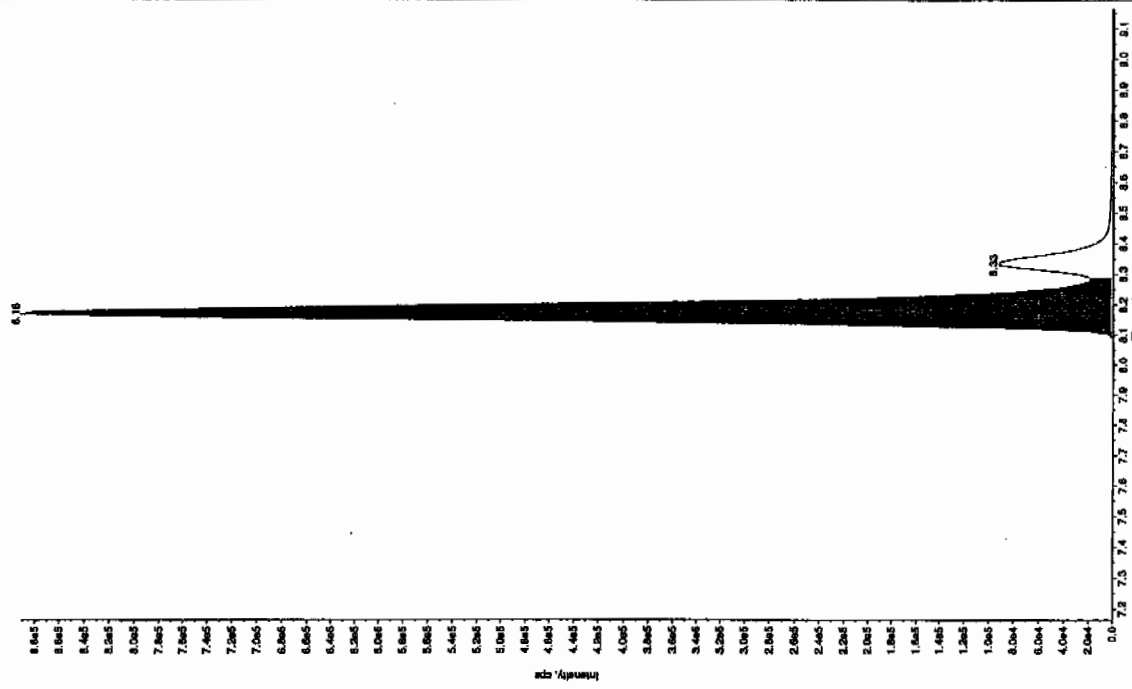
File Name: "WXX100310-280CV" Sample ID: "TILIER" File: "EX83100068.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_O" Annotation: ""

1e Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 501. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 8:32:21 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.17 min
 Peak Height: 903038.127 cps
 Start Time: 8.09 min
 End Time: 8.29 min



File Name: "WXX100310-280CV" Sample ID: "TILIER" File: "EX83100068.wif"
 Peak Name: "35-Divertionline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

1e Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 501. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 8:32:21 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.17 min
 Peak Height: 903038.127 cps
 Start Time: 8.09 min
 End Time: 8.29 min



Sample Name: "WXX100310-260CV" Sample ID: "JILF" File: "EX50310036.wif"

Peak Name: "34-Dinitrochlorobenzene" Mass(es): "182.1/151.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 250. ng/mL

Calculated Conc: 240. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 8:32:21 AM

Modified: No

Proc. Algorithm: IntellQuan - IQA

Min. Peak Height: 100.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3.00 points

RT Window: 15.0 sec

Expected RT: 8.32 min

Use Relative RT: No

Int. Type: Valley

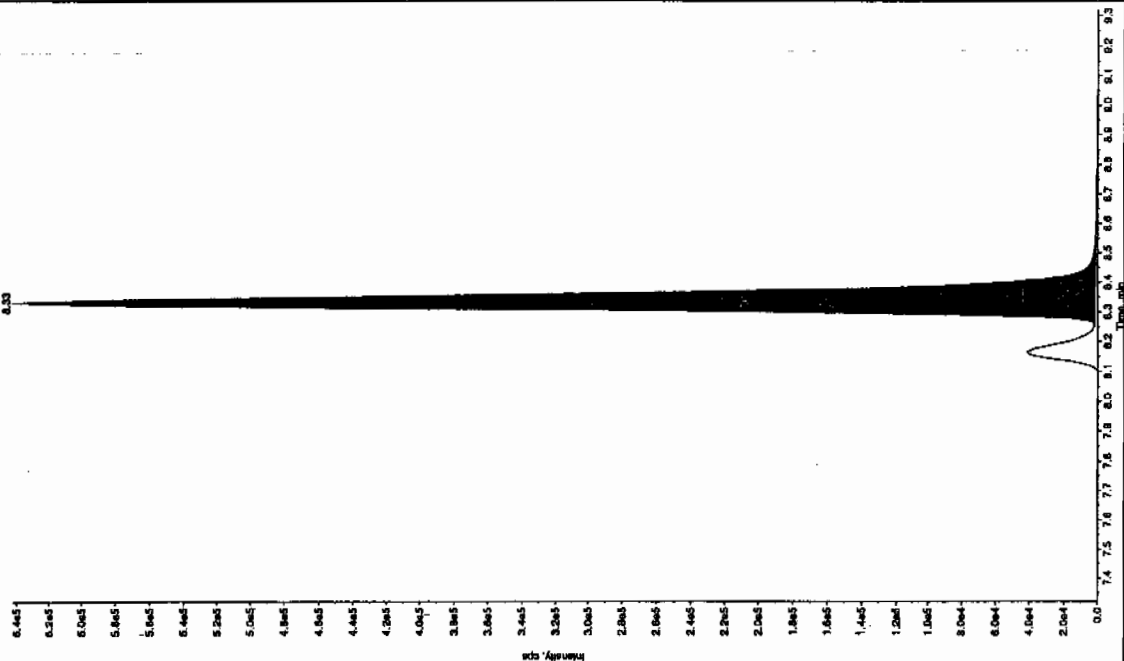
Retention Time: 8.33 min

Area: 2.42e+006 counts

Height: 640585.632 cps

Start Time: 8.26 min

End Time: 8.59 min



Sample Name: "WXX100310-260CV" Sample ID: "JILF" File: "EX50310036.wif"

Peak Name: "26-Dinitro-4-nitrochlorobenzene" Mass(es): "168.0/168.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 480. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 8:32:21 AM

Modified: No

Proc. Algorithm: IntellQuan - IQA

Min. Peak Height: 450.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3.00 points

RT Window: 30.0 sec

Expected RT: 4.95 min

Use Relative RT: No

Int. Type: Valley

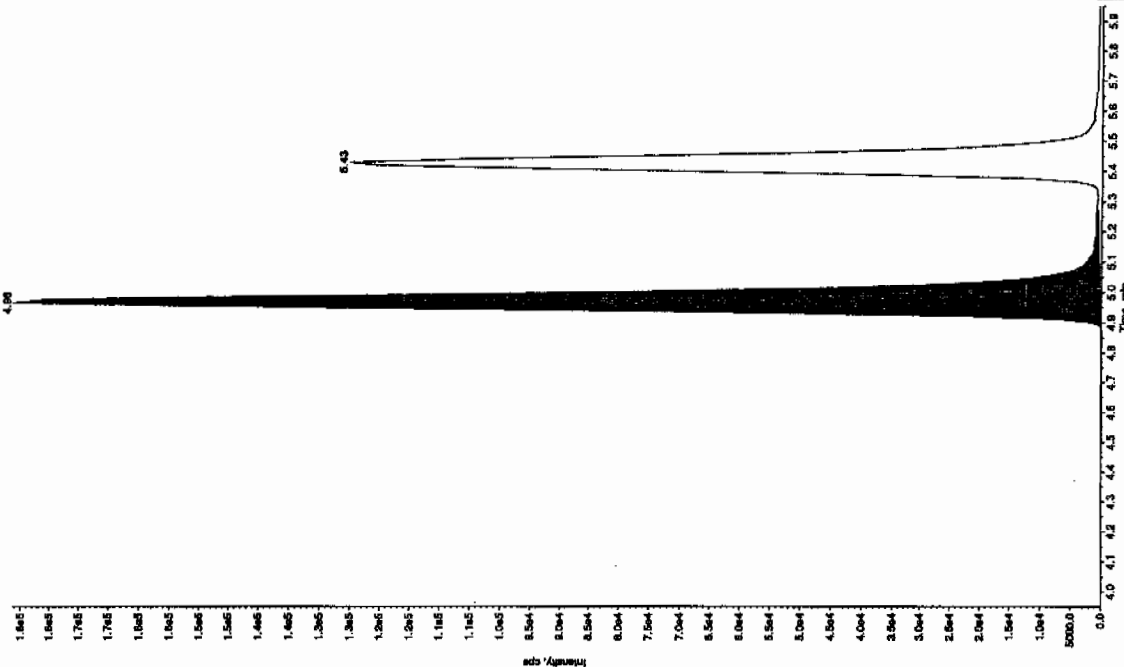
Retention Time: 4.96 min

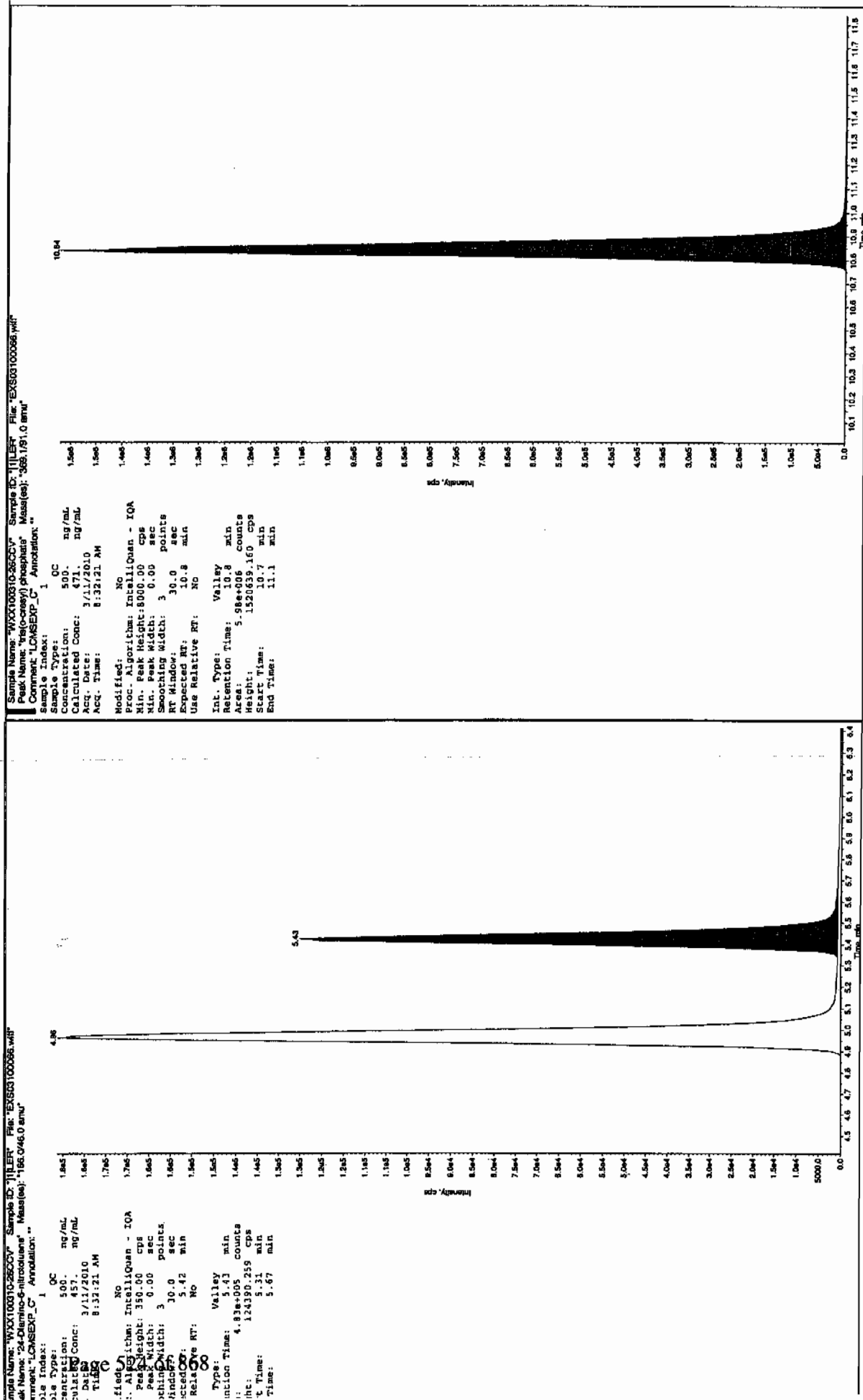
Area: 7.35e+005 counts

Height: 181154.343 cps

Start Time: 4.88 min

End Time: 5.27 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100068.wiff

Analysis Date: 11-MAR-10 09:03

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	93.6	94	
2,6-Diamino-4-nitrotoluene	100	95.6	96	
3,4-Dinitrotoluene	50	47.8	96	
3,5-Dinitroaniline	100	82.2	82	
TATB	100	91.3	91	
tris(o-cresyl) phosphate	100	93.5	94	

Recovery Limits:

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

Other Target Analytes 70-130%

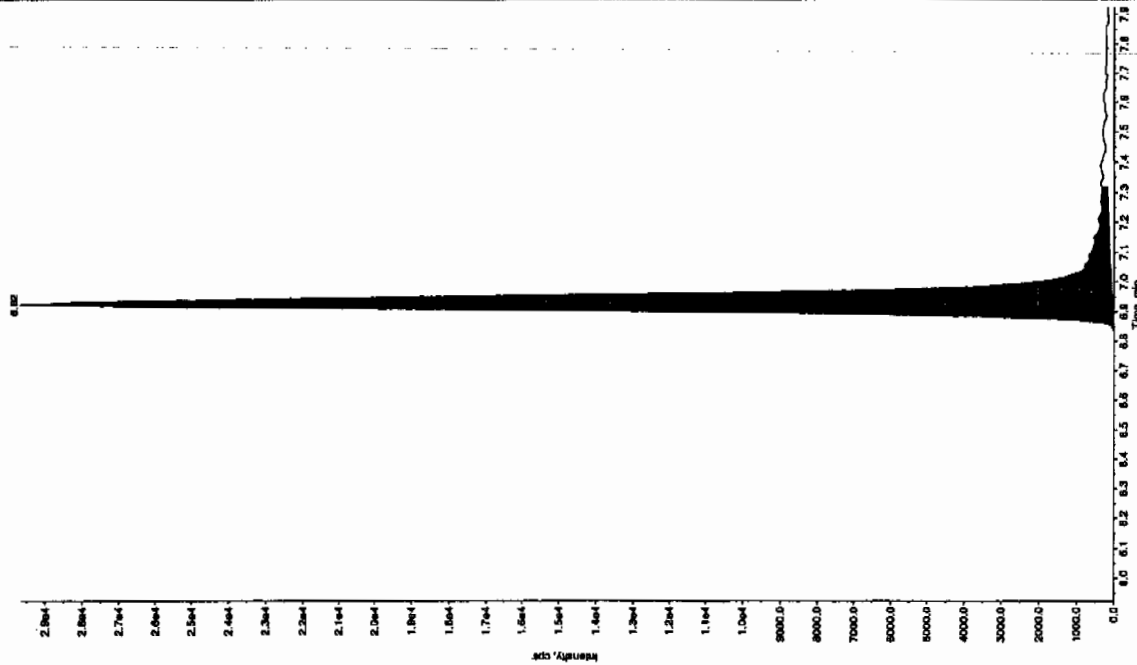
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 3/14/10

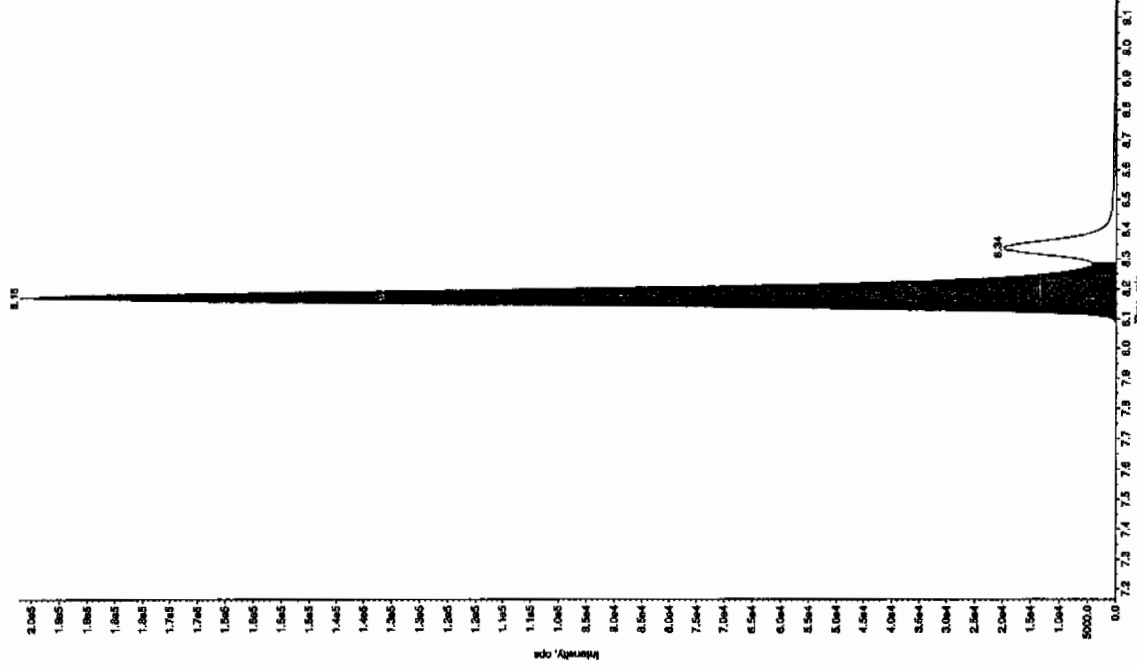
Sample Name: "WXX100310-2709" Sample ID: "JILLER" File: "EX503100068.wif"
 & Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100 ng/mL
 Calculated Conc: 91.3 ng/mL
 Date: 3/11/2010
 Time: 9:03:44 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Peak Width: 0.00 sec
 Chirp Width: 3 points
 Indow: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 6.92 min
 Area: 1.18e+005 counts
 Height: 29509.825 cps
 Start Time: 6.83 min
 End Time: 7.32 min



Sample Name: "WXX100310-2709" Sample ID: "JILLER" File: "EX503100068.wif"
 & Name: "35-Dinitroaniline" Mass(es): "182.0480 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100 ng/mL
 Calculated Conc: 82.7 ng/mL
 Date: 3/11/2010
 Time: 9:03:44 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 8.16 min
 Area: 7.56e+005 counts
 Height: 197009.735 cps
 Start Time: 8.05 min
 End Time: 8.29 min

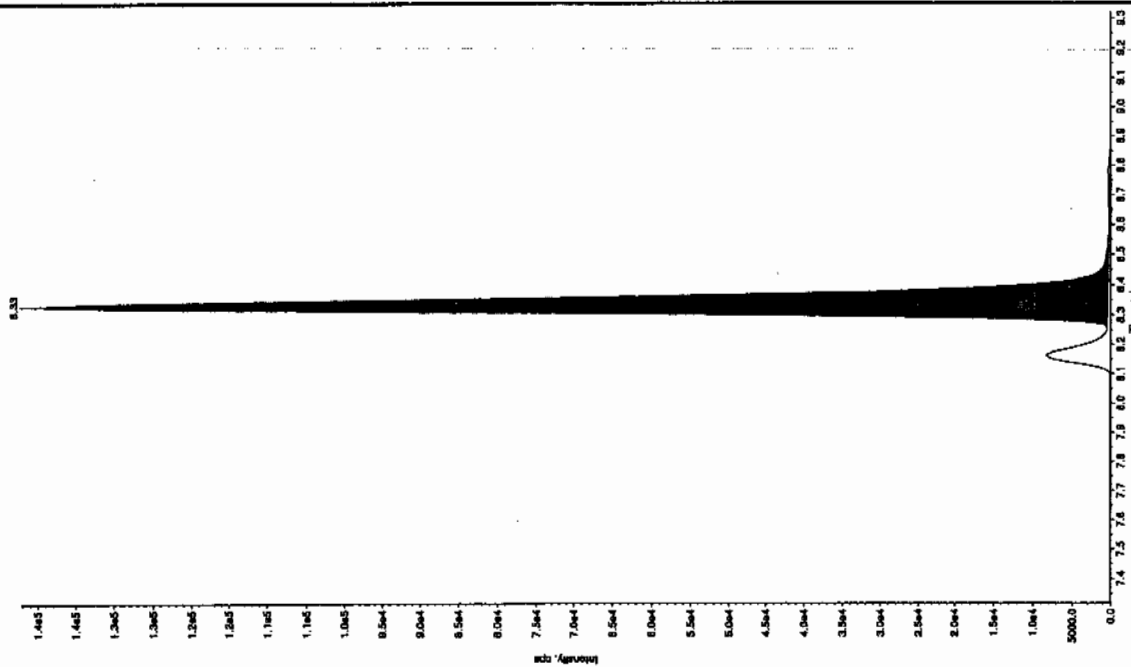


Jan 03/14/10

File Name: "WXX100310-2702" Sample ID: "111ER" File: "EXS03100068.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "182.0751.9 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Calculated Conc: 95.6 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 9:03:44 AM

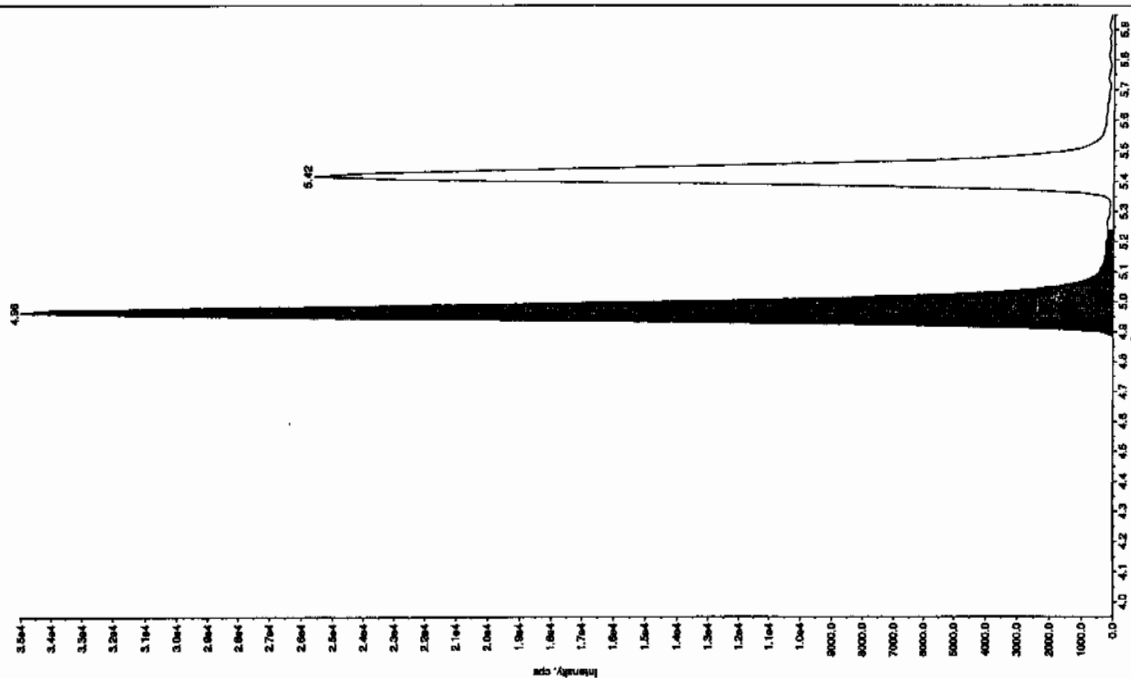
Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Retention Width: 30.0 points
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.46e+005 counts
 Height: 35039.734 cps
 Start Time: 4.87 min
 End Time: 5.24 min



File Name: "WXX100310-2702" Sample ID: "111ER" File: "EXS03100068.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "166.0465.0 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

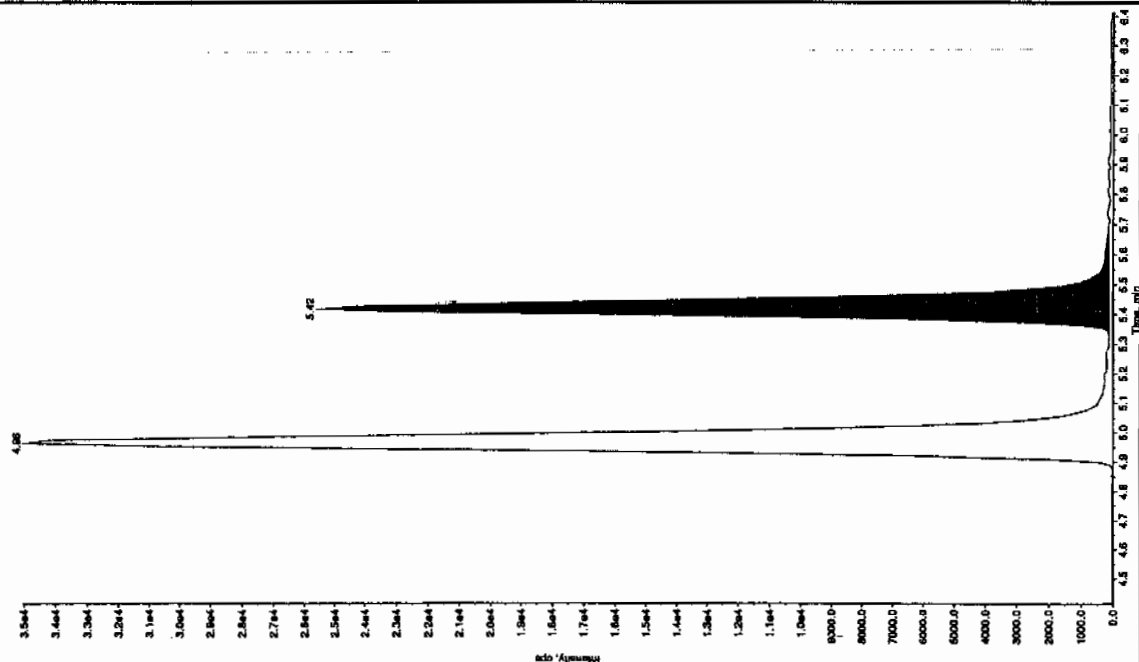
Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Calculated Conc: 95.6 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 9:03:44 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Retention Width: 30.0 points
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.46e+005 counts
 Height: 35039.734 cps
 Start Time: 4.87 min
 End Time: 5.24 min



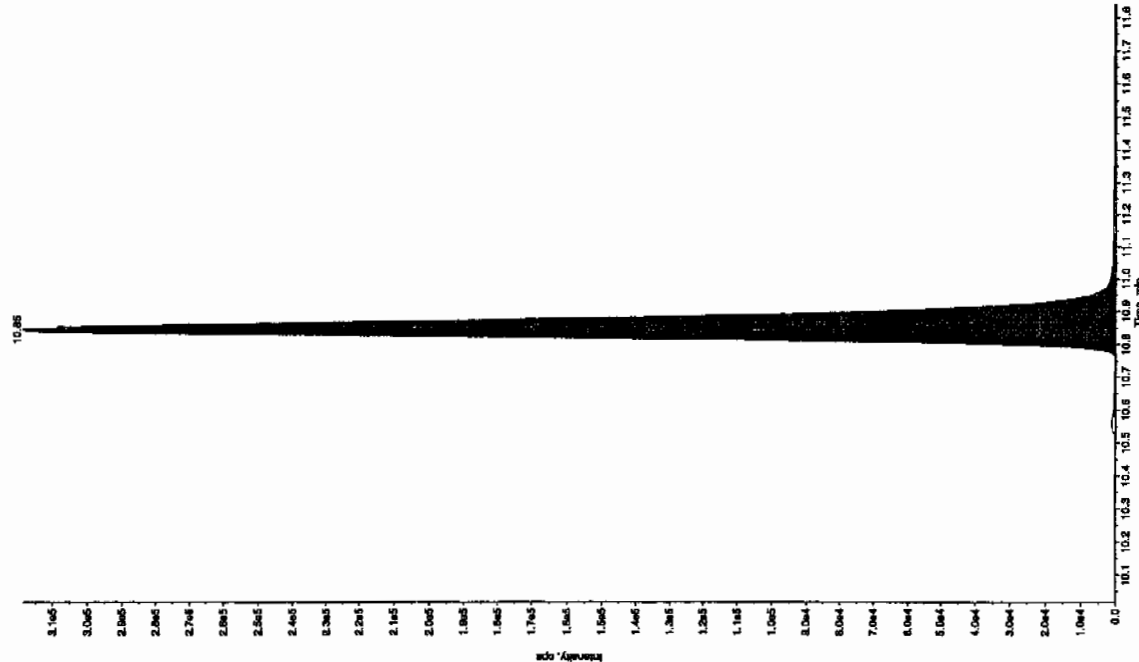
File Name: "WXX100310-27CR1" Sample ID: "11LEP" File: "ES03100688.wif"
 * Name: "24-Diamino-5-nitrofluorene" Mass(es): "166.046.0 amu"
 Title: "LCMS-EXP-C" Annotation: ""

Acq. Type: 1 OC
 Concentration: 100 ng/mL
 Calculated Conc: 93.5 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 9:03:44 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 5.42 min
 Height: 9,894,504 counts
 Area: 25501459 cps
 Start Time: 5.32 min
 End Time: 5.69 min



File Name: "WXX100310-27CR1" Sample ID: "11LEP" File: "ES03100688.wif"
 * Name: "Bis(Octenyl) phosphate" Mass(es): "386.191.0 amu"
 Title: "LCMS-EXP-C" Annotation: ""

Acq. Type: 1 OC
 Concentration: 100 ng/mL
 Calculated Conc: 93.5 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 9:03:44 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 6000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 10.8 min
 Height: 1,396,408 counts
 Area: 318151825 cps
 Start Time: 10.7 min
 End Time: 11.1 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100079.wiff

Analysis Date: 11-MAR-10 11:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	479	96	
2,6-Diamino-4-nitrotoluene	500	499	100	
3,4-Dinitrotoluene	250	252	101	
3,5-Dinitroaniline	500	515	103	
TATB	500	463	93	
tris(o-cresyl) phosphate	500	464	93	

Recovery Limits:

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

Other Target Analytes 80-120%

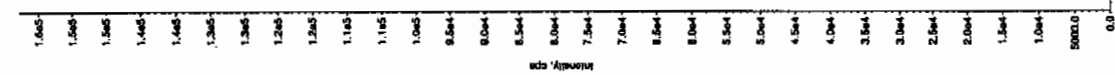
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Lar 3/14/10

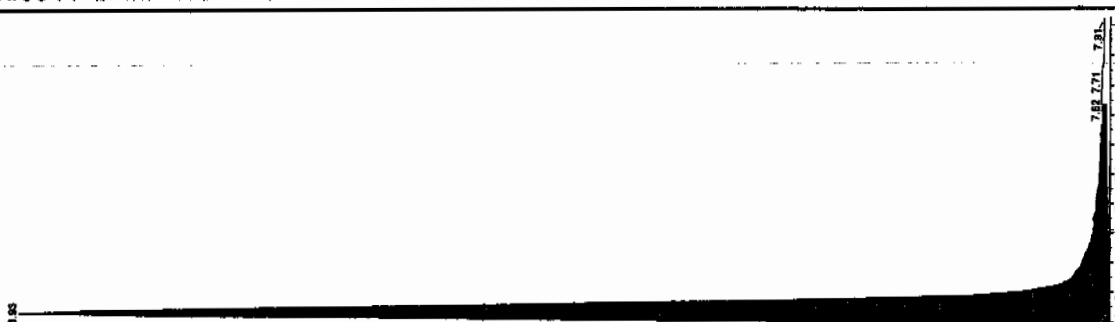
File Name: "WXX100310-250V" Sample ID: "111111" File: "EXS0310079.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSXP_C" Annotation: "

File Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 515 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 11:56:27 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.15 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 3.64e+006 counts
 Height: 930742.249 cps
 Start Time: 8.08 min
 End Time: 8.29 min

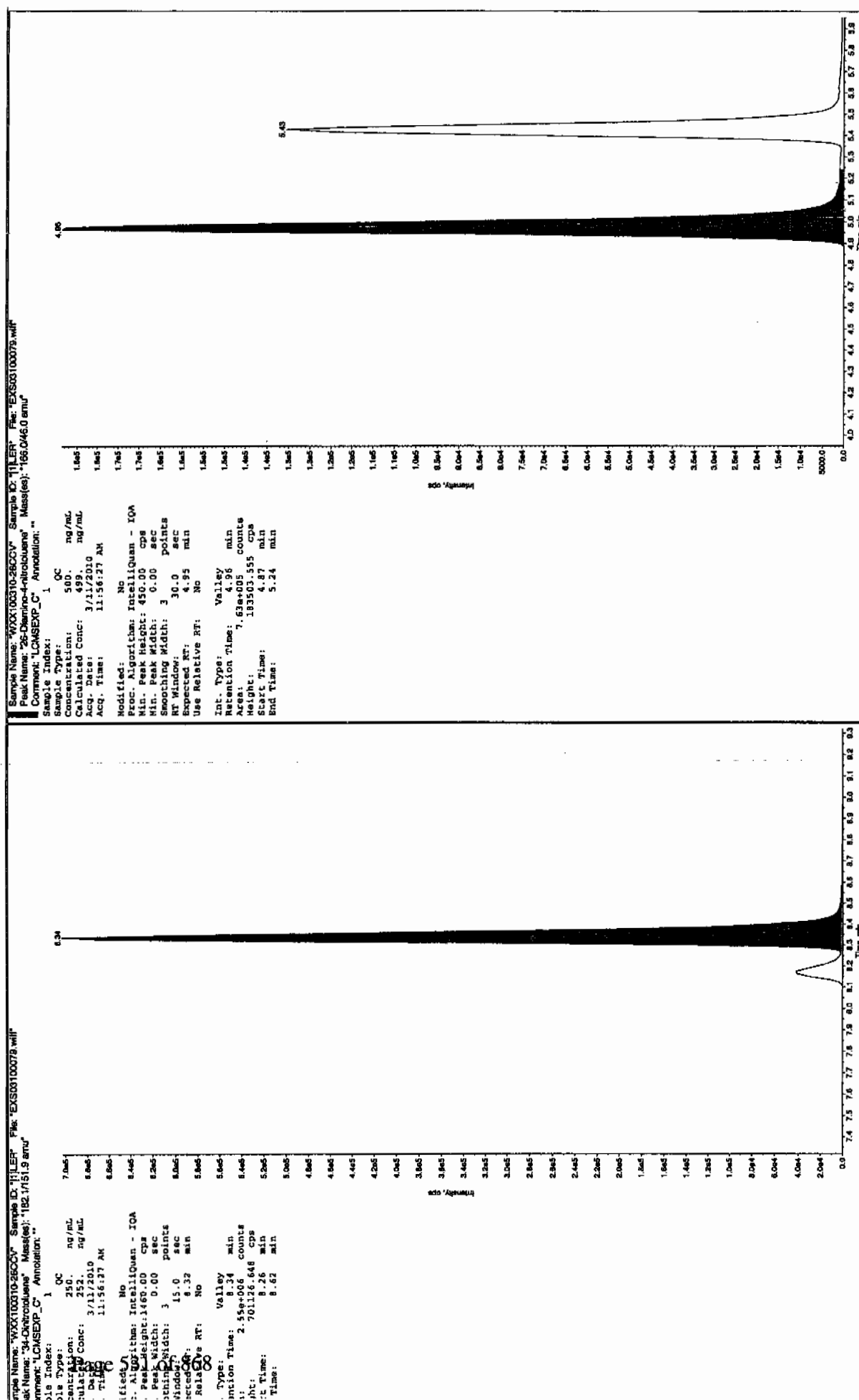


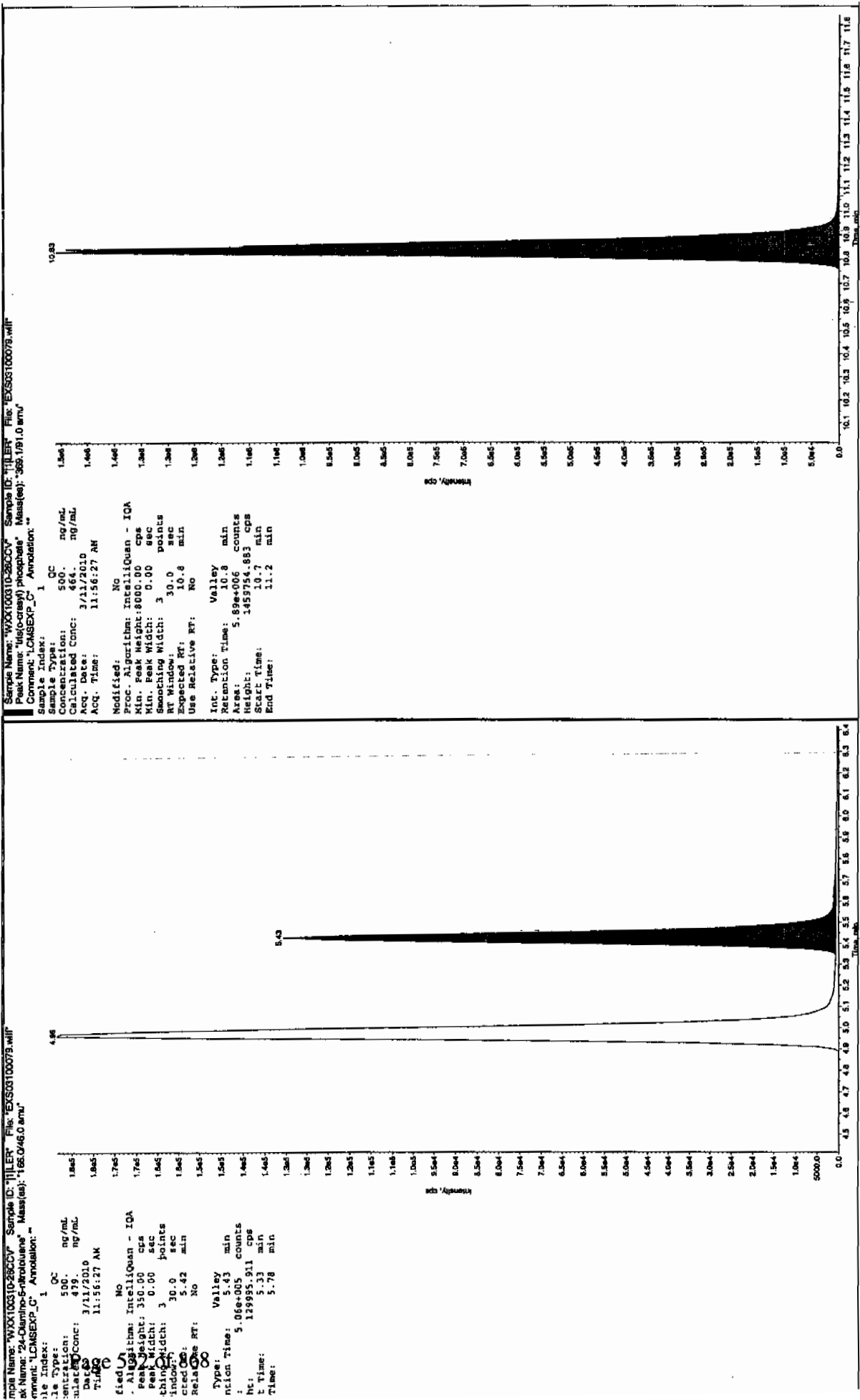
File Name: "WXX100310-250V" Sample ID: "111111" File: "EXS0310079.wif"
 Peak Name: "35-Dinitrophenol" Mass(es): "182.046.0 amu"
 Comment: "LCMSXP_C" Annotation: "

File Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 515 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 11:56:27 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.15 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 3.64e+006 counts
 Height: 930742.249 cps
 Start Time: 8.08 min
 End Time: 8.29 min



4/11/10 03/15/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100081.wiff

Analysis Date: 11-MAR-10 12:27

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	50	49	98	
3,5-Dinitroaniline	100	84.2	84	
TATB	100	92.4	92	
tris(o-cresyl) phosphate	100	93.5	94	
2,4-Diamino-6-nitrotoluene	100	97.2	97	
2,6-Diamino-4-nitrotoluene	100	97.5	98	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 311410

Sample Name: "WXX100310-27CR" Sample ID: "J11ER" File: "EX603100081.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 92.4 ng/mL

Acq. Time: 3/11/2010 12:27:51 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 8.92 min

Use Relative RT: No

Int. Type: Valley

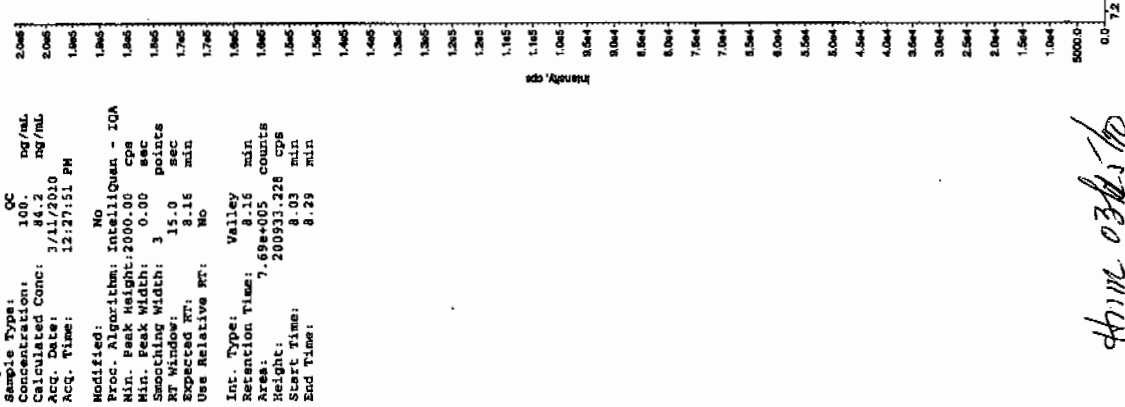
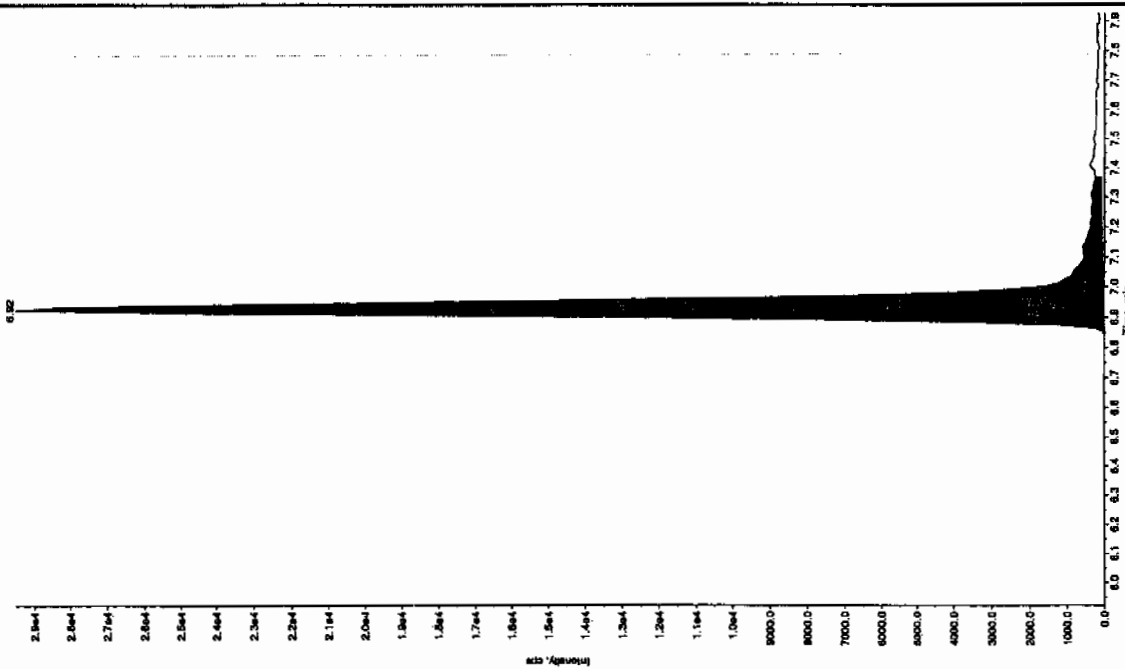
Retention Time: 8.92 min

Area: 1.15e+005 counts

Height: 25524.757 cps

Start Time: 8.83 min

End Time: 7.37 min



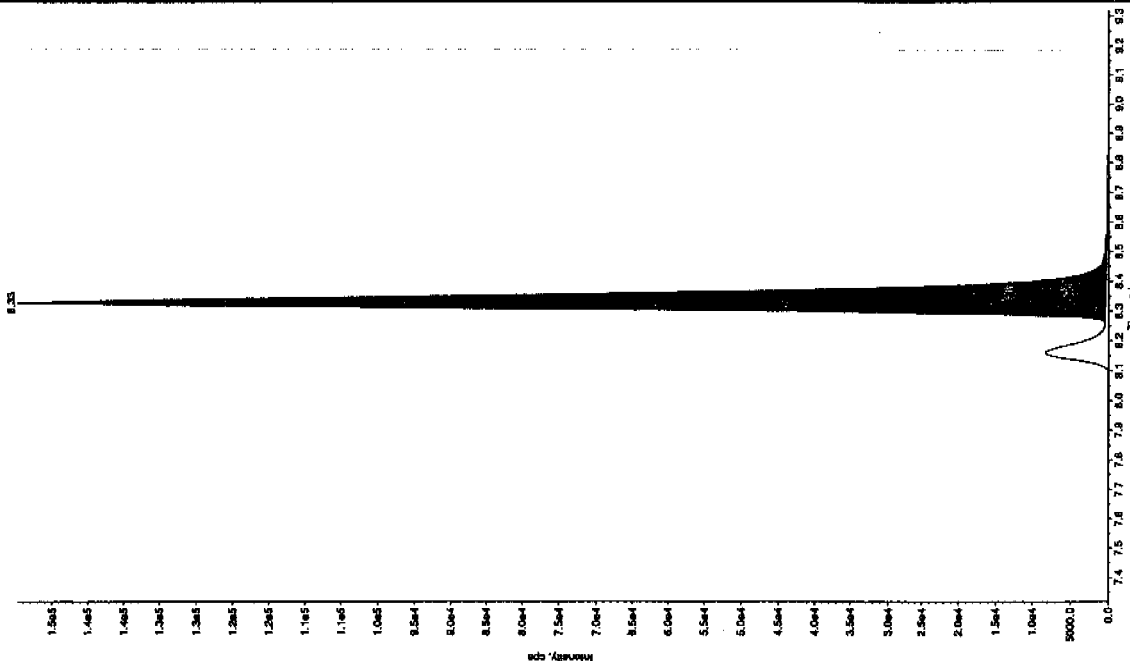
4/11/10 03:45:10

File Name: "WXX100310-27CRF" Sample ID: "11LER" File: "EX503100081.wmf"
 Peak Name: "34-Dinitro-4-nitrobenzene" Mass(es): "162.1751.9 amu"

Sample Index: 1 QC
 Sample Type: 1
 Concentration: 100.0 ng/mL
 Calculated Conc: 97.5 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:27:51 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: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.49e+005 counts
 Height: 36447.231 cps
 Start Time: 4.87 min
 End Time: 5.24 min

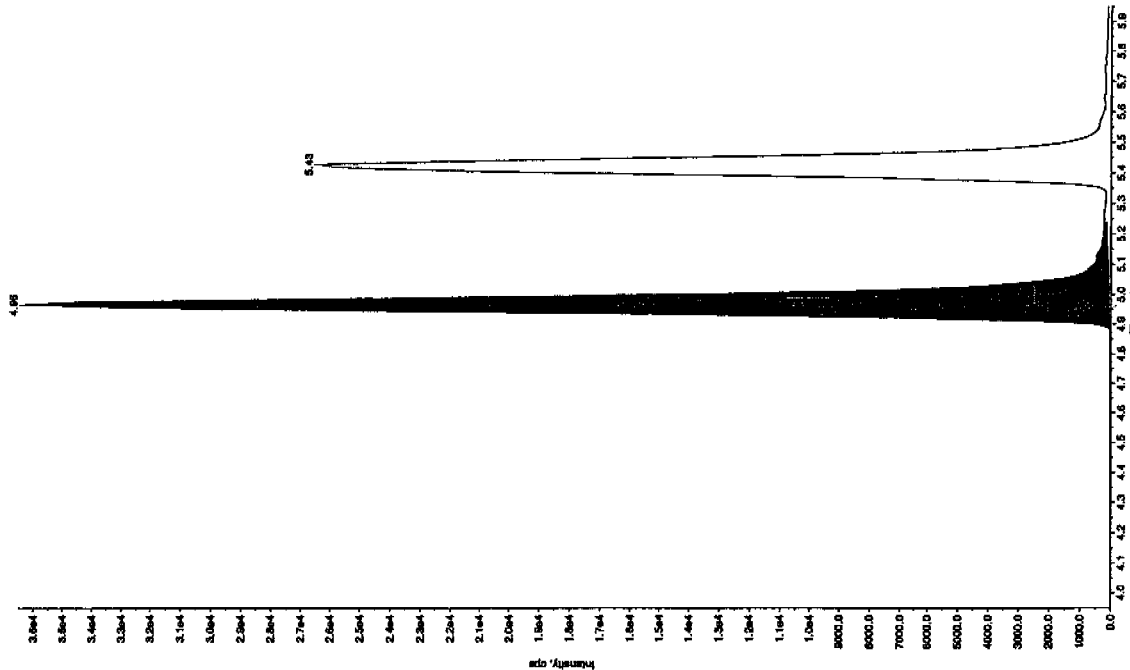
Peak Name: "34-Dinitro-4-nitrobenzene" Mass(es): "162.1751.9 amu"

Sample Index: 1 QC
 Sample Type: 1
 Concentration: 50.0 ng/mL
 Calculated Conc: 49.0 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:27:51 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 160.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 5.26e+005 counts
 Height: 145325.211 cps
 Start Time: 8.26 min
 End Time: 8.61 min



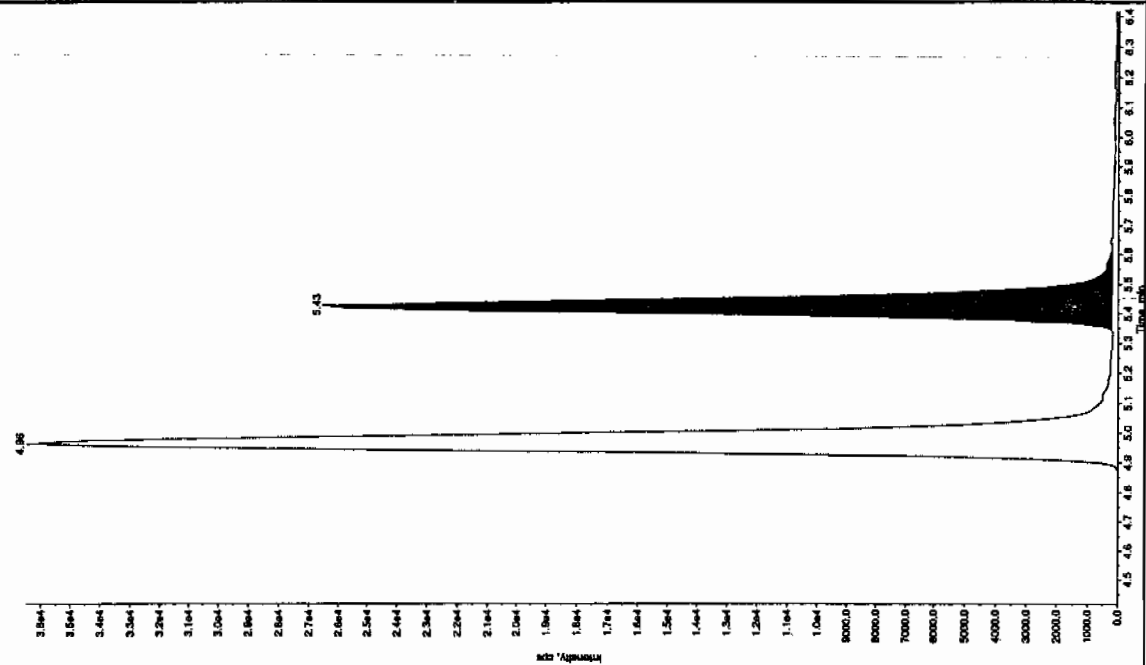
File Name: "WXX100310-27CRF" Sample ID: "11LER" File: "EX503100081.wmf"
 Peak Name: "26-Dinitro-4-nitrobenzene" Mass(es): "160.0460.0 amu"

Sample Index: 1 QC
 Sample Type: 1
 Concentration: 100.0 ng/mL
 Calculated Conc: 97.5 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:27:51 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: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.49e+005 counts
 Height: 36447.231 cps
 Start Time: 4.87 min
 End Time: 5.24 min



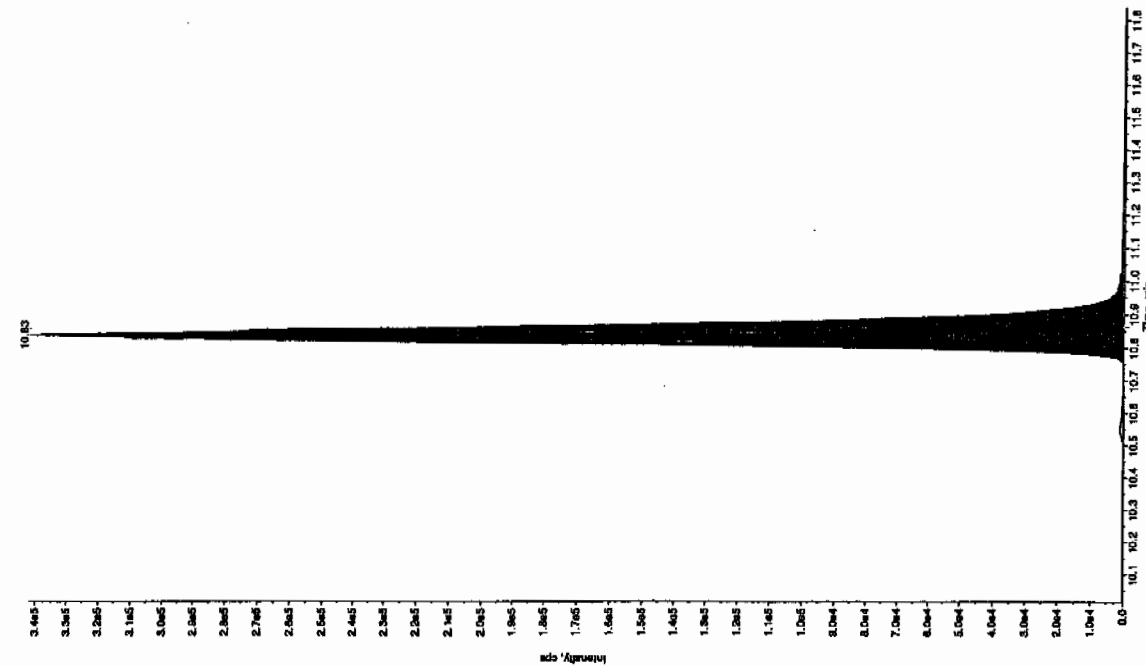
Sample Name: "WXX100310-27CR" Sample ID: "111ER" File: "EXS03100081.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Annotation: "LMSXP_C"

Sample Index: 1
 Sample Type: 100
 Calculated Conc: 97.2 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:27:51 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Min/Sec: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Area: 1.03e+005 counts
 Height: 26360.556 cps
 Start Time: 5.34 min
 End Time: 5.52 min



Sample Name: "WXX100310-27CR" Sample ID: "111ER" File: "EXS03100081.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Annotation: "LMSXP_C"

Sample Index: 1
 Sample Type: 100
 Calculated Conc: 97.2 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:27:51 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Min/Sec: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.28e+006 counts
 Height: 34150.006 cps
 Start Time: 10.7 min
 End Time: 11.1 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100092.wiff

Analysis Date: 11-MAR-10 15:20

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	488	98	
2,6-Diamino-4-nitrotoluene	500	475	95	
3,4-Dinitrotoluene	250	260	104	
3,5-Dinitroaniline	500	540	108	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	461	92	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

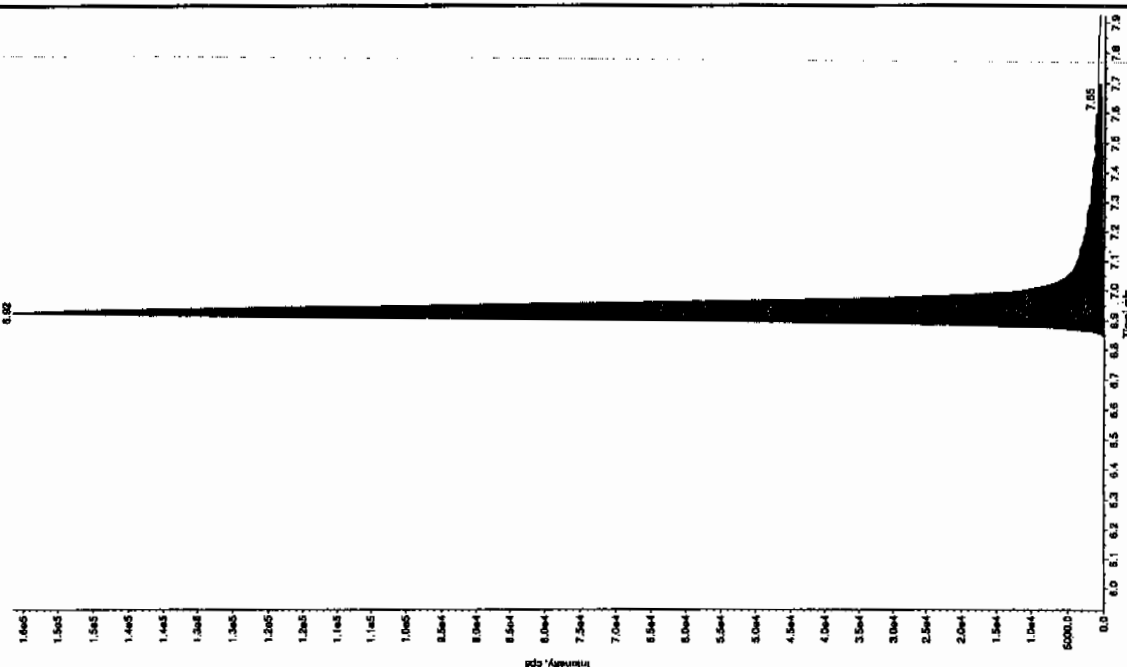
for 3/14/10

File Name: "W00100310-280CV" Sample ID: "HLEP" File: "EXS0100092.wif"
 Comment: "LCMSEXP_C" Annotation: ""
 Sample Index: 1

Sample Type: QC
 Concentration: 500 ng/mL
 Concentrated Conc: 470 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:40:35 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Width: 2500.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.92 min
 Area: 6.71e+005 counts
 Height: 156559.967 cps
 Start Time: 6.83 min
 End Time: 7.00 min

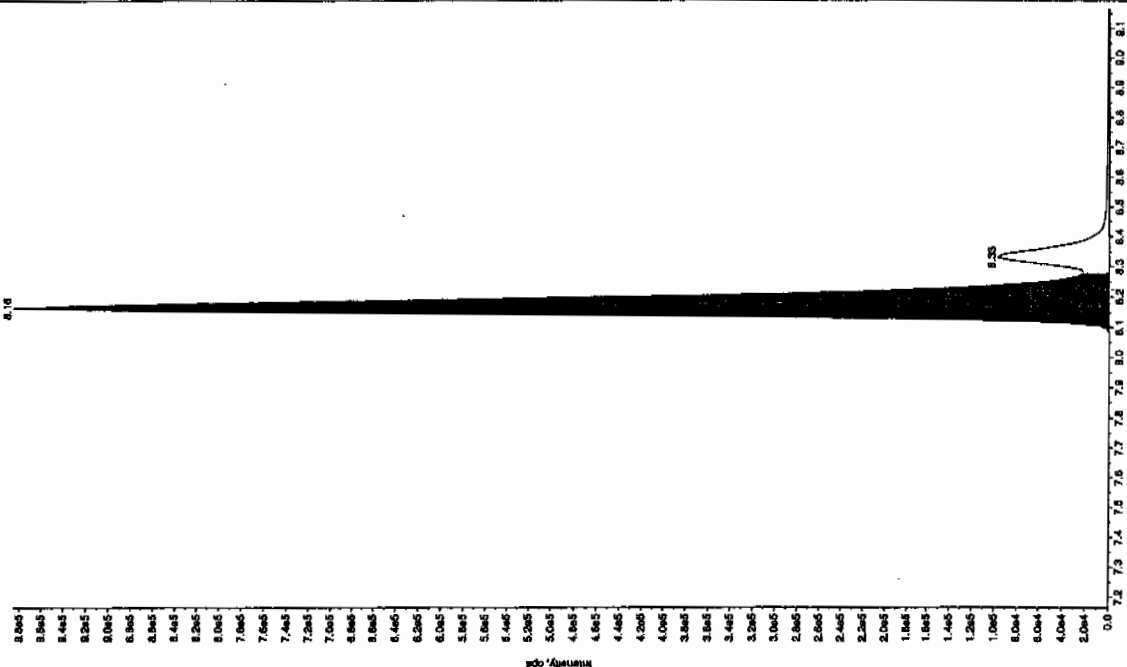


File Name: "W00100310-280CV" Sample ID: "HLEP" File: "EXS0100092.wif"
 Comment: "LCMSEXP_C" Annotation: ""
 Sample Index: 1

Sample Type: QC
 Concentration: 500 ng/mL
 Concentrated Conc: 470 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:40:35 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Width: 2000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.15 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.15 min
 Area: 1.80e+006 counts
 Height: 985013.916 cps
 Start Time: 8.07 min
 End Time: 8.28 min



Handwritten note: 3/14/10

Sample Name: "WXX100310-260CV" Sample ID: "111ER" File: "EX503100092.wif"

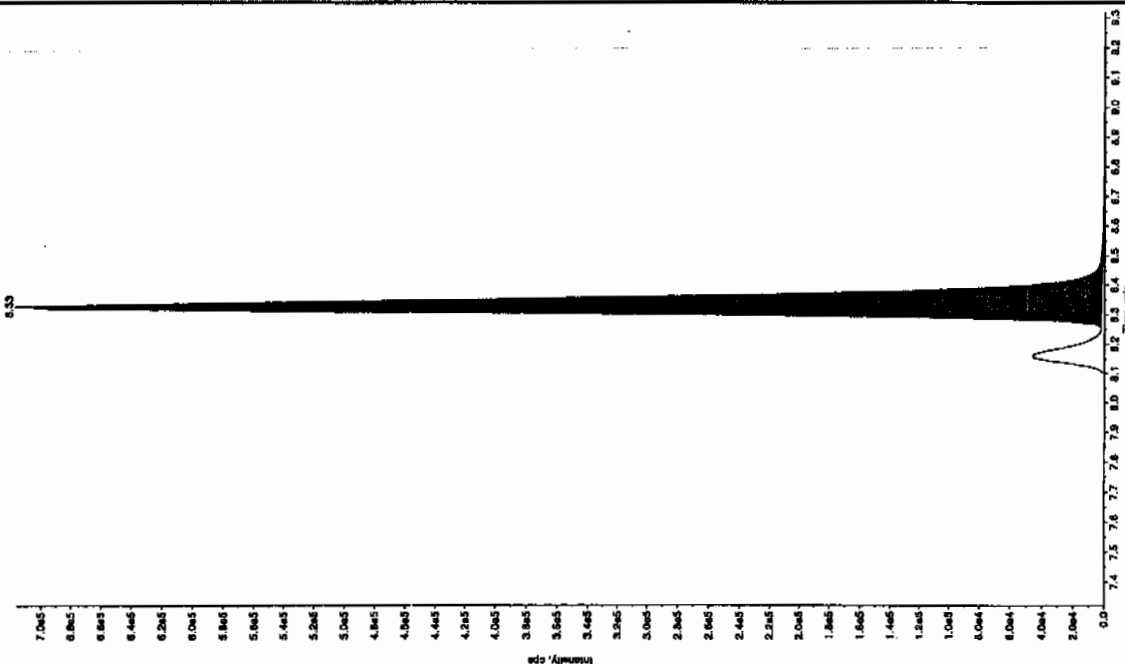
Peak Name: "34-Dinitrobenzene" Mass(es): "182.1/151.9 amu"

Method: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 250. ng/mL
 Date: 3/11/2010
 Acq. Time: 3:20:35 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: 8.32 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.62e+006 counts
 Height: 713975.891 cps
 Start Time: 8.26 min
 End Time: 8.58 min



Sample Name: "WXX100310-260CV" Sample ID: "111ER" File: "EX503100092.wif"

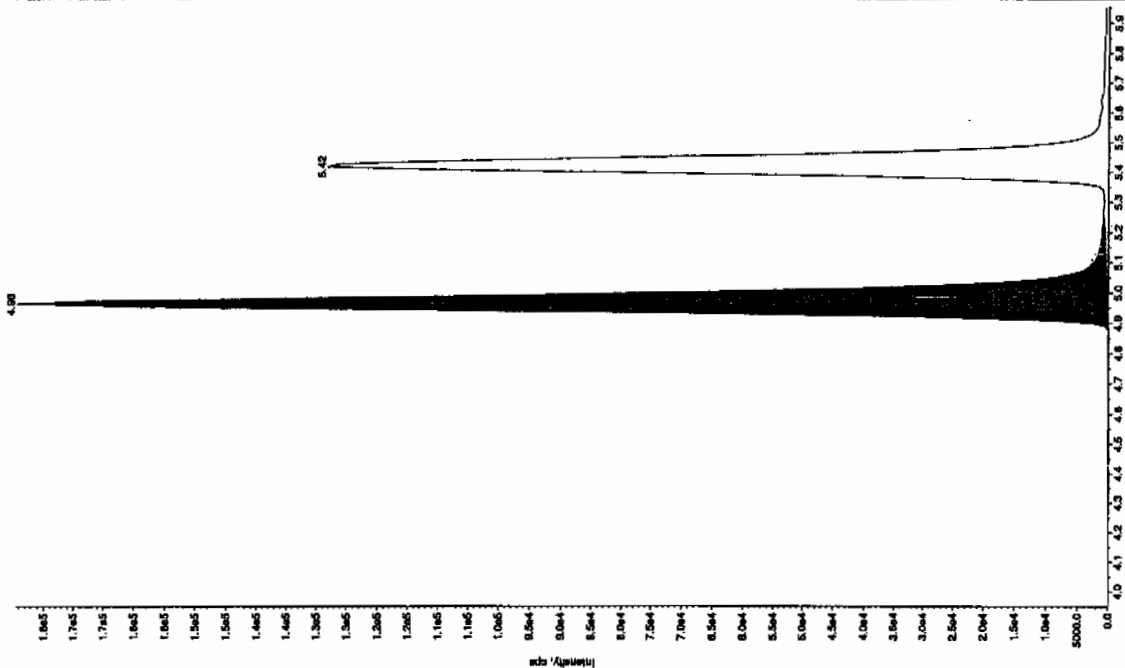
Peak Name: "26-Dinitro-4-Nitrofluorene" Mass(es): "166.0/45.0 amu"

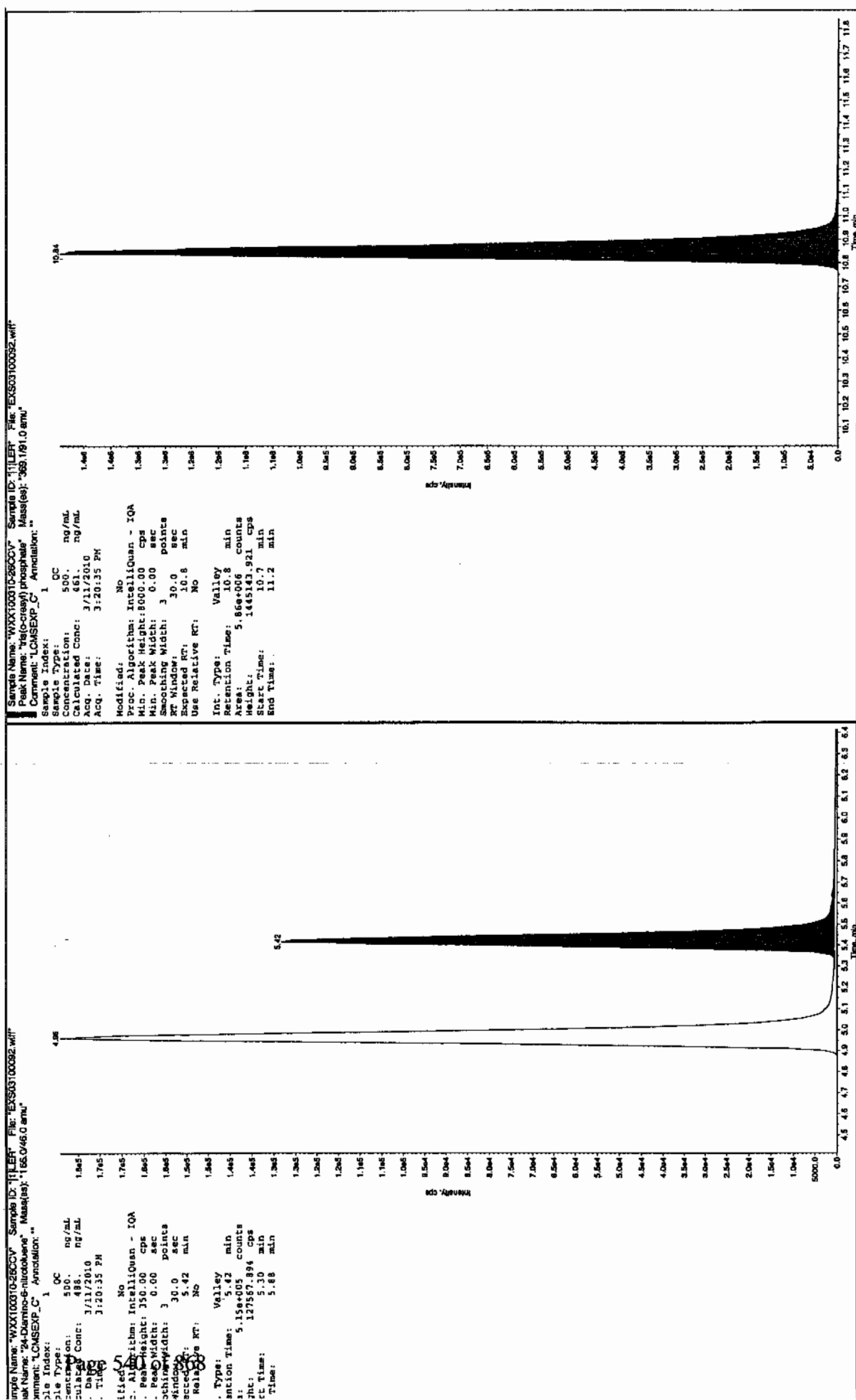
Method: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 475. ng/mL
 Date: 3/11/2010
 Acq. Time: 3:20:35 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: 4.95 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 4.96 min
 Area: 7.27e+003 counts
 Height: 179221.359 cps
 Start Time: 4.87 min
 End Time: 5.25 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100094.wiff

Analysis Date: 11-MAR-10 15:51

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	90.1	90	
2,6-Diamino-4-nitrotoluene	100	94.6	95	
3,4-Dinitrotoluene	50	48.1	96	
3,5-Dinitroaniline	100	87.8	88	
TATB	100	89.8	90	
tris(o-cresyl) phosphate	100	91.8	92	

Recovery Limits:

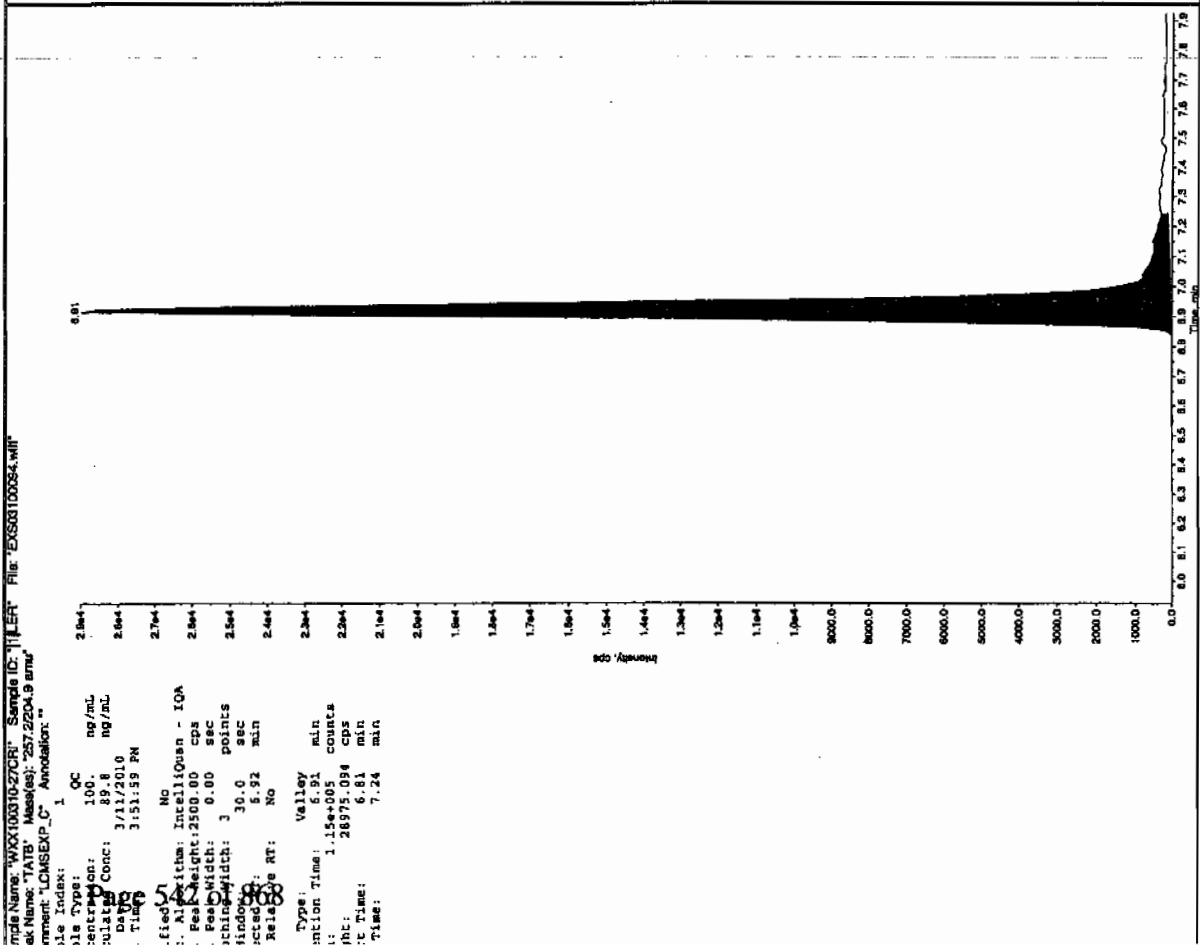
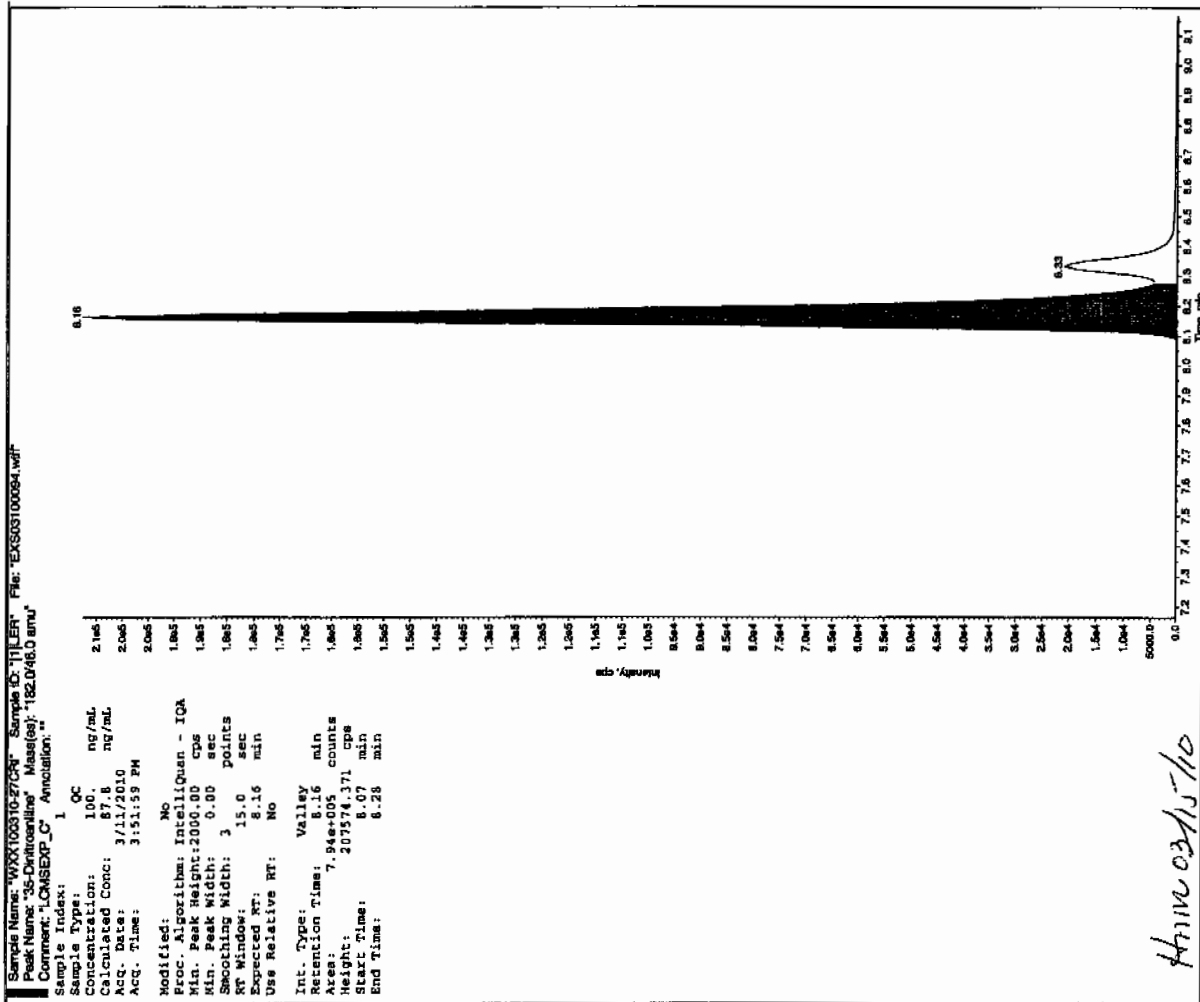
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

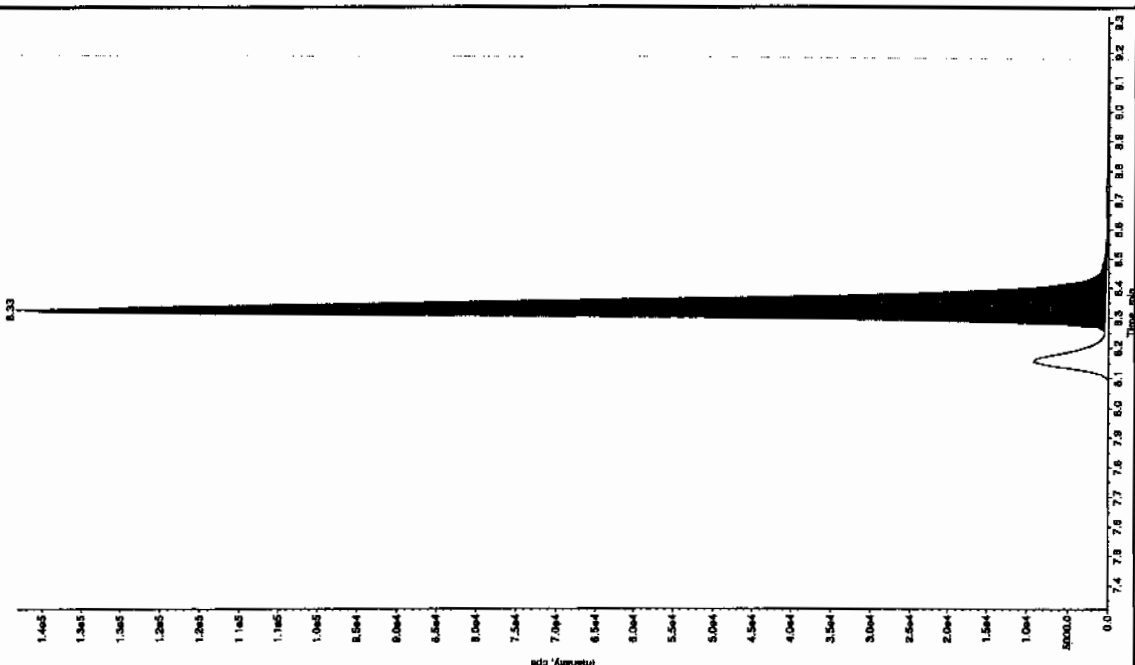
* Value outside of Recovery Limits

Run 3/14/10



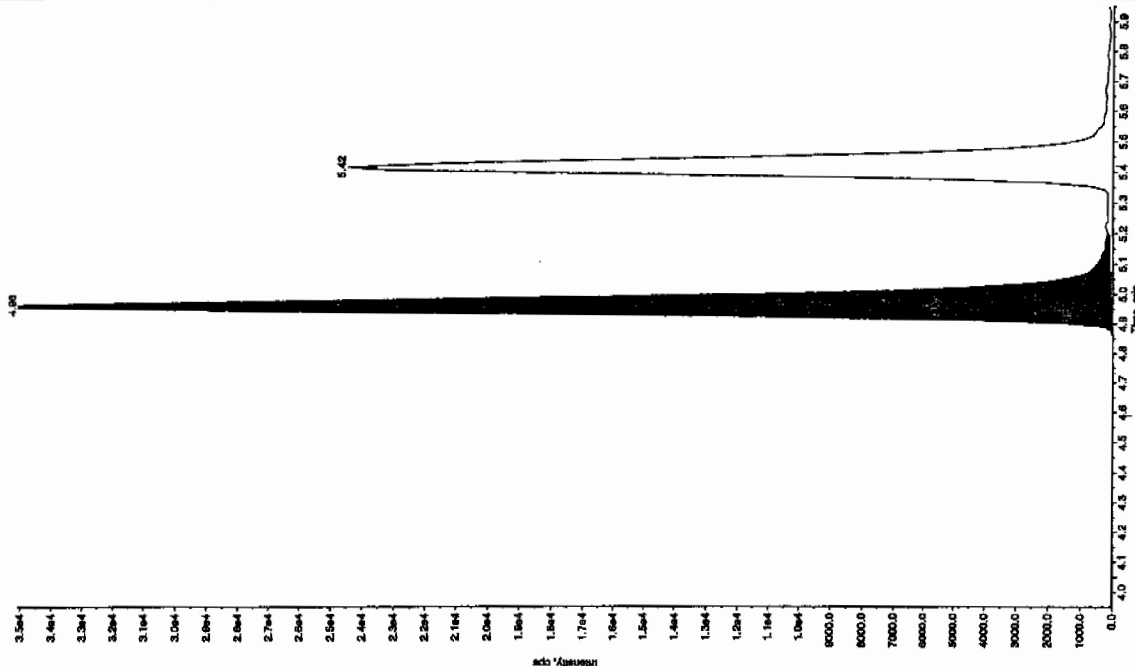
Sample Name: "WXX100310-270R" Sample ID: "11LER" File: "EXS03100094.wht"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.8 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 48.1 ng/mL
 Date: 3/11/2010
 Acq. Time: 3:51:59 PM
 Modified: No
 Proc. Method: InertialQuan - IQA
 Peak Width: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 5.17e+005 counts
 Height: 137839.188 cps
 Start Time: 8.26 min
 End Time: 8.60 min



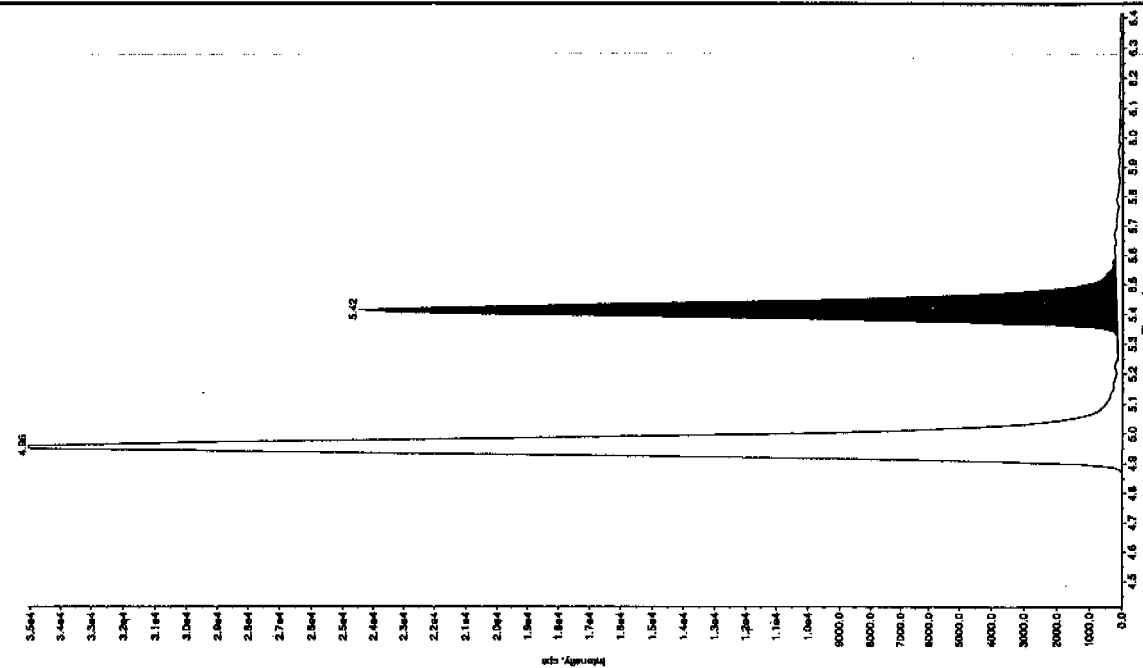
Sample Name: "WXX100310-270R" Sample ID: "11LER" File: "EXS03100094.wht"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.0/166.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 94.6 ng/mL
 Date: 3/11/2010
 Acq. Time: 3:51:59 PM
 Modified: No
 Proc. Method: InertialQuan - IQA
 Peak Width: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.45e+005 counts
 Height: 35026.691 cps
 Start Time: 4.85 min
 End Time: 5.20 min



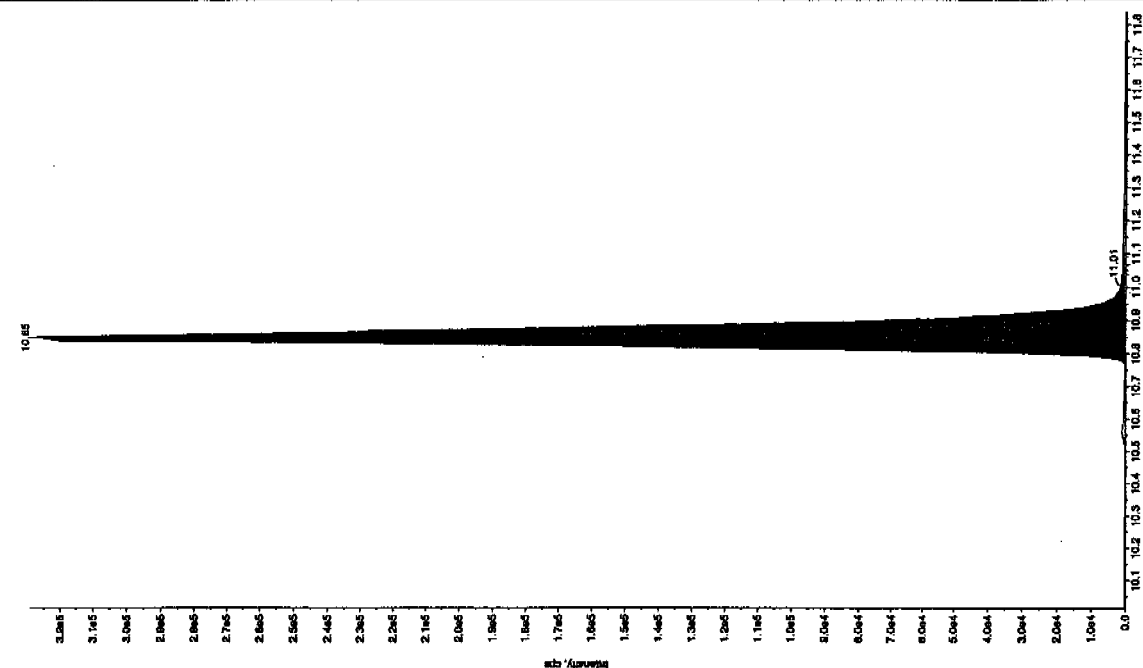
File Name: "WXX100310-27CR" Sample ID: "11LER" File: "EX503100304.wif"
 Peak Name: "24-Dimethyloctadecene" Mass(es): "160.046.0 amu"
 Comment: "LONSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Sample Conc: 100 ng/mL
 Calculated Conc: 91.8 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:51:59 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 3.52e+004 counts
 Height: 44293.383 cps
 Start Time: 5.26 min
 End Time: 5.61 min



Sample Name: "WXX100310-27CR" Sample ID: "11LER" File: "EX503100304.wif"
 Peak Name: "triso-cresyl phosphate" Mass(es): "358.191.0 amu"
 Comment: "LONSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Sample Conc: 100 ng/mL
 Calculated Conc: 91.8 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 3:51:59 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.27e+006 counts
 Height: 32893.087 cps
 Start Time: 10.6 min
 End Time: 11.1 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100103.wiff

Analysis Date: 11-MAR-10 18:13

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	499	100	
2,6-Diamino-4-nitrotoluene	500	493	99	
3,4-Dinitrotoluene	250	258	103	
3,5-Dinitroaniline	500	527	105	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	467	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

Before Jan 31/10

Sample Name: "WXX100310-280CV" Sample ID: "111ER" File: "EX803100103.wif"

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

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 473. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.92 min

Use Relative RT: No

Int. Type: Valley

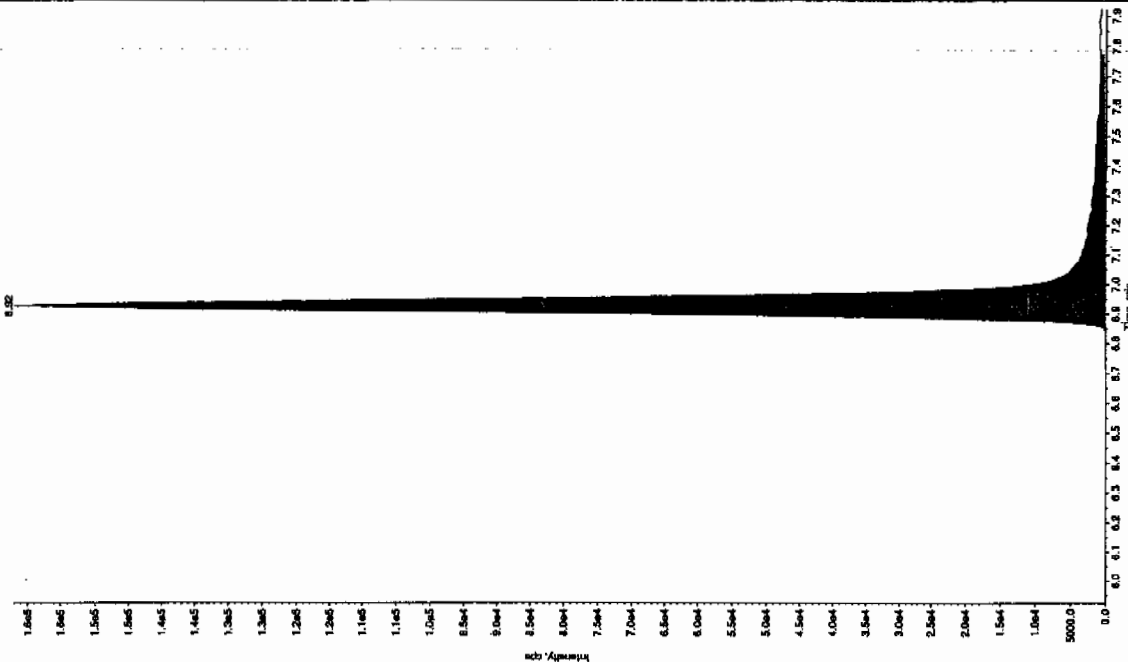
Retention Time: 6.92 min

Area: 6.72e+005 counts

Height: 16190.011 cps

Start Time: 6.82 min

End Time: 7.77 min



Sample Name: "WXX100310-280CV" Sample ID: "111ER" File: "EX803100103.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/166.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 512. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Valley

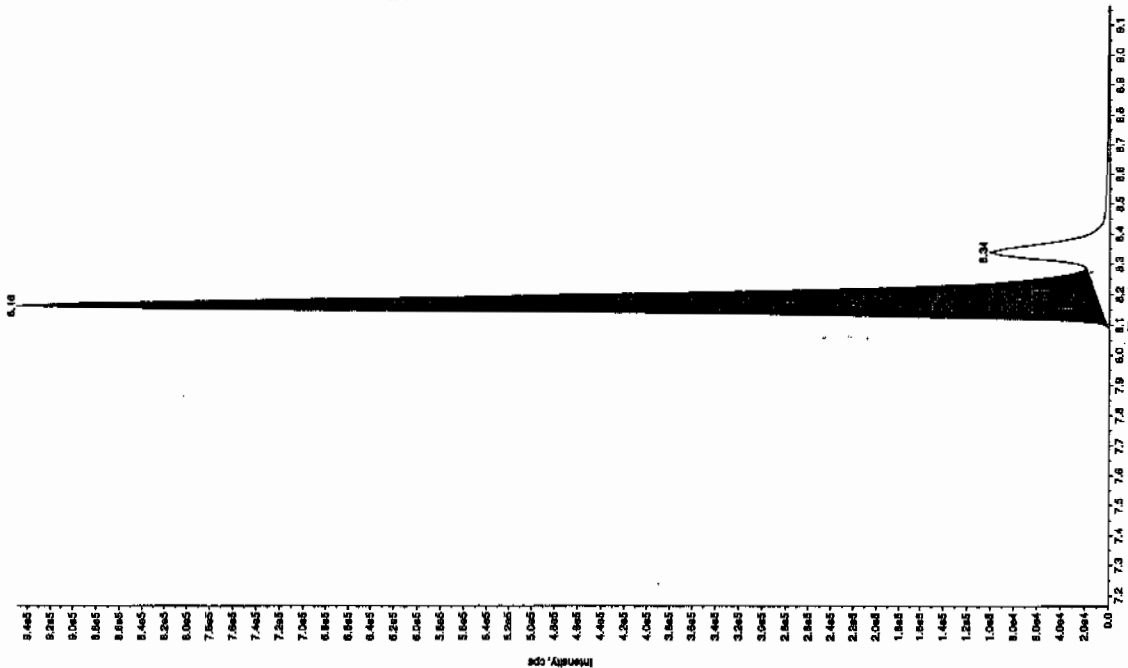
Retention Time: 8.16 min

Area: 3.62e+006 counts

Height: 941751.038 cps

Start Time: 8.09 min

End Time: 8.29 min



After 03/15/10

after Jan 3/14/10

Sample Name: "WXX100310-280CV" Sample ID: "JILER" File: "EX650100103.will"

Peak Name: "TAIB" Mass(es): "257.2204.9 amu"

Comment: "LCMSXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 473. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: No

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Manual

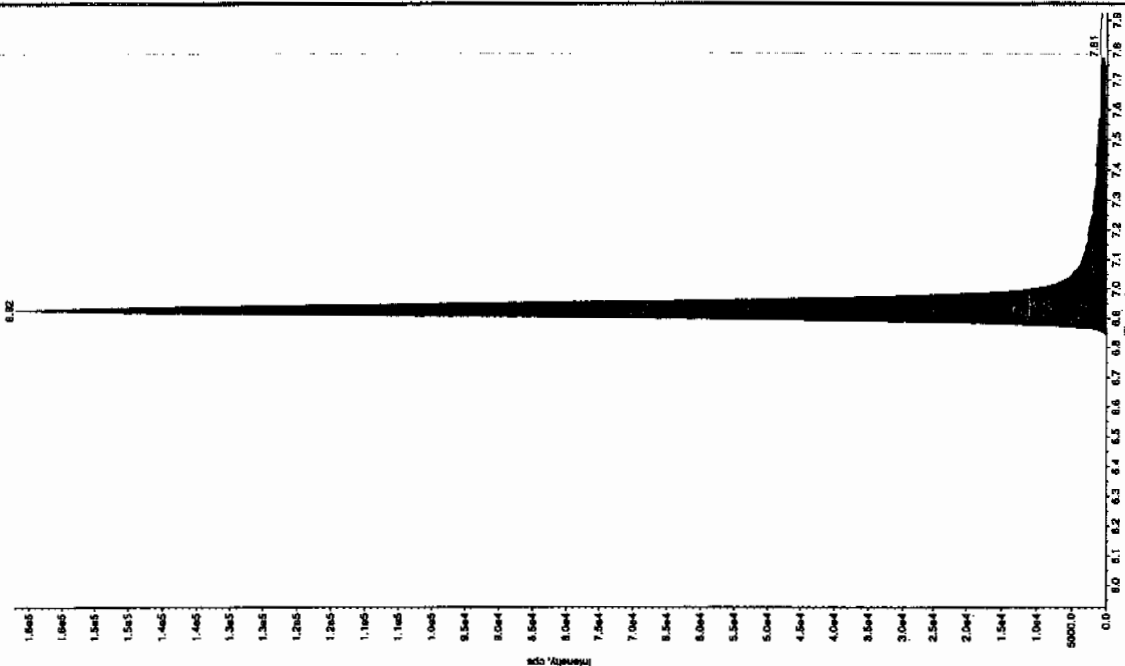
Retention Time: 8.17 min

Area: 3.71e+006 counts

Height: 851287.743 cps

Start Time: 8.09 min

End Time: 8.29 min



Sample Name: "WXX100310-280CV" Sample ID: "JILER" File: "EX650100103.will"

Peak Name: "TAIB" Mass(es): "257.2204.9 amu"

Comment: "LCMSXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 473. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: No

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Manual

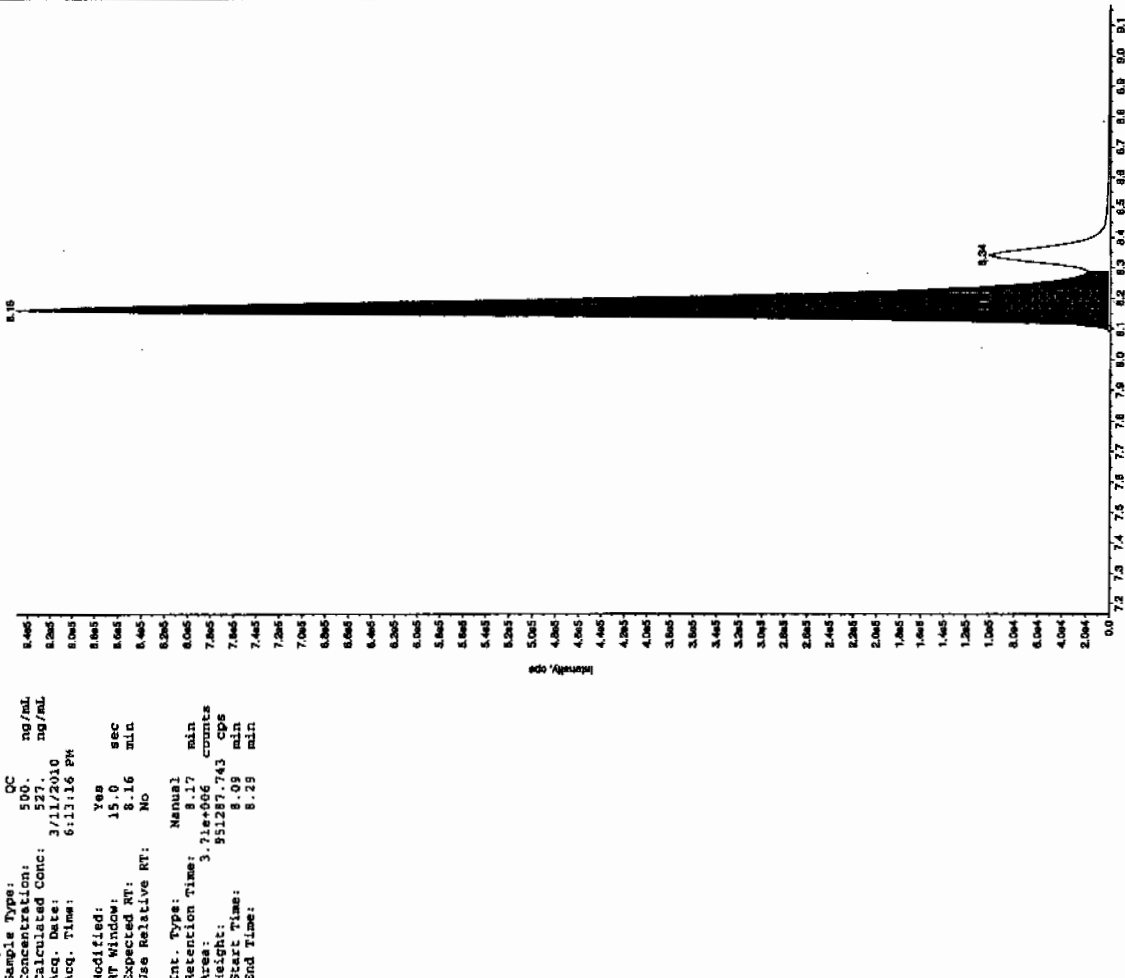
Retention Time: 8.17 min

Area: 3.71e+006 counts

Height: 851287.743 cps

Start Time: 8.09 min

End Time: 8.29 min



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

Sample Name: "WYX100310-280CV" Sample ID: "11111" File: "EXS03100103.wif"

Peak Name: "34-Diethyltoluene" Mass(es): "182.1715.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 250. ng/mL

Calculated Conc: 250. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 8:13:16 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: 8.32 min

Use Relative RT: No

Int. Type: Valley

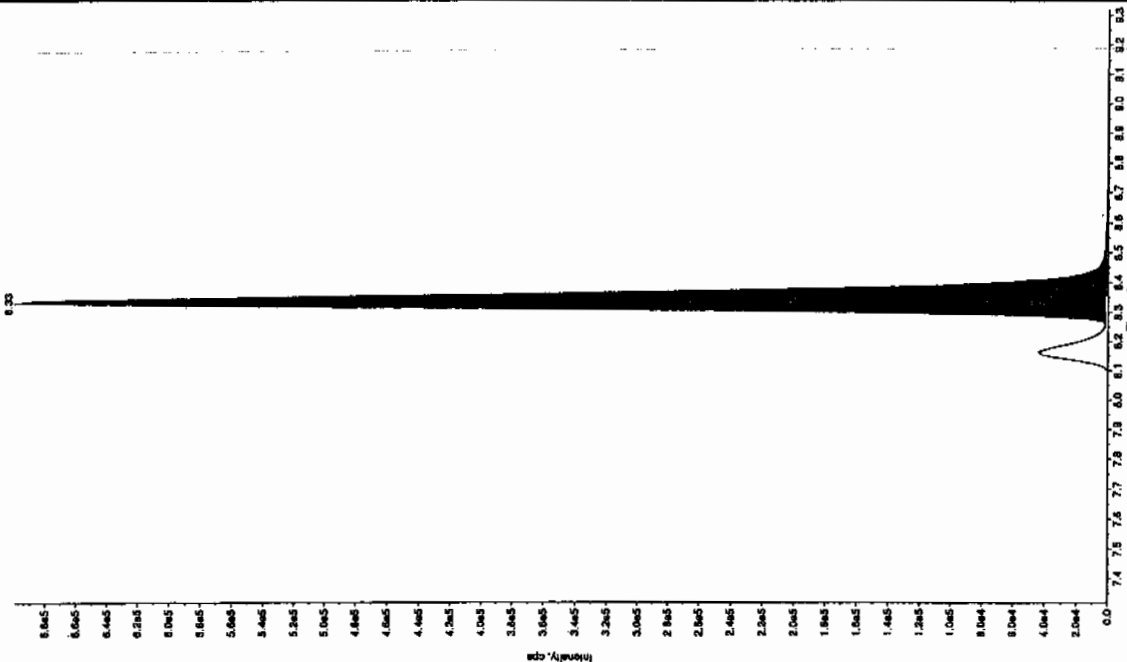
Retention Time: 8.33 min

Area: 2.60e+006 counts

Height: 597189.465 cps

Start Time: 8.28 min

End Time: 8.66 min



Sample Name: "WYX100310-280CV" Sample ID: "11111" File: "EXS03100103.wif"

Peak Name: "25-Diethyltoluene" Mass(es): "156.048.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 493. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 8:13:16 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: 4.95 min

Use Relative RT: No

Int. Type: Valley

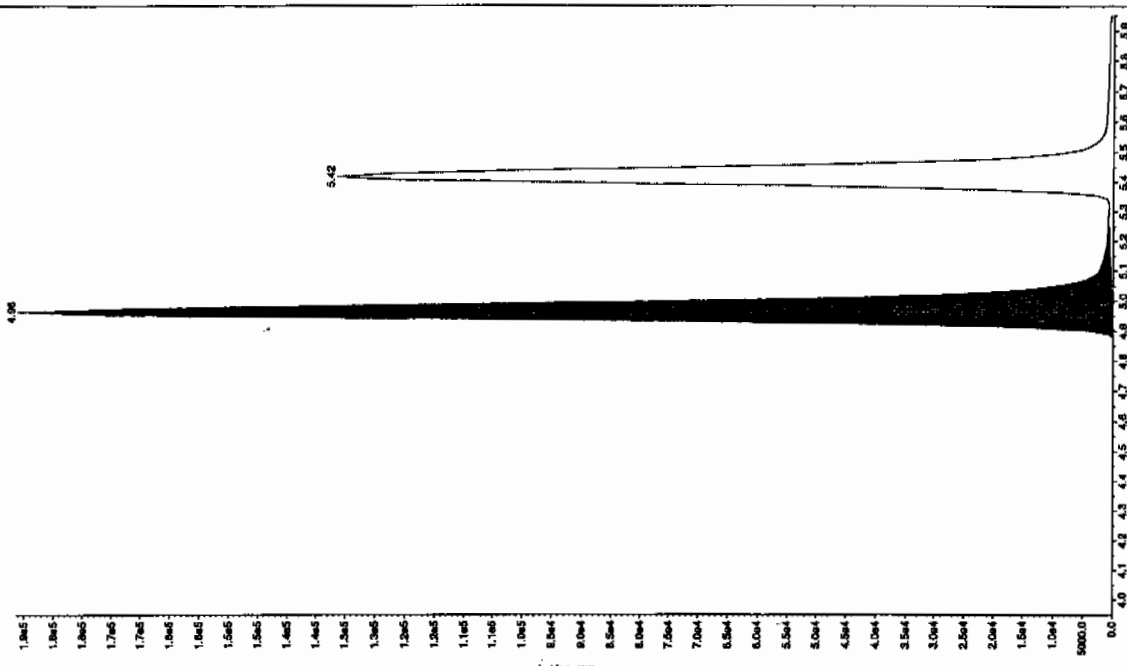
Retention Time: 4.96 min

Area: 7.55e+005 counts

Height: 186099.518 cps

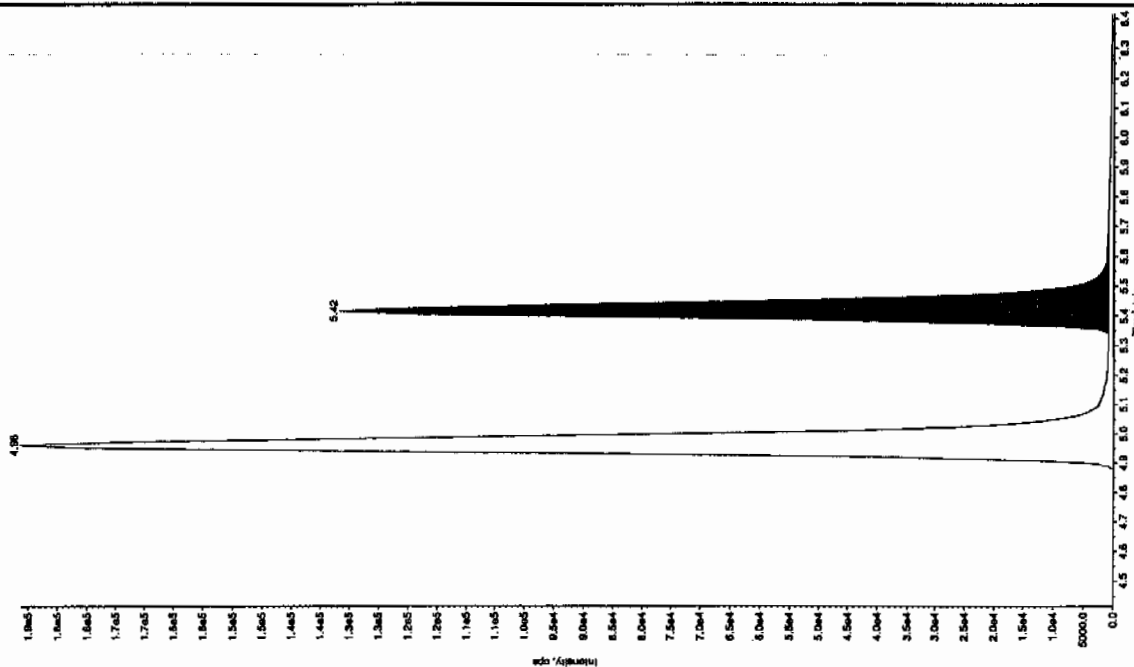
Start Time: 4.87 min

End Time: 5.25 min



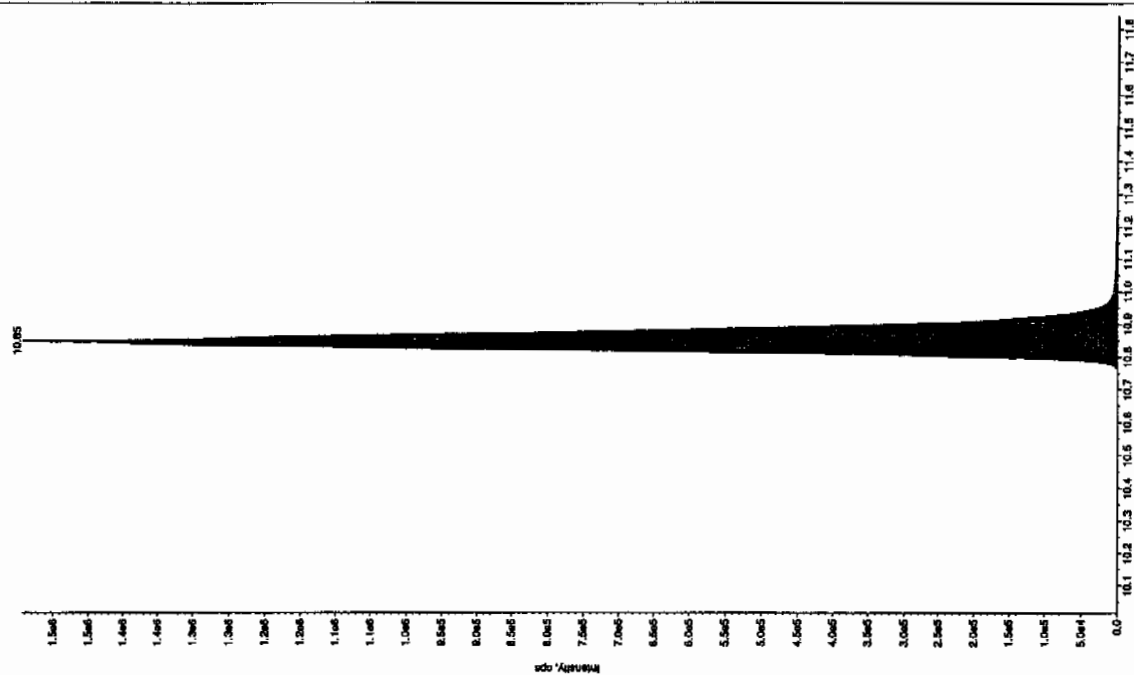
Sample Name: "WXX100310-2800" Sample ID: "JL1ER" File: "EXS03100103.wif"
 Peak Name: "24-Diamino-5-nitrophenol" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: 500
 Concentration: 500 ng/mL
 Calculated Conc: 499 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:11:16 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 5.27e+005 counts
 Height: 130849.045 cps
 Start Time: 5.32 min
 End Time: 5.54 min



Sample Name: "WXX100310-2800" Sample ID: "JL1ER" File: "EXS03100103.wif"
 Peak Name: "bis(o-cresyl) phosphite" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: 500
 Concentration: 500 ng/mL
 Calculated Conc: 497 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 6:11:16 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 5.93e+006 counts
 Height: 156379.810 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1864

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03100105.wiff

Analysis Date: 11-MAR-10 18:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	98.1	98	
2,6-Diamino-4-nitrotoluene	100	102	102	
3,4-Dinitrotoluene	50	47.4	95	
3,5-Dinitroaniline	100	86.9	87	
TATB	100	90	90	
tris(o-cresyl) phosphate	100	91.7	92	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

200 3/14/10

Sample Name: "WXX100310-272.R" Sample ID: "111111" File: "EX503100105.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMS EXP_C" Annotation: "

Sample Index: 1

Concentration: 100. ng/mL

Calculated Conc: 90.0 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:44:00 PM

Modified: NO

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Width: 0.00 sec

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.92 min

Use Relative RT: NO

Int. Type: Valley

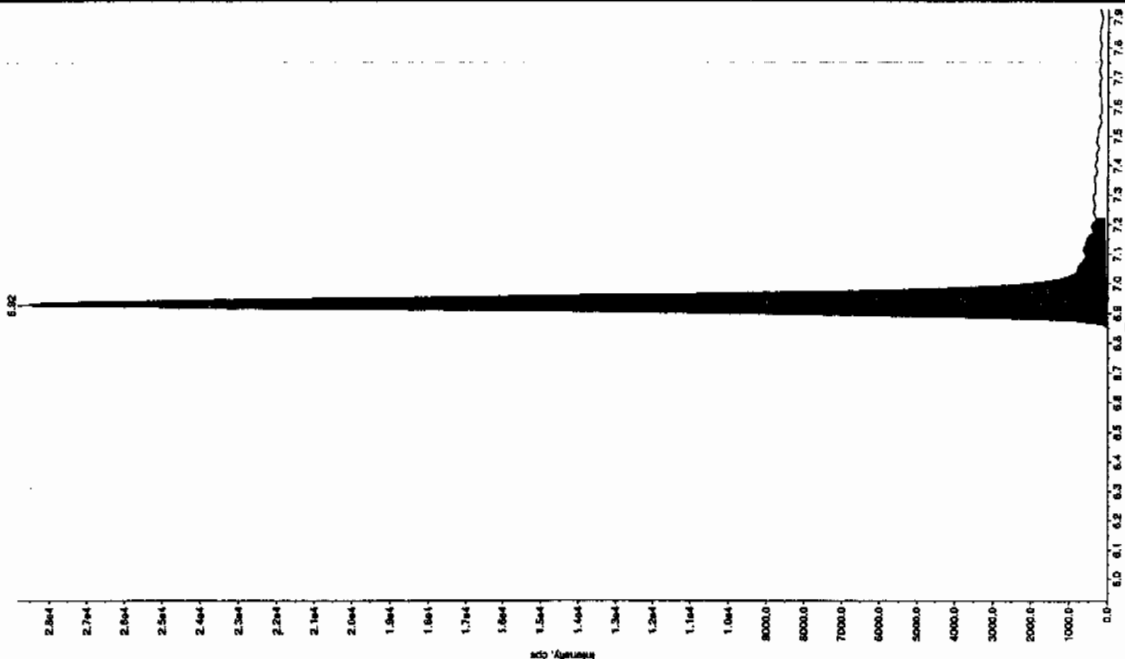
Retention Time: 6.92 min

Area: 1.16e+005 counts

Height: 28811.375 cps

Start Time: 6.84 min

End Time: 7.22 min



Sample Name: "WXX100310-272.R" Sample ID: "111111" File: "EX503100105.wif"

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

Comment: "LCMS EXP_C" Annotation: "

Sample Index: 1

Concentration: 100. ng/mL

Calculated Conc: 86.9 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:44:40 PM

Modified: NO

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Width: 0.00 sec

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.15 min

Use Relative RT: NO

Int. Type: Valley

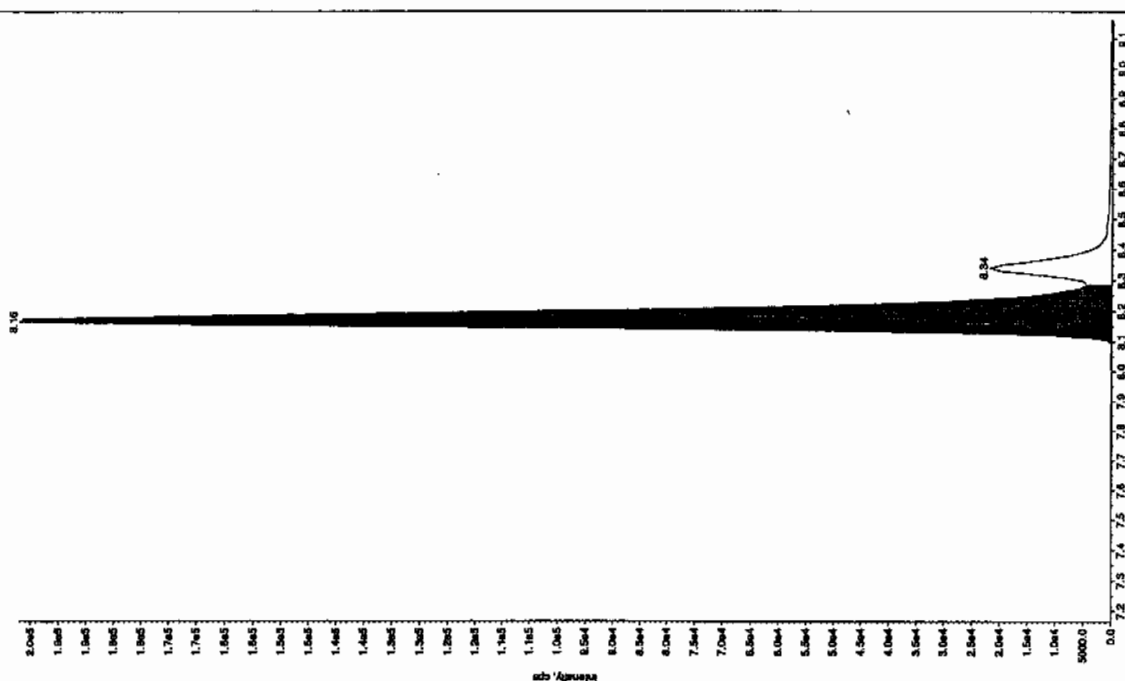
Retention Time: 8.15 min

Area: 7.88e+005 counts

Height: 197062.973 cps

Start Time: 8.05 min

End Time: 8.29 min



Amw 03/15/10

Sample Name: "WXX1001010-27C1" Sample ID: "1111" File: "EX603100105.wif"

Peak Name: "34-Chlorotoluene" Mass(es): "182.1751.9 amu"

Comment: "LORSEXP_C" Annotation: "

Sample Index: 1

Sample Name: "WXX1001010-27C1"

Concentration: 100. ng/mL

Calculated Conc: 102. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:44:40 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 450.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

SR Window: 30.0 sec

Expected RT: 4.95 min

Use Relative RT: No

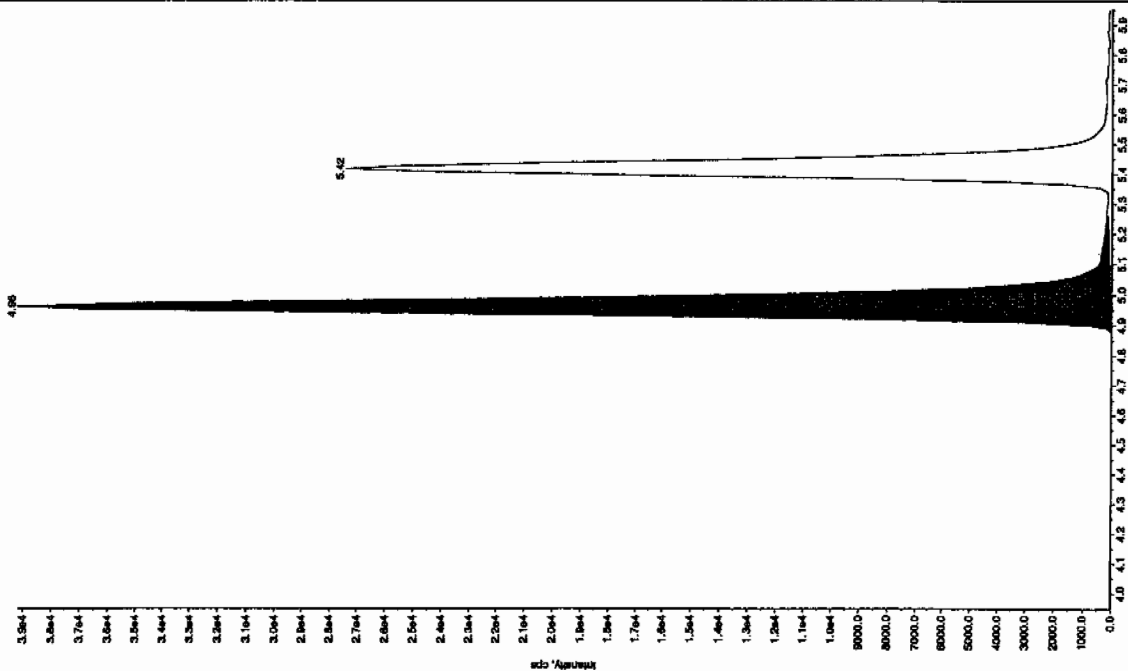
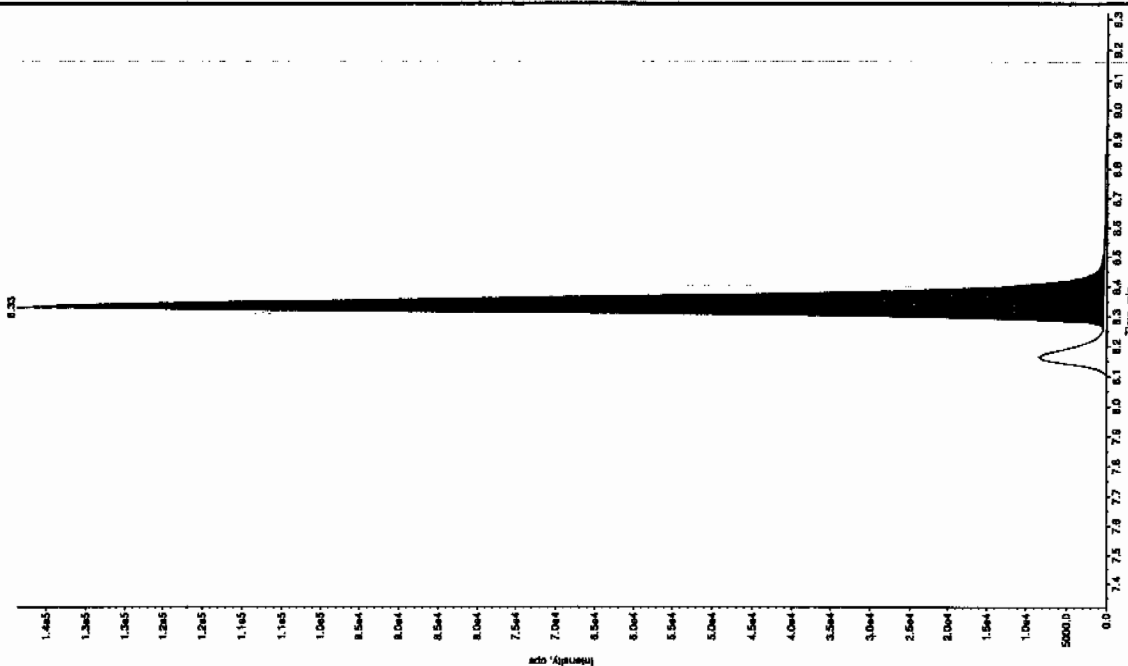
Int. Type: Valley

Retention Time: 4.96 min

Height: 1.51e+005 counts

Start Time: 39103.901 sec

End Time: 4.87 min



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

Sample Name: "WXX100310-27C9" Sample ID: "HLEP" File: "EX503100105.wif"

Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.0465.0 amu"

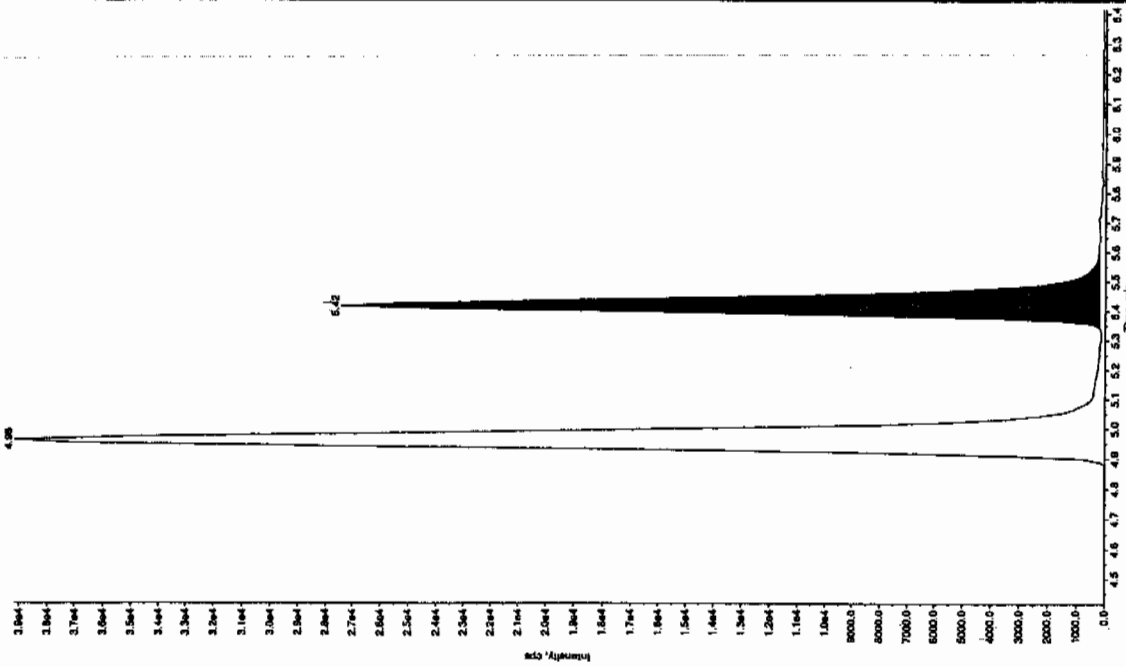
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC
Concentration: 100 ng/mL
Calculated Conc: 91.7 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 6:44:40 PM

Modified: No
Proc Algorithm: IntelliQuan - IQA
Min. Peak Height: 8000 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Xr Window: 30.0 sec
Expected RT: 5.42 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.42 min
Area: 1.04e+005 counts
Height: 27178.761 cps
Start Time: 5.34 min
End Time: 5.60 min



Sample Name: "WXX100310-27C9" Sample ID: "HLEP" File: "EX503100105.wif"

Peak Name: "10-(o-cresyl) phosphate" Mass(es): "356.1971.0 amu"

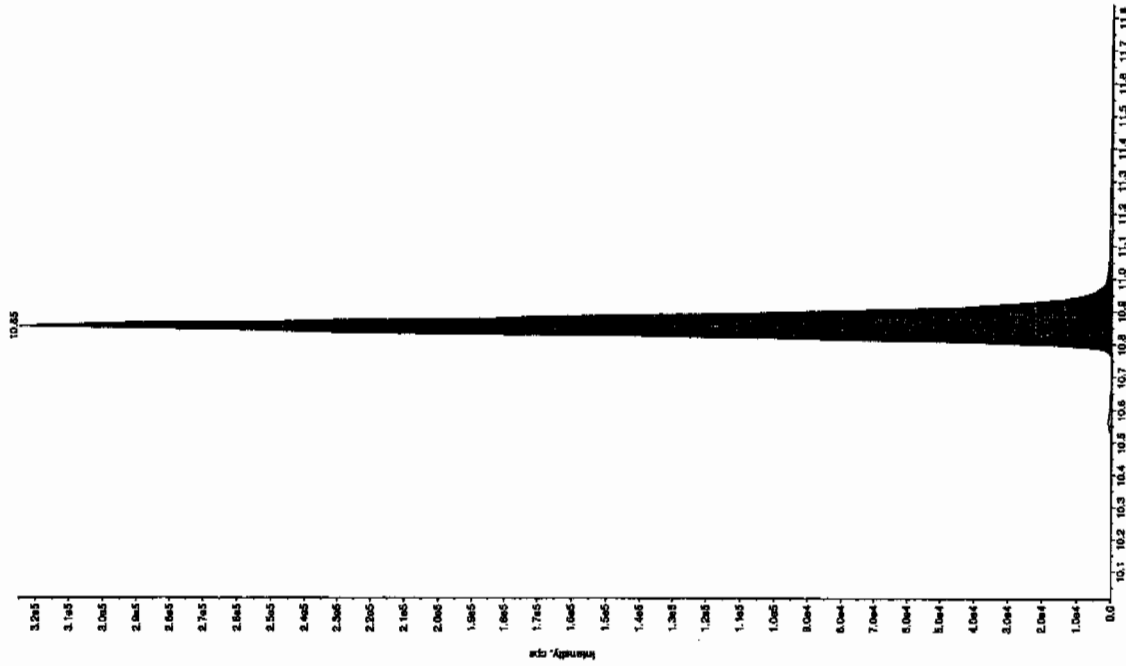
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC
Concentration: 100 ng/mL
Calculated Conc: 91.7 ng/mL
Acq. Date: 3/11/2010
Acq. Time: 6:44:40 PM

Modified: No
Proc Algorithm: IntelliQuan - IQA
Min. Peak Height: 8000 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Xr Window: 30.0 sec
Expected RT: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 1.27e+006 counts
Height: 324973.297 cps
Start Time: 10.8 min
End Time: 11.1 min



QUALITY CONTROL DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 954324

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045748

Sample Amount 2

Moisture:

Amount Units g

Date Received: 17-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330017.wiff

Date Analyzed: 30-MAR-10 15:39

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

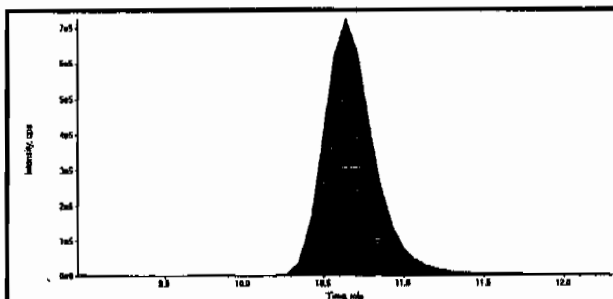
*Concentration =

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

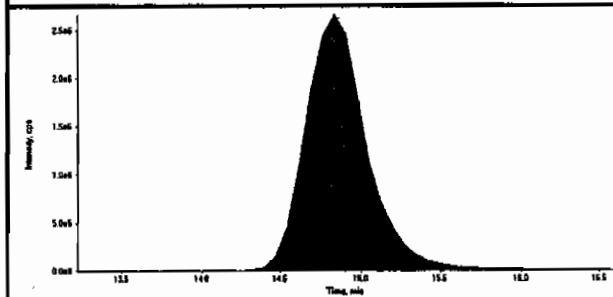
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

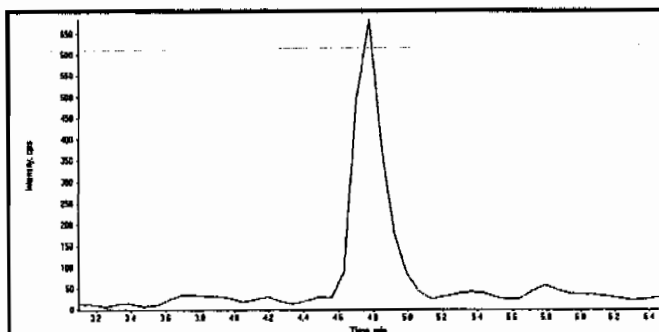
Data File	EXP0330017.wiff	Acquisition Date	3/30/2010 3:39:14 PM
Sample Name	1202045748	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



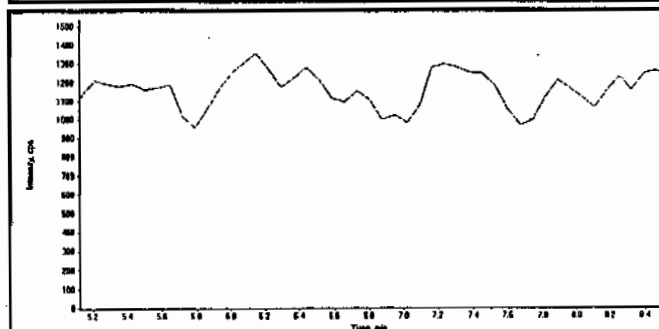
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	15600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	70400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



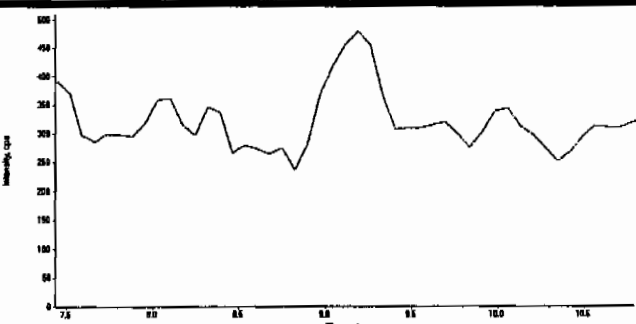
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

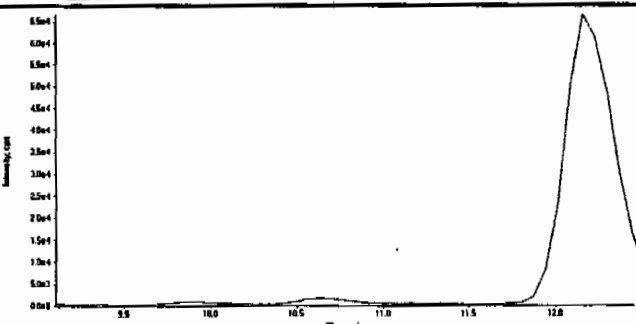
Handwritten:
HMX
04/02/10
LER
4/2/10

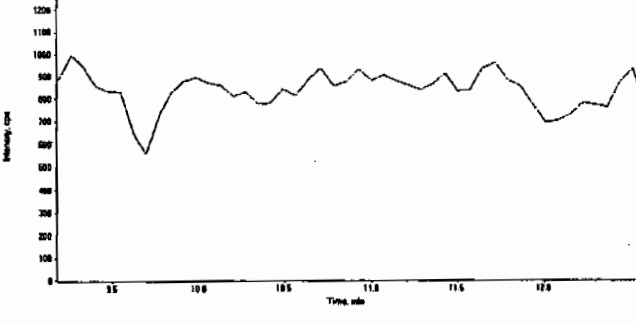
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

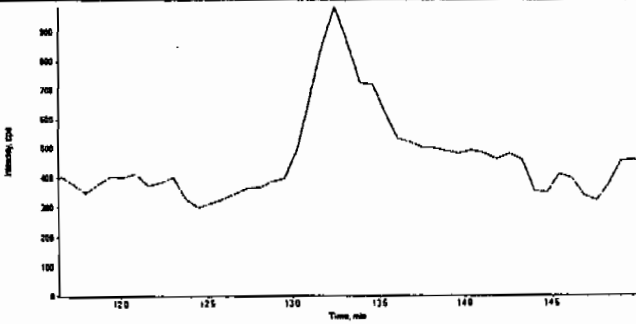
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330017.wiff	Acquisition Date	3/30/2010 3:39:14 PM
Sample Name	1202045748	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

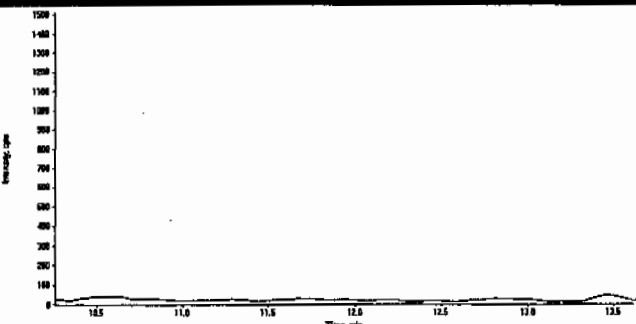
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

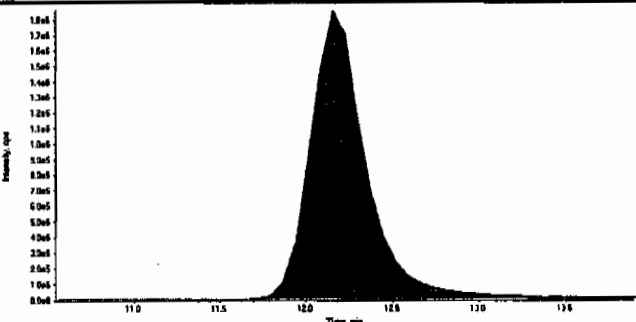
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

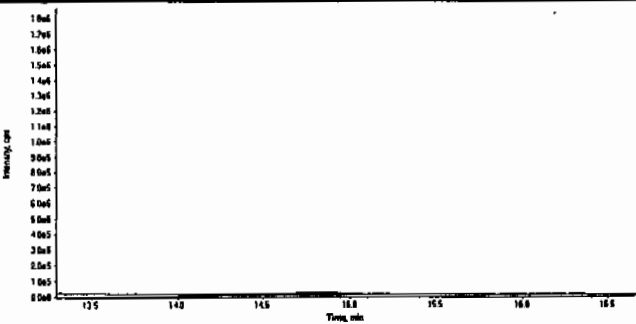
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

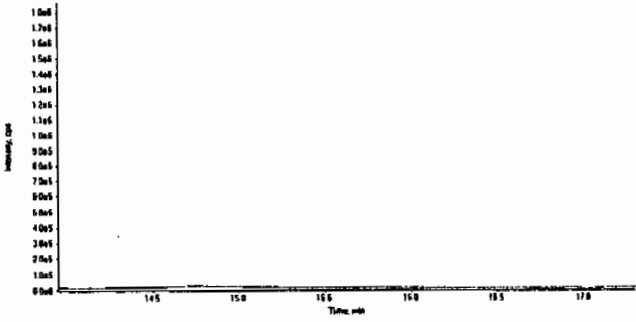
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330017.wiff	Acquisition Date	3/30/2010 3:39:14 PM
Sample Name	1202045748	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.9
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.2
	Actual RT:	12.2
	Area Counts:	4.17e+007
	Manual Modification	No
	Amount:	254. (ng/mL)
	% Accuracy:	N/A

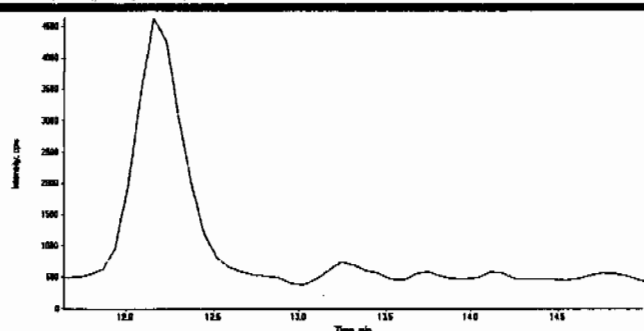
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.0
	Actual RT:	14.8
	Area Counts:	6.13e+005
	Manual Modification	No
	Amount:	4.82 (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

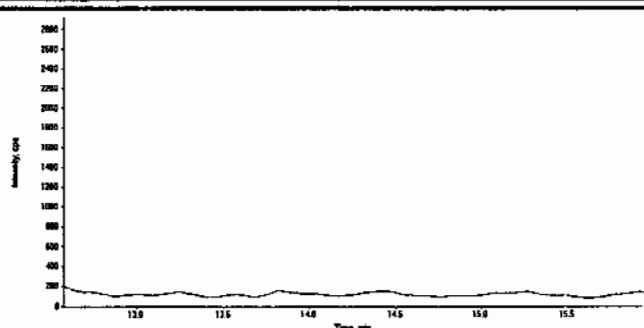
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

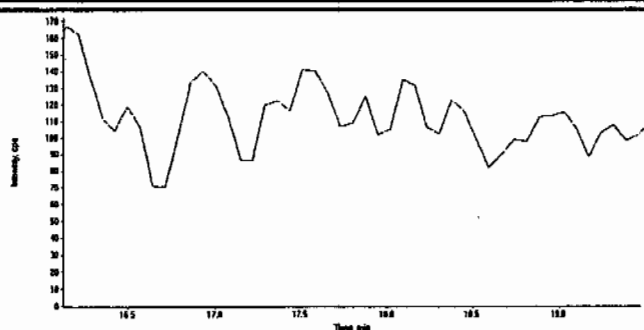
Data File	EXP0330017.wiff	Acquisition Date	3/30/2010 3:39:14 PM
Sample Name	1202045748	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



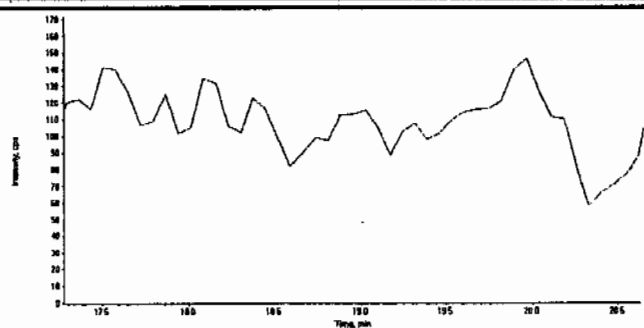
Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

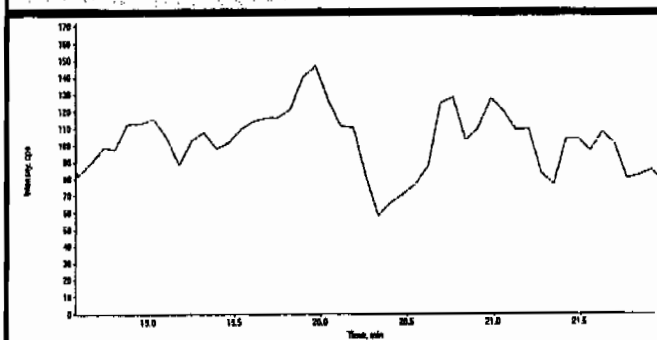


Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

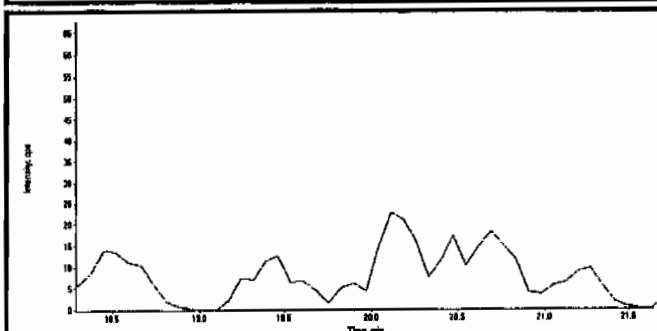
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330017.wiff	Acquisition Date	3/30/2010 3:39:14 PM
Sample Name	1202045748	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.3
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	20.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 954324

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045748

Sample Amount 2

Moisture:

Amount Units g

Date Received: 17-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100082.wiff

Date Analyzed: 11-MAR-10 12:43

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

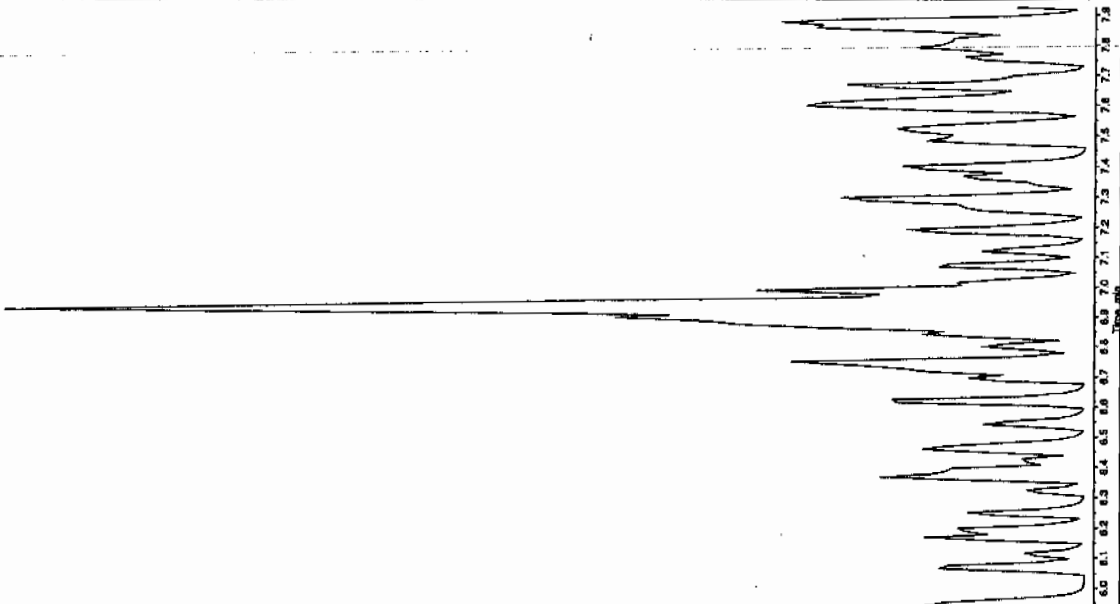
*Concentration =

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

dan 3/14/10

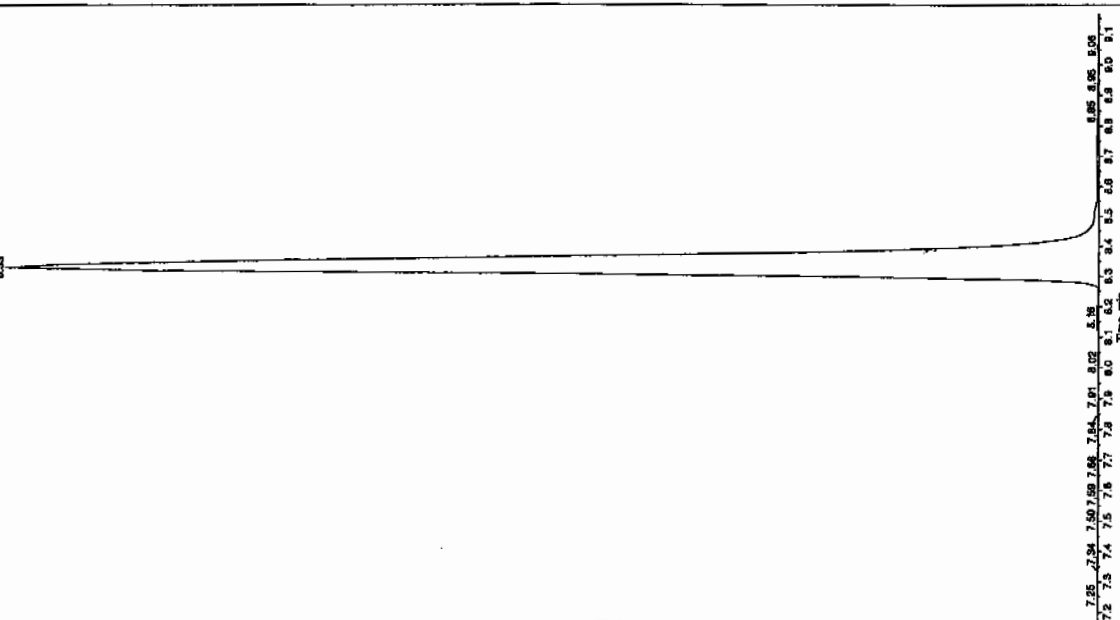
Sample Name: "1220045748" Sample ID: "8543282125" File: "EX503100082.wif"
Peak Name: "TA1B" Mass(es): "257.29204.9 amu"
Comment: "LCX832125" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 3/11/2010
Acq. Date: 12:43:33 PM
Acq. Time: 12:43:33 PM
Modified: No

Intensity, cps



Sample Name: "1220045748" Sample ID: "8543282125" File: "EX503100082.wif"
Peak Name: "3S-Dinitroaniline" Mass(es): "182.0416.0 amu"
Comment: "LCX832125" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 3/11/2010
Acq. Date: 12:43:33 PM
Acq. Time: 12:43:33 PM
Modified: No

Intensity, cps



dan 3/14/10

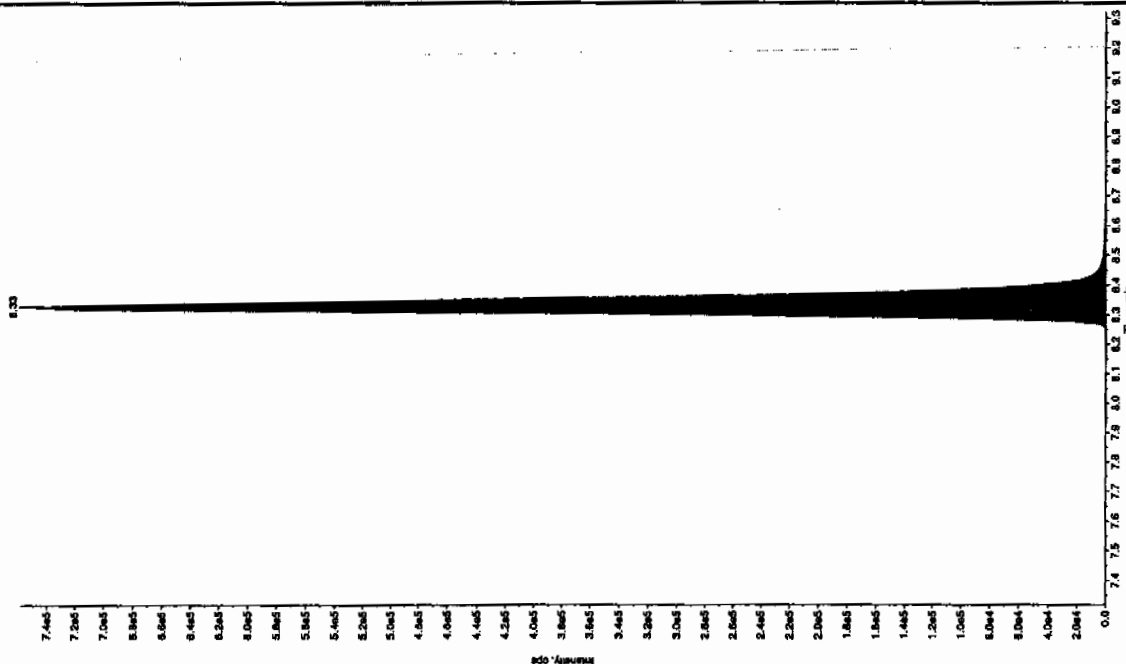
Sample Name: "1202045748" Sample ID: "9543282125" File: "EX503100082.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/11/2010
 Acq. Date: 12/13/13 PM
 Acq. Time: 12:43:33 PM
 Modified: No

File Index: 1
 File Type: N/A
 Concentration: N/A
 Calculated Conc: 3/11/2010
 Acq. Date: 12/13/13 PM
 Acq. Time: 12:43:33 PM
 Modified: No

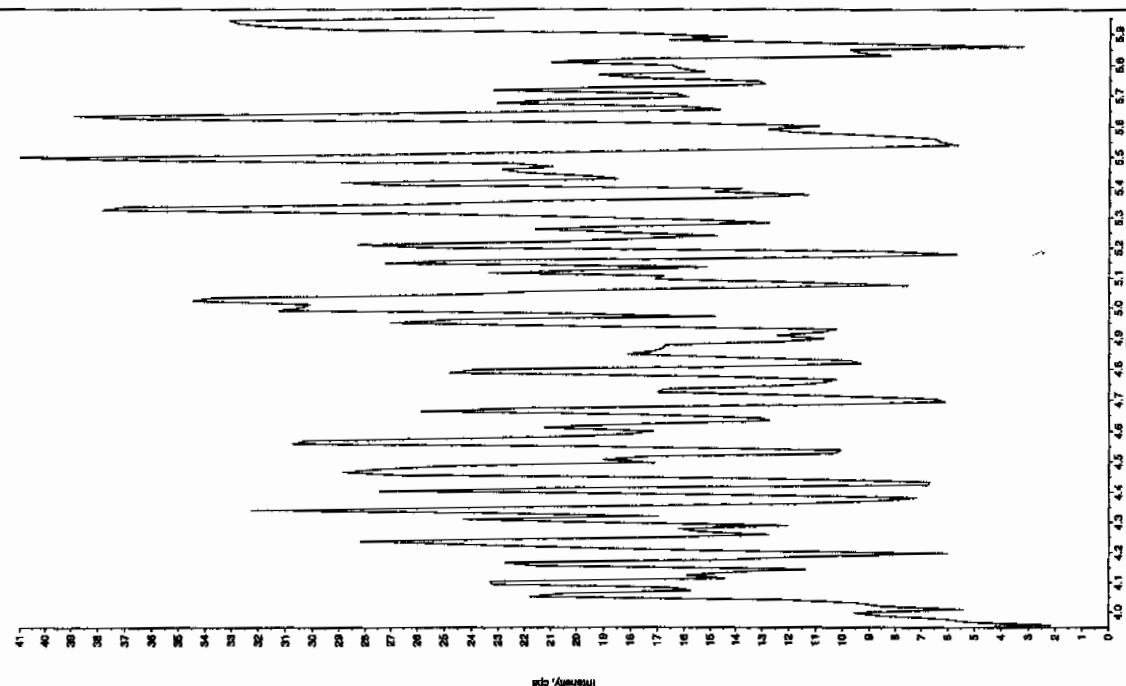
Peak Data:
 Peak Name: 34-Dinitrofluorene - IOA
 Peak Height: 1450.00 cps
 Peak Width: 0.00 sec
 Peak Area: 3 points
 Window: 15.0 sec
 Retention Time: 8.32 min
 Relative RT: No

Integration Data:
 Type: Valley
 Retention Time: 8.33 min
 Counts: 2.76e+006
 Peak Height: 758234.945 cps
 Retention Time: 8.23 min
 Time: 8.82 min



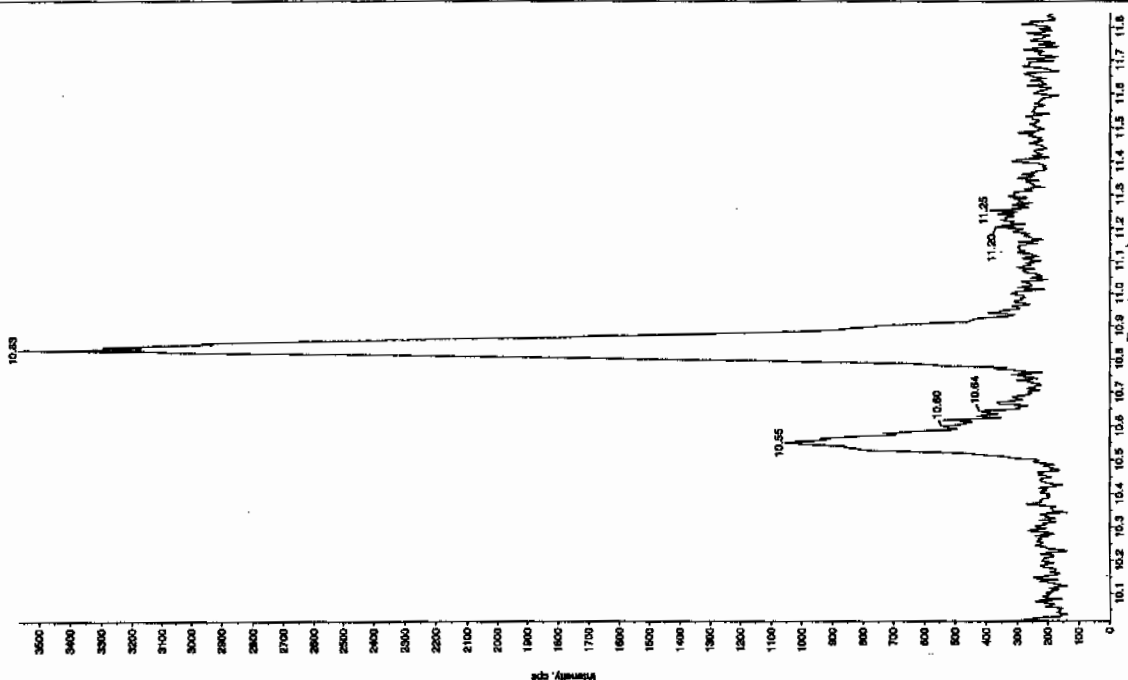
Sample Name: "1202045748" Sample ID: "9543282125" File: "EX503100082.wif"
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "165.0/145.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/11/2010
 Acq. Date: 12/13/13 PM
 Acq. Time: 12:43:33 PM
 Modified: No



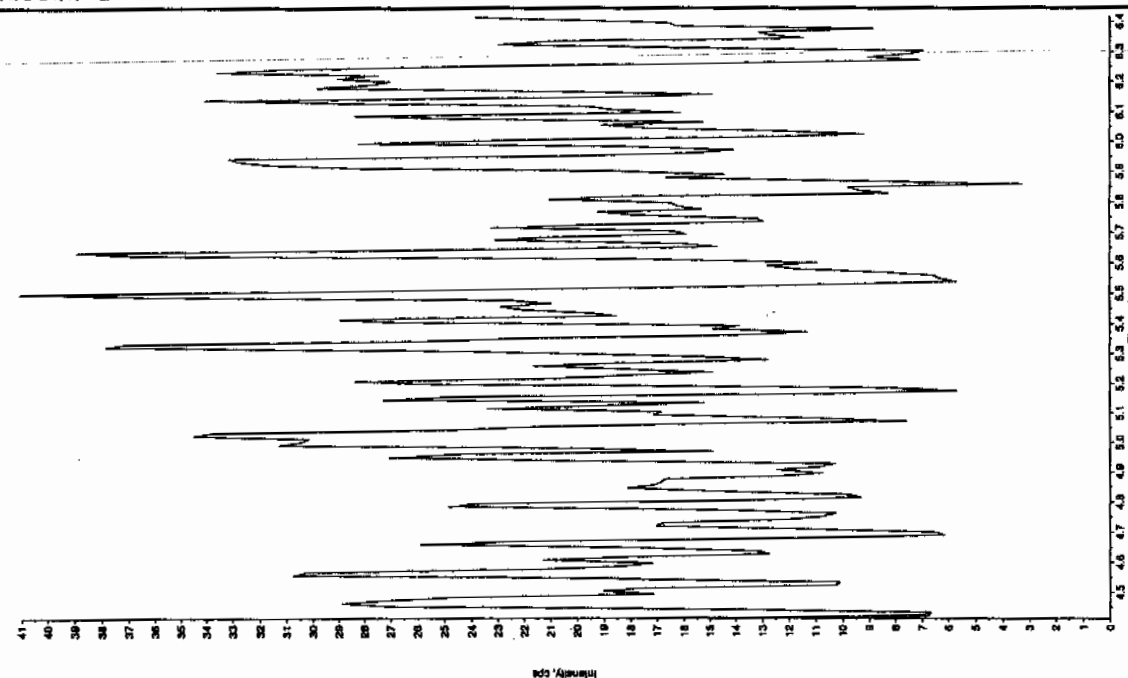
Sample Name: "1202045748" Sample ID: "95432821ER" File: "EXS03100082.wif"
 Peak Name: "Tri(o-cresyl) phosphate" Mass(es): "355.191.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/31/2010
 Acq. Time: 12:43:33 PM
 Modified: No



Sample Name: "1202045748" Sample ID: "95432821ER" File: "EXS03100082.wif"
 Peak Name: "2,4-Diamino-6-nitrocholine" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/31/2010
 Acq. Time: 12:43:33 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 954324

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045749

Sample Amount 2

Moisture:

Amount Units g

Date Received: 17-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330018.wiff

Date Analyzed: 30-MAR-10 16:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4910	
121-14-2	2,4-Dinitrotoluene	4710	
121-82-4	RDX	5630	
19406-51-0	4-Amino-2,6-dinitrotoluene	5400	
2691-41-0	HMX	4360	
35572-78-2	2-Amino-4,6-dinitrotoluene	4800	
479-45-8	Tetryl	1450	
606-20-2	2,6-Dinitrotoluene	5270	
78-11-5	PETN	6610	
88-72-2	o-Nitrotoluene	6080	
98-95-3	Nitrobenzene	4990	
99-08-1	m-Nitrotoluene	5860	
99-35-4	1,3,5-Trinitrobenzene	4020	
99-65-0	m-Dinitrobenzene	4510	
99-99-0	p-Nitrotoluene	5440	

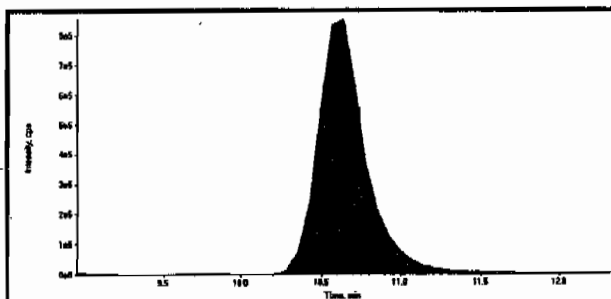
*Concentration =

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

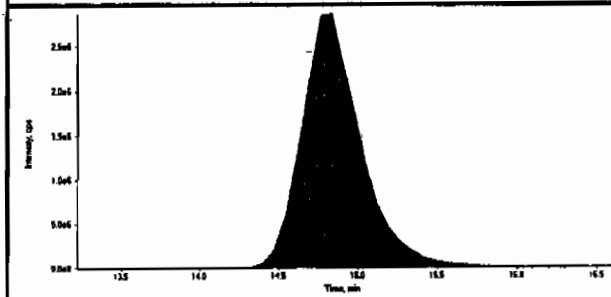
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

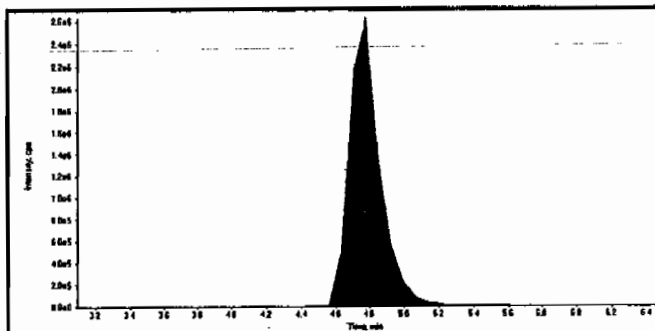
Data File	EXP0330018.wiff	Acquisition Date	3/30/2010 4:05:39 PM
Sample Name	1202045749	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



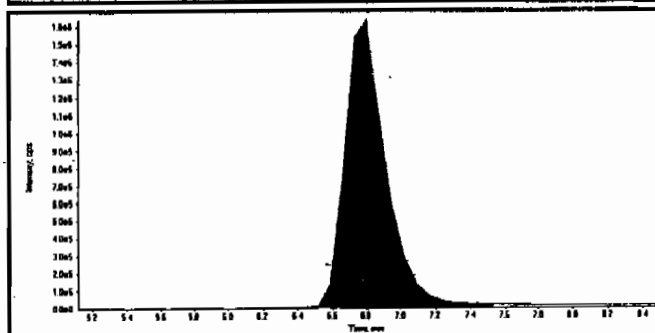
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	17900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	75800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.32e+007
Manual Modification	No
Amount:	436. (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	2.77e+007
Manual Modification	No
Amount:	563. (ng/mL)
% Accuracy:	N/A

Handwritten:
Hmw 4/16/2/10
Olar
4/12/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330018.wiff	Acquisition Date	3/30/2010 4:05:39 PM
Sample Name	1202045749	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	9.12
	Actual RT:	9.04
	Area Counts:	9.87e+007
	Manual Modification	No
	Amount:	402. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.8
	Actual RT:	10.8
	Area Counts:	4.54e+007
	Manual Modification	No
	Amount:	451. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.9
	Actual RT:	10.8
	Area Counts:	2.49e+007
	Manual Modification	No
	Amount:	145. (ng/mL)
	% Accuracy:	N/A

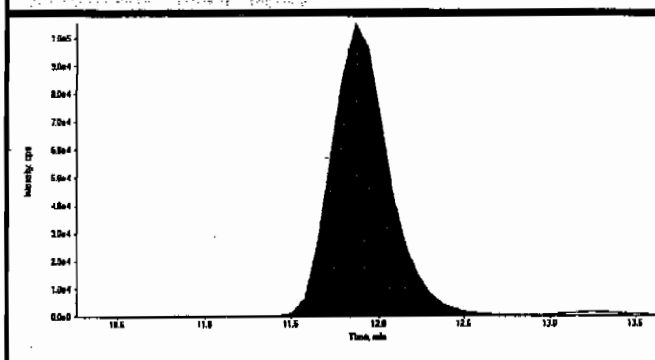
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.3
	Actual RT:	13.2
	Area Counts:	1.98e+008
	Manual Modification	No
	Amount:	491. (ng/mL)
	% Accuracy:	N/A



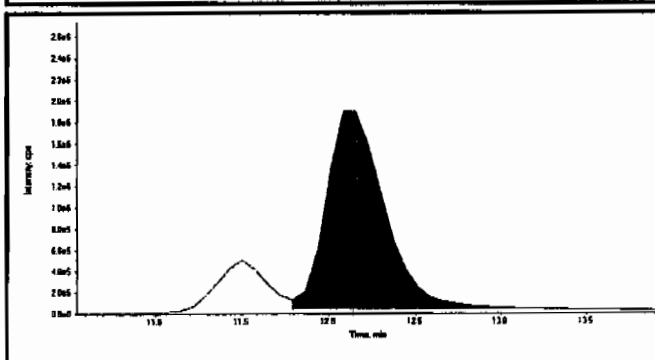
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

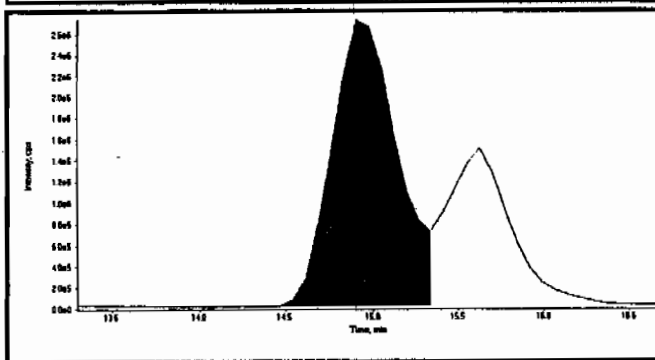
Data File	EXP0330018.wiff	Acquisition Date	3/30/2010 4:05:39 PM
Sample Name	1202045749	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



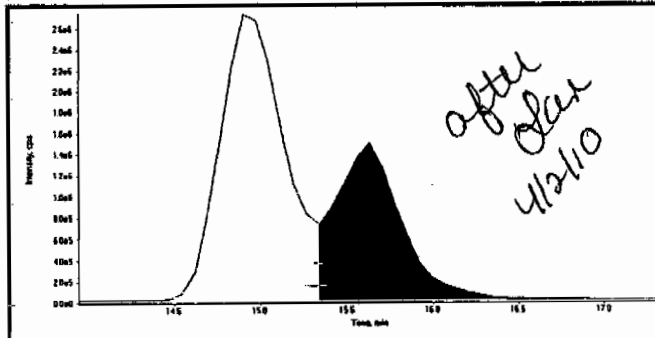
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	11.9
Area Counts:	2.40e+006
Manual Modification	No
Amount:	499. (ng/mL)
% Accuracy:	N/A



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.2
Actual RT:	12.1
Area Counts:	4.40e+007
Manual Modification	No
Amount:	249. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.0
Actual RT:	14.9
Area Counts:	7.22e+007
Manual Modification	No
Amount:	527. (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	15.6
Area Counts:	3.94e+007
Manual Modification	Yes
Amount:	471. (ng/mL)
% Accuracy:	N/A

Before Run 4/1/10

Sample Name: "120004510" Sample ID: "84020004510" Raw: "E:\PC\300018_101"

Peak Name: "2-Amino-2-deoxyribose" Mass(es): "187.07160.0 amu"

Comment: "LC16321_S" Acquisition: "

1

spike Index:

spike Type: Unknown

spike Concentration: 8.00 ng/mL

1. Date: 3/10/2010

2. Time: 4:05:13 PM

3. File: No

Intensity, cps

8.000

7.800

7.600

7.400

7.200

7.000

6.800

6.600

6.400

6.200

6.000

5.800

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5.400

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8.000

7.800

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6.000

5.800

5.600

5.400

5.200

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330018.wiff	Acquisition Date	3/30/2010 4:05:39 PM
Sample Name	1202045749	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	13.2
	Area Counts:	8.25e+007
	Manual Modification	No
	Amount:	540. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	14.2
	Area Counts:	2.76e+006
	Manual Modification	Yes
	Amount:	480. (ng/mL)
	% Accuracy:	N/A

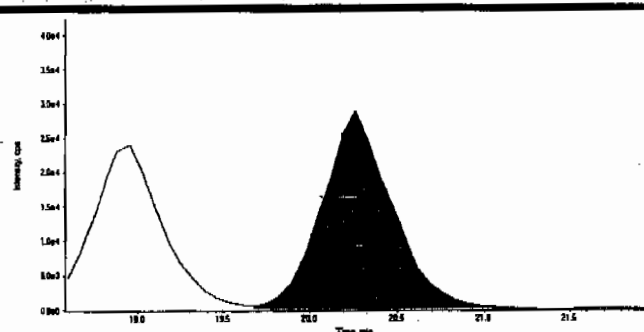
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	17.7
	Area Counts:	1.20e+006
	Manual Modification	No
	Amount:	608. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	19.0
	Area Counts:	6.04e+005
	Manual Modification	No
	Amount:	544. (ng/mL)
	% Accuracy:	N/A

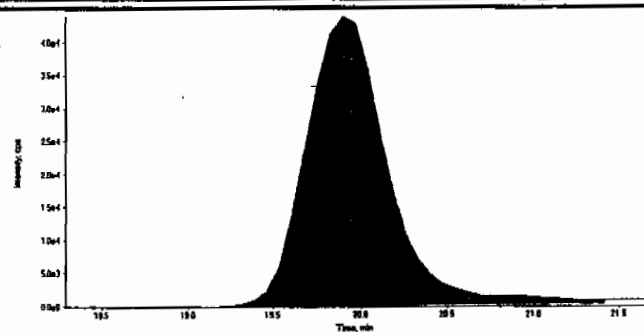
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330018.wiff	Acquisition Date	3/30/2010 4:05:39 PM
Sample Name	1202045749	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.3
Actual RT:	20.3
Area Counts:	8.04e+005
Manual Modification	No
Amount:	586. (ng/mL)
% Accuracy:	N/A



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	20.0
Actual RT:	19.9
Area Counts:	1.42e+006
Manual Modification	No
Amount:	661. (ng/mL)
% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 954324

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045749

Sample Amount 2

Moisture:

Amount Units g

Date Received: 17-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100083.wiff

Date Analyzed: 11-MAR-10 12:59

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4630	
59229-75-3	2,6-Diamino-4-nitrotoluene	4850	
618-87-1	3,5-Dinitroaniline	5110	
6629-29-4	2,4-Diamino-6-nitrotoluene	4560	
78-30-8	tris(o-cresyl) phosphate	4670	

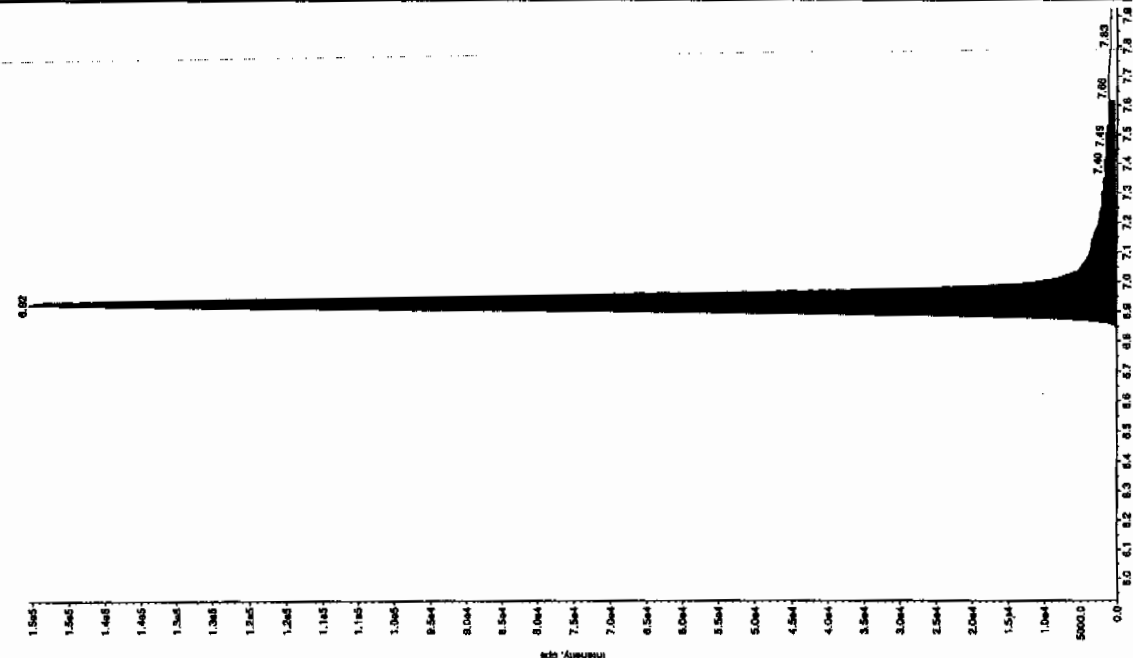
*Concentration =

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

Ran 3/14/10

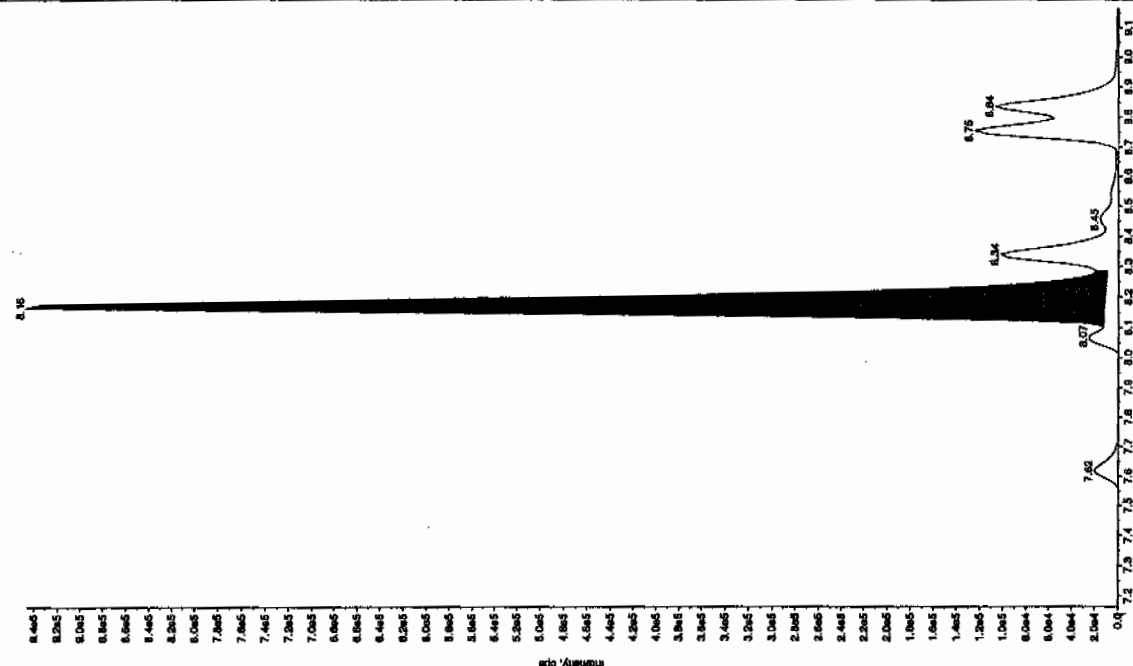
Sample Name: "1202045749" Sample ID: "9543282" File: "EXS03100083.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCX32125" Annotation: "1"

Sample Index: Unknown
 Sample Type: N/A
 Concentrated Conc: 463 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:59:15 PM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.92 min
 Area: 574946 counts
 Height: 159411 cps
 Start Time: 6.83 min
 End Time: 7.62 min



Sample Name: "1202045749" Sample ID: "9543282" File: "EXS03100083.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCX32125" Annotation: "1"

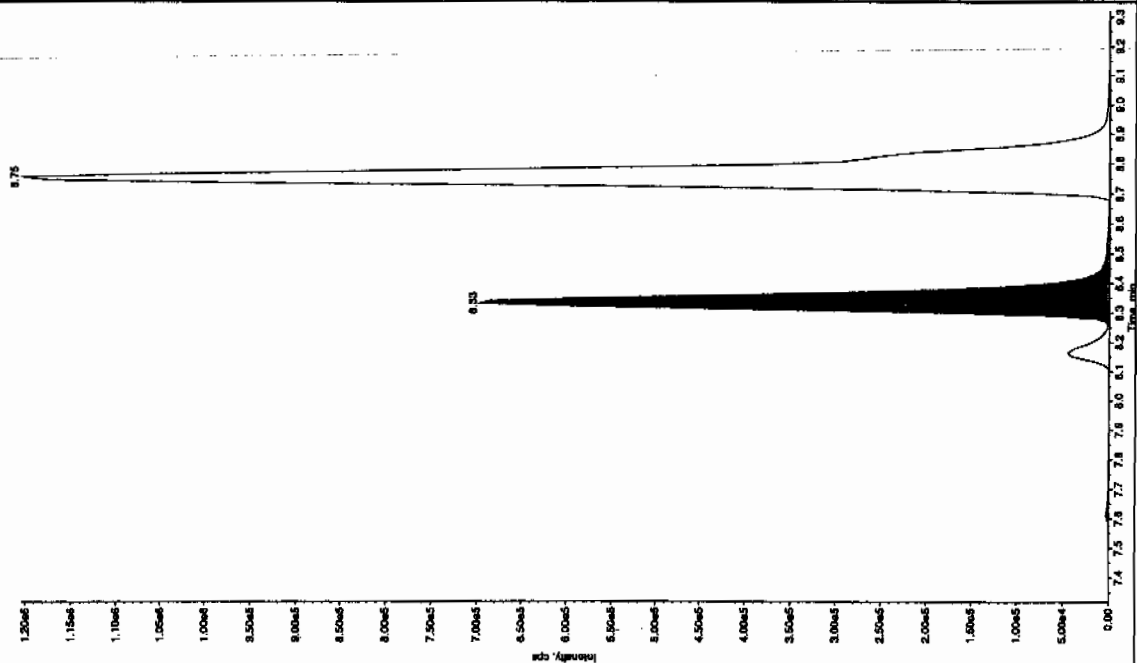
Sample Index: Unknown
 Sample Type: N/A
 Concentrated Conc: 511 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:59:15 PM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 3414006 counts
 Height: 934358 cps
 Start Time: 8.10 min
 End Time: 8.29 min



Time 03/15/10

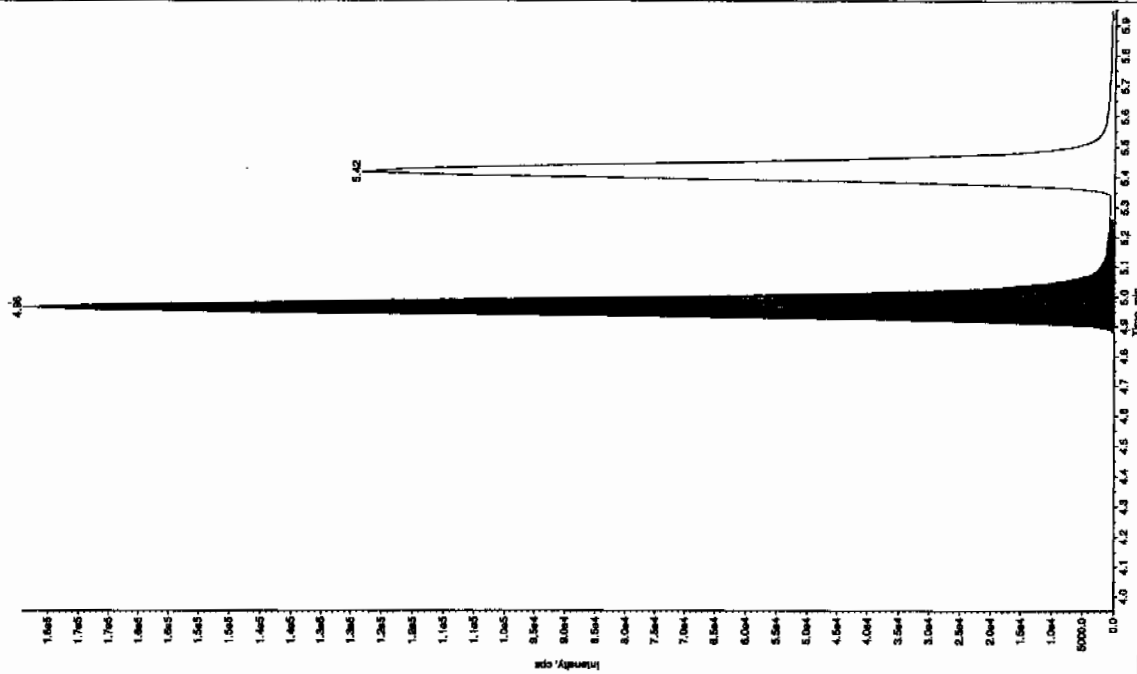
Sample Name: "1202045749" Sample ID: "95432921.ER" File: "EX503100083.wif"
 Peak Name: "24-Dinitrofluorene" Mass(es): "182.1751.9 amu"
 Comment: "LCX832125" Annotation: "

File Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 262. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:59:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Retention Width: 315.0 points
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.64e+006 counts
 Height: 695510.559 cps
 Start Time: 8.26 min
 End Time: 8.56 min



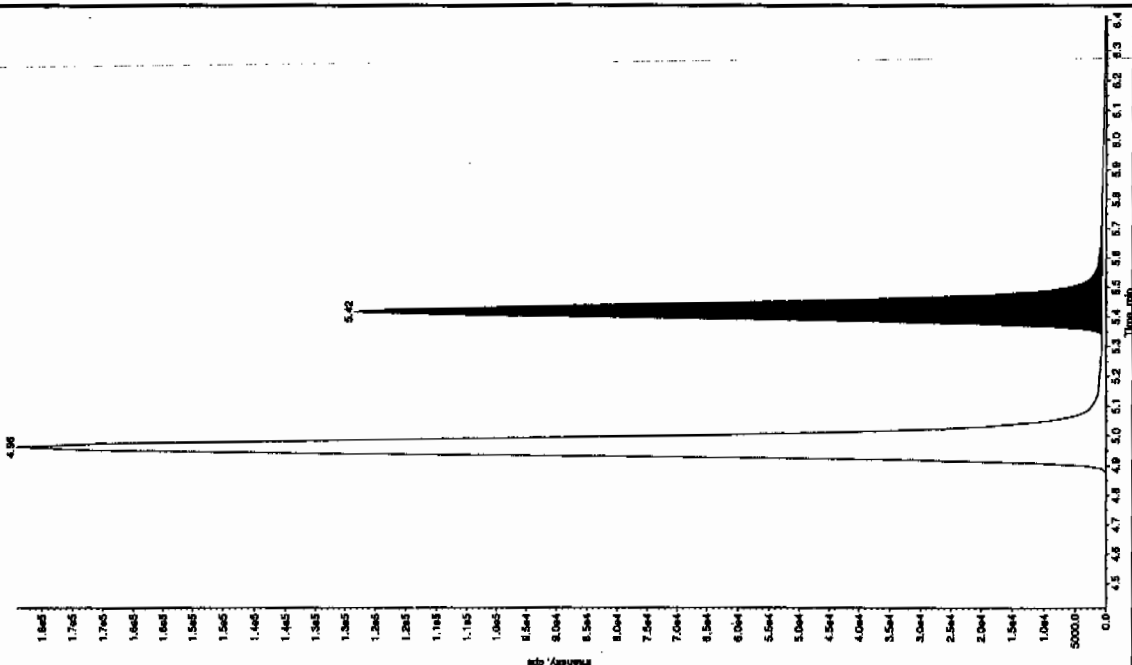
Sample Name: "1202045749" Sample ID: "95432921.ER" File: "EX503100083.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0466.0 amu"
 Comment: "LCX832125" Annotation: "

File Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 485. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:59:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Retention Width: 30.0 points
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 7.43e+005 counts
 Height: 179077.744 cps
 Start Time: 4.85 min
 End Time: 5.26 min



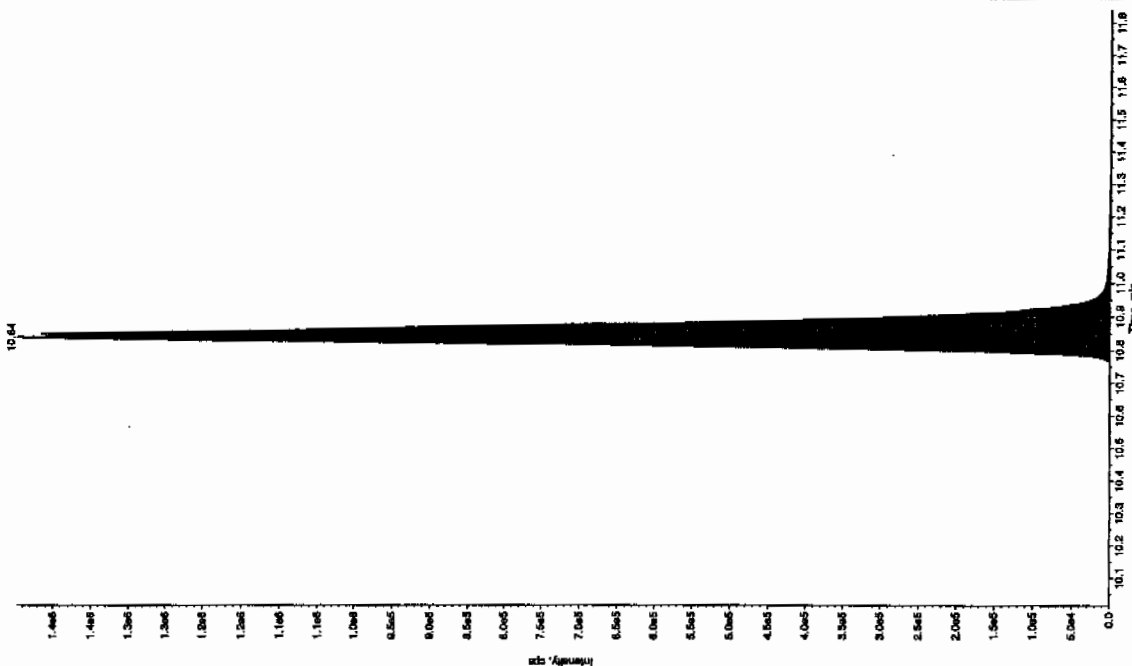
Sample Name: "1202045749" Sample ID: "8543282125" File: "EXS03100083.wif"
 Peak Name: "2A-Dichloro-6-nitrobenzene" Mass(es): "166.0463.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 456. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:59:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Rt Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 122713.126 counts
 Height: 5.32 counts
 Start Time: 5.01 min
 End Time: 5.91 min



Sample Name: "1202045749" Sample ID: "8543282125" File: "EXS03100083.wif"
 Peak Name: "Triphenyl phosphite" Mass(es): "308.181.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 467. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 12:59:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Rt Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 946408 counts
 Height: 144786.377 cps
 Start Time: 10.7 min
 End Time: 11.2 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8196(247193001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045750

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330020.wiff

Date Analyzed: 30-MAR-10 16:58

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4560	
121-14-2	2,4-Dinitrotoluene	5300	
121-82-4	RDX	6520	
19406-51-0	4-Amino-2,6-dinitrotoluene	5030	
2691-41-0	HMX	5220	
35572-78-2	2-Amino-4,6-dinitrotoluene	4720	
479-45-8	Tetryl	2440	
606-20-2	2,6-Dinitrotoluene	4750	
78-11-5	PETN	5860	
88-72-2	o-Nitrotoluene	5960	
98-95-3	Nitrobenzene	5440	
99-08-1	m-Nitrotoluene	5200	
99-35-4	1,3,5-Trinitrobenzene	4520	
99-65-0	m-Dinitrobenzene	5080	
99-99-0	p-Nitrotoluene	5510	

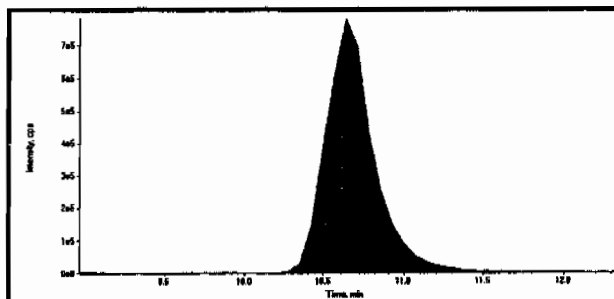
*Concentration =

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

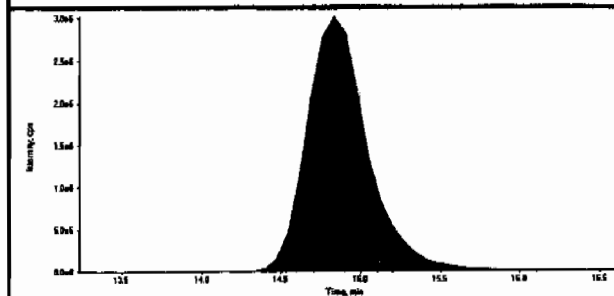
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

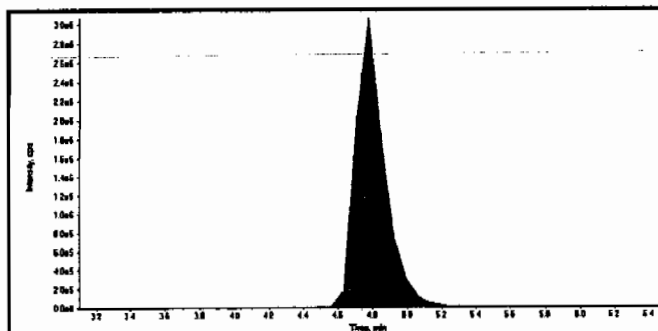
Data File	EXP0330020.wiff	Acquisition Date	3/30/2010 4:58:31 PM
Sample Name	1202045750	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



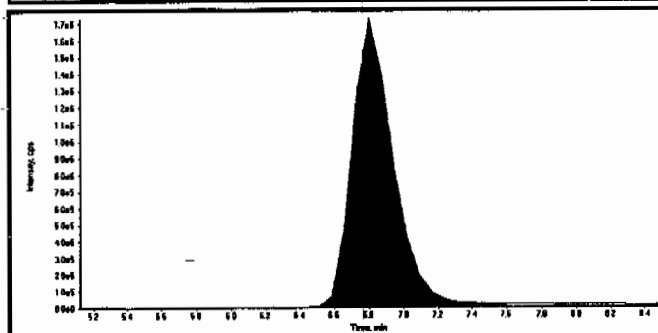
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	16100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.80
Area Counts:	80300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.58e+007
Manual Modification	No
Amount:	522. (ng/mL)
% Accuracy:	N/A



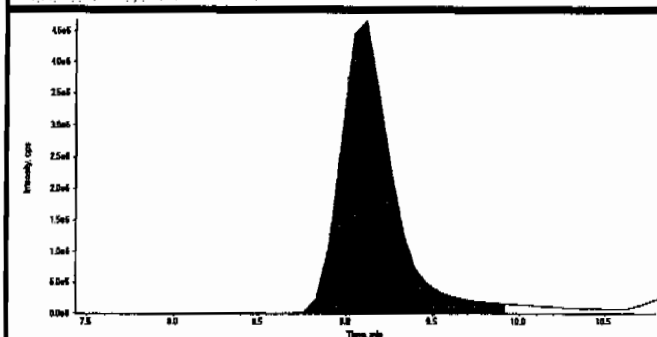
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	2.88e+007
Manual Modification	No
Amount:	652. (ng/mL)
% Accuracy:	N/A

Shine 24/2/10
lar 4/2/10

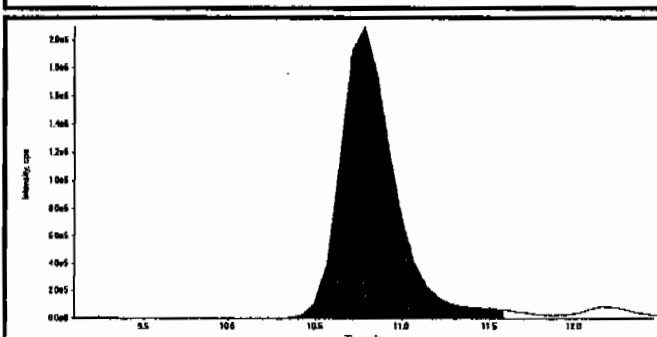
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

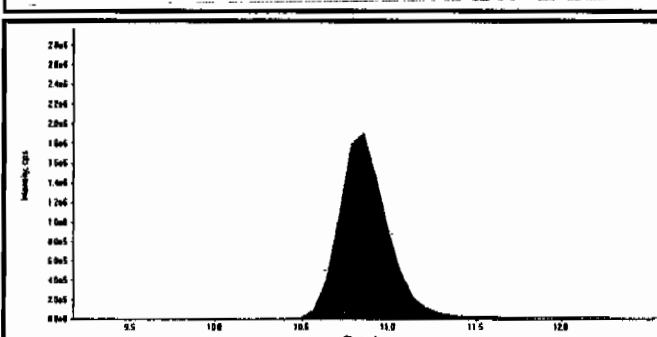
Data File	EXP0330020.wiff	Acquisition Date	3/30/2010 4:58:31 PM
Sample Name	1202045750	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



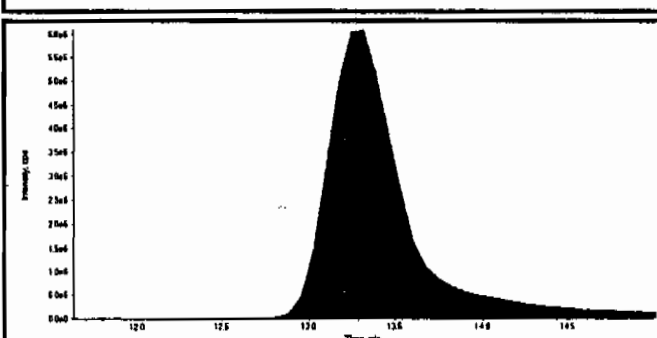
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	9.12
Actual RT:	9.12
Area Counts:	9.97e+007
Manual Modification	No
Amount:	452. (ng/mL)
% Accuracy:	N/A



Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.8
Actual RT:	10.8
Area Counts:	4.59e+007
Manual Modification	No
Amount:	508. (ng/mL)
% Accuracy:	N/A



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.9
Actual RT:	10.9
Area Counts:	3.76e+007
Manual Modification	No
Amount:	244. (ng/mL)
% Accuracy:	N/A

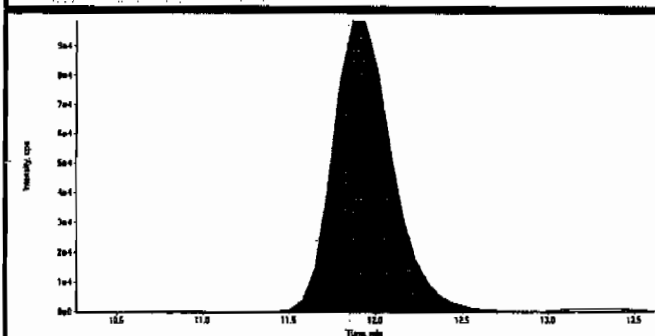


Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.3
Actual RT:	13.3
Area Counts:	1.97e+008
Manual Modification	No
Amount:	456. (ng/mL)
% Accuracy:	N/A

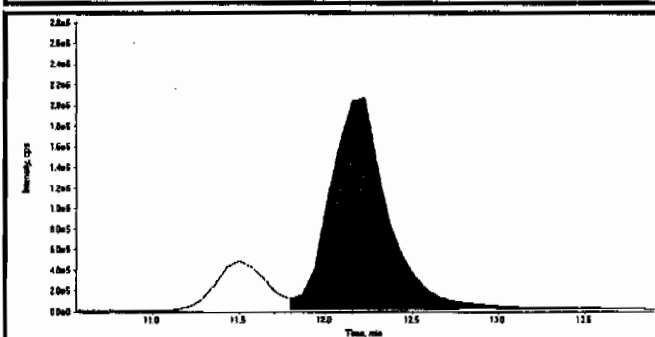
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

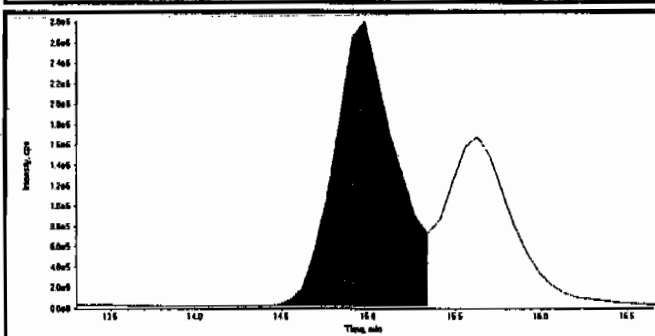
Data File	EXP0330020.wiff	Acquisition Date	3/30/2010 4:58:31 PM
Sample Name	1202045750	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



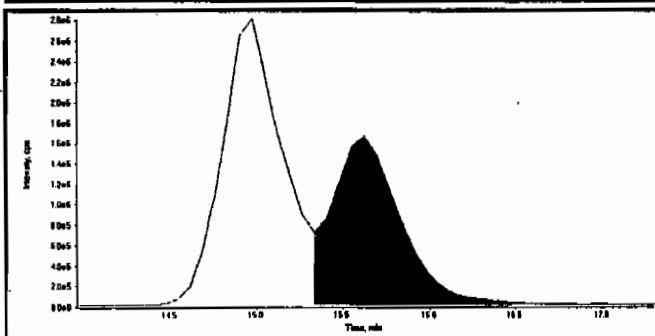
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	11.9
Area Counts:	2.35e+006
Manual Modification	No
Amount:	544. (ng/mL)
% Accuracy:	N/A



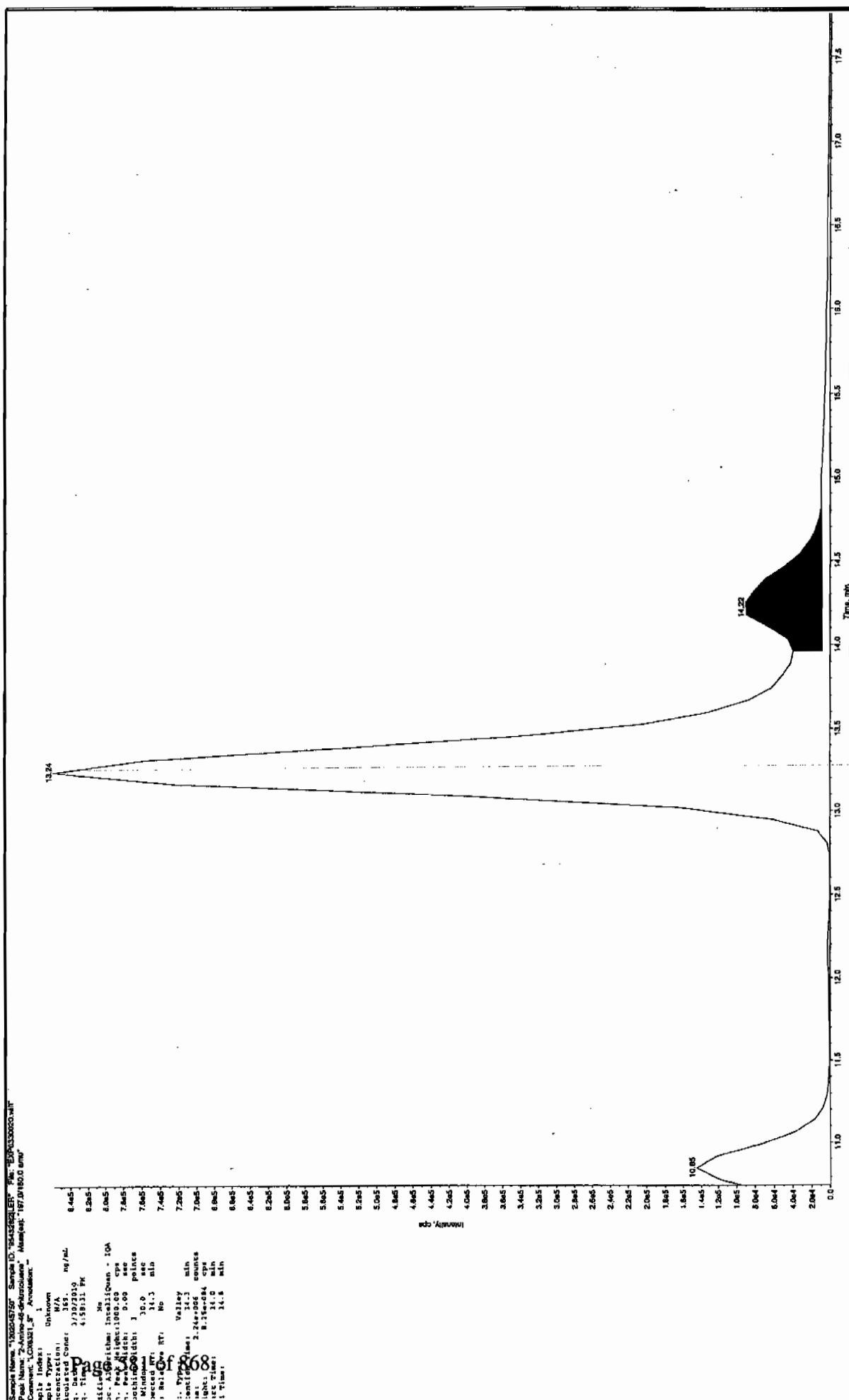
Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.2
Actual RT:	12.2
Area Counts:	4.83e+007
Manual Modification	No
Amount:	258. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.0
Actual RT:	15.0
Area Counts:	6.89e+007
Manual Modification	No
Amount:	475. (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	15.6
Area Counts:	4.68e+007
Manual Modification	No
Amount:	530. (ng/mL)
% Accuracy:	N/A



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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330020.wiff	Acquisition Date	3/30/2010 4:58:31 PM
Sample Name	1202045750	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	4-Amino-2,6-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.3
	Actual RT:	13.2
	Area Counts:	8.14e+007
	Manual Modification	No
	Amount:	503. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.3
	Actual RT:	14.2
	Area Counts:	2.87e+006
	Manual Modification	Yes
	Amount:	472. (ng/mL)
	% Accuracy:	N/A

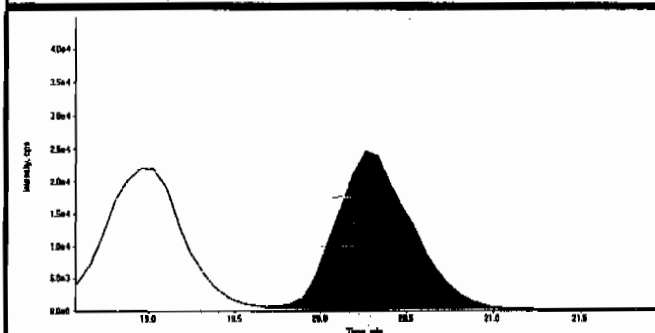
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.8
	Actual RT:	17.8
	Area Counts:	1.25e+006
	Manual Modification	No
	Amount:	596. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.0
	Actual RT:	19.0
	Area Counts:	6.47e+005
	Manual Modification	No
	Amount:	551. (ng/mL)
	% Accuracy:	N/A

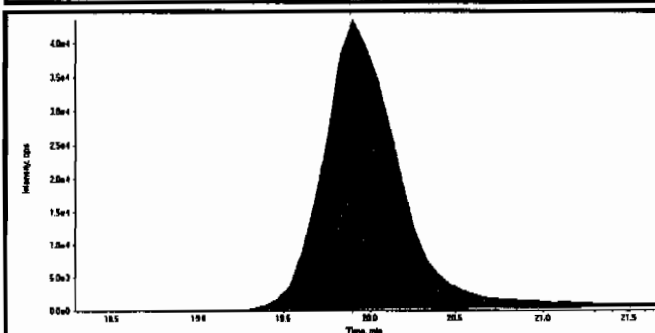
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330020.wiff	Acquisition Date	3/30/2010 4:58:31 PM
Sample Name	1202045750	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.3
Actual RT:	20.3
Area Counts:	7.56e+005
Manual Modification	No
Amount:	520. (ng/mL)
% Accuracy:	N/A



Compound Name:	PETN (361.1/62.0 amu)
Expected RT:	20.0
Actual RT:	19.9
Area Counts:	1.34e+006
Manual Modification	No
Amount:	586. (ng/mL)
% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8196(247193001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045750

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100085.wiff

Date Analyzed: 11-MAR-10 13:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	9940	
59229-75-3	2,6-Diamino-4-nitrotoluene	4850	
618-87-1	3,5-Dinitroaniline	5030	
6629-29-4	2,4-Diamino-6-nitrotoluene	4930	
78-30-8	tris(o-cresyl) phosphate	4710	

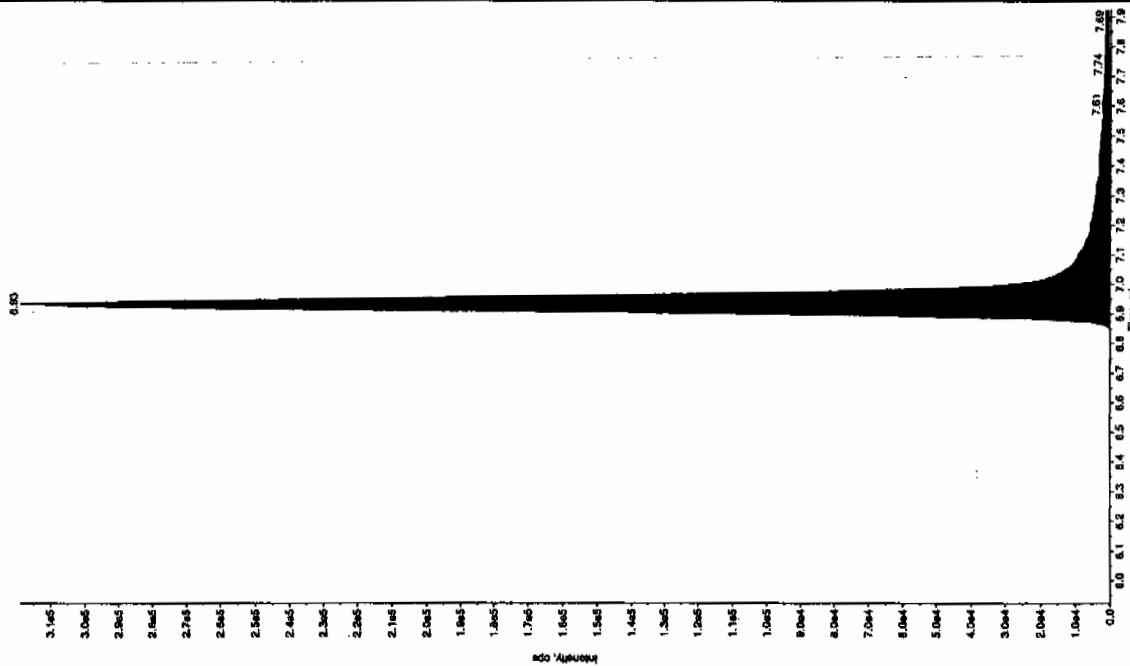
*Concentration =

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

kan 3/14/10

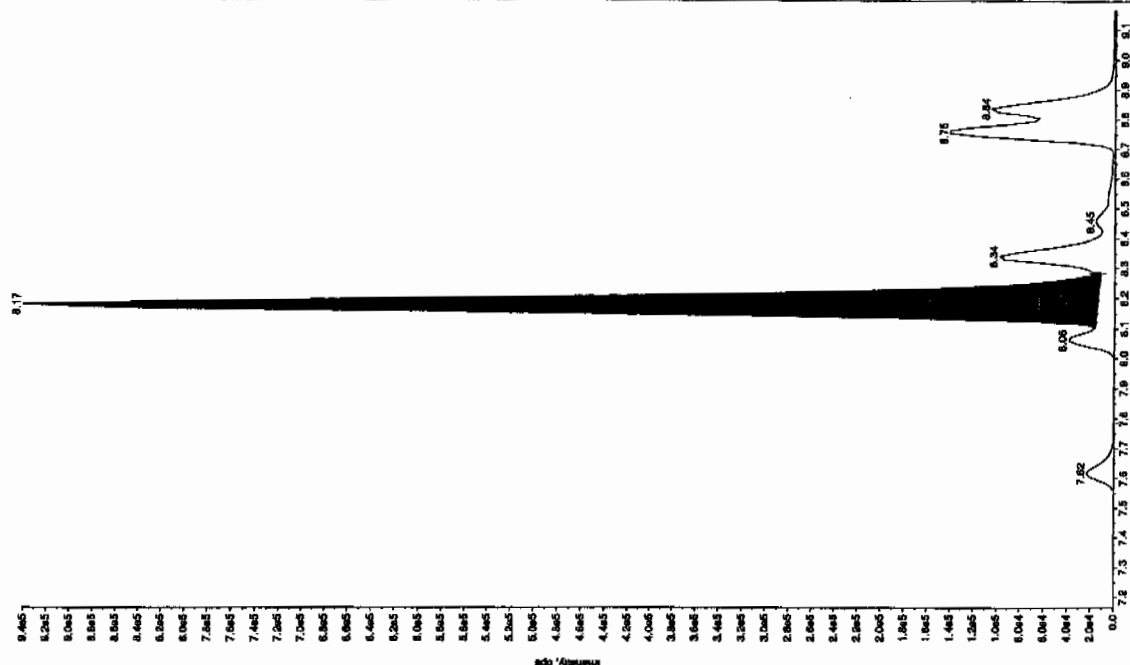
Sample Name: "1202045757" Sample ID: "85432821" LEP File: "EXS03100085.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX632125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 503. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:30:40 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 3.00 peaks
 Smoothing Width: 30.0 peaks
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 1.42E+006 counts
 Height: 318768.577 cps
 Start Time: 6.83 min
 End Time: 8.08 min



Sample Name: "1202045757" Sample ID: "85432821" LEP File: "EXS03100085.wif"
 Peak Name: "35-Dichloroaniline" Mass(es): "182.0460 amu"
 Comment: "LCX632125" Annotation: ""

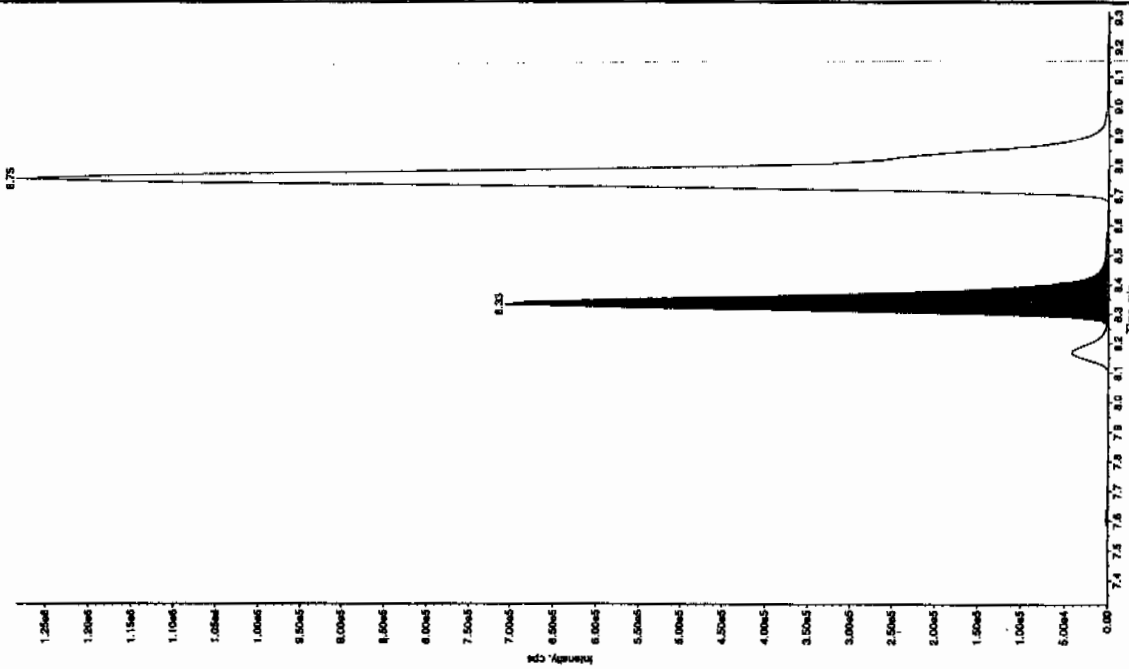
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 503. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:30:40 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 peaks
 Smoothing Width: 30.0 peaks
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 3.56E+006 counts
 Height: 925836.548 cps
 Start Time: 8.10 min
 End Time: 8.29 min



kan 3/14/10

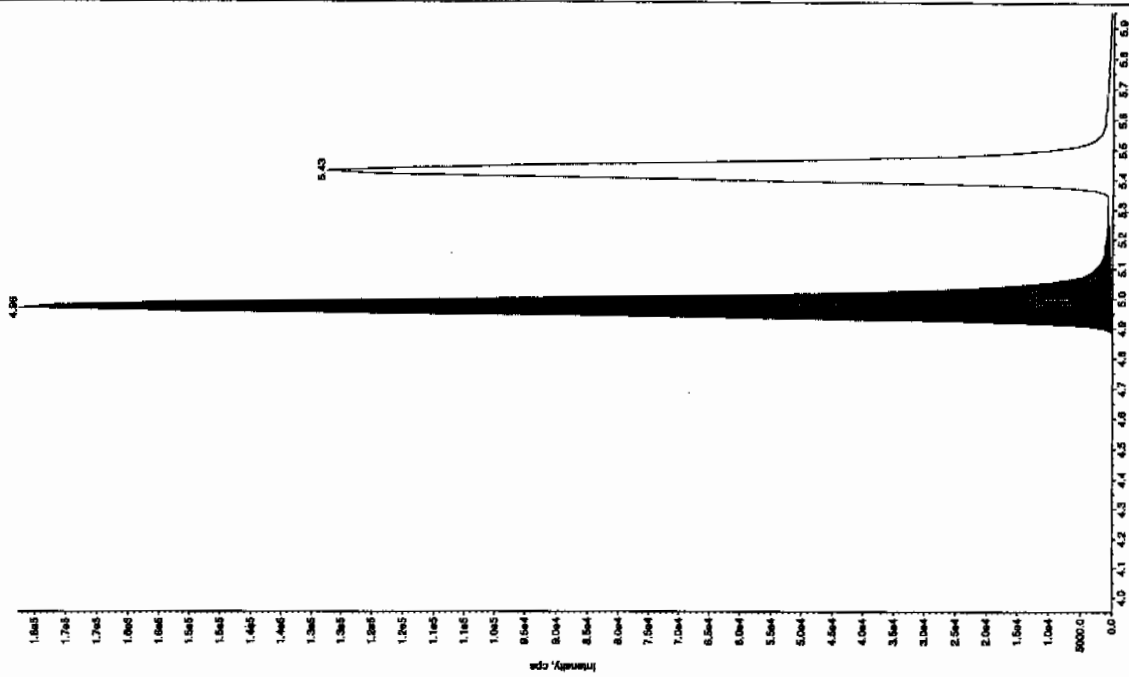
Sample Name: "1202045750" Sample ID: "954328125" File: "EXS03100085.wit"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1751.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 235. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:30:40 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 3.00 points
 Search Width: 3.00 points
 Min. Window: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.58e+006 counts
 Height: 703443.359 cps
 Start Time: 8.26 min
 End Time: 8.55 min



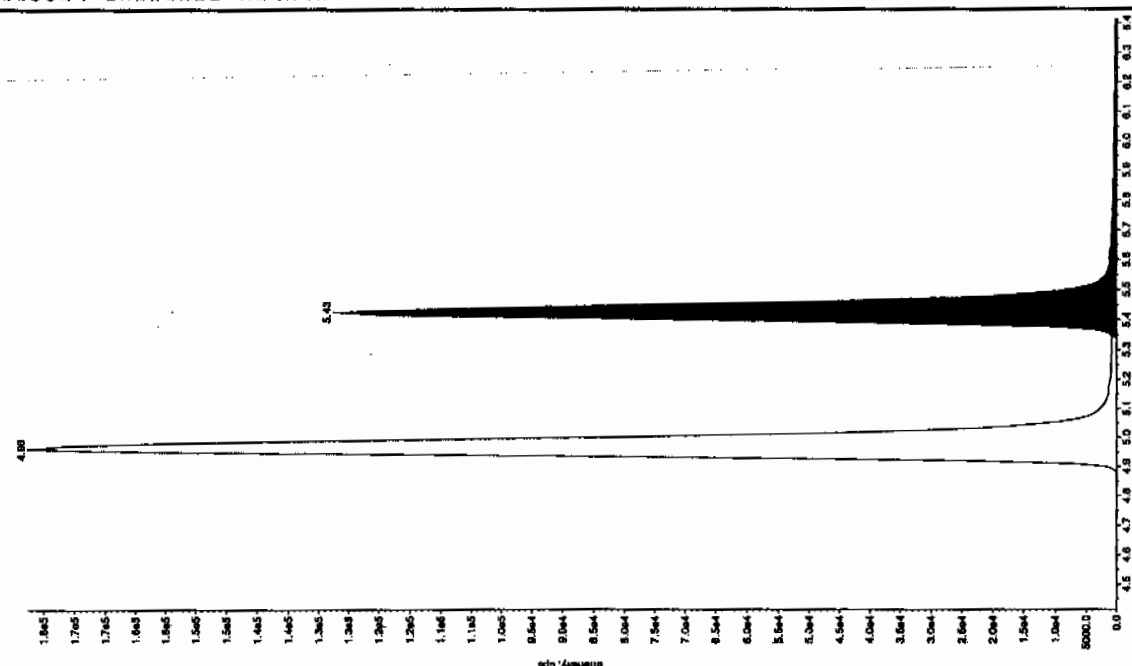
Sample Name: "1202045750" Sample ID: "954328125" File: "EXS03100085.wit"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "168.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 485. ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:30:40 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 3.00 points
 Search Width: 3.00 points
 Min. Window: 15.0 sec
 Expected RT: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 7.42e+005 counts
 Height: 177544.830 cps
 Start Time: 4.88 min
 End Time: 5.25 min



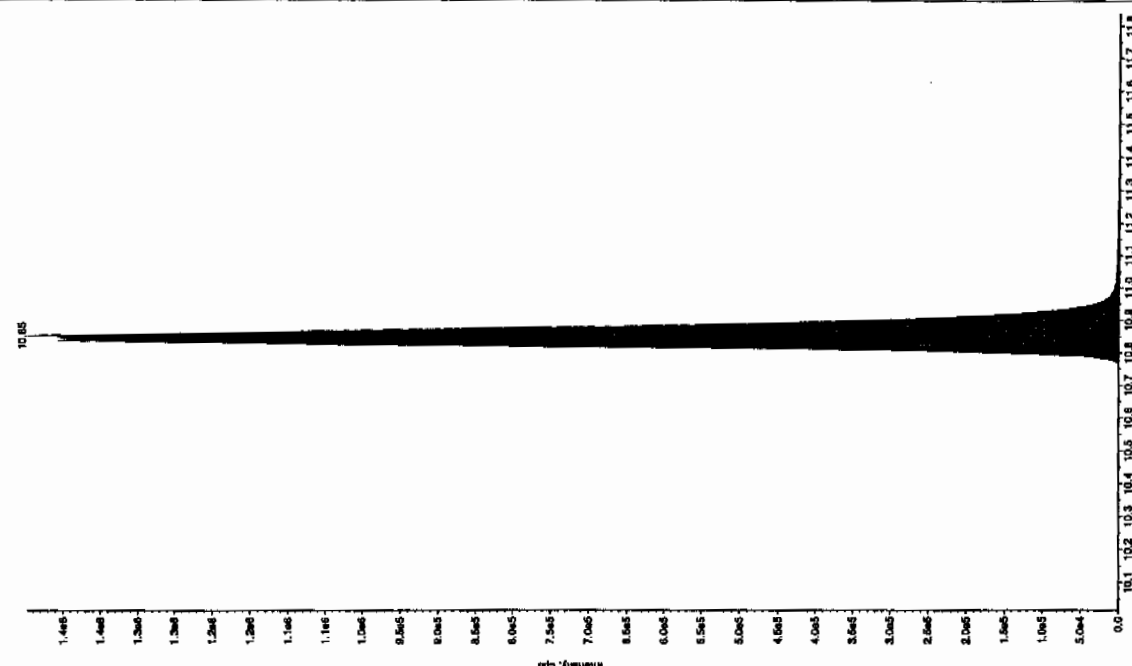
Sample Name: "1202045750" Sample ID: "95432821" File: "EX503100085.wif"
 Peak Name: "24-Dienzo-6-nitrofluorene" Mass(es): 166.046.0 amu
 Comment: "LCX502125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 493 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:30:40 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 250.00 cps
 n. Peak Width: 0.00 sec
 n. Peak Width: 3 points
 Window: 30.0 sec
 Expected RT: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Area: 5.21e+005 counts
 Height: 127524.660 cps
 Start Time: 5.38 min
 End Time: 5.26 min



Sample Name: "1202045750" Sample ID: "95432821" File: "EX503100085.wif"
 Peak Name: "18a-O-methyl progesterone" Mass(es): 386.181.0 amu
 Comment: "LCX502125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 471 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:30:40 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 8000.00 cps
 n. Peak Width: 0.00 sec
 n. Peak Width: 3 points
 Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.98e+006 counts
 Height: 1446939.009 cps
 Start Time: 10.7 min
 End Time: 11.2 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8196(247193001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045751

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0330021.wiff

Date Analyzed: 30-MAR-10 17:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5150	
121-14-2	2,4-Dinitrotoluene	4860	
121-82-4	RDX	5310	
19406-51-0	4-Amino-2,6-dinitrotoluene	5710	
2691-41-0	HMX	4430	
35572-78-2	2-Amino-4,6-dinitrotoluene	4800	
479-45-8	Tetryl	2260	
606-20-2	2,6-Dinitrotoluene	5050	
78-11-5	PETN	6380	
88-72-2	o-Nitrotoluene	5960	
98-95-3	Nitrobenzene	5280	
99-08-1	m-Nitrotoluene	5520	
99-35-4	1,3,5-Trinitrobenzene	4290	
99-65-0	m-Dinitrobenzene	4780	
99-99-0	p-Nitrotoluene	5680	

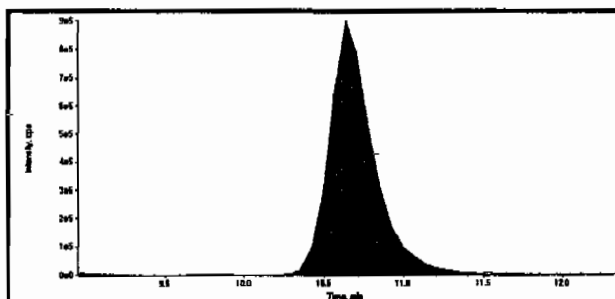
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

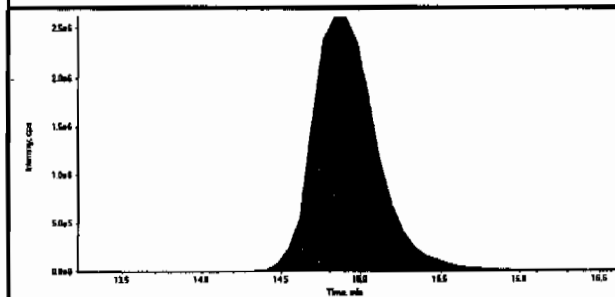
Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330021.wiff	Acquisition Date	3/30/2010 5:25:00 PM
Sample Name	1202045751	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



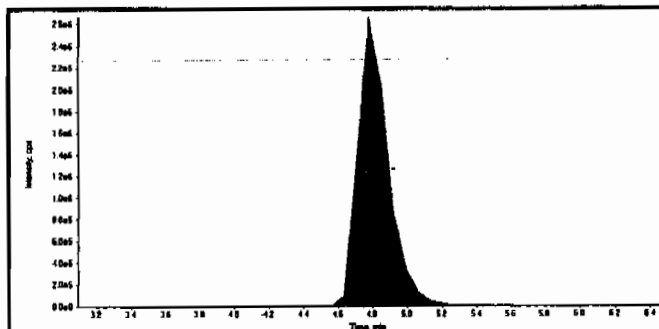
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.60
Actual RT:	10.60
Area Counts:	17400000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

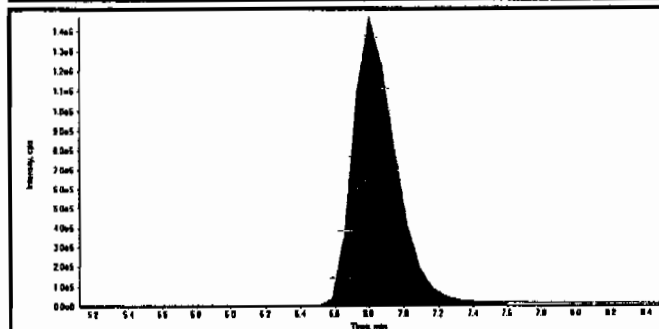


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.90
Actual RT:	14.90
Area Counts:	75200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.77
Actual RT:	4.77
Area Counts:	3.28e+007
Manual Modification	No
Amount:	443. (ng/mL)
% Accuracy:	N/A



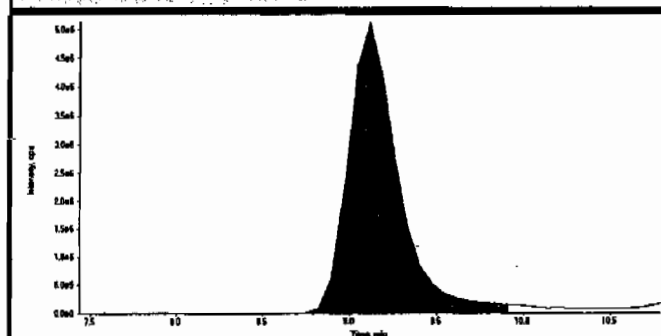
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.80
Actual RT:	6.80
Area Counts:	2.53e+007
Manual Modification	No
Amount:	531. (ng/mL)
% Accuracy:	N/A

Handwritten signature and date: 4/2/10

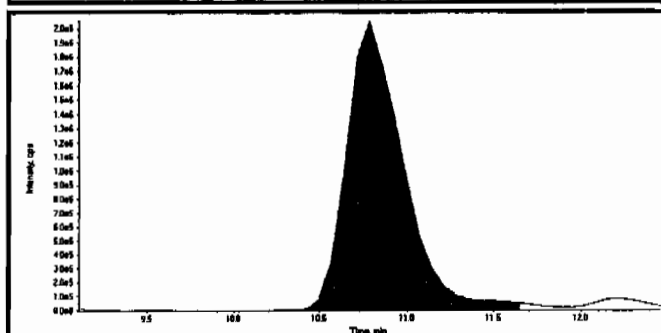
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

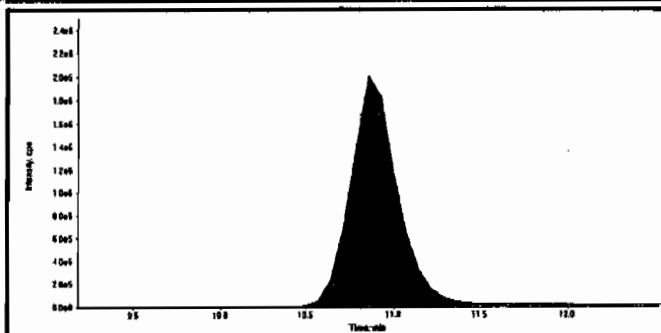
Data File	EXP0330021.wiff	Acquisition Date	3/30/2010 5:25:00 PM
Sample Name	1202045751	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



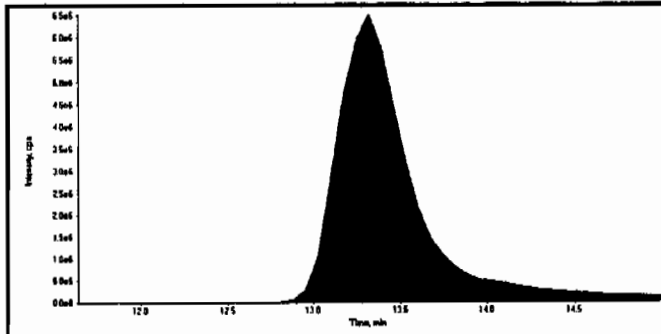
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	9.12
Actual RT:	9.12
Area Counts:	1.02e+008
Manual Modification	No
Amount:	429. (ng/mL)
% Accuracy:	N/A



Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.8
Actual RT:	10.8
Area Counts:	4.67e+007
Manual Modification	No
Amount:	478. (ng/mL)
% Accuracy:	N/A



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.9
Actual RT:	10.9
Area Counts:	3.76e+007
Manual Modification	No
Amount:	226. (ng/mL)
% Accuracy:	N/A

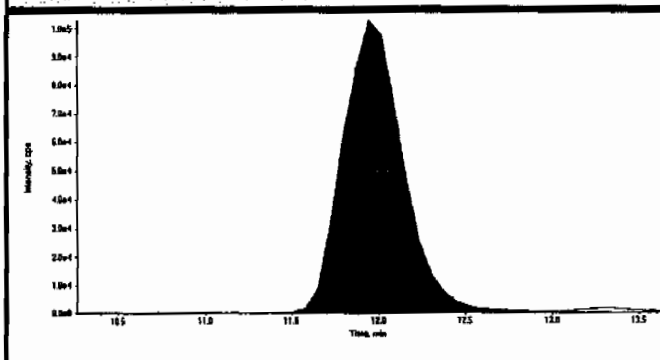


Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.3
Actual RT:	13.3
Area Counts:	2.04e+008
Manual Modification	No
Amount:	515. (ng/mL)
% Accuracy:	N/A

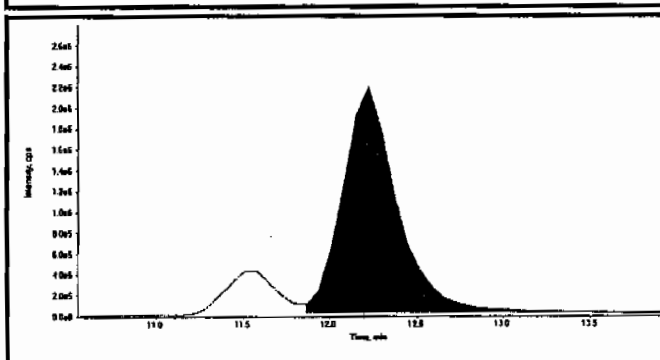
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

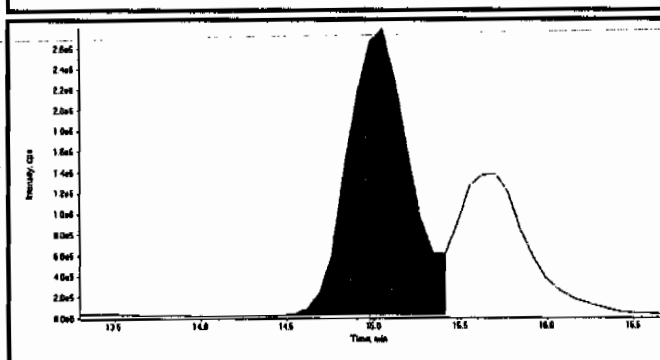
Data File	EXP0330021.wiff	Acquisition Date	3/30/2010 5:25:00 PM
Sample Name	1202045751	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



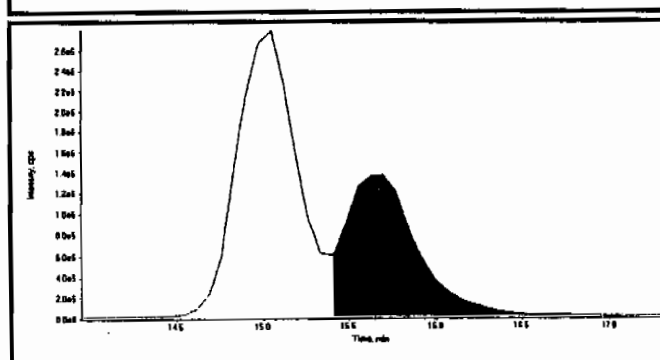
Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.9
Actual RT:	11.9
Area Counts:	2.47e+006
Manual Modification	No
Amount:	528. (ng/mL)
% Accuracy:	N/A



Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.2
Actual RT:	12.2
Area Counts:	4.75e+007
Manual Modification	No
Amount:	272. (ng/mL)
% Accuracy:	N/A

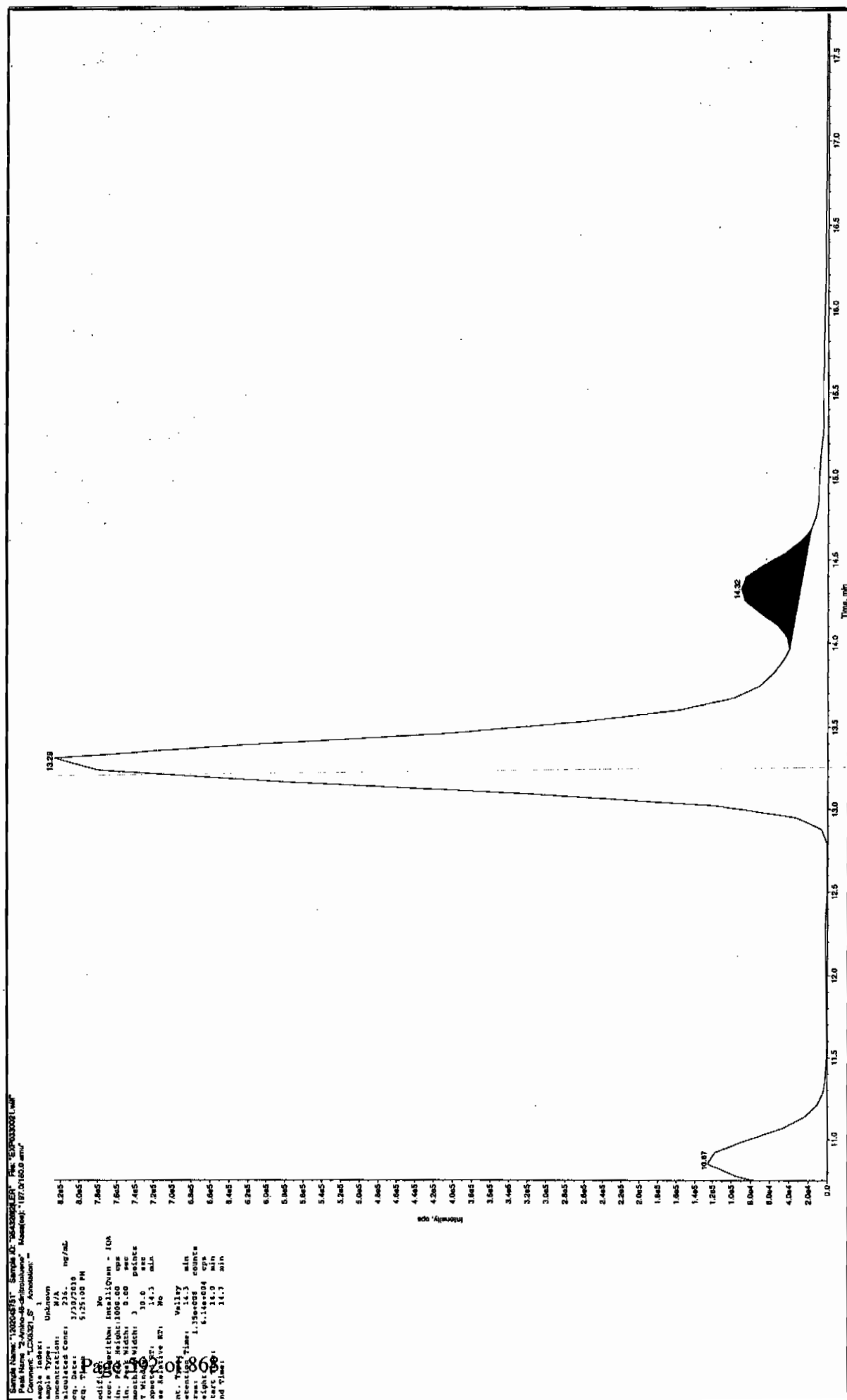


Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.0
Actual RT:	15.0
Area Counts:	6.86e+007
Manual Modification	No
Amount:	505. (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	15.7
Area Counts:	4.02e+007
Manual Modification	No
Amount:	486. (ng/mL)
% Accuracy:	N/A

Before Jan 4/1/10

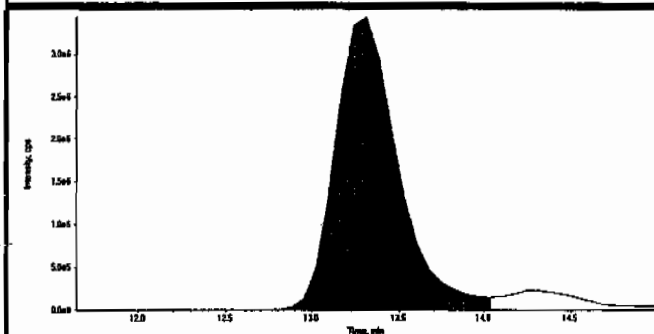


3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#3

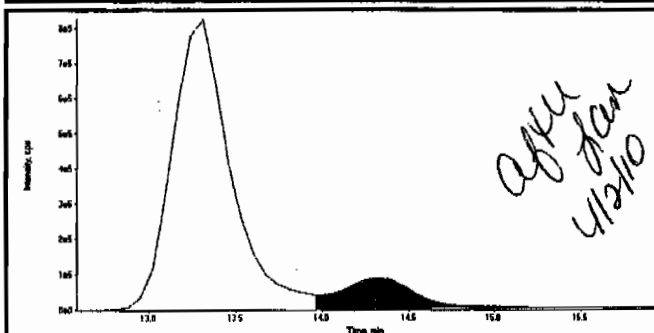
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

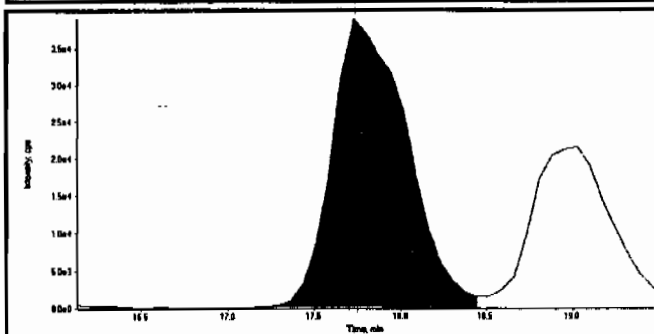
Data File	EXP0330021.wiff	Acquisition Date	3/30/2010 5:25:00 PM
Sample Name	1202045751	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



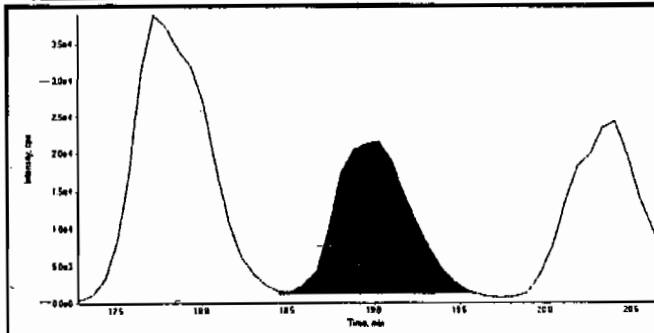
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.3
Actual RT:	13.3
Area Counts:	8.67e+007
Manual Modification	No
Amount:	571. (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.3
Actual RT:	14.3
Area Counts:	2.73e+006
Manual Modification	Yes
Amount:	480. (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.8
Actual RT:	17.7
Area Counts:	1.17e+006
Manual Modification	No
Amount:	596. (ng/mL)
% Accuracy:	N/A

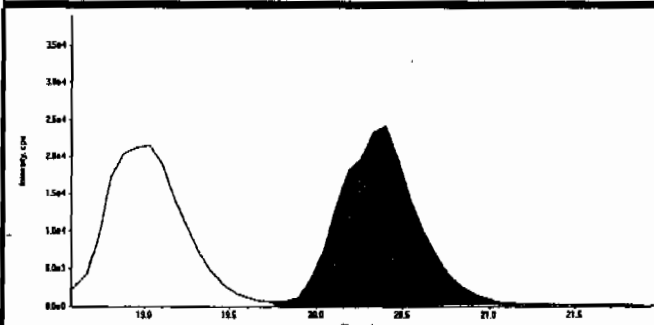


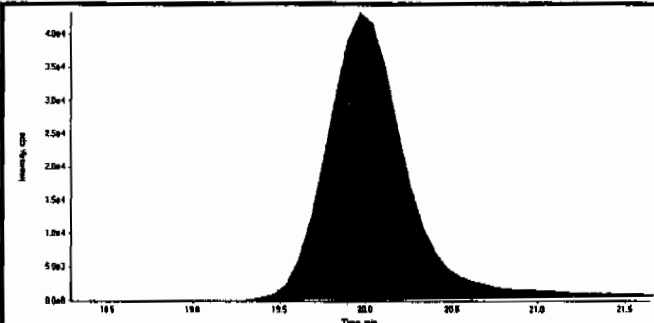
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	19.0
Actual RT:	19.0
Area Counts:	6.25e+005
Manual Modification	No
Amount:	568. (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 31/03/2010 4:24:00 PM
LCMSMS#3

Data File	EXP0330021.wiff	Acquisition Date	3/30/2010 5:25:00 PM
Sample Name	1202045751	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	954328 2 LER	Result Table	033010.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.3
	Actual RT:	20.4
	Area Counts:	7.51e+005
	Manual Modification	No
	Amount:	552. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	20.0
	Area Counts:	1.36e+006
	Manual Modification	No
	Amount:	638. (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8196(247193001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1864

Matrix: SOIL

GEL Sample ID: 1202045751

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 16-FEB-10

Extraction Type Sonication

Extraction Batch ID: 954324

Concentrated Extract Volume (mL) 10

Date Extracted: 22-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100086.wiff

Date Analyzed: 11-MAR-10 13:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5970	
59229-75-3	2,6-Diamino-4-nitrotoluene	4860	
618-87-1	3,5-Dinitroaniline	4990	
6629-29-4	2,4-Diamino-6-nitrotoluene	4860	
78-30-8	tris(o-cresyl) phosphate	4720	

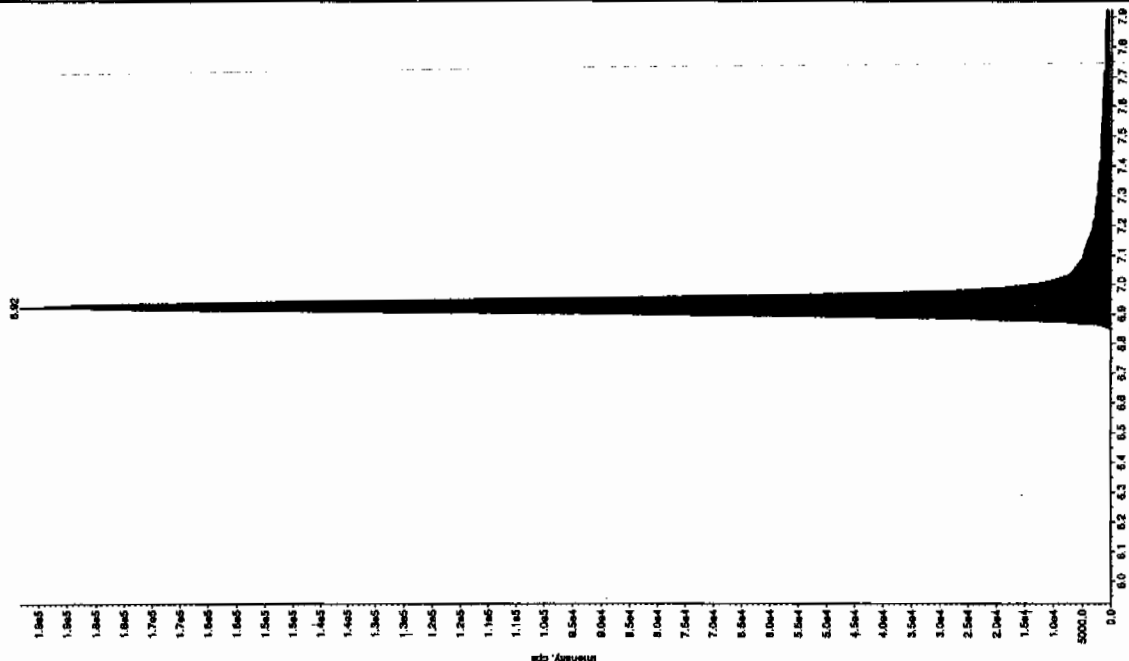
*Concentration =

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

See 3/14/10

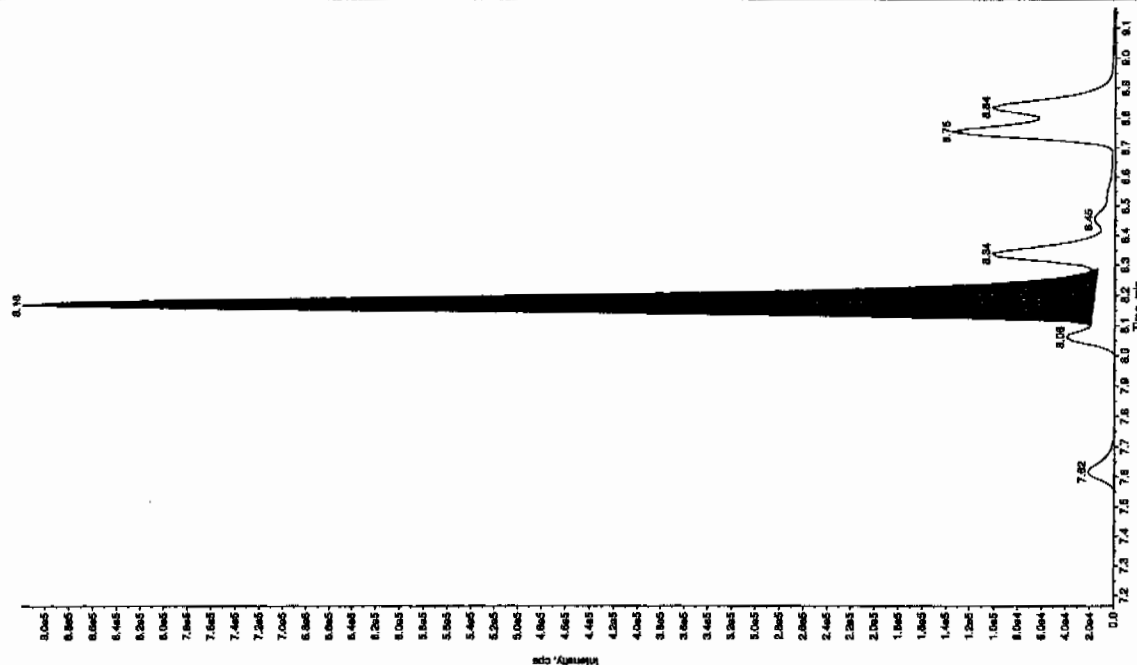
Sample Name: "1202045751" Sample ID: "95432821.ER" File: "EX503100086.wif"
 Peak Name: "TATE" Mass(es): "257.2204.9 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 597 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:46:21 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.52 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.52 min
 Area: 8.51e+005 counts
 Height: 193220.55 cps
 Start Time: 6.42 min
 End Time: 7.93 min



Sample Name: "1202045751" Sample ID: "95432821.ER" File: "EX503100086.wif"
 Peak Name: "35-Dibromotoluene" Mass(es): "182.046.0 amu"
 Comment: "LCX032125" Annotation: ""

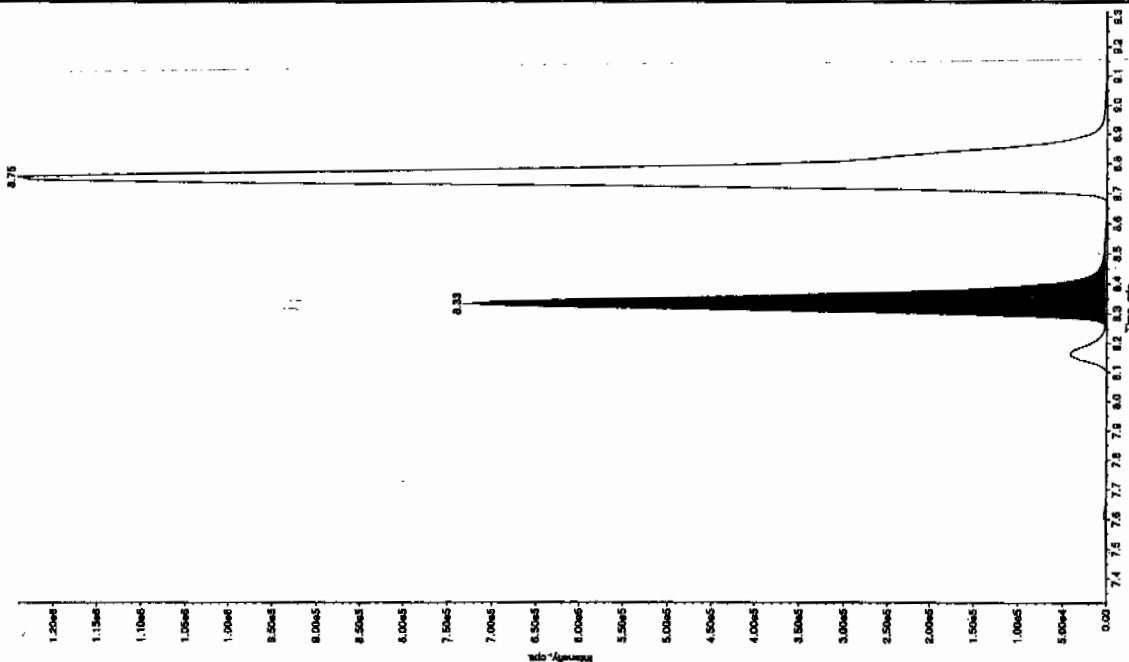
Sample Index: 1
 Sample Type: Unknown
 Concentration: 46 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 1:46:21 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 3.53e+006 counts
 Height: 901576.782 cps
 Start Time: 8.0 min
 End Time: 8.29 min



See 3/14/10

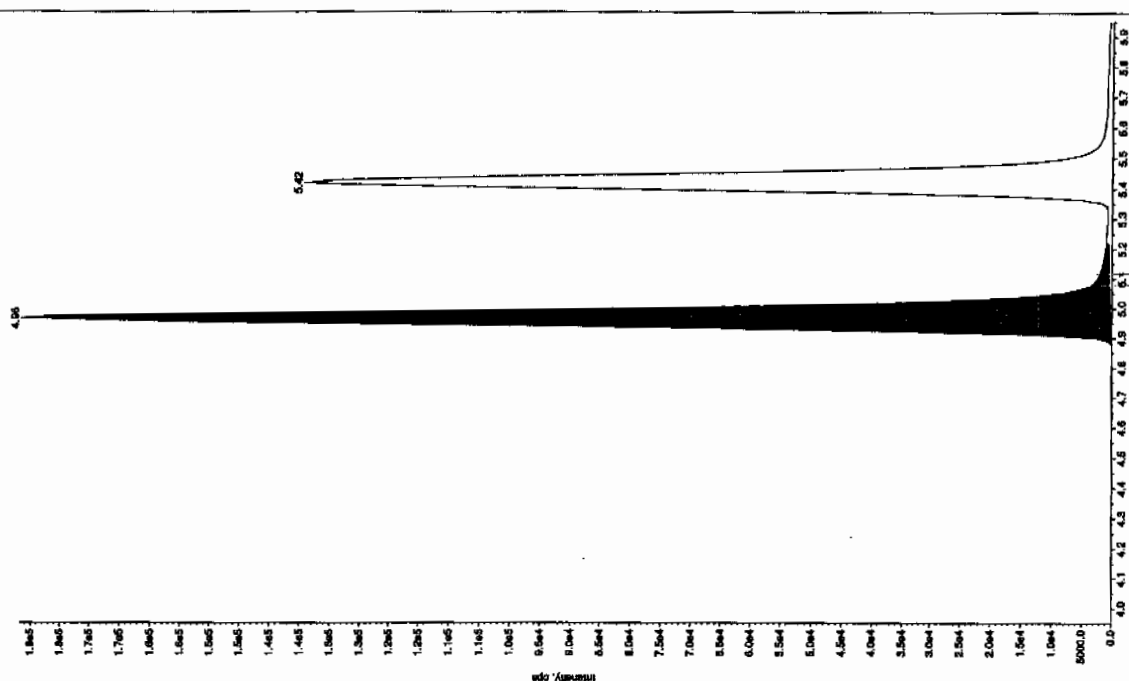
Sample Name: "1202046751" Sample ID: "9543282125" File: "EX503100086.wif"
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "182.17151.9 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.03 ng/mL
 Acq. Time: 1:46:21 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: 15.0 sec
 Expected RT: 8.32 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.66e+006 counts
 Height: 728937.092 cps
 Start Time: 8.26 min
 End Time: 8.34 min



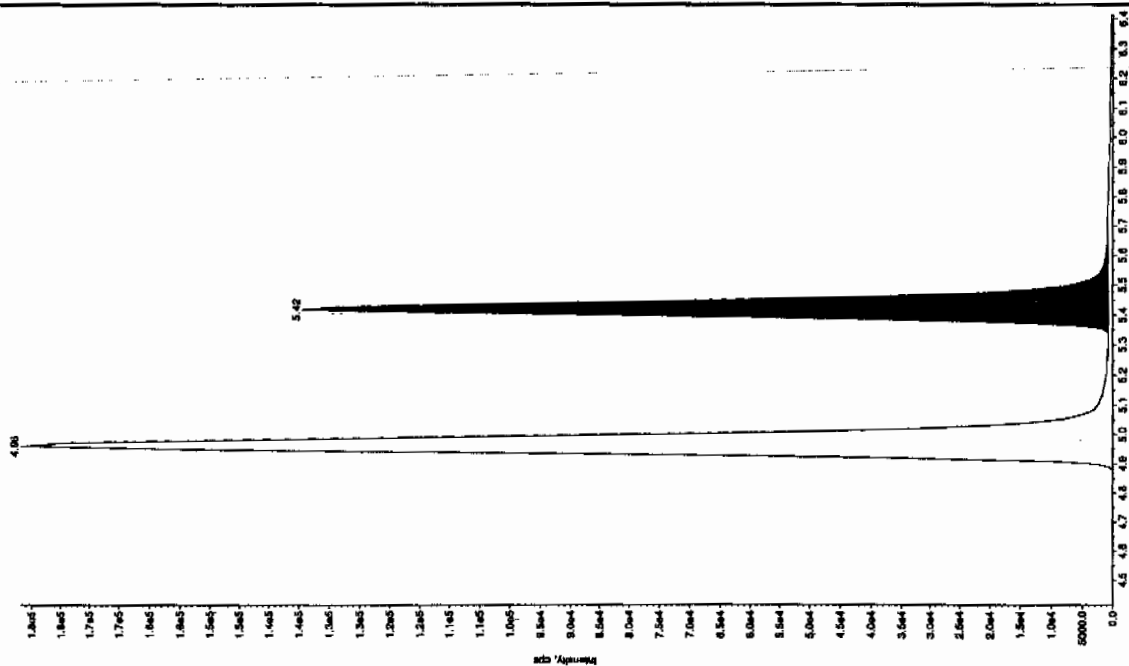
Sample Name: "1202046751" Sample ID: "9543282125" File: "EX503100086.wif"
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.03 ng/mL
 Acq. Time: 1:46:21 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: 4.95 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 7.44e+005 counts
 Height: 131644.852 cps
 Start Time: 4.87 min
 End Time: 5.22 min



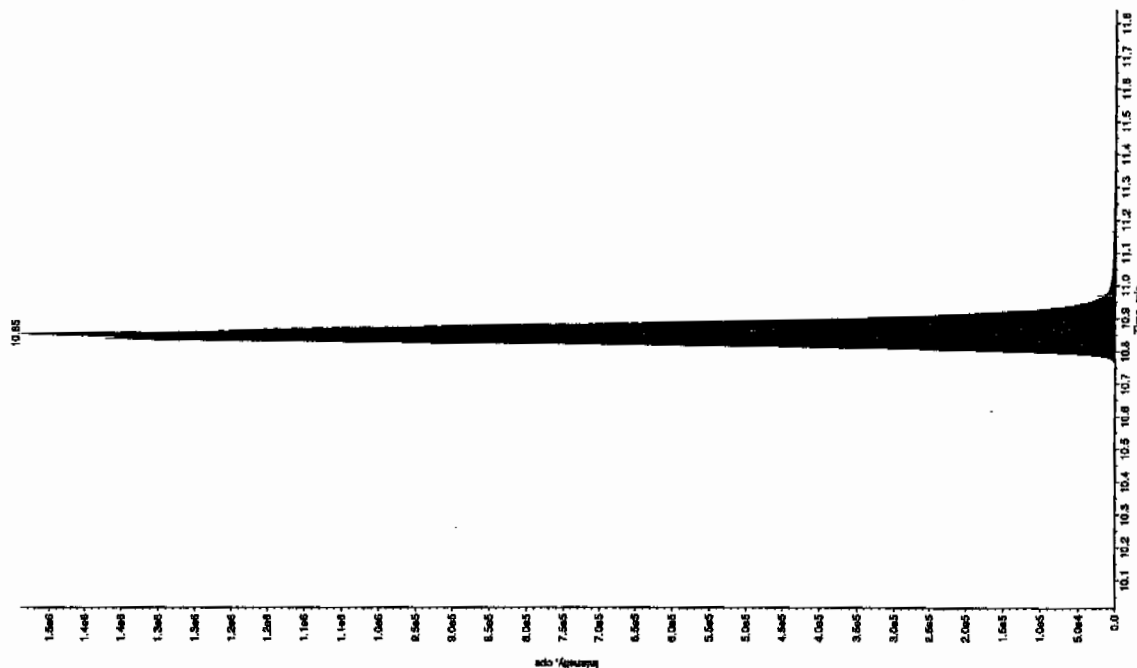
Sample Name: "1262045751" Sample ID: "954328232.ER" File: "EX503100086.wil"
 Peak Name: "24-Diamino-6-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCX552125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/11/2010 ng/mL
 Acq. Date: 11/46:21 PM
 Acq. Time: 11/46:21 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: 5.42 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Peak Height: 146455 counts
 Peak Width: 133693.558 cps
 Start Time: 5.31 min
 End Time: 5.58 min



Sample Name: "1262045751" Sample ID: "954328232.ER" File: "EX503100086.wil"
 Peak Name: "bis(2-oxo-1-phenyl) phosphine" Mass(es): "363.1791.0 amu"
 Comment: "LCX552125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/11/2010 ng/mL
 Acq. Date: 11/46:21 PM
 Acq. Time: 11/46:21 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 8000.00 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Peak Height: 1468573 counts
 Peak Width: 1486573.975 cps
 Start Time: 10.7 min
 End Time: 11.2 min



MISCELLANEOUS DATA

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

Batch ID: 954324 Verified by: _____

Analyst: Sirena White

Method: SW846 8330 PREP

Lab SOP: GL-OA-E-033 REV# 17

Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202045748 MB	22-FEB-2010 15:58:00	2	10	5
1202045749 LCS	22-FEB-2010 15:58:00	2	10	5
247193001	22-FEB-2010 15:58:00	2	10	5
1202045750 MS (247193001)	22-FEB-2010 15:58:00	2	10	5
1202045751 MSD (247193001)	22-FEB-2010 15:58:00	2	10	5
247193002	22-FEB-2010 15:58:00	2	10	5
247193003	22-FEB-2010 15:58:00	2	10	5
247193004	22-FEB-2010 15:58:00	2	10	5
247193005	22-FEB-2010 15:58:00	2	10	5
247193006	22-FEB-2010 15:58:00	2	10	5
247193007	22-FEB-2010 15:58:00	2	10	5
247193008	22-FEB-2010 15:58:00	2	10	5
247193009	22-FEB-2010 15:58:00	2	10	5
247193010	22-FEB-2010 15:58:00	2	10	5
247193011	22-FEB-2010 15:58:00	2	10	5
247193012	22-FEB-2010 15:58:00	2	10	5
247193013	22-FEB-2010 15:58:00	2	10	5
247193014	22-FEB-2010 15:58:00	2	10	5

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Final Solvent: ACN
LCS	1202045749	8321 Explosives LCS	DCX100208-03	.1	mL	
LCS	1202045749	8321 LANL Explosives Mix 10mg/L	UXX100210-02.3	1	mL	
MS	1202045750	8321 Explosives LCS	DCX100208-03	.1	mL	
MS	1202045750	8321 LANL Explosives Mix 10mg/L	UXX100210-02.3	.1	mL	
MSD	1202045751	8321 Explosives LCS	DCX100208-03	.1	mL	
MSD	1202045751	8321 LANL Explosives Mix 10mg/L	UXX100210-02.3	.1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	DCP100218-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#3

Date: 03/30/10

Method: 8321A-Modified

Extr. Injection Volume: 10uL

Int. Std.: UXX1003090-01.4

Sequence Number: 033010

Mobile Phase Lot#: 1290941, 1289686

Initial Calibration Date: 033010 Standard-Samp Reagent Lot#: 1284736, 1292884

Reviewed BY: *hank*
Date: *04/02/10*
SOP: GL-OA-E-056 Rev.12
Alt Check Std. ID: WXX100330-56

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXP0330001.wiff	XIBLK01	LER	3/30/2010 8:37			1		USE	B
EXP0330002.wiff	XIBLK01	LER	3/30/2010 9:03			1		USE	B
EXP0330003.wiff	WXXICAL-50	LER	3/30/2010 9:29			1		USE	I
EXP0330004.wiff	WXXICAL-51	LER	3/30/2010 9:56			1		USE	I
EXP0330005.wiff	WXXICAL-52	LER	3/30/2010 10:22			1		USE	I
EXP0330006.wiff	WXXICAL-53	LER	3/30/2010 10:48			1		USE	I
EXP0330007.wiff	WXXICAL-54	LER	3/30/2010 11:15			1		USE	I
EXP0330008.wiff	WXXICAL-55	LER	3/30/2010 11:41			1		USE	I
EXP0330009.wiff	XIBLK02	LER	3/30/2010 12:08			1		USE	B
EXP0330010.wiff	WXXICV	LER	3/30/2010 12:34			1		USE	C
EXP0330011.wiff	XIBLK03	LER	3/30/2010 13:00			1		USE	B
EXP0330012.wiff	WXXCRI	LER	3/30/2010 13:27			1		USE	C
EXP0330013.wiff	247830002	LER	3/30/2010 13:53	957192	10-2007	2	LANL	DUSE	S
EXP0330014.wiff	1202073691	LER	3/30/2010 14:20	966289	10-2428	2	LANL	USE	S
EXP0330015.wiff	1202041954	LER	3/30/2010 14:46	952706	10-1758	2	LANL	USE	S
EXP0330016.wiff	XIBLK04	LER	3/30/2010 15:12			1		USE	B
EXP0330017.wiff	1202045748	LER	3/30/2010 15:39	954328	10-1864	2	LANL	USE	S
EXP0330018.wiff	1202045749	LER	3/30/2010 16:05	954328	10-1864	2	LANL	USE	S
EXP0330019.wiff	247193001	LER	3/30/2010 16:32	954328	10-1864	2	LANL	USE	S
EXP0330020.wiff	1202045750	LER	3/30/2010 16:58	954328	10-1864	2	LANL	USE	S
EXP0330021.wiff	1202045751	LER	3/30/2010 17:25	954328	10-1864	2	LANL	USE	S
EXP0330022.wiff	247193002	LER	3/30/2010 17:51	954328	10-1864	2	LANL	USE	S
EXP0330023.wiff	WXXCCV	LER	3/30/2010 18:17			1		USE	C
EXP0330024.wiff	XIBLK05	LER	3/30/2010 18:44			1		USE	B
EXP0330025.wiff	WXXCRI	LER	3/30/2010 19:10			1		USE	C
EXP0330026.wiff	247193003	LER	3/30/2010 19:37	954328	10-1864	2	LANL	USE	S
EXP0330027.wiff	247193004	LER	3/30/2010 20:03	954328	10-1864	2	LANL	USE	S
EXP0330028.wiff	247193005	LER	3/30/2010 20:29	954328	10-1864	2	LANL	USE	S
EXP0330029.wiff	247193006	LER	3/30/2010 20:56	954328	10-1864	2	LANL	USE	S

EXP0330030.wiff	247193007	LER	3/30/2010 21:22	954328	10-1864	2	LANL	USE	S
EXP0330031.wiff	247193008	LER	3/30/2010 21:49	954328	10-1864	2	LANL	USE	S
EXP0330032.wiff	247193009	LER	3/30/2010 22:15	954328	10-1864	2	LANL	USE	S
EXP0330033.wiff	247193010	LER	3/30/2010 22:41	954328	10-1864	2	LANL	USE	S
EXP0330034.wiff	247193011	LER	3/30/2010 23:08	954328	10-1864	2	LANL	USE	S
EXP0330035.wiff	247193012	LER	3/30/2010 23:34	954328	10-1864	2	LANL	USE	S
EXP0330036.wiff	WXXCCV	LER	3/31/2010 0:01			1		USE	C
EXP0330037.wiff	XIBLK06	LER	3/31/2010 0:27			1		USE	B
EXP0330038.wiff	WXXCRI	LER	3/31/2010 0:53			1		USE	C
EXP0330039.wiff	247193013	LER	3/31/2010 1:20	954328	10-1864	2	LANL	DUSE-RA	S
EXP0330040.wiff	247193014	LER	3/31/2010 1:46	954328	10-1864	2	LANL	DUSE-RA	S
EXP0330041.wiff	XIBLK07	LER	3/31/2010 2:13			1		DUSE	B
EXP0330042.wiff	1202045643	LER	3/31/2010 2:39	954271	VARIOUS	2	LANL	DUSE-RA	S
EXP0330043.wiff	1202045644	LER	3/31/2010 3:05	954271	VARIOUS	2	LANL	DUSE-RA	S
EXP0330044.wiff	247172001	LER	3/31/2010 3:32	954271	10-1866	2	LANL	DUSE-RA	S
EXP0330045.wiff	247172002	LER	3/31/2010 3:58	954271	10-1866	2	LANL	DUSE-RA	S
EXP0330046.wiff	247175001	LER	3/31/2010 4:24	954271	10-1870-1	2	LANL	DUSE-RA	S
EXP0330047.wiff	247175002	LER	3/31/2010 4:51	954271	10-1870-1	2	LANL	DUSE-RA	S
EXP0330048.wiff	247175003	LER	3/31/2010 5:17	954271	10-1870-1	2	LANL	DUSE-RA	S
EXP0330049.wiff	WXXCCV	LER	3/31/2010 5:44			1		DUSE	C
EXP0330050.wiff	XIBLK08	LER	3/31/2010 6:10			1		DUSE	B
EXP0330051.wiff	WXXCRI	LER	3/31/2010 6:36			1		DUSE	C
EXP0330052.wiff	247175004	LER	3/31/2010 7:03	954271	10-1870-1	2	LANL	DUSE-RA	S
EXP0330053.wiff	247175005	LER	3/31/2010 7:29	954271	10-1870-1	2	LANL	DUSE-RA	S
EXP0330054.wiff	247175006	LER	3/31/2010 7:56	954271	10-1870-1	2	LANL	DUSE-RA	S
EXP0330055.wiff	XIBLK09	LER	3/31/2010 8:22			1		DUSE	B
EXP0330056.wiff	1202045806	LER	3/31/2010 8:49	954365	10-1872	2	LANL	DUSE-RA	S
EXP0330057.wiff	1202045807	LER	3/31/2010 9:15	954365	10-1872	2	LANL	DUSE-RA	S
EXP0330058.wiff	247200001	LER	3/31/2010 9:42	954365	10-1872	2	LANL	DUSE-RA	S
EXP0330059.wiff	1202045808	LER	3/31/2010 10:08	954365	10-1872	2	LANL	DUSE-RA	S
EXP0330060.wiff	1202045809	LER	3/31/2010 10:35	954365	10-1872	2	LANL	DUSE-RA	S
EXP0330061.wiff	247200002	LER	3/31/2010 11:01	954365	10-1872	2	LANL	DUSE-RA	S
EXP0330062.wiff	WXXCCV	LER	3/31/2010 11:27			1		DUSE	C
EXP0330063.wiff	XIBLK10	LER	3/31/2010 11:54			1		DUSE	B
EXP0330064.wiff	WXXCRI	LER	3/31/2010 12:20			1		DUSE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS#3

Date: 4/1/10

Method: 8321A-Modified

Extr. Injection Volume: 10ul

Int. Std.: UXX100309-01.4

Sequence Number: 040110

Mobile Phase Lot#: 1290941, 1289686

Initial Calibration Date: 040110

Standard-Samp Reagent Lot#: 1284736, 1292884

Reviewed BY: *[Signature]*
Date: 04/09/10
SOP: GL-OA-E-056 Rev.12
Alt Check Std. ID: WXX100401-56

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXP0401001.wiff	XIBLK01	LER	4/1/2010 11:38			1		USE	B
EXP0401002.wiff	XIBLK01	LER	4/1/2010 12:04			1		USE	B
EXP0401003.wiff	WXXICAL-50	LER	4/1/2010 12:30			1		USE	I
EXP0401004.wiff	WXXICAL-51	LER	4/1/2010 12:57			1		USE	I
EXP0401005.wiff	WXXICAL-52	LER	4/1/2010 13:23			1		USE	I
EXP0401006.wiff	WXXICAL-53	LER	4/1/2010 13:50			1		USE	I
EXP0401007.wiff	WXXICAL-54	LER	4/1/2010 14:16			1		USE	I
EXP0401008.wiff	WXXICAL-55	LER	4/1/2010 14:42			1		USE	I
EXP0401009.wiff	XIBLK02	LER	4/1/2010 15:09			1		USE	B
EXP0401010.wiff	WXXICV	LER	4/1/2010 15:35			1		USE	C
EXP0401011.wiff	XIBLK03	LER	4/1/2010 16:02			1		USE	B
EXP0401012.wiff	WXXCRI	LER	4/1/2010 16:28			1		USE	C
EXP0401013.wiff	247193013	LER	4/1/2010 16:54		10-1864	2	LANL	USE	S
EXP0401014.wiff	247193014	LER	4/1/2010 17:21		10-1864	2	LANL	USE	S
EXP0401015.wiff	XIBLK04	LER	4/1/2010 17:47			1		USE	B
EXP0401016.wiff	1202045643	LER	4/1/2010 18:14		VARIOUS	2	LANL	USE	S
EXP0401017.wiff	1202045644	LER	4/1/2010 18:40		VARIOUS	2	LANL	USE	S
EXP0401018.wiff	247172001	LER	4/1/2010 19:07		10-1866	2	LANL	USE	S
EXP0401019.wiff	247172002	LER	4/1/2010 19:33		10-1866	2	LANL	USE	S
EXP0401020.wiff	247175001	LER	4/1/2010 19:59		10-1870-1	2	LANL	USE	S
EXP0401021.wiff	247175002	LER	4/1/2010 20:26		10-1870-1	2	LANL	USE	S
EXP0401022.wiff	247175003	LER	4/1/2010 20:52		10-1870-1	2	LANL	USE	S
EXP0401023.wiff	WXXCCV	LER	4/1/2010 21:18			1		USE	C
EXP0401024.wiff	XIBLK05	LER	4/1/2010 21:45			1		USE	B
EXP0401025.wiff	WXXCRI	LER	4/1/2010 22:11			1		USE	C
EXP0401026.wiff	247175004	LER	4/1/2010 22:38		10-1870-1	2	LANL	DUSE-RA	S
EXP0401027.wiff	247175005	LER	4/1/2010 23:04		10-1870-1	2	LANL	DUSE-RA	S
EXP0401028.wiff	247175006	LER	4/1/2010 23:30		10-1870-1	2	LANL	DUSE-RA	S
EXP0401029.wiff	XIBLK06	LER	4/1/2010 23:57			1		DUSE	B

EXP0401030.wiff	1202045806	LER	4/2/2010 0:23	954365	10-1872	2	LANL	DUSE-RA	S
EXP0401031.wiff	1202045807	LER	4/2/2010 0:49	954365	10-1872	2	LANL	DUSE-RA	S
EXP0401032.wiff	247200001	LER	4/2/2010 1:16	954365	10-1872	5	LANL	DUSE-RA	S
EXP0401033.wiff	247200001	LER	4/2/2010 1:42	954365	10-1872	2	LANL	DUSE-RA	S
EXP0401034.wiff	1202045808	LER	4/2/2010 2:09	954365	10-1872	2	LANL	DUSE-RA	S
EXP0401035.wiff	1202045809	LER	4/2/2010 2:35	954365	10-1872	2	LANL	DUSE-RA	S
EXP0401036.wiff	WXXCCV	LER	4/2/2010 3:02			1		DUSE	C
EXP0401037.wiff	XIBLK07	LER	4/2/2010 3:28			1		DUSE	B
EXP0401038.wiff	WXXCRI	LER	4/2/2010 3:54			1		DUSE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/10/10
 Extr. Injection Volume: 10uL
 Sequence Number: 031010
 Initial Calibration Date: 031010

Method: 8321A-Modified

Int. Std.: N/A

Mobile Phase Lot#: 1268566

Standard-Samp Reagent Lot#: 1274562, 1261217

Reviewed By: HNN

Date: 03/15/10

SOP: GL-OA-E-056 Rev.12

Alt Check Std. ID: WXX100310-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03100001.wiff	XIBLK01	LER	3/10/2010 15:31			1		USE	B
EXS03100002.wiff	XIBLK01	LER	3/10/2010 15:47			1		USE	B
EXS03100003.wiff	WXXICAL-19	LER	3/10/2010 16:02			1		USE	I
EXS03100004.wiff	WXXICAL-20	LER	3/10/2010 16:18			1		USE	I
EXS03100005.wiff	WXXICAL-21	LER	3/10/2010 16:34			1		USE	I
EXS03100006.wiff	WXXICAL-22	LER	3/10/2010 16:50			1		USE	I
EXS03100007.wiff	WXXICAL-23	LER	3/10/2010 17:05			1		USE	I
EXS03100008.wiff	WXXICAL-24	LER	3/10/2010 17:21			1		USE	I
EXS03100009.wiff	WXXICAL-25	LER	3/10/2010 17:37			1		DUSE	I
EXS03100010.wiff	XIBLK02	LER	3/10/2010 17:52			1		USE	I
EXS03100011.wiff	WXXICV	LER	3/10/2010 18:08			1		USE	B
EXS03100012.wiff	XIBLK03	LER	3/10/2010 18:24			1		USE	C
EXS03100013.wiff	WXXCRI	LER	3/10/2010 18:39			1		USE	B
EXS03100014.wiff	1202049901	LER	3/10/2010 18:55			1		USE	C
EXS03100015.wiff	1202049902	LER	3/10/2010 19:11			1		USE	C
EXS03100016.wiff	247421002	LER	3/10/2010 19:26	956045	VARIOUS	2	LANL	USE	S
EXS03100017.wiff	1202049903	LER	3/10/2010 19:42	956045	VARIOUS	2	LANL	USE	S
EXS03100018.wiff	1202049904	LER	3/10/2010 19:58	956045	10-1920	2	LANL	USE	S
EXS03100019.wiff	247421003	LER	3/10/2010 20:14	956045	10-1920	2	LANL	USE	S
EXS03100020.wiff	247421004	LER	3/10/2010 20:29	956045	10-1920	2	LANL	USE	S
EXS03100021.wiff	247421005	LER	3/10/2010 20:45	956045	10-1920	2	LANL	USE	S
EXS03100022.wiff	247421006	LER	3/10/2010 21:01	956045	10-1920	2	LANL	USE	S
EXS03100023.wiff	247421007	LER	3/10/2010 21:16	956045	10-1920	2	LANL	USE	S
EXS03100024.wiff	WXXCCV	LER	3/10/2010 21:32			1		USE	C
EXS03100025.wiff	XIBLK04	LER	3/10/2010 21:48			1		USE	B
EXS03100026.wiff	WXXCRI	LER	3/10/2010 22:04			1		USE	C
EXS03100027.wiff	247450002	LER	3/10/2010 22:19	956045	10-1937	2	LANL	USE	S
EXS03100028.wiff	247450003	LER	3/10/2010 22:35	956045	10-1937	2	LANL	USE	S
EXS03100029.wiff	247450004	LER	3/10/2010 22:51	956045	10-1937	2	LANL	USE	S
EXS03100030.wiff	247450005	LER	3/10/2010 23:06	956045	10-1937	2	LANL	USE	S

EXS03100031.wiff	247450006	LER	3/10/2010 23:22	956045	10-1937	2	LANL	USE	S
EXS03100032.wiff	247450007	LER	3/10/2010 23:38	956045	10-1937	2	LANL	USE	S
EXS03100033.wiff	247562002	LER	3/10/2010 23:53	956045	10-1950	2	LANL	USE	S
EXS03100034.wiff	247562003	LER	3/11/2010 0:09	956045	10-1950	2	LANL	USE	S
EXS03100035.wiff	247562004	LER	3/11/2010 0:25	956045	10-1950	2	LANL	USE	S
EXS03100036.wiff	247562005	LER	3/11/2010 0:41	956045	10-1950	2	LANL	USE	S
EXS03100037.wiff	WXXCCV	LER	3/11/2010 0:56			1		USE	C
EXS03100038.wiff	XIBLK05	LER	3/11/2010 1:12			1		USE	B
EXS03100039.wiff	WXXCRI	LER	3/11/2010 1:28			1		USE	C
EXS03100040.wiff	247562006	LER	3/11/2010 1:43	956045	10-1950	2	LANL	USE	S
EXS03100041.wiff	247562007	LER	3/11/2010 1:59	956045	10-1950	2	LANL	USE	S
EXS03100042.wiff	247562008	LER	3/11/2010 2:15	956045	10-1950	2	LANL	USE	S
EXS03100043.wiff	247562009	LER	3/11/2010 2:31	956045	10-1950	2	LANL	USE	S
EXS03100044.wiff	WXXCCV	LER	3/11/2010 2:46			1		USE	C
EXS03100045.wiff	XIBLK06	LER	3/11/2010 3:02			1		USE	B
EXS03100046.wiff	WXXCRI	LER	3/11/2010 3:18			1		USE	C
EXS03100047.wiff	1202056029	LER	3/11/2010 3:33	958682	VARIOUS	2	LANL	USE	S
EXS03100048.wiff	1202056030	LER	3/11/2010 3:49	958682	VARIOUS	2	LANL	USE	S
EXS03100049.wiff	1202056034	LER	3/11/2010 4:05	958682	VARIOUS	2	LANL	USE	S
EXS03100050.wiff	248152002	LER	3/11/2010 4:21	958682	10-2101	2	LANL	USE	S
EXS03100051.wiff	248152004	LER	3/11/2010 4:36	958682	10-2101	2	LANL	USE	S
EXS03100052.wiff	248168006	LER	3/11/2010 4:52	958682	10-2107	2	LANL	USE	S
EXS03100053.wiff	1202056031	LER	3/11/2010 5:08	958682	10-2107	2	LANL	USE	S
EXS03100054.wiff	1202056032	LER	3/11/2010 5:23	958682	10-2107	2	LANL	USE	S
EXS03100055.wiff	WXXCCV	LER	3/11/2010 5:39			1		USE	C
EXS03100056.wiff	XIBLK07	LER	3/11/2010 5:55			1		USE	B
EXS03100057.wiff	WXXCRI	LER	3/11/2010 6:10			1		USE	C
EXS03100058.wiff	1202041884	LER	3/11/2010 6:26	952673	VARIOUS	2	LANL	USE	S
EXS03100059.wiff	1202041885	LER	3/11/2010 6:42	952673	VARIOUS	2	LANL	USE	S
EXS03100060.wiff	1202041891	LER	3/11/2010 6:58	952673	VARIOUS	2	LANL	USE	S
EXS03100061.wiff	246859005	LER	3/11/2010 7:13	952673	10-1779	2	LANL	USE	S
EXS03100062.wiff	246879005	LER	3/11/2010 7:29	952673	10-1776	2	LANL	USE	S
EXS03100063.wiff	246879012	LER	3/11/2010 7:45	952673	10-1776	2	LANL	USE	S
EXS03100064.wiff	246888006	LER	3/11/2010 8:00	952673	10-1773	2	LANL	USE	S
EXS03100065.wiff	246888010	LER	3/11/2010 8:16	952673	10-1773	2	LANL	USE	S
EXS03100066.wiff	WXXCCV	LER	3/11/2010 8:32			1		USE	C
EXS03100067.wiff	XIBLK08	LER	3/11/2010 8:48			1		USE	B

EXS03100068.wiff	WXXCRI	LER	3/11/2010 9:03	953344	VARIOUS	1	LANL	USE	C
EXS03100069.wiff	1202043685	LER	3/11/2010 9:19	953344	VARIOUS	2	LANL	USE	S
EXS03100070.wiff	1202043686	LER	3/11/2010 9:35	953344	10-1806	2	LANL	USE	S
EXS03100071.wiff	246965005	LER	3/11/2010 9:50	953344	10-1806	2	LANL	USE	S
EXS03100072.wiff	246965011	LER	3/11/2010 10:06	953344	10-1806	2	LANL	USE	S
EXS03100073.wiff	1202043687	LER	3/11/2010 10:22	953344	10-1806	2	LANL	USE	S
EXS03100074.wiff	1202043688	LER	3/11/2010 10:37	953344	10-1806	2	LANL	USE	S
EXS03100075.wiff	247035005	LER	3/11/2010 10:53	953344	10-1825	2	LANL	USE	S
EXS03100076.wiff	247035011	LER	3/11/2010 11:09	953344	10-1825	2	LANL	USE	S
EXS03100077.wiff	247041006	LER	3/11/2010 11:25	953344	10-1816	2	LANL	USE	S
EXS03100078.wiff	247041011	LER	3/11/2010 11:40	953344	10-1816	2	LANL	USE	S
EXS03100079.wiff	WXXCCV	LER	3/11/2010 11:56			1		USE	C
EXS03100080.wiff	XIBLK09	LER	3/11/2010 12:12			1		USE	B
EXS03100081.wiff	WXXCRI	LER	3/11/2010 12:27			1		USE	C
EXS03100082.wiff	1202045748	LER	3/11/2010 12:43	954328	10-1864	2	LANL	USE	S
EXS03100083.wiff	1202045749	LER	3/11/2010 12:59	954328	10-1864	2	LANL	USE	S
EXS03100084.wiff	247193001	LER	3/11/2010 13:14	954328	10-1864	2	LANL	USE	S
EXS03100085.wiff	1202045750	LER	3/11/2010 13:30	954328	10-1864	2	LANL	USE	S
EXS03100086.wiff	1202045751	LER	3/11/2010 13:46	954328	10-1864	2	LANL	USE	S
EXS03100087.wiff	247193002	LER	3/11/2010 14:02	954328	10-1864	2	LANL	USE	S
EXS03100088.wiff	247193003	LER	3/11/2010 14:17	954328	10-1864	2	LANL	USE	S
EXS03100089.wiff	247193004	LER	3/11/2010 14:33	954328	10-1864	2	LANL	USE	S
EXS03100090.wiff	247193005	LER	3/11/2010 14:49	954328	10-1864	2	LANL	USE	S
EXS03100091.wiff	247193006	LER	3/11/2010 15:04	954328	10-1864	2	LANL	USE	S
EXS03100092.wiff	WXXCCV	LER	3/11/2010 15:20			1		USE	C
EXS03100093.wiff	XIBLK10	LER	3/11/2010 15:36			1		USE	B
EXS03100094.wiff	WXXCRI	LER	3/11/2010 15:51			1		USE	C
EXS03100095.wiff	247193007	LER	3/11/2010 16:07	954328	10-1864	2	LANL	USE	S
EXS03100096.wiff	247193008	LER	3/11/2010 16:23	954328	10-1864	2	LANL	USE	S
EXS03100097.wiff	247193009	LER	3/11/2010 16:39	954328	10-1864	2	LANL	USE	S
EXS03100098.wiff	247193010	LER	3/11/2010 16:54	954328	10-1864	2	LANL	USE	S
EXS03100099.wiff	247193011	LER	3/11/2010 17:10	954328	10-1864	2	LANL	USE	S
EXS03100100.wiff	247193012	LER	3/11/2010 17:26	954328	10-1864	2	LANL	USE	S
EXS03100101.wiff	247193013	LER	3/11/2010 17:41	954328	10-1864	2	LANL	USE	S
EXS03100102.wiff	247193014	LER	3/11/2010 17:57	954328	10-1864	2	LANL	USE	S
EXS03100103.wiff	WXXCCV	LER	3/11/2010 18:13			1		USE	C
EXS03100104.wiff	XIBLK11	LER	3/11/2010 18:28			1		USE	B

EXS03100105.wiff	WXXCRI	LER	3/11/2010 18:44	957198	10-1975	1	LANL	USE	C
EXS03100106.wiff	1202052402	LER	3/11/2010 19:00	957198	10-1975	2	LANL	USE	S
EXS03100107.wiff	1202052403	LER	3/11/2010 19:16	957198	10-1975	2	LANL	USE	S
EXS03100108.wiff	247775003	LER	3/11/2010 19:31	957198	10-1975	2	LANL	USE	S
EXS03100109.wiff	1202052404	LER	3/11/2010 19:47	957198	10-1975	2	LANL	USE	S
EXS03100110.wiff	1202052405	LER	3/11/2010 20:03	957198	10-1975	2	LANL	USE	S
EXS03100111.wiff	247775004	LER	3/11/2010 20:18	957198	10-1975	2	LANL	USE	S
EXS03100112.wiff	247775005	LER	3/11/2010 20:34	957198	10-1975	2	LANL	USE	S
EXS03100113.wiff	247775006	LER	3/11/2010 20:50	957198	10-1975	2	LANL	USE	S
EXS03100114.wiff	247775007	LER	3/11/2010 21:06	957198	10-1975	2	LANL	USE	S
EXS03100115.wiff	247775008	LER	3/11/2010 21:21	957198	10-1975	2	LANL	USE	S
EXS03100116.wiff	WXXCCV	LER	3/11/2010 21:37			1		USE	C
EXS03100117.wiff	XIBLK12	LER	3/11/2010 21:53			1		USE	B
EXS03100118.wiff	WXXCRI	LER	3/11/2010 22:08			1		USE	C
EXS03100119.wiff	247775009	LER	3/11/2010 22:24	957198	10-1975	2	LANL	USE	S
EXS03100120.wiff	247775010	LER	3/11/2010 22:40	957198	10-1975	2	LANL	USE	S
EXS03100121.wiff	247775011	LER	3/11/2010 22:55	957198	10-1975	2	LANL	USE	S
EXS03100122.wiff	247775012	LER	3/11/2010 23:11	957198	10-1975	2	LANL	USE	S
EXS03100123.wiff	247775013	LER	3/11/2010 23:27	957198	10-1975	2	LANL	USE	S
EXS03100124.wiff	247775014	LER	3/11/2010 23:43	957198	10-1975	2	LANL	USE	S
EXS03100125.wiff	247775015	LER	3/11/2010 23:58	957198	10-1975	2	LANL	USE	S
EXS03100126.wiff	247775016	LER	3/12/2010 0:14	957198	10-1975	2	LANL	USE	S
EXS03100127.wiff	247775017	LER	3/12/2010 0:30	957198	10-1975	2	LANL	USE	S
EXS03100128.wiff	WXXCCV	LER	3/12/2010 0:45			1		USE	C
EXS03100129.wiff	XIBLK13	LER	3/12/2010 1:01			1		USE	B
EXS03100130.wiff	WXXCRI	LER	3/12/2010 1:17			1		USE	C
EXS03100131.wiff	1202047525	LER	3/12/2010 1:32	955063	VARIOUS	2	LANL	USE	S
EXS03100132.wiff	1202047526	LER	3/12/2010 1:48	955063	VARIOUS	2	LANL	USE	S
EXS03100133.wiff	247332002	LER	3/12/2010 2:04	955063	10-1905	2	LANL	USE	S
EXS03100134.wiff	1202047527	LER	3/12/2010 2:20	955063	10-1905	2	LANL	USE	S
EXS03100135.wiff	1202047528	LER	3/12/2010 2:35	955063	10-1905	2	LANL	USE	S
EXS03100136.wiff	247332003	LER	3/12/2010 2:51	955063	10-1905	2	LANL	USE	S
EXS03100137.wiff	247332004	LER	3/12/2010 3:07	955063	10-1905	2	LANL	USE	S
EXS03100138.wiff	247332005	LER	3/12/2010 3:22	955063	10-1905	2	LANL	USE	S
EXS03100139.wiff	247332006	LER	3/12/2010 3:38	955063	10-1905	2	LANL	USE	S
EXS03100140.wiff	247332007	LER	3/12/2010 3:54	955063	10-1905	2	LANL	USE	S
EXS03100141.wiff	WXXCCV	LER	3/12/2010 4:09			1		USE	C

EXS03100142.wiff	XIBLK14	LER	3/12/2010 4:25				1	USE	B
EXS03100143.wiff	WXXCRI	LER	3/12/2010 4:41				1	USE	C
EXS03100144.wiff	247332008	LER	3/12/2010 4:56	955063	10-1905	LANL	2	USE	S
EXS03100145.wiff	247343001	LER	3/12/2010 5:12	955063	10-1908	LANL	2	USE	S
EXS03100146.wiff	247343002	LER	3/12/2010 5:28	955063	10-1908	LANL	2	USE	S
EXS03100147.wiff	247343003	LER	3/12/2010 5:44	955063	10-1908	LANL	2	USE	S
EXS03100148.wiff	247343004	LER	3/12/2010 5:59	955063	10-1908	LANL	2	USE	S
EXS03100149.wiff	247343005	LER	3/12/2010 6:15	955063	10-1908	LANL	2	USE	S
EXS03100150.wiff	247343006	LER	3/12/2010 6:31	955063	10-1908	LANL	2	USE	S
EXS03100151.wiff	247343007	LER	3/12/2010 6:47	955063	10-1908	LANL	2	USE	S
EXS03100152.wiff	247343008	LER	3/12/2010 7:02	955063	10-1908	LANL	2	USE	S
EXS03100153.wiff	247343009	LER	3/12/2010 7:18	955063	10-1908	LANL	2	USE	S
EXS03100154.wiff	WXXCCV	LER	3/12/2010 7:34				1	USE	C
EXS03100155.wiff	XIBLK15	LER	3/12/2010 7:50				1	USE	B
EXS03100156.wiff	WXXCRI	LER	3/12/2010 8:05				1	USE	C
EXS03100157.wiff	247343010	LER	3/12/2010 8:21	955063	10-1908	LANL	2	USE	S
EXS03100158.wiff	247343011	LER	3/12/2010 8:37	955063	10-1908	LANL	2	USE	S
EXS03100159.wiff	WXXCCV	LER	3/12/2010 8:53				1	USE	C
EXS03100160.wiff	XIBLK16	LER	3/12/2010 9:08				1	USE	B
EXS03100161.wiff	WXXCRI	LER	3/12/2010 9:24				1	USE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 815646
Revision No.: 1

DATA EXCEPTION REPORT

Mo. Day Yr. 09-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 954328	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 247193(10-1864) Application Issues: Failed Recovery for LCS/LCSD Failed Recovery for MS/PS Failed RPD for MS/MSD, or PS/PSD			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The LCS(1202045749) did not meet acceptance criteria for the recovery of Tetryl at 29% with limits of 51-112% and o-Nitrotoluene at 122% with limits of 72-119%. 2. The MS(1202045750) did not meet acceptance criteria for the recovery of TATB at 199%. The limits are 29-155%. 3. The MS(1202045750)/MSD(1202045751) did not meet acceptance criteria for RPD limits for TATB at 49.9%. The limit is 30%.		1. The MS(1202045750) and MSD(1202045751) met acceptance criteria for Tetryl and O-Nitrotoluene. The data are reported. 2. The LCS(1202045749) and the MSD(1202045751) had passing recoveries for TATB. TATB was not detected in the parent sample. The data are considered unaffected and are reported. 3. TATB was not detected in the parent sample. The data are reported.	

Originator's Name:
Lynne Russell 09-APR-10

Data Validator/Group Leader:
Herbert Maier 09-APR-10

GC
SEMIVOLATILE
PCB
ANALYSIS

PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1864

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 956221
Prep Batch Number: 956219

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247193002	RE15-10-8186
247193006	RE15-10-8187
247193008	RE15-10-8190
247193013	RE15-10-8226
247193014	RE15-10-8211
1202050442	Method Blank (MB)
1202050443	Laboratory Control Sample (LCS)
1202050444	247245001(RE46-10-12664) Matrix Spike (MS)
1202050445	247245001(RE46-10-12664) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 15.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

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

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is

SDG 10-1864-PCB

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 calibration verification standards (CVS, ICV, or CCV) requirements have been met for this SDG.

Two of the five quantified peaks did not meet the acceptance criteria in one of the Aroclor-1260 standards bracketing the samples in this SDG; however, the average concentration of the five quantitated peaks met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

A LANL sample of similar matrix associated with another SDG (#10-1876) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data are included in the package summarizing the results.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

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

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

Data Exception (DER) Documentation

Data exception report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integration

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VIIs will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD1A.I_1	HP Gas 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.

SDG 10-1864-PCB

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Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Jimmi Cao

Date: 3/15/10

Roadmap for LANL 10-1864 PCB

This roadmap was analyzed by yip00818 on 02-25-2010, 08:28.

This roadmap was reviewed by jim01140 on 02-25-2010, 12:45.

This roadmap was packaged by yml on 03-13-2010, 07:18.

This roadmap was validated by jim01140 on 03-15-2010, 11:10.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/040f4001.d	247193002	sample	24-FEB-2010	13:48	10-1864.sub	RE15-10-8186	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/041f4101.d	247193006	sample	24-FEB-2010	14:00	10-1864.sub	RE15-10-8187	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/042f4201.d	247193008	sample	24-FEB-2010	14:13	10-1864.sub	RE15-10-8190	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/043f4301.d	247193013	sample	24-FEB-2010	14:25	10-1864.sub	RE15-10-8226	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/044f4401.d	247193014	sample	24-FEB-2010	14:38	10-1864.sub	RE15-10-8211	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/040b4001.d	247193002	sample	24-FEB-2010	13:48	10-1864.sub	RE15-10-8186	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/041b4101.d	247193006	sample	24-FEB-2010	14:00	10-1864.sub	RE15-10-8187	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/042b4201.d	247193008	sample	24-FEB-2010	14:13	10-1864.sub	RE15-10-8190	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/043b4301.d	247193013	sample	24-FEB-2010	14:25	10-1864.sub	RE15-10-8226	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/044b4401.d	247193014	sample	24-FEB-2010	14:38	10-1864.sub	RE15-10-8211	1.00000	956221	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/027f2701-1.d	1202050442	mb	24-FEB-2010	11:12	10-1864.sub	PBLK01	1.00000	956221	
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/028f2801-1.d	1202050443	lcs	24-FEB-2010	11:22	10-1864.sub	PBLK01LCS	1.00000	956221	

Back QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/027b2701-1.d	1202050442	mb	24-FEB-2010	11:12	10-1864.sub	PBLK01	1.00000	956221	
<input type="checkbox"/>	N	/chem/ecd1a.i/022410.b/028b2801-1.d	1202050443	lcs	24-FEB-2010	11:22	10-1864.sub	PBLK01LCS	1.00000	956221	

SAMPLE DATA SUMMARY

PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-1864	Date Collected: 02/10/2010 12:00	Matrix: R
Lab Sample ID: 247193002	Date Received: 02/16/2010 08:50	%Moisture: 1.2
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8186	Method: SW846 8082	SOP Ref: GL-OA-E-040
Batch ID: 956221	Inst: ECD1A.I	Dilution: 1
Run Date: 02/24/2010 13:48	Analyst: YS1	Inj. Vol: 1 uL
Prep Date: 02/23/2010 11:04	Aliquot: 30 g	Final Volume: 1 mL
Data File: 040f4001.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	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193006

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 2.5
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8187
Batch ID: 956221
Run Date: 02/24/2010 14:00
Prep Date: 02/23/2010 11:04
Data File: 041f4101.d
041b4101.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193008

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: .9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8190
Batch ID: 956221
Run Date: 02/24/2010 14:13
Prep Date: 02/23/2010 11:04
Data File: 042f4201.d
042b4201.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	U	3.36	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	U	3.36	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193014

Client ID: RE15-10-8211
Batch ID: 956221
Run Date: 02/24/2010 14:38
Prep Date: 02/23/2010 11:04
Data File: 044f4401.d
044b4401.d

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

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

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1864	Date Collected:	02/10/2010 12:00	Matrix:	R
Lab Sample ID:	247193013	Date Received:	02/16/2010 08:50	%Moisture:	2.4
Client ID:	RE15-10-8226	Client:	LANL010	Project:	LANL01004
Batch ID:	956221	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/24/2010 14:25	Inst:	ECD1A.I	Dilution:	1
Prep Date:	02/23/2010 11:04	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	043f4301.d	Aliquot:	30 g	Final Volume:	1 mL
	043b4301.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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

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SDG Number: 10-1864

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 #
1202050442	MB for batch 956219	59	54	71	66
1202050443	LCS for batch 956219	62	58	59	69
247193002	RE15-10-8186	42	40	62	59
247193006	RE15-10-8187	42	41	69	64
247193008	RE15-10-8190	39	38	61	61
247193013	RE15-10-8226	37	36	52	62
247193014	RE15-10-8211	36	34	66	63

Surrogate

4CMX = 4cmx

DCB = Decachlorobiphenyl

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Acceptance Limits

(32%-120%)

(30%-116%)

PCB

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**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-1864

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 956219

Matrix: SOIL

Lab Sample ID:1202050443

Instrument: ECD1A.I

Analysis Date: 02/24/2010 11:22

Dilution: 1

Analyst: YS1

Prep Batch ID: 956219

Inj. Vol: 1 uL

Batch ID: 956221

CAS No	Paramname	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	21.2	64	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	27.0	81	45-118

PCB

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**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-1876

Client ID: RE46-10-12664MS

Lab Sample ID: 1202050444

Instrument: ECD1A.I

Analyst: YS1

Inj. Vol: 1 uL

Sample Type: Matrix Spike

Matrix: S

%Moisture: 10

Analysis Date: 02/24/2010 15:24

Dilution: 5

Prep Batch ID: 956219

Batch ID: 956221

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	23.7	64	23-119
11096-82-5	MS Aroclor-1260	37.0	0.00 U	22.8	62	28-124

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1876

Sample Type: Matrix Spike Duplicate

Client ID: RE46-10-12664MSD

Matrix: S

Lab Sample ID:1202050445

%Moisture: 10

Instrument: ECD1A.I

Analysis Date: 02/24/2010 15:37

Dilution: 5

Analyst: YS1

Prep Batch ID: 956219

Inj. Vol: 1 uL

Batch ID: 956221

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	37.0	0.00	U 25.7	69	23-119	8	0-28
11096-82-5	MSD Aroclor-1260	37.0	0.00	U 26.9	73	28-124	17	0-30

Method Blank Summary

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SDG Number:	10-1864	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 956219	Instrument ID:	ECD1A1_2	Data File:	027b2701-1.d
Lab Sample ID:	1202050442		ECD1A1_1		027f2701-1.d
Column:	CLP2	Prep Date:	02/23/2010 11:04	Analyzed:	02/24/10 11:12
	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 956219	1202050443	028f2801-1.d 028b2801-1.d	02/24/10	1122
02 RE15-10-8186	247193002	040f4001.d 040b4001.d	02/24/10	1348
03 RE15-10-8187	247193006	041f4101.d 041b4101.d	02/24/10	1400
04 RE15-10-8190	247193008	042f4201.d 042b4201.d	02/24/10	1413
05 RE15-10-8226	247193013	043f4301.d 043b4301.d	02/24/10	1425
06 RE15-10-8211	247193014	044f4401.d 044b4401.d	02/24/10	1438

SAMPLE DATA

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1864
Lab Sample ID: 247193002Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 1.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022410.b/040f4001.d

Lab Smp Id: 247193002

Client Smp ID: RE15-10-8186

Inj Date : 24-FEB-2010 13:48

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247193002|1|

Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8186|||

Comment :

Method : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 13:47 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 40

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1864.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclpl

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	1.16070	% Moisture

Cpnd Variable

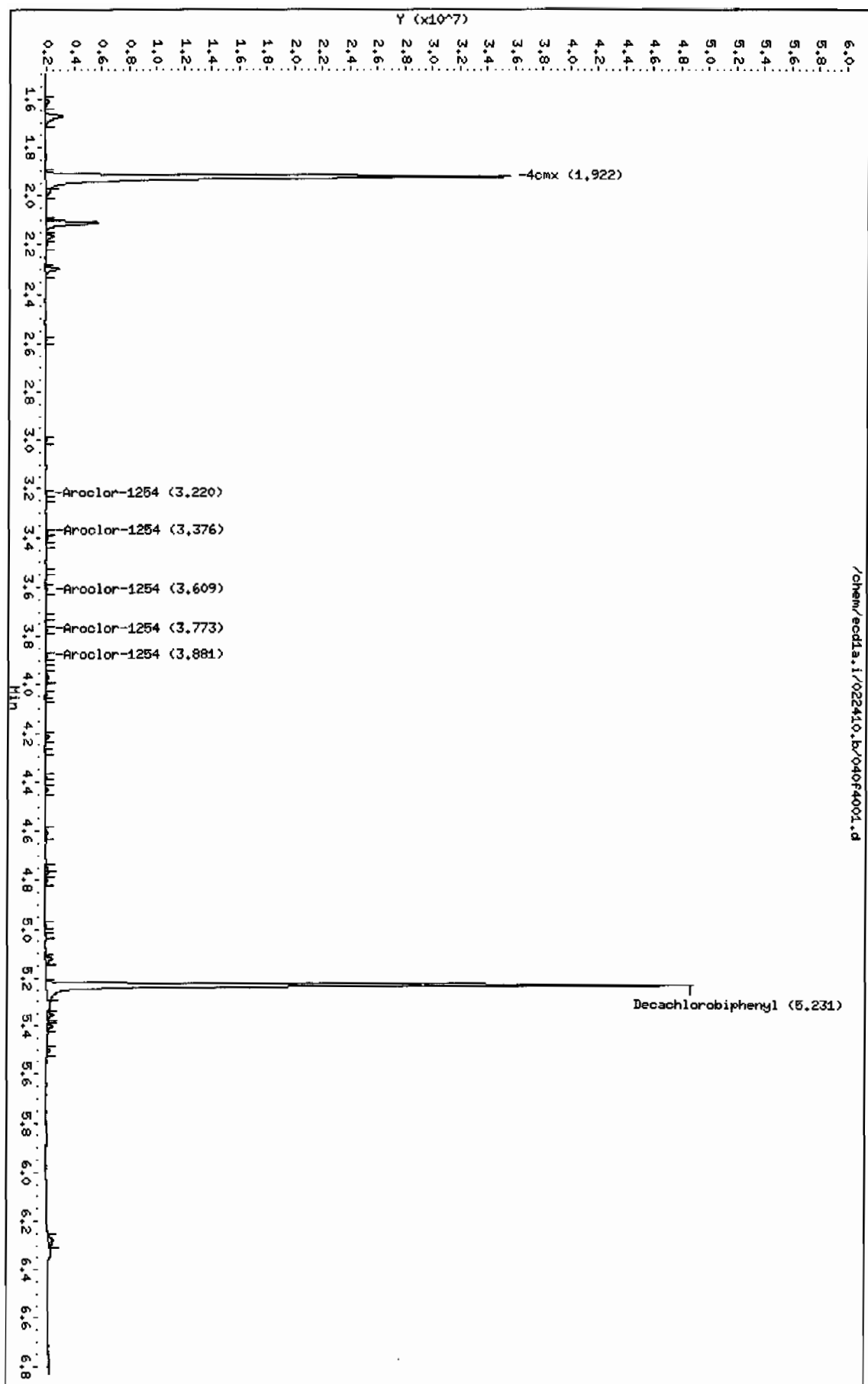
Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.922	1.922	0.000	35794125 83.1190	2.8	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.231	5.231	0.000	38401029 124.967	4.2	80.00- 120.00	100.00	

Data File: /chem/ecdl.a.i/022410.b/040f4001.d
Date: 24-FEB-2010 13:48
Client ID: RELB-10-8186
Sample Info: 124719300211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YS1
Column diameter: 0.25



Data File: /chem/ecdla.i/022410.b/040b4001.d
Report Date: 24-Feb-2010 14:18

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022410.b/040b4001.d

Lab Smp Id: 247193002

Client Smp ID: RE15-10-8186

Inj Date : 24-FEB-2010 13:48

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247193002|1|

Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8186|

Comment :

Method : /chem/ecdla.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 24-Feb-2010 13:47 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 40

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1864.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	1.16070	% Moisture

Cpnd Variable

Local Compound Variable

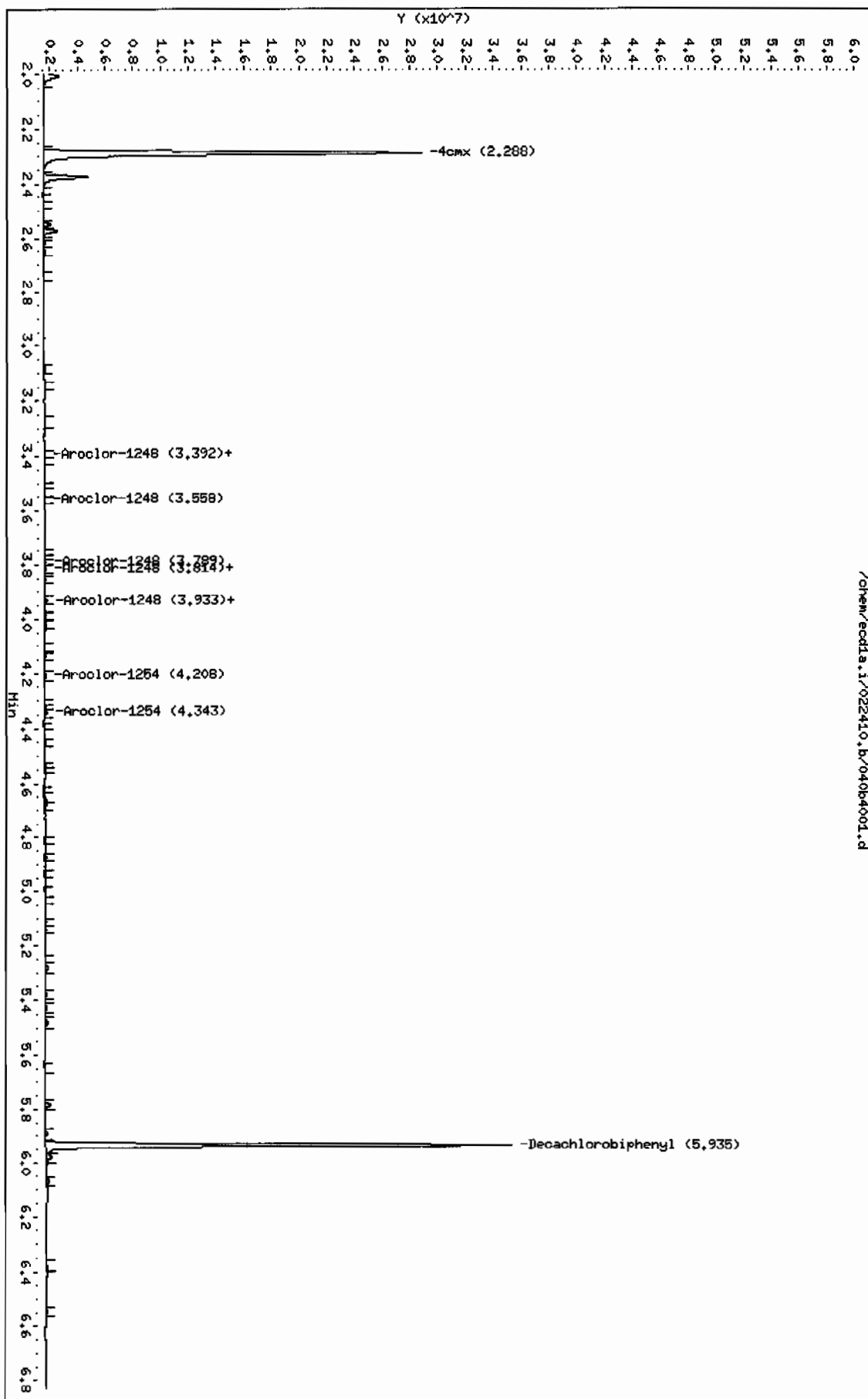
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8		
2.288	2.288	0.000	24030093 80.8014	2.7	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.935	5.935	0.000	24777936 117.154	4.0	80.00- 120.00	100.00	

Data File: /chem/ecdda.i/022410.b/040b4001.d
Date: 24-FEB-2010 13:48
Client ID: RE15-10-8186
Sample Info: 1247193002111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

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PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1864
Lab Sample ID: 247193006Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 2.5
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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

Report Date: 24-Feb-2010 14:17

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022410.b/041f4101.d

Lab Smp Id: 247193006

Client Smp ID: RE15-10-8187

Inj Date : 24-FEB-2010 14:00

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247193006|1|

Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8187|||

Comment :

Method : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 13:47 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 41

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1864.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	2.48730	% Moisture

Cpnd Variable

Local Compound Variable

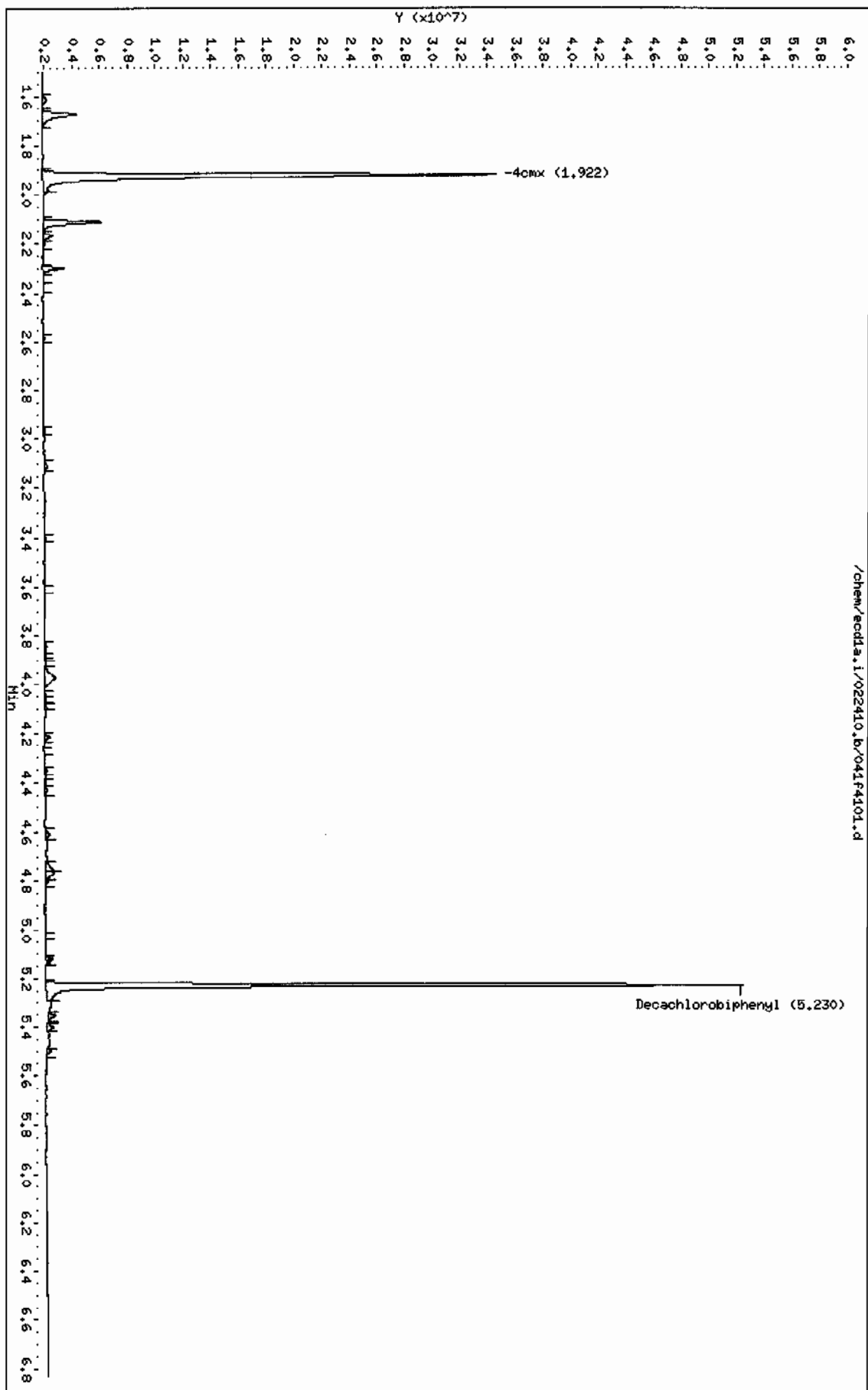
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx						CAS #: 877-09-8	
1.922	1.922	0.000	36134749 83.9100	2.9	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
5.230	5.231	-0.001	42193894 137.310	4.7	80.00- 120.00	100.00	

Data File: /chem/eod1a.i/022410.b/041f4101.d
Date : 24-FEB-2010 14:00
Client ID: RE15-10-8187
Sample Info: 12471930611/
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

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Data File: /chem/ecdla.i/022410.b/041b4101.d
Report Date: 24-Feb-2010 14:19

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/022410.b/041b4101.d
Lab Smp Id: 247193006 Client Smp ID: RE15-10-8187
Inj Date : 24-FEB-2010 14:00
Operator : YSl Inst ID: ecdla.i
Smp Info : |247193006|1|
Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8187|||
Comment :
Method : /chem/ecdla.i/022410.b/ECD1-B-8082-022210.m
Meth Date : 24-Feb-2010 13:47 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1864.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	2.48730	% Moisture

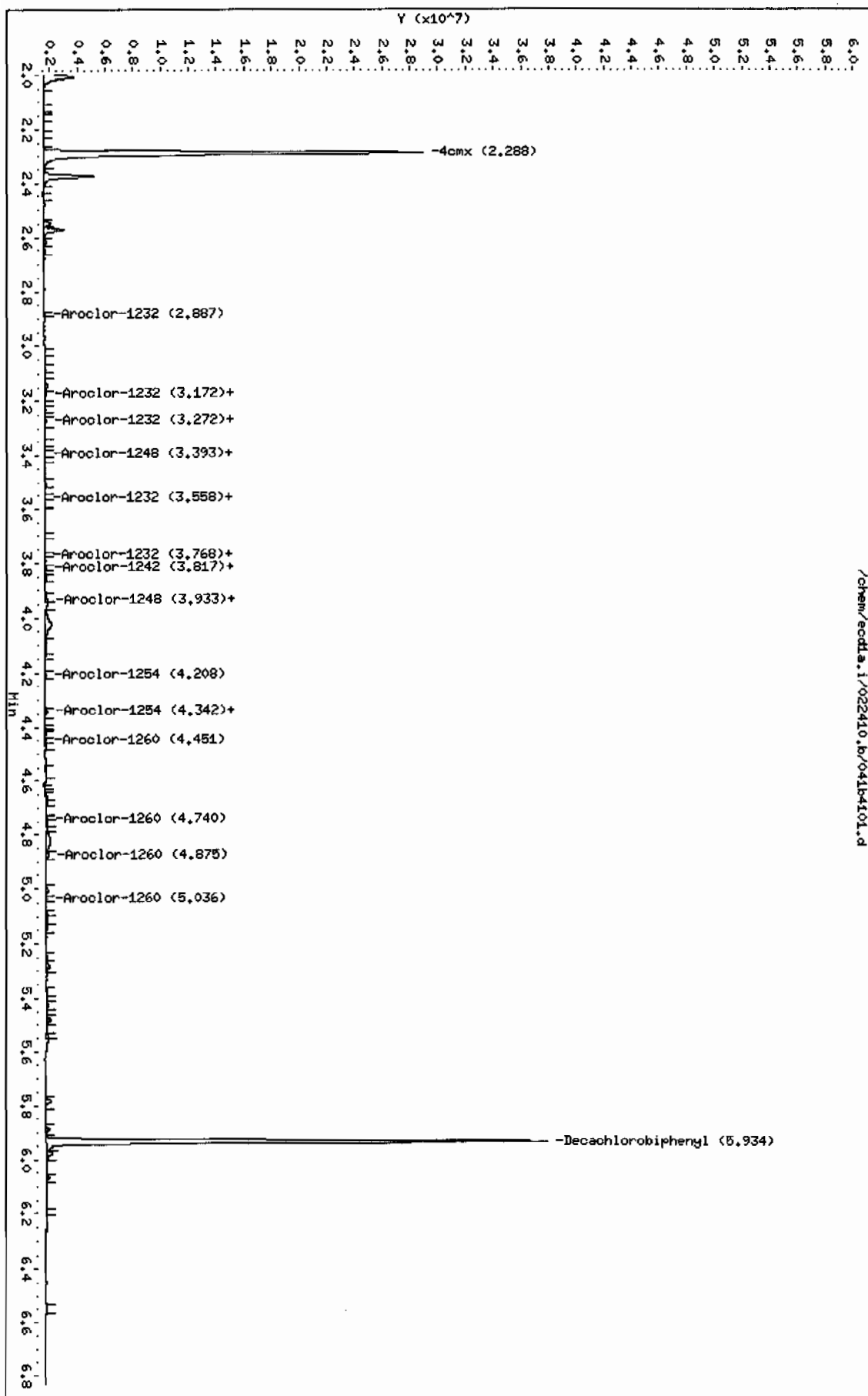
Cpnd Variable Local Compound Variable

CONCENTRATIONS					
			ON-COL	FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8	
2.288	2.288	0.000	24225824 81.4596	2.8	80.00- 120.00 100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3	
5.934	5.935	-0.001	27161947 128.426	4.4	80.00- 120.00 100.00

Data File: /chem/eod1a.i/022410.b/041b4101.d
Date : 24-FEB-2010 14:00
Client ID: RELS-10-8187
Sample Info: 124719300611
Volume Injected (uL): 1.0
Column phase: QLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



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Certificate of Analysis
Sample SummarySDG Number: 10-1864
Lab Sample ID: 247193008Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
% Moisture: .9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOWClient ID: RE15-10-8190
Batch ID: 956221
Run Date: 02/24/2010 14:13
Prep Date: 02/23/2010 11:04
Data File: 042f4201.d
042b4201.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	U	3.36	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	U	3.36	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

Data File: /chem/ecdla.i/022410.b/042f4201.d
Report Date: 25-Feb-2010 06:09

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022410.b/042f4201.d

Lab Smp Id: 247193008

Client Smp ID: RE15-10-8190

Inj Date : 24-FEB-2010 14:13

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247193008|1|

Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8190|||

Comment :

Method : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 25-Feb-2010 06:05 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 42

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1864.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	0.92510	% Moisture

Cpnd Variable

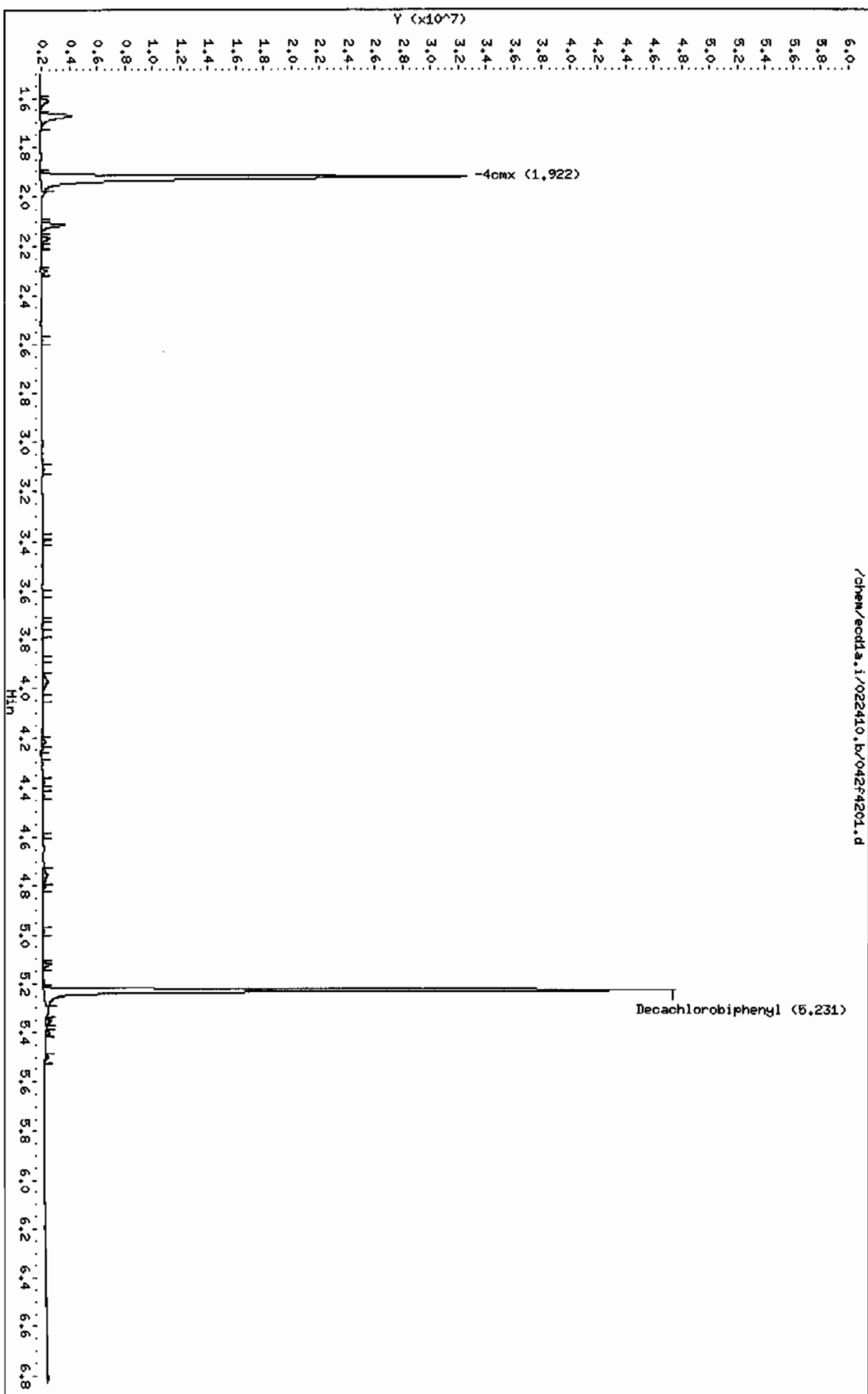
Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
\$ 11 4cmx						CAS #: 877-09-8	
1.922	1.922	0.000	33447942 77.6709	2.6	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
5.231	5.231	0.000	37712375 122.726	4.1	80.00- 120.00	100.00	

Data File: /chem/eod1a.i/022410.b/042f4201.d
Date : 24-FEB-2010 14:13
Client ID: REIS-10-8190
Sample Info: 124719300811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/022410.b/042b4201.d

Lab Smp Id: 247193008

Client Smp ID: RE15-10-8190

Inj Date : 24-FEB-2010 14:13

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |247193008|1|

Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8190|||

Comment :

Method : /chem/ecd1a.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 25-Feb-2010 06:10 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 42

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1864.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	0.92510	% Moisture

Cpnd Variable

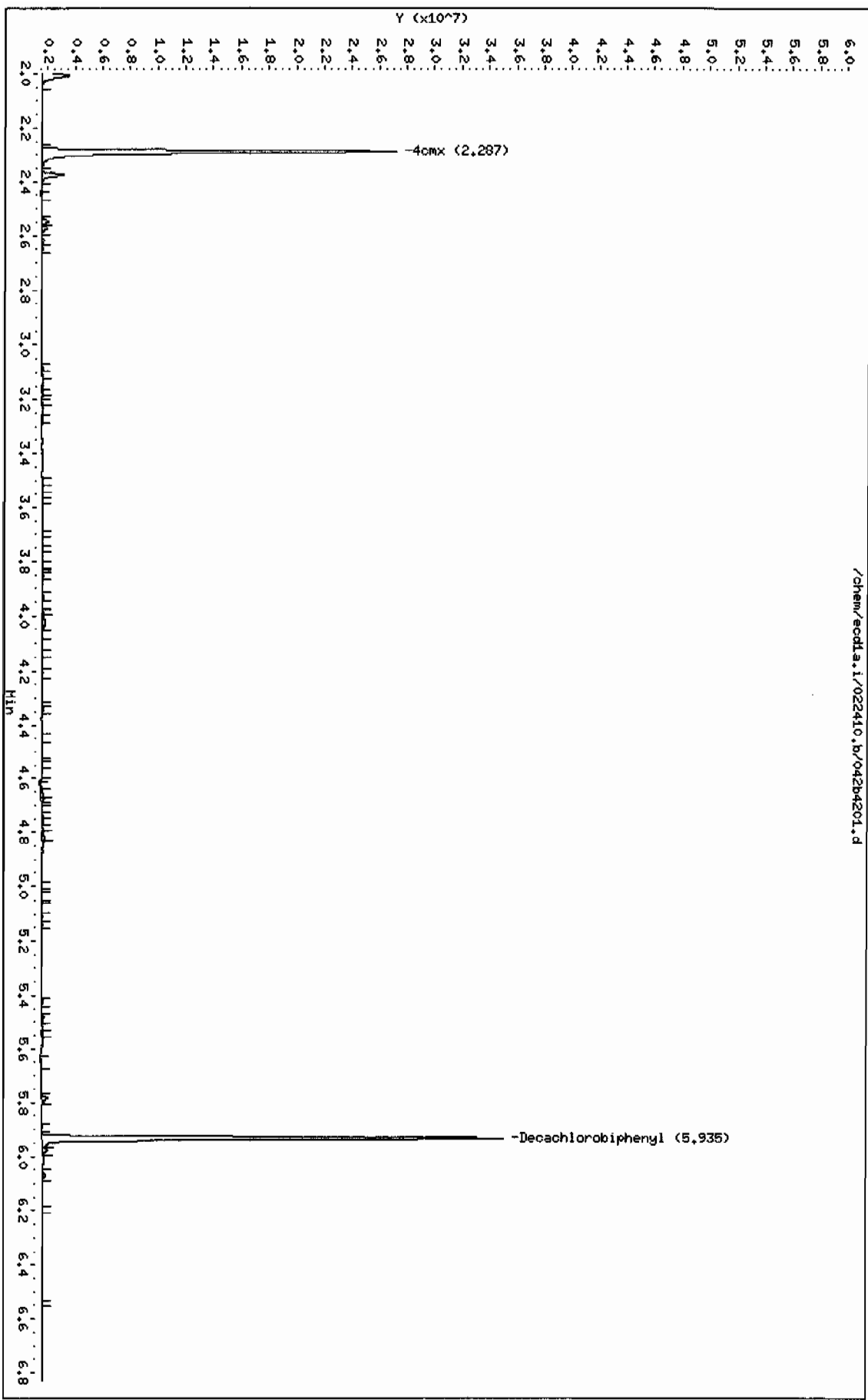
Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
2.287	2.288	-0.001	22508730	75.6858	2.5 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.935	5.935	0.000	25922336	122.565	4.1 80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/022410.b/042b4201.d
Date : 24-FEB-2010 14:13
Client ID: RELS-10-8190
Sample Info: 124719300811
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25



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Certificate of Analysis

Sample Summary

SDG Number: 10-1864
Lab Sample ID: 247193014

Client ID: RE15-10-8211
Batch ID: 956221
Run Date: 02/24/2010 14:38
Prep Date: 02/23/2010 11:04
Data File: 044f4401.d
044b4401.d

Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/022410.b/044f4401.d
Lab Smp Id: 247193014 Client Smp ID: RE15-10-8211
Inj Date : 24-FEB-2010 14:38
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |247193014|1|
Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8211|||
Comment :
Method : /chem/ecd1a.i/022410.b/ECD1-F-8082-022210.m
Meth Date : 25-Feb-2010 06:11 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 44
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1864.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	1.22950	% Moisture

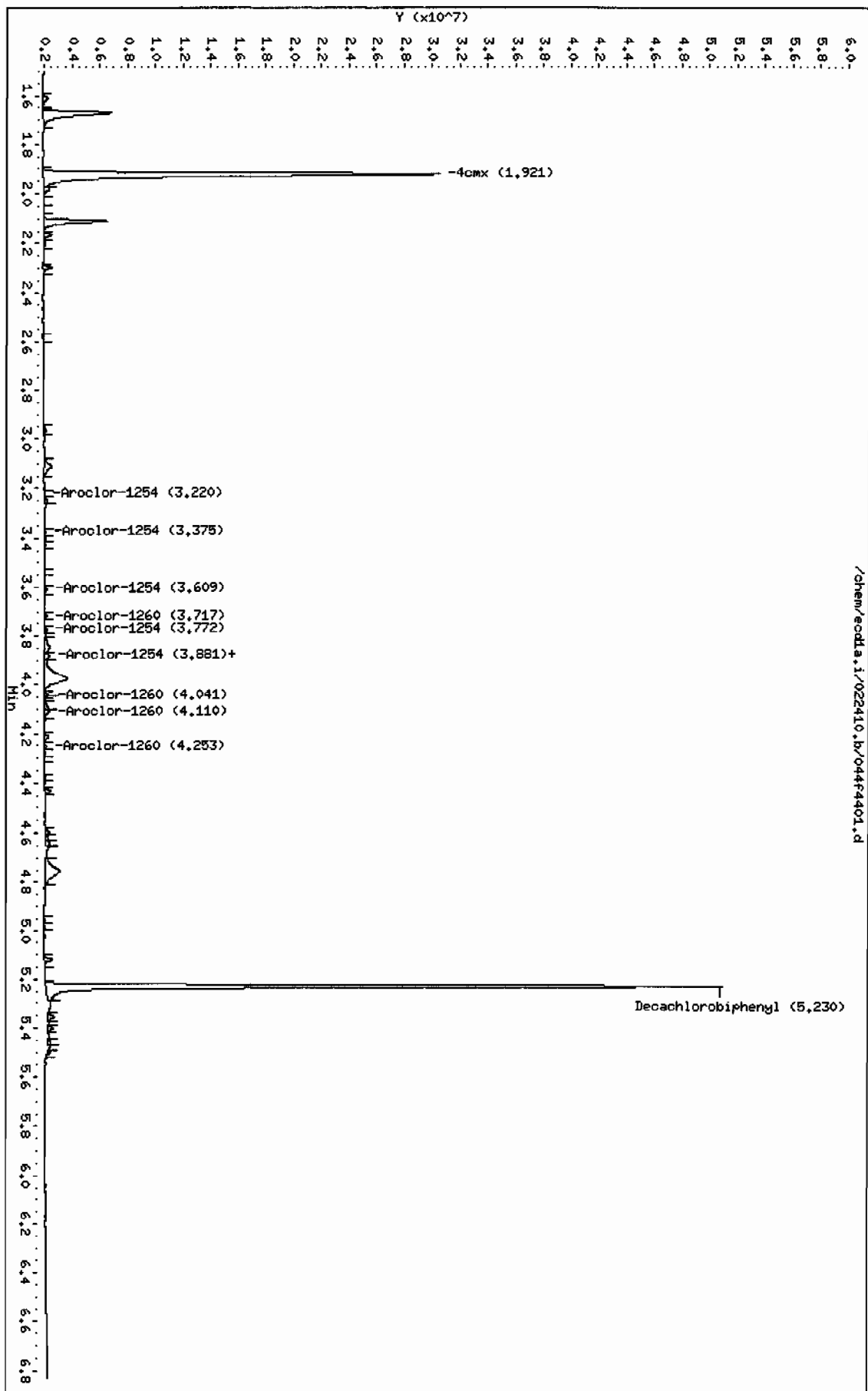
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.921	1.922	-0.001	30717428	71.3302	2.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.230	5.231	-0.001	40697956	132.442	4.5	80.00- 120.00	100.00

Data File: /chem/eodla.i/022410.b/044f4401.d
Date: 24-FEB-2010 14:38
Client ID: RE15-10-8214
Sample Info: 124719301411
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eodla.i
Operator: YSA
Column diameter: 0.25



Data File: /chem/ecdla.i/022410.b/044b4401.d
Report Date: 25-Feb-2010 06:17

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022410.b/044b4401.d

Lab Smp Id: 247193014

Client Smp ID: RE15-10-8211

Inj Date : 24-FEB-2010 14:38

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247193014|1|

Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8211|

Comment :

Method : /chem/ecdla.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 25-Feb-2010 06:10 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 44

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1864.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	1.22950	% Moisture

Cpnd Variable

Local Compound Variable

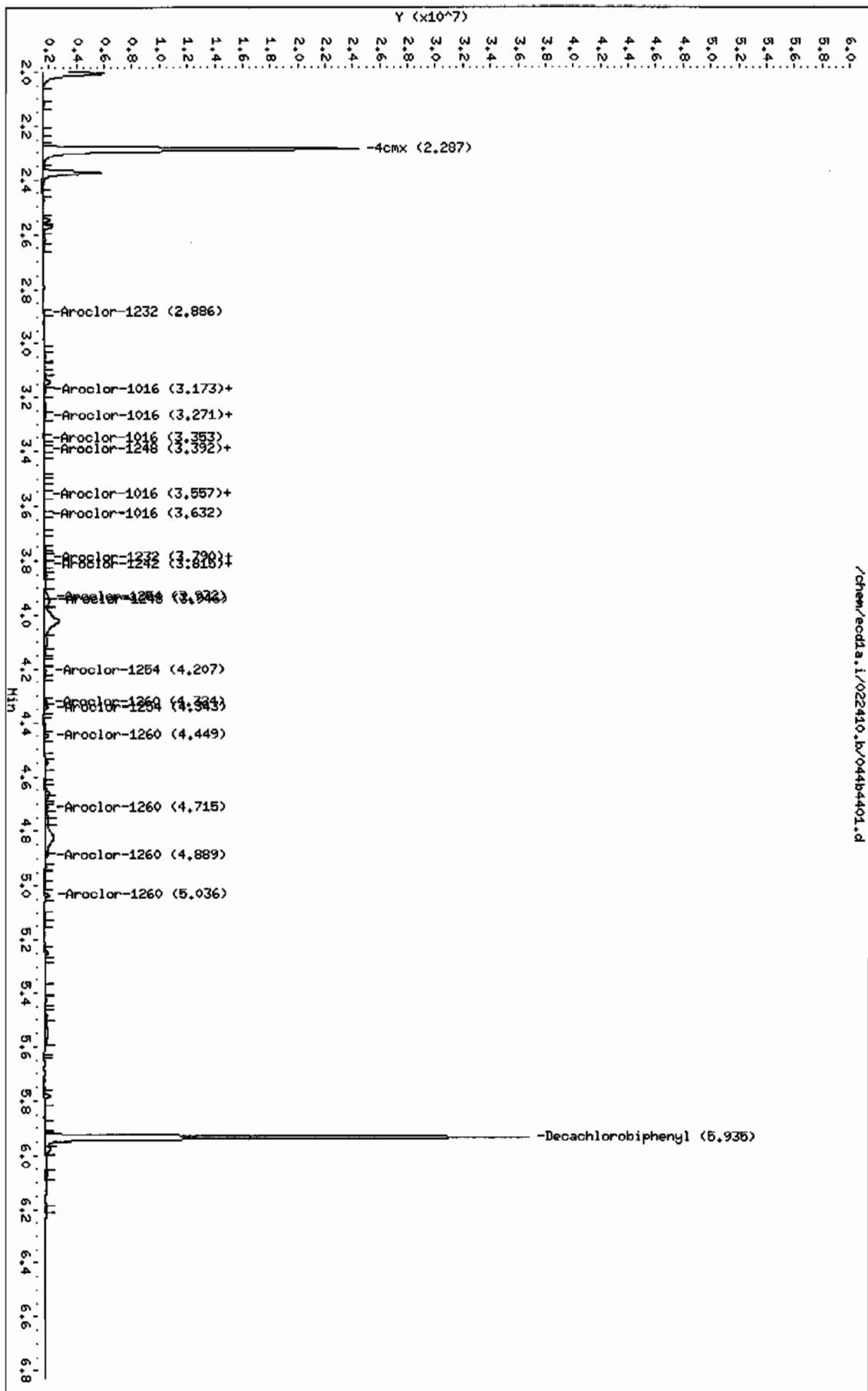
CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
2.287	2.288	-0.001	20428936 68.6925	2.3	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.935	5.935	0.000	26641455 125.965	4.2	80.00- 120.00	100.00

Data File: /chem/ecod1a.i/022410.b/04b4401.d
Date: 24-FEB-2010 14:38
Client ID: REIS-10-8241
Sample Info: 124719301411
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecod1a.i
Operator: VSI
Column diameter: 0.25



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Certificate of Analysis
Sample SummarySDG Number: 10-1864
Lab Sample ID: 247193013Date Collected: 02/10/2010 12:00
Date Received: 02/16/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
% Moisture: 2.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOWClient ID: RE15-10-8226
Batch ID: 956221
Run Date: 02/24/2010 14:25
Prep Date: 02/23/2010 11:04
Data File: 043f4301.d
043b4301.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

Data File: /chem/ecdla.i/022410.b/043f4301.d
Report Date: 25-Feb-2010 06:09

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022410.b/043f4301.d
Lab Smp Id: 247193013 Client Smp ID: RE15-10-8226
Inj Date : 24-FEB-2010 14:25
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247193013|1|
Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8226|||
Comment :
Method : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m
Meth Date : 25-Feb-2010 06:05 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1864.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclpl

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	2.43380	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

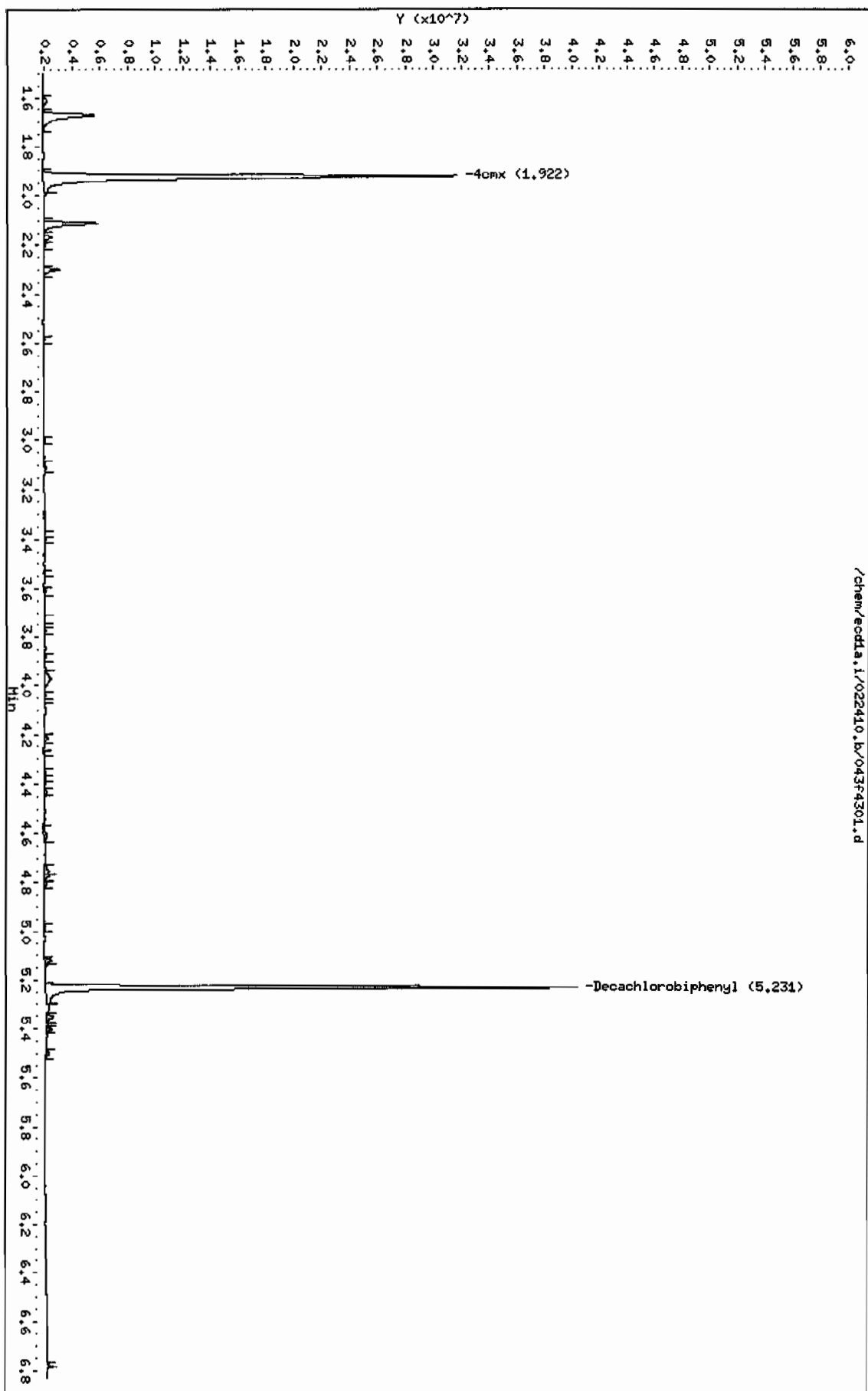
ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
1.922	1.922	0.000	32255612	74.9021	2.6 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.231	5.231	0.000	31982460	104.079	3.6 80.00- 120.00	100.00

Data File: /chem/eod1a.i/022410.b/043f4301.d
Date: 24-FEB-2010 14:25
Client ID: RE15-10-8226
Sample Info: 1247193013111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YS1
Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/022410.b/043b4301.d
Report Date: 25-Feb-2010 06:17

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/043b4301.d
Lab Smp Id: 247193013 Client Smp ID: RE15-10-8226
Inj Date : 24-FEB-2010 14:25
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |247193013|1|
Misc Info : |ECD82P_1S|956221|SVA|LANL|SOIL|RE15-10-8226|1|1|
Comment :
Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m
Meth Date : 25-Feb-2010 06:10 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1864.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	2.43380	% Moisture

Cpnd Variable Local Compound Variable

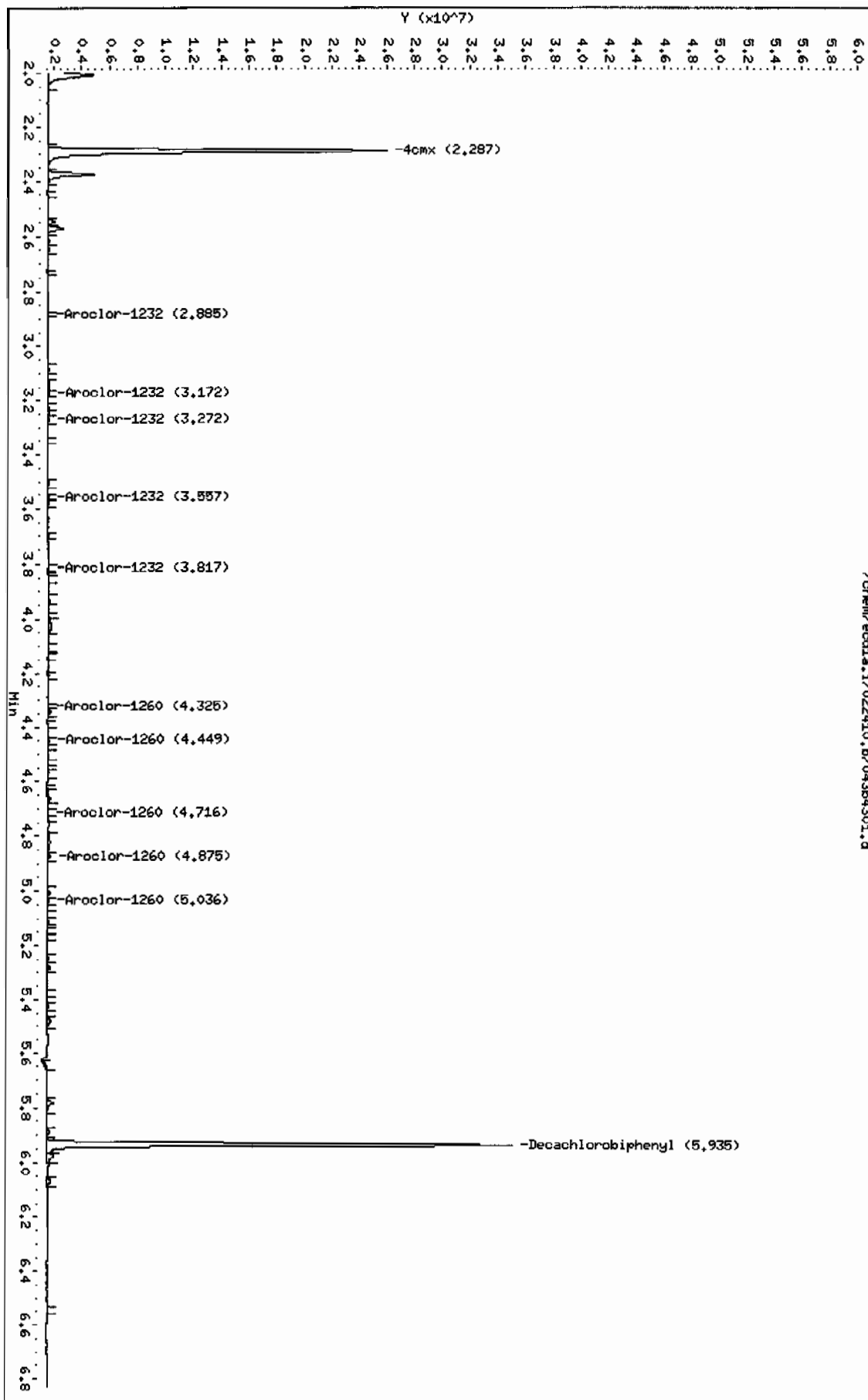
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.287	2.288	-0.001	21665002	72.8488	2.5 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.935	5.935	0.000	26027453	123.062	4.2 80.00- 120.00	100.00

Data File: /chem/ecod1a.i/022410.b/043b4301.d
Date: 24-FEB-2010 14:25
Client ID: RE15-10-8226
Sample Info: 1247193013111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecod1a.i
Operator: YS1
Column diameter: 0.25

/chem/ecod1a.i/022410.b/043b4301.d



STANDARDS DATA

Report Date: 25-Feb-2010 07:50

Calibration History

Method : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecdla.i/022210.b/032f3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdla.i/022210.b/026f2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdla.i/022210.b/020f2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdla.i/022210.b/014f1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdla.i/022210.b/008f0801.d

Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdla.i/022210.b/033f3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdla.i/022210.b/027f2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdla.i/022210.b/021f2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdla.i/022210.b/015f1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdla.i/022210.b/009f0901.d

Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdla.i/022210.b/034f3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdla.i/022210.b/028f2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdla.i/022210.b/022f2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdla.i/022210.b/016f1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdla.i/022210.b/010f1001.d

Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdla.i/022210.b/035f3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdla.i/022210.b/030f3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdla.i/022210.b/023f2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdla.i/022210.b/017f1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdla.i/022210.b/011f1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdla.i/022210.b/007f0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdla.i/022210.b/006f0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdla.i/022210.b/005f0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdla.i/022210.b/004f0401.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdla.i/022210.b/036f3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdla.i/022210.b/029f2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdla.i/022210.b/024f2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdla.i/022210.b/018f1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdla.i/022210.b/012f1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 16:40	AR1660	/chem/ecd1a.i/022410.b/054f5401.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 14:51	AR1660	/chem/ecd1a.i/022410.b/045f4501.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 13:14	AR1660	/chem/ecd1a.i/022410.b/037f3701.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 10:51	AR1660	/chem/ecd1a.i/022410.b/025f2501.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 09:41	AR1660	/chem/ecd1a.i/022410.b/019f1901.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 06:32	AR1660	/chem/ecd1a.i/022410.b/002f0201.d
Ccal Level: 4 , Ccal Amount: 1000		
22-FEB-2010 07:45	AR1660	/chem/ecd1a.i/022210.b/011f1101.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 07:46	AR1268	/chem/ecd1a.i/022410.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 07:35	AR1262	/chem/ecd1a.i/022410.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 07:25	AR1221	/chem/ecd1a.i/022410.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 07:14	AR1232	/chem/ecd1a.i/022410.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 07:04	AR1248	/chem/ecd1a.i/022410.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 06:43	AR1254	/chem/ecd1a.i/022410.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
24-FEB-2010 06:53	AR1242	/chem/ecd1a.i/022410.b/004f0401.d

Report Date: 25-Feb-2010 08:16

Calibration History

Method : /chem/ecd1a.i/022410.b/ECD1-B-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecd1a.i/022210.b/032b3201.d
22-FEB-2010 10:23	AR1248	/chem/ecd1a.i/022210.b/026b2601.d
22-FEB-2010 09:20	AR1242	/chem/ecd1a.i/022210.b/020b2001.d
22-FEB-2010 08:16	AR1254	/chem/ecd1a.i/022210.b/014b1401.d
22-FEB-2010 07:13	AR1660	/chem/ecd1a.i/022210.b/008b0801.d

Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecd1a.i/022210.b/033b3301.d
22-FEB-2010 10:33	AR1248	/chem/ecd1a.i/022210.b/027b2701.d
22-FEB-2010 09:30	AR1242	/chem/ecd1a.i/022210.b/021b2101.d
22-FEB-2010 08:27	AR1254	/chem/ecd1a.i/022210.b/015b1501.d
22-FEB-2010 07:24	AR1660	/chem/ecd1a.i/022210.b/009b0901.d

Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecd1a.i/022210.b/034b3401.d
22-FEB-2010 10:44	AR1248	/chem/ecd1a.i/022210.b/028b2801.d
22-FEB-2010 09:41	AR1242	/chem/ecd1a.i/022210.b/022b2201.d
22-FEB-2010 08:37	AR1254	/chem/ecd1a.i/022210.b/016b1601.d
22-FEB-2010 07:34	AR1660	/chem/ecd1a.i/022210.b/010b1001.d

Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecd1a.i/022210.b/035b3501.d
22-FEB-2010 11:05	AR1248	/chem/ecd1a.i/022210.b/030b3001.d
22-FEB-2010 09:51	AR1242	/chem/ecd1a.i/022210.b/023b2301.d
22-FEB-2010 08:48	AR1254	/chem/ecd1a.i/022210.b/017b1701.d
22-FEB-2010 07:45	AR1660	/chem/ecd1a.i/022210.b/011b1101.d
22-FEB-2010 07:03	AR1262	/chem/ecd1a.i/022210.b/007b0701.d
22-FEB-2010 06:52	AR1221	/chem/ecd1a.i/022210.b/006b0601.d
22-FEB-2010 06:41	AR1232	/chem/ecd1a.i/022210.b/005b0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecd1a.i/022210.b/004b0401.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecd1a.i/022210.b/036b3601.d
22-FEB-2010 10:54	AR1248	/chem/ecd1a.i/022210.b/029b2901.d
22-FEB-2010 10:02	AR1242	/chem/ecd1a.i/022210.b/024b2401.d
22-FEB-2010 08:59	AR1254	/chem/ecd1a.i/022210.b/018b1801.d
22-FEB-2010 07:55	AR1660	/chem/ecd1a.i/022210.b/012b1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 16:40 AR1660	/chem/ecdla.i/022410.b/054b5401.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 14:51 AR1660	/chem/ecdla.i/022410.b/045b4501.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 13:14 AR1660	/chem/ecdla.i/022410.b/037b3701.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 10:51 AR1660	/chem/ecdla.i/022410.b/025b2501.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 06:32 AR1660	/chem/ecdla.i/022410.b/002b0201.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 09:41 AR1660	/chem/ecdla.i/022410.b/019b1901.d
Ccal Level: 4 , Ccal Amount: 1000	
22-FEB-2010 07:45 AR1660	/chem/ecdla.i/022210.b/011b1101.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 07:46 AR1268	/chem/ecdla.i/022410.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 07:35 AR1262	/chem/ecdla.i/022410.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 07:25 AR1221	/chem/ecdla.i/022410.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 07:14 AR1232	/chem/ecdla.i/022410.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 07:04 AR1248	/chem/ecdla.i/022410.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 06:53 AR1242	/chem/ecdla.i/022410.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000	
24-FEB-2010 06:43 AR1254	/chem/ecdla.i/022410.b/003b0301.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd1a.i/022410.b/ECD1-F-8082-022210.m
Quant Method : ESTD Target Version : 3.50
Last Update : 25-Feb-2010 06:11 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	2.376	2.346-2.406	1.538e+04
	2.663	2.633-2.693	1.824e+04
	2.744	2.714-2.774	1.207e+04
	2.781	2.751-2.811	7.096e+03
	2.991	2.961-3.021	8.912e+03
63 4,4-DDD	3.900	3.880-3.920	3.060e+05
64 4,4-DDE	3.551	3.531-3.571	3.552e+05
62 4,4-DDT	4.064	4.044-4.084	2.080e+05
2 Aroclor-1221	2.035	2.005-2.065	4.398e+03
	2.128	2.098-2.158	2.431e+03
	2.153	2.123-2.183	1.042e+04
3 Aroclor-1232	2.376	2.346-2.406	6.218e+03
	2.663	2.633-2.693	7.488e+03
	2.743	2.713-2.773	4.887e+03
	2.858	2.828-2.888	2.191e+03
4 Aroclor-1242	3.245	3.215-3.275	2.731e+03
	2.377	2.347-2.407	1.256e+04
	2.664	2.634-2.694	1.461e+04
	2.782	2.752-2.812	5.629e+03
	2.992	2.962-3.022	7.310e+03
	3.246	3.216-3.276	6.183e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1.i/022410.b/ECD1-F-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	2.858	2.828-2.888	9.301e+03
	2.993	2.962-3.022	1.241e+04
	3.245	3.215-3.275	1.220e+04
	3.377	3.348-3.408	1.042e+04
	3.610	3.580-3.640	6.820e+03
6 Aroclor-1254	3.221	3.191-3.251	1.201e+04
	3.376	3.346-3.406	1.583e+04
	3.610	3.580-3.640	1.952e+04
	3.773	3.743-3.803	1.381e+04
	3.882	3.852-3.912	1.428e+04
7 Aroclor-1260	3.718	3.688-3.748	1.707e+04
	3.881	3.851-3.911	2.364e+04
	4.043	4.013-4.073	2.497e+04
	4.111	4.081-4.141	1.441e+04
	4.253	4.223-4.283	1.443e+04
8 Aroclor-1262	3.718	3.688-3.748	1.261e+04
	3.881	3.851-3.911	1.569e+04
	4.111	4.081-4.141	1.995e+04
	4.254	4.224-4.284	1.798e+04
	4.433	4.403-4.463	3.725e+04
9 Aroclor-1268	4.618	4.588-4.648	4.848e+04
	4.640	4.610-4.670	5.448e+04
	4.754	4.724-4.784	3.862e+04
	4.956	4.926-4.986	1.635e+04
	5.121	5.091-5.151	1.121e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.922	1.892-1.952	4.306e+05
\$ 12 Decachlorobiphenyl	5.231	5.201-5.261	3.073e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m
Quant Method : ESTD Target Version : 3.50
Last Update : 25-Feb-2010 06:10 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	3.184	3.154-3.214	1.279e+04
	3.266	3.236-3.296	8.918e+03
	3.330	3.300-3.360	5.406e+03
	3.557	3.527-3.587	6.916e+03
	3.632	3.602-3.662	6.425e+03
62 4,4-DDT	4.660	4.640-4.680	1.000e+05
63 4,4-DDE	4.128	4.108-4.148	2.505e+05
64 4,4-DDD	4.473	4.453-4.493	2.085e+05
2 Aroclor-1221	2.485	2.455-2.515	3.431e+03
	2.579	2.549-2.609	2.152e+03
	2.620	2.590-2.650	7.328e+03
3 Aroclor-1232	2.886	2.856-2.916	4.920e+03
	3.184	3.154-3.214	5.252e+03
	3.267	3.237-3.297	3.768e+03
	3.558	3.528-3.588	2.699e+03
4 Aroclor-1242	3.792	3.762-3.822	2.631e+03
	3.184	3.154-3.214	1.035e+04
	3.267	3.237-3.297	7.279e+03
	3.557	3.527-3.587	5.768e+03
	3.791	3.761-3.821	5.788e+03
	3.819	3.789-3.849	6.641e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/022410.b/ECD1-B-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.393	3.363-3.423	7.602e+03
	3.558	3.527-3.587	9.360e+03
	3.792	3.762-3.822	1.065e+04
	3.819	3.789-3.849	1.210e+04
	3.956	3.926-3.986	1.150e+04
6 Aroclor-1254	3.393	3.363-3.423	6.068e+03
	3.815	3.785-3.845	1.074e+04
	3.931	3.901-3.961	1.164e+04
	4.208	4.178-4.238	1.590e+04
	4.344	4.314-4.375	1.198e+04
7 Aroclor-1260	4.324	4.294-4.354	1.321e+04
	4.449	4.419-4.479	1.557e+04
	4.715	4.685-4.745	1.184e+04
	4.888	4.858-4.918	1.220e+04
	5.036	5.006-5.066	2.653e+04
8 Aroclor-1262	4.449	4.419-4.479	1.126e+04
	4.715	4.685-4.745	1.550e+04
	4.889	4.859-4.919	1.407e+04
	5.036	5.006-5.066	2.845e+04
	5.249	5.219-5.279	1.972e+04
9 Aroclor-1268	5.247	5.217-5.277	3.730e+04
	5.275	5.245-5.305	3.492e+04
	5.425	5.395-5.455	2.658e+04
	5.589	5.559-5.619	1.223e+04
	5.783	5.753-5.813	7.433e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.288	2.258-2.318	2.974e+05
\$ 12 Decachlorobiphenyl	5.935	5.905-5.965	2.115e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m
 Cal Date : 25-Feb-2010 06:11 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/022210.b/032f3201.d
 Level 2: /chem/ecdla.i/022210.b/033f3301.d
 Level 3: /chem/ecdla.i/022210.b/034f3401.d
 Level 4: /chem/ecdla.i/022210.b/035f3501.d
 Level 5: /chem/ecdla.i/022210.b/036f3601.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
1 Aroclor-1016(1)	18473	16312	15150	14238	12749	15384	14.060
(2)	20194	18537	17759	17625	17070	18237	6.651
(3)	14170	12473	11875	11163	10646	12065	11.317
(4)	8163	7198	6933	6624	6564	7096	9.135
(5)	10345	9178	8623	8273	8142	8912	10.051
63 4,4-DDD	+++++	+++++	+++++	305990	+++++	305990	0.000
64 4,4-DDE	+++++	+++++	+++++	355239	+++++	355239	0.000
62 4,4-DDT	+++++	+++++	+++++	208015	+++++	208015	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	4398	+++++	4398	0.000
(2)	+++++	+++++	+++++	2431	+++++	2431	0.000
(3)	+++++	+++++	+++++	10418	+++++	10418	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	6218	+++++	6218	0.000
(2)	+++++	+++++	+++++	7488	+++++	7488	0.000
(3)	+++++	+++++	+++++	4887	+++++	4887	0.000
(4)	+++++	+++++	+++++	2191	+++++	2191	0.000
(5)	+++++	+++++	+++++	2731	+++++	2731	0.000
4 Aroclor-1242(1)	14895	13406	12308	11554	10624	12557	13.200
(2)	15940	15326	14418	13613	13761	14612	6.870
(3)	6066	5934	5542	5337	5267	5629	6.326
(4)	8523	7616	7127	6725	6562	7310	10.814
(5)	6824	6256	5999	5817	6020	6183	6.317
5 Aroclor-1248(1)	10594	9810	9017	8885	8199	9301	9.911
(2)	14228	12736	11895	11712	11476	12409	9.043
(3)	12841	12156	11815	11785	12410	12201	3.615
(4)	11297	10503	10013	9956	10333	10420	5.179
(5)	7445	6917	6453	6460	6824	6820	5.977

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1.i/022410.b/ECD1-F-8082-022210.m
 Cal Date : 25-Feb-2010 06:11 yip00818
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	13496	12213	11744	11466	11117	12007	7.694
(2)	16789	15969	15727	15423	15253	15832	3.802
(3)	20267	19353	19208	19481	19310	19524	2.185
(4)	14142	13669	13487	13772	13976	13809	1.858
(5)	15228	14234	13851	14228	13864	14281	3.932
7 Aroclor-1260(1)	19445	17307	16758	16208	15645	17072	8.574
(2)	25625	23757	23316	22992	22528	23643	5.056
(3)	27164	24948	24176	24127	24442	24971	5.079
(4)	16166	14596	13941	13551	13775	14406	7.345
(5)	15672	14437	13986	13647	14411	14431	5.316
8 Aroclor-1262(1)	+++++	+++++	+++++	12612	+++++	12612	0.000
(2)	+++++	+++++	+++++	15693	+++++	15693	0.000
(3)	+++++	+++++	+++++	19946	+++++	19946	0.000
(4)	+++++	+++++	+++++	17981	+++++	17981	0.000
(5)	+++++	+++++	+++++	37250	+++++	37250	0.000
9 Aroclor-1268(1)	49163	48928	48151	48132	48019	48478	1.086
(2)	55254	54719	54718	54649	53075	54483	1.512
(3)	39937	38826	38121	38191	38006	38616	2.083
(4)	16234	16191	16152	16347	16815	16348	1.657
(5)	114910	115297	111446	111050	107804	112101	2.753
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	457836	439032	431646	423676	400995	430637	4.841
\$ 12 Decachlorobiphenyl	331580	312081	303953	298909	289924	307289	5.135

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/022410.b/ECD1-B-8082-022210.m
 Cal Date : 25-Feb-2010 06:10 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/022210.b/032b3201.d
 Level 2: /chem/ecdla.i/022210.b/033b3301.d
 Level 3: /chem/ecdla.i/022210.b/034b3401.d
 Level 4: /chem/ecdla.i/022210.b/035b3501.d
 Level 5: /chem/ecdla.i/022210.b/036b3601.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14790	13406	12599	11956	11198	12790	10.807
(2)	11020	9550	8735	8081	7204	8918	16.336
(3)	6667	5702	5261	4923	4477	5406	15.464
(4)	8469	7466	6811	6206	5627	6916	15.991
(5)	7861	6755	6366	5845	5300	6425	15.123
62 4,4-DDT	++++	++++	++++	100019	++++	100019	0.000
63 4,4-DDE	++++	++++	++++	250510	++++	250510	0.000
64 4,4-DDD	++++	++++	++++	208527	++++	208527	0.000
2 Aroclor-1221(1)	++++	++++	++++	3431	++++	3431	0.000
(2)	++++	++++	++++	2152	++++	2152	0.000
(3)	++++	++++	++++	7328	++++	7328	0.000
3 Aroclor-1232(1)	++++	++++	++++	4920	++++	4920	0.000
(2)	++++	++++	++++	5252	++++	5252	0.000
(3)	++++	++++	++++	3768	++++	3768	0.000
(4)	++++	++++	++++	2699	++++	2699	0.000
(5)	++++	++++	++++	2631	++++	2631	0.000
4 Aroclor-1242(1)	12162	10602	10267	9852	8873	10351	11.615
(2)	8972	7860	7095	6551	5917	7279	16.286
(3)	7172	6222	5595	5138	4714	5768	16.707
(4)	7092	6149	5608	5215	4876	5788	15.018
(5)	8262	7049	6439	5944	5512	6641	16.138
5 Aroclor-1248(1)	9375	8130	7334	6873	6297	7602	15.743
(2)	11273	9902	9059	8609	7955	9360	13.704
(3)	12356	11118	10348	9982	9432	10647	10.657
(4)	14147	12783	11698	11327	10532	12097	11.596
(5)	13387	12032	11069	10719	10286	11499	10.750

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/022410.b/ECD1-B-8082-022210.m
 Cal Date : 25-Feb-2010 06:10 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254 (1)	7593	6474	5915	5463	4897	6068	16.986
(2)	13079	11278	10543	9836	8978	10743	14.511
(3)	14023	12144	11373	10769	9907	11643	13.419
(4)	18579	16173	15683	15087	13972	15899	10.745
(5)	14693	12059	11530	11303	10291	11975	13.772
7 Aroclor-1260 (1)	16156	14478	12627	11898	10869	13206	15.988
(2)	18308	16389	15401	14483	13254	15567	12.332
(3)	14169	12468	11644	10875	10061	11844	13.319
(4)	14677	12787	11930	11182	10430	12201	13.416
(5)	30570	27429	26347	25126	23163	26527	10.405
8 Aroclor-1262 (1)	++++	++++	++++	11265	++++	11265	0.000
(2)	++++	++++	++++	15504	++++	15504	0.000
(3)	++++	++++	++++	14070	++++	14070	0.000
(4)	++++	++++	++++	28448	++++	28448	0.000
(5)	++++	++++	++++	19723	++++	19723	0.000
9 Aroclor-1268 (1)	41829	39003	36612	35751	33294	37298	8.721
(2)	39747	36378	33891	33096	31474	34917	9.246
(3)	30202	27679	25801	25188	24032	26580	9.093
(4)	14370	12834	11677	11309	10971	12232	11.329
(5)	81955	77588	73073	71224	67792	74326	7.452
M 10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
\$ 11 4cmx	335261	308362	295849	285028	262485	297397	9.098
\$ 12 Decachlorobiphenyl	252219	220293	206273	196840	181867	211498	12.633

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 0632
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13427.895	0.01	-12.7	15.0
(2)	18237.012	16489.120	0.01	-9.6	15.0
(3)	12065.482	10832.969	0.01	-10.2	15.0
(4)	7096.105	6527.905	0.01	-8.0	15.0
(5)	8912.192	8272.378	0.01	-7.2	15.0
Aroclor-1260	17072.421	18068.149	0.01	5.8	15.0
(2)	23643.449	25976.957	0.01	9.9	15.0
(3)	24971.335	27840.961	0.01	11.5	15.0
(4)	14405.675	15896.654	0.01	10.3	15.0
(5)	14430.527	16426.479	0.01	13.8	15.0
4cmx	430636.91	397854.29	0.01	-7.6	15.0
Decachlorobiphenyl	307289.35	299154.36	0.01	-2.6	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.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 0632
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	11626.730	0.01	-9.1	15.0
(2)	8917.926	7738.792	0.01	-13.2	15.0
(3)	5406.011	4834.032	0.01	-10.6	15.0
(4)	6915.638	6207.565	0.01	-10.2	15.0
(5)	6425.213	5830.059	0.01	-9.3	15.0
Aroclor-1260	13205.642	12355.615	0.01	-6.4	15.0
(2)	15566.814	15164.876	0.01	-2.6	15.0
(3)	11843.501	11419.788	0.01	-3.6	15.0
(4)	12201.193	11826.008	0.01	-3.1	15.0
(5)	26527.172	26560.151	0.01	0.1	15.0
4cmx	297396.93	264689.36	0.01	-11.0	15.0
Decachlorobiphenyl	211498.34	191645.37	0.01	-9.4	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 1051
 Lab File ID: 025F2501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13945.026	0.01	-9.4	15.0
(2)	18237.012	17307.662	0.01	-5.1	15.0
(3)	12065.482	11282.855	0.01	-6.5	15.0
(4)	7096.105	6782.373	0.01	-4.4	15.0
(5)	8912.192	8688.103	0.01	-2.5	15.0
Aroclor-1260	17072.421	18771.215	0.01	10.0	15.0
(2)	23643.449	27054.979	0.01	14.4	15.0
(3)	24971.335	28746.087	0.01	15.1	15.0 <-
(4)	14405.675	16522.205	0.01	14.7	15.0
(5)	14430.527	16924.301	0.01	17.3	15.0 <-
4cmx	430636.91	413472.98	0.01	-4.0	15.0
Decachlorobiphenyl	307289.35	309477.29	0.01	0.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 1051
 Lab File ID: 025B2501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	11741.008	0.01	-8.2	15.0
(2)	8917.926	7791.221	0.01	-12.6	15.0
(3)	5406.011	4831.942	0.01	-10.6	15.0
(4)	6915.638	6281.464	0.01	-9.2	15.0
(5)	6425.213	5846.423	0.01	-9.0	15.0
Aroclor-1260	13205.642	12550.438	0.01	-5.0	15.0
(2)	15566.814	15460.947	0.01	-0.7	15.0
(3)	11843.501	11599.404	0.01	-2.1	15.0
(4)	12201.193	12009.317	0.01	-1.6	15.0
(5)	26527.172	26886.302	0.01	1.4	15.0
4cmx	297396.93	271004.03	0.01	-8.9	15.0
Decachlorobiphenyl	211498.34	193955.74	0.01	-8.3	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.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 1314
 Lab File ID: 037F3701 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	14098.891	0.01	-8.4	15.0
(2)	18237.012	17693.202	0.01	-3.0	15.0
(3)	12065.482	11362.236	0.01	-5.8	15.0
(4)	7096.105	6819.501	0.01	-3.9	15.0
(5)	8912.192	8610.537	0.01	-3.4	15.0
Aroclor-1260	17072.421	17340.289	0.01	1.6	15.0
(2)	23643.449	25076.356	0.01	6.1	15.0
(3)	24971.335	26785.373	0.01	7.3	15.0
(4)	14405.675	15264.596	0.01	6.0	15.0
(5)	14430.527	15675.993	0.01	8.6	15.0
4cmx	430636.91	415623.78	0.01	-3.5	15.0
Decachlorobiphenyl	307289.35	302793.40	0.01	-1.5	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.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 1314
 Lab File ID: 037B3701 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	11710.642	0.01	-8.4	15.0
(2)	8917.926	7731.938	0.01	-13.3	15.0
(3)	5406.011	4787.140	0.01	-11.4	15.0
(4)	6915.638	5980.682	0.01	-13.5	15.0
(5)	6425.213	5536.976	0.01	-13.8	15.0
Aroclor-1260	13205.642	11417.358	0.01	-13.5	15.0
(2)	15566.814	14017.795	0.01	-10.0	15.0
(3)	11843.501	10357.784	0.01	-12.5	15.0
(4)	12201.193	10693.470	0.01	-12.4	15.0
(5)	26527.172	24125.068	0.01	-9.0	15.0
4cmx	297396.93	270669.59	0.01	-9.0	15.0
Decachlorobiphenyl	211498.34	184629.78	0.01	-12.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 1451
 Lab File ID: 045F4501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	14129.875	0.01	-8.2	15.0
(2)	18237.012	16861.584	0.01	-7.5	15.0
(3)	12065.482	11056.456	0.01	-8.4	15.0
(4)	7096.105	6653.749	0.01	-6.2	15.0
(5)	8912.192	8474.332	0.01	-4.9	15.0
Aroclor-1260	17072.421	17024.349	0.01	-0.3	15.0
(2)	23643.449	24526.981	0.01	3.7	15.0
(3)	24971.335	25989.653	0.01	4.1	15.0
(4)	14405.675	14958.747	0.01	3.8	15.0
(5)	14430.527	15487.665	0.01	7.3	15.0
4cmx	430636.91	404754.33	0.01	-6.0	15.0
Decachlorobiphenyl	307289.35	303258.07	0.01	-1.3	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.: 10-1864
 Instrument ID: ECD1A Calibration Date: 02/24/10 Time: 1451
 Lab File ID: 045B4501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	11421.692	0.01	-10.7	15.0
(2)	8917.926	7692.757	0.01	-13.7	15.0
(3)	5406.011	4743.304	0.01	-12.2	15.0
(4)	6915.638	6193.519	0.01	-10.4	15.0
(5)	6425.213	5715.125	0.01	-11.0	15.0
Aroclor-1260	13205.642	11557.265	0.01	-12.5	15.0
(2)	15566.814	14291.651	0.01	-8.2	15.0
(3)	11843.501	10709.568	0.01	-9.6	15.0
(4)	12201.193	11071.388	0.01	-9.2	15.0
(5)	26527.172	24692.537	0.01	-6.9	15.0
4cmx	297396.93	266138.48	0.01	-10.5	15.0
Decachlorobiphenyl	211498.34	192301.61	0.01	-9.1	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/002f0201.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 24-FEB-2010 06:32

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 11:17 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 2

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			
1.922	1.922	0.000	39785429	100.000	92.4	80.00- 120.00	100.00	

12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.231	5.231	0.000	29915436	100.000	97.4	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.376	2.376	0.000	13427895	1000.00	873	80.00- 120.00	100.00	
2.663	2.663	0.000	16489120	1000.00	904	102.80- 142.80	122.80	
2.744	2.744	0.000	10832969	1000.00	898	60.68- 100.68	80.68	
2.781	2.781	0.000	6527905	1000.00	920	28.61- 68.61	48.61	
2.991	2.991	0.000	8272378	1000.00	928	41.61- 81.61	61.61	
Average of Peak Amounts =					905			

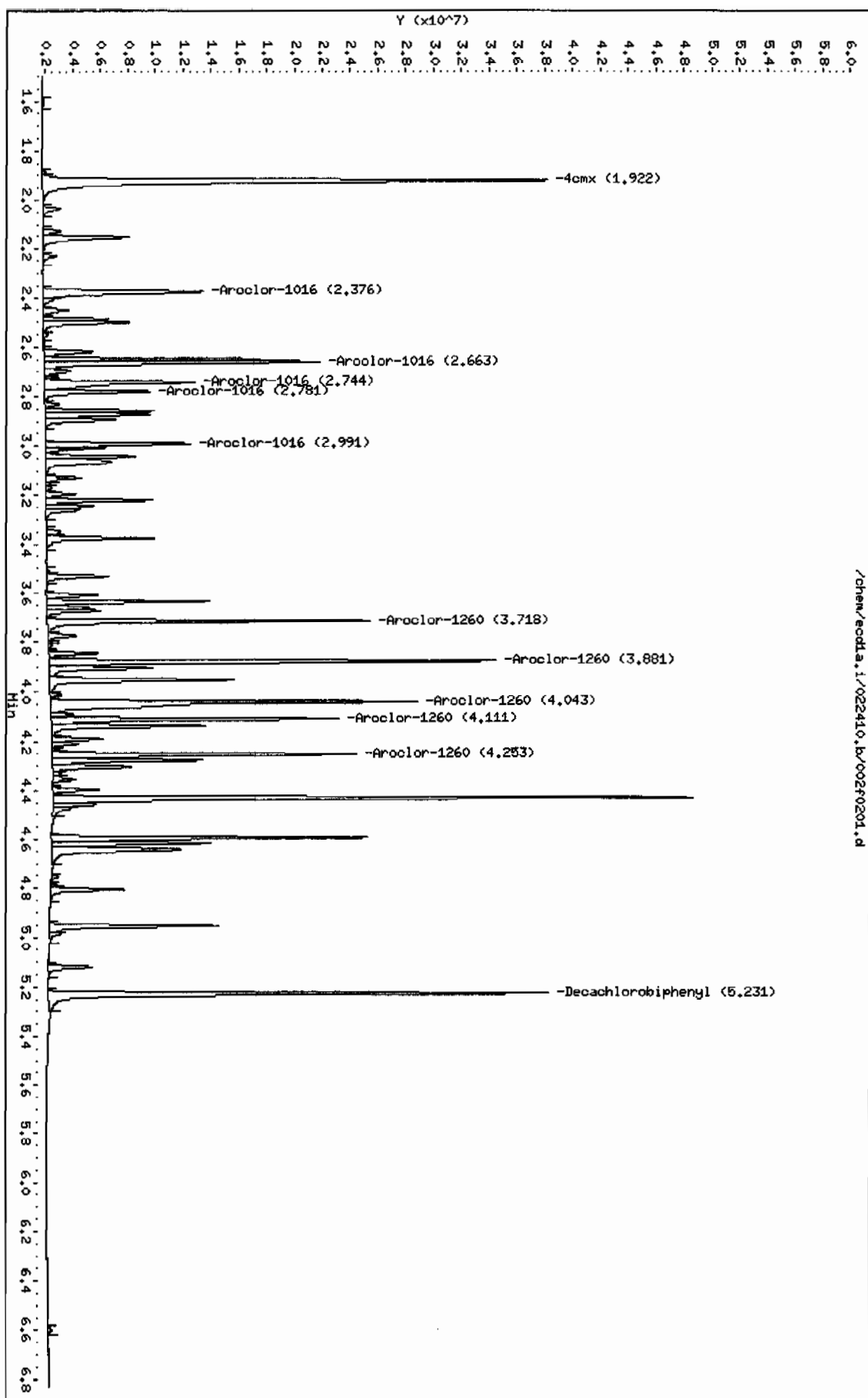
7 Aroclor-1260					CAS #: 11096-82-5			
3.718	3.718	0.000	18068149	1000.00	1060	80.00- 120.00	100.00	
3.881	3.881	0.000	25976957	1000.00	1100	123.77- 163.77	143.77	
4.043	4.043	0.000	27840961	1000.00	1110	134.09- 174.09	154.09	
4.111	4.111	0.000	15896654	1000.00	1100	67.98- 107.98	87.98	
4.253	4.253	0.000	16426479	1000.00	1140	70.91- 110.91	90.91	
Average of Peak Amounts =					1.1e+03			

Data File: /chem/ecda.i/022410.b/002f0201.d
Date: 24-FEB-2010 06:32
Client ID: AR166001
Sample Info: 14AR100222-60 01

Column phase: CLP1

Instrument: ecda.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/ecdl1a.i/022410.b/002b0201.d
Lab Smp Id: WAR100222-60 01 Client Smp ID: AR166001
Inj Date : 24-FEB-2010 06:32
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100222-60 01
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m
Meth Date : 24-Feb-2010 11:24 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
11 4cmx					CAS #: 877-09-8			
2.288	2.288	0.000	26468936	100.000	89.0	80.00~	120.00	100.00

12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.935	5.935	0.000	19164537	100.000	90.6	80.00~	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.184	3.184	0.000	11626730	1000.00	909	80.00~	120.00	100.00 (M)
3.266	3.266	0.000	7738792	1000.00	868	46.56~	86.56	66.56
3.330	3.330	0.000	4834032	1000.00	894	21.58~	61.58	41.58
3.557	3.557	0.000	6207565	1000.00	898	33.39~	73.39	53.39
3.632	3.632	0.000	5830059	1000.00	907	30.14~	70.14	50.14
Average of Peak Amounts =					895			

7 Aroclor-1260					CAS #: 11096-82-5			
4.324	4.324	0.000	12355615	1000.00	936	80.00~	120.00	100.00
4.449	4.449	0.000	15164876	1000.00	974	102.74~	142.74	122.74
4.715	4.715	0.000	11419788	1000.00	964	72.43~	112.43	92.43
4.888	4.888	0.000	11826008	1000.00	969	75.71~	115.71	95.71
5.036	5.036	0.000	26560151	1000.00	1000	194.96~	234.96	214.96
Average of Peak Amounts =					969			

QC Flag Legend

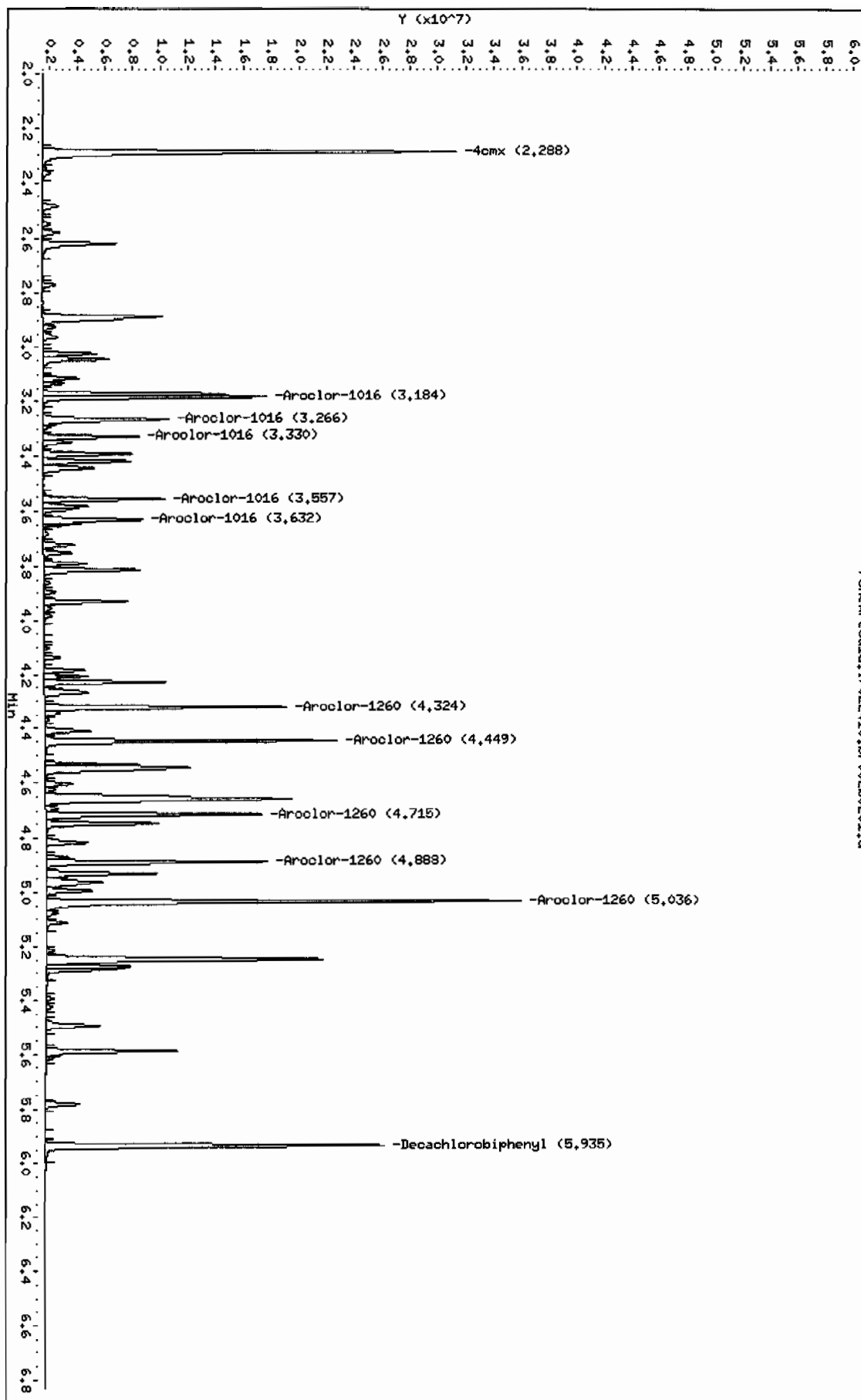
M - Compound response manually integrated.

Data File: /chem/ecdl.a.i/022410.b/002b0201.d
Date: 24-FEB-2010 06:32
Client ID: AR166001
Sample Info: IWR100222-60 01

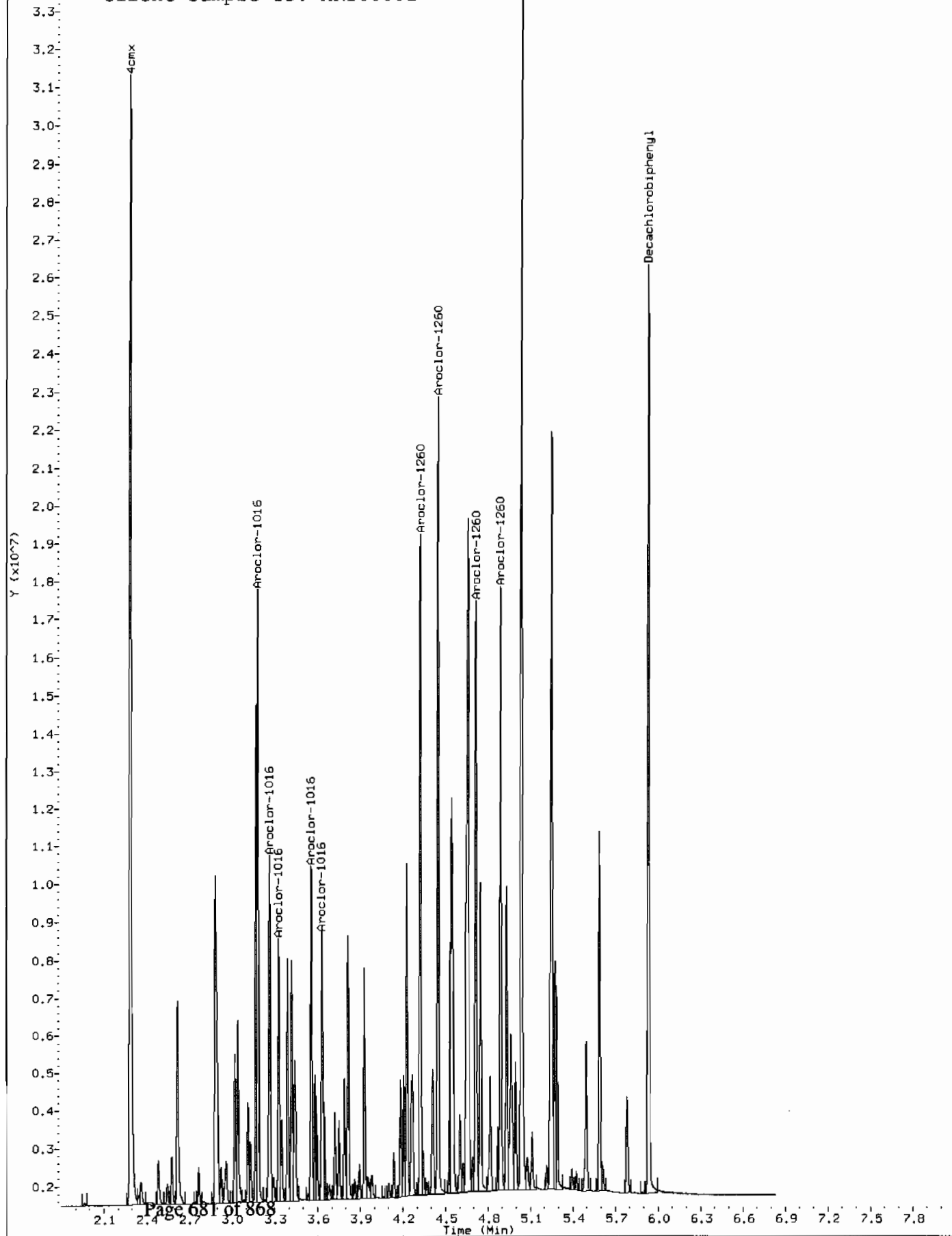
Column phase: CLP2

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

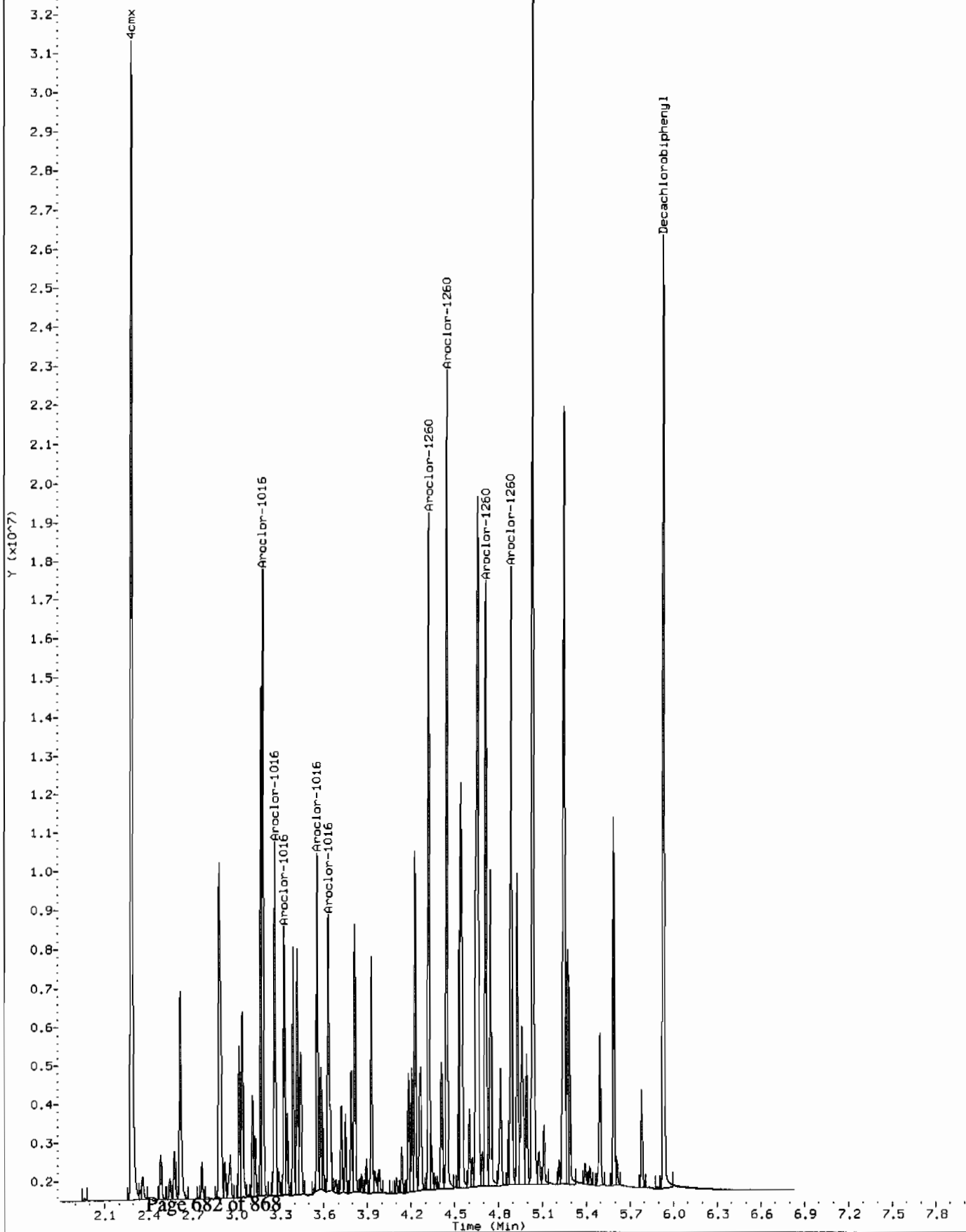
/chem/ecdl.a.i/022410.b/002b0201.d



Comment: Manually Integrated
Data File: /chem/ecdla.i/022410.b/002b0201.d
Operator: YS1
Injection Date: 24-FEB-2010 06:32
Instrument: ecdla.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdl1.i/022410.b/Orig-002b0201.d
Operator: YS1
Injection Date: 24-FEB-2010 06:32
Instrument: ecd1a.i
Client Sample ID: AR166001



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/003f0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 24-FEB-2010 06:43

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 09:41 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 11:47

Cal File: 034f3401.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
3.221	3.221	0.000	12628659 1000.00	1050	80.00- 120.00	100.00
3.376	3.376	0.000	16765069 1000.00	1060	112.75- 152.75	132.75
3.610	3.610	0.000	21822982 1000.00	1120	152.81- 192.81	172.81
3.773	3.773	0.000	15523465 1000.00	1120	102.92- 142.92	122.92
3.882	3.882	0.000	16308080 1000.00	1140	109.14- 149.14	129.14

Average of Peak Amounts = 1.1e+03

Data File: /chem/eodla.i/022410.b/003f0301.d
Date: 24-FEB-2010 06:43
Client ID: AR125401
Sample Info: 1MAR100219-54

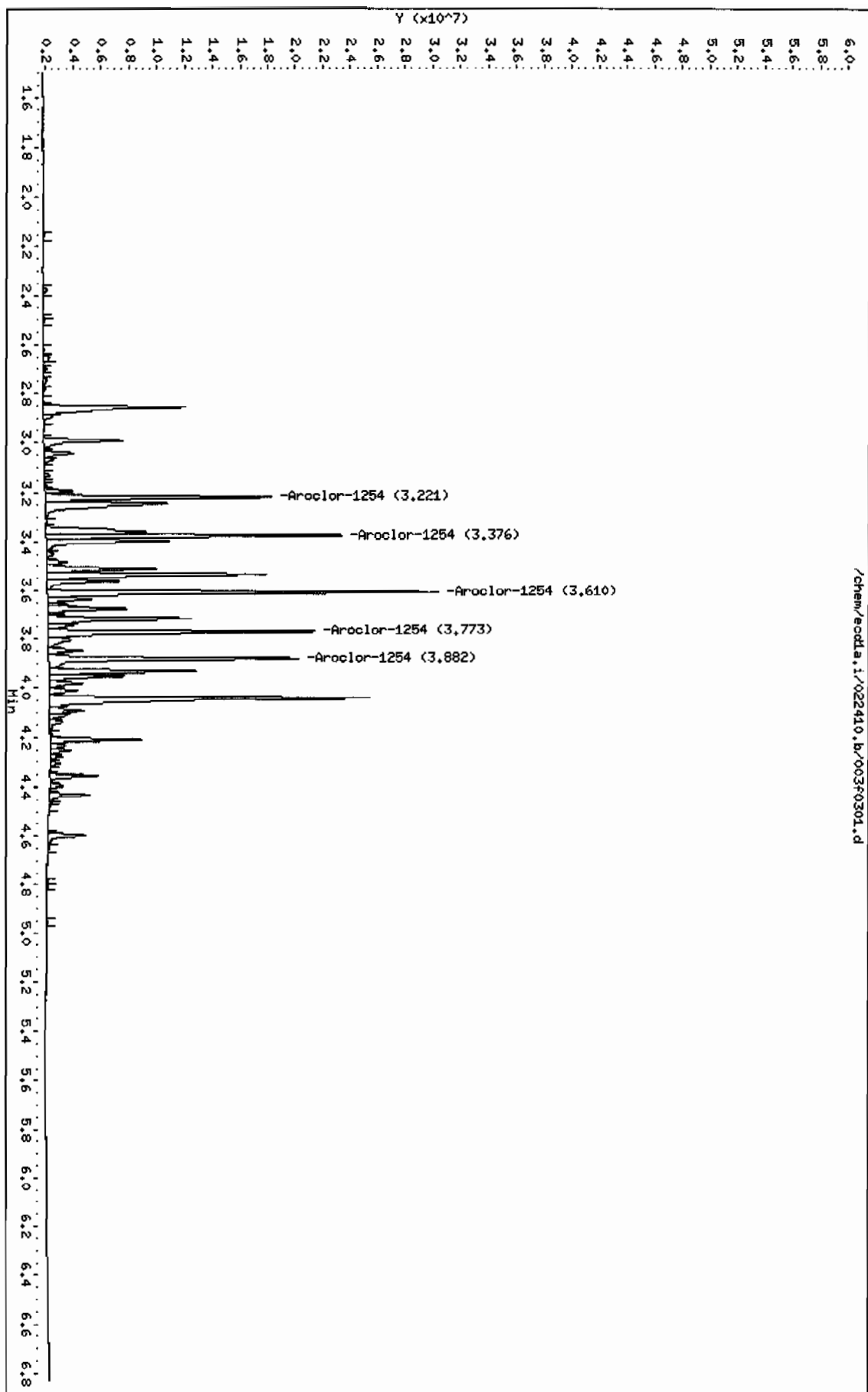
Instrument: eodla.i

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Column phase: CLP1

Operator: YSL
Column diameter: 0.25

/chem/eodla.i/022410.b/003f0301.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/003b0301.d
 Lab Smp Id: WAR100219-54 Client Smp ID: AR125401
 Inj Date : 24-FEB-2010 06:43
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100219-54
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m
 Meth Date : 24-Feb-2010 09:40 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 11:37 Cal File: 033b3301.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1254.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)		
==	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254			CAS #: 11097-69-1				
3.393	3.393	0.000	5643057	1000.00	930	80.00- 120.00	100.00
3.815	3.815	0.000	10159002	1000.00	946	160.03- 200.03	180.03
3.931	3.931	0.000	11165214	1000.00	959	177.86- 217.86	197.86
4.208	4.208	0.000	15706895	1000.00	988	258.34- 298.34	278.34
4.344	4.344	0.000	11467239	1000.00	958	183.21- 223.21	203.21
Average of Peak Amounts =			956				

Data File: /chem/eod1a.i/022410.b/003b0301.d
Date: 24-FEB-2010 06:43
Client ID: AR125401
Sample Info: IWR100219-54

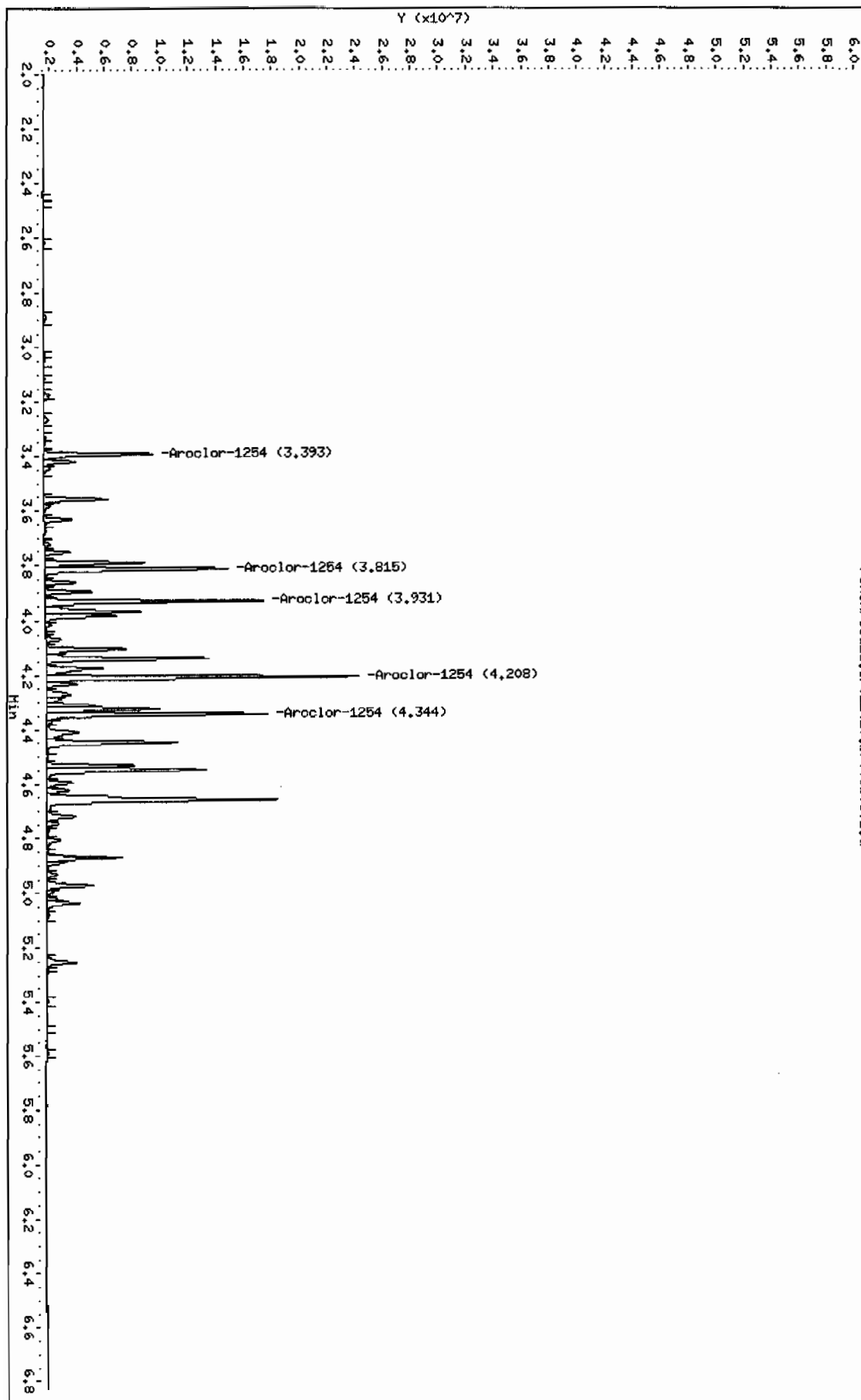
Instrument: eod1a.i

Page 1

Column phase: CLP2

Operator: YSL
Column diameter: 0.25

/chem/eod1a.i/022410.b/003b0301.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/004f0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 24-FEB-2010 06:53

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 09:41 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 11:47

Cal File: 034f3401.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
*****	*****	*****	*****	*****	*****	*****
4 Aroclor-1242			CAS #: 53469-21-9			
2.377	2.377	0.000	12244511 1000.00	975	80.00- 120.00	100.00
2.664	2.664	0.000	15097330 1000.00	1030	103.30- 143.30	123.30
2.782	2.782	0.000	5864589 1000.00	1040	27.90- 67.90	47.90
2.992	2.992	0.000	7615697 1000.00	1040	42.20- 82.20	62.20
3.246	3.246	0.000	6745924 1000.00	1090	35.09- 75.09	55.09
Average of Peak Amounts =			1.04e+03			

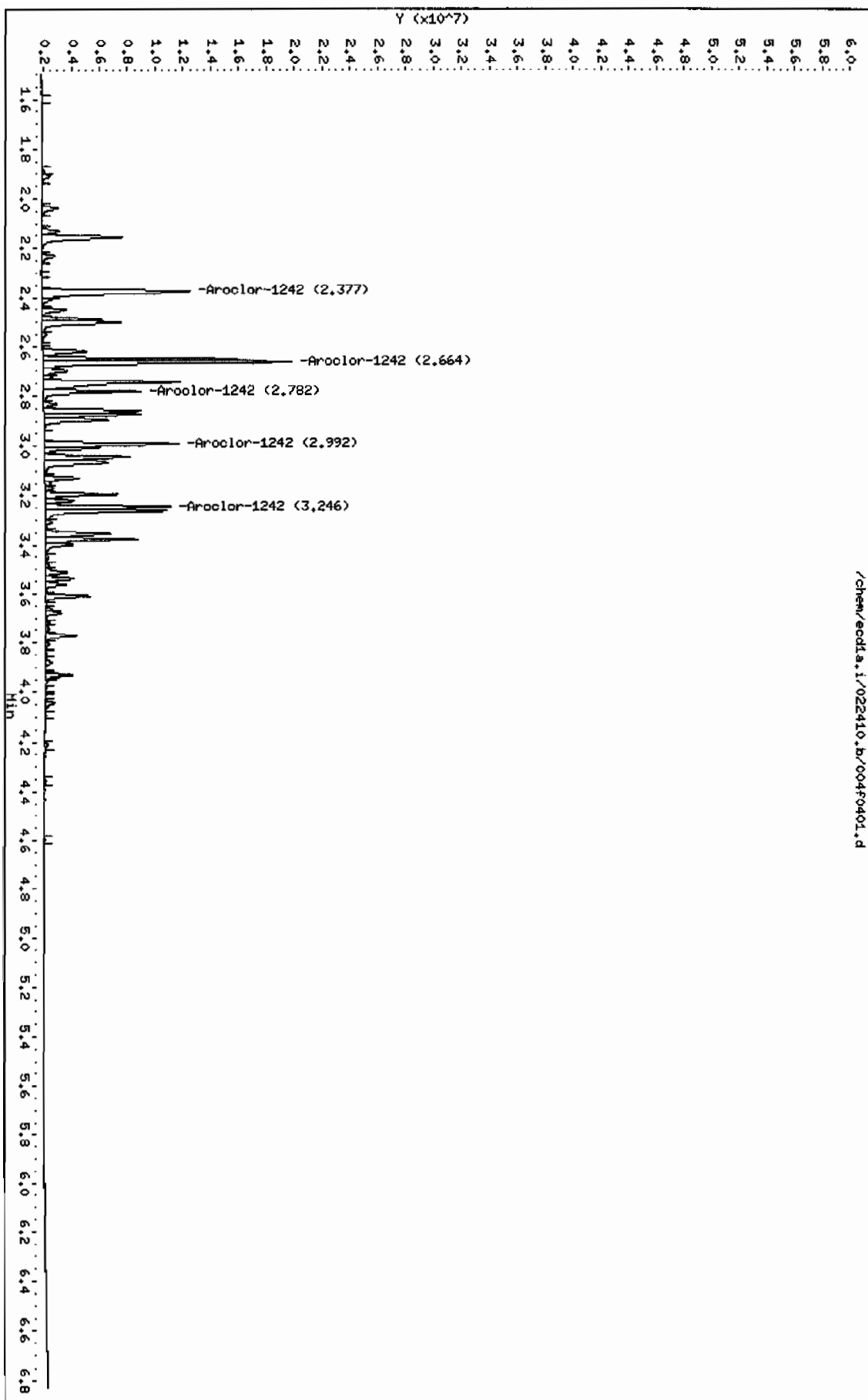
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Date : 24-FEB-2010 06:53
Client ID: AR124201
Sample Info: IARR100219-42

Instrument: ecdl.a.i

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Column phase: CLP1

Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/022410.b/004b0401.d
Lab Smp Id: WAR100219-42 Client Smp ID: AR124201
Inj Date : 24-FEB-2010 06:53
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100219-42
Misc Info :
Comment :
Method : /chem/ecdla.i/022410.b/ECD1-B-8082-022210.m
Meth Date : 24-Feb-2010 09:40 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 11:37 Cal File: 033b3301.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
4 Aroclor-1242			CAS #: 53469-21-9			
3.184	3.184	0.000	10219608 1000.00	987	80.00- 120.00	100.00
3.267	3.267	0.000	6765861 1000.00	930	46.20- 86.20	66.20
3.557	3.557	0.000	5349275 1000.00	927	32.34- 72.34	52.34
3.791	3.791	0.000	5539202 1000.00	957	34.20- 74.20	54.20
3.819	3.819	0.000	6222259 1000.00	937	40.89- 80.89	60.89
Average of Peak Amounts =			948			

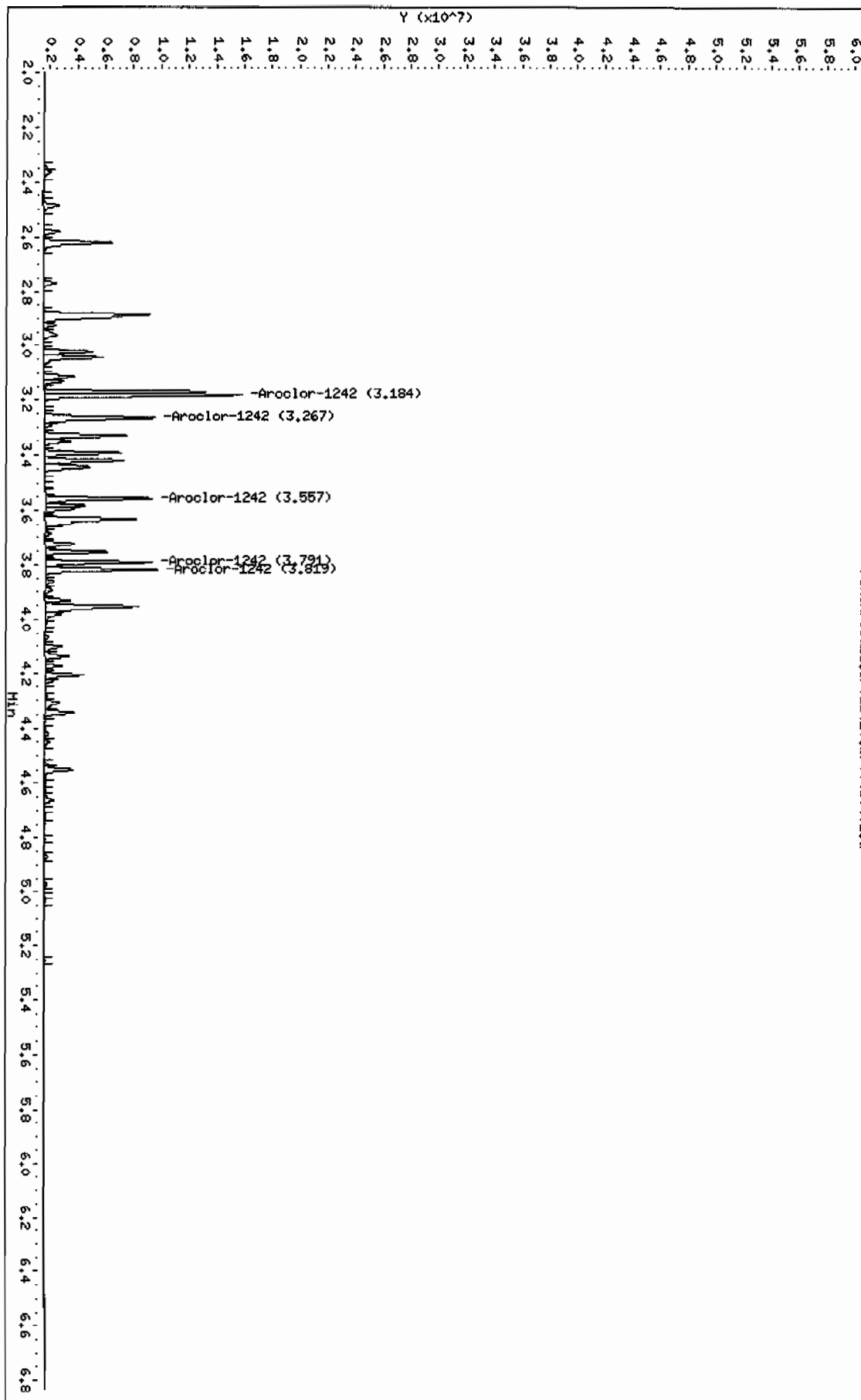
Data File: /chem/ecdl1.i/022410.b/004b0401.d
Date : 24-FEB-2010 06:53
Client ID: AR124201
Sample Info: 14AR100219-42

Page 1

Column phase: CLP2

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/022410.b/004b0401.d



Data File: /chem/ecdl1a.i/022410.b/005f0501.d
Report Date: 24-Feb-2010 09:42

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/005f0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 24-FEB-2010 07:04

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 09:41 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 11:47

Cal File: 034f3401.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.858	2.858	0.000	9792765 1000.00	1050	80.00- 120.00	100.00
2.993	2.993	0.000	12672690 1000.00	1020	109.41- 149.41	129.41
3.245	3.245	0.000	12781052 1000.00	1050	110.52- 150.52	130.52
3.377	3.377	0.000	10817108 1000.00	1040	90.46- 130.46	110.46
3.610	3.610	0.000	6944904 1000.00	1020	50.92- 90.92	70.92
Average of Peak Amounts "			1.04e+03			

Data File: /chem/ecdl1.i/022410.b/005f0501.d
Date : 24-FEB-2010 07:04
Client ID: AR124801
Sample Info: 1HAR100223-48

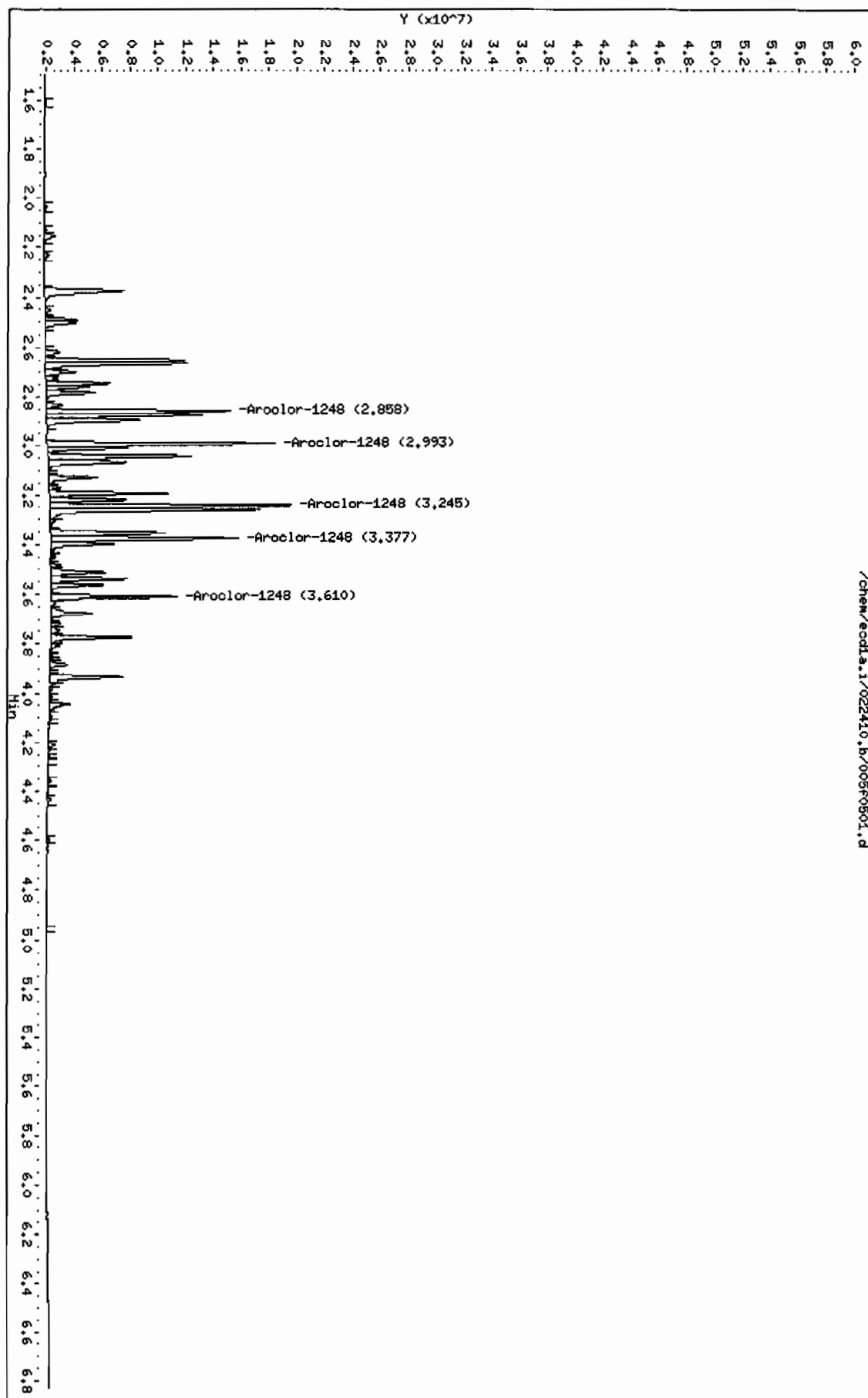
Instrument: ecdl1.i

Page 1

Column phase: CLP1

Operator: YSI
Column diameter: 0.25

/chem/ecdl1.i/022410.b/005f0501.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/005b0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 24-FEB-2010 07:04

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 24-Feb-2010 09:40 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 11:37

Cal File: 033b3301.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
5 Aroclor-1248			CAS #: 12672-29-6			
3.393	3.393	0.000	7180249 1000.00	944	80.00- 120.00	100.00
3.558	3.558	0.000	9000157 1000.00	962	105.35- 145.35	125.35
3.792	3.792	0.000	10333910 1000.00	970	123.92- 163.92	143.92
3.819	3.819	0.000	11604427 1000.00	959	141.62- 181.62	161.62
3.956	3.956	0.000	11105281 1000.00	966	134.66- 174.66	154.66
Average of Peak Amounts =			960			

Data File: /chem/eodla.i/022410.b/005b0501.d

Date: 24-FEB-2010 07:04

Client ID: AR124801

Sample Info: 11MR100223-48

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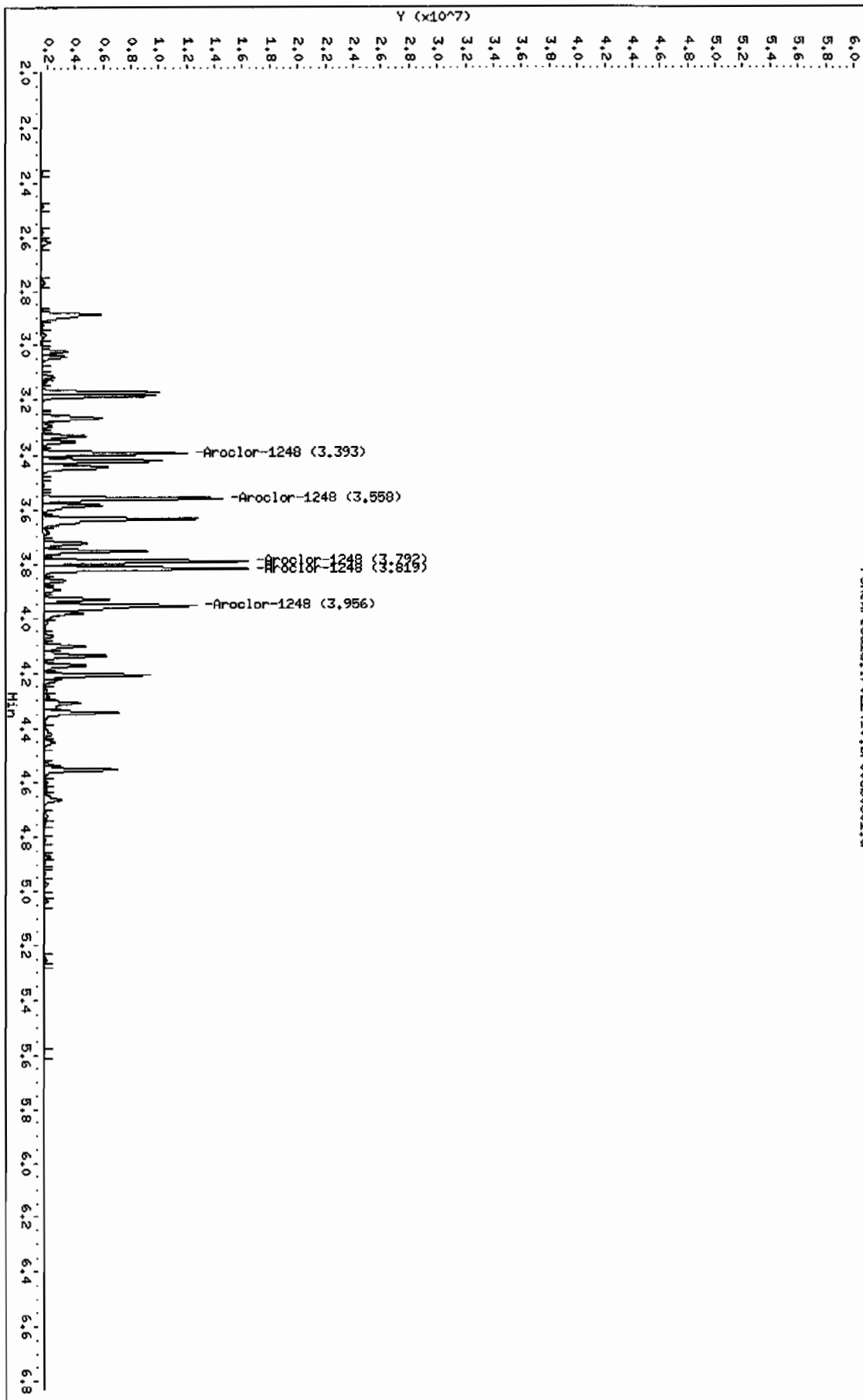
Instrument: eodla.i

Operator: YSI

Column diameter: 0.25

Column phase: CLP2

/chem/eodla.i/022410.b/005b0501.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/006f0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 24-FEB-2010 07:14
Operator : YSl Inst ID: ecd1a.i
Smp Info : |WAR100104-32
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m
Meth Date : 24-Feb-2010 09:41 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 11:47 Cal File: 034f3401.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

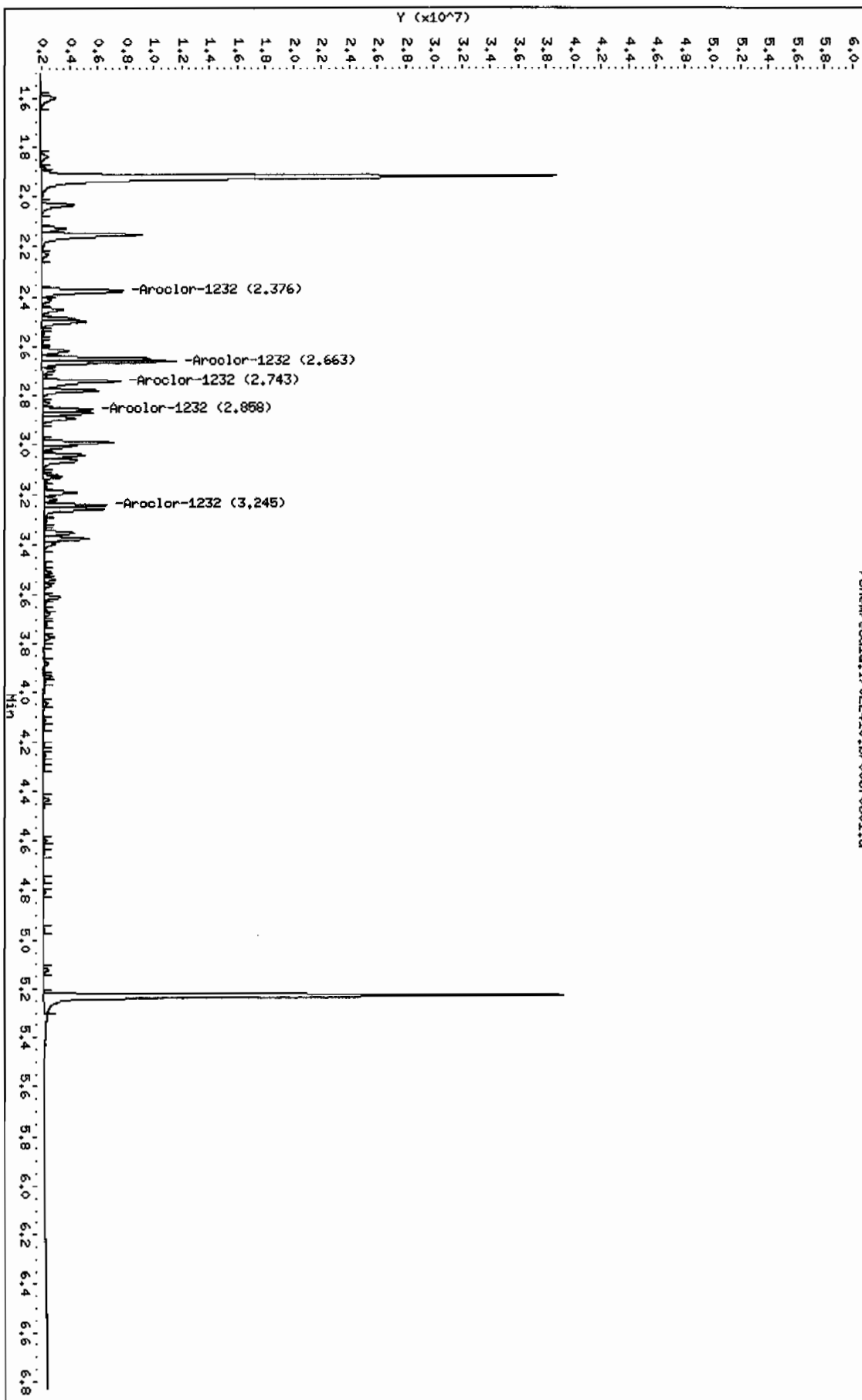
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
3 Aroclor-1232			CAS #: 11141-16-5			
2.376	2.376	0.000	6807333 1000.00	1090	80.00- 120.00	100.00
2.663	2.663	0.000	8299680 1000.00	1110	101.92- 141.92	121.92
2.743	2.743	0.000	5497358 1000.00	1120	60.76- 100.76	80.76
2.858	2.858	0.000	2625872 1000.00	1200	18.57- 58.57	38.57
3.245	3.245	0.000	3329983 1000.00	1220	28.92- 68.92	48.92
Average of Peak Amounts =			1.15e+03			

Data File: /chem/ecdl.a.i/022410.b/006f0601.d
Date: 24-FEB-2010 07:14
Client ID: AR123201
Sample Info: 1MAR100104-32
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl.a.i/022410.b/006f0601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/006b0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 24-FEB-2010 07:14
Operator : YSl Inst ID: ecd1a.i
Smp Info : |WAR100104-32
Misc Info :
Comment :
Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m
Meth Date : 24-Feb-2010 09:40 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 11:37 Cal File: 033b3301.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

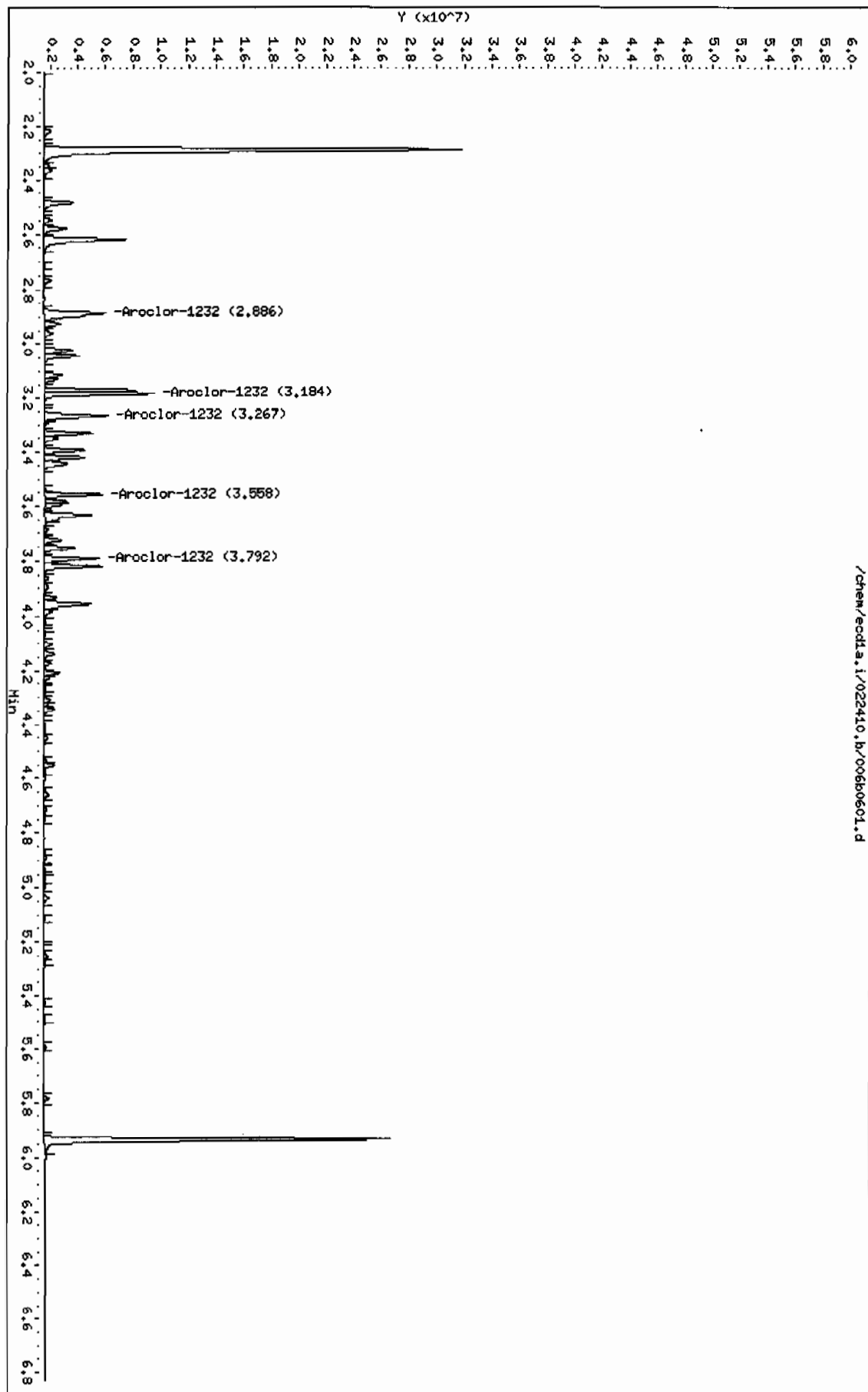
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
3 Aroclor-1232			CAS #: 11141-16-5			
2.886	2.886	0.000	5197519 1000.00	1060	80.00- 120.00	100.00
3.184	3.184	0.000	5716076 1000.00	1090	89.98- 129.98	109.98
3.267	3.267	0.000	3952071 1000.00	1050	56.04- 96.04	76.04
3.558	3.558	0.000	2908160 1000.00	1080	35.95- 75.95	55.95
3.792	3.792	0.000	2875599 1000.00	1090	35.33- 75.33	55.33
Average of Peak Amounts =			1.07e+03			

Data File: /chem/ecdl.a.i/022410.b/006b0601.d
Date: 24-FEB-2010 07:14
Client ID: AR123204
Sample Info: INAR100104-32

Column phase: CLP2

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/007f0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 24-FEB-2010 07:25

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 09:41 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 11:47

Cal File: 034f3401.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

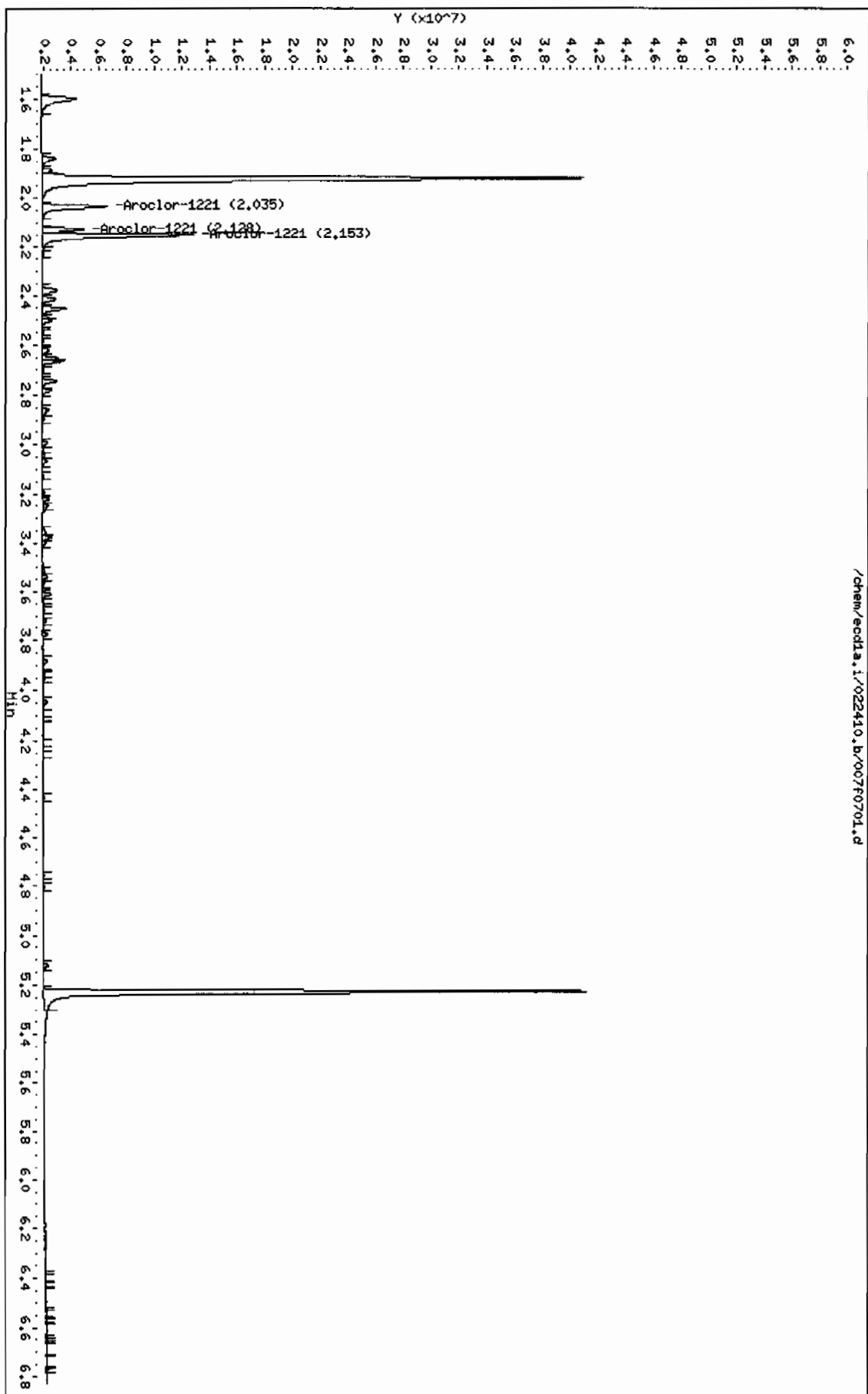
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.035	2.035	0.000	4752555 1000.00	1080	80.00- 120.00	100.00
2.128	2.128	0.000	2650625 1000.00	1090	35.77- 75.77	55.77
2.153	2.153	0.000	11342772 1000.00	1090	218.67- 258.67	238.67
Average of Peak Amounts =			1.09e+03			

Data File: /chem/ecod1a.i/022410.b/0070701.d
Date: 24-FEB-2010 07:25
Client ID: RR122101
Sample Info: IWR100104-21

Page 1

Column phase: CLP1

Instrument: ecod1a.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 24-FEB-2010 07:25

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 24-Feb-2010 09:40 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 11:37

Cal File: 033b3301.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
--	-----	-----	-----	-----	-----	-----
2 Aroclor-1221			CAS #: 11104-28-2			
2.485	2.485	0.000	3440189 1000.00	1000	80.00- 120.00	100.00
2.579	2.579	0.000	2221998 1000.00	1030	44.59- 84.59	64.59
2.620	2.620	0.000	7708272 1000.00	1050	204.07- 244.07	224.07
Average of Peak Amounts ~			1.03e+03			

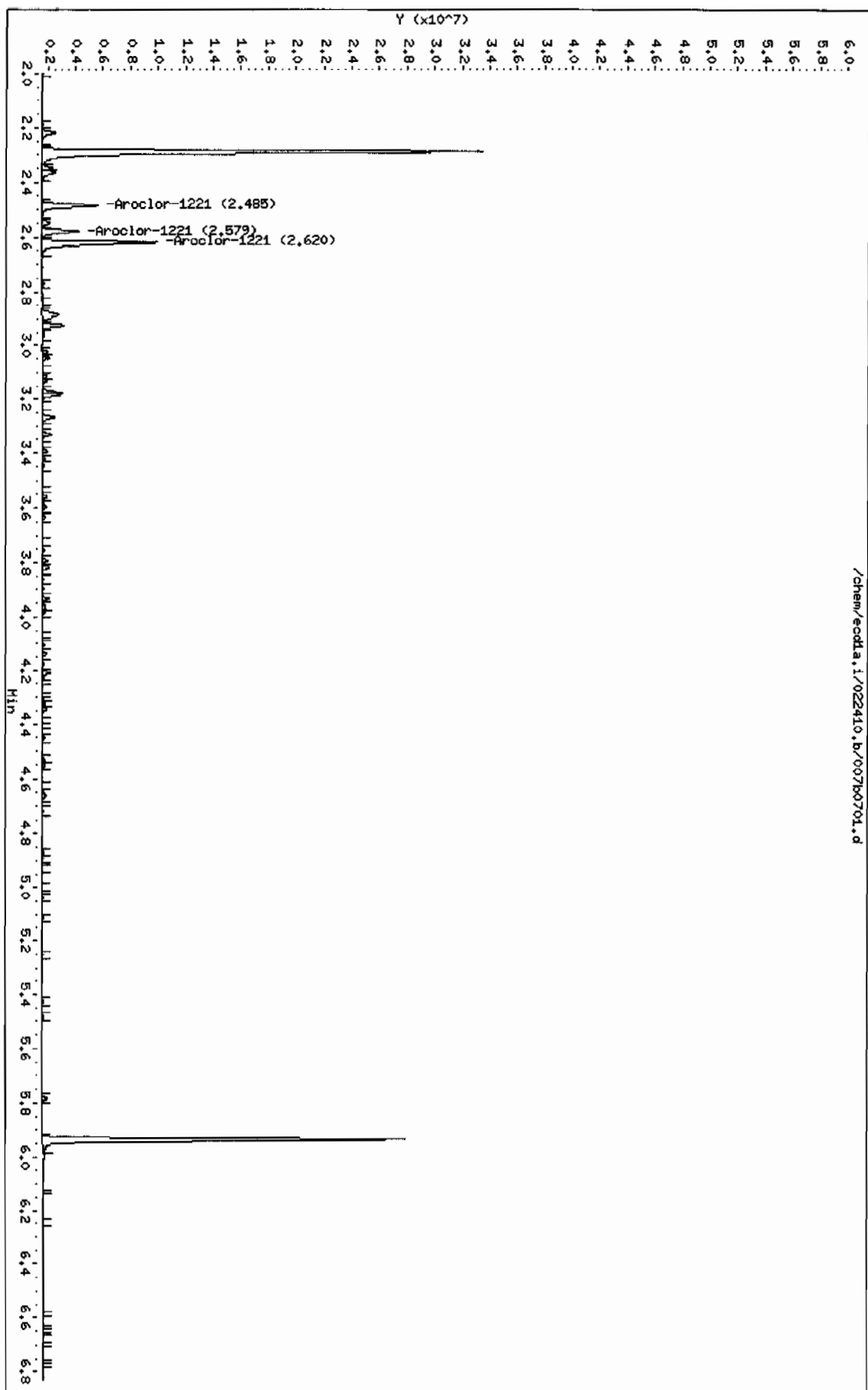
Data File: /chem/ecdda.1/022410.b/007b0701.d
Date: 24-FEB-2010 07:25
Client ID: AR122101
Sample Info: 14AR100104-21

Instrument: ecdda.1

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Column phase: CLP2

Operator: YSI
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/025f2501.d
 Lab Smp Id: WAR100222-60 03 Client Smp ID: AR166003
 Inj Date : 24-FEB-2010 10:51
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 03
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m
 Meth Date : 24-Feb-2010 11:31 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 25 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
1.921	1.922	-0.001	41347298	100.000	96.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.236	5.231	0.005	30947729	100.000	101	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.377	2.376	0.001	13945026	1000.00	906	80.00- 120.00	100.00	
2.664	2.663	0.001	17307662	1000.00	949	104.11- 144.11	124.11	
2.745	2.744	0.001	11282855	1000.00	935	60.91- 100.91	80.91	
2.783	2.781	0.002	6782373	1000.00	956	28.64- 68.64	48.64	
2.994	2.991	0.003	8688103	1000.00	975	42.30- 82.30	62.30	
Average of Peak Amounts =					944			

7 Aroclor-1260					CAS #: 11096-82-5			
3.722	3.718	0.004	18771215	1000.00	1100	80.00- 120.00	100.00	
3.885	3.881	0.004	27054979	1000.00	1140	124.13- 164.13	144.13	
4.047	4.043	0.004	28746087	1000.00	1150	133.14- 173.14	153.14	
4.115	4.111	0.004	16522205	1000.00	1150	68.02- 108.02	88.02	
4.258	4.253	0.005	16924301	1000.00	1170	70.16- 110.16	90.16	
Average of Peak Amounts =					1.14e+03			

Data File: /chem/ecda.i/022410.b/025f2501.d

Date: 24-FEB-2010 10:51

Client ID: AR16003

Sample Info: IWR100222-60 03

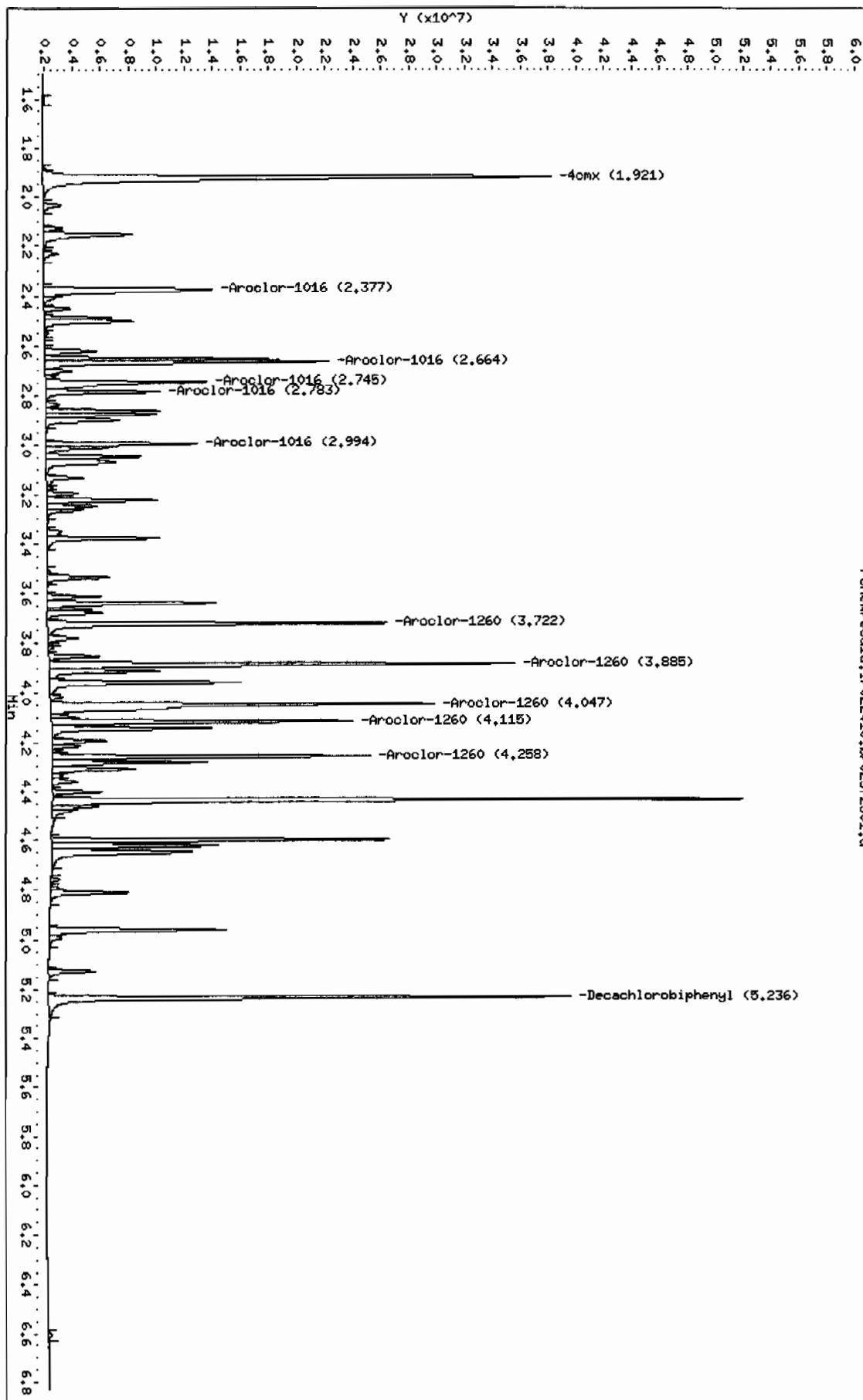
Column phase: CLP1

Instrument: ecda.i

Operator: YSI

Column diameter: 0.25

/chem/ecda.i/022410.b/025f2501.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/025b2501.d

Lab Smp Id: WAR100222-60 03

Client Smp ID: AR166003

Inj Date : 24-FEB-2010 10:51

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 03

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 24-Feb-2010 11:35 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 25

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====		=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.286	2.288	-0.002		27100403 100.000	91.1	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.938	5.935	0.003		19395574 100.000	91.7	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
3.185	3.184	0.001		11741008 1000.00	918	80.00- 120.00	100.00 (M)
3.268	3.266	0.002		7791221 1000.00	874	46.36- 86.36	66.36
3.332	3.330	0.002		4831942 1000.00	894	21.15- 61.15	41.15
3.559	3.557	0.002		6281464 1000.00	908	33.50- 73.50	53.50
3.635	3.632	0.003		5846422 1000.00	910	29.79- 69.79	49.79
Average of Peak Amounts =					901		

7 Aroclor-1260					CAS #: 11096-82-5		
4.326	4.324	0.002		12550438 1000.00	950	80.00- 120.00	100.00
4.452	4.449	0.003		15460947 1000.00	993	103.19- 143.19	123.19
4.718	4.715	0.003		11599404 1000.00	979	72.42- 112.42	92.42
4.892	4.888	0.004		12009317 1000.00	984	75.69- 115.69	95.69
5.038	5.036	0.002		26886302 1000.00	1010	194.23- 234.23	214.23
Average of Peak Amounts =					984		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eod1a.i/022410.b/025b2501.d

Date: 24-FEB-2010 10:31

Client ID: 6816003

Sample Info: 11APR100222-60 03

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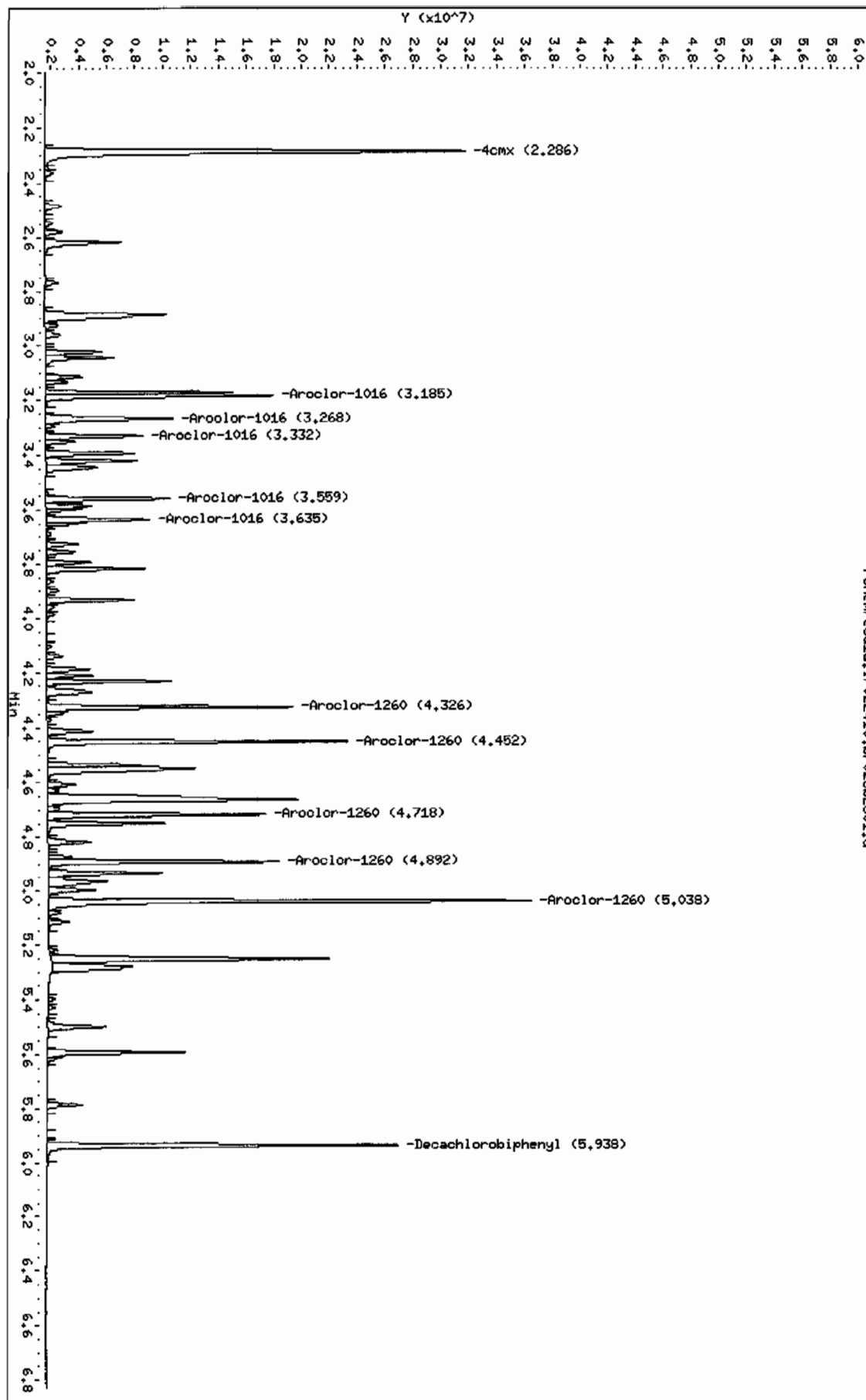
Instrument: eod1a.i

Operator: YSL

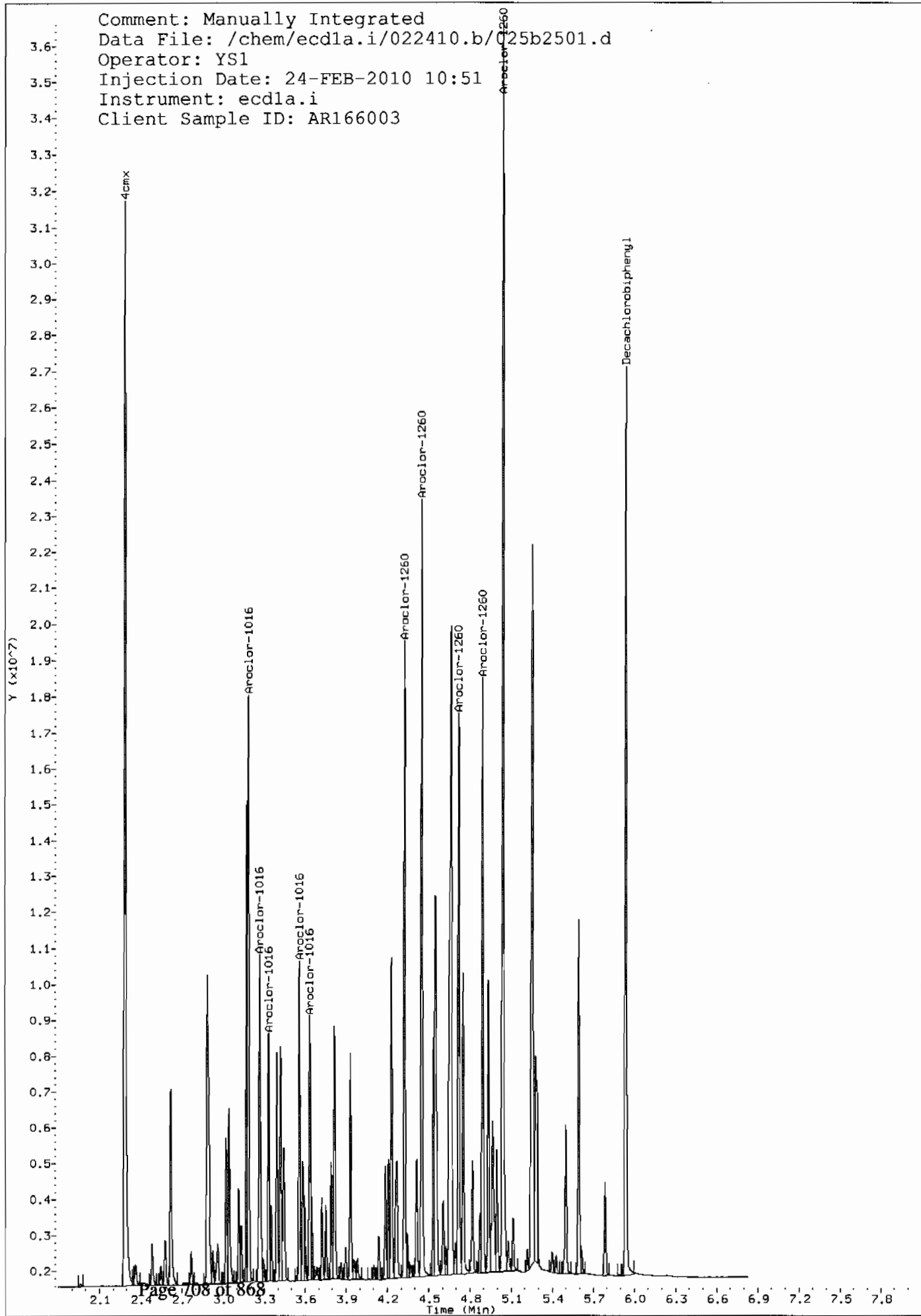
Column diameter: 0.25

Column phase: CLP2

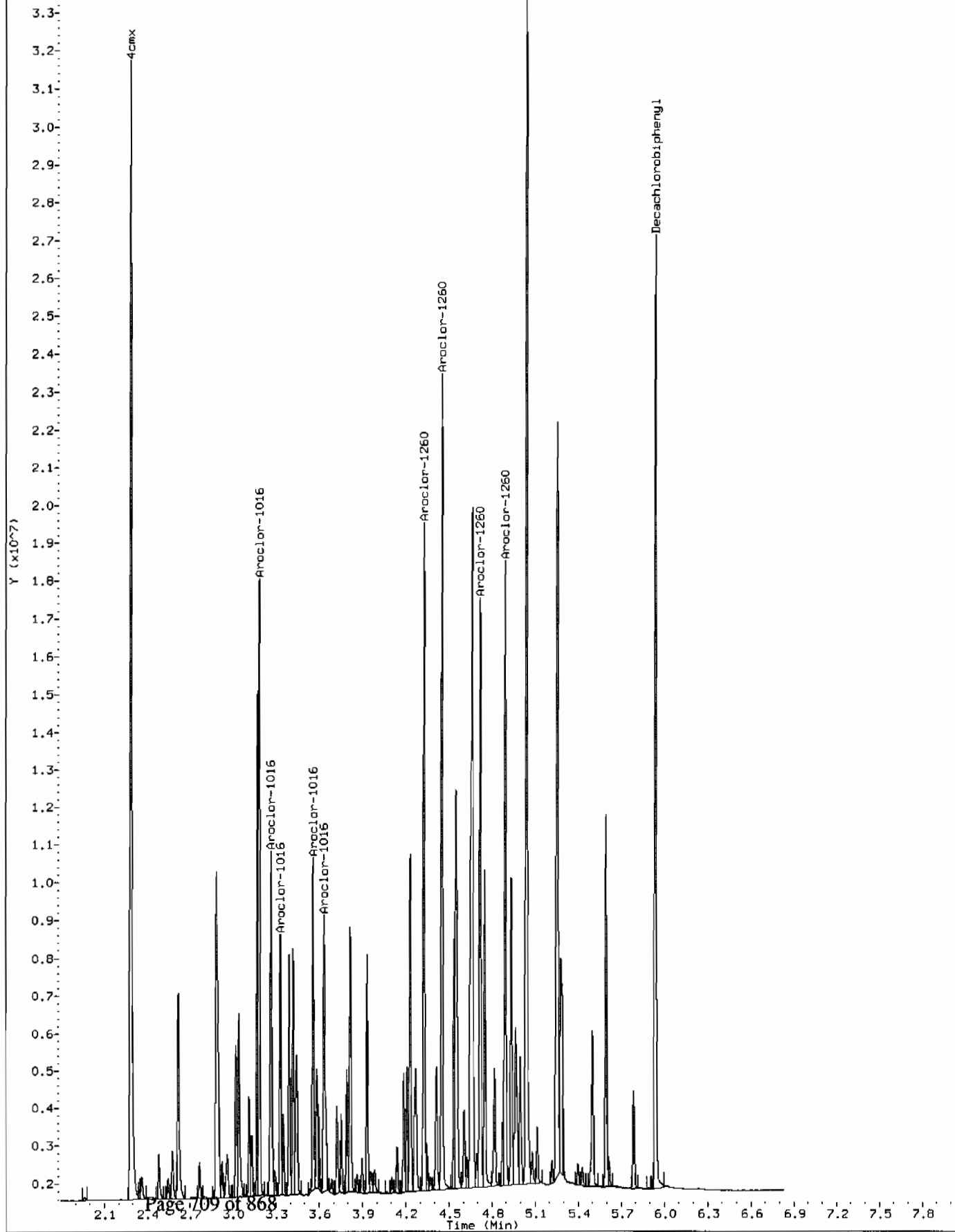
/chem/eod1a.i/022410.b/025b2501.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/022410.b/025b2501.d
Operator: YS1
Injection Date: 24-FEB-2010 10:51
Instrument: ecld1a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecdla.i/022410.b/Orig-025b2501.d
Operator: YS1
Injection Date: 24-FEB-2010 10:51
Instrument: ecdla.i
Client Sample ID: AR166003



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/037f3701.d

Lab Smp Id: WAR100222-60 04

Client Smp ID: AR166004

Inj Date : 24-FEB-2010 13:14

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 04

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 24-Feb-2010 13:47 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 37

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			
1.923	1.922	0.001	41562378	100.000	96.5	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.231	5.231	0.000	30279340	100.000	98.5	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.375	2.376	-0.001	14098891	1000.00	916	80.00-	120.00	100.00
2.663	2.663	0.000	17693202	1000.00	970	105.49-	145.49	125.49
2.743	2.744	-0.001	11362236	1000.00	942	60.59-	100.59	80.59
2.780	2.781	-0.001	6819501	1000.00	961	28.37-	68.37	48.37
2.990	2.991	-0.001	8610537	1000.00	966	41.07-	81.07	61.07
Average of Peak Amounts =					951			

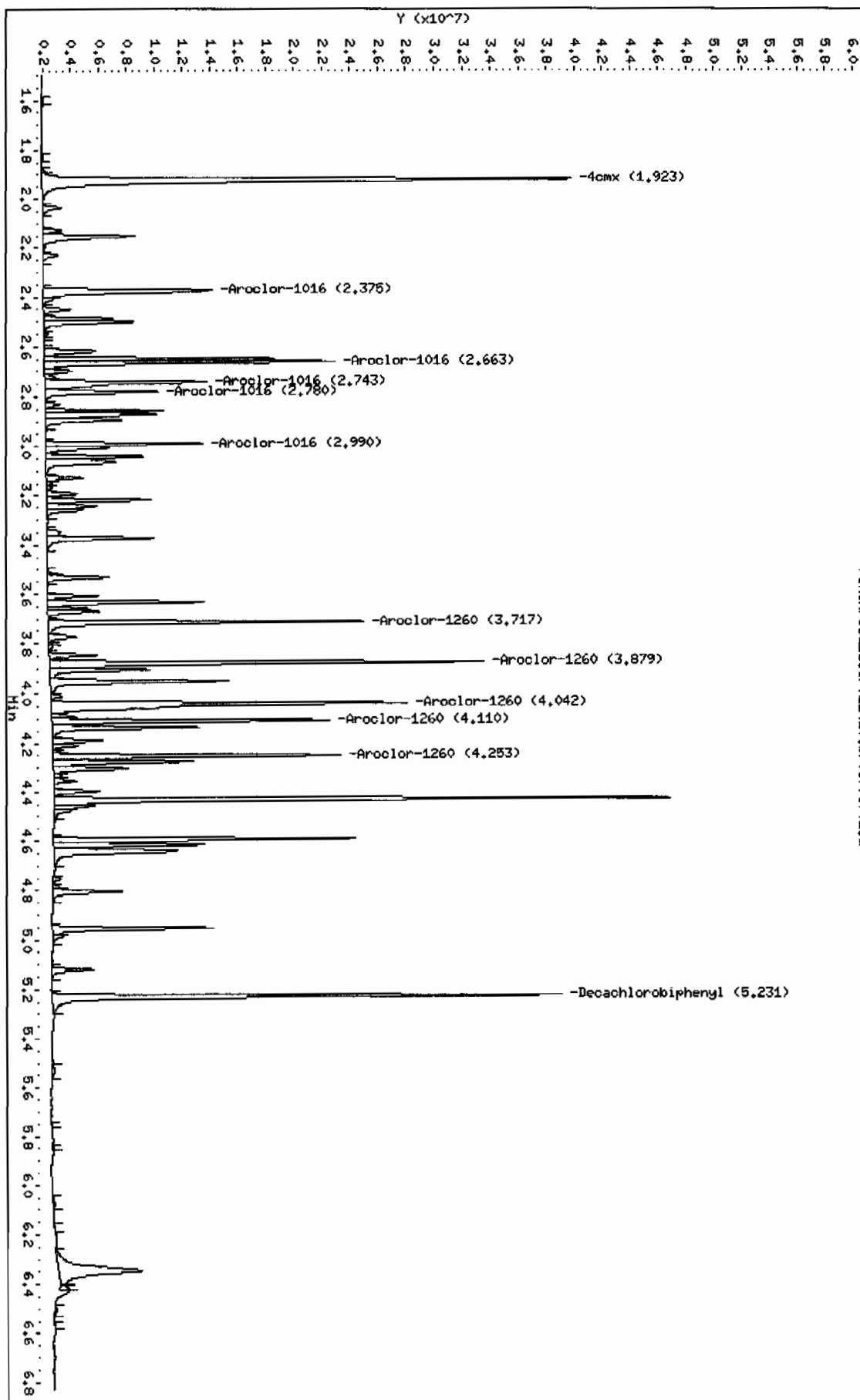
7 Aroclor-1260					CAS #: 11096-82-5			
3.717	3.718	-0.001	17340289	1000.00	1020	80.00-	120.00	100.00
3.879	3.881	-0.002	25076356	1000.00	1060	124.61-	164.61	144.61
4.042	4.043	-0.001	26785373	1000.00	1070	134.47-	174.47	154.47
4.110	4.111	-0.001	15264596	1000.00	1060	68.03-	108.03	88.03
4.253	4.253	0.000	15675993	1000.00	1090	70.40-	110.40	90.40
Average of Peak Amounts =					1.06e+03			

Data File: /chem/ecdl.i/022410.b/0373701.d
Date: 24-FEB-2010 13:14
Client ID: AR166004
Sample Info: WARR00222-60 04

Column phase: CLP1

Instrument: ecdl.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl.i/022410.b/0373701.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/037b3701.d

Lab Smp Id: WAR100222-60 04

Client Smp ID: AR166004

Inj Date : 24-FEB-2010 13:14

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 04

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 24-Feb-2010 13:47 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 37

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx						CAS #: 877-09-8		
2.288	2.288	0.000	27066959	100.000	91.0	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
5.934	5.935	-0.001	18462978	100.000	87.3	80.00-	120.00	100.00

1 Aroclor-1016						CAS #: 12674-11-2		
3.184	3.184	0.000	11710642	1000.00	916	80.00-	120.00	100.00 (M)
3.266	3.266	0.000	7731938	1000.00	867	46.02-	86.02	66.02
3.330	3.330	0.000	4787140	1000.00	886	20.88-	60.88	40.88
3.557	3.557	0.000	5980682	1000.00	865	31.07-	71.07	51.07
3.633	3.632	0.001	5536976	1000.00	862	27.28-	67.28	47.28
Average of Peak Amounts =					879			

7 Aroclor-1260						CAS #: 11096-82-5		
4.324	4.324	0.000	11417358	1000.00	864	80.00-	120.00	100.00
4.449	4.449	0.000	14017795	1000.00	900	102.78-	142.78	122.78
4.714	4.715	-0.001	10357784	1000.00	874	70.72-	110.72	90.72
4.889	4.888	0.001	10693470	1000.00	876	73.66-	113.66	93.66
5.035	5.036	-0.001	24125068	1000.00	909	191.30-	231.30	211.30
Average of Peak Amounts =					885			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eodla.i/022410.b/037b3701.d
Date: 24-FEB-2010 13:14
Client ID: AR166004
Sample Info: IAR100222-60 04

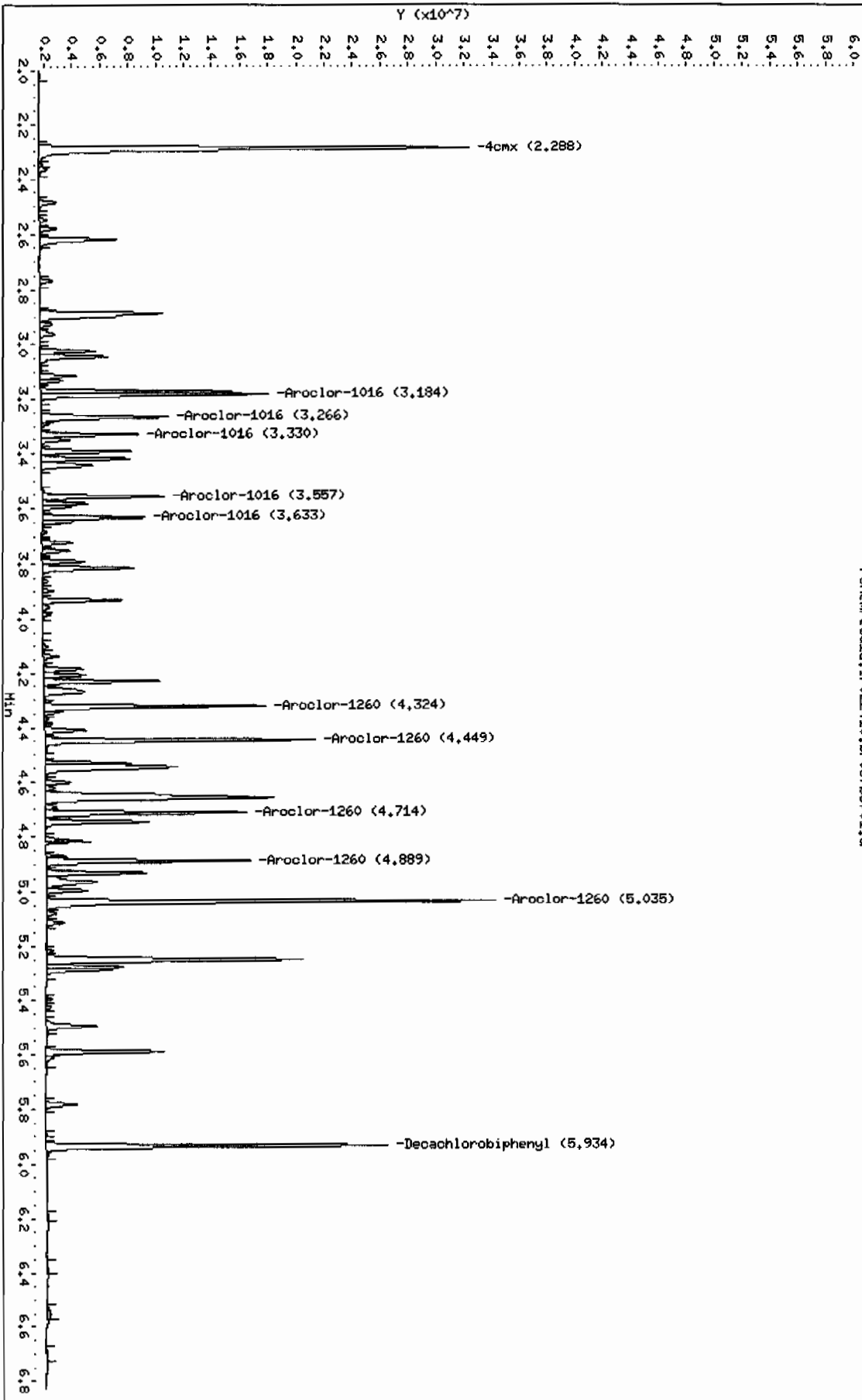
Instrument: eodla.i

Page 1

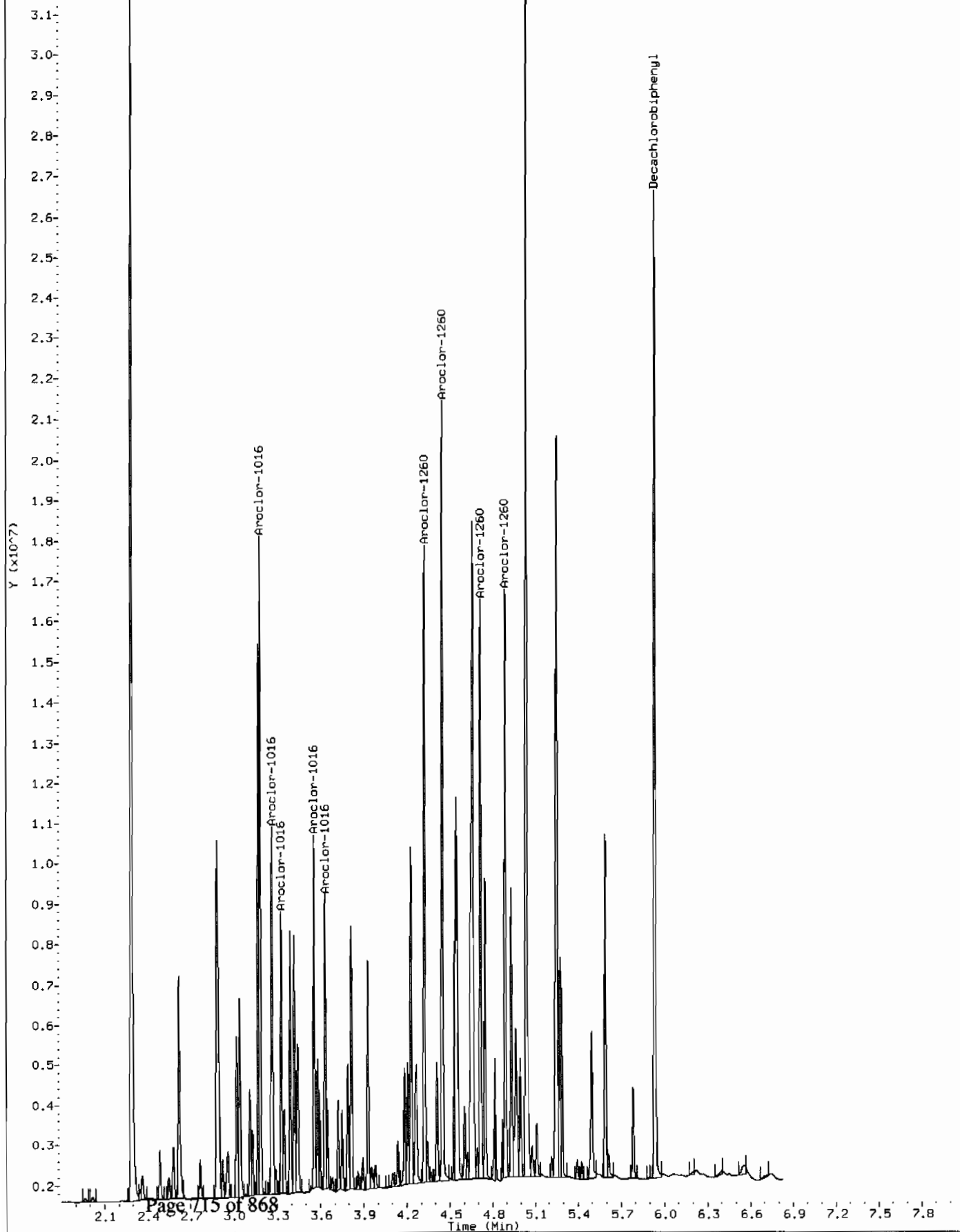
Column phase: CLP2

Operator: YSL
Column diameter: 0.25

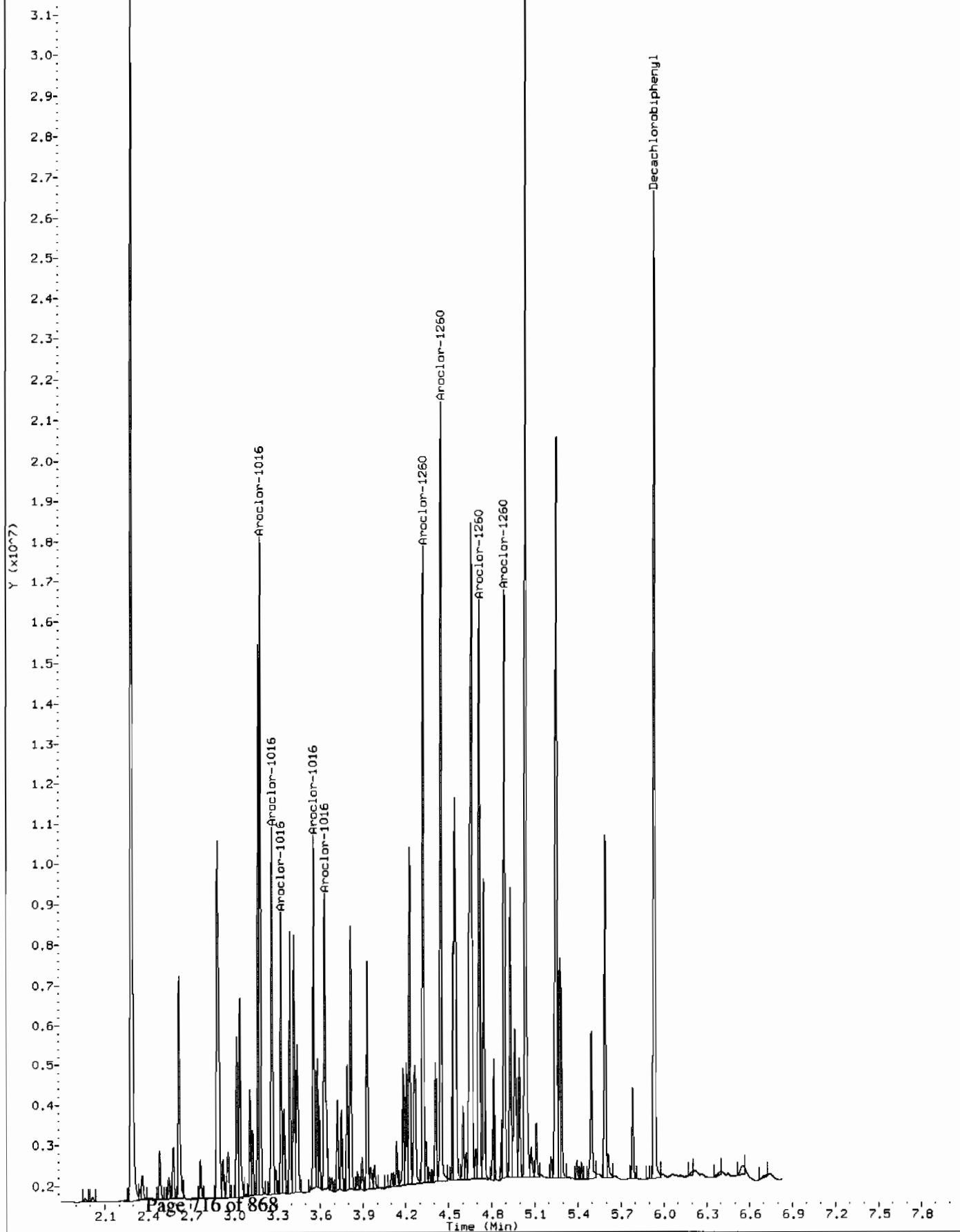
/chem/eodla.i/022410.b/037b3701.d



Comment: Manually Integrated
Data File: /chem/ecdl1.i/022410.b/037b3701.d
Operator: YS1
Injection Date: 24-FEB-2010 13:14
Instrument: ecd1a.i
Client Sample ID: AR166004



Comment: Before manual integration
Data File: /chem/ecdl1.i/022410.b/Orig-037b3701.d
Operator: YSl
Injection Date: 24-FEB-2010 13:14
Instrument: ecd1a.i
Client Sample ID: AR166004



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/045f4501.d
 Lab Smp Id: WAR100222-60 05 Client Smp ID: AR166005
 Inj Date : 24-FEB-2010 14:51
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 05
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m
 Meth Date : 25-Feb-2010 06:09 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 45 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpclp1

AMOUNTS

			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.922	1.922	0.000	40475433	100.000	94.0	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.230	5.231	-0.001	30325807	100.000	98.7	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.375	2.376	-0.001	14129874	1000.00	918	80.00- 120.00	100.00
2.662	2.663	-0.001	16861583	1000.00	924	99.33- 139.33	119.33
2.742	2.744	-0.002	11056455	1000.00	916	58.25- 98.25	78.25
2.780	2.781	-0.001	6653749	1000.00	938	27.09- 67.09	47.09
2.990	2.991	-0.001	8474332	1000.00	951	39.97- 79.97	59.97
Average of Peak Amounts =					930		

7 Aroclor-1260					CAS #: 11096-82-5		
3.717	3.718	-0.001	17024349	1000.00	997	80.00- 120.00	100.00
3.879	3.881	-0.002	24526980	1000.00	1040	124.07- 164.07	144.07
4.041	4.043	-0.002	25989653	1000.00	1040	132.66- 172.66	152.66
4.110	4.111	-0.001	14958746	1000.00	1040	67.87- 107.87	87.87
4.252	4.253	-0.001	15487664	1000.00	1070	70.97- 110.97	90.97
Average of Peak Amounts =					1.04e+03		

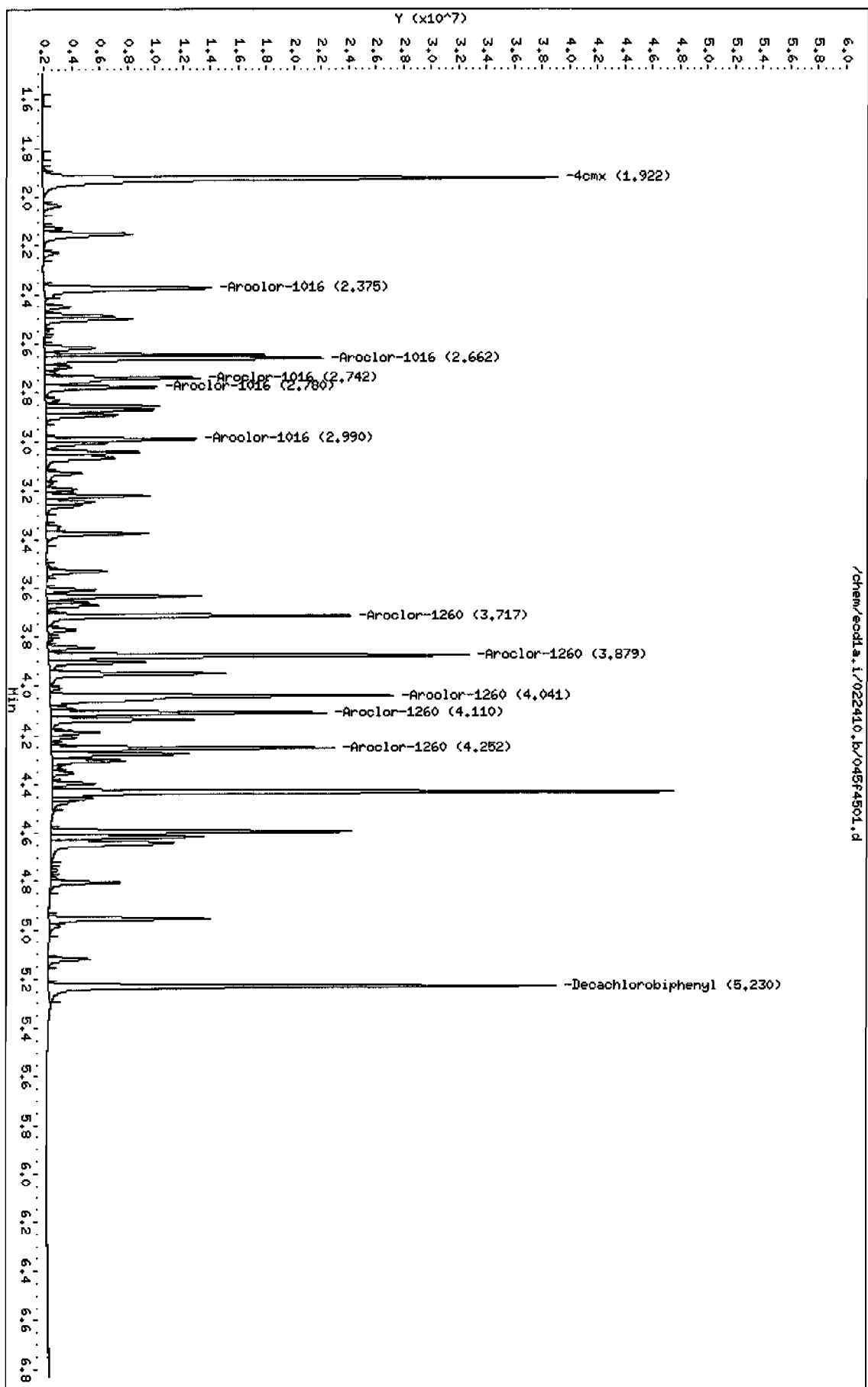
Data File: /chem/eodla.i/022410.b/045f4501.d
Date : 24-FEB-2010 14:51
Client ID: ARI66005
Sample Info: IMPR100222-60 05

Instrument: eodla.i

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Column phase: CLP1

Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/045b4501.d

Lab Smp Id: WAR100222-60 05

Client Smp ID: AR166005

Inj Date : 24-FEB-2010 14:51

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 05

Misc Info :

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 25-Feb-2010 06:10 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 45

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx					CAS #: 877-09-8			
2.287	2.288	-0.001	26613848	100.000	89.5	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.934	5.935	-0.001	19230161	100.000	90.9	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.183	3.184	-0.001	11421692	1000.00	893	80.00- 120.00	100.00 (M)	
3.266	3.266	0.000	7692757	1000.00	863	45.24- 85.24	67.35	
3.329	3.330	-0.001	4743304	1000.00	877	20.45- 60.45	41.53	
3.557	3.557	0.000	6193519	1000.00	896	30.19- 70.19	54.23	
3.632	3.632	0.000	5715125	1000.00	889	36.05- 76.05	60.48	
Average of Peak Amounts =					884			

7 Aroclor-1260					CAS #: 11096-82-5			
4.322	4.324	-0.002	11557265	1000.00	875	80.00- 120.00	100.00	
4.447	4.449	-0.002	14291651	1000.00	918	102.94- 142.94	123.66	
4.714	4.715	-0.001	10709568	1000.00	904	71.18- 111.18	92.67	
4.888	4.888	0.000	11071388	1000.00	907	73.56- 113.56	95.80	
5.035	5.036	-0.001	24692537	1000.00	931	188.42- 228.42	213.65	
Average of Peak Amounts =					907			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.i/022410.b/045b4501.d

Date: 24-FEB-2010 14:51

Client ID: AR166005

Sample Info: IMR10022-60 05

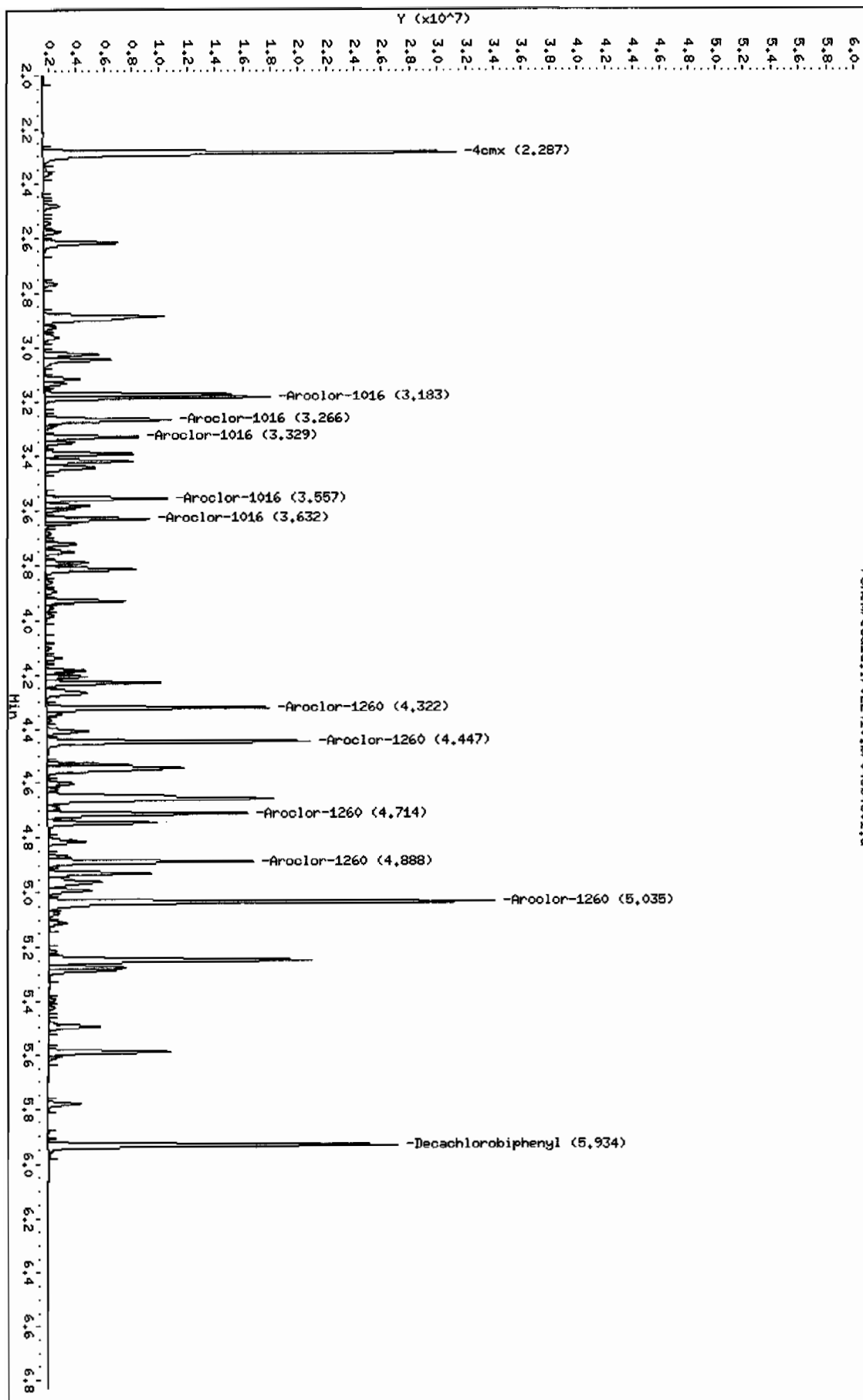
Instrument: ecdl1.i

Operator: VSI

Column diameter: 0.25

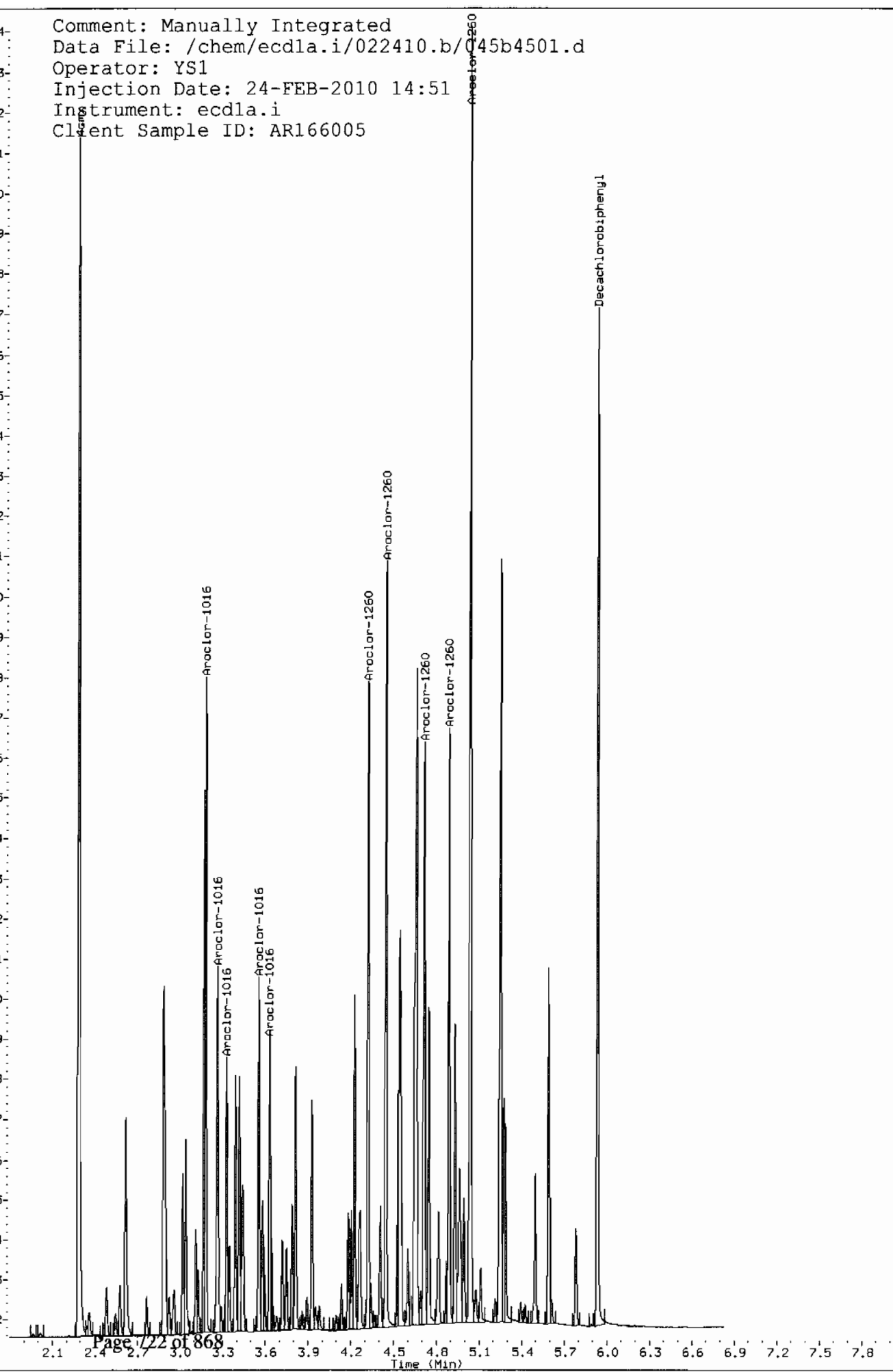
Column phase: CLP2

/chem/ecdl1.i/022410.b/045b4501.d

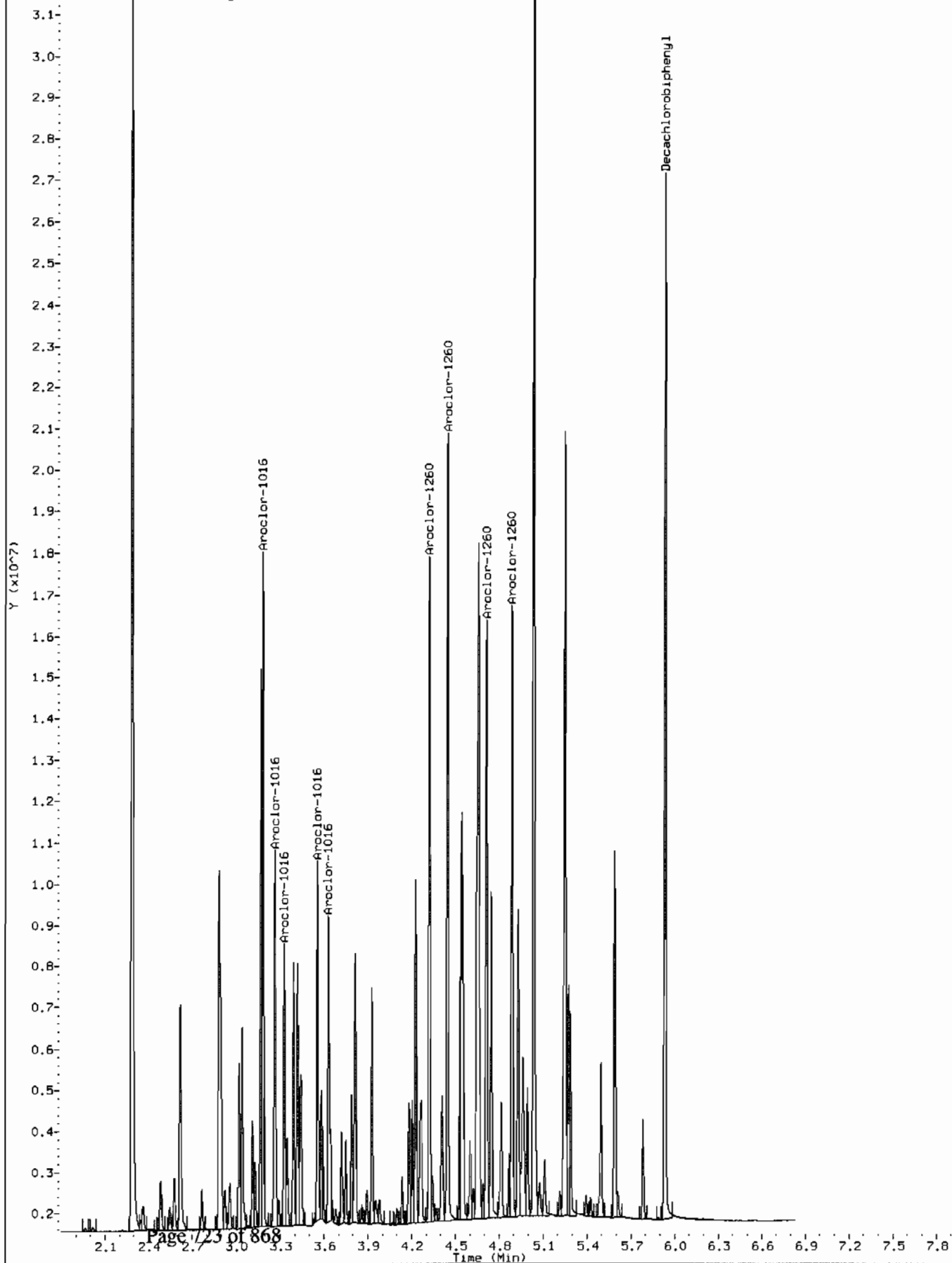


Comment: Manually Integrated
Data File: /chem/ecdl1.i/022410.b/045b4501.d
Operator: YS1
Injection Date: 24-FEB-2010 14:51
Instrument: ecd1a.i
Client Sample ID: AR166005

Y (x10⁻⁷)



Comment: Before manual integration
Data File: /chem/ecdla.i/022410.b/Orig-045b4501.d
Operator: YS1
Injection Date: 24-FEB-2010 14:51
Instrument: ecdla.i
Client Sample ID: AR166005



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.: 10-1864

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	PIBLK01	WAR100219-99	02/22/10	0559	1.92	5.23
02	ZZZZZ	ZZZZZ	02/22/10	0610	1.92	5.23
03	ZZZZZ	ZZZZZ	02/22/10	0620	1.92	5.23
04	DDTANALOGSTD	WAR091219-DD	02/22/10	0631		
05	AR123201	WAR100104-32	02/22/10	0641		
06	AR122101	WAR100104-21	02/22/10	0652		
07	AR126201	WAR100104-62	02/22/10	0703		
08	AR166001	WAR100222-01	02/22/10	0713	1.92	5.23
09	AR166002	WAR100222-02	02/22/10	0724	1.92	5.23
10	AR166003	WAR100222-03	02/22/10	0734	1.92	5.23
11	AR166004	WAR100222-04	02/22/10	0745	1.92	5.23
12	AR166005	IAR100104-01	02/22/10	0755	1.92	5.23
13	AR166001	WAR100203-60	02/22/10	0806	1.92	5.23
14	AR125401	WAR100222-05	02/22/10	0816		
15	AR125402	WAR100222-06	02/22/10	0827		
16	AR125403	WAR100222-07	02/22/10	0837		
17	AR125404	WAR100222-08	02/22/10	0848		
18	AR125405	IAR100219-02	02/22/10	0859		
19	AR125401	WAR100219-54	02/22/10	0909		
20	AR124201	WAR100222-09	02/22/10	0920		
21	AR124202	WAR100222-10	02/22/10	0930		
22	AR124203	WAR100222-11	02/22/10	0941		
23	AR124204	WAR100222-12	02/22/10	0951		
24	AR124205	IAR100219-01	02/22/10	1002		
25	AR124201	WAR100219-42	02/22/10	1012		
26	AR124801	WAR100222-13	02/22/10	1023		
27	AR124802	WAR100222-14	02/22/10	1033		
28	AR124803	WAR100222-15	02/22/10	1044		
29	AR124805	IAR100211-01	02/22/10	1054		
30	AR124804	WAR100222-16	02/22/10	1105		
31	AR124801	WAR091217-48	02/22/10	1116		
32	AR126801	WAR100222-17	02/22/10	1126		

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.: 10-1864

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.92				DCB: 5.23			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	AR126802	WAR100222-18	02/22/10	1137			
02	AR126803	WAR100222-19	02/22/10	1147			
03	AR126804	WAR100222-20	02/22/10	1158			
04	AR126805	IAR100104-05	02/22/10	1208			
05	AR126801	WAR100107-68	02/22/10	1219			
06	PIBLK02	WAR100219-99	02/22/10	1229	1.92		5.23
07	ZZZZZ	ZZZZZ	02/22/10	1240	1.92		5.23
08	ZZZZZ	ZZZZZ	02/22/10	1250	1.93		5.23
09	ZZZZZ	ZZZZZ	02/22/10	1301	1.92		5.23
10	ZZZZZ	ZZZZZ	02/22/10	1314	1.92		5.23
11	ZZZZZ	ZZZZZ	02/22/10	1326	1.92		5.23
12	ZZZZZ	ZZZZZ	02/22/10	1339	1.92		5.23
13	ZZZZZ	ZZZZZ	02/22/10	1351	1.92		5.23
14	ZZZZZ	ZZZZZ	02/22/10	1404	1.92		5.23
15	ZZZZZ	ZZZZZ	02/22/10	1417	1.92		5.23
16	ZZZZZ	ZZZZZ	02/22/10	1430	1.92		5.23
17	AR166002	WAR100203-60	02/22/10	1442	1.92		5.23
18	PIBLK03	WAR100219-99	02/22/10	1453	1.92		5.23
19	ZZZZZ	ZZZZZ	02/22/10	1503	1.92		5.23
20	ZZZZZ	ZZZZZ	02/22/10	1516	1.92		5.23
21	ZZZZZ	ZZZZZ	02/22/10	1528	1.92		5.23
22	ZZZZZ	ZZZZZ	02/22/10	1541	1.92		5.23
23	ZZZZZ	ZZZZZ	02/22/10	1554	1.92		5.23
24	ZZZZZ	ZZZZZ	02/22/10	1606	1.92		5.23
25	ZZZZZ	ZZZZZ	02/22/10	1619	1.92		5.23
26	ZZZZZ	ZZZZZ	02/22/10	1632	1.92		5.23
27	ZZZZZ	ZZZZZ	02/22/10	1644	1.92		5.23
28	ZZZZZ	ZZZZZ	02/22/10	1657	1.92		5.23
29	AR166003	WAR100203-60	02/22/10	1710	1.92		5.23
30	PIBLK04	WAR100219-99	02/22/10	1722	1.92		5.23
31	ZZZZZ	ZZZZZ	02/22/10	1735	1.92		5.23
32	ZZZZZ	ZZZZZ	02/22/10	1748	1.92		5.23

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.: 10-1864

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.94			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100219-99	02/22/10	0559	2.29	5.93
02	ZZZZZ	ZZZZZ	02/22/10	0610	2.29	5.94
03	ZZZZZ	ZZZZZ	02/22/10	0620	2.29	5.94
04	DDTANALOGSTD	WAR091219-DD	02/22/10	0631		
05	AR123201	WAR100104-32	02/22/10	0641		
06	AR122101	WAR100104-21	02/22/10	0652		
07	AR126201	WAR100104-62	02/22/10	0703		
08	AR166001	WAR100222-01	02/22/10	0713	2.29	5.94
09	AR166002	WAR100222-02	02/22/10	0724	2.29	5.94
10	AR166003	WAR100222-03	02/22/10	0734	2.29	5.94
11	AR166004	WAR100222-04	02/22/10	0745	2.29	5.94
12	AR166005	IAR100104-01	02/22/10	0755	2.29	5.94
13	AR166001	WAR100203-60	02/22/10	0806	2.29	5.94
14	AR125401	WAR100222-05	02/22/10	0816		
15	AR125402	WAR100222-06	02/22/10	0827		
16	AR125403	WAR100222-07	02/22/10	0837		
17	AR125404	WAR100222-08	02/22/10	0848		
18	AR125405	IAR100219-02	02/22/10	0859		
19	AR125401	WAR100219-54	02/22/10	0909		
20	AR124201	WAR100222-09	02/22/10	0920		
21	AR124202	WAR100222-10	02/22/10	0930		
22	AR124203	WAR100222-11	02/22/10	0941		
23	AR124204	WAR100222-12	02/22/10	0951		
24	AR124205	IAR100219-01	02/22/10	1002		
25	AR124201	WAR100219-42	02/22/10	1012		
26	AR124801	WAR100222-13	02/22/10	1023		
27	AR124802	WAR100222-14	02/22/10	1033		
28	AR124803	WAR100222-15	02/22/10	1044		
29	AR124805	IAR100211-01	02/22/10	1054		
30	AR124804	WAR100222-16	02/22/10	1105		
31	AR124801	WAR091217-48	02/22/10	1116		
32	AR126801	WAR100222-17	02/22/10	1126		

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.: 10-1864

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29			DCB: 5.94		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR126802	WAR100222-18	02/22/10 1137		
02	AR126803	WAR100222-19	02/22/10 1147		
03	AR126804	WAR100222-20	02/22/10 1158		
04	AR126805	IAR100104-05	02/22/10 1208		
05	AR126801	WAR100107-68	02/22/10 1219		
06	PIBLK02	WAR100219-99	02/22/10 1229	2.29	5.94
07	ZZZZZ	ZZZZZ	02/22/10 1240	2.29	5.94
08	ZZZZZ	ZZZZZ	02/22/10 1250	2.29	5.94
09	ZZZZZ	ZZZZZ	02/22/10 1301	2.29	5.94
10	ZZZZZ	ZZZZZ	02/22/10 1314	2.29	5.94
11	ZZZZZ	ZZZZZ	02/22/10 1326	2.29	5.94
12	ZZZZZ	ZZZZZ	02/22/10 1339	2.29	5.93
13	ZZZZZ	ZZZZZ	02/22/10 1351	2.29	5.93
14	ZZZZZ	ZZZZZ	02/22/10 1404	2.29	5.94
15	ZZZZZ	ZZZZZ	02/22/10 1417	2.29	5.93
16	ZZZZZ	ZZZZZ	02/22/10 1430	2.29	5.93
17	AR166002	WAR100203-60	02/22/10 1442	2.29	5.94
18	PIBLK03	WAR100219-99	02/22/10 1453	2.29	5.94
19	ZZZZZ	ZZZZZ	02/22/10 1503	2.29	5.94
20	ZZZZZ	ZZZZZ	02/22/10 1516	2.29	5.93
21	ZZZZZ	ZZZZZ	02/22/10 1528	2.29	5.93
22	ZZZZZ	ZZZZZ	02/22/10 1541	2.29	5.94
23	ZZZZZ	ZZZZZ	02/22/10 1554	2.29	5.93
24	ZZZZZ	ZZZZZ	02/22/10 1606	2.29	5.93
25	ZZZZZ	ZZZZZ	02/22/10 1619	2.29	5.94
26	ZZZZZ	ZZZZZ	02/22/10 1632	2.29	5.93
27	ZZZZZ	ZZZZZ	02/22/10 1644	2.29	5.93
28	ZZZZZ	ZZZZZ	02/22/10 1657	2.29	5.93
29	AR166003	WAR100203-60	02/22/10 1710	2.29	5.93
30	PIBLK04	WAR100219-99	02/22/10 1722	2.29	5.93
31	ZZZZZ	ZZZZZ	02/22/10 1735	2.29	5.93
32	ZZZZZ	ZZZZZ	02/22/10 1748	2.29	5.94

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/24/10	0622	1.92	5.23
02	AR166001	WAR100222-60	02/24/10	0632	1.92	5.23
03	AR125401	WAR100219-54	02/24/10	0643		
04	AR124201	WAR100219-42	02/24/10	0653		
05	AR124801	WAR100223-48	02/24/10	0704		
06	AR123201	WAR100104-32	02/24/10	0714		
07	AR122101	WAR100104-21	02/24/10	0725		
08	AR126201	WAR100104-62	02/24/10	0735		
09	AR126801	WAR100107-68	02/24/10	0746		
10	DDTANALOGSTD	WAR091219-DD	02/24/10	0757		
11	PIBLK02	WAR100219-99	02/24/10	0807	1.92	5.23
12	ZZZZZ	ZZZZZ	02/24/10	0818	1.92	5.23
13	ZZZZZ	ZZZZZ	02/24/10	0828	1.92	5.23
14	ZZZZZ	ZZZZZ	02/24/10	0839	1.92	5.23
15	ZZZZZ	ZZZZZ	02/24/10	0849	1.92	5.23
16	ZZZZZ	ZZZZZ	02/24/10	0902	1.92	5.23
17	ZZZZZ	ZZZZZ	02/24/10	0914	1.92	5.23
18	ZZZZZ	ZZZZZ	02/24/10	0927	1.92	5.23
19	AR166002	WAR100222-60	02/24/10	0941	1.92	5.23
20	PIBLK03	WAR100219-99	02/24/10	0951	1.92	5.23
21	ZZZZZ	ZZZZZ	02/24/10	1002	1.92	5.23
22	ZZZZZ	ZZZZZ	02/24/10	1012	1.92	5.23
23	ZZZZZ	ZZZZZ	02/24/10	1023	1.92	5.23
24	ZZZZZ	ZZZZZ	02/24/10	1033	1.92	5.23
25	AR166003	WAR100222-60	02/24/10	1051	1.92	5.24
26	PIBLK04	WAR100219-99	02/24/10	1101	1.92	5.23
27	PBLK01	1202050442	02/24/10	1112	1.92	5.23
28	PBLK01LCS	1202050443	02/24/10	1122	1.92	5.23
29	ZZZZZ	ZZZZZ	02/24/10	1133	1.92	5.23
30	ZZZZZ	ZZZZZ	02/24/10	1146	1.92	5.23
31	ZZZZZ	ZZZZZ	02/24/10	1158	1.92	5.23
32	ZZZZZ	ZZZZZ	02/24/10	1211	1.92	5.23

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864
 GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.92				DCB: 5.23			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	ZZZZZ	ZZZZZ	02/24/10	1223	1.92		5.23
02	ZZZZZ	ZZZZZ	02/24/10	1236	1.92		5.23
03	ZZZZZ	ZZZZZ	02/24/10	1249	1.92		5.23
04	ZZZZZ	ZZZZZ	02/24/10	1301	1.92		5.23
05	AR166004	WAR100222-60	02/24/10	1314	1.92		5.23
06	PIBLK05	WAR100219-99	02/24/10	1324	1.92		5.23
07	ZZZZZ	ZZZZZ	02/24/10	1335	1.92		5.23
08	RE15-10-8186	247193002	02/24/10	1348	1.92		5.23
09	RE15-10-8187	247193006	02/24/10	1400	1.92		5.23
10	RE15-10-8190	247193008	02/24/10	1413	1.92		5.23
11	RE15-10-8226	247193013	02/24/10	1425	1.92		5.23
12	RE15-10-8211	247193014	02/24/10	1438	1.92		5.23
13	AR166005	WAR100222-60	02/24/10	1451	1.92		5.23
14	PIBLK06	WAR100219-99	02/24/10	1501	1.92		5.23
15	ZZZZZ	ZZZZZ	02/24/10	1512	1.92		5.23
16	ZZZZZ	ZZZZZ	02/24/10	1524	1.92		5.23
17	ZZZZZ	ZZZZZ	02/24/10	1537	1.92		5.23
18	ZZZZZ	ZZZZZ	02/24/10	1550	1.92		5.23
19	ZZZZZ	ZZZZZ	02/24/10	1602	1.92		5.23
20	ZZZZZ	ZZZZZ	02/24/10	1615	1.92		5.23
21	ZZZZZ	ZZZZZ	02/24/10	1627	1.92		5.23
22	AR166006	WAR100222-60	02/24/10	1640	1.92		5.23
23	PIBLK07	WAR100219-99	02/24/10	1651	1.92		5.23
24							
25							
26							
27							
28							
29							
30							
31							
32							

S1 = 4cmx
 DCB = Decachlorobiphenyl

QC LIMITS
 (+/- 0.03 MINUTES)
 (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
 * Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.93			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/24/10	0622	2.29	5.93
02	AR166001	WAR100222-60	02/24/10	0632	2.29	5.93
03	AR125401	WAR100219-54	02/24/10	0643		
04	AR124201	WAR100219-42	02/24/10	0653		
05	AR124801	WAR100223-48	02/24/10	0704		
06	AR123201	WAR100104-32	02/24/10	0714		
07	AR122101	WAR100104-21	02/24/10	0725		
08	AR126201	WAR100104-62	02/24/10	0735		
09	AR126801	WAR100107-68	02/24/10	0746		
10	DDTANALOGSTD	WAR091219-DD	02/24/10	0757		
11	PIBLK02	WAR100219-99	02/24/10	0807	2.29	5.94
12	ZZZZZ	ZZZZZ	02/24/10	0818	2.29	5.94
13	ZZZZZ	ZZZZZ	02/24/10	0828	2.29	5.94
14	ZZZZZ	ZZZZZ	02/24/10	0839	2.29	5.94
15	ZZZZZ	ZZZZZ	02/24/10	0849	2.29	5.94
16	ZZZZZ	ZZZZZ	02/24/10	0902	2.29	5.93
17	ZZZZZ	ZZZZZ	02/24/10	0914	2.29	5.93
18	ZZZZZ	ZZZZZ	02/24/10	0927	2.29	5.93
19	AR166002	WAR100222-60	02/24/10	0941	2.29	5.94
20	PIBLK03	WAR100219-99	02/24/10	0951	2.29	5.94
21	ZZZZZ	ZZZZZ	02/24/10	1002	2.29	5.94
22	ZZZZZ	ZZZZZ	02/24/10	1012	2.29	5.94
23	ZZZZZ	ZZZZZ	02/24/10	1023	2.29	5.93
24	ZZZZZ	ZZZZZ	02/24/10	1033	2.29	5.94
25	AR166003	WAR100222-60	02/24/10	1051	2.29	5.94
26	PIBLK04	WAR100219-99	02/24/10	1101	2.29	5.94
27	PBLK01	1202050442	02/24/10	1112	2.29	5.93
28	PBLK01LCS	1202050443	02/24/10	1122	2.29	5.93
29	ZZZZZ	ZZZZZ	02/24/10	1133	2.29	5.94
30	ZZZZZ	ZZZZZ	02/24/10	1146	2.29	5.93
31	ZZZZZ	ZZZZZ	02/24/10	1158	2.29	5.93
32	ZZZZZ	ZZZZZ	02/24/10	1211	2.29	5.93

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1864

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29			DCB: 5.93		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	02/24/10	1223	2.29	5.93
02	ZZZZZ	02/24/10	1236	2.29	5.93
03	ZZZZZ	02/24/10	1249	2.29	5.94
04	ZZZZZ	02/24/10	1301	2.29	5.94
05	AR166004	WAR100222-60	1314	2.29	5.93
06	PIBLK05	WAR100219-99	1324	2.29	5.94
07	ZZZZZ	02/24/10	1335	2.29	5.93
08	RE15-10-8186	247193002	1348	2.29	5.94
09	RE15-10-8187	247193006	1400	2.29	5.93
10	RE15-10-8190	247193008	1413	2.29	5.93
11	RE15-10-8226	247193013	1425	2.29	5.93
12	RE15-10-8211	247193014	1438	2.29	5.93
13	AR166005	WAR100222-60	1451	2.29	5.93
14	PIBLK06	WAR100219-99	1501	2.29	5.94
15	ZZZZZ	02/24/10	1512	2.29	5.93
16	ZZZZZ	02/24/10	1524	2.29	5.93
17	ZZZZZ	02/24/10	1537	2.29	5.93
18	ZZZZZ	02/24/10	1550	2.29	5.93
19	ZZZZZ	02/24/10	1602	2.29	5.93
20	ZZZZZ	02/24/10	1615	2.29	5.93
21	ZZZZZ	02/24/10	1627	2.29	5.93
22	AR166006	WAR100222-60	1640	2.29	5.93
23	PIBLK07	WAR100219-99	1651	2.29	5.94
24					
25					
26					
27					
28					
29					
30					
31					
32					

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

Page 1 of 1

SDG Number: 10-1864
 Lab Sample ID: 1202050443

Client ID: LCS for batch 956219

Data File: 028f2801.d
 Inst: ECD1A.I_1
 Column: CLP1
 Analyzed: 24-FEB-10 11:22

Data File: 028b2801.d
 Inst: ECD1A.I_2
 Column: CLP2
 Analyzed: 24-FEB-10 11:22

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							5.17
Column 1	1	2.38	2.35 – 2.41	20.3		ug/kg	
	2	2.66	2.63 – 2.69	21.2		ug/kg	
	3	2.74	2.71 – 2.77	21.3		ug/kg	
	4	2.78	2.75 – 2.81	21.3		ug/kg	
	5	2.99	2.96 – 3.02	22.1		ug/kg	
					21.2		
Column 2	1	3.18	3.15 – 3.21	20.6		ug/kg	
	2	3.27	3.24 – 3.3	20.7		ug/kg	
	3	3.33	3.3 – 3.36	19.3		ug/kg	
	4	3.56	3.53 – 3.59	20.3		ug/kg	
	5	3.63	3.6 – 3.66	19.9		ug/kg	
					20.2		
Aroclor-1260							12.2
Column 1	1	3.72	3.69 – 3.75	26.3		ug/kg	
	2	3.88	3.85 – 3.91	28.3		ug/kg	
	3	4.04	4.01 – 4.07	22.3		ug/kg	
	4	4.11	4.08 – 4.14	29.4		ug/kg	
	5	4.25	4.22 – 4.28	28.5		ug/kg	
					27		
Column 2	1	4.32	4.29 – 4.35	22		ug/kg	
	2	4.45	4.42 – 4.48	23.6		ug/kg	
	3	4.71	4.68 – 4.74	24.1		ug/kg	
	4	4.89	4.86 – 4.92	24.4		ug/kg	
	5	5.04	5.01 – 5.07	25.3		ug/kg	
					23.9		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1864

Lab Sample ID: 1202050442

Client Sample: QC for batch 956219

Client ID: MB for batch 956219

Batch ID: 956221

Run Date: 02/24/2010 11:12

Prep Date: 02/23/2010 11:04

Data File: 027f2701-1.d

027b2701-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdla.i/022410.b/027f2701-1.d
 Lab Smp Id: 1202050442 Client Smp ID: PBLK01
 Inj Date : 24-FEB-2010 11:12
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |1202050442|1|
 Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m
 Meth Date : 24-Feb-2010 13:47 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 27 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1864.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1pl

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

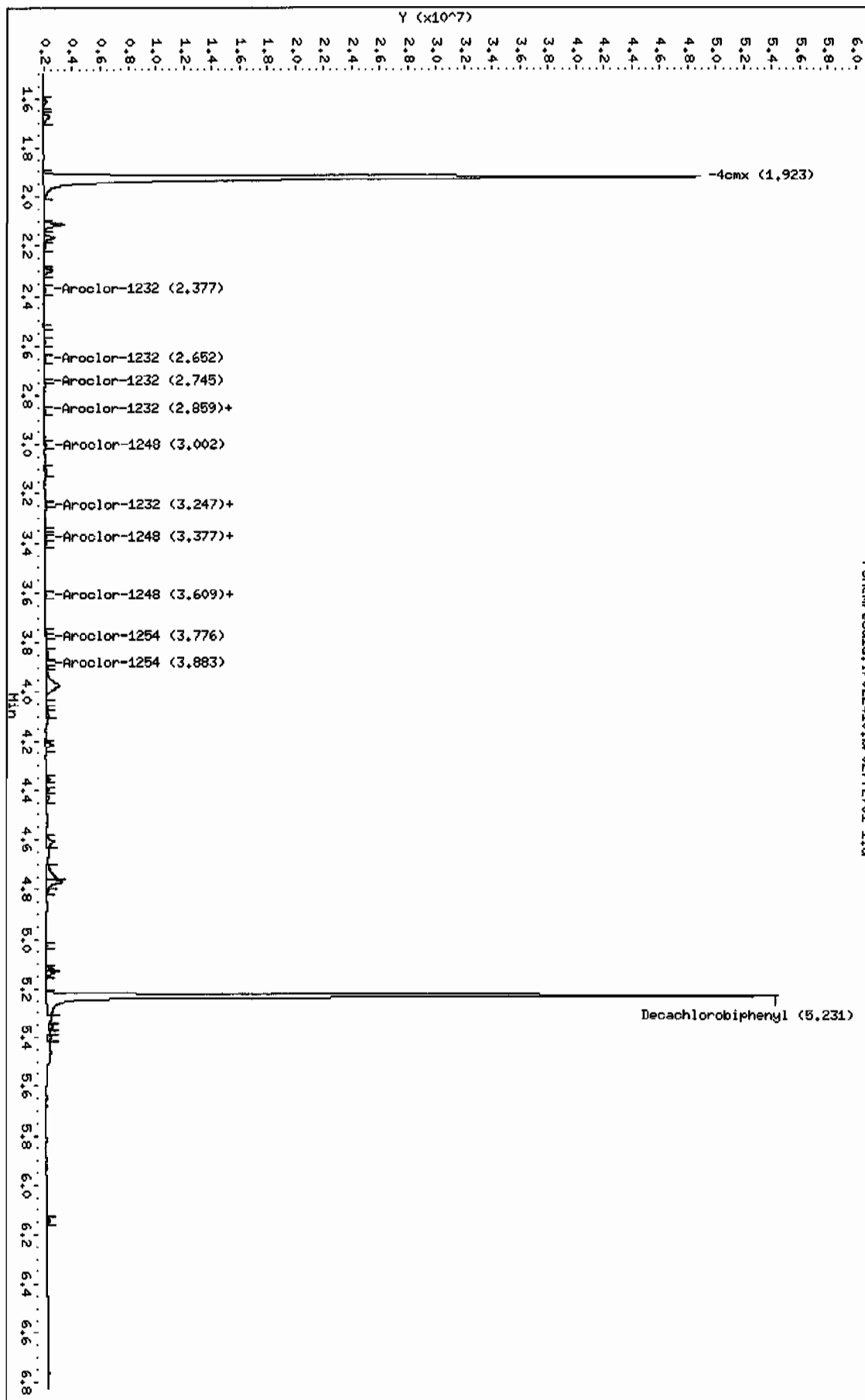
			CONCENTRATIONS				
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.923	1.922	0.001	50496677	117.260	3.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.231	5.231	0.000	43685350	142.164	4.7	80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/022410.b/027f2701-1.d
Date : 24-FEB-2010 11:12
Client ID: PRLK01
Sample Info: 1120205044211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YS1
Column diameter: 0.25

/chem/ecdl1a.i/022410.b/027f2701-1.d



Data File: /chem/ecdl1a.i/022410.b/027b2701-1.d
Report Date: 24-Feb-2010 14:16

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/022410.b/027b2701-1.d
Lab Smp Id: 1202050442 Client Smp ID: PBLK01
Inj Date : 24-FEB-2010 11:12
Operator : YSl Inst ID: ecd1a.i
Smp Info : |1202050442|1|
Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m
Meth Date : 24-Feb-2010 13:47 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 27 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1864.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

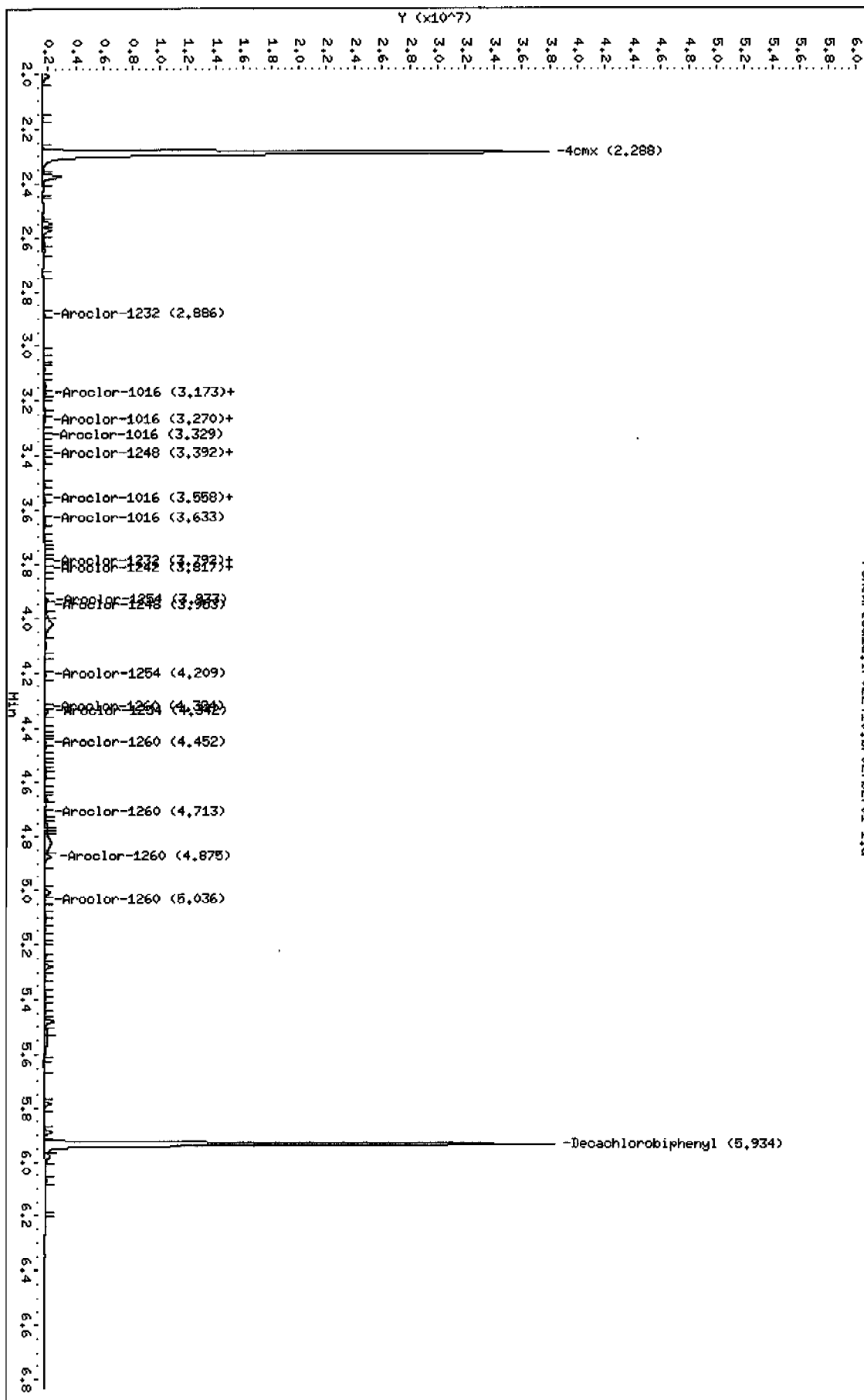
CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
2.288	2.288	0.000	32043981 107.748	3.6	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.934	5.935	-0.001	27842346 131.643	4.4	80.00- 120.00	100.00

Data File: /chem/ecdd1a.i/022410.b/027b2701-1.d
 Date : 24-FEB-2010 11:12
 Client ID: PRLK01
 Sample Info: 11202050442111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdd1a.i
 Operator: VSL
 Column diameter: 0.25

/chem/ecdd1a.i/022410.b/027b2701-1.d



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1864

Matrix: SOIL

Lab Sample ID: 1202050443

Client Sample: QC for batch 956219

Client: LANL010

Project: QC

Client ID: LCS for batch 956219

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 956221

Inst: ECD1A.I

Dilution: 1

Run Date: 02/24/2010 11:22

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/23/2010 11:04

Aliquot: 30 g

Final Volume: 1 mL

Data File: 028f2801-1.d

Column: 1 CLP1

Level: LOW

028b2801-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		21.2	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		27.0	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/022410.b/028f2801-1.d
Lab Smp Id: 1202050443 Client Smp ID: PBLK01LCS
Inj Date : 24-FEB-2010 11:22
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202050443|1|
Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdla.i/022410.b/ECD1-F-8082-022210.m
Meth Date : 24-Feb-2010 13:47 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 28 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1864.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

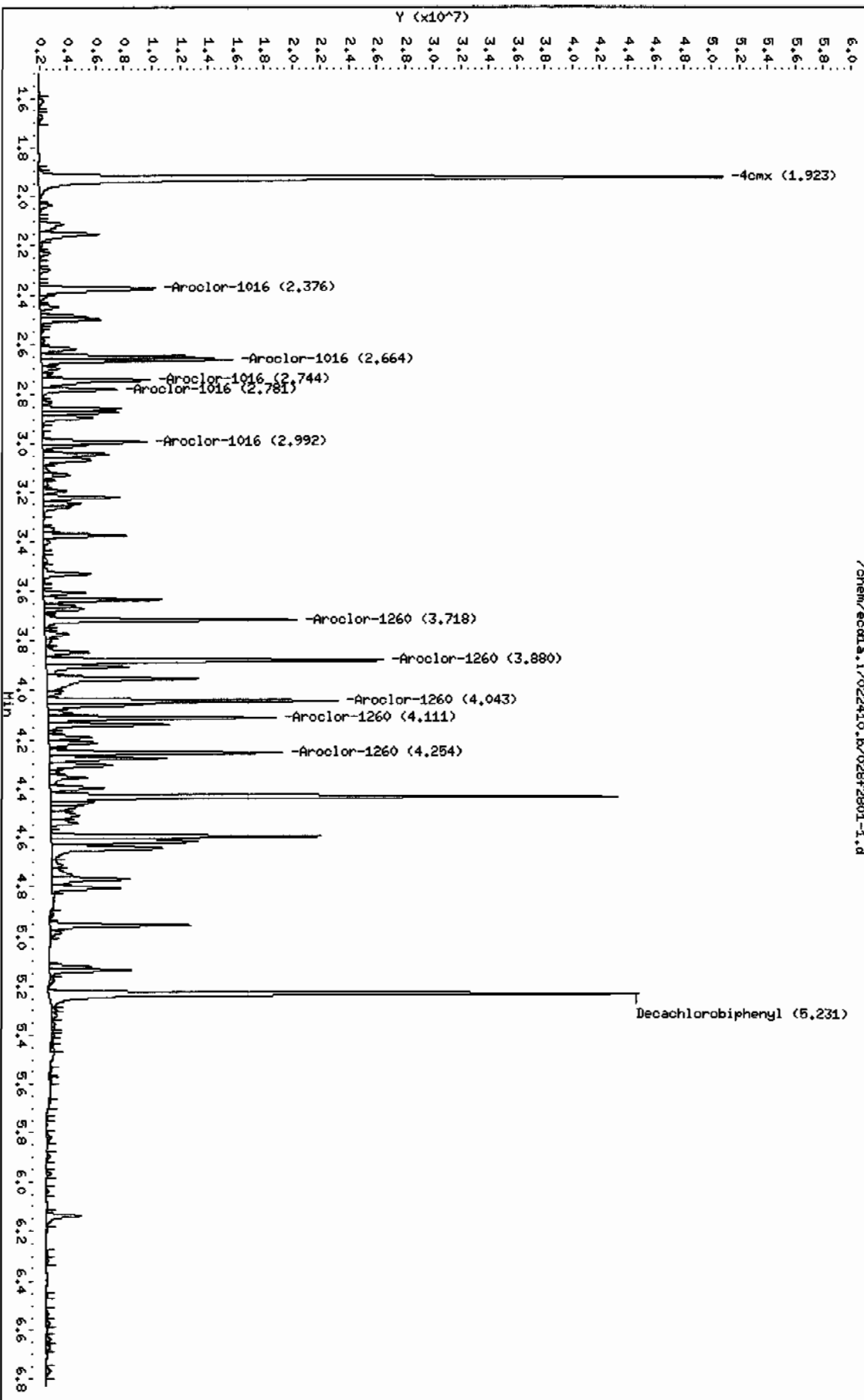
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
1.923	1.922	0.001	53271792	123.705	4.1 80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.231	5.231	0.000	36099700	117.478	3.9 80.00- 120.00	100.00	
1 Aroclor-1016					CAS #: 12674-11-2		
2.376	2.376	0.000	9362047	608.544	20.3 80.00- 120.00	100.00	
2.664	2.663	0.001	11574918	634.694	21.2 105.49- 145.49	123.64	
2.744	2.744	0.000	7717121	639.603	21.3 60.59- 100.59	82.43	
2.781	2.781	0.000	4526570	637.895	21.3 28.37- 68.37	48.35	

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
2.992	2.991	0.001	5910806	663.227	22.1	41.07-	81.07	63.14
Average of Peak Concentrations =					21.2			

7 Aroclor-1260					CAS #: 11096-82-5			
3.718	3.718	0.000	13482709	789.736	26.3	80.00-	120.00	100.00
3.880	3.881	-0.001	20064044	848.609	28.3	124.61-	164.61	148.81
4.043	4.043	0.000	16675975	667.805	22.3	134.47-	174.47	123.68
4.111	4.111	0.000	12721318	883.077	29.4	68.03-	108.03	94.35
4.254	4.253	0.001	12355831	856.229	28.5	70.40-	110.40	91.64
Average of Peak Concentrations =					27.0			

Data File: /chem/eod1a.i/022410.b/028f2801-1.d
Date: 24-FEB-2010 11:22
Client ID: PBLKOLCS
Sample Info: 1120205044311
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YSI
Column diameter: 0.25



Data File: /chem/ecdl1.i/022410.b/028b2801-1.d
Report Date: 24-Feb-2010 14:16

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/022410.b/028b2801-1.d

Lab Smp Id: 1202050443

Client Smp ID: PBLK01LCS

Inj Date : 24-FEB-2010 11:22

Operator : YS1

Inst ID: ecd1.i

Smp Info : |1202050443|1|

Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|LCS|||

Comment :

Method : /chem/ecdl1.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 24-Feb-2010 13:47 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 28

QC Sample: LCS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1864.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			
2.289	2.288	0.001	34468246	115.900	3.9 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.934	5.935	-0.001	29012683	137.177	4.6 80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2			
3.184	3.184	0.000	7912049	618.623	20.6 80.00- 120.00	100.00 (M)
3.267	3.266	0.001	5531120	620.225	20.7 46.02- 86.02	69.91
3.330	3.330	0.000	3129923	578.971	19.3 20.88- 60.88	39.56
3.558	3.557	0.001	4207222	608.364	20.3 31.07- 71.07	53.17

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.634	3.632	0.002	3838657	597.437	19.9	27.28-	67.28	48.52	
Average of Peak Concentrations =					20.2				

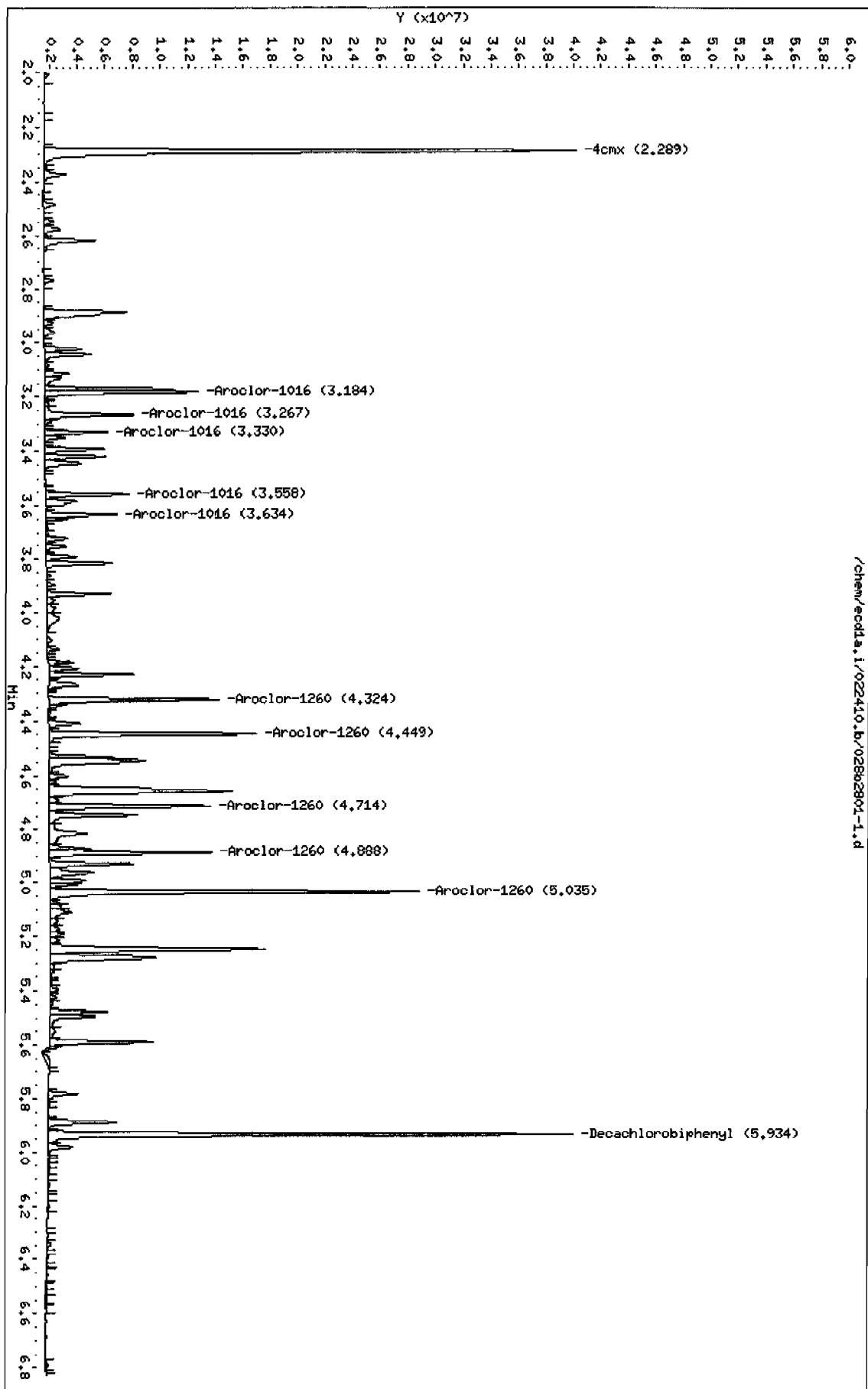
7 Aroclor-1260					CAS #: 11096-82-5				
4.324	4.324	0.000	8714286	659.891	22.0	80.00-	120.00	100.00	
4.449	4.449	0.000	11015699	707.640	23.6	102.78-	142.78	126.41	
4.714	4.715	-0.001	8547738	721.724	24.0	70.72-	110.72	98.09	
4.888	4.888	0.000	8929441	731.850	24.4	73.66-	113.66	102.47	
5.035	5.036	-0.001	20105708	757.929	25.3	191.30-	231.30	230.72	
Average of Peak Concentrations =					23.9				

QC Flag Legend

M - Compound response manually integrated.

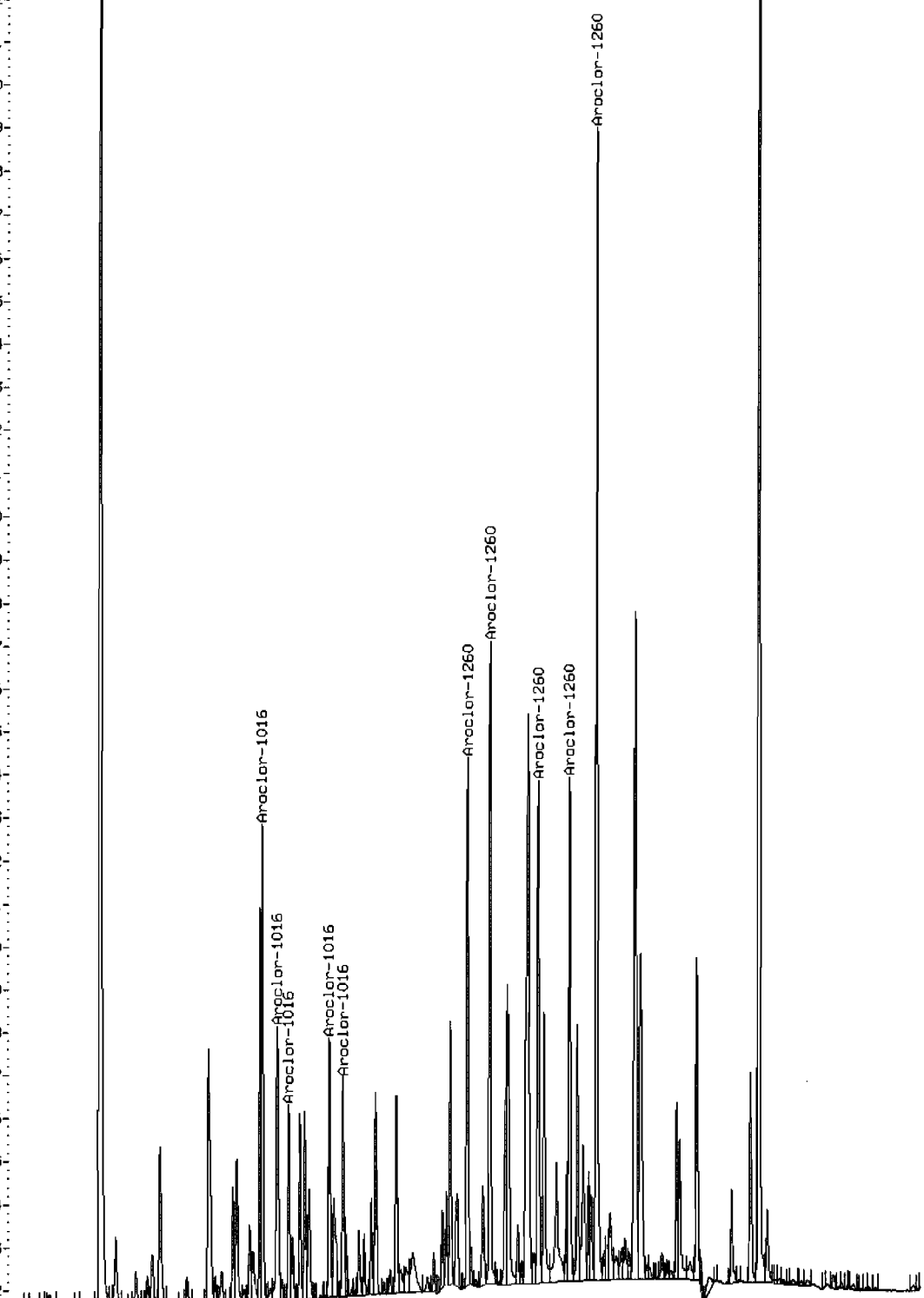
Data File: /chem/ecdl1a.i/022410.b/02862801-1.d
Date : 24-FEB-2010 11:22
Client ID: PBLK01LCS
Sample Info: 1120205044311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: VSL
Column diameter: 0.25



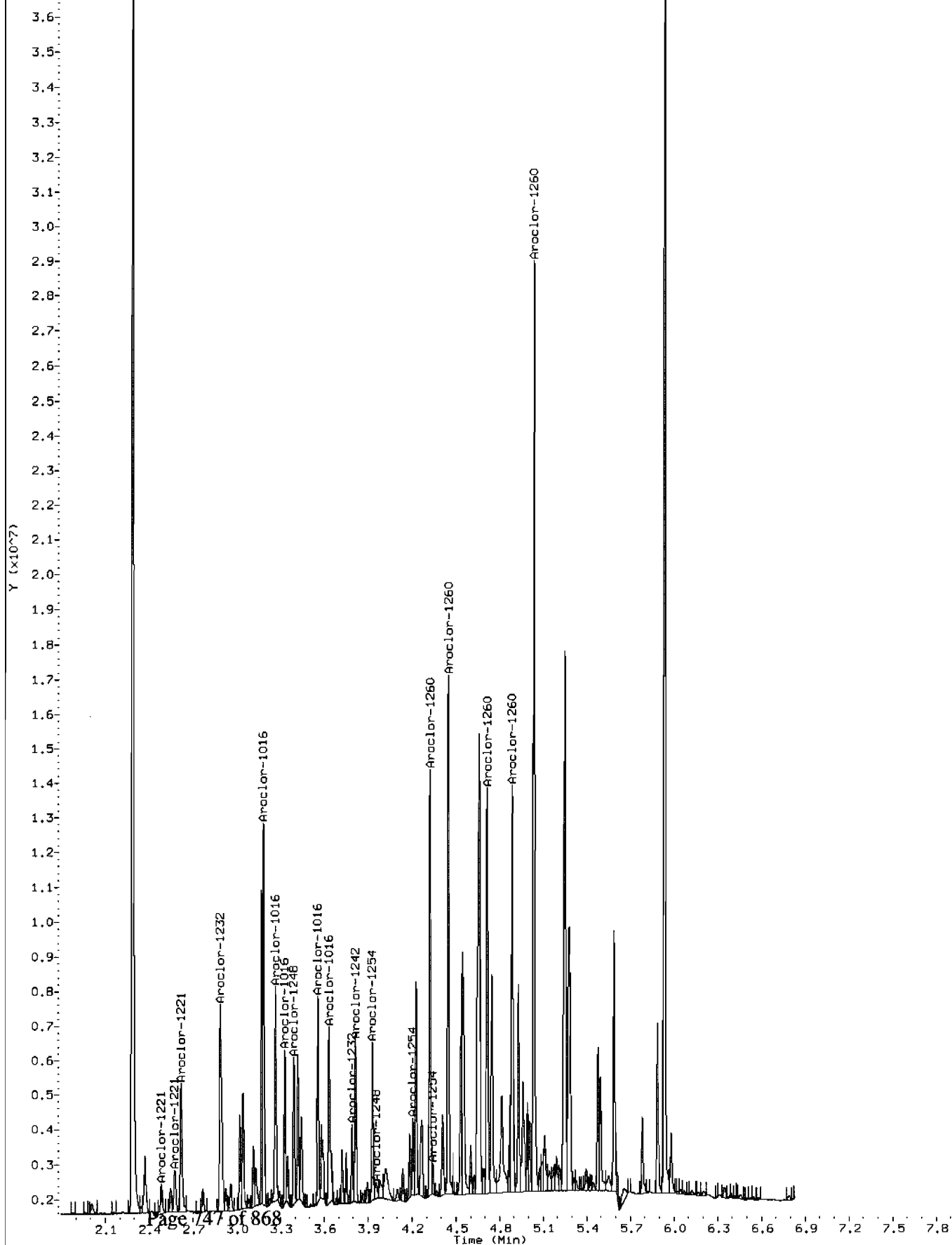
Comment: Manually Integrated
Data File: /chem/ecdl1.i/022410.b/028b2801-1.
Operator: YS1
Injection Date: 24-FEB-2010 11:22
Instrument: ecdl1.i
Client Sample ID: PBLK01LCS

Y (x10⁻⁷)



Time (Min)

Comment: Before manual integration
Data File: /chem/ecdl1.i/022410.b/orig-028b2801-1.d
Operator: YS1
Injection Date: 24-FEB-2010 11:22
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/23/2010 METHOD: ECD1-F-8082-022210.m OPERATOR:YS1 REVIEWED BY: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 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/ecd1a.i/022210.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WARI00219-99 01	YS1	122-FEB-2010 05:59		1022210	1.00	CLEAN	
002f0201.d	WARI00203-60 01	YS1	122-FEB-2010 06:10		1022210	1.00	DOSE RE-ICAL	
003f0301.d	ARI1660-4	YS1	122-FEB-2010 06:20		1022210	1.00	DOSE SCREEN	
004f0401.d	WARI091219-DDT	YS1	122-FEB-2010 06:31		1022210	1.00	DDT ANALOG STANDARD	
005f0501.d	WARI00104-32	YS1	122-FEB-2010 06:41		1022210	1.00	PATTERN ONLY	
006f0601.d	WARI00104-21	YS1	122-FEB-2010 06:52		1022210	1.00	PATTERN ONLY	
007f0701.d	WARI00104-62	YS1	122-FEB-2010 07:03		1022210	1.00	PATTERN ONLY	
008f0801.d	WARI00222-01 60	YS1	122-FEB-2010 07:13		1022210	1.00	ARI1660 I-CAL LEVEL 1	
009f0901.d	WARI00222-02 60	YS1	122-FEB-2010 07:24		1022210	1.00	ARI1660 I-CAL LEVEL 2	
010f1001.d	WARI00222-03 60	YS1	122-FEB-2010 07:34		1022210	1.00	ARI1660 I-CAL LEVEL 3	
011f1101.d	WARI00222-04 60	YS1	122-FEB-2010 07:45		1022210	1.00	ARI1660 I-CAL LEVEL 4	
012f1201.d	ARI00104-01	YS1	122-FEB-2010 07:55		1022210	1.00	ARI1660 I-CAL LEVEL 5	
013f1301.d	WARI00203-60 01	YS1	122-FEB-2010 08:06		1022210	1.00	PASSED ON BOTH COLUMNS	
014f1401.d	WARI00222-05 54	YS1	122-FEB-2010 08:16		1022210	1.00	ARI1254 I-CAL LEVEL 1	
015f1501.d	WARI00222-06 54	YS1	122-FEB-2010 08:27		1022210	1.00	ARI1254 I-CAL LEVEL 2	

Instrument Batch: /chem/ecd1a.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR100222-07 54	YS1	22-FEB-2010 08:37		022210		1.0		ARI254 I-CAL LEVEL 3
017f1701.d	WAR100222-08 54	YS1	22-FEB-2010 08:48		022210		1.0		ARI254 I-CAL LEVEL 4
018f1801.d	WAR100219-02	YS1	22-FEB-2010 08:59		022210		1.0		ARI254 I-CAL LEVEL 5
019f1901.d	WAR100219-54	YS1	22-FEB-2010 09:09		022210		1.0		PASSED ON BOTH COLUMNS
020f2001.d	WAR100222-09 42	YS1	22-FEB-2010 09:20		022210		1.0		ARI242 I-CAL LEVEL 1
021f2101.d	WAR100222-10 42	YS1	22-FEB-2010 09:30		022210		1.0		ARI242 I-CAL LEVEL 2
022f2201.d	WAR100222-11 42	YS1	22-FEB-2010 09:41		022210		1.0		ARI242 I-CAL LEVEL 3
023f2301.d	WAR100222-12 42	YS1	22-FEB-2010 09:51		022210		1.0		ARI242 I-CAL LEVEL 4
024f2401.d	WAR100219-01	YS1	22-FEB-2010 10:02		022210		1.0		ARI242 I-CAL LEVEL 5
025f2501.d	WAR100219-42	YS1	22-FEB-2010 10:12		022210		1.0		PASSED ON BOTH COLUMNS
026f2601.d	WAR100222-13 48	YS1	22-FEB-2010 10:23		022210		1.0		ARI248 I-CAL LEVEL 1
027f2701.d	WAR100222-14 48	YS1	22-FEB-2010 10:33		022210		1.0		ARI248 I-CAL LEVEL 2
028f2801.d	WAR100222-15 48	YS1	22-FEB-2010 10:44		022210		1.0		ARI248 I-CAL LEVEL 3
029f2901.d	WAR100211-01	YS1	22-FEB-2010 10:54		022210		1.0		ARI248 I-CAL LEVEL 5
030f3001.d	WAR100222-16	YS1	22-FEB-2010 11:05		022210		1.0		ARI248 I-CAL LEVEL 4
031f3101.d	WAR091217-48	YS1	22-FEB-2010 11:16		022210		1.0		PASSED ON BOTH COLUMNS
032f3201.d	WAR100222-17 68	YS1	22-FEB-2010 11:26		022210		1.0		ARI268 I-CAL LEVEL 1
033f3301.d	WAR100222-18 68	YS1	22-FEB-2010 11:37		022210		1.0		ARI268 I-CAL LEVEL 2
034f3401.d	WAR100222-19 68	YS1	22-FEB-2010 11:47		022210		1.0		ARI268 I-CAL LEVEL 3
035f3501.d	WAR100222-20 68	YS1	22-FEB-2010 11:58		022210		1.0		ARI268 I-CAL LEVEL 4

Instrument Batch: /chem/ecd1a.i/022210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date Time	Batch	SDG	Dilution	Client		Comments
036f3601.d	ARI00104-05	YS1	22-FEB-2010 12:08		022210		1.0		ARI268 I-CAL LEVEL 5
037f3701.d	WAR100107-68	YS1	22-FEB-2010 12:19		022210		1.0		PASSED ON BOTH COLUMNS
038f3801.d	WAR100219-99 02	YS1	22-FEB-2010 12:29		022210		1.0		CLEAN
039f3901-1.d	1202046866	YS1	22-FEB-2010 12:40	954781	10-1846		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
039f3901-2.d	1202046866	YS1	22-FEB-2010 12:40	954781	10-1848		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER

1039f3901.d	1202046866	YS1	122-FEB-2010 12:40	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001-1.d	1202046867	YS1	122-FEB-2010 12:50	954781	10-1846	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001-2.d	1202046867	YS1	122-FEB-2010 12:50	954781	10-1848	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	1202046867	YS1	122-FEB-2010 12:50	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1041f4101.d	1246968001	YS1	122-FEB-2010 13:01	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	1246968002	YS1	122-FEB-2010 13:14	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1043f4301.d	1246968003	YS1	122-FEB-2010 13:26	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1044f4401.d	1246968004	YS1	122-FEB-2010 13:39	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1045f4501.d	1246968005	YS1	122-FEB-2010 13:51	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1046f4601.d	1246968006	YS1	122-FEB-2010 14:04	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1047f4701.d	1246968007	YS1	122-FEB-2010 14:17	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1048f4801.d	1246968008	YS1	122-FEB-2010 14:30	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1049f4901.d	1049f4901.d	YS1	122-FEB-2010 14:42		1022210	1.0	PASSED ON BOTH COLUMNS
1050f5001.d	1050f5001.d	YS1	122-FEB-2010 14:53		1022210	1.0	CLEAN
1051f5101.d	1246968009	YS1	122-FEB-2010 15:03	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1052f5201.d	1246968010	YS1	122-FEB-2010 15:16	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1053f5301.d	1246968011	YS1	122-FEB-2010 15:28	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1054f5401.d	1246968012	YS1	122-FEB-2010 15:41	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1055f5501.d	1246968013	YS1	122-FEB-2010 15:54	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1056f5601.d	1246968014	YS1	122-FEB-2010 16:06	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1057f5701.d	1246968015	YS1	122-FEB-2010 16:19	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1058f5801.d	1246968016	YS1	122-FEB-2010 16:32	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1059f5901.d	1246968017	YS1	122-FEB-2010 16:44	954781	10-1808	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1060f6001.d	1247121002	YS1	122-FEB-2010 16:57	954781	10-1846	1.0 LANL	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

061f6101.d	WAR100203-60 03	YS1	122-FEB-2010 17:10		022210	1.0	PASSED ON BOTH COLUMNS
062f6201.d	WAR100219-99 04	YS1	122-FEB-2010 17:22		022210	1.0	CLEAN
063f6301.d	247123001	YS1	122-FEB-2010 17:35	954781	10-1848	1.0	LANL UPLOADED BOTH COLUMNS, USE HIGHER
064f6401.d	1202046868	YS1	122-FEB-2010 17:48	954781	10-1848	1.0	QC A UPLOADED BOTH COLUMNS, USE HIGHER
065f6501.d	1202046869	YS1	122-FEB-2010 18:00	954781	10-1848	1.0	QC A UPLOADED BOTH COLUMNS, USE HIGHER
066f6601.d	WAR100203-60 04	YS1	122-FEB-2010 18:13		022210	1.0	PASSED ON BOTH COLUMNS
067f6701.d	WAR100219-99 05	YS1	122-FEB-2010 18:26		022210	1.0	CLEAN
068f6801.d	1202048527	YS1	122-FEB-2010 18:38	955479	10-1818	1.0	QC A UPLOADED BOTH COLUMNS, USE HIGHER
069f6901.d	1202048528	YS1	122-FEB-2010 18:51	955479	10-1818	1.0	QC A UPLOADED BOTH COLUMNS, USE HIGHER
070f7001.d	247043003	YS1	122-FEB-2010 19:04	955479	10-1818	1.0	LANL UPLOADED BOTH COLUMNS, USE HIGHER
071f7101.d	1202048529	YS1	122-FEB-2010 19:16	955479	10-1818	1.0	QC A UPLOADED BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
072f7201.d	1202048530	YS1	122-FEB-2010 19:29	955479	10-1818	1.0	QC A	UPLOADED BOTH COLUMNS, USE HIGHER
073f7301.d	247043004	YS1	122-FEB-2010 19:42	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
074f7401.d	247043005	YS1	122-FEB-2010 19:54	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
075f7501.d	247043006	YS1	122-FEB-2010 20:07	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
076f7601.d	247043007	YS1	122-FEB-2010 20:20	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
077f7701.d	247043008	YS1	122-FEB-2010 20:32	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
078f7801.d	WAR100203-60 05	YS1	122-FEB-2010 20:45		022210	1.0		PASSED ON BOTH COLUMNS
079f7901.d	WAR100219-99 06	YS1	122-FEB-2010 20:58		022210	1.0		CLEAN
080f8001.d	247043009	YS1	122-FEB-2010 21:10	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
081f8101.d	247043010	YS1	122-FEB-2010 21:23	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
082f8201.d	247043011	YS1	122-FEB-2010 21:35	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
083f8301.d	247043012	YS1	122-FEB-2010 21:48	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
084f8401.d	247043013	YS1	122-FEB-2010 22:01	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER
085f8501.d	247043014	YS1	122-FEB-2010 22:13	955479	10-1818	1.0	LANL	UPLOADED BOTH COLUMNS, USE HIGHER

1086f8601.d	1247043015	YS1	22-FEB-2010 22:26	955479	10-1818	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1087f8701.d	1247043016	YS1	22-FEB-2010 22:39	955479	10-1818	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1088f8801.d	1247043017	YS1	22-FEB-2010 22:51	955479	10-1818	1.0 LANL	SURROGATE LOW RE
1089f8901.d	1247043018	YS1	22-FEB-2010 23:04	955479	10-1818	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1090f9001.d	1WAR100203-60 06	YS1	22-FEB-2010 23:17		022210	1.0	PASSED ON BOTH COLUMNS
1091f9101.d	1WAR100219-99 07	YS1	22-FEB-2010 23:29		022210	1.0	CLEAN

Instrument Batch: /chem/ecd1a.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1092f9201.d	11660	YS1	22-FEB-2010 23:42		022210	1.0		DUSE SCREEN
1093f9301.d	11660-4	YS1	22-FEB-2010 23:55		022210	1.0		DUSE SCREEN

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/25/2010 METHOD: ECD1-F-8082-022210.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/ecdla.i/022410.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1WAR100219-99 01	YS1	24-FEB-2010 06:22	1	022310a	1.00	1	CLEAN
1002f0201.d	1WAR100222-60 01	YS1	24-FEB-2010 06:32	1	022310a	1.00	1	PASSED ON BOTH COLUMNS
1003f0301.d	1WAR100219-54	YS1	24-FEB-2010 06:43	1	022310a	1.00	1	PASSED ON BOTH COLUMNS
1004f0401.d	1WAR100219-42	YS1	24-FEB-2010 06:53	1	022410	1.00	1	PASSED ON BOTH COLUMNS
1005f0501.d	1WAR100223-48	YS1	24-FEB-2010 07:04	1	022410	1.00	1	PASSED ON BOTH COLUMNS
1006f0601.d	1WAR:00104-32	YS1	24-FEB-2010 07:14	1	022410	1.00	1	PATTERN ONLY
1007f0701.d	1WAR:00104-21	YS1	24-FEB-2010 07:25	1	022410	1.00	1	PATTERN ONLY
1008f0801.d	1WAR:00104-62	YS1	24-FEB-2010 07:35	1	022410	1.00	1	PATTERN ONLY
1009f0901.d	1WAR:00107-68	YS1	24-FEB-2010 07:46	1	022410	1.00	1	PATTERN ONLY
1010f1001.d	1WAR091219-DDT	YS1	24-FEB-2010 07:57	1	022410	1.00	1	DDT ANALOG STANDARD
1011f1101.d	1WAR100219-99 02	YS1	24-FEB-2010 08:07	1	022410	1.00	1	CLEAN
1012f1201.d	11202051267	YS1	24-FEB-2010 08:18	956669	1EUI-7517	1.00	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1013f1301.d	11202051268	YS1	24-FEB-2010 08:28	956669	1EUI-7517	1.00	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1014f1401.d	11202051271	YS1	24-FEB-2010 08:39	956669	1EUI-7517	1.00	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1015f1501.d	1247764001	YS1	24-FEB-2010 08:49	956669	1EUI-7517	10.00	CARE	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/022410.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1601.d	1202051269	YS1	24-FEB-2010 09:02	956669	EUI-7517	10.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1017f1701.d	1202051270	YS1	24-FEB-2010 09:14	956669	EUI-7517	10.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1018f1801.d	247764002	YS1	24-FEB-2010 09:27	956669	EUI-7517	10.0 CARE	UPLOAD BOTH COLUMNS, USE HIGHER
1019f1901.d	WAR100222-60 02	YS1	24-FEB-2010 09:41		022410	1.0	PASSED ON BOTH COLUMNS
1020f2001.d	WAR100219-99 03	YS1	24-FEB-2010 09:51		022410	1.0	CLEAN
1021f2101.d	1202051284	YS1	24-FEB-2010 10:02	956679	10-1818	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1022f2201.d	1202051285	YS1	24-FEB-2010 10:12	956679	10-1818	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1023f2301.d	1202051288	YS1	24-FEB-2010 10:23	956679	10-1818	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1024f2401.d	247043017	YS1	24-FEB-2010 10:33	956679	10-1818	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1025f2501.d	WAR100222-60 03	YS1	24-FEB-2010 10:51		022410	1.0	PASSED ON BOTH COLUMNS
1026f2601.d	WAR100219-99 04	YS1	24-FEB-2010 11:01		022410	1.0	CLEAN
1027f2701.d	1202050442	YS1	24-FEB-2010 11:12	956221	10-1834	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1028f2801.d	1202050443	YS1	24-FEB-2010 11:22	956221	10-1834	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1029f2901.d	247100001	YS1	24-FEB-2010 11:33	956221	10-1834	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1030f3001.d	247100002	YS1	24-FEB-2010 11:46	956221	10-1834	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1031f3101.d	247100003	YS1	24-FEB-2010 11:58	956221	10-1834	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1032f3201.d	247100004	YS1	24-FEB-2010 12:11	956221	10-1834	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1033f3301.d	247100005	YS1	24-FEB-2010 12:23	956221	10-1834	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1034f3401.d	247100006	YS1	24-FEB-2010 12:36	956221	10-1834	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1035f3501.d	247100007	YS1	24-FEB-2010 12:49	956221	10-1834	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/022410.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	247100008	YS1	24-FEB-2010 13:01	956221	10-1834	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1037f3701.d	WAR100222-60 04	YS1	24-FEB-2010 13:14		022410	1.0		PASSED ON BOTH COLUMNS
1038f3801.d	WAR100219-99 05	YS1	24-FEB-2010 13:24		022410	1.0		CLEAN
1039f3901.d	247100009	YS1	24-FEB-2010 13:35	956221	10-1834	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001.d	247193002	YS1	24-FEB-2010 13:48	956221	10-1864	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

1041f4101.d	247193006	YS1	24-FEB-2010 14:00	956221	10-1864	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1042f4201.d	247193008	YS1	24-FEB-2010 14:13	956221	10-1864	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1043f4301.d	247193013	YS1	24-FEB-2010 14:25	956221	10-1864	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1044f4401.d	247193014	YS1	24-FEB-2010 14:38	956221	10-1864	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1045f4501.d	WAR100222-60 05	YS1	24-FEB-2010 14:51		022410	1.0	PASSED ON BOTH COLUMNS		

1046f4601.d	WAR100219-99 06	YS1	24-FEB-2010 15:01		022410	1.0	CLEAN		

1047f4701.d	247245001	YS1	24-FEB-2010 15:12	956221	10-1876	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1048f4801.d	1202050444	YS1	24-FEB-2010 15:24	956221	10-1876	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER		

1049f4901.d	1202050445	YS1	24-FEB-2010 15:37	956221	10-1876	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER		

1050f5001.d	247245002	YS1	24-FEB-2010 15:50	956221	10-1876	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1051f5101.d	247245003	YS1	24-FEB-2010 16:02	956221	10-1876	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1052f5201.d	247245004	YS1	24-FEB-2010 16:15	956221	10-1876	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1053f5301.d	247245006	YS1	24-FEB-2010 16:27	956221	10-1876	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER		

1054f5401.d	WAR100222-60 06	YS1	24-FEB-2010 16:40		022410	1.0	PASSED ON BOTH COLUMNS		

1055f5501.d	WAR100219-99 07	YS1	24-FEB-2010 16:51		022410	1.0	CLEAN		

Instrument Batch: /chem/ecdl.a.i/022410.b							Page: 3		

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/048b4801.d
 Lab Smp Id: 1202050444 Client Smp ID: RE46-10-12664MS
 Inj Date : 24-FEB-2010 15:24
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202050444|5|
 Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m
 Meth Date : 25-Feb-2010 06:10 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 48 QC Sample: MS
 Dil Factor: 5.00000
 Integrator: Falcon Compound Sublist: 10-1876.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	9.98920	% 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			
2.288	2.288	0.000	5632607	18.9397	3.5	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.933	5.935	-0.002	4356886	20.6001	3.8	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.183	3.184	-0.001	1448032	113.218	21.0	80.00-	120.00	100.00 (M)
3.267	3.266	0.001	1094318	122.710	22.7	47.35-	87.35	75.57
3.330	3.330	0.000	649295	120.106	22.2	21.53-	61.53	44.84
3.557	3.557	0.000	836717	120.989	22.4	34.23-	74.23	57.78

CONCENTRATIONS								
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO	
			RESPONSE	(ug/L)	(ug/Kg)			
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
3.633	3.632	0.001	761062	118.449	21.9	30.04-	70.04	64.05
Average of Peak Concentrations =					22.0			

7 Aroclor-1260					CAS #: 11096-82-5			
4.323	4.324	-0.001	1718337	130.121	24.1	80.00-	120.00	100.00
4.448	4.449	-0.001	1860742	119.533	22.1	103.66-	143.66	108.29
4.714	4.715	-0.001	1349791	113.969	21.1	72.67-	112.67	78.55
4.888	4.888	0.000	1406894	115.308	21.4	75.80-	115.80	81.88
5.035	5.036	-0.001	3059361	115.329	21.4	193.65-	233.65	178.04
Average of Peak Concentrations =					22.0			

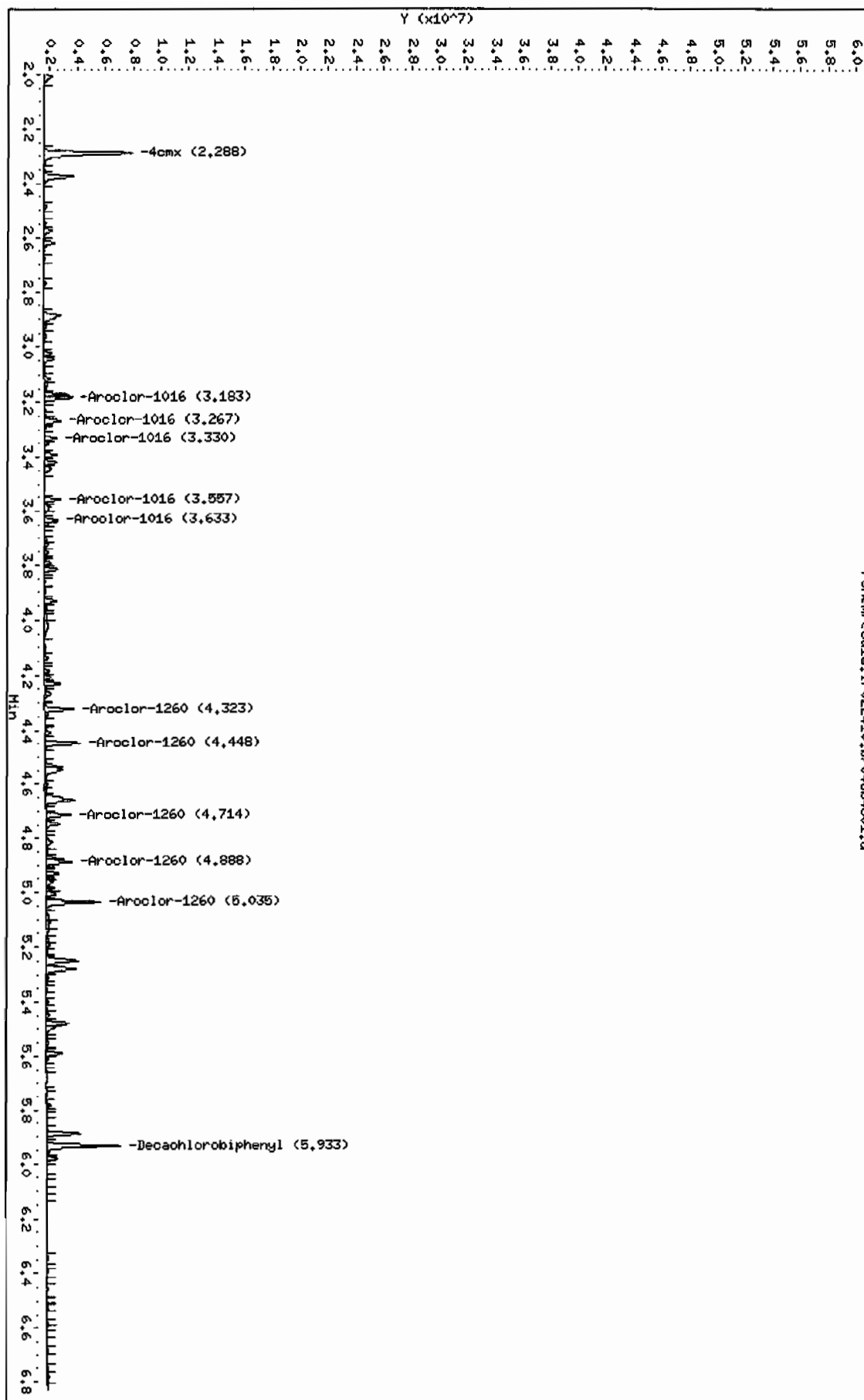
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.1/022410.b/048b4801.d
Date: 24-FEB-2010 15:24
Client ID: RE46-10-12664HS
Sample Info: 1202050444151
Volume Injected (µL): 1.0
Column phase: CLP2

Instrument: ecdl1.1
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.1/022410.b/048b4801.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/048f4801.d
 Lab Smp Id: 1202050444 Client Smp ID: RE46-10-12664MS
 Inj Date : 24-FEB-2010 15:24
 Operator : YSl Inst ID: ecd1a.i
 Smp Info : |1202050444|5|
 Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m
 Meth Date : 25-Feb-2010 06:11 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 48 QC Sample: MS
 Dil Factor: 5.00000
 Integrator: Falcon Compound Sublist: 10-1876.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	9.98920	% 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		
1.923	1.922	0.001	8067690 18.7343	3.5	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.229	5.231	-0.002	6839797 22.2585	4.1	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.376	2.376	0.000	1896021 123.244	22.8	80.00- 120.00	100.00
2.663	2.663	0.000	2075584 113.812	21.1	105.15- 145.15	109.47
2.743	2.744	-0.001	1505211 124.753	23.1	61.10- 101.10	79.39
2.781	2.781	0.000	849456 119.707	22.2	28.57- 68.57	44.80

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)									
2.991	2.991	0.000	1415754	158.856	29.4	41.99-	81.99	74.67	
Average of Peak Concentrations =					23.7				

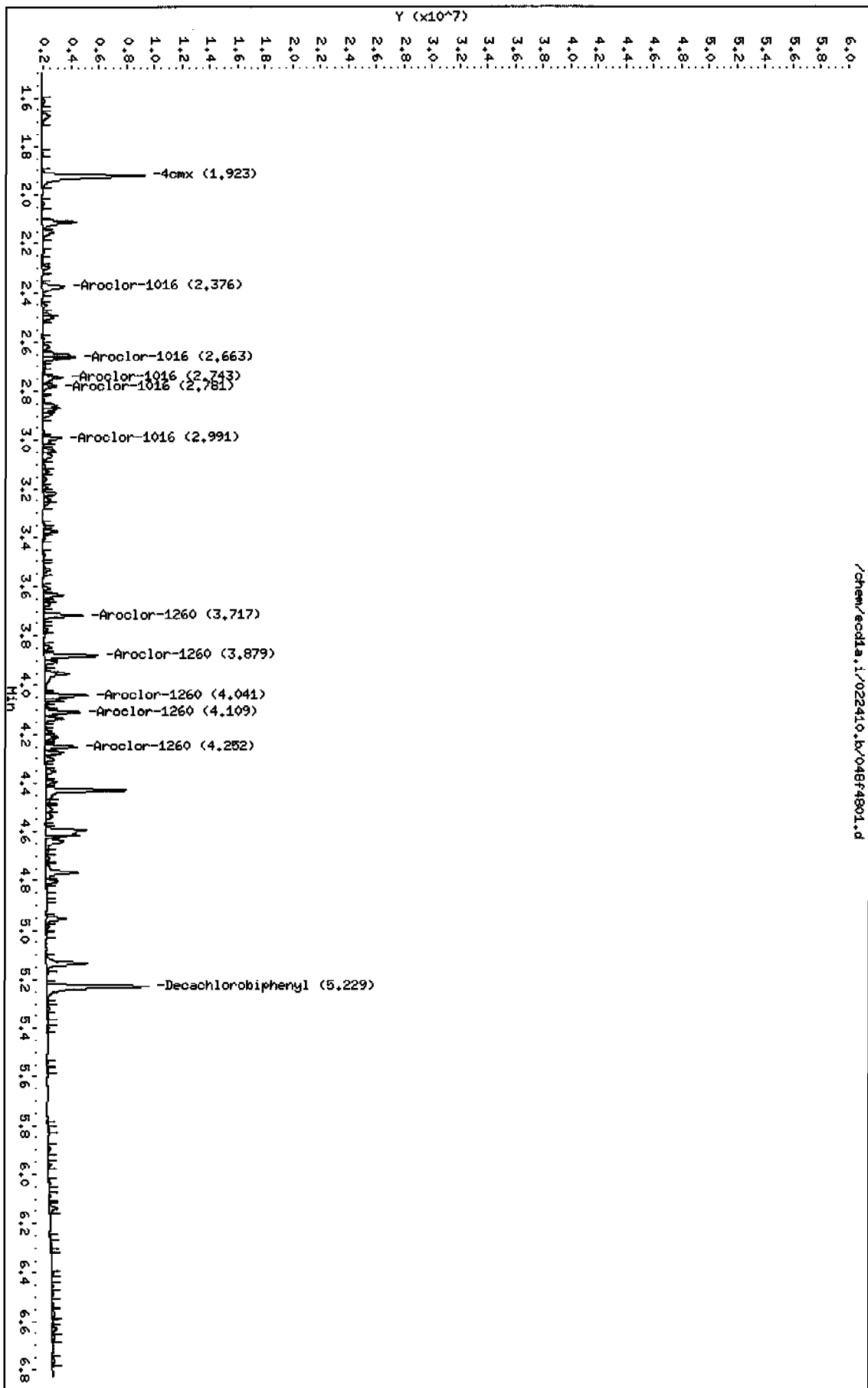
7 Aroclor-1260					CAS #: 11096-82-5				
3.717	3.718	-0.001	2146381	125.722	23.3	80.00-	120.00	100.00 (M)	
3.879	3.881	-0.002	3154171	133.406	24.7	125.37-	165.37	146.95	
4.041	4.043	-0.002	2471309	98.9658	18.3	131.41-	171.41	145.32	
4.109	4.111	-0.002	2015508	139.911	25.9	67.27-	107.27	93.90	
4.252	4.253	-0.001	1683172	116.640	21.6	69.28-	109.28	78.42	
Average of Peak Concentrations =					22.8				

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1a.i/022410.b/048f4801.d
Date : 24-FEB-2010 15:24
Client ID: RE46-10-12664MS
Sample Info: 11202050444151
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/022410.b/049b4901.d
Report Date: 25-Feb-2010 06:22

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/049b4901.d

Lab Smp Id: 1202050445

Client Smp ID: RE46-10-12664MSD

Inj Date : 24-FEB-2010 15:37

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202050445|5|

Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|MSD|

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-B-8082-022210.m

Meth Date : 25-Feb-2010 06:10 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 49

QC Sample: MSD

Dil Factor: 5.00000

Integrator: Falcon

Compound Sublist: 10-1876.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

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

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	9.98920	% 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			
2.288	2.288	0.000	6496202 21.8435	4.0	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.933	5.935	-0.002	4875453 23.0520	4.3	80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2			
3.183	3.184	-0.001	1669560 130.539	24.2	80.00- 120.00	100.00(M)
3.266	3.266	0.000	1216299 136.388	25.2	47.35- 87.35	72.85
3.329	3.330	-0.001	746512 138.089	25.6	21.53- 61.53	44.71
3.557	3.557	0.000	966557 139.764	25.9	34.23- 74.23	57.89

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO		
=====	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.632	3.632	0.000	930399	144.804	26.8	30.04-	70.04	67.71	
Average of Peak Concentrations =					25.5				

7 Aroclor-1260					CAS #: 11096-82-5				
4.323	4.324	-0.001	2127515	161.107	29.8	80.00-	120.00	100.00 (M)	
4.448	4.449	-0.001	2360359	151.628	28.1	103.66-	143.66	110.94	
4.713	4.715	-0.002	1634038	137.969	25.5	72.67-	112.67	76.80	
4.888	4.888	0.000	1518898	124.488	23.0	75.80-	115.80	71.39	
5.035	5.036	-0.001	3482639	131.286	24.3	193.65-	233.65	163.70	
Average of Peak Concentrations =					26.1				

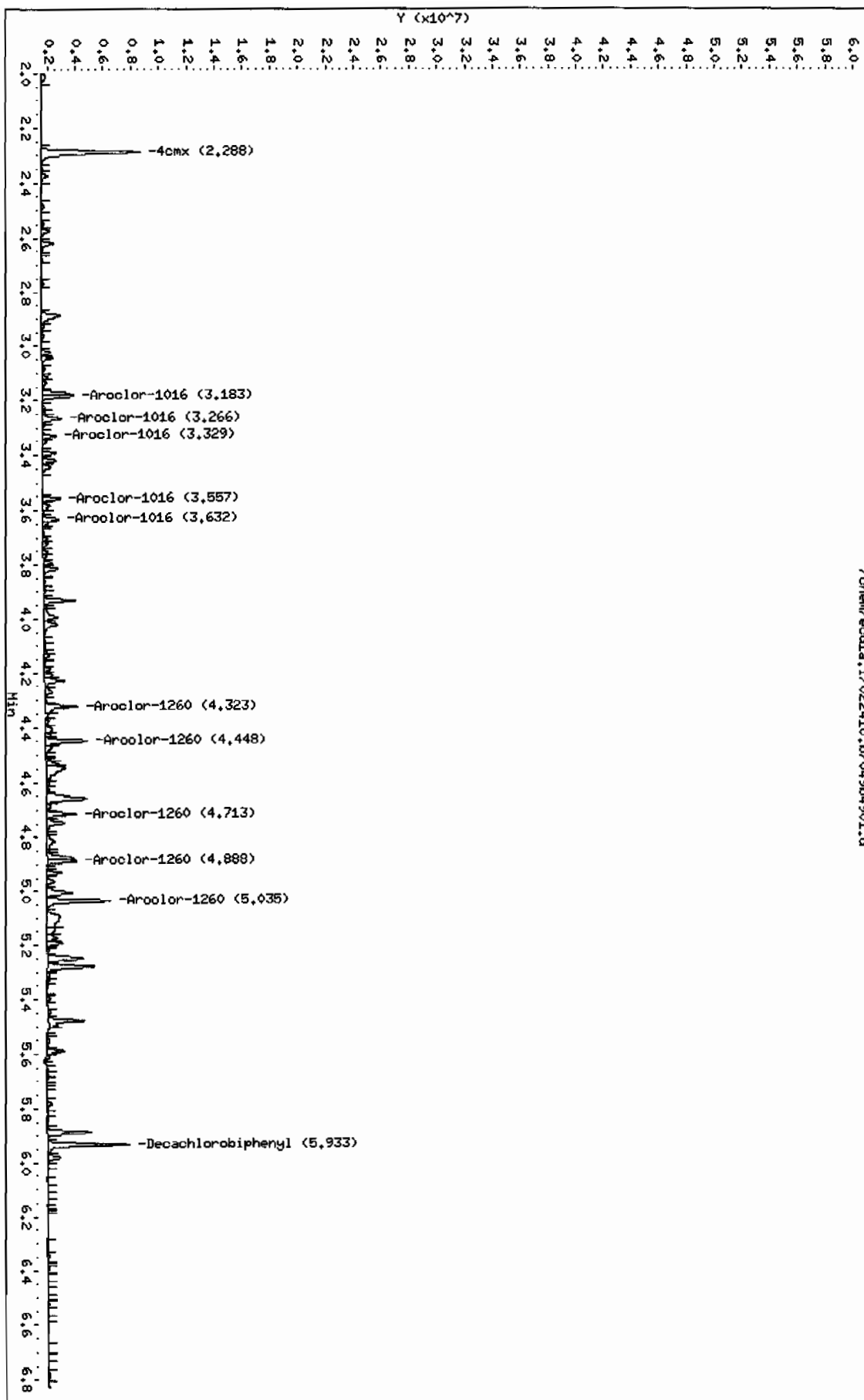
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eodla.i/022410.b/049b4901.d
Date : 24-FEB-2010 15:37
Client ID: RE46-10-12664MSD
Sample Info: 11202050445151
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eodla.1
Operator: YSL
Column diameter: 0.25

/chem/eodla.i/022410.b/049b4901.d



Data File: /chem/ecdl1a.i/022410.b/049f4901.d
 Report Date: 25-Feb-2010 06:24

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/022410.b/049f4901.d

Lab Smp Id: 1202050445

Client Smp ID: RE46-10-12664MSD

Inj Date : 24-FEB-2010 15:37

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |1202050445|5|

Misc Info : |ECD82P_1S|956221|SVA|QC A|SOIL|MSD|

Comment :

Method : /chem/ecdl1a.i/022410.b/ECD1-F-8082-022210.m

Meth Date : 25-Feb-2010 06:11 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 49

QC Sample: MSD

Dil Factor: 5.00000

Integrator: Falcon

Compound Sublist: 10-1876.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	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	9.98920	% 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			
1.923	1.922	0.001	9347270	21.7057	4.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.229	5.231	-0.002	7070180	23.0082	4.3	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.375	2.376	-0.001	2129246	138.403	25.6	80.00- 120.00	100.00 (M)	
2.663	2.663	0.000	2371436	130.034	24.1	105.15- 145.15	111.37	
2.743	2.744	-0.001	1790133	148.368	27.5	61.10- 101.10	84.07	
2.780	2.781	-0.001	999787	140.892	26.1	28.57- 68.57	46.95	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)									
2.991	2.991	0.000	1214019	136.220	25.2	41.99-	81.99	72.95	
Average of Peak Concentrations =					25.7				

7 Aroclor-1260					CAS #: 11096-82-5				
3.716	3.718	-0.002	2419751	141.735	26.2	80.00-	120.00	100.00 (M)	
3.878	3.881	-0.003	3951174	167.115	30.9	125.37-	165.37	163.29	
4.041	4.043	-0.002	2847569	114.034	21.1	131.41-	171.41	117.68	
4.109	4.111	-0.002	2396826	166.381	30.8	67.27-	107.27	99.05	
4.252	4.253	-0.001	2005009	138.942	25.7	69.28-	109.28	82.86	
Average of Peak Concentrations =					26.9				

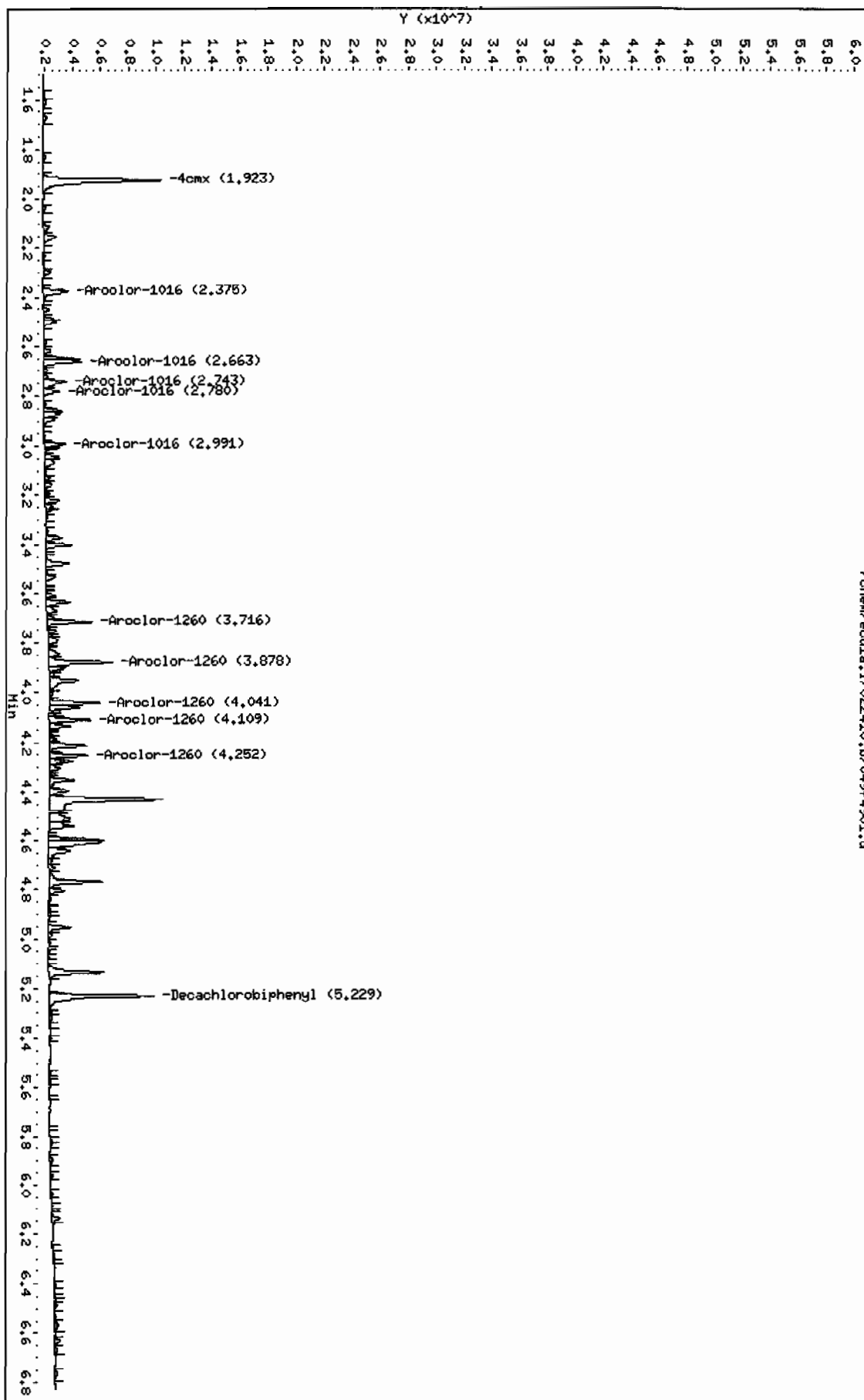
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.i/022410.b/049f4901.d
Date: 24-FEB-2010 15:37
Client ID: RE46-10-12664HSD
Sample Info: 1120205045151
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/022410.b/049f4901.d



Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 956219
 Analyst: Robin Hunt
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual
 Volatiles Manual Instrument

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)
1202050443 LCS	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100001	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100002	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100003	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100004	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100005	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100006	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100007	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100008	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247100009	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247193002	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247193006	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247193008	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247193013	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247193014	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247245001	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
1202050444 MS (247245001)	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
1202050445 MSD (247245001)	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247245002	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247245003	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247245004	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
247245006	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
1202050442 MB	23-FEB-2010 11:04:00	30	H2SO4/KMn	1	8	1	0.03333	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202050443	PCB Laboratory Control	WE100210-07	1	mL	Clean up Date: 02/23/2010		
MS	1202050444	PCB Laboratory Control	WE100210-07	1	mL	Clean up Initials: RWH		
MSD	1202050445	PCB Laboratory Control	WE100210-07	1	mL	Verified By: JAM		
SURR	ALL	PEST LOW LEVEL SURROGATE 200 UG/L	UE100203-15	1	mL	Final Solvent: Hexane		
REGNT	ALL	Acetone	100211-B1	150	mL	Clean Up SOP: GL-OA-E-037		
REGNT	ALL	1:1 sulfuric acid	1260695a	5	mL			
REGNT	ALL	Hexane	1273338-B2	150	mL			
REGNT	ALL	5% Potassium Permanganate	B1202457-F	5	mL			
SOURC	ALL	SODIUM SULFATE	1269268	30	g			

RADIOLOGICAL ANALYSIS

**Radiochemistry Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1864**

Method/Analysis Information

Procedure: **Dry Weight-Percent Moisture**

Analytical Method:

Analytical Batch Number: 956634

Sample ID	Client ID
247193002	RE15-10-8186
247193006	RE15-10-8187
247193008	RE15-10-8190
247193013	RE15-10-8226
247193014	RE15-10-8211
1202051230	247188001(RE15-10-8196) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

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-020 REV# 9.

Calibration Information:

Standards Information

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Quality Control (QC) Information:

Designated QC

The following sample was used for QC: 247188001 (RE15-10-8196). The QC was from LANL work order 247188.

QC Information

All of the QC samples met the required acceptance limits.

CSU

Not Applicable. The blank result is less than 1.65 times the CSU.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Blank Decision Level

Not Applicable. The blank result is less than the decision level.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	LSC, Tritium Dist, Solid
Analytical Method:	EPA 906.0 Modified
Analytical Batch Number:	961331

Sample ID	Client ID
247193001	RE15-10-8196
247193002	RE15-10-8186
247193003	RE15-10-8194
247193004	RE15-10-8189
247193008	RE15-10-8190
247193009	RE15-10-8193
247193010	RE15-10-8191
247193011	RE15-10-8192
247193014	RE15-10-8211
1202062033	Method Blank (MB)
1202062034	247193001(RE15-10-8196) Sample Duplicate (DUP)
1202062035	247193001(RE15-10-8196) Matrix Spike (MS)
1202062036	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

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-RAD-A-002 REV# 18.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met. The initial Calibration was performed in August 2009.

Standards Information

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 247193001 (RE15-10-8196). The QC was from LANL work order 247193.

QC Information

All of the QC samples met the required acceptance limits.

CSU

The blank result is less than 1.65 times the CSU.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

Samples were recounted due to a detector lock out condition. Recount is being reported.

Miscellaneous Information:**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Blank Decision Level

The blank result is less than the decision level.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: H3
Analytical Method: GL-RAD-A-002
Analytical Batch Number: 956741

Sample ID	Client ID
247193005	RE15-10-8188
247193006	RE15-10-8187
247193007	RE15-10-8197
247193012	RE15-10-8195
247193013	RE15-10-8226
1202051378	Method Blank (MB)
1202051379	247337001(RE15-10-8346) Sample Duplicate (DUP)
1202051380	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

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-RAD-A-002 REV# 18.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 247337001 (RE15-10-8346). The QC was from LANL work order 247337.

QC Information

All of the QC samples met the required acceptance limits.

CSU

The blank result is less than 1.65 times the CSU.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Blank Decision Level

The blank result is less than the decision level.

Qualifier information

Manual qualifiers were not required.

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/Date: _____

 3/11/10

SAMPLE DATA SUMMARY

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-1864 GEL Work Order: 247193

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by



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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8196
Sample ID: 247193001
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	1.23	4.14	+/-1.24	6.00	pCi/g		KXK2	03/08/10	1603	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8196
Sample ID: 247193001
Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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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

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Certificate of Analysis

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8186
Sample ID: 247193002
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 1.16%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
<i>"As Received"</i>												
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	1.69	4.11	+/-1.25	6.00	pCi/g		KXK2	03/08/10	1650	961331	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
 - > Result is greater than value reported
 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Certificate of Analysis

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8186
Sample ID: 247193002

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8194
Sample ID: 247193003
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	0.966	4.14	+/-1.23	6.00	pCi/g		KXK2	03/08/10	1738	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
 - > Result is greater than value reported
 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8194
Sample ID: 247193003

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8189
Sample ID: 247193004
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium		38.6	4.15	+/-4.93	6.00	pCi/g		KXK2	03/08/10	1825	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
 - > Result is greater than value reported
 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8189
Sample ID: 247193004

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded
The above sample is reported on an "as received" basis.

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8188
Sample ID: 247193005
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd.
Rad Liquid Scintillation Analysis											
<i>H3 "As Received"</i>											
Tritium		1.82E+05	286	+/-12800	250	pCi/L		KXK2	03/04/10	0714 956741	1

The following Analytical Methods were performed

Method	Description
1	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

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

E Organics--Concentration of the target analyte exceeds the instrument calibration range

F Estimated Value

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

M Matrix Related Failure

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 RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy--Uncertain identification

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Certificate of Analysis

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8188
Sample ID: 247193005

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Certificate of Analysis

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Address : PO Box 1663
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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8187
Sample ID: 247193006
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 2.49%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
"As Received"												
Rad Liquid Scintillation Analysis												
H3 "As Received"												
Tritium		89400	182	+/-6290	250	pCi/L		KXX2	03/04/10	0728	956741	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8187
Sample ID: 247193006

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Certificate of Analysis

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8197
Sample ID: 247193007
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>H3 "As Received"</i>												
Tritium		22100	157	+/-1570	250	pCi/L		KXK2	03/04/10	0749	956741	1

The following Analytical Methods were performed

Method	Description
1	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
 - > Result is greater than value reported
 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8197
Sample ID: 247193007

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd.
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X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8190
Sample ID: 247193008
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: .925%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
"As Received"												
Rad Liquid Scintillation Analysis												
LSC, Tritium Dist, Solid "As Received"												
Tritium		127	4.13	+/-15.1	6.00	pCi/g		KXK2	03/08/10	1912	961331	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
 - > Result is greater than value reported
 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8190
Sample ID: 247193008

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd.
-----------	-----------	--------	----	-----	----	-------	----	---------	------	------------	------

also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8193
Sample ID: 247193009
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	0.0665	4.13	+/-1.19	6.00	pCi/g		KXX2	03/08/10	1959	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
 - < Result is less than value reported
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 - A The TIC is a suspected aldol-condensation product
 - B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
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 - C Analyte has been confirmed by GC/MS analysis
 - D Results are reported from a diluted aliquot of the sample
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8193
Sample ID: 247193009

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	----	-----	----	-------	----	---------	------	------	-------	------

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8191
Sample ID: 247193010
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium		14.7	4.08	+/-2.31	6.00	pCi/g		KXK2	03/08/10	2046	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
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- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8191
Sample ID: 247193010

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	----	-----	----	-------	----	---------	------	------	-------	------

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8192
Sample ID: 247193011
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	3.87	4.11	+/-1.37	6.00	pCi/g		KXK2	03/08/10	2159	961331	1

The following Analytical Methods were performed

Method	Description
1	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
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 - A The TIC is a suspected aldol-condensation product
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 - 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
 - E Organics--Concentration of the target analyte exceeds the instrument calibration range
 - F Estimated Value
 - H Analytical holding time was exceeded
 - J Value is estimated
 - M M if above MDC and less than LLD
 - M Matrix Related Failure
 - 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8192
Sample ID: 247193011

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	----	-----	----	-------	----	---------	------	------	-------	------

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded
The above sample is reported on an "as received" basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8195
Sample ID: 247193012
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>H3 "As Received"</i>												
Tritium		28000	137	+/-1980	250	pCi/L		KXK2	03/04/10	0852	956741	1

The following Analytical Methods were performed

Method	Description
1	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
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- A The TIC is a suspected aldol-condensation product
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- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8195
Sample ID: 247193012

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	----	-----	----	-------	----	---------	------	------	-------	------

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8226
Sample ID: 247193013
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 2.43%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
<i>"As Received"</i>												
Rad Liquid Scintillation Analysis												
<i>H3 "As Received"</i>												
Tritium		86900	178	+/-6110	250	pCi/L		KXK2	03/04/10	0955	956741	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	GL-RAD-A-002

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
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- A The TIC is a suspected aldol-condensation product
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- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8226
Sample ID: 247193013

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	----	-----	----	-------	----	---------	------	------	-------	------

also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8211
Sample ID: 247193014
Matrix: R
Collect Date: 10-FEB-10
Receive Date: 16-FEB-10
Collector: Client
Moisture: 1.23%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids												
<i>"As Received"</i>												
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium	U	0.867	4.14	+/-1.22	6.00	pCi/g		KXK2	03/08/10	2246	961331	2

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	EPA 906.0 Modified

Notes:

TPU is calculated at the 67% confidence level (1-sigma).

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
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- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- 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 RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 10, 2010

Client Sample ID: RE15-10-8211
Sample ID: 247193014

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	TPU	RL	Units	DF	Analyst	Date	Time Batch	Mtd.
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also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis.

QUALITY CONTROL DATA

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QC Summary

Report Date: March 10, 2010

Page 1 of 2

Client : Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm
Los Alamos, New Mexico
Contact: Ms. Joylene Valdez
Workorder: 247193

Parmname	NOM	Sample	Qual	QC	Units	RER	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	956741										
QC1202051379	247337001	DUP									
Tritium			301	272	pCi/L	0.151		(0-1)	KXX2	03/04/10	18:37
		TPU:	+/-48.7	+/-46.2							
QC1202051380	LCS										
Tritium		5540		5950	pCi/L		107	(80%-120%)		03/04/10	19:40
		TPU:		+/-489							
QC1202051378	MB										
Tritium			U	3.31	pCi/L					03/04/10	17:35
		TPU:		+/-32.5							
Batch	961331										
QC1202062034	247193001	DUP									
Tritium			U	2.37	pCi/g	0.225		(0-1)	KXX2	03/09/10	01:08
		TPU:	+/-1.24	+/-1.30							
QC1202062036	LCS										
Tritium		33.6		35.2	pCi/g		105	(80%-120%)		03/09/10	02:11
		TPU:		+/-5.21							
QC1202062033	MB										
Tritium			U	0.295	pCi/g					03/09/10	00:20
		TPU:		+/-1.18							
QC1202062035	247193001	MS									
Tritium		33.8	U	32.6	pCi/g		96.4	(75%-125%)		03/09/10	01:55
		TPU:	+/-1.24	+/-4.92							

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- 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
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on

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Workorder: 247193

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RER	REC%	Range	Anlst	Date Time
	nearest internal standard response factor								
N/A	RPD or %Recovery limits do not apply.								
ND	Analyte concentration is not detected above the detection limit								
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%								
R	Sample results are rejected								
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.								
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								
^	RPD of sample and duplicate evaluated using +/- RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.								
h	Preparation or preservation holding time was exceeded								

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

RAW DATA

Radiochemistry Batch Checklist, Rev10

Batch#

956741

Product:

Tritium

Date:

3/5/10

Criteria:	Yes	No	Comments
Sample Solids are less than or equal to 100 mg for GAB.			NA
Samples have been blank corrected (if required)			NA
If activity less 10* MDA/ MDC, error is 150% or less of sample activity. If greater 10* MDA/ MDC, error is 40% or less. If below the MDA/ MDC, error is okay.	✓		
Instrument source check is within limits.	✓		
Instrument bkg check is within limits.	✓		
Method RDL/ LLD has been met.	✓		
If duplicate activities are less 5* MDA/ MDC, then RPD is 100% or less. If greater 5* MDA/ MDC, then RPD 20% or less. If below the MDA/ MDC, the RPD is 0%.	✓		
Or meets the client's required RER acceptance criteria.			
Tracer yield is 15-125% . Carrier yield 25-125%.			NA
Or meets the client's contract acceptance criteria.			
Method blank is less than the RDL/ LLD.	✓		
(If rad samples, < 5% of lowest activity)	✓		
Sample was run within hold time.	✓		
Sample was correctly preserved if required.	✓		
Smears Taken for Radioactive batches.			NA
Method Spike and LCS are within 75-125% or meets the client's contract acceptance criteria.	✓		
No blank spaces on data forms.	✓		
All line outs initialed and dated.	✓		
No transcription errors are apparent.	✓		
Aux data is correct.			NA
Client Special requirements page has been checked.	✓		NA 3/5/10
Raw Data and/ or spectrum are included and properly statused.	✓		
QC data entered into QC database and batch is in REVW	✓		
Hit notification complete (if necessary)			NA
Batch entered into Case Narrative.	✓		
Batch Data Exception Reports (DER) completed, if applicable.			NA
Batch Data Exception Reports (DER) second reviewed and disposition verified to be completed.			NA
Allquot Correction completed if required.			NA
Review sample historical results if available (If REMP, results above MDC have been verified by historical results, recount or re-analysis.)	✓		

GEL Laboratories, LLC

RADcheckdistrev10, revised 1/13/2010

Primary Review Performed By:

Dymokee Pare

LANL 3/16/10

Secondary Review Performed By:

Lynette Lyle 3/5/10

Tritium Que Sheet

Batch #: 956741

Analyst: KKK2

First Client Due Date 16-MAR-10

Internal Due Date: 05-MAR-10

Spike Isotope: Hydrogen-3

Spike Code:

Expiration Date: 3/27/10

Vol:

LCS Isotope: Hydrogen-3

LCS Code: 0124-K

Expiration Date: 3/27/10

Vol: 0.1

Prep Date: 3/2/10

Initials: KKK

Pipet ID: 2970968

Witness: JK 3/3/10

Sample ID	Client Samp ID	Type	Hazard Code	Min CRDL	Matrix	Client	Sample Date	Aliquot in vial (g/L)	LSC Rack #	Dist Rig #	Vol added for Dist (mL)	Initial Sample Aliquot (g/L)	Final Wt (g)	Total Moisture Dist Vol (mL)
-----------	----------------	------	-------------	----------	--------	--------	-------------	-----------------------	------------	------------	-------------------------	------------------------------	--------------	------------------------------

247193005-1	RE15-10-8188	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	10-FEB-10	8	30	5		603.52	593.86	9.66
247193006-1	RE15-10-8187	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	10-FEB-10	10	31	6		561.46	547.98	13.48
247193007-1	RE15-10-8197	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	10-FEB-10	7.5	32	7		570.43	562.44	7.99
247193012-1	RE15-10-8195	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	10-FEB-10	8.5	33	12		594.73	585.81	8.92
247193013-1	RE15-10-8226	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	10-FEB-10	10	34	13		571.21	557.56	13.71
247337001-1	RE15-10-8346	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	12-FEB-10	10	35	15		620.86	555.22	65.14
247337002-1	RE15-10-8347	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	12-FEB-10	10	36	16		599.81	583.62	16.19
247337003-1	RE15-10-8344	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	12-FEB-10	10	37	17		593.30	561.76	32.04
247337004-1	RE15-10-8345	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	12-FEB-10	10	38	18		647.10	606.98	40.12
247337005-1	RE15-10-8342	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	12-FEB-10	10	39	19		592.19	560.80	31.39
247337006-1	RE15-10-8343	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	12-FEB-10	10	40	20		577.79	554.10	23.69
247337007-1	RE15-10-8377	SAMPLE		.25 pCi/mL SOIL	LANL010	LANL010	12-FEB-10	10	41	21		612.92	580.44	32.48
1202051378-1	MB for batch 956741	MB		.25 pCi/mL SOIL	QC ACCOUNT	QC ACCOUNT		10	42	22		20.00	0.00	20.00
1202051379-1	RE15-10-8346(247337001DUP)	DUP		.25 pCi/mL SOIL	QC ACCOUNT	QC ACCOUNT	12-FEB-10	10	43	15		620.36	555.22	65.14
1202051380-1	LCS for batch 956741	LCS		.25 pCi/mL SOIL	QC ACCOUNT	QC ACCOUNT		10	44	23		20.00	0.00	20.00

Bkg Rack #: 29

Comments:

Bkg prepared with dead water? Yes/No

Instrument Used (circle as appropriate): LS6000 (Red) 7065155, LS6500 (Blue) 7067083, LS6500

(Gold) 7070506, LS6500 (Green) 7067404, Wallac (Yellow) 4140127, LS6000 (Brown) 7060655, Wallac

(Pink) 2200082, Wallac (White) 4140299, Purple 7069123, Silver 7060656, Orange DG06095168

Calibration Used: Ecocount Ultra (10 mL sample/13 mL Ecocount Ultra)

Data Reviewed By: Anyman/Par 3516

GEL Laboratories LLC, Radiochemistry Division

Page 1 of 1

DATE	3/1/2010	INITIALS	KXK2	BATCH NUMBER	956741	
Sample #	Sample Wet (g)	% Moisture of Sample (Balance Interface using % Moisture Batch)	Total Moisture in Sample (mL)	Sample Dry (g)	mLs aliquoted into LSC vial	Collection Tube Number
247193001	0.00	0.011	0.00	0.00	10	
247193002	0.00	0.011	0.00	0.00	10	
247193003	0.00	0.010	0.00	0.00	10	
247193004	0.00	0.010	0.00	0.00	10	
247193005	603.52	0.016	9.66	593.86	8	
247193006	561.46	0.024	13.48	547.98	10	
247193007	570.43	0.014	7.99	562.44	7.5	
247193008	0.00	0.009	0.00	0.00	10	
247193009	0.00	0.012	0.00	0.00	10	
247193010	0.00	0.006	0.00	0.00	10	
247193011	0.00	0.012	0.00	0.00	10	
247193012	594.73	0.015	8.92	585.81	8.5	
247193013	571.21	0.024	13.71	557.50	10	
247193014	0.00	0.012	0.00	0.00	10	
247337001	620.36	0.105	65.14	555.22	10	
247337002	599.81	0.027	16.19	583.62	10	
247337003	593.30	0.054	32.04	561.26	10	
247337004	647.10	0.062	40.12	606.98	10	
247337005	592.19	0.053	31.39	560.80	10	
247337006	577.79	0.041	23.69	554.10	10	
247337007	612.92	0.053	32.48	580.44	10	
MB	20.00	1.000	20.00	0.00	10	
DUP	620.36	0.105	65.14	555.22	10	
LCS	20.00	1.000	20.00	0.00	10	

Tritium Solid

Filename : H3VAC.XLS
File type : Excel
Version # : 1.2.6

Spike S/N :
Spike Exp Date :
Spike Activity (dpm/ml):
Spike Volume Added:

LCS S/N :
LCS Exp Date :
LCS Activity (dpm/ml):
LCS Volume Added:

Batch : 856741
Analyst : KKK2
Prep Date : 3/2/2010

H-3 Abundance : 1

Method Uncertainty : 0.0691

Geometry: 10mL DW/13mL
Eosolent Ultra

Procedure Code : LSC_VH3S

Paramname : Tritium
Required MDC : 250
Half-life of Tritium : 12.32
pCi/L
years

Sample Characteristics									
Pos.	Sample ID	Wet Sample Weight (g)	Total Moisture L	Sample Aliquot in Vial L	Sample Aliquot Sidev. L	Dry Sample Weight (g)	% Moisture of Sample	Rig number	Sample Date/Time
1	247193005.1	603.52	0.0097	0.0080	2.5729E-05	593.86	1.60%	5	2/10/2010 12:00
2	247193006.1	591.46	0.0135	0.0100	2.5729E-05	547.98	2.40%	6	2/10/2010 12:00
3	247193007.1	570.43	0.0060	0.0075	2.5729E-05	562.44	1.40%	7	2/10/2010 12:00
4	247193012.1	594.73	0.0089	0.0085	2.5729E-05	585.81	1.50%	12	2/10/2010 12:00
5	247193013.1	571.21	0.0137	0.0100	2.5729E-05	557.50	2.40%	13	2/10/2010 12:00
6	247337001.1	620.36	0.0651	0.0100	2.5729E-05	555.22	10.60%	15	2/12/2010 12:00
7	247337002.1	599.81	0.0162	0.0100	2.5729E-05	583.62	2.70%	16	2/12/2010 12:00
8	247337003.1	593.30	0.0320	0.0100	2.5729E-05	561.26	5.40%	17	2/12/2010 12:00
9	247337004.1	647.10	0.0401	0.0100	2.5729E-05	606.98	6.20%	18	2/12/2010 12:00
10	247337005.1	582.19	0.0314	0.0100	2.5729E-05	560.80	5.30%	19	2/12/2010 12:00
11	247337006.1	577.79	0.0237	0.0100	2.5729E-05	554.10	4.10%	20	2/12/2010 12:00
12	247337007.1	612.82	0.0325	0.0100	2.5729E-05	580.44	5.30%	21	2/12/2010 12:00
13	1202051378.1	20.00	0.0200	0.0100	2.5729E-05	0.00	100.00%	22	3/2/2010 0:00
14	1202051378.1	620.36	0.0651	0.0100	2.5729E-05	555.22	10.50%	15	2/12/2010 12:00
15	1202051380.1	20.00	0.0200	0.0100	2.5729E-05	0.00	100.00%	23	3/2/2010 0:00

Count raw Data				Background				Calibration Data				Backgrounds			
Pos.	Rack Position #	Counting Time (min.)	Quench#	Gross cpm	cpm	Count Time (min.)	Count Start Date/Time	Sample Decay	Counted on	Calibration Date	Calibration Due Date	Detector Efficiency (cpm/dpm)	Detector Efficiency Error (cpm/dpm)	Rack Position #	Count Start Date/Time
1	30	11.5463	762.45	888.28	1.15	60	3/4/2010 7:14	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2751	0.00782	29	3/4/2010 6:11
2	31	19.3297	757.63	528.99	1.15	60	3/4/2010 7:28	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2672	0.00792	29	3/4/2010 6:11
3	32	60.0297	757.01	98.6	1.15	60	3/4/2010 7:49	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2682	0.00792	29	3/4/2010 6:11
4	33	60.0297	758.6	142.78	1.15	60	3/4/2010 8:52	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2688	0.00792	29	3/4/2010 6:11
5	34	19.463	761.42	526.51	1.15	60	3/4/2010 9:55	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2734	0.00792	29	3/4/2010 6:11
6	35	60.0297	758.47	2.94	1.15	60	3/4/2010 10:16	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2686	0.00792	29	3/4/2010 6:11
7	36	60.0297	758.55	2.64	1.15	60	3/4/2010 11:19	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2704	0.00792	29	3/4/2010 6:11
8	37	60.013	759.03	3.24	1.15	60	3/4/2010 12:21	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2695	0.00792	29	3/4/2010 6:11
9	38	60.0297	758.81	2.18	1.15	60	3/4/2010 13:24	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2691	0.00792	29	3/4/2010 6:11
10	39	60.013	761.49	3.03	1.15	60	3/4/2010 14:28	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2735	0.00792	29	3/4/2010 6:11
11	40	60.0297	762.89	2.89	1.15	60	3/4/2010 15:29	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2758	0.00782	28	3/4/2010 6:11
12	41	60.0297	757.99	2.5	1.15	60	3/4/2010 16:32	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2678	0.00792	28	3/4/2010 6:11
13	42	60.0296	760.97	1.17	1.15	60	3/4/2010 17:35	1.000	LSCORANGE	7/23/2009	7/31/2010	0.2727	0.00792	29	3/4/2010 6:11
14	43	60.0296	762.59	2.81	1.15	60	3/4/2010 18:37	0.997	LSCORANGE	7/23/2009	7/31/2010	0.2753	0.00792	29	3/4/2010 6:11
15	44	15.013	761.76	37.29	1.15	60	3/4/2010 19:40	1.000	LSCORANGE	7/23/2009	7/31/2010	0.2739	0.00792	29	3/4/2010 6:11

Notes:

- 1 - Results are decay corrected to Sample Date/Time
2 - Reference date for Spike Activity (cpm/ml) is the batch Prep Date
3 - Spike Nominals are decay corrected to Sample Date/Time

Page 3

REGISTRY

THU 4 MAR 2010 6:09

*** DIRECTORY PATH :S:\LSC\O\DA\956741A0 ***

PARAMETER GROUP: 8
ID: H-3 (2)

00A PROGRAM MODE

6 ->

ORDER	POS	ID	CTIME	COUNTS	CUCNTS	MCW	REP	STD	STMS	STIME
1	29	BKG	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
2	30	247193005	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
3	31	247193006	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
4	32	247193007	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
5	33	247193012	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
6	34	247193013	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
7	35	247337001	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
8	36	247337002	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
9	37	247337003	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
10	38	247337004	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
11	39	247337005	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
12	40	247337006	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
13	41	247337007	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
14	42	1202051378	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
15	43	1202051379	60:00	1.0E04	NO LIM	1	1	Y	1/10	1:00
16	44	1202051380	15:00	1.0E04	NO LIM	1	1	Y	1/10	1:00

NUMBER OF CYCLES 1
COINCIDENCE BIAS (L/H) L

MCA INPUT TRIGG. INHIBIT
1 LRSUM DCOS G
2 GSUM G

MEMORY SPLIT
L*R
L*R

WINDOW	CHANNELS	MCA	HALF
1	50- 175	1	2
2	5- 320	1	2
3	1- 1024	1	2
4	50- 320	1	1
5	50- 270	1	1
6	60- 220	1	1
7	1- 1024	2	1
8	1- 1024	2	2

SELECTED PRINTOUT FOR TERMINAL 1 (A)

SELECTED PRINTOUT FOR TERMINAL 2 (B)

1. POS	2. ID	3. CTIME	4. SQP	5. CPM1	6. CPM2	7. CPM3
SEND SPECTRA 12						
RESOLUTION OF SPECTRA 1024						
LISTING Y						
INSTRUMENT NUMBER 1						

POS	ID	CTIME	SQP	CPM1	CPM2	CPM3
-----	----	-------	-----	------	------	------

Page 1

REGISTRY

Q012901N.001	4 MAR 2010	7:12				
29	BKG	60:01.780	759.71	1.15	2.40	6.97
Q023001N.001	4 MAR 2010	7:26				
30	247193005	11:32.780	762.45	888.28	970.11	974.45
Q033101N.001	4 MAR 2010	7:48				
31	247193006	19:19.780	757.63	529.99	577.44	582.10
Q043201N.001	4 MAR 2010	8:50				
32	247193007	60:01.780	757.01	98.60	107.69	112.86
Q053301N.001	4 MAR 2010	9:53				
33	247193012	60:01.780	758.60	142.76	155.30	159.99
Q063401N.001	4 MAR 2010	10:15				
34	247193013	19:27.780	761.42	526.51	580.32	585.73
Q073501N.001	4 MAR 2010	11:17				
35	247337001	60:01.780	758.47	2.94	4.33	8.69
Q083601N.001	4 MAR 2010	12:20				
36	247337002	60:01.779	759.55	2.64	3.95	8.52
Q093701N.001	4 MAR 2010	13:22				
37	247337003	60:00.779	759.03	3.24	4.51	9.65
Q103801N.001	4 MAR 2010	14:25				
38	247337004	60:01.779	758.81	2.18	3.68	8.66
Q113901N.001	4 MAR 2010	15:27				
39	247337005	60:00.779	761.49	3.03	4.55	9.85
Q124001N.001	4 MAR 2010	16:30				
40	247337006	60:01.779	762.89	2.69	4.10	8.96
Q134101N.001	4 MAR 2010	17:33				
41	247337007	60:01.779	757.99	2.50	3.78	8.44
Q144201N.001	4 MAR 2010	18:36				
42	1202051378	60:01.778	760.97	1.17	2.50	7.28
Q154301N.001	4 MAR 2010	19:38				
43	1202051379	60:01.778	762.59	2.81	4.41	8.90
Q164401N.001	4 MAR 2010	19:56				
44	1202051380	15:00.778	761.76	37.29	42.88	46.77

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\sc\files\orange\956741A0\SQ012901N.001.xls
s:\sc\files\orange\956741A0\U956741A0.xls

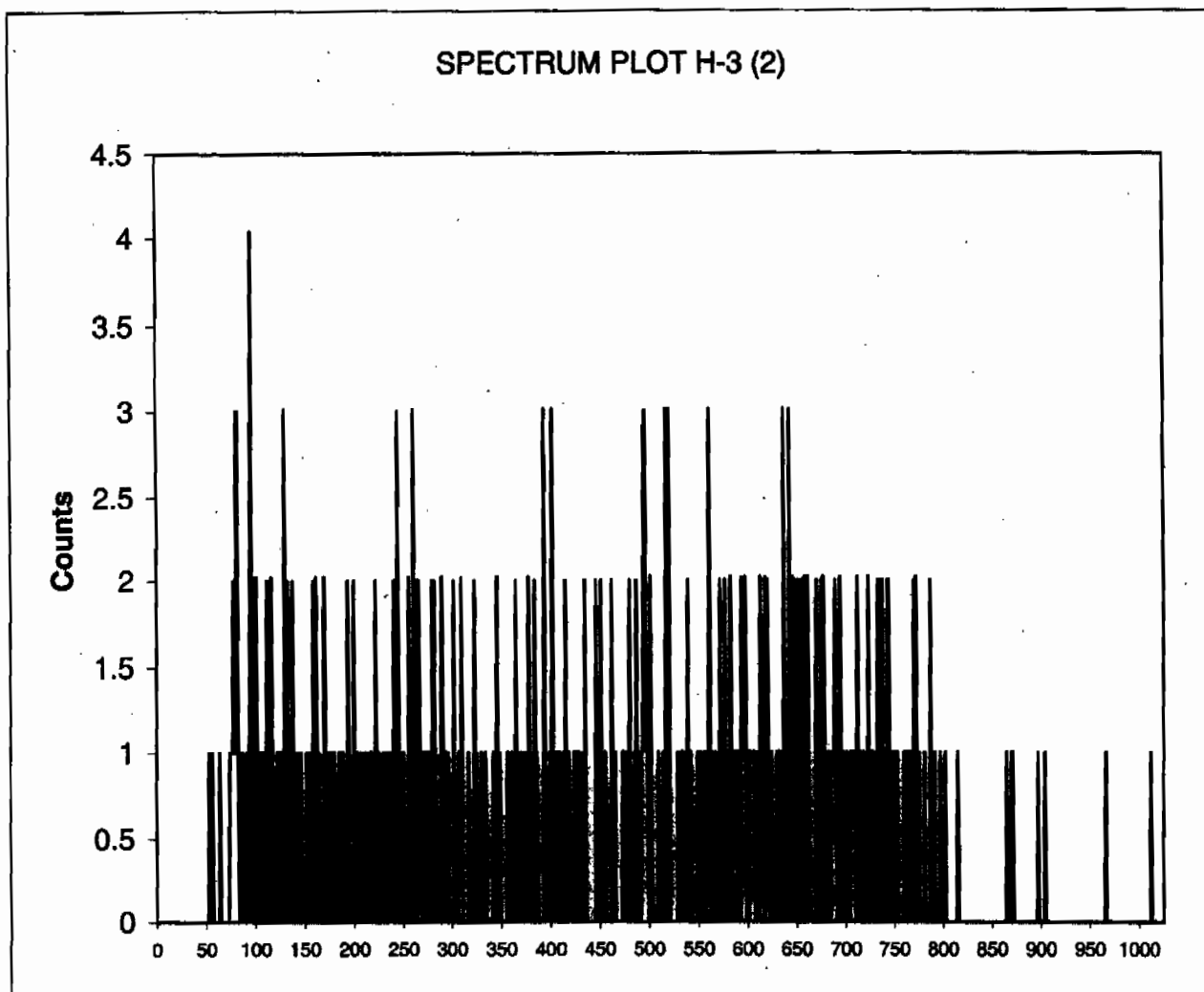
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

1, BKG, 60.02967:
759.71
50-175

Channel Counts



32 0
33 0
34 0
35 0

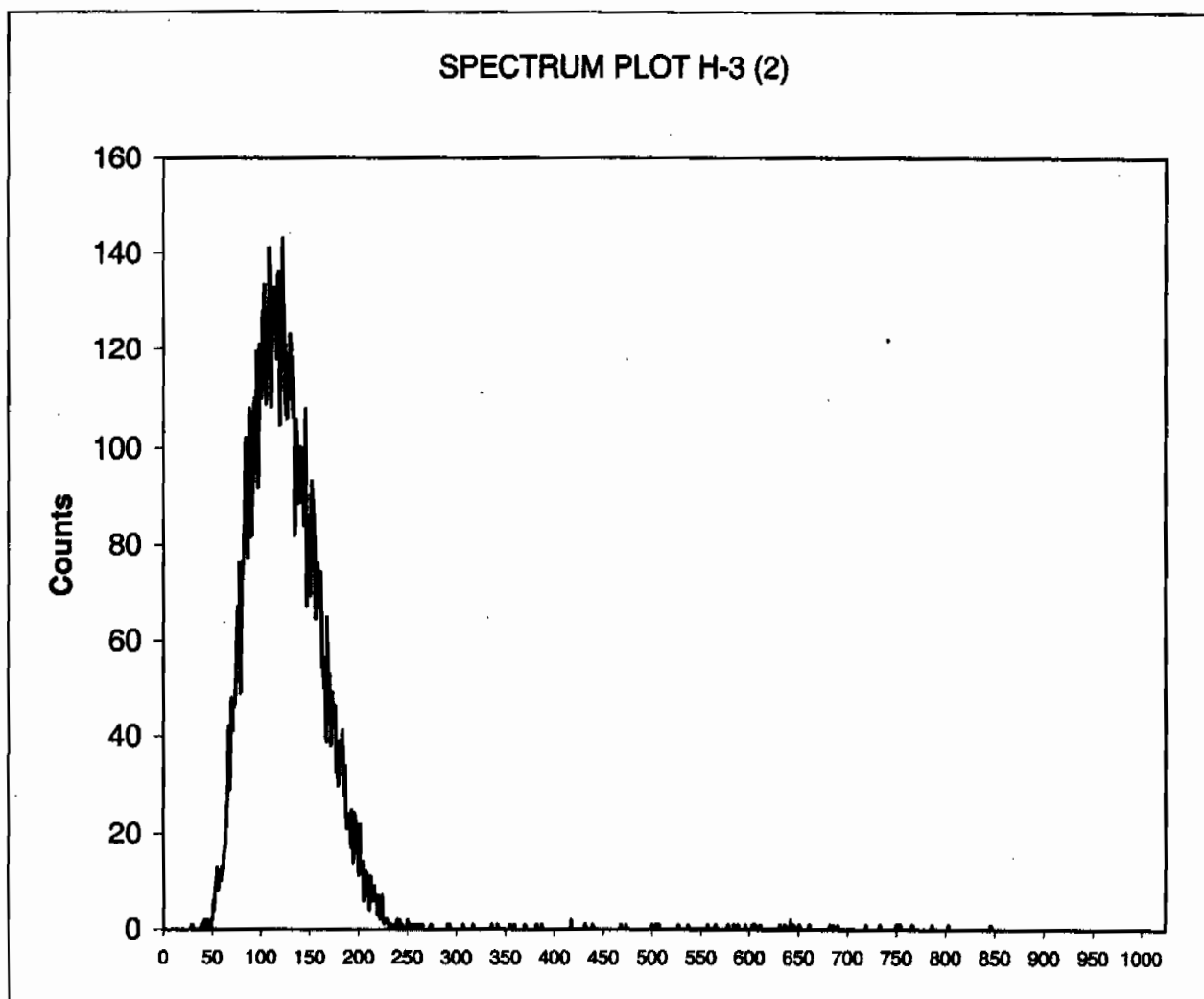
Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\sc\files\orange\956741A0\SQ023001N.001.xls
s:\sc\files\orange\956741A0\U956741A0.xls

ID: H-3 (2)
Comments: ORANGE

Sample, Rack-Pos, Time: 2, 247193005, 11.54633:
Quench: 762.45
Start, End, X-Axis 50-175

Channel Counts



32	0
33	0
34	0
35	0

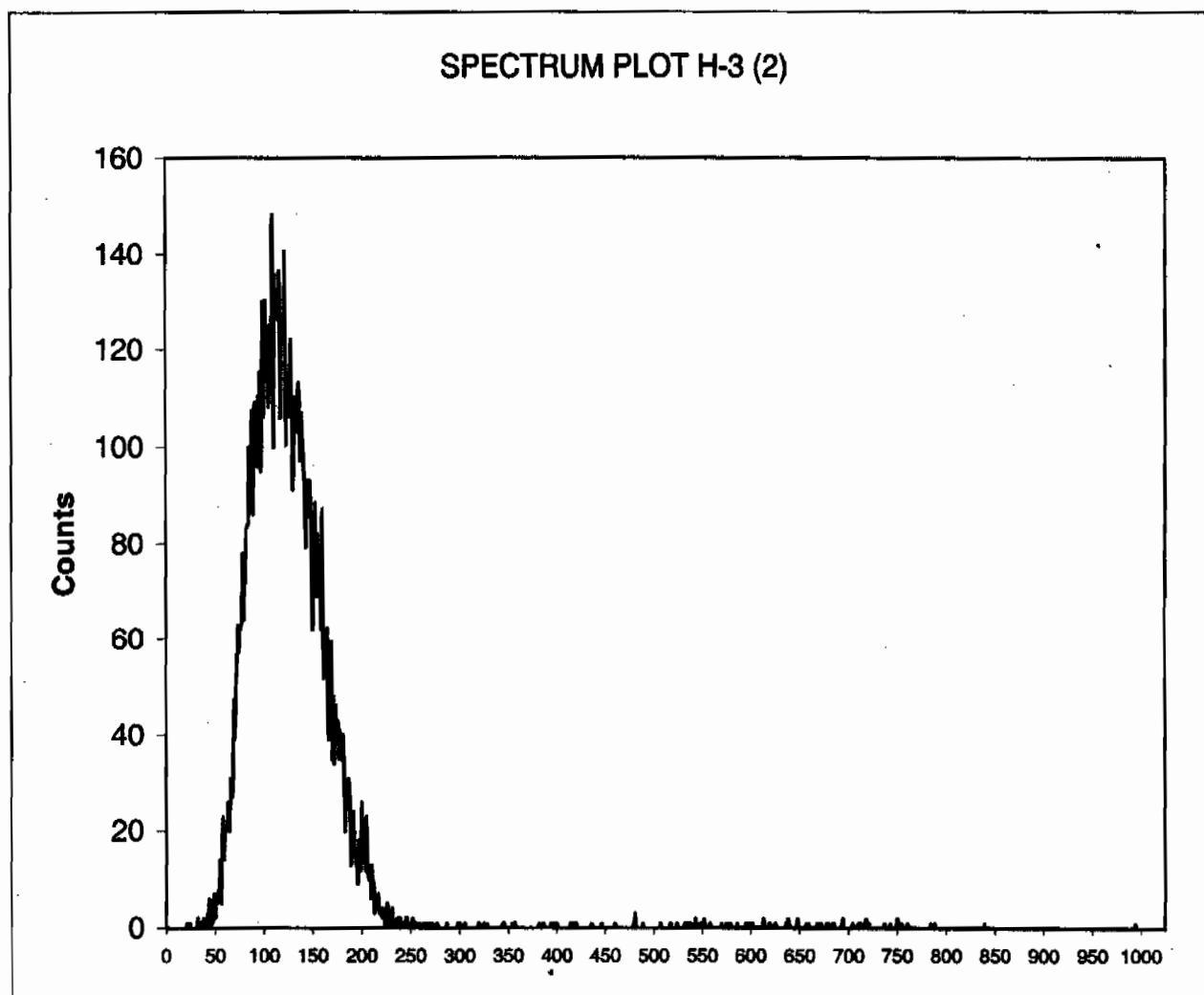
Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\scfiles\orange\956741A0\SQ033101N.001.xls
s:\scfiles\orange\956741A0\U956741A0.xls

ID: H-3 (2)
Comments: ORANGE

Sample, Rack-Pos, Time: 3, 247193006, 19.32967:
Quench: 757.63
Start, End, X-Axis 50-175

Channel Counts



32	2
33	0
34	1
35	1

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
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s:\sc\files\orange\956741A0\U956741A0.xls

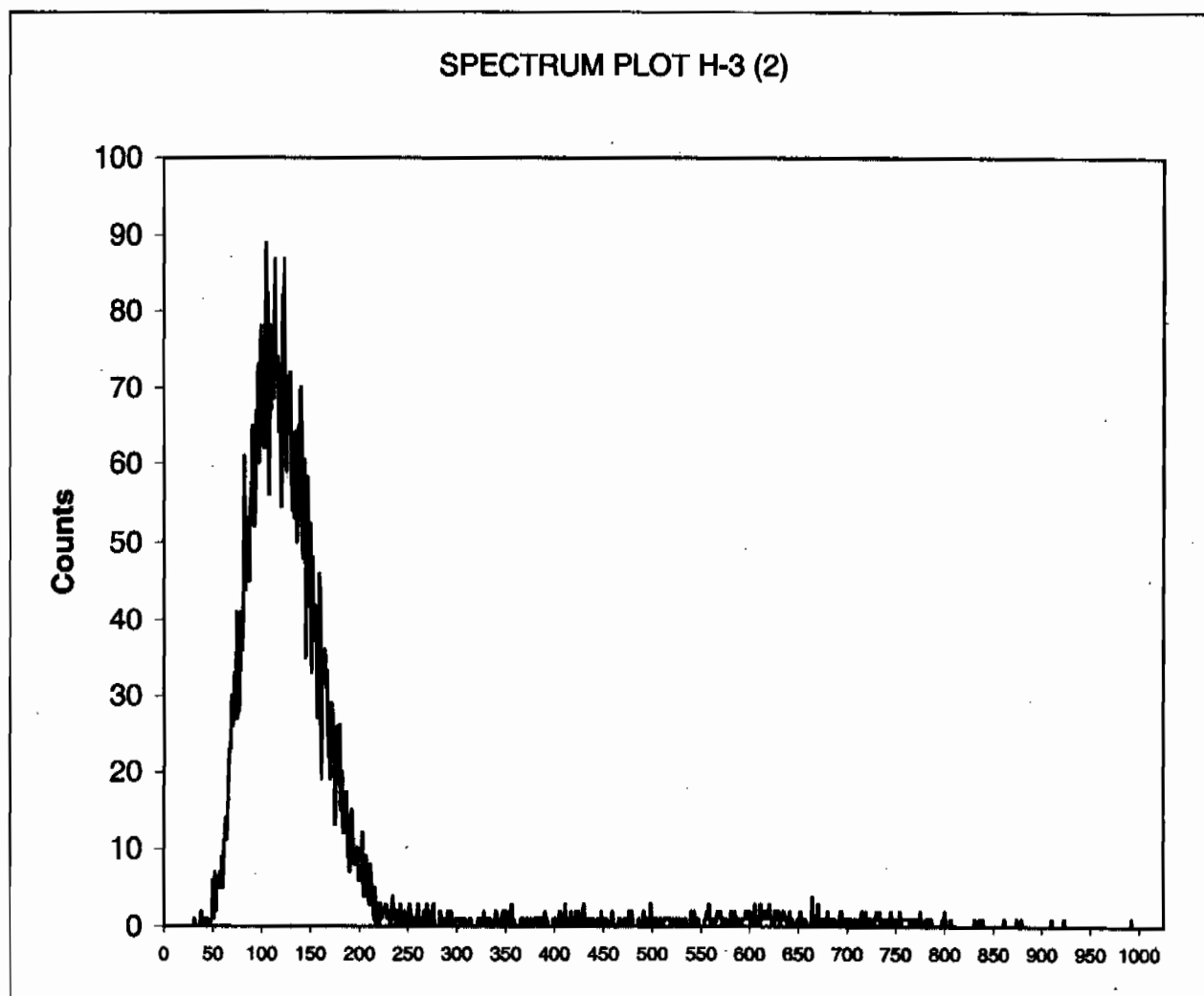
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

4, 247193007, 60.02967:
757.01
50-175

Channel Counts



32	0
33	0
34	0
35	0

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\sc\files\orange\956741A0\SQ053301N.001.xls
s:\sc\files\orange\956741A0\U956741A0.xls

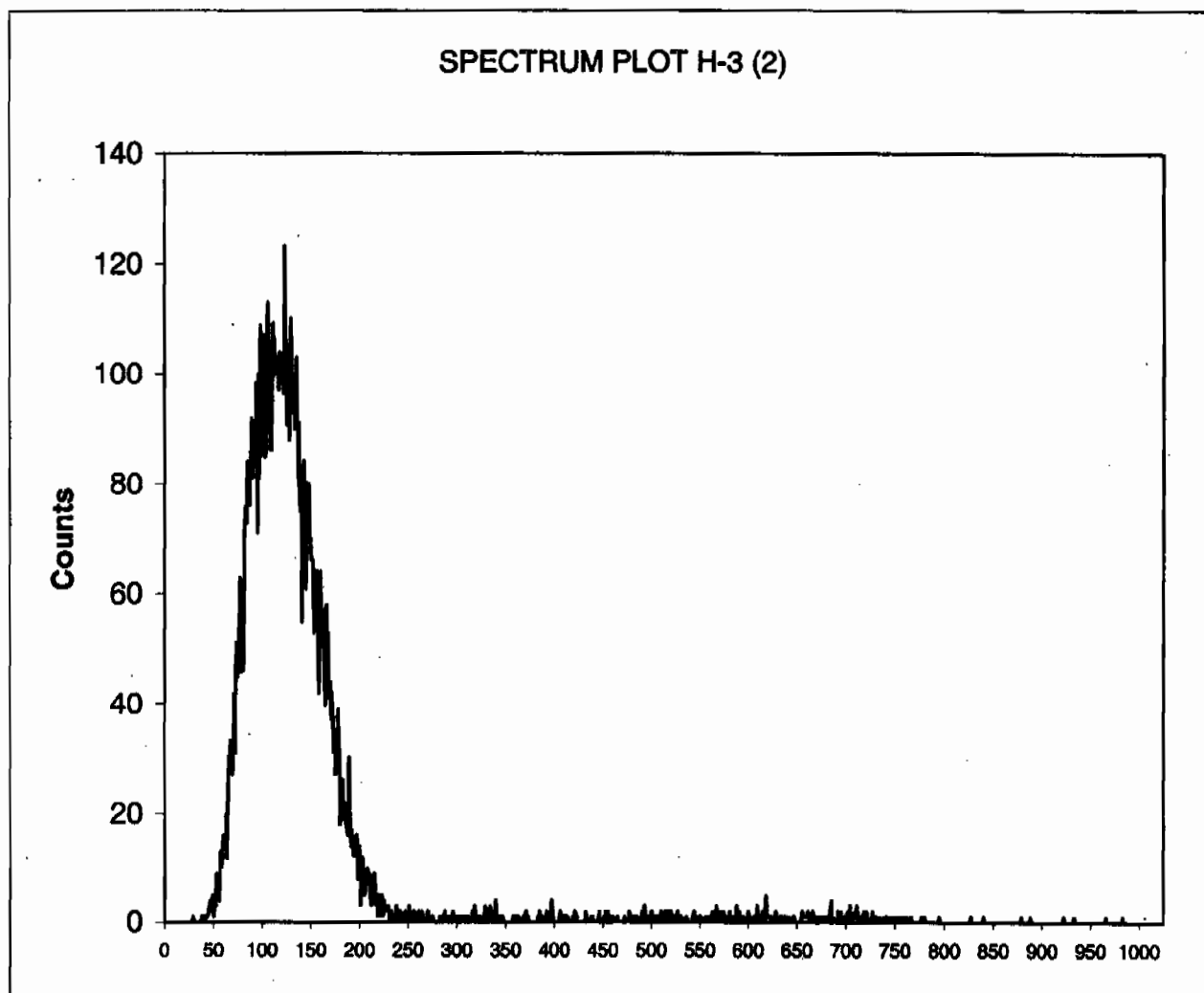
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

5, 247193012, 60.02967:
758.6
50-175

Channel Counts



32	0
33	0
34	0
35	0

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
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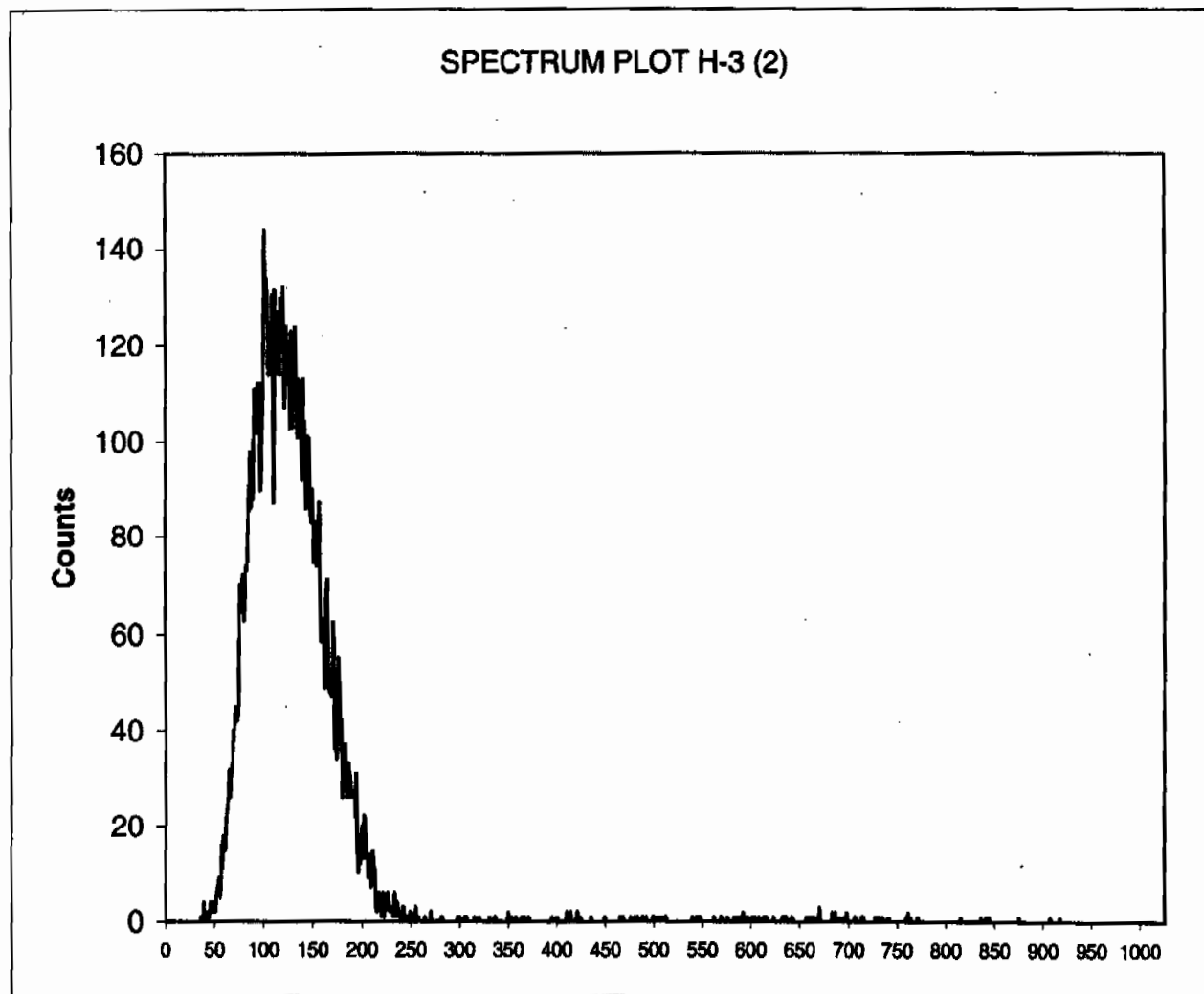
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

6, 247193013, 19.463:
761.42
50-175

Channel Counts



32	0
33	0
34	0
35	0

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
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s:\sc\files\orange\956741A0\U956741A0.xls

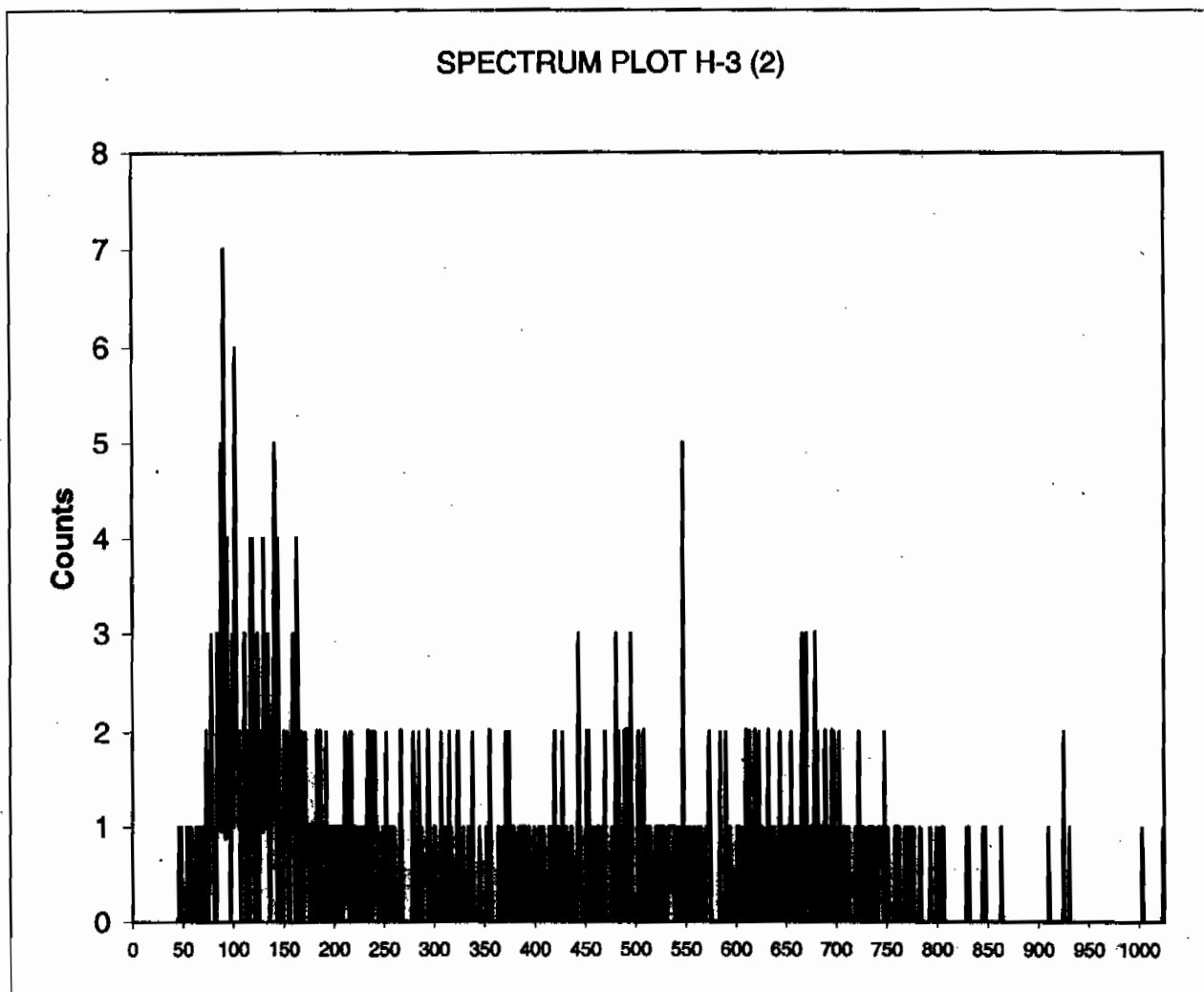
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

7, 247337001, 60.02967:
758.47
50-175

Channel Counts



32	0
33	0
34	0
35	0

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
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s:\sc\files\orange\956741A0\U956741A0.xls

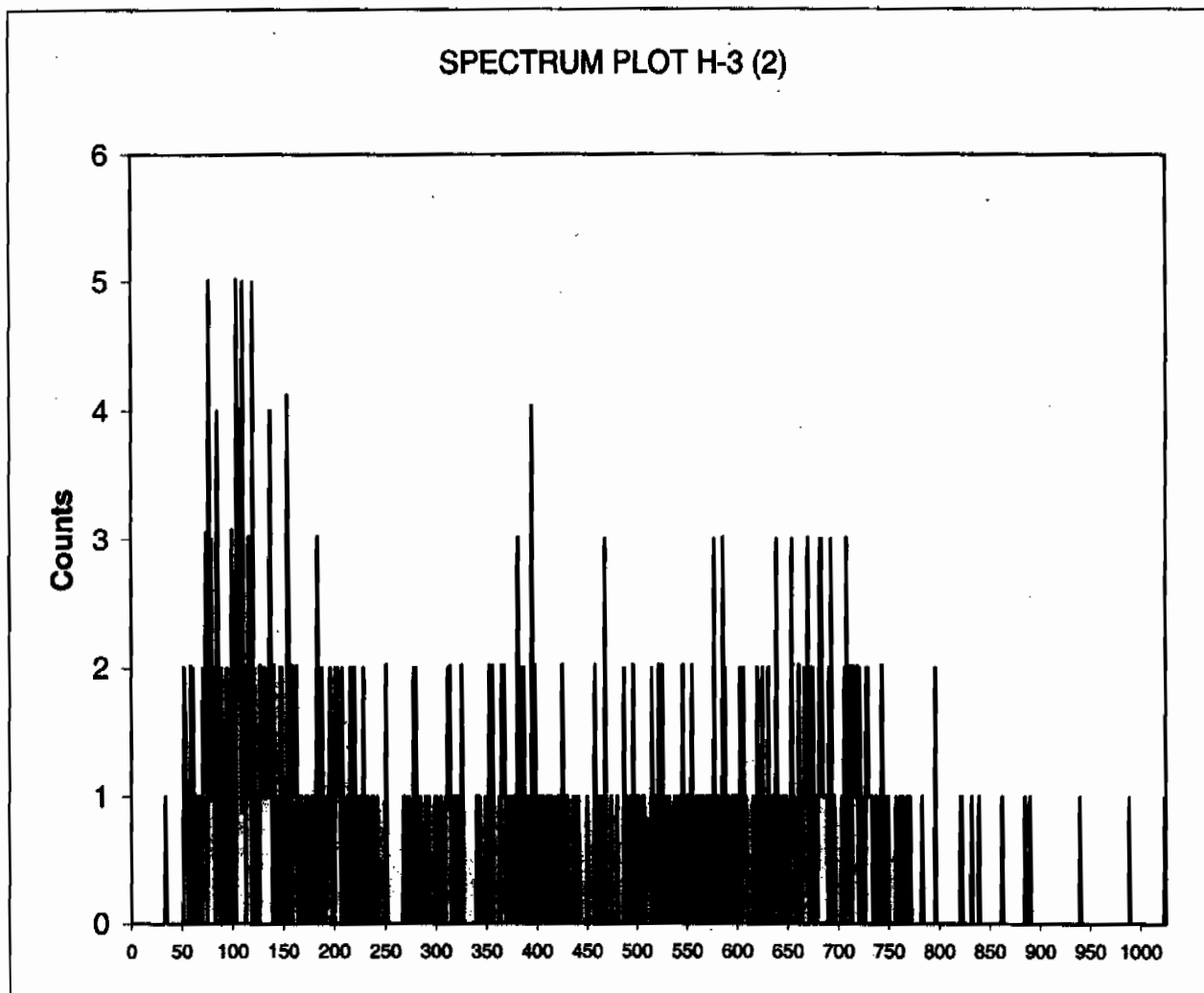
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

8, 247337002, 60.02965:
759.55
50-175

Channel Counts



32	0
33	0
34	1
35	0

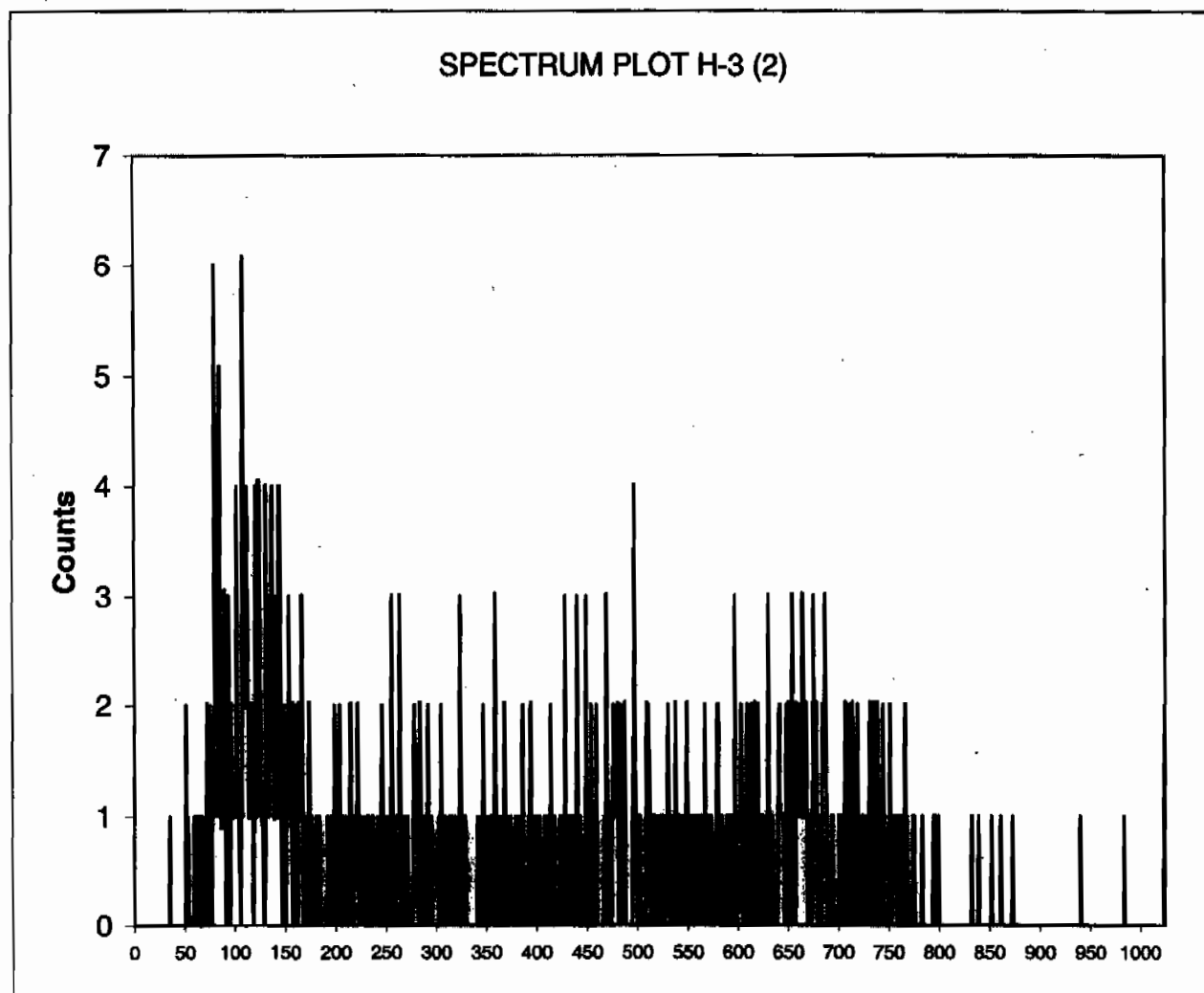
Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
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s:\sc\files\orange\956741A0\U956741A0.xls

ID: H-3 (2)
Comments: ORANGE

Sample, Rack-Pos, Time: 9, 247337003, 60.01299:
Quench: 759.03
Start, End, X-Axis 50-175

Channel Counts



Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\sc\files\orange\956741A0\SQ103801N.001.xls
s:\sc\files\orange\956741A0\U956741A0.xls

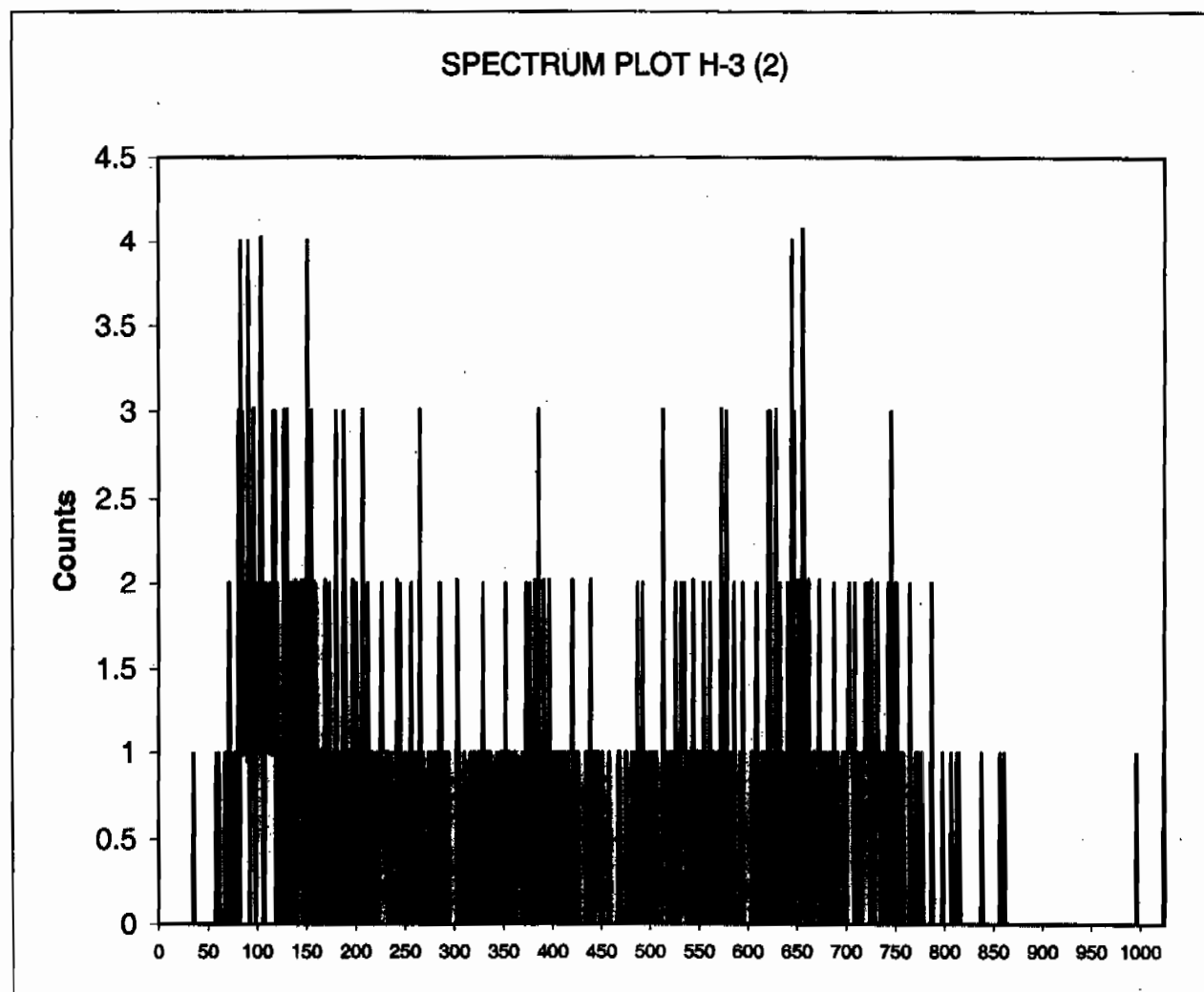
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

10, 247337004, 60.02965:
758.81
50-175

Channel Counts



32	0
33	0
34	0
35	1

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\sc\files\orange\956741A0\SQ113901N.001.xls
s:\sc\files\orange\956741A0\U956741A0.xls

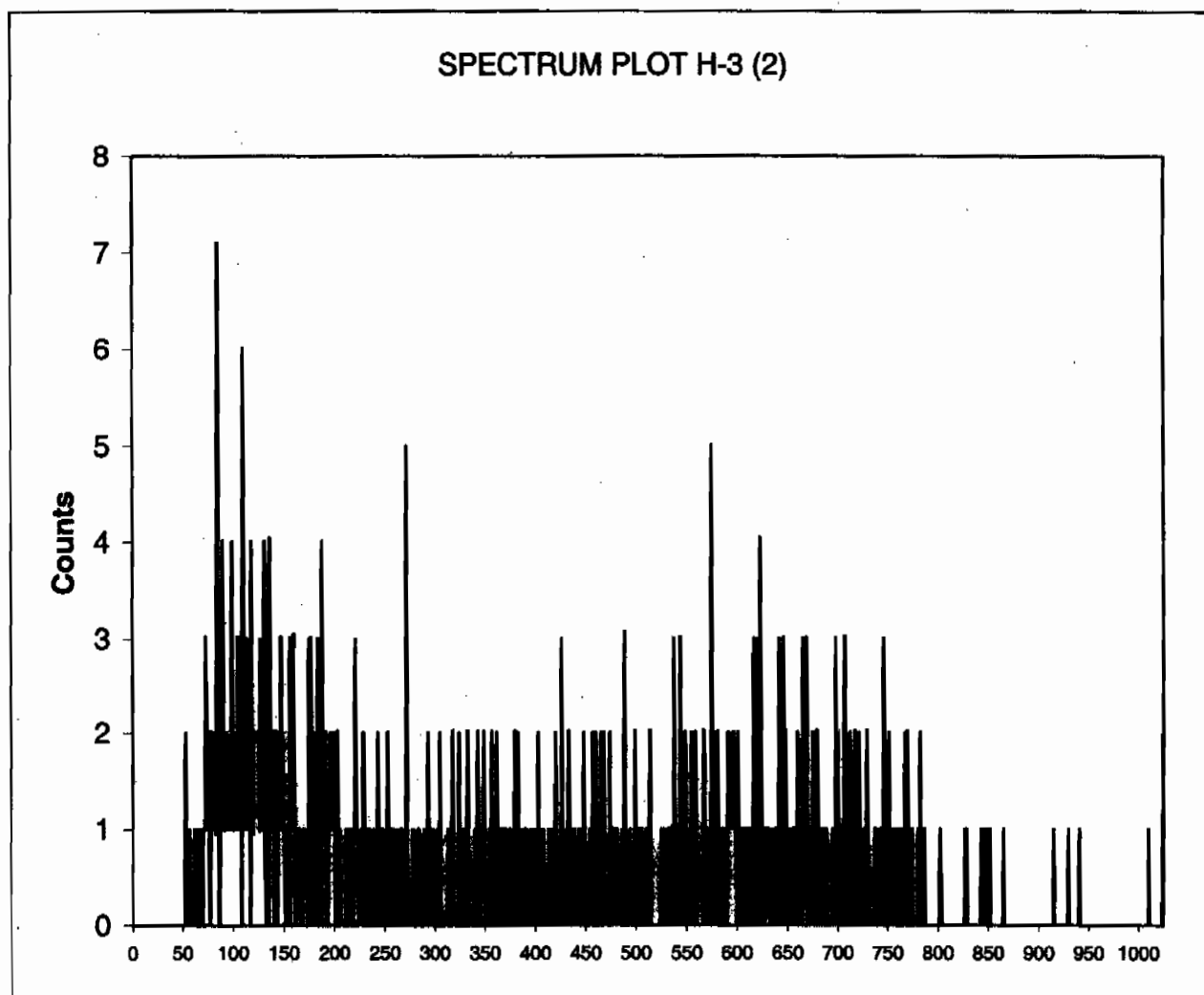
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

11, 247337005, 60.01299:
761.49
50-175

Channel Counts



32	0
33	0
34	0
35	0

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
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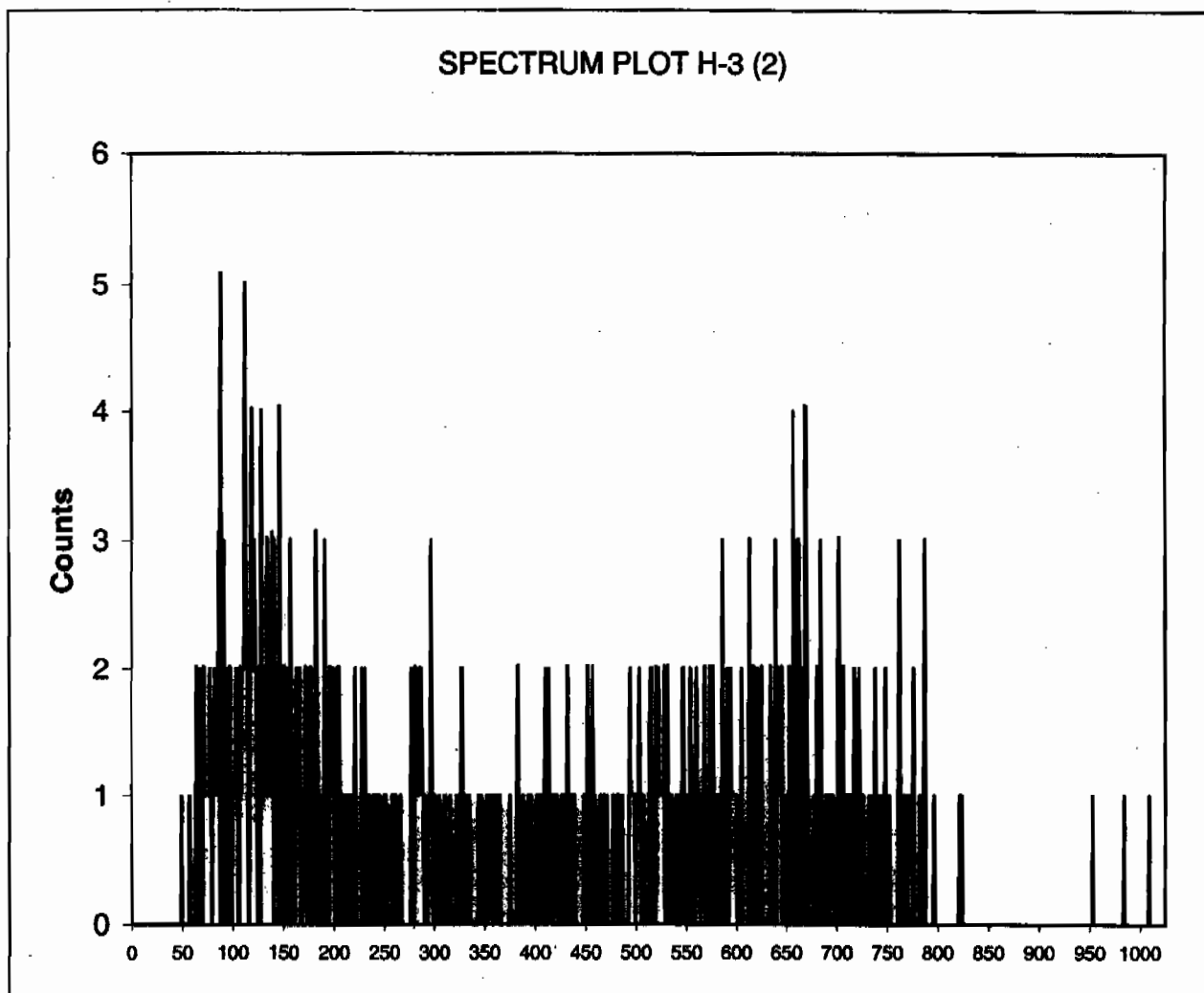
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

12, 247337006, 60.02965:
762.89
50-175

Channel Counts



32	0
33	0
34	0
35	0

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\sc\files\orange\956741A0\SQ134101N.001.xls
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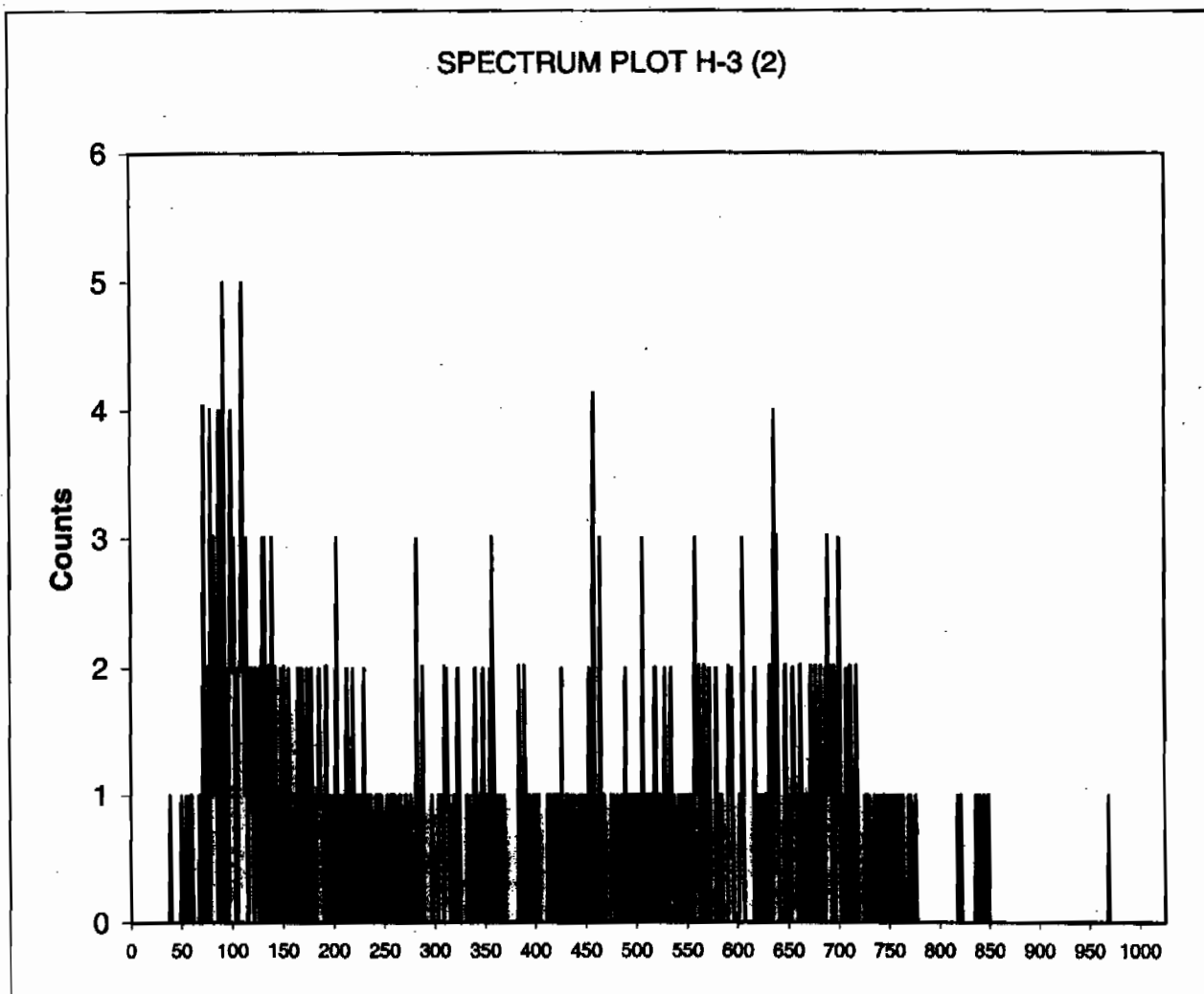
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

13, 247337007, 60.02965:
757.99
50-175

Channel Counts



32	0
33	0
34	0
35	0

Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
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s:\sc\files\orange\956741A0\U956741A0.xls

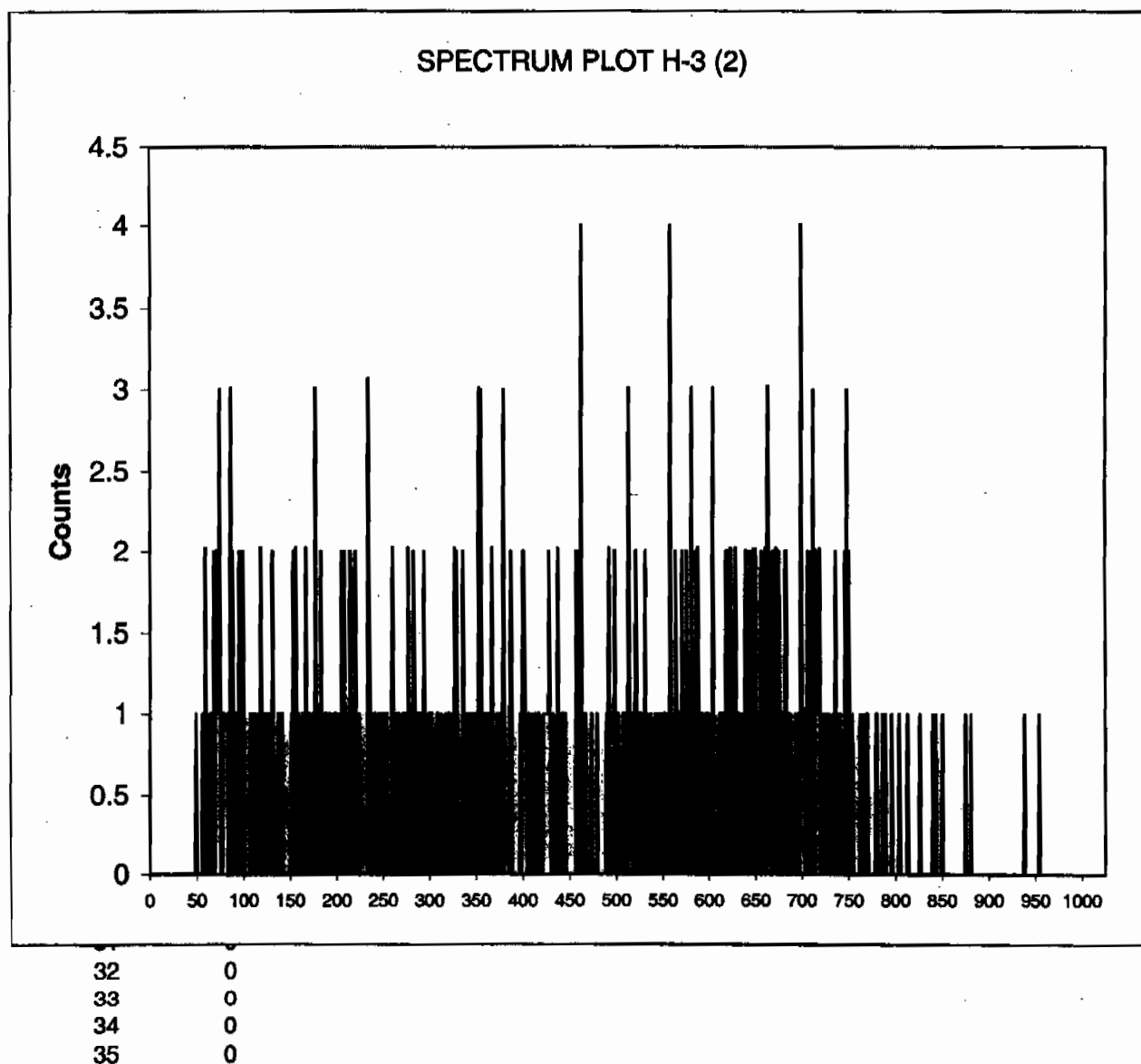
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

14, 1202051378, 60.02963:
760.97
50-175

Channel Counts



Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
s:\sc\files\orange\956741A0\SQ154301N.001.xls
s:\sc\files\orange\956741A0\U956741A0.xls

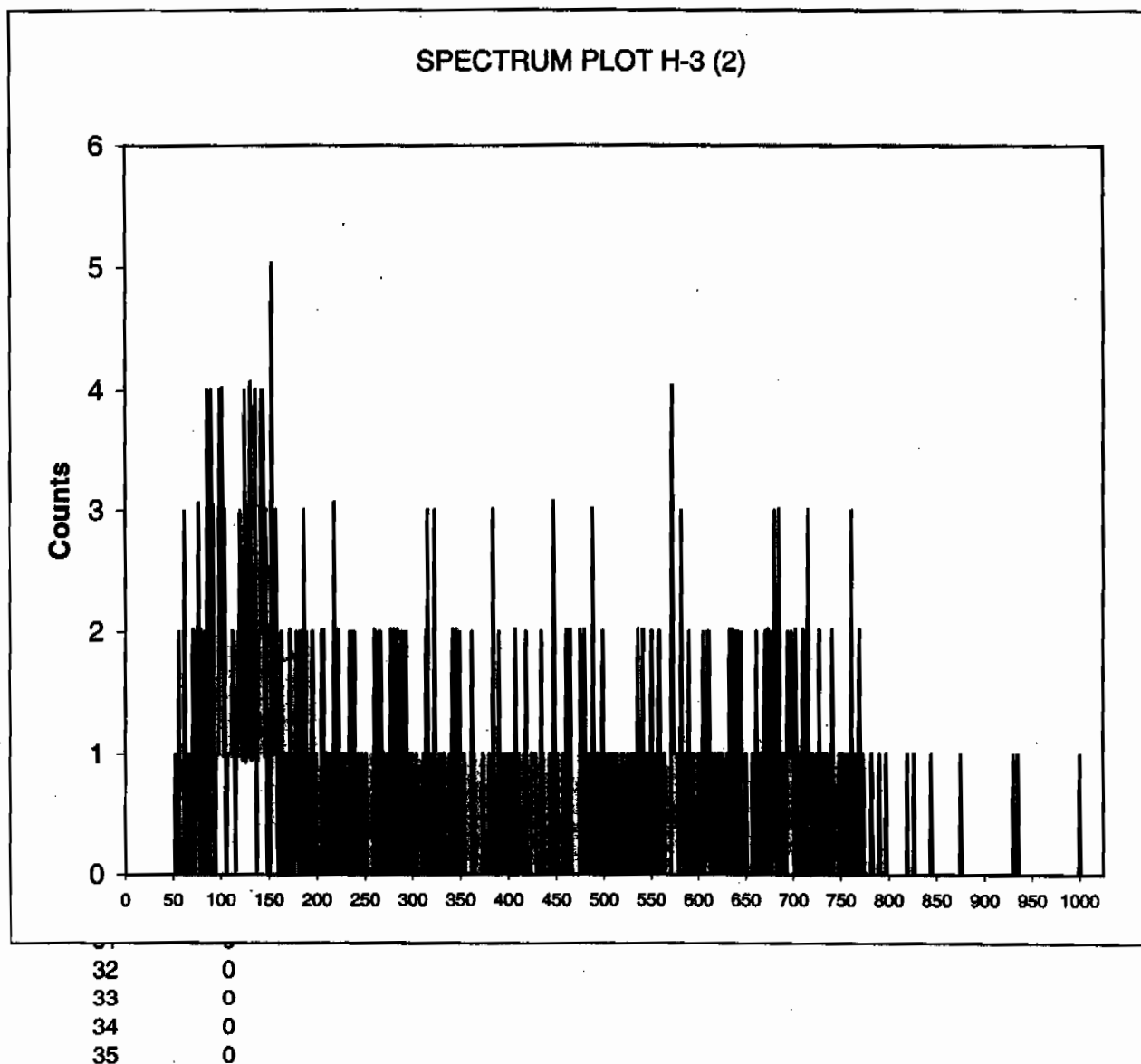
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

15, 1202051379, 60.02963:
762.59
50-175

Channel Counts



Instrument Type:
Data Capture Date:
FileName:
File Info:

Quantulus
THU 4 MAR 2010 6:09
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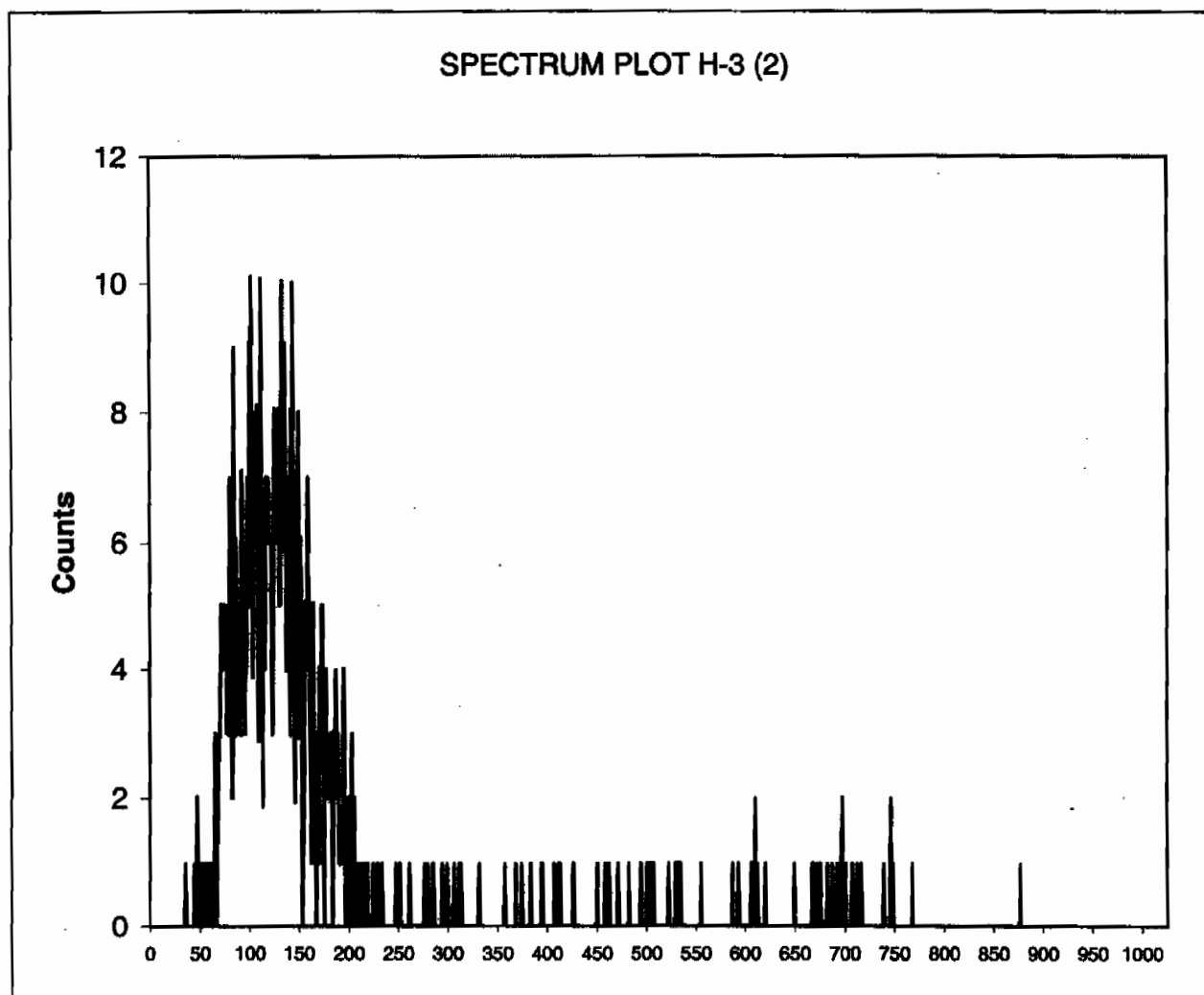
ID:
Comments:

H-3 (2)
ORANGE

Sample, Rack-Pos, Time:
Quench:
Start, End, X-Axis

16, 1202051380, 15.01297:
761.76
50-175

Channel Counts



32	0
33	0
34	0
35	1

Radiochemistry Batch Checklist, Rev10

Batch# 961331 Product: H3 Date: 3/9/10

Criteria:	Yes	No	Comments
Sample Solids are less than or equal to 100 mg for GAB.			N/A
Samples have been blank corrected (if required)			N/A
If activity less 10* MDA/ MDC, error is 150% or less of sample activity. If greater 10* MDA/ MDC, error is 40% or less. If below the MDA/ MDC, error is okay.	✓		
Instrument source check is within limits.	✓		
Instrument bkg check is within limits.	✓		
Method RDL/ LLD has been met.	✓		
If duplicate activities are less 5* MDA/ MDC, then RPD is 100% or less. If greater 5* MDA/ MDC, then RPD 20% or less. If below the MDA/ MDC, the RPD is 0%.	✓		
Or meets the client's required RER acceptance criteria.	✓		
Tracer yield is 15-125% . Carrier yield 25-125%.			N/A
Or meets the client's contract acceptance criteria.			
Method blank is less than the RDL/ LLD.	✓		
(If rad samples, < 5% of lowest activity)	✓		
Sample was run within hold time.	✓		
Sample was correctly preserved if required.	✓		
Smears Taken for Radioactive batches.			N/A
Method Spike and LCS are within 75-125% or meets the client's contract acceptance criteria.	✓		
No blank spaces on data forms.			
All line outs initialed and dated.	✓		
No transcription errors are apparent.	✓		
Aux data is correct.			N/A
Client Special requirements page has been checked.	✓		
Raw Data and/ or spectrum are included and properly statused.	✓		
QC data entered into QC database and batch is in REVW			
Hit notification complete (if necessary)	✓		
Batch entered into Case Narrative.	✓		
Batch Data Exception Reports (DER) completed, if applicable.	✓		
Batch Data Exception Reports (DER) second reviewed and disposition verified to be completed.	✓		
Aliquot Correction completed if required.			N/A
Review sample historical results if available (If REMF, results above MDC have been verified by historical results, recount or re-analysis.)	✓		

GEL Laboratories, LLC

RADchecklistrev10, revised 1/13/2010

Primary Review Performed By: [Signature] 3/9/10

Secondary Review Performed By: [Signature] 3/10/10

Tritium Que Sheet

04-MAR-10

Batch #: 961331

Analyst: KXK2

First Client Due Date 16-MAR-10

Internal Due Date: 09-MAR-10

Spike Isotope: Hydrogen-3

Spike Code: 0134-K

Expiration Date: 3/27/10

Vol: 0.1

LCS Isotope: Hydrogen-3

LCS Code: 0134-K

Expiration Date: 3/27/10

Vol: 0.1

Prep Date: 3/5/10

Initials: *YK*

Pipet ID: 2970968

Witness: *MM*

Sample ID	Client Samp ID	Type	Hazard Code	Min CRDL	Matrix	Client	Sample Date	Aliquot in vial (g/mL)	LSC Rack #	Dist Rig #	Vol added for Dist (mL)	Initial Sample Aliquot (g/mL)	Final Wt (g)	Dist Vol (mL)	LSC Rack #
247193001-1	RE15-10-8196	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-2	21	50	3.26		13	60-2
247193002-1	RE15-10-8186	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-3	56	50	3.28		13	60-3
247193003-1	RE15-10-8194	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-4	90	50	3.27		13	60-4
247193004-1	RE15-10-8189	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-5	99	50	3.25		13	60-5
247193008-1	RE15-10-8190	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-6	102	50	3.27		13	60-6
247193009-1	RE15-10-8193	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-7	109	50	3.27		13	60-7
247193010-1	RE15-10-8191	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-8	128	50	3.30		13	60-8
247193011-1	RE15-10-8192	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-9	136	50	3.29		13	60-9
247193014-1	RE15-10-8211	SAMPLE		6 pCi/g	SOIL	LANL010	10-FEB-10	10	47-10	136B	50	3.26		13	60-10
247344002-1	RE15-10-8203	SAMPLE		6 pCi/g	SOIL	LANL010	12-FEB-10	10	45-11	141	50	3.25		13	60-11
1202062033-1	MB for batch 961331	MB		6 pCi/g	SOIL	QC ACCOUNT	10-FEB-10	10	45-12	333	50	3.30		13	60-12
1202062034-1	RE15-10-8196(247193001DUP)	DUP		6 pCi/g	SOIL	QC ACCOUNT	10-FEB-10	10	45-13	304	50	3.25		13	60-13
1202062035-1	RE15-10-8196(247193001MS)	MS		6 pCi/g	SOIL	QC ACCOUNT	10-FEB-10	10	45-14	500	50	3.29		13	60-14
1202062036-1	LCS for batch 961331	LCS		6 pCi/g	SOIL	QC ACCOUNT	10-FEB-10	10	45-15	517	50	3.30		13	60-15

Bkg Rack #: 471 60-1
Bkg prepared with dead water: Yes/No

Comments:

Instrument Used (circle as appropriate): *(LS6000 (Red) 7065155) LS6500 (Blue) 7067083) LS6500 (Gold) 7070506, LS6500 (Green) 7067404, Wallac (Yellow) 4140127, LS6000 (Brown) 7060655, Wallac (Pink) 2200082, Wallac (White) 4140299, Purple 7069123, Silver 7060656, Orange DG06095168*

Bkg prepared with dead water: Yes/No

Calibration Used: *Ecocint Ultra (10 mL sample/13 mL Ecocint Ultra)*
Data Reviewed By: *[Signature]*

GEL Laboratories LLC, Radiochemistry Division

Page 1 of 1

T861331r1

Tritium Solid

Filename : H3DST.XLS
File type : Excel
Version # : 1.2.5

Batch : 961331
Analyst : KKK2
Prep Date : 3/5/2010

Spike S/N : 0134-K
Spike Exp Date : 3/27/2010
Spike Activity (dpm/ml): 2459.85
Spike Volume Added: 0.10

LCS S/N : 0134-K
LCS Exp Date : 3/27/2010
LCS Activity (dpm/ml): 2459.85
LCS Volume Added: 0.10

H-3 Abundance : 1
Method Uncertainty : 0.1155

Geometry: 10mL DW/13mL Ecocint
Ultra

Procedure Code : LSCDSH3S
Paramname : Tritium
Required MDC : 6 pCi/g
Half-life of Tritium : 12.32 years

Pipet, 0.1 ml Stdev : +/- 0.000701 ml
Pipet, 0.5 ml Stdev : +/- 0.002564 ml
Pipet, 1.0 ml Stdev : +/- 0.005480 ml
Pipet, 5.0 ml Stdev : +/- 0.025729 ml

Sample Characteristics			Total Sample Volume (L)		Sample Aliquot G		Sample Aliquot StDev. G		Distilled Sample Counted L		Sample Counted StDev. L		Rig number		Sample Date/Time	
Pos.	Sample ID															
1	247193001.1		0.0500		3.2600		3.5572E-03		0.0100		2.5729E-05		21		2/10/2010 12:00	
2	247193002.1		0.0500		3.2800		3.5593E-03		0.0100		2.5729E-05		56		2/10/2010 12:00	
3	247193003.1		0.0500		3.2700		3.5582E-03		0.0100		2.5729E-05		90		2/10/2010 12:00	
4	247193004.1		0.0500		3.2500		3.5562E-03		0.0100		2.5729E-05		99		2/10/2010 12:00	
5	247193008.1		0.0500		3.2700		3.5582E-03		0.0100		2.5729E-05		102		2/10/2010 12:00	
6	247193009.1		0.0500		3.2700		3.5582E-03		0.0100		2.5729E-05		108		2/10/2010 12:00	
7	247193010.1		0.0500		3.3000		3.5613E-03		0.0100		2.5729E-05		128		2/10/2010 12:00	
8	247193011.1		0.0500		3.2900		3.5603E-03		0.0100		2.5729E-05		136		2/10/2010 12:00	
9	247193014.1		0.0500		3.2600		3.5572E-03		0.0100		2.5729E-05		136B		2/10/2010 12:00	
10	247344002.1		0.0500		3.2500		3.5562E-03		0.0100		2.5729E-05		141		2/12/2010 12:00	
11	1202062033.1		0.0500		3.3000		3.5613E-03		0.0100		2.5729E-05		333		3/5/2010 0:00	
12	1202062034.1		0.0500		3.2500		3.5562E-03		0.0100		2.5729E-05		304		2/10/2010 12:00	
13	1202062035.1		0.0500		3.2900		3.5603E-03		0.0100		2.5729E-05		500		2/10/2010 12:00	
14	1202062036.1		0.0500		3.3000		3.5613E-03		0.0100		2.5729E-05		517		3/5/2010 0:00	

Count raw Data			Background				Calibration Data				Backgrounds				
Pos.	Rack Position #	Counting Time (min.)	Quench#	Gross cpm	cpm	Count Time (min.)	Count Start Date/Time	Sample Decay	Counted on	Calibration Date	Calibration Due Date	Detector Efficiency (cpm/dpm)	Detector Error (cpm/dpm)	Rack Position #	Count Start Date/Time
1	60-2	45	114.6	3.24	2.87	45	3/8/2010 16:03	0.996	LSCRED	8/21/2009	8/31/2010	0.2078	0.00792	60-1	3/8/2010 15:16
2	60-3	45	113.8	3.38	2.87	45	3/8/2010 16:50	0.996	LSCRED	8/21/2009	8/31/2010	0.2082	0.00792	60-1	3/8/2010 15:16
3	60-4	45	115.5	3.16	2.87	45	3/8/2010 17:38	0.996	LSCRED	8/21/2009	8/31/2010	0.2075	0.00792	60-1	3/8/2010 15:16
4	60-5	45	114.3	14.42	2.87	45	3/8/2010 18:25	0.996	LSCRED	8/21/2009	8/31/2010	0.2080	0.00792	60-1	3/8/2010 15:16
5	60-6	45	114.7	41.11	2.87	45	3/8/2010 19:12	0.996	LSCRED	8/21/2009	8/31/2010	0.2079	0.00792	60-1	3/8/2010 15:16
6	60-7	45	114.3	2.89	2.87	45	3/8/2010 19:59	0.996	LSCRED	8/21/2009	8/31/2010	0.2080	0.00792	60-1	3/8/2010 15:16
7	60-8	45	113.3	7.33	2.87	45	3/8/2010 20:46	0.996	LSCRED	8/21/2009	8/31/2010	0.2084	0.00792	60-1	3/8/2010 15:16
8	60-9	45	115.3	4.04	2.87	45	3/8/2010 21:59	0.996	LSCRED	8/21/2009	8/31/2010	0.2076	0.00792	60-1	3/8/2010 15:16
9	60-10	45	114.5	3.13	2.87	45	3/8/2010 22:46	0.996	LSCRED	8/21/2009	8/31/2010	0.2080	0.00792	60-1	3/8/2010 15:16
10	60-11	45	114.6	4.67	2.87	45	3/8/2010 23:33	0.996	LSCRED	8/21/2009	8/31/2010	0.2079	0.00792	60-1	3/8/2010 15:16
11	60-12	45	113.8	2.96	2.87	45	3/9/2010 0:20	0.999	LSCRED	8/21/2009	8/31/2010	0.2082	0.00792	60-1	3/8/2010 15:16
12	1-1	45	114.2	3.58	2.87	45	3/9/2010 1:08	0.996	LSCRED	8/21/2009	8/31/2010	0.2081	0.00792	60-1	3/8/2010 15:16
13	5-1	15	114.3	12.73	2.87	45	3/9/2010 1:55	0.996	LSCRED	8/21/2009	8/31/2010	0.2080	0.00792	60-1	3/8/2010 15:16
14	5-2	15	114.6	13.6	2.87	45	3/9/2010 2:11	0.999	LSCRED	8/21/2009	8/31/2010	0.2078	0.00792	60-1	3/8/2010 15:16

Notes:

- 1 - Results are decay corrected to Sample Date/Time
 2 - Reference date for Spike Activity (dpm/ml) is the batch Prep Date
 3 - Spike Nominals are decay corrected to Sample Date/Time

* - RPD changed to 0% due to activity below MDC for 1202062034.1

Results		Decision		Critical Level		Required MDC		Sample Act. MDC		Sample Act. Conc.		Sample Act. Error		Net Count Rate		Net Count Rate		1 SIGMA Counting Error		1 SIGMA Counting Uncertainty		1 SIGMA Total Prop. Uncertainty		Sample QC		Sample Type		RPD		RER		Nominal pCi/g		Recovery	
Pos.	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	CPM	CPM	CPM	CPM	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	QC	Type	RPD	RER	pCi/g	pCi/g	pCi/g	pCi/g				
1	2.7763	1.9601	6	4.1427	1.2344	0.9659	0.3700	0.3685	1.2294	1.2377	SAMPLE																								
2	2.7550	1.9451	6	4.1108	1.6885	0.7308	0.5100	0.3727	1.2338	1.2492	SAMPLE																								
3	2.7732	1.9579	6	4.1360	0.9665	1.2623	0.2900	0.3661	1.2189	1.2251	SAMPLE																								
4	2.7832	1.9650	6	4.1529	38.6300	0.0544	11.5500	0.6199	2.0732	4.9316	SAMPLE																								
5	2.7685	1.9546	6	4.1309	127.2198	0.0273	38.2400	0.9886	3.2890	15.0689	SAMPLE																								
6	2.7682	1.9530	6	4.1276	0.0665	17.8885	0.0200	0.3578	1.1893	1.1893	SAMPLE																								
7	2.7358	1.9315	6	4.0822	14.8629	0.1071	4.4600	0.4761	1.5552	2.3097	SAMPLE																								
8	2.7552	1.9452	6	4.1112	3.8738	0.3350	1.1700	0.3919	1.2974	1.3728	SAMPLE																								
9	2.7759	1.9598	6	4.1420	0.8673	1.4044	0.2600	0.3651	1.2181	1.2222	SAMPLE																								
10	2.7842	1.9656	6	4.1543	6.0223	0.2276	1.8000	0.4083	1.3695	1.5369	SAMPLE																								
11	2.7290	1.9267	6	4.0720	0.2951	3.9993	0.0900	0.3599	1.1804	1.1809	SAMPLE																								
12	2.7828	1.9647	6	4.1523	2.3743	0.5333	0.7100	0.3786	1.2660	1.2956	247193001.1	DUP	0.0%	0.2250																					
13	3.8884	2.7452	6	6.1513	32.5782	0.0973	9.8600	0.9552	3.1561	4.9185	247193001.1	MS																							
14	3.8656	2.7291	6	6.1152	35.2447	0.0922	10.7300	0.9851	3.2358	5.2093	LCS																								

ID: TRITIUM

8 MAR 2010 15:26

USER: 2

COMMENT: RED

PRESET TIME : 45.00

DATA CALC :	CPM	H# :	YES	SAMPLE REPEATS:	1	PRINTER	:EDIT
COUNT BLANK :	NO	IC# :	NO	REPLICATES :	1	RS232	:EDIT
TWO PHASE :	NO	ADC :	NO	CYCLE REPEATS :	1	DISK	: OFF
SCINTILLATOR:	LIQUID	LUMEX:	YES	LOW SAMPLE REJ:	0		
LOW LEVEL :	NO	HALF LIFE CORRECTION DATE:				none	

CHAN: 65.0 - 225.0 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

CHAN: 0.0 - 990.0 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

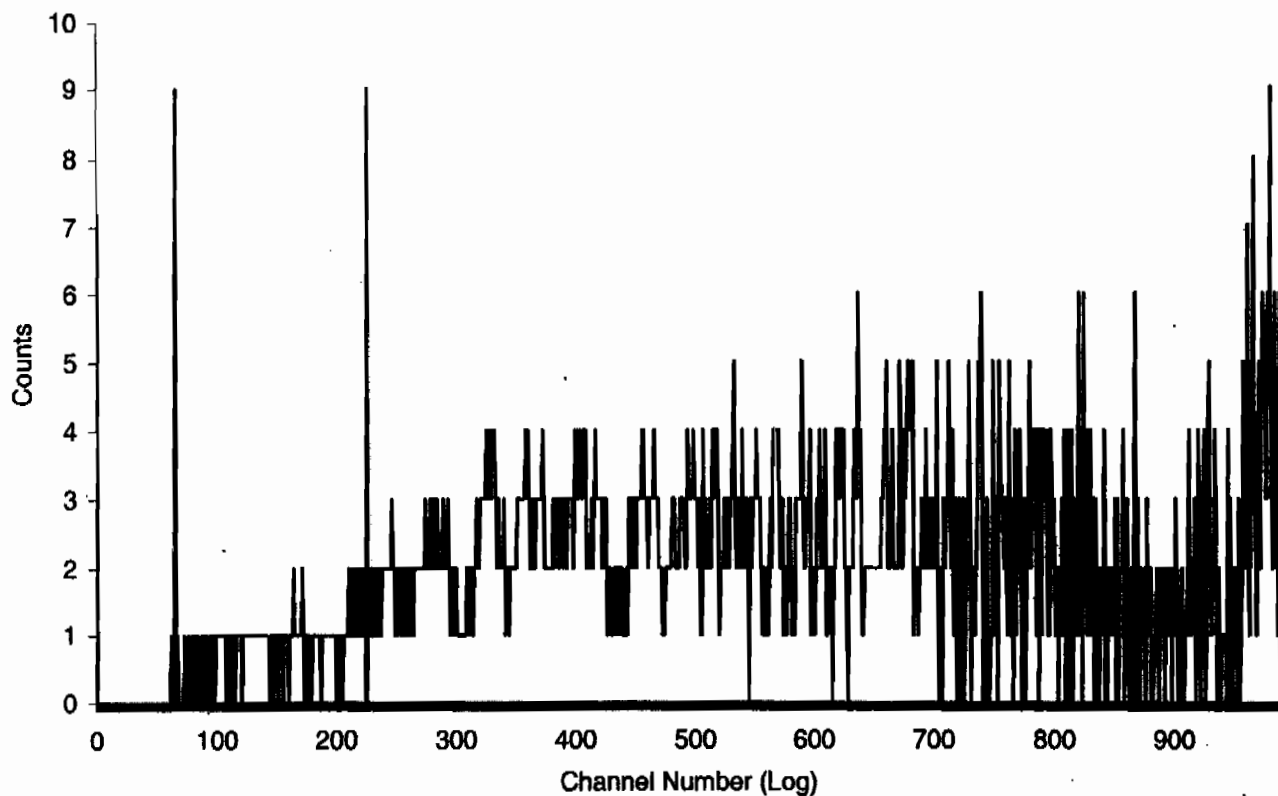
ALPHA-BETA DISCRIMINATION: NO

SAM NO	POS	TIME MIN	H#	WIND1		WIND2		LUMEX %	ELAPSED TIME
				CPM	%ERROR	CPM	%ERROR		
Bkg 1	60-1	45.00	114.6	2.87	19.30	42.60	4.60	1.32	46.57
2	60-2	45.00	114.6	3.24	17.65	41.00	4.68	1.09	93.66
3	60-3	45.00	113.8	3.38	17.46	43.56	4.55	1.19	140.78
4	60-4	45.00	115.5	3.16	18.20	43.38	4.56	1.27	187.90
5	60-5	45.00	114.3	14.42	8.00	58.87	3.90	0.99	235.01
6	60-6	45.00	114.7	41.11	4.68	97.53	3.03	0.58	282.13
7	60-7	45.00	114.3	2.89	19.03	42.27	4.61	1.16	329.33
8	60-8	45.00	113.3	7.33	11.39	49.98	4.24	1.03	376.43
9	60-9	SAMPLE TERMINATED:							

Sample Count Start Time:	8 Mar 2010 15:16:40		
Data Capture Date	08 Mar 2010 16:02:07		
User Filename	S02030860-1A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	1	60-1	45.00
H#, Total Counts:	114.6	2291	
Win1: Tritium - Start, End, Counts:	65	225	131
Win2: - Start, End, Counts:	0	990	1921

SPECTRUM PLOT

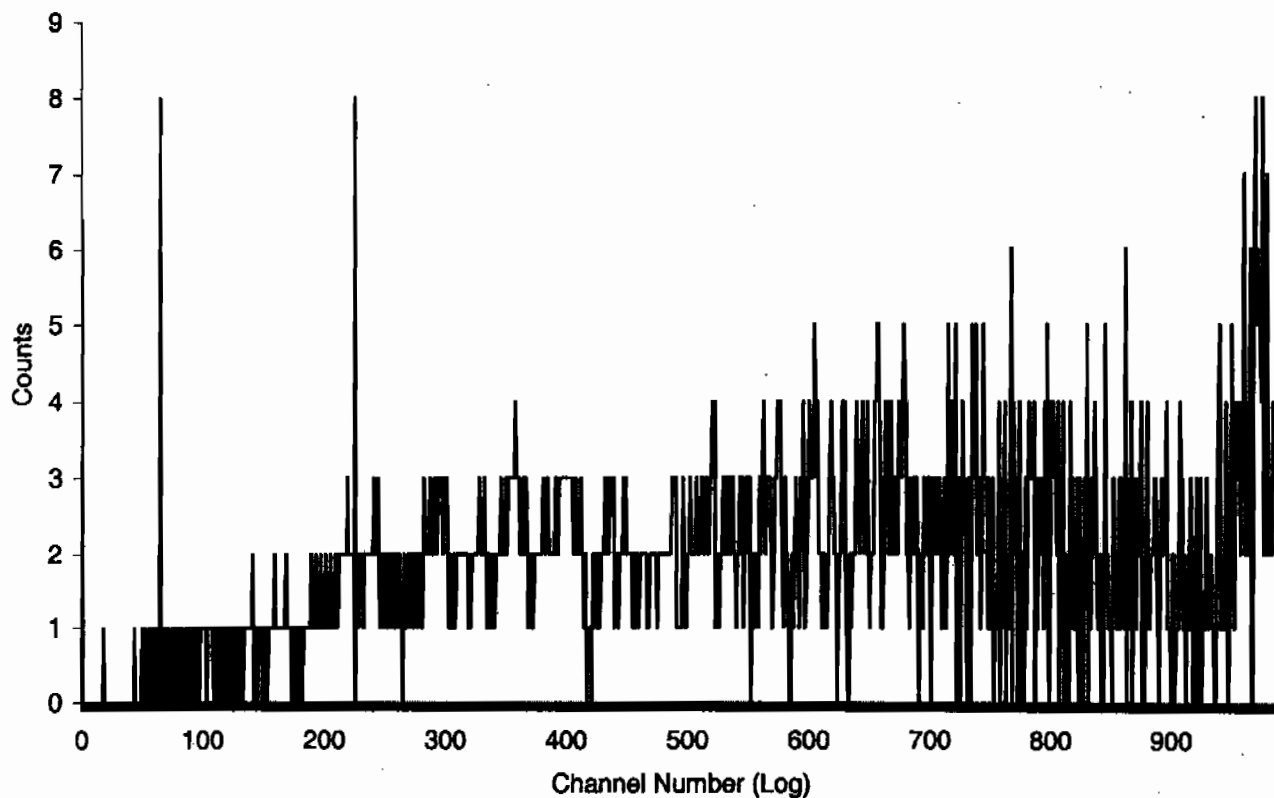
USER 02 - TRITIUM



Sample Count Start Time:	8 Mar 2010 16:03:46		
Data Capture Date	08 Mar 2010 16:48:12		
User Filename	S02030860-2A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	2	60-2	45.00
H#, Total Counts:	114.6	2150	
Win1: Tritium - Start, End, Counts:	65	225	148
Win2: - Start, End, Counts:	0	990	1850

SPECTRUM PLOT

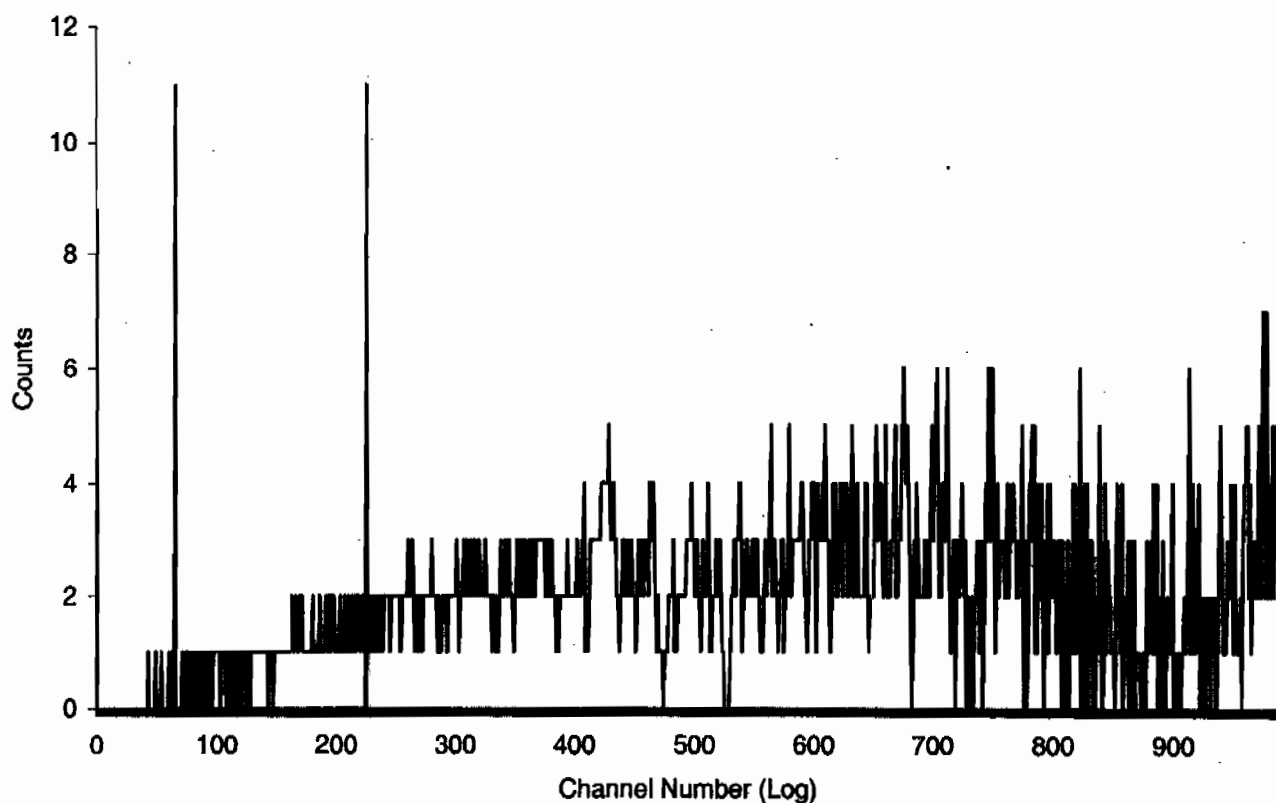
USER 02 - TRITIUM



Sample Count Start Time:	8 Mar 2010 16:50:53		
Data Capture Date	08 Mar 2010 17:35:29		
User Filename	S02030860-3A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	3	60-3	45.00
H#, Total Counts:	113.8	2356	
Win1: Tritium - Start, End, Counts:	65	225	152
Win2: - Start, End, Counts:	0	990	1963

SPECTRUM PLOT

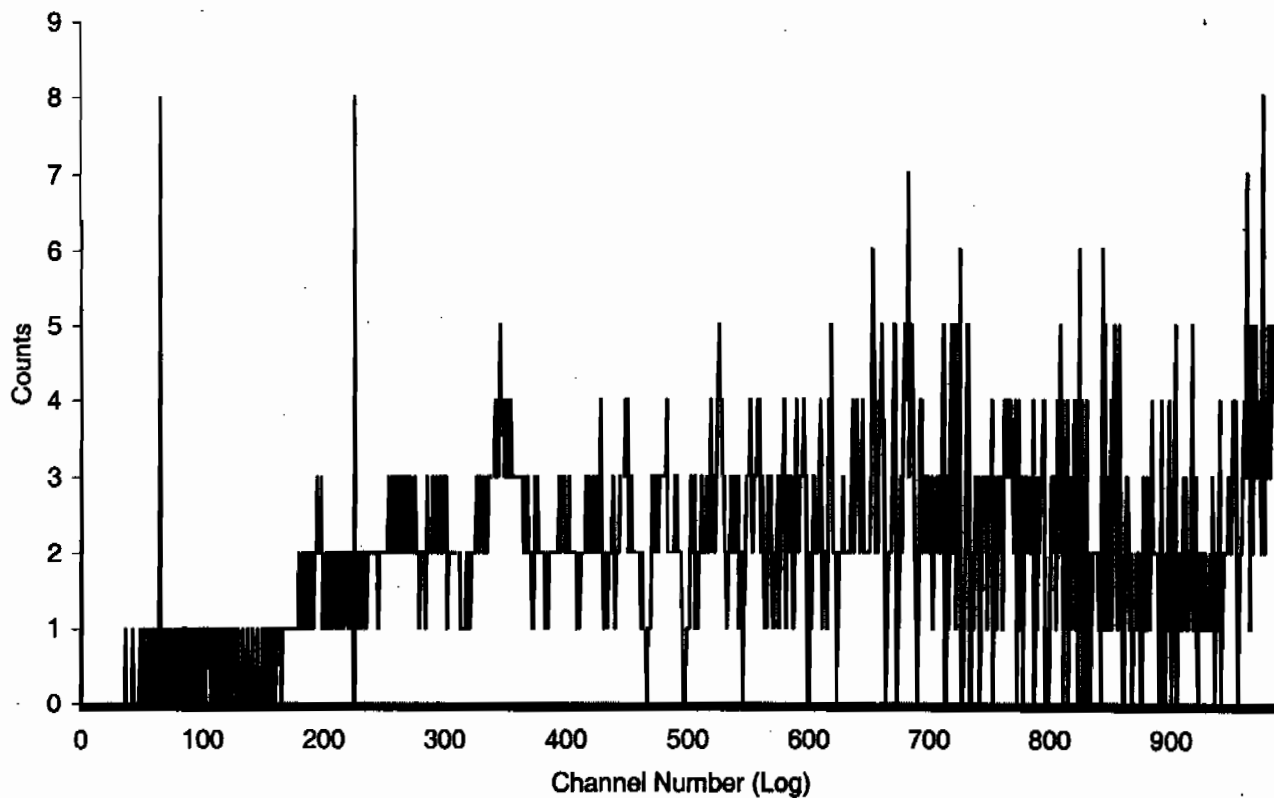
USER 02 - TRITIUM



Sample Count Start Time:	8 Mar 2010 17:38:00		
Data Capture Date	08 Mar 2010 18:22:26		
User Filename	S02030860-4A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	4	60-4	45.00
H#, Total Counts:	115.5	1972	
Win1: Tritium - Start, End, Counts:	65	225	142
Win2: - Start, End, Counts:	0	990	1954

SPECTRUM PLOT

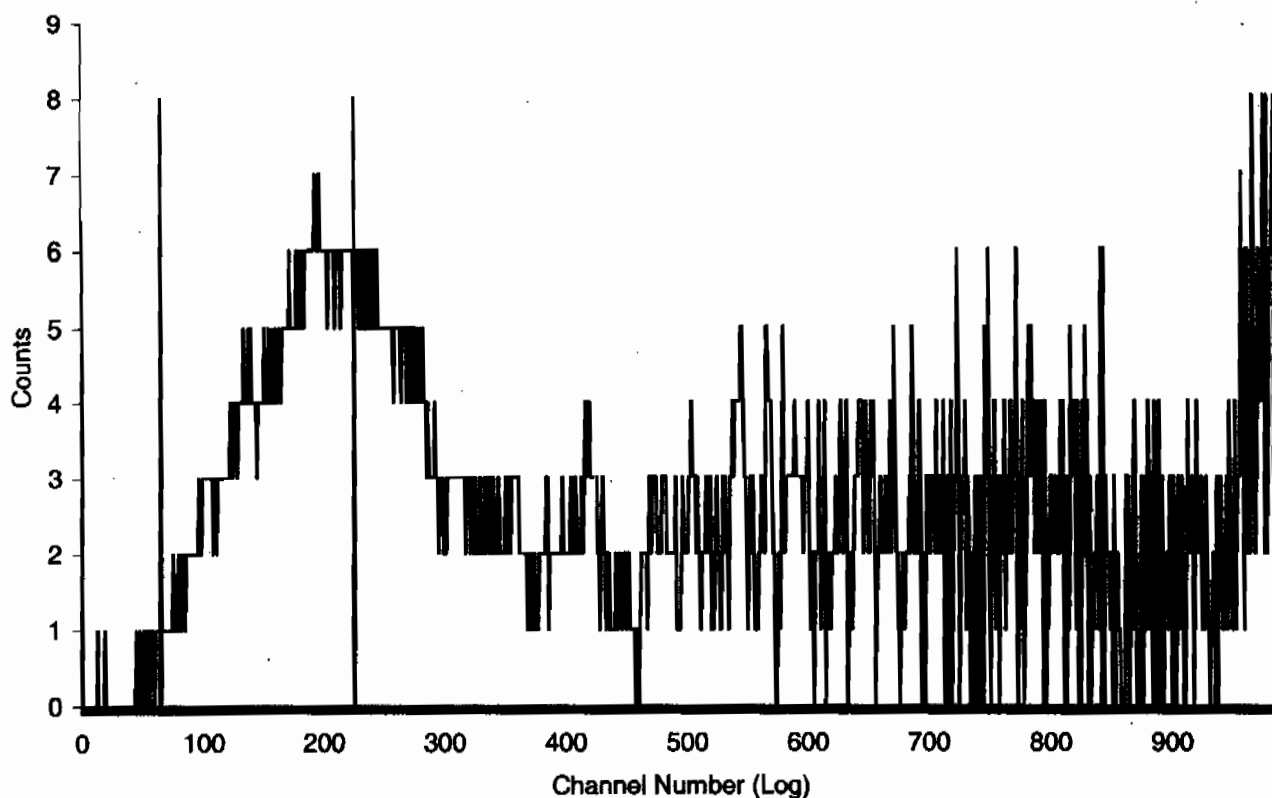
USER 02 - TRITIUM



Sample Count Start Time:	8 Mar 2010 18:25:07		
Data Capture Date	08 Mar 2010 19:09:34		
User Filename	S02030860-5A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	5	60-5	45.00
H#, Total Counts:	114.3	3067	
Win1: Tritium - Start, End, Counts:	65	225	654
Win2: - Start, End, Counts:	0	990	2655

SPECTRUM PLOT

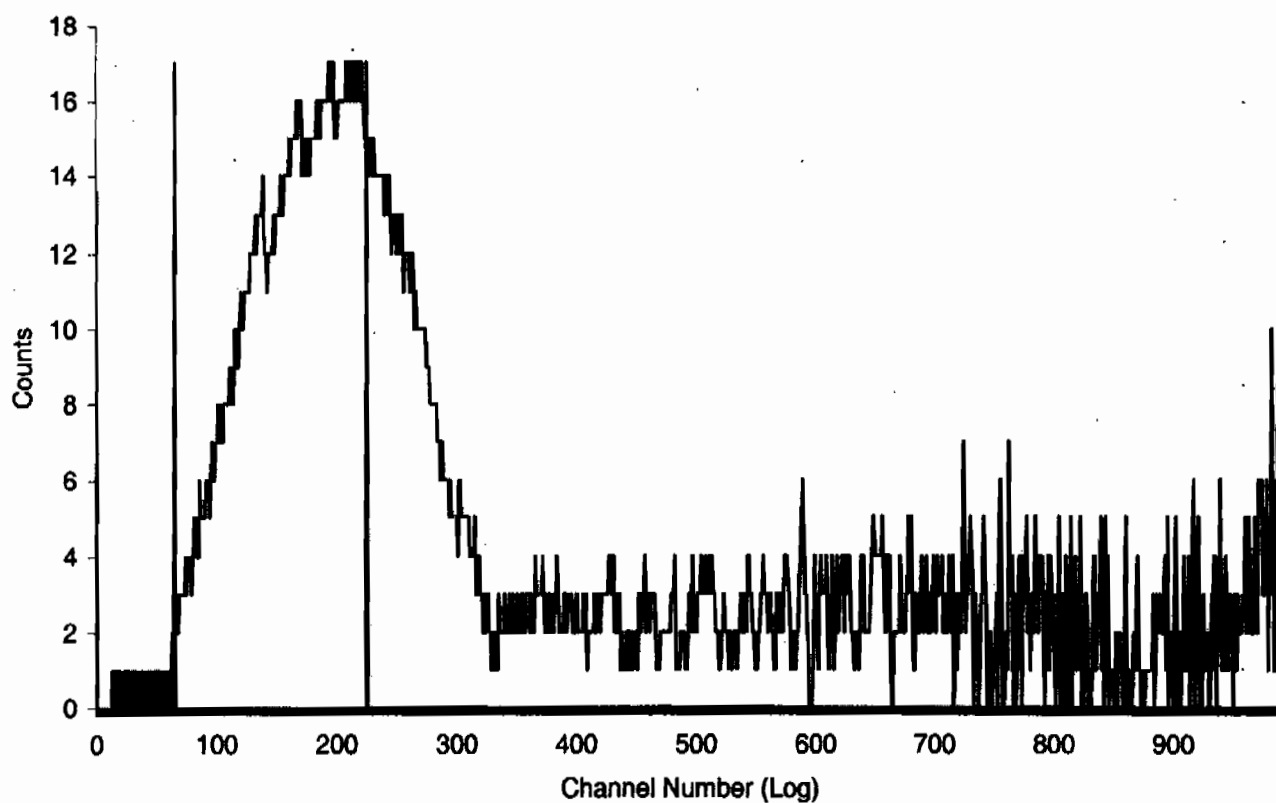
USER 02 - TRITIUM



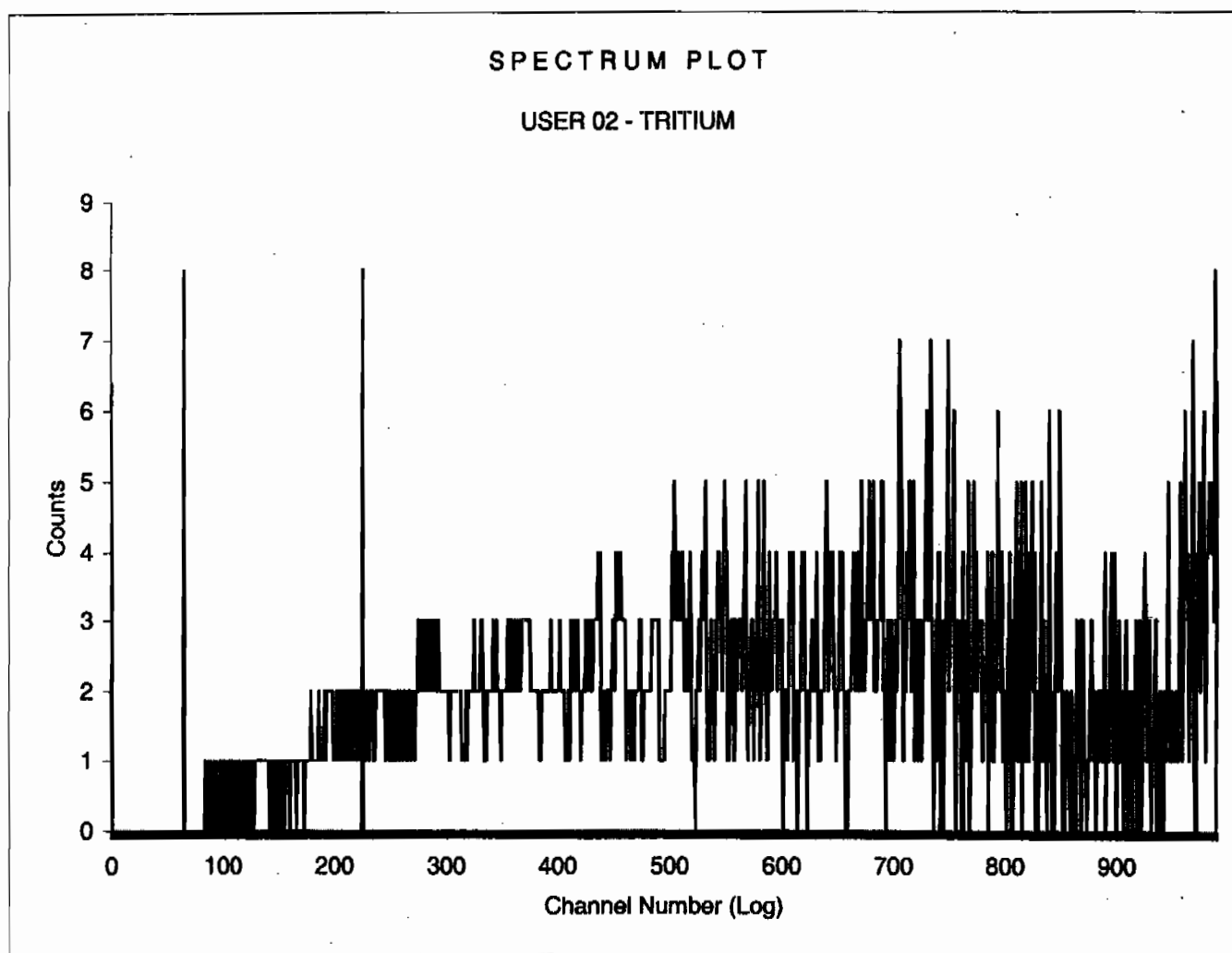
Sample Count Start Time:	8 Mar 2010 19:12:14		
Data Capture Date	08 Mar 2010 19:56:40		
User Filename	S02030860-6A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	6	60-6	45.00
H#, Total Counts:	114.7	4811	
Win1: Tritium - Start, End, Counts:	65	225	1863
Win2: - Start, End, Counts:	0	990	4396

SPECTRUM PLOT

USER 02 - TRITIUM



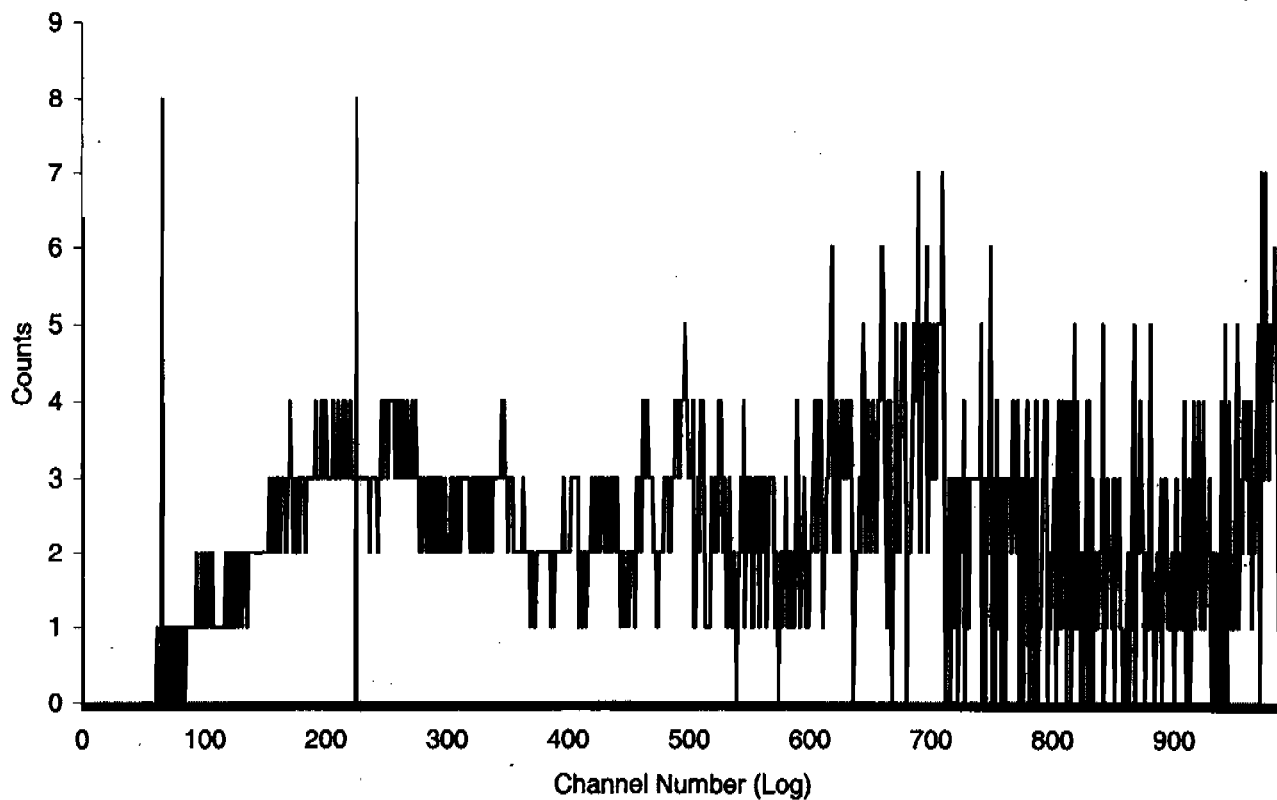
Sample Count Start Time:	8 Mar 2010 19:59:26		
Data Capture Date	08 Mar 2010 20:43:51		
User Filename	S02030860-7A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	7	60-7	45.00
H#, Total Counts:	114.3	2334	
Win1: Tritium - Start, End, Counts:	65	225	132
Win2: - Start, End, Counts:	0	990	1904



Sample Count Start Time:	8 Mar 2010 20:46:32		
Data Capture Date	08 Mar 2010 21:30:58		
User Filename	S02030860-8A.XLS		
	U02030860-1A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	8	60-8	45.00
H#, Total Counts:	113.3	2569	
Win1: Tritium - Start, End, Counts:	65	225	333
Win2: - Start, End, Counts:	0	990	2253

SPECTRUM PLOT

USER 02 - TRITIUM



ID: TRITIUM

8 MAR 2010 22:10

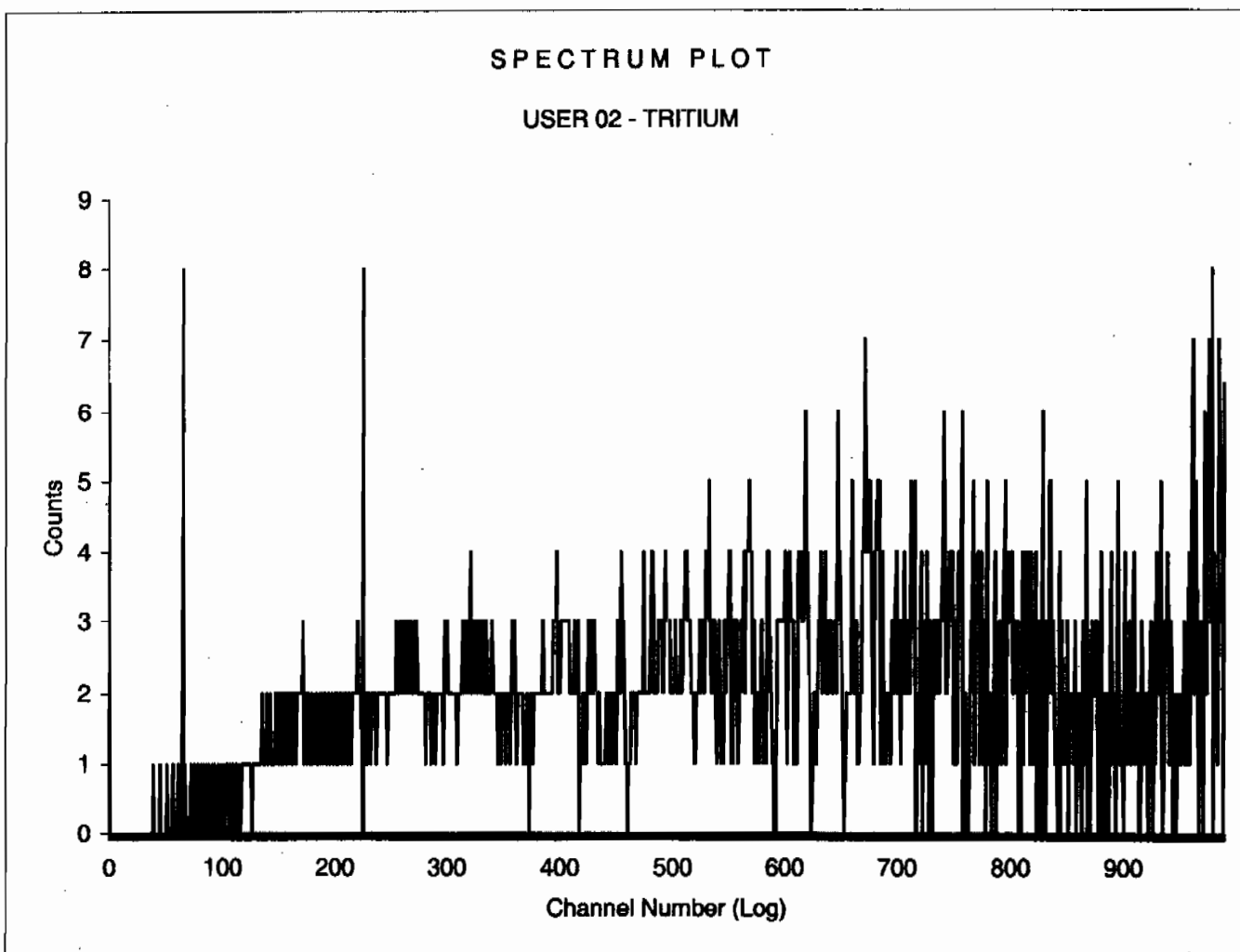
USER: 2 COMMENT: RED
 PRESET TIME : 45.00
 DATA CALC : CPM H# : YES SAMPLE REPEATS: 1 PRINTER : EDIT
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : EDIT
 TWO PHASE : NO ADC : NO CYCLE REPEATS : 1 DISK : OFF
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

CHAN: 65.0 - 225.0 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0
 CHAN: 0.0 - 990.0 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

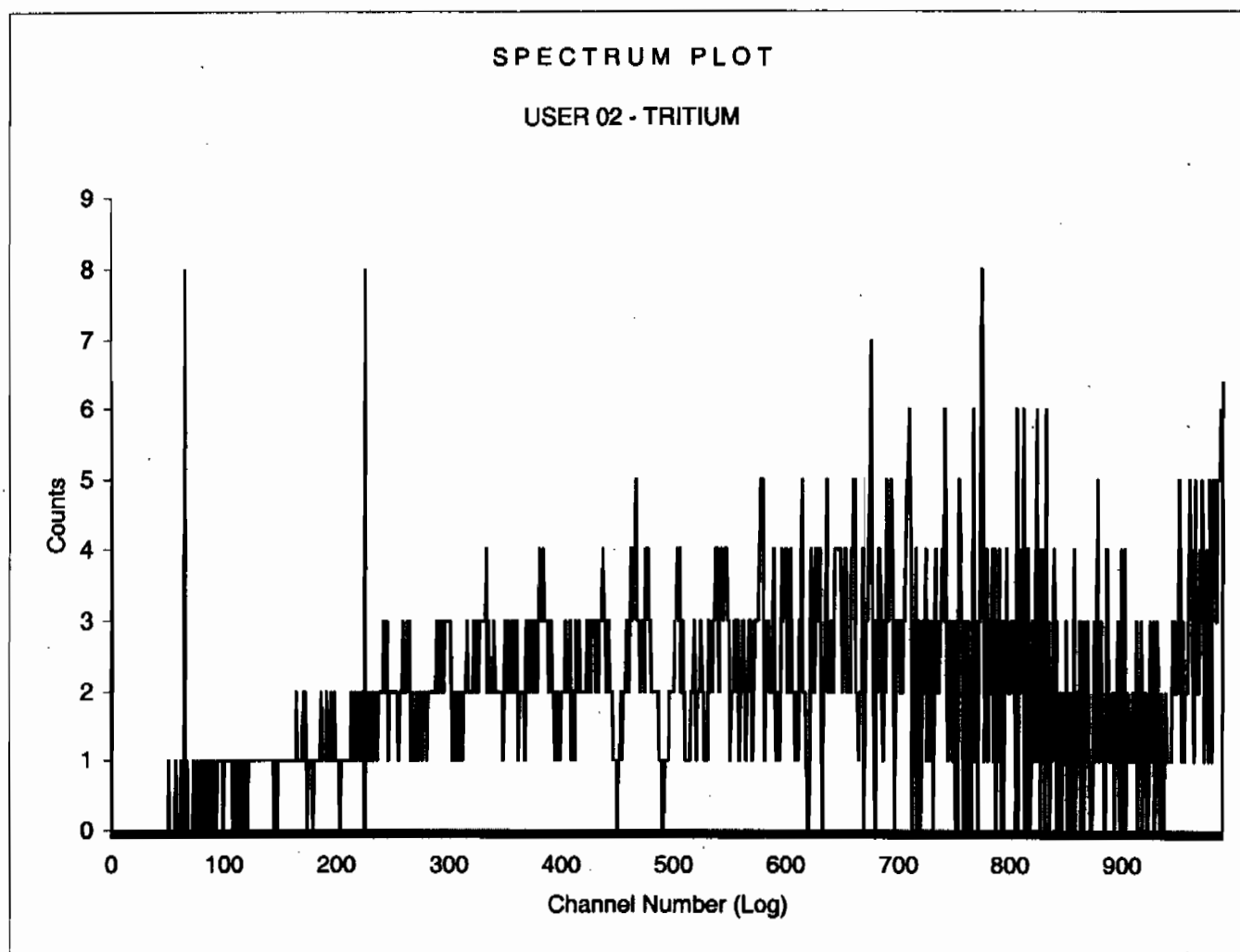
ALPHA-BETA DISCRIMINATION: NO

SAM NO	POS	TIME MIN	H#	WIND1		WIND2		LUMEX %	ELAPSED TIME	
				CPM	%ERROR	CPM	%ERROR			
MISSING SAMPLE										
8	9	60-9	45.00	115.3	4.04	15.62	43.20	4.56	1.04	46.77
9	10	60-10	45.00	114.5	3.13	17.94	42.40	4.60	0.99	93.85
10	11	60-11	45.00	114.6	4.67	14.35	45.47	4.44	0.88	140.93
11	12	60-12	45.00	113.8	2.96	18.48	42.11	4.62	0.91	187.99
12	13	1-1	45.00	114.2	3.58	16.62	43.73	4.53	0.93	235.18

Sample Count Start Time:	8 Mar 2010 21:59:35		
Data Capture Date	08 Mar 2010 22:45:02		
User Filename	S02030860-9A.XLS		
	U02030860-9A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	9	60-9	45.00
H#, Total Counts:	115.3	2335	
Win1: Tritium - Start, End, Counts:	65	225	183
Win2: - Start, End, Counts:	0	990	1950



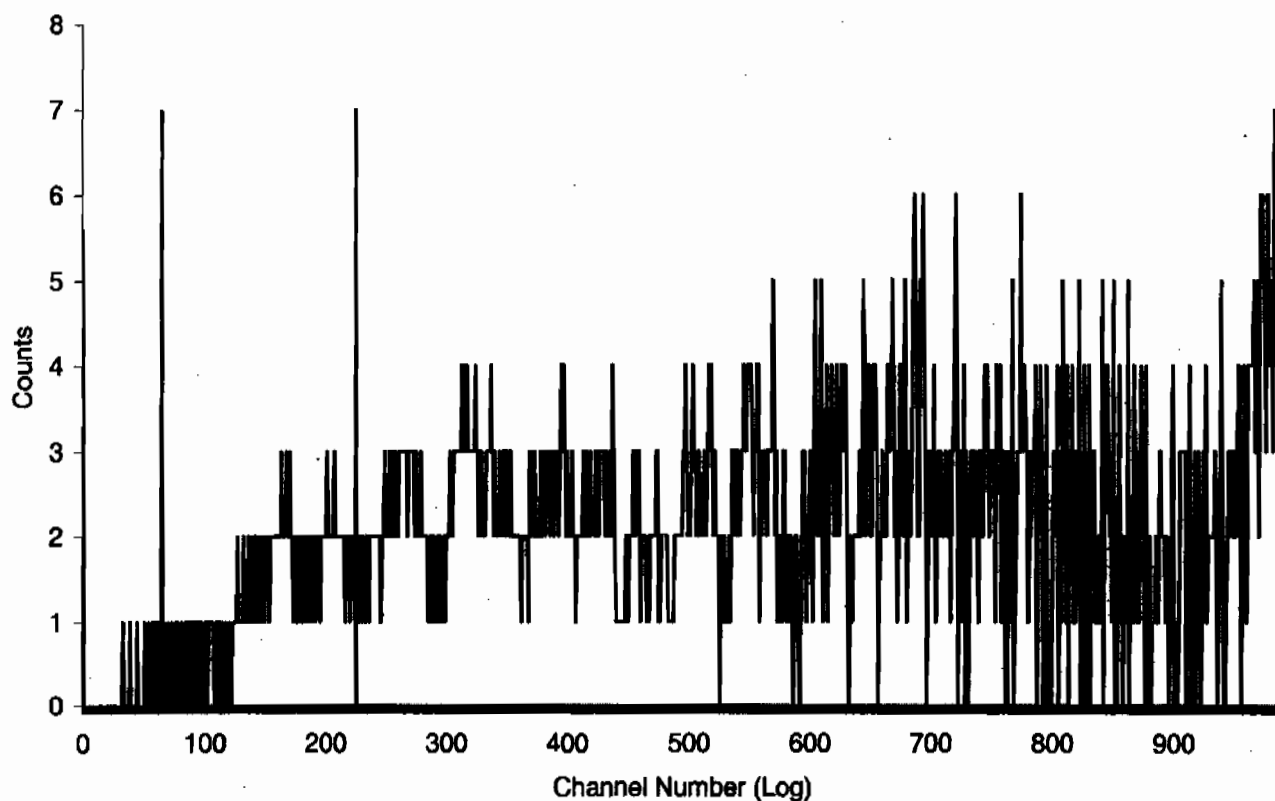
Sample Count Start Time:	8 Mar 2010 22:46:40		
Data Capture Date	08 Mar 2010 23:32:07		
User Filename	S02030860-10A.XLS		
	U02030860-9A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator:	LIQUID		
Sample, Rack-Pos, Time:	10	60-10	45.00
H#, Total Counts:	114.5	2303	
Win1: Tritium - Start, End, Counts:	65	225	143
Win2: - Start, End, Counts:	0	990	1917



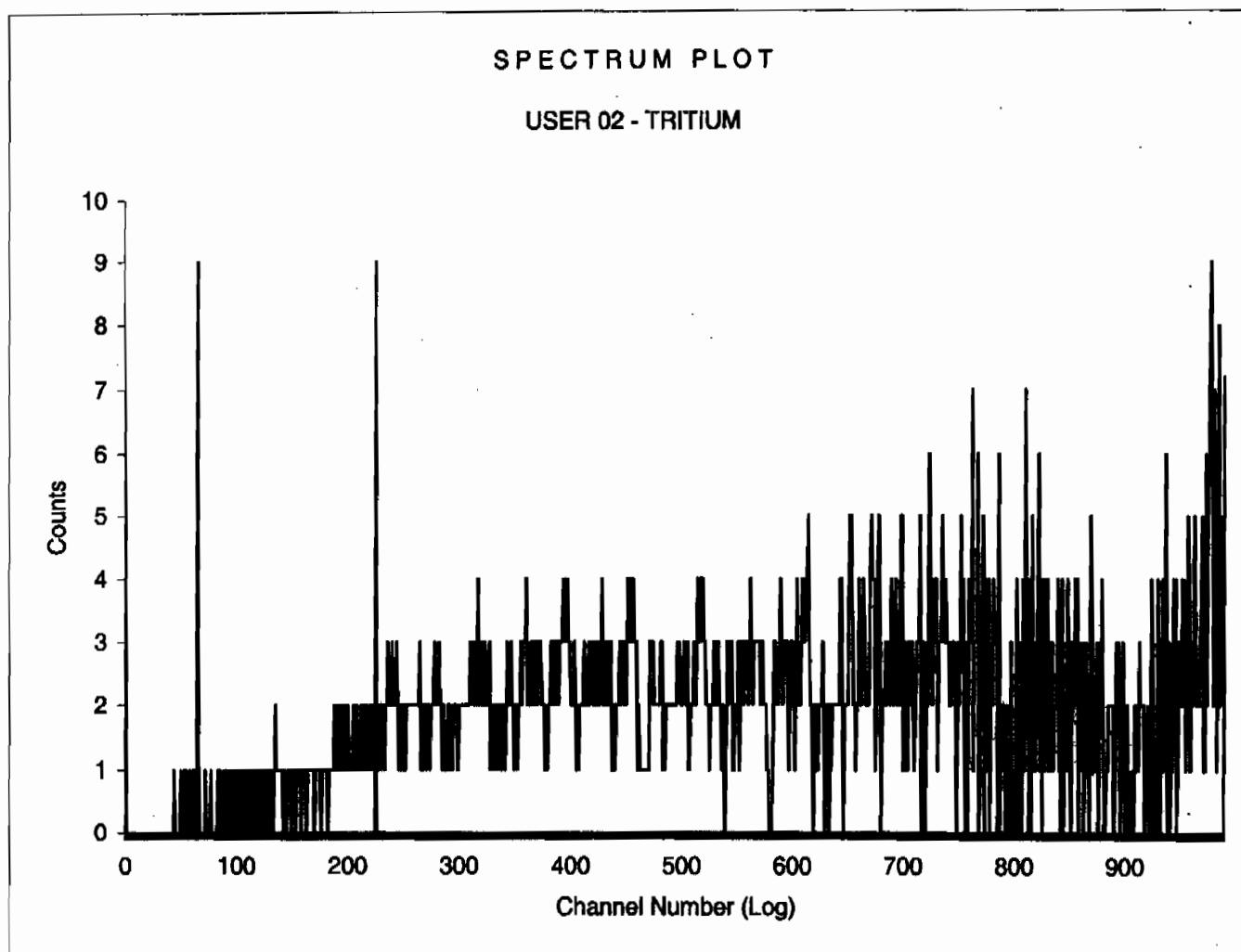
Sample Count Start Time:	8 Mar 2010 23:33:45		
Data Capture Date	09 Mar 2010 00:19:11		
User Filename	S02030960-11A.XLS		
	U02030860-9A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	11	60-11	45.00
H#, Total Counts:	114.6	2384	
Win1: Tritium - Start, End, Counts:	65	225	211
Win2: - Start, End, Counts:	0	990	2047

SPECTRUM PLOT

USER 02 - TRITIUM



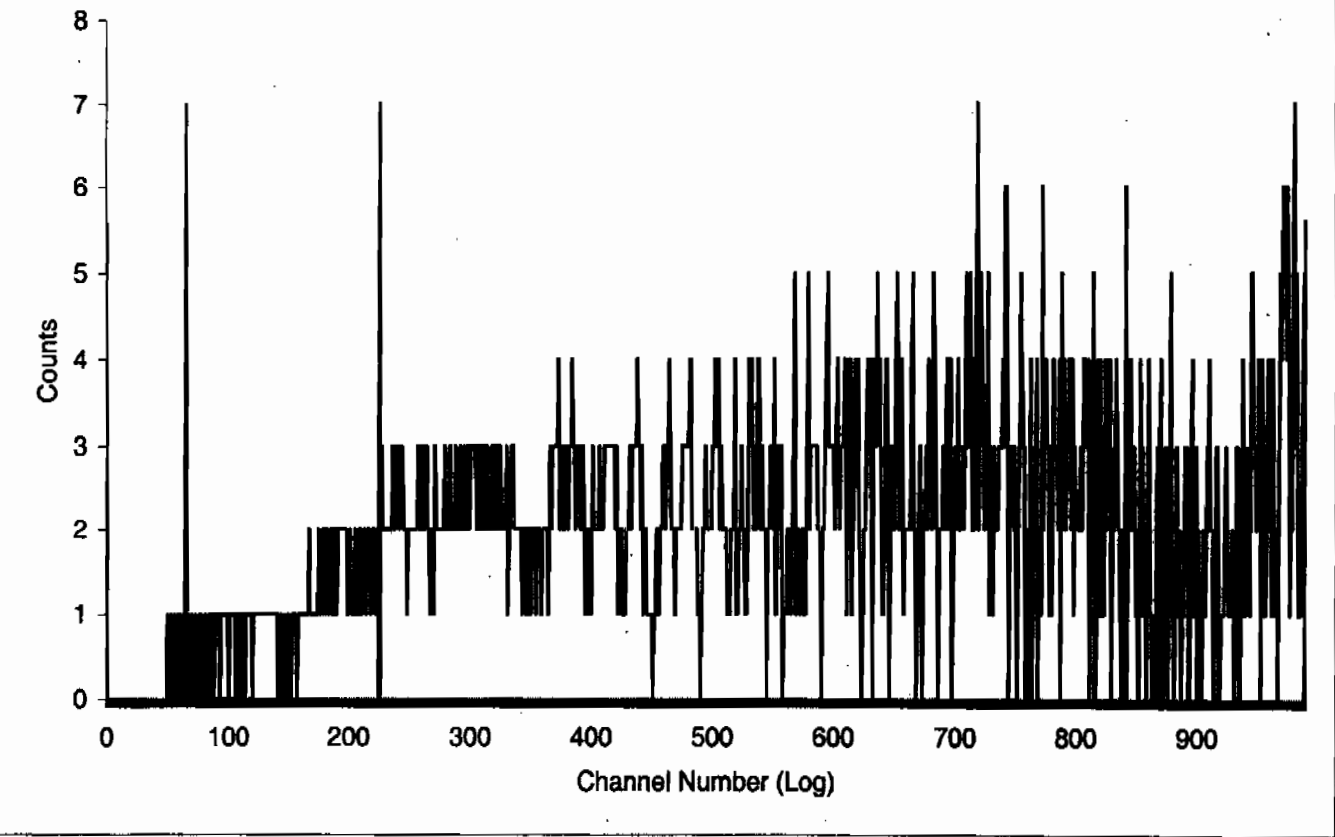
Sample Count Start Time:	9 Mar 2010 00:20:48		
Data Capture Date	09 Mar 2010 01:06:16		
User Filename	S02030960-12A.XLS		
	U02030860-9A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	12	60-12	45.00
H#, Total Counts:	113.8	2230	
Win1: Tritium - Start, End, Counts:	65	225	134
Win2: - Start, End, Counts:	0	990	1900



Sample Count Start Time:	9 Mar 2010 01:08:00		
Data Capture Date	09 Mar 2010 01:53:27		
User Filename	S02030901-1A.XLS		
	U02030860-9A.XLS		
Spectrum Type	Log Counts		
User Number	02		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	13	1-1	45.00
H#, Total Counts:	114.2	2392	
Win1: Tritium - Start, End, Counts:	65	225	163
Win2: - Start, End, Counts:	0	990	1973

SPECTRUM PLOT

USER 02 - TRITIUM



9 MAR 2010 02:06

ID: TRITIUM

USER: 3 COMMENT: RED
 PRESET TIME : 15.00
 DATA CALC : CPM H# : YES SAMPLE REPEATS: 1 PRINTER : EDIT
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : EDIT
 TWO PHASE : NO AQC : NO CYCLE REPEATS : 1 DISK : OFF
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

CHAN: 65.0 - 225.0 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0
 CHAN: 0.0 - 990.0 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

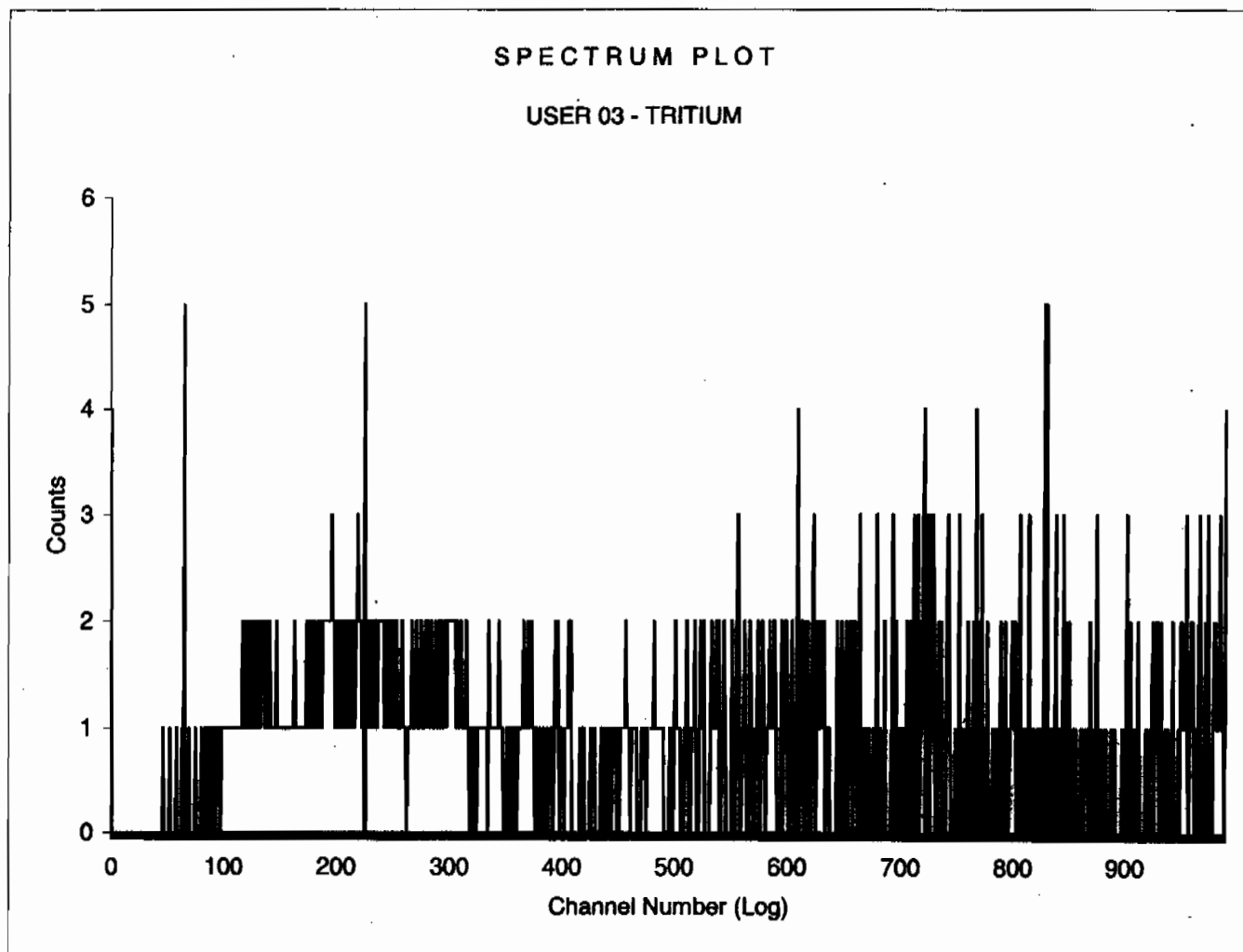
ALPHA-BETA DISCRIMINATION: NO

SAM NO	POS	TIME MIN	H#	WIND1		WIND2		LUMEX %	ELAPSED TIME	
				CPM	%ERROR	CPM	%ERROR			
13	1	5-1	15.00	114.3	12.73	14.66	58.33	6.78	0.68	15.84
14	2	5-2	15.00	114.6	13.60	14.21	58.33	6.78	0.74	32.19

INSTRUMENT CALIBRATION: Mini 9 MAR 2010 02:42
 Calibration successful

Calibrating Auto DPM
 Counting Standard for 14C
 Calibration Complete: 14C
 Counting Standard for 3H
 Calibration Complete: 3H
 Calibration Successful

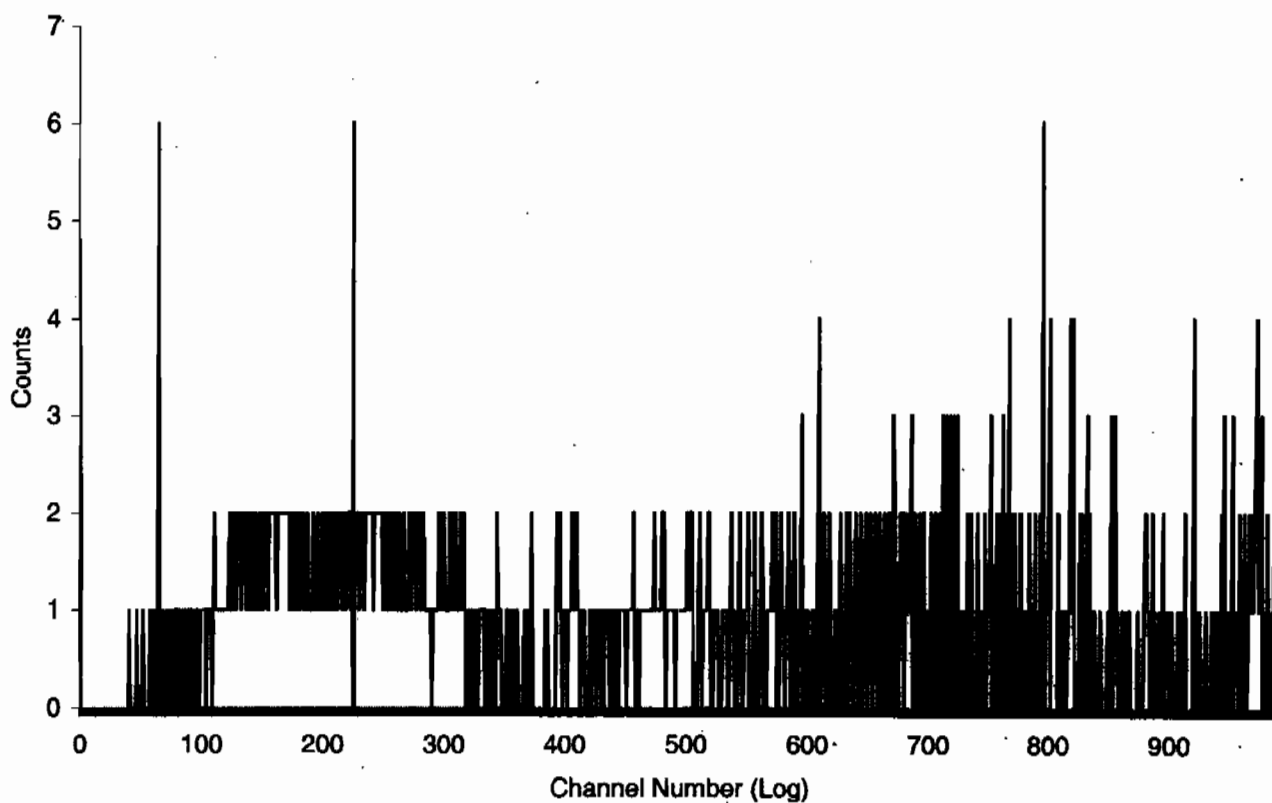
Sample Count Start Time:	9 Mar 2010 01:55:35		
Data Capture Date	09 Mar 2010 02:10:06		
User Filename	S03030905-1A.XLS		
	U03030905-1A.XLS		
Spectrum Type	Log Counts		
User Number	03		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	1	5-1	15.00
H#, Total Counts:	114.3	965	
Win1: Tritium - Start, End, Counts:	65	225	192
Win2: - Start, End, Counts:	0	990	876



Sample Count Start Time:	9 Mar 2010 02:11:56		
Data Capture Date	09 Mar 2010 02:26:27		
User Filename	S03030905-2A.XLS		
	U03030905-1A.XLS		
Spectrum Type	Log Counts		
User Number	03		
User Id	TRITIUM		
User Comment	RED		
Scintillator	LIQUID		
Sample, Rack-Pos, Time:	2	5-2	15.00
H#, Total Counts:	114.6	961	
Win1: Tritium - Start, End, Counts:	65	225	205
Win2: - Start, End, Counts:	0	990	875

SPECTRUM PLOT

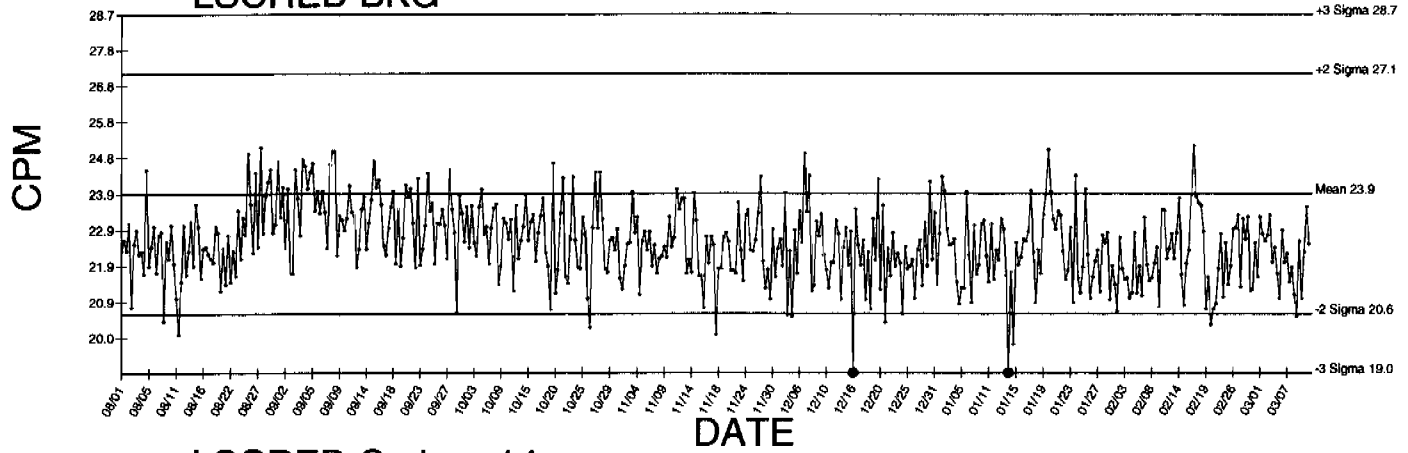
USER 03 - TRITIUM



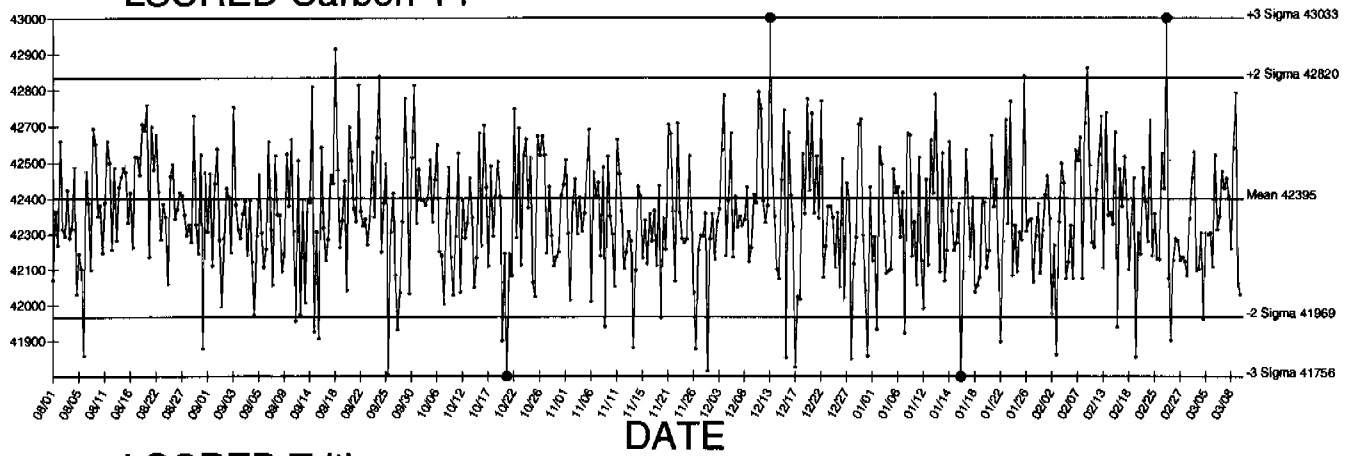
BACKGROUND AND EFFICIENCY DATA

LSCRED BKG

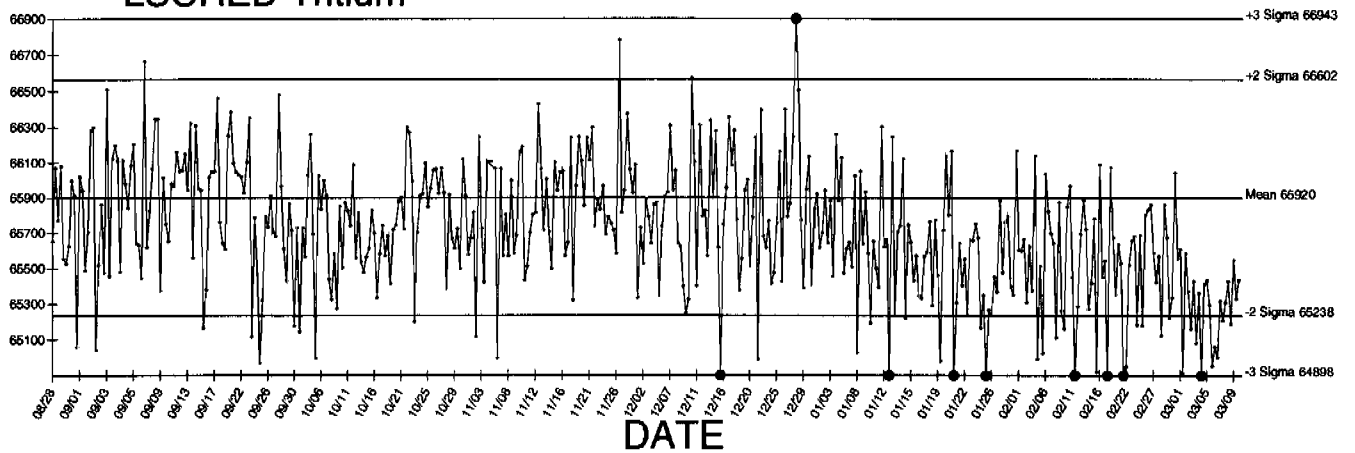
Generated 03/09/2010



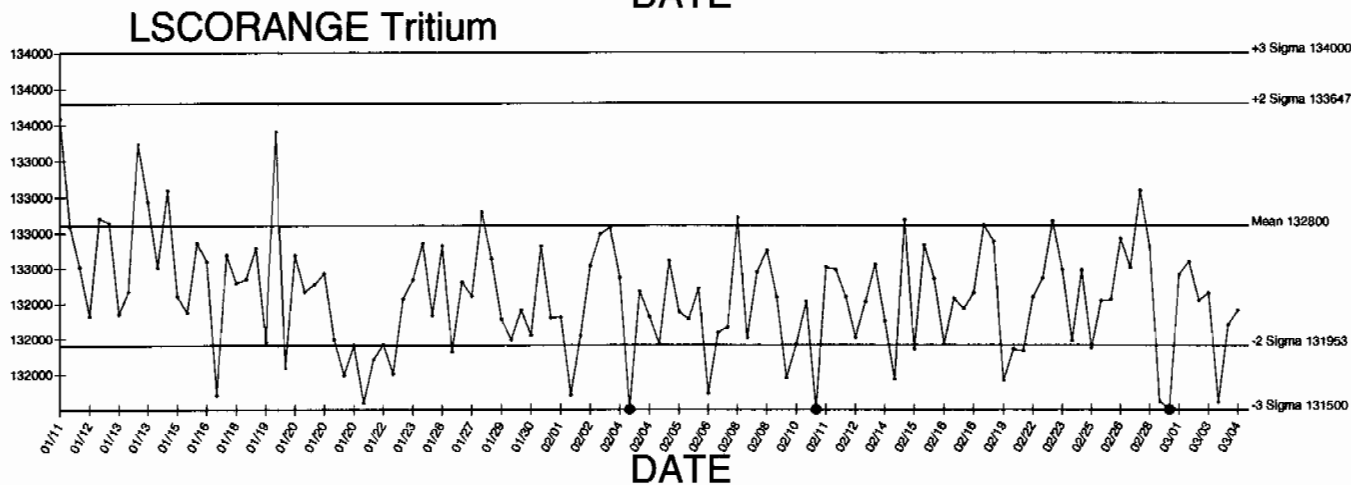
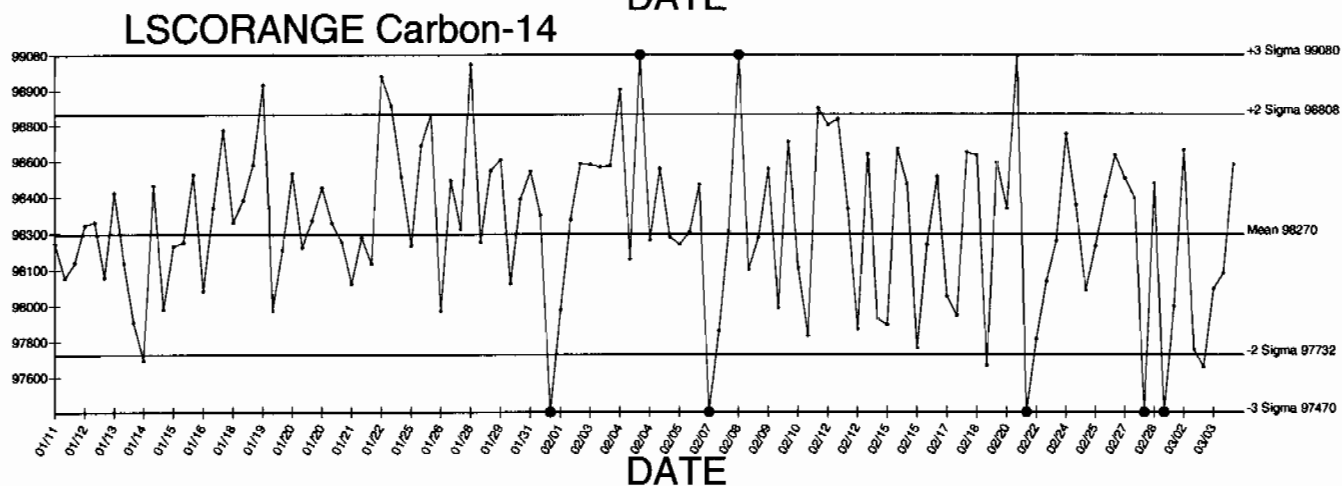
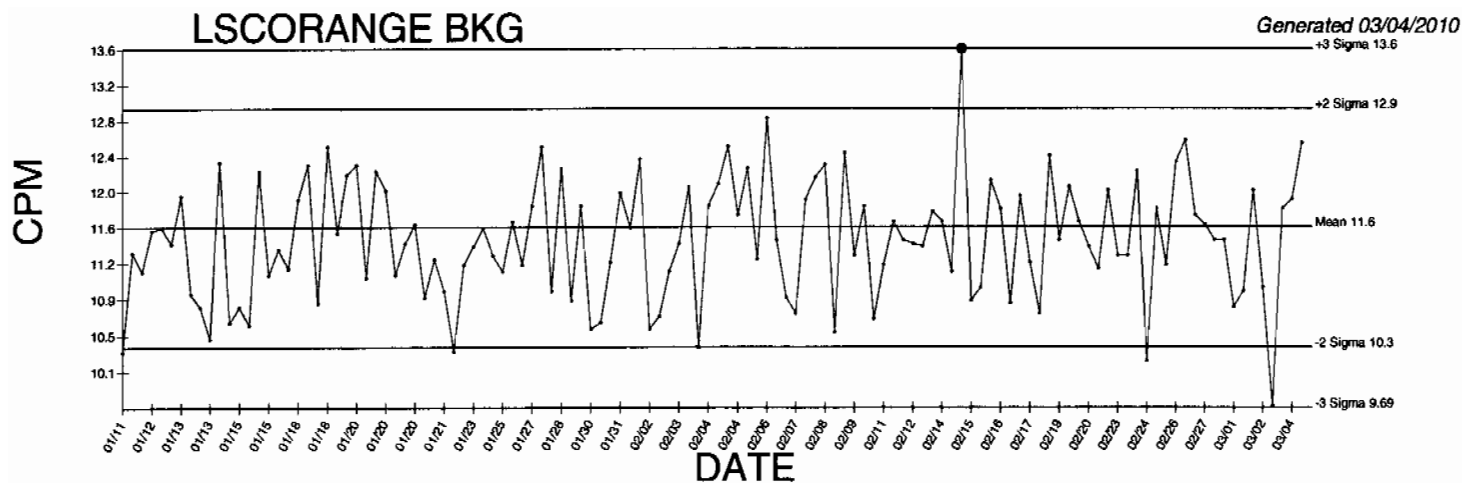
LSCRED Carbon-14



LSCRED Tritium



● Denotes Outlier



● Denotes Outlier

STANDARDS DATA

0134



CALIBRATION
No. 0146

Description Radionuclide: TRITIUM (HYDROGEN-3) Product code: TRY 64
Chemical form: water Batch: 111

Measurement Reference time: 1200 GMT on 1 March 1996
Radioactive concentration of tritium: 488.0 kilobecquerels per gram of water
which is equivalent to: 13.19 microcuries per gram of water
or: 2.93×10^7 disintegrations per minute per gram of water

Method of Measurement

This reference material was calibrated by direct comparison with a standard of tritium-labelled water obtained from the National Institute of Standards and Technology, USA.

Accuracy The OVERALL UNCERTAINTY of the result quoted above is estimated to be less than $\pm 2.5\%$

This estimate of uncertainty was calculated in accordance with the recommendations of the International Commission on Radiation Units and Measurements (ICRU Report 12). The limits of uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties.

Purity No radioactive impurities were detected. (Impurities with total activity greater than 0.001% of the activity of the tritium would have been detected).

Physical Data Half-life of tritium: 12.43 ± 0.11 years

Maximum beta energy of tritium: 18.6 keV

Remarks: The S.I. unit of radioactivity is the becquerel.

1 becquerel (Bq) = 1 nuclear transformation per second, therefore
1 curie (Ci) = 3.7×10^{10} becquerels exactly.

Useful conversion factors are:

1 microcurie (μCi) = 3.7×10^4 Bq = 37 kilobecquerels (kBq)

1 kilobecquerel (kBq) = 27.027 nanocuries (nCi)

This product meets the quality assurance requirements of NRC Regulatory Guide 4.15 for achieving implicit NIST (NBS) traceability as defined in NCRP58 (1985).

**Approved
signatory**

W. F. Case
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W.F. Case

Standard Traceability Log Rad

Source Material Info		A Solution Material Info	
Parent Code:	0134	Isotope:	Tritium
Prepared By:	Angela Johnson	Prepared By:	Angela Johnson
Carrier Conc:	DI WATER	Prep Date:	02/21/2001
Reference Date:	03/01/1996	Verification Date:	09/10/2008
Ampoule Mass (g):	5 g	Expiration Date:	03/27/2010
Uncertainty:	+/- 2.5 %	Primary Code:	0134-A
LogBook No:	RC S 023 061	Dilution(mL):	100 mL
		Mass of Parent(g):	3.3659 g
		Density(g/mL):	1.0004
		Balance ID:	38080204

Calculations Converting parent activity to dpm/mL|dpm/g

$(\text{Mass of parent(g)}) * (\text{Parent Activity (kBq/g)}) * (\text{conversion dpm to kBq}) / (\text{Dilution Vol}) = \text{Parent Activity (dpm/mL)}$
$(\text{Mass of parent(g)}) * (\text{Parent Activity (kBq/g)}) * (\text{conversion dpm to kBq}) / \text{Density (g/mL)} / (\text{Dilution Vol}) = \text{Parent Activity (dpm/g)}$
$(3.3659 \text{ g}) * (488 \text{ kBq/g}) * (60000 \text{ dpm/kBq}) / (100 \text{ mL}) = 985535.5200 \text{ dpm/mL}$
$(3.3659 \text{ g}) * (488 \text{ kBq/g}) * (60000 \text{ dpm/kBq}) / (1.0004 \text{ g/mL}) / (100 \text{ mL}) = 985180.3116 \text{ dpm/g}$

Secondary Standards

Prep Date	Preparer	Mass Primary	Dilution (mL)	Code	Conc dpm/mL	Verification Date	Expiration Date
07/20/2004	Amanda Fehr	5.86	1000	0134-H	5773.1566 dpm/mL	07/25/2006	07/25/2007
12/20/2005	Amanda Fehr	5.5451	1000	0134-I	5462.92 dpm/mL	12/20/2006	12/20/2007
07/11/2007	Daniel Roy	5.5863	1000	0134-J	5503.5128 dpm/ml	07/29/2008	07/29/2009
03/25/2009	Mary Aders	5.4917	1000	0134-K	5410.3147 dpm/ml	03/27/2009	03/27/2010

GEL Laboratories LLC
Version 1.0 9/18/2000

Verification for H-3 Standard 0134-K

M. Aders	Isotope	Detector CPM	BKG CPM	NET CPM	Detector Eff Mass. Used (mL)	Source DPM/mL
4/9/2009	0134-K N1	1097.2000	54.0000	1043.2000	0.380548	2741.3088
	0134-K N2	1073.2000	54.0000	1019.2000	0.380548	2678.242955
	0134-K N3	1085.2000	54.0000	1031.2000	0.380548	2709.776428

Mean Value (Counting) = 2709.776428
 Stddev = 31.53347278

Certificate Value = 2581.86 dpm/mL
 Lower Limit = 2646.709482 dpm/mL
 Upper Limit = 2772.843373 dpm/mL
 Rule 1 Pass/Fail Fail
 Two sigma = 63.06894556 dpm/mL
 10 % of Mean = 270.9778428 dpm/mL
 Rule 2 (Pass/Fail) Pass

*exception taken due to full recovery of standard

Verification Rules

- Rule 1 = The certificate value (NOT including any uncertainty) shall lie within the 95% confidence interval determined from the mean and two sigma standard deviation of the three measurements
- Rule 2 = The two sigma value used for the 95% confidence interval shall not exceed 10% of the mean value of the three verification measurements.
- Rule 3 = The determined mean value shall be within 10% of the certificate value.

The analyst prepared three standard verification sources for H-3 source 0134-K by transferring 0.1 mL portions of the standard into glass liquid scintillation vials. Ten mL of Ecoscint Ultra liquid scintillation cocktail was added to each vial and the vials were shaken to mix. A Blank vial was prepared in a similar fashion using 1 mL of DI water and 10 mL of Ecoscint Ultra liquid scintillation cocktail. The standard verification vials and Background source were dark adapted for two hours and counted on Silver for H-3 source standard verification. The H-3 efficiency calibration which was used for verification calculations was performed on 4/9/09 using 0020-A (H-3). Calibration data is recorded in this logbook under H-3 0020. Each verification source calculation was performed as follows:

$$\text{Source dpm/g} = (A - B)/(C)(D)$$

where:

- A = Ver. source cpm,
- B = BKG cpm,
- C = System efficiency, (cpm/dpm), and
- D = mass used for standard verification.

Reference RAD SOP M-001

Heardrighters 4/12/09
 Amanda J. Lehn 4/19/09

RUNLOGS

Instrument Run Log

Instrument Type: LSC

Batch ID: 956741

Sample ID	Sample Type	Analyst	Instrument	Run Date	Status	Geometry	Calibration Date
247193005	SAMPLE	KXK2	LSCORANGE	04-MAR-10 07:14	DONE		
247193006	SAMPLE	KXK2	LSCORANGE	04-MAR-10 07:28	DONE		
247193007	SAMPLE	KXK2	LSCORANGE	04-MAR-10 07:49	DONE		
247193012	SAMPLE	KXK2	LSCORANGE	04-MAR-10 08:52	DONE		
247193013	SAMPLE	KXK2	LSCORANGE	04-MAR-10 09:55	DONE		
247337001	SAMPLE	KXK2	LSCORANGE	04-MAR-10 10:16	DONE		
247337002	SAMPLE	KXK2	LSCORANGE	04-MAR-10 11:19	DONE		
247337003	SAMPLE	KXK2	LSCORANGE	04-MAR-10 12:21	DONE		
247337004	SAMPLE	KXK2	LSCORANGE	04-MAR-10 13:24	DONE		
247337005	SAMPLE	KXK2	LSCORANGE	04-MAR-10 14:26	DONE		
247337006	SAMPLE	KXK2	LSCORANGE	04-MAR-10 15:29	DONE		
247337007	SAMPLE	KXK2	LSCORANGE	04-MAR-10 16:32	DONE		
1202051378	MB	KXK2	LSCORANGE	04-MAR-10 17:35	DONE		
1202051379	DUP	KXK2	LSCORANGE	04-MAR-10 18:37	DONE		
1202051380	LCS	KXK2	LSCORANGE	04-MAR-10 19:40	DONE		

Instrument Run Log

Instrument Type: LSC

Batch ID:961331

Sample ID	Sample Type	Analyst	Instrument	Run Date	Status	Geometry	Calibration Date
247193001	SAMPLE	KXK2	LSCRED	08-MAR-10 16:03	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193002	SAMPLE	KXK2	LSCRED	08-MAR-10 16:50	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193003	SAMPLE	KXK2	LSCRED	08-MAR-10 17:38	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193004	SAMPLE	KXK2	LSCRED	08-MAR-10 18:25	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193008	SAMPLE	KXK2	LSCRED	08-MAR-10 19:12	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193009	SAMPLE	KXK2	LSCRED	08-MAR-10 19:59	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193010	SAMPLE	KXK2	LSCRED	08-MAR-10 20:46	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193011	SAMPLE	KXK2	LSCRED	08-MAR-10 21:59	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247193014	SAMPLE	KXK2	LSCRED	08-MAR-10 22:46	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
247344002	SAMPLE	KXK2	LSCRED	08-MAR-10 23:33	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
1202062033	MB	KXK2	LSCRED	09-MAR-10 00:20	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
1202062034	DUP	KXK2	LSCRED	09-MAR-10 01:08	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
1202062035	MS	KXK2	LSCRED	09-MAR-10 01:55	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00
1202062036	LCS	KXK2	LSCRED	09-MAR-10 02:11	DONE	10mL DW/13mL Ecoscint Ultra	21-AUG-09 00:00