Wednesday, January 27, 2010

REQUEST NUMBER: 10-1432

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:10-1432

Per Agreement Number:126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples

according to the schedule indicated:

SHIP DATE: 1/27/2010

TURNAROUND/REPORT DUE: 2/26/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7883	R	1/25/2010	
		1	RE15-10-7884	R	1/25/2010	
		1	RE15-10-8056	R	1/25/2010	
		1	RE15-10-8057	R	1/25/2010	
	SW-846:8321A_MOD	1	RE15-10-7883	R	1/25/2010	
		1	RE15-10-7884	R	1/25/2010	
		1	RE15-10-7931	R	1/25/2010	
		1	RE15-10-7932	R	1/25/2010	
		1	RE15-10-7933	R	1/25/2010	

Wednesday, January 27, 2010 REQUEST NUMBER: 10-1432

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-7934	R	1/25/2010	
		1	RE15-10-7935	R	1/25/2010	
		1	RE15-10-7936	R	1/25/2010	
		1	RE15-10-7937	R	1/25/2010	
		1	RE15-10-7938	R	1/25/2010	
		1	RE15-10-7939	R	1/25/2010	
		1	RE15-10-7940	R	1/25/2010	
		1	RE15-10-8056	R	1/25/2010	
		1	RE15-10-8057	R	1/25/2010	

Final Page of REQUEST NUMBER 10-1432

Wednesday, January 27, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1432

REQUEST NUMBER: 10-1432

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc.,
Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 2/26/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7883	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7884	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7932	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7931	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7938	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7933	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7939	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7936	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7935	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7934	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7940	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7937	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8056	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8057	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:		**Date**	**Time**	**Received By:**		**Date**	**Time**
[signature]		1/27/10	1400				
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		

Received for DISPOSAL By: **Date** **Time** **Remarks:**

Printed Name Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7883 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	ALLH
TIME COLLECTED (HH:MM)		1445	SUB-MEDIA:	TUFF I	NA
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	15-610711	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.4	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+CN	~~1GAL~~ POLY 1L RS 01.11.10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: moist sandy brown clay

FD: RE15-10-8057

SAMPLE COMMENTS: NA

LOCATION DESC: 86-66 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 52 dpm
Beta/Gamma ≤ 2120 dpm

PID Ambient Reading 0.0 / 0.0 ppm

COLLECTED BY (PRINT) TLMcFarland REVIEWED BY (PRINT) R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Sherwood	1/25/10
(Signature) Jon R Marin	16:55	(Signature) Sherri Sherwood	1655
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7884 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	OK
TIME COLLECTED (HH:MM)		1500	SUB-MEDIA:	TUFF 1	
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:	HA	
LOCATION ID:	15-610711		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0	3.0	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	3.8	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	y	
1		AM241+GS+ISOPU+ISOU	1 LITER POLY	None	y	
1		H3	500 ML POLY	Ice	y	
1		Met+U+CLO4+CN	~~TOAL~~ POLY 1L RS 01-11-10	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC: pinkish grey tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-66, mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 91 dpm
Beta/Gamma ≤ 2410 dpm

PID Ambient 0.4 / Reading 4.7 ppm

COLLECTED BY (PRINT) R Saunders **REVIEWED BY (PRINT)** TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Sherwood	1/25/10
(Signature) Jack Marin	16:55	(Signature) Sherri Sherwood	1655
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7931 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	Alluvium
TIME COLLECTED (HH:MM)		1342	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610735	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+CN	~~1GAL~~ POLY 1L RS 01.11.10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown clayey silt, roots

SAMPLE COMMENTS: NA

LOCATION DESC: 86-82, mesa top S of fire rd

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 39 dpm
Beta/Gamma ≤ 2370 dpm

PID Ambient Reading 0.0 = 0.0 ppm

COLLECTED BY (PRINT) TL McFarling **REVIEWED BY (PRINT)** A. Goumas

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10 1655	(Printed Name) Sherri Sherwood	1/25/10 1655
(Signature) Jack Marin		(Signature) Sherri Sherwood	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7932 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1406	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610735	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	3.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	4.0	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01.11.10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Gray tuff, few small rocks

SAMPLE COMMENTS: Hit tuff at 3.5'

LOCATION DESC: 8b - 82 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 39 dpm
Beta/Gamma ≤ 2490 dpm

PID Ambient 0.2 / Reading 1.3 ppm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** A. Gouvas

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Sherwood	1/25/10
(Signature) [signature]	16:56	(Signature) Sherri Sherwood	1656
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7933 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	Alluv
TIME COLLECTED (HH:MM)		1339	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610736	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01.11.10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown silty clay, some roots

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-81, mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 39 dpm
Beta/Gamma ≤ 2440 dpm

PID Ambient 0.0 / Reading 0.0 ppm

COLLECTED BY (PRINT) TLMcFarlane **REVIEWED BY (PRINT)** R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10 16:56	(Printed Name)	
(Signature) Jan R. Marin		(Signature)	
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7934 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	OK
TIME COLLECTED (HH:MM)		1428	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610736	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	3.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	BM 1/25/10 ~~3.0~~ 3.9	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	OK	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+CN	~~1 GAL~~ POLY 1L RS 01-10-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brownish grey tuff

SAMPLE COMMENTS: Hit tuff at 1.0 ft

LOCATION DESC: 8b-81 mesa Top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 85 dpm
Beta/Gamma = 2880 dpm

PID Ambient Reading 0.0 / 0.0 ppm

COLLECTED BY (PRINT) R Saunders **REVIEWED BY (PRINT)** A. Goomas

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sheri Sherwood	1/25/10
(Signature) Joseph V. Marin	1656	(Signature) Sheri Sherwood	1656
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7935 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	ALLH
TIME COLLECTED (HH:MM)		1347	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610737	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.3	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01·11·10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brown silty clay, small rocks, moist

FR: RE15-10-8079

SAMPLE COMMENTS:
NA

LOCATION DESC: 86-78, mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 104 dpm
Beta/Gamma ≤ 4540 dpm

PID Ambient / Reading 0.0 / 0.0 ppm

COLLECTED BY (PRINT) R Saunders

REVIEWED BY (PRINT) A. Gowmas

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Henwood	1/25/10
(Signature) Jon R. Marin	1656	(Signature) Sherri Henwood	1656
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7936 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	OBT3	ok
TIME COLLECTED (HH:MM)		1426	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610737	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	2.9	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	4.0	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Gray tuff

FD RE15-10-8056

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-78, mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 72 dpm
Beta/Gamma = 2710 dpm

PID Ambient Reading 0.0 / 0.0 = ppm 0.0 / 0.0

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** A. Gomas

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Shenwood	1/25/10
(Signature) Jon R. Marin	16:56	(Signature) Sherri Shenwood	1659
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7937 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	OBT3	Alih
TIME COLLECTED (HH:MM)		1457	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610738	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / (NO) / NA

BOREHOLE: YES / (NO) / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown silty sand, some rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-80 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 85 dpm
Beta/Gamma ≤ 2330 dpm

PID Ambient Reading 0.1 / 0.2 ppm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10 16:56	(Printed Name) Sherri Sherwood	1/25/10 1656
(Signature) Jack T Marin		(Signature) Sherri Sherwood	
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7938 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1525	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610738	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	2.9	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	3.7	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1GAL~~ POLY 1L RS 01.11.10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Gray tuff

FR RE15-10-8080

SAMPLE COMMENTS: Hit tuff at 2.9'

LOCATION DESC: 8b-80 mesa Top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 11 dpm
Beta/Gamma = 2060 dpm

PID Ambient Reading 0.0 = 1.9 ppm

COLLECTED BY (PRINT) T.L. McFarland **REVIEWED BY (PRINT)** R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10 16:56	(Printed Name) Sherri Norwood	1/25/10 1656
(Signature) Jan R. Marin		(Signature) Sherri Norwood	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7939 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	Alluvium
TIME COLLECTED (HH:MM)		1522	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610739	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES (NO) / NA

BOREHOLE: YES / (NO) / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01·11·10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: moist brown silty sand, some clay

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-79 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 27 dpm
Beta/Gamma ≤ 1596 dpm

PID Ambient Reading 0.0 / 0.0 ppm

COLLECTED BY (PRINT) R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Sherwood	1/25/10
(Signature) Jon R. Marin	16:56	(Signature) Sherri Sherwood	1656
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7940 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		16:20	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610739	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	3.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	3.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / (NO) / NA

BOREHOLE: YES / (NO) / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01·11·10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Gray, tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 86-79 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 22 **dpm**
Beta/Gamma ≤ 7940 **dpm**

PID Ambient 0.2 / Reading 0.2 **ppm**

COLLECTED BY (PRINT) R Saunders **REVIEWED BY (PRINT)** T L McFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10 16:56	(Printed Name) Sherri Shenwood	1/25/10 1656
(Signature) Jan R. Marin		(Signature) Sherri Shenwood	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8056 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1426	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	UNK	15-610737	FIELD QC TYPE:	FD	↓
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	NA	↓
TOP DEPTH:	0	2.9	SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	0	4.0	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	TRM 1/25/10 ~~8082+~~NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+CN	1 ~~GAL~~ POLY 1 liter 1.11.10 [illegible]	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-~~8056~~ 7936 RG 1/25/10

Gray tuff

SAMPLE COMMENTS:

LOCATION DESC: 8b-78

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 72 dpm
Beta/Gamma ≤ 2710 dpm

PID Ambient/Reading 0.0/0.0 ppm 0.0/0.0

COLLECTED BY (PRINT) REVIEWED BY (PRINT) A. Goumas

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Sherwood	1/25/10
(Signature) Jan R. Marin	16:56	(Signature) Sherri Sherwood	1656
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8057 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	OBT3	Alih
TIME COLLECTED (HH:MM)		1445	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	UNK	15-61071	FIELD QC TYPE:	FD	
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	0.4	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+CN	1 ~~GAL~~ POLY 1 liter 1.11.10 RC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE 15-10-~~7833~~ 7883 1RM 1/26/10
moist brown sandy clay

SAMPLE COMMENTS:
NA

LOCATION DESC: 8b-66 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 52 dpm
Beta/Gamma ≤ 2120 dpm

PID Ambient Reading 0.0 = 0.0 ppm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10 16:57	(Printed Name) Sherri Sherwood	1/25/10 1659
(Signature) Jan R Marin		(Signature) Sherri Sherwood	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8079 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	NA	ok
TIME COLLECTED (HH:MM)		1450	SUB-MEDIA:	OTHER	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	DC	↓
LOCATION ID:	UNK	15-610737	FIELD QC TYPE:	FR	↓
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	UF	↓
TOP DEPTH:	0	↓	SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	0	↓	SCREEN/PORT DESC:		NA
FIELD MATRIX:	W	↓	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

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

SAMPLE DESC: QC Sample of RE15-10-7935

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = _____ dpm TLM 1/25/10
Beta/Gamma = _____ dpm

PID Ambient/Reading = ppm TLM 1/25/10

COLLECTED BY (PRINT) TLMcFarlane **REVIEWED BY (PRINT)** R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/25/10	(Printed Name) Sherri Sherwood	1/25/10
(Signature) Jon R. Marin	16:57	(Signature) Sherri Sherwood	1657
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8080 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/25/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		15:35	SUB-MEDIA:	OTHER	
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	15-610738	FIELD QC TYPE:	FR	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	UF	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	W		EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

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

SAMPLE DESC: QC Sample of RE15-10-7938

SAMPLE COMMENTS: Rinsate

LOCATION DESC:
86-80

FIELD SCREENING/MEASUREMENT RESULTS:

JRM 1/25/10
Alpha = ____ **dpm**
Beta/Gamma = ____ **dpm**

JRM 1/25/10
PID Ambient Reading = ppm

COLLECTED BY (PRINT) J. MARIN **REVIEWED BY (PRINT)** TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	MARIN 1/25/10 16:57	(Printed Name) Sherri Sherwood	1/25/10 1657
(Signature) Jan R. Marin		(Signature) Sherri Sherwood	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

Rad Screening Data Release Form

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

RE15-10-7883
7884
7931
7932
7933
7934
7935
7936
7937
7938
7939
RE15-10-7940
8056
8057

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

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

RE15-10-8080 FR
8079 FR

Reason:

Print Last Name MARIN Signature Jan R. Marin Date 1/25/10

AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7883	**ARS Sample ID:**	ARS2-10-00023-001
Sample Collection Date:	01/25/10 14:45	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	48.44	32.43	36.09	32.90		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	49.89	16.45	17.69	17.55		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	19.62	7.19	1.50	7.21		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.14	0.15	0.06	0.15		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.33	0.43	0.11	0.43		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	0.69	0.41	0.18	0.41		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	1.16	0.80	0.26	0.80		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	1.10	0.86	0.28	0.86		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	5.30	3.64	1.41	3.64		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.21	0.24	0.10	0.24		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 2.50

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7884	**ARS Sample ID:**	ARS2-10-00023-002
Sample Collection Date:	01/25/10 15:00	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	29.95	25.78	31.78	26.03		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	42.70	15.72	18.25	16.57		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	23.70	8.15	1.61	8.19		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	10.60	0.11	10.60		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.16	0.14	0.08	0.14		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	-0.01	13.74	0.07	13.74		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.15	0.24	0.14	0.24		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.30	0.63	0.17	0.64		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	0.73	0.40	0.57	0.40		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	1.95	0.87	0.16	0.87		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	4.36	3.03	1.22	3.19		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.08	0.14	0.06	0.14		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 0.52

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7931	**ARS Sample ID:**	ARS2-10-00023-003
Sample Collection Date:	01/25/10 13:42	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	33.20	26.91	30.56	27.22		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	47.72	17.26	19.68	18.22		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.06	0.12	0.10	0.12		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	-1.19	-30.61	4.37	-30.61		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	10.29	8.10	10.29		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.10	0.12	0.08	0.12		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.00	0.03	0.06	0.03		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.28	0.32	0.12	0.32		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.21	0.47	0.15	0.47		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-228	1.08	0.76	0.27	0.76		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	1.43	0.80	0.31	0.80		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	2.51	2.54	1.21	2.70		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.03	0.14	0.08	0.14		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 1.43

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARSZ-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7932	**ARS Sample ID:**	ARS2-10-00023-004
Sample Collection Date:	01/25/10 14:06	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	15.13	22.44	38.20	22.51		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	43.35	18.72	18.71	16.59		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	-2.70	-28.07	4.29	-28.07		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.05	0.13	0.11	0.13		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.23	0.20	0.08	0.20		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.24	0.20	0.07	0.20		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.00	11.12	0.12	11.12		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.61	0.49	0.09	0.49		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-228	0.96	0.68	0.62	0.68		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	2.18	0.97	0.17	0.98		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	2.90	3.24	1.43	3.23		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.39	0.30	0.10	0.30		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 1.01

Quality Assurance Review

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

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	AR52-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7933	**ARS Sample ID:**	AR52-10-00023-005
Sample Collection Date:	01/25/10 13:39	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	75.13	40.22	36.09	41.26		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	58.76	17.74	17.69	19.15		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.05	0.09	0.07	0.09		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	15.44	5.66	1.18	5.68		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	7.71	0.08	7.71		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.14	0.13	0.05	0.13		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.00	8.01	0.09	8.01		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	0.97	0.35	0.10	0.35		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	0.97	0.50	0.21	0.50		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	0.92	0.70	0.29	0.70		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	5.44	3.80	1.34	4.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.04	0.14	0.08	0.14		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 2.33

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7934	**ARS Sample ID:**	ARS2-10-00023-006
Sample Collection Date:	01/25/10 14:28	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-2.35	9.58	31.78	9.58		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	48.35	13.44	18.25	16.41		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	24.86	8.16	1.59	8.19		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	10.38	0.11	10.38		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.15	0.16	0.07	0.16		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.34	0.32	0.12	0.32		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.24	0.50	0.17	0.50		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	1.64	0.86	0.28	0.86		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	0.77	0.58	0.21	0.58		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	3.71	3.36	1.38	3.49		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.05	0.18	0.09	0.18		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 0.98

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7935	**ARS Sample ID:**	ARS2-10-00023-007
Sample Collection Date:	01/25/10 13:47	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	47.69	31.52	30.56	32.05		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	141.19	25.34	19.68	30.67		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	0.43	4.80	2.88	4.80		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	8.32	0.08	8.32		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.14	0.12	0.06	0.12		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.01	0.04	0.05	0.04		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.00	8.65	0.10	8.65		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.36	0.42	0.11	0.43		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	0.29	0.45	0.37	0.45		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	2.38	1.28	0.43	1.28		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	41.91	6.65	1.77	11.65		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.83	0.65	0.23	0.65		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 2.46

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	Request or PO Number:	
Client Sample ID:	RE15-10-7936	ARS Sample ID:	ARS2-10-00023-008
Sample Collection Date:	01/25/10 14:26	Date Received:	01/26/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	28.91	27.32	38.20	27.55		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	39.59	15.87	18.71	16.31		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	-1.94	-30.91	3.71	-30.91		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	11.53	0.12	11.53		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.10	0.11	0.08	0.11		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	-0.01	15.08	0.07	15.08		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.00	11.99	0.13	11.99		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.37	0.52	0.16	0.52		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	1.72	1.07	0.31	1.08		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	0.04	0.45	0.29	0.45		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	5.36	3.67	1.46	3.67		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.45	0.46	0.17	0.46		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 0.38

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group: ARS2-10-00023
Client Sample ID: RE15-10-7937
Sample Collection Date: 01/25/10 14:57
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00023-009
Date Received: 01/26/10 00:00
Report Date: 01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	50.41	33.85	36.09	34.40		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	42.67	15.79	17.69	16.64		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.16	0.21	0.10	0.21		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	-0.64	-6.08	2.30	-6.08		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	10.29	0.10	10.29		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.12	0.18	0.08	0.18		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.07	0.11	0.06	0.11		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	1.94	0.98	0.23	0.98		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.28	0.62	0.27	0.62		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	0.89	0.60	0.38	0.60		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	4.21	2.20	0.98	2.20		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	34.62	7.38	2.36	10.82		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	1.17	0.93	0.33	0.93		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 2.63

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9834

ARS Sample Delivery Group:	ARS2-10-00023	Request or PO Number:	
Client Sample ID:	RS15-10-7938	ARS Sample ID:	ARS2-10-00023-010
Sample Collection Date:	01/25/10 15:10	Date Received:	01/26/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	46.40	31.49	31.78	32.05		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	54.09	17.17	18.25	18.40		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	24.77	8.28	1.59	8.32		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	10.40	0.11	10.40		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.03	0.05	0.07	0.05		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.00	54.99	0.12	54.99		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.29	0.50	0.17	0.50		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-228	2.55	0.96	0.28	0.96		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	1.44	0.98	0.29	0.98		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	0.66	1.64	0.98	1.65		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.01	0.09	0.08	0.09		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 0.57

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7939	**ARS Sample ID:**	ARS2-10-00023-011
Sample Collection Date:	01/25/10 15:22	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	28.37	25.20	30.56	25.43		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	61.21	18.52	19.56	19.97		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	-0.10	-0.00	2.94	-0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	0.01	0.00	0.01		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.06	0.08	0.07	0.08		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.10	0.12	0.06	0.12		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.37	0.28	0.10	0.28		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.14	0.48	0.19	0.48		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	0.86	0.78	0.24	0.78		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	1.75	1.39	0.46	1.39		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	13.79	5.54	1.92	5.57		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.36	0.32	0.14	0.32		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 2.19

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-7940	**ARS Sample ID:**	ARS2-10-00023-012
Sample Collection Date:	01/25/10 16:00	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	33.50	28.77	38.20	29.06		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	44.37	16.15	16.71	17.04		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	26.35	8.47	1.57	8.50		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	10.25	0.10	10.25		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.00	33.64	0.08	33.64		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.00	0.03	0.06	0.03		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.18	0.25	0.12	0.25		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.72	0.54	0.15	0.55		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-228	1.36	0.59	0.32	0.59		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	0.81	0.51	0.19	0.51		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	4.08	3.73	1.44	3.85		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.33	0.35	0.14	0.35		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 0.46

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group: ARS2-10-00023
Client Sample ID: RE15-10-8056
Sample Collection Date: 01/25/10 14:26
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00023-013
Date Received: 01/26/10 00:00
Report Date: 01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	76.21	39.02	36.09	39.96		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	48.44	16.39	17.69	17.30		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	29.01	10.74	2.74	10.77		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	11.82	0.12	11.82		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.53	0.35	0.09	0.35		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	-0.01	15.46	0.07	15.46		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	1.18	0.63	0.14	0.63		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.68	0.61	0.21	0.62		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-226	1.47	0.81	0.32	0.81		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	1.48	0.85	0.38	0.85		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	0.60	2.94	1.58	2.94		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.31	0.42	0.18	0.42		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 0.32

Quality Assurance Review

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

LELAP Certificate# 30558 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

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

ARS Sample Delivery Group:	ARS2-10-00023	**Request or PO Number:**	
Client Sample ID:	RE15-10-8057	**ARS Sample ID:**	ARS2-10-00023-014
Sample Collection Date:	01/25/10 14:45	**Date Received:**	01/26/10 00:00
Sample Matrix:	Soil/Solid	**Report Date:**	01/26/10 14:28

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	Tpu	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	39.18	28.78	31.78	29.17		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
GROSS BETA	43.67	15.98	16.25	16.85		pCi/g	EPA 900.0M	1/26/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
K-40	-0.78	-15.99	3.11	-15.99		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CO-60	0.00	10.50	0.11	10.50		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-134	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
CS-137	0.23	0.20	0.07	0.20		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
EU-152	0.61	0.50	0.12	0.50		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
PB-212	1.16	0.46	0.13	0.47		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
RA-228	1.52	0.81	0.28	0.81		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-235	0.82	0.84	0.18	0.84		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
U-238	5.20	3.80	1.31	3.79		pCi/g	EPA 901.1M	1/26/2010	ME	N/A
AM-241	0.01	0.09	0.08	0.09		pCi/g	EPA 901.1M	1/26/2010	ME	N/A

NOTES: % Moisture: 3.76

Quality Assurance Review

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

LELAP Certificate# 30658 NELAP Certificate # E87556

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY EST. 1943

Section I.

REQUEST NUMBER: 10-1432 VALIDATION DATE: 3/4/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Larry Fukui ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

☐ TPH-GRO	☐ HIGH EXPLOSIVES	☐ DIOXIN FURANS	☐ LCMSMS PERCHLORATES
☐ TPH-DRO	☐ METALS	☐ PCB CONGENERS	☐ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
☐ GENERAL CHEMISTRY	☐ RADIOCHEMISTRY	☒ LCMSMS HIGH EXPLOSIVES	

☐ OTHER (DESCRIBE):

Section II. Completeness Check

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

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

1. The CCV %Ds were >20% with a positive bias for 2,4,6-trinitrotoluene; PETN; and 2,4-dinitrotoluene. The associated sample results were NDs and, thus, were not qualified.
2. The surrogate %R was > the laboratory's UAL for the secondary HE analytes in sample RE15-10-8057. The associated sample results were NDs and, thus, were not qualified.
3. The LCS %R was < the laboratory's LAL but ≥10% for tetryl. The associated sample results were NDs and, thus, were qualified UJ,HE12a.
4. The MSD %R was > the laboratory's UAL for TATB. The associated sample results were NDs and, thus, were not qualified.
5. 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.
6. It should also be noted that the MS and MSD parent sample was from another LANL RN. No sample data were qualified as a result.

Reviewed by: Susan Ball Level: I Date: 03/05/10

DATA VALIDATION COVER SHEET

5122-1 **Data Validation Cover Sheet**	Records Use only Los Alamos NATIONAL LABORATORY EST. 1943

VALIDATOR'S SIGNATURE: _____ DATE: 3/4/10

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 Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
☐	☒	☐	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☒	☐	7. The surrogate is <10%R. Follow the external laboratory limits.	R, HE3	J-, HE3
☐	☒	☐	8. The surrogate is < the Lower Acceptance Limit but ≥10% recovery. Follow the external laboratory limits.	UJ, HE3a	J-, HE3a
☒	☐	☐	9. The surrogate %R value is > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE3b
☐	☐	☒	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 Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☐	☒	☐	12. The sample result is ≤5 times the concentration of the related analyte in the method blank.	U, HE4	N/A
☐	☒	☐	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
☐	☐	☒	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
☐	☒	☐	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
☐	☒	☐	16. The absence of sample carry-over must be determined and verified.	N/A	R, N, HE4f
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	19. The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
☒	☐	☐	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
☐	☒	☐	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
☐	☒	☐	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
5122-2 LC/MS/MS High Explosive Analytical Data Validation Checklist	Records Use only Los Alamos NATIONAL LABORATORY EST. 1943

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

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
5122-2 LC/MS/MS High Explosive Analytical Data Validation Checklist	Records Use only Los Alamos NATIONAL LABORATORY EST 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
☐	☐	☒	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
☐	☒	☐	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
☐	☒	☐	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686001

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208185a

Date Analyzed: 12-FEB-10 09:14

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686001

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130017.wiff

Date Analyzed: 13-FEB-10 14:24

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7884

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686002

Sample Amount 2

Moisture: 5.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208188a

Date Analyzed: 12-FEB-10 10:43

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7884

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686002

Sample Amount 2

Moisture: 5.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130020.wiff

Date Analyzed: 13-FEB-10 15:11

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7932

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208189a

Date Analyzed: 12-FEB-10 11:13

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	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 = $\frac{\text{Instrument Value} \times \text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7932

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130021.wiff

Date Analyzed: 13-FEB-10 15:26

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7931

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208190a

Date Analyzed: 12-FEB-10 11:42

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7931

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130022.wiff

Date Analyzed: 13-FEB-10 15:42

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 = $\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7938

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208191a

Date Analyzed: 12-FEB-10 12:12

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7938

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130023.wiff

Date Analyzed: 13-FEB-10 15:58

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7933

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208195a

Date Analyzed: 12-FEB-10 14:10

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7933

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130027.wiff

Date Analyzed: 13-FEB-10 17:01

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7939

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208196a

Date Analyzed: 12-FEB-10 14:40

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Client Sample ID: RE15-10-7939

Lab Code: GEL
GEL Job No (SDG) 10-1432

Matrix: SOIL
GEL Sample ID: 245686007

Sample Amount 2
Moisture: *****

Amount Units g
Date Received: 28-JAN-10

Extraction Type Sonication
Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10
Date Extracted: 04-FEB-10

Dilution Factor: 2
Injection Volume (uL): 50

GEL data file: EXS02130028.wiff
Date Analyzed: 13-FEB-10 17:16

Units: ug/kg

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

*Concentration = Instrument Value X Concentrated Extract Volume / Sample Amoun X Dilution Factor

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7936

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208197a

Date Analyzed: 12-FEB-10 15:09

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7936

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130029.wiff

Date Analyzed: 13-FEB-10 17:32

Units: ug/kg

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

*Concentration = $\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7935

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208198a

Date Analyzed: 12-FEB-10 15:38

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	576	
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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Client Sample ID: RE15-10-7935

Lab Code: GEL
GEL Job No (SDG) 10-1432

Matrix: SOIL
GEL Sample ID: 245686009

Sample Amount 2
Moisture: *****

Amount Units g
Date Received: 28-JAN-10

Extraction Type Sonication
Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10
Date Extracted: 04-FEB-10

Dilution Factor: 2
Injection Volume (uL): 50

GEL data file: EXS02130030.wiff
Date Analyzed: 13-FEB-10 17:48

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7934

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208199a

Date Analyzed: 12-FEB-10 16:08

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 UJ,HE12a	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7934

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130031.wiff

Date Analyzed: 13-FEB-10 18:03

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7940

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208200a

Date Analyzed: 12-FEB-10 16:38

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7940

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130032.wiff

Date Analyzed: 13-FEB-10 18:19

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7937

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208201a

Date Analyzed: 12-FEB-10 17:07

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7937

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130033.wiff

Date Analyzed: 13-FEB-10 18:35

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8056

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686013

Sample Amount 2

Moisture: 3.6

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208202a

Date Analyzed: 12-FEB-10 17:36

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Client Sample ID: RE15-10-8056

Lab Code: GEL
GEL Job No (SDG) 10-1432

Matrix: SOIL
GEL Sample ID: 245686013

Sample Amount 2
Moisture: 3.6

Amount Units g
Date Received: 28-JAN-10

Extraction Type Sonication
Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10
Date Extracted: 04-FEB-10

Dilution Factor: 2
Injection Volume (uL): 50

GEL data file: EXS02130034.wiff
Date Analyzed: 13-FEB-10 18:50

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8057

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686014

Sample Amount 2

Moisture: 29.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208203a

Date Analyzed: 12-FEB-10 18:06

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	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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8057

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686014

Sample Amount 2

Moisture: 29.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130035.wiff

Date Analyzed: 13-FEB-10 19:06

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LMF
3/4/10

DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY

Section I.

REQUEST NUMBER: 10-1432 VALIDATION DATE: 3/5/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Larry Fukui ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

☐ TPH-GRO	☐ HIGH EXPLOSIVES	☐ DIOXIN FURANS	☐ LCMSMS PERCHLORATES
☐ TPH-DRO	☐ METALS	☐ PCB CONGENERS	☒ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
☐ GENERAL CHEMISTRY	☐ RADIOCHEMISTRY	☐ LCMSMS HIGH EXPLOSIVES	

☐ OTHER (DESCRIBE): PCBs

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☒	☐	☐	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☒	☐	☐	8. QUANTITATION REPORTS
☒	☐	☐	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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. In the bracketing CCVs associated with all samples except RE15-10-7883, the average %D for Aroclor-1260 was >15% on both columns. The associated sample results were NDs and, thus, were qualified UJ,P7c. In the bracketing CCVs associated with all samples except -7883, the average %D for Aroclor-1016 was >15% on one column only. The associated sample results were NDs and, thus, were not qualified.
2. It should be noted that the MS and MSD parent sample was from another LANL RN and the raw data for the parent sample were not included in the package. Since an MS/MSD was not required, no sample results were qualified.

Reviewed by: Susan Ball Level: I Date: 03/05/10

VALIDATOR'S SIGNATURE: DATE: 3/5/10

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

5116-2

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

Records Use only

Los Alamos NATIONAL LABORATORY EST 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
☐	☒	☐	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
☐	☒	☐	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
☐	☒	☐	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
☐	☒	☐	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
☒	☐	☐	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
☐	☒	☐	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
☐	☒	☐	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
☐	☒	☐	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
☐	☐	☒	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

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

5116-2

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

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	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
☐	☐	☒	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
☐	☒	☐	13. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, P4	N/A
☐	☒	☐	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
☐	☐	☒	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
☐	☐	☒	16. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
☐	☒	☐	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
☐	☒	☐	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
☐	☒	☐	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
☐	☒	☐	20. The surrogate is <10%R. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3

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

5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☐	☒	☐	22. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P3b
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, P12	J-, P12
☐	☒	☐	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
☐	☒	☐	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P12b
☐	☒	☐	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
☐	☒	☐	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
☐	☒	☐	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
☐	☒	☐	31. Duplicate, Dilution, or reanalysis.	UJ, P88	J, P88

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

5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only Los Alamos NATIONAL LABORATORY EST 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	32. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytees identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, P15	R, P15
☒	☐	☐	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
☐	☒	☐	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:	10-1432	**Date Collected:**	01/25/2010 12:00	**Matrix:**	R
Lab Sample ID:	245686001	**Date Received:**	01/28/2010 08:45	**%Moisture:**	31.1
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-7883	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	947574	**Inst:**	ECD8A.I	**Dilution:**	1
Run Date:	02/03/2010 21:57	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/01/2010 19:57	**Aliquot:**	30.01 g	**Final Volume:**	1 mL
Data File:	058f5801.d	**Column:**	1 CLP1	**Level:**	LOW
	058b5801.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.83	ug/kg	1.61	4.83	1
11104-28-2	Aroclor-1221	U	4.83	ug/kg	1.61	4.83	1
11141-16-5	Aroclor-1232	U	4.83	ug/kg	1.61	4.83	1
53469-21-9	Aroclor-1242	U	4.83	ug/kg	1.61	4.83	1
12672-29-6	Aroclor-1248	U	4.83	ug/kg	1.61	4.83	1
11097-69-1	Aroclor-1254	J	3.90	ug/kg	1.61	4.83	2
11096-82-5	Aroclor-1260	U	4.83	ug/kg	1.61	4.83	1

LMF
3/5/10

Page 1 of 1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1432	**Date Collected:**	01/25/2010 12:00	**Matrix:**	R
Lab Sample ID:	245686002	**Date Received:**	01/28/2010 08:45	**%Moisture:**	5.8
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-7884	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	947574	**Inst:**	ECD8A.I	**Dilution:**	1
Run Date:	02/02/2010 21:53	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/01/2010 19:57	**Aliquot:**	30.08 g	**Final Volume:**	1 mL
Data File:	049f4901.d	**Column:**	1 CLP1	**Level:**	LOW
	049b4901.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ		Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53		1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53		1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53		1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53		1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53		1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53		1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	UJ,P7c	1

LMF
3/5/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686013**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**3.6**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-8056**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 22:06**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.02 g**	**Final Volume:**	**1 mL**
Data File:	**050f5001.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	050b5001.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ		Column
12674-11-2	Aroclor-1016	U	3.45	ug/kg	1.15	3.45		1
11104-28-2	Aroclor-1221	U	3.45	ug/kg	1.15	3.45		1
11141-16-5	Aroclor-1232	U	3.45	ug/kg	1.15	3.45		1
53469-21-9	Aroclor-1242	U	3.45	ug/kg	1.15	3.45		1
12672-29-6	Aroclor-1248	U	3.45	ug/kg	1.15	3.45		1
11097-69-1	Aroclor-1254	U	3.45	ug/kg	1.15	3.45		1
11096-82-5	Aroclor-1260	U	3.45	ug/kg	1.15	3.45	UJ,P7c	1

LMF
3/5/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1432	**Date Collected:**	01/25/2010 12:00	**Matrix:**	R
Lab Sample ID:	245686014	**Date Received:**	01/28/2010 08:45	**%Moisture:**	29.8
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-8057	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	947574	**Inst:**	ECD8A.I	**Dilution:**	1
Run Date:	02/02/2010 22:18	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/01/2010 19:57	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	051f5101.d	**Column:**	1 CLP1	**Level:**	LOW
	051b5101.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ		Column
12674-11-2	Aroclor-1016	U	4.72	ug/kg	1.57	4.72		1
11104-28-2	Aroclor-1221	U	4.72	ug/kg	1.57	4.72		1
11141-16-5	Aroclor-1232	U	4.72	ug/kg	1.57	4.72		1
53469-21-9	Aroclor-1242	U	4.72	ug/kg	1.57	4.72		1
12672-29-6	Aroclor-1248	U	4.72	ug/kg	1.57	4.72		1
11097-69-1	Aroclor-1254	U	4.72	ug/kg	1.57	4.72		1
11096-82-5	Aroclor-1260	U	4.72	ug/kg	1.57	4.72	UJ,P7c	1

LMF
3/5/10

Wednesday, January 27, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1432

REQUEST NUMBER: 10-1432

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 2/26/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS: 245686%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7883	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7884	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7932	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7931	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7938	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7933	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7939	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7936	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7935	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7934	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7940	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7937	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8056	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8057	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	1/27/10	1400	Patricia Dover-Dent P. W. Dent	1-28-10	08:45
Printed Name / Signature			Printed Name / Signature		
Printed Name / Signature			Printed Name / Signature		
Printed Name / Signature			Printed Name / Signature		

Received for DISPOSAL By: **Date** **Time** **Remarks:**

Printed Name Signature

Wednesday, January 27, 2010

REQUEST NUMBER: 10-1432

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:10-1432
Per Agreement Number:126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/27/2010
TURNAROUND/REPORT DUE: 2/26/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7883	R	1/25/2010	
		1	RE15-10-7884	R	1/25/2010	
		1	RE15-10-8056	R	1/25/2010	
		1	RE15-10-8057	R	1/25/2010	
	SW-846:8321A_MOD	1	RE15-10-7883	R	1/25/2010	
		1	RE15-10-7884	R	1/25/2010	
		1	RE15-10-7931	R	1/25/2010	
		1	RE15-10-7932	R	1/25/2010	
		1	RE15-10-7933	R	1/25/2010	

Wednesday, January 27, 2010

REQUEST NUMBER: 10-1432

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-7934	R	1/25/2010	
		1	RE15-10-7935	R	1/25/2010	
		1	RE15-10-7936	R	1/25/2010	
		1	RE15-10-7937	R	1/25/2010	
		1	RE15-10-7938	R	1/25/2010	
		1	RE15-10-7939	R	1/25/2010	
		1	RE15-10-7940	R	1/25/2010	
		1	RE15-10-8056	R	1/25/2010	
		1	RE15-10-8057	R	1/25/2010	

Final Page of REQUEST NUMBER 10-1432

GEL Laboratories LLC

a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

February 01, 2010

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: 245686
SDG: 10-1432

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 28, 2010, and analyzed for Explosives by LCMSMS and GC Semivolatile PCB. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Sincerely,

for

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1432
Enclosures

problem solved

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 245686
SDG: 10-1432

TABLE OF CONTENTS

Case Narrative.....1

Chain of Custody and Supporting Documentation..... 5

Data Review Qualifier Flag Definition Sheet..... 14

LC/MS/MS Explosives Analysis.....16
- Sample Data Summary.....23
- Quality Control Summary.....52
- Sample Data..... 158
- Standards Data.....257
- Quality Control Data.....443
- Miscellaneous Data.....475

GC Semivolatile PCB Analysis.....489
- Sample Data Summary.....496
- Quality Control Summary.....501
- Sample Data..... 507
- Standards Data.....534
- Quality Control Data.....655
- Miscellaneous Data.....668

Case Narrative

Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 245686
SDG # : 10-1432

February 01, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on January 28, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

Laboratory ID	Client ID
245686001	RE15-10-7883
245686002	RE15-10-7884
245686003	RE15-10-7932
245686004	RE15-10-7931
245686005	RE15-10-7938
245686006	RE15-10-7933
245686007	RE15-10-7939
245686008	RE15-10-7936
245686009	RE15-10-7935
245686010	RE15-10-7934
245686011	RE15-10-7940
245686012	RE15-10-7937
245686013	RE15-10-8056
245686014	RE15-10-8057

Case Narrative

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

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

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

for

Valerie Davis

Project Manager

List of current GEL Certifications as of 01 February 2010

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

Chain of Custody and Supporting Documentation

Wednesday, January 27, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1432

REQUEST NUMBER: 10-1432

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc.,
Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 2/26/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS: 245686

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7883	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7884	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7932	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7931	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7938	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7933	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7939	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7936	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7935	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7934	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7940	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7937	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8056	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8057	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:		Date	Time	Received By:		Date	Time
Jennifer Sy		1/27/10	1400	Patricia Dover-Dent P.Dover-Dent		1-28-10	08:45
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		

Received for DISPOSAL By: **Date** **Time** **Remarks:**

Printed Name Signature

Wednesday, January 27, 2010

REQUEST NUMBER: 10-1432

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:10-1432

Per Agreement Number:126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples

according to the schedule indicated:

SHIP DATE: 1/27/2010

TURNAROUND/REPORT DUE: 2/26/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7883	R	1/25/2010	
		1	RE15-10-7884	R	1/25/2010	
		1	RE15-10-8056	R	1/25/2010	
		1	RE15-10-8057	R	1/25/2010	
	SW-846:8321A_MOD	1	RE15-10-7883	R	1/25/2010	
		1	RE15-10-7884	R	1/25/2010	
		1	RE15-10-7931	R	1/25/2010	
		1	RE15-10-7932	R	1/25/2010	
		1	RE15-10-7933	R	1/25/2010	

Wednesday, January 27, 2010

REQUEST NUMBER: 10-1432

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-7934	R	1/25/2010	
		1	RE15-10-7935	R	1/25/2010	
		1	RE15-10-7936	R	1/25/2010	
		1	RE15-10-7937	R	1/25/2010	
		1	RE15-10-7938	R	1/25/2010	
		1	RE15-10-7939	R	1/25/2010	
		1	RE15-10-7940	R	1/25/2010	
		1	RE15-10-8056	R	1/25/2010	
		1	RE15-10-8057	R	1/25/2010	

Final Page of REQUEST NUMBER 10-1432

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL	**SDG/ARCOC/Work Order: 10-1432**
Received By: Patricia Dover-Dent	**Date Received: January 28, 2009**

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*: **40 CPM**
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken / damaged container / leaking container / other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags / **blue ice** / dry ice / **none** / other (describe) **0-3** **12-14C**
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: **time written on containers, not on COC**
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#S

7209 7849 7165 0C
7209 7849 7132 1C
7209 7849 7187 1C
7209 7849 7257 1C
7209 7849 7143 2C
7209 7849 7154 2C
7209 7849 7176 2C
7209 7849 7202 2C
7209 7849 7198 3C
7209 7849 7268 3C
7209 7849 7110 12C
7209 7849 7095 13C
7209 7849 7121 13C
7209 7849 7100 14C

PM (or PMA) review: Initials _____ Date 1/29/10

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: 27JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWK0

0c

FedEx Express

3 of 3
MPS# 0263 7209 7849 7165
Mstr# 7209 7849 7143 0201

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

Part # 156148-434 NRIT V3.04-08

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: 27JAN10
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0352VA00

1C

FedEx Express

2 of 2
7209 7849 7132
Mstr# 7209 7849 7121 0201

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

Part # 156148-434 NRIT V3.04-08

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: 27JAN10
ACTWGT: 60.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWG0

1c

FedEx Express

1 of 2
TRK# 0201 7209 7849 7187
MASTER

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

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: 27JAN10
ACTWGT: 46.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A0515BYD0

1C

FedEx Express

1 of 2
TRK# 0201 7209 7849 7257
MASTER

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

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: 27JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWKO

2c

FedEx Express

1 of 3

TRK# 0201 7209 7849 7143

MASTER

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

Part # 156148-434 NRIT V3 04-08

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: 27JAN10
ACTWGT: 44.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWKO

2c

FedEx Express

2 of 3

MPS# 0263 7209 7849 7154
Mstr# 7209 7849 7143 0201

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

Part # 156148-434 NRIT V3 04-08

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: 27JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWKO

2c

FedEx Express

TRK# 0201 7209 7849 7176

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US

XX CHSA

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: 27JAN10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

°VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWGO

2c

FedEx Express

TRK# 0201 7209 7849 7202

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US

XX CHSA

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: 27JAN10
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWGO

3c

FedEx Express

2 of 2
MPS# 0263 7209 7849 7198
Mstr# 7209 7849 7187 0201

THU - 28JAN A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

Part # 156148-434 NRIT V3 04-0

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: 27JAN10
ACTWGT: 35.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A05158YDO

3c

FedEx Express

2 of 2
MPS# 0263 7209 7849 7268
Mstr# 7209 7849 7257 0201

THU - 28JAN A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

Part # 156148-434 NRIT V3 04-0

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: 27JAN10
ACTWGT: 59.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A05529E00

12c

FedEx Express

TRK# 0201 7209 7849 7110

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US

XX CHSA

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: 27JAN10
ACTWGT: 60.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A05529E00

13c

FedEx Express

2 of 3
MPS# 0263 7209 7849 7095
Mstr# 7209 7849 7084 0201

THU - 28JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

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: 27JAN10
ACTWGT: 59.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0352VA00

13c

FedEx Express

1 of 2
TRK# 0201 7209 7849 7121
MASTER

THU - 28JAN A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

Part # 156148-434 NRIT V3 04-05

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: 27JAN10
ACTWGT: 59.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A05529E00

14c

FedEx Express

3 of 3
MPS# 0263 7209 7849 7100
Mstr# 7209 7849 7084 0201

THU - 28JAN A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US

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.

P.O. Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178 www.gel.com

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

LC/MS/MS EXPLOSIVES ANALYSIS

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

LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1432

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:	947078
Prep Batch Number:	947076

Sample Analysis

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

Sample ID	Client ID
245686001	RE15-10-7883
245686002	RE15-10-7884
245686003	RE15-10-7932
245686004	RE15-10-7931
245686005	RE15-10-7938
245686006	RE15-10-7933
245686007	RE15-10-7939
245686008	RE15-10-7936
245686009	RE15-10-7935
245686010	RE15-10-7934
245686011	RE15-10-7940
245686012	RE15-10-7937
245686013	RE15-10-8056

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

245686014	RE15-10-8057
1202028672	Method Blank (MB)
1202028673	Laboratory Control Sample (LCS)
1202028674	245686001(RE15-10-7883) Matrix Spike (MS)
1202028675	245686001(RE15-10-7883) 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 48.5%. The limits are 51-112%. The MS and MSD both have passing recoveries for Tetryl. The data are reported. Please see data exception report 791265.

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

QC Sample Designation
Sample 245686001 (RE15-10-7883) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement
The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance
The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information

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

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Secondary Analyte Analysis

Calibration Information

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

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

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.

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

Quality Control (QC) Information

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

Surrogate Recoveries
Sample 245686014 (RE15-10-8057) did not meet acceptance criteria for surrogate recovery in the Secondary analyte analysis at 149%. The limits are 70-144%. The sample had a passing surrogate recovery of 121% in the Primary analyte analysis. The sample did have any detects of target analytes. The data are considered unaffected and are reported. Please see data exception report 791265.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation
Sample 245686001 (RE15-10-7883) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement
The MS recovered TATB at 189%. The limits are 29-155%. The LCS and MSD have 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 791265.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance
The internal standards were not added to the secondary analyte extracts.

Technical Information

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

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis
The SDG was re-analyzed due to high CCV recoveries. The re-analysis passed acceptance criteria and is reported.

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

Miscellaneous Information

Data Exception (DER) Documentation
Data exception report 791265 was generated for this SDG.

Sample 245686014 (RE15-10-8057) did not meet acceptance criteria for surrogate recovery in the Secondary analyte analysis at 149%. The limits are 70-144%. The sample had a passing surrogate recovery of 121% in the Primary analyte analysis. The sample did have any detects of target analytes. The data are considered unaffected and are reported.

The LCS recovered Tetryl at 48.5%. The limits are 51-112%. The MS and MSD both have passing recoveries for Tetryl. The data are reported.

The MS recovered TATB at 189%. The limits are 29-155%. The LCS and MSD have passing recoveries for TATB. TATB was not detected in the parent sample. The data are considered unaffected and are reported.

Manual Integrations
Some initial calibration standards, continuing calibration standards, and/or samples may require 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.

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

Chromatographic Columns

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

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

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

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

Certification Statement

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

Review Validation:

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

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

Reviewer: Herbert K Mauer **Date:** 02/17/10

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

SAMPLE DATA SUMMARY

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686001

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208185a

Date Analyzed: 12-FEB-10 09:14

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686001

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130017.wiff

Date Analyzed: 13-FEB-10 14:24

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7884

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686002

Sample Amount 2

Moisture: 5.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208188a

Date Analyzed: 12-FEB-10 10:43

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7884

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686002

Sample Amount 2

Moisture: 5.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130020.wiff

Date Analyzed: 13-FEB-10 15:11

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7932

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208189a

Date Analyzed: 12-FEB-10 11:13

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7932

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130021.wiff

Date Analyzed: 13-FEB-10 15:26

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7931

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208190a

Date Analyzed: 12-FEB-10 11:42

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7931

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130022.wiff

Date Analyzed: 13-FEB-10 15:42

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7938

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208191a

Date Analyzed: 12-FEB-10 12:12

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7938

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130023.wiff

Date Analyzed: 13-FEB-10 15:58

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7933

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208195a

Date Analyzed: 12-FEB-10 14:10

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7933

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130027.wiff

Date Analyzed: 13-FEB-10 17:01

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7939

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208196a

Date Analyzed: 12-FEB-10 14:40

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7939

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130028.wiff

Date Analyzed: 13-FEB-10 17:16

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7936

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208197a

Date Analyzed: 12-FEB-10 15:09

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7936

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130029.wiff

Date Analyzed: 13-FEB-10 17:32

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7935

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208198a

Date Analyzed: 12-FEB-10 15:38

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	576	
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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7935

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130030.wiff

Date Analyzed: 13-FEB-10 17:48

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7934

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208199a

Date Analyzed: 12-FEB-10 16:08

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7934

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130031.wiff

Date Analyzed: 13-FEB-10 18:03

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7940

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208200a

Date Analyzed: 12-FEB-10 16:38

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7940

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130032.wiff

Date Analyzed: 13-FEB-10 18:19

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7937

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208201a

Date Analyzed: 12-FEB-10 17:07

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7937

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130033.wiff

Date Analyzed: 13-FEB-10 18:35

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8056

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686013

Sample Amount 2

Moisture: 3.6

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208202a

Date Analyzed: 12-FEB-10 17:36

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8056

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686013

Sample Amount 2

Moisture: 3.6

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130034.wiff

Date Analyzed: 13-FEB-10 18:50

Units: ug/kg

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

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8057

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686014

Sample Amount 2

Moisture: 29.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208203a

Date Analyzed: 12-FEB-10 18:06

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8057

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686014

Sample Amount 2

Moisture: 29.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130035.wiff

Date Analyzed: 13-FEB-10 19:06

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

QUALITY CONTROL SUMMARY

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

2

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **HPLC Column:** Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
245686001	RE15-10-7883	109	70 - 144	
245686001	RE15-10-7883	135	70 - 144	
245686002	RE15-10-7884	111	70 - 144	
245686002	RE15-10-7884	129	70 - 144	
245686003	RE15-10-7932	107	70 - 144	
245686003	RE15-10-7932	139	70 - 144	
245686004	RE15-10-7931	111	70 - 144	
245686004	RE15-10-7931	134	70 - 144	
245686005	RE15-10-7938	108	70 - 144	
245686005	RE15-10-7938	135	70 - 144	
245686006	RE15-10-7933	111	70 - 144	
245686006	RE15-10-7933	142	70 - 144	
245686007	RE15-10-7939	99.1	70 - 144	
245686007	RE15-10-7939	140	70 - 144	
245686008	RE15-10-7936	111	70 - 144	
245686008	RE15-10-7936	137	70 - 144	
245686009	RE15-10-7935	103	70 - 144	
245686009	RE15-10-7935	138	70 - 144	
245686010	RE15-10-7934	101	70 - 144	
245686010	RE15-10-7934	138	70 - 144	
245686011	RE15-10-7940	118	70 - 144	
245686011	RE15-10-7940	134	70 - 144	
245686012	RE15-10-7937	120	70 - 144	
245686012	RE15-10-7937	139	70 - 144	
245686013	RE15-10-8056	112	70 - 144	
245686013	RE15-10-8056	134	70 - 144	
245686014	RE15-10-8057	121	70 - 144	
245686014	RE15-10-8057	149	70 - 144	*
1202028672	MB for batch 947076	106	70 - 144	
1202028672	MB for batch 947076	123	70 - 144	
1202028673	LCS for batch 947076	114	70 - 144	
1202028673	LCS for batch 947076	118	70 - 144	
1202028674	RE15-10-7883(245686001MS)	115	70 - 144	
1202028674	RE15-10-7883(245686001MS)	126	70 - 144	
1202028675	RE15-10-7883(245686001MSD)	104	70 - 144	
1202028675	RE15-10-7883(245686001MSD)	125	70 - 144	

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

2

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **HPLC Column:** Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg

DNT = 3,4-Dinitrotoluene

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

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1432

Extract Batch Code: 947076

Date Extracted: 04-FEB-10

GEL LCS ID: 1202028673

GEL LCSDUP ID:

Analysis Date/Time: 12-FEB-10 08:15

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	3850	76.9								69 - 126
2,4,6-Trinitrotoluene	5000	5840	117								73 - 149
2,4-Dinitrotoluene	5000	5210	104								87 - 137
2,6-Dinitrotoluene	5000	4990	99.8								89 - 120
2-Amino-4,6-dinitrotoluene	5000	5190	104								90 - 130
4-Amino-2,6-dinitrotoluene	5000	4660	93.1								84 - 130
HMX	5000	3970	79.4								58 - 138
Nitrobenzene	5000	4570	91.4								71 - 122
PETN	5000	6230	125								64 - 137
RDX	5000	4260	85.3								81 - 137
Tetryl	5000	2430	48.5	*							51 - 112
m-Dinitrobenzene	5000	5000	99.9								83 - 122
m-Nitrotoluene	5000	4470	89.4								73 - 118
o-Nitrotoluene	5000	4650	93								72 - 119
p-Nitrotoluene	5000	4580	91.5								67 - 131

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

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

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1432

Extract Batch Code: 947076

Date Extracted: 04-FEB-10

GEL LCS ID: 1202028673

GEL LCSDUP ID:

Analysis Date/Time: 13-FEB-10 13:52

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,4-Diamino-6-nitrotoluene	5000	4660	93.2					52 - 114
2,6-Diamino-4-nitrotoluene	5000	5210	104					64 - 122
3,5-Dinitroaniline	5000	5530	111					70 - 127
TATB	5000	7100	142					28 - 162
tris(o-cresyl) phosphate	5000	5200	104					84 - 119

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

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

3

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Extract Batch Code: 947076

Date Extracted:04-FEB-10

GEL Spike ID:1202028674

GEL SpikeDup ID:1202028675

Analysis Date/Time: 12-FEB-10 09:44

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
1,3,5-Trinitrobenzene	5000	0	4350	86.9	4710	94.2	8.11	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	6410	128	5050	101	23.8	30	76 - 144
2,4-Dinitrotoluene	5000	0	5010	100	5510	110	9.55	30	86 - 135
2,6-Dinitrotoluene	5000	0	5070	101	5060	101	.173	30	90 - 118
2-Amino-4,6-dinitrotoluene	5000	0	5200	104	5100	102	1.92	30	85 - 137
4-Amino-2,6-dinitrotoluene	5000	0	4900	97.9	4720	94.4	3.69	30	72 - 143
HMX	5000	0	4280	85.6	4890	97.7	13.3	30	51 - 144
Nitrobenzene	5000	0	5030	101	5120	102	1.73	30	70 - 122
PETN	5000	0	6370	127	5850	117	8.61	30	60 - 140
RDX	5000	0	4730	94.7	5370	107	12.6	30	59 - 152
Tetryl	5000	0	3490	69.8	3450	69	1.13	30	36 - 124
m-Dinitrobenzene	5000	0	5040	101	5380	108	6.55	30	85 - 118
m-Nitrotoluene	5000	0	4420	88.5	4090	81.9	7.75	30	70 - 120
o-Nitrotoluene	5000	0	4650	93	4500	89.9	3.41	30	69 - 123
p-Nitrotoluene	5000	0	4860	97.2	4430	88.6	9.22	30	65 - 133

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

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

3

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Extract Batch Code: 947076

Date Extracted:04-FEB-10

GEL Spike ID: 1202028674

GEL SpikeDup ID:1202028675

Analysis Date/Time: 13-FEB-10 14:39

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	4520	90.4	4330	86.6	4.29	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	5350	107	4780	95.6	11.3	30	55 - 130
3,5-Dinitroaniline	5000	0	6110	122	5530	111	9.97	30	73 - 129
TATB	5000	0	9430	189 *	7460	149	23.3	30	29 - 155
tris(o-cresyl) phosphate	5000	0	5320	106	5130	103	3.64	30	72 - 127

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

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

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-FEB-10 14:44

GEL Data File: EXP0208001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

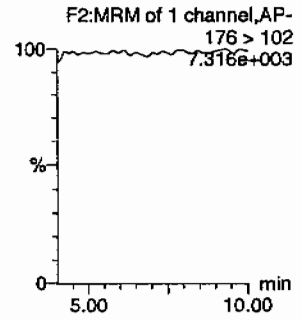
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	481.075
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	515.914
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

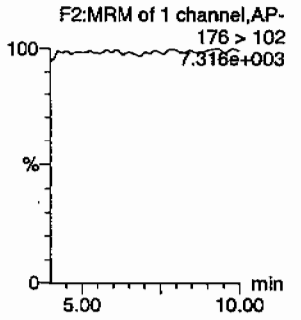
Method: C:\MASSLYNX\New_Exp.PRO\MethDB\020810expa.mdb, Time: Tue Feb 09 09:17:48 2010
Calibration: Untitled, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208001a
Date: 08-Feb-2010
Time: 14:44:17
ID: XIBLK01
Vial: 1:1,A

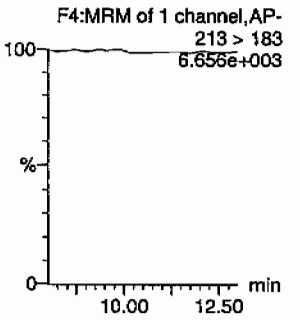
HMX



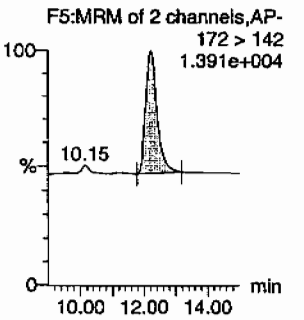
RDX



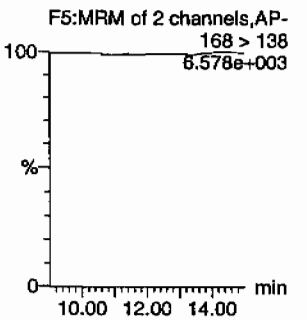
135-Trinitrobenzene



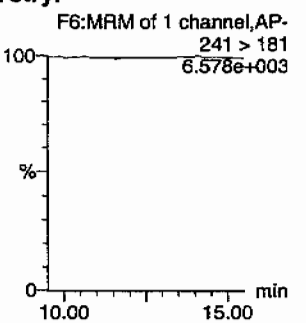
13-Dinitrobenzene-d4



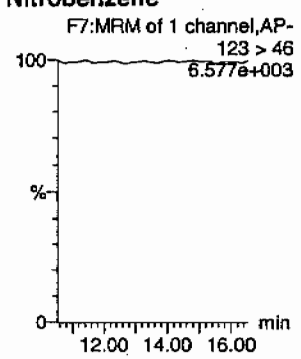
13-Dinitrobenzene



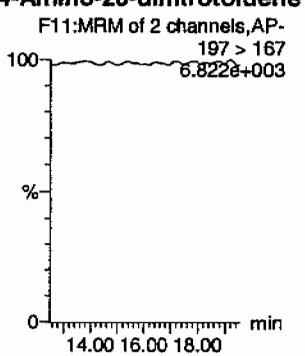
Tetryl



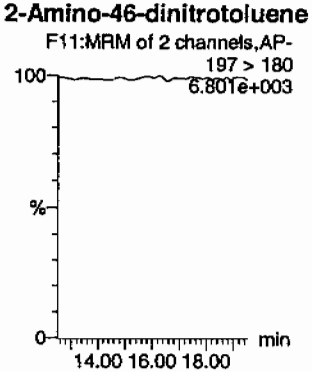
Nitrobenzene



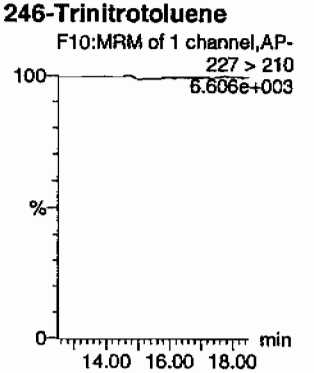
4-Amino-26-dinitrotoluene



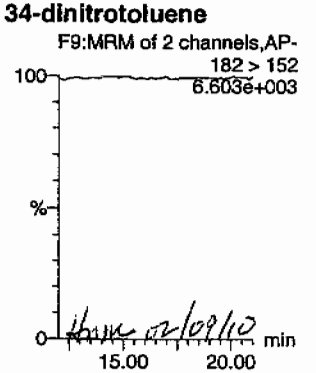
2-Amino-46-dinitrotoluene



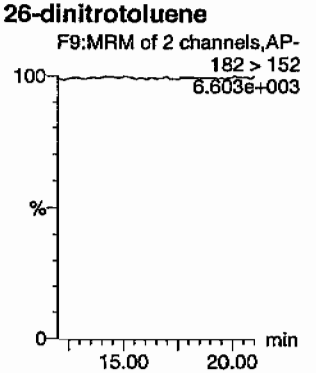
246-Trinitrotoluene



34-dinitrotoluene

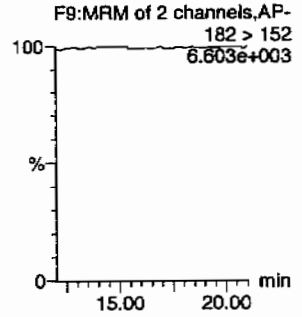


26-dinitrotoluene

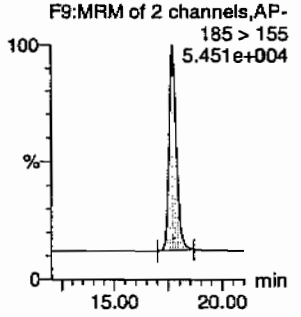


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

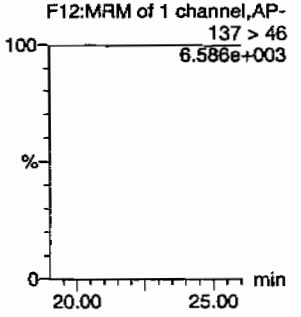
24-dinitrotoluene



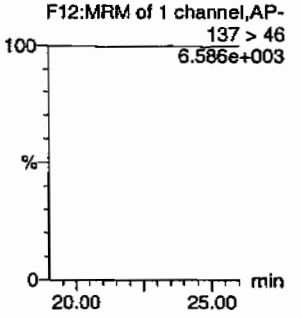
26-dinitrotoluene-d3



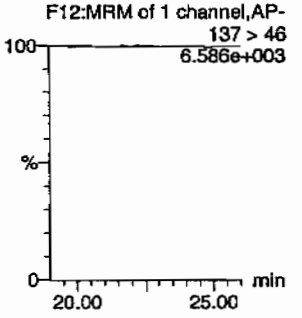
2-Nitrotoluene



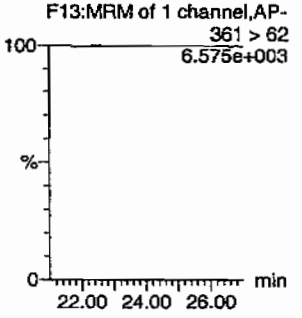
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs:Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102			3092.901									
XIBLK01	RDX	176 > 102			3092.901									
XIBLK01	135-Trinitrobenzene	213 > 183			3092.901									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.20	3092.901		3092.901	3092.901	bb			481.0748	96.2	-3.8	573.7
XIBLK01	13-Dinitrobenzene	168 > 138			3092.901									
XIBLK01	Tetryl	241 > 181			3092.901									
XIBLK01	Nitrobenzene	123 > 46			3092.901									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			19047.234									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			19047.234									
XIBLK01	246-Trinitrotoluene	227 > 210			19047.234									
XIBLK01	34-dinitrotoluene	182 > 152			19047.234									
XIBLK01	26-dinitrotoluene	182 > 152			19047.234									
XIBLK01	24-dinitrotoluene	182 > 152			19047.234									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.71	19047.234		19047.234	19047.234	bb			515.9145	103.2	3.2	1409.8
XIBLK01	2-Nitrotoluene	137 > 46			19047.234									
XIBLK01	4-Nitrotoluene	137 > 46			19047.234									
XIBLK01	3-Nitrotoluene	137 > 46			19047.234									
XIBLK01	PETN	361 > 62			19047.234									

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

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

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-FEB-10 15:13

GEL Data File: EXP0208002a

Instrument ID: LCMSMS

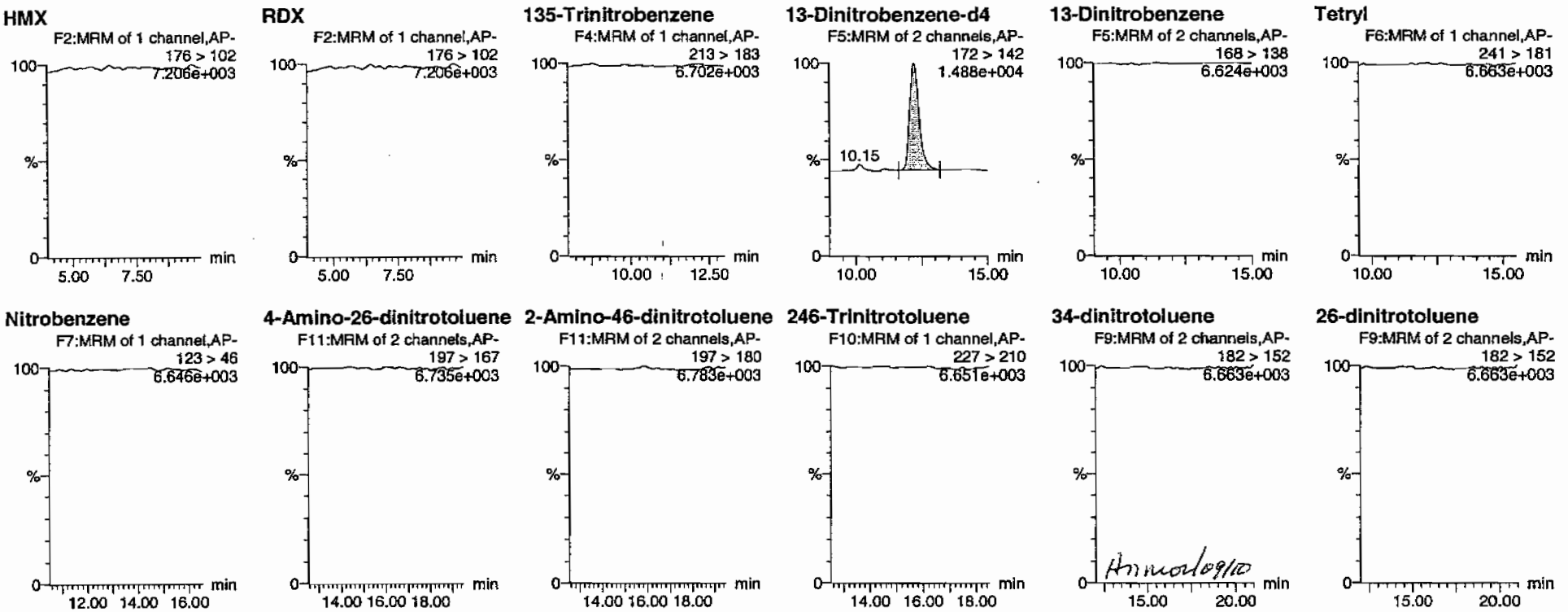
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
PETN	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	552.32
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	568.377
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208002a
Date: 08-Feb-2010
Time: 15:13:49
ID: XIBLK01
Vial: 1:1,A

MAP 2/9/10

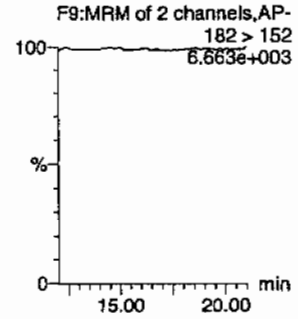


Annual 09/10

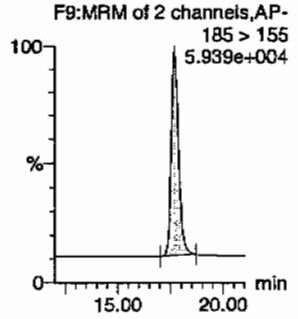
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

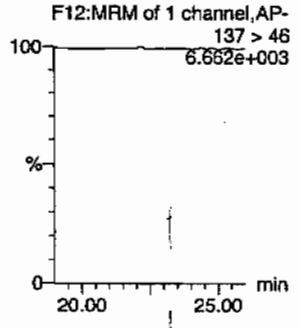
24-dinitrotoluene



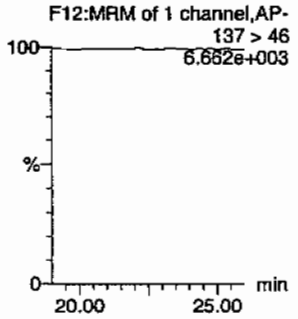
26-dinitrotoluene-d3



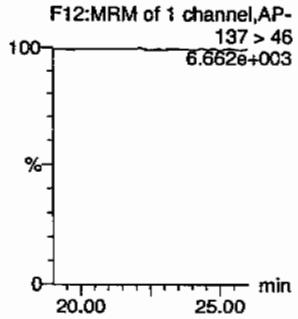
2-Nitrotoluene



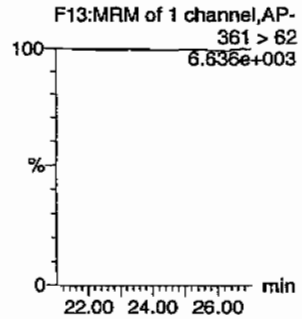
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102			3550.947									
XIBLK01	RDX	176 > 102			3550.947									
XIBLK01	135-Trinitrobenzene	213 > 183			3550.947									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.20	3550.947		3550.947	3550.947	bb			552.3201	110.5	10.5	593.6
XIBLK01	13-Dinitrobenzene	168 > 138			3550.947									
XIBLK01	Tetryl	241 > 181			3550.947									
XIBLK01	Nitrobenzene	123 > 46			3550.947									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			20984.104									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			20984.104									
XIBLK01	246-Trinitrotoluene	227 > 210			20984.104									
XIBLK01	34-dinitrotoluene	182 > 152			20984.104									
XIBLK01	26-dinitrotoluene	182 > 152			20984.104									
XIBLK01	24-dinitrotoluene	182 > 152			20984.104									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.72	20984.104		20984.104	20984.104	bb			568.3767	113.7	13.7	1591.1
XIBLK01	2-Nitrotoluene	137 > 46			20984.104									
XIBLK01	4-Nitrotoluene	137 > 46			20984.104									
XIBLK01	3-Nitrotoluene	137 > 46			20984.104									
XIBLK01	PETN	361 > 62			20984.104									

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

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

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10–1432

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 13–FEB–10 10:12

GEL Data File: EXS02130001.wiff

Instrument ID: LCMSMS

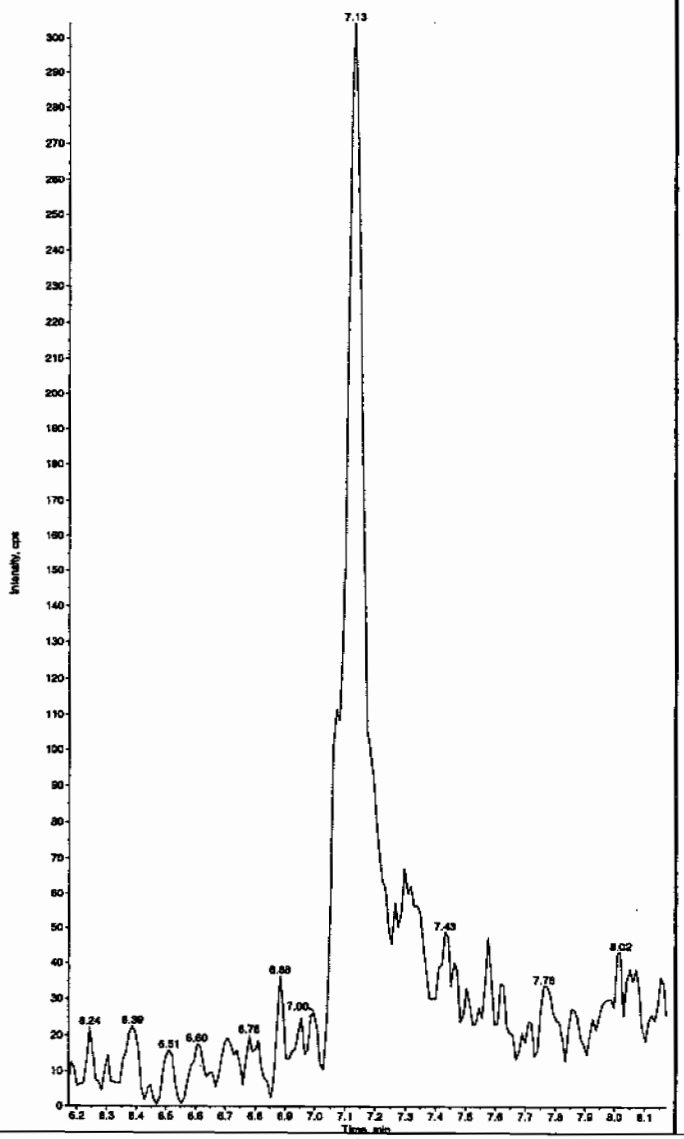
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	.56
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Lar 2/15/10

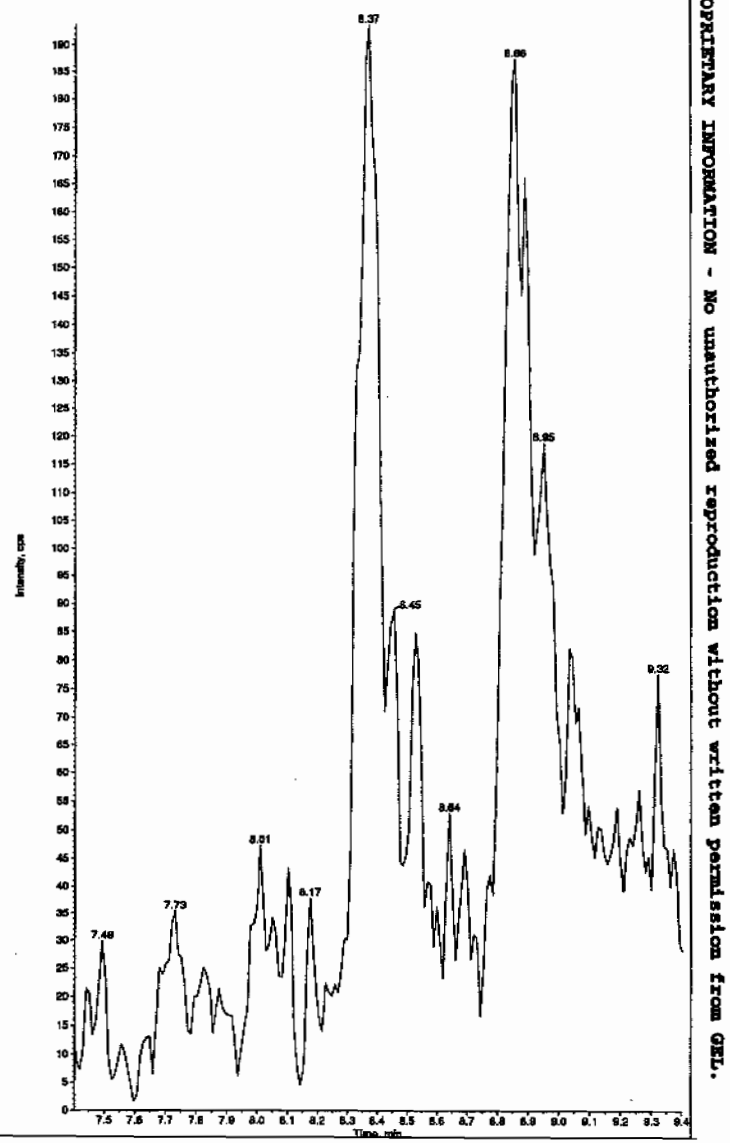
Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02130001.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:12:45 AM

Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02130001.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:12:45 AM

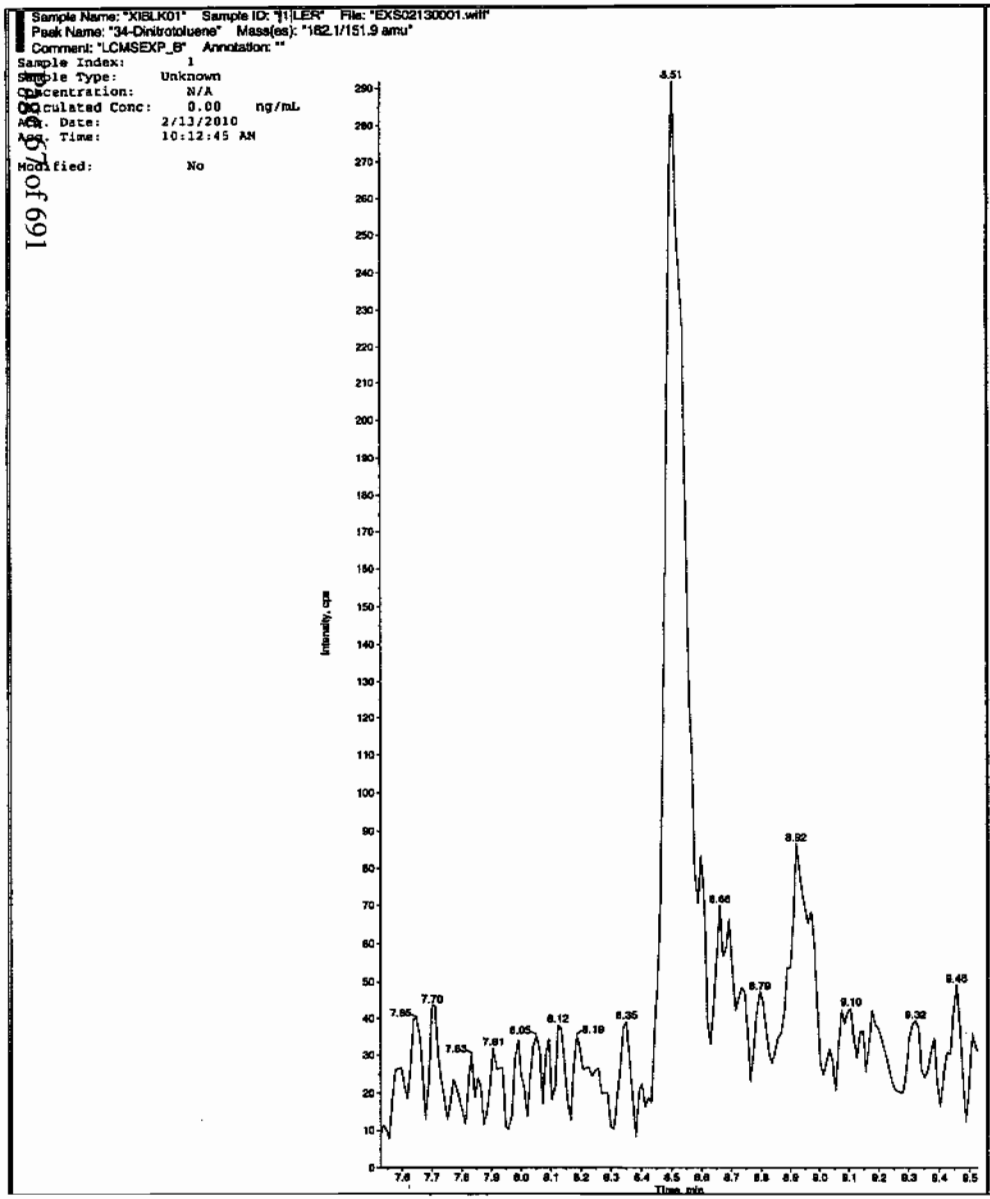
Modified: No

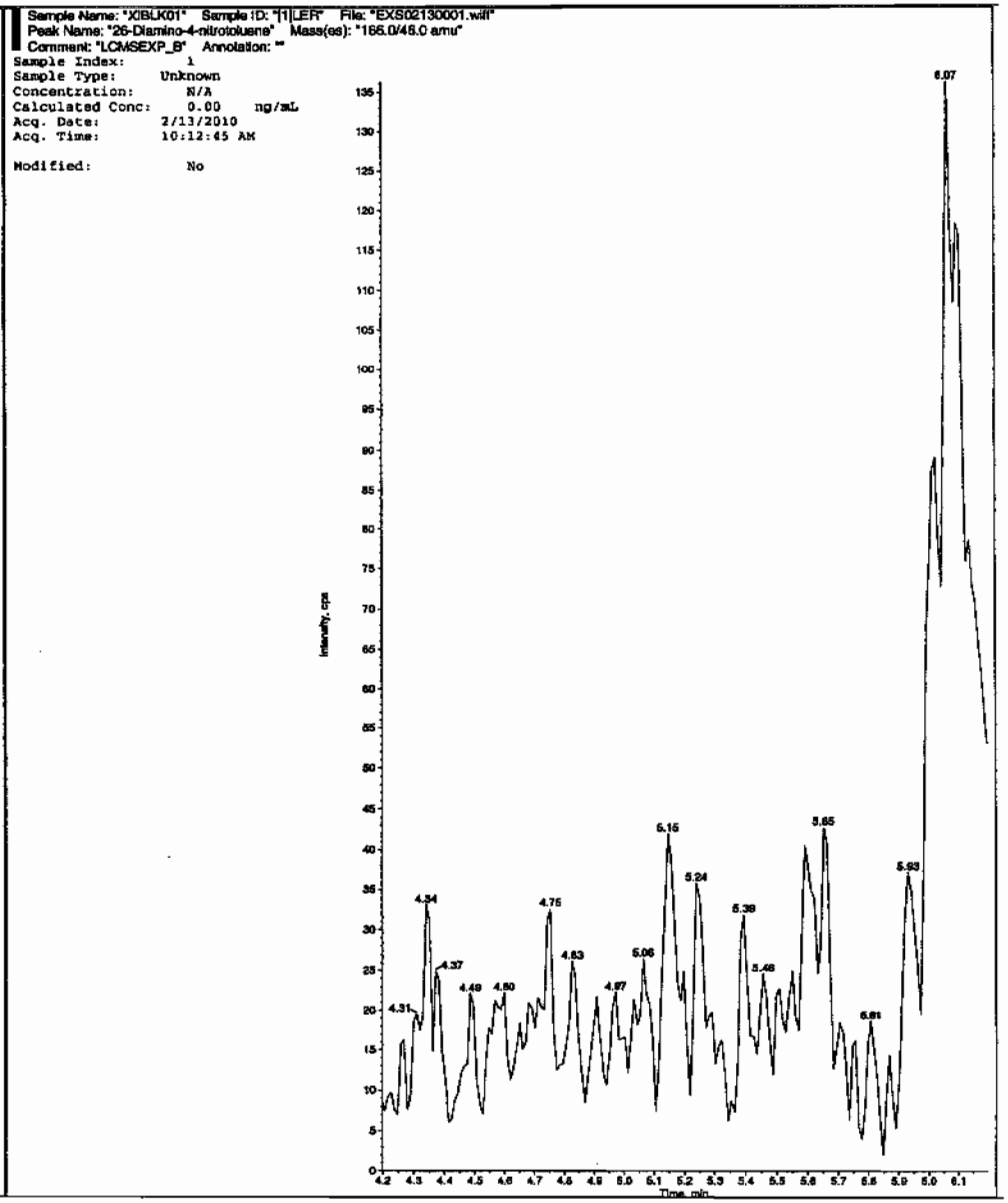


Hum 02/15/10

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

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



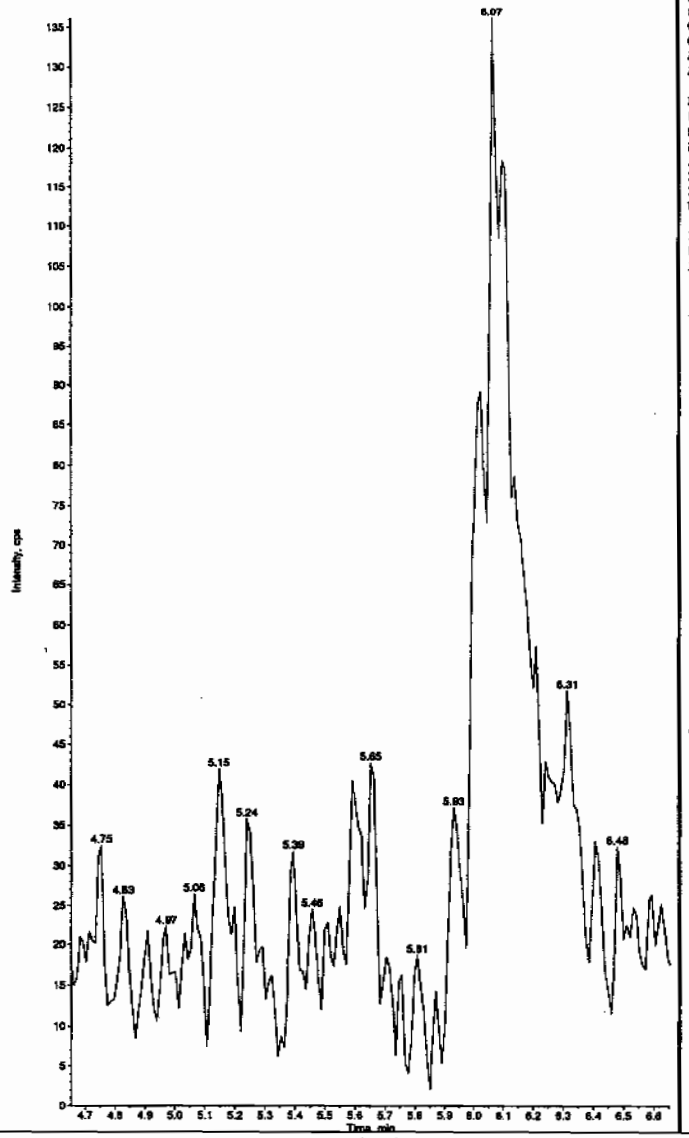


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

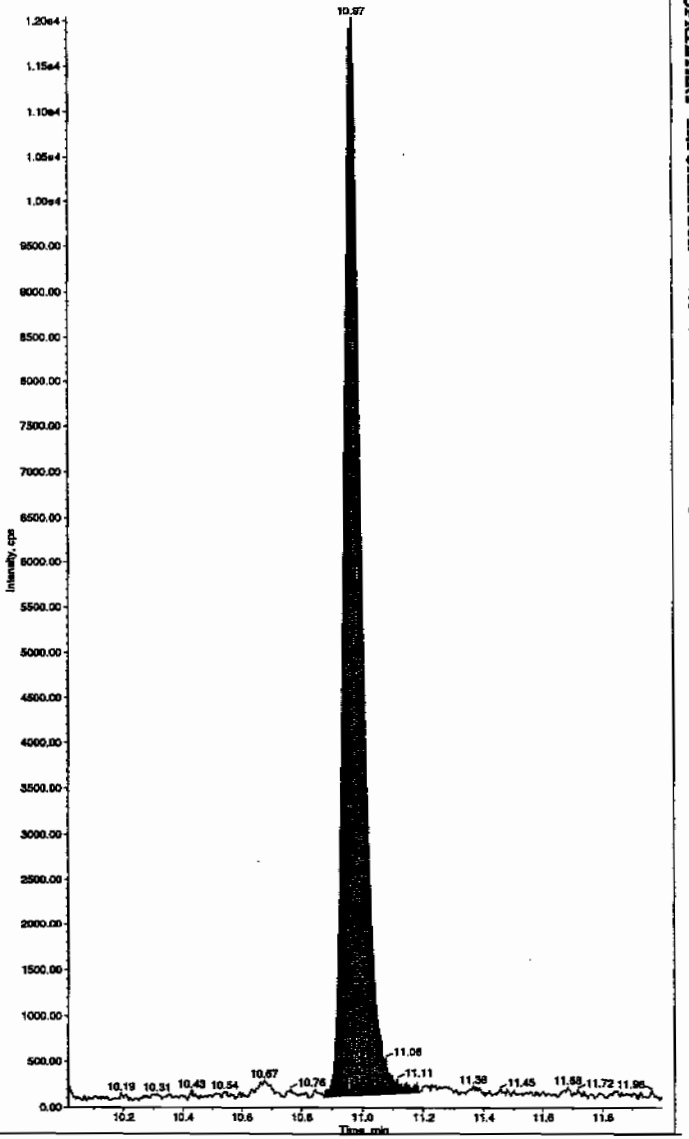
Sample Name: "XIBLK01" Sample ID: "1|1|LER" File: "EXS02130001.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	10:12:45 AM
Modified:	No



Sample Name: "XIBLK01" Sample ID: "1|1|LER" File: "EXS02130001.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.560 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	10:12:45 AM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	5.00e+004 counts
Height:	11916.587 cps
Start Time:	10.9 min
End Time:	11.2 min



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

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

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

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 13-FEB-10 10:28

GEL Data File: EXS02130002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

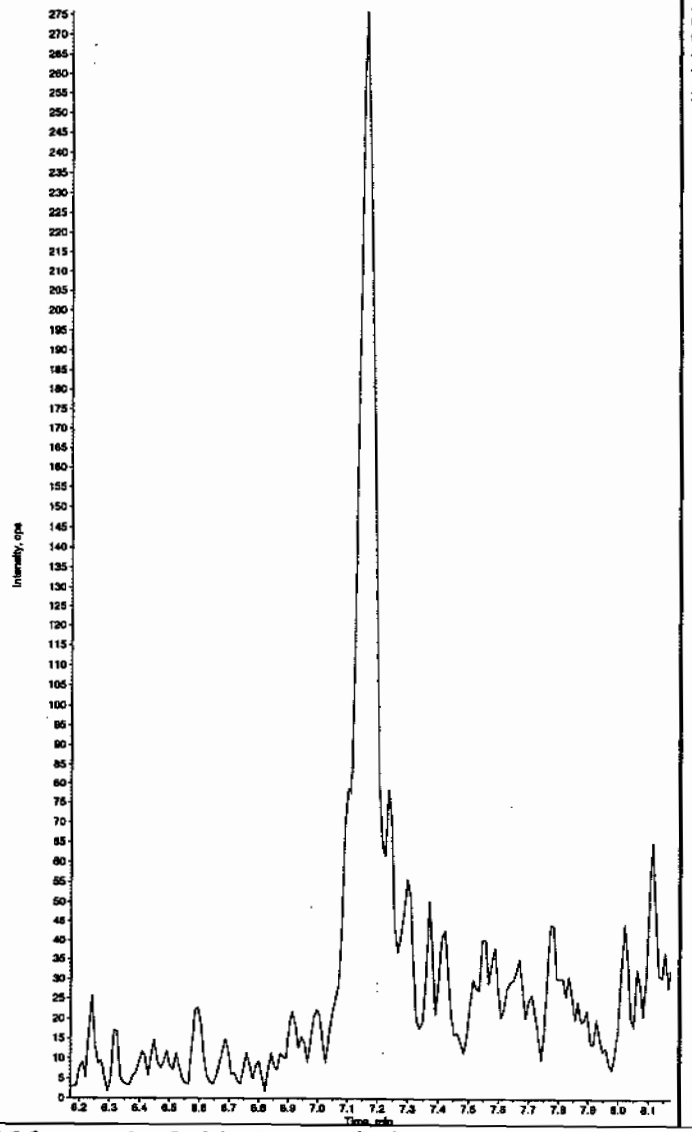
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Lan 2/15/10

Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS02130002.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:28:33 AM

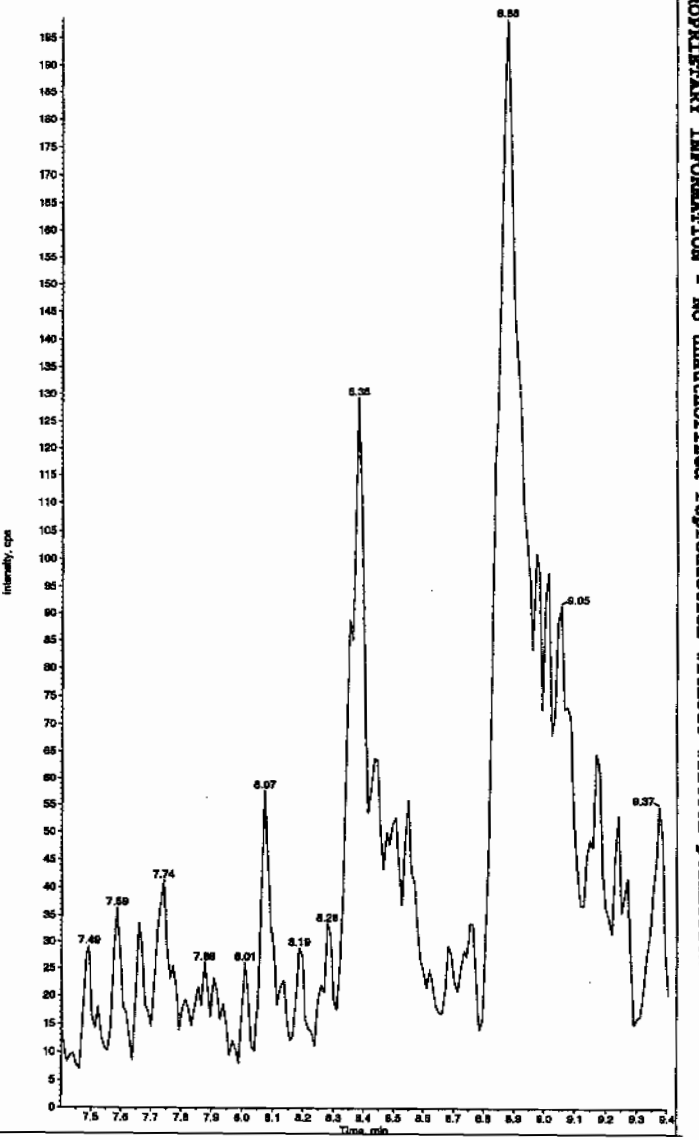
Modified: No



Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS02130002.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:28:33 AM

Modified: No



Hnm 02/15/10

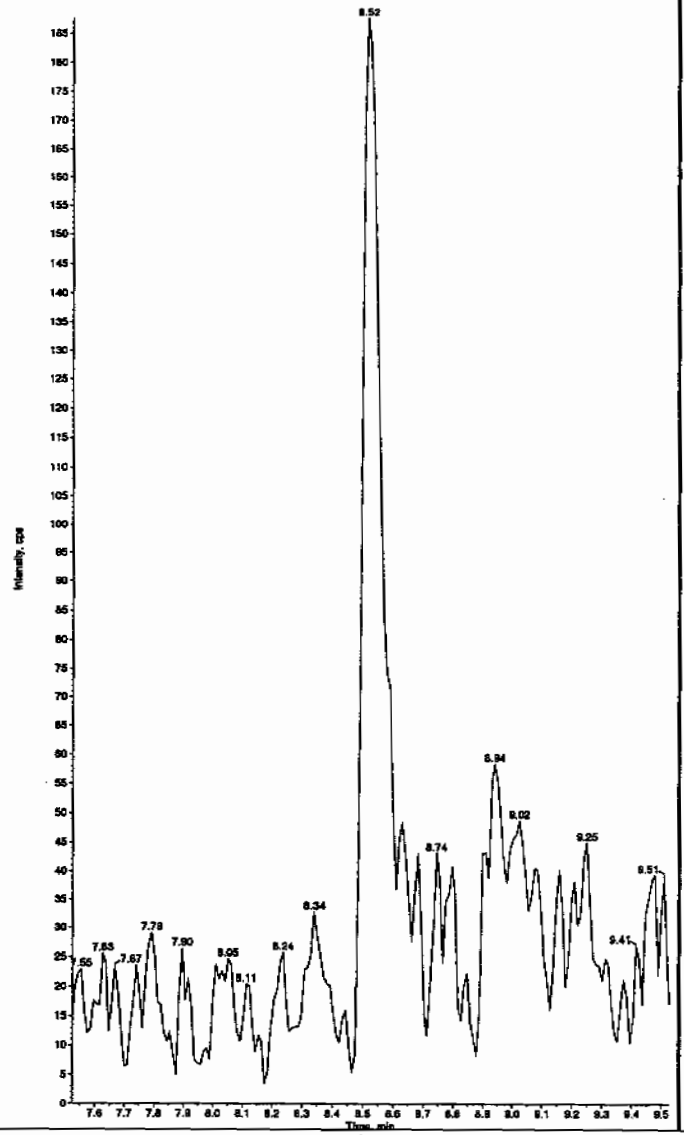
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02130002.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:26:33 AM

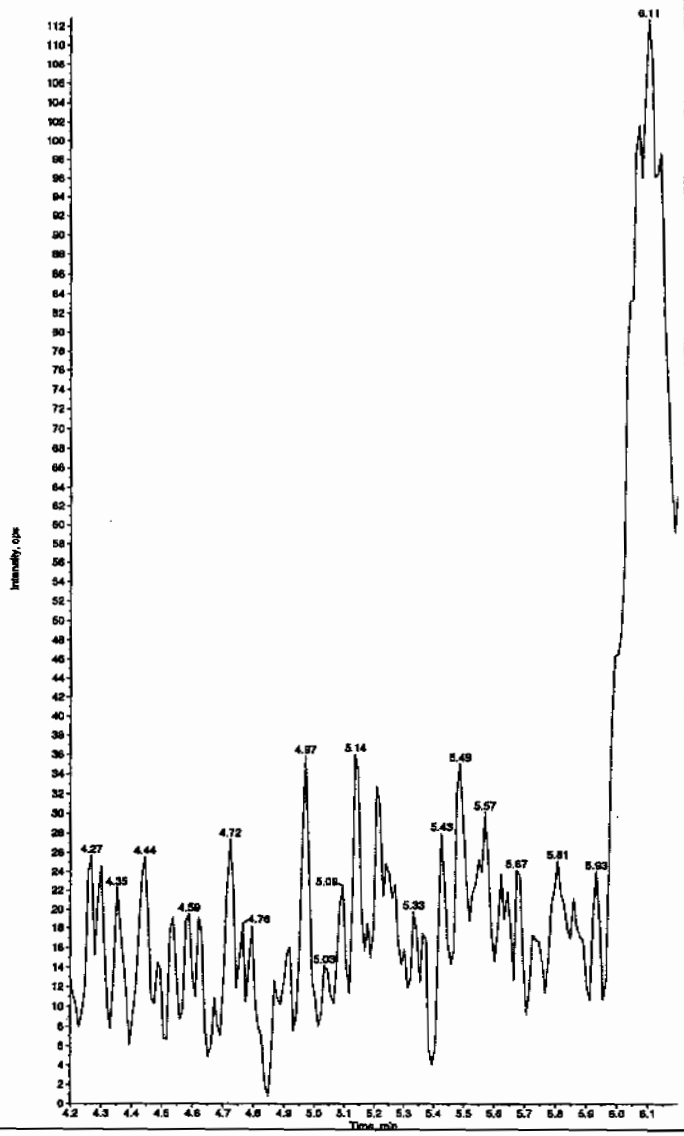
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02130002.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:28:33 AM

Modified: No



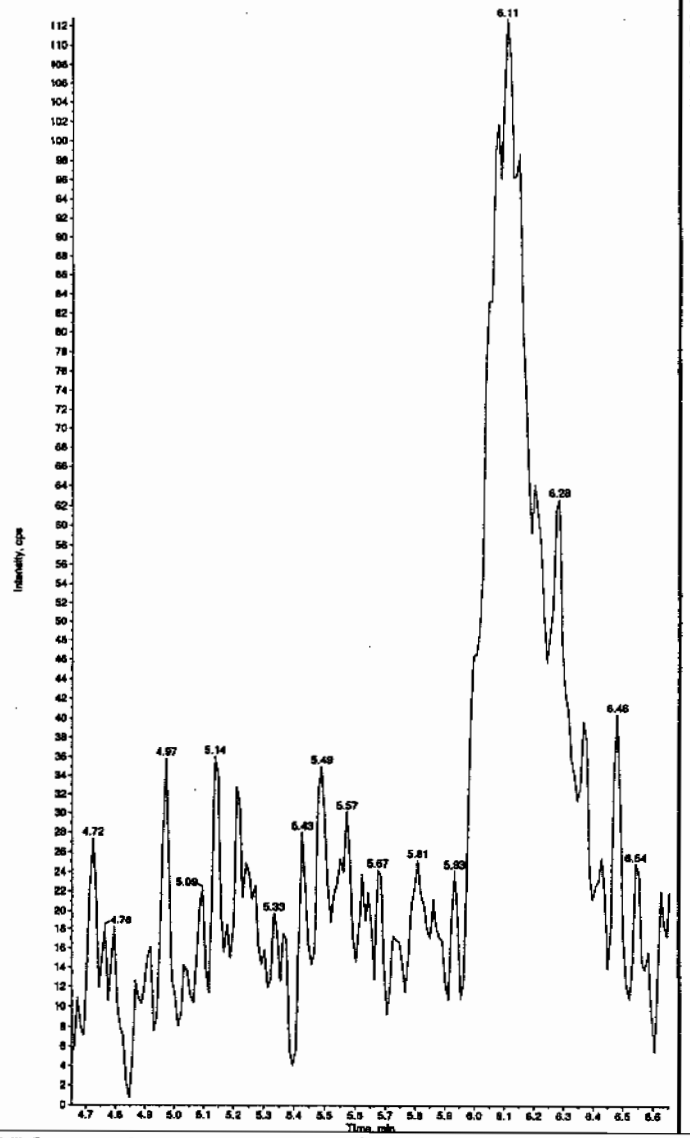
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02130002.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:28:33 AM

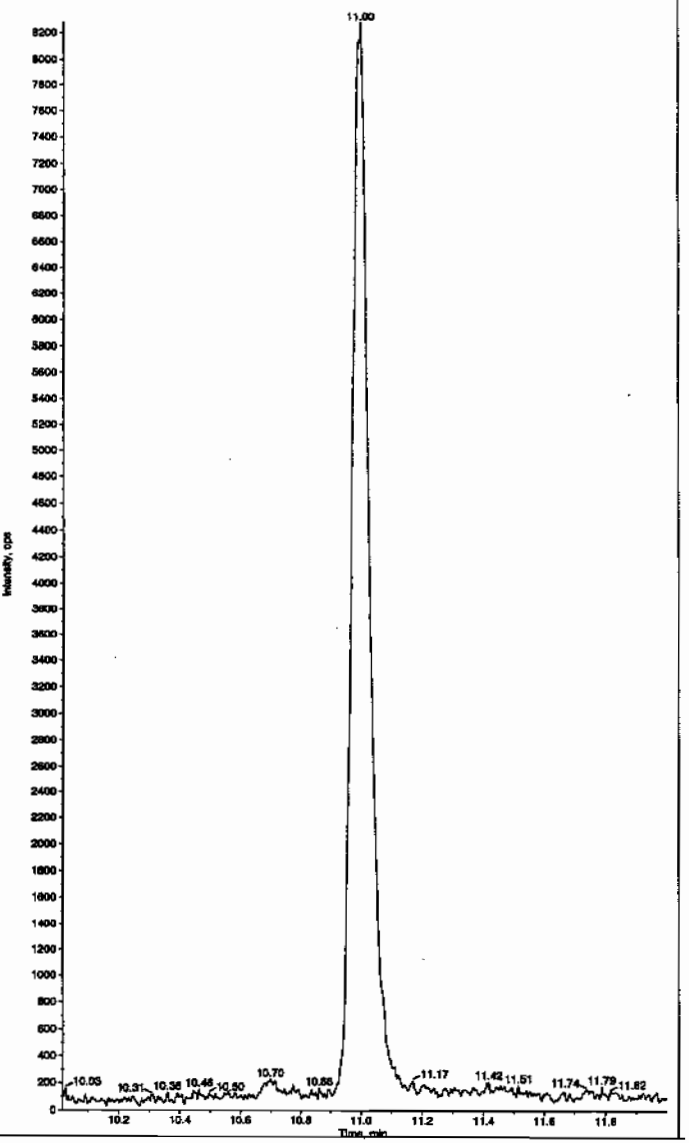
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02130002.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 10:28:33 AM

Modified: No



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

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

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

4A
Explosives Continuing Calibration Blank

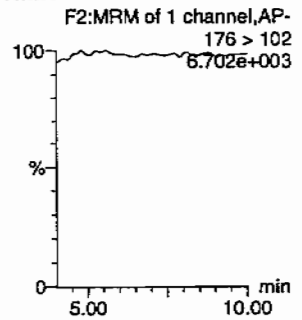
Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK02
Analysis Date: 08-FEB-10 18:40
GEL Data File: EXP0208009a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	519.67
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	546.786
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

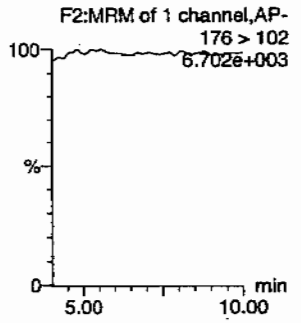
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208009a
Date: 08-Feb-2010
Time: 18:40:36
ID: XIBLK02
Vial: 1:1,A

MMT 2/9/10

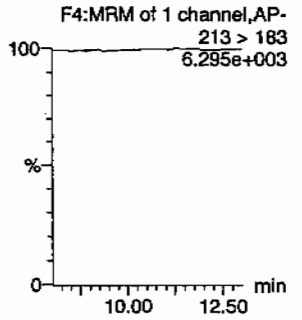
HMX



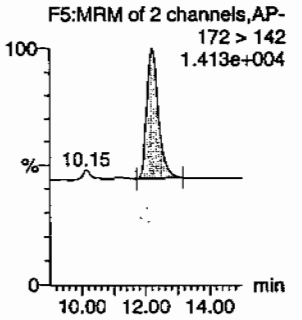
RDX



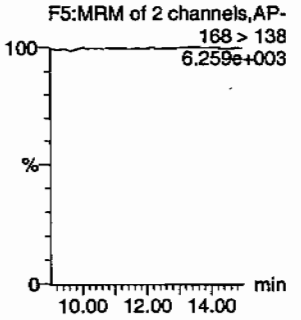
135-Trinitrobenzene



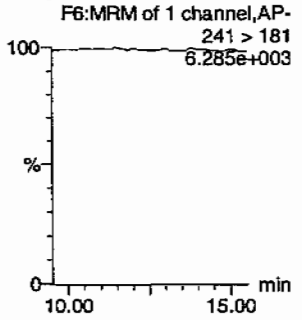
13-Dinitrobenzene-d4



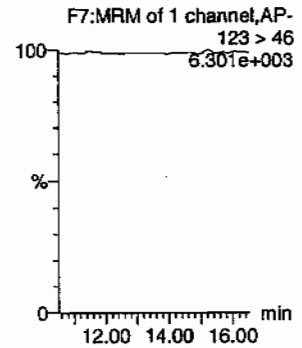
13-Dinitrobenzene



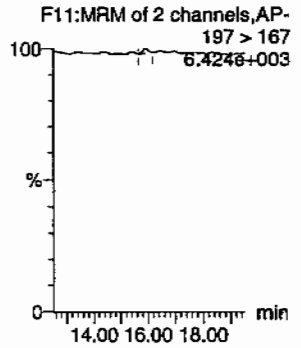
Tetryl



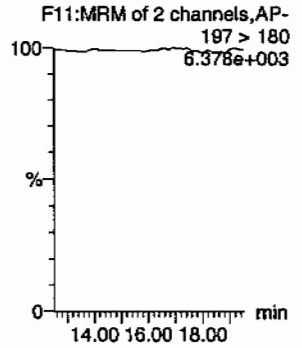
Nitrobenzene



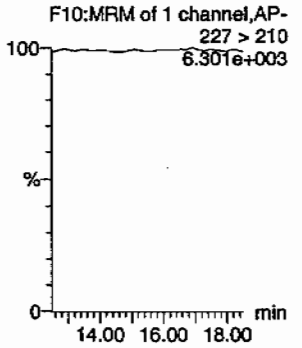
4-Amino-26-dinitrotoluene



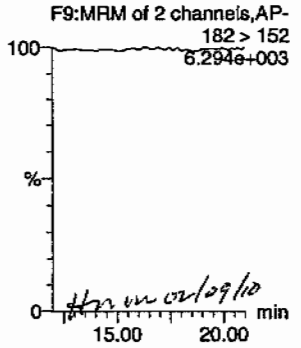
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

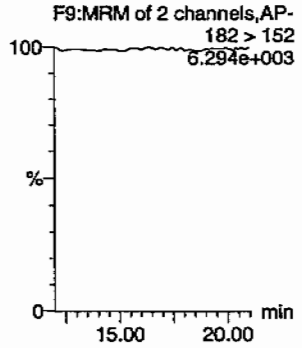


34-dinitrotoluene



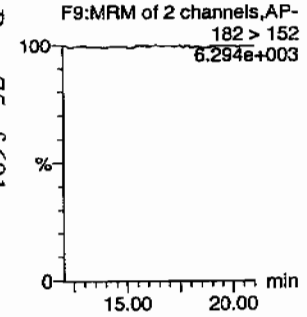
Hmm 02/09/10

26-dinitrotoluene

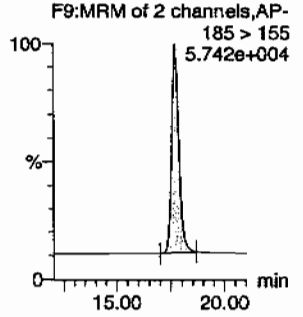


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

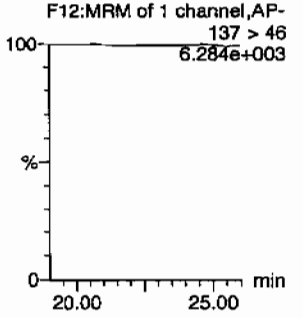
24-dinitrotoluene



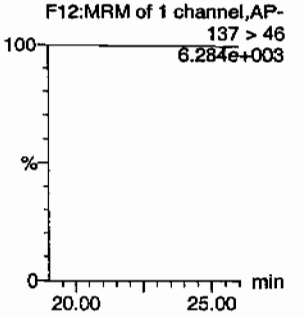
26-dinitrotoluene-d3



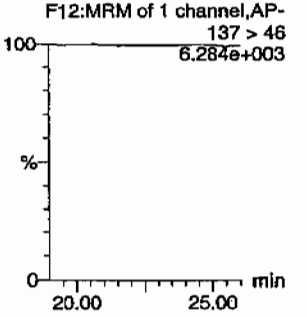
2-Nitrotoluene



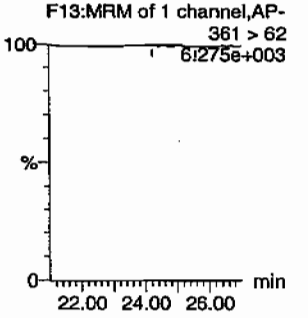
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK02	HMX	176 > 102			3341.034									
XIBLK02	RDX	176 > 102			3341.034									
XIBLK02	135-Trinitrobenzene	213 > 183			3341.034									
XIBLK02	13-Dinitrobenzene-d4	172 > 142	12.20	3341.034		3341.034	3341.034	bb			519.6698	103.9	3.9	344.2
XIBLK02	13-Dinitrobenzene	168 > 138			3341.034									
XIBLK02	Tetryl	241 > 181			3341.034									
XIBLK02	Nitrobenzene	123 > 46			3341.034									
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167			20186.990			MM-	09-Feb-10	10:07:01				
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180			20186.990									
XIBLK02	246-Trinitrotoluene	227 > 210			20186.990									
XIBLK02	34-dinitrotoluene	182 > 152			20186.990									
XIBLK02	26-dinitrotoluene	182 > 152			20186.990									
XIBLK02	24-dinitrotoluene	182 > 152			20186.990									
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.71	20186.990		20186.990	20186.990	bb			546.7860	109.4	9.4	1811.7
XIBLK02	2-Nitrotoluene	137 > 46			20186.990									
XIBLK02	4-Nitrotoluene	137 > 46			20186.990									
XIBLK02	3-Nitrotoluene	137 > 46			20186.990									
XIBLK02	PETN	361 > 62			20186.990			MM-	09-Feb-10	10:12:32				

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

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 08-FEB-10 19:39

GEL Data File: EXP0208011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

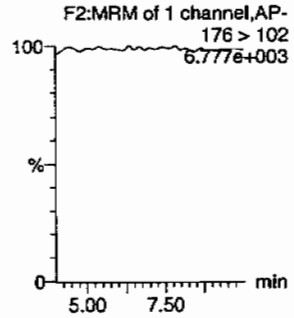
Compound	True	Found (ug/L)
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	583.46
2-Amino-4,6--dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	534.714
2,4,6-Trinitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

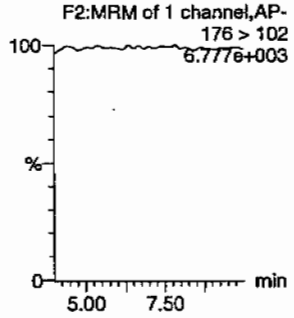
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208011a
Date: 08-Feb-2010
Time: 19:39:33
ID: XIBLK03
Vial: 1:1,A

MHT 2/9/10

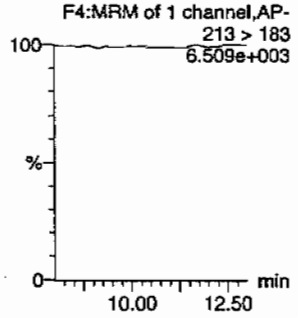
HMX



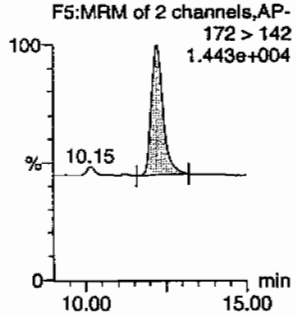
RDX



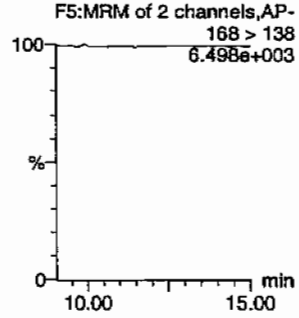
135-Trinitrobenzene



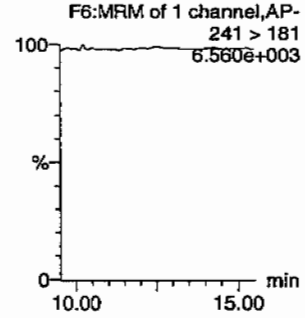
13-Dinitrobenzene-d4



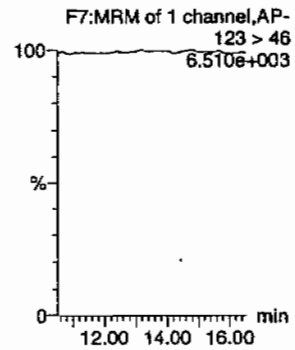
13-Dinitrobenzene



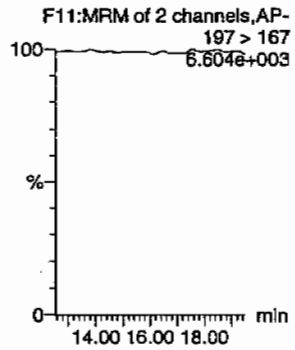
Tetryl



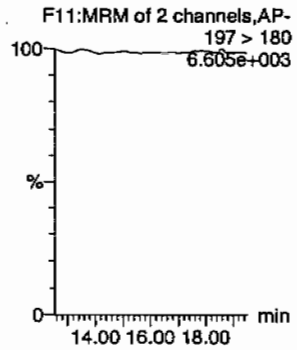
Nitrobenzene



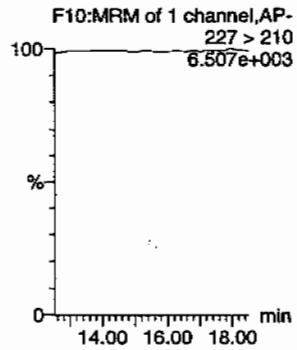
4-Amino-26-dinitrotoluene



2-Amino-46-dinitrotoluene



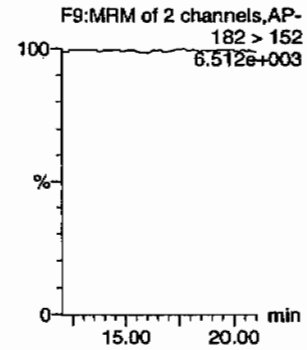
246-Trinitrotoluene



34-dinitrotoluene

Thm 02/09/10

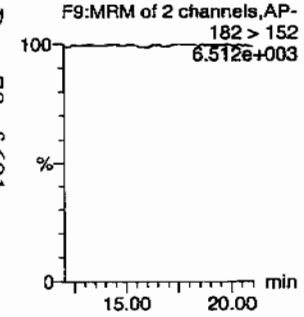
26-dinitrotoluene



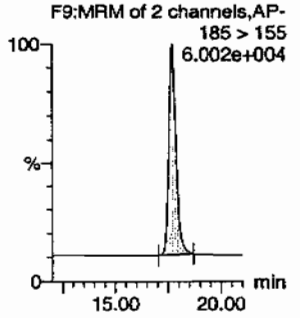
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

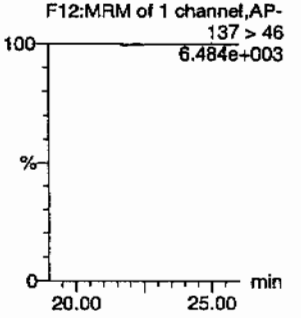
24-dinitrotoluene



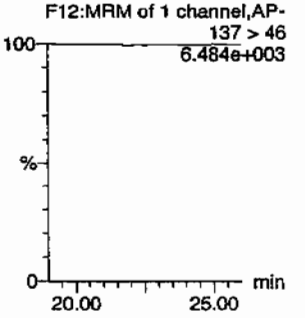
26-dinitrotoluene-d3



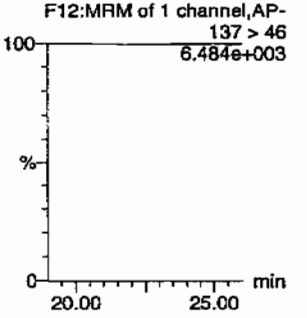
2-Nitrotoluene



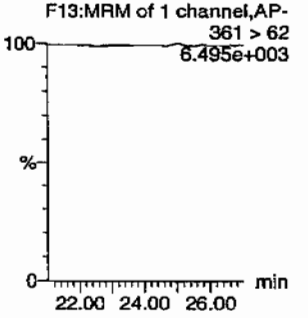
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK03	HMX	176 > 102			3437.753									
XIBLK03	RDX	176 > 102			3437.753									
XIBLK03	135-Trinitrobenzene	213 > 183			3437.753									
XIBLK03	13-Dinitrobenzene-d4	172 > 142	12.20	3437.753		3437.753	3437.753	bb			534.7137	106.9	6.9	235.9
XIBLK03	13-Dinitrobenzene	168 > 138			3437.753									
XIBLK03	Tetryl	241 > 181			3437.753									
XIBLK03	Nitrobenzene	123 > 46			3437.753									
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167			21540.977									
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180			21540.977									
XIBLK03	246-Trinitrotoluene	227 > 210			21540.977									
XIBLK03	34-dinitrotoluene	182 > 152			21540.977									
XIBLK03	26-dinitrotoluene	182 > 152			21540.977									
XIBLK03	24-dinitrotoluene	182 > 152			21540.977									
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.72	21540.977		21540.977	21540.977	bb			583.4602	116.7	16.7	396.6
XIBLK03	2-Nitrotoluene	137 > 46			21540.977									
XIBLK03	4-Nitrotoluene	137 > 46			21540.977									
XIBLK03	3-Nitrotoluene	137 > 46			21540.977									
XIBLK03	PETN	361 > 62			21540.977									

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

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 09-FEB-10 02:02

GEL Data File: EXP0208024a

Instrument ID: LCMSMS

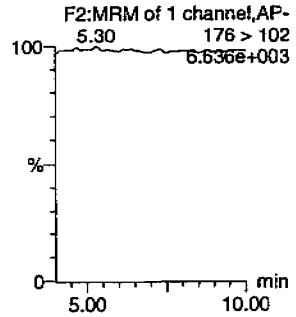
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	594.411
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	592.137
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

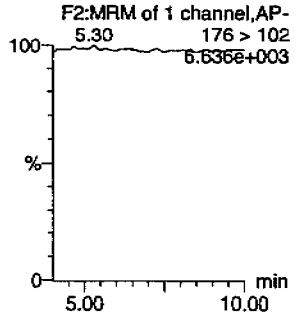
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208024a
Date: 09-Feb-2010
Time: 02:02:53
ID: XIBLK04
Vial: 1:1,A

MMT 2/9/10

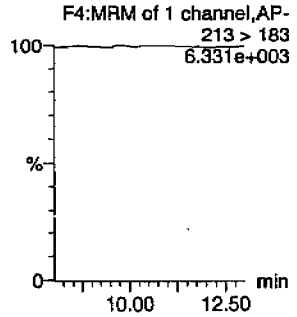
HMX
F2:MRM of 1 channel,AP- 176 > 102
5.30 6.636e+003



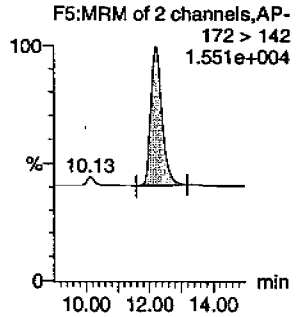
RDX
F2:MRM of 1 channel,AP- 176 > 102
5.30 6.636e+003



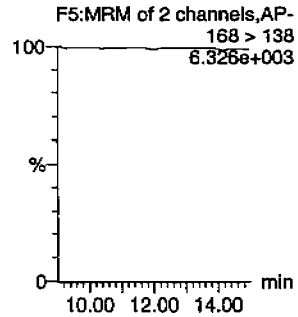
135-Trinitrobenzene
F4:MRM of 1 channel,AP- 213 > 183
6.331e+003



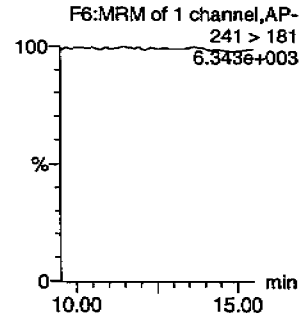
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP- 172 > 142
1.551e+004



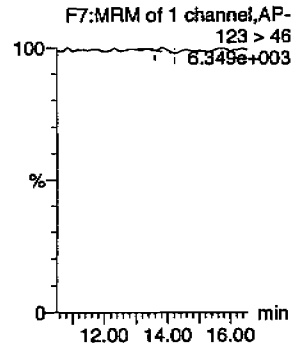
13-Dinitrobenzene
F5:MRM of 2 channels,AP- 168 > 138
6.326e+003



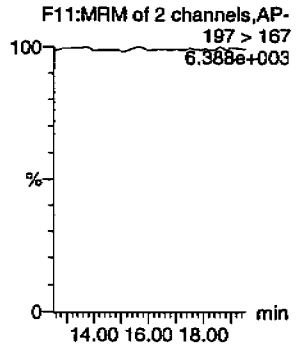
Tetryl
F6:MRM of 1 channel,AP- 241 > 181
6.343e+003



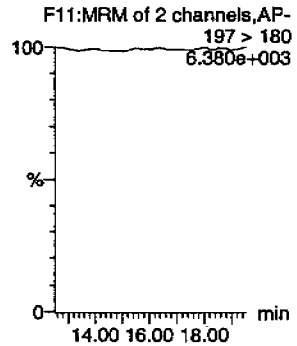
Nitrobenzene
F7:MRM of 1 channel,AP- 123 > 46
6.349e+003



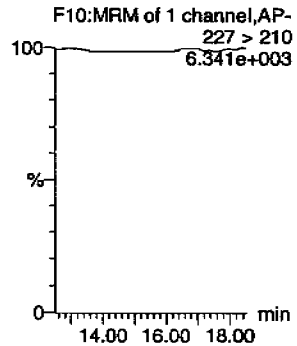
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 167
6.388e+003



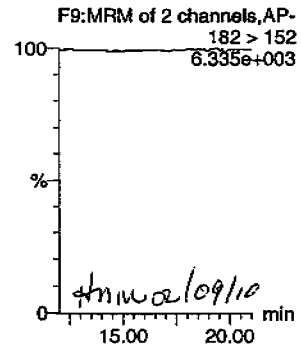
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 180
6.380e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP- 227 > 210
6.341e+003

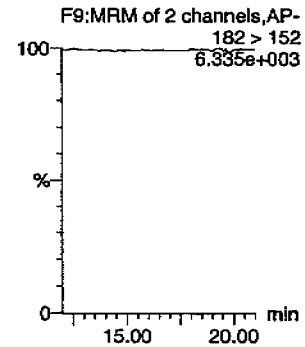


34-dinitrotoluene
F9:MRM of 2 channels,AP- 182 > 152
6.335e+003



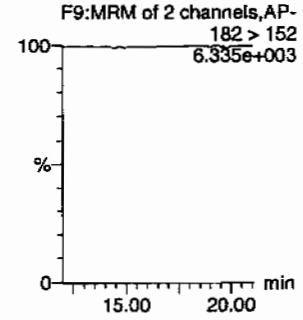
mmw 2/09/10

26-dinitrotoluene
F9:MRM of 2 channels,AP- 182 > 152
6.335e+003

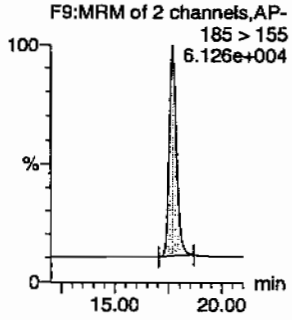


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

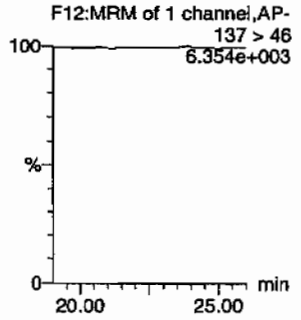
24-dinitrotoluene



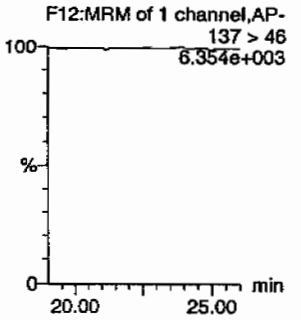
26-dinitrotoluene-d3



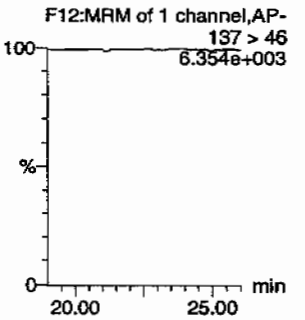
2-Nitrotoluene



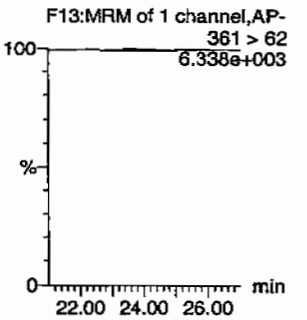
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK04	HMX	176 > 102			3821.559									
XIBLK04	RDX	176 > 102			3821.559									
XIBLK04	135-Trinitrobenzene	213 > 183			3821.559									
XIBLK04	13-Dinitrobenzene-d4	172 > 142	12.20	3821.559		3821.559	3821.559	bb			594.4115	118.9	18.9	582.0
XIBLK04	13-Dinitrobenzene	168 > 138			3821.559									
XIBLK04	Tetryl	241 > 181			3821.559									
XIBLK04	Nitrobenzene	123 > 46			3821.559			MM-	09-Feb-10	10:05:00				
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167			21861.324									
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180			21861.324									
XIBLK04	246-Trinitrotoluene	227 > 210			21861.324									
XIBLK04	34-dinitrotoluene	182 > 152			21861.324									
XIBLK04	26-dinitrotoluene	182 > 152			21861.324									
XIBLK04	24-dinitrotoluene	182 > 152			21861.324									
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.71	21861.324		21861.324	21861.324	bb			592.1371	118.4	18.4	2394.8
XIBLK04	2-Nitrotoluene	137 > 46			21861.324									
XIBLK04	4-Nitrotoluene	137 > 46			21861.324									
XIBLK04	3-Nitrotoluene	137 > 46			21861.324									
XIBLK04	PETN	361 > 62			21861.324									

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

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 09-FEB-10 08:26

GEL Data File: EXP0208037a

Instrument ID: LCMSMS

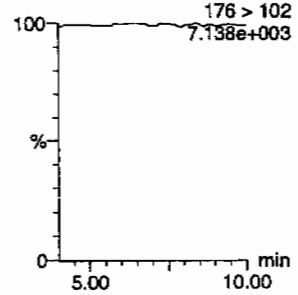
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	568.449
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	592.976

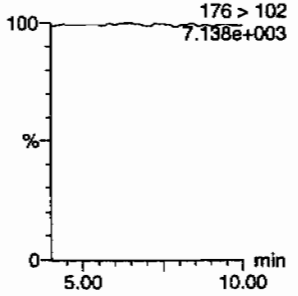
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208037a
Date: 09-Feb-2010
Time: 08:26:48
ID: X\BLK05
Vial: 1:1,A

MM 2/9/10

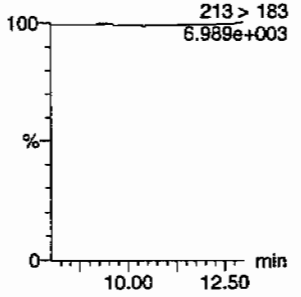
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.138e+003



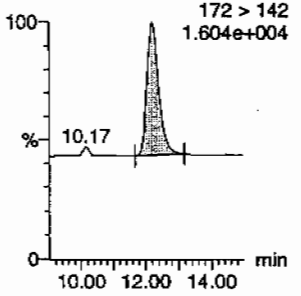
RDX
F2:MRM of 1 channel,AP-
176 > 102
7.138e+003



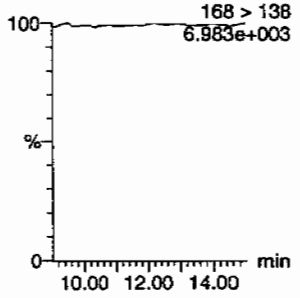
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.989e+003



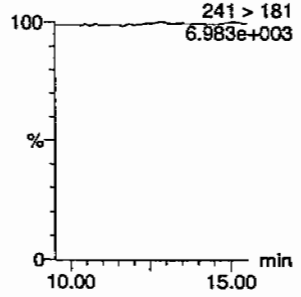
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.604e+004



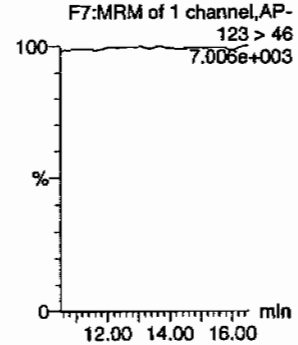
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.983e+003



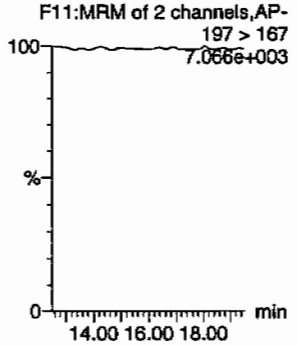
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.983e+003



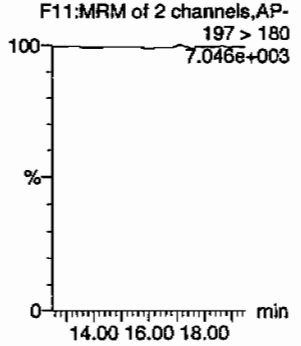
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
7.006e+003



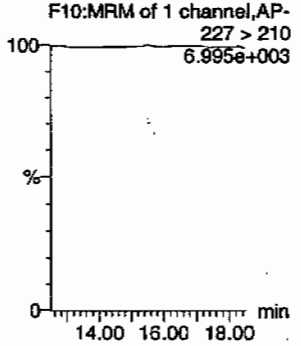
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
7.056e+003



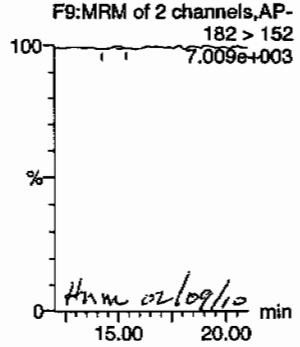
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
7.046e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.995e+003

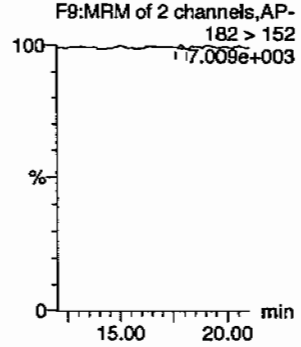


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.009e+003



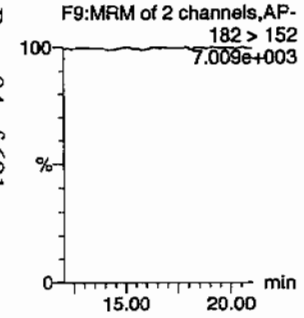
Hmm 02/09/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.009e+003

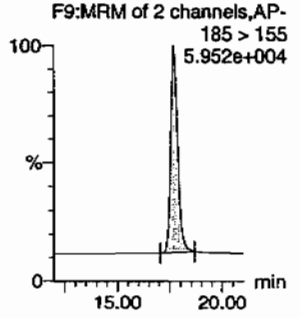


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

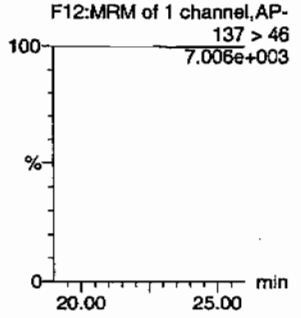
24-dinitrotoluene



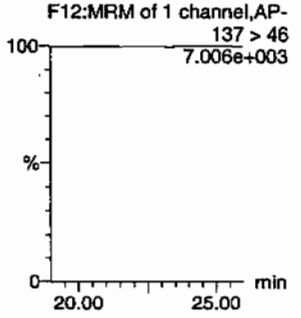
26-dinitrotoluene-d3



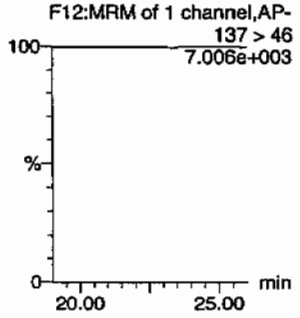
2-Nitrotoluene



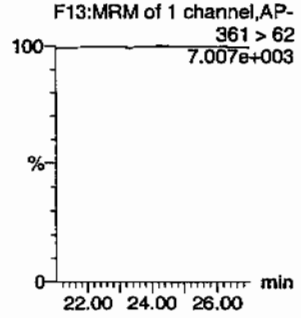
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%DeV	S/N
XIBLK05	HMX	176 > 102			3812.331									
XIBLK05	RDX	176 > 102			3812.331									
XIBLK05	135-Trinitrobenzene	213 > 183			3812.331									
XIBLK05	13-Dinitrobenzene-d4	172 > 142	12.20	3812.331		3812.331	3812.331	bb			592.9761	118.6	18.6	397.2
XIBLK05	13-Dinitrobenzene	168 > 138			3812.331									
XIBLK05	Tetryl	241 > 181			3812.331									
XIBLK05	Nitrobenzene	123 > 46			3812.331									
XIBLK05	4-Amino-26-dinitrotoluene	197 > 167			20986.781									
XIBLK05	2-Amino-46-dinitrotoluene	197 > 180			20986.781									
XIBLK05	246-Trinitrotoluene	227 > 210			20986.781									
XIBLK05	34-dinitrotoluene	182 > 152			20986.781			MM-	09-Feb-10	10:09:37				
XIBLK05	26-dinitrotoluene	182 > 152			20986.781			MM-	09-Feb-10	10:15:23				
XIBLK05	24-dinitrotoluene	182 > 152			20986.781									
XIBLK05	26-dinitrotoluene-d3	185 > 155	17.71	20986.781		20986.781	20986.781	bb			568.4492	113.7	13.7	1868.8
XIBLK05	2-Nitrotoluene	137 > 46			20986.781									
XIBLK05	4-Nitrotoluene	137 > 46			20986.781									
XIBLK05	3-Nitrotoluene	137 > 46			20986.781									
XIBLK05	PETN	361 > 62			20986.781									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK06
Analysis Date: 09-FEB-10 14:50
GEL Data File: EXP0208050a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

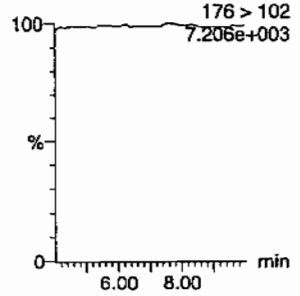
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	619.031
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	615.609
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

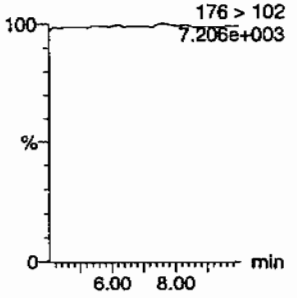
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208050a
Date: 09-Feb-2010
Time: 14:50:17
ID: XIBLK06
Vial: 1:1,A

2/10/10

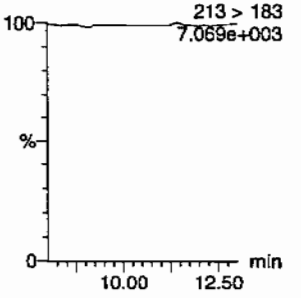
HMX



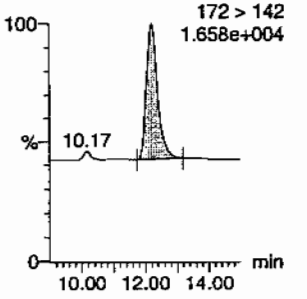
RDX



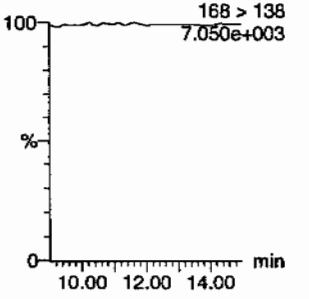
135-Trinitrobenzene



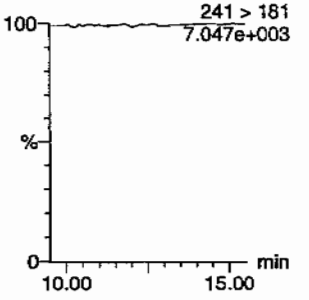
13-Dinitrobenzene-d4



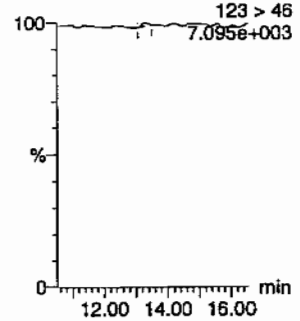
13-Dinitrobenzene



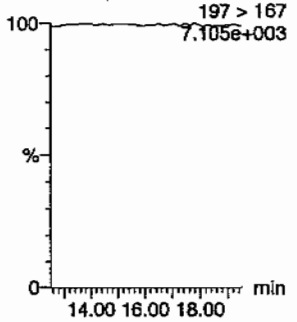
Tetryl



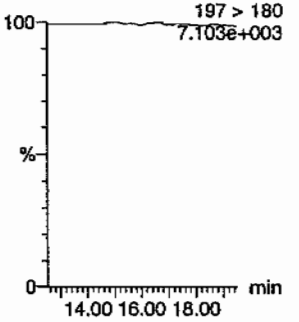
Nitrobenzene



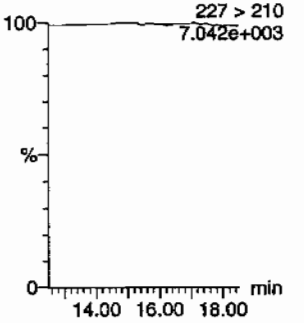
4-Amino-26-dinitrotoluene



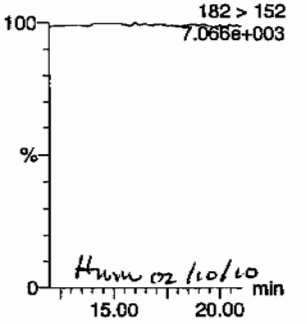
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

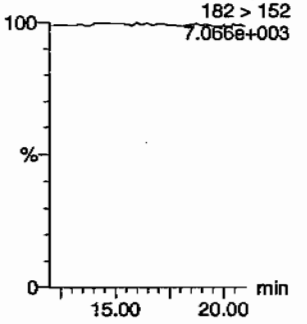


34-dinitrotoluene



Hmm 02/10/10

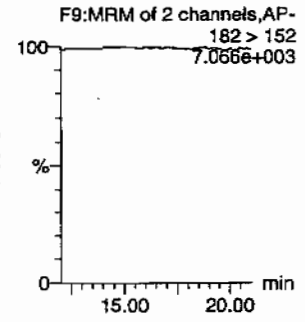
26-dinitrotoluene



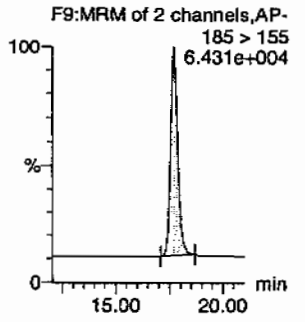
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

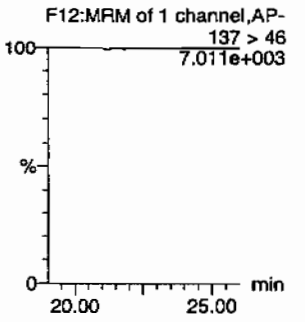
24-dinitrotoluene



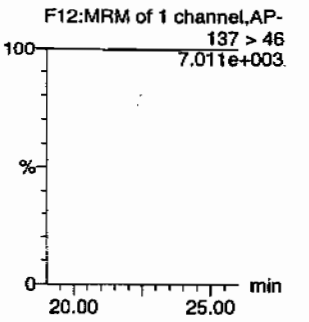
26-dinitrotoluene-d3



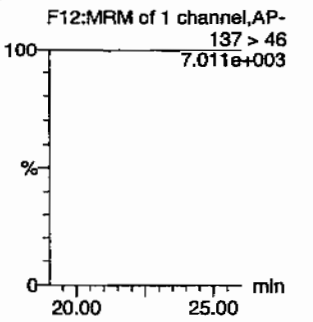
2-Nitrotoluene



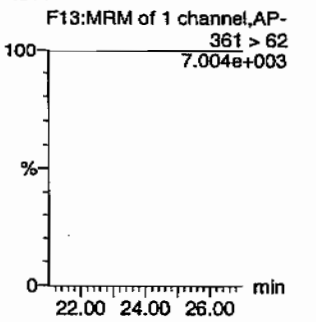
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK06	HMX	176 > 102			3979.842									
XIBLK06	RDX	176 > 102			3979.842									
XIBLK06	135-Trinitrobenzene	213 > 183			3979.842									
XIBLK06	13-Dinitrobenzene-d4	172 > 142	12.20	3979.842		3979.842	3979.842	bb			619.0311	123.8	23.8	262.8
XIBLK06	13-Dinitrobenzene	168 > 138			3979.842									
XIBLK06	Tetryl	241 > 181			3979.842									
XIBLK06	Nitrobenzene	123 > 46			3979.842			MM-	10-Feb-10	09:17:09				
XIBLK06	4-Amino-26-dinitrotoluene	197 > 167			22727.891									
XIBLK06	2-Amino-46-dinitrotoluene	197 > 180			22727.891									
XIBLK06	246-Trinitrotoluene	227 > 210			22727.891									
XIBLK06	34-dinitrotoluene	182 > 152			22727.891									
XIBLK06	26-dinitrotoluene	182 > 152			22727.891									
XIBLK06	24-dinitrotoluene	182 > 152			22727.891									
XIBLK06	26-dinitrotoluene-d3	185 > 155	17.71	22727.891		22727.891	22727.891	bb			615.6090	123.1	23.1	1189.9
XIBLK06	2-Nitrotoluene	137 > 46			22727.891									
XIBLK06	4-Nitrotoluene	137 > 46			22727.891									
XIBLK06	3-Nitrotoluene	137 > 46			22727.891									
XIBLK06	PETN	361 > 62			22727.891									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK07
Analysis Date: 09-FEB-10 21:13
GEL Data File: EXP0208063a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

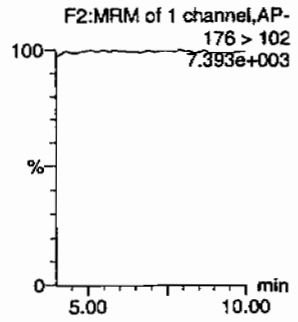
Compound	True	Found (ug/L)
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4--Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	602.957
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	577.242
2-Amino-4,6-dinitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

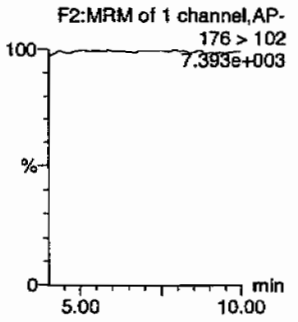
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208063a
Date: 09-Feb-2010
Time: 21:13:58
ID: XIBLK07
Vial: 1:1,A

MM 2/10/10

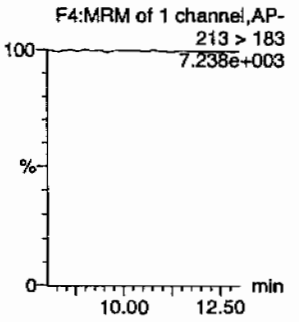
HMX



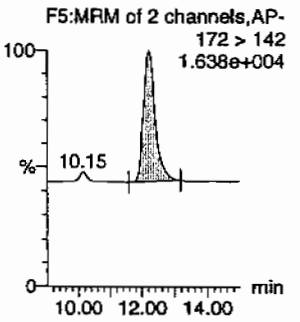
RDX



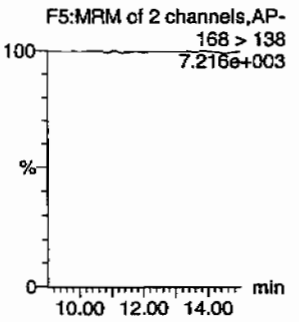
135-Trinitrobenzene



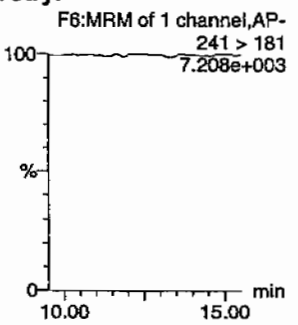
13-Dinitrobenzene-d4



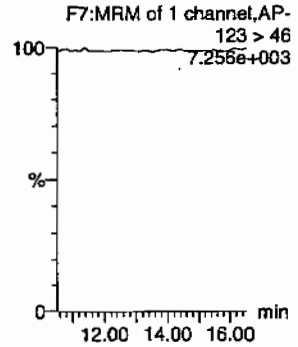
13-Dinitrobenzene



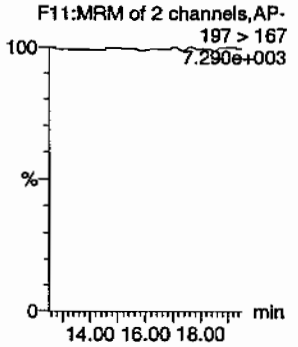
Tetryl



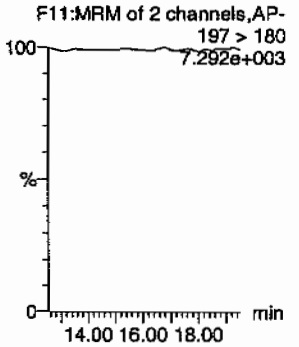
Nitrobenzene



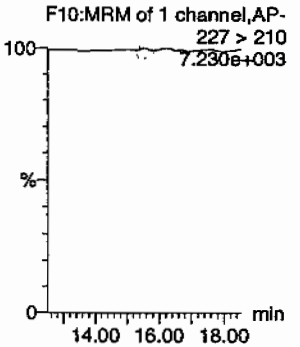
4-Amino-26-dinitrotoluene



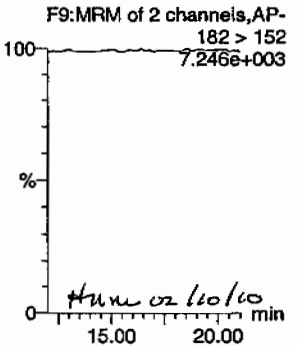
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

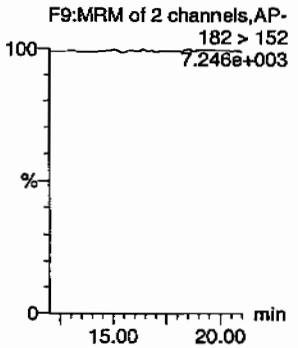


34-dinitrotoluene



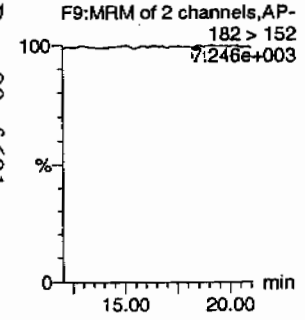
Hmm 02/10/10

26-dinitrotoluene

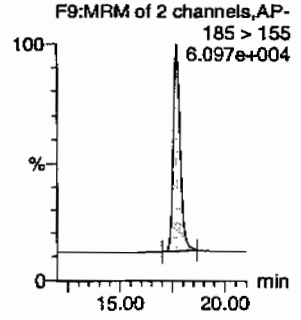


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

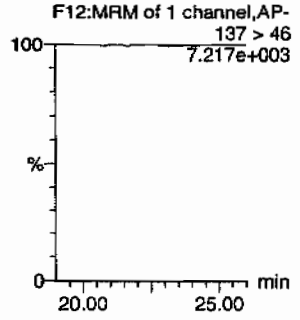
24-dinitrotoluene



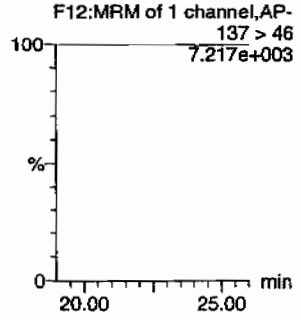
26-dinitrotoluene-d3



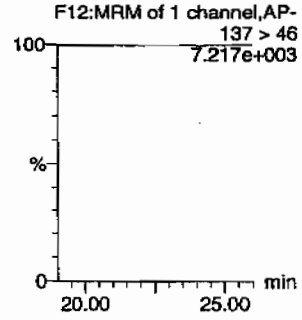
2-Nitrotoluene



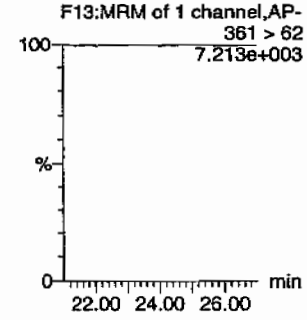
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK07	HMX	176 > 102			3876.500									
XIBLK07	RDX	176 > 102			3876.500									
XIBLK07	135-Trinitrobenzene	213 > 183			3876.500									
XIBLK07	13-Dinitrobenzene-d4	172 > 142	12.20	3876.500		3876.500	3876.500	bb			602.9571	120.6	20.6	383.4
XIBLK07	13-Dinitrobenzene	168 > 138			3876.500									
XIBLK07	Tetryl	241 > 181			3876.500									
XIBLK07	Nitrobenzene	123 > 46			3876.500									
XIBLK07	4-Amino-26-dinitrotoluene	197 > 167			21311.416									
XIBLK07	2-Amino-46-dinitrotoluene	197 > 180			21311.416									
XIBLK07	246-Trinitrotoluene	227 > 210			21311.416									
XIBLK07	34-dinitrotoluene	182 > 152			21311.416									
XIBLK07	26-dinitrotoluene	182 > 152			21311.416									
XIBLK07	24-dinitrotoluene	182 > 152			21311.416			MM-	10-Feb-10	09:08:37				
XIBLK07	26-dinitrotoluene-d3	185 > 155	17.71	21311.416		21311.416	21311.416	bb			577.2423	115.4	15.4	1930.8
XIBLK07	2-Nitrotoluene	137 > 46			21311.416									
XIBLK07	4-Nitrotoluene	137 > 46			21311.416									
XIBLK07	3-Nitrotoluene	137 > 46			21311.416									
XIBLK07	PETN	361 > 62			21311.416									

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

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

4A
Explosives Continuing Calibration Blank

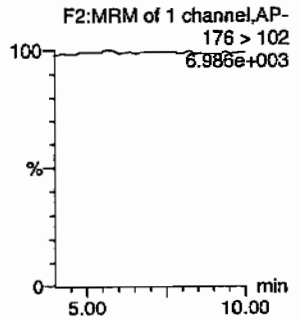
Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK08
Analysis Date: 10-FEB-10 03:37
GEL Data File: EXP0208076a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	571.729
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	557.496
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

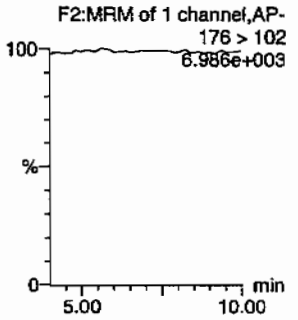
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208076a
Date: 10-Feb-2010
Time: 03:37:30
ID: XIBLK08
Vial: 1:1,A

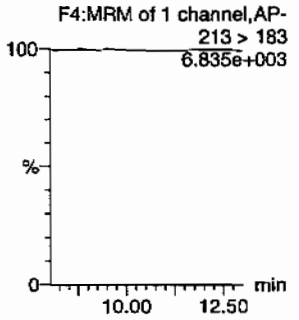
HMX



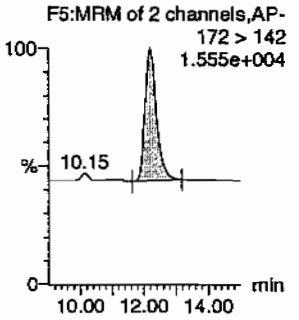
RDX



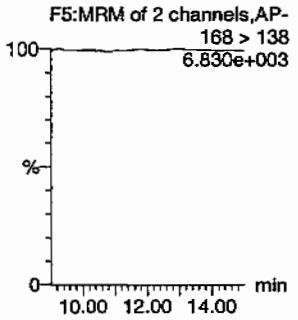
135-Trinitrobenzene



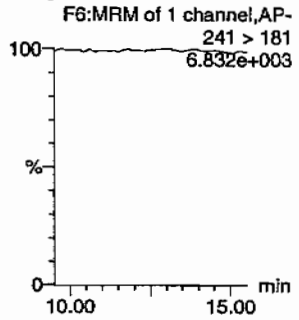
13-Dinitrobenzene-d4



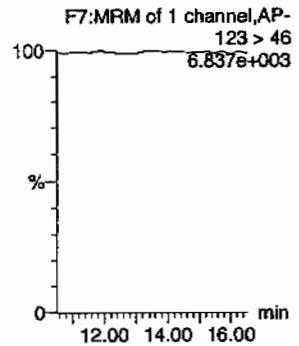
13-Dinitrobenzene



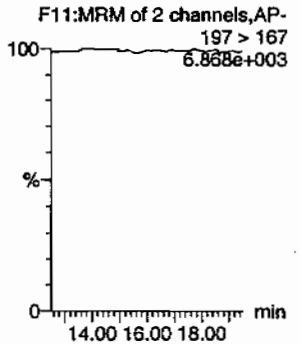
Tetryl



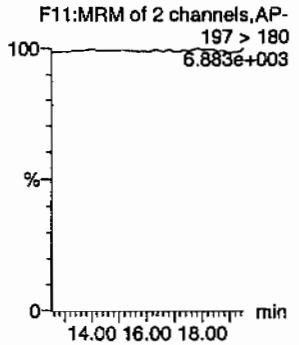
Nitrobenzene



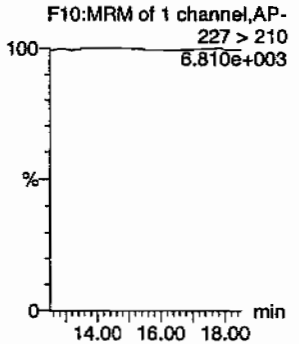
4-Amino-26-dinitrotoluene



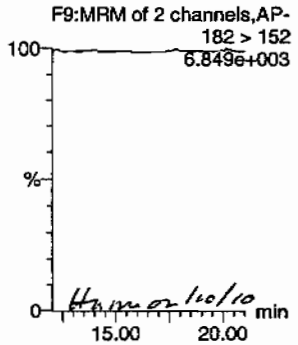
2-Amino-46-dinitrotoluene



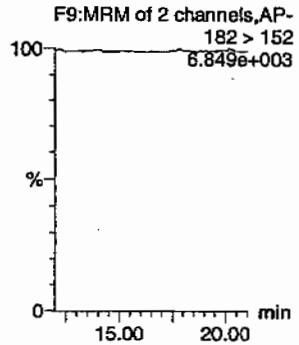
246-Trinitrotoluene



34-dinitrotoluene



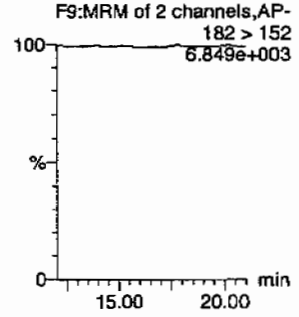
26-dinitrotoluene



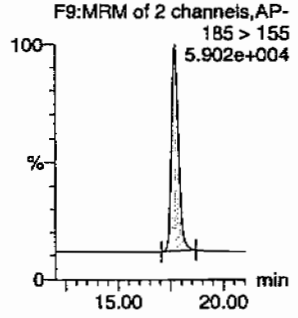
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

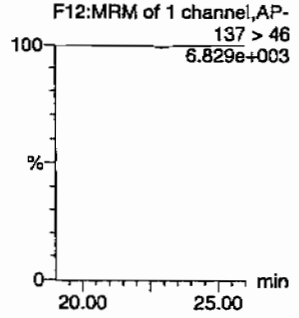
24-dinitrotoluene



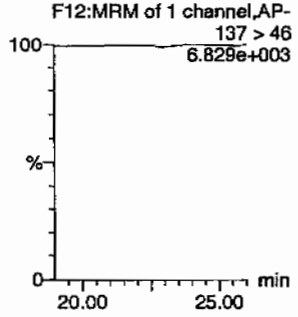
26-dinitrotoluene-d3



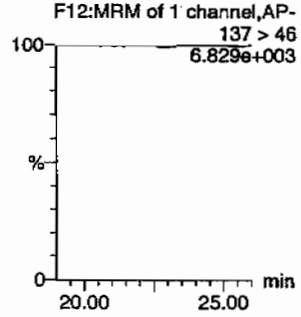
2-Nitrotoluene



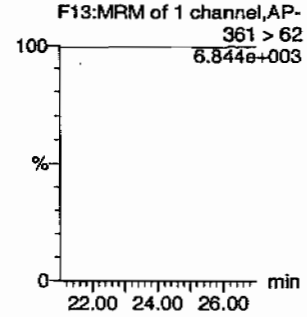
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK08	HMX	176 > 102			3675.727									
XIBLK08	RDX	176 > 102			3675.727									
XIBLK08	135-Trinitrobenzene	213 > 183			3675.727									
XIBLK08	13-Dinitrobenzene-d4	172 > 142	12.20	3675.727		3675.727	3675.727	bb			571.7285	114.3	14.3	285.2
XIBLK08	13-Dinitrobenzene	168 > 138			3675.727									
XIBLK08	Tetryl	241 > 181			3675.727									
XIBLK08	Nitrobenzene	123 > 46			3675.727									
XIBLK08	4-Amino-26-dinitrotoluene	197 > 167			20582.389									
XIBLK08	2-Amino-46-dinitrotoluene	197 > 180			20582.389									
XIBLK08	246-Trinitrotoluene	227 > 210			20582.389									
XIBLK08	34-dinitrotoluene	182 > 152			20582.389									
XIBLK08	26-dinitrotoluene	182 > 152			20582.389									
XIBLK08	24-dinitrotoluene	182 > 152			20582.389									
XIBLK08	26-dinitrotoluene-d3	185 > 155	17.71	20582.389		20582.389	20582.389	bb			557.4958	111.5	11.5	2116.4
XIBLK08	2-Nitrotoluene	137 > 46			20582.389									
XIBLK08	4-Nitrotoluene	137 > 46			20582.389									
XIBLK08	3-Nitrotoluene	137 > 46			20582.389									
XIBLK08	PETN	361 > 62			20582.389									

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

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

4A
Explosives Continuing Calibration Blank

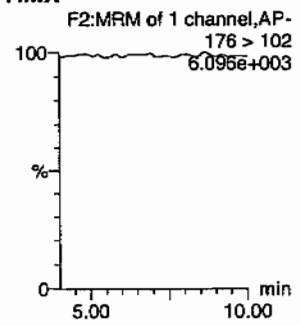
Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK09
Analysis Date: 10-FEB-10 10:01
GEL Data File: EXP0208089a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	589.535
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	534.323
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

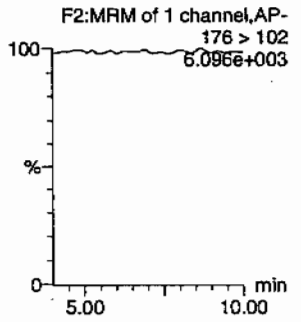
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208089a
Date: 10-Feb-2010
Time: 10:01:12
ID: XIBLK09
Vial: 1:1,A

MM 2/11/10

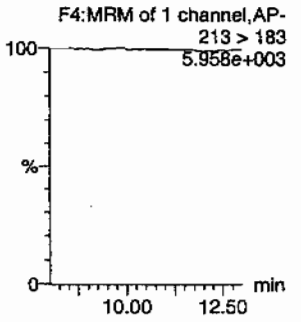
HMX



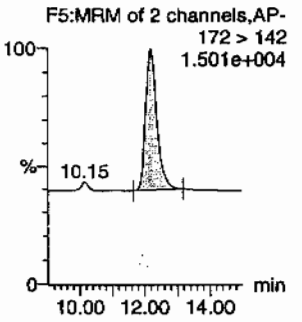
RDX



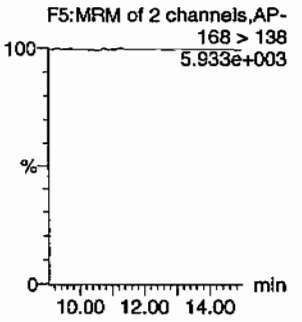
135-Trinitrobenzene



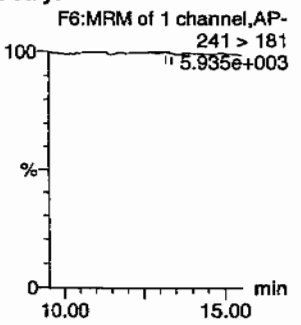
13-Dinitrobenzene-d4



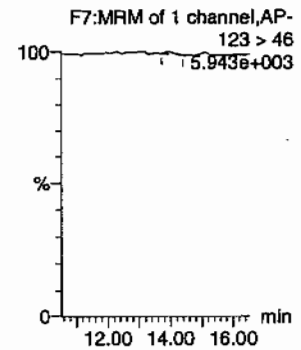
13-Dinitrobenzene



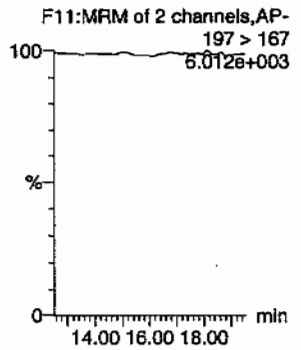
Tetryl



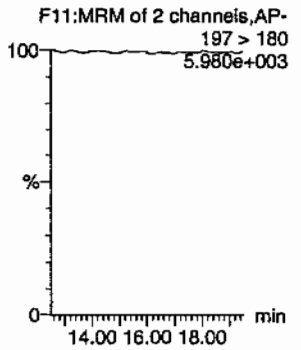
Nitrobenzene



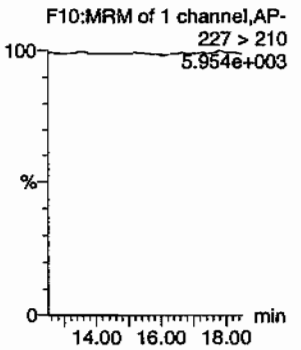
4-Amino-26-dinitrotoluene



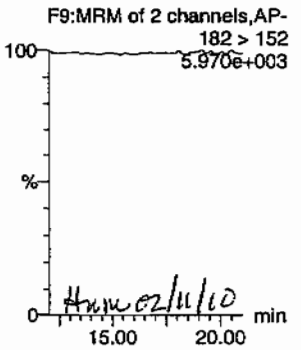
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

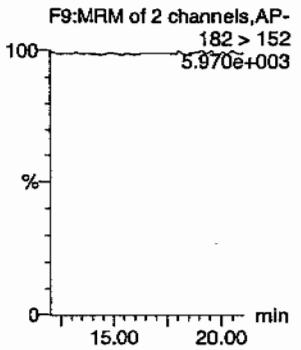


34-dinitrotoluene



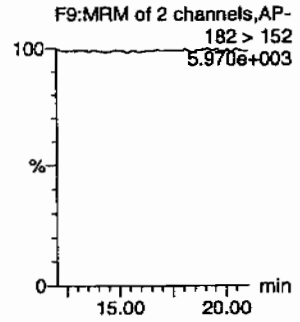
Hmw 02/11/10

26-dinitrotoluene

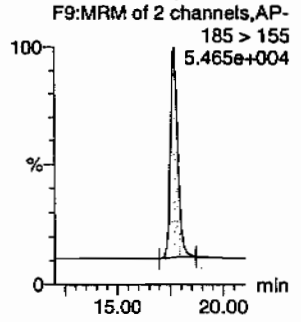


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

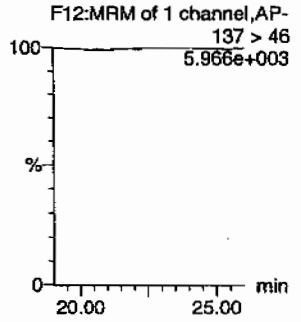
24-dinitrotoluene



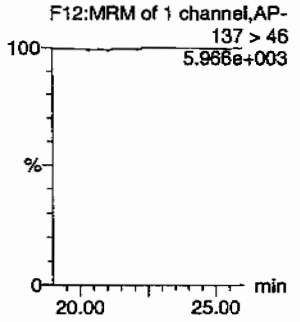
26-dinitrotoluene-d3



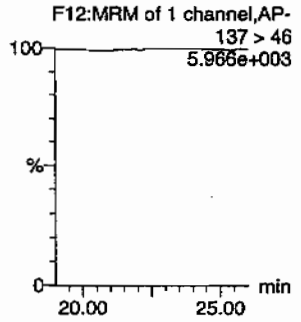
2-Nitrotoluene



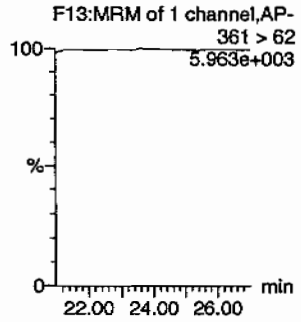
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK09	HMX	176 > 102			3790.207									
XIBLK09	RDX	176 > 102			3790.207									
XIBLK09	135-Trinitrobenzene	213 > 183			3790.207									
XIBLK09	13-Dinitrobenzene-d4	172 > 142	12.21	3790.207		3790.207	3790.207	bb			589.5349	117.9	17.9	289.8
XIBLK09	13-Dinitrobenzene	168 > 138			3790.207									
XIBLK09	Tetryl	241 > 181			3790.207			MM-	11-Feb-10	09:25:42				
XIBLK09	Nitrobenzene	123 > 46			3790.207			MM-	11-Feb-10	09:25:57				
XIBLK09	4-Amino-26-dinitrotoluene	197 > 167			19726.857									
XIBLK09	2-Amino-46-dinitrotoluene	197 > 180			19726.857									
XIBLK09	246-Trinitrotoluene	227 > 210			19726.857									
XIBLK09	34-dinitrotoluene	182 > 152			19726.857									
XIBLK09	26-dinitrotoluene	182 > 152			19726.857									
XIBLK09	24-dinitrotoluene	182 > 152			19726.857									
XIBLK09	26-dinitrotoluene-d3	185 > 155	17.68	19726.857		19726.857	19726.857	bb			534.3228	106.9	6.9	2274.9
XIBLK09	2-Nitrotoluene	137 > 46			19726.857									
XIBLK09	4-Nitrotoluene	137 > 46			19726.857									
XIBLK09	3-Nitrotoluene	137 > 46			19726.857									
XIBLK09	PETN	361 > 62			19726.857									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK10
Analysis Date: 10-FEB-10 11:59
GEL Data File: EXP0208093a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

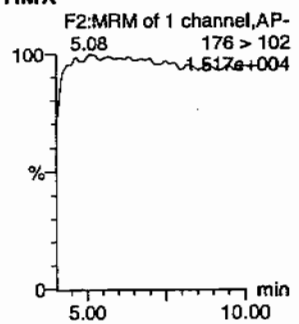
Compound	True	Found (ug/L)
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	590.034
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	518.982

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

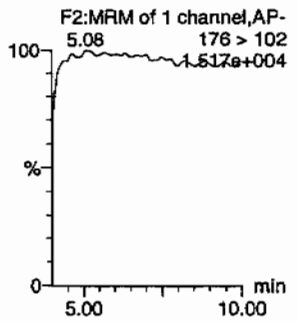
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208093a
Date: 10-Feb-2010
Time: 11:59:19
ID: XIBLK10
Vial: 1:1,F

MMTT 2/11/10

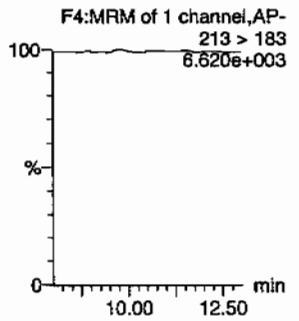
HMX



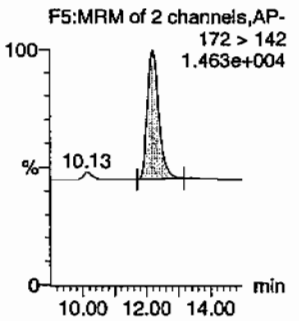
RDX



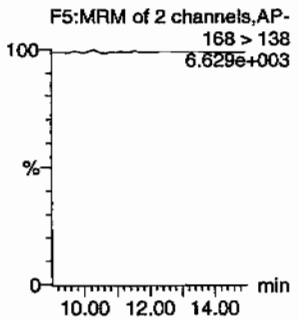
135-Trinitrobenzene



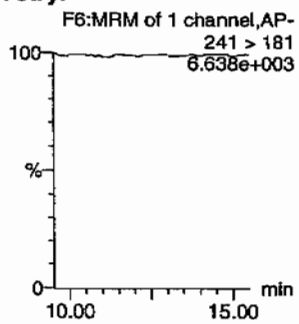
13-Dinitrobenzene-d4



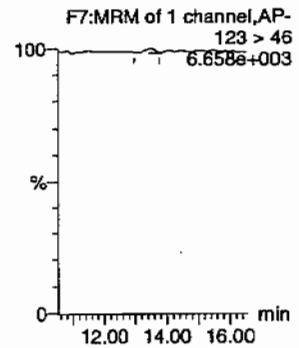
13-Dinitrobenzene



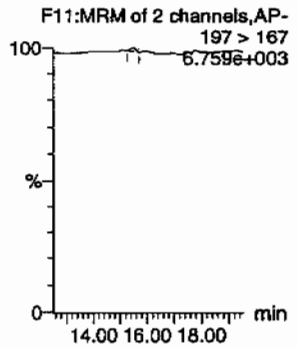
Tetryl



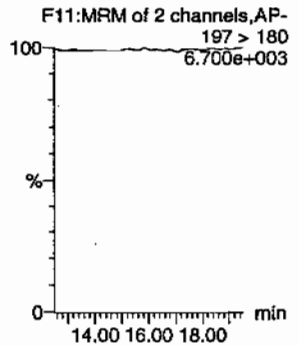
Nitrobenzene



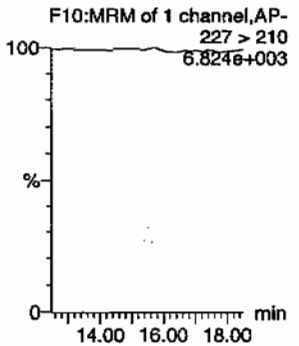
4-Amino-26-dinitrotoluene



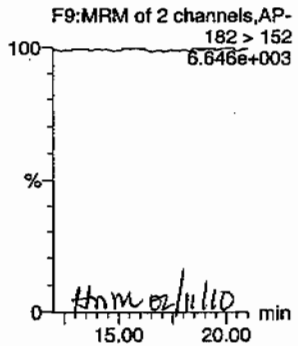
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

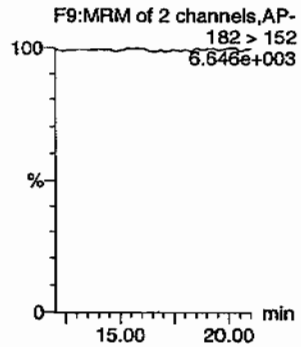


34-dinitrotoluene



hmm 02/11/10

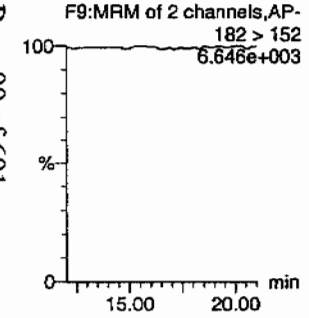
26-dinitrotoluene



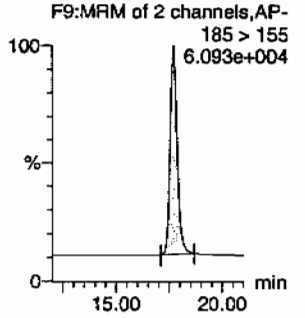
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

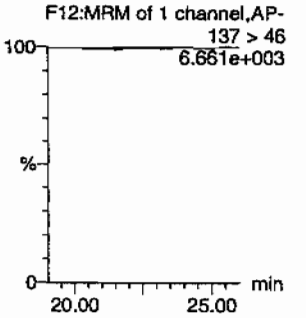
24-dinitrotoluene



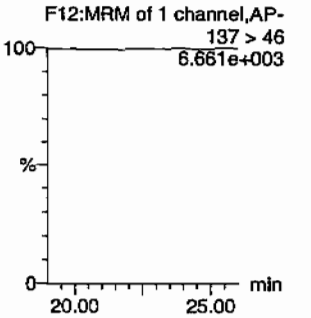
26-dinitrotoluene-d3



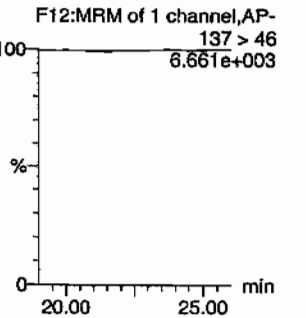
2-Nitrotoluene



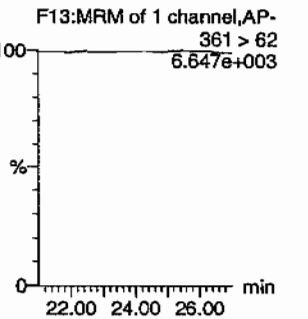
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK10	HMX	176 > 102			3336.610									
XIBLK10	RDX	176 > 102			3336.610									
XIBLK10	135-Trinitrobenzene	213 > 183			3336.610									
XIBLK10	13-Dinitrobenzene-d4	172 > 142	12.21	3336.610		3336.610	3336.610	bb			518.9817	103.8	3.8	444.8
XIBLK10	13-Dinitrobenzene	168 > 138			3336.610									
XIBLK10	Tetryl	241 > 181			3336.610									
XIBLK10	Nitrobenzene	123 > 46			3336.610			MM-	11-Feb-10	09:26:00				
XIBLK10	4-Amino-26-dinitrotoluene	197 > 167			21783.670			MM-	11-Feb-10	09:29:33				
XIBLK10	2-Amino-46-dinitrotoluene	197 > 180			21783.670									
XIBLK10	246-Trinitrotoluene	227 > 210			21783.670									
XIBLK10	34-dinitrotoluene	182 > 152			21783.670									
XIBLK10	26-dinitrotoluene	182 > 152			21783.670									
XIBLK10	24-dinitrotoluene	182 > 152			21783.670									
XIBLK10	26-dinitrotoluene-d3	185 > 155	17.71	21783.670		21783.670	21783.670	bb			590.0337	118.0	18.0	1654.2
XIBLK10	2-Nitrotoluene	137 > 46			21783.670									
XIBLK10	4-Nitrotoluene	137 > 46			21783.670									
XIBLK10	3-Nitrotoluene	137 > 46			21783.670									
XIBLK10	PETN	361 > 62			21783.670									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 10-FEB-10 13:28

GEL Data File: EXP0208096a

Instrument ID: LCMSMS

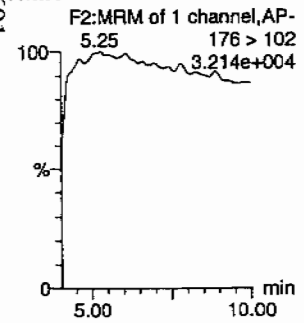
Column: Phenomenex Ultracarb 5u ODS(20)

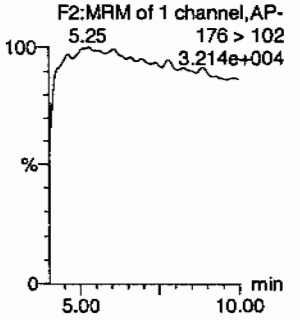
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	515.625
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	487.539
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

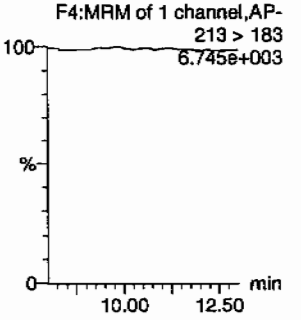
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

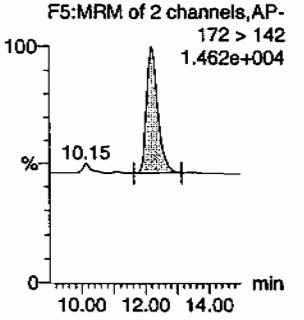
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208096a
Date: 10-Feb-2010
Time: 13:28:03
ID: XIBLK11
Vial: 1:1,F

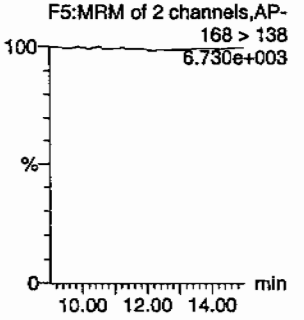
Page 101 of 691

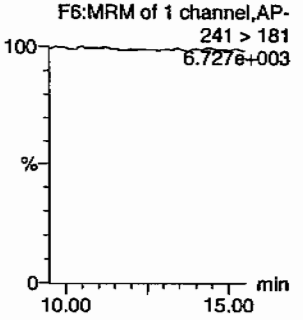
HMX


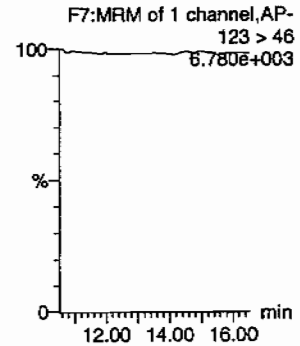
RDX


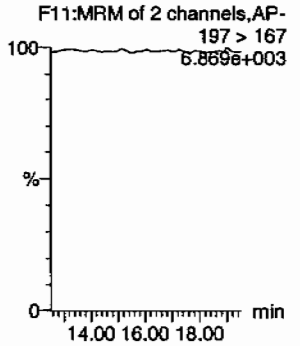
135-Trinitrobenzene


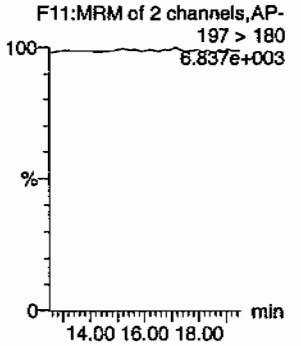
13-Dinitrobenzene-d4


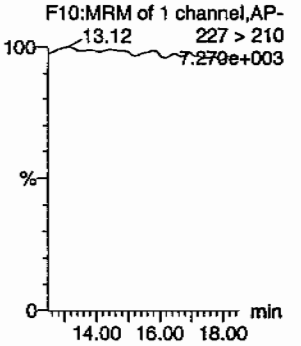
13-Dinitrobenzene


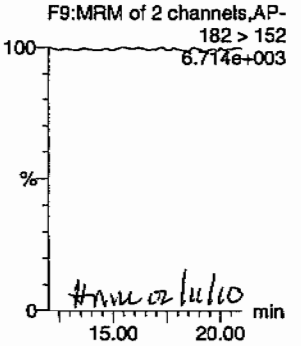
Tetryl


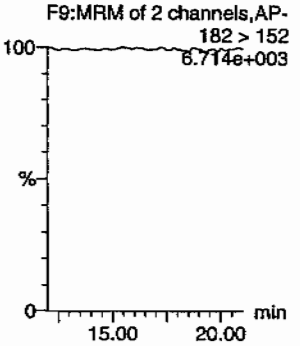
Nitrobenzene


4-Amino-26-dinitrotoluene


2-Amino-46-dinitrotoluene


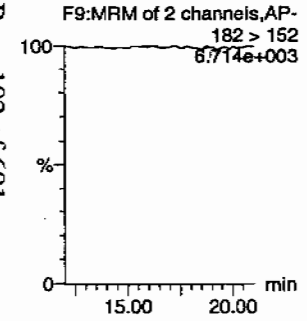
246-Trinitrotoluene


34-dinitrotoluene


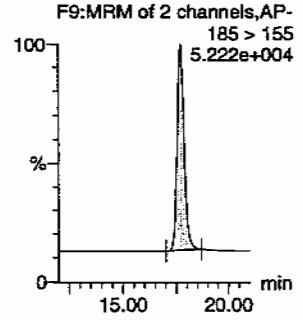
26-dinitrotoluene


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

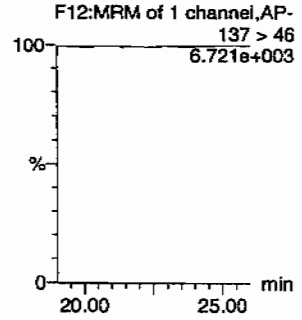
24-dinitrotoluene



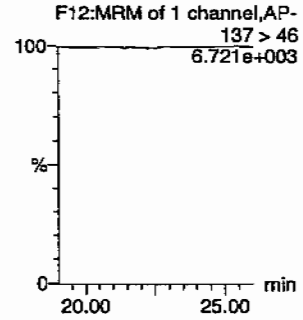
26-dinitrotoluene-d3



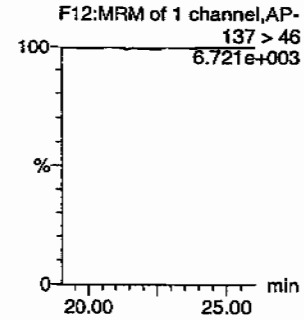
2-Nitrotoluene



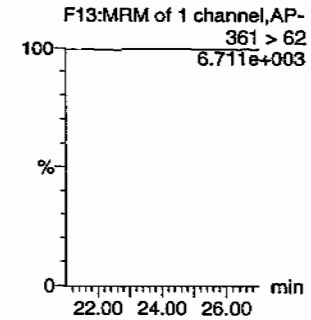
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK11	HMX	176 > 102			3315.031									
XIBLK11	RDX	176 > 102			3315.031									
XIBLK11	135-Trinitrobenzene	213 > 183			3315.031									
XIBLK11	13-Dinitrobenzene-d4	172 > 142	12.21	3315.031		3315.031	3315.031	bb			515.6253	103.1	3.1	246.5
XIBLK11	13-Dinitrobenzene	168 > 138			3315.031									
XIBLK11	Tetryl	241 > 181			3315.031									
XIBLK11	Nitrobenzene	123 > 46			3315.031									
XIBLK11	4-Amino-26-dinitrotoluene	197 > 167			17999.613									
XIBLK11	2-Amino-46-dinitrotoluene	197 > 180			17999.613									
XIBLK11	246-Trinitrotoluene	227 > 210			17999.613									
XIBLK11	34-dinitrotoluene	182 > 152			17999.613									
XIBLK11	26-dinitrotoluene	182 > 152			17999.613									
XIBLK11	24-dinitrotoluene	182 > 152			17999.613			MM-	11-Feb-10	10:03:53				
XIBLK11	26-dinitrotoluene-d3	185 > 155	17.70	17999.613		17999.613	17999.613	bb			487.5386	97.5	-2.5	1653.3
XIBLK11	2-Nitrotoluene	137 > 46			17999.613									
XIBLK11	4-Nitrotoluene	137 > 46			17999.613									
XIBLK11	3-Nitrotoluene	137 > 46			17999.613									
XIBLK11	PETN	361 > 62			17999.613									

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

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 10-FEB-10 15:55

GEL Data File: EXP0208101a

Instrument ID: LCMSMS

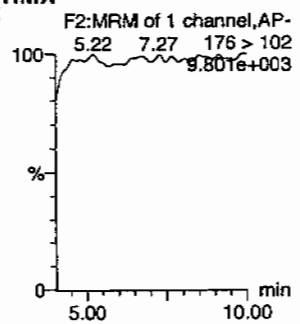
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	493.427
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	444.368
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

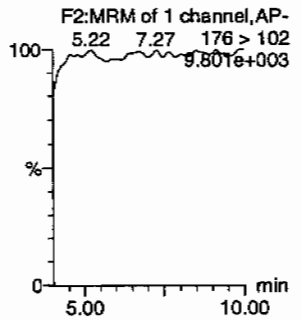
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208101a
Date: 10-Feb-2010
Time: 15:55:49
ID: XIBLK12
Vial: 1:1,A

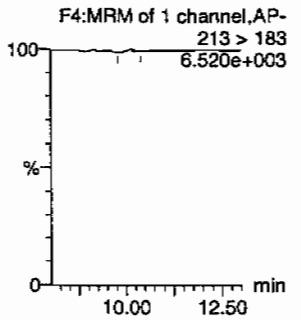
HMX



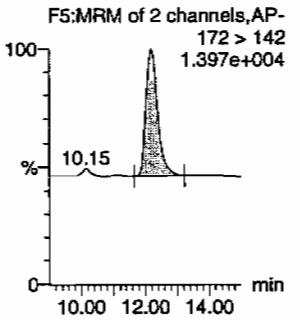
RDX



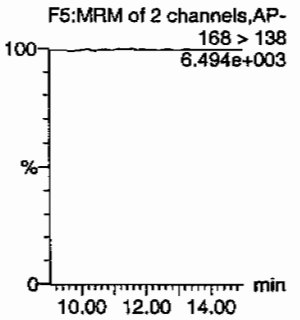
135-Trinitrobenzene



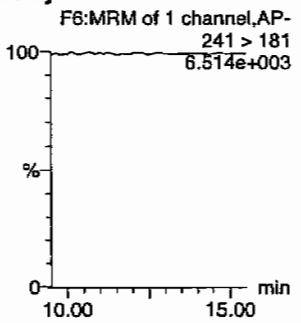
13-Dinitrobenzene-d4



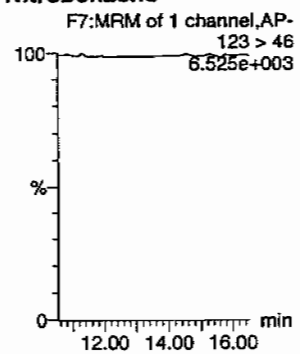
13-Dinitrobenzene



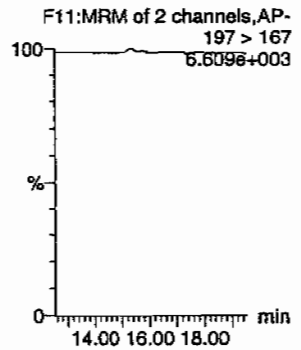
Tetryl



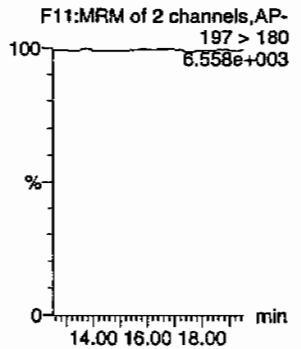
Nitrobenzene



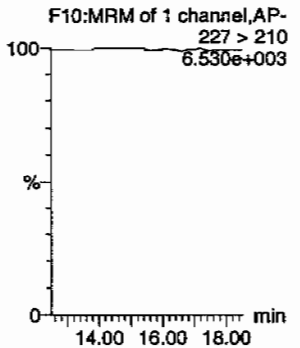
4-Amino-26-dinitrotoluene



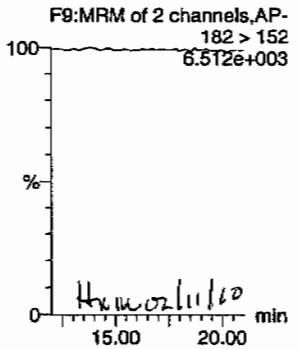
2-Amino-46-dinitrotoluene



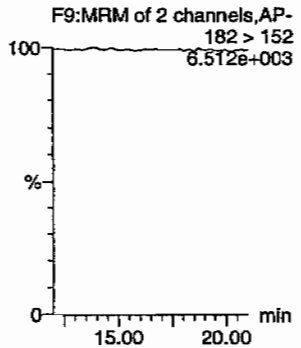
246-Trinitrotoluene



34-dinitrotoluene



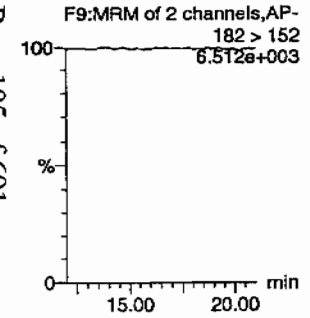
26-dinitrotoluene



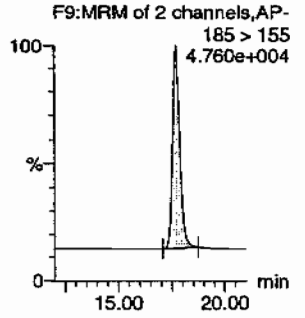
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

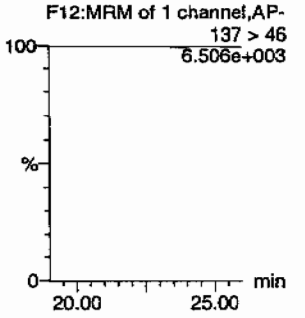
24-dinitrotoluene



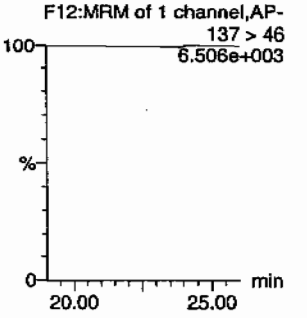
26-dinitrotoluene-d3



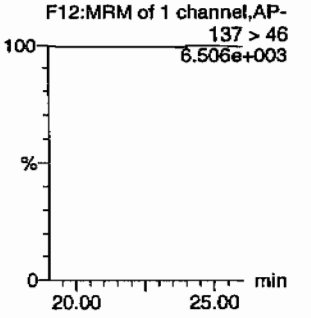
2-Nitrotoluene



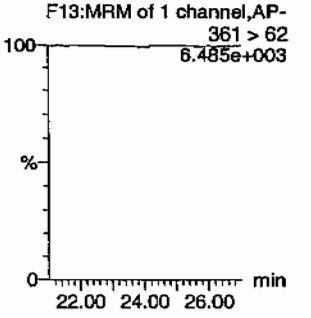
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK12	HMX	176 > 102			3172.314									
XIBLK12	RDX	176 > 102			3172.314									
XIBLK12	135-Trinitrobenzene	213 > 183			3172.314			MM-	11-Feb-10	09:24:25				
XIBLK12	13-Dinitrobenzene-d4	172 > 142	12.21	3172.314		3172.314	3172.314	bb			493.4269	98.7	-1.3	568.0
XIBLK12	13-Dinitrobenzene	168 > 138			3172.314									
XIBLK12	Tetryl	241 > 181			3172.314									
XIBLK12	Nitrobenzene	123 > 46			3172.314									
XIBLK12	4-Amino-26-dinitrotoluene	197 > 167			16405.785									
XIBLK12	2-Amino-46-dinitrotoluene	197 > 180			16405.785									
XIBLK12	246-Trinitrotoluene	227 > 210			16405.785									
XIBLK12	34-dinitrotoluene	182 > 152			16405.785									
XIBLK12	26-dinitrotoluene	182 > 152			16405.785									
XIBLK12	24-dinitrotoluene	182 > 152			16405.785									
XIBLK12	26-dinitrotoluene-d3	185 > 155	17.70	16405.785		16405.785	16405.785	bb			444.3680	88.9	-11.1	967.6
XIBLK12	2-Nitrotoluene	137 > 46			16405.785									
XIBLK12	4-Nitrotoluene	137 > 46			16405.785									
XIBLK12	3-Nitrotoluene	137 > 46			16405.785									
XIBLK12	PETN	361 > 62			16405.785									

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

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

4A
Explosives Continuing Calibration Blank

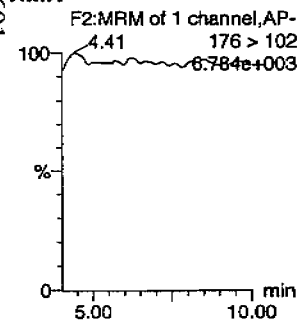
Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK13
Analysis Date: 10-FEB-10 22:19
GEL Data File: EXP0208114a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	507.231
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	572.472
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

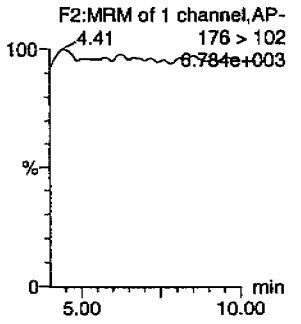
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208114a
Date: 10-Feb-2010
Time: 22:19:14
ID: XIBLK13
Vial: 1:1,A

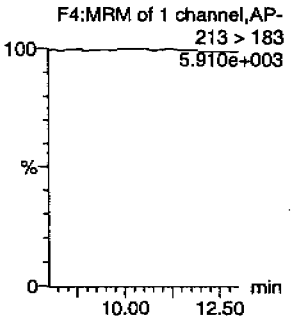
HMX



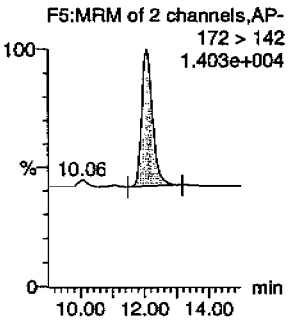
RDX



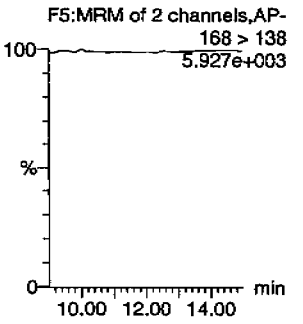
135-Trinitrobenzene



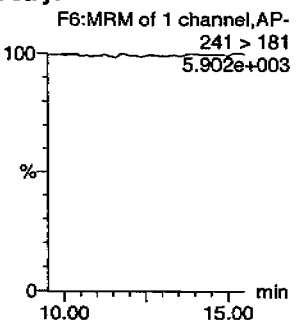
13-Dinitrobenzene-d4



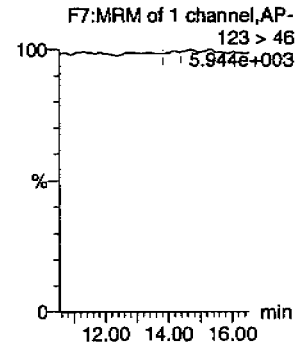
13-Dinitrobenzene



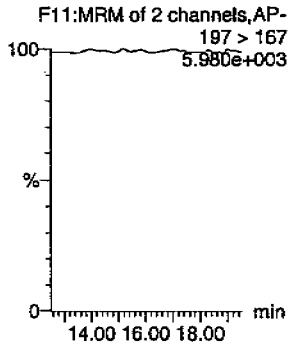
Tetryl



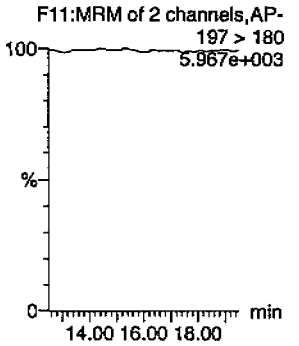
Nitrobenzene



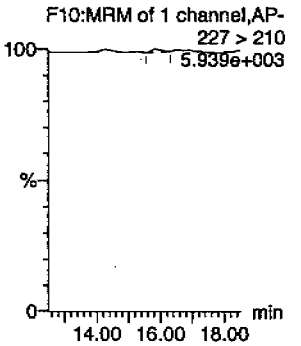
4-Amino-26-dinitrotoluene



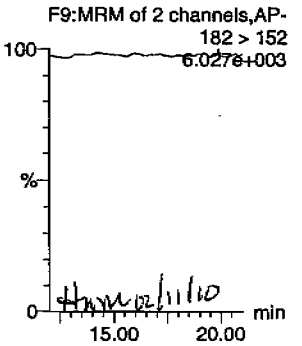
2-Amino-46-dinitrotoluene



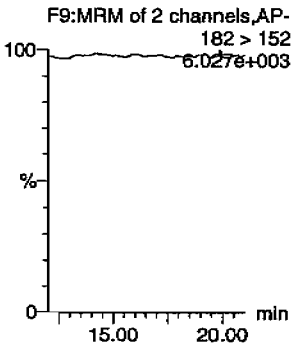
246-Trinitrotoluene



34-dinitrotoluene

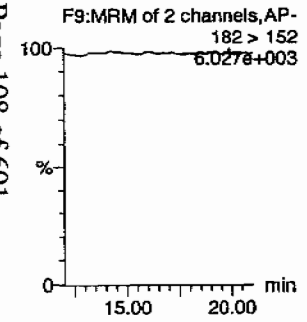


26-dinitrotoluene

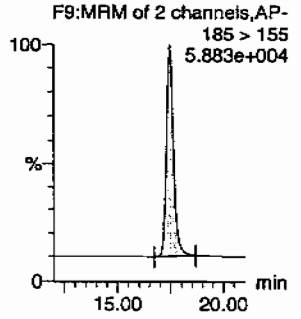


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

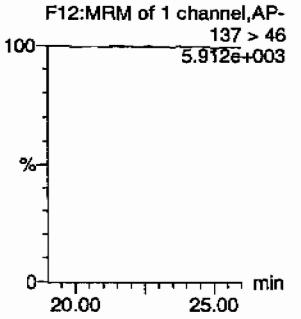
24-dinitrotoluene



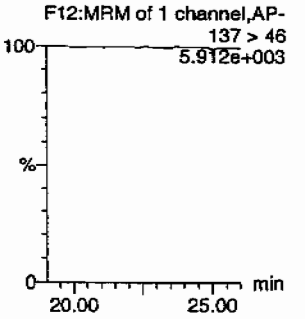
26-dinitrotoluene-d3



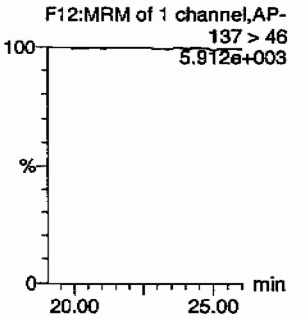
2-Nitrotoluene



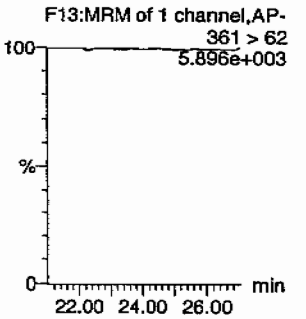
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK13	HMX	176 > 102			3261.062									
XIBLK13	RDX	176 > 102			3261.062									
XIBLK13	135-Trinitrobenzene	213 > 183			3261.062									
XIBLK13	13-Dinitrobenzene-d4	172 > 142	12.07	3261.062		3261.062	3261.062	bb			507.2309	101.4	1.4	412.3
XIBLK13	13-Dinitrobenzene	168 > 138			3261.062									
XIBLK13	Tetryl	241 > 181			3261.062									
XIBLK13	Nitrobenzene	123 > 46			3261.062			MM-	11-Feb-10	09:26:18				
XIBLK13	4-Amino-26-dinitrotoluene	197 > 167			21135.303									
XIBLK13	2-Amino-46-dinitrotoluene	197 > 180			21135.303									
XIBLK13	246-Trinitrotoluene	227 > 210			21135.303			MM-	11-Feb-10	09:55:57				
XIBLK13	34-dinitrotoluene	182 > 152			21135.303									
XIBLK13	26-dinitrotoluene	182 > 152			21135.303									
XIBLK13	24-dinitrotoluene	182 > 152			21135.303									
XIBLK13	26-dinitrotoluene-d3	185 > 155	17.46	21135.303		21135.303	21135.303	bb			572.4720	114.5	14.5	2332.9
XIBLK13	2-Nitrotoluene	137 > 46			21135.303									
XIBLK13	4-Nitrotoluene	137 > 46			21135.303									
XIBLK13	3-Nitrotoluene	137 > 46			21135.303									
XIBLK13	PETN	361 > 62			21135.303									

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

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

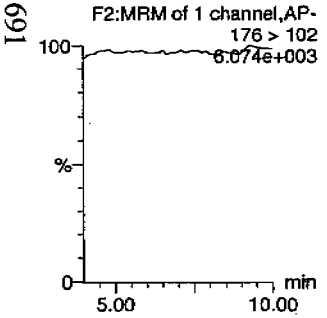
4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK14
Analysis Date: 11-FEB-10 01:45
GEL Data File: EXP0208121a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

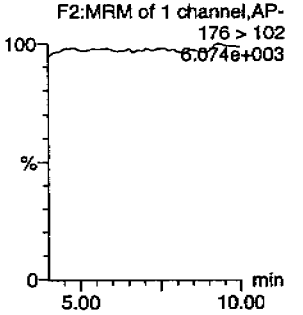
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	460.845
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	484.127
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208121a
Date: 11-Feb-2010
Time: 01:45:43
ID: XIBLK14
Vial: 1:1,A

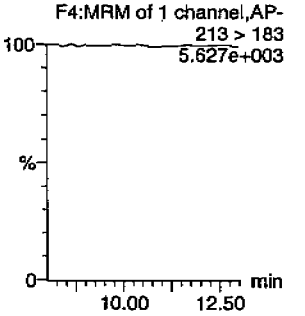
HMX



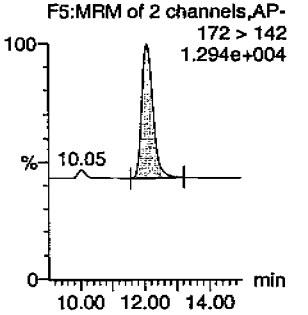
RDX



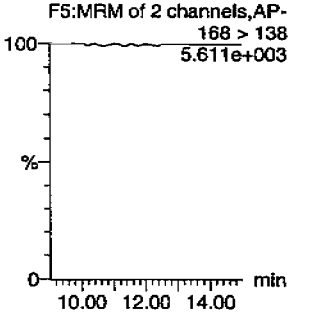
135-Trinitrobenzene



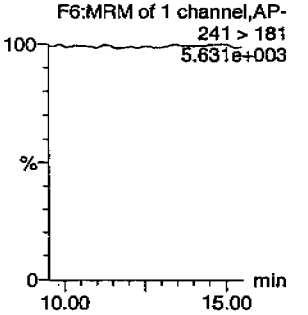
13-Dinitrobenzene-d4



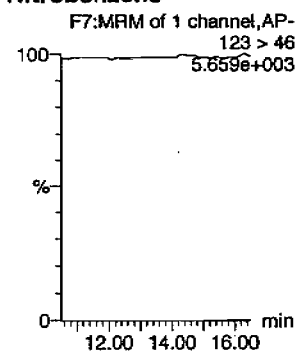
13-Dinitrobenzene



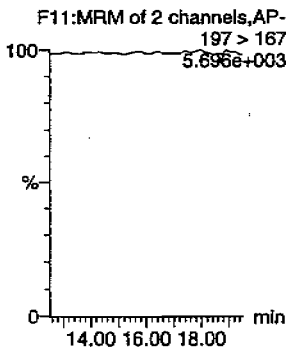
Tetryl



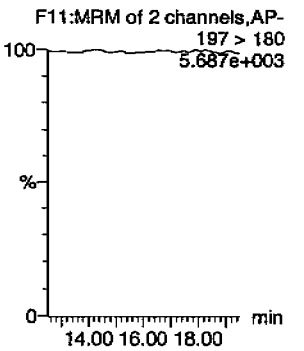
Nitrobenzene



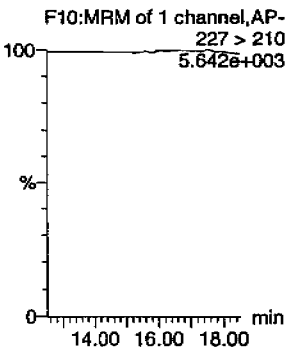
4-Amino-26-dinitrotoluene



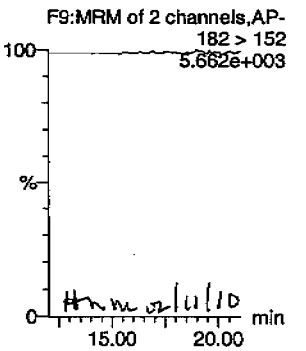
2-Amino-46-dinitrotoluene



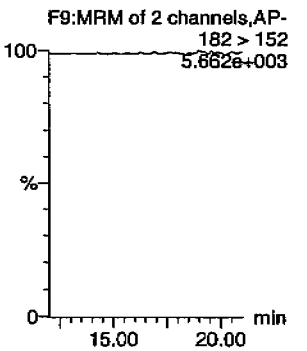
246-Trinitrotoluene



34-dinitrotoluene



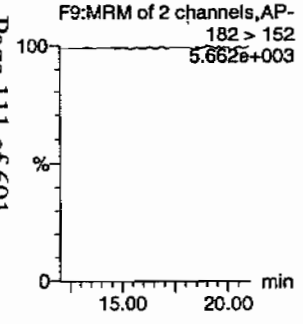
26-dinitrotoluene



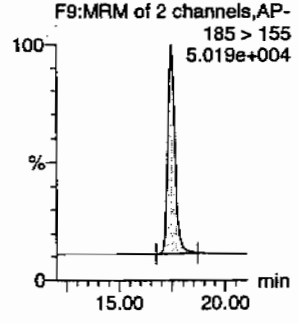
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

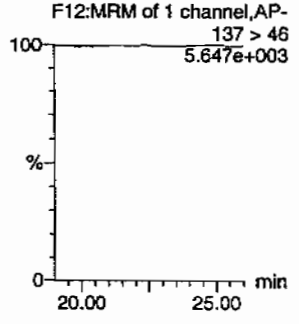
24-dinitrotoluene



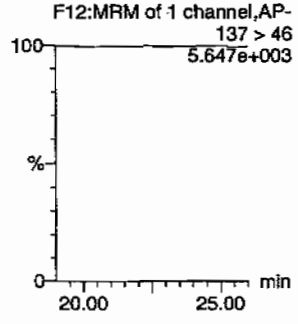
26-dinitrotoluene-d3



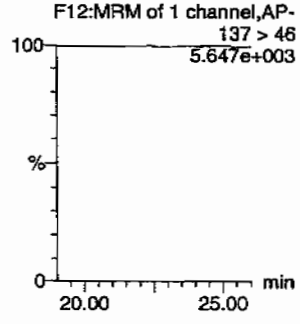
2-Nitrotoluene



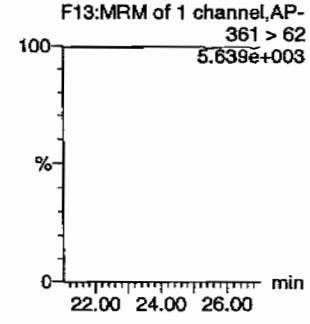
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs:Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK14	HMX	176 > 102			2962.838									
XIBLK14	RDX	176 > 102			2962.838									
XIBLK14	135-Trinitrobenzene	213 > 183			2962.838									
XIBLK14	13-Dinitrobenzene-d4	172 > 142	12.07	2962.838		2962.838	2962.838	bb			460.8446	92.2	-7.8	93.8
XIBLK14	13-Dinitrobenzene	168 > 138			2962.838									
XIBLK14	Tetryl	241 > 181			2962.838									
XIBLK14	Nitrobenzene	123 > 46			2962.838									
XIBLK14	4-Amino-26-dinitrotoluene	197 > 167			17873.645									
XIBLK14	2-Amino-46-dinitrotoluene	197 > 180			17873.645									
XIBLK14	246-Trinitrotoluene	227 > 210			17873.645									
XIBLK14	34-dinitrotoluene	182 > 152			17873.645									
XIBLK14	26-dinitrotoluene	182 > 152			17873.645									
XIBLK14	24-dinitrotoluene	182 > 152			17873.645									
XIBLK14	26-dinitrotoluene-d3	185 > 155	17.46	17873.645		17873.645	17873.645	bb			484.1266	96.8	-3.2	1654.2
XIBLK14	2-Nitrotoluene	137 > 46			17873.645									
XIBLK14	4-Nitrotoluene	137 > 46			17873.645									
XIBLK14	3-Nitrotoluene	137 > 46			17873.645									
XIBLK14	PETN	361 > 62			17873.645									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK15
Analysis Date: 11-FEB-10 08:09
GEL Data File: EXP0208134a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

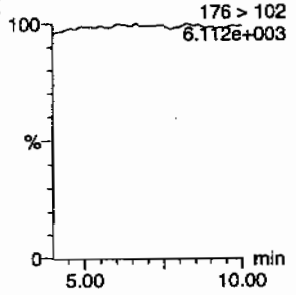
Compound	True	Found (ug/L)
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	574.283
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	594.383
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

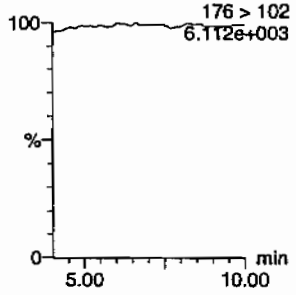
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208134a
Date: 11-Feb-2010
Time: 08:09:15
ID: XIBLK15
Vial: 1:1,A

MM 2/11/10

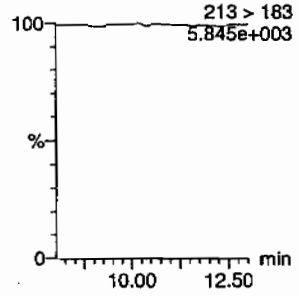
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.112e+003



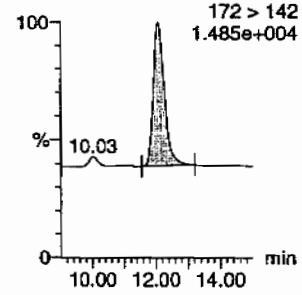
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.112e+003



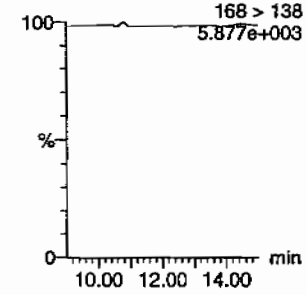
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.845e+003



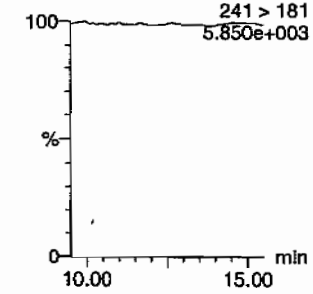
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.485e+004



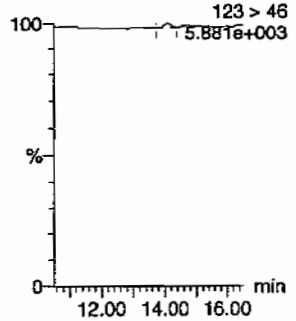
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
5.877e+003



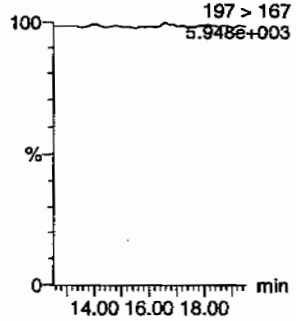
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
5.850e+003



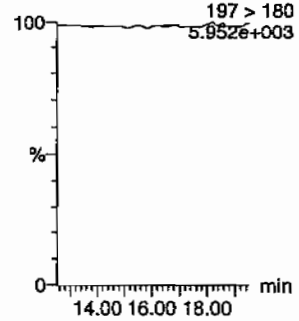
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
5.881e+003



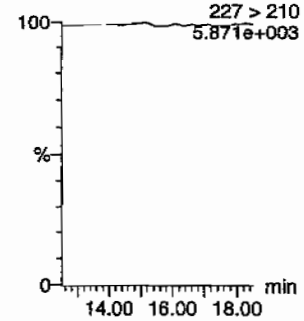
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
5.948e+003



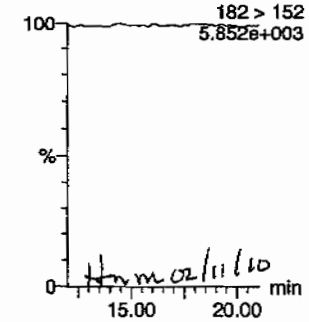
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
5.952e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
5.871e+003

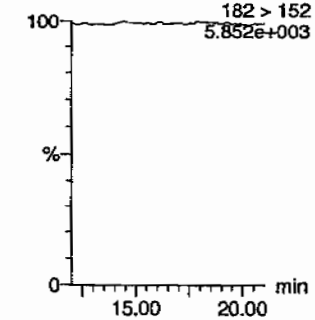


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
5.852e+003



Hmm 02/11/10

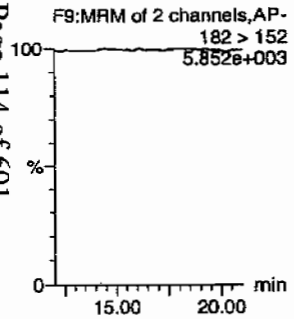
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
5.852e+003



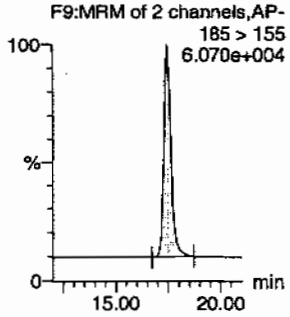
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

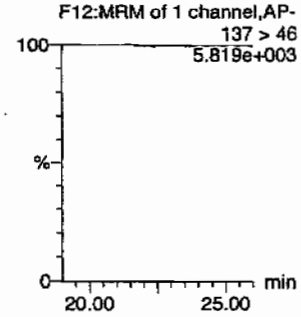
24-dinitrotoluene



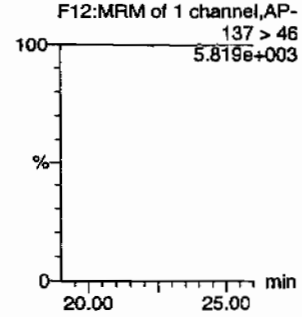
26-dinitrotoluene-d3



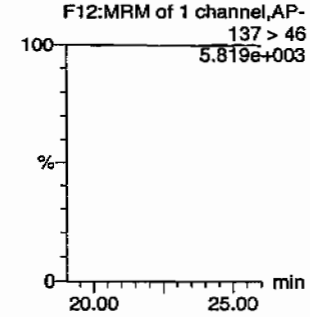
2-Nitrotoluene



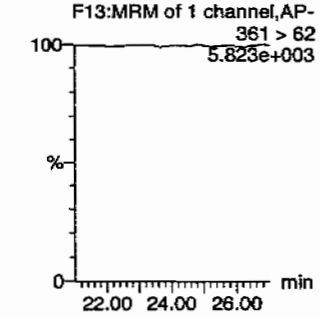
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK15	HMX	176 > 102			3692.150									
XIBLK15	RDX	176 > 102			3692.150									
XIBLK15	135-Trinitrobenzene	213 > 183			3692.150									
XIBLK15	13-Dinitrobenzene-d4	172 > 142	12.07	3692.150		3692.150	3692.150	bb			574.2830	114.9	14.9	272.1
XIBLK15	13-Dinitrobenzene	168 > 138			3692.150									
XIBLK15	Tetryl	241 > 181			3692.150									
XIBLK15	Nitrobenzene	123 > 46			3692.150			MM-	11-Feb-10	09:26:34				
XIBLK15	4-Amino-26-dinitrotoluene	197 > 167			21944.232									
XIBLK15	2-Amino-46-dinitrotoluene	197 > 180			21944.232									
XIBLK15	246-Trinitrotoluene	227 > 210			21944.232									
XIBLK15	34-dinitrotoluene	182 > 152			21944.232									
XIBLK15	26-dinitrotoluene	182 > 152			21944.232									
XIBLK15	24-dinitrotoluene	182 > 152			21944.232									
XIBLK15	26-dinitrotoluene-d3	185 > 155	17.46	21944.232		21944.232	21944.232	bb			594.3827	118.9	18.9	1682.3
XIBLK15	2-Nitrotoluene	137 > 46			21944.232									
XIBLK15	4-Nitrotoluene	137 > 46			21944.232									
XIBLK15	3-Nitrotoluene	137 > 46			21944.232									
XIBLK15	PETN	361 > 62			21944.232									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK16
Analysis Date: 11-FEB-10 14:03
GEL Data File: EXP0208146a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

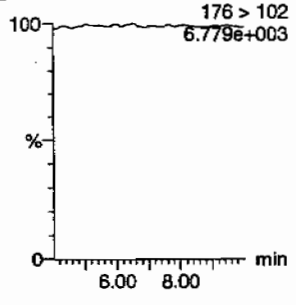
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	571.158
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	588.501
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

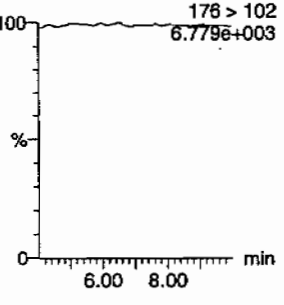
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208146a
Date: 11-Feb-2010
Time: 14:03:38
ID: XIBLK16
Vial: 1:1,A

Page 116 of 691

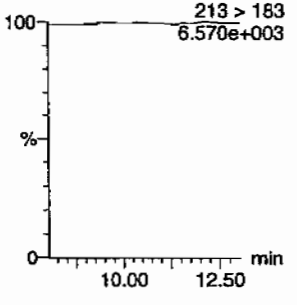
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.779e+003



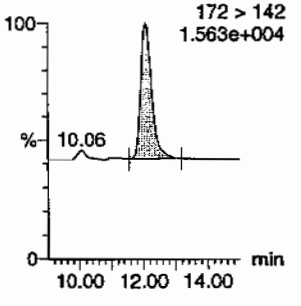
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.779e+003



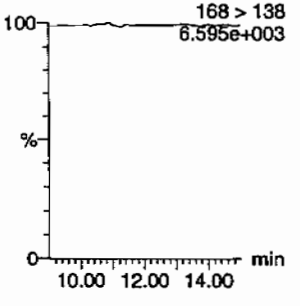
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.570e+003



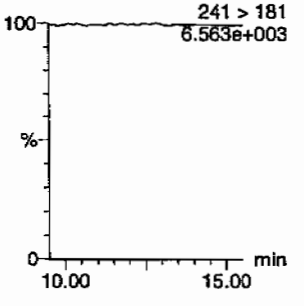
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.563e+004



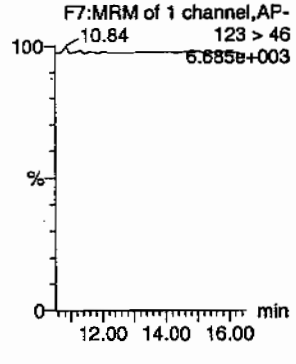
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.595e+003



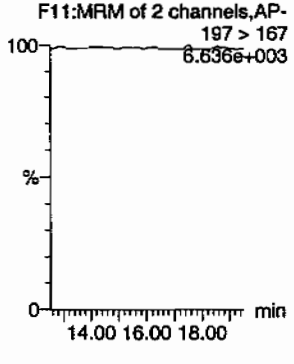
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.563e+003



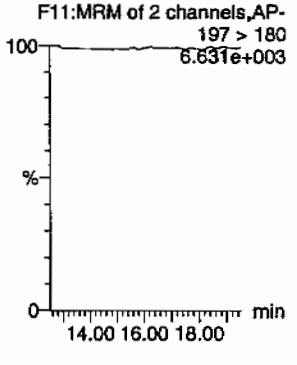
Nitrobenzene
F7:MRM of 1 channel,AP-
10.84
123 > 46
6.685e+003



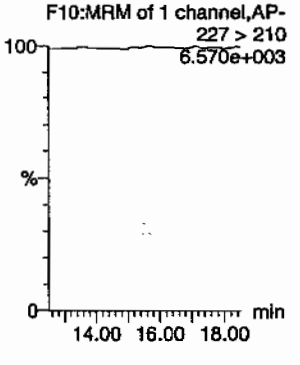
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.636e+003



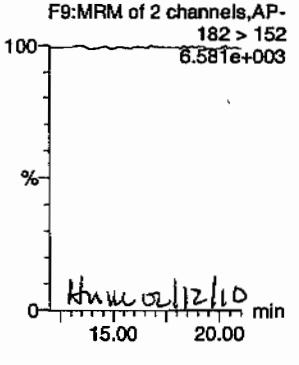
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.631e+003



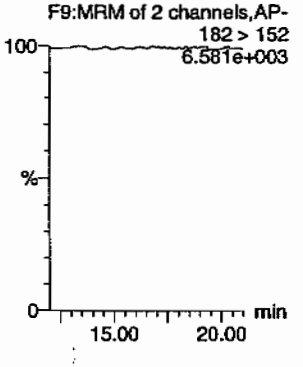
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.570e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.581e+003

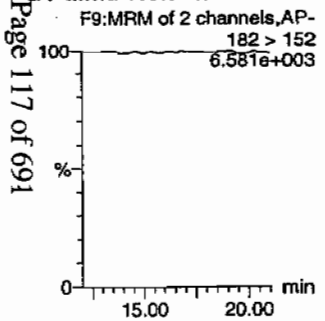


26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.581e+003

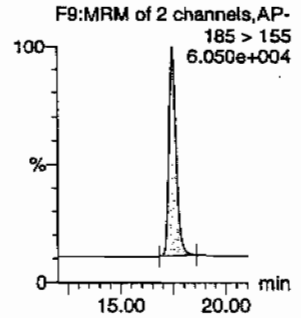


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

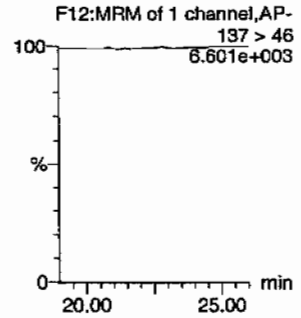
24-dinitrotoluene



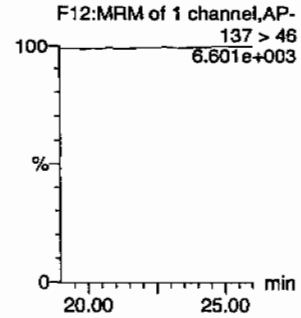
26-dinitrotoluene-d3



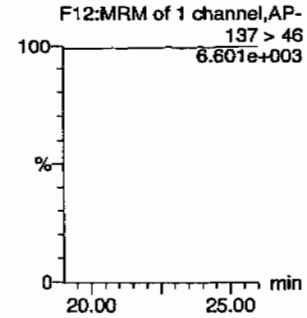
2-Nitrotoluene



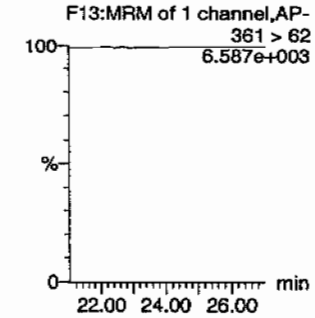
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK16	HMX	176 > 102			3672.062									
XIBLK16	RDX	176 > 102			3672.062									
XIBLK16	135-Trinitrobenzene	213 > 183			3672.062									
XIBLK16	13-Dinitrobenzene-d4	172 > 142	12.07	3672.062		3672.062	3672.062	bb			571.1585	114.2	14.2	399.7
XIBLK16	13-Dinitrobenzene	168 > 138			3672.062									
XIBLK16	Tetryl	241 > 181			3672.062									
XIBLK16	Nitrobenzene	123 > 46			3672.062									
XIBLK16	4-Amino-26-dinitrotoluene	197 > 167			21727.074									
XIBLK16	2-Amino-46-dinitrotoluene	197 > 180			21727.074									
XIBLK16	246-Trinitrotoluene	227 > 210			21727.074									
XIBLK16	34-dinitrotoluene	182 > 152			21727.074									
XIBLK16	26-dinitrotoluene	182 > 152			21727.074									
XIBLK16	24-dinitrotoluene	182 > 152			21727.074									
XIBLK16	26-dinitrotoluene-d3	185 > 155	17.46	21727.074		21727.074	21727.074	bb			588.5008	117.7	17.7	2034.5
XIBLK16	2-Nitrotoluene	137 > 46			21727.074									
XIBLK16	4-Nitrotoluene	137 > 46			21727.074									
XIBLK16	3-Nitrotoluene	137 > 46			21727.074									
XIBLK16	PETN	361 > 62			21727.074									

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

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK17

Analysis Date: 11-FEB-10 18:58

GEL Data File: EXP0208156a

Instrument ID: LCMSMS

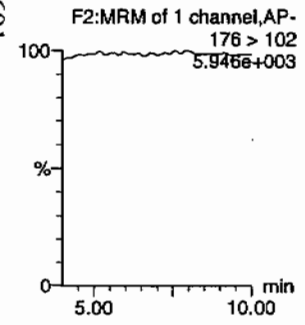
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	492.787
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	564
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

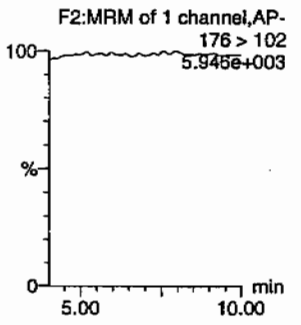
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208156a
Date: 11-Feb-2010
Time: 18:58:59
ID: XIBLK17
Vial: 1:1,A

MMTP 2/12/10

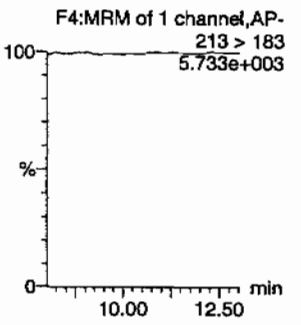
HMX
F2:MRM of 1 channel,AP-
176 > 102
5.946e+003



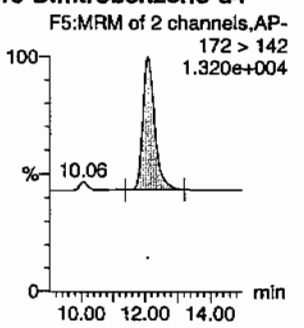
RDX
F2:MRM of 1 channel,AP-
176 > 102
5.945e+003



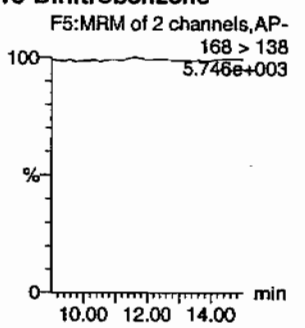
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.733e+003



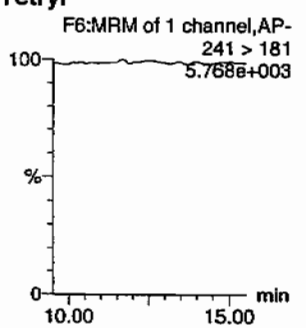
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.320e+004



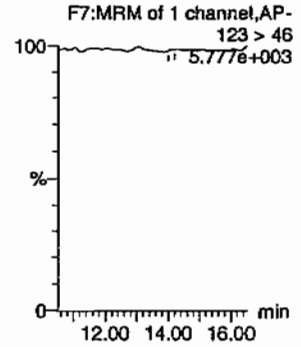
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
5.746e+003



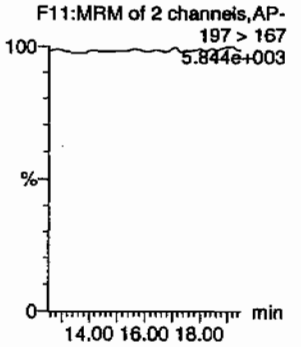
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
5.768e+003



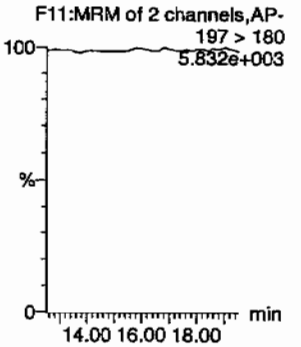
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
5.777e+003



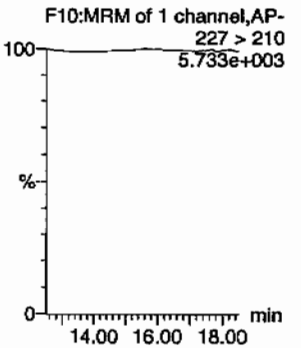
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
5.844e+003



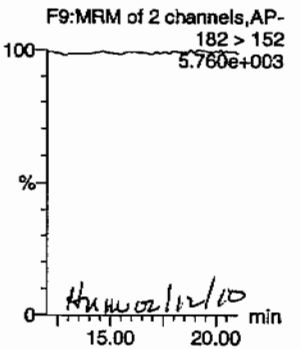
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
5.832e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
5.733e+003

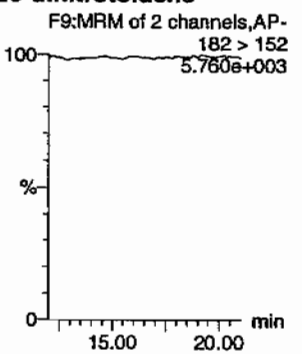


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
5.760e+003



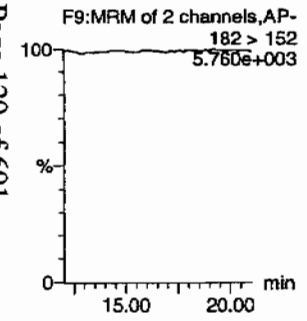
HMM 02/12/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
5.760e+003

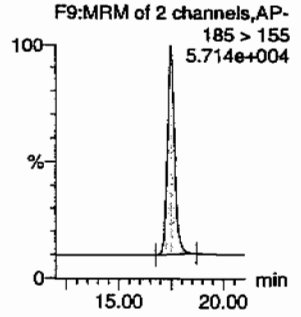


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

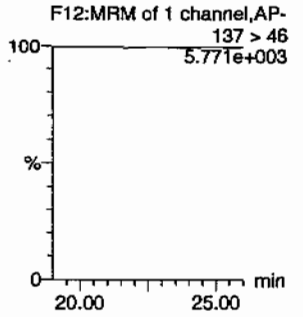
24-dinitrotoluene



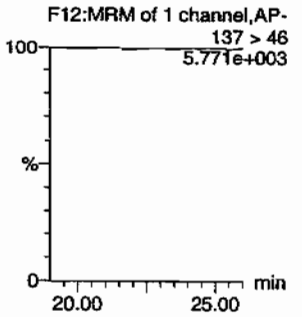
26-dinitrotoluene-d3



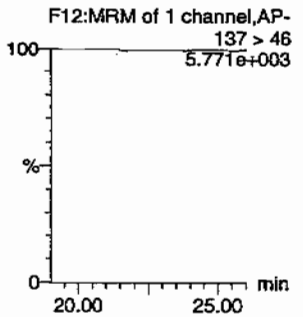
2-Nitrotoluene



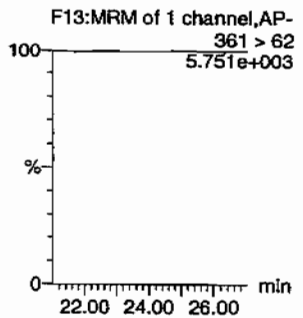
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK17	HMX	176 > 102			3168.198									
XIBLK17	RDX	176 > 102			3168.198									
XIBLK17	135-Trinitrobenzene	213 > 183			3168.198									
XIBLK17	13-Dinitrobenzene-d4	172 > 142	12.10	3168.198		3168.198	3168.198	bb			492.7867	98.6	-1.4	174.2
XIBLK17	13-Dinitrobenzene	168 > 138			3168.198									
XIBLK17	Tetryl	241 > 181			3168.198									
XIBLK17	Nitrobenzene	123 > 46			3168.198			MM-	12-Feb-10	07:57:31				
XIBLK17	4-Amino-26-dinitrotoluene	197 > 167			20822.535									
XIBLK17	2-Amino-46-dinitrotoluene	197 > 180			20822.535									
XIBLK17	246-Trinitrotoluene	227 > 210			20822.535									
XIBLK17	34-dinitrotoluene	182 > 152			20822.535									
XIBLK17	26-dinitrotoluene	182 > 152			20822.535									
XIBLK17	24-dinitrotoluene	182 > 152			20822.535									
XIBLK17	26-dinitrotoluene-d3	185 > 155	17.48	20822.535		20822.535	20822.535	bb			564.0004	112.8	12.8	2100.9
XIBLK17	2-Nitrotoluene	137 > 46			20822.535									
XIBLK17	4-Nitrotoluene	137 > 46			20822.535									
XIBLK17	3-Nitrotoluene	137 > 46			20822.535									
XIBLK17	PETN	361 > 62			20822.535									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK18

Analysis Date: 12-FEB-10 01:22

GEL Data File: EXP0208169a

Instrument ID: LCMSMS

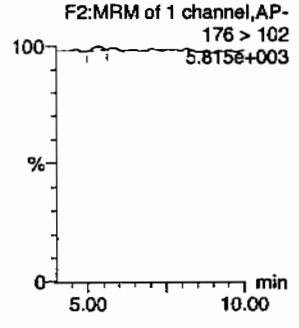
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	440.022
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	437.531
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0

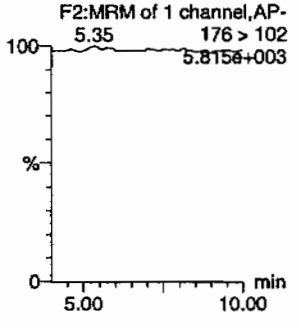
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208169a
Date: 12-Feb-2010
Time: 01:22:24
ID: XIBLK18
Vial: 1:1,A

MAT 2/12/10

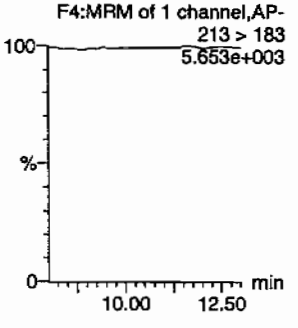
HMX
F2:MRM of 1 channel,AP-
176 > 102
5.815e+003



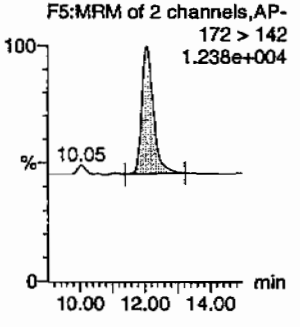
RDX
F2:MRM of 1 channel,AP-
5.35
176 > 102
5.815e+003



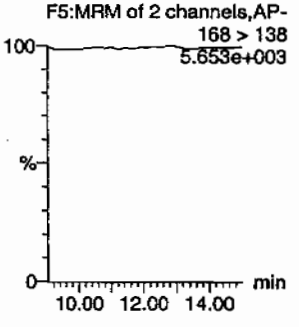
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.653e+003



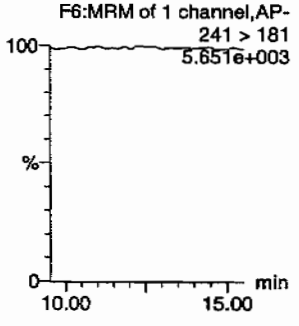
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.238e+004



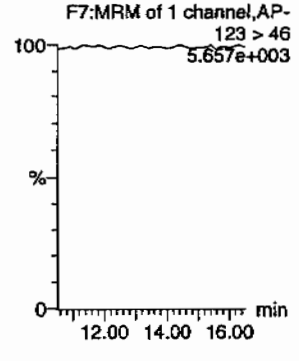
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
5.653e+003



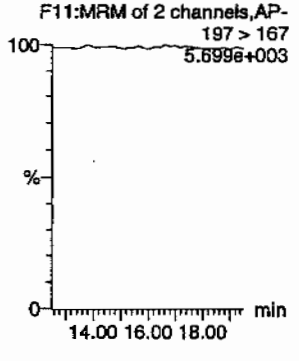
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
5.651e+003



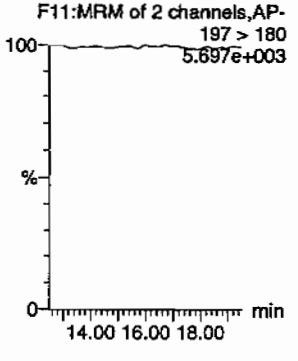
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
5.657e+003



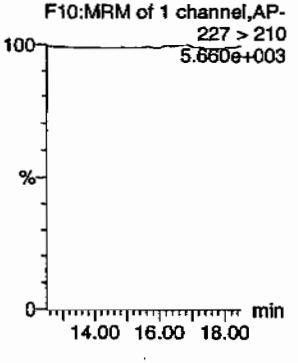
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
5.699e+003



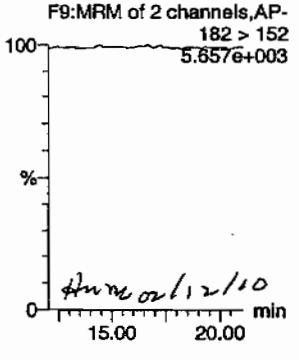
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
5.697e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
5.660e+003

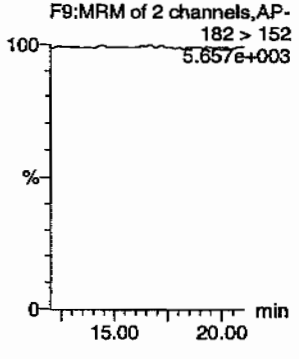


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
5.657e+003



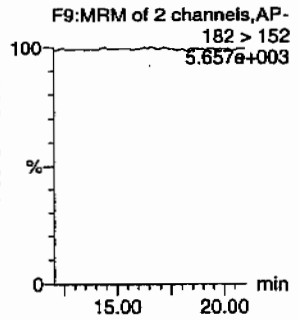
dmm 02/12/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
5.657e+003

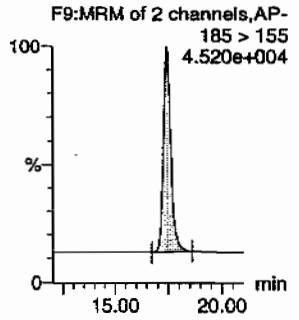


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

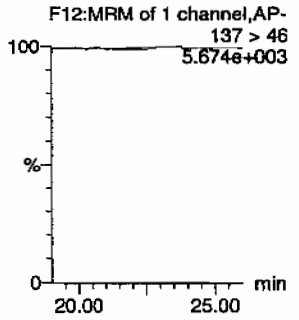
24-dinitrotoluene



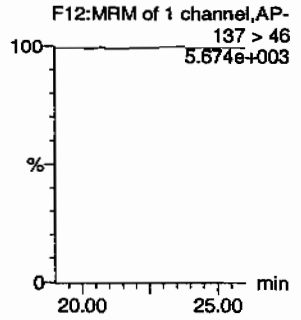
26-dinitrotoluene-d3



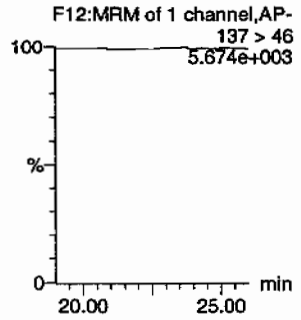
2-Nitrotoluene



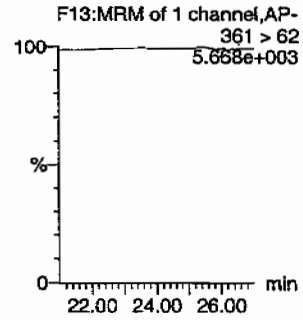
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs:Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK18	HMX	176 > 102			2812.949			MM-	12-Feb-10	07:53:15				
XIBLK18	RDX	176 > 102			2812.949									
XIBLK18	135-Trinitrobenzene	213 > 183			2812.949									
XIBLK18	13-Dinitrobenzene-d4	172 > 142	12.07	2812.949		2812.949	2812.949	bb			437.5306	87.5	-12.5	123.0
XIBLK18	13-Dinitrobenzene	168 > 138			2812.949									
XIBLK18	Tetryl	241 > 181			2812.949									
XIBLK18	Nitrobenzene	123 > 46			2812.949									
XIBLK18	4-Amino-26-dinitrotoluene	197 > 167			16245.318									
XIBLK18	2-Amino-46-dinitrotoluene	197 > 180			16245.318									
XIBLK18	246-Trinitrotoluene	227 > 210			16245.318									
XIBLK18	34-dinitrotoluene	182 > 152			16245.318									
XIBLK18	26-dinitrotoluene	182 > 152			16245.318									
XIBLK18	24-dinitrotoluene	182 > 152			16245.318									
XIBLK18	26-dinitrotoluene-d3	185 > 155	17.46	16245.318		16245.318	16245.318	bb			440.0216	88.0	-12.0	1126.2
XIBLK18	2-Nitrotoluene	137 > 46			16245.318									
XIBLK18	4-Nitrotoluene	137 > 46			16245.318									
XIBLK18	3-Nitrotoluene	137 > 46			16245.318									
XIBLK18	PETN	361 > 62			16245.318									

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

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

4A
Explosives Continuing Calibration Blank

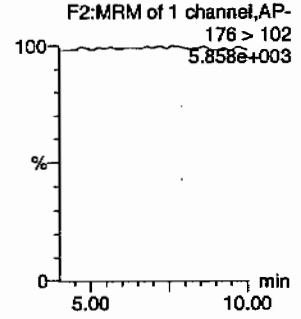
Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK19
Analysis Date: 12-FEB-10 06:47
GEL Data File: EXP0208180a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	487.474
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	475.411
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

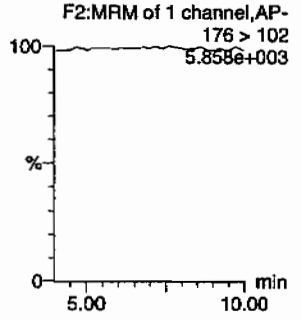
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208180a
Date: 12-Feb-2010
Time: 06:47:03
ID: XIBLK19
Vial: 1:1,A

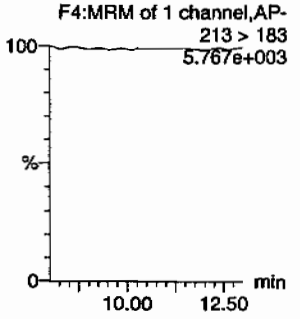
HMX



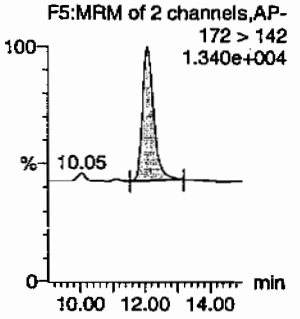
RDX



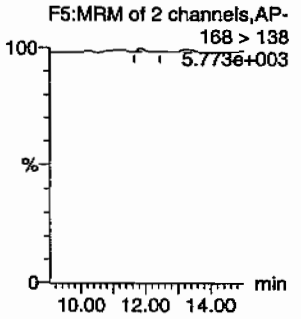
135-Trinitrobenzene



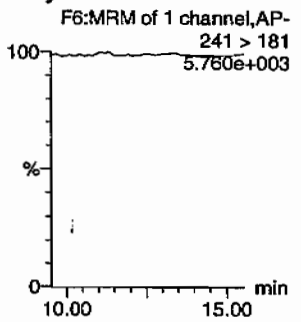
13-Dinitrobenzene-d4



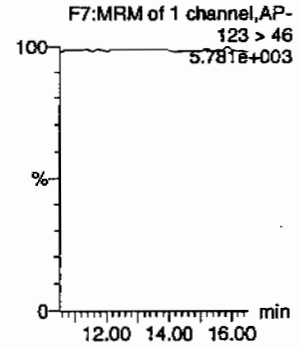
13-Dinitrobenzene



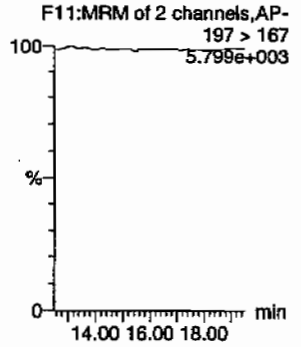
Tetryl



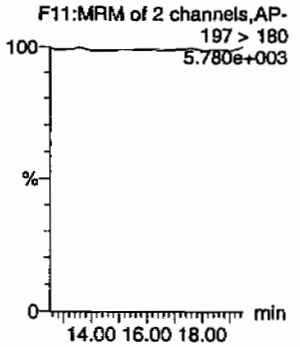
Nitrobenzene



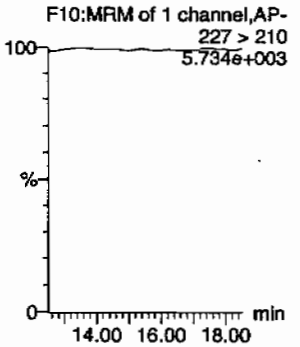
4-Amino-26-dinitrotoluene



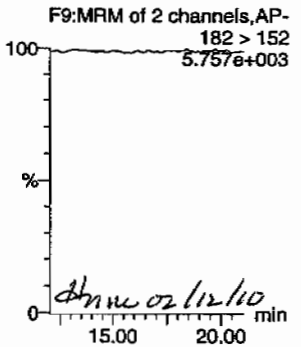
2-Amino-46-dinitrotoluene



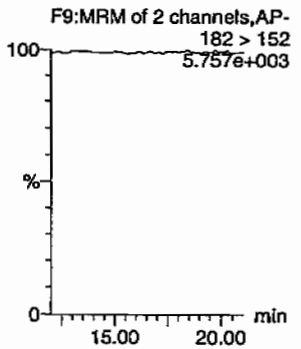
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

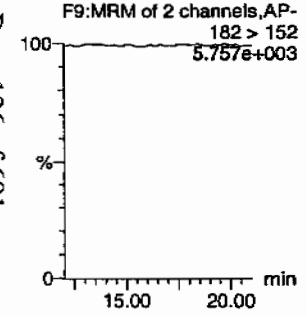


GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

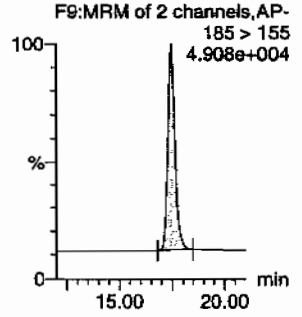
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

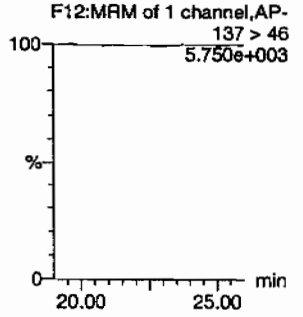
24-dinitrotoluene



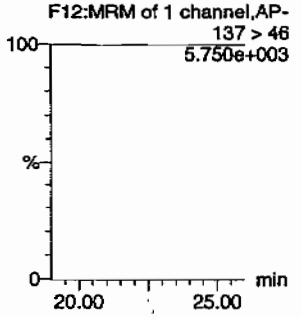
26-dinitrotoluene-d3



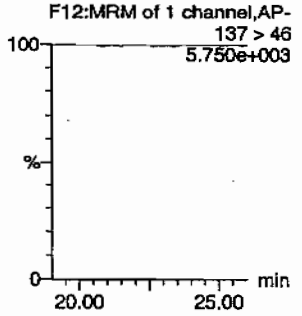
2-Nitrotoluene



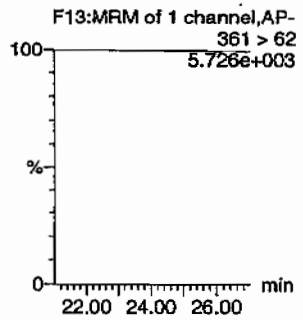
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK19	HMX	176 > 102			3134.045									
XIBLK19	RDX	176 > 102			3134.045									
XIBLK19	135-Trinitrobenzene	213 > 183			3134.045									
XIBLK19	13-Dinitrobenzene-d4	172 > 142	12.07	3134.045		3134.045	3134.045	bb			487.4744	97.5	-2.5	275.0
XIBLK19	13-Dinitrobenzene	168 > 138			3134.045			MM-	12-Feb-10	07:55:22				
XIBLK19	Tetryl	241 > 181			3134.045									
XIBLK19	Nitrobenzene	123 > 46			3134.045									
XIBLK19	4-Amino-26-dinitrotoluene	197 > 167			17551.871									
XIBLK19	2-Amino-46-dinitrotoluene	197 > 180			17551.871									
XIBLK19	246-Trinitrotoluene	227 > 210			17551.871									
XIBLK19	34-dinitrotoluene	182 > 152			17551.871									
XIBLK19	26-dinitrotoluene	182 > 152			17551.871									
XIBLK19	24-dinitrotoluene	182 > 152			17551.871									
XIBLK19	26-dinitrotoluene-d3	185 > 155	17.47	17551.871		17551.871	17551.871	bb			475.4110	95.1	-4.9	1700.9
XIBLK19	2-Nitrotoluene	137 > 46			17551.871									
XIBLK19	4-Nitrotoluene	137 > 46			17551.871									
XIBLK19	3-Nitrotoluene	137 > 46			17551.871									
XIBLK19	PETN	361 > 62			17551.871									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

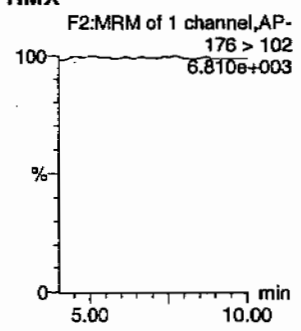
4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK20
Analysis Date: 12-FEB-10 13:11
GEL Data File: EXP0208193a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

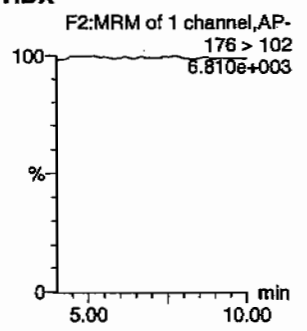
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	497.184
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	467.617
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208193a
Date: 12-Feb-2010
Time: 13:11:28
ID: XIBLK20
Vial: 1:1,A

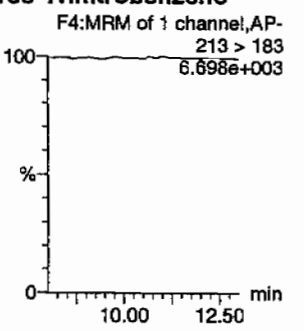
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.810e+003



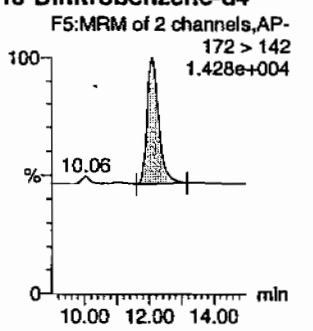
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.810e+003



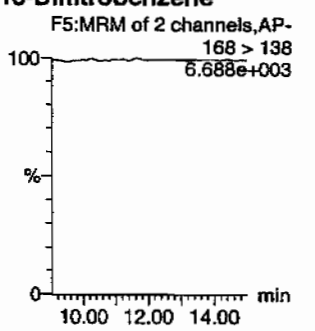
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.698e+003



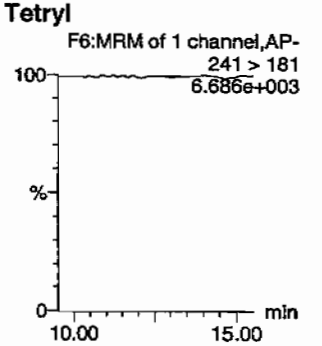
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.428e+004



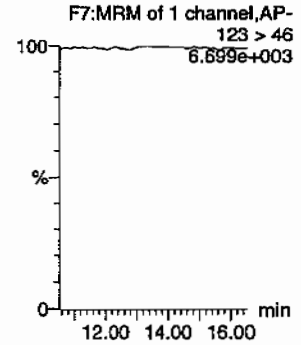
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.688e+003



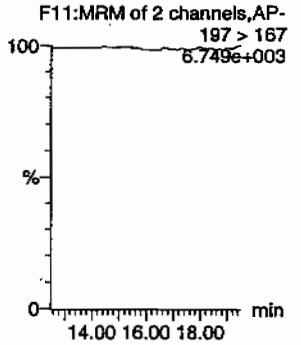
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.686e+003



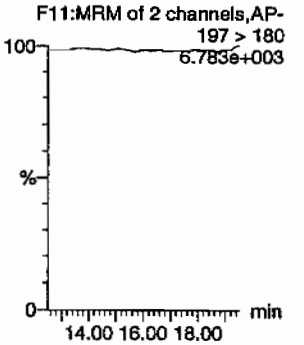
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.699e+003



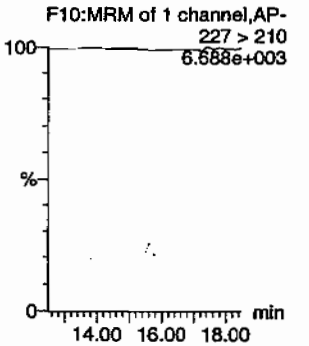
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.749e+003



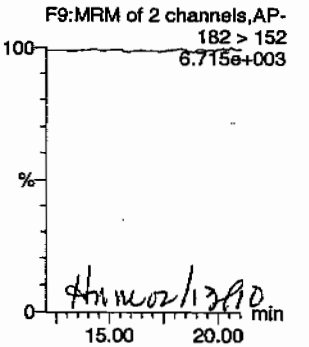
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.783e+003



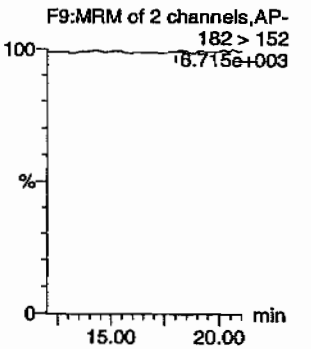
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.688e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.715e+003



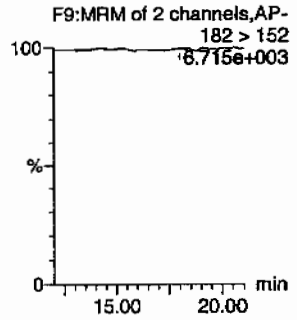
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.715e+003



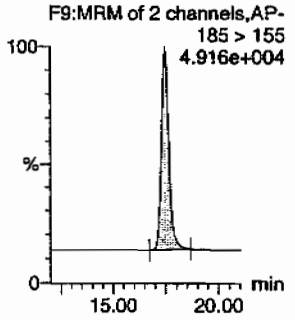
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

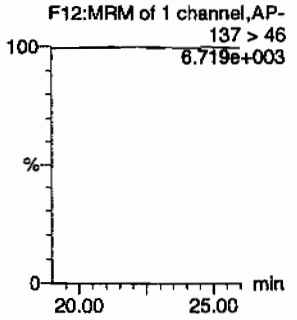
24-dinitrotoluene



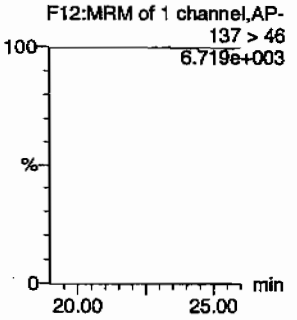
26-dinitrotoluene-d3



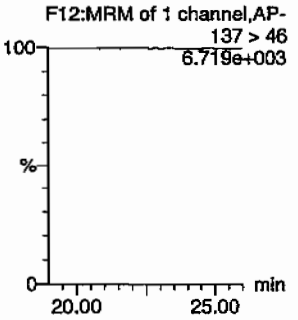
2-Nitrotoluene



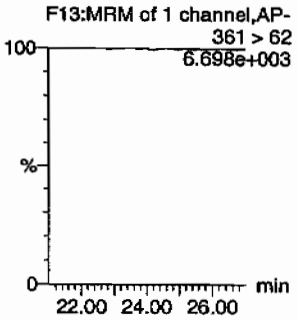
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	RF Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK20	HMX	176 > 102			3196.466									
XIBLK20	RDX	176 > 102			3196.466									
XIBLK20	135-Trinitrobenzene	213 > 183			3196.466									
XIBLK20	13-Dinitrobenzene-d4	172 > 142	12.10	3196.466		3196.466	3196.466	bb			497.1835	99.4	-0.6	280.3
XIBLK20	13-Dinitrobenzene	168 > 138			3196.466									
XIBLK20	Tetryl	241 > 181			3196.466									
XIBLK20	Nitrobenzene	123 > 46			3196.466									
XIBLK20	4-Amino-26-dinitrotoluene	197 > 167			17264.107									
XIBLK20	2-Amino-46-dinitrotoluene	197 > 180			17264.107									
XIBLK20	246-Trinitrotoluene	227 > 210			17264.107									
XIBLK20	34-dinitrotoluene	182 > 152			17264.107									
XIBLK20	26-dinitrotoluene	182 > 152			17264.107			MM-	13-Feb-10	09:24:40				
XIBLK20	24-dinitrotoluene	182 > 152			17264.107			MM-	13-Feb-10	09:27:57				
XIBLK20	26-dinitrotoluene-d3	185 > 155	17.47	17264.107		17264.107	17264.107	bb			467.6166	93.5	-6.5	1336.7
XIBLK20	2-Nitrotoluene	137 > 46			17264.107									
XIBLK20	4-Nitrotoluene	137 > 46			17264.107									
XIBLK20	3-Nitrotoluene	137 > 46			17264.107									
XIBLK20	PETN	361 > 62			17264.107									

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

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

4A
Explosives Continuing Calibration Blank

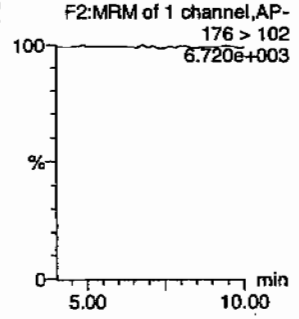
Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK21
Analysis Date: 12-FEB-10 19:05
GEL Data File: EXP0208205a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	437.64
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	490.15
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

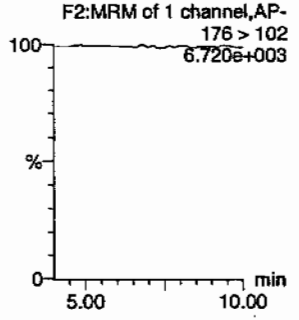
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208205a
Date: 12-Feb-2010
Time: 19:05:45
ID: XIBLK21
Vial: 1:1,A

MM 2/13/10

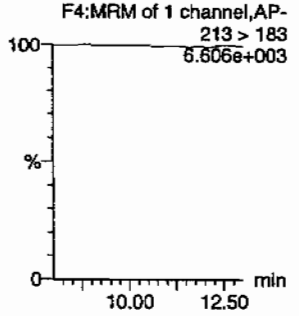
HMX



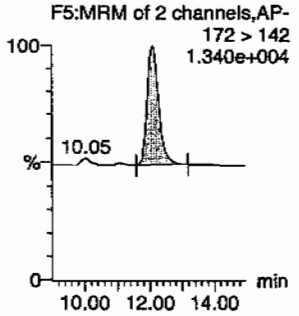
RDX



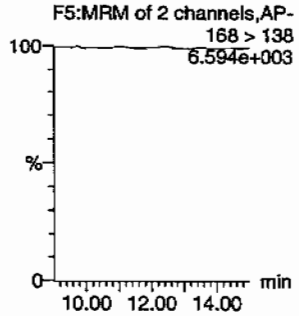
135-Trinitrobenzene



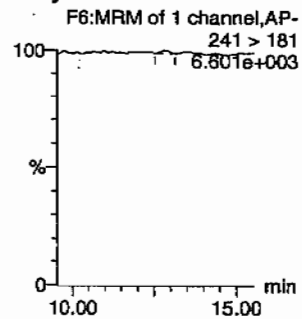
13-Dinitrobenzene-d4



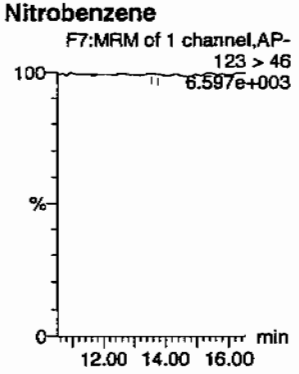
13-Dinitrobenzene



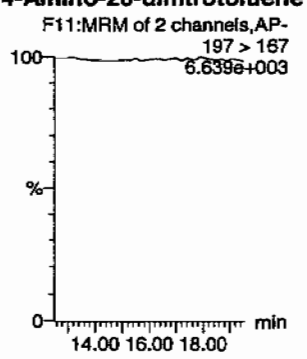
Tetryl



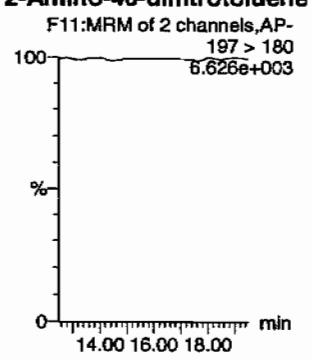
Nitrobenzene



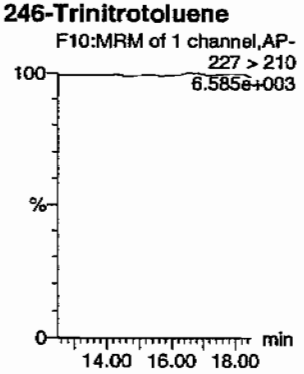
4-Amino-26-dinitrotoluene



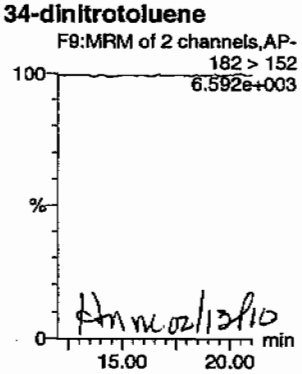
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

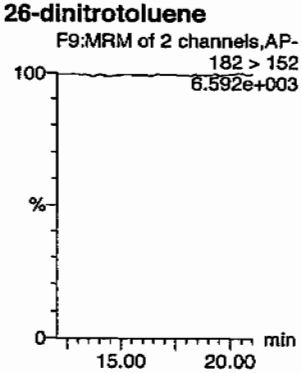


34-dinitrotoluene



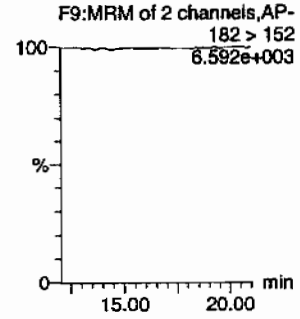
MM 02/13/10

26-dinitrotoluene

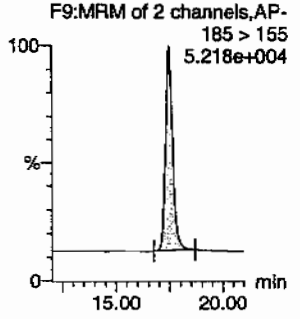


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

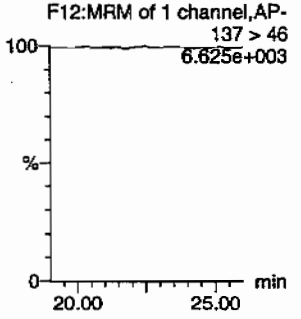
24-dinitrotoluene



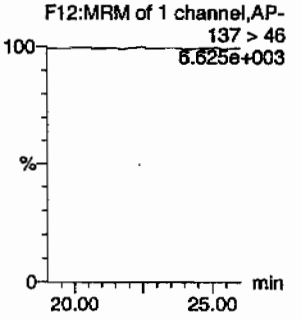
26-dinitrotoluene-d3



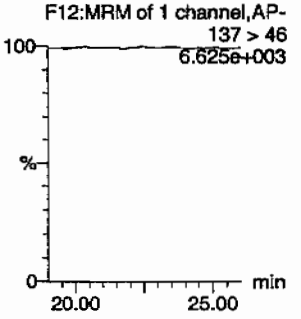
2-Nitrotoluene



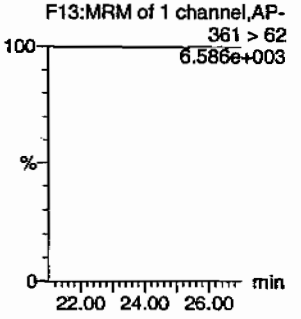
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK21	HMX	176 > 102			2813.650									
XIBLK21	RDX	176 > 102			2813.650									
XIBLK21	135-Trinitrobenzene	213 > 183			2813.650									
XIBLK21	13-Dinitrobenzene-d4	172 > 142	12.07	2813.650		2813.650	2813.650	bb			437.6397	87.5	-12.5	264.4
XIBLK21	13-Dinitrobenzene	168 > 138			2813.650									
XIBLK21	Tetryl	241 > 181			2813.650			MM-	13-Feb-10	09:17:32				
XIBLK21	Nitrobenzene	123 > 46			2813.650			MM-	13-Feb-10	09:18:58				
XIBLK21	4-Amino-26-dinitrotoluene	197 > 167			18096.025									
XIBLK21	2-Amino-46-dinitrotoluene	197 > 180			18096.025									
XIBLK21	246-Trinitrotoluene	227 > 210			18096.025									
XIBLK21	34-dinitrotoluene	182 > 152			18096.025									
XIBLK21	26-dinitrotoluene	182 > 152			18096.025									
XIBLK21	24-dinitrotoluene	182 > 152			18096.025									
XIBLK21	26-dinitrotoluene-d3	185 > 155	17.47	18096.025		18096.025	18096.025	bb			490.1500	98.0	-2.0	1864.4
XIBLK21	2-Nitrotoluene	137 > 46			18096.025									
XIBLK21	4-Nitrotoluene	137 > 46			18096.025									
XIBLK21	3-Nitrotoluene	137 > 46			18096.025									
XIBLK21	PETN	361 > 62			18096.025									

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK02
Analysis Date: 13-FEB-10 12:34
GEL Data File: EXS02130010.wiff
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

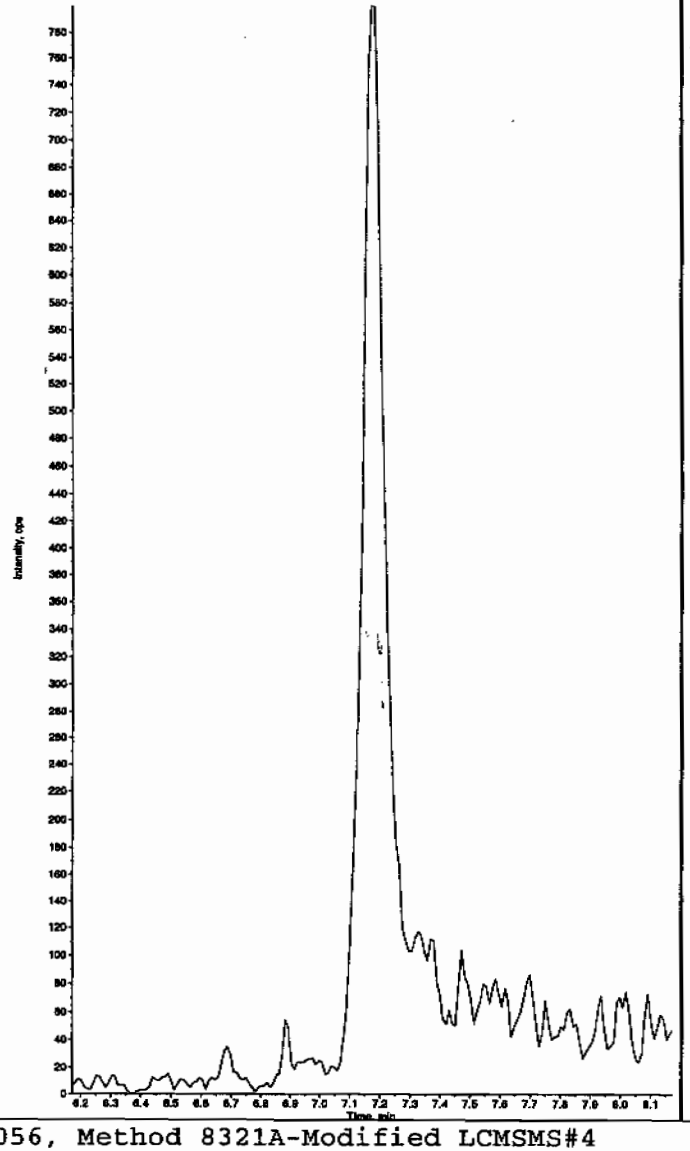
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	9.65
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Dan 2/15/10

Sample Name: "XIBLK02" Sample ID: "|1|LER" File: "EXS02130010.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 12:34:10 PM

Modified: No

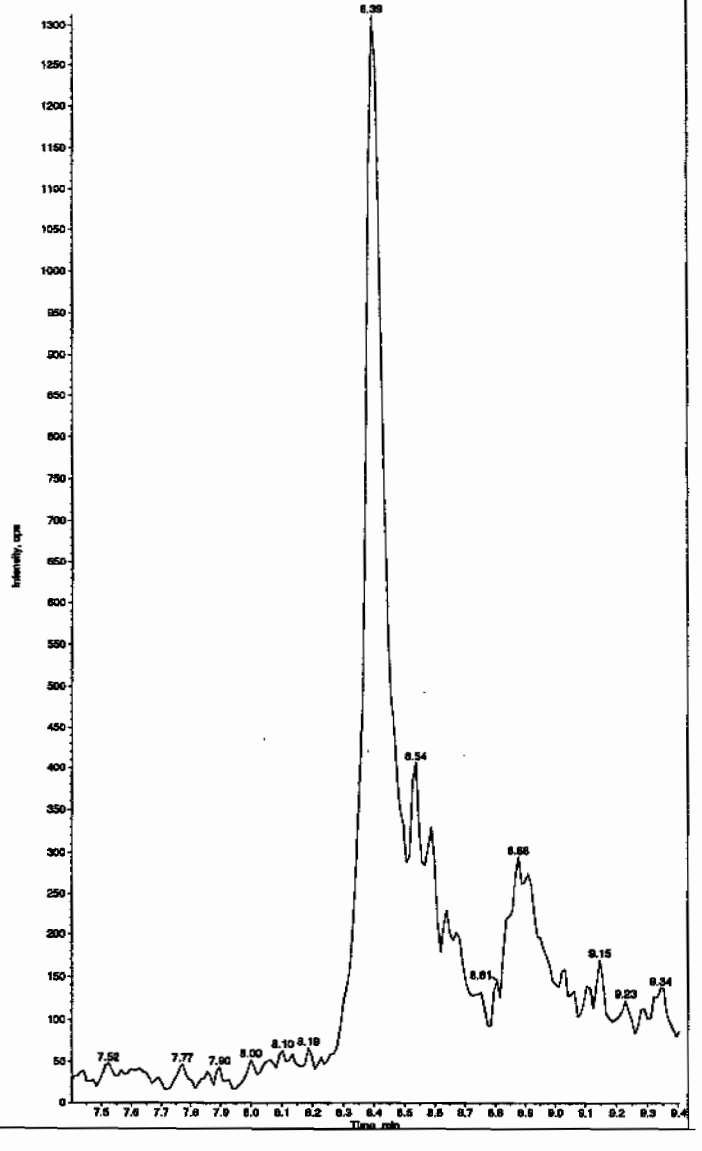


Page 34 of 691

Sample Name: "XIBLK02" Sample ID: "|1|LER" File: "EXS02130010.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 12:34:10 PM

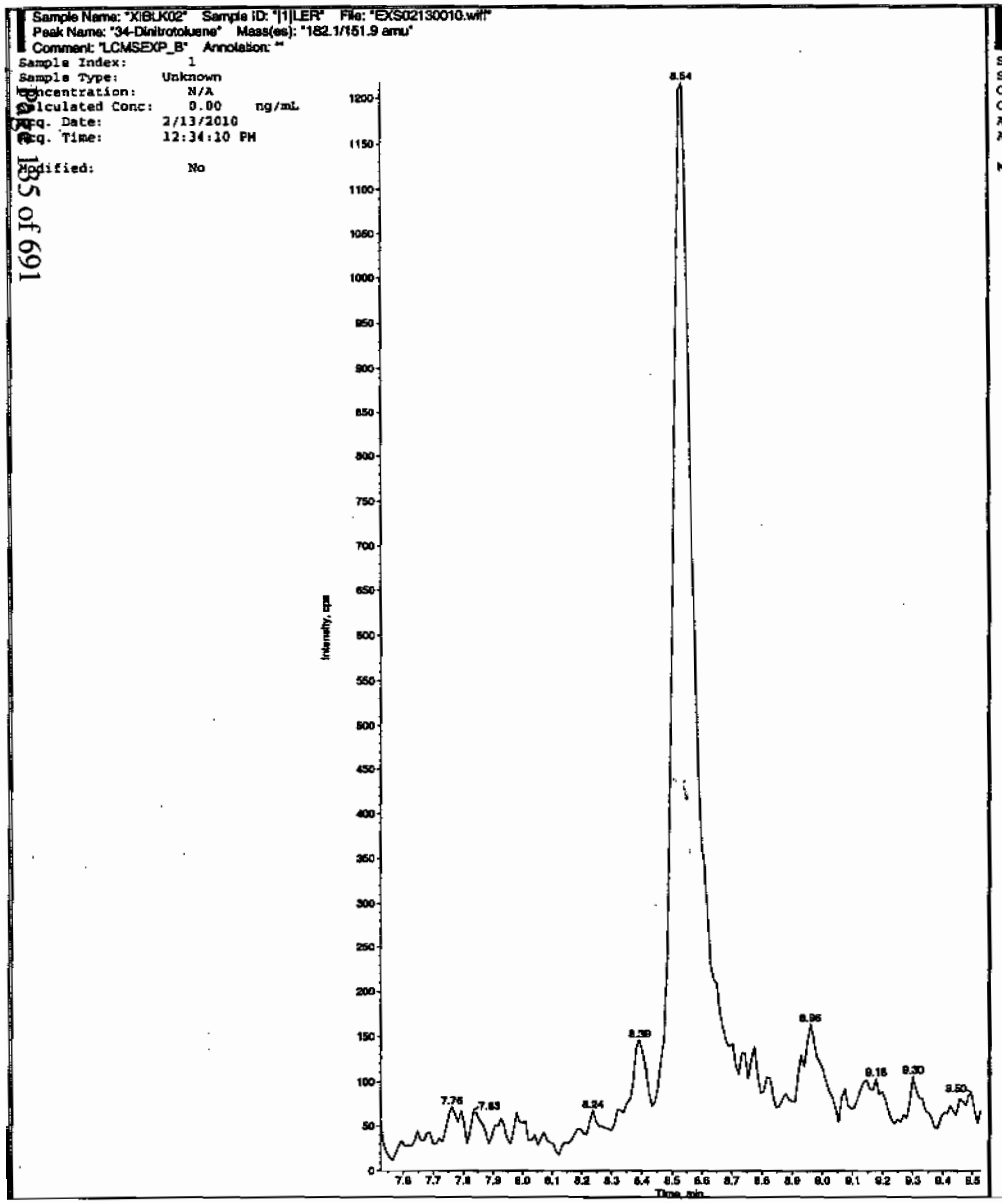
Modified: No

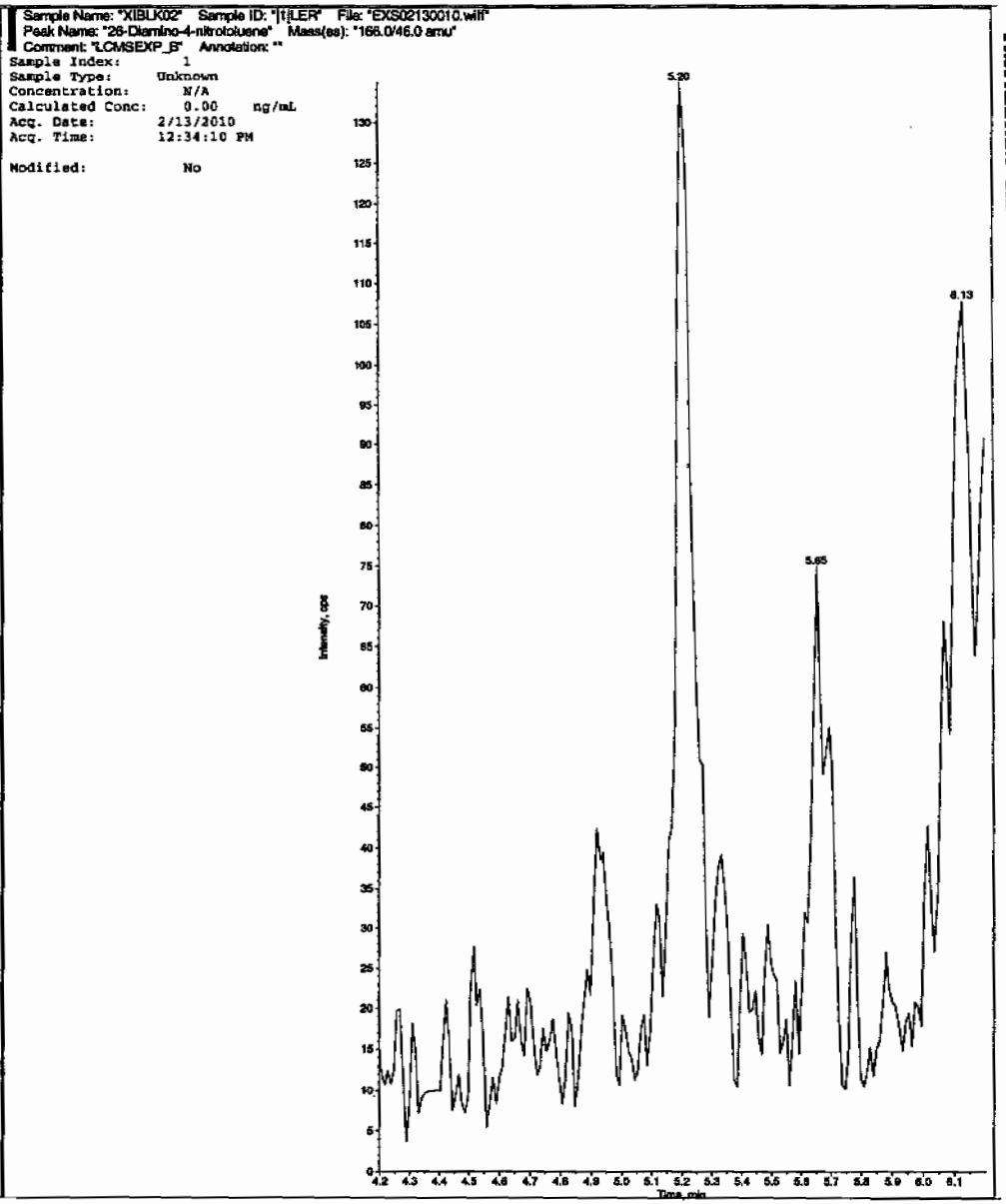


Hmm 02/15/10

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

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



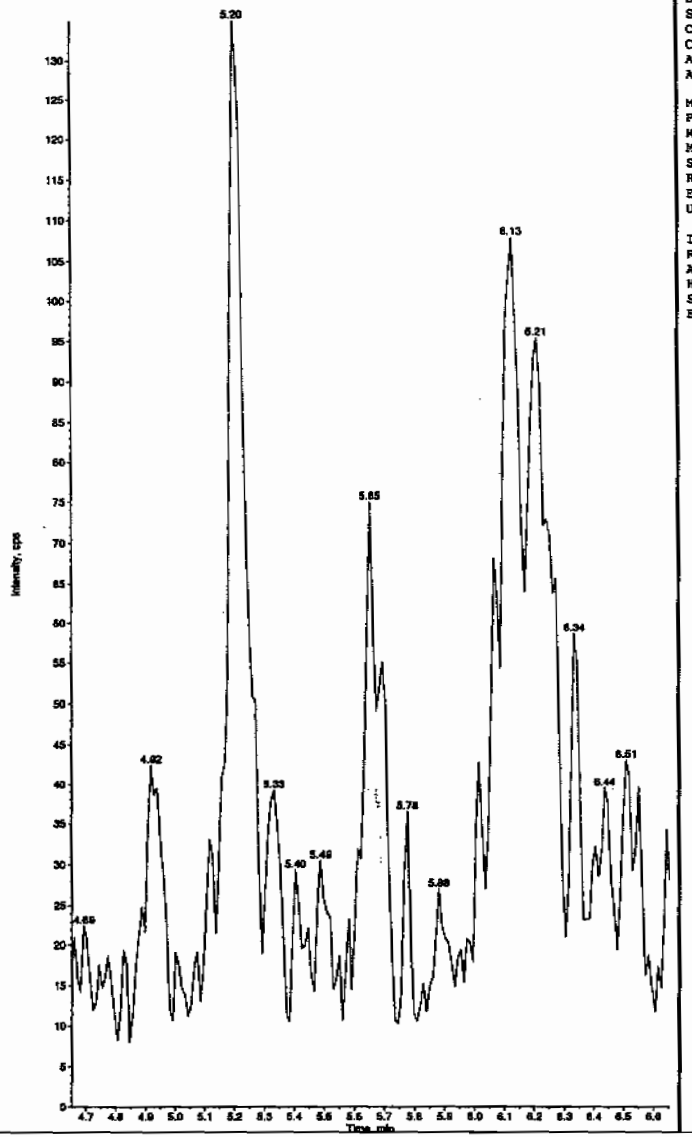


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

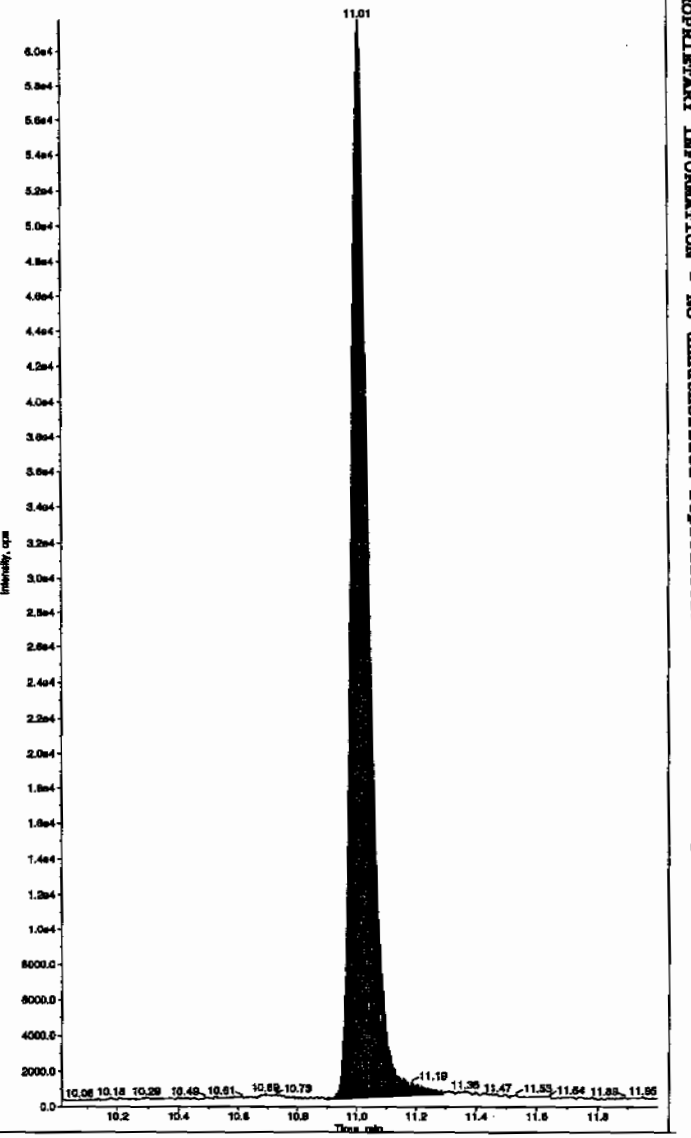
Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02130010.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	12:34:10 PM
Modified:	No



Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02130010.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	9.65 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	12:34:10 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	2.61e+005 counts
Height:	61272.419 cps
Start Time:	10.9 min
End Time:	11.3 min



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

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

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

4A
Explosives Continuing Calibration Blank

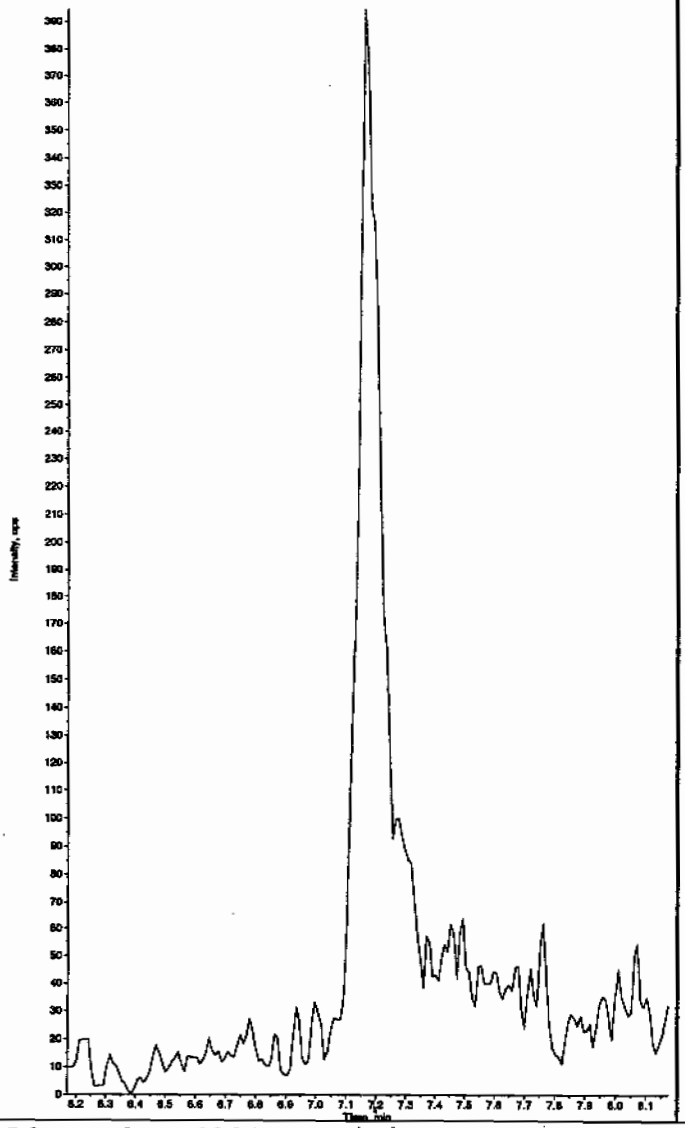
Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10–1432
Lab Code: GEL
Lab Sample ID: XIBLK03
Analysis Date: 13–FEB–10 13:05
GEL Data File: EXS02130012.wiff
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	3.76
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Lew 2/15/10

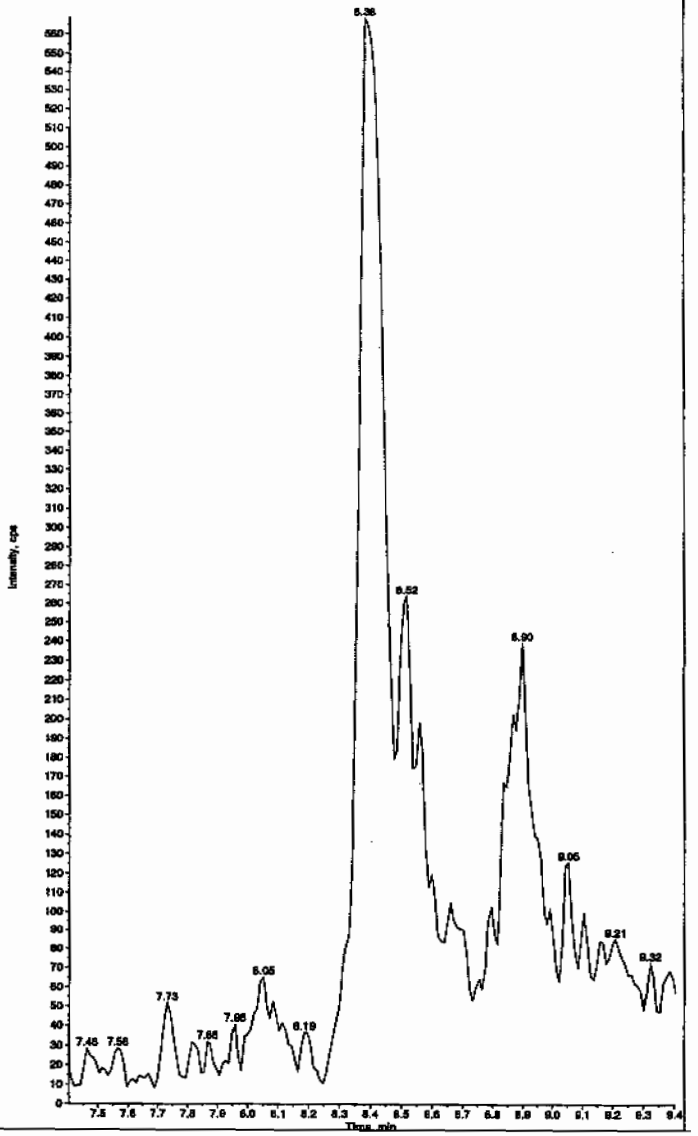
Sample Name: "XIBLK03" Sample ID: "|1|LER" File: "EXS02130012.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 1:05:35 PM

Modified: No



Sample Name: "XIBLK03" Sample ID: "|1|LER" File: "EXS02130012.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 1:05:35 PM

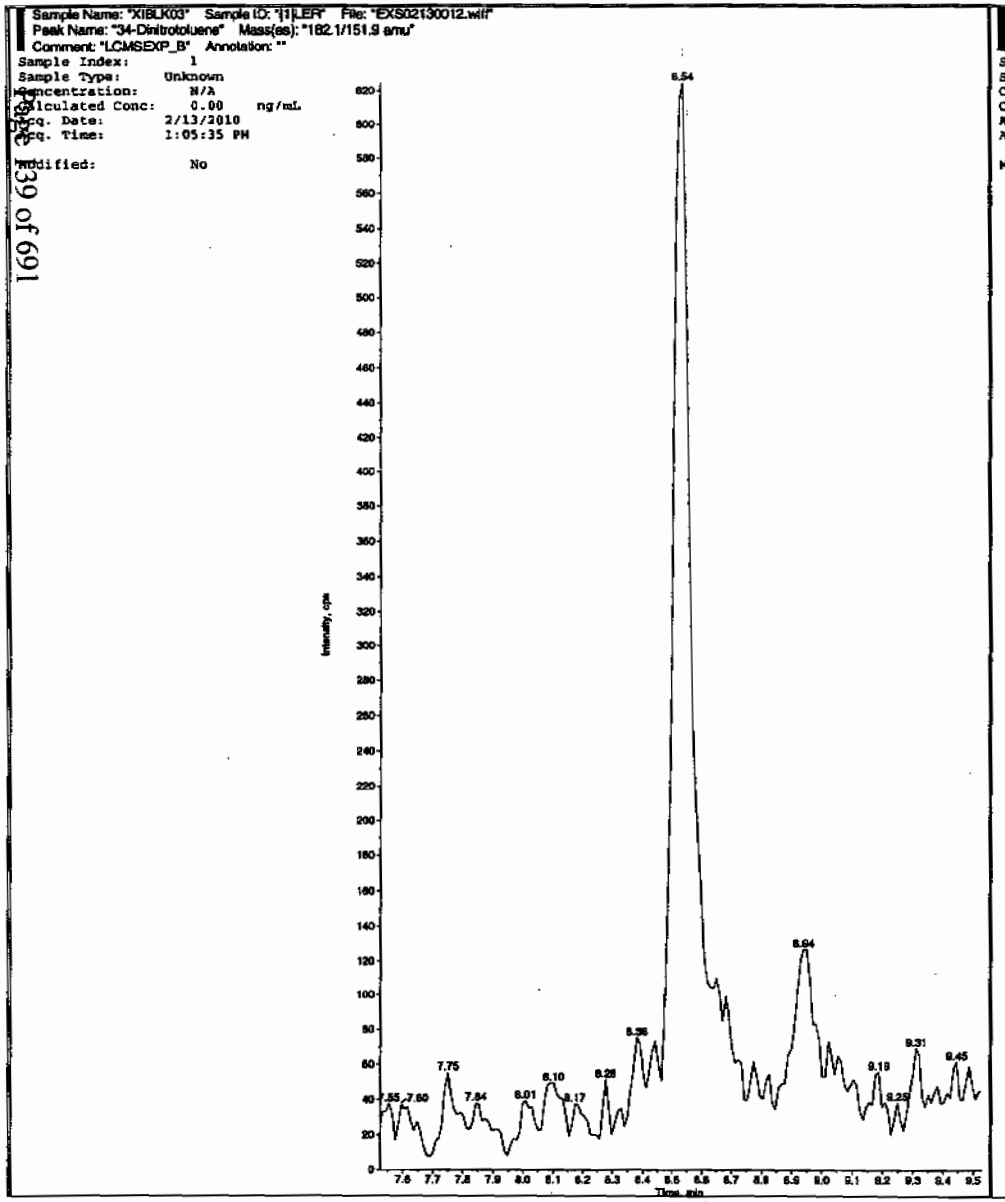
Modified: No

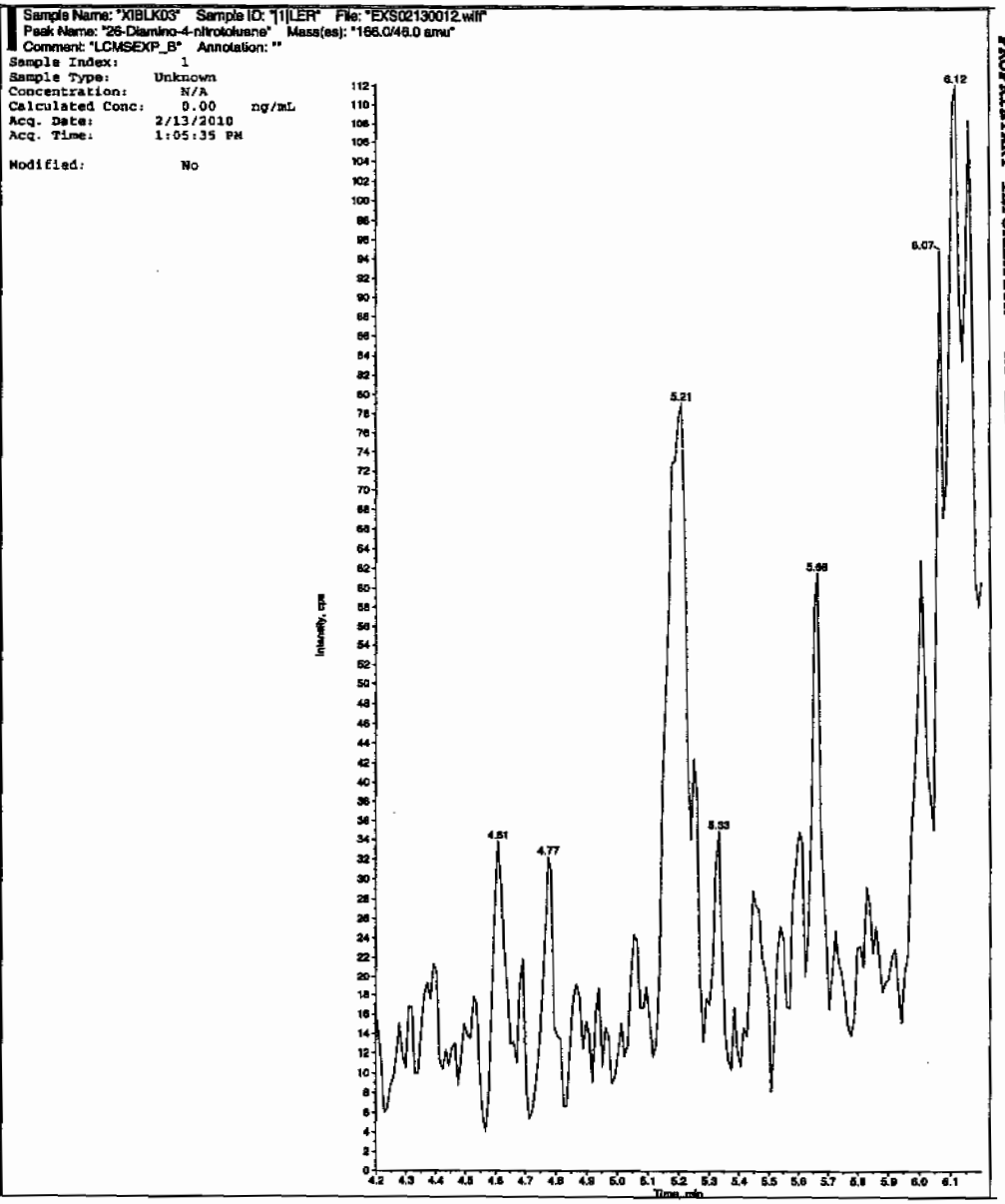


Hum 02/15/10

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

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



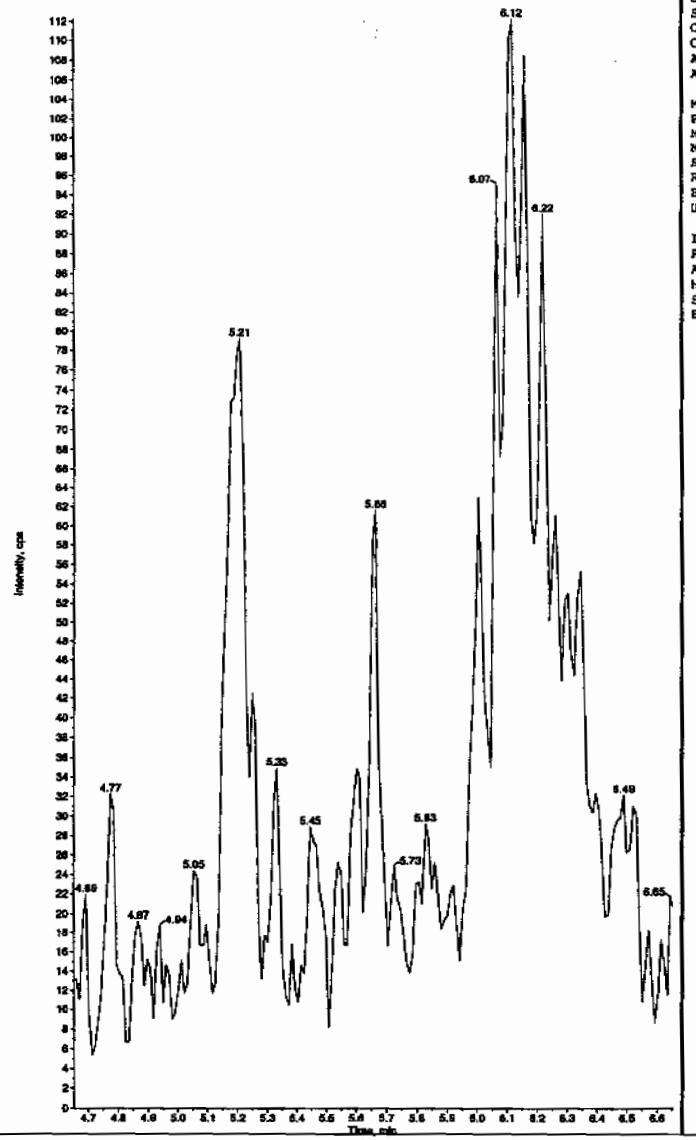


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

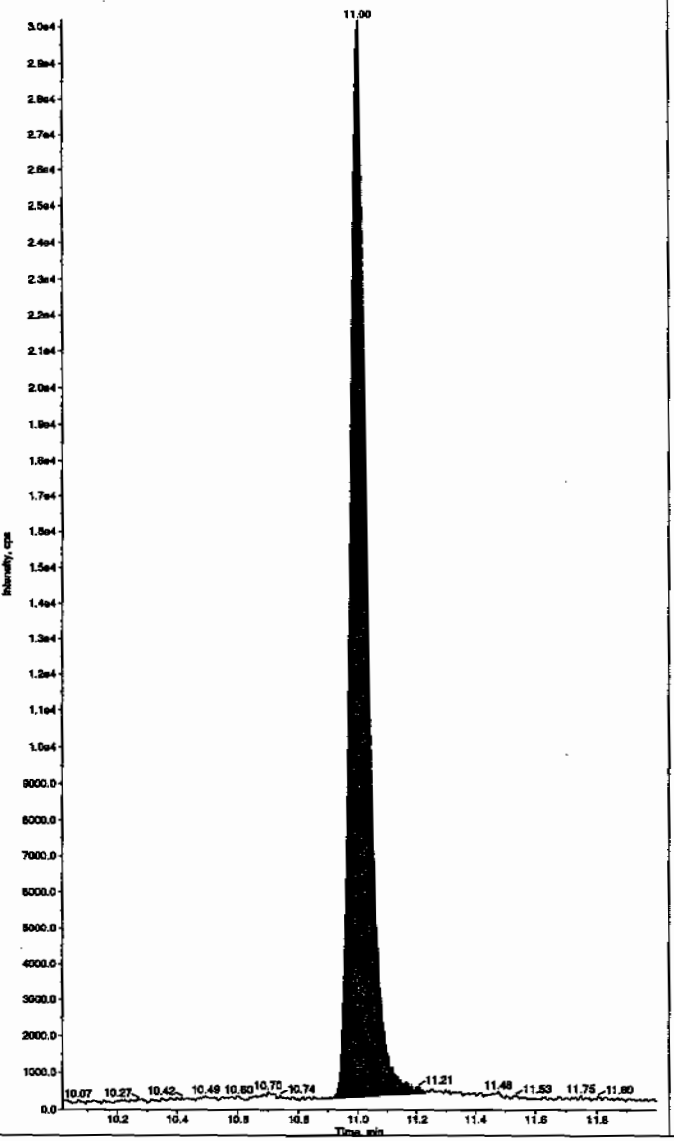
Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02130012.wiff"
Peak Name: "2,4-Diamino-5-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	1:05:35 PM	
Modified:	No	



Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02130012.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	3.76	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	1:05:35 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	1.00e4	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	11.0	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	11.0	min
Area:	1.24e+005	counts
Height:	29857.605	cps
Start Time:	10.9	min
End Time:	11.2	min



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

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

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

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1432
Lab Code: GEL
Lab Sample ID: XIBLK04
Analysis Date: 13-FEB-10 16:29
GEL Data File: EXS02130025.wiff
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

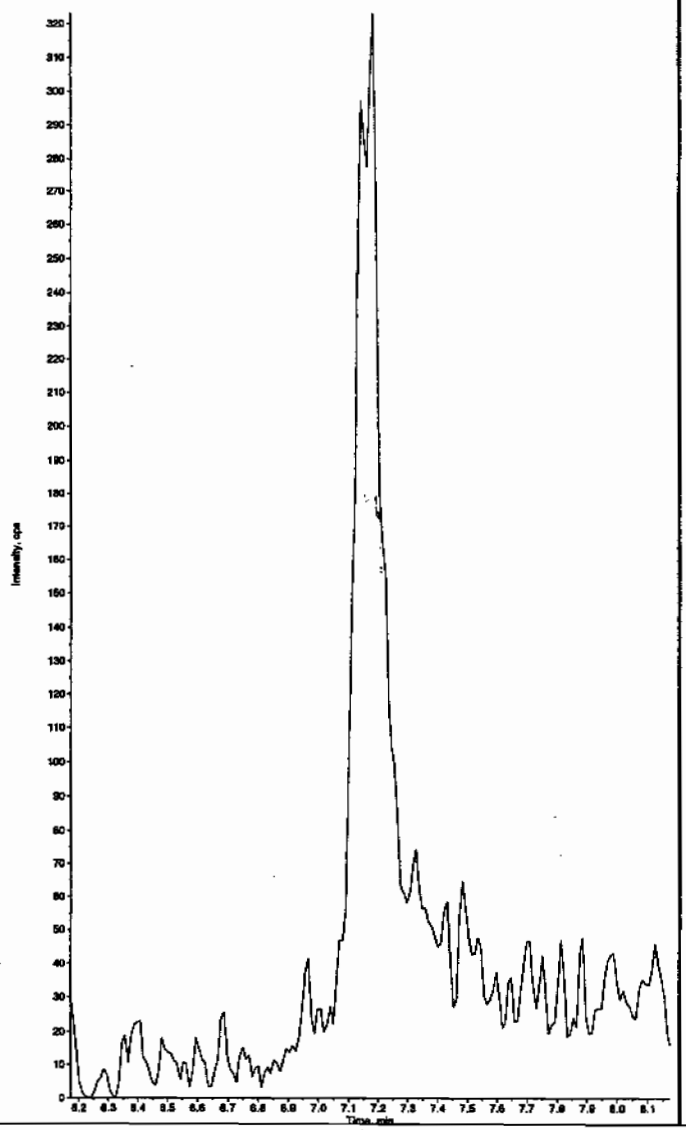
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	2.63
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6--Diamino-4-nitrotoluene	0	0

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

Lcm 2/15/10

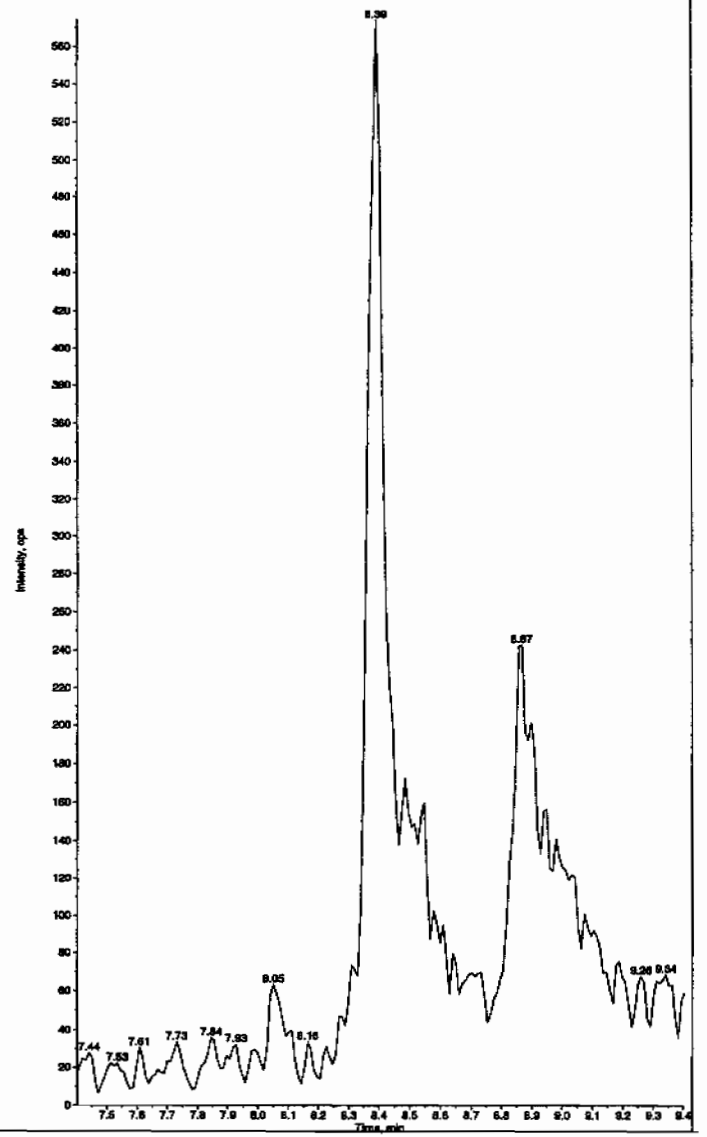
Sample Name: "XIBLK04" Sample ID: "|1|LER" File: "EXS02130025.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 4:29:43 PM

Modified: No



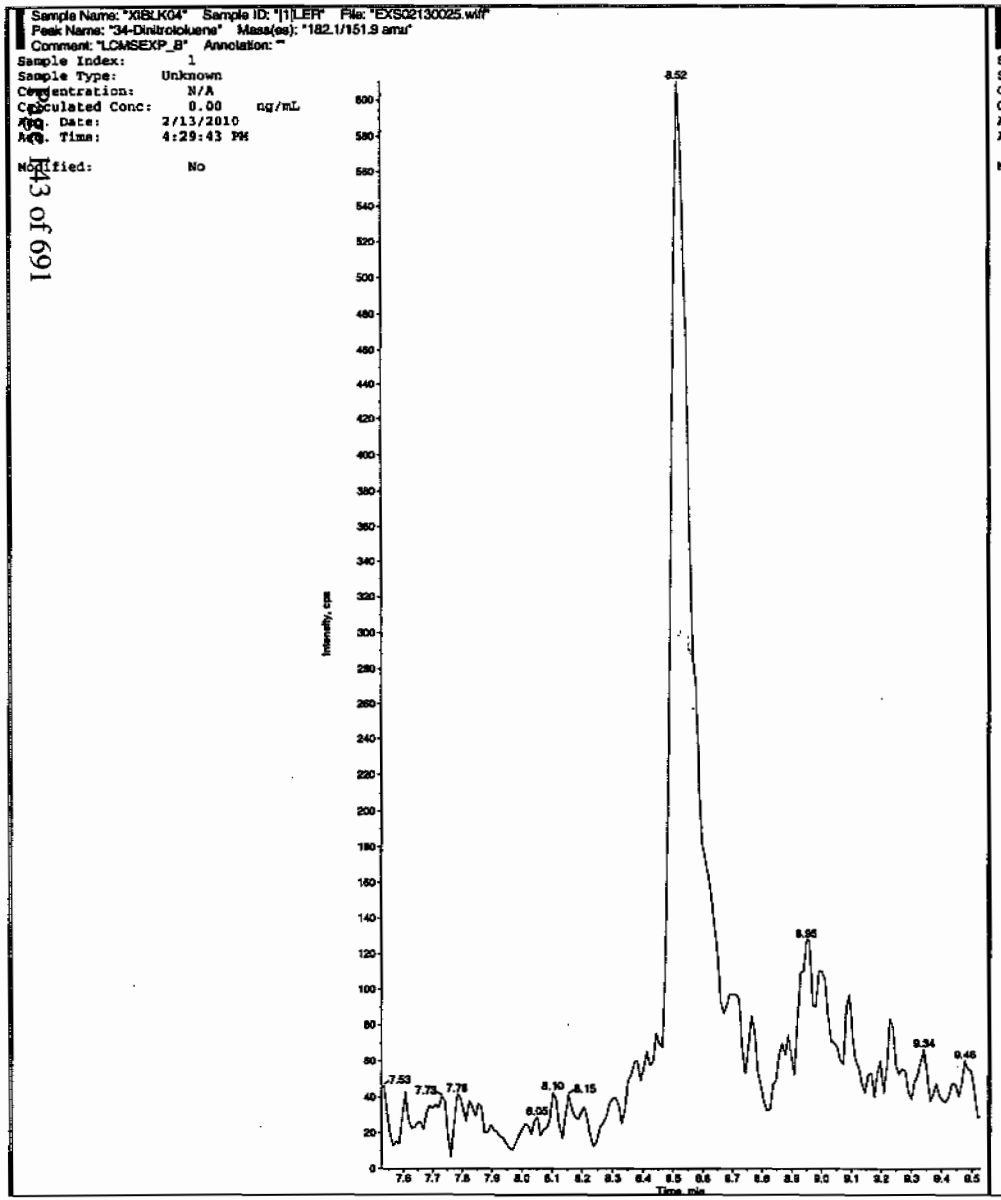
Sample Name: "XIBLK04" Sample ID: "|1|LER" File: "EXS02130025.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 4:29:43 PM

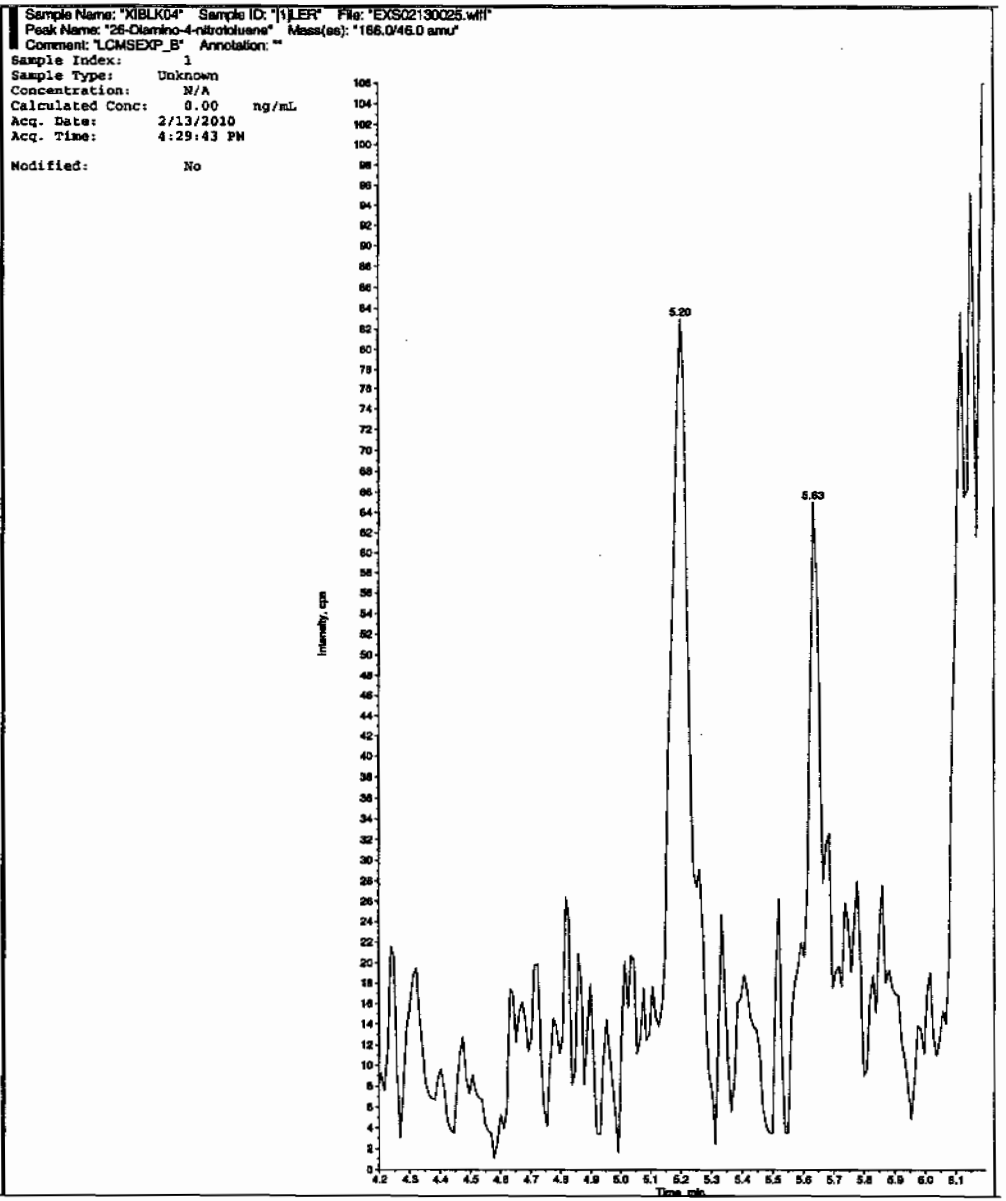
Modified: No



Hnm 02/15/10

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



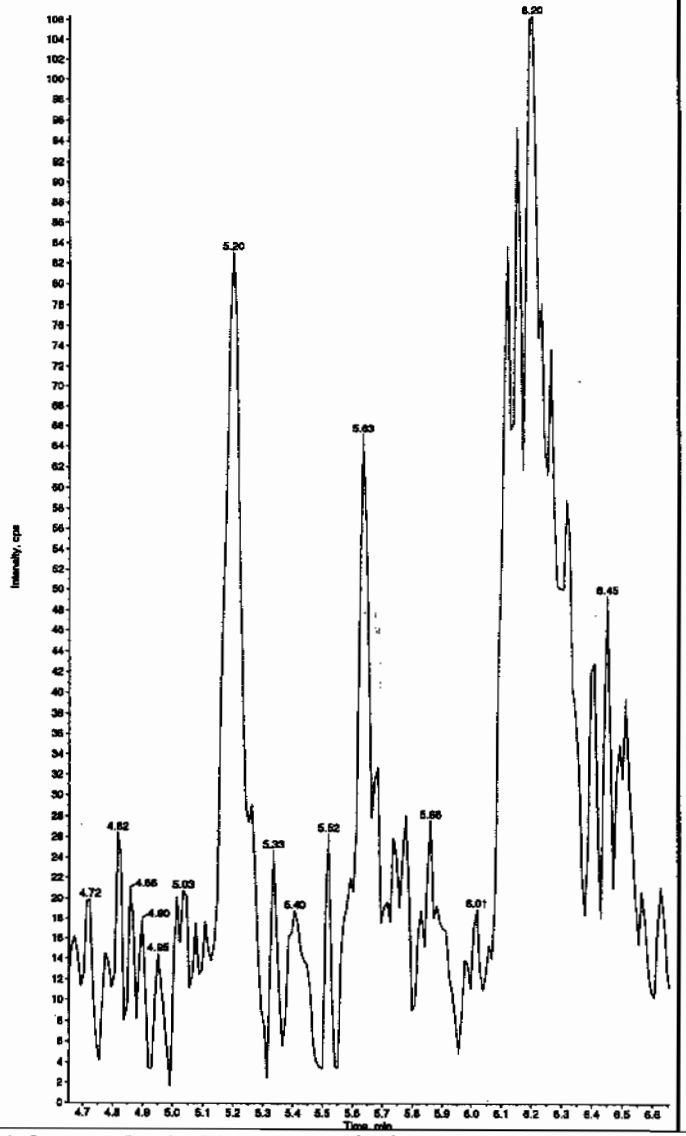


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

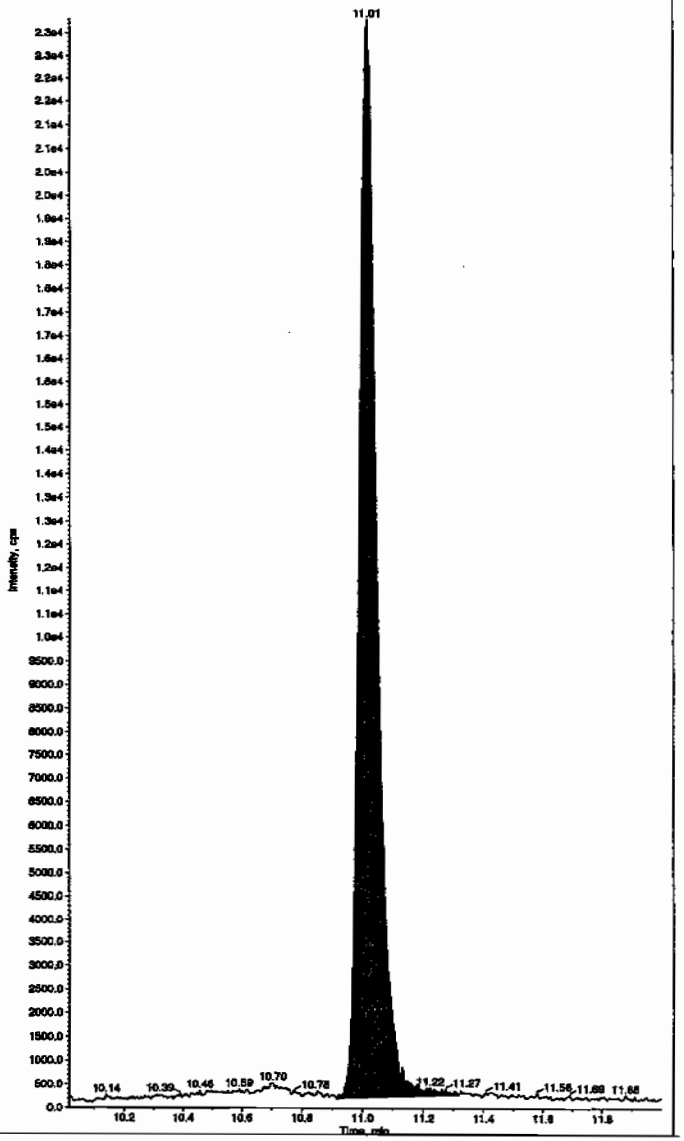
Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02130025.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_S" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:29:43 PM	
Modified:	No	



Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02130025.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	2.63	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:29:43 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	1.00e4	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	11.0	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	11.0	min
Area:	9.81e+004	counts
Height:	23090.134	cps
Start Time:	10.9	min
End Time:	11.3	min



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

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

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1432

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 13-FEB-10 19:38

GEL Data File: EXS02130037.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

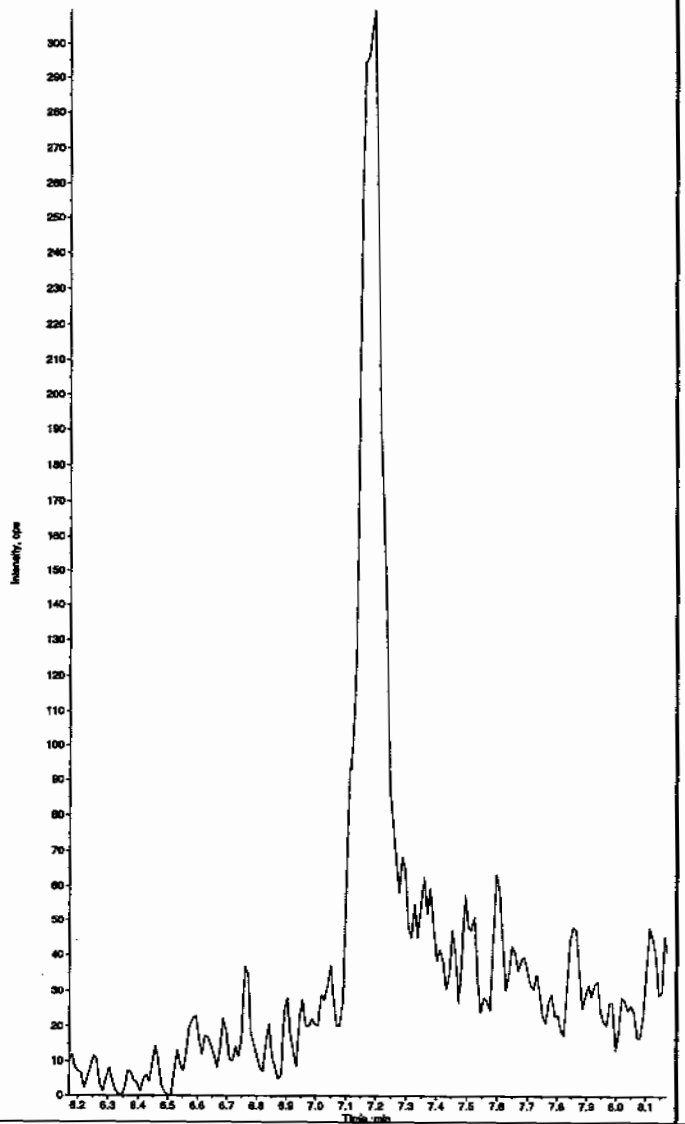
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	2.67
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Lcm 2/15/10

Sample Name: "XIBLK05" Sample ID: "|1|LER" File: "EXS02130037.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:38:01 PM

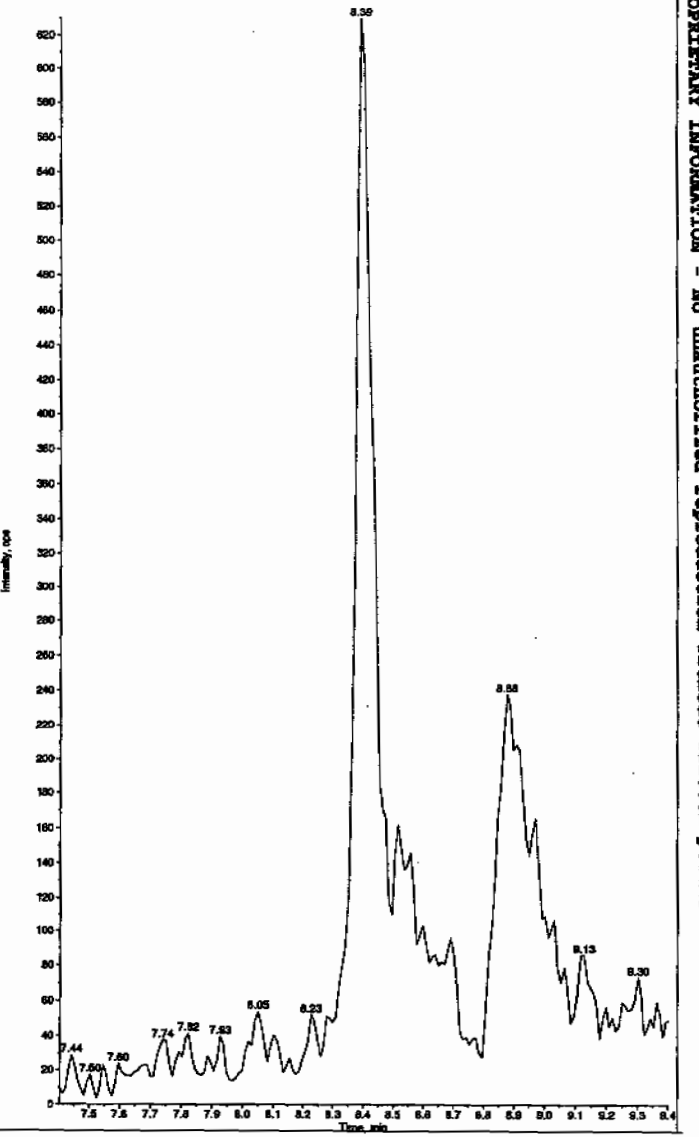
Modified: No



Sample Name: "XIBLK05" Sample ID: "|1|LER" File: "EXS02130037.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:38:01 PM

Modified: No

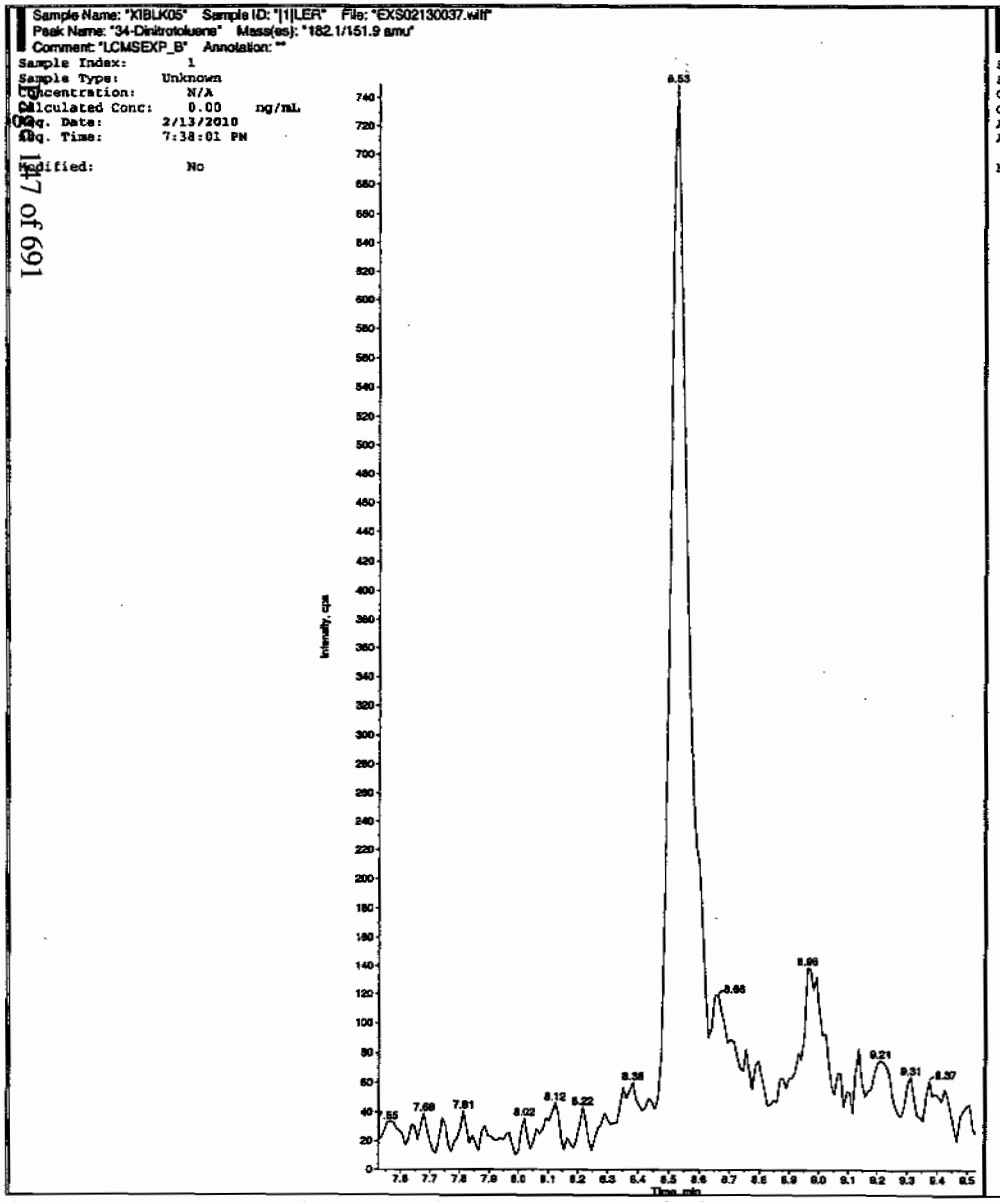


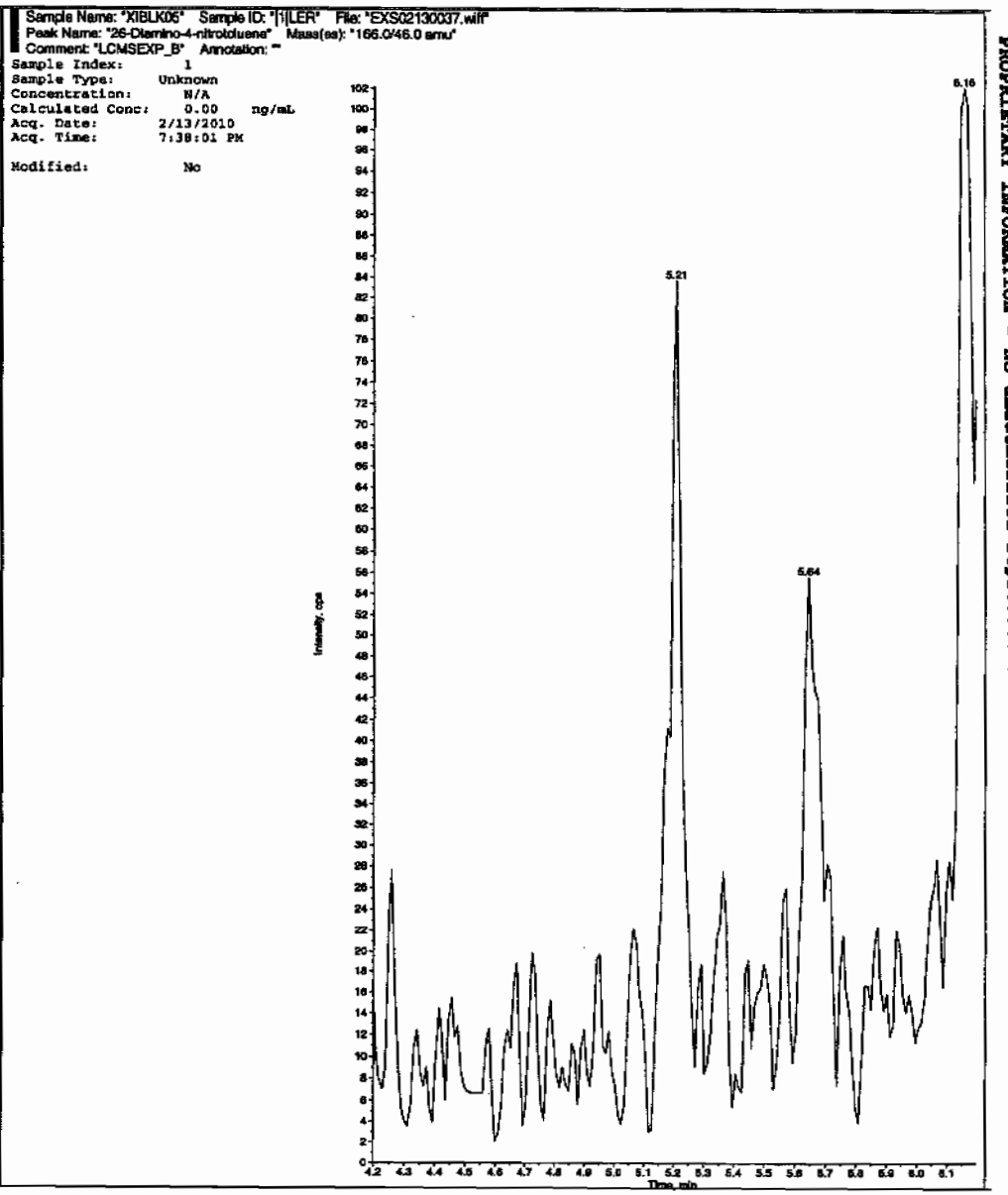
Hmm 02/15/10

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

Page 46 of 691

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



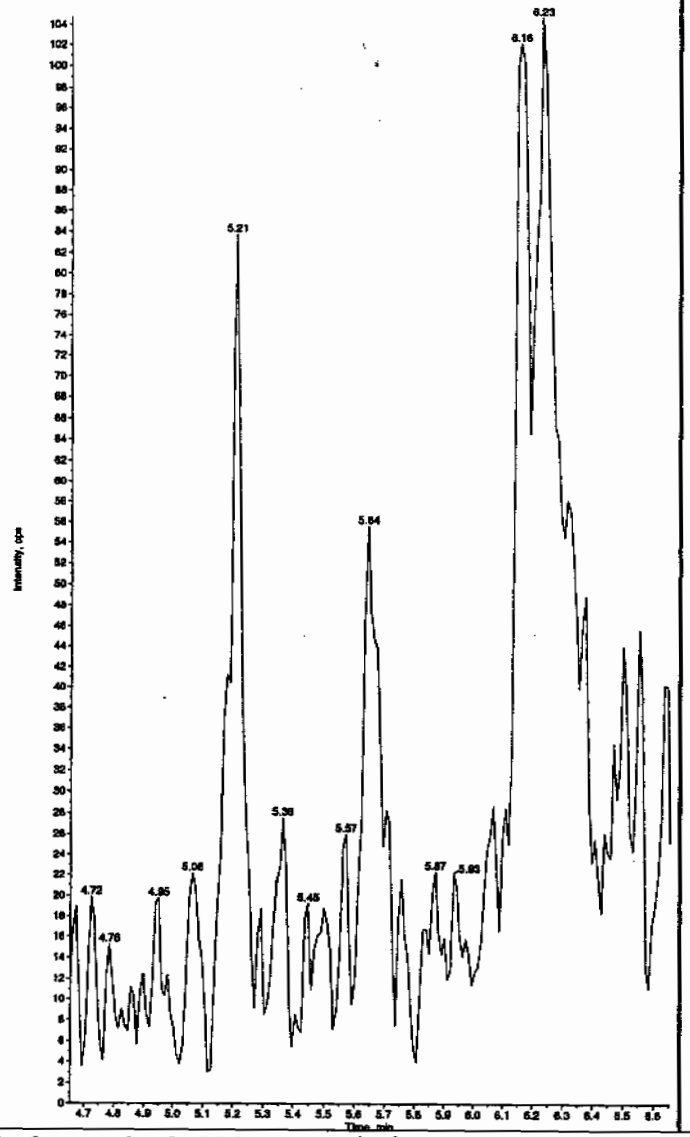


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

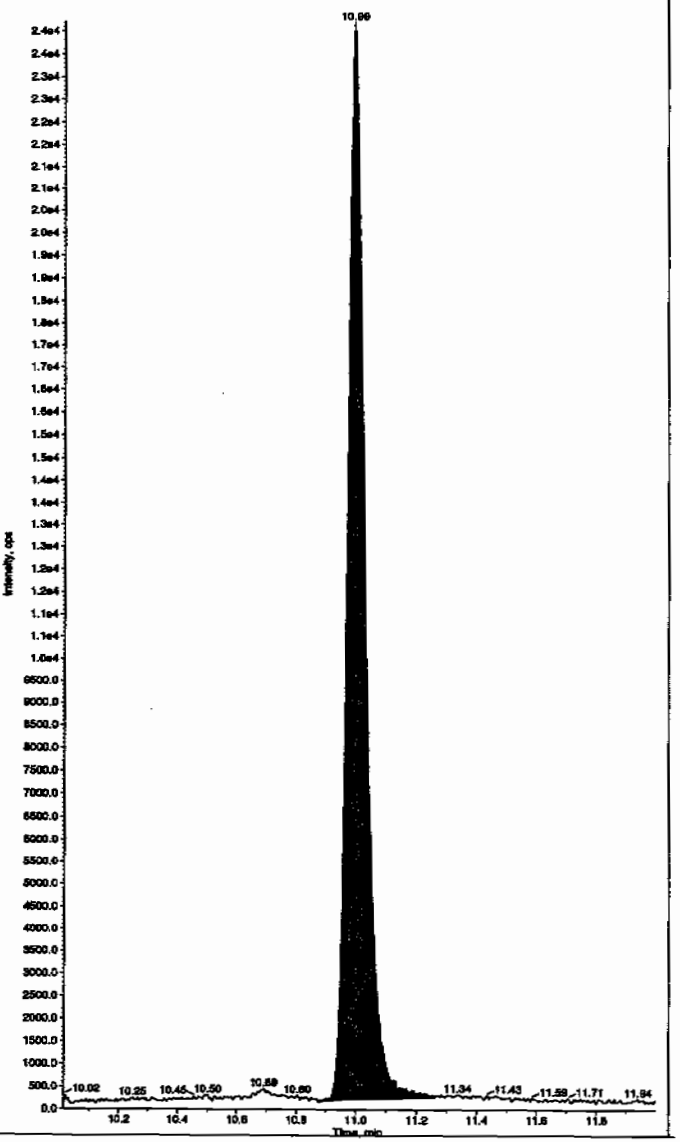
Sample Name: "XIBLK05" Sample ID: "1|LER" File: "EXS02130037.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:38:01 PM
Modified:	No



Sample Name: "XIBLK05" Sample ID: "1|LER" File: "EXS02130037.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	2.67 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:38:01 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	9.91e+004 counts
Height:	24030.212 cps
Start Time:	10.9 min
End Time:	11.3 min



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

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

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

Nairb.ref

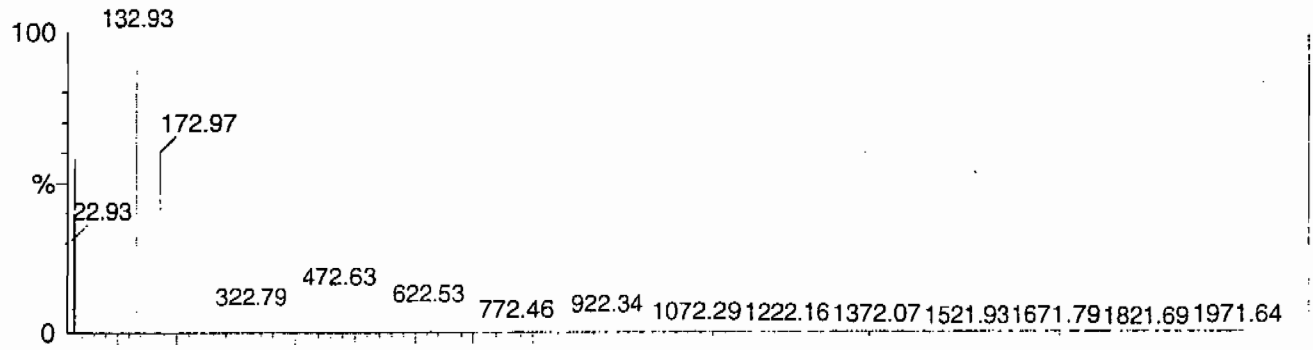
;Positive ion monoisotopic and average masses from solution
;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H2O.
;Most useful general purpose calibrant for all low
;MW applications, including MS/MS work.
;At high resolution, readily covers from m/z 50-2000.
;At reduced resolution, can be used to over 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

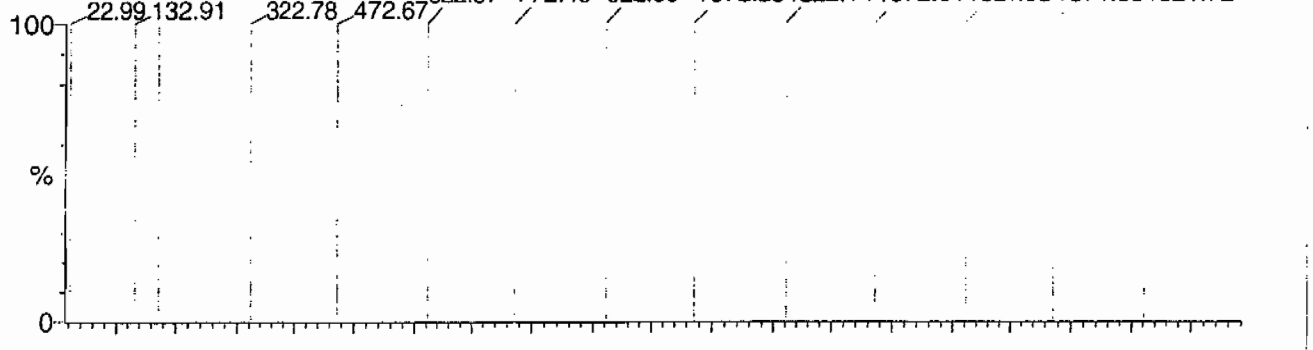
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Printed: Fri Aug 25 10:50:01 2006

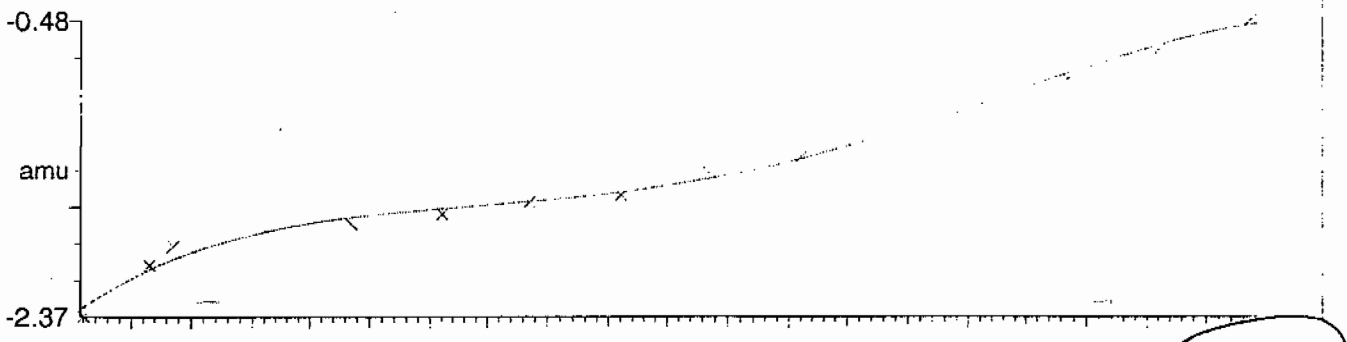
Data file: STATMS1 - Calibrated 15 matches of 15 tested references



Reference file: Naics2

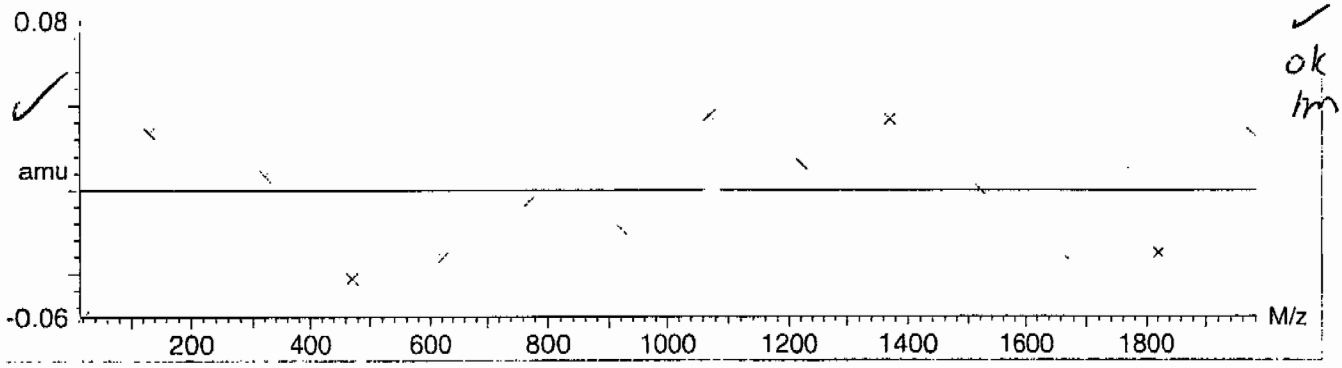


Mass difference (Raw - Ref mass)



Residuals Mean residual = -1.673470e-9 ± 0.036953

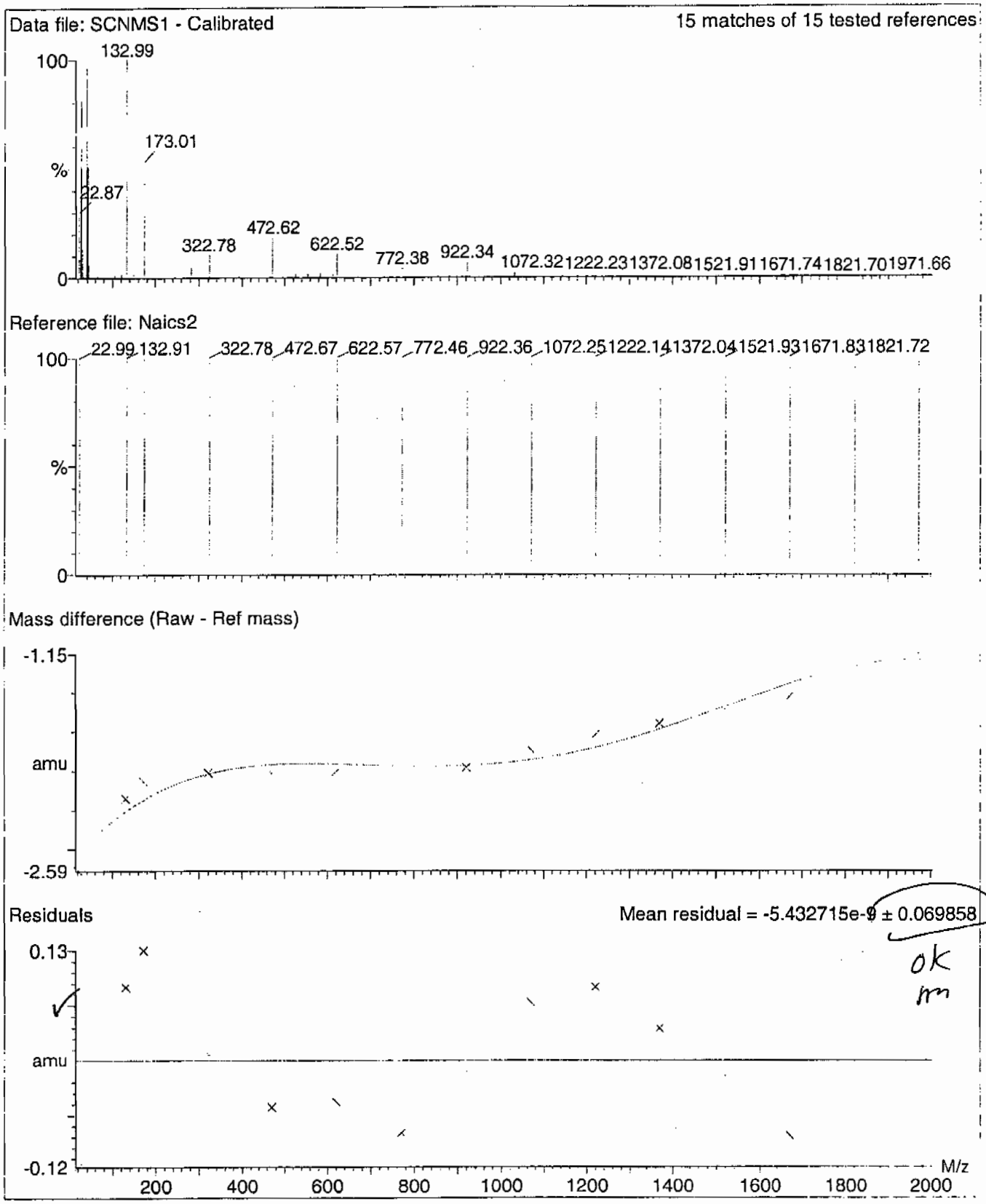
ok
lm



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

Calibration Report - MS1 Scanning

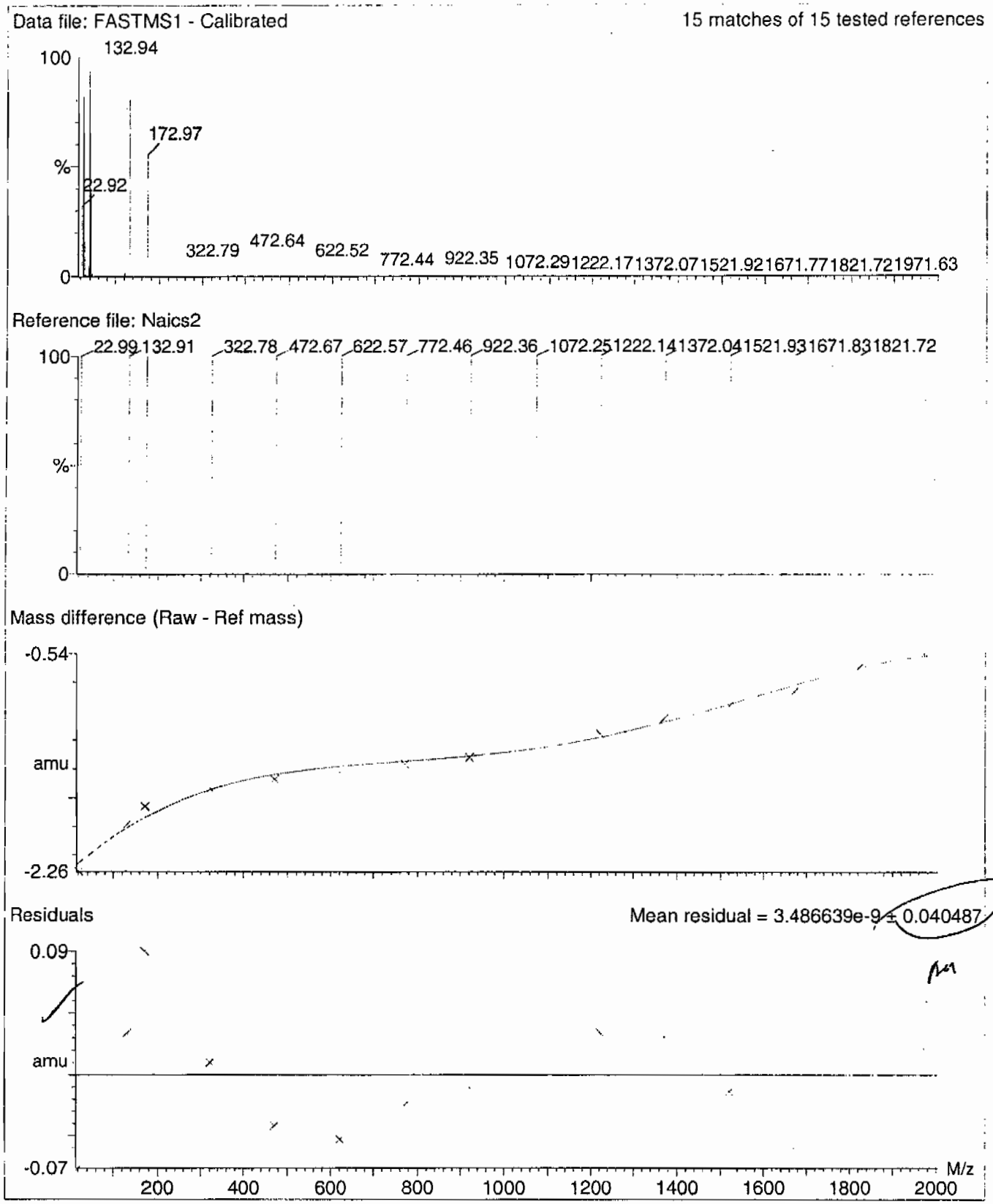
Printed: Fri Aug 25 10:51:06 2006



ok
m

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

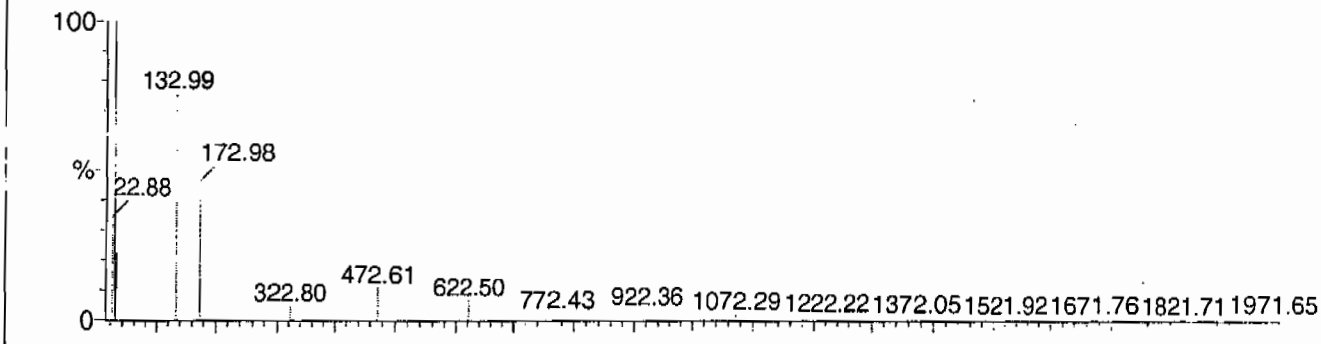
Printed: Fri Aug 25 10:52:01 2006



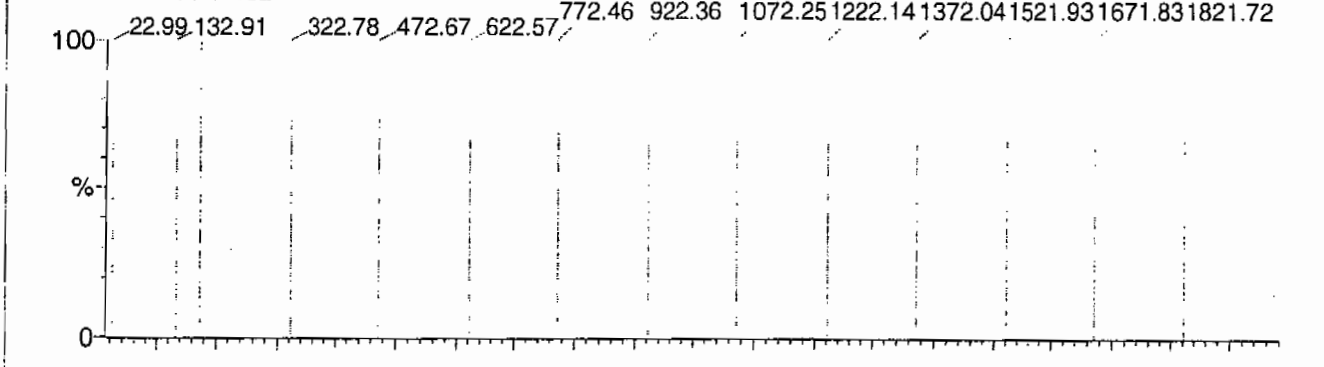
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Printed: Fri Aug 25 10:52:54 2006

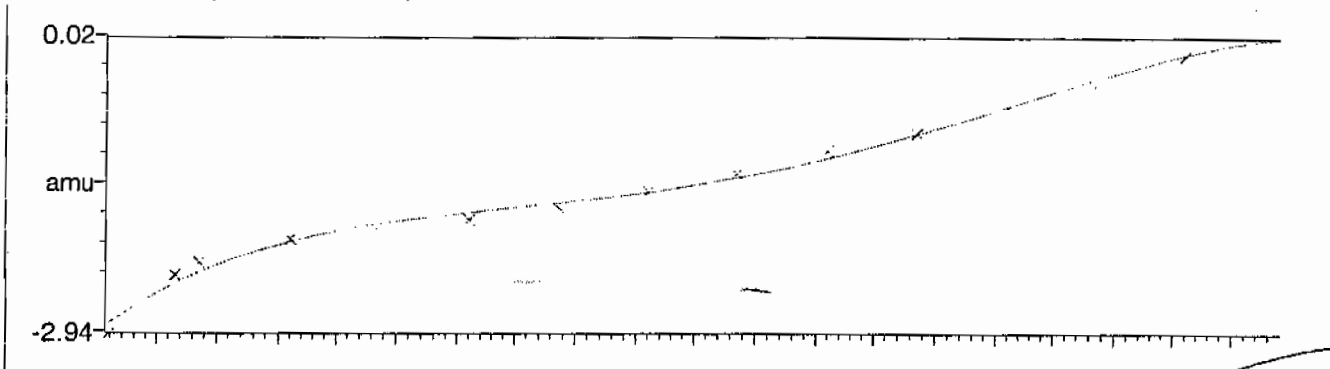
Data file: STATMS2 - Calibrated 15 matches of 15 tested references



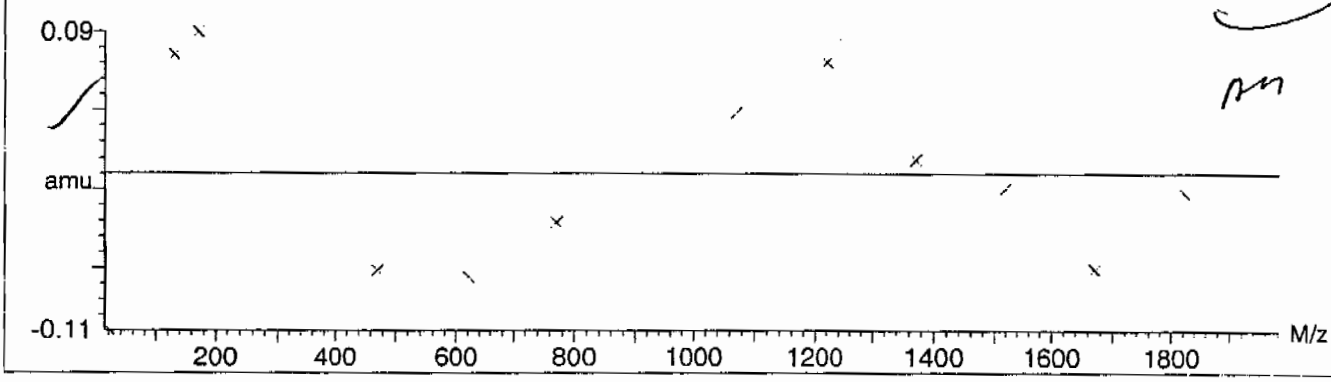
Reference file: Naics2



Mass difference (Raw - Ref mass)



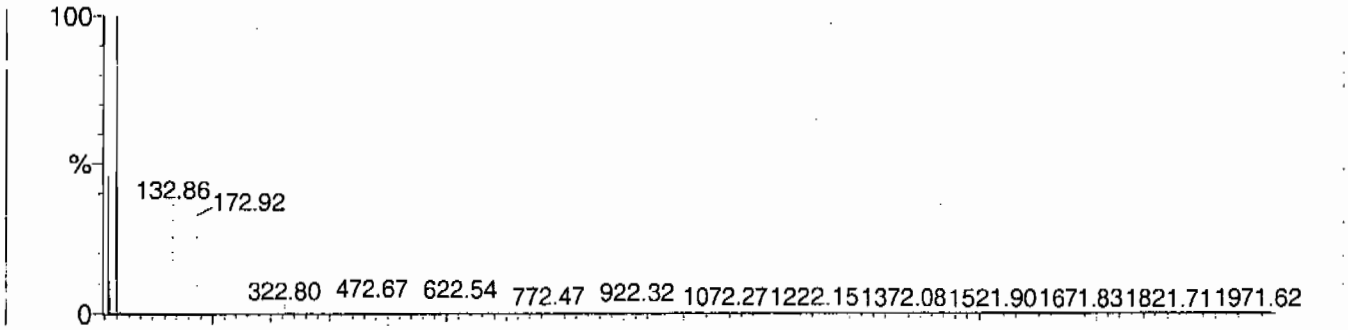
Residuals Mean residual = 2.048910e-9 ± 0.057803



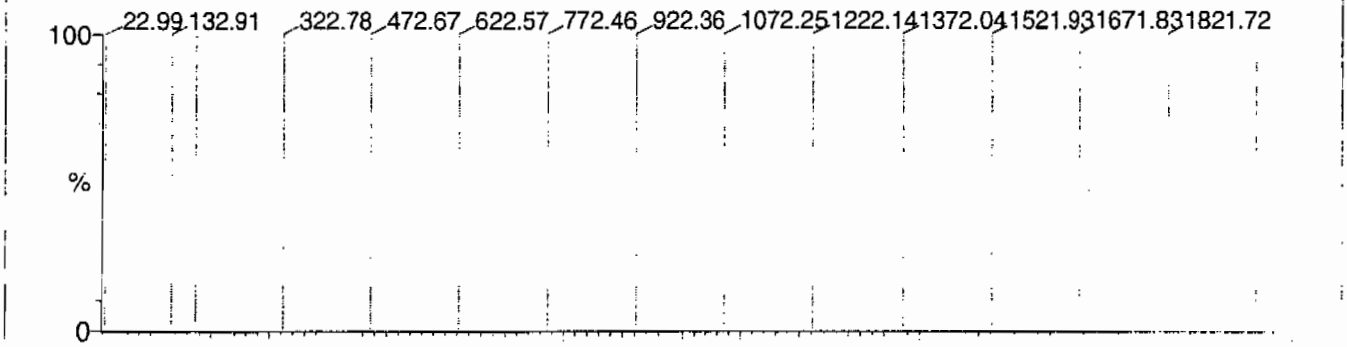
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Printed: Fri Aug 25 10:54:00 2006

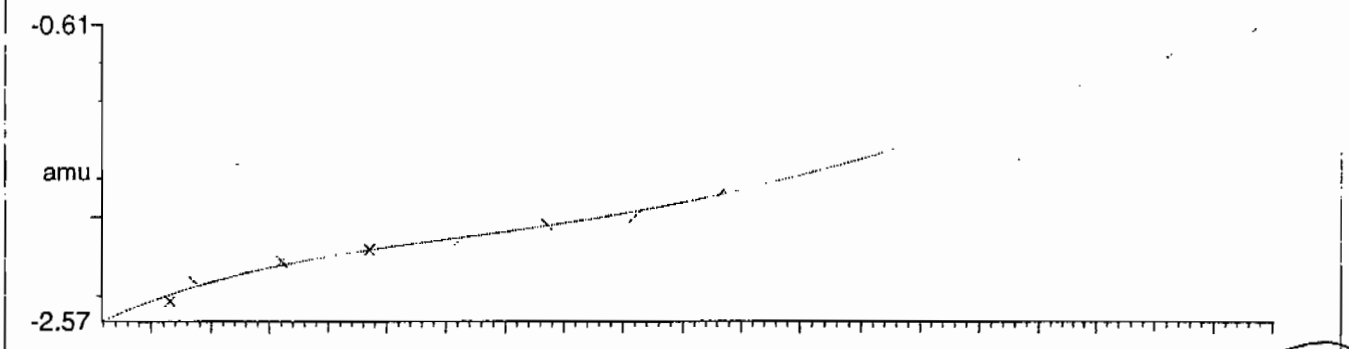
Data file: SCNMS2 - Calibrated 14 matches of 15 tested references



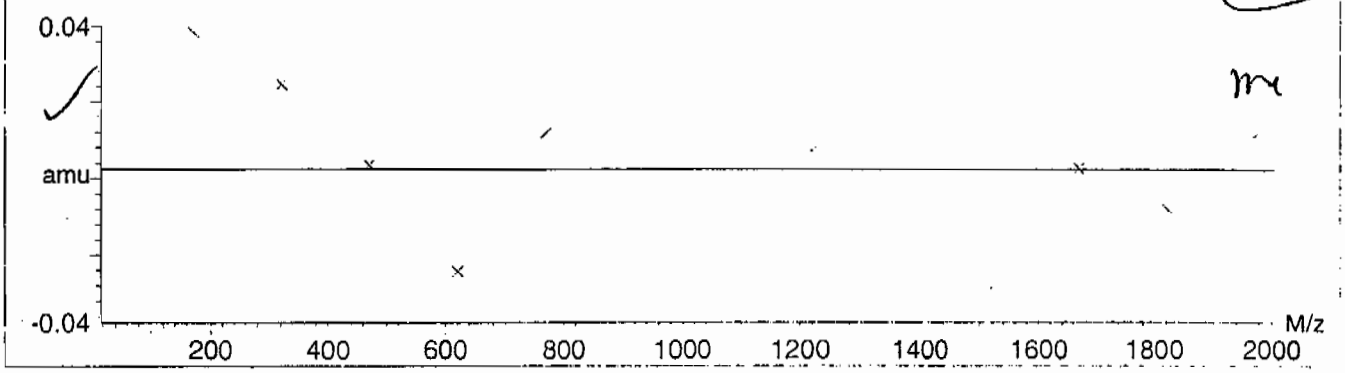
Reference file: Naics2



Mass difference (Raw - Ref mass)



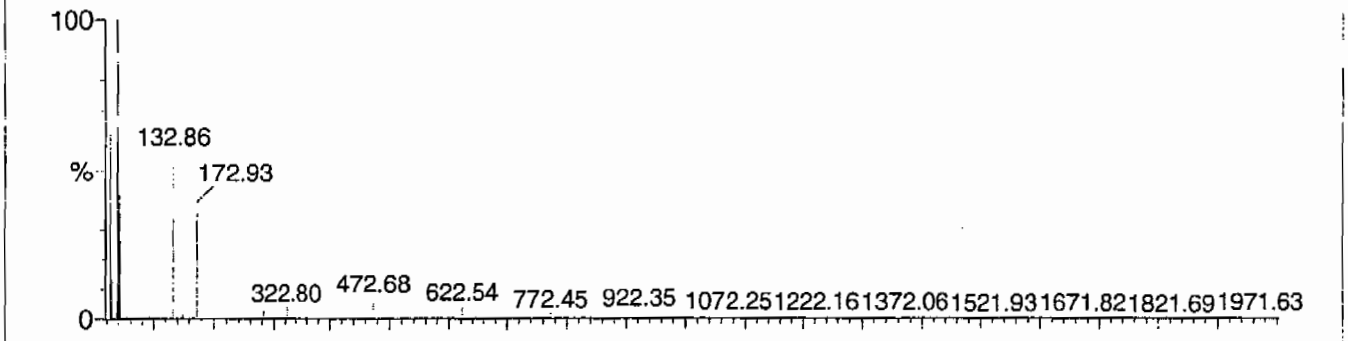
Residuals Mean residual = -2.623502e-9 ± 0.025622



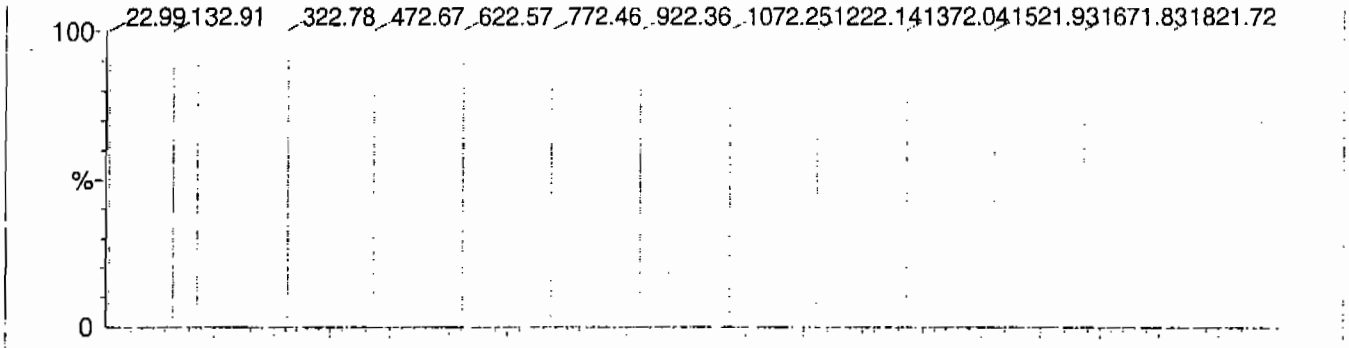
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Printed: Fri Aug 25 10:54:54 2006

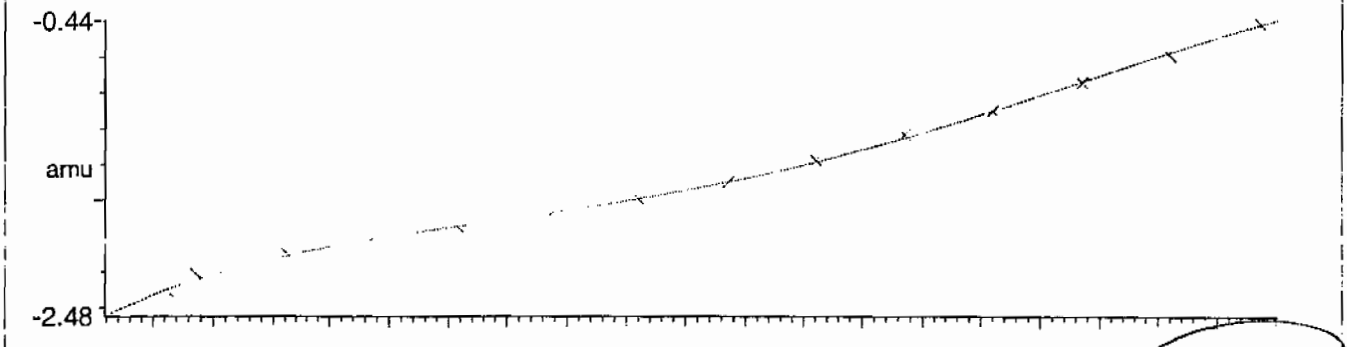
Data file: FASTMS2 - Calibrated 14 matches of 15 tested references



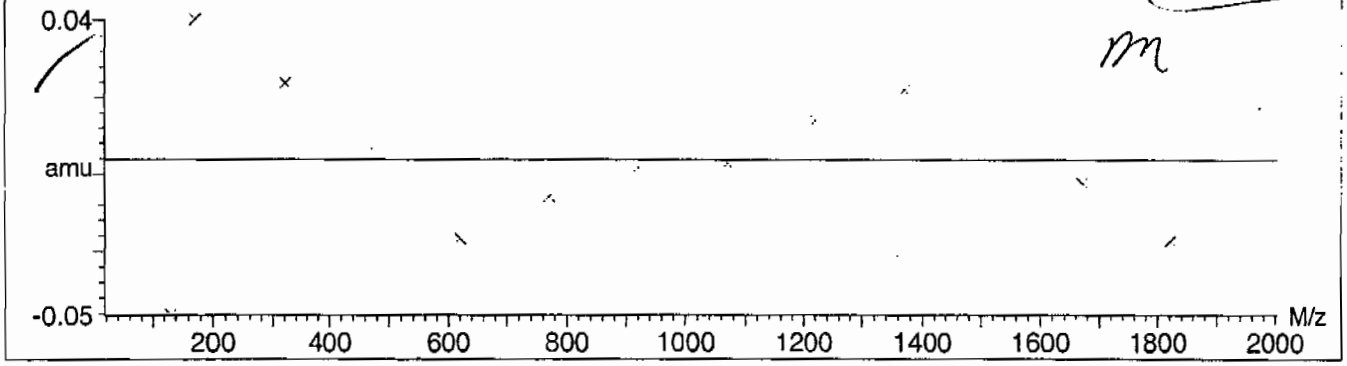
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals Mean residual = -6.785350e-9 ± 0.023134

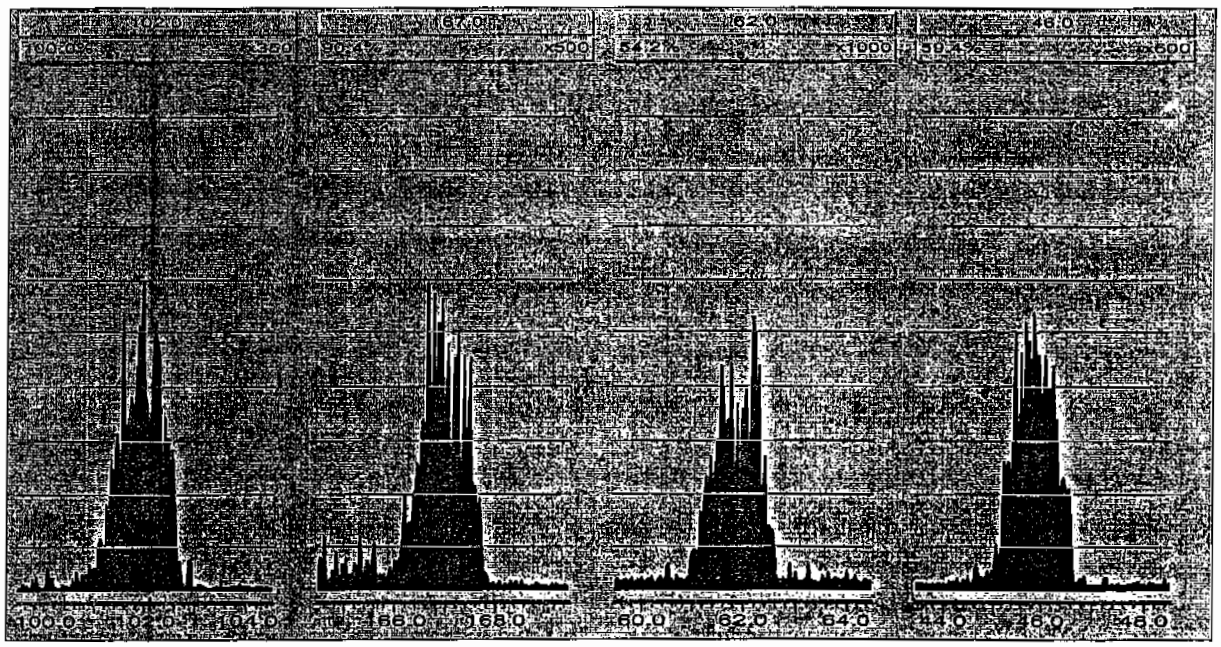


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Quattro Micro Tune Parameters

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

Printed : Mon Feb 08 14:05:58 2010



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

8

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

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) #
			3214.577	12.205	18459.667	17.697
Upper Limit			4178.9501	12.705	23997.5671	18.197
Lower Limit			2250.2039	11.705	12921.7669	17.197
MB for batch 947076	12-feb-10 07:46	EXP0208182a	2731.76	12.068	17376.6	17.462
LCS for batch 947076	12-feb-10 08:15	EXP0208183a	2945.59	12.069	16481.7	17.463
RE15-10-7883	12-feb-10 09:14	EXP0208185a	2917.17	12.068	16461.3	17.466
RE15-10-7883(245686001MS)	12-feb-10 09:44	EXP0208186a	3045.19	12.068	17171.1	17.466
RE15-10-7883(245686001MSD)	12-feb-10 10:13	EXP0208187a	2646.46	12.102	17593.5	17.466
RE15-10-7884	12-feb-10 10:43	EXP0208188a	2743.54	12.071	15761.6	17.463
RE15-10-7932	12-feb-10 11:13	EXP0208189a	3094.48	12.102	18009.8	17.465
RE15-10-7931	12-feb-10 11:42	EXP0208190a	3140.77	12.07	18084.1	17.464
RE15-10-7938	12-feb-10 12:12	EXP0208191a	2779.32	12.102	17403.5	17.465
RE15-10-7933	12-feb-10 14:10	EXP0208195a	2714.27	12.072	15636.6	17.465
RE15-10-7939	12-feb-10 14:40	EXP0208196a	2567.92	12.065	17395.1	17.476
RE15-10-7936	12-feb-10 15:09	EXP0208197a	2577.59	12.102	14931.8	17.465
RE15-10-7935	12-feb-10 15:38	EXP0208198a	2683.22	12.072	16712.6	17.465
RE15-10-7934	12-feb-10 16:08	EXP0208199a	2773.36	12.067	18369	17.465
RE15-10-7940	12-feb-10 16:38	EXP0208200a	2749.13	12.067	15534.3	17.464
RE15-10-7937	12-feb-10 17:07	EXP0208201a	2664.56	12.067	14384.5	17.464
RE15-10-8056	12-feb-10 17:36	EXP0208202a	2664.82	12.072	15262.9	17.467
RE15-10-8057	12-feb-10 18:06	EXP0208203a	2723.03	12.067	15060.3	17.466

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

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

SAMPLE DATA

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686001

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208185a

Date Analyzed: 12-FEB-10 09:14

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

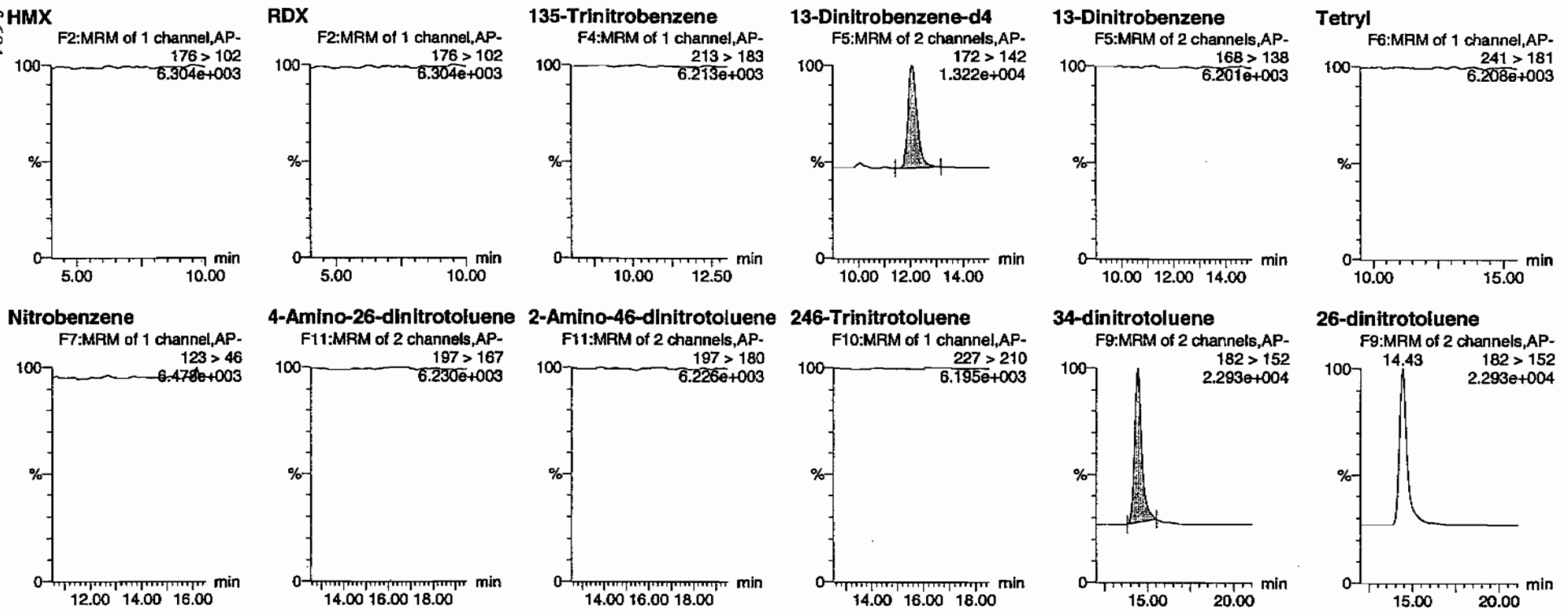
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208185a
Date: 12-Feb-2010
Time: 09:14:47
ID: 245686001 | LANL | 947078 | SOLID | 2 |
Vial: 4:4,D

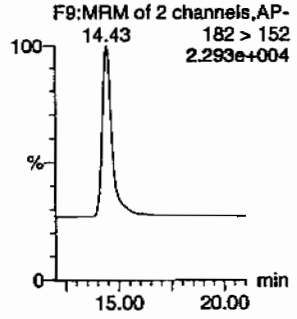
MAP 2/13/10



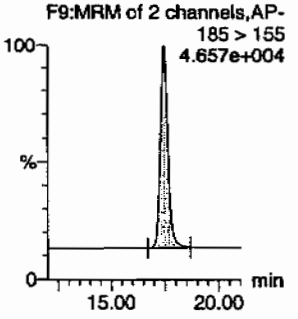
Hmm 02/13/10

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

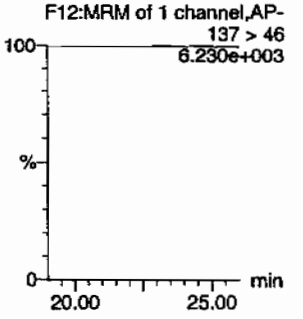
24-dinitrotoluene



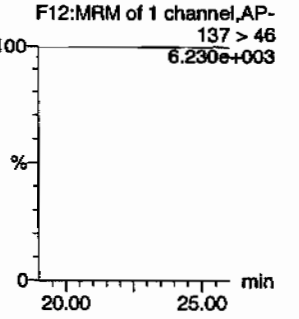
26-dinitrotoluene-d3



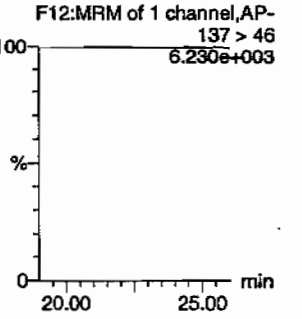
2-Nitrotoluene



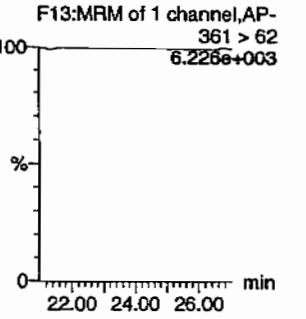
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686001	HMX	176 > 102			2917.166									
245686001	RDX	176 > 102			2917.166									
245686001	135-Trinitrobenzene	213 > 183			2917.166									
245686001	13-Dinitrobenzene-d4	172 > 142	12.07	2917.166		2917.166	2917.166	bb			453.7407	90.7	-9.3	350.0
245686001	13-Dinitrobenzene	168 > 138			2917.166									
245686001	Tetryl	241 > 181			2917.166									
245686001	Nitrobenzene	123 > 46			2917.166									
245686001	4-Amino-26-dinitrotoluene	197 > 167			16461.314									
245686001	2-Amino-46-dinitrotoluene	197 > 180			16461.314									
245686001	246-Trinitrotoluene	227 > 210			16461.314									
245686001	34-dinitrotoluene	182 > 152	14.43	8087.404	16461.314	8087.404	245.649	bb			272.9455	109.2	9.2	588.7
245686001	26-dinitrotoluene	182 > 152			16461.314									
245686001	24-dinitrotoluene	182 > 152			16461.314									
245686001	26-dinitrotoluene-d3	185 > 155	17.47	16461.314		16461.314	16461.314	bb			445.8721	89.2	-10.8	1245.5
245686001	2-Nitrotoluene	137 > 46			16461.314									
245686001	4-Nitrotoluene	137 > 46			16461.314									
245686001	3-Nitrotoluene	137 > 46			16461.314									
245686001	PETN	361 > 62			16461.314									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686001

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130017.wiff

Date Analyzed: 13-FEB-10 14:24

Units: ug/kg

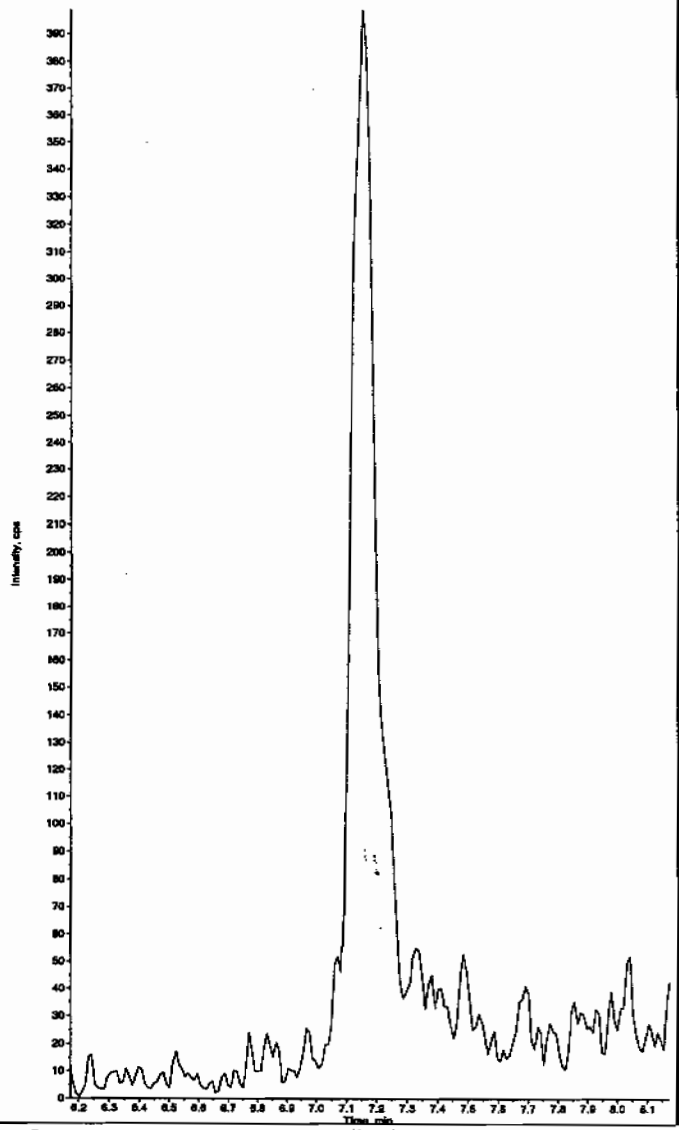
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

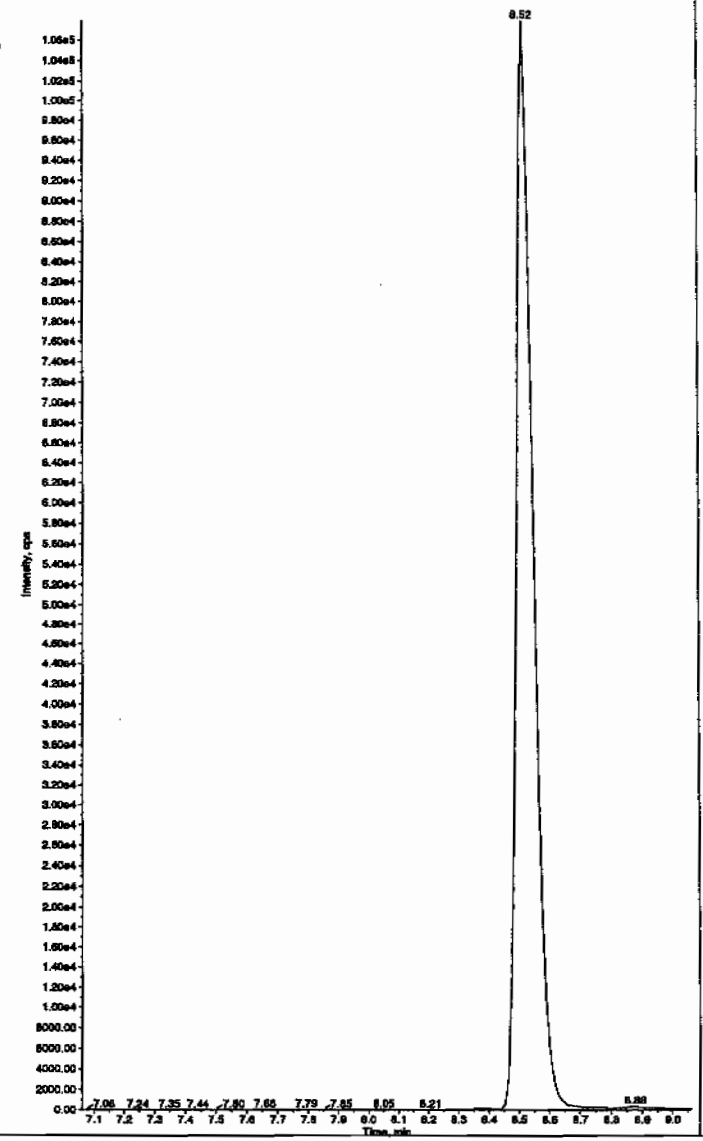
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Lea 2/15/10

Sample Name: "245686001" Sample ID: "947078|2|LER" File: "EXS02130017.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 2:24:08 PM
Modified: No



Sample Name: "245686001" Sample ID: "947078|2|LER" File: "EXS02130017.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 2:24:08 PM
Modified: Yes



Hmm 02/16/10

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

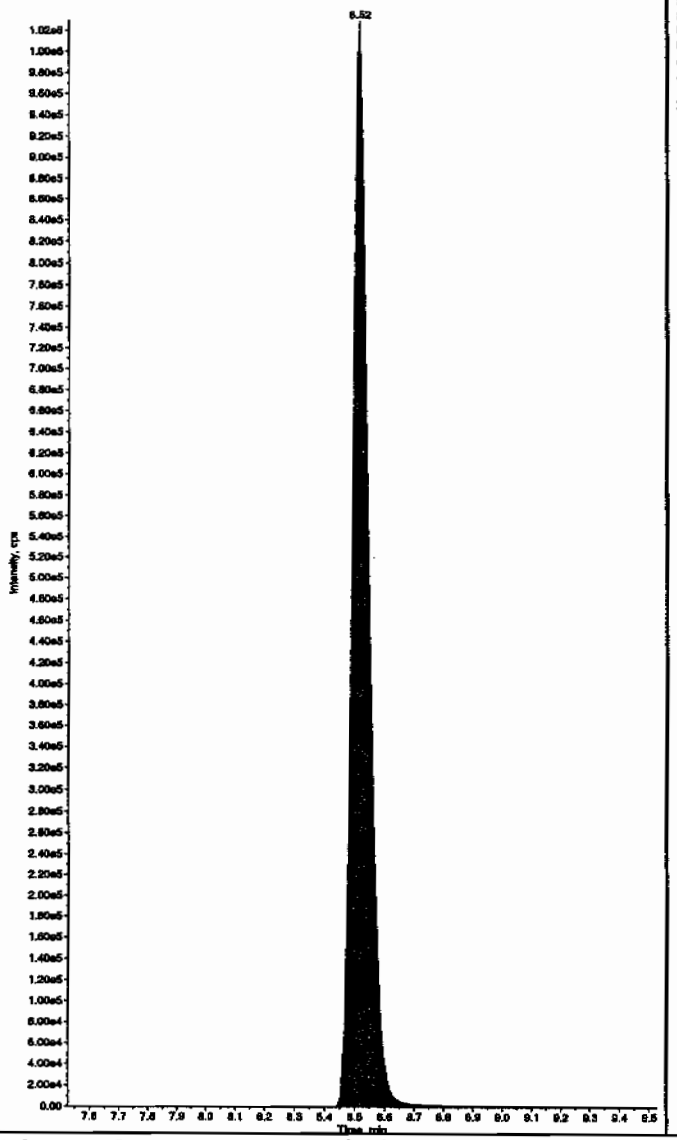
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686001" Sample ID: "947078|2|LER" File: "EXS02130017.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 338. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 2:24:08 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: 8.53 min
Use Relative RT: No

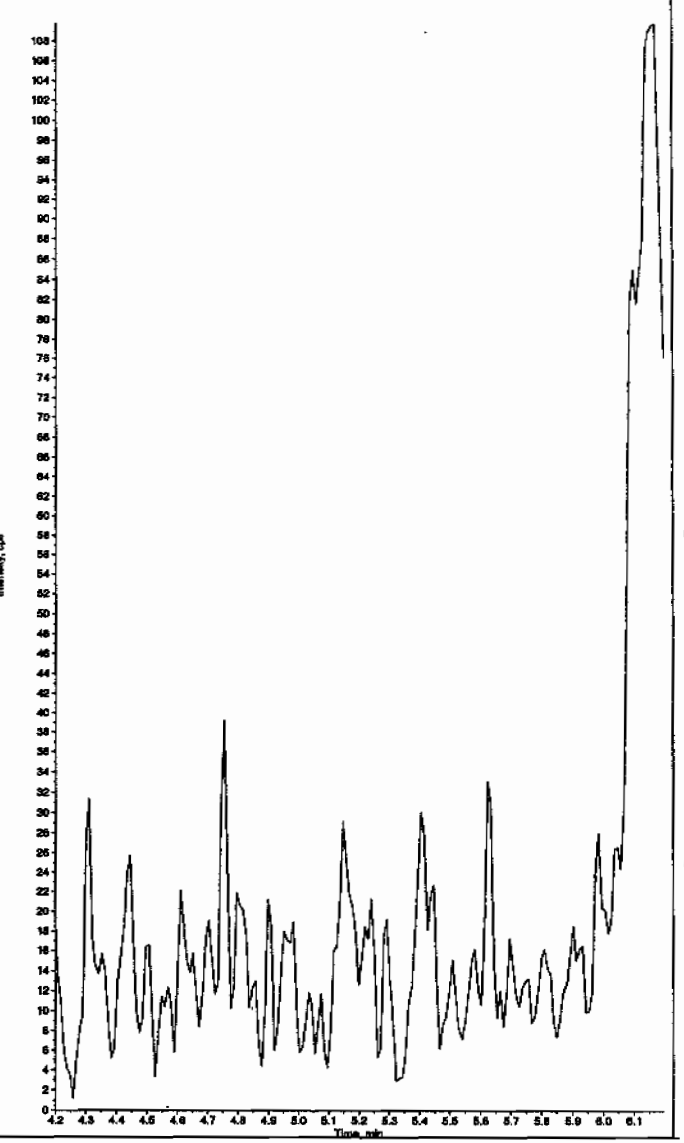
Int. Type: Valley
Retention Time: 8.52 min
Area: 3.98e+006 counts
Height: 1029846.313 cps
Start Time: 8.37 min
End Time: 8.88 min



Sample Name: "245686001" Sample ID: "947078|2|LER" File: "EXS02130017.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

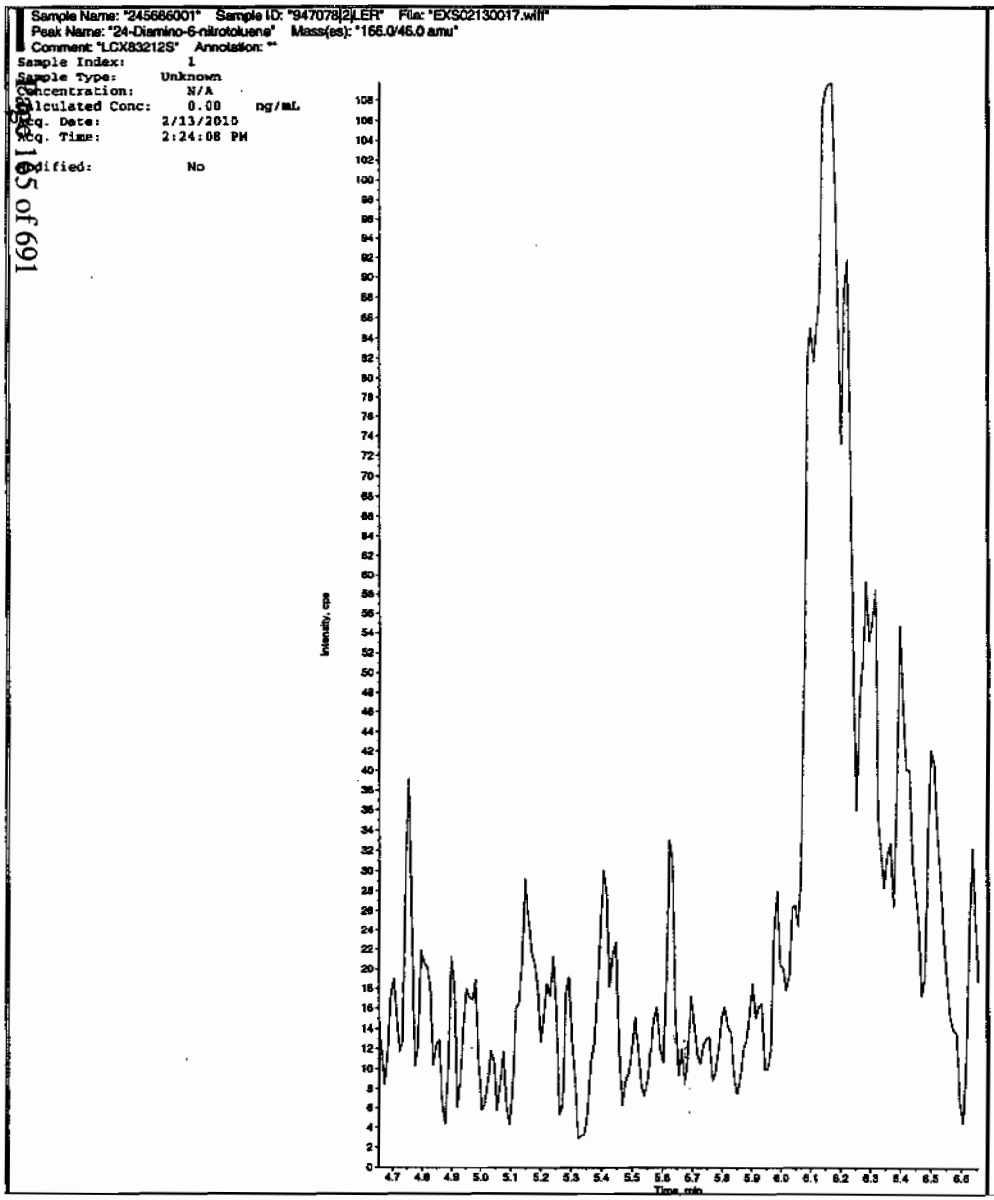
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 2:24:08 PM

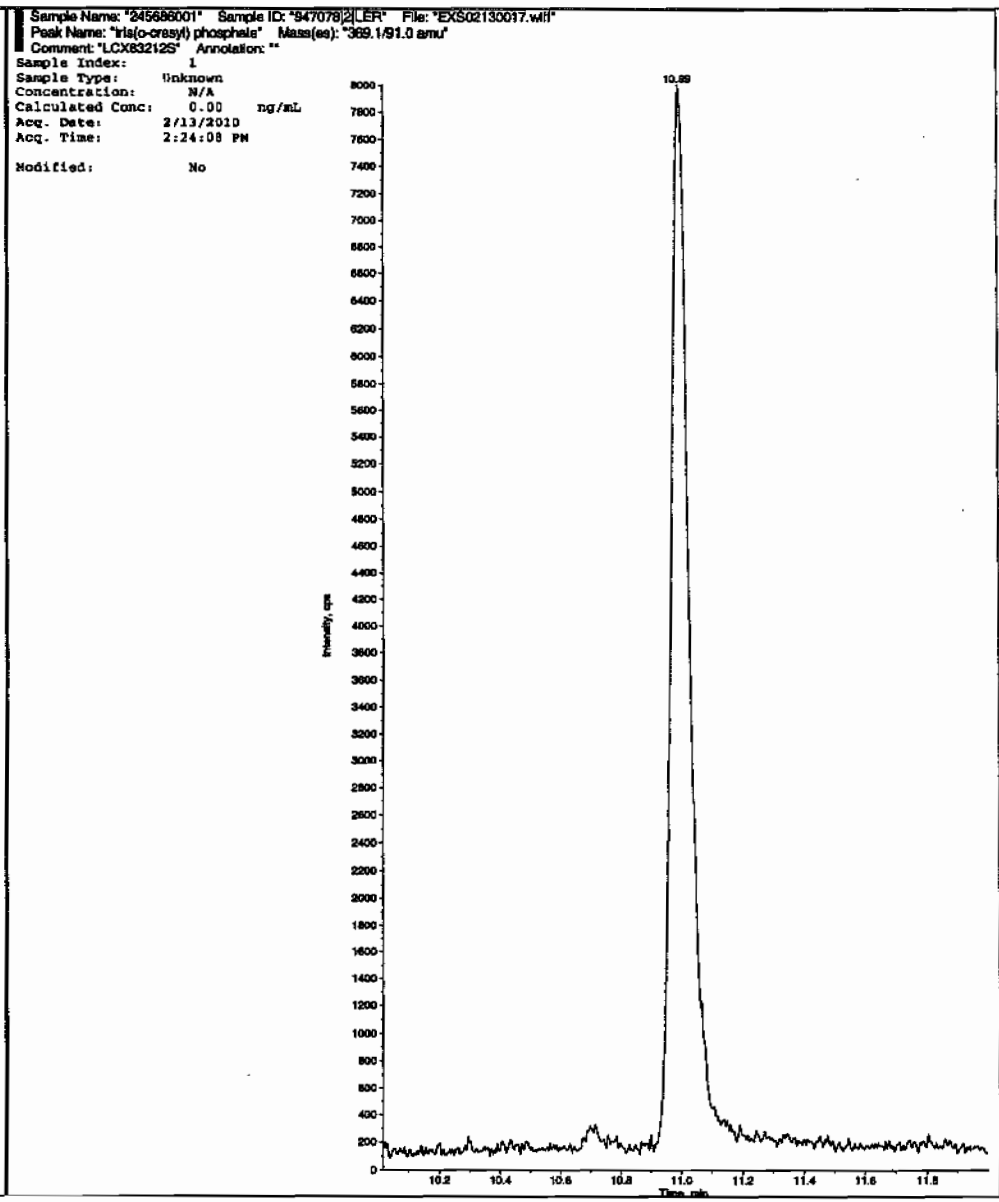
Modified: No



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

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





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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7884

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686002

Sample Amount 2

Moisture: 5.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208188a

Date Analyzed: 12-FEB-10 10:43

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

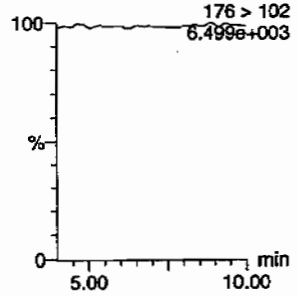
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208188a
Date: 12-Feb-2010
Time: 10:43:12
ID: 245686002
Vial: 4:5,A

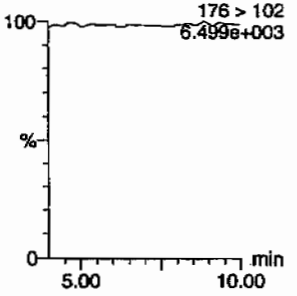
| LANC | 947078 | Solid | 2 |

MM 2/13/10

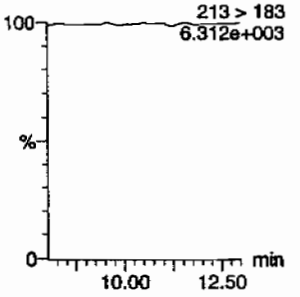
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.499e+003



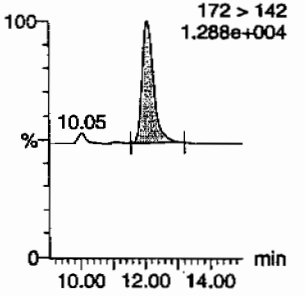
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.499e+003



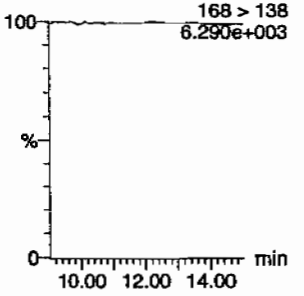
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.312e+003



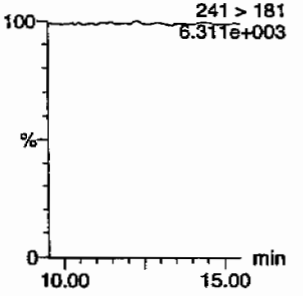
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.288e+004



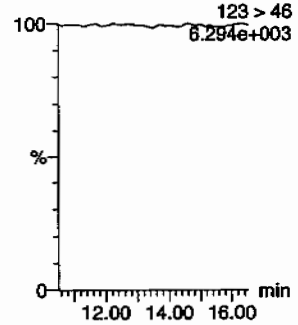
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.290e+003



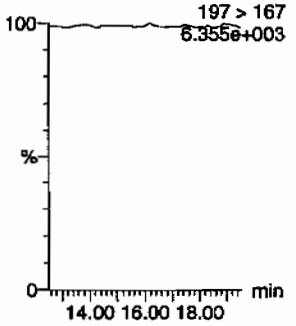
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.311e+003



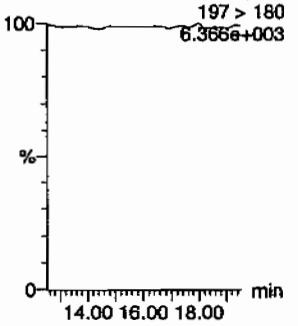
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.294e+003



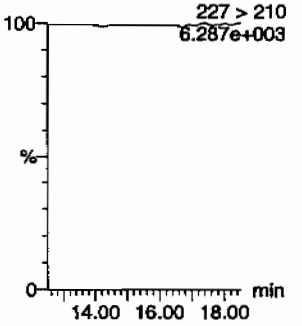
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.355e+003



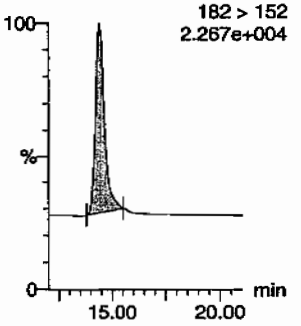
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.365e+003



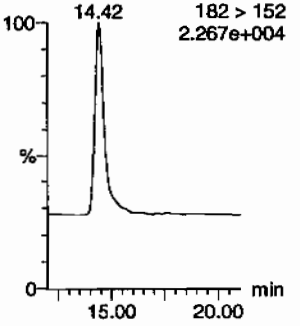
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.287e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.267e+004



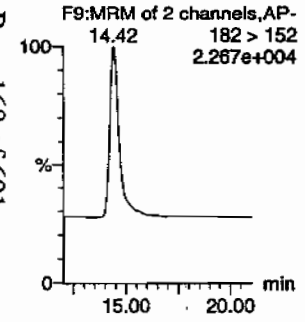
26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.42
182 > 152
2.267e+004



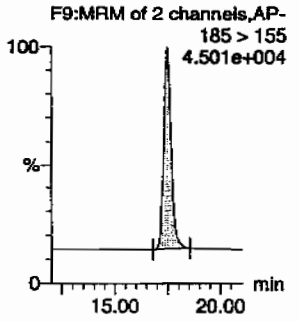
Hmw 02/13/10

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

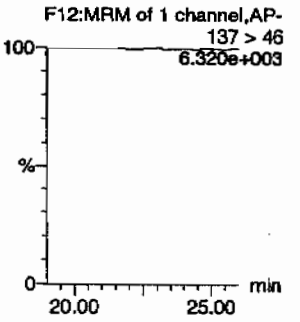
24-dinitrotoluene



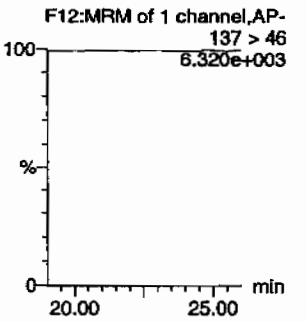
26-dinitrotoluene-d3



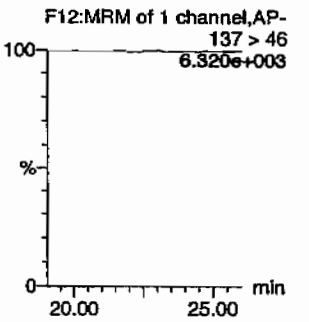
2-Nitrotoluene



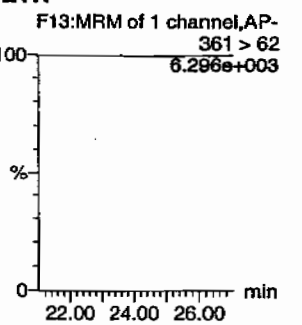
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686002	HMX	176 > 102			2743.540									
245686002	RDX	176 > 102			2743.540									
245686002	135-Trinitrobenzene	213 > 183			2743.540									
245686002	13-Dinitrobenzene-d4	172 > 142	12.07	2743.540		2743.540	2743.540	bb			426.7347	85.3	-14.7	358.2
245686002	13-Dinitrobenzene	168 > 138			2743.540									
245686002	Tetryl	241 > 181			2743.540									
245686002	Nitrobenzene	123 > 46			2743.540									
245686002	4-Amino-26-dinitrotoluene	197 > 167			15761.599									
245686002	2-Amino-46-dinitrotoluene	197 > 180			15761.599									
245686002	246-Trinitrotoluene	227 > 210			15761.599									
245686002	34-dinitrotoluene	182 > 152	14.42	7899.613	15761.599	7899.613	250.597	bb			278.4434	111.4	11.4	364.2
245686002	26-dinitrotoluene	182 > 152			15761.599									
245686002	24-dinitrotoluene	182 > 152			15761.599									
245686002	26-dinitrotoluene-d3	185 > 155	17.46	15761.599		15761.599	15761.599	bb			426.9196	85.4	-14.6	1613.8
245686002	2-Nitrotoluene	137 > 46			15761.599									
245686002	4-Nitrotoluene	137 > 46			15761.599									
245686002	3-Nitrotoluene	137 > 46			15761.599									
245686002	PETN	361 > 62			15761.599									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7884

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686002

Sample Amount 2

Moisture: 5.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130020.wiff

Date Analyzed: 13-FEB-10 15:11

Units: ug/kg

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

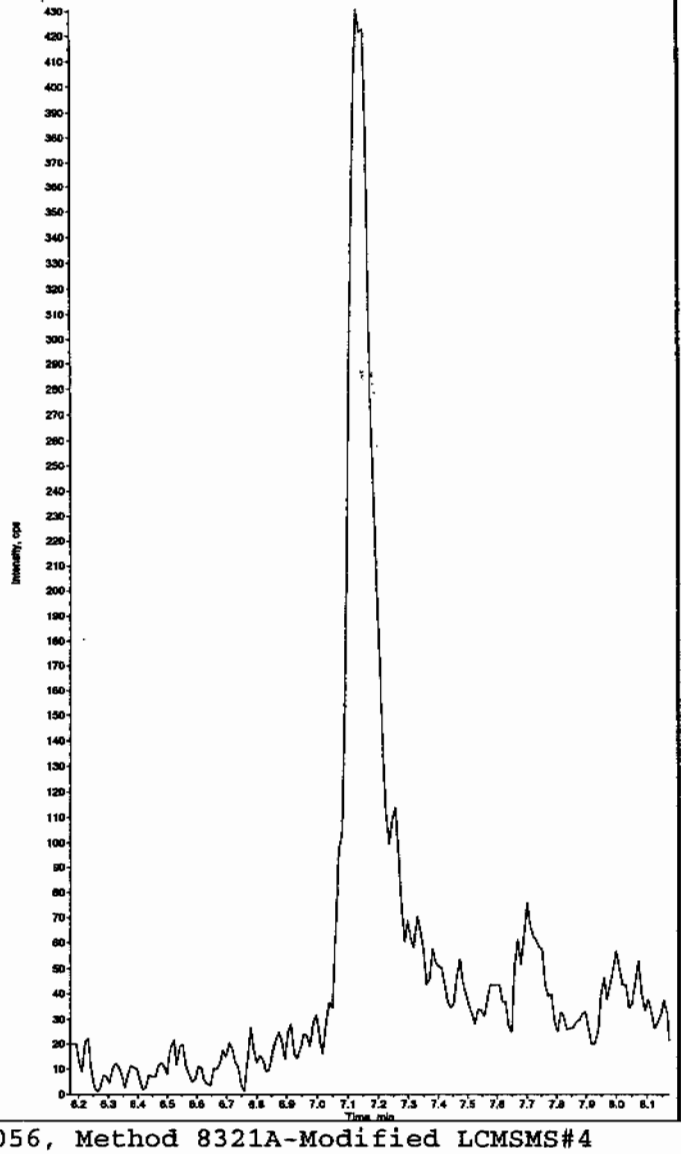
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Sar 2/15/10

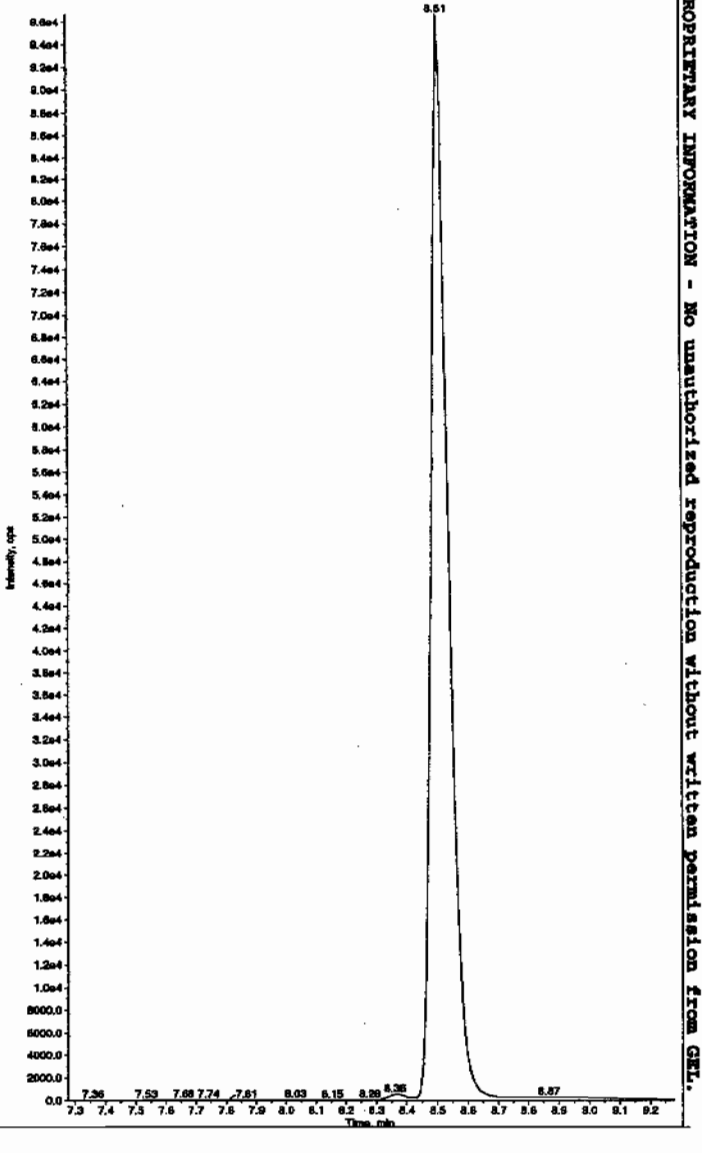
Sample Name: "245686002" Sample ID: "947078[2]LER" File: "EXS02130020.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	3:11:17 PM	
Modified:	No	



Sample Name: "245686002" Sample ID: "947078[2]LER" File: "EXS02130020.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	3:11:17 PM	
Modified:	Yes	



Hmm 2/16/10

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

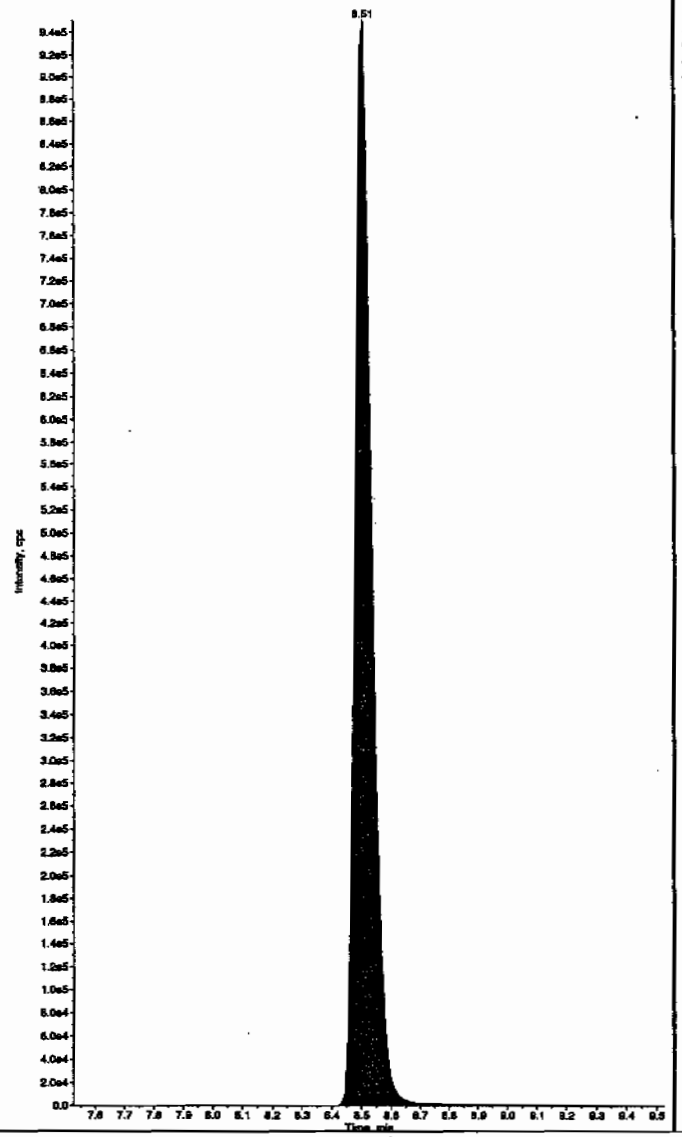
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "245686002" Sample ID: "947078|2|LER" File: "EXS02130020.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 322. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:11:17 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: 8.53 min
Use Relative RT: No

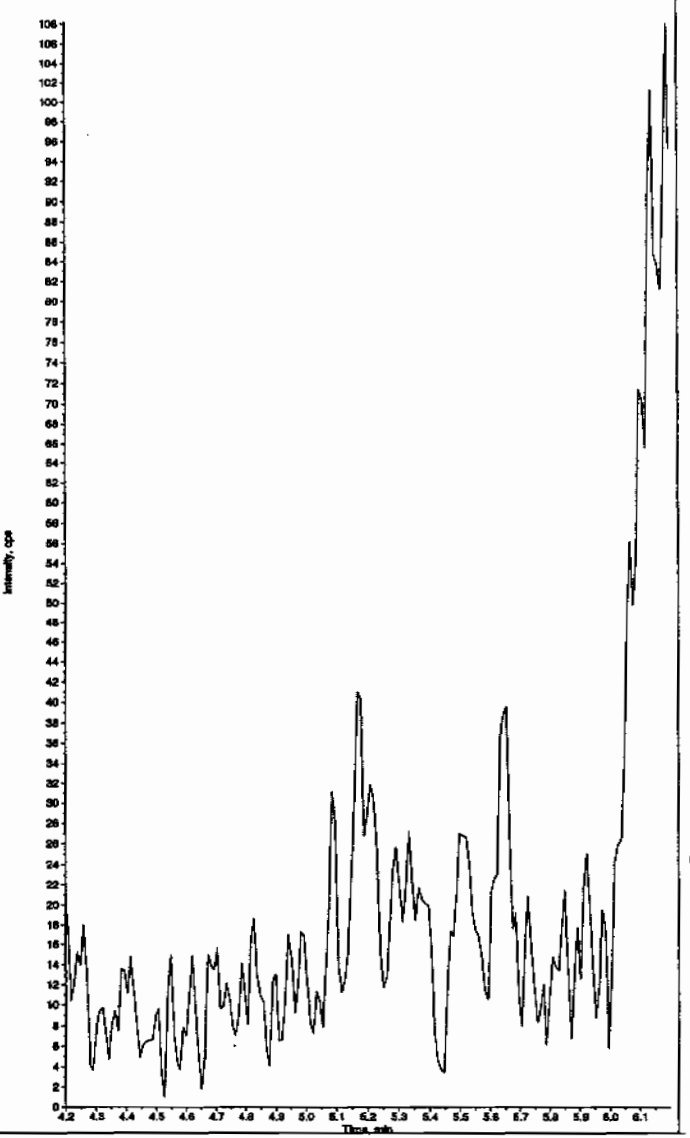
Int. Type: Valley
Retention Time: 8.51 min
Area: 3.80e+006 counts
Height: 950876.099 cps
Start Time: 8.40 min
End Time: 8.82 min



Sample Name: "245686002" Sample ID: "947078|2|LER" File: "EXS02130020.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:11:17 PM

Modified: No

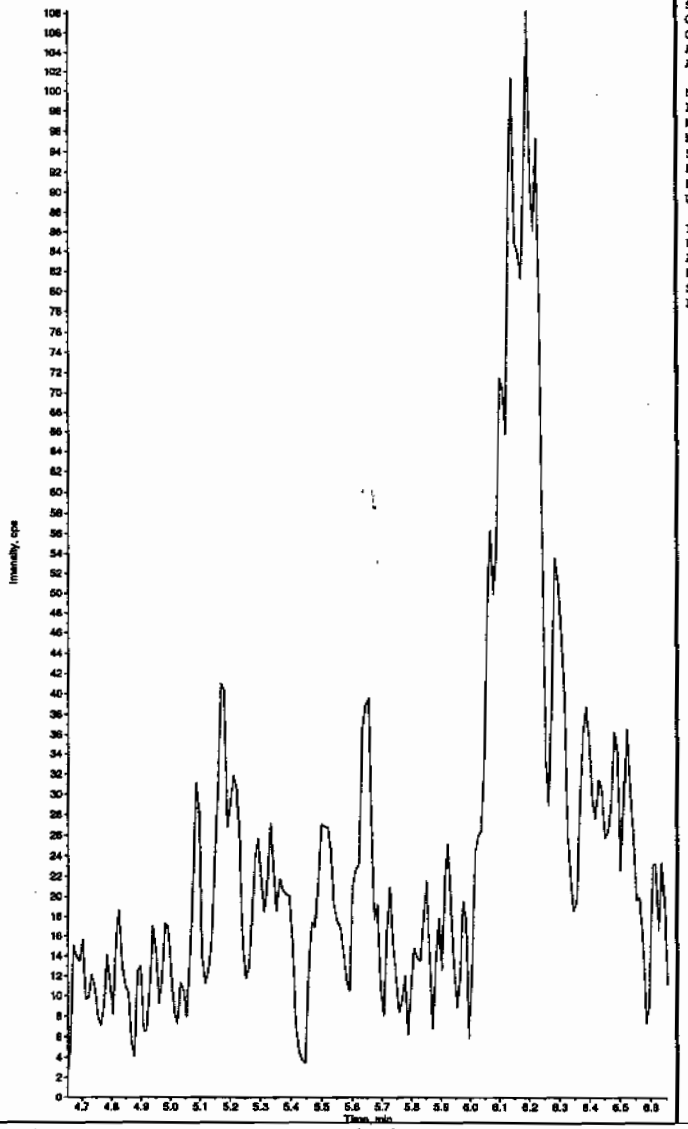


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

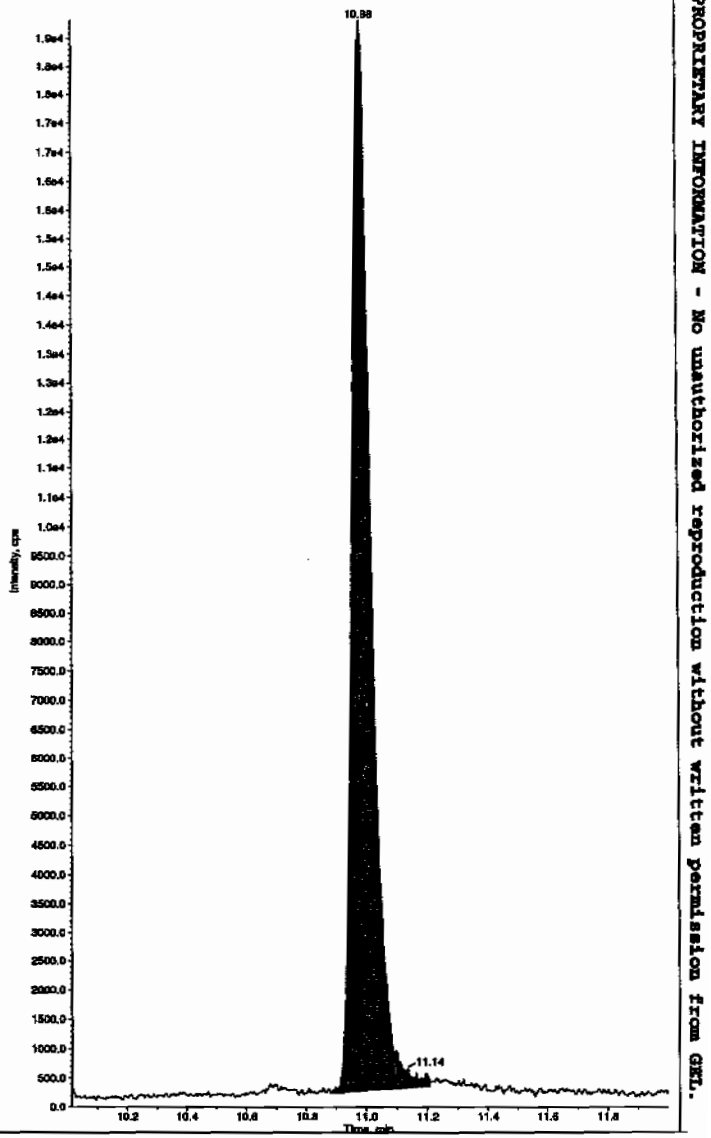
Sample Name: "245686002" Sample ID: "947078[2]LER" File: "EXS02130020.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	6.00	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	3:11:17 PM	
Modified:	No	



Sample Name: "245686002" Sample ID: "947078[2]LER" File: "EXS02130020.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	2.02	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	3:11:17 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	1.00e4	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	11.0	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	11.0	min
Area:	8.40e+004	counts
Height:	18557.674	cps
Start Time:	10.9	min
End Time:	11.2	min



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7932

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208189a

Date Analyzed: 12-FEB-10 11:13

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 =

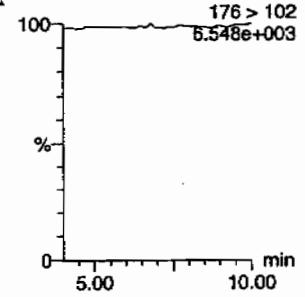
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

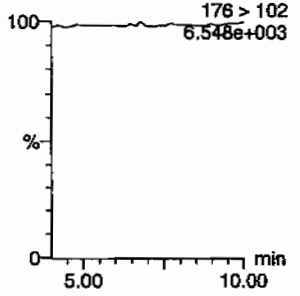
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208189a
Date: 12-Feb-2010
Time: 11:13:12
ID: 245686003 | LANL | 947078 | SOLID | 2 |
Vial: 4:5,B

MAP 2/13/10

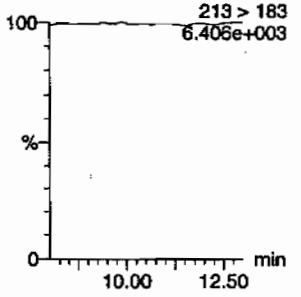
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.548e+003



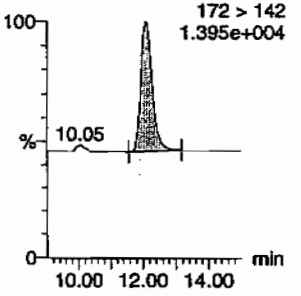
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.548e+003



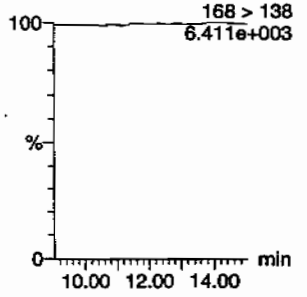
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.406e+003



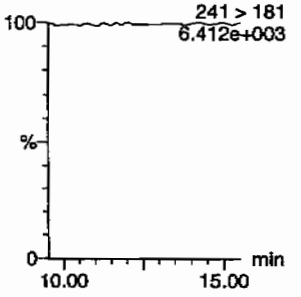
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.395e+004



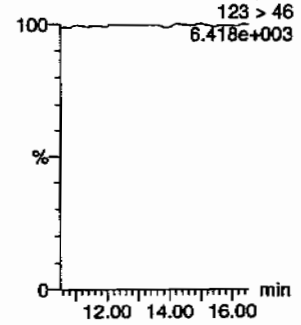
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.411e+003



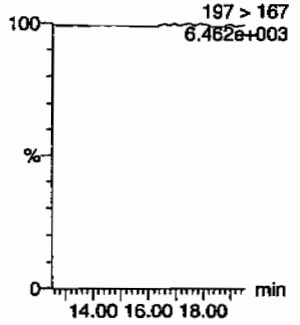
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.412e+003



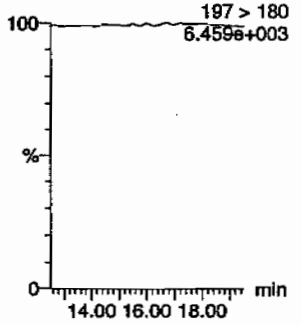
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.418e+003



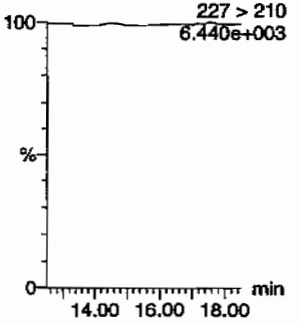
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.462e+003



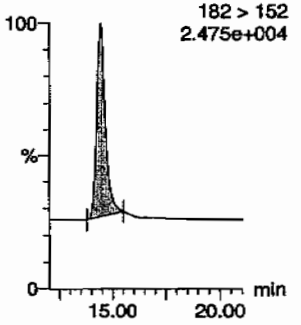
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.459e+003



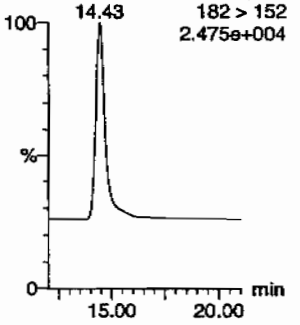
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.440e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.475e+004



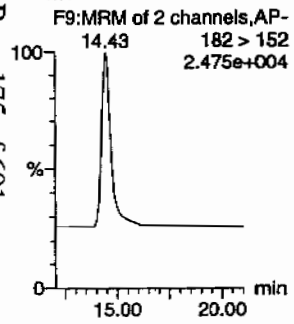
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.475e+004



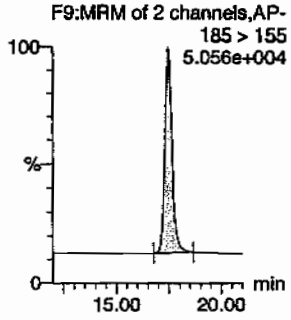
Hmm 02/13/10

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

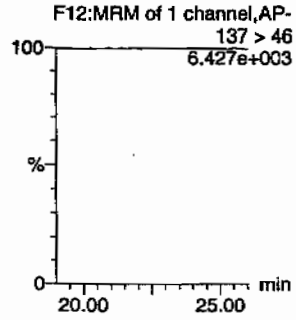
24-dinitrotoluene



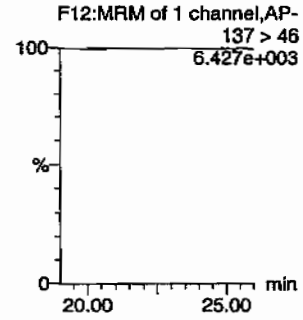
26-dinitrotoluene-d3



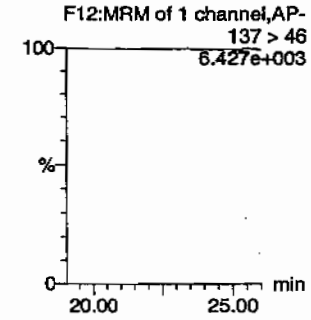
2-Nitrotoluene



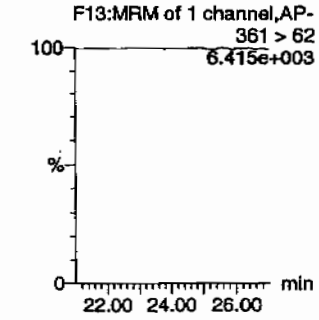
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date?	Mod.Time	ng/mL	%Rec	%Dev	S/N
245686003	HMX	176 > 102			3094.481									
245686003	RDX	176 > 102			3094.481									
245686003	135-Trinitrobenzene	213 > 183			3094.481									
245686003	13-Dinitrobenzene-d4	172 > 142	12.10	3094.481		3094.481	3094.481	bb			481.3206	96.3	-3.7	299.9
245686003	13-Dinitrobenzene	168 > 138			3094.481									
245686003	Tetryl	241 > 181			3094.481									
245686003	Nitrobenzene	123 > 46			3094.481									
245686003	4-Amino-26-dinitrotoluene	197 > 167			18009.797									
245686003	2-Amino-46-dinitrotoluene	197 > 180			18009.797									
245686003	246-Trinitrotoluene	227 > 210			18009.797									
245686003	34-dinitrotoluene	182 > 152	14.43	8704.408	18009.797	8704.408	241.658	bb			268.5108	107.4	7.4	527.1
245686003	26-dinitrotoluene	182 > 152			18009.797									
245686003	24-dinitrotoluene	182 > 152			18009.797									
245686003	26-dinitrotoluene-d3	185 > 155	17.46	18009.797		18009.797	18009.797	bb			487.8144	97.6	-2.4	2733.4
245686003	2-Nitrotoluene	137 > 46			18009.797									
245686003	4-Nitrotoluene	137 > 46			18009.797									
245686003	3-Nitrotoluene	137 > 46			18009.797									
245686003	PETN	361 > 62			18009.797									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7932

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130021.wiff

Date Analyzed: 13-FEB-10 15:26

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

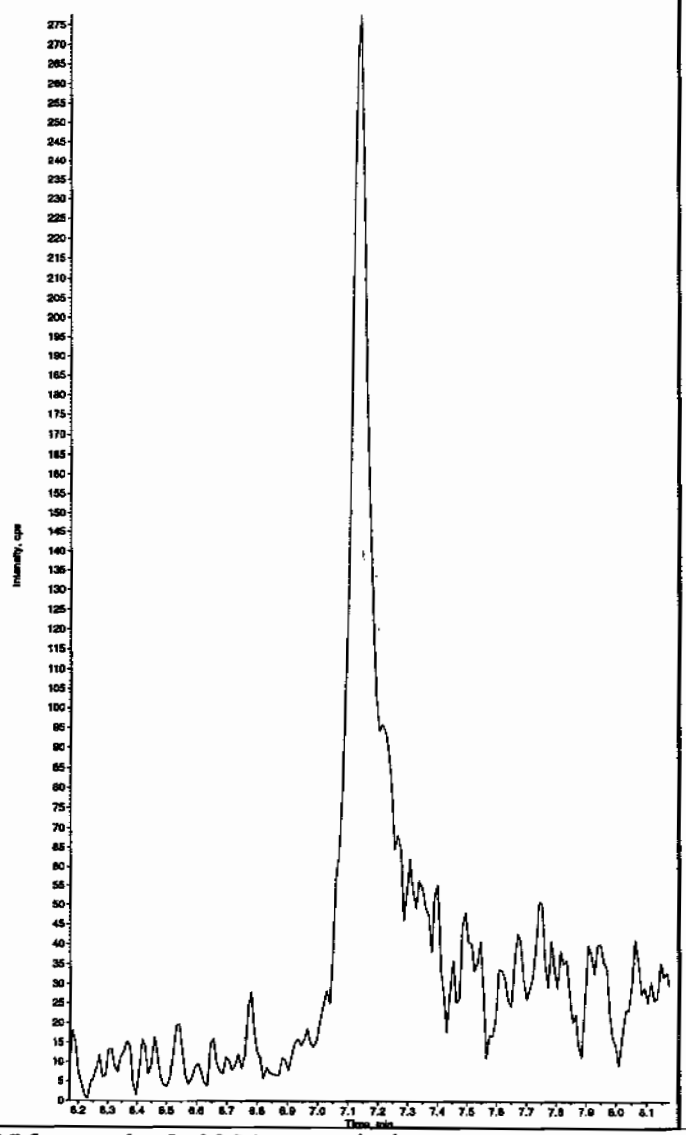
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Lar 2/15/10

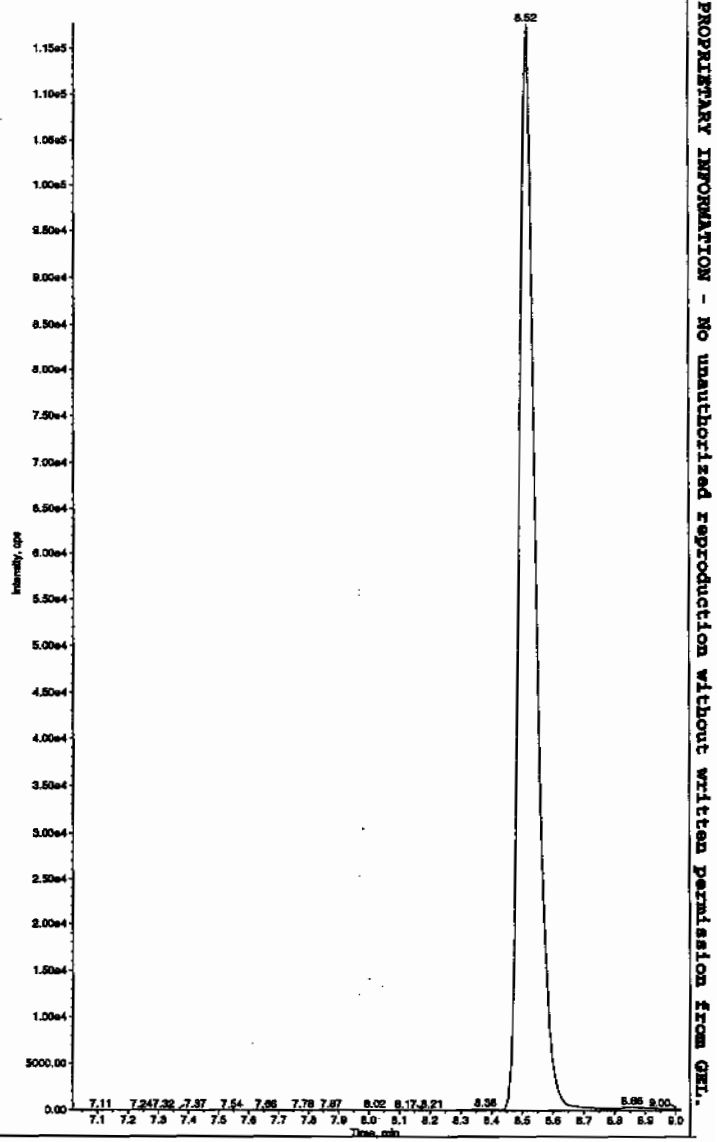
Sample Name: "245686003" Sample ID: "947078|2|LER" File: "EXS02130021.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:26:57 PM

Modified: No



Sample Name: "245686003" Sample ID: "947078|2|LER" File: "EXS02130021.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:26:57 PM

Modified: Yes



Hmm 02/16/10

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

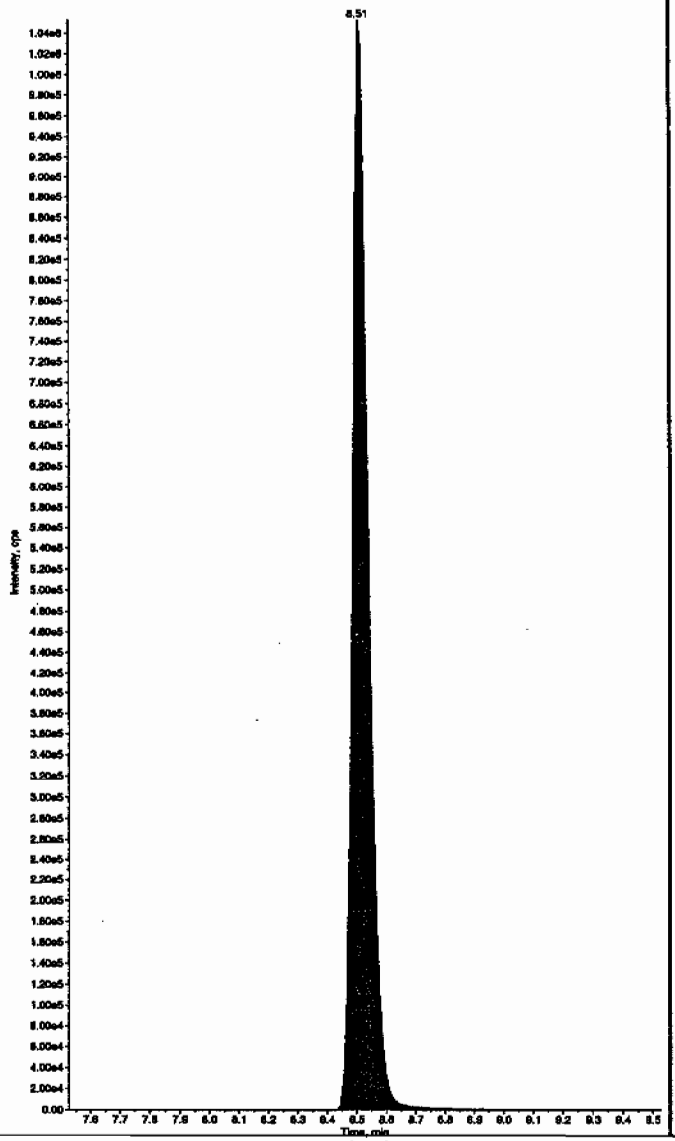
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245586003" Sample ID: "947078|2|LER" File: "EXS02130021.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 348. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:26:57 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: 8.53 min
Use Relative RT: No

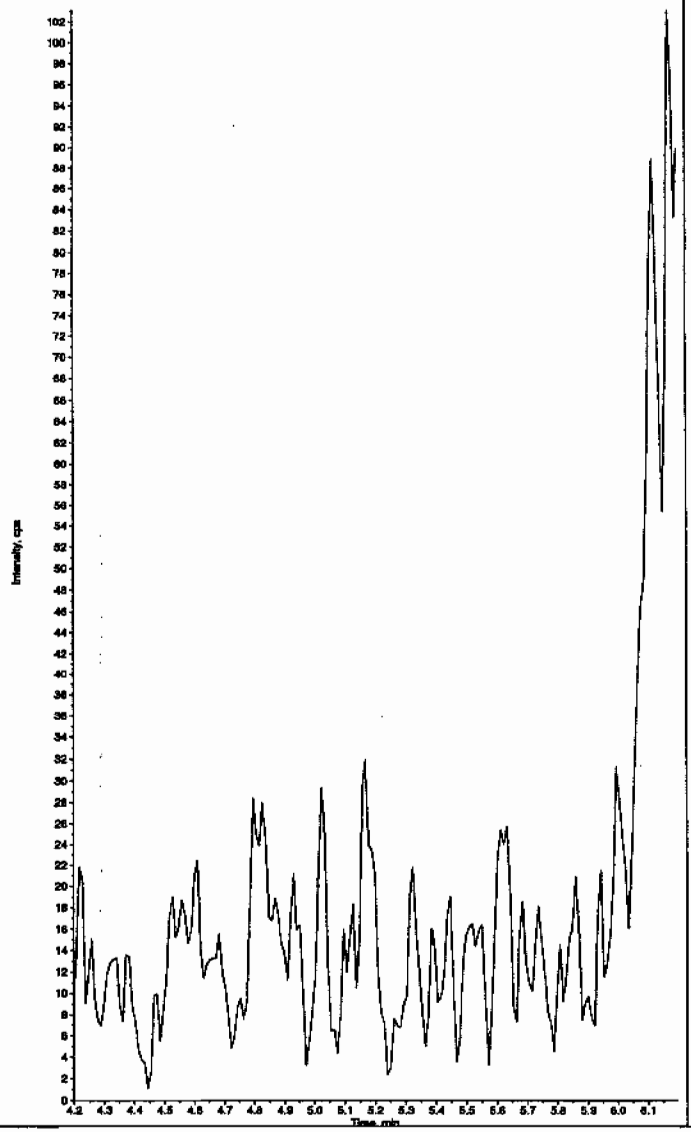
Int. Type: Valley
Retention Time: 8.51 min
Area: 4.09e+006 counts
Height: 1053510.254 cps
Start Time: 8.41 min
End Time: 8.88 min



Sample Name: "245586003" Sample ID: "947078|2|LER" File: "EXS02130021.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX832125" Annotation: ""

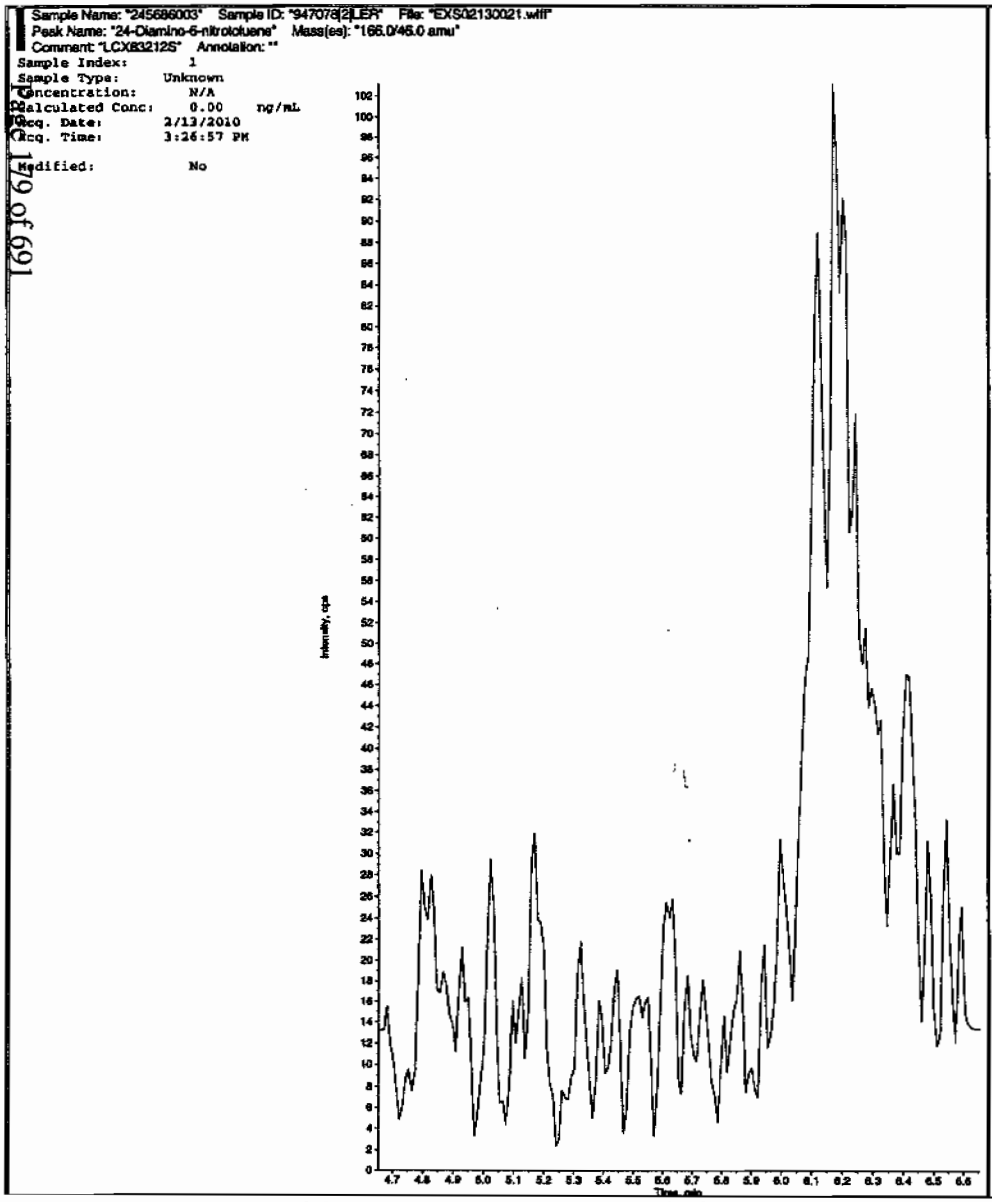
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:26:57 PM

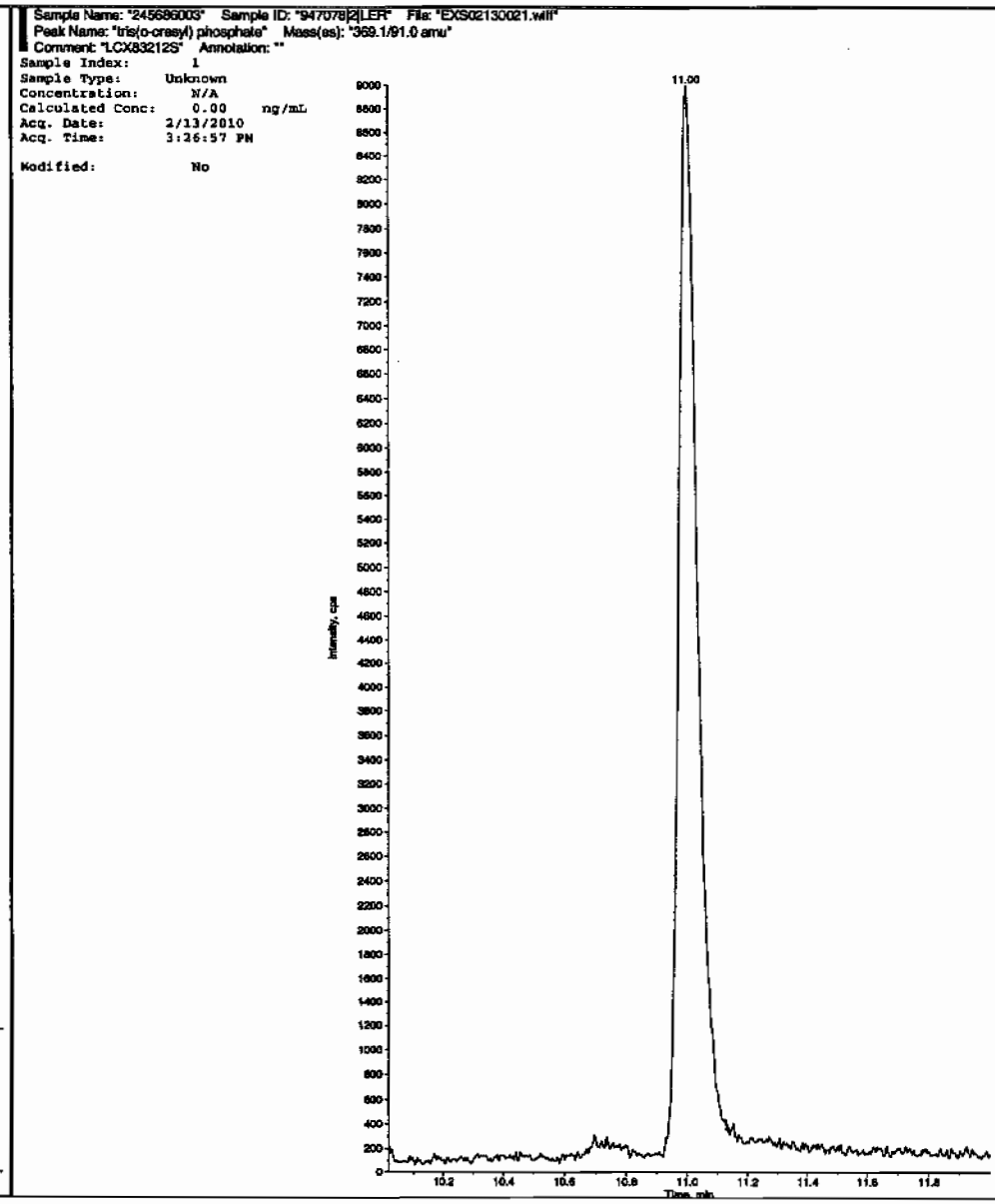
Modified: No



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

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





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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7931

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208190a

Date Analyzed: 12-FEB-10 11:42

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

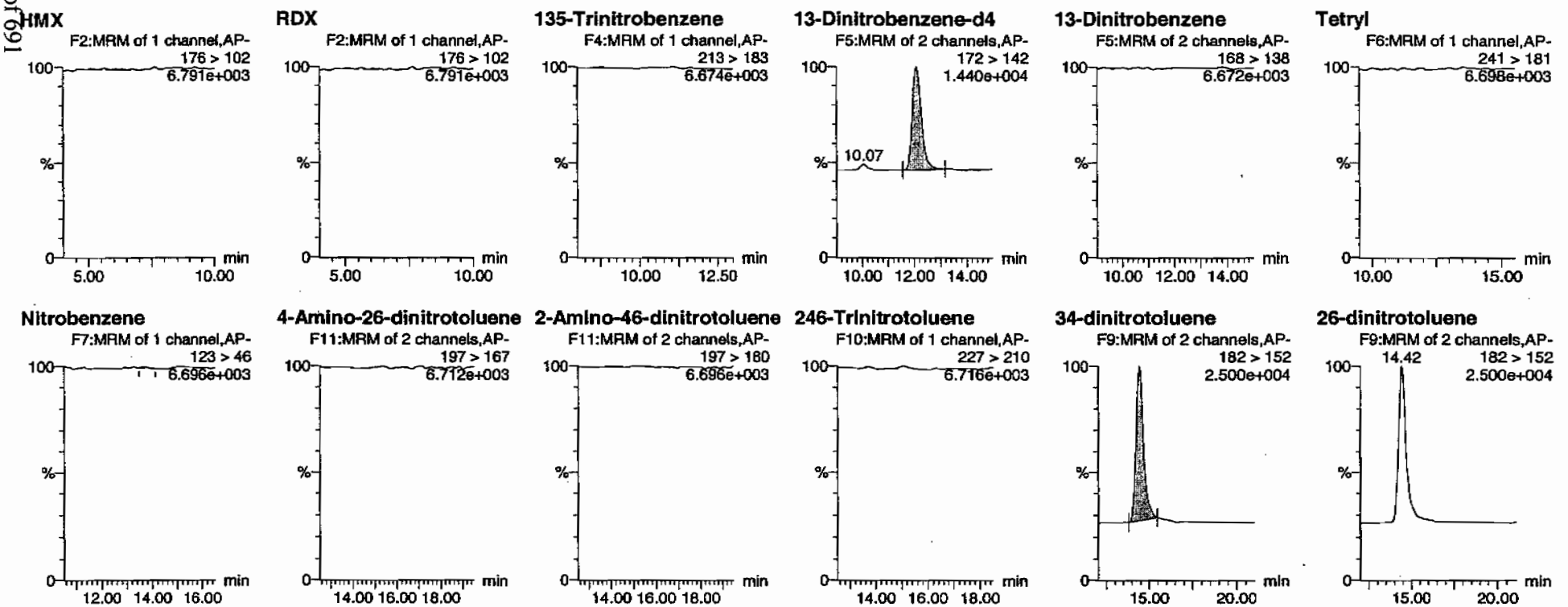
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208190a
Date: 12-Feb-2010
Time: 11:42:57
ID: 245686004 | LANL | 947078 | Solids | 21
Vial: 4:5,C

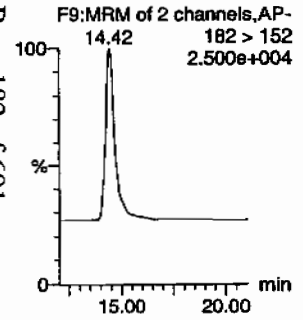
MAP 2/13/10



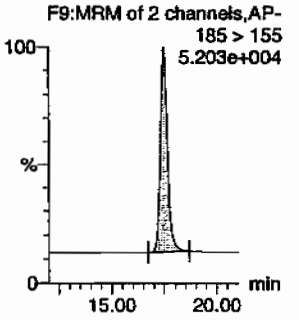
Hnm 02/13/10

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

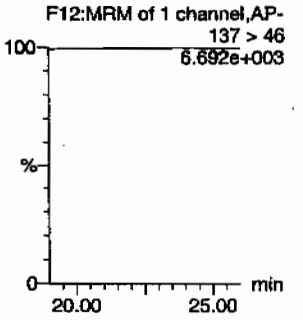
24-dinitrotoluene



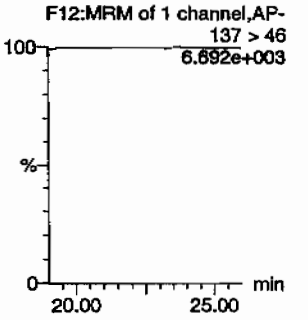
26-dinitrotoluene-d3



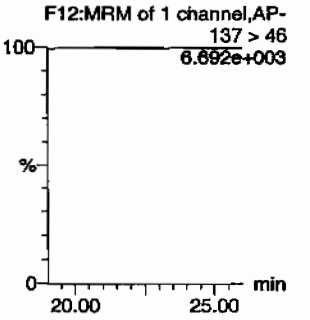
2-Nitrotoluene



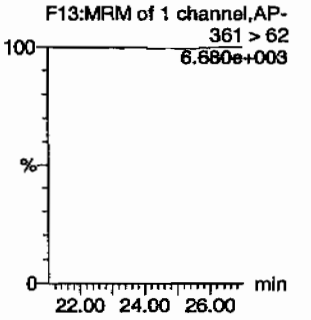
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686004	HMX	176 > 102			3140.770									
245686004	RDX	176 > 102			3140.770									
245686004	135-Trinitrobenzene	213 > 183			3140.770									
245686004	13-Dinitrobenzene-d4	172 > 142	12.07	3140.770		3140.770	3140.770	bb			488.5205	97.7	-2.3	158.9
245686004	13-Dinitrobenzene	168 > 138			3140.770									
245686004	Tetryl	241 > 181			3140.770									
245686004	Nitrobenzene	123 > 46			3140.770			MM-	13-Feb-10	09:18:41				
245686004	4-Amino-26-dinitrotoluene	197 > 167			18084.086									
245686004	2-Amino-46-dinitrotoluene	197 > 180			18084.086									
245686004	246-Trinitrotoluene	227 > 210			18084.086									
245686004	34-dinitrotoluene	182 > 152	14.42	8997.962	18084.086	8997.962	248.781	bb			276.4260	110.6	10.6	243.2
245686004	26-dinitrotoluene	182 > 152			18084.086									
245686004	24-dinitrotoluene	182 > 152			18084.086									
245686004	26-dinitrotoluene-d3	185 > 155	17.46	18084.086		18084.086	18084.086	bb			489.8266	98.0	-2.0	2160.7
245686004	2-Nitrotoluene	137 > 46			18084.086									
245686004	4-Nitrotoluene	137 > 46			18084.086									
245686004	3-Nitrotoluene	137 > 46			18084.086									
245686004	PETN	361 > 62			18084.086									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7931

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130022.wiff

Date Analyzed: 13-FEB-10 15:42

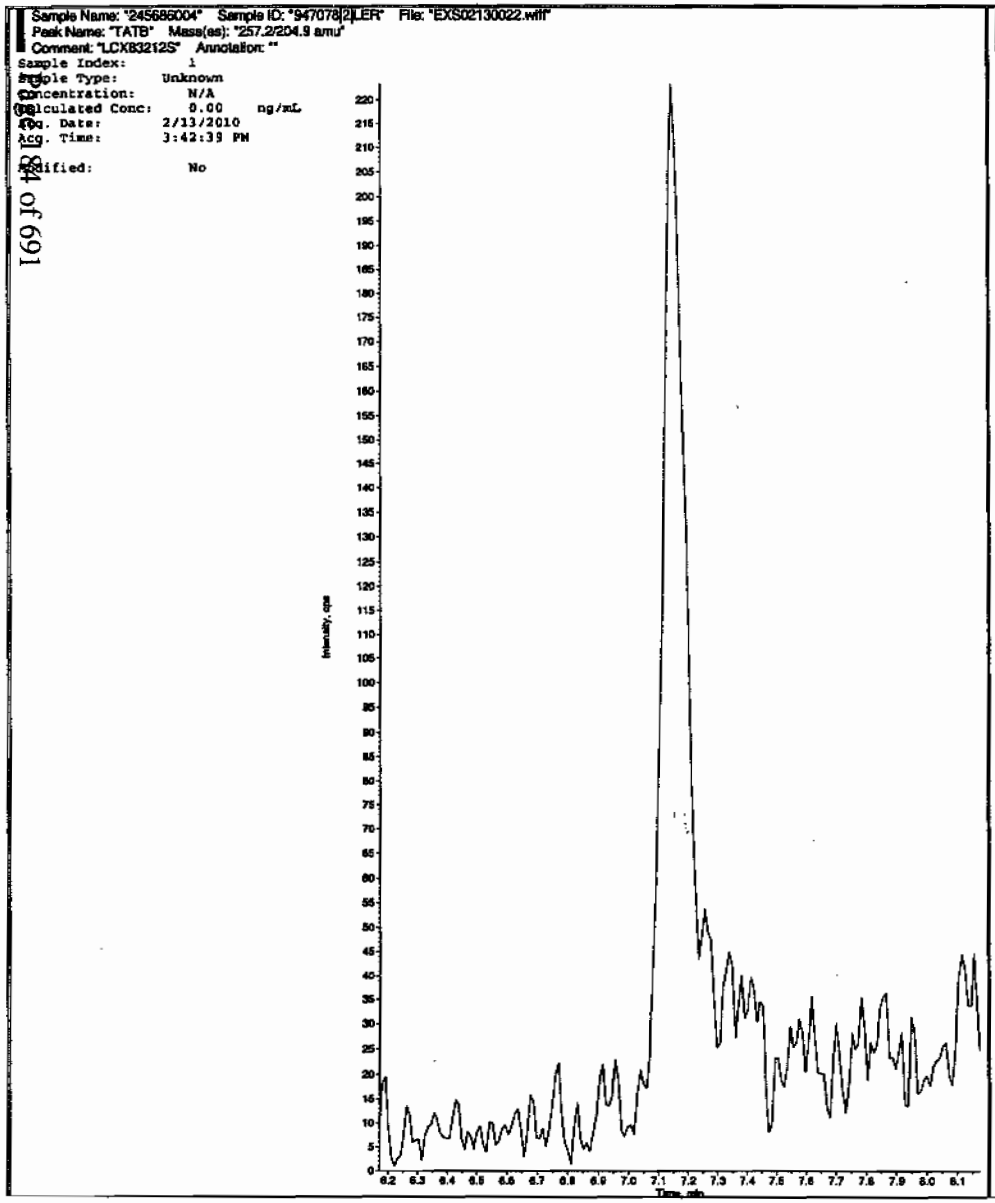
Units: ug/kg

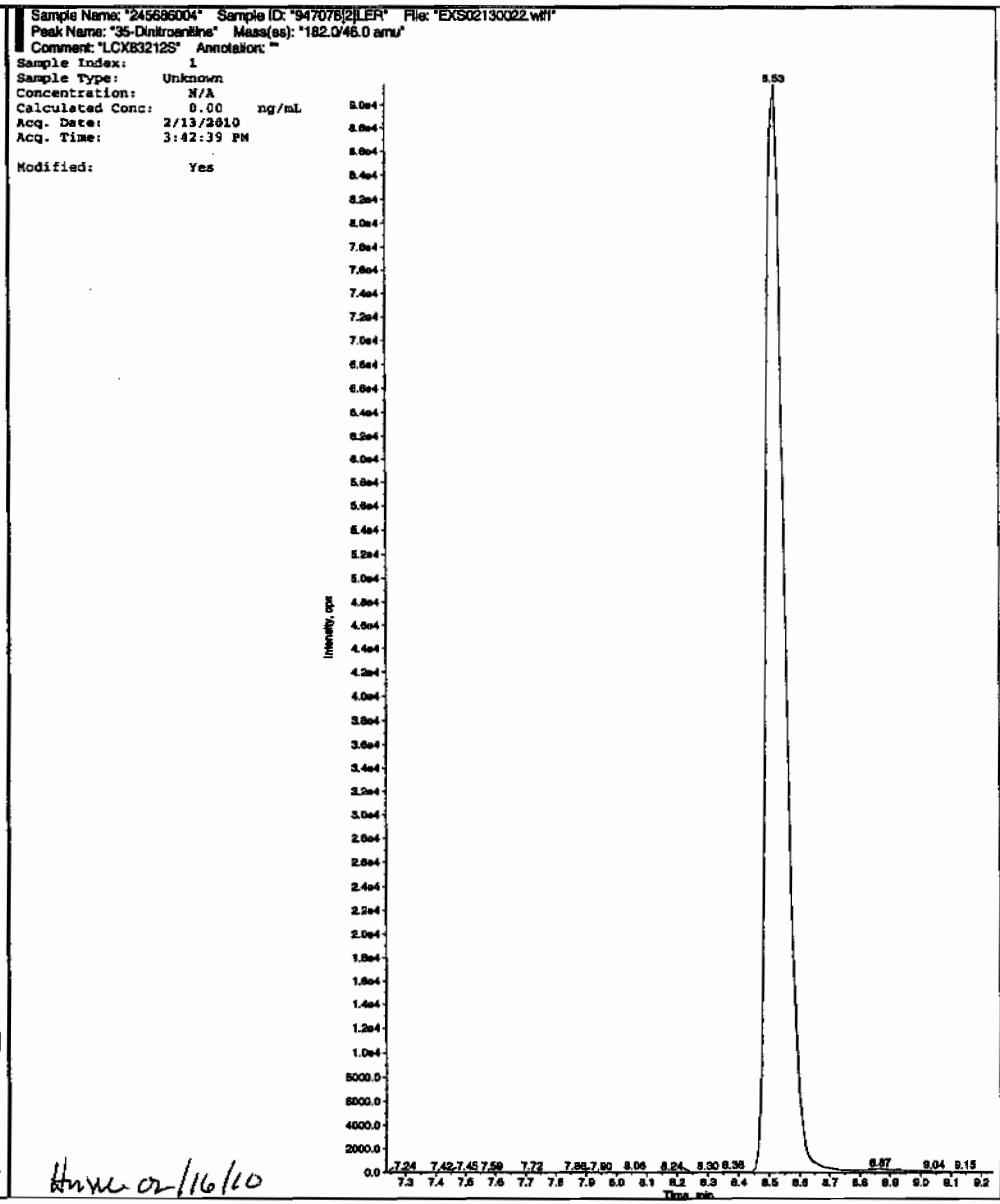
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Rev 2/05/10





Page 184 of 691

Hmc 02/16/10

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

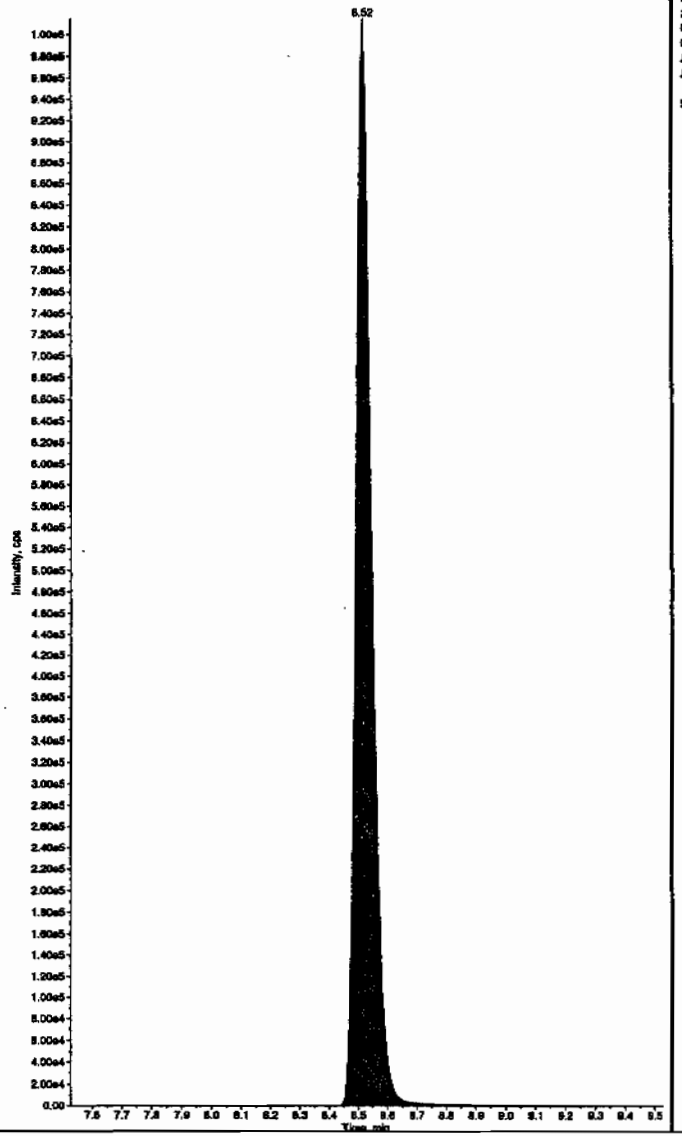
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686004" Sample ID: "947078[2]LER" File: "EXS02130022.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 336. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:42:39 PM

Modified: No
Integ. 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: 8.53 min
Use Relative RT: No

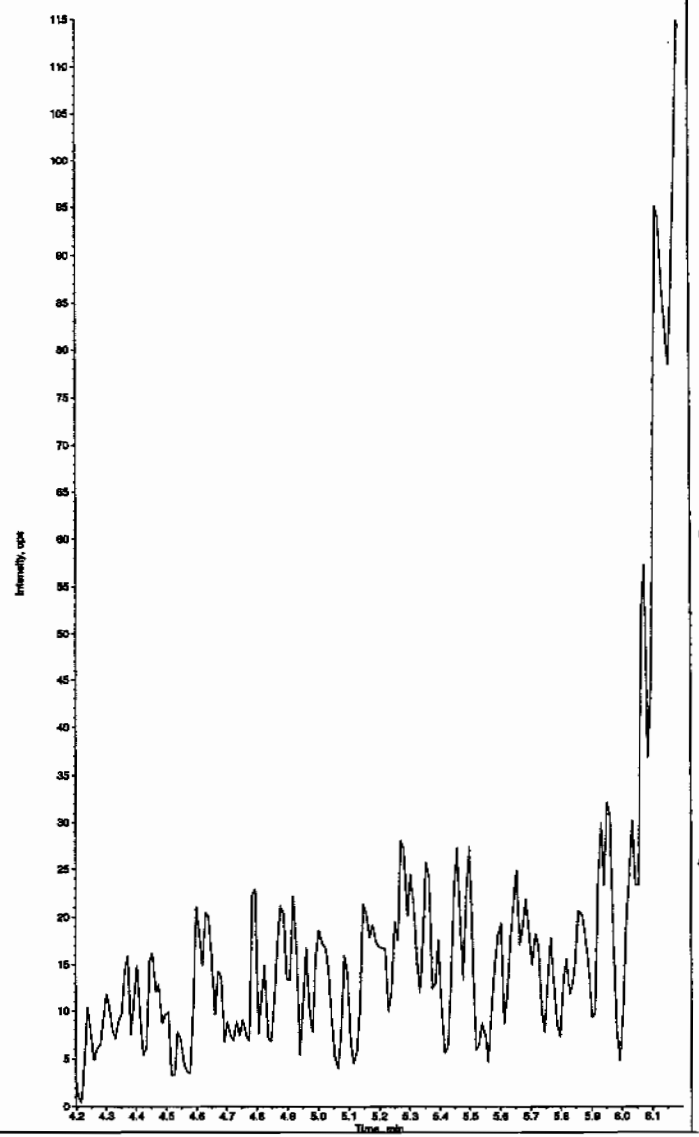
Int. Type: Valley
Retention Time: 8.52 min
Area: 3.95e+006 counts
Height: 1015330.505 cps
Start Time: 8.39 min
End Time: 8.88 min



Sample Name: "245686004" Sample ID: "947078[2]LER" File: "EXS02130022.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:42:39 PM

Modified: No



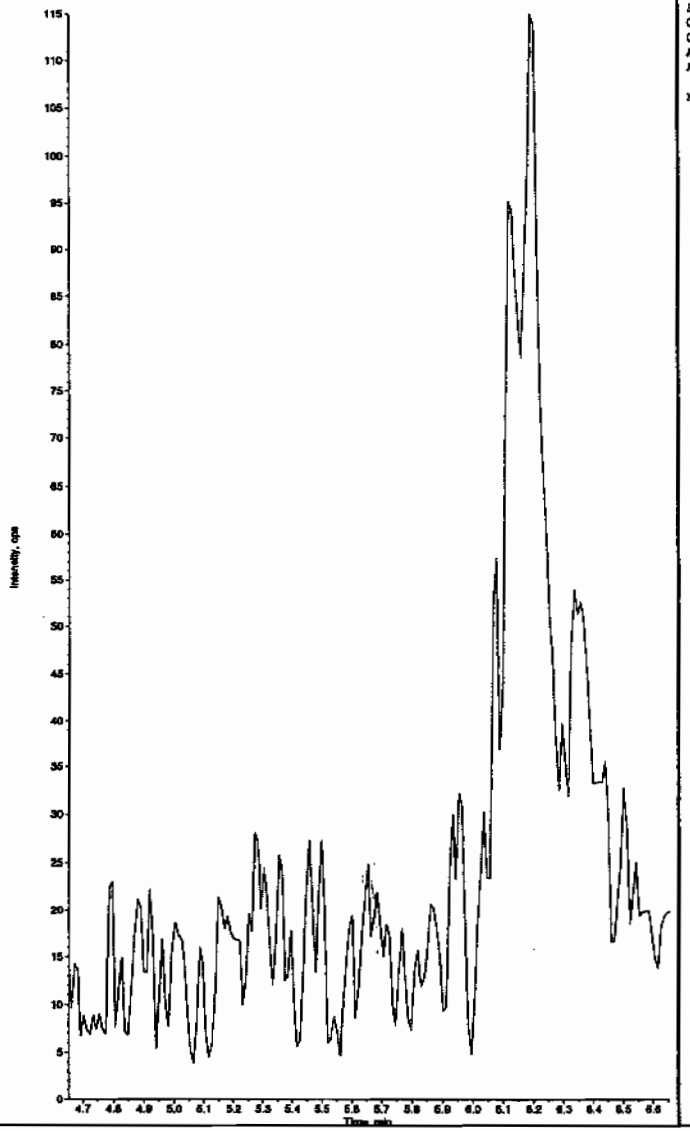
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

Sample Name: "245686004" Sample ID: "847078|2|LER" File: "EXS02130022.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:42:39 PM

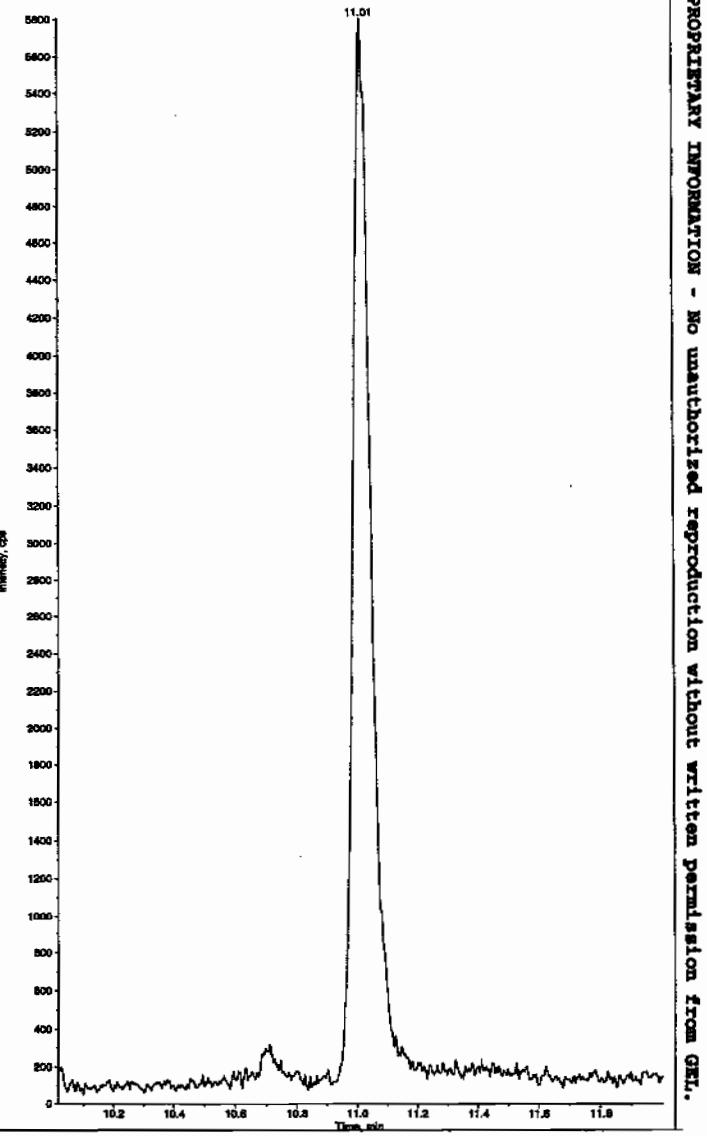
Modified: No



Sample Name: "245686004" Sample ID: "847078|2|LER" File: "EXS02130022.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:42:39 PM

Modified: No



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7938

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208191a

Date Analyzed: 12-FEB-10 12:12

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

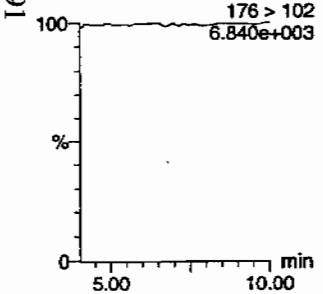
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208191a
Date: 12-Feb-2010
Time: 12:12:27
ID: 245686005
Vial: 4:5,D

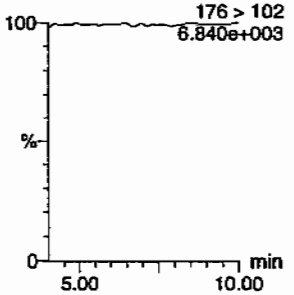
LANL | 947078 | Soil | 2 |

2/12/10

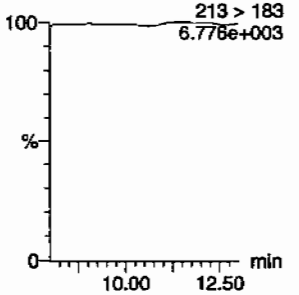
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.840e+003



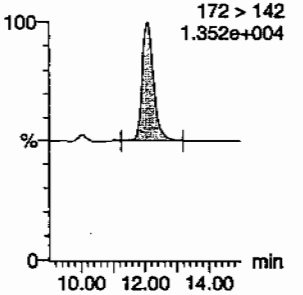
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.840e+003



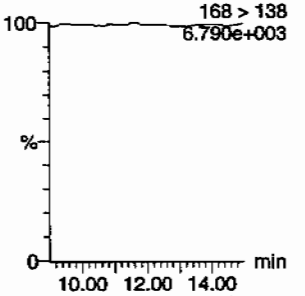
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.776e+003



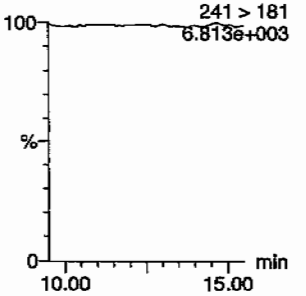
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.352e+004



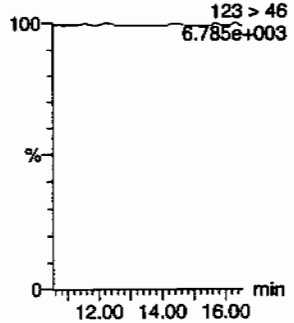
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.790e+003



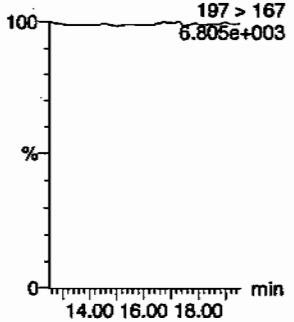
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.813e+003



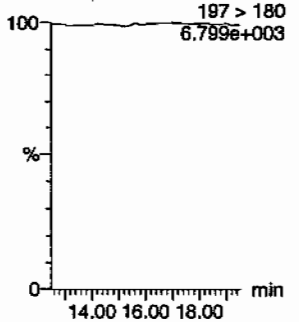
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.785e+003



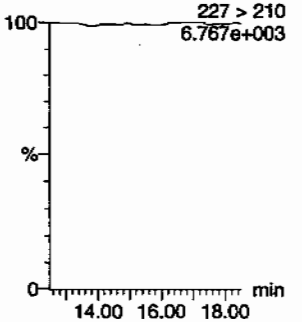
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.805e+003



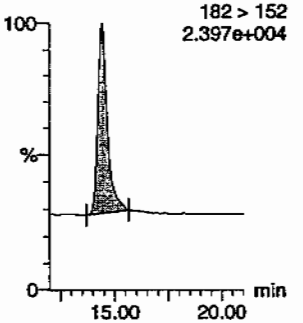
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.799e+003



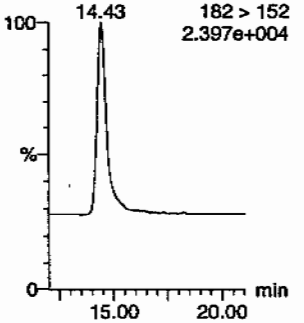
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.767e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.397e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.43
182 > 152
2.397e+004

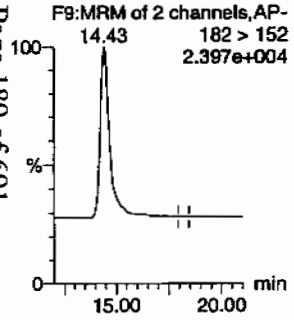


Hmm 02/13/10

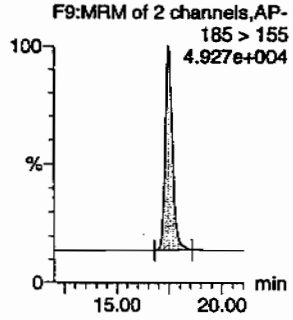
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

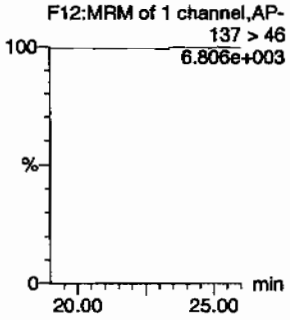
24-dinitrotoluene



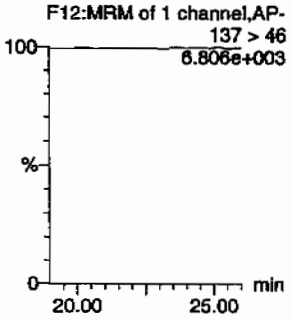
26-dinitrotoluene-d3



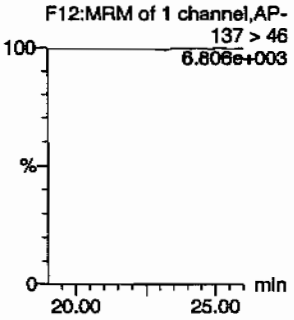
2-Nitrotoluene



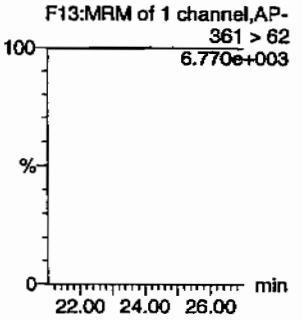
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686005	HMX	176 > 102			2779.316									
245686005	RDX	176 > 102			2779.316									
245686005	135-Trinitrobenzene	213 > 183			2779.316									
245686005	13-Dinitrobenzene-d4	172 > 142	12.10	2779.316		2779.316	2779.316	bb			432.2993	86.5	-13.5	358.4
245686005	13-Dinitrobenzene	168 > 138			2779.316									
245686005	Tetryl	241 > 181			2779.316									
245686005	Nitrobenzene	123 > 46			2779.316									
245686005	4-Amino-26-dinitrotoluene	197 > 167			17403.484									
245686005	2-Amino-46-dinitrotoluene	197 > 180			17403.484									
245686005	246-Trinitrotoluene	227 > 210			17403.484									
245686005	34-dinitrotoluene	182 > 152	14.43	8465.923	17403.484	8465.923	243.225	bb			270.2523	108.1	8.1	418.7
245686005	26-dinitrotoluene	182 > 152			17403.484									
245686005	24-dinitrotoluene	182 > 152			17403.484			MM-	13-Feb-10	09:27:43				
245686005	26-dinitrotoluene-d3	185 > 155	17.47	17403.484		17403.484	17403.484	bb			471.3918	94.3	-5.7	1777.6
245686005	2-Nitrotoluene	137 > 46			17403.484									
245686005	4-Nitrotoluene	137 > 46			17403.484									
245686005	3-Nitrotoluene	137 > 46			17403.484									
245686005	PETN	361 > 62			17403.484									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7938

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130023.wiff

Date Analyzed: 13-FEB-10 15:58

Units: ug/kg

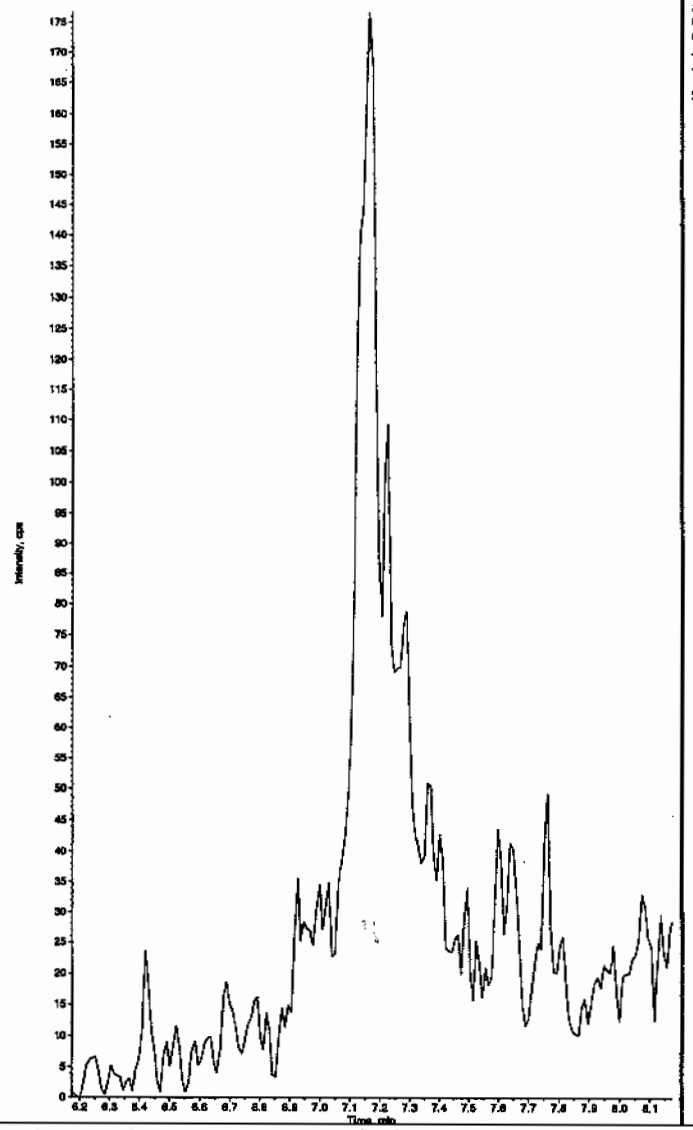
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

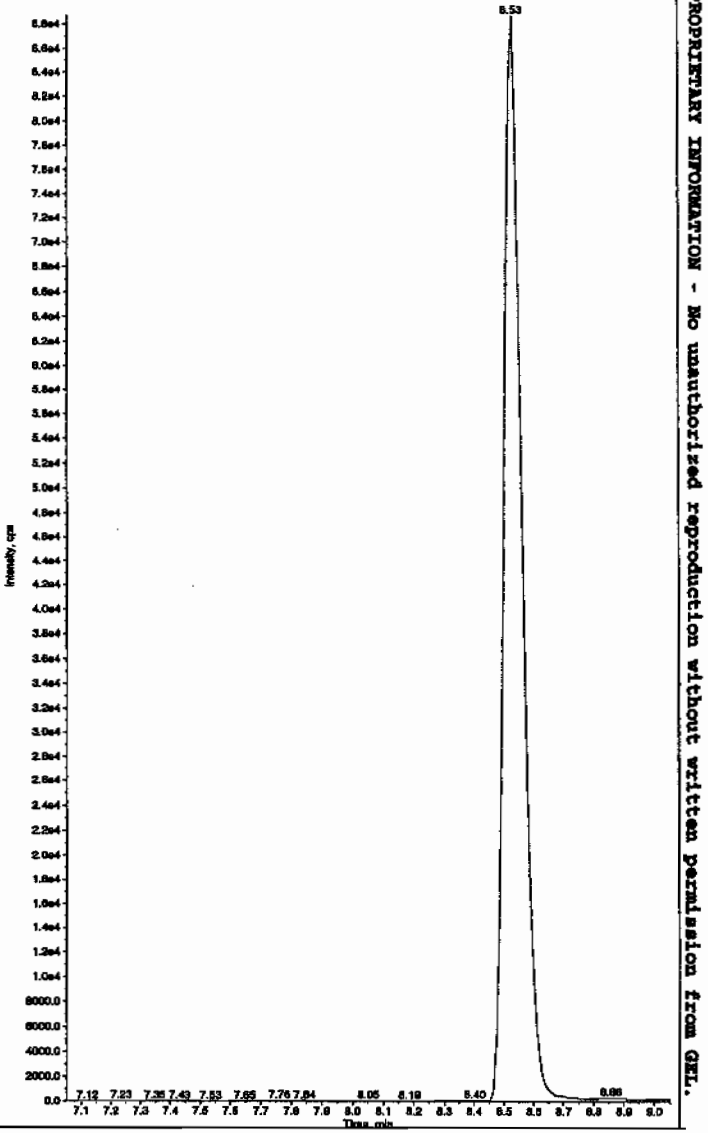
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Rev 2/15/10

Sample Name: "245686005" Sample ID: "947078[2]LER" File: "EXS02130023.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:58:20 PM
Modified: No



Sample Name: "245686005" Sample ID: "947078[2]LER" File: "EXS02130023.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:58:20 PM
Modified: Yes



Hmm 02/16/10

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

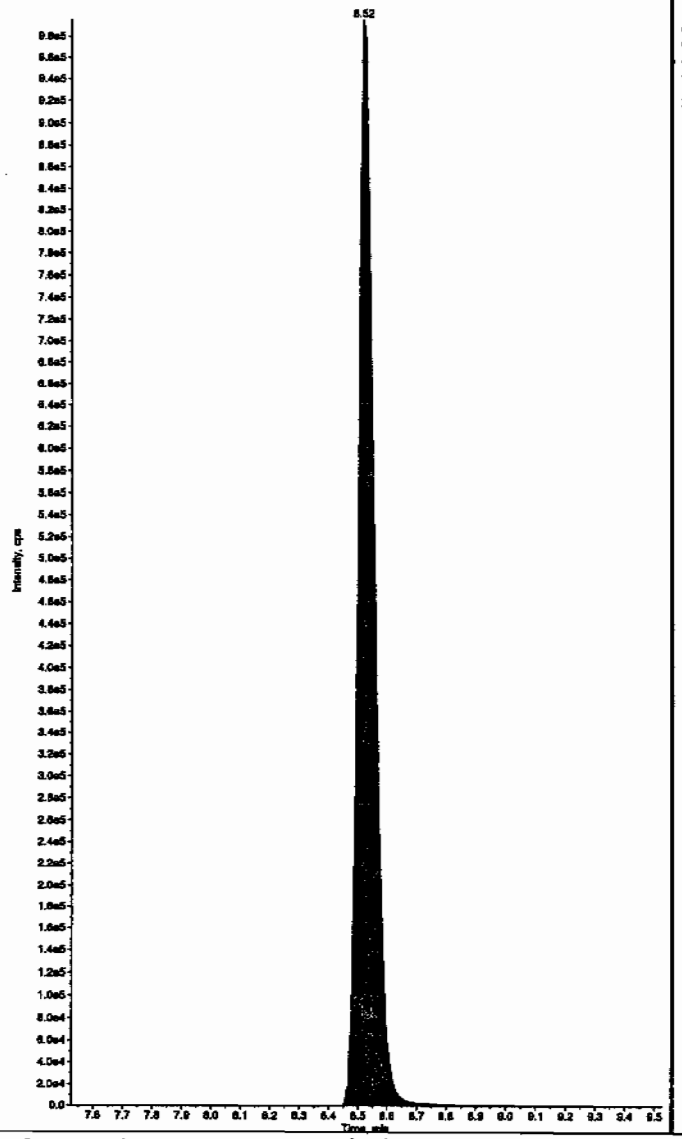
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686005" Sample ID: "947078|2|LER" File: "EXS02130023.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 337. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:58:20 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: 8.53 min
Use Relative RT: No

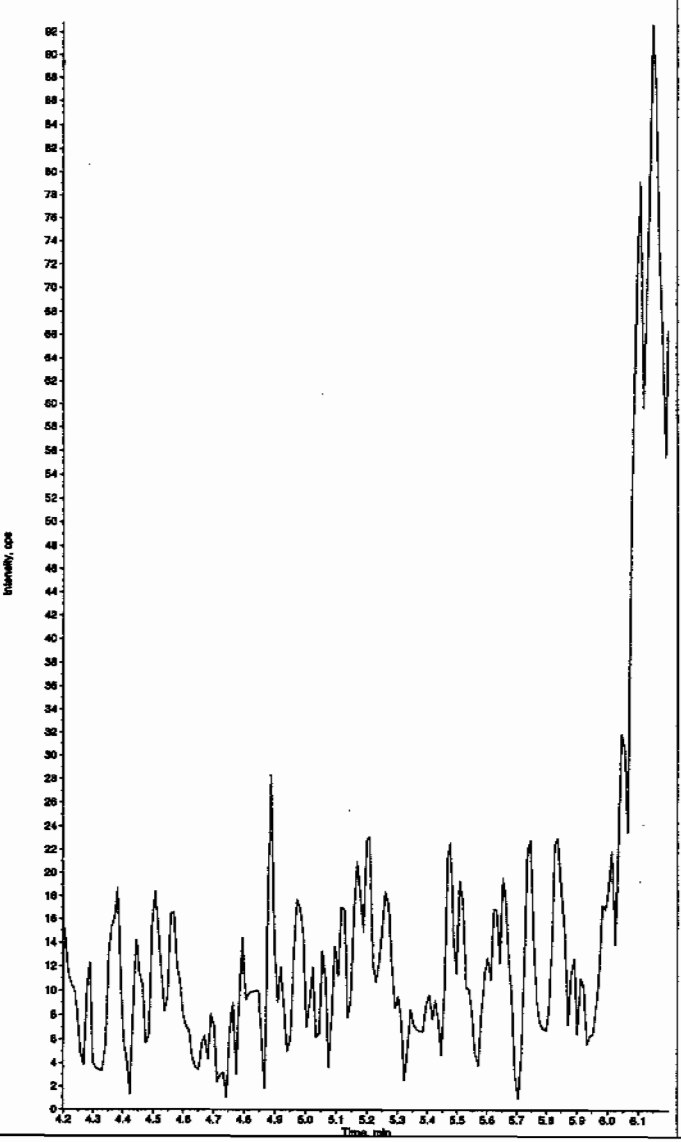
Int. Type: Valley
Retention Time: 8.52 min
Area: 3.96e+006 counts
Height: 995820.557 cps
Start Time: 8.38 min
End Time: 8.89 min



Sample Name: "245686005" Sample ID: "947078|2|LER" File: "EXS02130023.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:58:20 PM

Modified: No



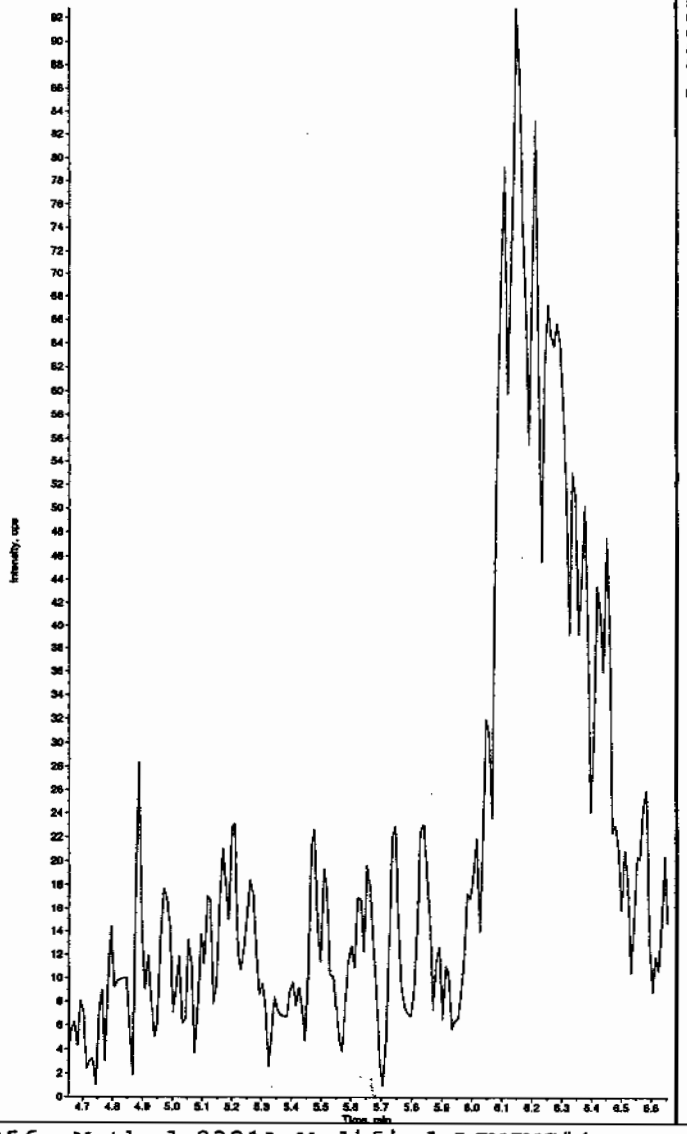
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

Sample Name: "245686005" Sample ID: "947078[2]LER" File: "EXS02130023.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:58:20 PM

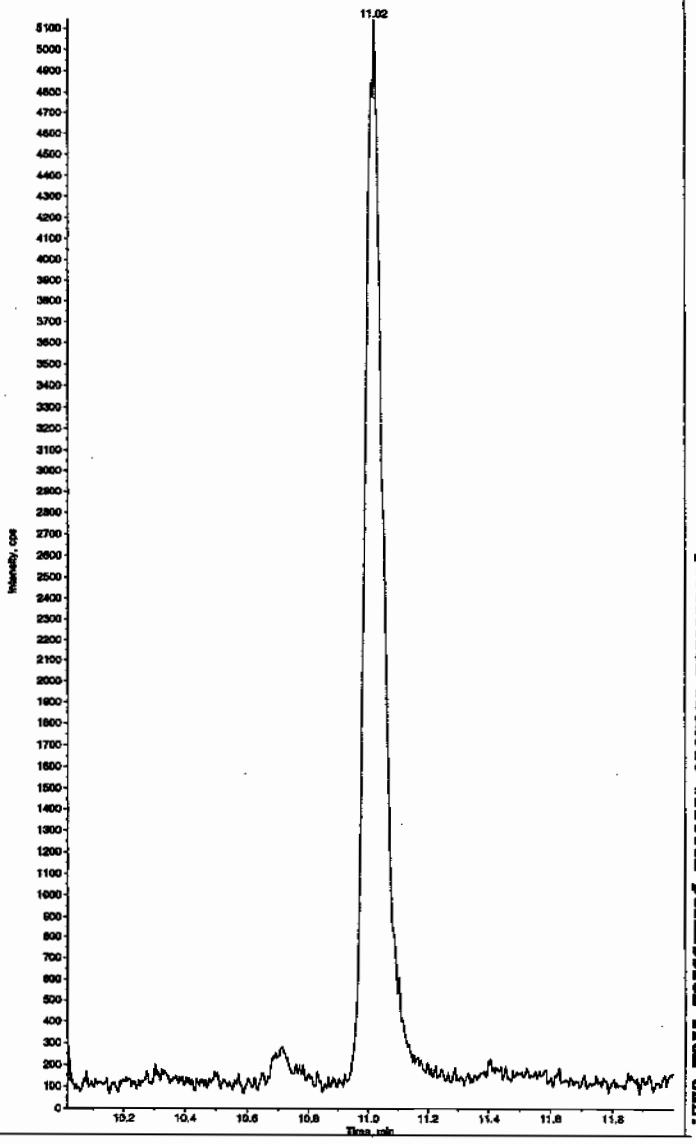
Modified: No



Sample Name: "245686005" Sample ID: "947078[2]LER" File: "EXS02130023.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 3:58:20 PM

Modified: No



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7933

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208195a

Date Analyzed: 12-FEB-10 14:10

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

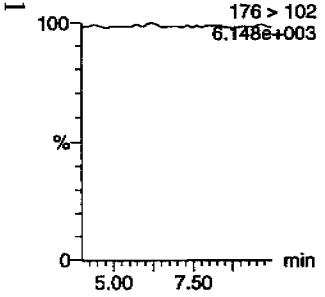
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208195a
Date: 12-Feb-2010
Time: 14:10:25
ID: 245686006
Vial: 4:5,E

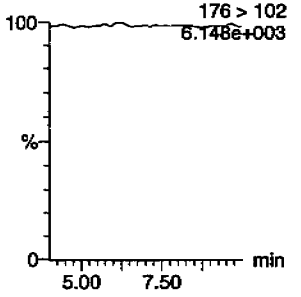
LANL / 947078 / Soil / 2 /

MMP 2/13/10

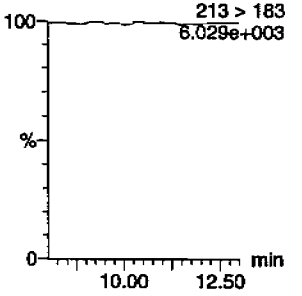
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.148e+003



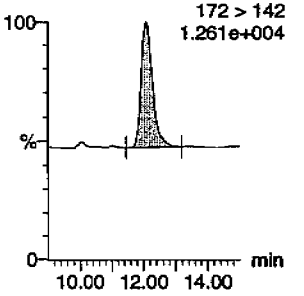
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.148e+003



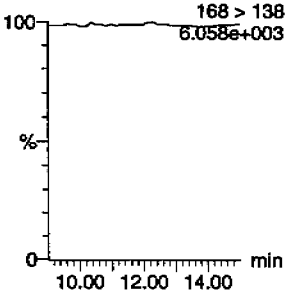
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.029e+003



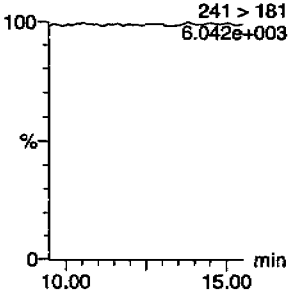
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.261e+004



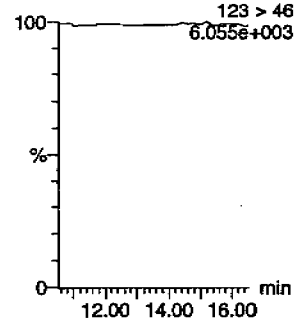
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.058e+003



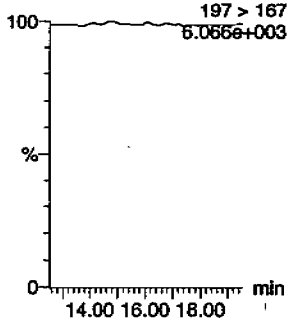
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.042e+003



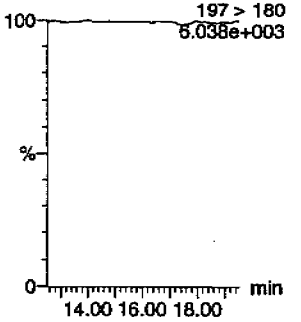
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.055e+003



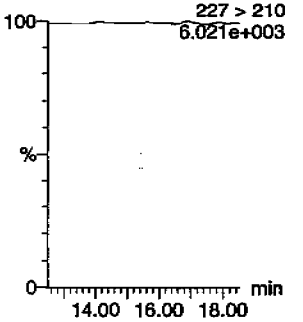
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.066e+003



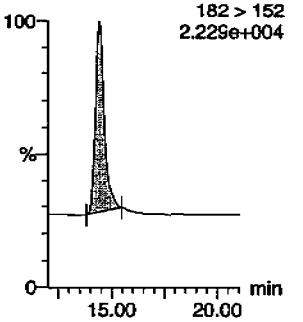
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.038e+003



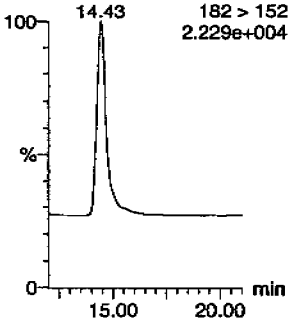
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.021e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.229e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.43
182 > 152
2.229e+004

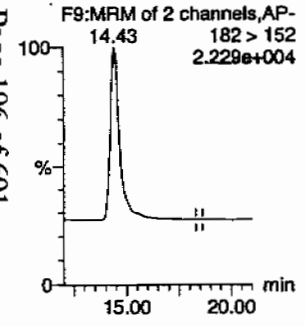


HMW 02/13/10

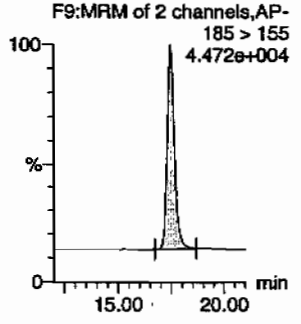
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

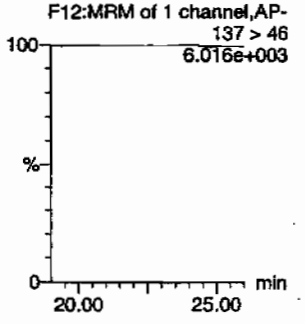
24-dinitrotoluene



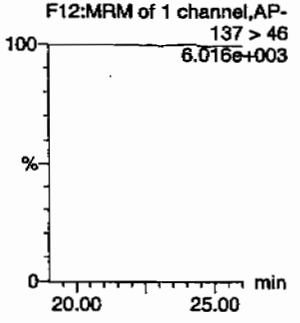
26-dinitrotoluene-d3



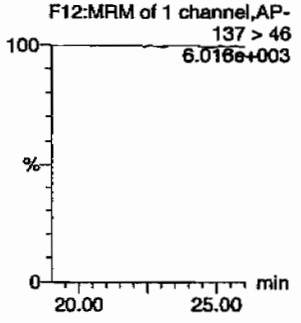
2-Nitrotoluene



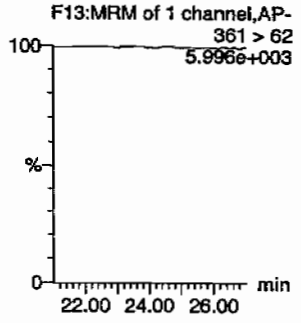
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686006	HMX	176 > 102			2714.267									
245686006	RDX	176 > 102			2714.267									
245686006	135-Trinitrobenzene	213 > 183			2714.267									
245686006	13-Dinitrobenzene-d4	172 > 142	12.07	2714.267		2714.267	2714.267	bb			422.1815	84.4	-15.6	316.6
245686006	13-Dinitrobenzene	168 > 138			2714.267									
245686006	Tetryl	241 > 181			2714.267									
245686006	Nitrobenzene	123 > 46			2714.267									
245686006	4-Amino-26-dinitrotoluene	197 > 167			15636.625									
245686006	2-Amino-46-dinitrotoluene	197 > 180			15636.625									
245686006	246-Trinitrotoluene	227 > 210			15636.625									
245686006	34-dinitrotoluene	182 > 152	14.43	7791.336	15636.625	7791.336	249.137	bb			276.8218	110.7	10.7	482.7
245686006	26-dinitrotoluene	182 > 152			15636.625									
245686006	24-dinitrotoluene	182 > 152			15636.625			MM-	13-Feb-10	09:28:14				
245686006	26-dinitrotoluene-d3	185 > 155	17.47	15636.625		15636.625	15636.625	bb			423.5345	84.7	-15.3	1097.3
245686006	2-Nitrotoluene	137 > 46			15636.625									
245686006	4-Nitrotoluene	137 > 46			15636.625									
245686006	3-Nitrotoluene	137 > 46			15636.625									
245686006	PETN	361 > 62			15636.625									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7933

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130027.wiff

Date Analyzed: 13-FEB-10 17:01

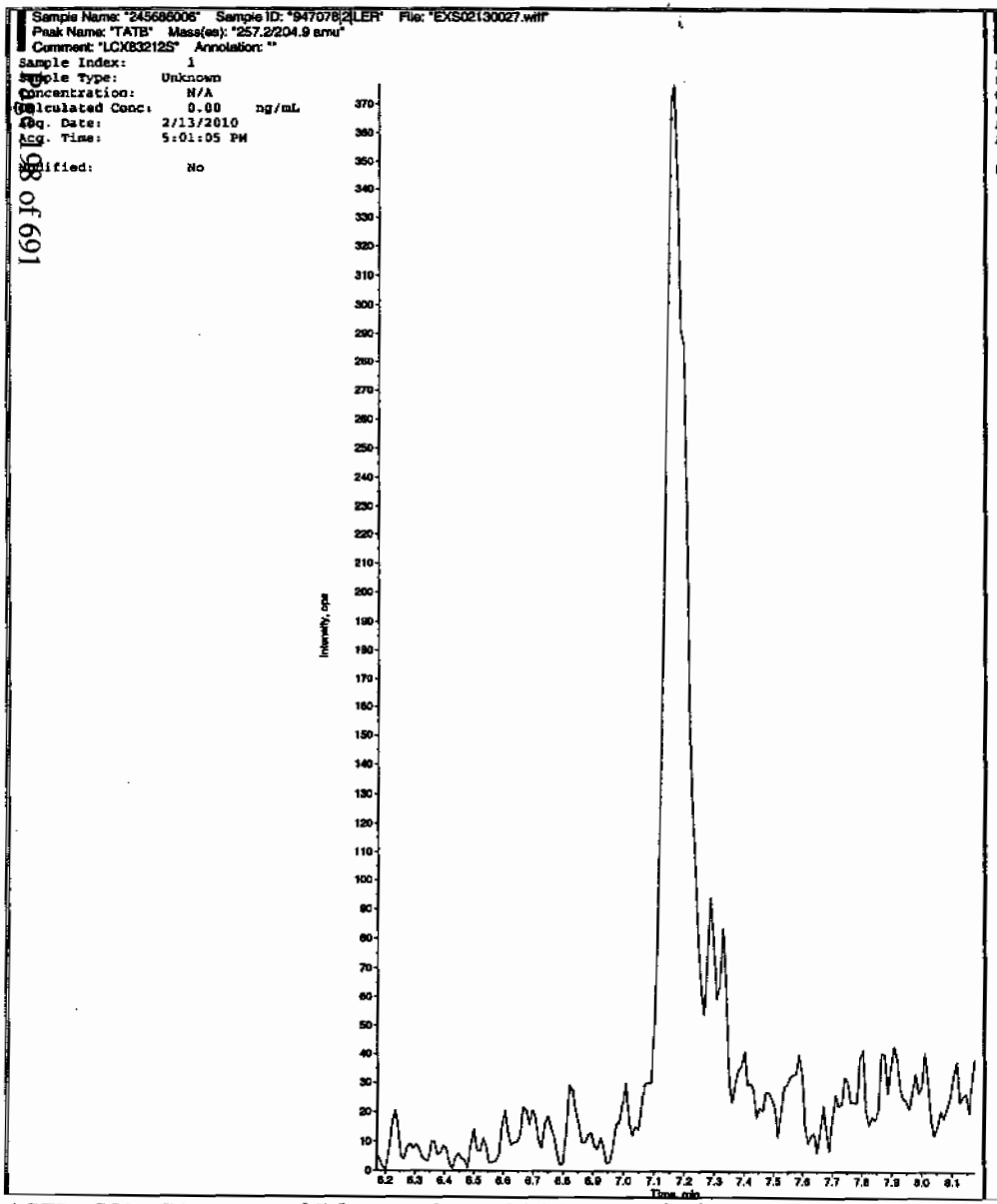
Units: ug/kg

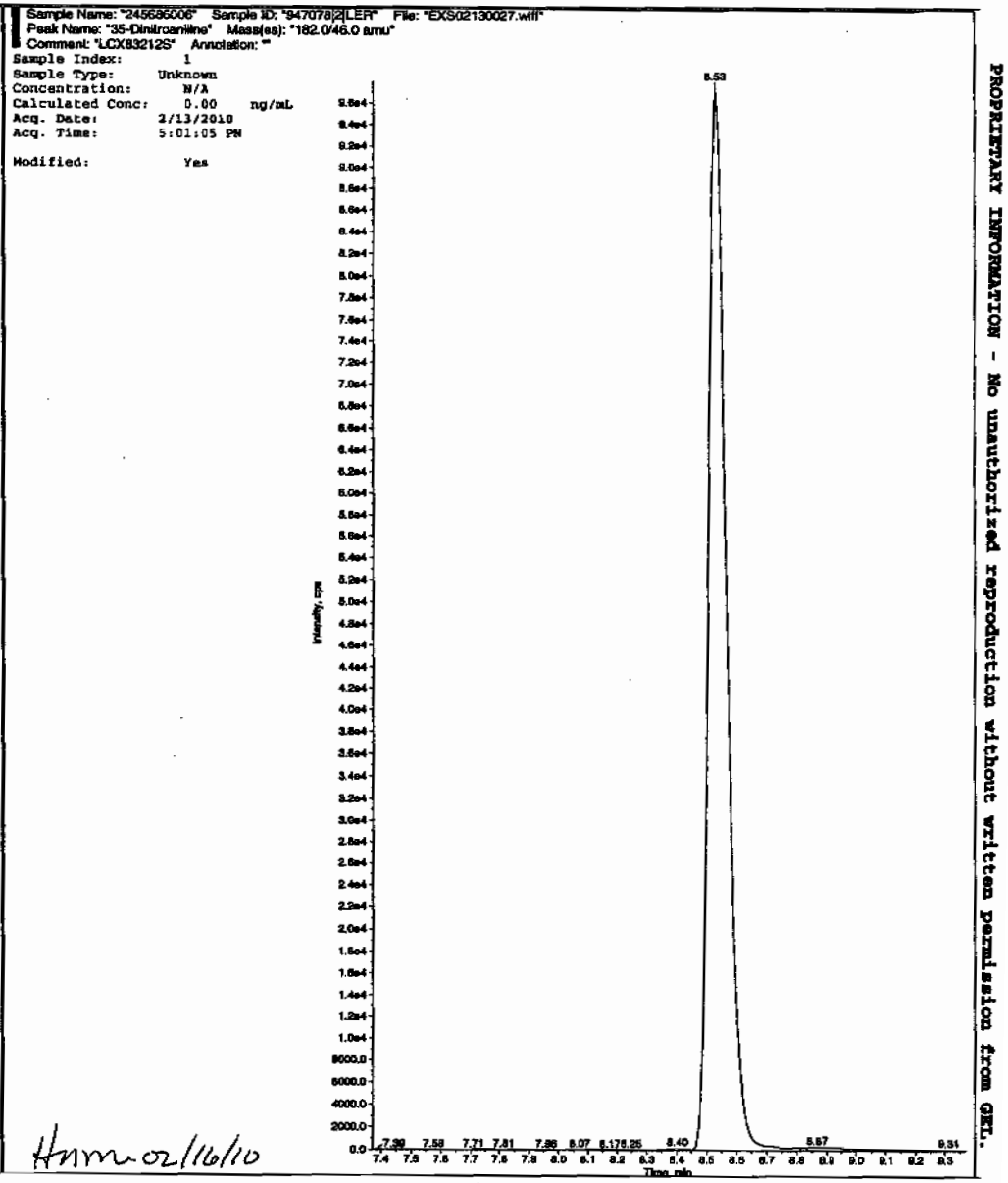
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dan 2/15/10





Hmm 02/16/10

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

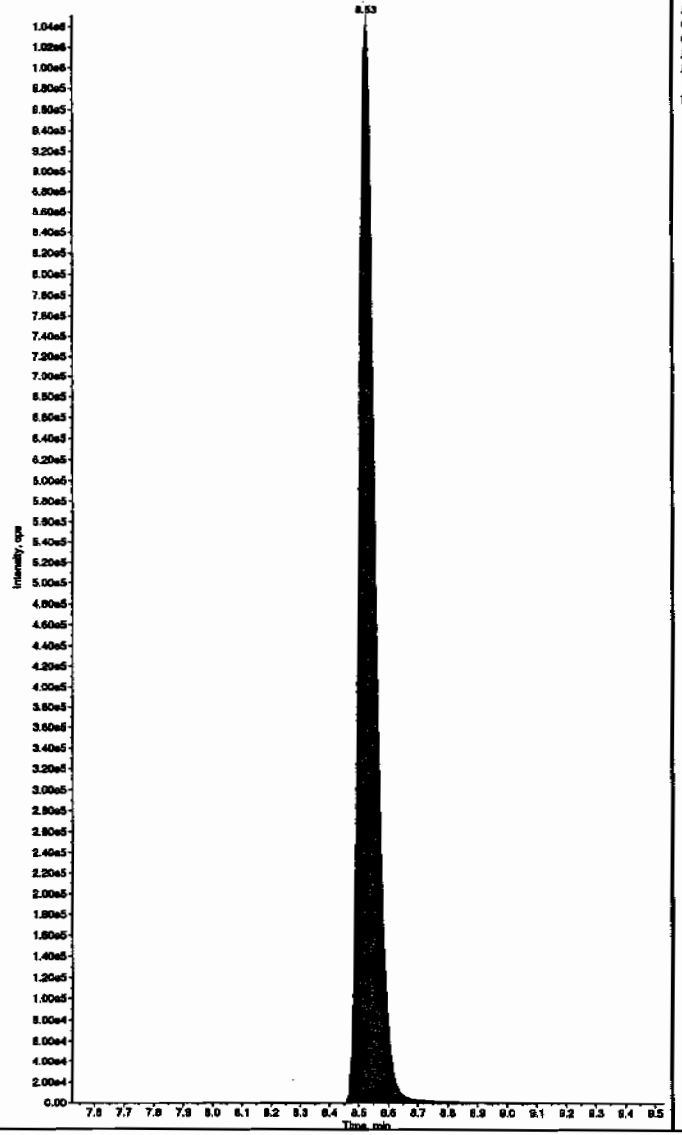
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686006" Sample ID: "947078[2]LER" File: "EXS02130027.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 356. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:01:05 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: 8.53 min
Use Relative RT: No

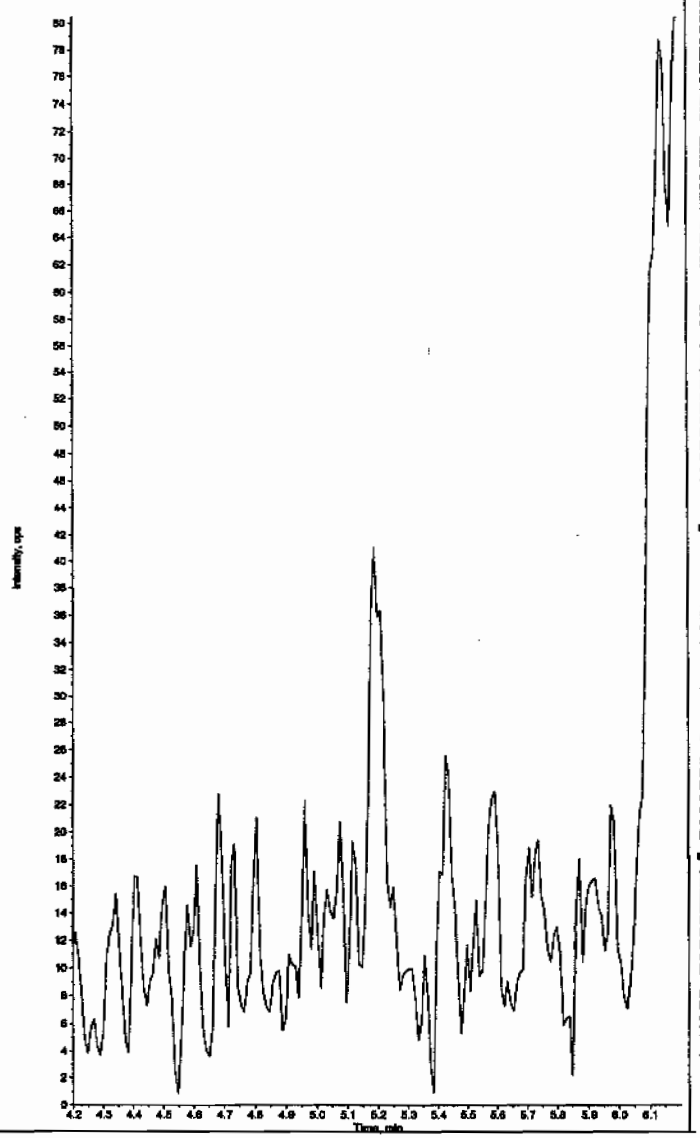
Int. Type: Valley
Retention Time: 8.53 min
Area: 4.18e+006 counts
Height: 1051453.491 cps
Start Time: 8.35 min
End Time: 9.01 min



Sample Name: "245686006" Sample ID: "947078[2]LER" File: "EXS02130027.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/48.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:01:05 PM

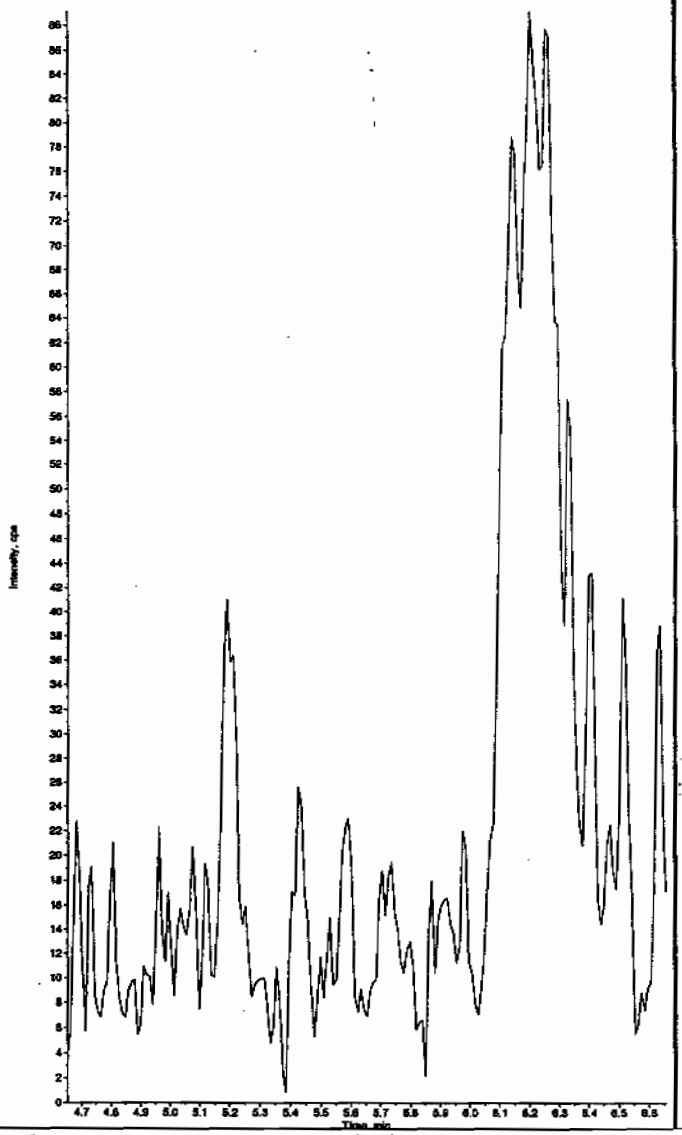
Modified: No



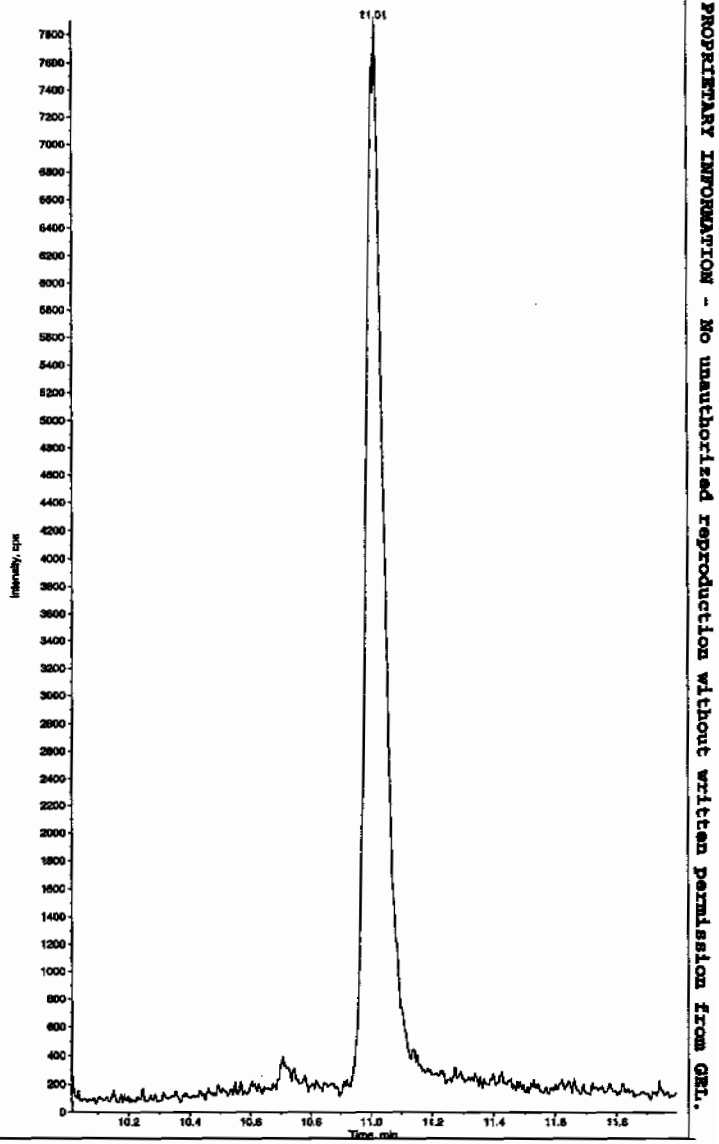
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

Sample Name: "245686006" Sample ID: "847078[2]LER" File: "EXS02130027.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:01:05 PM
Modified: No



Sample Name: "245686006" Sample ID: "847078[2]LER" File: "EXS02130027.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:01:05 PM
Modified: No



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7939

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208196a

Date Analyzed: 12-FEB-10 14:40

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 =

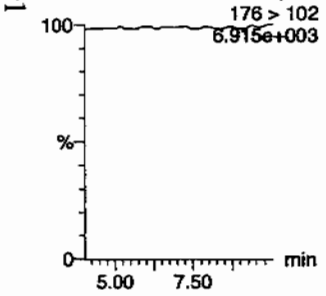
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208196a
Date: 12-Feb-2010
Time: 14:40:01
ID: 245686007
Vial: 4:5,F

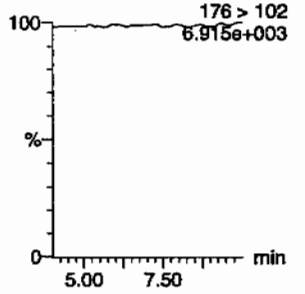
| LANL | 947078 | Solid | 21

MM 2/13/10

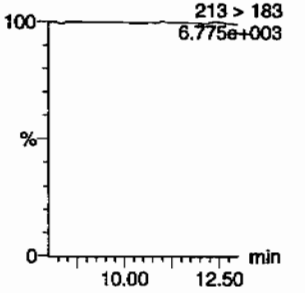
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.915e+003



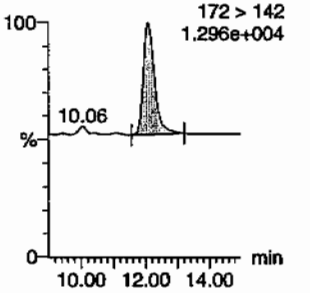
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.915e+003



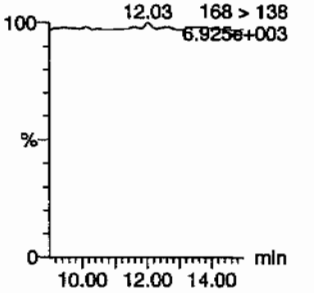
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.775e+003



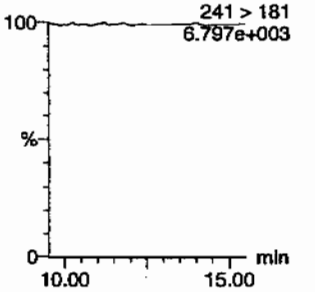
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.296e+004



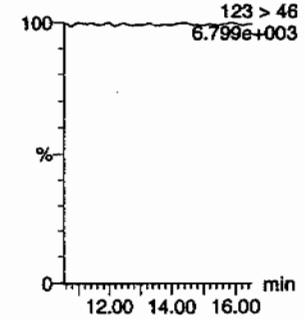
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
12.03
168 > 138
6.925e+003



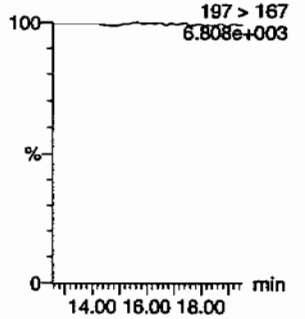
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.797e+003



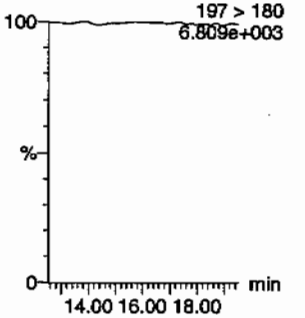
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.799e+003



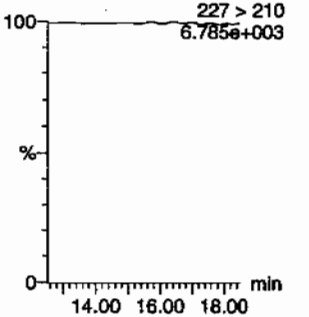
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.808e+003



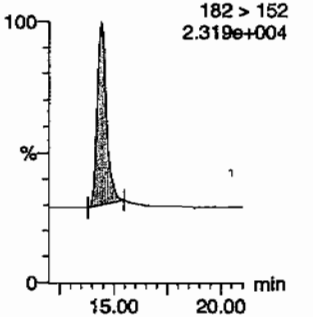
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.809e+003



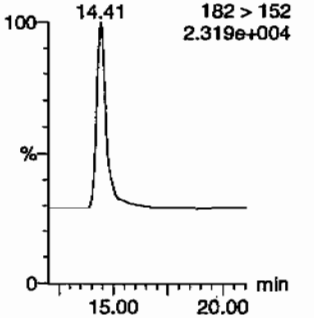
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.785e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.319e+004



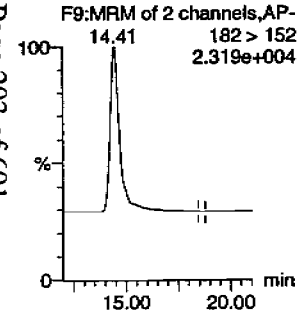
26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.41
182 > 152
2.319e+004



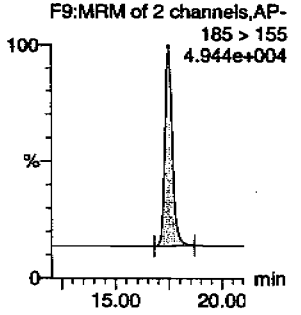
MM 02/13/10

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

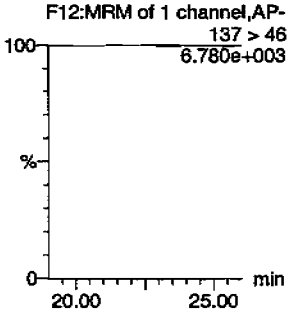
24-dinitrotoluene



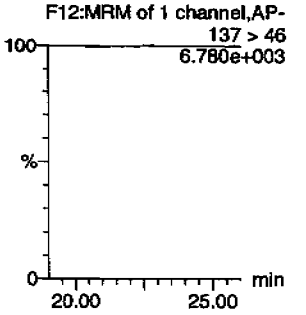
26-dinitrotoluene-d3



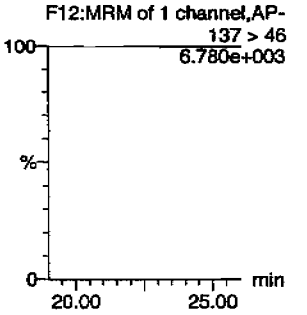
2-Nitrotoluene



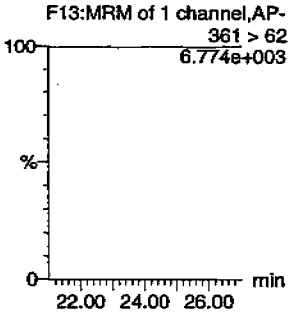
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686007	HMX	176 > 102			2567.924									
245686007	RDX	176 > 102			2567.924									
245686007	135-Trinitrobenzene	213 > 183			2567.924									
245686007	13-Dinitrobenzene-d4	172 > 142	12.06	2567.924		2567.924	2567.924	bb			399.4191	79.9	-20.1	240.8
245686007	13-Dinitrobenzene	168 > 138			2567.924									
245686007	Tetryl	241 > 181			2567.924									
245686007	Nitrobenzene	123 > 46			2567.924									
245686007	4-Amino-26-dinitrotoluene	197 > 167			17395.074									
245686007	2-Amino-46-dinitrotoluene	197 > 180			17395.074									
245686007	246-Trinitrotoluene	227 > 210			17395.074									
245686007	34-dinitrotoluene	182 > 152	14.41	7759.319	17395.074	7759.319	223.032	bb			247.8156	99.1	-0.9	546.9
245686007	26-dinitrotoluene	182 > 152			17395.074									
245686007	24-dinitrotoluene	182 > 152			17395.074			MM-	13-Feb-10	09:28:18				
245686007	26-dinitrotoluene-d3	185 > 155	17.48	17395.074		17395.074	17395.074	bb			471.1640	94.2	-5.8	1168.1
245686007	2-Nitrotoluene	137 > 46			17395.074									
245686007	4-Nitrotoluene	137 > 46			17395.074									
245686007	3-Nitrotoluene	137 > 46			17395.074									
245686007	PETN	361 > 62			17395.074									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7939

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130028.wiff

Date Analyzed: 13-FEB-10 17:16

Units: ug/kg

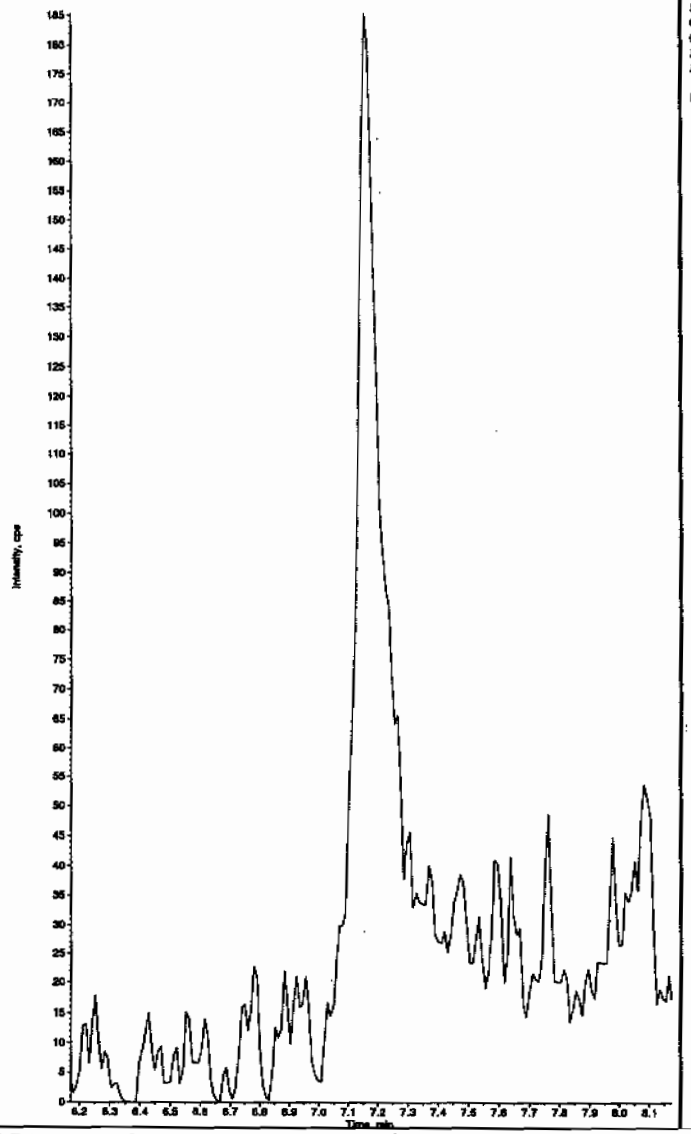
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

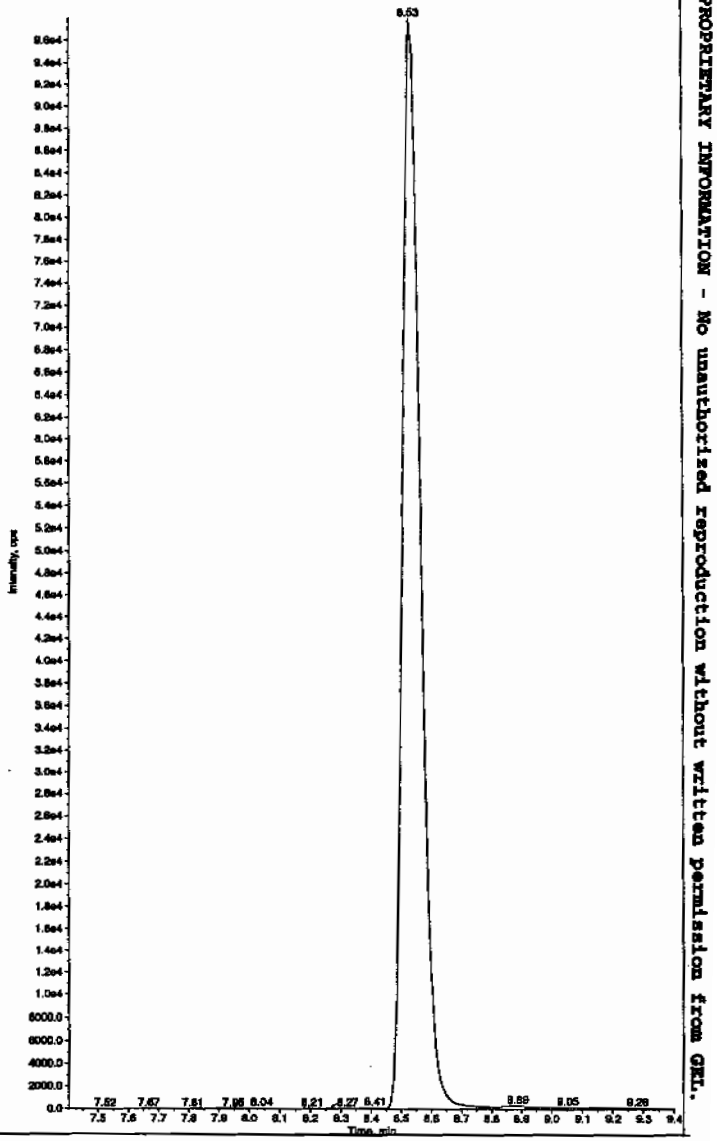
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Lan 2/15/10

Sample Name: "245686007" Sample ID: "947078|2|LER" File: "EXS02130028.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:16:48 PM
Modified: No



Sample Name: "245686007" Sample ID: "947078|2|LER" File: "EXS02130028.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:16:48 PM
Modified: No



Hmm 02/16/10

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

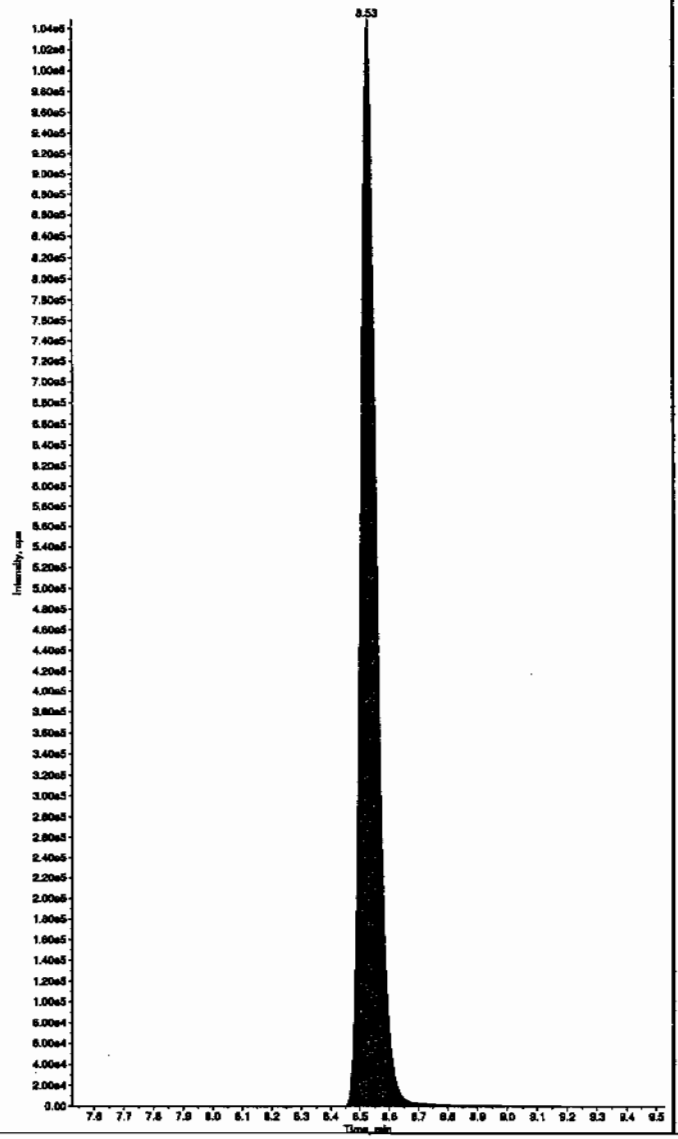
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686007" Sample ID: "947078[2]LER" File: "EXS02130028.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 349. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:16:48 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.53 min
Use Relative RT: No

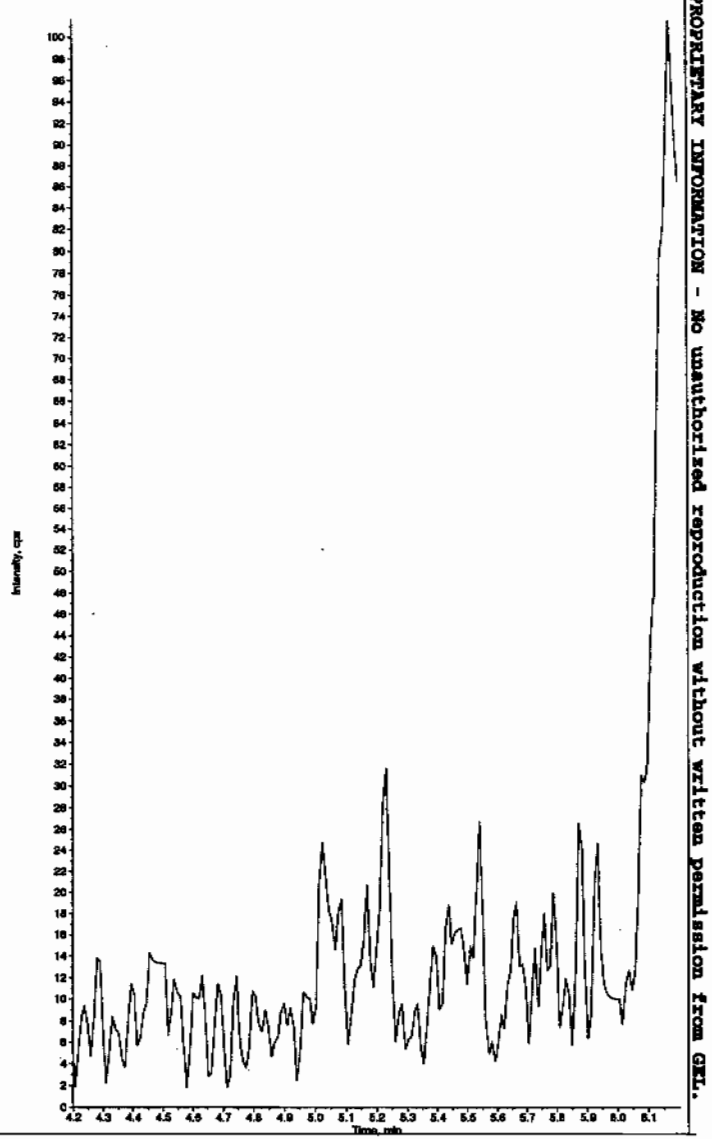
Int. Type: Valley
Retention Time: 8.53 min
Area: 4.10e+006 counts
Height: 1049275.513 cps
Start Time: 8.43 min
End Time: 8.94 min



Sample Name: "245686007" Sample ID: "947078[2]LER" File: "EXS02130028.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

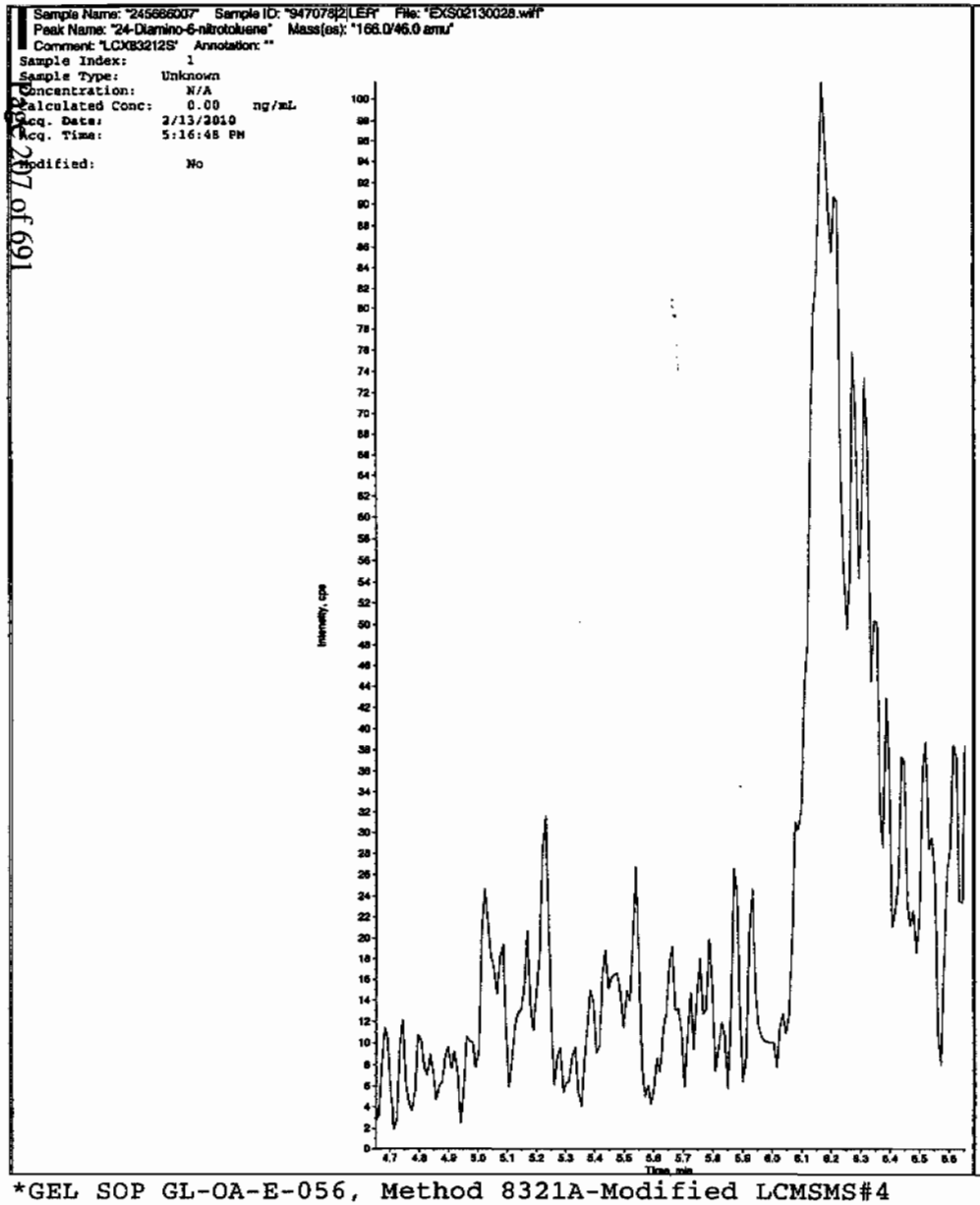
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:16:48 PM

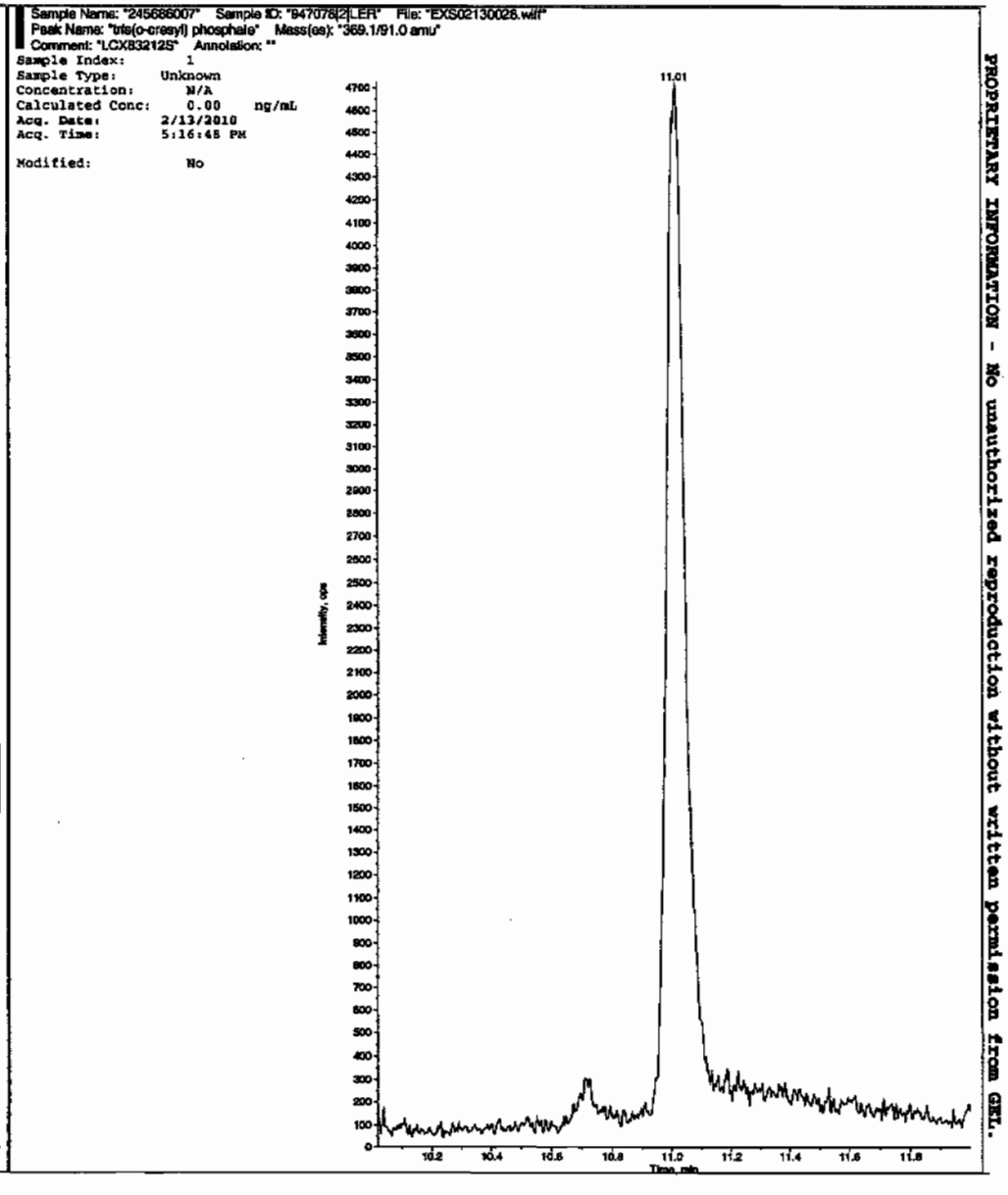
Modified: No



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

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





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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7936

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208197a

Date Analyzed: 12-FEB-10 15:09

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

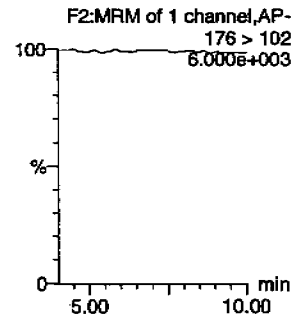
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208197a
Date: 12-Feb-2010
Time: 15:09:29
ID: 245686008
Vial: 4:6,A

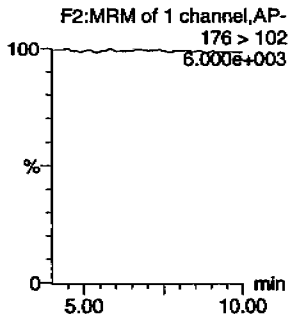
| LANL | 947078 | Soil | 21

LWP 2/13/10

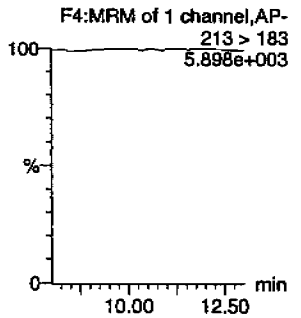
HMX



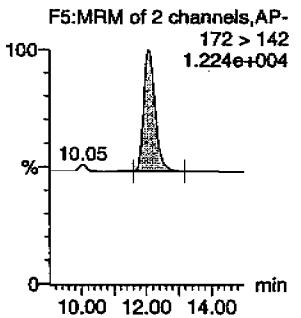
RDX



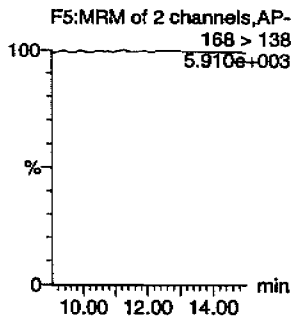
135-Trinitrobenzene



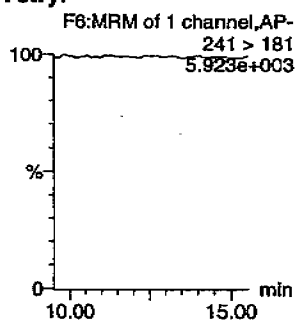
13-Dinitrobenzene-d4



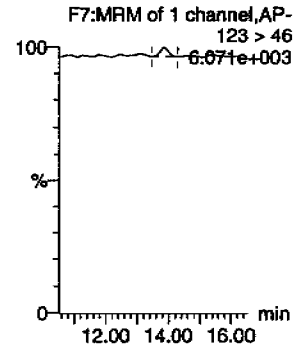
13-Dinitrobenzene



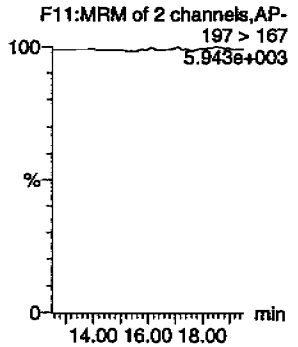
Tetryl



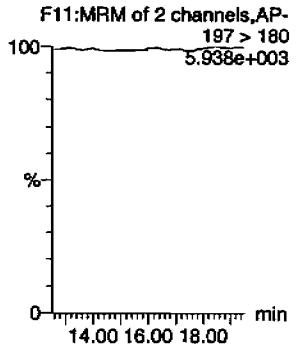
Nitrobenzene



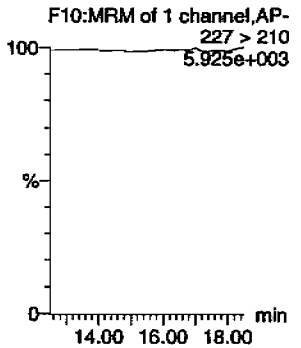
4-Amino-26-dinitrotoluene



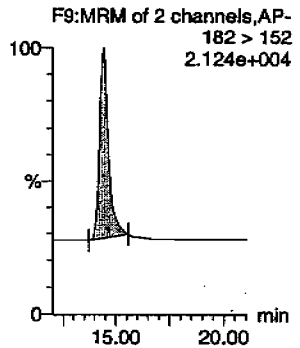
2-Amino-46-dinitrotoluene



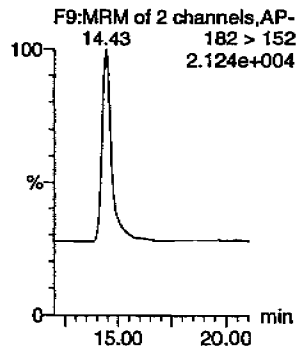
246-Trinitrotoluene



34-dinitrotoluene



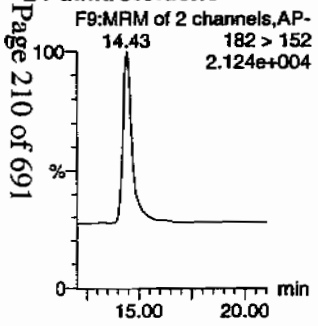
26-dinitrotoluene



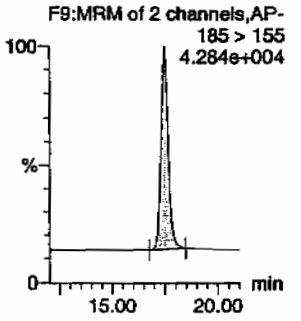
HMW 02/13/10

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

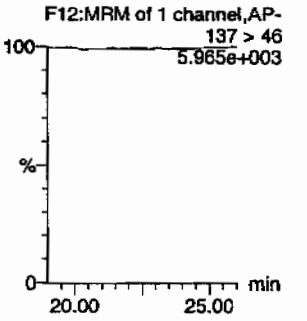
24-dinitrotoluene



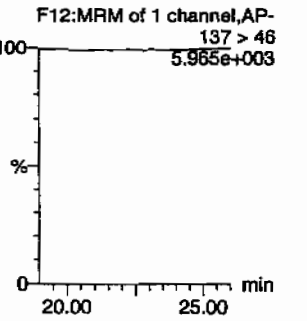
26-dinitrotoluene-d3



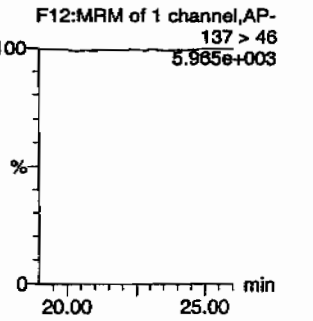
2-Nitrotoluene



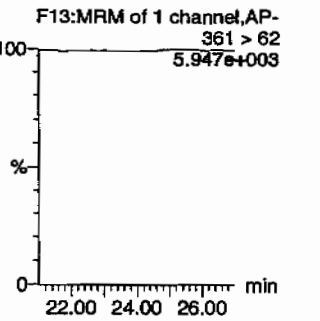
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686008	HMX	176 > 102			2577.593									
245686008	RDX	176 > 102			2577.593									
245686008	135-Trinitrobenzene	213 > 183			2577.593									
245686008	13-Dinitrobenzene-d4	172 > 142	12.10	2577.593		2577.593	2577.593	bb			400.9230	80.2	-19.8	173.7
245686008	13-Dinitrobenzene	168 > 138			2577.593									
245686008	Tetryl	241 > 181			2577.593									
245686008	Nitrobenzene	123 > 46			2577.593			MM-	13-Feb-10	09:18:46				
245686008	4-Amino-26-dinitrotoluene	197 > 167			14931.843									
245686008	2-Amino-46-dinitrotoluene	197 > 180			14931.843									
245686008	246-Trinitrotoluene	227 > 210			14931.843									
245686008	34-dinitrotoluene	182 > 152	14.43	7473.735	14931.843	7473.735	250.262	bb			278.0709	111.2	11.2	537.5
245686008	26-dinitrotoluene	182 > 152			14931.843									
245686008	24-dinitrotoluene	182 > 152			14931.843									
245686008	26-dinitrotoluene-d3	185 > 155	17.47	14931.843		14931.843	14931.843	bb			404.4448	80.9	-19.1	605.6
245686008	2-Nitrotoluene	137 > 46			14931.843									
245686008	4-Nitrotoluene	137 > 46			14931.843									
245686008	3-Nitrotoluene	137 > 46			14931.843									
245686008	PETN	361 > 62			14931.843									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7936

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130029.wiff

Date Analyzed: 13-FEB-10 17:32

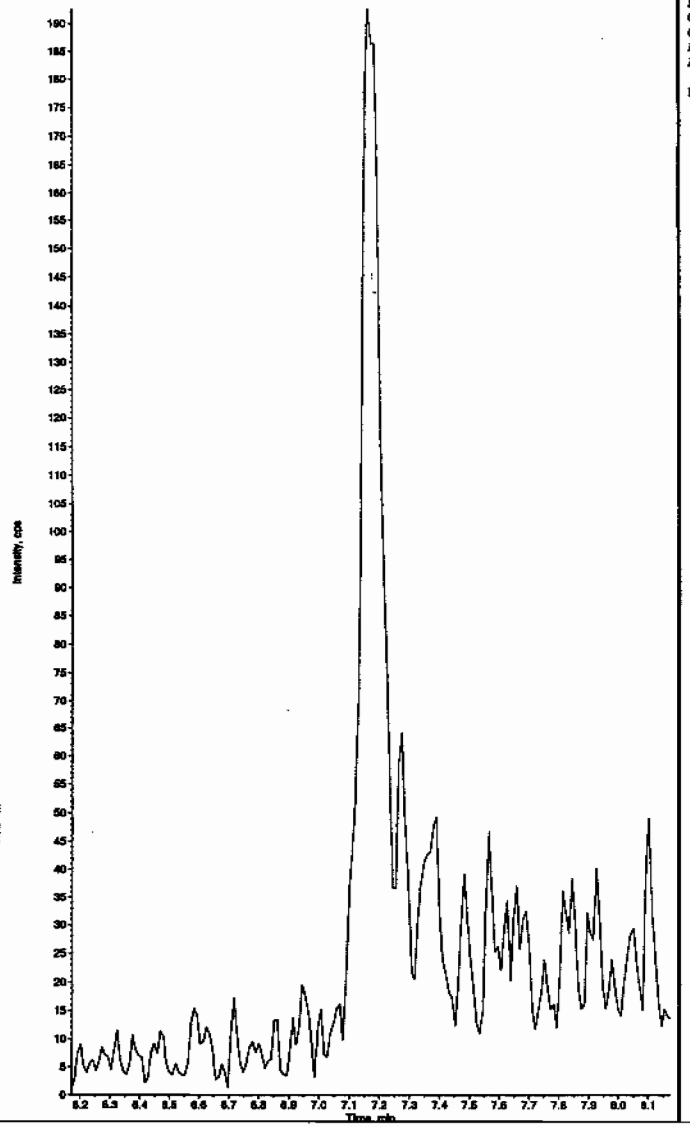
Units: ug/kg

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

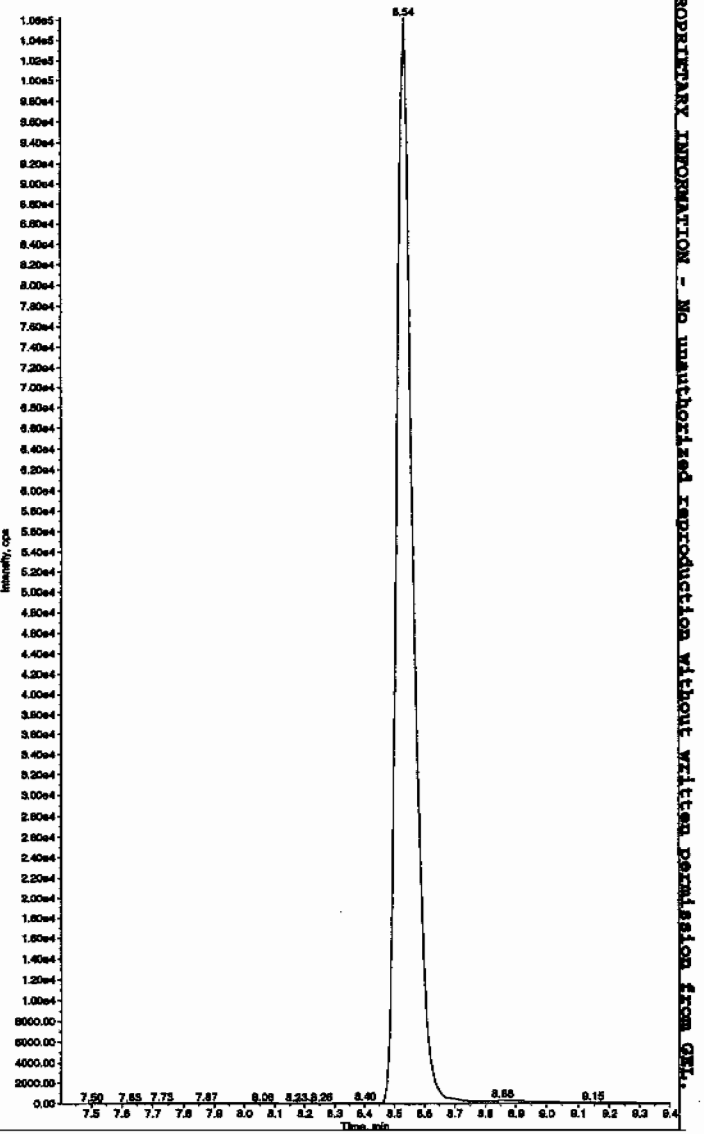
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Sample Name: "245686008" Sample ID: "947078[2]LER" File: "EXS02130029.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:32:30 PM
Modified: No



Sample Name: "245686008" Sample ID: "947078[2]LER" File: "EXS02130029.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:32:30 PM
Modified: No



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

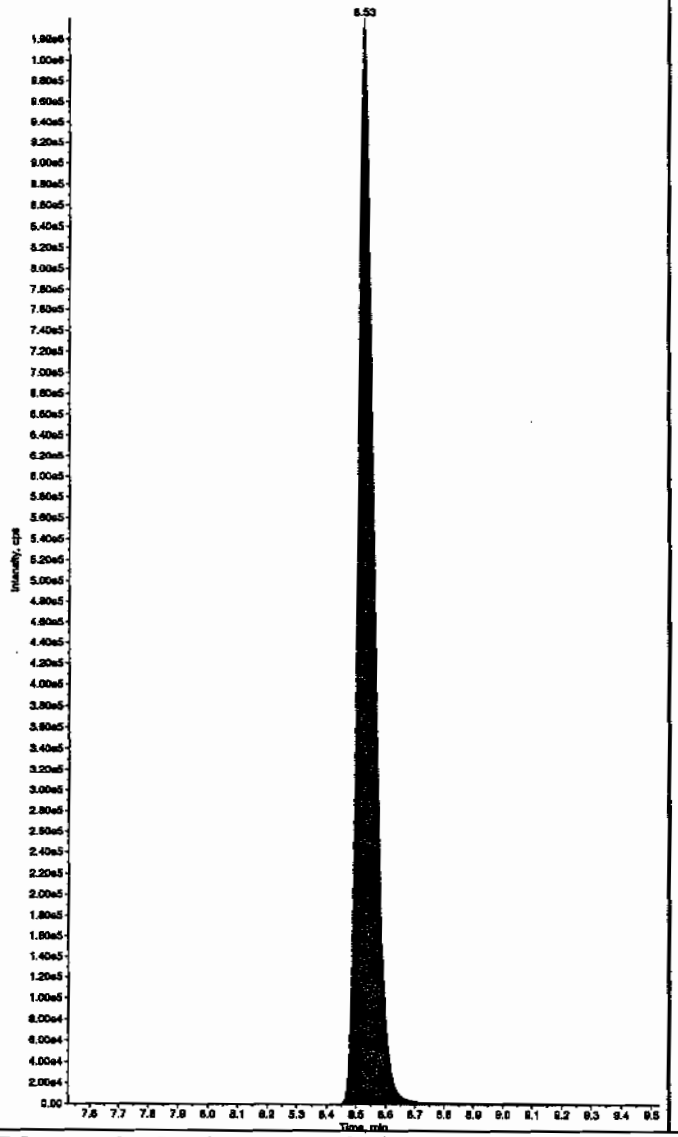
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686008" Sample ID: "947078|2|LER" File: "EXS02130029.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCXB3212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 343. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:32:30 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: 8.53 min
Use Relative RT: No

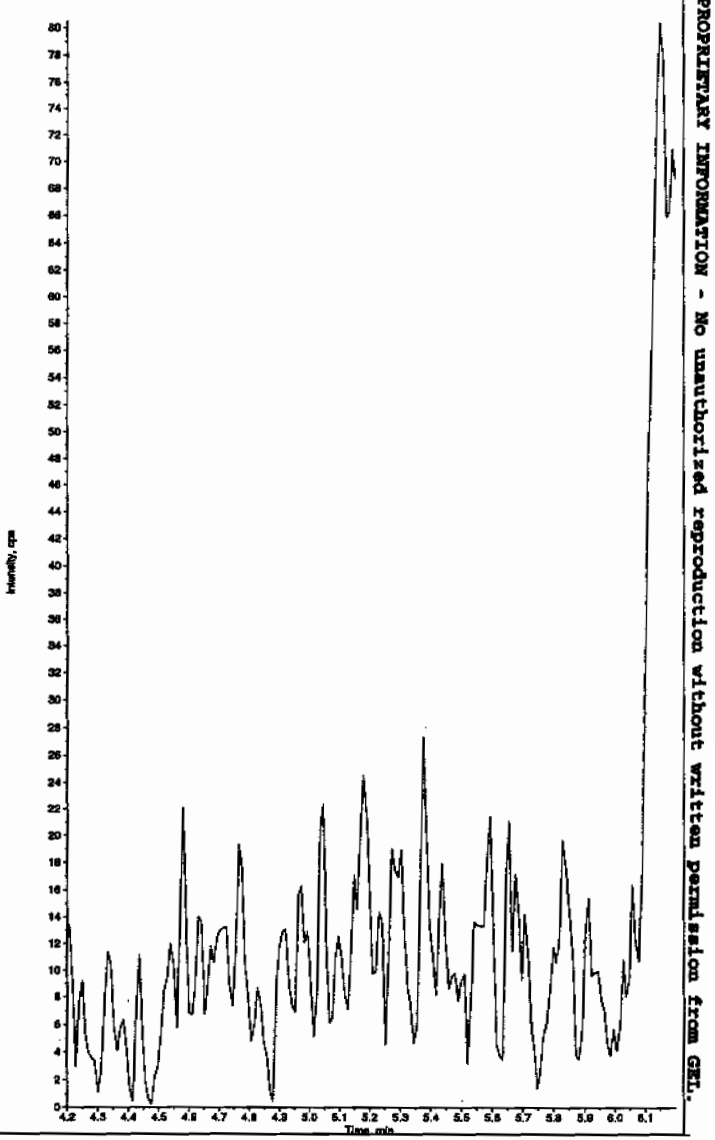
Int. Type: Valley
Retention Time: 8.53 min
Area: 4.03e+006 counts
Height: 1039825.317 cps
Start Time: 8.42 min
End Time: 8.99 min



Sample Name: "245686008" Sample ID: "947078|2|LER" File: "EXS02130029.wiff"
Peak Name: "2B-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCXB3212S" Annotation: ""

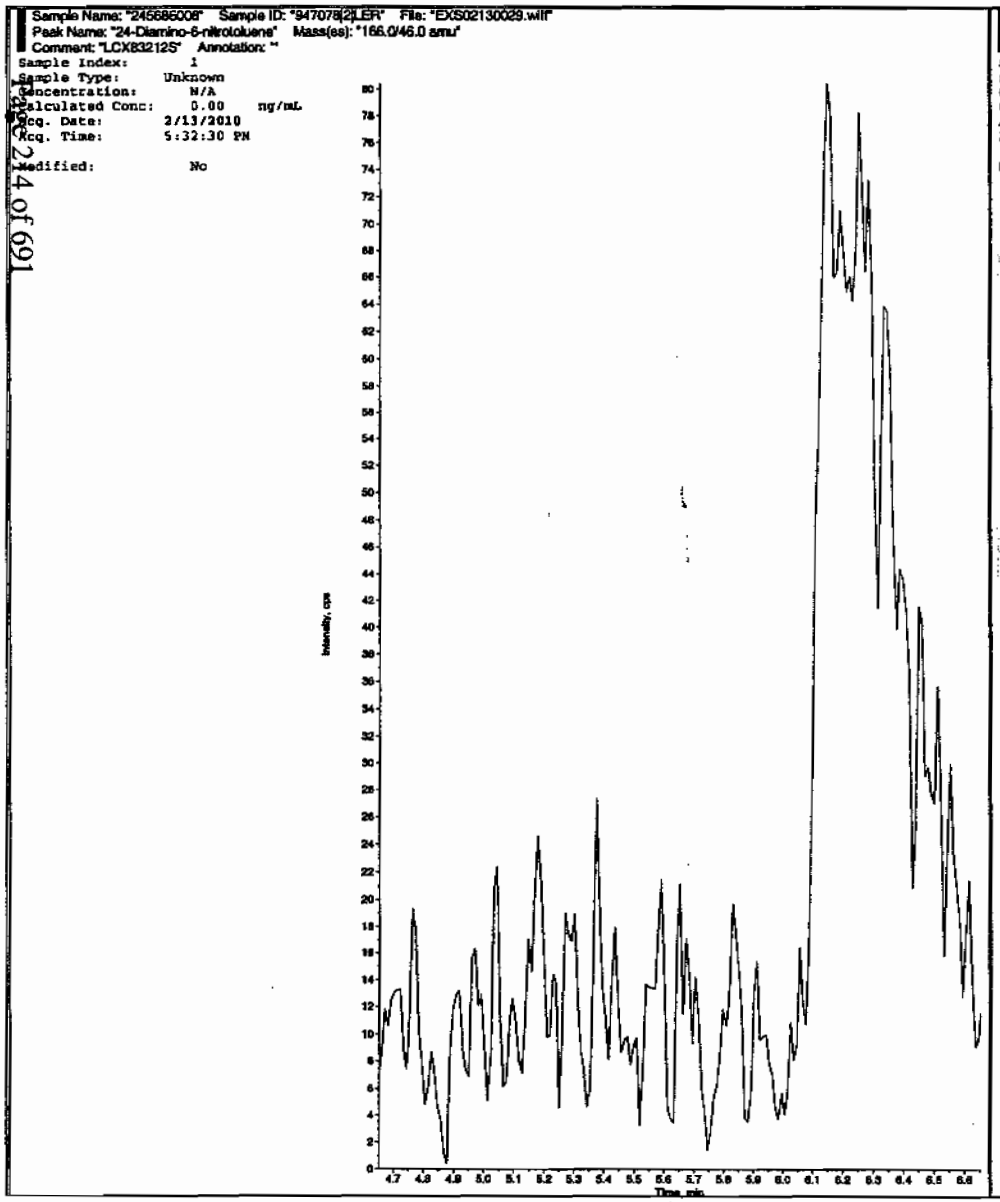
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:32:30 PM

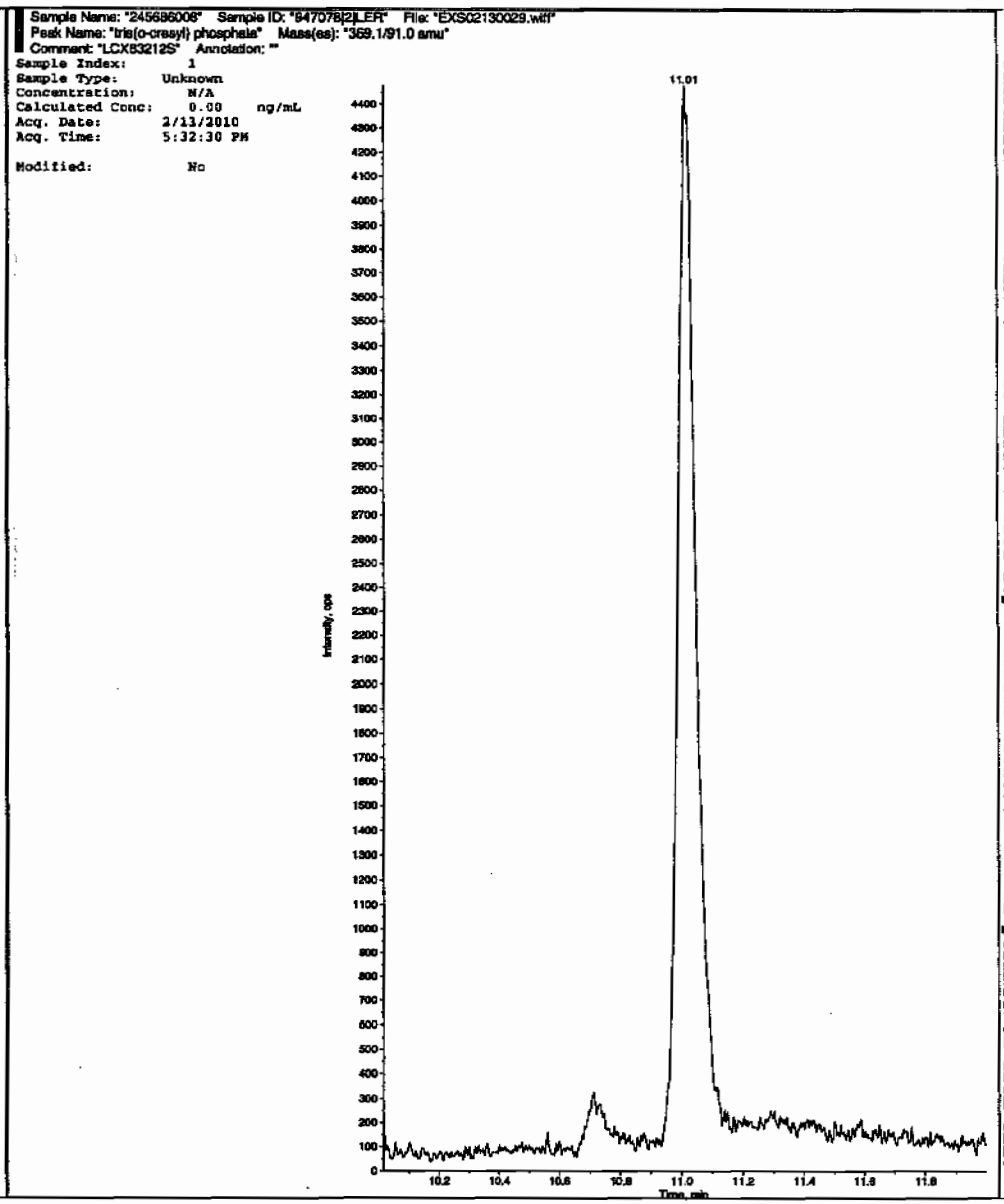
Modified: No



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

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





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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7935

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208198a

Date Analyzed: 12-FEB-10 15:38

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	576	
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 =

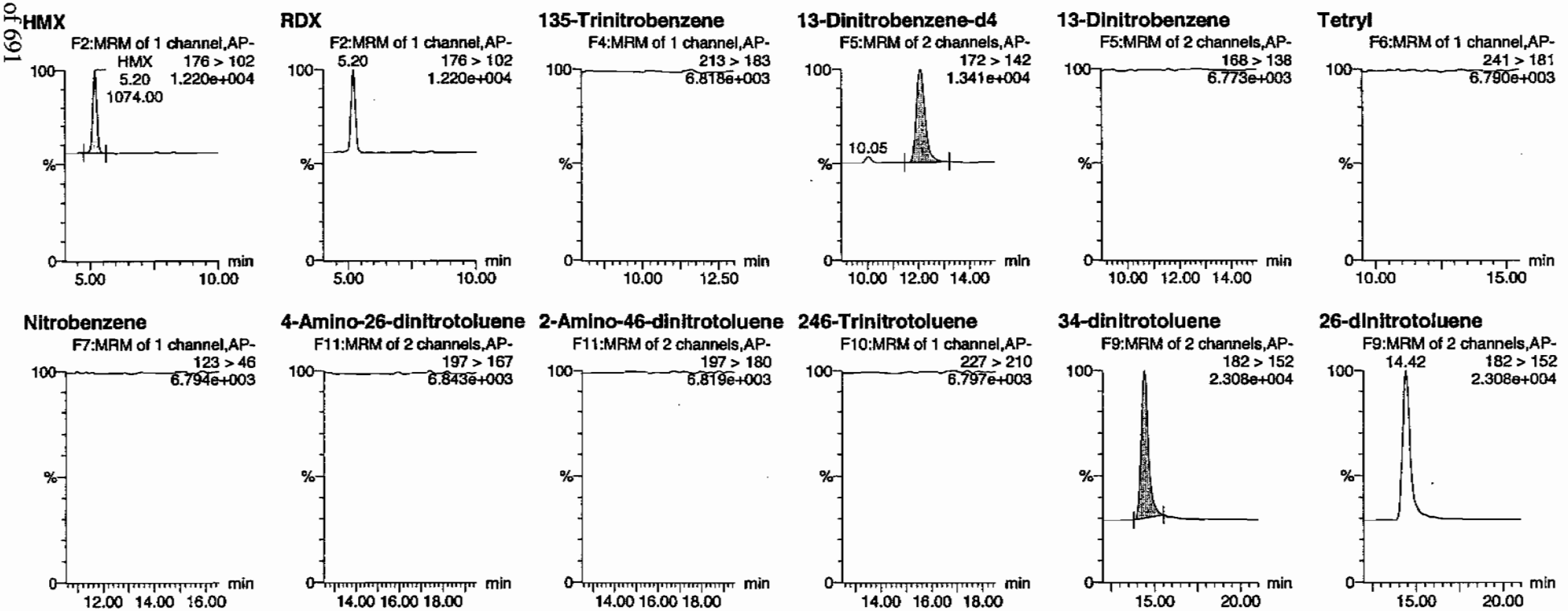
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208198a
Date: 12-Feb-2010
Time: 15:38:59
ID: 245686009
Vial: 4:6,B

| LANL | 947078 | Soles | 2 |

MAP 2/13/10

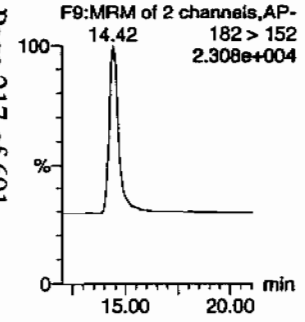


HMN 02/13/10

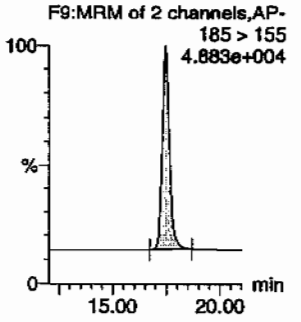
Page 216 of 691

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

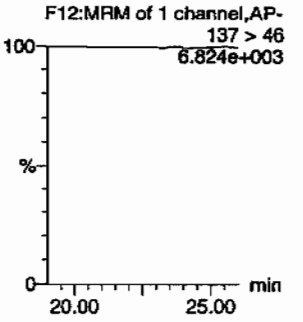
24-dinitrotoluene



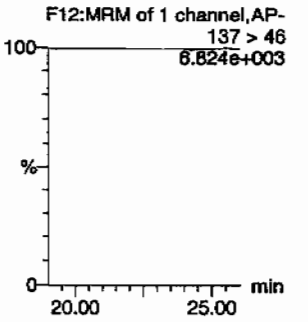
26-dinitrotoluene-d3



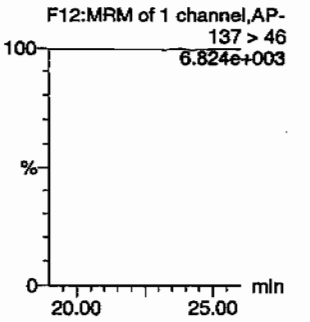
2-Nitrotoluene



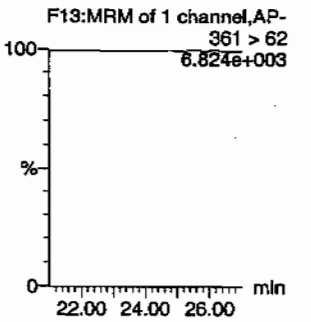
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	mg/mL	%Rec	%Dev	S/N
245686009	HMX	176 > 102	5.20	1074.001	2683.224	1074.001	200.133	bb			57.6285			220.0
245686009	RDX	176 > 102			2683.224									
245686009	135-Trinitrobenzene	213 > 183			2683.224									
245686009	13-Dinitrobenzene-d4	172 > 142	12.07	2683.224		2683.224	2683.224	bb			417.3530	83.5	-16.5	315.8
245686009	13-Dinitrobenzene	168 > 138			2683.224									
245686009	Tetryl	241 > 181			2683.224									
245686009	Nitrobenzene	123 > 46			2683.224									
245686009	4-Amino-26-dinitrotoluene	197 > 167			16712.588									
245686009	2-Amino-46-dinitrotoluene	197 > 180			16712.588									
245686009	246-Trinitrotoluene	227 > 210			16712.588									
245686009	34-dinitrotoluene	182 > 152	14.42	7731.390	16712.588	7731.390	231.304	bb			257.0071	102.8	2.8	408.1
245686009	26-dinitrotoluene	182 > 152			16712.588									
245686009	24-dinitrotoluene	182 > 152			16712.588									
245686009	26-dinitrotoluene-d3	185 > 155	17.47	16712.588		16712.588	16712.588	bb			452.6781	90.5	-9.5	1475.4
245686009	2-Nitrotoluene	137 > 46			16712.588									
245686009	4-Nitrotoluene	137 > 46			16712.588									
245686009	3-Nitrotoluene	137 > 46			16712.588									
245686009	PETN	361 > 62			16712.588									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7935

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130030.wiff

Date Analyzed: 13-FEB-10 17:48

Units: ug/kg

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

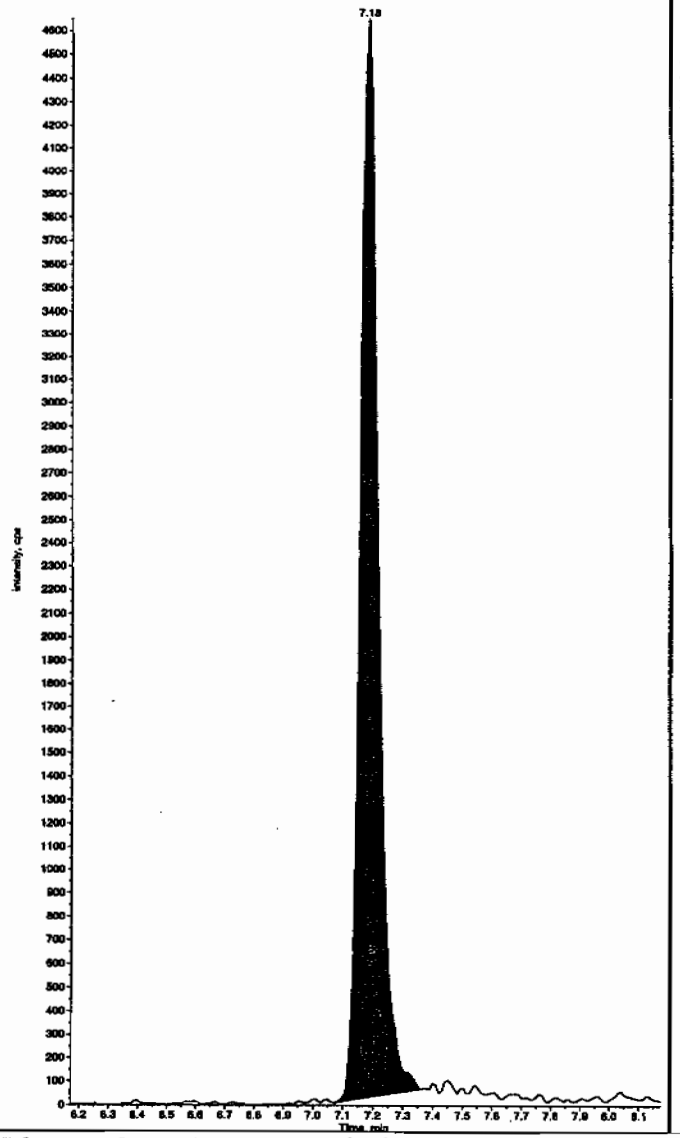
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Lcw 2/15/10

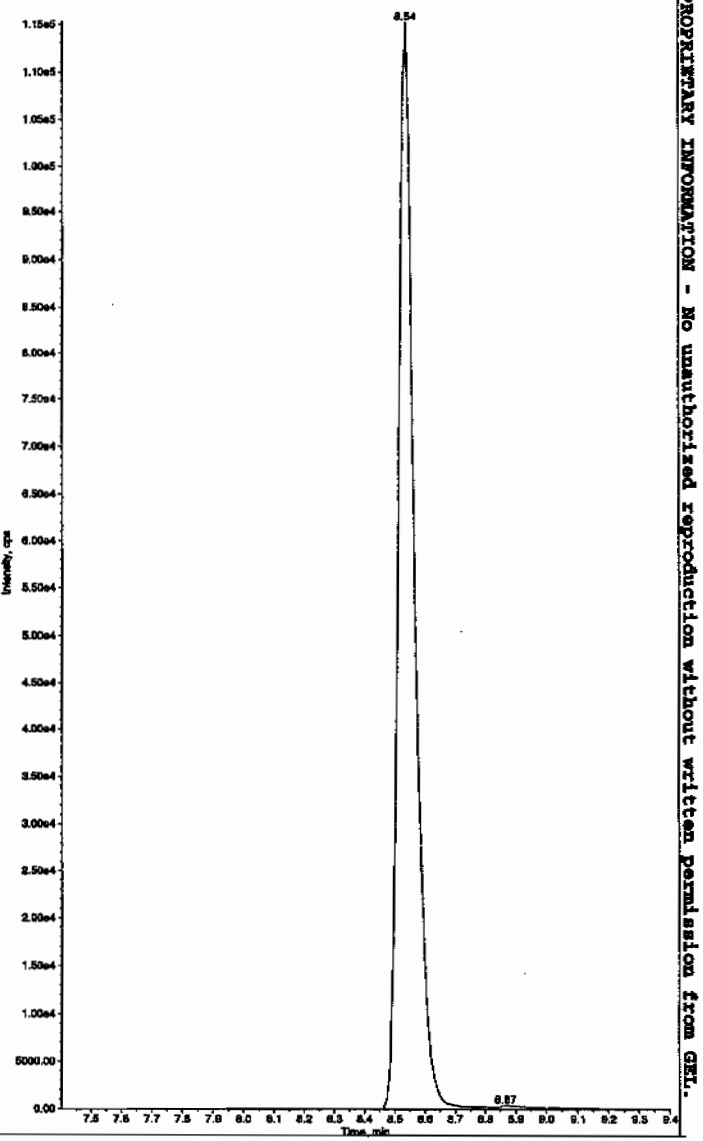
Sample Name: "245686009" Sample ID: "947078|2|LER" File: "EXS02130030.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	15.9	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	5:48:12 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:	7.17	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	7.18	min
Area:	2.02e+004	counts
Height:	4622.507	cps
Start Time:	7.07	min
End Time:	7.36	min



Sample Name: "245686009" Sample ID: "947078|2|LER" File: "EXS02130030.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	5:48:12 PM	
Modified:	No	



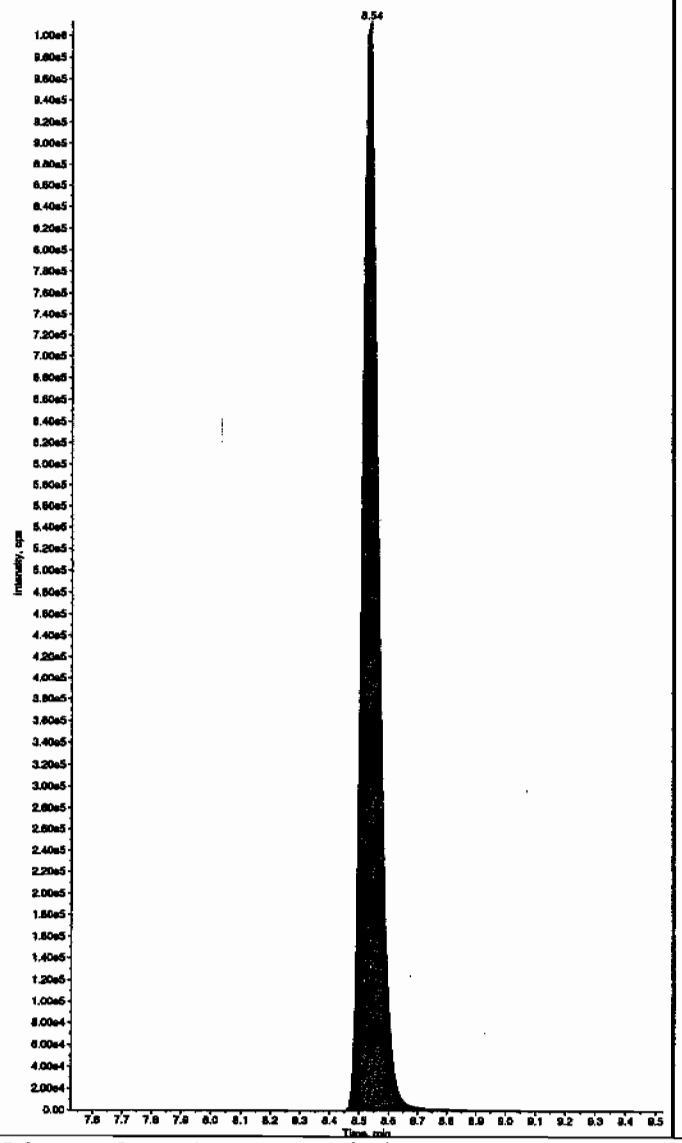
Hmm 02/16/10

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

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

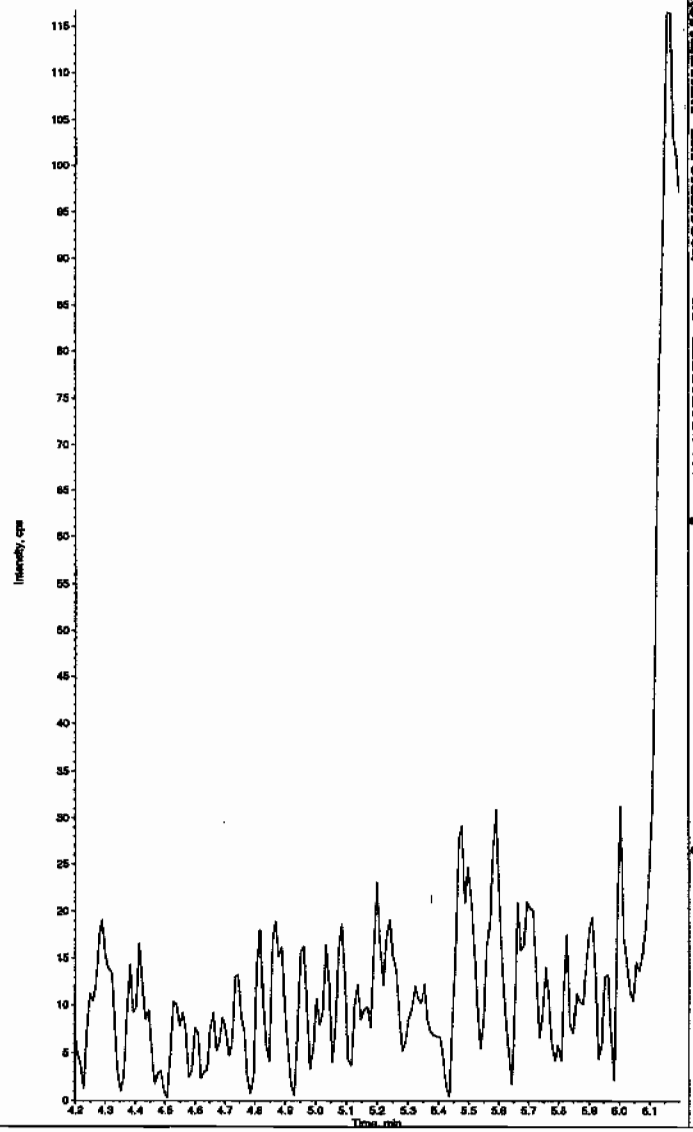
Sample Name: "245686009" Sample ID: "947078|2|LER" File: "EXS02130030.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	346. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	5:48:12 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1660.00 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	15.0 sec
Expected RT:	8.53 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.54 min
Area:	4.07e+006 counts
Height:	1013853.516 cps
Start Time:	8.43 min
End Time:	8.89 min



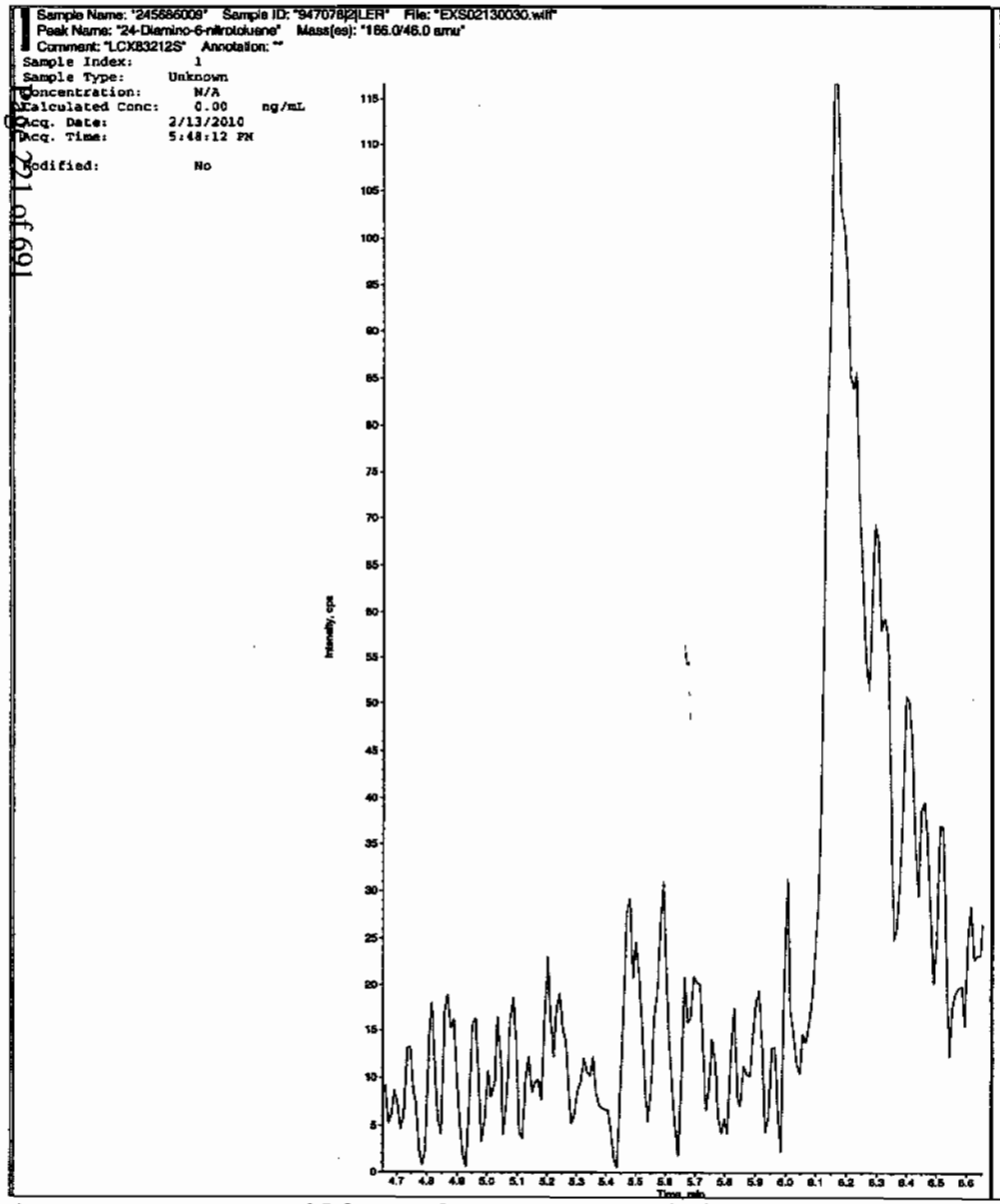
Sample Name: "245686009" Sample ID: "947078|2|LER" File: "EXS02130030.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

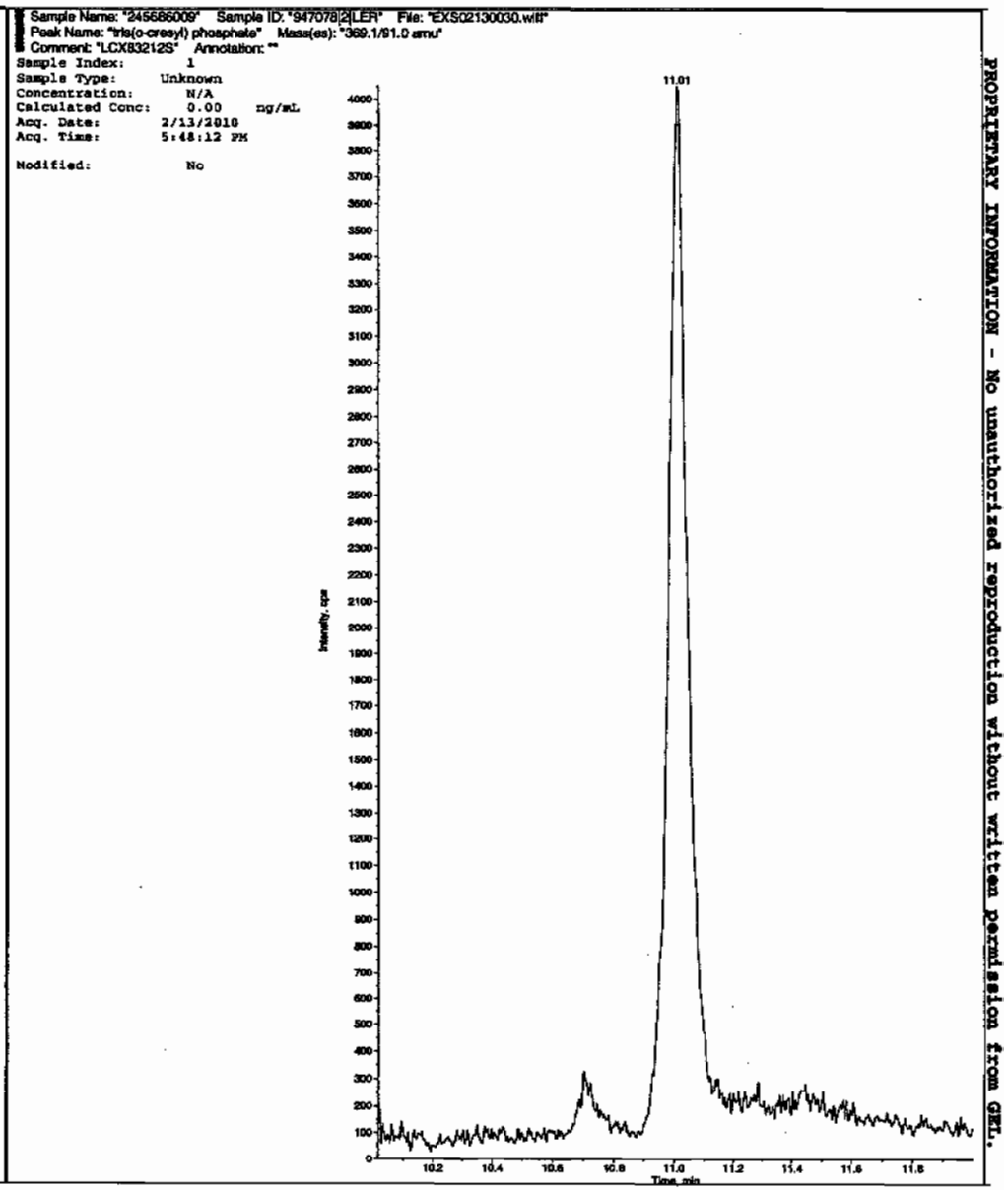
Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	5:48:12 PM
Modified:	No



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

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





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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7934

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208199a

Date Analyzed: 12-FEB-10 16:08

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

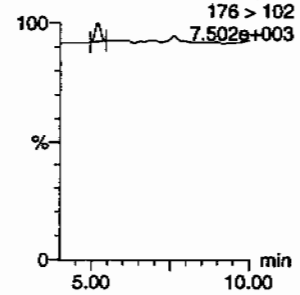
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208199a
Date: 12-Feb-2010
Time: 16:08:30
ID: 245686010
Vial: 4:6,C

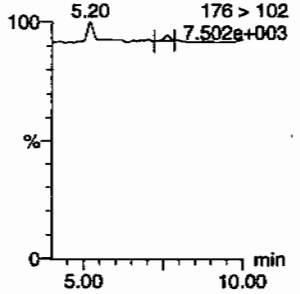
LANL | 947078 | Soil | 2 |

HMX 2/13/10

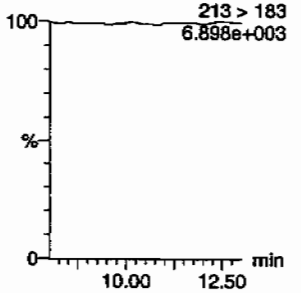
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.502e+003



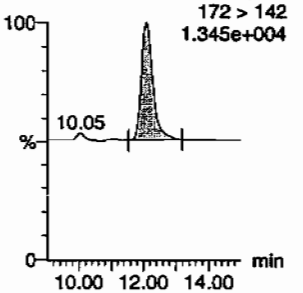
RDX
F2:MRM of 1 channel,AP-
5.20
176 > 102
7.502e+003



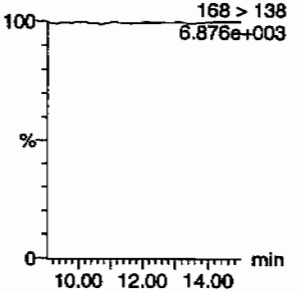
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.898e+003



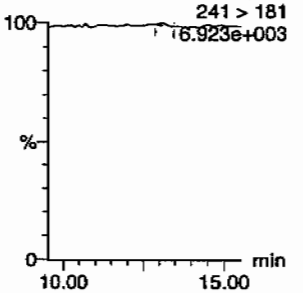
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.345e+004



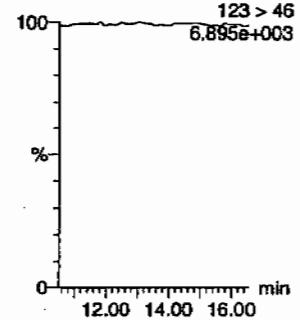
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.876e+003



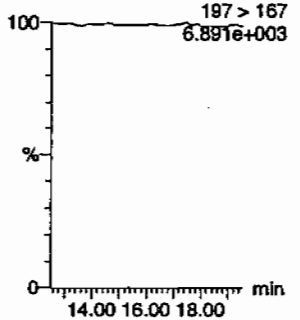
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.923e+003



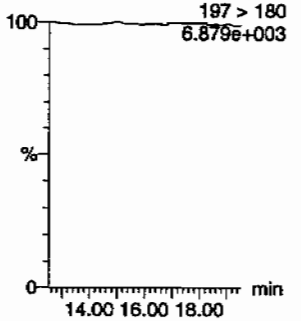
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.895e+003



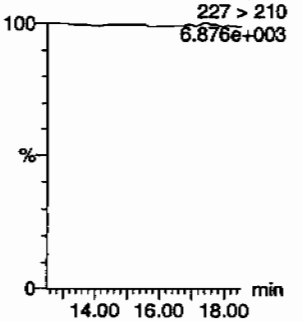
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.891e+003



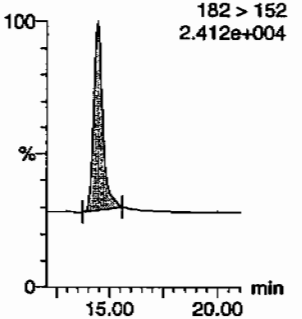
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.879e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.876e+003

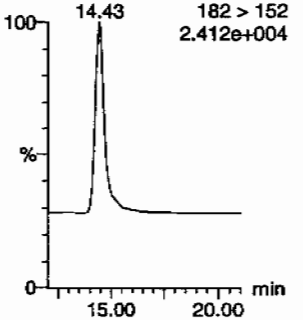


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.412e+004



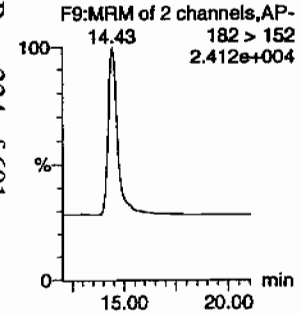
Hmw 02/13/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.43
182 > 152
2.412e+004

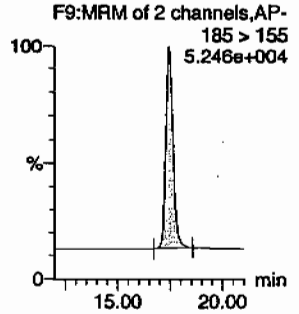


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

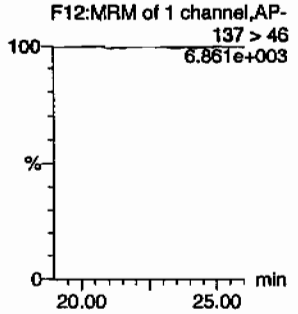
24-dinitrotoluene



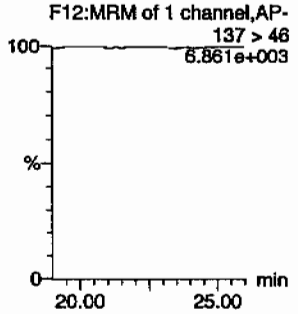
26-dinitrotoluene-d3



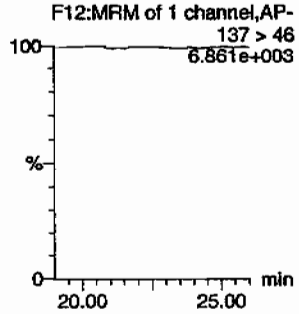
2-Nitrotoluene



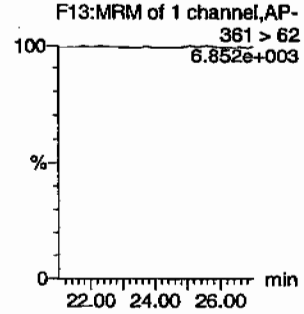
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Amt/mL	%Rec	%Dev	S/N
245686010	HMX	176 > 102	5.20	119.554	2773.364	119.554	21.554	bb			6.2065			23.1
245686010	RDX	176 > 102	7.61	43.456	2773.364	43.456	7.835	bb			3.2266			7.1
245686010	135-Trinitrobenzene	213 > 183			2773.364									
245686010	13-Dinitrobenzene-d4	172 > 142	12.07	2773.364		2773.364	2773.364	bb			431.3735	86.3	-13.7	158.3
245686010	13-Dinitrobenzene	168 > 138			2773.364									
245686010	Tetryl	241 > 181			2773.364			MM-	13-Feb-10	09:17:37				
245686010	Nitrobenzene	123 > 46			2773.364									
245686010	4-Amino-26-dinitrotoluene	197 > 167			18369.016									
245686010	2-Amino-46-dinitrotoluene	197 > 180			18369.016									
245686010	246-Trinitrotoluene	227 > 210			18369.016									
245686010	34-dinitrotoluene	182 > 152	14.43	8334.503	18369.016	8334.503	226.863	bb			252.0723	100.8	0.8	933.4
245686010	26-dinitrotoluene	182 > 152			18369.016									
245686010	24-dinitrotoluene	182 > 152			18369.016									
245686010	26-dinitrotoluene-d3	185 > 155	17.47	18369.016		18369.016	18369.016	bb			497.5442	99.5	-0.5	986.8
245686010	2-Nitrotoluene	137 > 46			18369.016									
245686010	4-Nitrotoluene	137 > 46			18369.016									
245686010	3-Nitrotoluene	137 > 46			18369.016									
245686010	PETN	361 > 62			18369.016									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7934

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130031.wiff

Date Analyzed: 13-FEB-10 18:03

Units: ug/kg

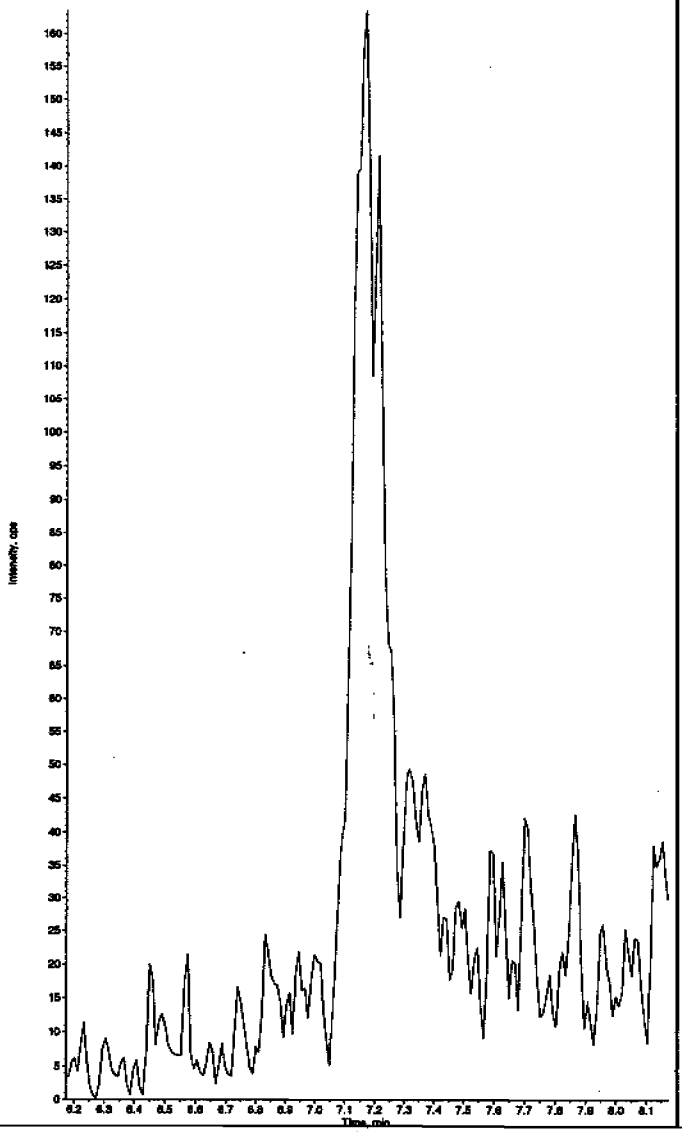
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

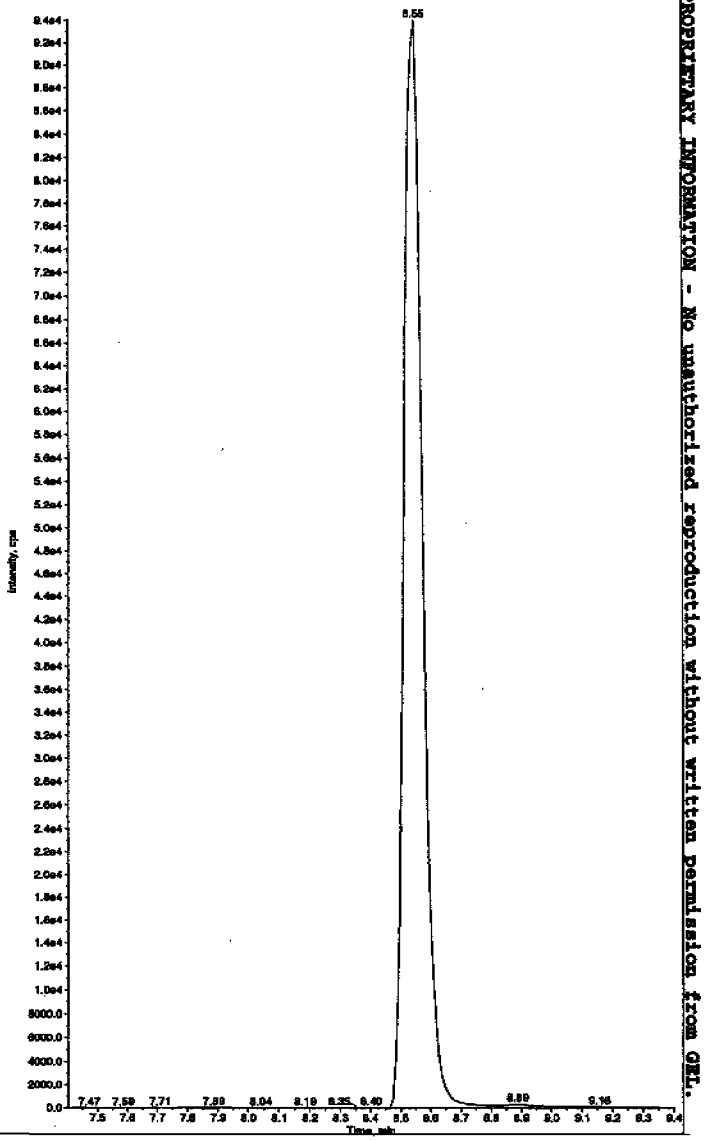
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Ian 2/15/10

Sample Name: "245686010" Sample ID: "947078[2]LER" File: "EXS02130031.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:03:53 PM
Modified: No



Sample Name: "245686010" Sample ID: "947078[2]LER" File: "EXS02130031.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:03:53 PM
Modified: No



Hmm 2/16/10

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

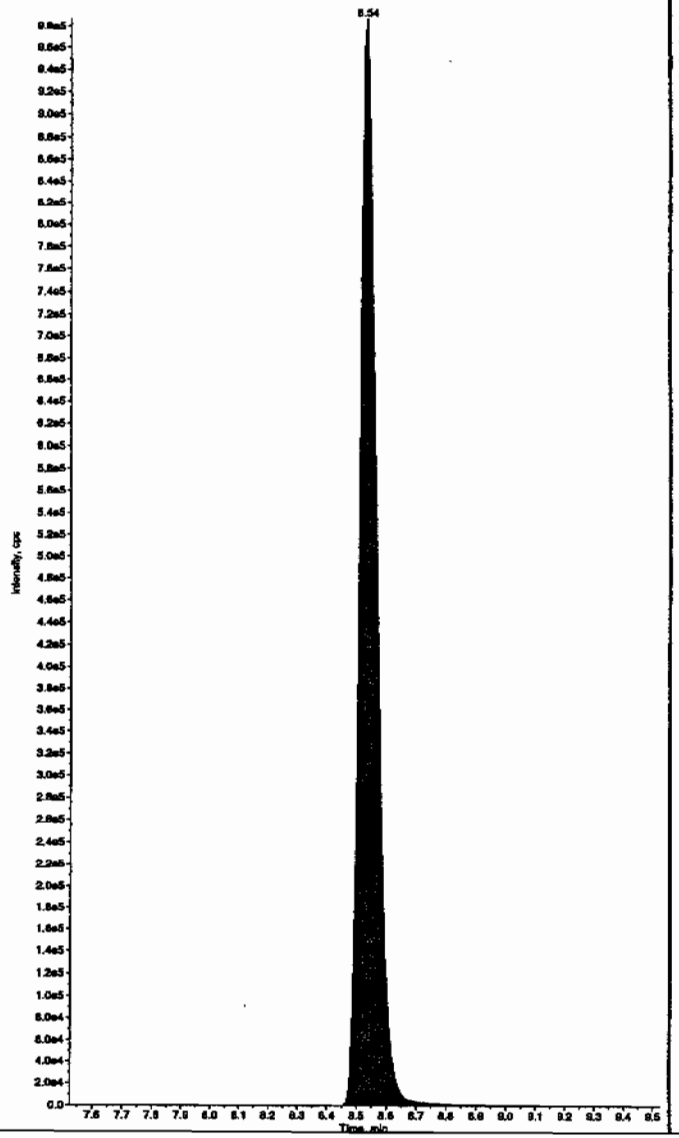
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686010" Sample ID: "947078|2|LER" File: "EXS02130031.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 345. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:03:53 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: 8.53 min
Use Relative RT: No

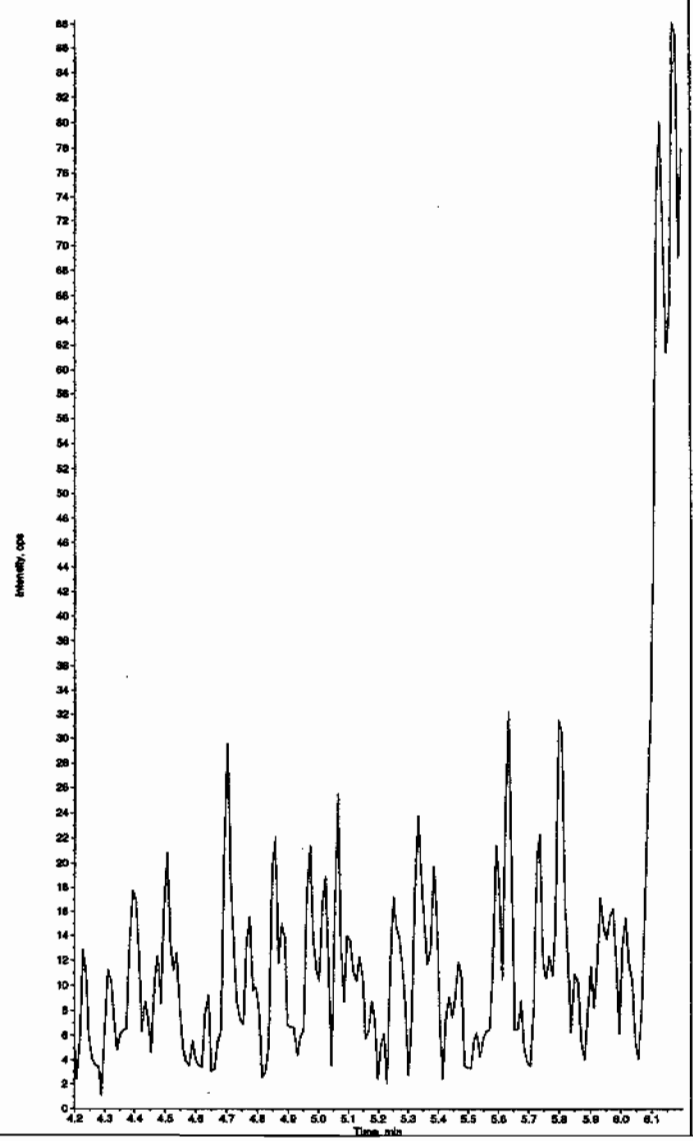
Int. Type: Valley
Retention Time: 8.54 min
Area: 4.06e+006 counts
Height: 987523.804 cps
Start Time: 8.41 min
End Time: 9.05 min



Sample Name: "245686010" Sample ID: "947078|2|LER" File: "EXS02130031.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:03:53 PM

Modified: No



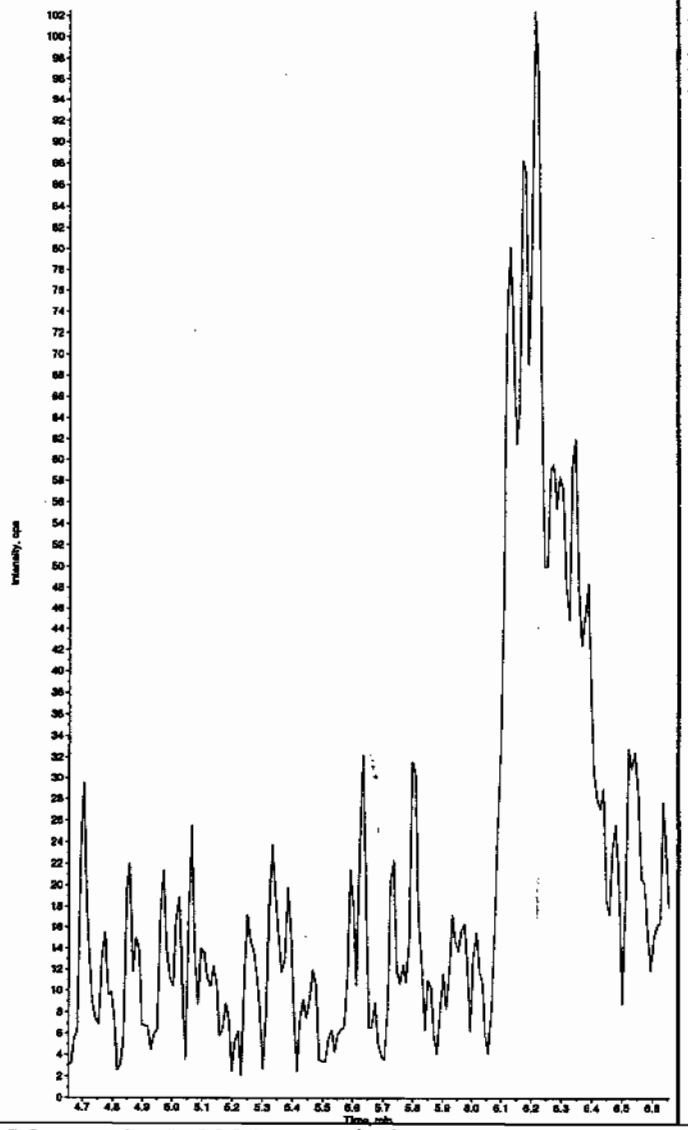
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

Sample Name: "245686010" Sample ID: "947078[2]LER" File: "EXS02130031.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:03:53 PM

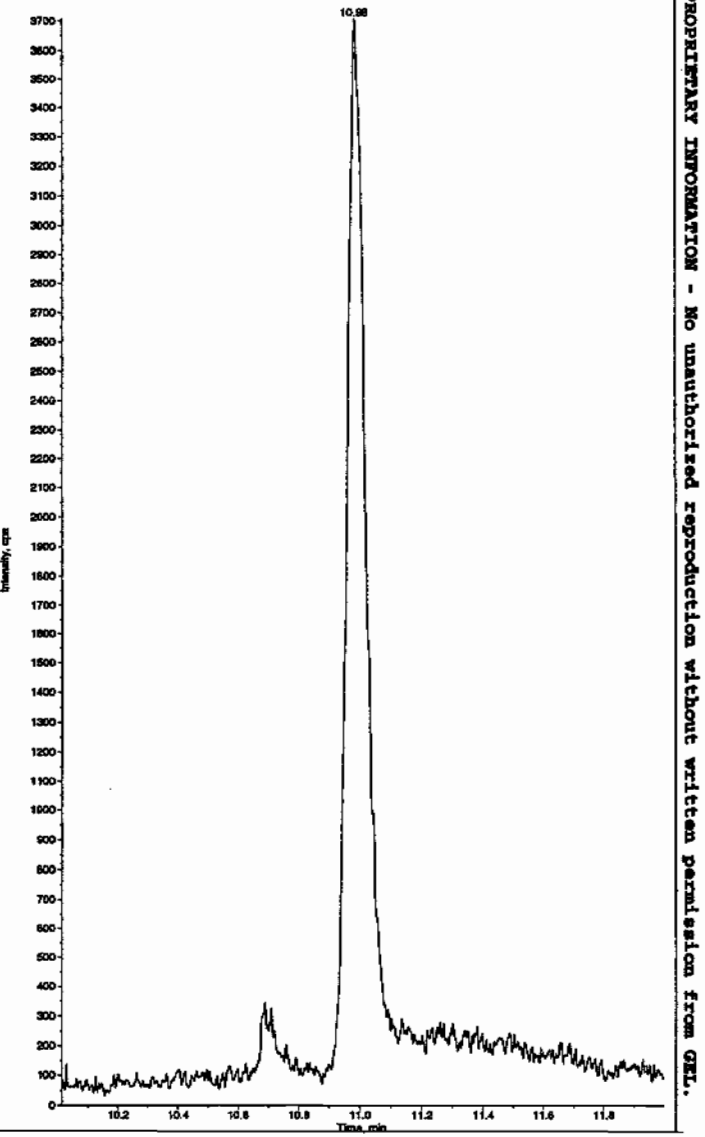
Modified: No



Sample Name: "245686010" Sample ID: "947078[2]LER" File: "EXS02130031.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:03:53 PM

Modified: No



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7940

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208200a

Date Analyzed: 12-FEB-10 16:38

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

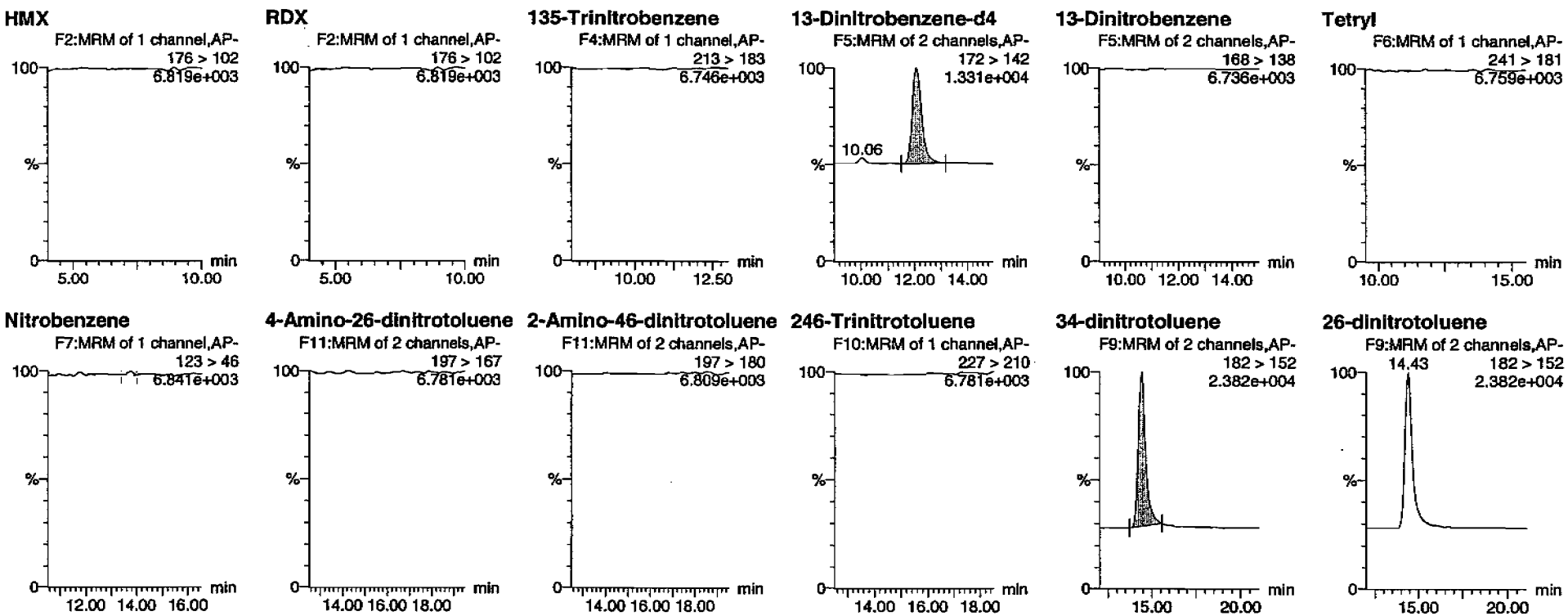
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208200a
Date: 12-Feb-2010
Time: 16:38:00
ID: 245686011 | LANL | 947078 | Solid | 2 |
Vial: 4:6,D

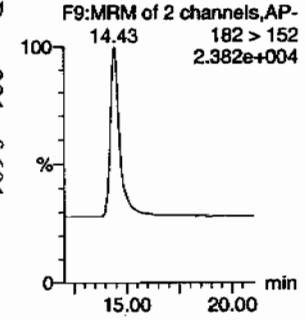
MAP 2/13/10



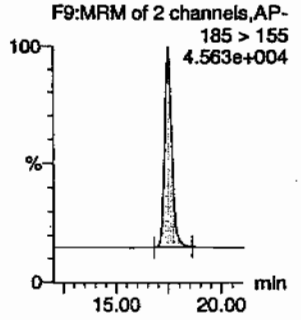
HMM 02/13/10

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

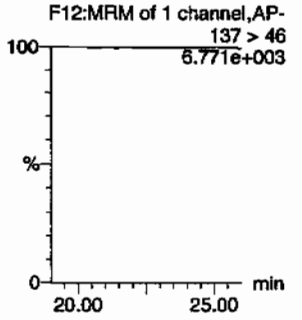
24-dinitrotoluene



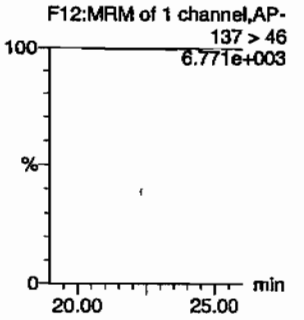
26-dinitrotoluene-d3



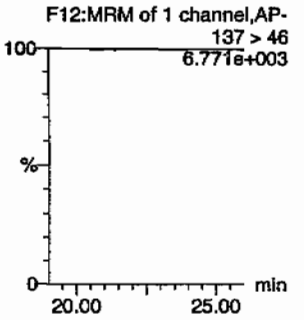
2-Nitrotoluene



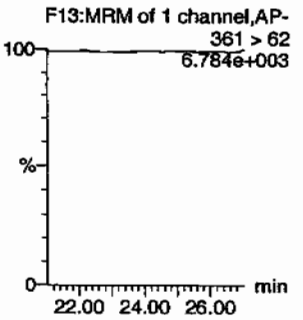
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686011	HMX	176 > 102			2749.128									
245686011	RDX	176 > 102			2749.128									
245686011	135-Trinitrobenzene	213 > 183			2749.128									
245686011	13-Dinitrobenzene-d4	172 > 142	12.07	2749.128		2749.128	2749.128	bb			427.6038	85.5	-14.5	348.7
245686011	13-Dinitrobenzene	168 > 138			2749.128									
245686011	Tetryl	241 > 181			2749.128									
245686011	Nitrobenzene	123 > 46			2749.128			MM-	13-Feb-10	09:18:51				
245686011	4-Amino-26-dinitrotoluene	197 > 167			15534.250									
245686011	2-Amino-46-dinitrotoluene	197 > 180			15534.250									
245686011	246-Trinitrotoluene	227 > 210			15534.250									
245686011	34-dinitrotoluene	182 > 152	14.43	8243.722	15534.250	8243.722	265.340	bb			294.8250	117.9	17.9	452.1
245686011	26-dinitrotoluene	182 > 152			15534.250									
245686011	24-dinitrotoluene	182 > 152			15534.250									
245686011	26-dinitrotoluene-d3	185 > 155	17.46	15534.250		15534.250	15534.250	bb			420.7616	84.2	-15.8	1257.5
245686011	2-Nitrotoluene	137 > 46			15534.250									
245686011	4-Nitrotoluene	137 > 46			15534.250									
245686011	3-Nitrotoluene	137 > 46			15534.250									
245686011	PETN	361 > 62			15534.250									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7940

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130032.wiff

Date Analyzed: 13-FEB-10 18:19

Units: ug/kg

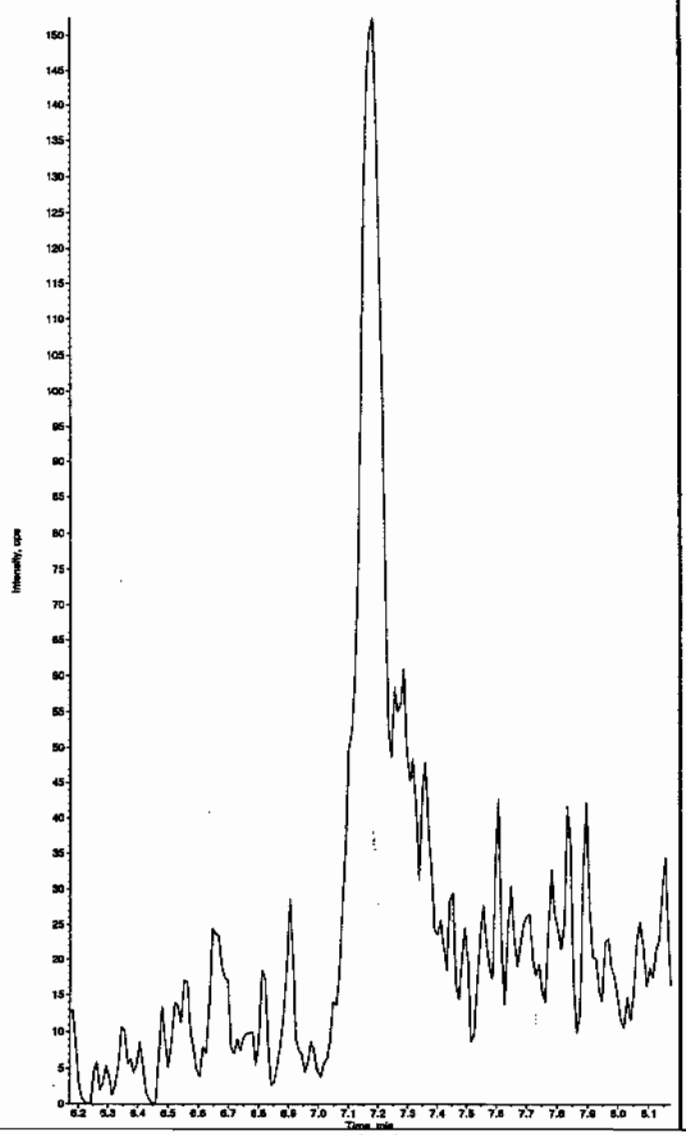
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

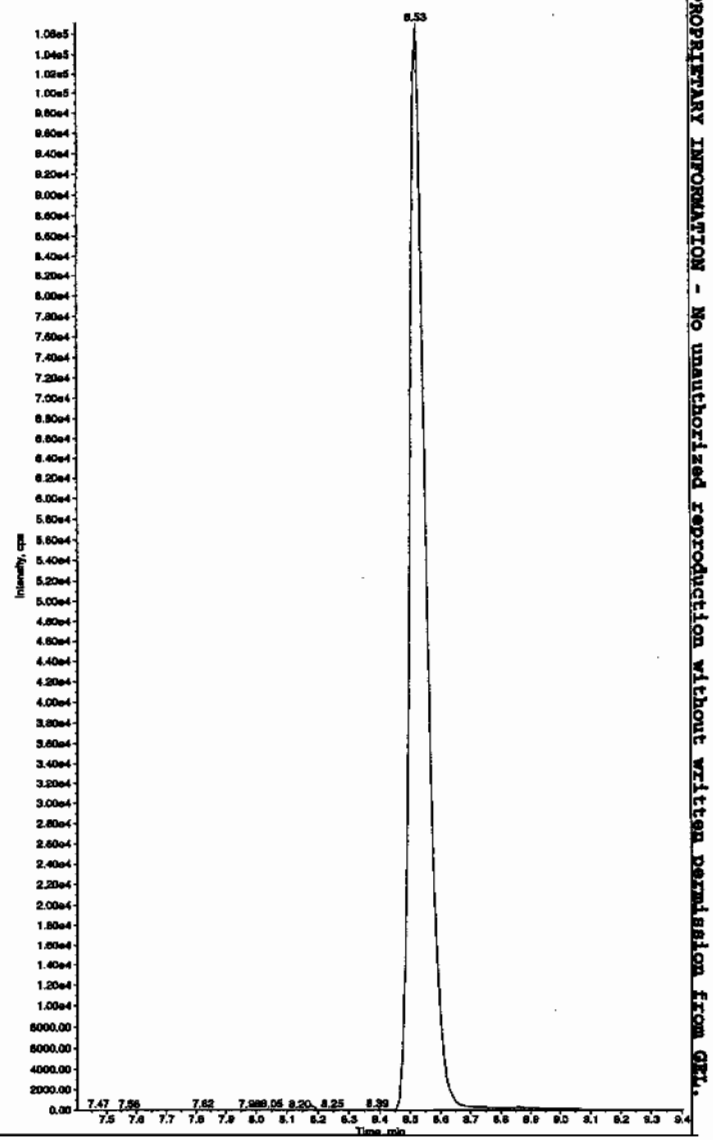
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

LCR 2/15/10

Sample Name: "245686011" Sample ID: "947078|2|LER" File: "EXS02130032.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:19:34 PM
Modified: No



Sample Name: "245686011" Sample ID: "947078|2|LER" File: "EXS02130032.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:19:34 PM
Modified: No



Hnm 02/16/10

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

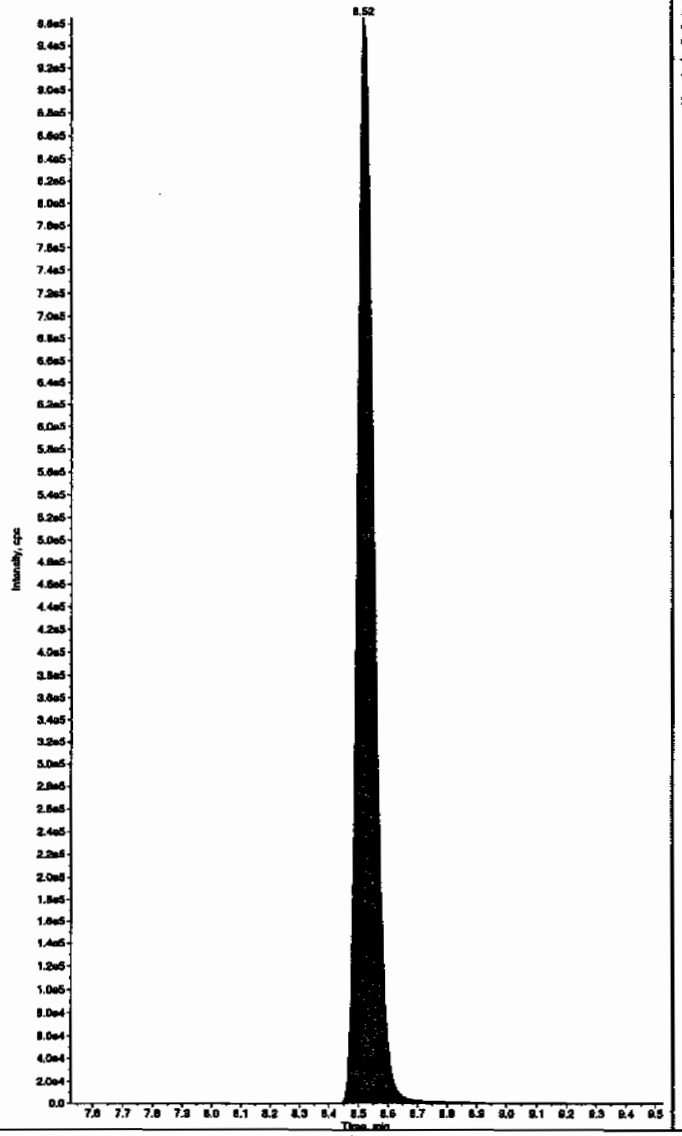
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686011" Sample ID: "947078|2|LER" File: "EXS02130032.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 335. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:19:34 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: 8.53 min
Use Relative RT: No

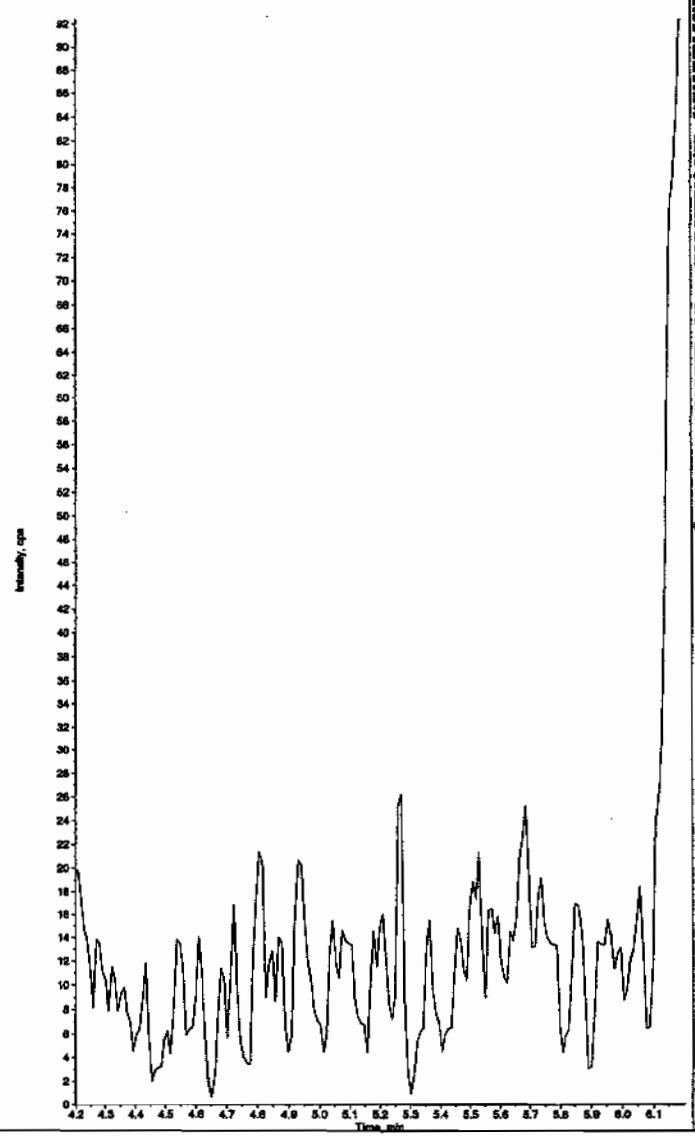
Int. Type: Valley
Retention Time: 8.52 min
Area: 3.95e+006 counts
Height: 965598.999 cps
Start Time: 8.38 min
End Time: 9.00 min



Sample Name: "245686011" Sample ID: "947078|2|LER" File: "EXS02130032.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:19:34 PM

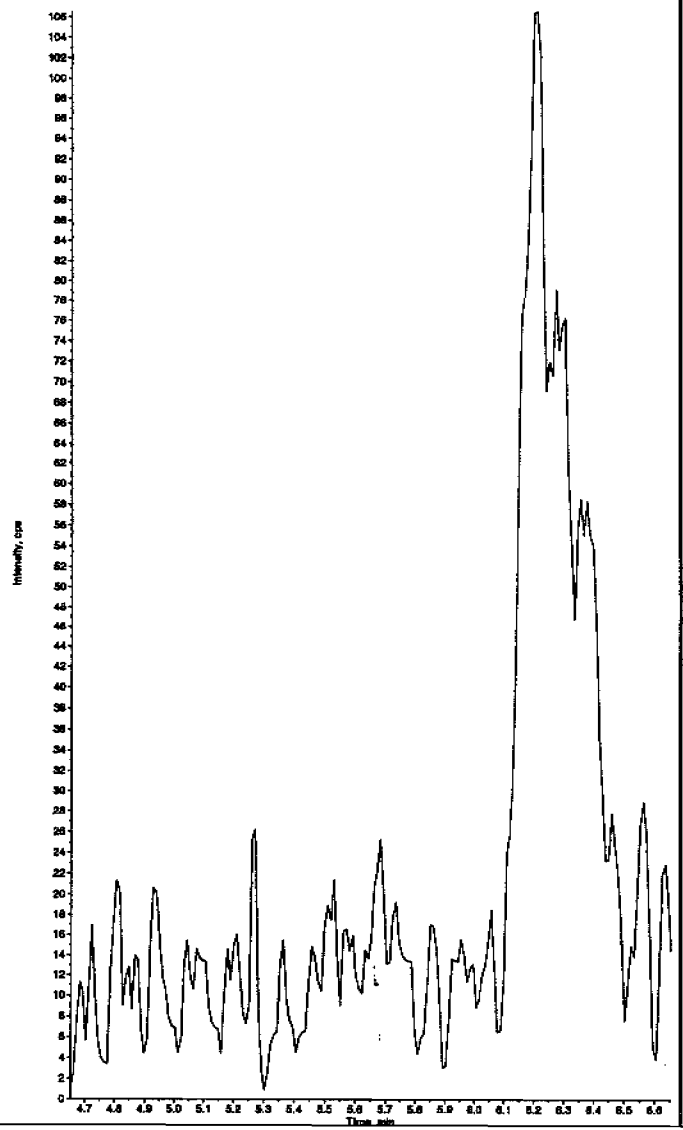
Modified: No



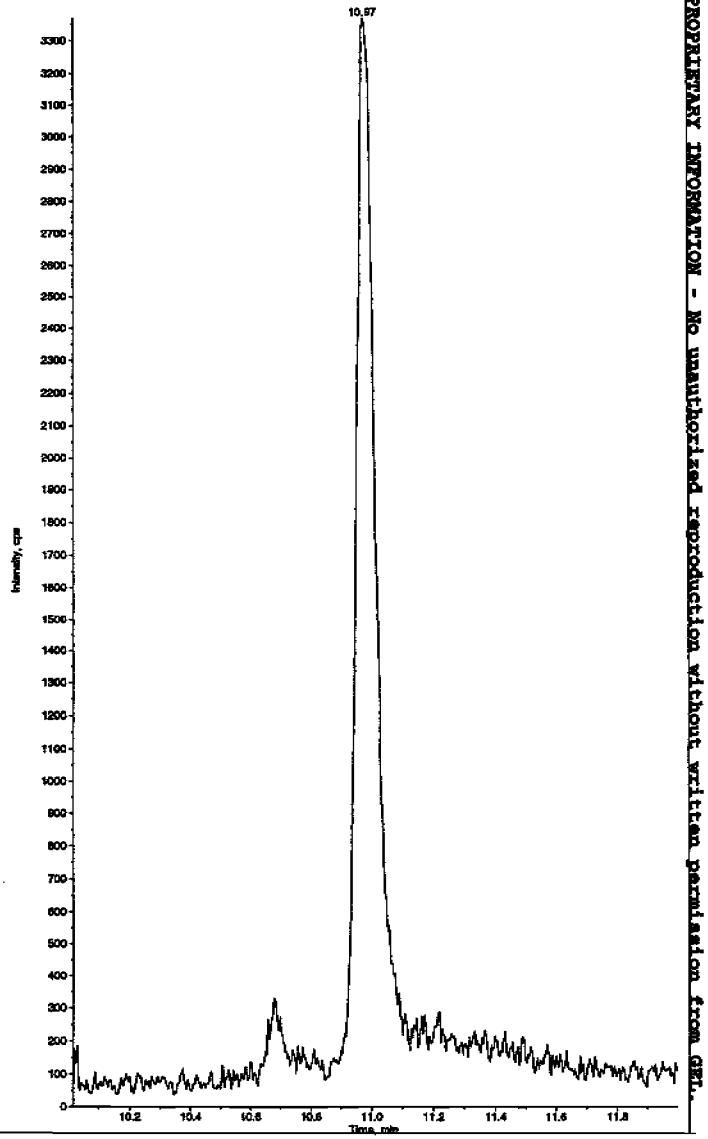
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

Sample Name: "245686011" Sample ID: "947078[2]LER" File: "EXS02130032.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:19:34 PM
Modified: No



Sample Name: "245686011" Sample ID: "947078[2]LER" File: "EXS02130032.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:19:34 PM
Modified: No



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7937

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208201a

Date Analyzed: 12-FEB-10 17:07

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

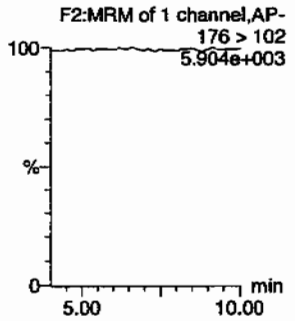
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208201a
Date: 12-Feb-2010
Time: 17:07:30
ID: 245686012 | LANL | 947078 | Solid | 21
Vial: 4:6,E

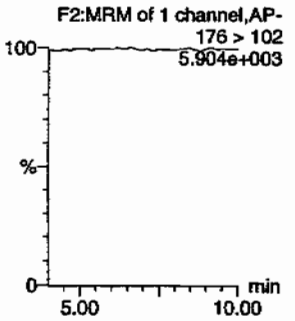
MM 4/13/10

Page 237 of 691

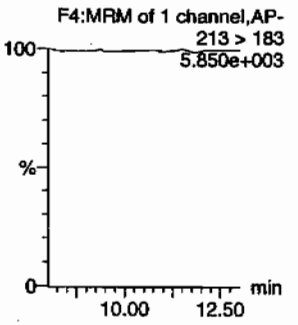
HMX
F2:MRM of 1 channel,AP-
176 > 102
5.904e+003



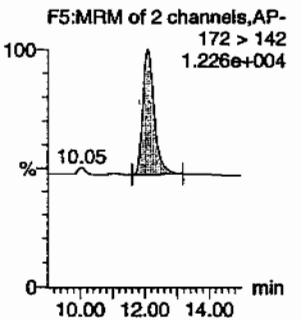
RDX
F2:MRM of 1 channel,AP-
176 > 102
5.904e+003



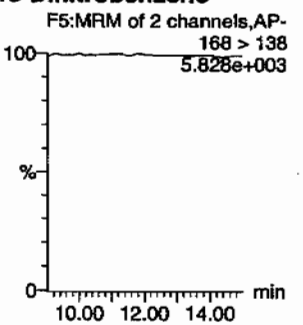
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.850e+003



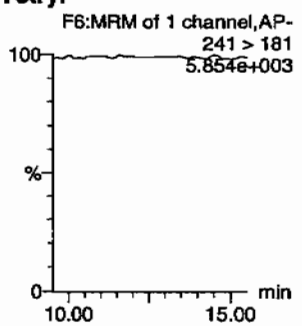
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.226e+004



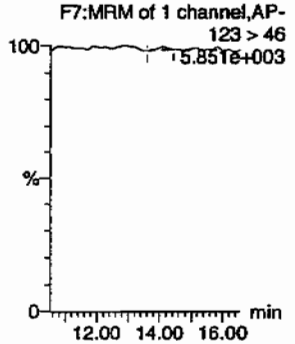
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
5.828e+003



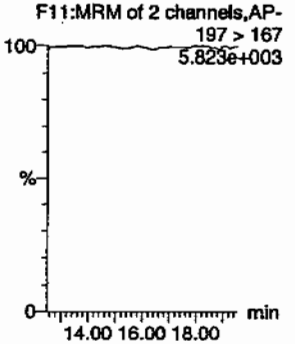
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
5.854e+003



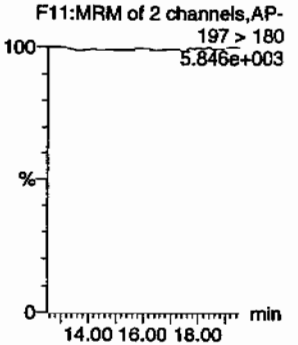
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
5.851e+003



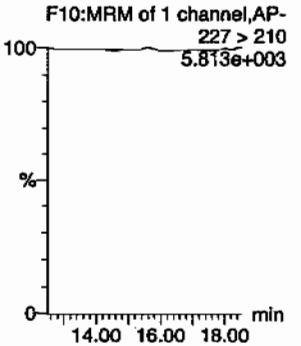
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
5.823e+003



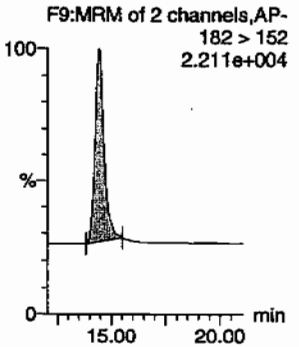
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
5.846e+003



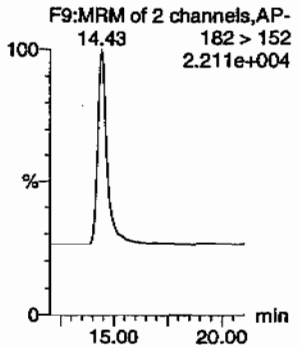
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
5.813e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
2.211e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.43
182 > 152
2.211e+004

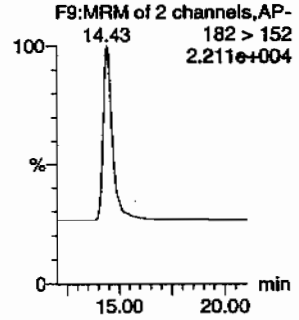


MM 02/13/10

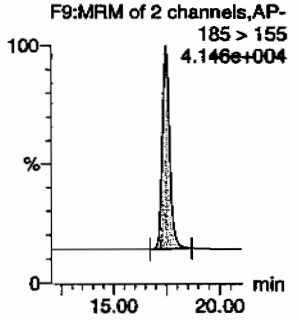
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

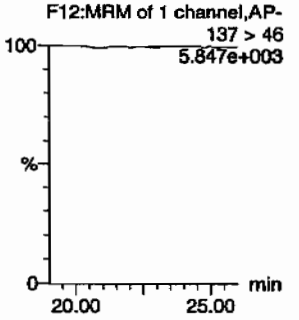
24-dinitrotoluene



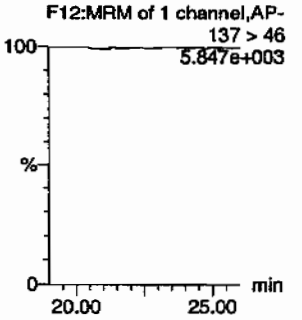
26-dinitrotoluene-d3



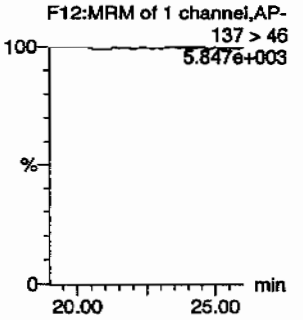
2-Nitrotoluene



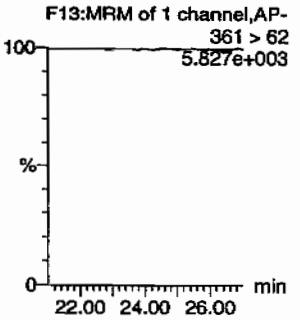
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S/Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686012	HMX	176 > 102			2664.556									
245686012	RDX	176 > 102			2664.556									
245686012	135-Trinitrobenzene	213 > 183			2664.556									
245686012	13-Dinitrobenzene-d4	172 > 142	12.07	2664.556		2664.556	2664.556	bb			414.4494	82.9	-17.1	159.5
245686012	13-Dinitrobenzene	168 > 138			2664.556									
245686012	Tetryl	241 > 181			2664.556									
245686012	Nitrobenzene	123 > 46			2664.556			MM-	13-Feb-10	09:18:55				
245686012	4-Amino-26-dinitrotoluene	197 > 167			14384.502									
245686012	2-Amino-46-dinitrotoluene	197 > 180			14384.502									
245686012	246-Trinitrotoluene	227 > 210			14384.502									
245686012	34-dinitrotoluene	182 > 152	14.43	7747.882	14384.502	7747.882	269.314	bb			299.2399	119.7	19.7	574.7
245686012	26-dinitrotoluene	182 > 152			14384.502									
245686012	24-dinitrotoluene	182 > 152			14384.502									
245686012	26-dinitrotoluene-d3	185 > 155	17.46	14384.502		14384.502	14384.502	bb			389.6195	77.9	-22.1	2141.0
245686012	2-Nitrotoluene	137 > 46			14384.502									
245686012	4-Nitrotoluene	137 > 46			14384.502									
245686012	3-Nitrotoluene	137 > 46			14384.502									
245686012	PETN	361 > 62			14384.502									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7937

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130033.wiff

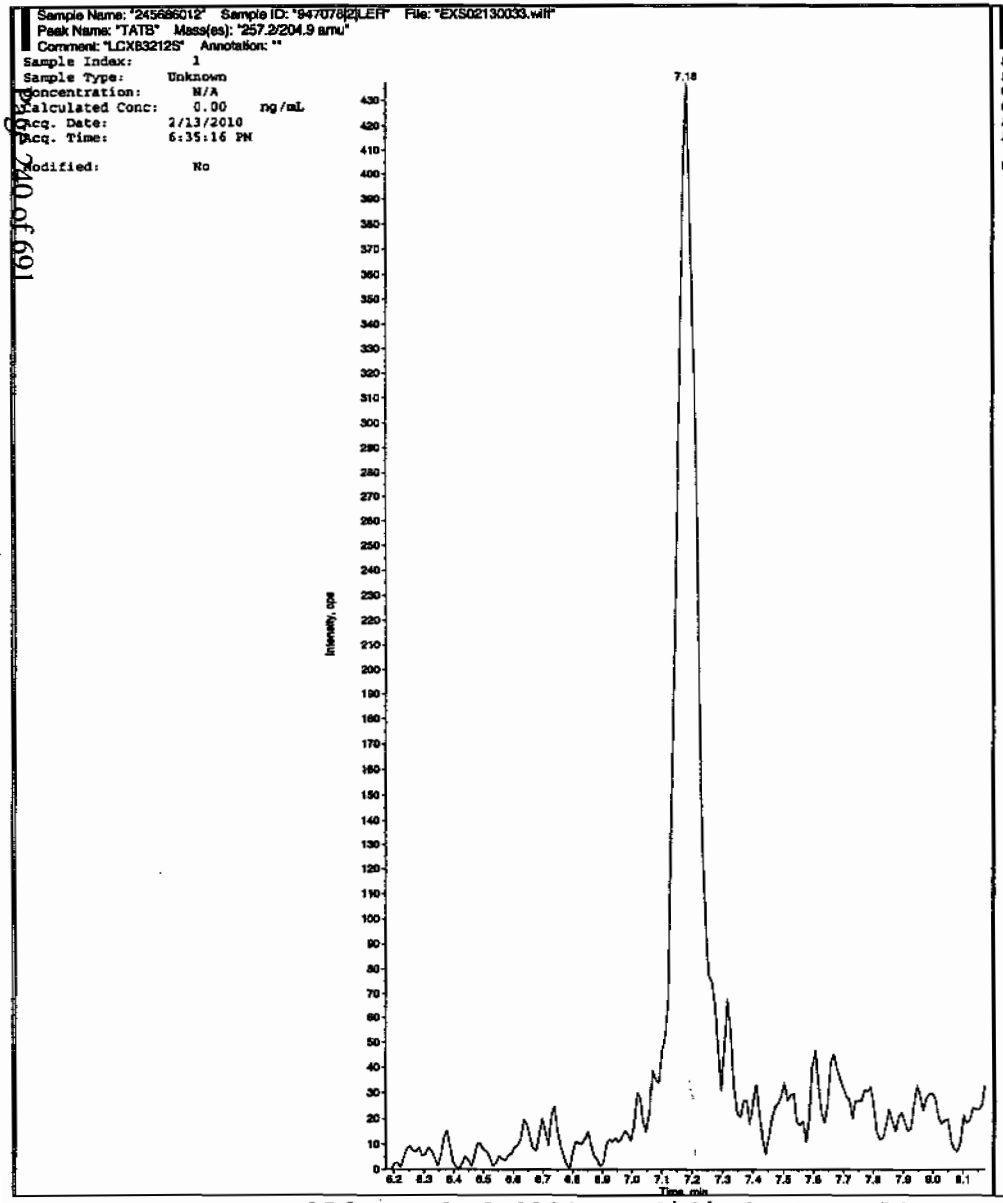
Date Analyzed: 13-FEB-10 18:35

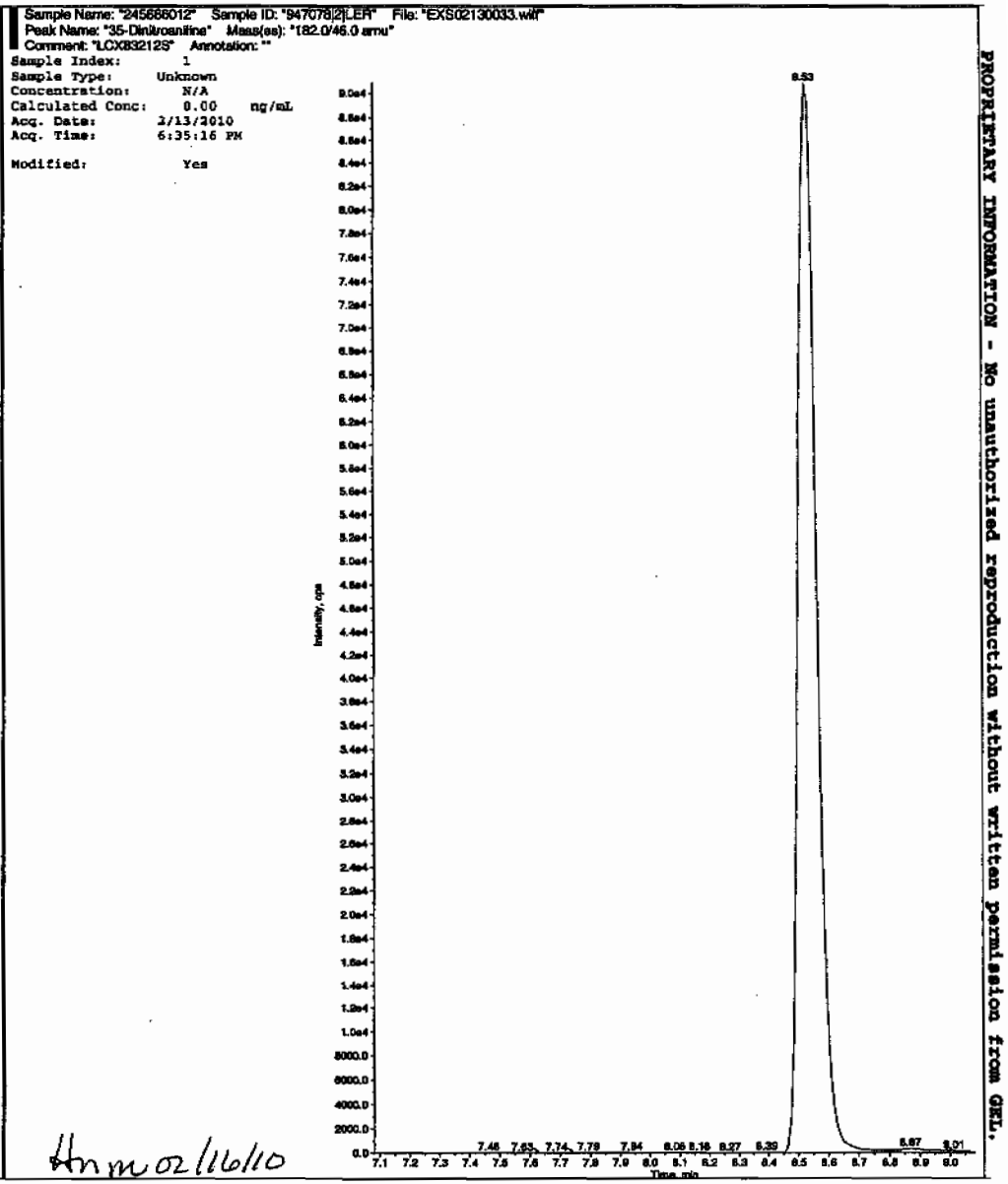
Units: ug/kg

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

*Concentration = $\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$

Lcw 2/16/10





Hnm 02/16/10

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

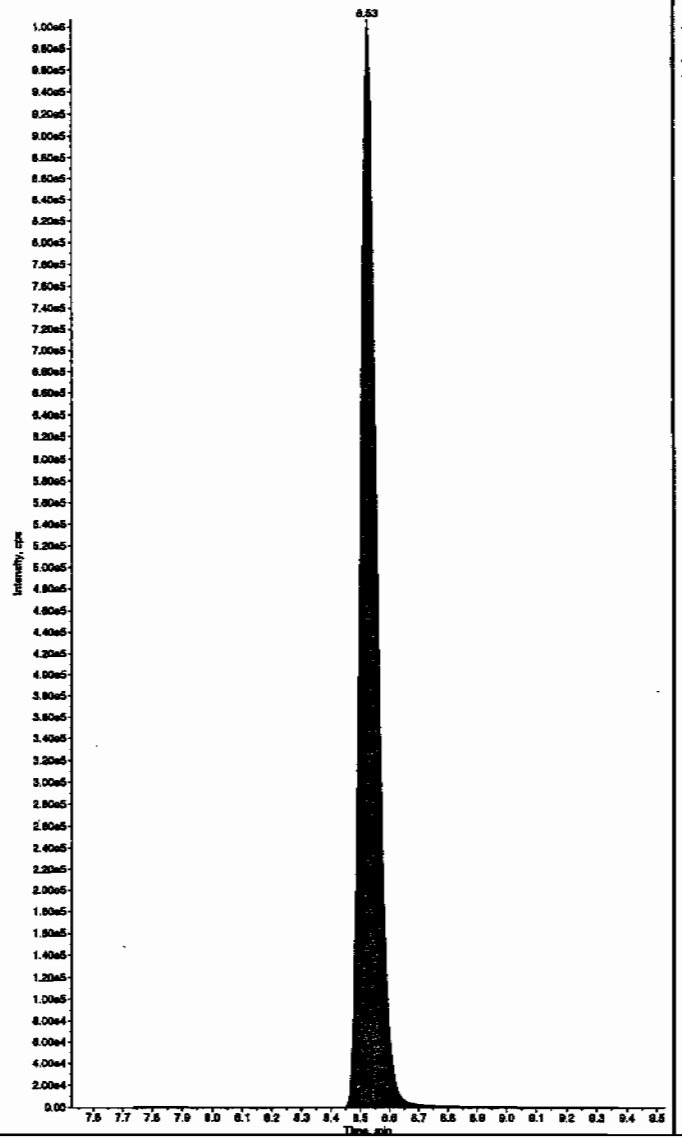
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686012" Sample ID: "947076[2]LER" File: "EXS02130033.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 347. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:35:16 PM

Modified: No
Assoc. 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: 8.53 min
Use Relative RT: No

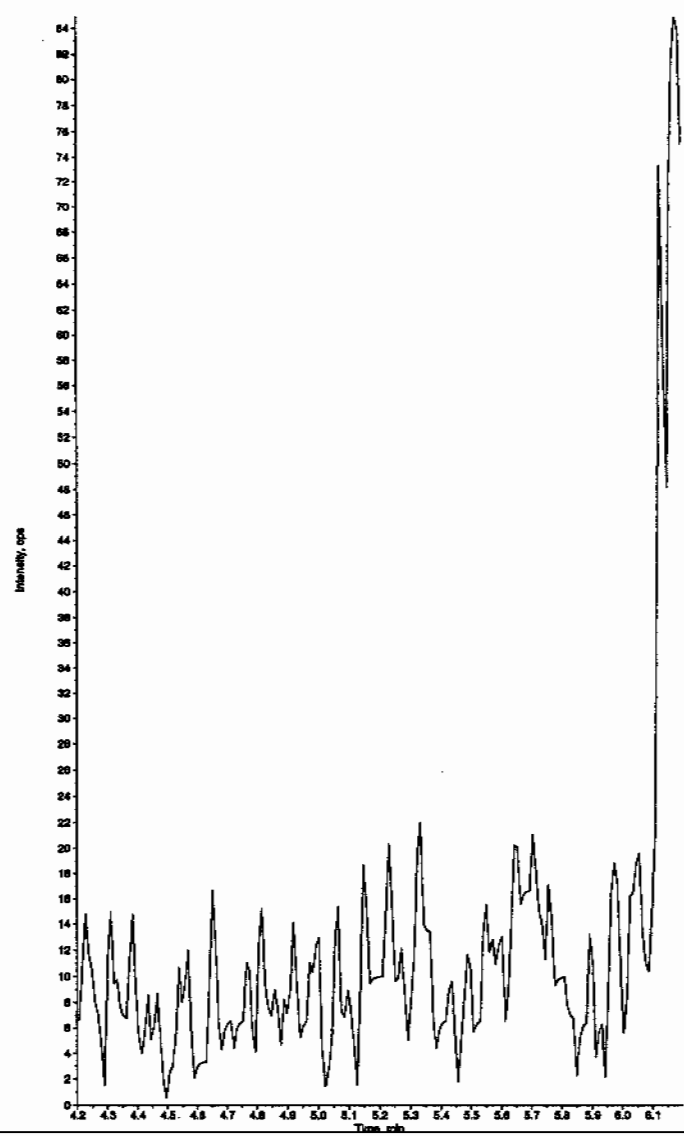
Int. Type: Valley
Retention Time: 8.53 min
Area: 4.08e+006 counts
Height: 1007810.242 cps
Start Time: 8.39 min
End Time: 8.69 min



Sample Name: "245686012" Sample ID: "947076[2]LER" File: "EXS02130033.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 5:35:16 PM

Modified: No

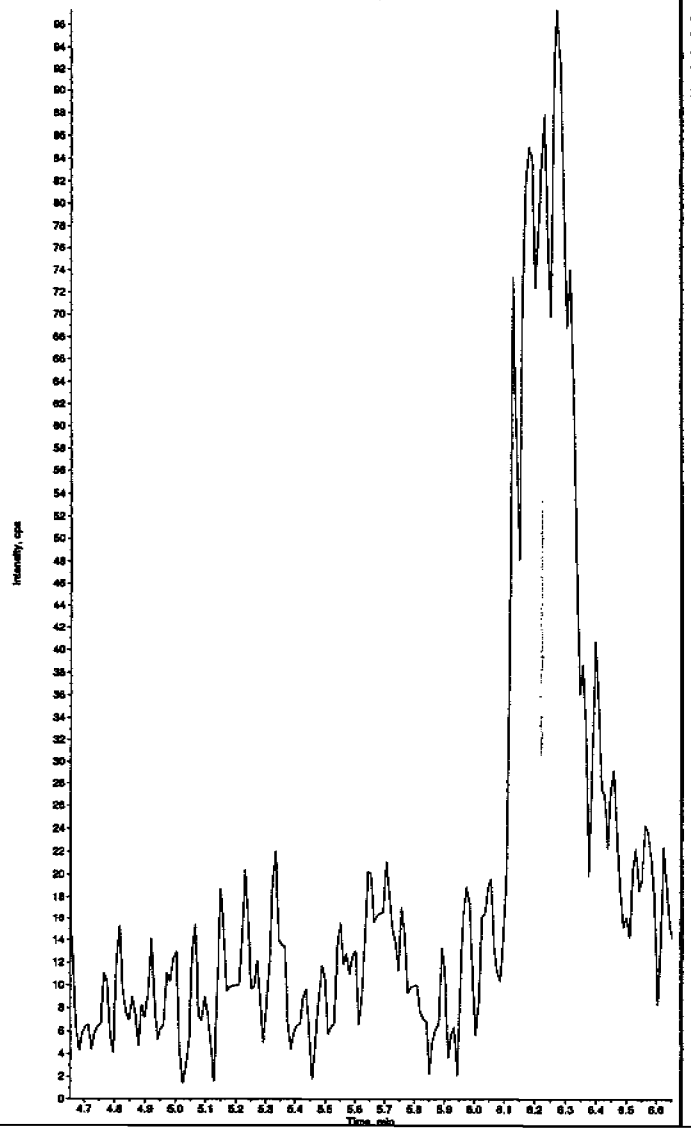


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

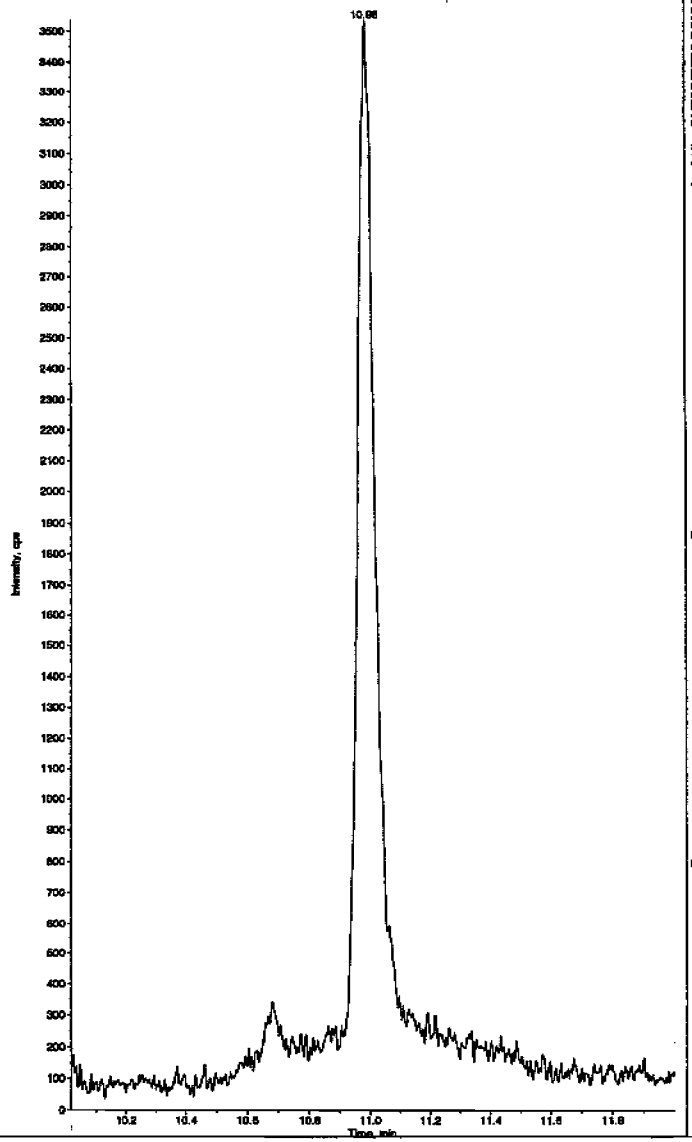
Sample Name: "245686012" Sample ID: "947078|2|LER" File: "EXS02130033.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	6:35:16 PM
Modified:	No



Sample Name: "245686012" Sample ID: "947078|2|LER" File: "EXS02130033.wiff"
Peak Name: "Tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	6:35:16 PM
Modified:	No



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8056

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686013

Sample Amount 2

Moisture: 3.6

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208202a

Date Analyzed: 12-FEB-10 17:36

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 =

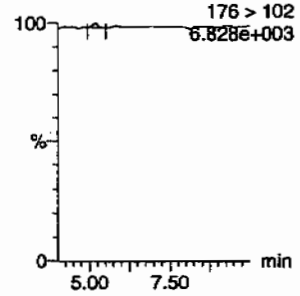
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

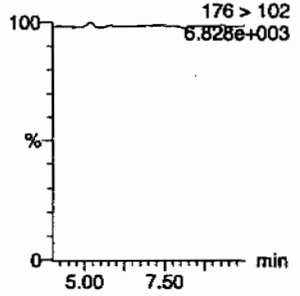
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208202a
Date: 12-Feb-2010
Time: 17:36:59
ID: 245686013 | LANL | 947098 | Soil | 2 |
Vial: 4:6,F

mdf 4/13/10

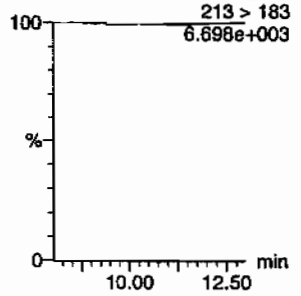
HMX
F2:MRM of 1 channel,AP- 176 > 102 6.828e+003



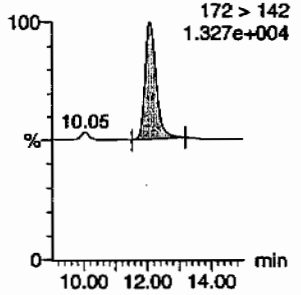
RDX
F2:MRM of 1 channel,AP- 176 > 102 6.828e+003



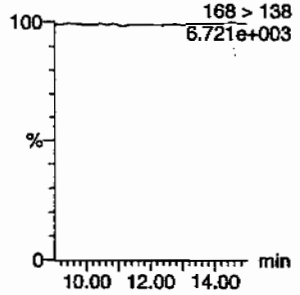
135-Trinitrobenzene
F4:MRM of 1 channel,AP- 213 > 183 6.698e+003



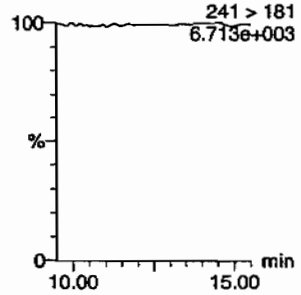
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP- 172 > 142 1.327e+004



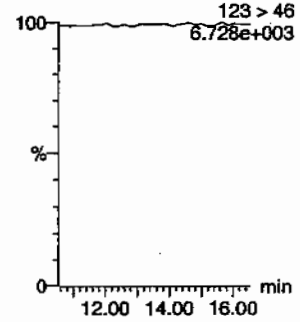
13-Dinitrobenzene
F5:MRM of 2 channels,AP- 168 > 138 6.721e+003



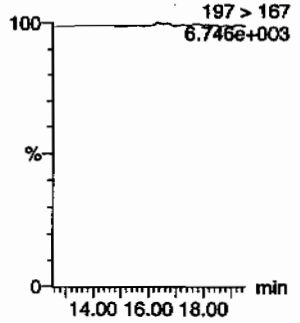
Tetryl
F6:MRM of 1 channel,AP- 241 > 181 6.713e+003



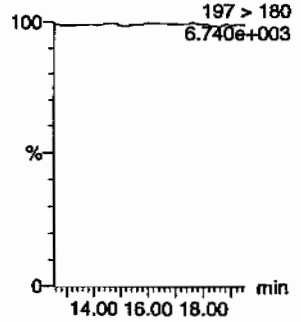
Nitrobenzene
F7:MRM of 1 channel,AP- 123 > 46 6.728e+003



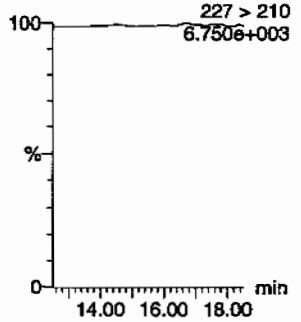
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 167 6.745e+003



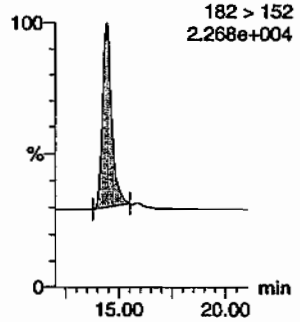
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 180 6.740e+003



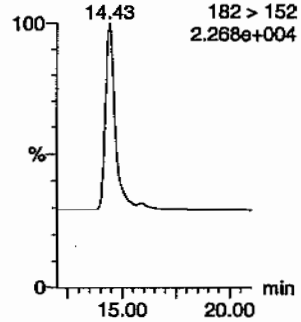
246-Trinitrotoluene
F10:MRM of 1 channel,AP- 227 > 210 6.750e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP- 182 > 152 2.268e+004



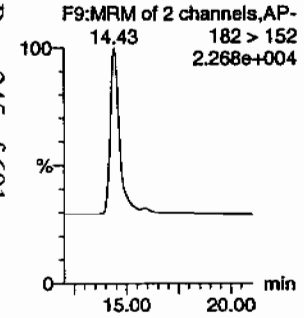
26-dinitrotoluene
F9:MRM of 2 channels,AP- 14.43 182 > 152 2.268e+004



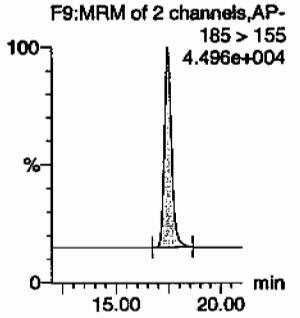
HMM 02/13/10

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

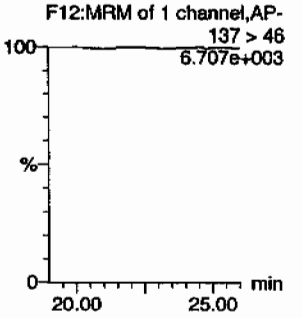
24-dinitrotoluene



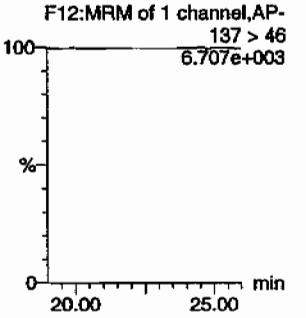
26-dinitrotoluene-d3



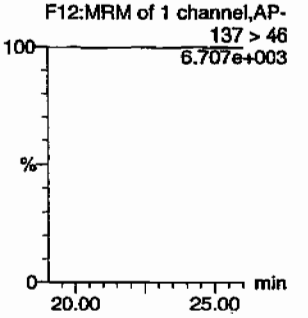
2-Nitrotoluene



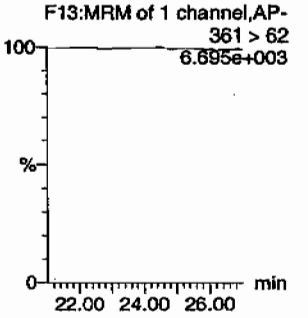
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	CalRT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686013	HMX	176 > 102	5.19	33.036	2664.821	33.036	6.199	bb			1.7849			6.4
245686013	RDX	176 > 102			2664.821									
245686013	135-Trinitrobenzene	213 > 183			2664.821									
245686013	13-Dinitrobenzene-d4	172 > 142	12.07	2664.821		2664.821	2664.821	bb			414.4906	82.9	-17.1	273.3
245686013	13-Dinitrobenzene	168 > 138			2664.821									
245686013	Tetryl	241 > 181			2664.821									
245686013	Nitrobenzene	123 > 46			2664.821									
245686013	4-Amino-26-dinitrotoluene	197 > 167			15262.868									
245686013	2-Amino-46-dinitrotoluene	197 > 180			15262.868									
245686013	246-Trinitrotoluene	227 > 210			15262.868									
245686013	34-dinitrotoluene	182 > 152	14.43	7691.452	15262.868	7691.452	251.966	bb			279.9649	112.0	12.0	793.0
245686013	26-dinitrotoluene	182 > 152			15262.868									
245686013	24-dinitrotoluene	182 > 152			15262.868									
245686013	26-dinitrotoluene-d3	185 > 155	17.47	15262.868		15262.868	15262.868	bb			413.4109	82.7	-17.3	1891.3
245686013	2-Nitrotoluene	137 > 46			15262.868									
245686013	4-Nitrotoluene	137 > 46			15262.868									
245686013	3-Nitrotoluene	137 > 46			15262.868									
245686013	PETN	361 > 62			15262.868									

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

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8056

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686013

Sample Amount 2

Moisture: 3.6

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130034.wiff

Date Analyzed: 13-FEB-10 18:50

Units: ug/kg

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

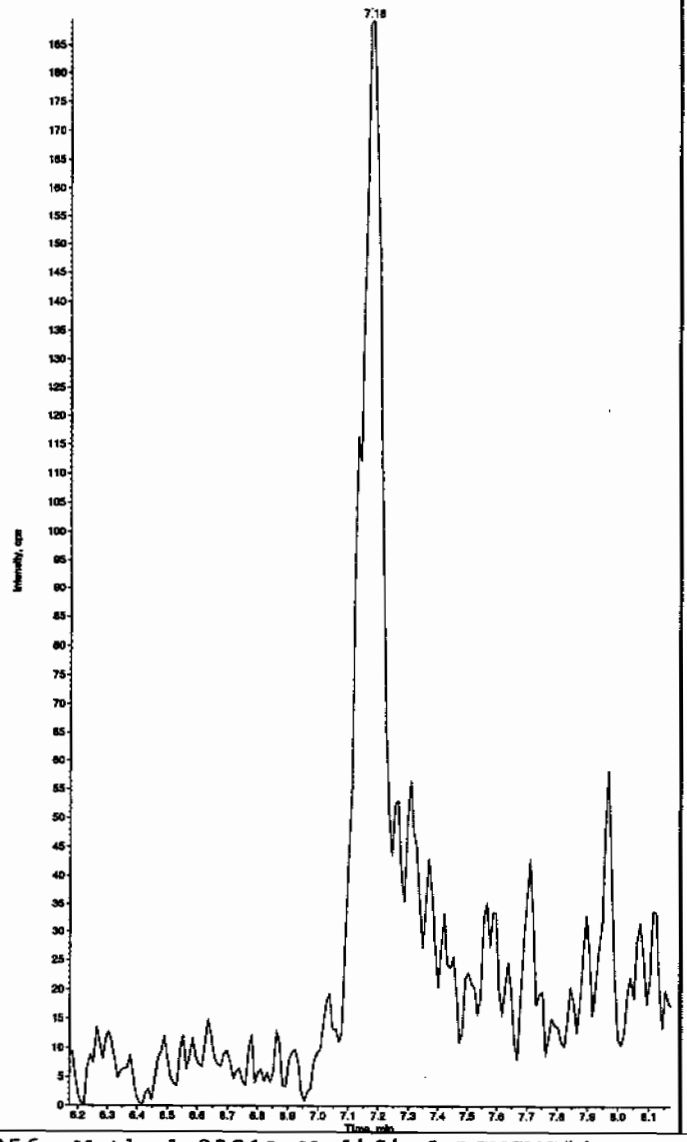
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Lcr 2/15/10

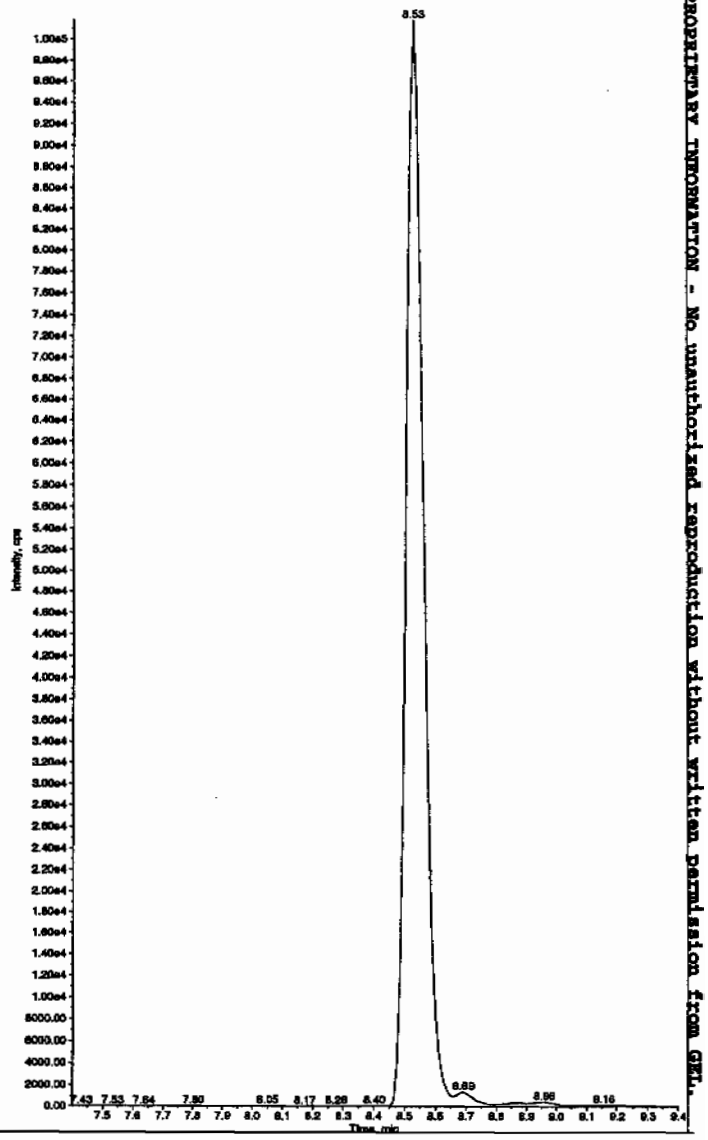
Sample Name: "245686013" Sample ID: "947078[2]LER" File: "EXS02130034.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:50:58 PM

Modified: No



Sample Name: "245686013" Sample ID: "947078[2]LER" File: "EXS02130034.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:50:58 PM

Modified: No



Hum 02/16/10

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

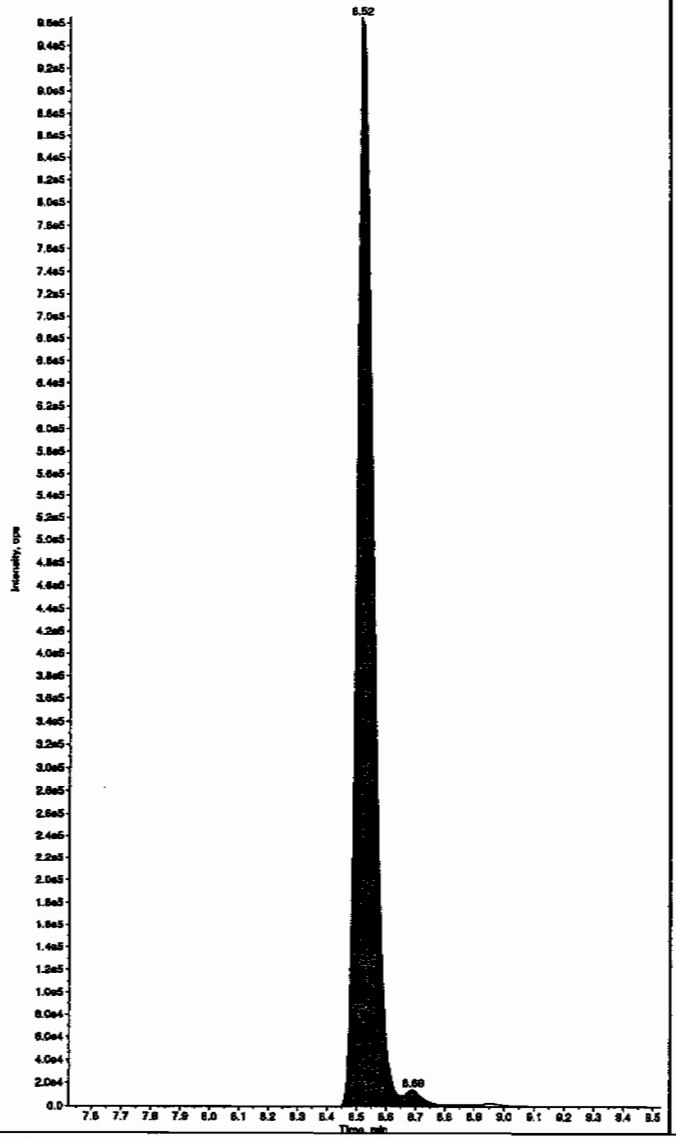
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "245686013" Sample ID: "947078[2]LER" File: "EXS02130034.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 335. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:50:58 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: 8.53 min
Use Relative RT: No

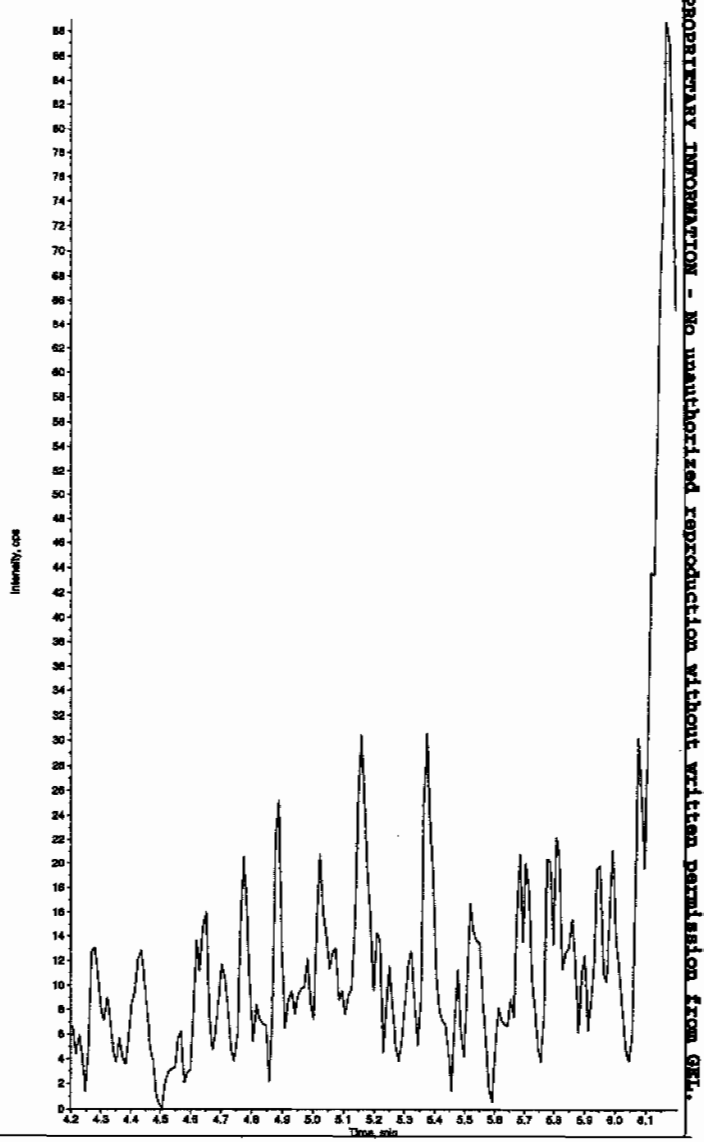
Int. Type: Valley
Retention Time: 8.52 min
Area: 3.94e+006 counts
Height: 966002.502 cps
Start Time: 8.41 min
End Time: 8.88 min



Sample Name: "245686013" Sample ID: "947078[2]LER" File: "EXS02130034.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "168.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:50:58 PM

Modified: No



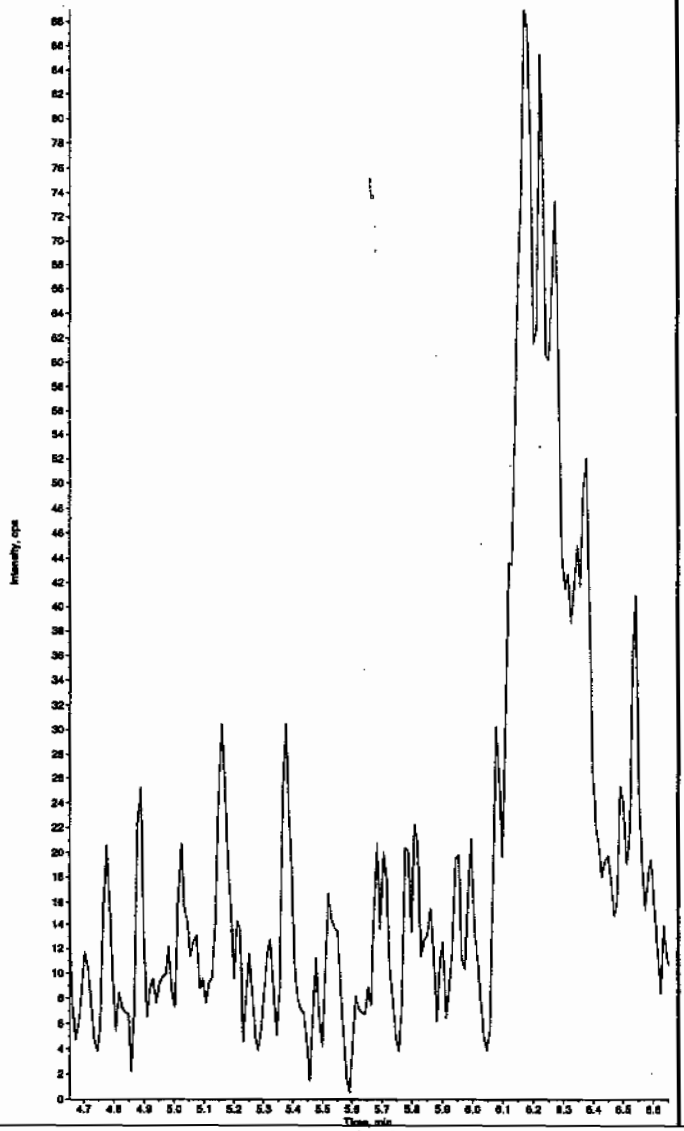
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

Sample Name: "245586013" Sample ID: "947078[2]LER" File: "EXS02130034.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:50:58 PM

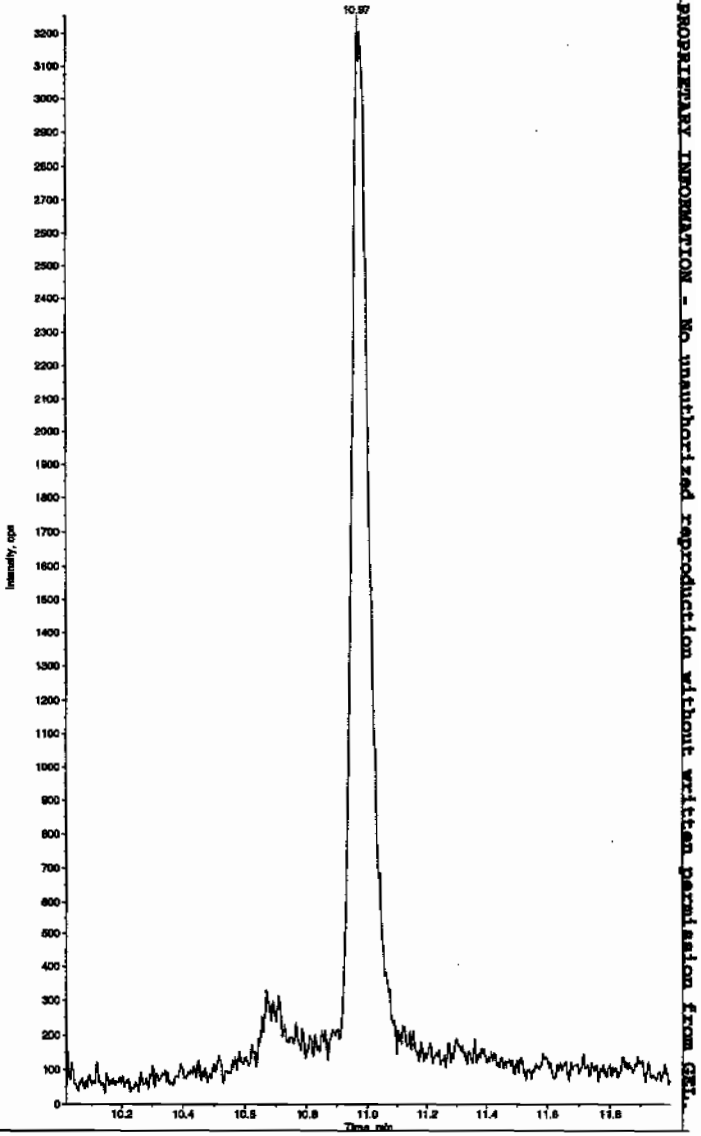
Modified: No



Sample Name: "245586013" Sample ID: "947078[2]LER" File: "EXS02130034.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 6:50:58 PM

Modified: No



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8057

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686014

Sample Amount 2

Moisture: 29.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208203a

Date Analyzed: 12-FEB-10 18:06

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 =

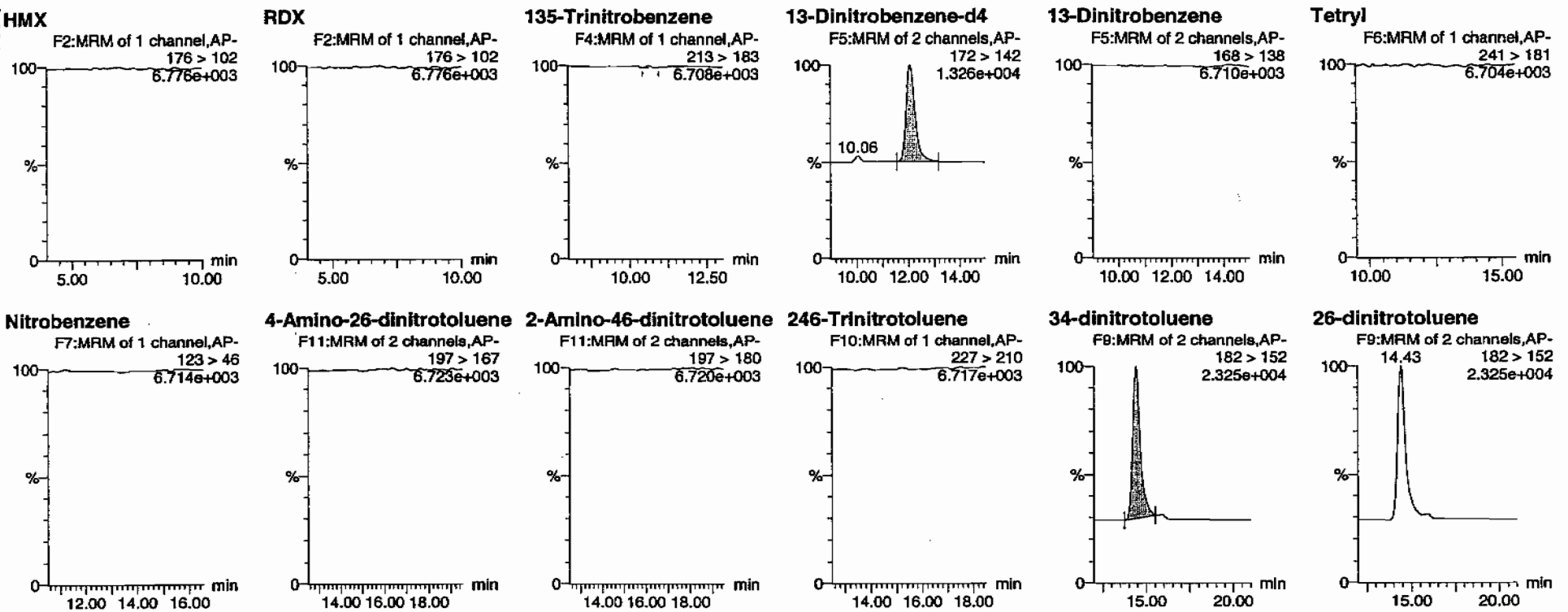
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208203a
Date: 12-Feb-2010
Time: 18:06:28
ID: 245686014
Vial: 4:7,A

| LANL | 947078 | SOLID | 2 |

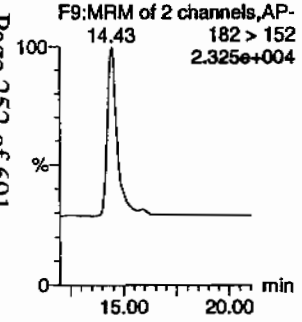
MAP 2/13/10



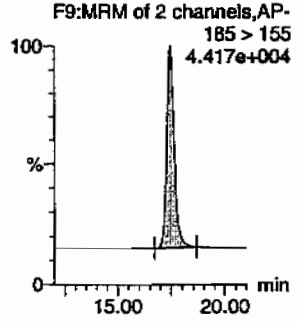
AMC 02/13/10

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

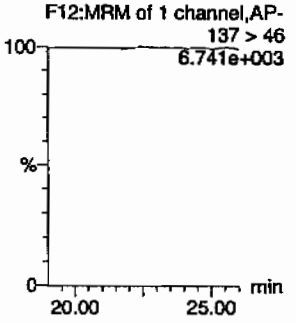
24-dinitrotoluene



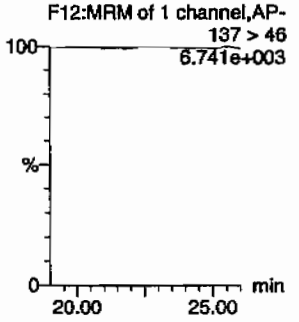
26-dinitrotoluene-d3



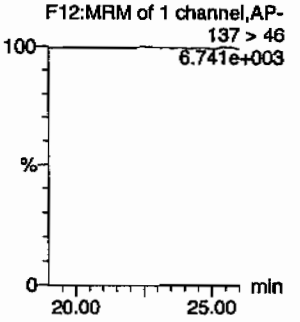
2-Nitrotoluene



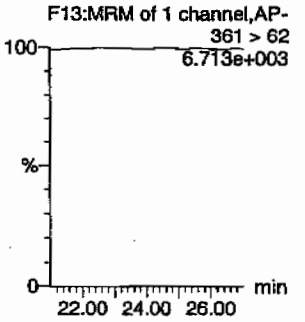
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
245686014	HMX	176 > 102			2723.031									
245686014	RDX	176 > 102			2723.031									
245686014	135-Trinitrobenzene	213 > 183			2723.031			MM-	13-Feb-10	09:16:12				
245686014	13-Dinitrobenzene-d4	172 > 142	12.07	2723.031		2723.031	2723.031	bb			423.5447	84.7	-15.3	180.8
245686014	13-Dinitrobenzene	168 > 138			2723.031									
245686014	Tetryl	241 > 181			2723.031									
245686014	Nitrobenzene	123 > 46			2723.031									
245686014	4-Amino-26-dinitrotoluene	197 > 167			15060.316									
245686014	2-Amino-46-dinitrotoluene	197 > 180			15060.316									
245686014	246-Trinitrotoluene	227 > 210			15060.316									
245686014	34-dinitrotoluene	182 > 152	14.43	8175.587	15060.316	8175.587	271.428	bb			301.5895	120.6	20.6	658.5
245686014	26-dinitrotoluene	182 > 152			15060.316									
245686014	24-dinitrotoluene	182 > 152			15060.316									
245686014	26-dinitrotoluene-d3	185 > 155	17.47	15060.316		15060.316	15060.316	bb			407.9246	81.6	-18.4	921.1
245686014	2-Nitrotoluene	137 > 46			15060.316									
245686014	4-Nitrotoluene	137 > 46			15060.316									
245686014	3-Nitrotoluene	137 > 46			15060.316									
245686014	PETN	361 > 62			15060.316									

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8057

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 245686014

Sample Amount 2

Moisture: 29.8

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130035.wiff

Date Analyzed: 13-FEB-10 19:06

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 =

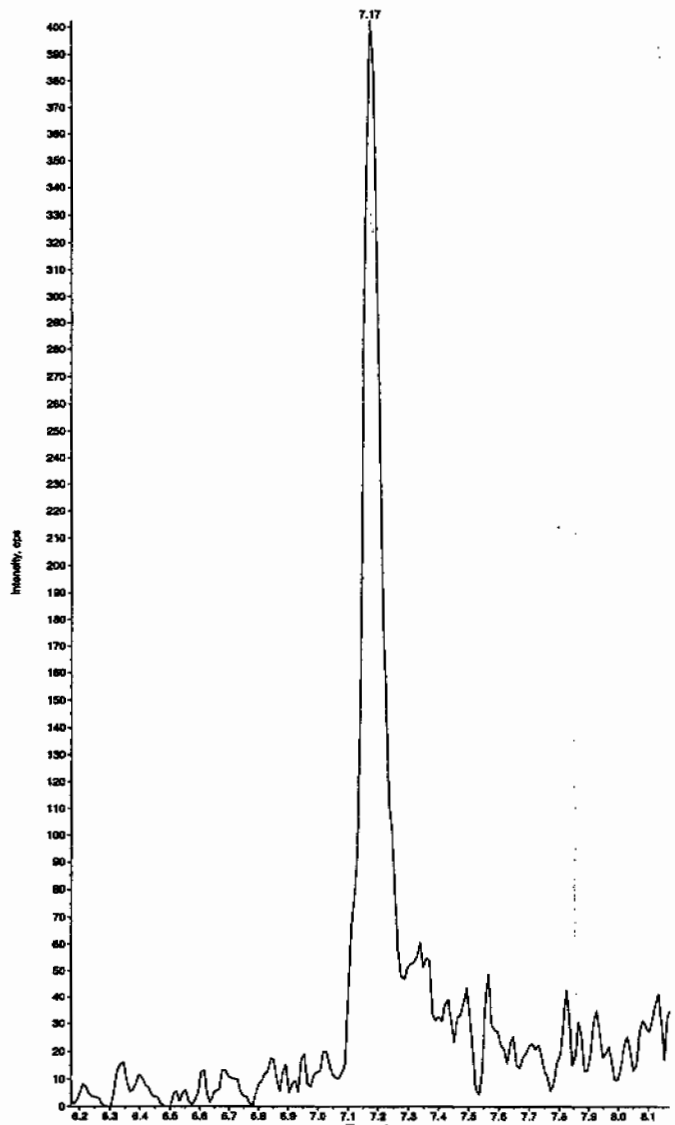
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

Lcu 2/15/10

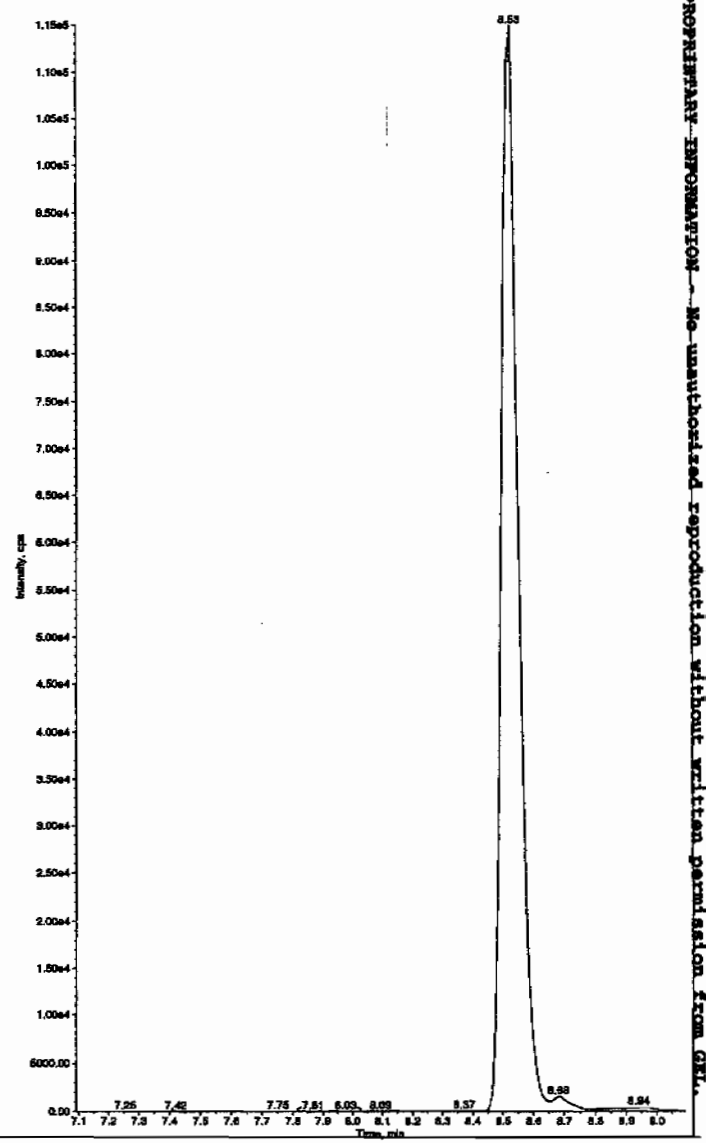
Sample Name: "245686014" Sample ID: "947078[2]LER" File: "EXS02130035.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:06:38 PM

Modified: No



Sample Name: "245686014" Sample ID: "947078[2]LER" File: "EXS02130035.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:06:38 PM

Modified: Yes



Hnm 02/16/10

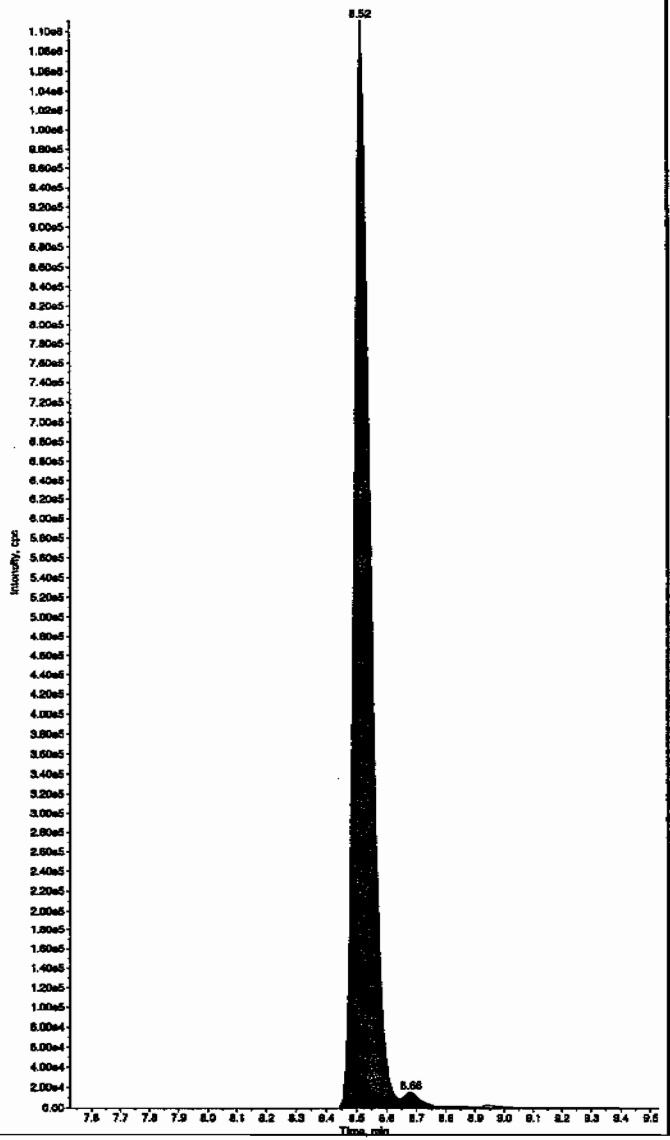
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "245686014" Sample ID: "9470782|LER" File: "EXS02130035.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 373. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:06:38 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: 8.53 min
Use Relative RT: No

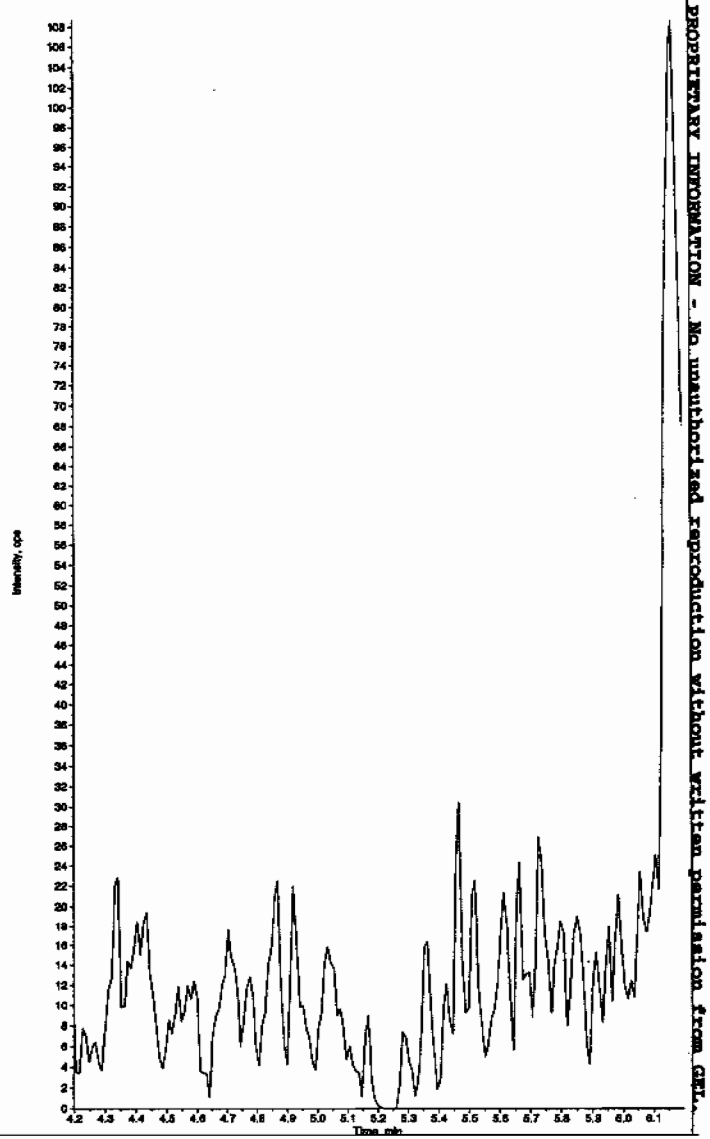
Int. Type: Valley
Retention Time: 8.52 min
Area: 4.37e+006 counts
Height: 1111569.702 cps
Start Time: 8.37 min
End Time: 8.85 min



Sample Name: "245686014" Sample ID: "9470782|LER" File: "EXS02130035.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:06:38 PM

Modified: No



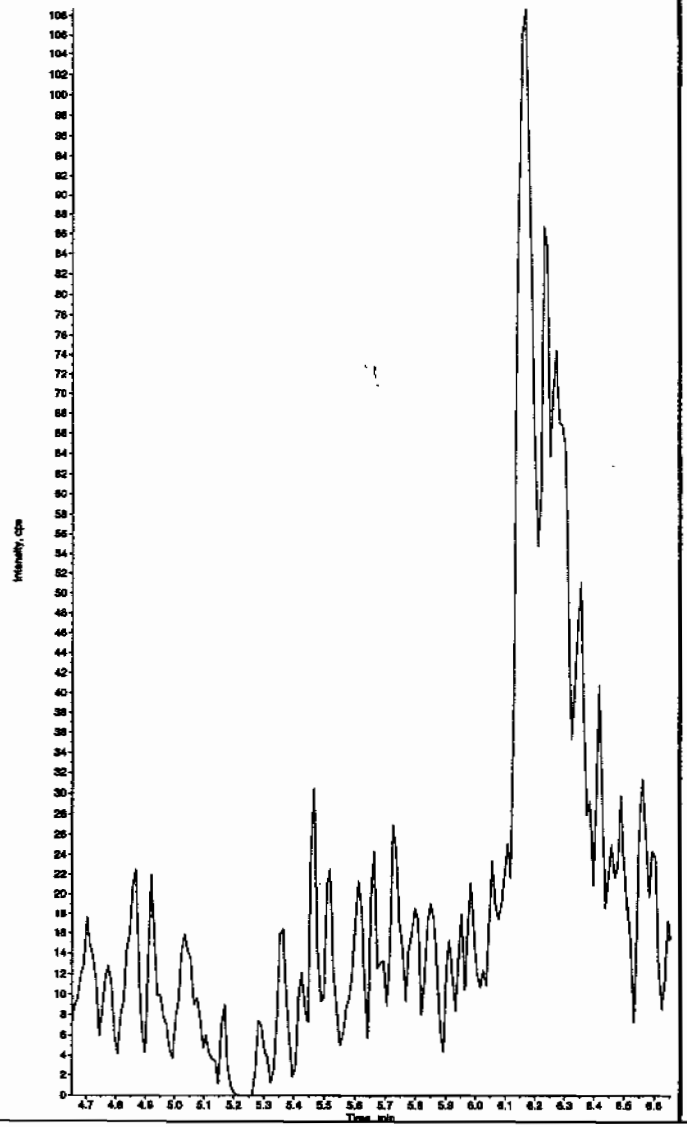
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

Sample Name: "245686014" Sample ID: "947078|2|LER" File: "EXS02130035.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:06:38 PM

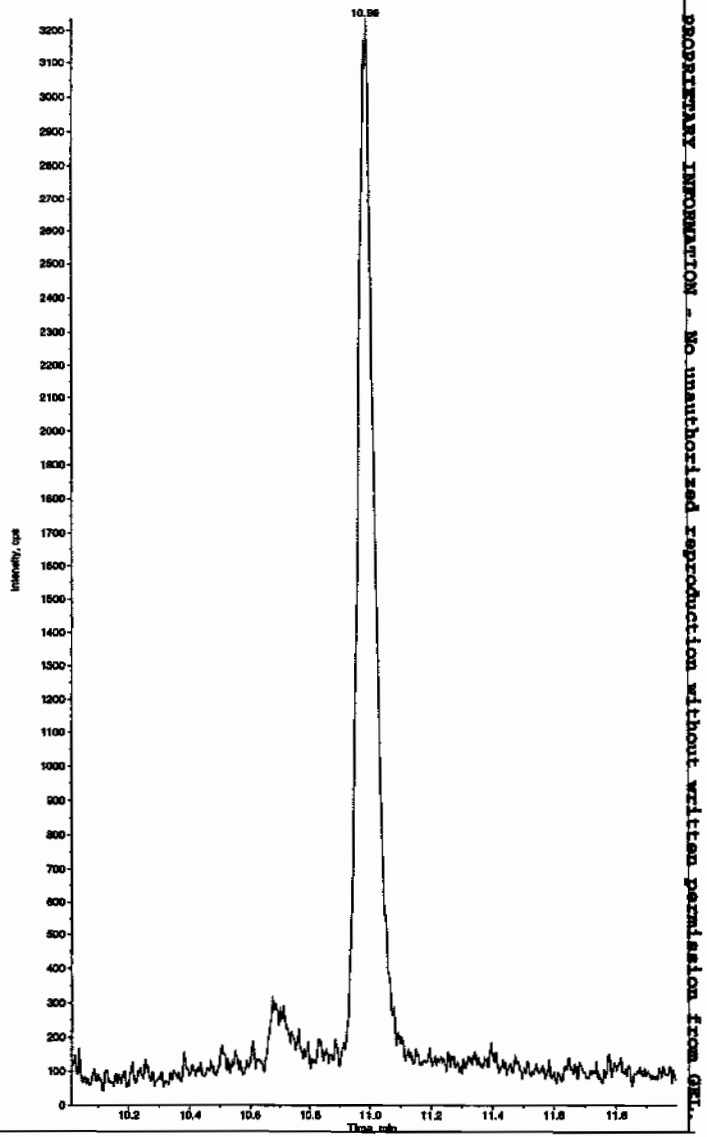
Modified: No



Sample Name: "245686014" Sample ID: "947078|2|LER" File: "EXS02130035.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:06:38 PM

Modified: No



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

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

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

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)

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

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1432

Lab Code: GEL

Run Date: 08-FEB-10,13-FEB-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Calibration Level:	1	2	3	4	5	6	Ave RF	RSD	Q
Data File:	EXP0208003a	EXP0208004a	EXP0208005a	EXP0208006a	EXP0208007a	EXP0208008a			
Parmname									
1,3,5-Trinitrobenzene	3.548	3.943	4.247	3.451	3.361	3.547	3.683	9.244	
1,3-Dinitrobenzene-d4	6.149	6.436	6.465	6.633	6.717	6.174	6.429	3.612	
2,4,6-Trinitrotoluene	.299	.308	.311	.323	.348	.347	0.323	6.431	
2,4-Dinitrotoluene	.243	.236	.232	.24	.256	.258	0.244	4.271	
2,6-Dinitrotoluene	1.071	1.092	1.008	1.066	1.112	1.095	1.074	3.4	
2,6-Dinitrotoluene-d3	34.376	37.613	37.768	39.993	37.032	34.734	36.919	5.669	
2-Amino-4,6-dinitrotoluene	.361	.359	.391	.411	.422	.432	0.396	7.897	
3,4-Dinitrotoluene	.793	.884	.838	.907	.976	1	0.900	8.794	
4-Amino-2,6-dinitrotoluene	.279	.278	.264	.289	.311	.303	0.287	6.027	
HMX	3.402	3.005	4.021	3.584	3.432	3.392	3.473	9.511	
Nitrobenzene	.773	.761	.821	.856	.825	.812	0.808	4.332	
RDX	2.405	2.171	2.783	2.361	2.379	2.47	2.428	8.269	
m-Dinitrobenzene	1.257	1.065	1.193	1.226	1.214	1.259	1.202	5.994	
m-Nitrotoluene	.103	.107	.082	.087	.09	.089	0.093	10.689	
o-Nitrotoluene	.173	.148	.144	.152	.156	.157	0.155	6.405	
p-Nitrotoluene	.071	.091	.069	.074	.076	.075	0.076	10.145	

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

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

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC **GEL Job No:** 10-1432

Lab Code: GEL **Run Date:** 08-FEB-10,13-FEB-10

LCMSMS Instrument ID: LCMSMS **Method:** 8321A Modified **HPLC Column:** Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

Calibration Level:	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Data File:	EXP0208003a	EXP0208004a	EXP0208005a	EXP0208006a	EXP0208007a	EXP0208008a					
Parmname:											
PETN	1686.42	3643.3	12841.7	23262.7	39238.6	44182	1.544	-.0002977	21.056	.9994	
Tetryl	213.659	359.657	1210.76	2567.13	4763.44	5400.44	.962	-.0000981	8.004	.9996	

Quadradic 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

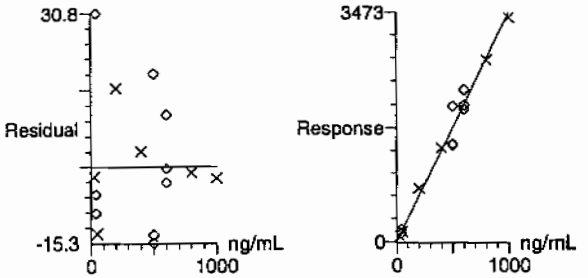
Q column used to flag COD outside of Limit (<0.990)
* Values outside of QC Limit

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

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

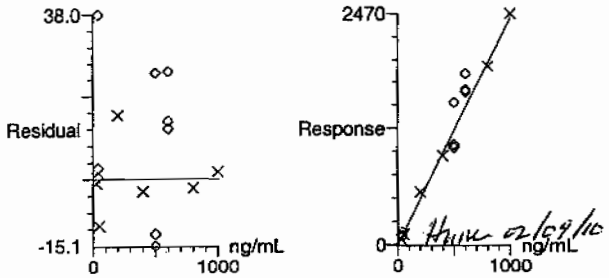
Method: C:\MASSLYNX\New_Exp.PRO\MethDB\020810expa.mdb, Time: Tue Feb 09 09:17:48 2010
Calibration: Untitled, Time: Tue Feb 09 10:19:05 2010

Compound name: HMX
Response Factor: 3.4728
RRF SD: 0.330307, % Relative SD: 9.51126
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



MM 2/9/10

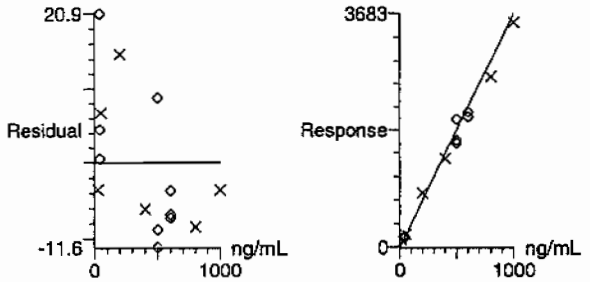
Compound name: RDX
Response Factor: 2.42814
RRF SD: 0.200785, % Relative SD: 8.26908
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



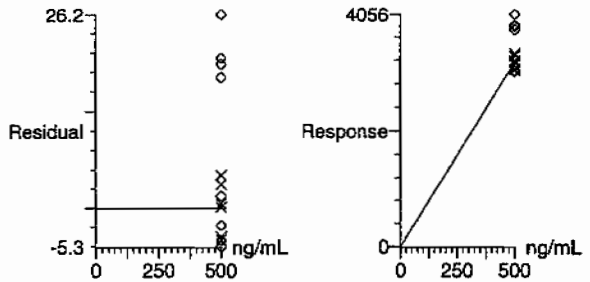
MM 02/09/10

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

Compound name: 135-Trinitrobenzene
Response Factor: 3.68306
RRF SD: 0.340458, % Relative SD: 9.2439
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

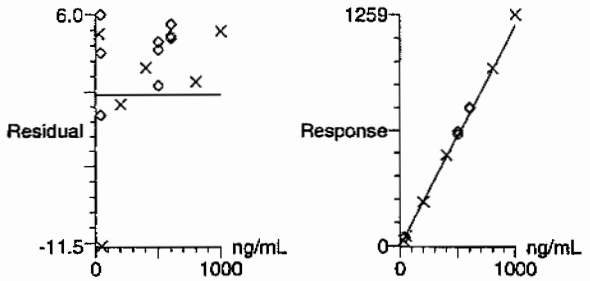


Compound name: 13-Dinitrobenzene-d4
Response Factor: 6.42915
RRF SD: 0.232214, % Relative SD: 3.6119
Response type: External Std, Area
Curve type: RF

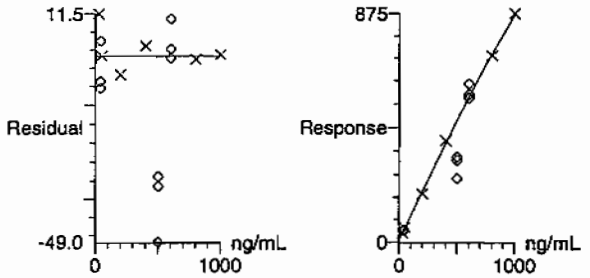


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Compound name: 13-Dinitrobenzene
Response Factor: 1.2024
RRF SD: 0.0720671, % Relative SD: 5.99362
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

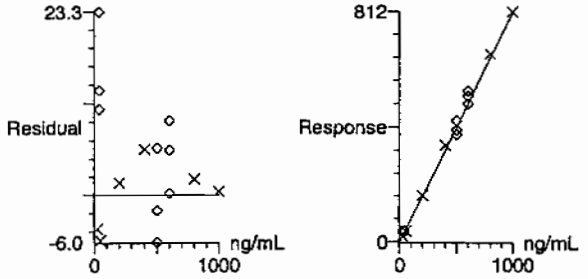


Compound name: Tetryl
Coefficient of Determination: 0.999624
Calibration curve: -9.80877e-005 * x^2 + 0.962233 * x + 8.00395
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None

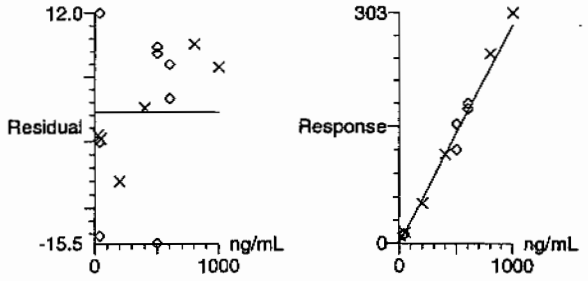


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Compound name: Nitrobenzene
Response Factor: 0.807771
RRF SD: 0.034992, % Relative SD: 4.33192
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

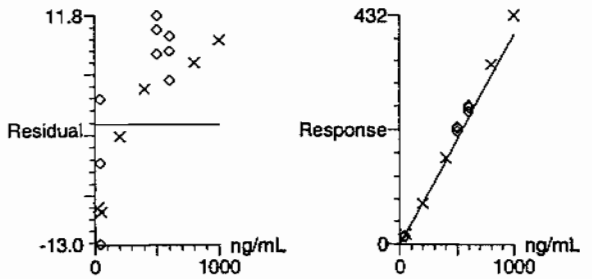


Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.287245
RRF SD: 0.0173125, % Relative SD: 6.02707
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

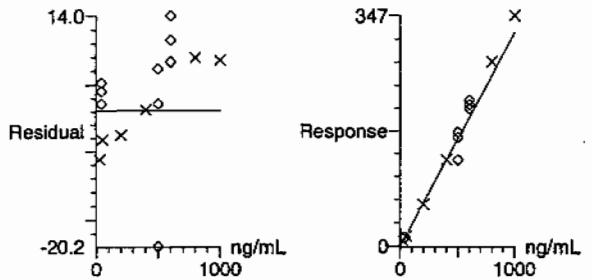


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.39603
RRF SD: 0.0312733, % Relative SD: 7.8967
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

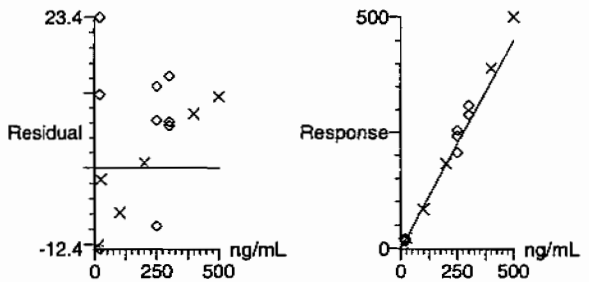


Compound name: 246-Trinitrotoluene
Response Factor: 0.322663
RRF SD: 0.0207501, % Relative SD: 6.43088
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

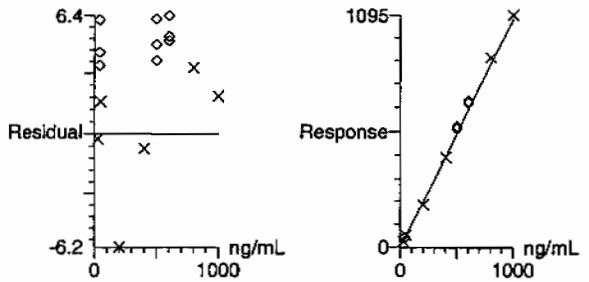


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Compound name: 34-dinitrotoluene
Response Factor: 0.899992
RRF SD: 0.0791463, % Relative SD: 8.79411
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

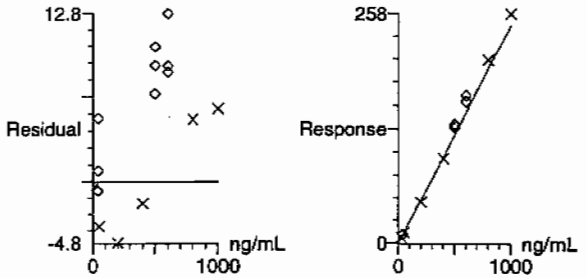


Compound name: 26-dinitrotoluene
Response Factor: 1.07409
RRF SD: 0.0365192, % Relative SD: 3.40002
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

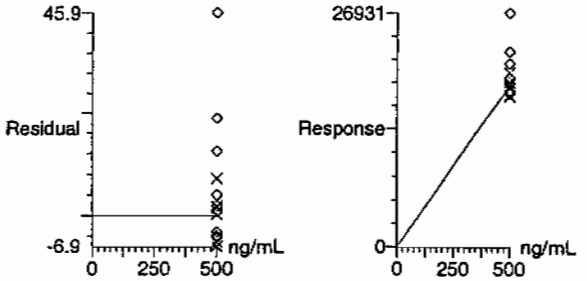


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Compound name: 24-dinitrotoluene
Response Factor: 0.244052
RRF SD: 0.010423, % Relative SD: 4.27082
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

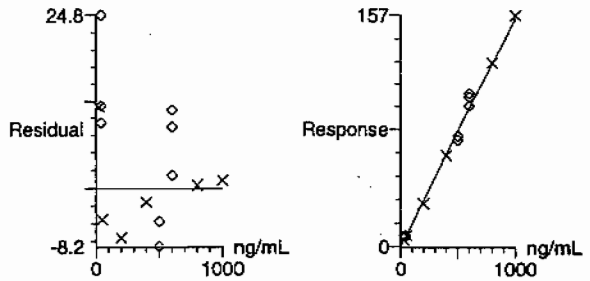


Compound name: 26-dinitrotoluene-d3
Response Factor: 36.9194
RRF SD: 2.09302, % Relative SD: 5.66917
Response type: External Std, Area
Curve type: RF

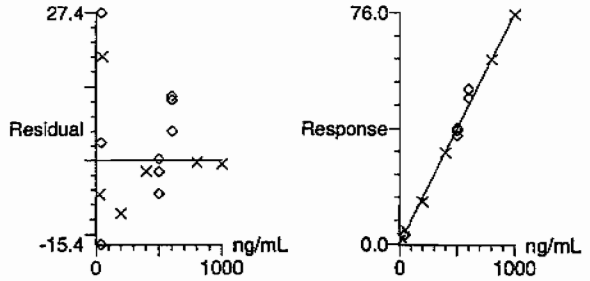


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Compound name: 2-Nitrotoluene
Response Factor: 0.155048
RRF SD: 0.00993156, % Relative SD: 6.40546
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

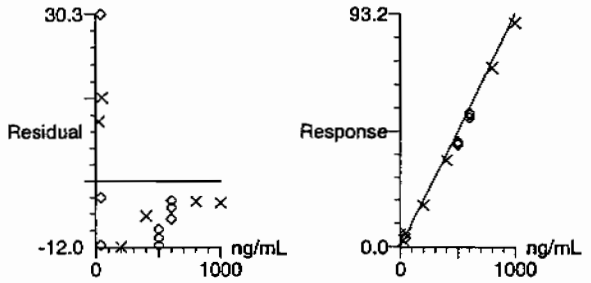


Compound name: 4-Nitrotoluene
Response Factor: 0.0760026
RRF SD: 0.00771034, % Relative SD: 10.1448
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

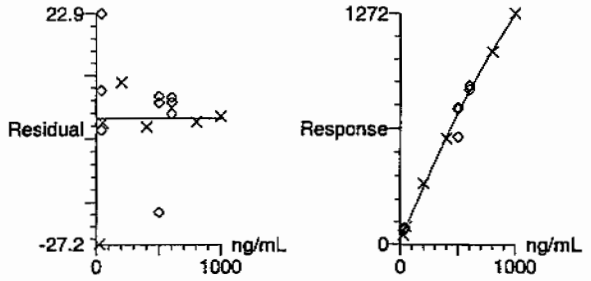


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Compound name: 3-Nitrotoluene
Response Factor: 0.0931713
RRF SD: 0.0099588, % Relative SD: 10.6887
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Coefficient of Determination: 0.999420
Calibration curve: -0.000297734 * x^2 + 1.54409 * x + 21.0556
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



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

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

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0208010a

Analysis Date: 08-FEB-10 19:10

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

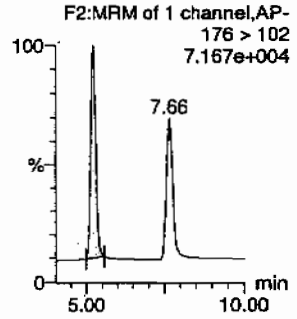
Compound	True	Found	Recovery	Q
Nitrobenzene	600	634.828	106	
PETN	600	620.504	103	
RDX	600	679.292	113	
Tetryl	600	611.62	102	
m-Dinitrobenzene	600	625.274	104	
m-Nitrotoluene	600	570.29	95	
o-Nitrotoluene	600	651.604	109	
p-Nitrotoluene	600	672.143	112	
1,3,5-Trinitrobenzene	600	577.44	96	
1,3-Dinitrobenzene-d4	500	477.774	96	
2,4,6-Trinitrotoluene	600	643.695	107	
2,4-Dinitrotoluene	600	652.405	109	
2,6-Dinitrotoluene	600	631.529	105	
2,6-Dinitrotoluene-d3	500	481.745	96	
2-Amino-4,6-dinitrotoluene	600	657.981	110	
3,4-Dinitrotoluene	300	321.546	107	
4-Amino-2,6-dinitrotoluene	600	609.28	102	
HMX	600	598.223	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

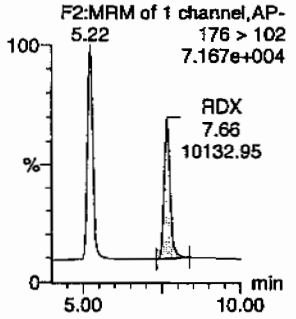
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208010a
Date: 08-Feb-2010
Time: 19:10:05
ID: WXX100208-07ICV
Vial: 1:1,B

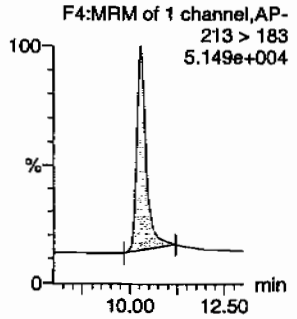
HMX



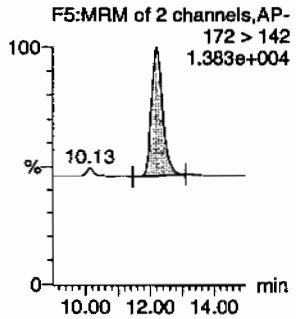
RDX



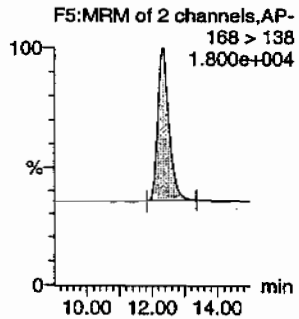
135-Trinitrobenzene



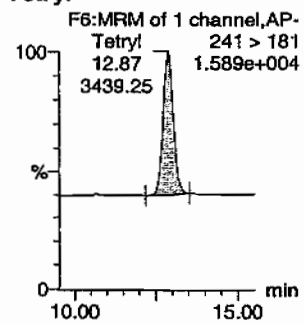
13-Dinitrobenzene-d4



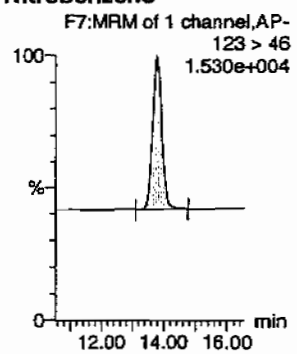
13-Dinitrobenzene



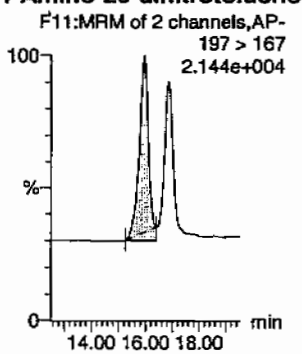
Tetryl



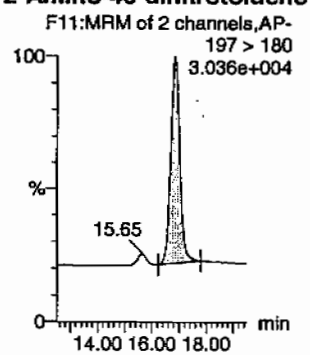
Nitrobenzene



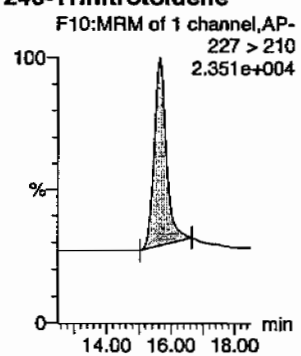
4-Amino-26-dinitrotoluene



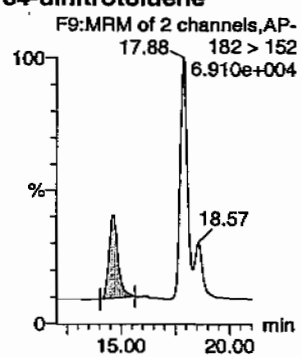
2-Amino-46-dinitrotoluene



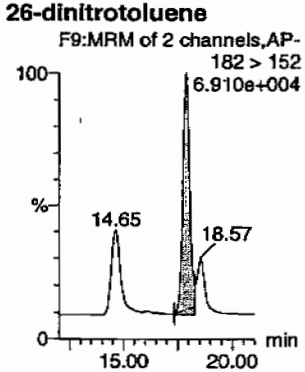
246-Trinitrotoluene



34-dinitrotoluene



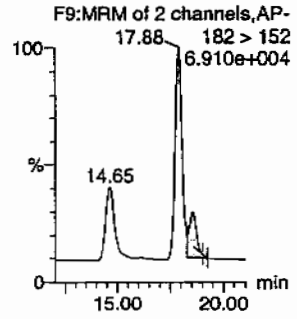
26-dinitrotoluene



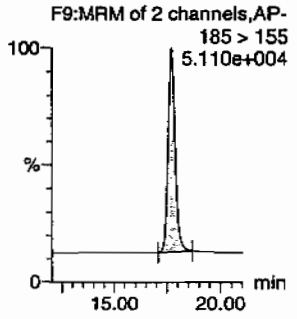
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

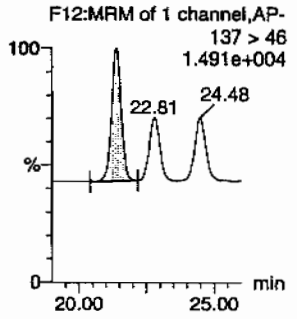
24-dinitrotoluene



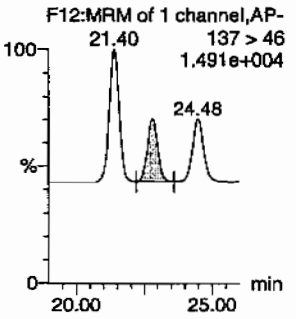
26-dinitrotoluene-d3



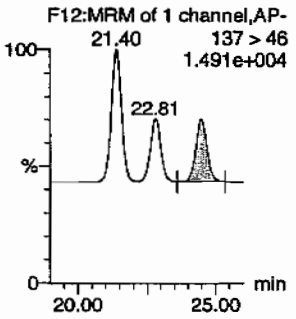
2-Nitrotoluene



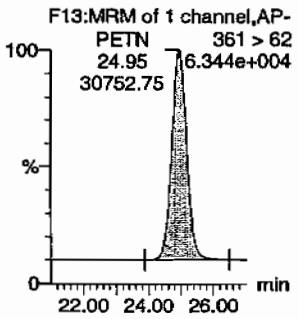
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07ICV	HMX	176 > 102	5.22	12762.877	3071.677	12762.877	2077.510	bb			598.2226	99.7	-0.3	901.4
WXX100208-07ICV	RDX	176 > 102	7.66	10132.953	3071.677	10132.953	1649.417	bb			679.2915	113.2	13.2	602.3
WXX100208-07ICV	135-Trinitrobenzene	213 > 183	10.30	13065.338	3071.677	13065.338	2126.743	bb			577.4399	96.2	-3.8	1489.3
WXX100208-07ICV	13-Dinitrobenzene-d4	172 > 142	12.21	3071.677		3071.677	3071.677	bb			477.7736	95.6	-4.4	264.9
WXX100208-07ICV	13-Dinitrobenzene	168 > 138	12.34	4618.735	3071.677	4618.735	751.826	bb			625.2737	104.2	4.2	460.8
WXX100208-07ICV	Tetryl	241 > 181	12.87	3439.246	3071.677	3439.246	559.832	bb			611.6196	101.9	1.9	207.7
WXX100208-07ICV	Nitrobenzene	123 > 46	13.76	3150.282	3071.677	3150.282	512.795	bb			634.8275	105.8	5.8	437.9
WXX100208-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.95	6225.456	17785.730	6225.456	175.013	MM	09-Feb-10	10:07:09	609.2803	101.5	1.5	219.6
WXX100208-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.84	9269.226	17785.730	9269.226	260.580	bb			657.9810	109.7	9.7	257.1
WXX100208-07ICV	246-Trinitrotoluene	227 > 210	15.64	7388.070	17785.730	7388.070	207.697	bb			643.6946	107.3	7.3	286.9
WXX100208-07ICV	34-dinitrotoluene	182 > 152	14.65	10293.978	17785.730	10293.978	289.389	bb			321.5458	107.2	7.2	346.9
WXX100208-07ICV	26-dinitrotoluene	182 > 152	17.88	24128.742	17785.730	24128.742	678.317	MM	09-Feb-10	10:13:53	631.5288	105.3	5.3	1020.2
WXX100208-07ICV	24-dinitrotoluene	182 > 152	18.57	5663.705	17785.730	5663.705	159.220	MM	09-Feb-10	10:16:51	652.4052	108.7	8.7	223.1
WXX100208-07ICV	26-dinitrotoluene-d3	185 > 155	17.71	17785.730		17785.730	17785.730	bb			481.7453	96.3	-3.7	1501.7
WXX100208-07ICV	2-Nitrotoluene	137 > 46	21.40	3593.784	17785.730	3593.784	101.030	bb			651.6036	108.6	8.6	770.9
WXX100208-07ICV	4-Nitrotoluene	137 > 46	22.81	1817.156	17785.730	1817.156	51.085	bb			672.1432	112.0	12.0	368.6
WXX100208-07ICV	3-Nitrotoluene	137 > 46	24.48	1890.078	17785.730	1890.078	53.135	bb			570.2904	95.0	-5.0	366.4
WXX100208-07ICV	PETN	361 > 62	24.95	30752.746	17785.730	30752.746	864.534	bb			620.5038	103.4	3.4	4586.8

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/08/10
Time of Injection: 1910
Standard Number: WXX100208-07ICV
Data File: EXP0208010a

HMX		99.7
RDX		113.2
135-TNB		96.2
13-DNB		104.2
Tetryl		101.9
Nitrobenzene		105.8
4A-26-DNT		101.5
2A-46-DNT		109.7
246-TNT		107.3
34-DNT(surr)		107.2
26-DNT		105.3
24-DNT		108.7
2-NT		108.6
4-NT		112.0
3-NT		95.0
PETN		103.4
	Total	1679.7
	Average	105.0

MAT 2/9/10

Hmk 02/09/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1432

Lab Code: GEL

Run Date: 08-FEB-10,13-FEB-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	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS02130003.wiff	EXS02130004.wiff	EXS02130005.wiff	EXS02130006.wiff	EXS02130007.wiff	EXS02130008.wiff	EXS02130009.wiff					
Parmname:												
2,4-Diamino-6-nitrotoluene	69200	161000	406000	857000	1260000	1740000	3150000	-35800	1870	-.139	.9998	
2,6-Diamino-4-nitrotoluene	124000	261000	621000	1330000	1880000	2670000	5260000	-12700	2620	.009	.9997	
3,4-Dinitrotoluene	300000	580000	1420000	2730000	4160000	5660000	10400000	-67600	12700	-2.26	.9988	
3,5-Dinitroaniline	334000	612000	1410000	2880000	4620000	5850000	10700000	-60100	6420	-.509	.9996	
TATB	79400	155000	384000	753000	1200000	1510000	2940000	-5110	1600	-.063	.9997	
tris(o-cresyl) phosphate	1230000	2370000	5560000	10600000	15300000	19600000	31300000	36900	23300	-3.82	1	

Quadradic 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

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

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-5.11e+003			
a1	1.6e+003			
a2	-0.0629			

Correlation coefficient 0.9997
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-6.01e+004			
a1	6.42e+003			
a2	-0.509			

Correlation coefficient 0.9996
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-6.76e+004			
a1	1.27e+004			
a2	-2.26			

Correlation coefficient 0.9988
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.27e+004			
a1	2.62e+003			
a2	0.00918			

Correlation coefficient 0.9997
Use Area

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

Lan 2/15/10

Hmm 02/15/10

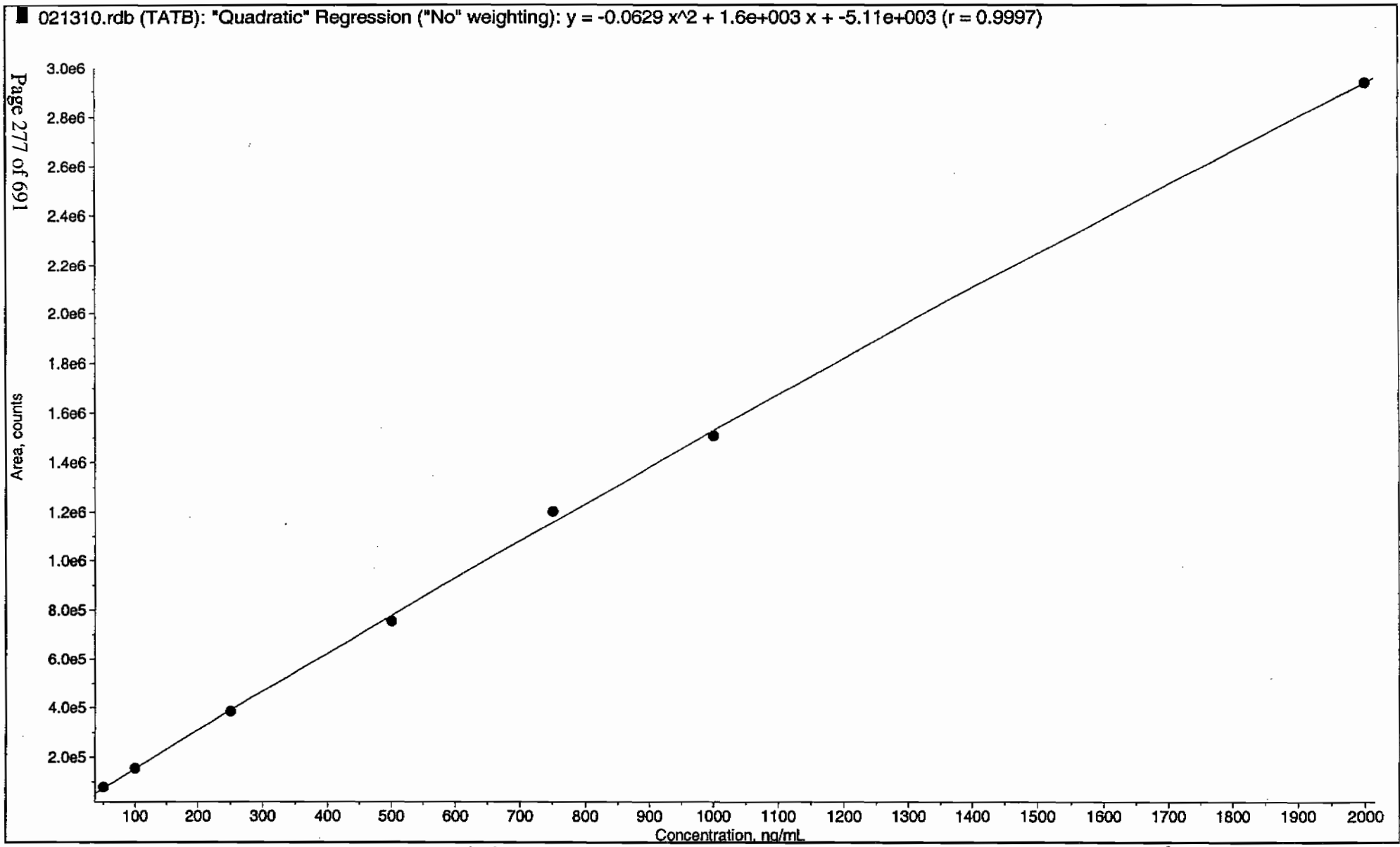
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Fit Quadratic Weighting None Iterate No
a0 -3.58e+004
a1 1.87e+003
a2 -0.139
Correlation coefficient 0.9998
Use Area

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

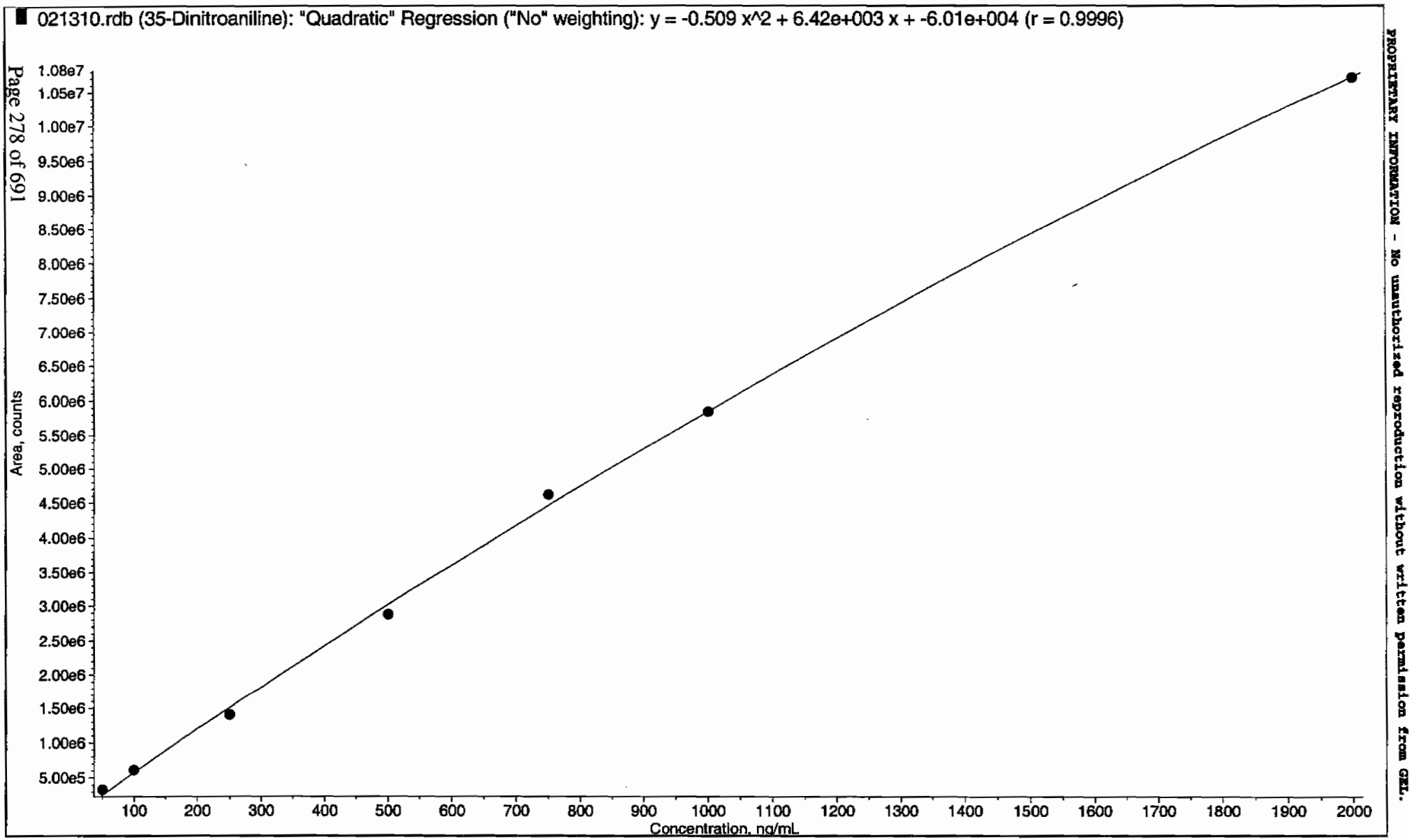
Fit Quadratic Weighting None Iterate No
a0 3.69e+004
a1 2.33e+004
a2 -3.82
Correlation coefficient 1.0000
Use Area

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



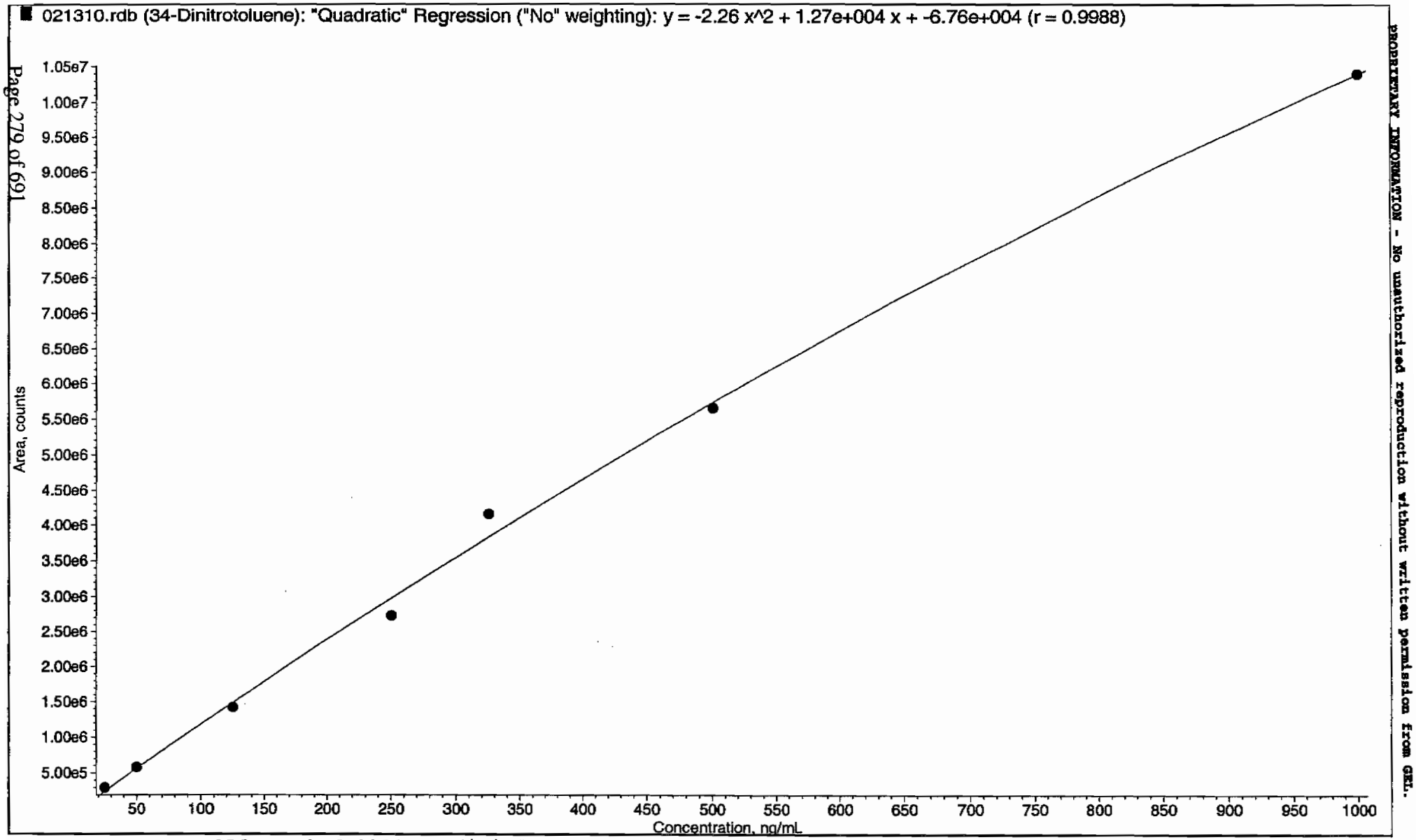
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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



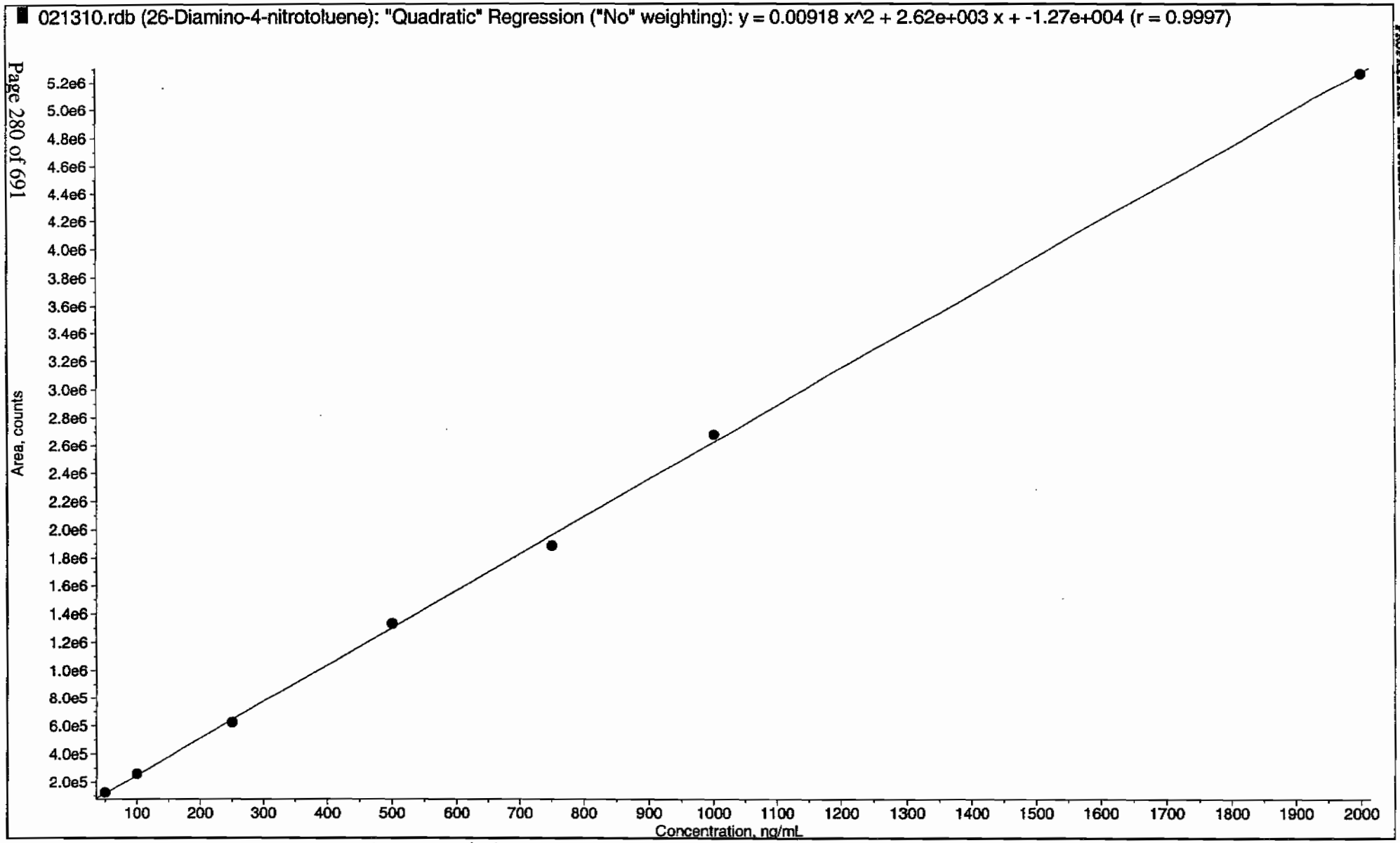
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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



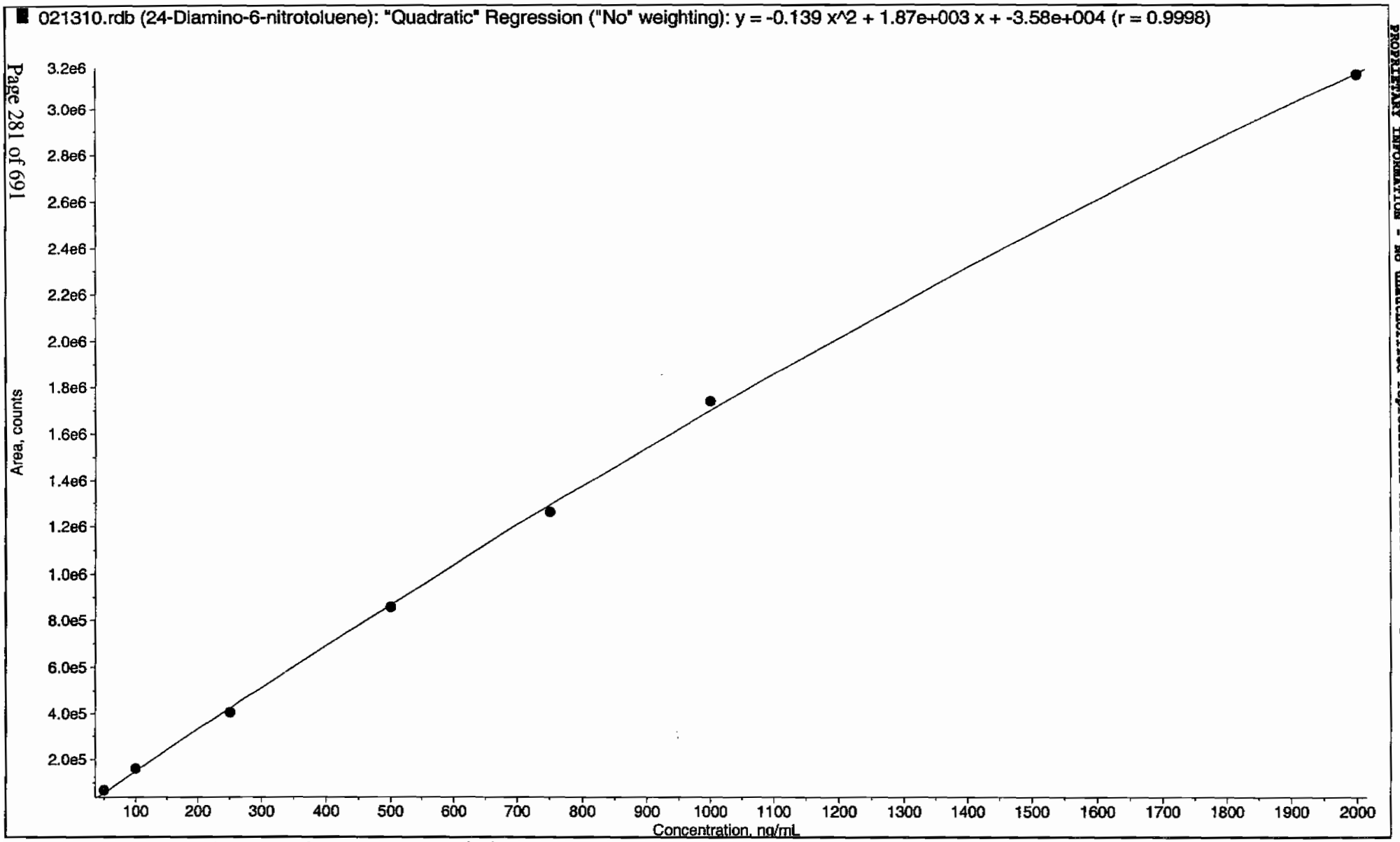
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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



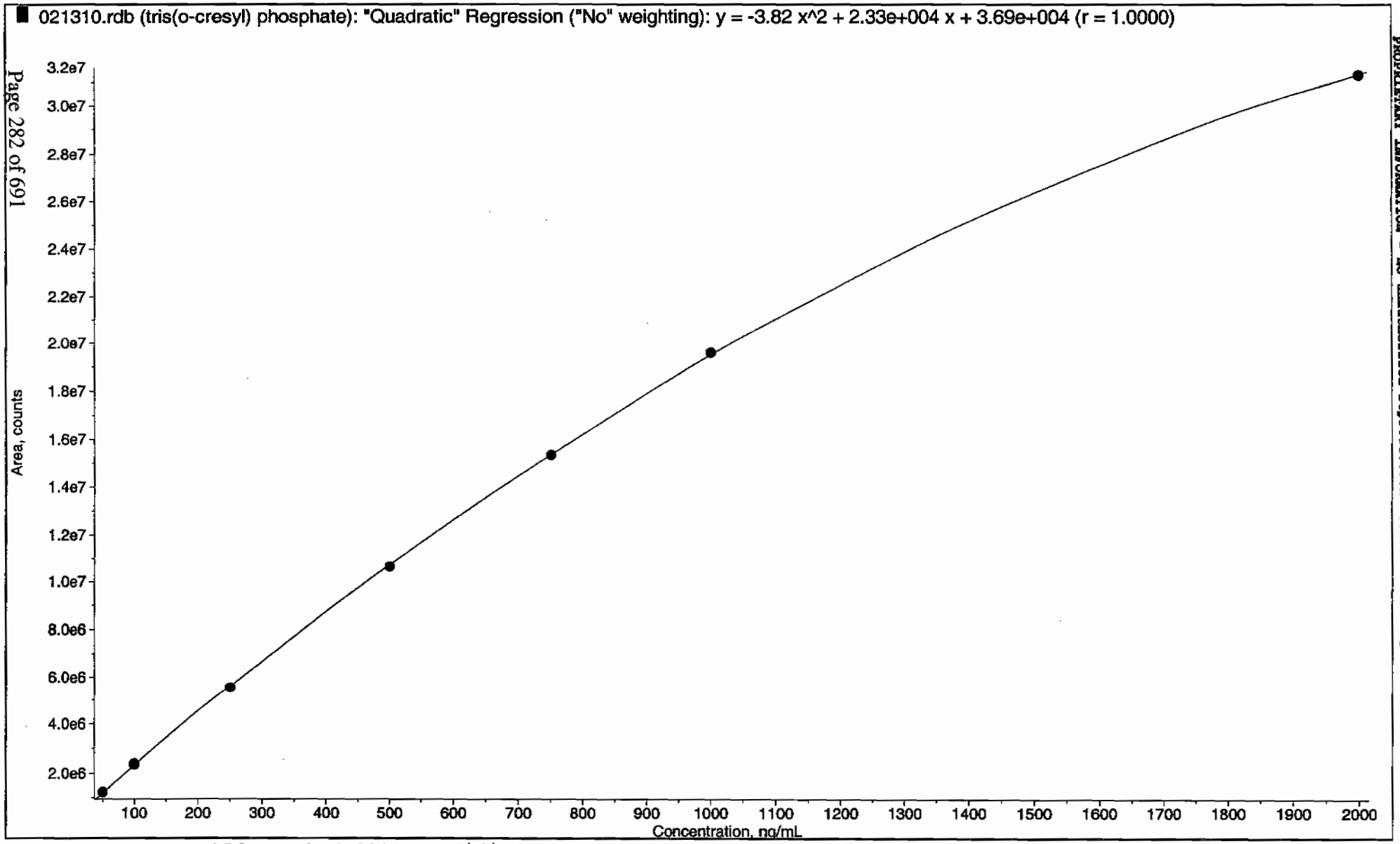
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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



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

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



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

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

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

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXICV

GEL Data File EXS02130011.wiff **Analysis Date:** 13-FEB-10 12:49

LCMSMS ID: 1358 **Column ID:** JSphere ODS-H80

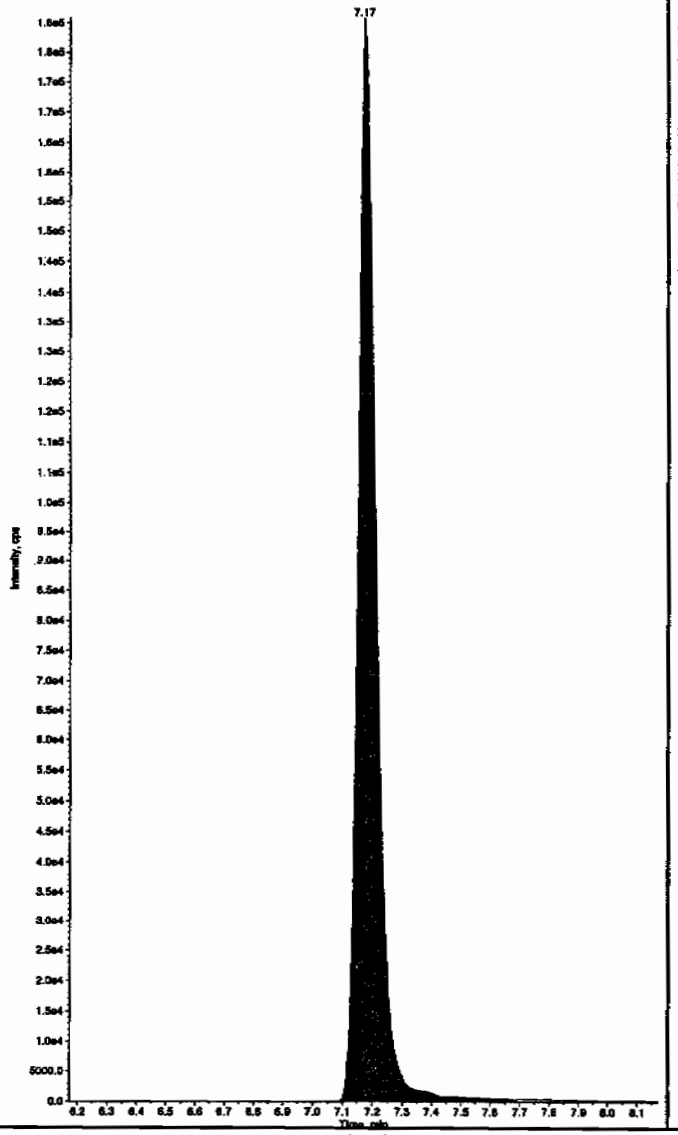
Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	509	102	
3,4-Dinitrotoluene	250	232	93	
3,5-Dinitroaniline	500	503	101	
TATB	500	514	103	
tris(o-cresyl) phosphate	500	501	100	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Before Run 2/15/10

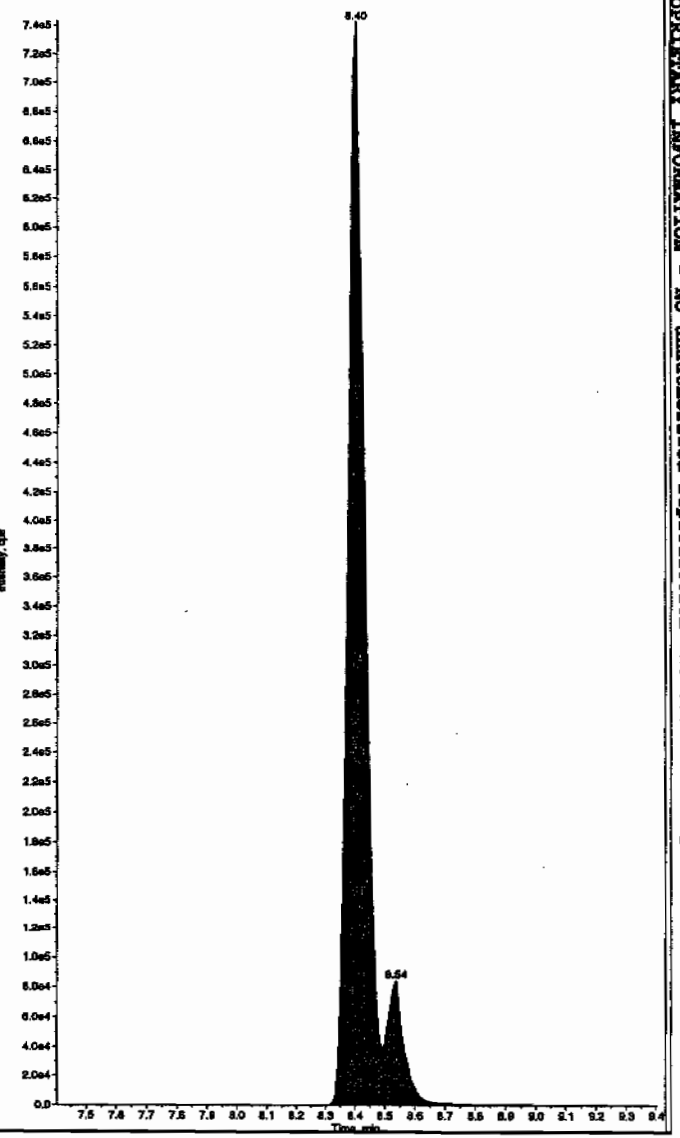
Sample Name: "WXX100213-26ICV" Sample ID: "[1]LER" File: "EXS02130011.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	514.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	12:49:53 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:	7.17	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	7.17	min
Area:	7.99e+005	counts
Height:	180853.271	cps
Start Time:	7.05	min
End Time:	7.69	min



Sample Name: "WXX100213-26ICV" Sample ID: "[1]LER" File: "EXS02130011.wiff"
Peak Name: "3S-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	565.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	12:49:53 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:	8.40	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	8.40	min
Area:	3.40e+006	counts
Height:	743256.653	cps
Start Time:	8.28	min
End Time:	8.82	min



Hnm 02/15/10

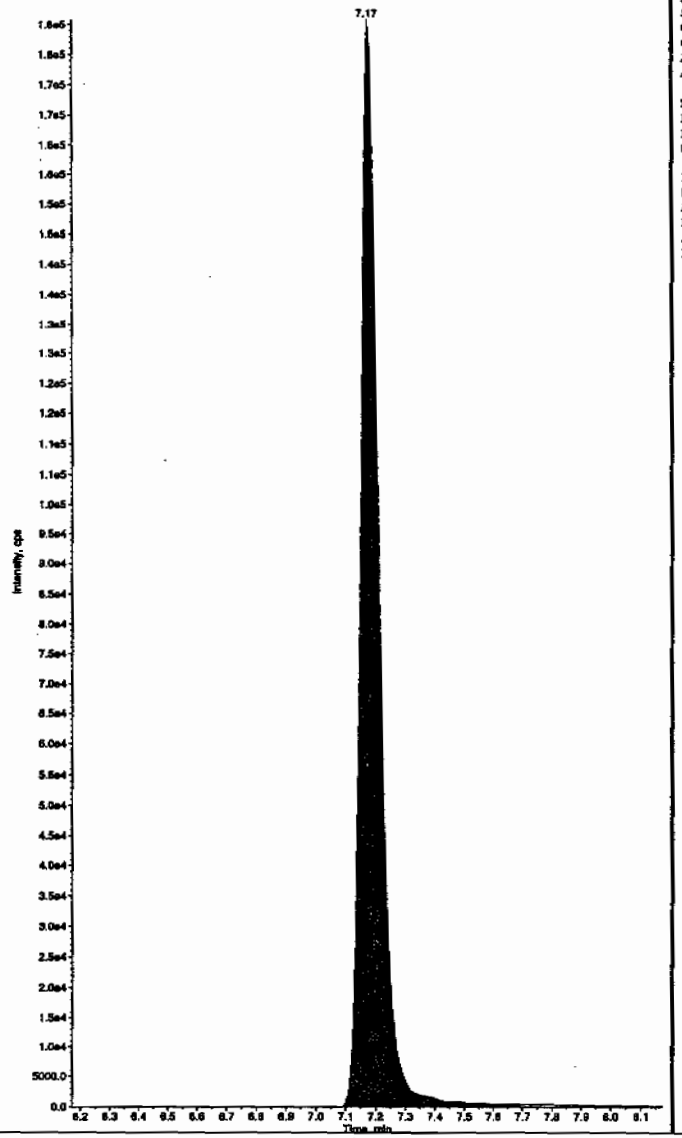
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

after scan 2/15/10

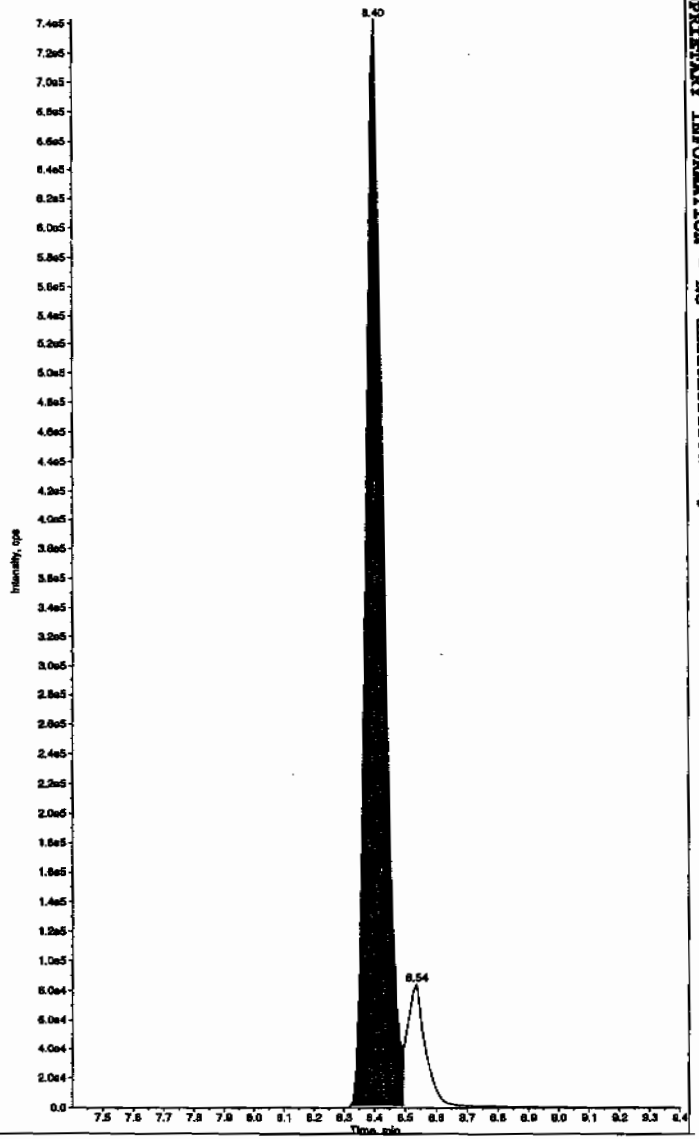
Sample Name: "WXX100213-26ICV" Sample ID: "|1|LER" File: "EXS02130011.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	514.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	12:49:53 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:	7.17	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	7.17	min
Area:	7.99e+005	counts
Height:	180853.271	cps
Start Time:	7.05	min
End Time:	7.69	min



Sample Name: "WXX100213-26ICV" Sample ID: "|1|LER" File: "EXS02130011.wiff"
Peak Name: "3S-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	503.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	12:49:53 PM	
Modified:	Yes	
RT Window:	15.0	sec
Expected RT:	8.40	min
Use Relative RT:	No	
Int. Type:	Manual	
Retention Time:	8.40	min
Area:	3.04e+006	counts
Height:	745932.363	cps
Start Time:	8.32	min
End Time:	8.50	min

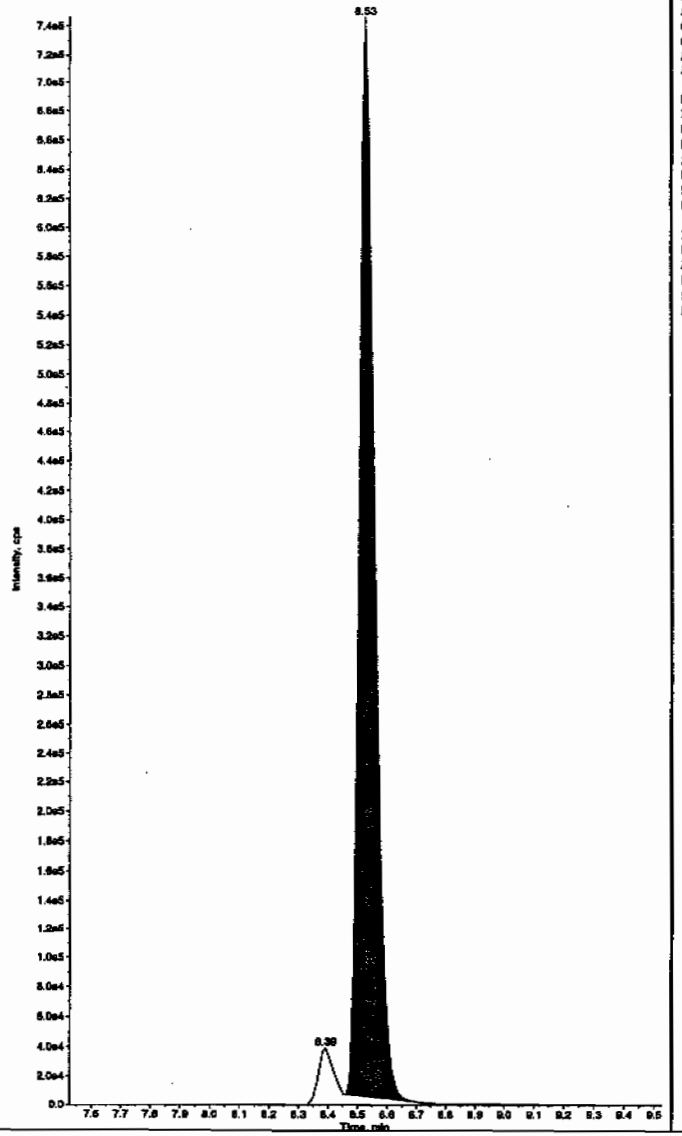


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

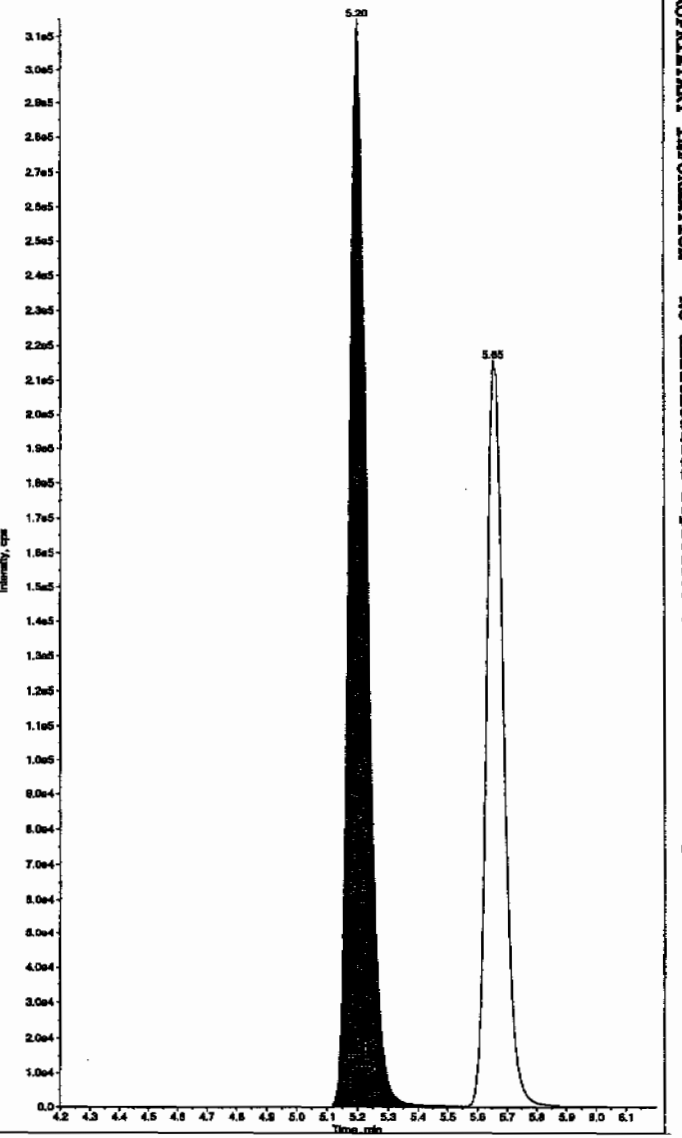
Sample Name: "WXX100213-26ICV" Sample ID: "[1]LER" File: "EXS02130011.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	250.	ng/mL
Calculated Conc:	232.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	12:49:53 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:	8.53	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	8.53	min
Area:	2.77e+006	counts
Height:	740331.238	cps
Start Time:	8.45	min
End Time:	8.69	min



Sample Name: "WXX100213-26ICV" Sample ID: "[1]LER" File: "EXS02130011.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	509.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	12:49:53 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	450.00	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	5.20	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	5.20	min
Area:	1.32e+006	counts
Height:	315228.943	cps
Start Time:	5.08	min
End Time:	5.49	min

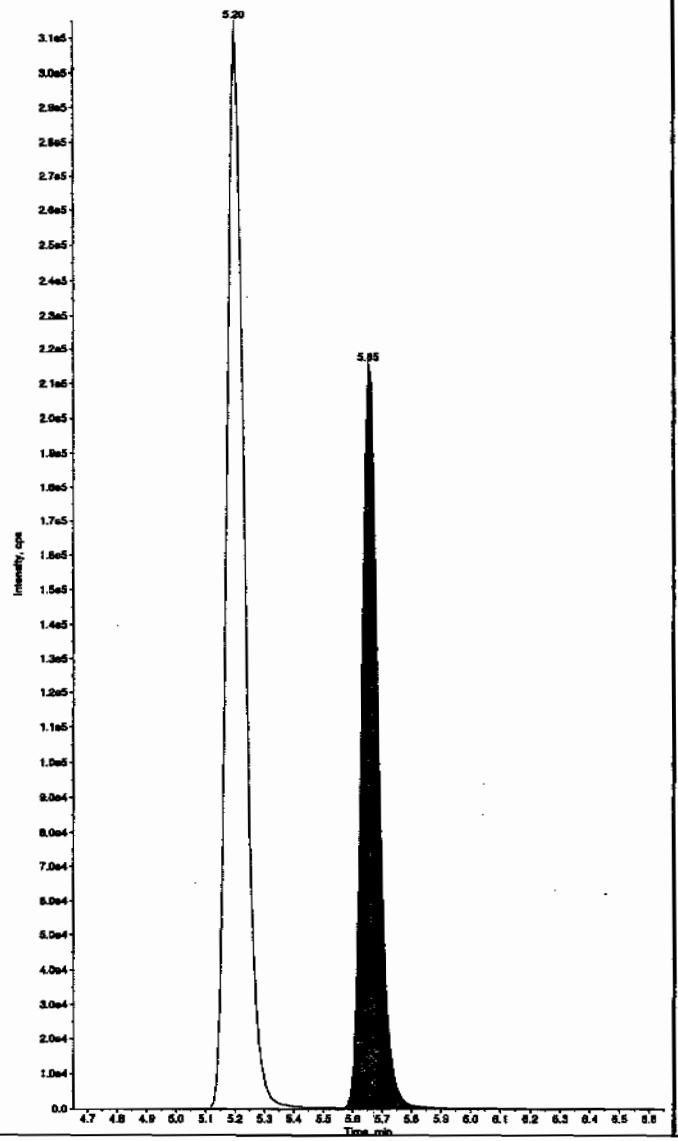


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

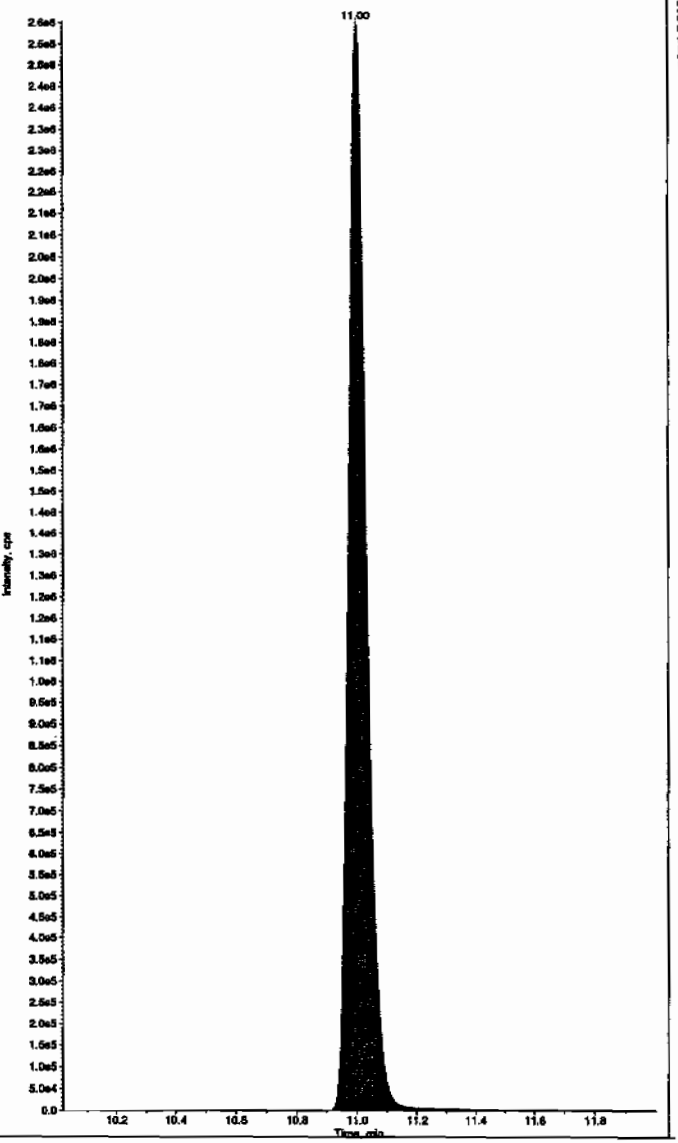
Sample Name: "WXX100213-26ICV" Sample ID: "[1]LER" File: "EXS02130011.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	500. ng/mL
Calculated Conc:	503. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	12:49:53 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:	5.65 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.65 min
Area:	8.72e+005 counts
Height:	215602.386 cps
Start Time:	5.57 min
End Time:	5.98 min



Sample Name: "WXX100213-26ICV" Sample ID: "[1]LER" File: "EXS02130011.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	500. ng/mL
Calculated Conc:	501. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	12:49:53 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	1.08e+007 counts
Height:	2553403.809 cps
Start Time:	10.9 min
End Time:	11.3 min



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

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

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208012a **Analysis Date:** 08-FEB-10 20:09

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	40.21	101	
1,3-Dinitrobenzene-d4	500	487.883	98	
2,4,6-Trinitrotoluene	40	41.689	104	
2,4-Dinitrotoluene	40	40.338	101	
2,6-Dinitrotoluene	40	41.76	104	
2,6-Dinitrotoluene-d3	500	475.508	95	
2-Amino-4,6-dinitrotoluene	40	38.358	96	
3,4-Dinitrotoluene	20	17.528	88	
4-Amino-2,6-dinitrotoluene	40	38.578	96	
HMX	40	37.759	94	
Nitrobenzene	40	49.333	123	
PETN	40	39.026	98	
RDX	40	41.043	103	
Tetryl	40	37.278	93	
m-Dinitrobenzene	40	39.387	98	
m-Nitrotoluene	40	35.357	88	
o-Nitrotoluene	40	44.694	112	
p-Nitrotoluene	40	41.348	103	

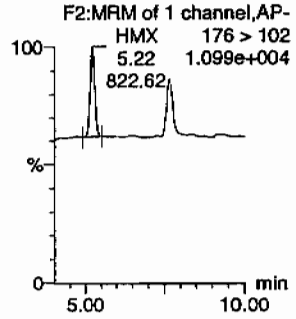
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

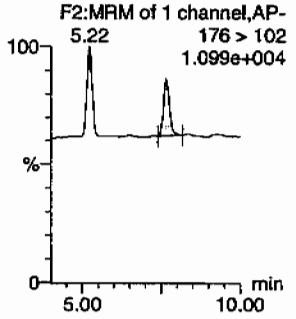
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208012a
Date: 08-Feb-2010
Time: 20:09:03
ID: WXX100208-08CRI
Vial: 1:1,C

Page 289 of 691

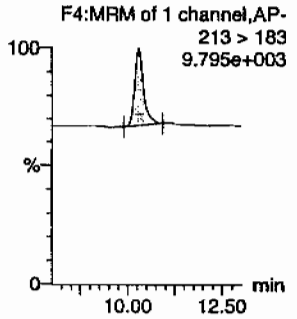
HMX



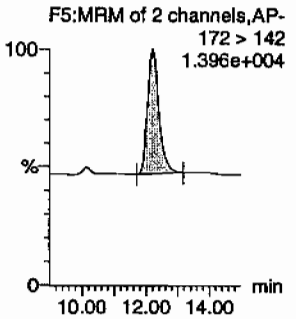
RDX



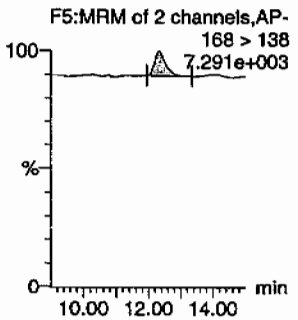
135-Trinitrobenzene



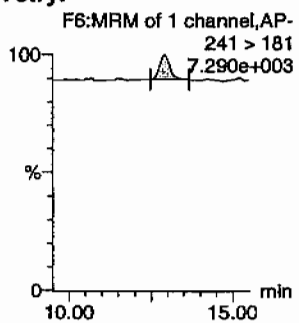
13-Dinitrobenzene-d4



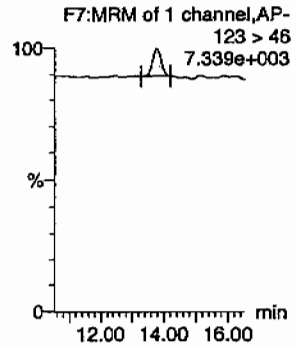
13-Dinitrobenzene



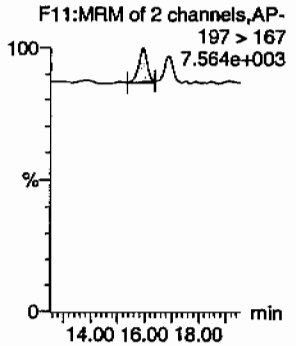
Tetryl



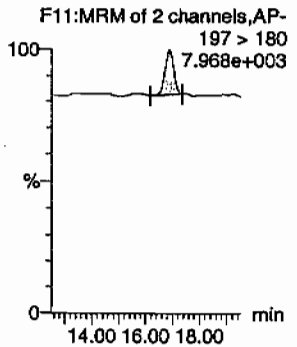
Nitrobenzene



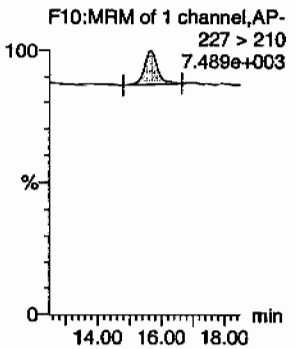
4-Amino-26-dinitrotoluene



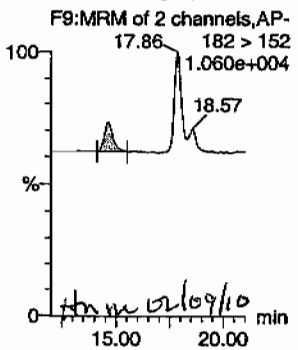
2-Amino-46-dinitrotoluene



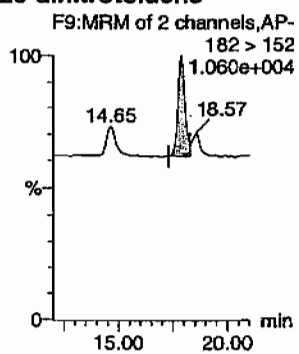
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



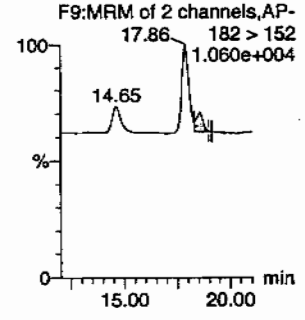
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

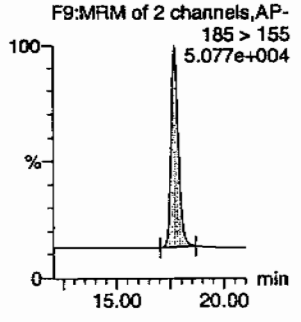
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

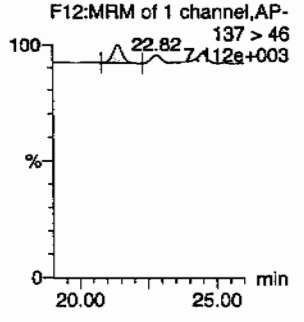
24-dinitrotoluene



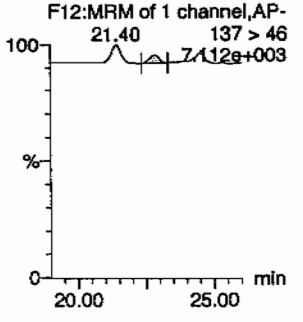
26-dinitrotoluene-d3



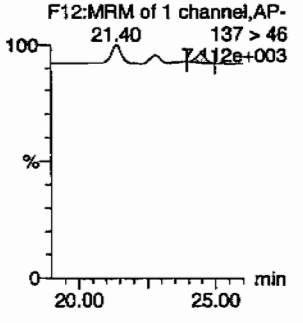
2-Nitrotoluene



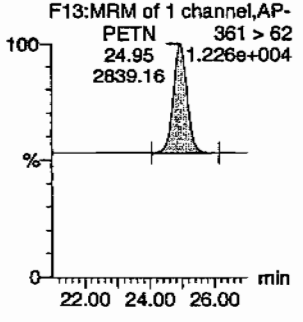
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.22	822.619	3136.673	822.619	131.129	bb			37.7589	94.4	-5.6	95.4
WXX100208-08CRI	RDX	176 > 102	7.66	625.184	3136.673	625.184	99.657	bb			41.0425	102.6	2.6	61.5
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.30	929.059	3136.673	929.059	148.096	bb			40.2102	100.5	0.5	111.3
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.20	3136.673		3136.673	3136.673	bb			487.8832	97.6	-2.4	122.8
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.34	297.097	3136.673	297.097	47.359	bb			39.3869	98.5	-1.5	19.3
WXX100208-08CRI	Tetryl	241 > 181	12.92	274.384	3136.673	274.384	43.738	bb			37.2783	93.2	-6.8	24.6
WXX100208-08CRI	Nitrobenzene	123 > 46	13.76	249.993	3136.673	249.993	39.850	bb			49.3333	123.3	23.3	23.5
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.92	389.077	17555.461	389.077	11.081	MM	09-Feb-10	10:07:17	38.5781	96.4	-3.6	24.6
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.86	533.368	17555.461	533.368	15.191	bb			38.3580	95.9	-4.1	43.1
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.64	472.299	17555.461	472.299	13.452	bb			41.6894	104.2	4.2	65.7
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.65	553.874	17555.461	553.874	15.775	bb			17.5279	87.6	-12.4	33.8
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.86	1574.877	17555.461	1574.877	44.854	MM	09-Feb-10	10:14:02	41.7604	104.4	4.4	116.4
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.57	345.648	17555.461	345.648	9.844	MM	09-Feb-10	10:17:05	40.3376	100.8	0.8	25.5
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.71	17555.461		17555.461	17555.461	bb			475.5082	95.1	-4.9	2857.9
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.40	243.311	17555.461	243.311	6.930	bb			44.6944	111.7	11.7	27.5
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.82	110.338	17555.461	110.338	3.143	bb			41.3480	103.4	3.4	12.6
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.51	115.663	17555.461	115.663	3.294	bb			35.3566	88.4	-11.6	14.1
WXX100208-08CRI	PETN	361 > 62	24.95	2839.157	17555.461	2839.157	80.863	bb			39.0264	97.6	-2.4	1037.0

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/08/10
Time of Injection	2009
Standard Number	WXX100208-08CRI
Data File	EXP0208012a

HMX		94.4
RDX		102.6
135-TNB		100.5
13-DNB		98.5
Tetryl		93.2
Nitrobenzene		123.3
4A-26-DNT		96.4
2A-46-DNT		95.9
246-TNT		104.2
34-DNT(surr)		87.6
26-DNT		104.4
24-DNT		100.8
2-NT		111.7
4-NT		103.4
3-NT		88.4
PETN		97.6
Total		1602.9
Average		100.2

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208023a **Analysis Date:** 09-FEB-10 01:33

LCMSMS ID: 903 **Column ID** Phenomenex Ultracarb 5u ODS(20)

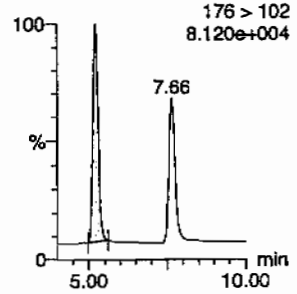
Compound	True	Found	Recovery	Q
HMX	600	662.759	110	
Nitrobenzene	600	657.025	110	
PETN	600	606.078	101	
RDX	600	749.058	125	*
Tetryl	600	660.942	110	
m-Dinitrobenzene	600	626.395	104	
m-Nitrotoluene	600	578.428	96	
o-Nitrotoluene	600	666.647	111	
p-Nitrotoluene	600	667.754	111	
1,3,5-Trinitrobenzene	600	554.897	92	
1,3-Dinitrobenzene-d4	500	508.101	102	
2,4,6-Trinitrotoluene	600	663.13	111	
2,4-Dinitrotoluene	600	649.62	108	
2,6-Dinitrotoluene	600	630.157	105	
2,6-Dinitrotoluene-d3	500	523.831	105	
2-Amino-4,6-dinitrotoluene	600	647.652	108	
3,4-Dinitrotoluene	300	319.699	107	
4-Amino-2,6-dinitrotoluene	600	634.612	106	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

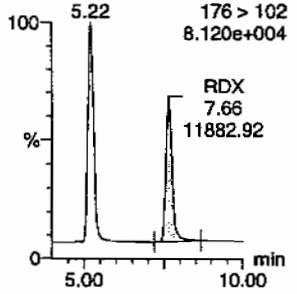
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208023a
Date: 09-Feb-2010
Time: 01:33:25
ID: WXX100208-07CCV
Vial: 1:1,B

MMP 2/9/10

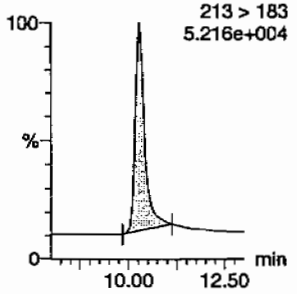
HMX



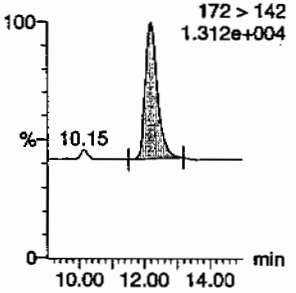
RDX



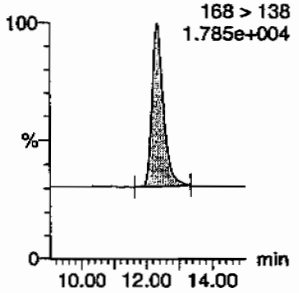
135-Trinitrobenzene



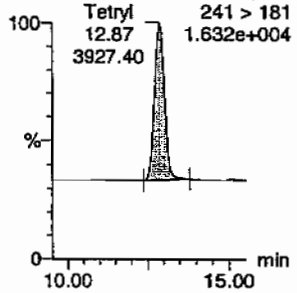
13-Dinitrobenzene-d4



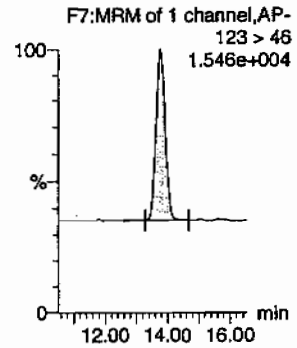
13-Dinitrobenzene



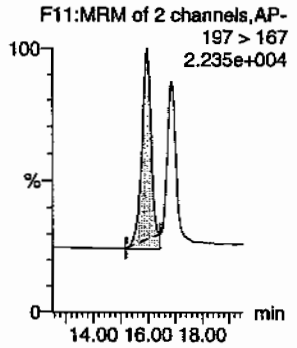
Tetryl



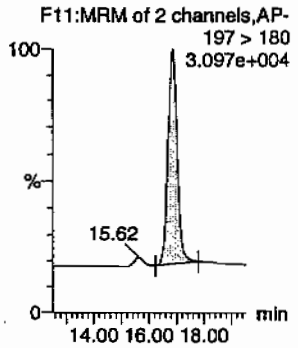
Nitrobenzene



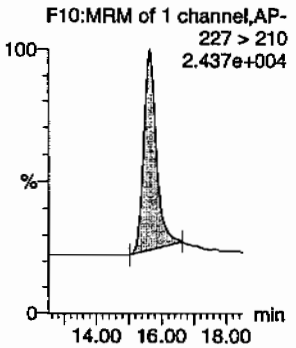
4-Amino-26-dinitrotoluene



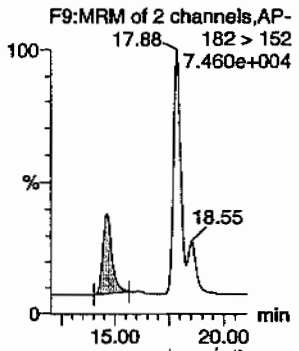
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

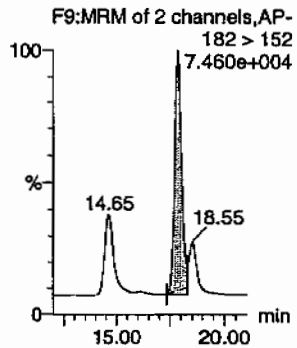


34-dinitrotoluene



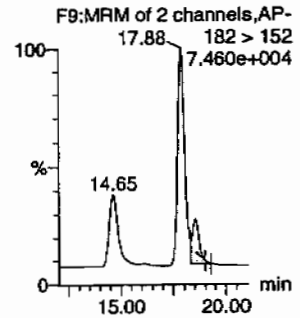
Hmm 2/9/10

26-dinitrotoluene

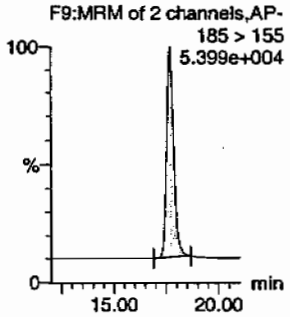


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

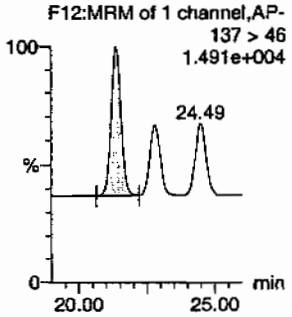
24-dinitrotoluene



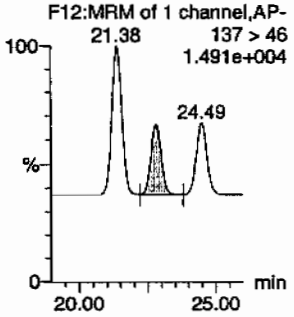
26-dinitrotoluene-d3



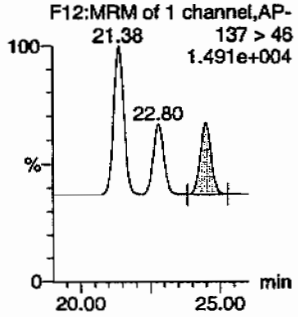
2-Nitrotoluene



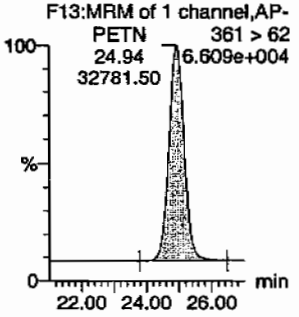
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.22	15037.290	3266.656	15037.290	2301.634	bb			662.7595	110.5	10.5	1639.6
WXX100208-07CCV	RDX	176 > 102	7.66	11882.921	3266.656	11882.921	1818.820	bb			749.0581	124.8	24.8	1082.1
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.28	13352.233	3266.656	13352.233	2043.716	bb			554.8968	92.5	-7.5	1376.9
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.20	3266.656		3266.656	3266.656	bb			508.1010	101.6	1.6	605.5
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.34	4920.726	3266.656	4920.726	753.175	bb			626.3952	104.4	4.4	650.7
WXX100208-07CCV	Tetryl	241 > 181	12.87	3927.402	3266.656	3927.402	601.135	bb			660.9418	110.2	10.2	338.7
WXX100208-07CCV	Nitrobenzene	123 > 46	13.76	3467.394	3266.656	3467.394	530.725	bb			657.0246	109.5	9.5	301.8
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.95	7050.759	19339.496	7050.759	182.289	MM	09-Feb-10	10:08:16	634.6121	105.8	5.8	309.2
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.84	9920.775	19339.496	9920.775	256.490	bb			647.6525	107.9	7.9	941.2
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.64	8276.058	19339.496	8276.058	213.968	bb			663.1304	110.5	10.5	495.8
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.65	11128.977	19339.496	11128.977	287.727	bb			319.6991	106.6	6.6	327.6
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.88	26179.654	19339.496	26179.654	676.844	MM	09-Feb-10	10:14:49	630.1572	105.0	5.0	989.4
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.55	6132.196	19339.496	6132.196	158.541	MM	09-Feb-10	10:18:07	649.6200	108.3	8.3	212.0
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.71	19339.496		19339.496	19339.496	bb			523.8307	104.8	4.8	1406.1
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.38	3997.954	19339.496	3997.954	103.362	bb			666.6469	111.1	11.1	1102.1
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.80	1963.000	19339.496	1963.000	50.751	bb			667.7539	111.3	11.3	513.0
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.49	2084.521	19339.496	2084.521	53.893	bb			578.4278	96.4	-3.6	524.4
WXX100208-07CCV	PETN	361 > 62	24.94	32781.500	19339.496	32781.500	847.527	bb			606.0775	101.0	1.0	5719.1

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/09/10
Time of Injection: 0133
Standard Number: WXX100208-07CCV
Data File: EXP0208023a

HMX	110.5
RDX	124.8
135-TNB	92.5
13-DNB	104.4
Tetryl	110.2
Nitrobenzene	109.5
4A-26-DNT	105.8
2A-46-DNT	107.9
246-TNT	110.5
34-DNT(surr)	106.6
26-DNT	105.0
24-DNT	108.3
2-NT	111.1
4-NT	111.3
3-NT	96.4
PETN	101.0
Total	1715.8
Average	107.2

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208025a **Analysis Date:** 09-FEB-10 02:32

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

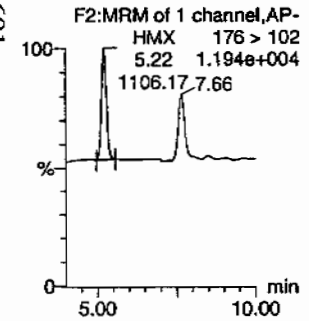
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	48.344	121	
1,3-Dinitrobenzene-d4	500	473.5	95	
2,4,6-Trinitrotoluene	40	40.42	101	
2,4-Dinitrotoluene	40	41.928	105	
2,6-Dinitrotoluene	40	42.477	106	
2,6-Dinitrotoluene-d3	500	478.268	96	
2-Amino-4,6-dinitrotoluene	40	34.805	87	
3,4-Dinitrotoluene	20	22.301	112	
4-Amino-2,6-dinitrotoluene	40	34.146	85	
HMX	40	52.317	131	*
Nitrobenzene	40	45.327	113	
PETN	40	49.164	123	
RDX	40	55.212	138	*
Tetryl	40	41.653	104	
m-Dinitrobenzene	40	42.381	106	
m-Nitrotoluene	40	52.115	130	*
o-Nitrotoluene	40	49.924	125	
p-Nitrotoluene	40	50.961	127	

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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

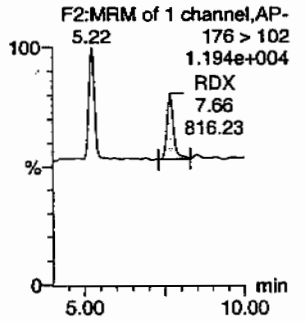
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208025a
Date: 09-Feb-2010
Time: 02:32:22
ID: WXX100208-08CRI
Vial: 1:1,C

HMTT 2/9/10

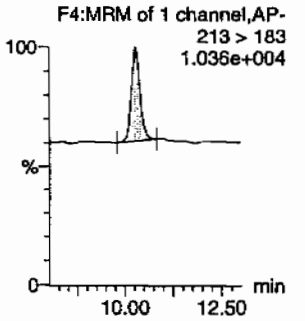
HMX



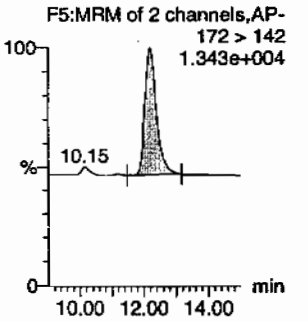
RDX



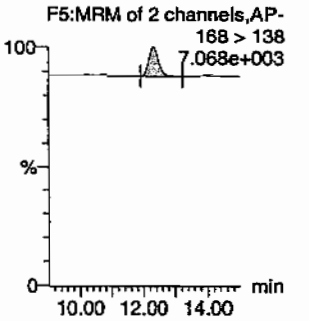
135-Trinitrobenzene



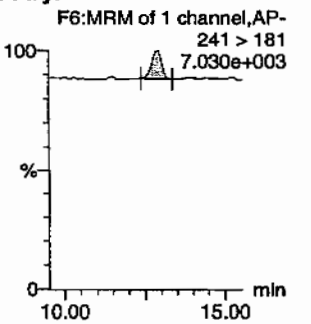
13-Dinitrobenzene-d4



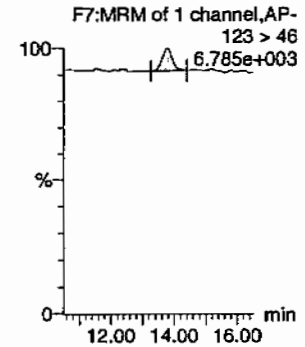
13-Dinitrobenzene



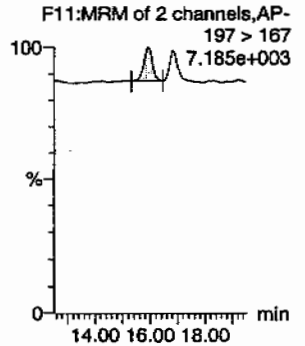
Tetryl



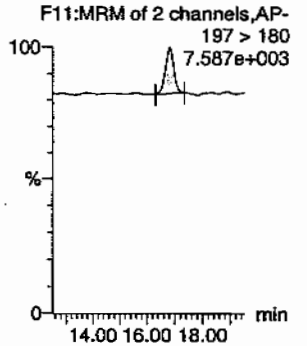
Nitrobenzene



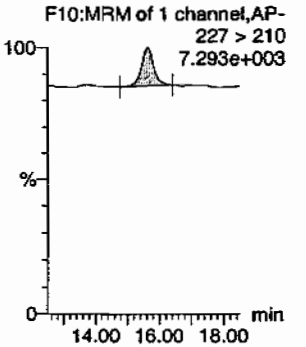
4-Amino-26-dinitrotoluene



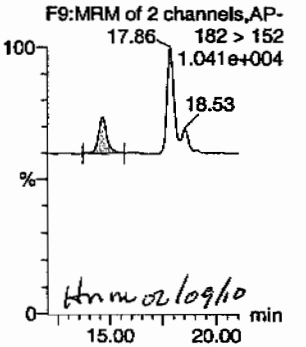
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

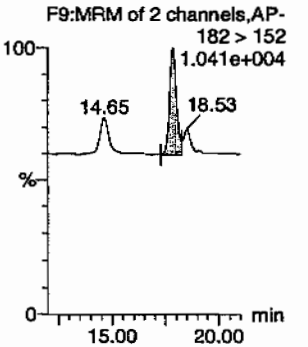


34-dinitrotoluene



hmm 02/09/10

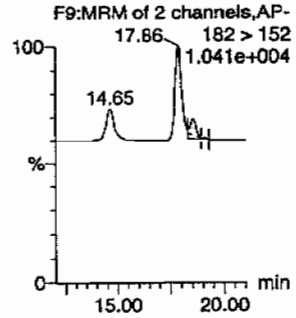
26-dinitrotoluene



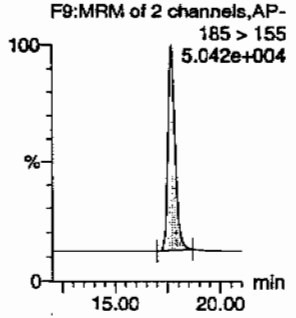
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

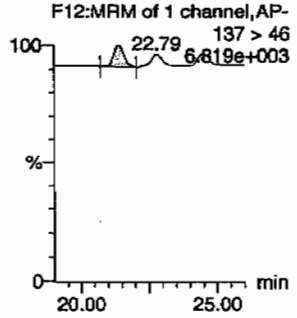
24-dinitrotoluene



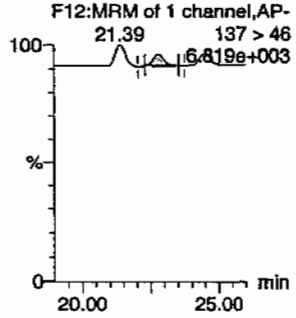
26-dinitrotoluene-d3



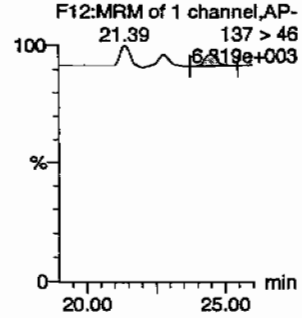
2-Nitrotoluene



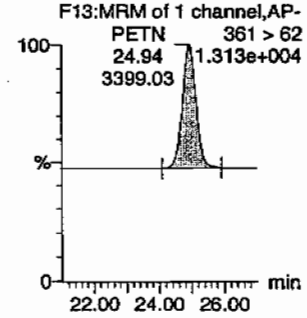
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.22	1106.172	3044.203	1106.172	181.685	bb			52.3165	130.8	30.8	145.7
WXX100208-08CRI	RDX	176 > 102	7.66	816.232	3044.203	816.232	134.063	bb			55.2123	138.0	38.0	85.9
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.28	1084.060	3044.203	1084.060	178.053	bb			48.3439	120.9	20.9	161.9
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.20	3044.203		3044.203	3044.203	bb			473.5003	94.7	-5.3	257.8
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.34	310.255	3044.203	310.255	50.958	bb			42.3807	106.0	6.0	45.2
WXX100208-08CRI	Tetryl	241 > 181	12.87	291.717	3044.203	291.717	47.914	bb			41.6529	104.1	4.1	19.9
WXX100208-08CRI	Nitrobenzene	123 > 46	13.80	222.919	3044.203	222.919	36.614	bb			45.3268	113.3	13.3	14.9
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.92	346.380	17657.348	346.380	9.808	bb			34.1464	85.4	-14.6	22.4
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.84	486.778	17657.348	486.778	13.784	bb			34.8054	87.0	-13.0	49.4
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.64	460.576	17657.348	460.576	13.042	bb			40.4200	101.1	1.1	89.9
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.65	708.785	17657.348	708.785	20.071	bb			22.3008	111.5	11.5	40.3
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.86	1611.184	17657.348	1611.184	45.624	MM	09-Feb-10	10:14:57	42.4766	106.2	6.2	118.7
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.53	361.362	17657.348	361.362	10.233	MM	09-Feb-10	10:18:19	41.9281	104.8	4.8	26.4
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.68	17657.348		17657.348	17657.348	bb			478.2680	95.7	-4.3	1801.9
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.39	273.359	17657.348	273.359	7.741	bb			49.9242	124.8	24.8	22.3
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.79	136.781	17657.348	136.781	3.873	MM	09-Feb-10	10:12:02	50.9614	127.4	27.4	11.4
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.49	171.475	17657.348	171.475	4.856	bb			52.1151	130.3	30.3	12.0
WXX100208-08CRI	PETN	361 > 62	24.94	3399.029	17657.348	3399.029	96.250	bb			49.1641	122.9	22.9	286.4

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/09/10
Time of Injection	0232
Standard Number	WXX100208-08CRI
Data File	EXP0208025a

HMX	130.8
RDX	138.0
135-TNB	120.9
13-DNB	106.0
Tetryl	104.1
Nitrobenzene	113.3
4A-26-DNT	85.4
2A-46-DNT	87.0
246-TNT	101.1
34-DNT(surr)	111.5
26-DNT	106.2
24-DNT	104.8
2-NT	124.8
4-NT	127.4
3-NT	130.3
PETN	122.9
Total	1814.5
Average	113.4

HMX 02/09/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208036a **Analysis Date:** 09-FEB-10 07:57

LCMSMS ID: 903 **Column ID** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	557.726	93	
1,3-Dinitrobenzene-d4	500	507.978	102	
2,4,6-Trinitrotoluene	600	683.818	114	
2,4-Dinitrotoluene	600	677.06	113	
2,6-Dinitrotoluene	600	638.573	106	
2,6-Dinitrotoluene-d3	500	505.031	101	
2-Amino-4,6-dinitrotoluene	600	628.37	105	
3,4-Dinitrotoluene	300	343.206	114	
4-Amino-2,6-dinitrotoluene	600	610.088	102	
HMX	600	580.276	97	
Nitrobenzene	600	601.509	100	
PETN	600	627.319	105	
RDX	600	669.645	112	
Tetryl	600	596.357	99	
m-Dinitrobenzene	600	631.512	105	
m-Nitrotoluene	600	558.007	93	
o-Nitrotoluene	600	611.096	102	
p-Nitrotoluene	600	633.085	106	

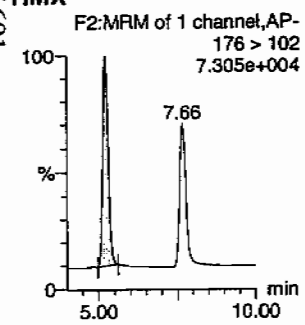
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

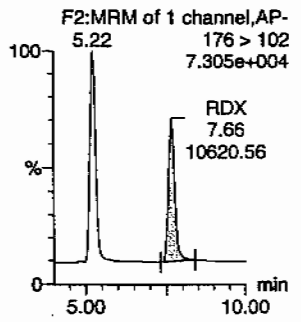
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208036a
Date: 09-Feb-2010
Time: 07:57:19
ID: WXX100208-07CCV
Vial: 1:1,B

Page 301 of 691

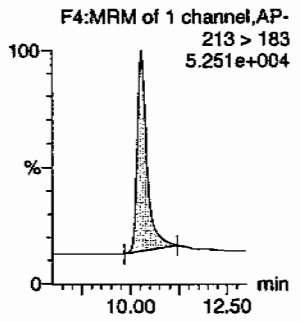
HMX



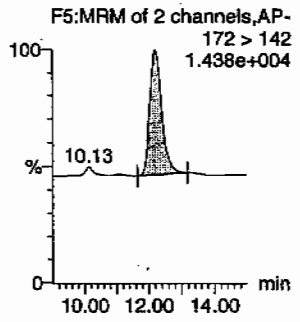
RDX



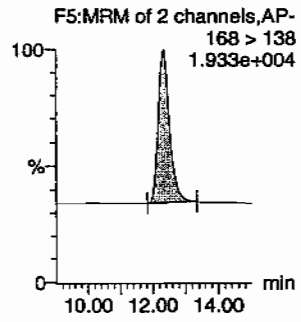
135-Trinitrobenzene



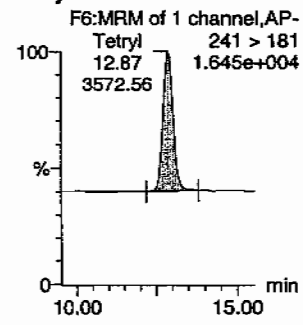
13-Dinitrobenzene-d4



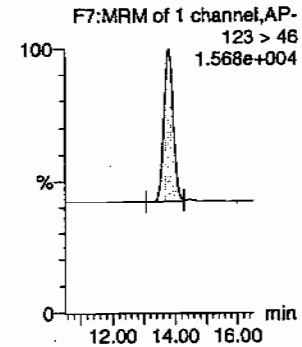
13-Dinitrobenzene



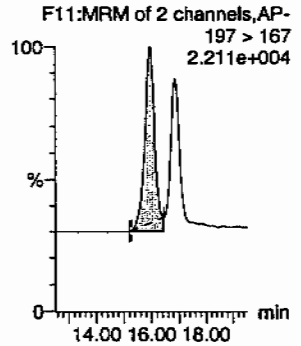
Tetryl



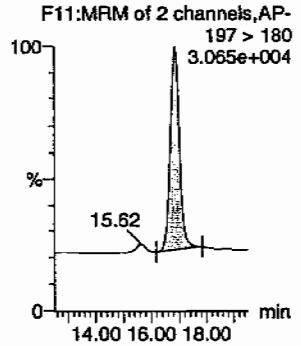
Nitrobenzene



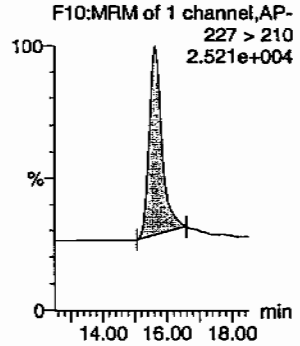
4-Amino-26-dinitrotoluene



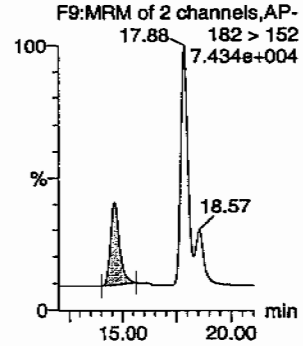
2-Amino-46-dinitrotoluene



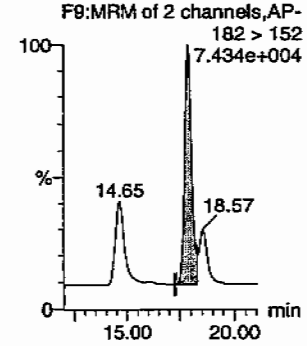
246-Trinitrotoluene



34-dinitrotoluene



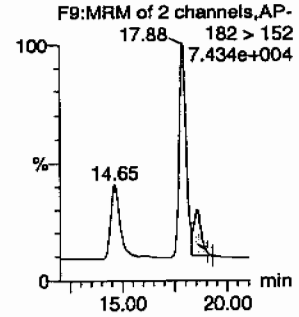
26-dinitrotoluene



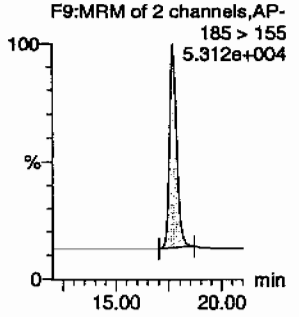
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

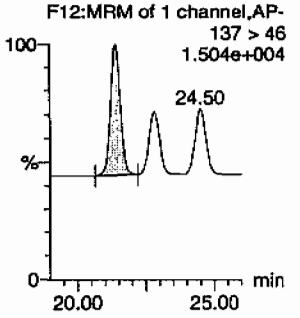
24-dinitrotoluene



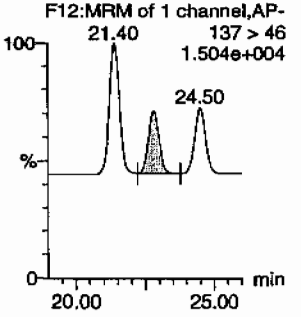
26-dinitrotoluene-d3



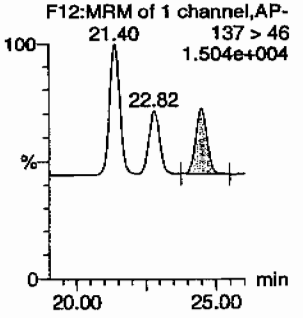
2-Nitrotoluene



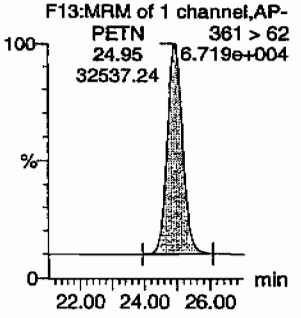
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.22	13162.657	3265.867	13162.657	2015.186	bb			580.2763	96.7	-3.3	1346.4
WXX100208-07CCV	RDX	176 > 102	7.66	10620.564	3265.867	10620.564	1625.995	bb			669.6453	111.6	11.6	912.9
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.30	13417.060	3265.867	13417.060	2054.134	bb			557.7256	93.0	-7.0	1689.0
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.20	3265.867		3265.867	3265.867	bb			507.9782	101.6	1.6	605.7
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.34	4959.725	3265.867	4959.725	759.327	bb			631.5122	105.3	5.3	605.8
WXX100208-07CCV	Tetryl	241 > 181	12.87	3572.560	3265.867	3572.560	546.954	bb			596.3571	99.4	-0.6	266.7
WXX100208-07CCV	Nitrobenzene	123 > 46	13.80	3173.647	3265.867	3173.647	485.881	bd			601.5088	100.3	0.3	397.7
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.95	6535.022	18645.436	6535.022	175.245	MM	09-Feb-10	10:08:38	610.0875	101.7	1.7	220.1
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.84	9279.965	18645.436	9279.965	248.854	bb			628.3699	104.7	4.7	600.3
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.64	8227.966	18645.436	8227.966	220.643	bb			683.8179	114.0	14.0	212.5
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.65	11518.506	18645.436	11518.506	308.883	bb			343.2061	114.4	14.4	186.4
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.88	25577.211	18645.436	25577.211	685.884	MM	09-Feb-10	10:15:19	638.5734	106.4	6.4	536.5
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.57	6161.852	18645.436	6161.852	165.238	MM	09-Feb-10	10:18:29	677.0601	112.8	12.8	117.9
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.71	18645.436		18645.436	18645.436	bb			505.0314	101.0	1.0	1377.3
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.40	3533.284	18645.436	3533.284	94.749	bb			611.0957	101.8	1.8	676.4
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.82	1794.293	18645.436	1794.293	48.116	bb			633.0852	105.5	5.5	322.7
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.50	1938.759	18645.436	1938.759	51.990	bb			558.0066	93.0	-7.0	336.8
WXX100208-07CCV	PETN	361 > 62	24.95	32537.242	18645.436	32537.242	872.526	bb			627.3190	104.6	4.6	16599.7

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/09/10
Time of Injection: 0757
Standard Number: WXX100208-07CCV
Data File: EXP0208036a

HMX		96.7
RDX		111.6
135-TNB		93.0
13-DNB		105.3
Tetryl		99.4
Nitrobenzene		100.3
4A-26-DNT		101.7
2A-46-DNT		104.7
246-TNT		114.0
34-DNT(surr)		114.4
26-DNT		106.4
24-DNT		112.8
2-NT		101.8
4-NT		105.5
3-NT		93.0
PETN		104.6
	Total	1665.2
	Average	104.1

MAT 2/9/10

Hmm 02/09/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208038a **Analysis Date:** 09-FEB-10 08:56

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

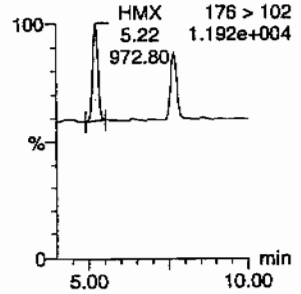
Compound	True	Found	Recovery	Q
Nitrobenzene	40	44.383	111	
PETN	40	42.434	106	
RDX	40	40.143	100	
Tetryl	40	36.6	92	
m-Dinitrobenzene	40	41.257	103	
m-Nitrotoluene	40	38.786	97	
o-Nitrotoluene	40	43.692	109	
p-Nitrotoluene	40	33.849	85	
1,3,5-Trinitrobenzene	40	41.878	105	
1,3-Dinitrobenzene-d4	500	600.974	120	
2,4,6-Trinitrotoluene	40	41.161	103	
2,4-Dinitrotoluene	40	39.718	99	
2,6-Dinitrotoluene	40	41.46	104	
2,6-Dinitrotoluene-d3	500	511.208	102	
2-Amino-4,6-dinitrotoluene	40	41.059	103	
3,4-Dinitrotoluene	20	24.686	123	
4-Amino-2,6-dinitrotoluene	40	44.787	112	
HMX	40	36.25	91	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

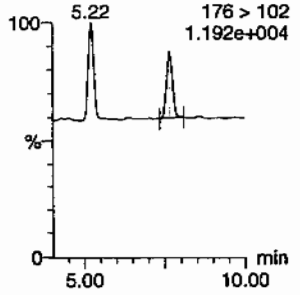
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208038a
Date: 09-Feb-2010
Time: 08:56:17
ID: WXX100208-08CRI
Vial: 1:1,C

MTP 2/9/10

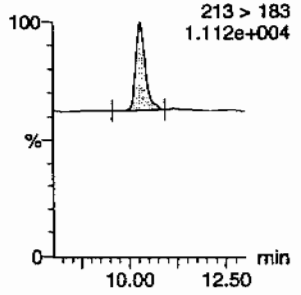
HMX



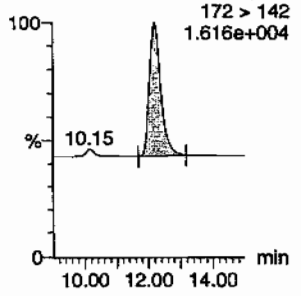
RDX



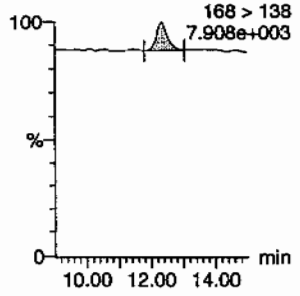
135-Trinitrobenzene



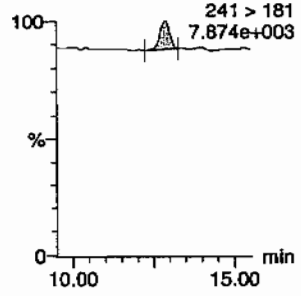
13-Dinitrobenzene-d4



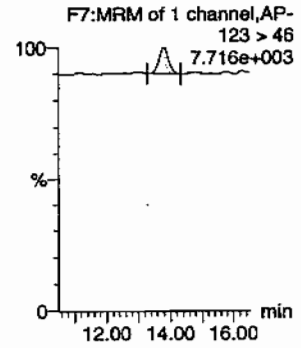
13-Dinitrobenzene



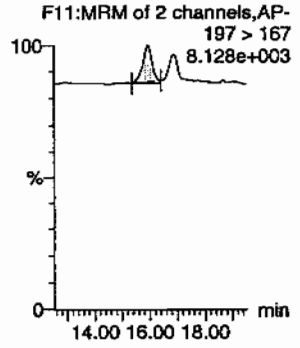
Tetryl



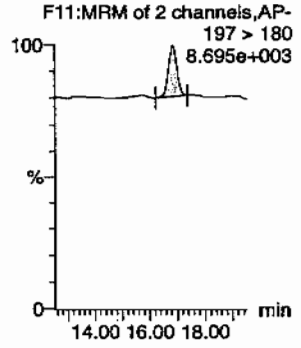
Nitrobenzene



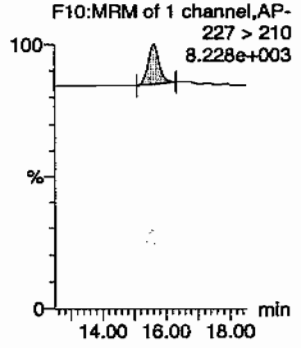
4-Amino-26-dinitrotoluene



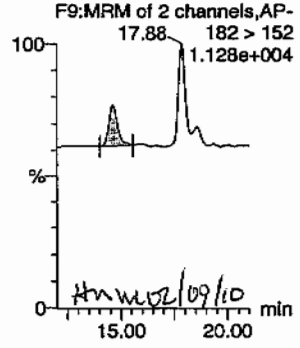
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

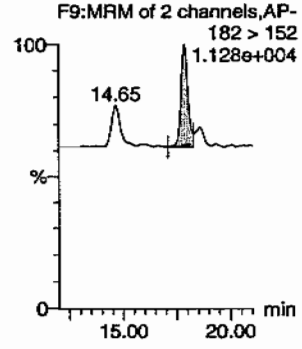


34-dinitrotoluene



HMW 02/09/10

26-dinitrotoluene

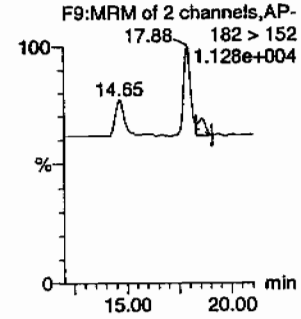


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

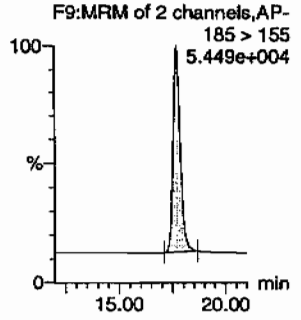
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

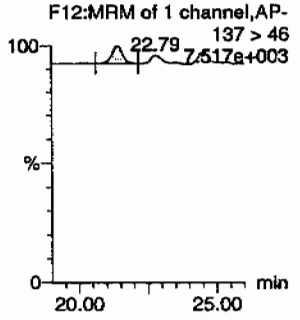
24-dinitrotoluene



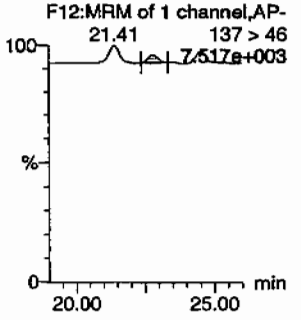
26-dinitrotoluene-d3



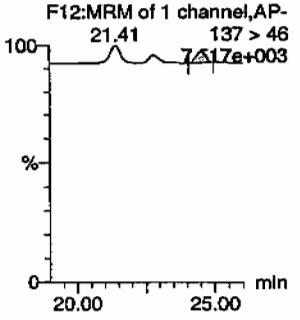
2-Nitrotoluene



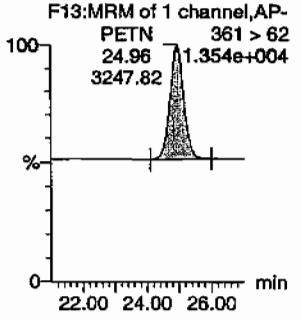
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.22	972.801	3863.752	972.801	125.888	bb			36.2497	90.6	-9.4	111.9
WXX100208-08CRI	RDX	176 > 102	7.66	753.223	3863.752	753.223	97.473	bb			40.1430	100.4	0.4	77.4
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.28	1191.883	3863.752	1191.883	154.239	bb			41.8780	104.7	4.7	118.4
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.20	3863.752		3863.752	3863.752	bb			600.9743	120.2	20.2	435.6
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.34	383.336	3863.752	383.336	49.607	bb			41.2566	103.1	3.1	20.7
WXX100208-08CRI	Tetryl	241 > 181	12.87	332.982	3863.752	332.982	43.090	bb			36.6002	91.5	-8.5	27.6
WXX100208-08CRI	Nitrobenzene	123 > 46	13.80	277.043	3863.752	277.043	35.852	bb			44.3833	111.0	11.0	19.4
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.92	485.610	18873.490	485.610	12.865	MM	09-Feb-10	10:08:44	44.7871	112.0	12.0	52.7
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.84	613.793	18873.490	613.793	16.261	bb			41.0593	102.6	2.6	87.6
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.64	501.319	18873.490	501.319	13.281	bb			41.1607	102.9	2.9	66.2
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.65	838.618	18873.490	838.618	22.217	bb			24.6856	123.4	23.4	48.7
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.88	1680.954	18873.490	1680.954	44.532	MM	09-Feb-10	10:15:31	41.4604	103.7	3.7	121.8
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.59	365.888	18873.490	365.888	9.693	MM	09-Feb-10	10:18:38	39.7177	99.3	-0.7	22.8
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.71	18873.490		18873.490	18873.490	bb			511.2084	102.2	2.2	1598.8
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.41	255.711	18873.490	255.711	6.774	bb			43.6918	109.2	9.2	36.6
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.79	97.109	18873.490	97.109	2.573	bb			33.8492	84.6	-15.4	15.6
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.53	136.407	18873.490	136.407	3.614	bb			38.7858	97.0	-3.0	22.9
WXX100208-08CRI	PETN	361 > 62	24.96	3247.825	18873.490	3247.825	86.042	bb			42.4344	106.1	6.1	522.7

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/09/10
Time of Injection	0856
Standard Number	WXX100208-08CRI
Data File	EXP0208038a

HMX	90.6
RDX	100.4
135-TNB	104.7
13-DNB	103.1
Tetryl	91.5
Nitrobenzene	111.0
4A-26-DNT	112.0
2A-46-DNT	102.6
246-TNT	102.9
34-DNT(surr)	123.4
26-DNT	103.7
24-DNT	99.3
2-NT	109.2
4-NT	84.6
3-NT	97.0
PETN	106.1
Total	1642.1
Average	102.6

2/9/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208049a **Analysis Date:** 09-FEB-10 14:20

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

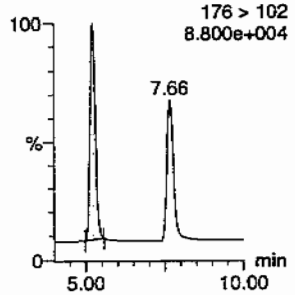
Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	549.978	110	
2,4,6-Trinitrotoluene	600	711.282	119	
2,4-Dinitrotoluene	600	646.244	108	
2,6-Dinitrotoluene	600	631.864	105	
2,6-Dinitrotoluene-d3	500	554.109	111	
2-Amino-4,6-dinitrotoluene	600	637.752	106	
3,4-Dinitrotoluene	300	327.767	109	
4-Amino-2,6-dinitrotoluene	600	652.073	109	
HMX	600	648.743	108	
Nitrobenzene	600	534.529	89	
PETN	600	566.64	94	
RDX	600	721.033	120	*
Tetryl	600	576.02	96	
m-Dinitrobenzene	600	635.781	106	
m-Nitrotoluene	600	523.672	87	
o-Nitrotoluene	600	534.766	89	
p-Nitrotoluene	600	557.168	93	
1,3,5-Trinitrobenzene	600	581.172	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

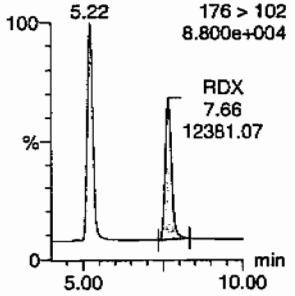
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208049a
Date: 09-Feb-2010
Time: 14:20:41
ID: WXX100208-07CCV
Vial: 1:1,B

MM 2/10/10

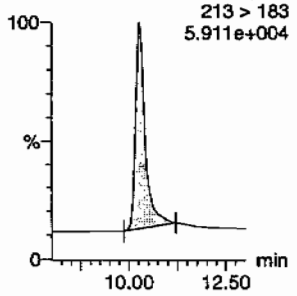
HMX



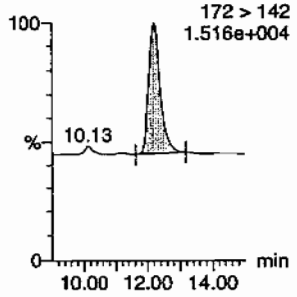
RDX



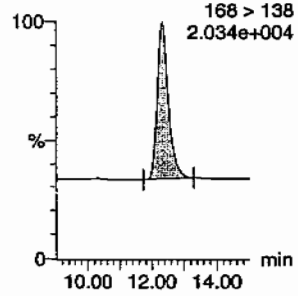
135-Trinitrobenzene



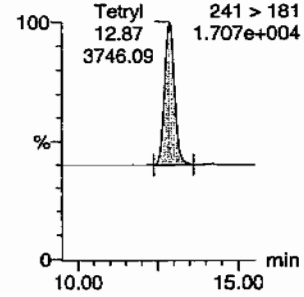
13-Dinitrobenzene-d4



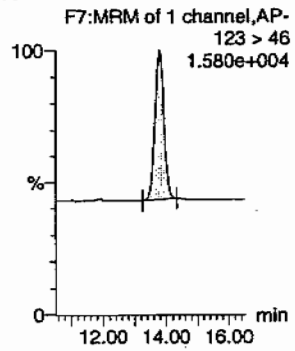
13-Dinitrobenzene



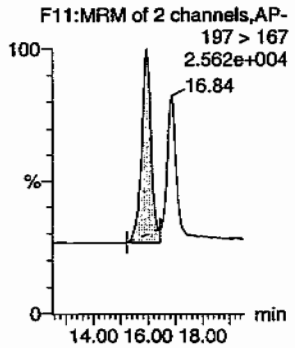
Tetryl



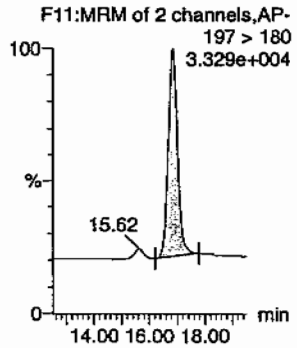
Nitrobenzene



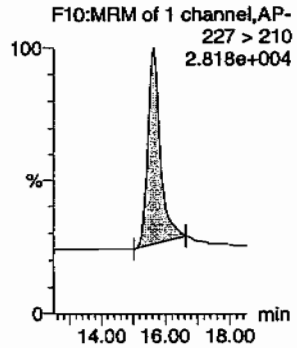
4-Amino-26-dinitrotoluene



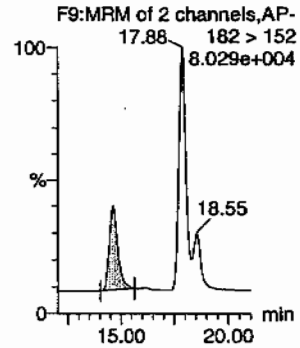
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

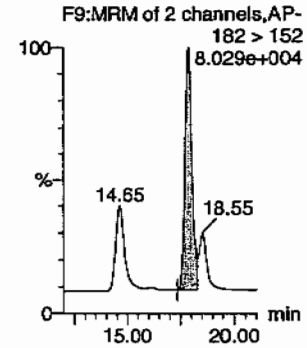


34-dinitrotoluene



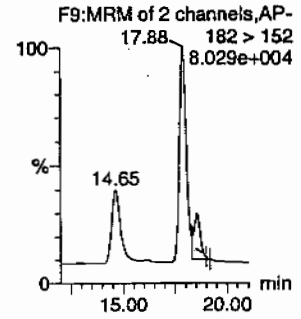
thume 2/10/10

26-dinitrotoluene

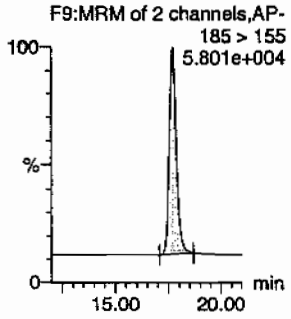


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

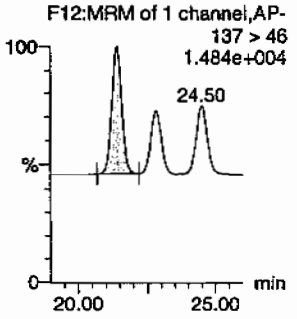
24-dinitrotoluene



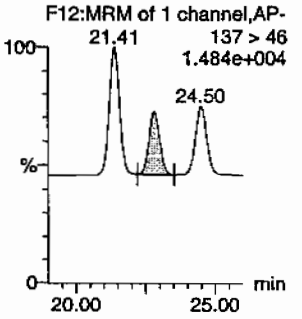
26-dinitrotoluene-d3



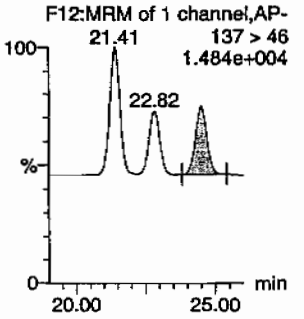
2-Nitrotoluene



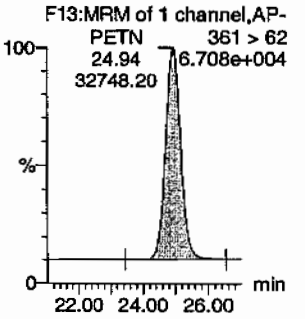
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.22	15932.405	3535.888	15932.405	2252.957	bb			648.7429	108.1	8.1	4227.8
WXX100208-07CCV	RDX	176 > 102	7.66	12381.069	3535.888	12381.069	1750.772	bb			721.0334	120.2	20.2	2779.7
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.30	15137.054	3535.888	15137.054	2140.488	bb			581.1718	96.9	-3.1	1149.7
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.20	3535.888		3535.888	3535.888	bb			549.9778	110.0	10.0	208.7
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.34	5406.091	3535.888	5406.091	764.460	bb			635.7809	106.0	6.0	279.1
WXX100208-07CCV	Tetryl	241 > 181	12.87	3746.090	3535.888	3746.090	529.724	bb			576.0201	96.0	-4.0	563.4
WXX100208-07CCV	Nitrobenzene	123 > 46	13.76	3053.430	3535.888	3053.430	431.777	bb			534.5291	89.1	-10.9	367.5
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.95	7663.504	20457.336	7663.504	187.305	MM	10-Feb-10	09:16:05	652.0726	108.7	8.7	438.3
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.84	10333.780	20457.336	10333.780	252.569	bb			637.7518	106.3	6.3	558.7
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.64	9390.103	20457.336	9390.103	229.505	bb			711.2820	118.5	18.5	550.7
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.65	12069.317	20457.336	12069.317	294.988	bb			327.7668	109.3	9.3	305.7
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.88	27767.875	20457.336	27767.875	678.678	MM	10-Feb-10	09:11:31	631.8642	105.3	5.3	893.5
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.55	6452.933	20457.336	6452.933	157.717	MM	10-Feb-10	09:09:39	646.2441	107.7	7.7	198.3
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.71	20457.336		20457.336	20457.336	bb			554.1086	110.8	10.8	1772.0
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.41	3392.420	20457.336	3392.420	82.915	bb			534.7660	89.1	-10.9	387.8
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.82	1732.583	20457.336	1732.583	42.346	bb			557.1681	92.9	-7.1	191.1
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.50	1996.277	20457.336	1996.277	48.791	bb			523.6725	87.3	-12.7	205.6
WXX100208-07CCV	PETN	361 > 62	24.94	32748.201	20457.336	32748.201	800.402	bb			566.6402	94.4	-5.6	6960.2

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/09/10
Time of Injection: 1420
Standard Number: WXX100208-07CCV
Data File: EXP0208049a

HMX	108.1
RDX	120.2
135-TNB	96.9
13-DNB	106.0
Tetryl	96.0
Nitrobenzene	89.1
4A-26-DNT	108.7
2A-46-DNT	106.3
246-TNT	118.5
34-DNT(surr)	109.3
26-DNT	105.3
24-DNT	107.7
2-NT	89.1
4-NT	92.9
3-NT	87.3
PETN	94.4
Total	1635.8
Average	102.2

2/10/10

Hmm 02-10-10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208051a **Analysis Date:** 09-FEB-10 15:19

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

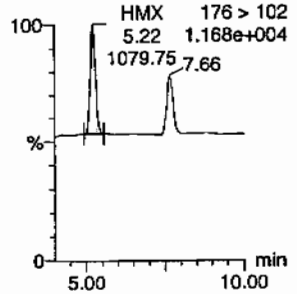
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	43.499	109	
1,3-Dinitrobenzene-d4	500	575.339	115	
2,4,6-Trinitrotoluene	40	37.174	93	
2,4-Dinitrotoluene	40	39.545	99	
2,6-Dinitrotoluene	40	44.458	111	
2,6-Dinitrotoluene-d3	500	556.656	111	
2-Amino-4,6-dinitrotoluene	40	44.445	111	
3,4-Dinitrotoluene	20	22.823	114	
4-Amino-2,6-dinitrotoluene	40	42.665	107	
HMX	40	42.028	105	
Nitrobenzene	40	40.451	101	
PETN	40	36.261	91	
RDX	40	37.937	95	
Tetryl	40	44.71	112	
m-Dinitrobenzene	40	44.913	112	
m-Nitrotoluene	40	32.902	82	
o-Nitrotoluene	40	39.318	98	
p-Nitrotoluene	40	38.91	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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

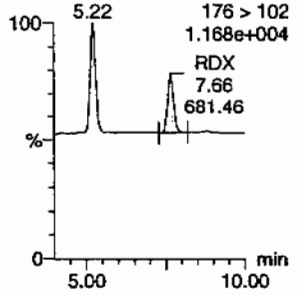
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208051a
Date: 09-Feb-2010
Time: 15:19:46
ID: WXX100208-08CRI
Vial: 1:1,C

MM 2/10/10

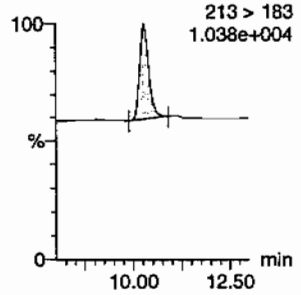
HMX



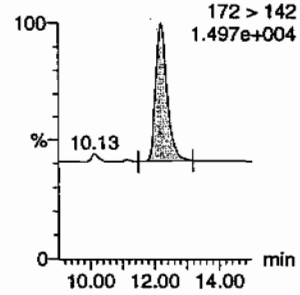
RDX



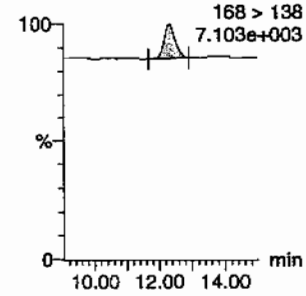
135-Trinitrobenzene



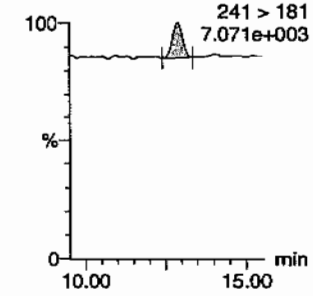
13-Dinitrobenzene-d4



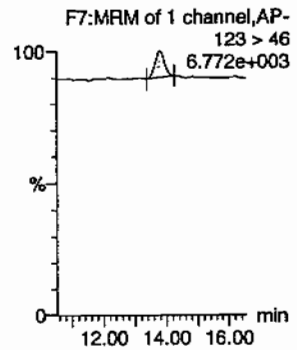
13-Dinitrobenzene



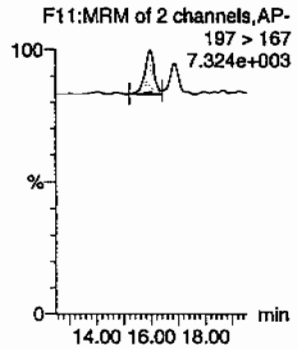
Tetryl



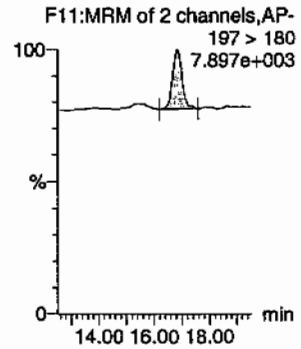
Nitrobenzene



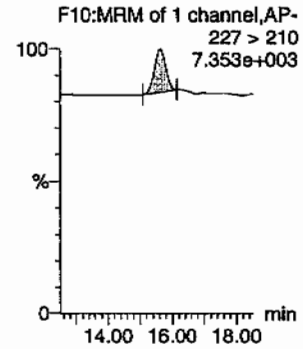
4-Amino-26-dinitrotoluene



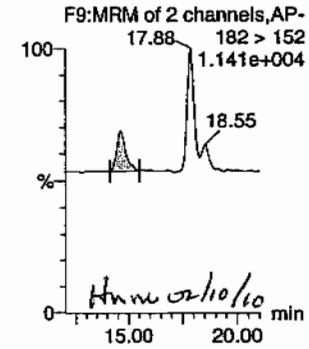
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

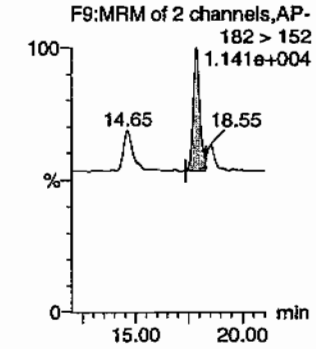


34-dinitrotoluene



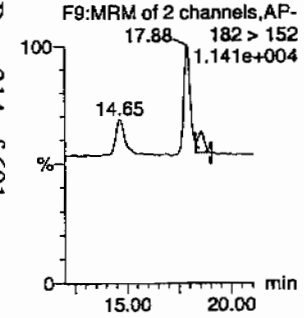
Hmm 2/10/10

26-dinitrotoluene

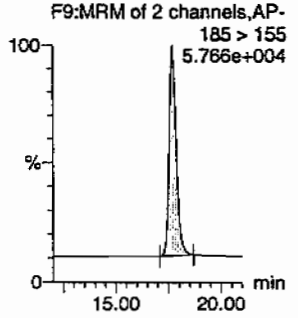


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

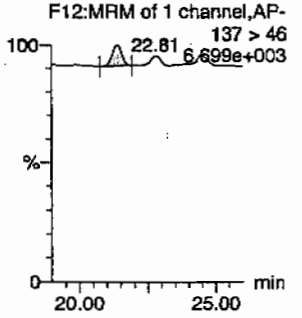
24-dinitrotoluene



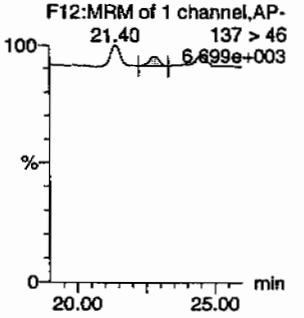
26-dinitrotoluene-d3



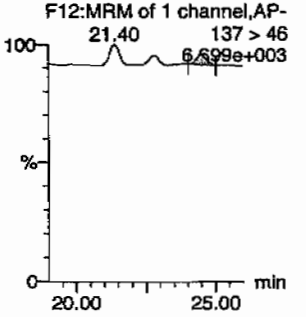
2-Nitrotoluene



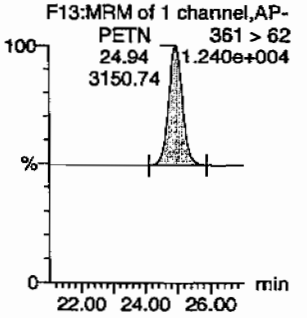
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	% Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.22	1079.752	3698.938	1079.752	145.954	bb			42.0278	105.1	5.1	142.2
WXX100208-08CRI	RDX	176 > 102	7.66	681.462	3698.938	681.462	92.116	bb			37.9368	94.8	-5.2	77.8
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.28	1185.200	3698.938	1185.200	160.208	bb			43.4987	108.7	8.7	112.1
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.20	3698.938		3698.938	3698.938	bb			575.3388	115.1	15.1	520.0
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.34	399.509	3698.938	399.509	54.003	bb			44.9130	112.3	12.3	46.9
WXX100208-08CRI	Tetryl	241 > 181	12.87	376.028	3698.938	376.028	50.829	bb			44.7099	111.8	11.8	36.6
WXX100208-08CRI	Nitrobenzene	123 > 46	13.76	241.726	3698.938	241.726	32.675	bb			40.4509	101.1	1.1	30.0
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.95	503.725	20551.385	503.725	12.255	MM	10-Feb-10	09:15:53	42.6648	106.7	6.7	25.0
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.84	723.475	20551.385	723.475	17.602	bb			44.4451	111.1	11.1	30.7
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.64	493.014	20551.385	493.014	11.995	bb			37.1739	92.9	-7.1	37.3
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.65	844.283	20551.385	844.283	20.541	bb			22.8233	114.1	14.1	68.4
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.88	1962.747	20551.385	1962.747	47.752	MM	10-Feb-10	09:11:38	44.4584	111.1	11.1	212.7
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.55	396.684	20551.385	396.684	9.651	MM	10-Feb-10	09:09:28	39.5450	98.9	-1.1	42.0
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.71	20551.385		20551.385	20551.385	bb			556.6560	111.3	11.3	1207.4
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.40	250.572	20551.385	250.572	6.096	bb			39.3183	98.3	-1.7	41.5
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.81	121.550	20551.385	121.550	2.957	bb			38.9095	97.3	-2.7	20.1
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.48	126.001	20551.385	126.001	3.066	bb			32.9019	82.3	-17.7	20.8
WXX100208-08CRI	PETN	361 > 62	24.94	3150.736	20551.385	3150.736	76.655	bb			36.2614	90.7	-9.3	631.2

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/09/10
Time of Injection	1519
Standard Number	WXX100208-08CRI
Data File	EXP0208051a

HMX		105.1
RDX		94.8
135-TNB		108.7
13-DNB		112.3
Tetryl		111.8
Nitrobenzene		101.1
4A-26-DNT		106.7
2A-46-DNT		111.1
246-TNT		92.9
34-DNT(surr)		114.1
26-DNT		111.1
24-DNT		98.9
2-NT		98.3
4-NT		97.3
3-NT		82.3
PETN		90.7
	Total	1637.2
	Average	102.3

MTP 2/10/10

Hmm 02/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208062a **Analysis Date:** 09-FEB-10 20:44

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	580.031	97	
RDX	600	625.098	104	
Tetryl	600	563.424	94	
m-Dinitrobenzene	600	616.138	103	
m-Nitrotoluene	600	563.078	94	
o-Nitrotoluene	600	586.398	98	
p-Nitrotoluene	600	590.193	98	
1,3,5-Trinitrobenzene	600	547.737	91	
1,3-Dinitrobenzene-d4	500	567.181	113	
2,4,6-Trinitrotoluene	600	715.292	119	
2,4-Dinitrotoluene	600	646.614	108	
2,6-Dinitrotoluene	600	637.73	106	
2,6-Dinitrotoluene-d3	500	528.196	106	
2-Amino-4,6-dinitrotoluene	600	658.061	110	
3,4-Dinitrotoluene	300	330.267	110	
4-Amino-2,6-dinitrotoluene	600	627.96	105	
HMX	600	599.91	100	
Nitrobenzene	600	551.5	92	

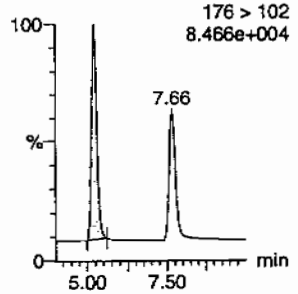
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

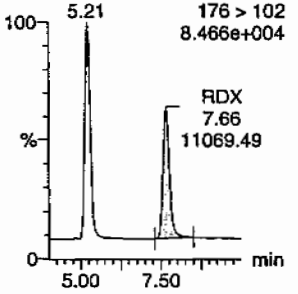
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208062a
Date: 09-Feb-2010
Time: 20:44:30
ID: WXX100208-07CCV
Vial: 1:1,B

MM 2/10/10

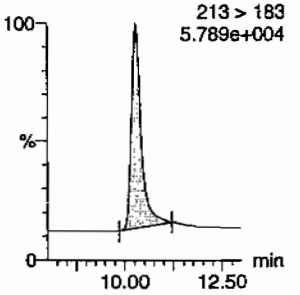
HMX



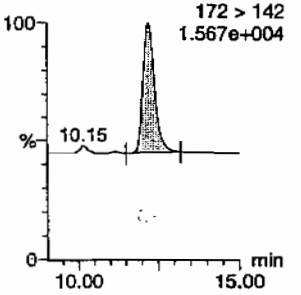
RDX



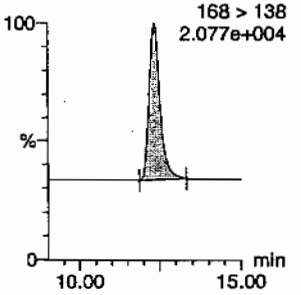
135-Trinitrobenzene



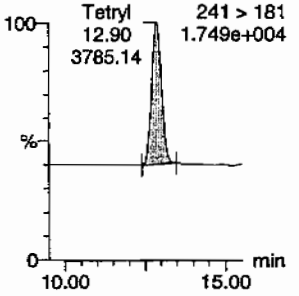
13-Dinitrobenzene-d4



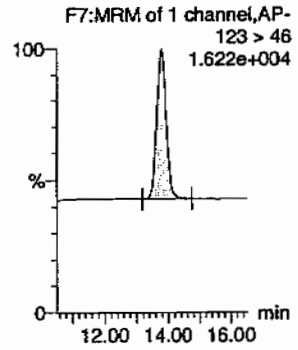
13-Dinitrobenzene



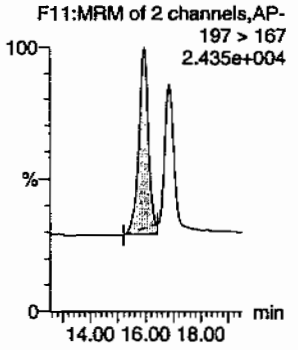
Tetryl



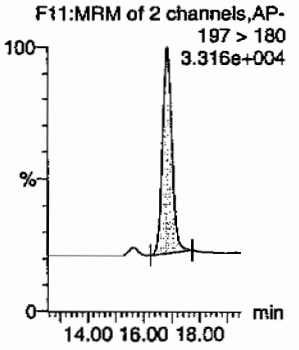
Nitrobenzene



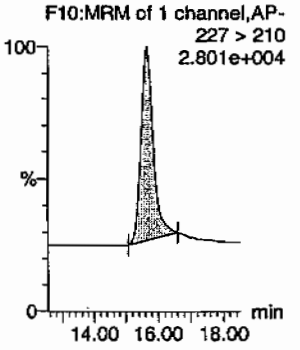
4-Amino-26-dinitrotoluene



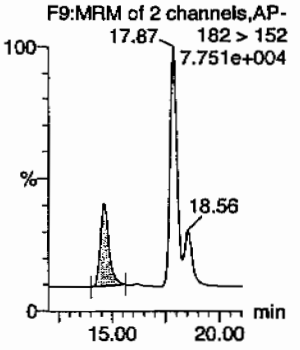
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

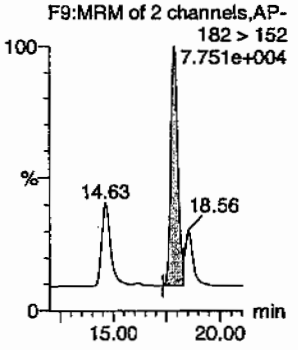


34-dinitrotoluene



Hmw 02/10/10

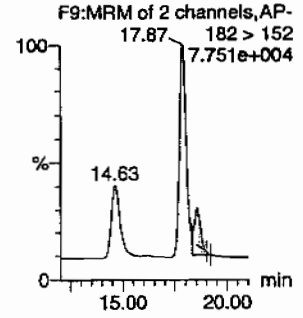
26-dinitrotoluene



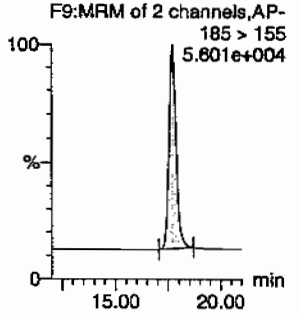
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

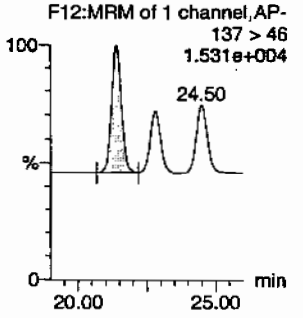
24-dinitrotoluene



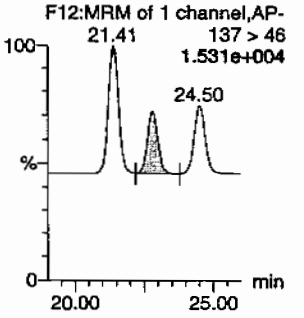
26-dinitrotoluene-d3



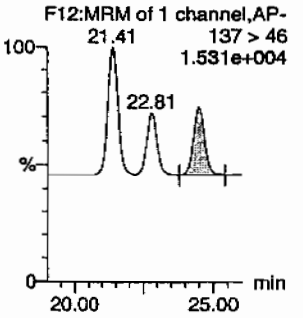
2-Nitrotoluene



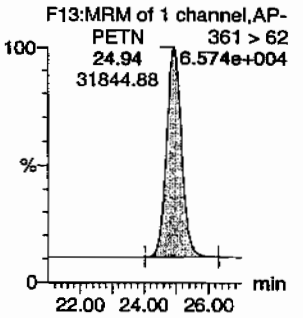
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.21	15193.972	3646.489	15193.972	2083.370	bb			599.9101	100.0	-0.0	2159.2
WXX100208-07CCV	RDX	176 > 102	7.66	11069.486	3646.489	11069.486	1517.828	bb			625.0982	104.2	4.2	1309.8
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.30	14712.466	3646.489	14712.466	2017.347	bb			547.7372	91.3	-8.7	911.4
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.20	3646.489		3646.489	3646.489	bb			567.1808	113.4	13.4	245.8
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.34	5402.941	3646.489	5402.941	740.842	bb			616.1379	102.7	2.7	784.8
WXX100208-07CCV	Tetryl	241 > 181	12.90	3785.138	3646.489	3785.138	519.011	bb			563.4238	93.9	-6.1	224.4
WXX100208-07CCV	Nitrobenzene	123 > 46	13.79	3248.918	3646.489	3248.918	445.486	bb			551.5002	91.9	-8.1	291.5
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.94	7034.992	19500.662	7034.992	180.378	MM	10-Feb-10	09:14:42	627.9599	104.7	4.7	282.3
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.83	10164.215	19500.662	10164.215	260.612	bb			658.0609	109.7	9.7	492.6
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.63	9001.442	19500.662	9001.442	230.798	bb			715.2919	119.2	19.2	634.3
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.63	11592.679	19500.662	11592.679	297.238	bb			330.2675	110.1	10.1	650.3
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.87	26715.053	19500.662	26715.053	684.978	MM	10-Feb-10	09:12:13	637.7300	106.3	6.3	1878.4
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.56	6154.682	19500.662	6154.682	157.807	MM	10-Feb-10	09:08:50	646.6135	107.8	7.8	424.9
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.70	19500.662		19500.662	19500.662	bb			528.1961	105.6	5.6	929.9
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.41	3546.001	19500.662	3546.001	90.920	bb			586.3983	97.7	-2.3	592.3
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.81	1749.453	19500.662	1749.453	44.856	bb			590.1932	98.4	-1.6	284.2
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.50	2046.115	19500.662	2046.115	52.463	bb			563.0782	93.8	-6.2	310.9
WXX100208-07CCV	PETN	361 > 62	24.94	31844.883	19500.662	31844.883	816.508	bb			580.0314	96.7	-3.3	6751.2

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/09/10
Time of Injection: 2044
Standard Number: WXX100208-07CCV
Data File: EXP0208062a

HMX	100.0
RDX	104.2
135-TNB	91.3
13-DNB	102.7
Tetryl	93.9
Nitrobenzene	91.9
4A-26-DNT	104.7
2A-46-DNT	109.7
246-TNT	119.2
34-DNT(surr)	110.1
26-DNT	106.3
24-DNT	107.8
2-NT	97.7
4-NT	98.4
3-NT	93.8
PETN	96.7
Total	1628.4
Average	101.8

2/10/10

2/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208064a

Analysis Date: 09-FEB-10 21:43

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	40	39.085	98	
2,6-Dinitrotoluene	40	43.106	108	
2,6-Dinitrotoluene-d3	500	567.8	114	
2-Amino-4,6-dinitrotoluene	40	39.591	99	
3,4-Dinitrotoluene	20	24.084	120	
4-Amino-2,6-dinitrotoluene	40	41.143	103	
HMX	40	39.239	98	
Nitrobenzene	40	38.933	97	
PETN	40	36.686	92	
RDX	40	36.427	91	
Tetryl	40	34.123	85	
m-Dinitrobenzene	40	38.756	97	
m-Nitrotoluene	40	38.95	97	
o-Nitrotoluene	40	40.457	101	
p-Nitrotoluene	40	34.567	86	
1,3,5-Trinitrobenzene	40	43.241	108	
1,3-Dinitrobenzene-d4	500	602.61	121	
2,4,6-Trinitrotoluene	40	38.148	95	

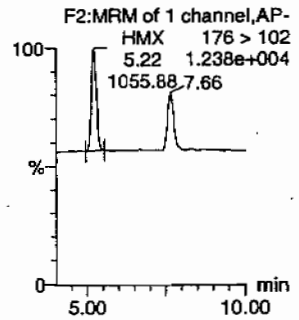
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

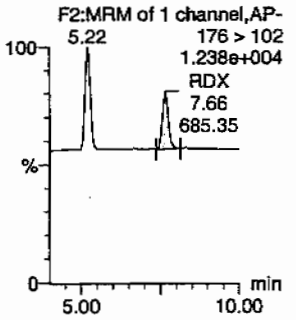
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208064a
Date: 09-Feb-2010
Time: 21:43:27
ID: WXX100208-08CRI
Vial: 1:1,C

MMT 2/10/10

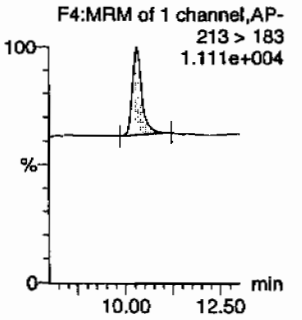
HMX



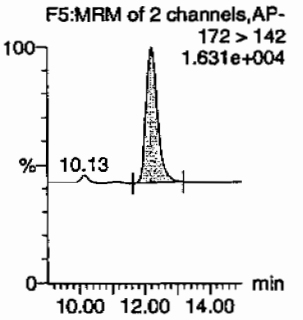
RDX



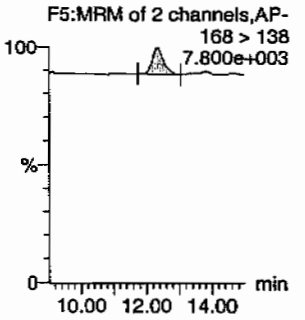
135-Trinitrobenzene



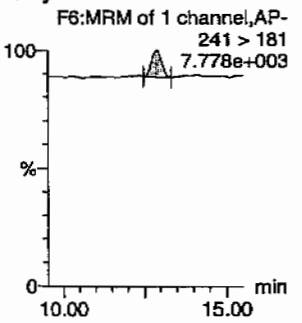
13-Dinitrobenzene-d4



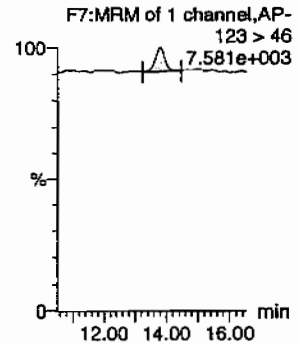
13-Dinitrobenzene



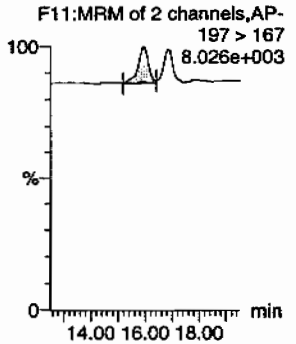
Tetryl



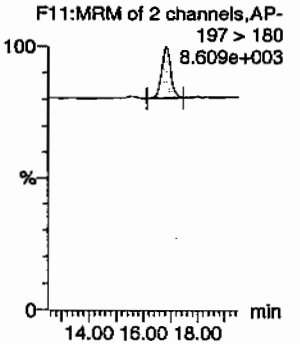
Nitrobenzene



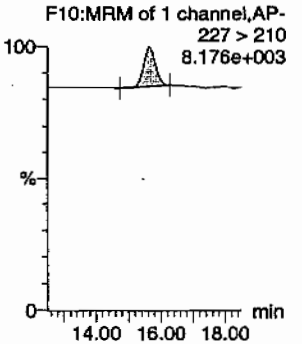
4-Amino-26-dinitrotoluene



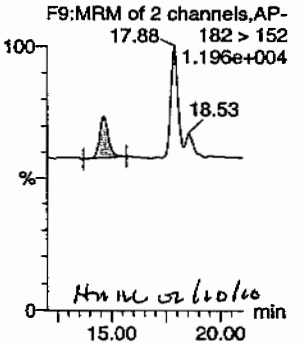
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

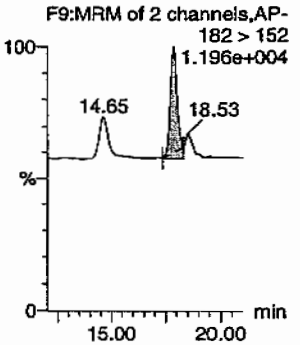


34-dinitrotoluene



HMM 02/10/10

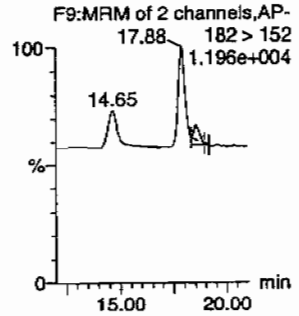
26-dinitrotoluene



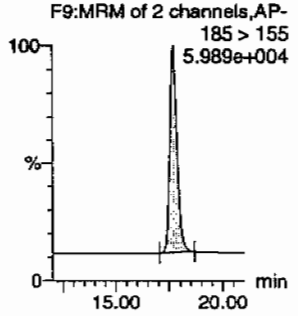
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

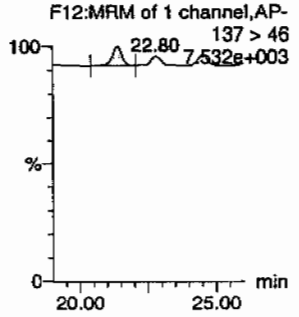
24-dinitrotoluene



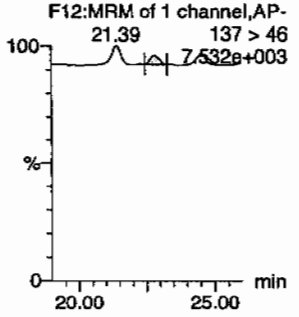
26-dinitrotoluene-d3



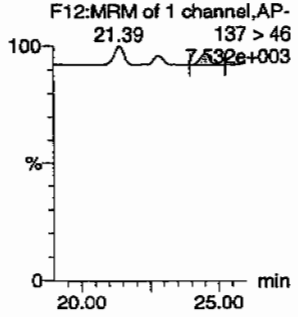
2-Nitrotoluene



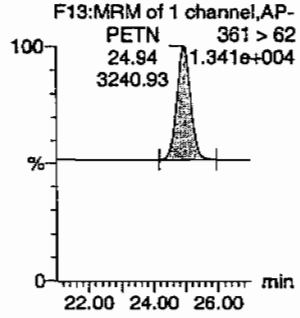
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs:Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%DeV	S/N
WXX100208-08CRI	HMX	176 > 102	5.22	1055.883	3874.267	1055.883	136.269	bb			39.2388	98.1	-1.9	268.1
WXX100208-08CRI	RDX	176 > 102	7.66	685.352	3874.267	685.352	88.449	bb			36.4267	91.1	-8.9	148.4
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.30	1234.027	3874.267	1234.027	159.259	bb			43.2411	108.1	8.1	146.8
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.20	3874.267		3874.267	3874.267	bb			602.6098	120.5	20.5	308.3
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.34	361.083	3874.267	361.083	46.600	bb			38.7561	96.9	-3.1	29.4
WXX100208-08CRI	Tetryl	241 > 181	12.92	315.552	3874.267	315.552	40.724	bb			34.1231	85.3	-14.7	25.2
WXX100208-08CRI	Nitrobenzene	123 > 46	13.80	243.681	3874.267	243.681	31.449	bb			38.9327	97.3	-2.7	18.5
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.95	495.481	20962.824	495.481	11.818	MM	10-Feb-10	09:14:32	41.1429	102.9	2.9	52.0
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.84	657.359	20962.824	657.359	15.679	bb			39.5908	99.0	-1.0	64.0
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.64	516.055	20962.824	516.055	12.309	bb			38.1476	95.4	-4.6	49.9
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.65	908.764	20962.824	908.764	21.676	bb			24.0842	120.4	20.4	46.7
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.88	1941.125	20962.824	1941.125	46.299	MM	10-Feb-10	09:12:20	43.1056	107.8	7.8	126.2
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.53	399.918	20962.824	399.918	9.539	MM	10-Feb-10	09:08:33	39.0850	97.7	-2.3	25.9
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.71	20962.824		20962.824	20962.824	bb			567.8003	113.6	13.6	2300.0
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.39	262.989	20962.824	262.989	6.273	bb			40.4568	101.1	1.1	52.2
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.80	110.147	20962.824	110.147	2.627	bb			34.5672	86.4	-13.6	23.8
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.53	152.150	20962.824	152.150	3.629	bb			38.9502	97.4	-2.6	30.6
WXX100208-08CRI	PETN	361 > 62	24.94	3240.928	20962.824	3240.928	77.302	bb			36.6863	91.7	-8.3	1151.2

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/09/10
Time of Injection	2143
Standard Number	WXX100208-08CRI
Data File	EXP0208064a

HMX	98.1
RDX	91.1
135-TNB	108.1
13-DNB	96.9
Tetryl	85.3
Nitrobenzene	97.3
4A-26-DNT	102.9
2A-46-DNT	99.0
246-TNT	95.4
34-DNT(surr)	120.4
26-DNT	107.8
24-DNT	97.7
2-NT	101.1
4-NT	86.4
3-NT	97.4
PETN	91.7
Total	1576.6
Average	98.5

MST 2/10/10

Hnm 02/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208075a **Analysis Date:** 10-FEB-10 03:07

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

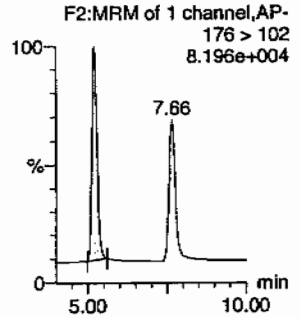
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	550.541	92	
1,3-Dinitrobenzene-d4	500	536.255	107	
2,4,6-Trinitrotoluene	600	692.977	115	
2,4-Dinitrotoluene	600	649.004	108	
2,6-Dinitrotoluene	600	623.523	104	
2,6-Dinitrotoluene-d3	500	505.287	101	
2-Amino-4,6-dinitrotoluene	600	658.154	110	
3,4-Dinitrotoluene	300	327.707	109	
4-Amino-2,6-dinitrotoluene	600	625.18	104	
HMX	600	619.895	103	
Nitrobenzene	600	588.662	98	
PETN	600	650.959	108	
RDX	600	712.542	119	
Tetryl	600	559.722	93	
m-Dinitrobenzene	600	613.819	102	
m-Nitrotoluene	600	614.037	102	
o-Nitrotoluene	600	663.004	111	
p-Nitrotoluene	600	675.946	113	

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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

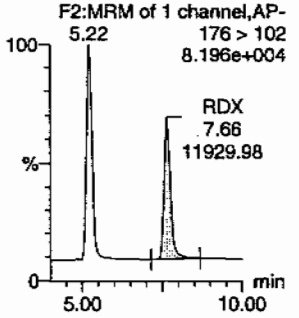
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208075a
Date: 10-Feb-2010
Time: 03:07:54
ID: WXX100208-07CCV
Vial: 1:1,B

2/10/10

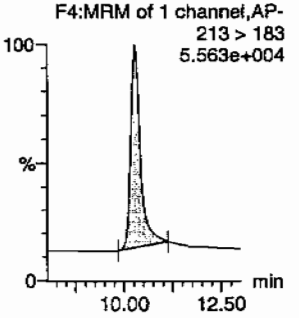
HMX



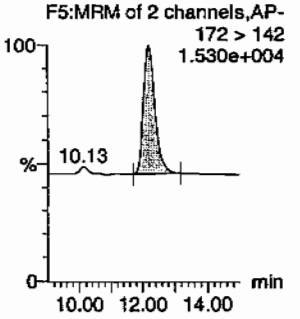
RDX



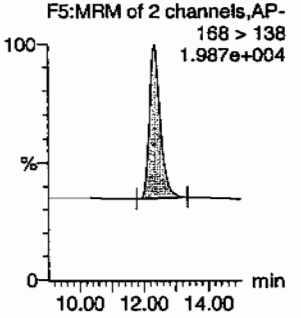
135-Trinitrobenzene



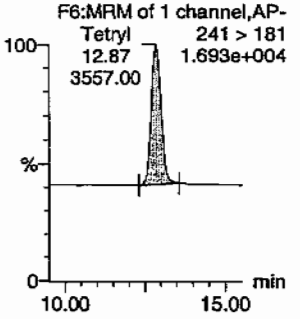
13-Dinitrobenzene-d4



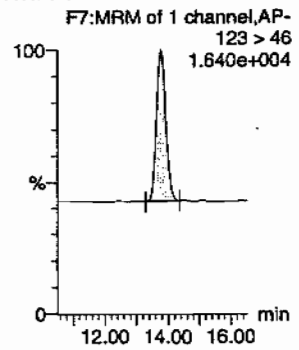
13-Dinitrobenzene



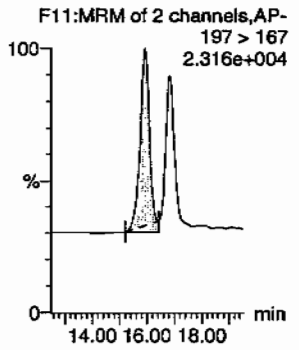
Tetryl



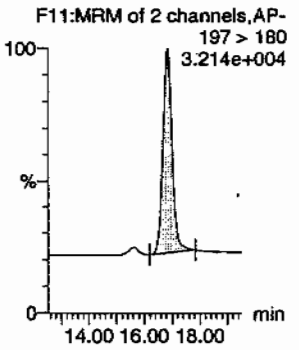
Nitrobenzene



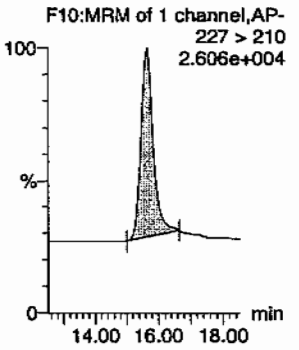
4-Amino-26-dinitrotoluene



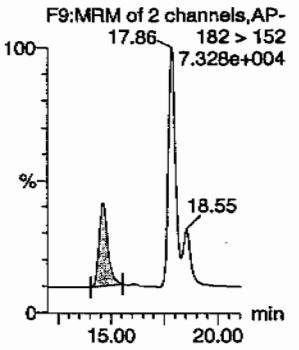
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

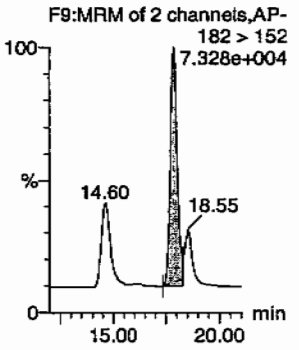


34-dinitrotoluene



Hmm 2/10/10

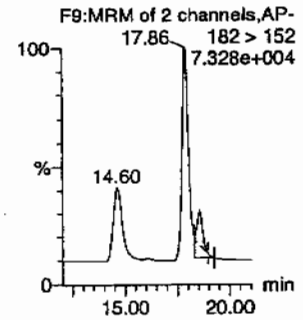
26-dinitrotoluene



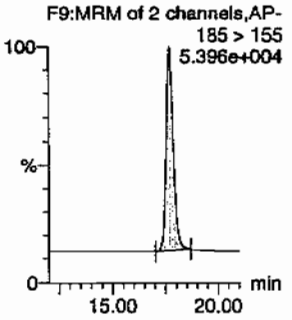
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

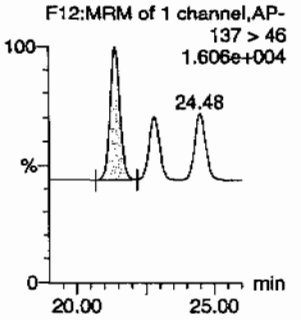
24-dinitrotoluene



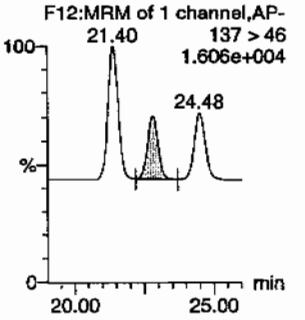
26-dinitrotoluene-d3



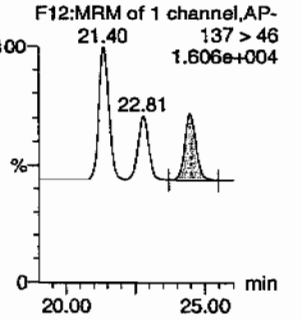
2-Nitrotoluene



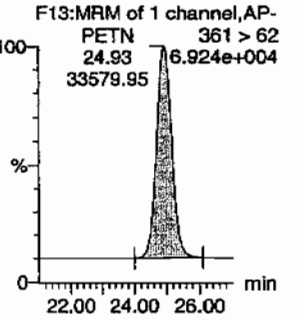
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.22	14844.065	3447.663	14844.065	2152.772	bb			619.8946	103.3	3.3	1246.9
WXX100208-07CCV	RDX	176 > 102	7.66	11929.981	3447.663	11929.981	1730.155	bb			712.5423	118.8	18.8	827.0
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.28	13981.463	3447.663	13981.463	2027.673	bb			550.5408	91.8	-8.2	944.0
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.20	3447.663		3447.663	3447.663	bb			536.2551	107.3	7.3	275.6
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.34	5089.118	3447.663	5089.118	738.053	bb			613.8190	102.3	2.3	369.5
WXX100208-07CCV	Tetryl	241 > 181	12.87	3557.003	3447.663	3557.003	515.857	bb			559.7220	93.3	-6.7	295.2
WXX100208-07CCV	Nitrobenzene	123 > 46	13.76	3278.754	3447.663	3278.754	475.504	bb			588.6618	98.1	-1.9	218.5
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.92	6700.083	18654.883	6700.083	179.580	MM	10-Feb-10	09:13:53	625.1803	104.2	4.2	198.3
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.84	9724.758	18654.883	9724.758	260.649	bb			658.1545	109.7	9.7	633.0
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.64	8342.395	18654.883	8342.395	223.598	bb			692.9769	115.5	15.5	738.6
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.60	11003.918	18654.883	11003.918	294.934	bb			327.7073	109.2	9.2	449.6
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.86	24987.027	18654.883	24987.027	669.718	MM	10-Feb-10	09:12:57	623.5227	103.9	3.9	1289.9
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.55	5909.508	18654.883	5909.508	158.390	MM	10-Feb-10	09:07:37	649.0039	108.2	8.2	295.3
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.71	18654.883		18654.883	18654.883	bb			505.2872	101.1	1.1	2644.3
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.40	3835.353	18654.883	3835.353	102.798	bb			663.0038	110.5	10.5	650.4
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.81	1916.741	18654.883	1916.741	51.374	bb			675.9463	112.7	12.7	309.9
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.48	2134.515	18654.883	2134.515	57.211	bb			614.0372	102.3	2.3	323.7
WXX100208-07CCV	PETN	361 > 62	24.93	33579.945	18654.883	33579.945	900.031	bb			650.9591	108.5	8.5	11066.5

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/10/10
Time of Injection: 0307
Standard Number: WXX100208-07CCV
Data File: EXP0208075a

HMX	103.3
RDX	118.8
135-TNB	91.8
13-DNB	102.3
Tetryl	93.3
Nitrobenzene	98.1
4A-26-DNT	104.2
2A-46-DNT	109.7
246-TNT	115.5
34-DNT(surr)	109.2
26-DNT	103.9
24-DNT	108.2
2-NT	110.5
4-NT	112.7
3-NT	102.3
PETN	108.5
Total	1692.3
Average	105.8

2/10/10

2/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208077a

Analysis Date: 10-FEB-10 04:06

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	40	42.442	106	
m-Nitrotoluene	40	42.653	107	
o-Nitrotoluene	40	37.743	94	
p-Nitrotoluene	40	39.09	98	
1,3,5-Trinitrobenzene	40	43.814	110	
1,3-Dinitrobenzene-d4	500	565.719	113	
2,4,6-Trinitrotoluene	40	37.653	94	
2,4-Dinitrotoluene	40	39.671	99	
2,6-Dinitrotoluene	40	41.489	104	
2,6-Dinitrotoluene-d3	500	565.139	113	
2-Amino-4,6-dinitrotoluene	40	39.866	100	
3,4-Dinitrotoluene	20	21.452	107	
4-Amino-2,6-dinitrotoluene	40	37.145	93	
HMX	40	44.845	112	
Nitrobenzene	40	36.774	92	
PETN	40	41.094	103	
RDX	40	40.397	101	
Tetryl	40	40.051	100	

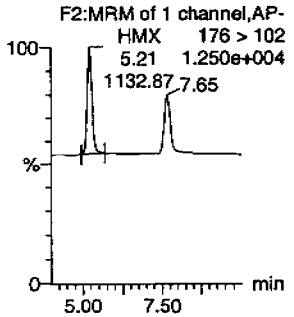
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

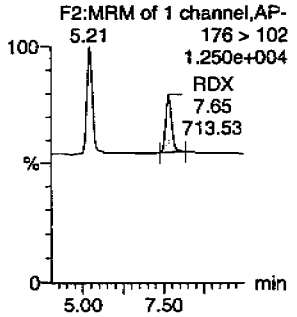
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208077a
Date: 10-Feb-2010
Time: 04:06:59
ID: WXX100208-08CRI
Vial: 1:1,C

MM 2/10/10

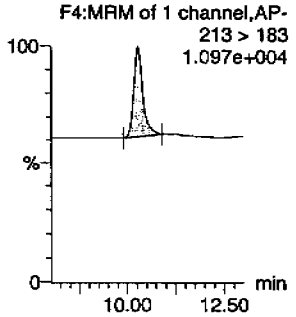
HMX



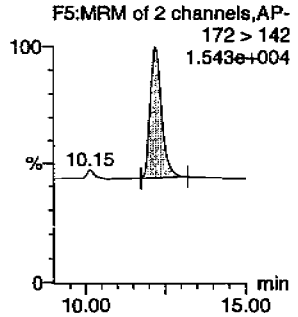
RDX



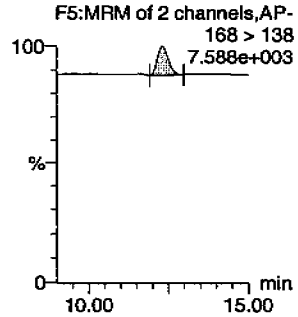
135-Trinitrobenzene



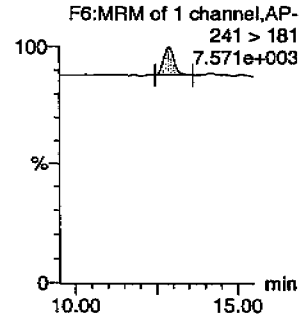
13-Dinitrobenzene-d4



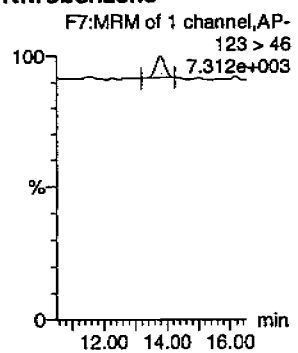
13-Dinitrobenzene



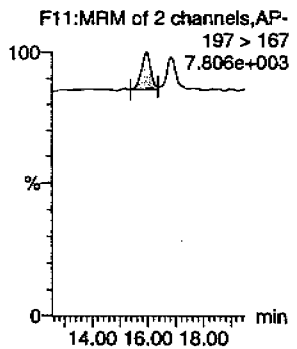
Tetryl



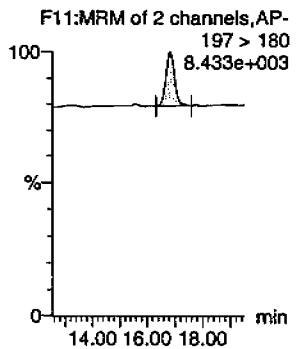
Nitrobenzene



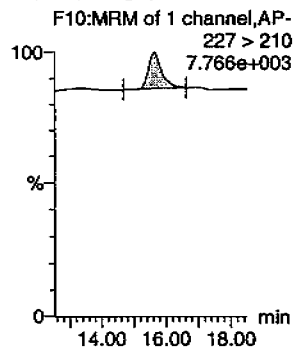
4-Amino-26-dinitrotoluene



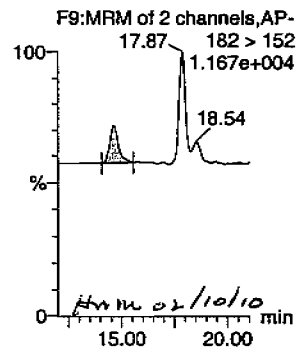
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

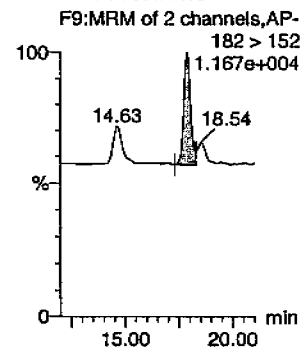


34-dinitrotoluene



HMM 02/10/10

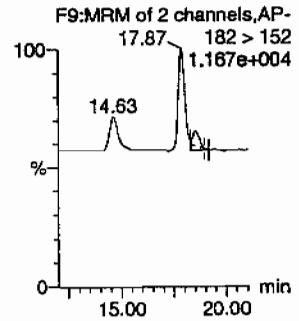
26-dinitrotoluene



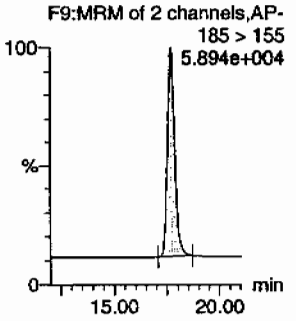
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

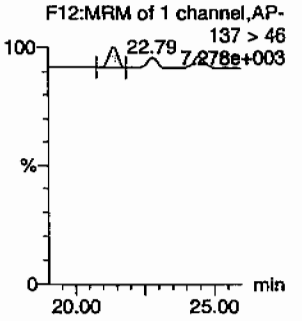
24-dinitrotoluene



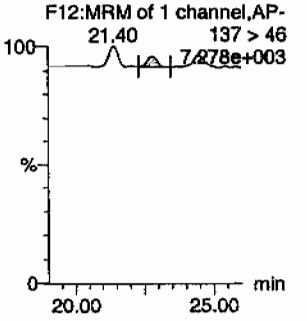
26-dinitrotoluene-d3



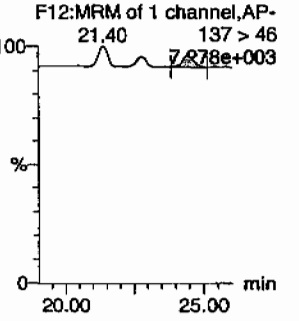
2-Nitrotoluene



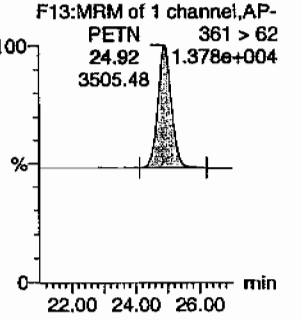
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.21	1132.865	3637.088	1132.865	155.738	bb			44.8450	112.1	12.1	170.9
WXX100208-08CRI	RDX	176 > 102	7.65	713.529	3637.088	713.529	98.091	bb			40.3974	101.0	1.0	93.3
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.28	1173.815	3637.088	1173.815	161.367	bb			43.8135	109.5	9.5	193.8
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.20	3637.088		3637.088	3637.088	bb			565.7186	113.1	13.1	278.8
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.34	371.218	3637.088	371.218	51.032	bb			42.4422	106.1	6.1	32.1
WXX100208-08CRI	Tetryl	241 > 181	12.85	337.410	3637.088	337.410	46.385	bb			40.0506	100.1	0.1	25.8
WXX100208-08CRI	Nitrobenzene	123 > 46	13.79	216.078	3637.088	216.078	29.705	bb			36.7738	91.9	-8.1	17.3
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.94	445.232	20864.584	445.232	10.670	MM	10-Feb-10	09:13:47	37.1445	92.9	-7.1	24.2
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.83	658.821	20864.584	658.821	15.788	bb			39.8657	99.7	-0.3	32.7
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.63	506.976	20864.584	506.976	12.149	bb			37.6529	94.1	-5.9	22.7
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.63	805.661	20864.584	805.661	19.307	bb			21.4523	107.3	7.3	51.9
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.87	1859.565	20864.584	1859.565	44.563	MM	10-Feb-10	09:13:03	41.4889	103.7	3.7	155.7
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.54	404.009	20864.584	404.009	9.682	MM	10-Feb-10	09:07:27	39.6707	99.2	-0.8	29.4
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.70	20864.584		20864.584	20864.584	bb			565.1393	113.0	13.0	1872.1
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.40	244.201	20864.584	244.201	5.852	bb			37.7434	94.4	-5.6	60.9
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.79	123.975	20864.584	123.975	2.971	bb			39.0900	97.7	-2.3	29.1
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.45	165.831	20864.584	165.831	3.974	bb			42.6525	106.6	6.6	33.9
WXX100208-08CRI	PETN	361 > 62	24.92	3505.484	20864.584	3505.484	84.006	bb			41.0940	102.7	2.7	796.3

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/10/10
Time of Injection	0406
Standard Number	WXX100208-08CRI
Data File	EXP0208077a

HMX	112.1
RDX	101.0
135-TNB	109.5
13-DNB	106.1
Tetryl	100.1
Nitrobenzene	91.9
4A-26-DNT	92.9
2A-46-DNT	99.7
246-TNT	94.1
34-DNT(surr)	107.3
26-DNT	103.7
24-DNT	99.2
2-NT	94.4
4-NT	97.7
3-NT	106.6
PETN	102.7
Total	1619.0
Average	101.2

MAT 2/10/10

Hmm 02/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208088a **Analysis Date:** 10-FEB-10 09:31

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	606.731	101	
2,6-Dinitrotoluene	600	600.008	100	
2,6-Dinitrotoluene-d3	500	520.615	104	
2-Amino-4,6-dinitrotoluene	600	614.083	102	
3,4-Dinitrotoluene	300	347.135	116	
4-Amino-2,6-dinitrotoluene	600	606.995	101	
HMX	600	579.88	97	
Nitrobenzene	600	606.863	101	
PETN	600	627.526	105	
RDX	600	633.367	106	
Tetryl	600	602.321	100	
m-Dinitrobenzene	600	605.649	101	
m-Nitrotoluene	600	598.093	100	
o-Nitrotoluene	600	665.518	111	
p-Nitrotoluene	600	667.409	111	
1,3,5-Trinitrobenzene	600	541.95	90	
1,3-Dinitrobenzene-d4	500	565.857	113	
2,4,6-Trinitrotoluene	600	708.706	118	

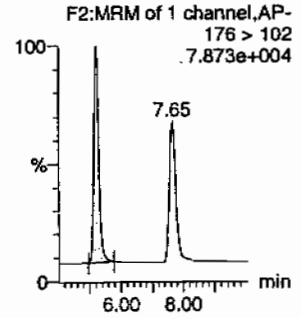
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Page 333 of 691

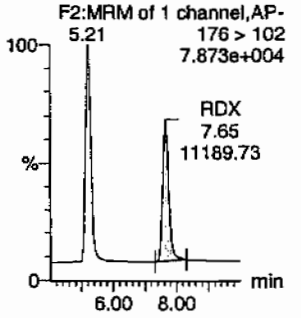
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208088a
Date: 10-Feb-2010
Time: 09:31:30
ID: WXX100208-07CCV
Vial: 1:1,B

MM 2/11/10

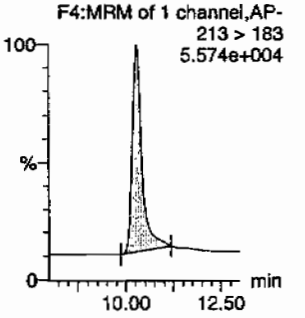
HMX



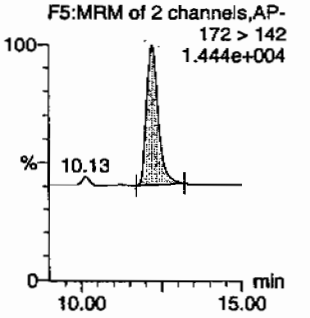
RDX



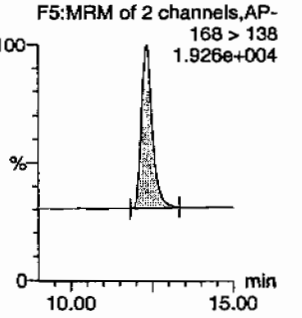
135-Trinitrobenzene



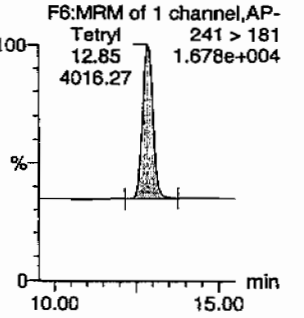
13-Dinitrobenzene-d4



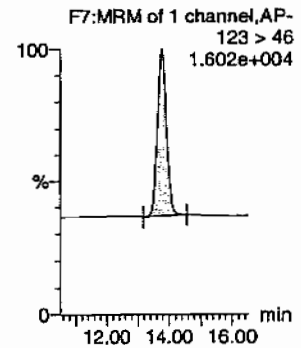
13-Dinitrobenzene



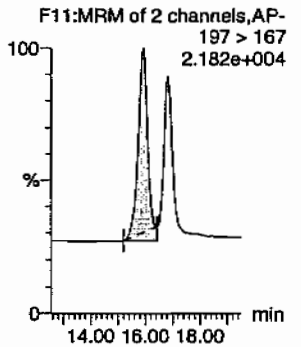
Tetryl



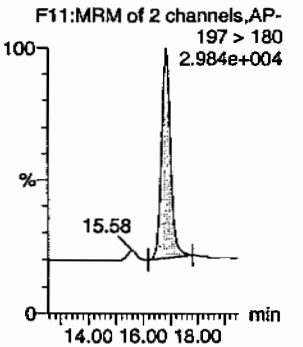
Nitrobenzene



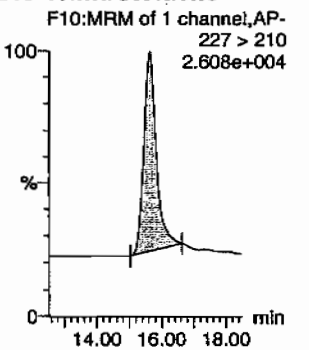
4-Amino-26-dinitrotoluene



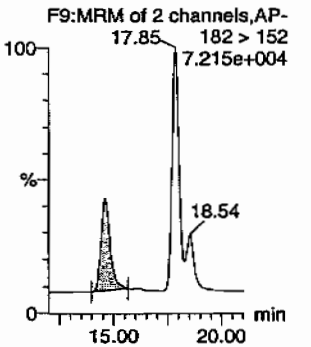
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

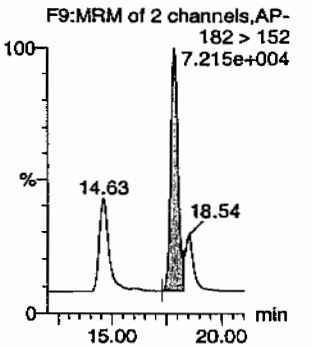


34-dinitrotoluene



Hmm 2/11/10

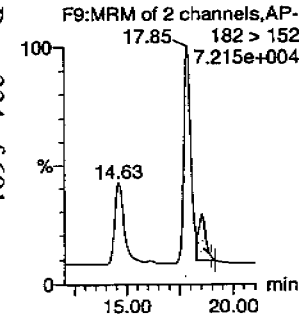
26-dinitrotoluene



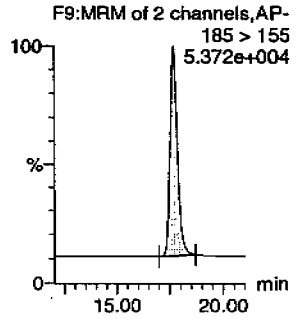
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

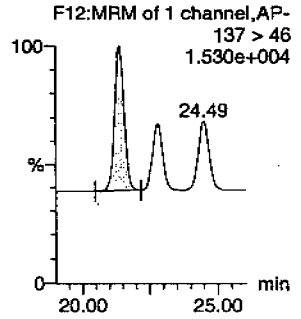
24-dinitrotoluene



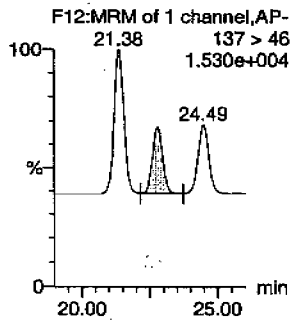
26-dinitrotoluene-d3



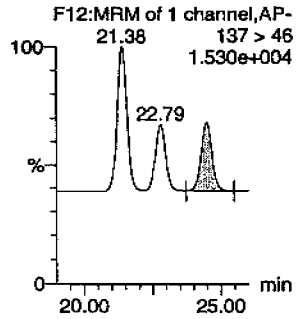
2-Nitrotoluene



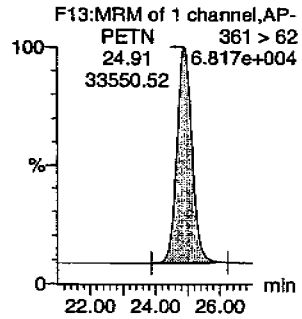
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.21	14652.377	3637.978	14652.377	2013.808	bb			579.8796	96.6	-3.4	2714.8
WXX100208-07CCV	RDX	176 > 102	7.65	11189.726	3637.978	11189.726	1537.905	bb			633.3665	105.6	5.6	1781.0
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.28	14523.040	3637.978	14523.040	1996.032	bb			541.9499	90.3	-9.7	563.5
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.20	3637.978		3637.978	3637.978	bb			565.8570	113.2	13.2	469.5
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.34	5298.564	3637.978	5298.564	728.229	bb			605.6486	100.9	0.9	921.9
WXX100208-07CCV	Tetryl	241 > 181	12.85	4016.270	3637.978	4016.270	551.992	bb			602.3214	100.4	0.4	449.6
WXX100208-07CCV	Nitrobenzene	123 > 46	13.79	3566.716	3637.978	3566.716	490.206	bb			606.8625	101.1	1.1	460.5
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.91	6702.521	19220.766	6702.521	174.356	MM	11-Feb-10	09:29:59	606.9950	101.2	1.2	645.3
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.83	9348.814	19220.766	9348.814	243.196	bb			614.0835	102.3	2.3	822.4
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.63	8790.558	19220.766	8790.558	228.673	bb			708.7063	118.1	18.1	490.0
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.63	12009.858	19220.766	12009.858	312.419	bb			347.1351	115.7	15.7	266.6
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.85	24774.061	19220.766	24774.061	644.461	MM	11-Feb-10	09:56:51	600.0075	100.0	0.0	715.2
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.54	5692.178	19220.766	5692.178	148.074	MM	11-Feb-10	10:04:27	606.7311	101.1	1.1	152.1
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.70	19220.766		19220.766	19220.766	bb			520.6148	104.1	4.1	1918.1
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.38	3966.684	19220.766	3966.684	103.187	bb			665.5185	110.9	10.9	439.7
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.79	1949.940	19220.766	1949.940	50.725	bb			667.4087	111.2	11.2	203.9
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.49	2142.158	19220.766	2142.158	55.725	bb			598.0932	99.7	-0.3	213.4
WXX100208-07CCV	PETN	361 > 62	24.91	33550.523	19220.766	33550.523	872.768	bb			627.5257	104.6	4.6	5599.7

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/10/10
Time of Injection: 0931
Standard Number: WXX100208-07CCV
Data File: EXP0208088a

HMX	96.6
RDX	105.6
135-TNB	90.3
13-DNB	100.9
Tetryl	100.4
Nitrobenzene	101.1
4A-26-DNT	101.2
2A-46-DNT	102.3
246-TNT	118.1
34-DNT(surr)	115.7
26-DNT	100.0
24-DNT	101.1
2-NT	110.9
4-NT	111.2
3-NT	99.7
PETN	104.6
Total	1659.7
Average	103.7

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208090a **Analysis Date:** 10-FEB-10 10:30

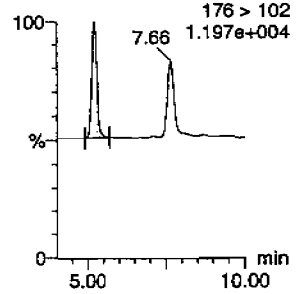
LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

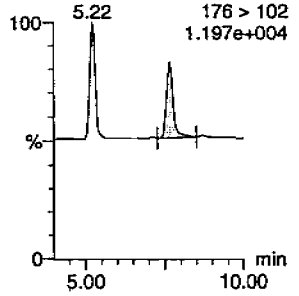
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	39.025	98	
1,3-Dinitrobenzene-d4	500	604.965	121	
2,4,6-Trinitrotoluene	40	40.552	101	
2,4-Dinitrotoluene	40	36.402	91	
2,6-Dinitrotoluene	40	40.121	100	
2,6-Dinitrotoluene-d3	500	599.331	120	
2-Amino-4,6-dinitrotoluene	40	39.239	98	
3,4-Dinitrotoluene	20	21.64	108	
4-Amino-2,6-dinitrotoluene	40	37.109	93	
HMX	40	43.322	108	
Nitrobenzene	40	42.181	105	
PETN	40	34.532	86	
RDX	40	50.422	126	
Tetryl	40	35.418	89	
m-Dinitrobenzene	40	44.912	112	
m-Nitrotoluene	40	42.094	105	
o-Nitrotoluene	40	35.885	90	
p-Nitrotoluene	40	39.742	99	

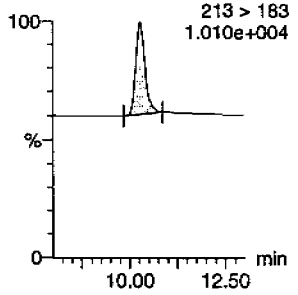
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

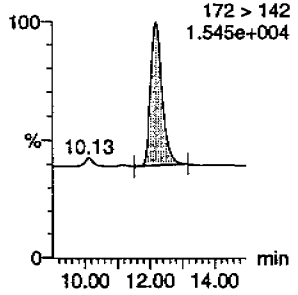
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208090a
Date: 10-Feb-2010
Time: 10:30:41
ID: WXX100208-08CRI
Vial: 1:1,C

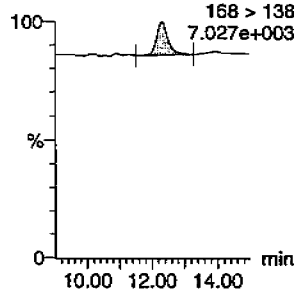
MM 2/11/10

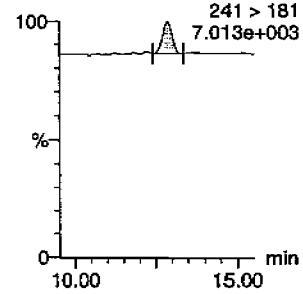
HMX
F2:MRM of 1 channel,AP-
176 > 102
1.197e+004
7.66


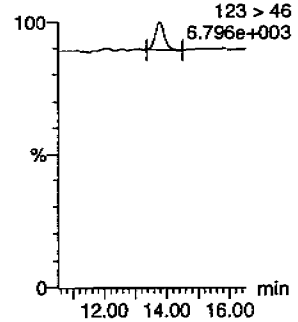
RDX
F2:MRM of 1 channel,AP-
5.22
176 > 102
1.197e+004


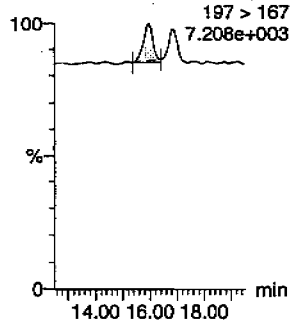
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
1.010e+004


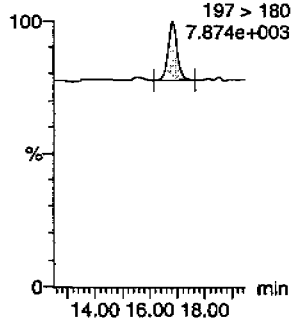
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.545e+004
10.13


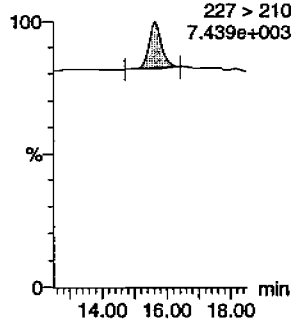
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
7.027e+003


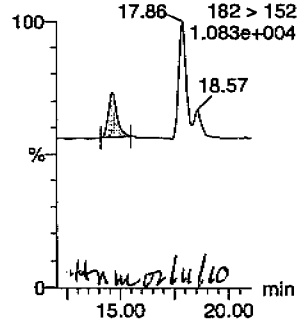
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
7.013e+003


Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.796e+003


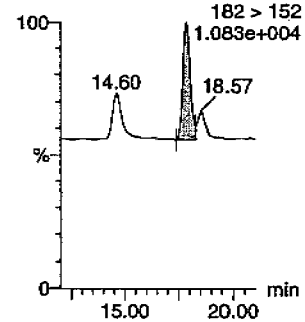
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
7.208e+003


2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
7.874e+003


246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
7.439e+003


34-dinitrotoluene
F9:MRM of 2 channels,AP-
17.86
182 > 152
1.083e+004
18.57


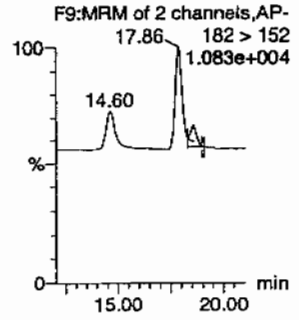
Hnw 2/11/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
1.083e+004
14.60
18.57


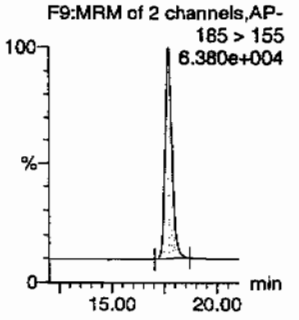
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

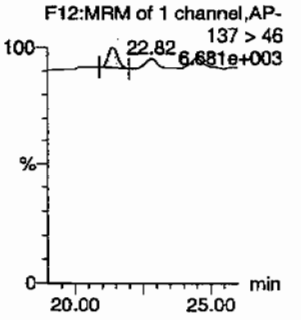
24-dinitrotoluene



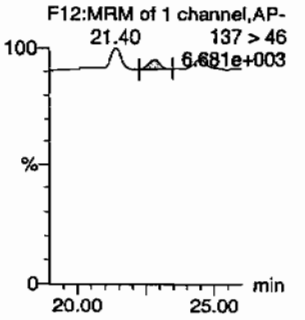
26-dinitrotoluene-d3



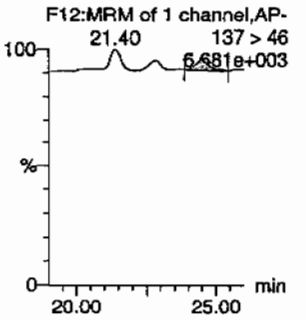
2-Nitrotoluene



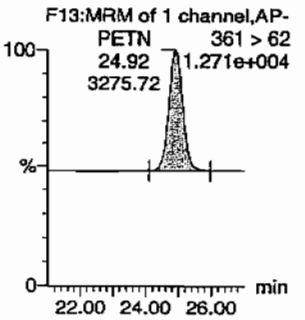
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.22	1170.302	3889.412	1170.302	150.447	bb			43.3215	108.3	8.3	180.4
WXX100208-08CRI	RDX	176 > 102	7.66	952.380	3889.412	952.380	122.432	bb			50.4222	126.1	26.1	117.0
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.28	1118.047	3889.412	1118.047	143.730	bb			39.0245	97.6	-2.4	121.4
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.21	3889.412		3889.412	3889.412	bb			604.9654	121.0	21.0	317.4
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.31	420.071	3889.412	420.071	54.002	bb			44.9119	112.3	12.3	59.5
WXX100208-08CRI	Tetryl	241 > 181	12.87	326.408	3889.412	326.408	41.961	bb			35.4178	88.5	-11.5	30.5
WXX100208-08CRI	Nitrobenzene	123 > 46	13.80	265.042	3889.412	265.042	34.072	bb			42.1806	105.5	5.5	27.2
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.95	471.715	22126.934	471.715	10.659	MM	11-Feb-10	09:29:49	37.1087	92.8	-7.2	31.2
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.84	687.696	22126.934	687.696	15.540	bb			39.2389	98.1	-1.9	58.8
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.64	579.040	22126.934	579.040	13.085	bb			40.5516	101.4	1.4	19.2
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.60	861.880	22126.934	861.880	19.476	bb			21.6400	108.2	8.2	20.7
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.86	1907.043	22126.934	1907.043	43.093	MM	11-Feb-10	09:57:00	40.1208	100.3	0.3	55.2
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.57	393.149	22126.934	393.149	8.884	MM	11-Feb-10	10:04:19	36.4019	91.0	-9.0	12.3
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.69	22126.934		22126.934	22126.934	bb			599.3314	119.9	19.9	1771.2
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.40	246.227	22126.934	246.227	5.564	bb			35.8854	89.7	-10.3	58.2
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.82	133.668	22126.934	133.668	3.020	bb			39.7418	99.4	-0.6	27.5
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.48	173.561	22126.934	173.561	3.922	bb			42.0939	105.2	5.2	29.3
WXX100208-08CRI	PETN	361 > 62	24.92	3275.725	22126.934	3275.725	74.021	bb			34.5321	86.3	-13.7	1180.0

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/10/10
Time of Injection	1030
Standard Number	WXX100208-08CRI
Data File	EXP0208090a

HMX	108.3
RDX	126.1
135-TNB	97.6
13-DNB	112.3
Tetryl	88.5
Nitrobenzene	105.5
4A-26-DNT	92.8
2A-46-DNT	98.1
246-TNT	101.4
34-DNT(surr)	108.2
26-DNT	100.3
24-DNT	91.0
2-NT	89.7
4-NT	99.4
3-NT	105.2
PETN	86.3
Total	1610.7
Average	100.7

MAP 2/11/10

Hmcoz 1/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208100a **Analysis Date:** 10-FEB-10 15:26

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Tetryl	600	638.511	106	
m-Dinitrobenzene	600	612.801	102	
m-Nitrotoluene	600	608.261	101	
o-Nitrotoluene	600	723.623	121	*
p-Nitrotoluene	600	679.247	113	
1,3,5-Trinitrobenzene	600	588.141	98	
1,3-Dinitrobenzene-d4	500	493.709	99	
2,4,6-Trinitrotoluene	600	720.831	120	*
2,4-Dinitrotoluene	600	626.987	104	
2,6-Dinitrotoluene	600	612.193	102	
2,6-Dinitrotoluene-d3	500	468.676	94	
2-Amino-4,6-dinitrotoluene	600	680.607	113	
3,4-Dinitrotoluene	300	353.233	118	
4-Amino-2,6-dinitrotoluene	600	676.006	113	
HMX	600	642.868	107	
Nitrobenzene	600	663.429	111	
PETN	600	712.886	119	
RDX	600	779.218	130	*

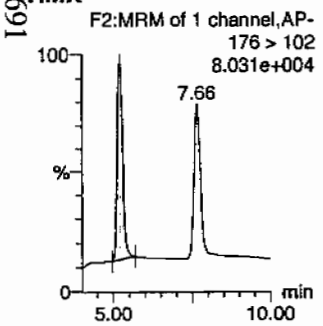
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

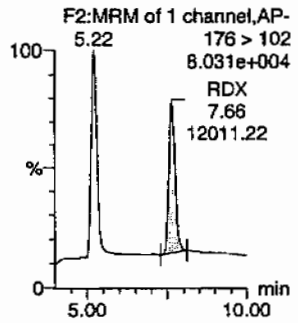
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208100a
Date: 10-Feb-2010
Time: 15:26:15
ID: WXX100208-07CCV
Vial: 1:1,B

Page 341 of 691

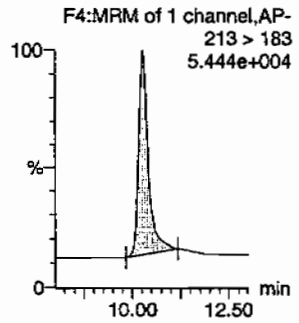
HMX



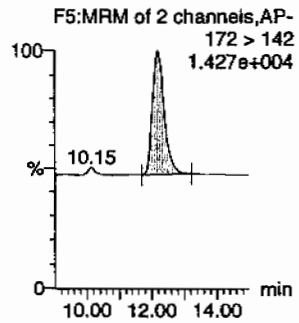
RDX



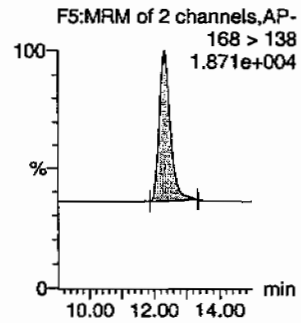
135-Trinitrobenzene



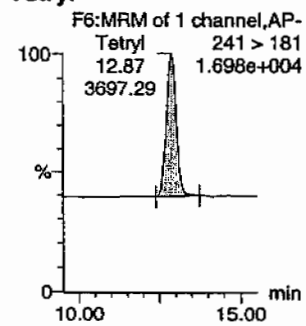
13-Dinitrobenzene-d4



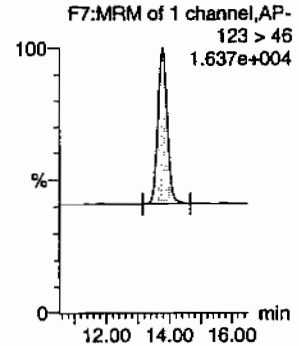
13-Dinitrobenzene



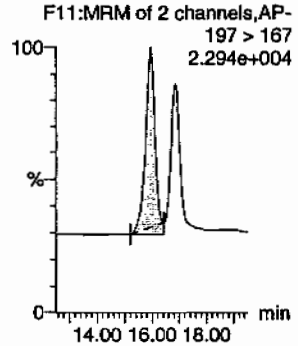
Tetryl



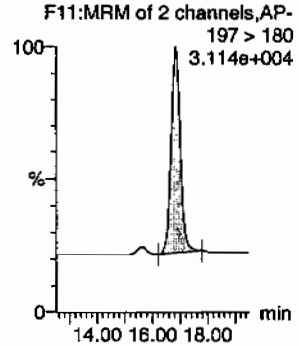
Nitrobenzene



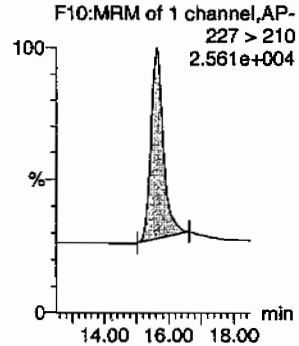
4-Amino-26-dinitrotoluene



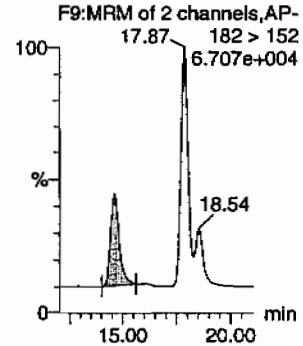
2-Amino-46-dinitrotoluene



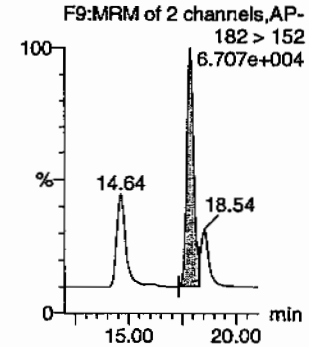
246-Trinitrotoluene



34-dinitrotoluene



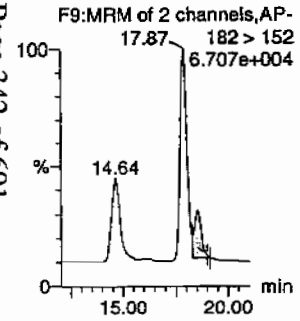
26-dinitrotoluene



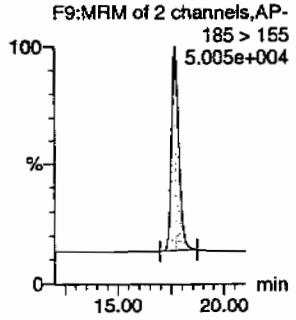
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

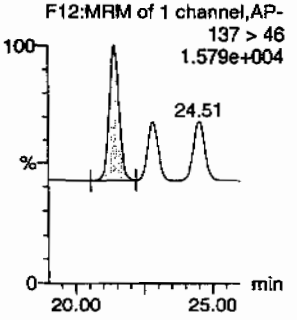
24-dinitrotoluene



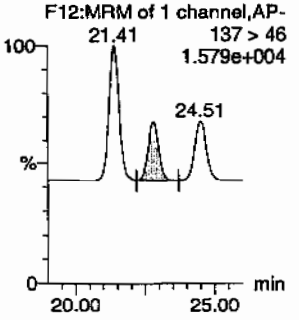
26-dinitrotoluene-d3



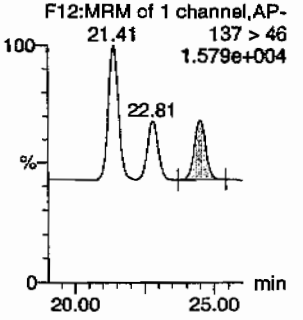
2-Nitrotoluene



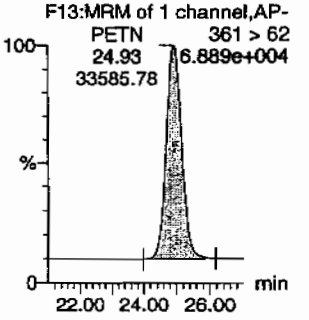
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.22	14172.824	3174.126	14172.824	2232.555	bb			642.8683	107.1	7.1	391.5
WXX100208-07CCV	RDX	176 > 102	7.66	12011.224	3174.126	12011.224	1892.052	bb			779.2177	129.9	29.9	292.2
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.28	13751.309	3174.126	13751.309	2166.157	bb			588.1412	98.0	-2.0	1601.3
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.21	3174.126		3174.126	3174.126	bb			493.7087	98.7	-1.3	212.7
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.34	4677.580	3174.126	4677.580	736.830	bb			612.8013	102.1	2.1	238.3
WXX100208-07CCV	Tetryl	241 > 181	12.87	3697.288	3174.126	3697.288	582.410	bb			638.5111	106.4	6.4	239.2
WXX100208-07CCV	Nitrobenzene	123 > 46	13.80	3402.021	3174.126	3402.021	535.899	bb			663.4293	110.6	10.6	356.5
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.94	6719.862	17303.232	6719.862	194.179	MM	11-Feb-10	09:29:13	676.0063	112.7	12.7	276.8
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.83	9327.860	17303.232	9327.860	269.541	bb			680.6069	113.4	13.4	465.7
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.63	8048.966	17303.232	8048.966	232.586	bb			720.8309	120.1	20.1	368.6
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.64	11001.619	17303.232	11001.619	317.906	bb			353.2325	117.7	17.7	332.1
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.87	22755.434	17303.232	22755.434	657.549	MM	11-Feb-10	09:57:14	612.1926	102.0	2.0	869.5
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.54	5295.381	17303.232	5295.381	153.017	MM	11-Feb-10	10:03:46	626.9869	104.5	4.5	195.9
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.70	17303.232		17303.232	17303.232	bb			468.6763	93.7	-6.3	1751.0
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.41	3882.721	17303.232	3882.721	112.196	bb			723.6227	120.6	20.6	173.9
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.81	1786.544	17303.232	1786.544	51.625	bb			679.2471	113.2	13.2	77.1
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.51	1961.233	17303.232	1961.233	56.672	bb			608.2610	101.4	1.4	77.5
WXX100208-07CCV	PETN	361 > 62	24.93	33585.777	17303.232	33585.777	970.506	bb			712.8864	118.8	18.8	9746.3

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/10/10
Time of Injection: 1526
Standard Number: WXX100208-07CCV
Data File: EXP0208100a

HMX	107.1
RDX	129.9
135-TNB	98.0
13-DNB	102.1
Tetryl	106.4
Nitrobenzene	110.6
4A-26-DNT	112.7
2A-46-DNT	113.4
246-TNT	120.1
34-DNT(surr)	117.7
26-DNT	102.0
24-DNT	104.5
2-NT	120.6
4-NT	113.2
3-NT	101.4
PETN	118.8
Total	1778.5
Average	111.2

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208102a **Analysis Date:** 10-FEB-10 16:25

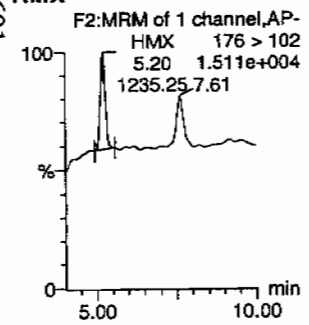
LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	40	39.187	98	
3,4-Dinitrotoluene	20	23.623	118	
4-Amino-2,6-dinitrotoluene	40	45.282	113	
HMX	40	50.098	125	
Nitrobenzene	40	41.549	104	
PETN	40	52.922	132	*
RDX	40	49.375	123	
Tetryl	40	43.062	108	
m-Dinitrobenzene	40	46.526	116	
m-Nitrotoluene	40	50.438	126	
o-Nitrotoluene	40	44.438	111	
p-Nitrotoluene	40	54.684	137	*
1,3,5-Trinitrobenzene	40	51.131	128	
1,3-Dinitrobenzene-d4	500	552.166	110	
2,4,6-Trinitrotoluene	40	40.399	101	
2,4-Dinitrotoluene	40	39.25	98	
2,6-Dinitrotoluene	40	40.673	102	
2,6-Dinitrotoluene-d3	500	556.942	111	

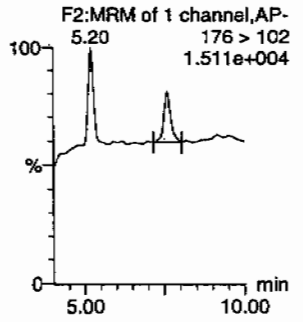
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208102a
Date: 10-Feb-2010
Time: 16:25:24
ID: WXX100208-08CRI
Vial: 1:1,C

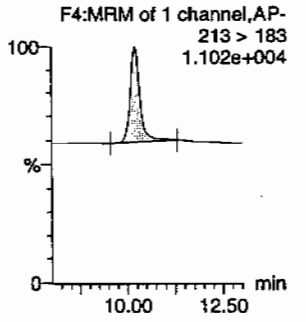
HMX



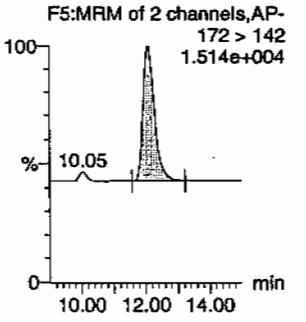
RDX



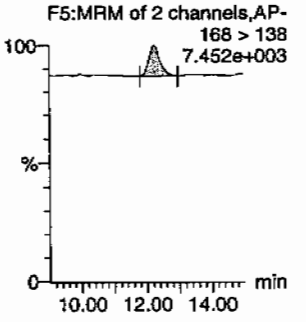
135-Trinitrobenzene



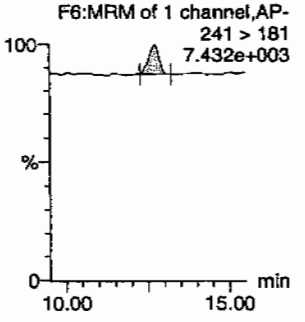
13-Dinitrobenzene-d4



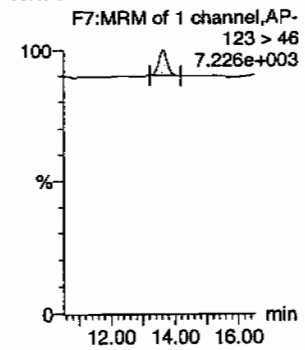
13-Dinitrobenzene



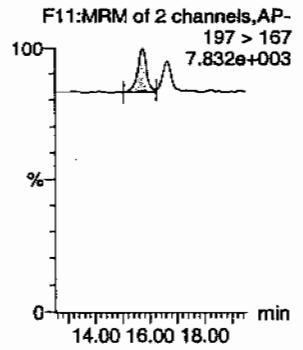
Tetryl



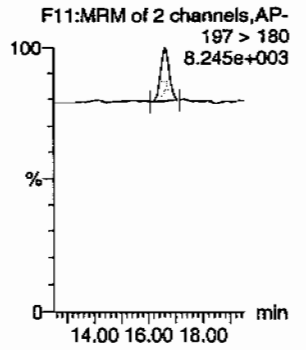
Nitrobenzene



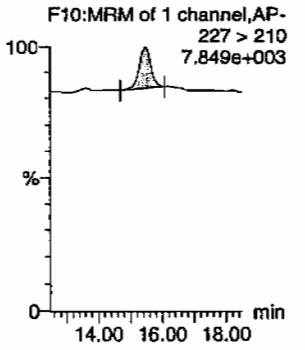
4-Amino-26-dinitrotoluene



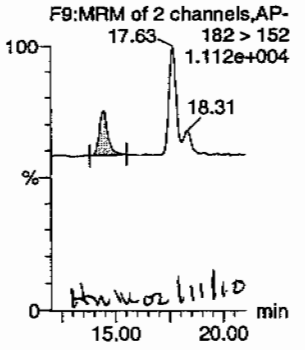
2-Amino-46-dinitrotoluene



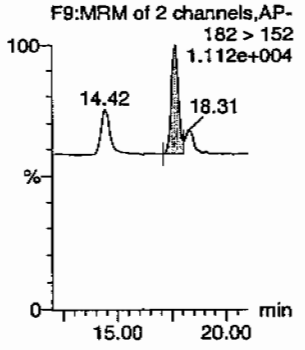
246-Trinitrotoluene



34-dinitrotoluene

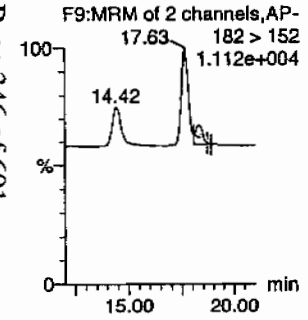


26-dinitrotoluene

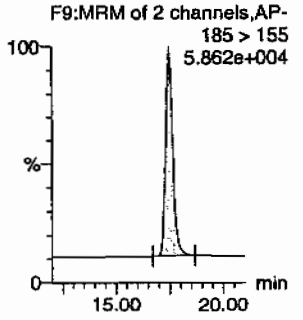


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

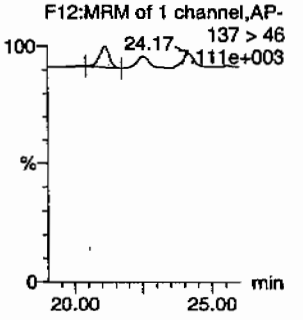
24-dinitrotoluene



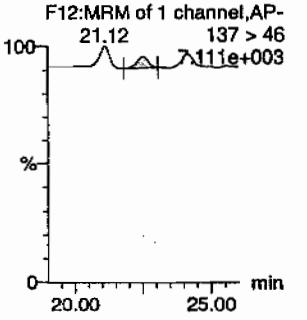
26-dinitrotoluene-d3



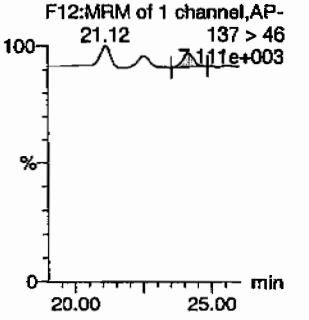
2-Nitrotoluene



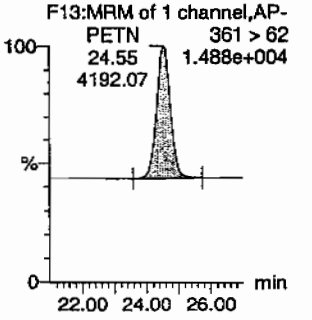
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%dDev	S/N
WXX100208-08CRI	HMX	176 > 102	5.20	1235.246	3549.957	1235.246	173.980	bb			50.0980	125.2	25.2	49.5
WXX100208-08CRI	RDX	176 > 102	7.61	851.198	3549.957	851.198	119.888	bb			49.3746	123.4	23.4	25.8
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.21	1337.041	3549.957	1337.041	188.318	bb			51.1309	127.8	27.8	114.5
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.10	3549.957		3549.957	3549.957	bb			552.1661	110.4	10.4	439.4
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.24	397.188	3549.957	397.188	55.943	bb			46.5260	116.3	16.3	33.2
WXX100208-08CRI	Tetryl	241 > 181	12.73	349.726	3549.957	349.726	49.258	bb			43.0620	107.7	7.7	8.0
WXX100208-08CRI	Nitrobenzene	123 > 46	13.62	238.288	3549.957	238.288	33.562	bb			41.5490	103.9	3.9	23.1
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.73	534.904	20561.957	534.904	13.007	MM	11-Feb-10	09:29:08	45.2824	113.2	13.2	36.3
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.62	638.216	20561.957	638.216	15.519	bb			39.1873	98.0	-2.0	70.0
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.48	536.058	20561.957	536.058	13.035	bb			40.3987	101.0	1.0	34.2
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.42	874.296	20561.957	874.296	21.260	bb			23.6225	118.1	18.1	53.8
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.63	1796.544	20561.957	1796.544	43.686	MM	11-Feb-10	09:57:21	40.6728	101.7	1.7	132.7
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.31	393.929	20561.957	393.929	9.579	MM	11-Feb-10	10:03:38	39.2502	98.1	-1.9	27.1
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.48	20561.957		20561.957	20561.957	bb			556.9424	111.4	11.4	1502.8
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.12	283.344	20561.957	283.344	6.890	bb			44.4378	111.1	11.1	16.6
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.52	170.915	20561.957	170.915	4.156	bb			54.6836	136.7	36.7	8.9
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.17	193.256	20561.957	193.256	4.699	bb			50.4379	126.1	26.1	10.4
WXX100208-08CRI	PETN	361 > 62	24.55	4192.072	20561.957	4192.072	101.938	bb			52.9217	132.3	32.3	95.8

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/10/10
Time of Injection	1625
Standard Number	WXX100208-08CRI
Data File	EXP0208102a

HMX	125.2
RDX	123.4
135-TNB	127.8
13-DNB	116.3
Tetryl	107.7
Nitrobenzene	103.9
4A-26-DNT	113.2
2A-46-DNT	98.0
246-TNT	101.0
34-DNT(surr)	118.1
26-DNT	101.7
24-DNT	98.1
2-NT	111.1
4-NT	136.7
3-NT	126.1
PETN	132.3
Total	1840.6
Average	115.0

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208113a **Analysis Date:** 10-FEB-10 21:49

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

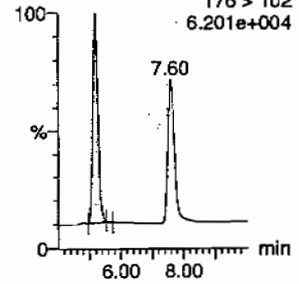
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	530.336	88	
1,3-Dinitrobenzene-d4	500	544.446	109	
2,4,6-Trinitrotoluene	600	662.584	110	
2,4-Dinitrotoluene	600	622.26	104	
2,6-Dinitrotoluene	600	605.94	101	
2,6-Dinitrotoluene-d3	500	509.3	102	
2-Amino-4,6-dinitrotoluene	600	677.413	113	
3,4-Dinitrotoluene	300	360.847	120	*
4-Amino-2,6-dinitrotoluene	600	606.515	101	
HMX	600	457.053	76	*
Nitrobenzene	600	682.529	114	
PETN	600	766.444	128	*
RDX	600	531.11	89	
Tetryl	600	667.741	111	
m-Dinitrobenzene	600	605.726	101	
m-Nitrotoluene	600	571.845	95	
o-Nitrotoluene	600	710.721	118	
p-Nitrotoluene	600	645.626	108	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

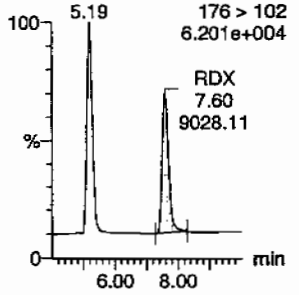
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208113a
Date: 10-Feb-2010
Time: 21:49:41
ID: WXX100208-07CCV
Vial: 1:1,B

MMP 2/11/10

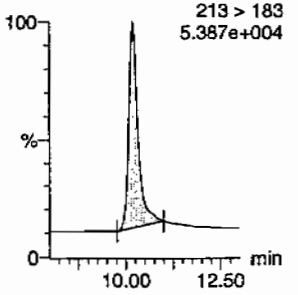
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.201e+004
7.60



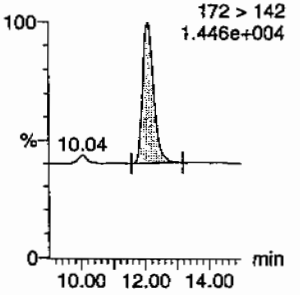
RDX
F2:MRM of 1 channel,AP-
5.19
176 > 102
6.201e+004
RDX
7.60
9028.11



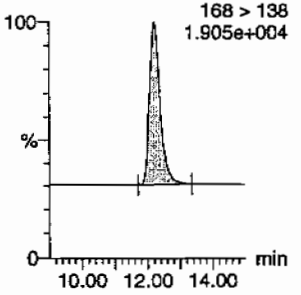
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.387e+004



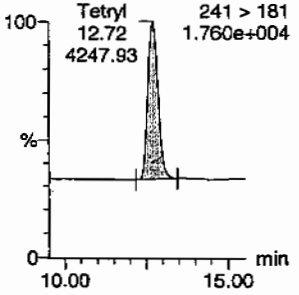
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.446e+004
10.04



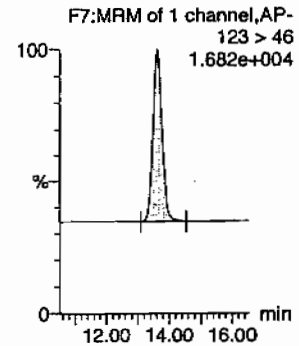
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
1.905e+004



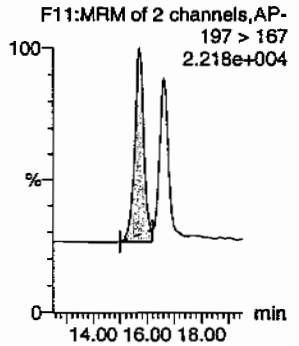
Tetryl
F6:MRM of 1 channel,AP-
Tetryl
12.72
4247.93
241 > 181
1.760e+004



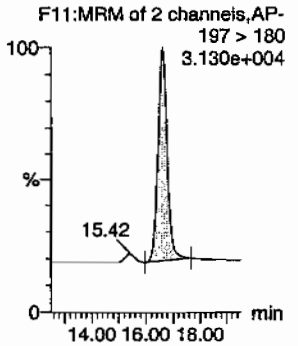
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
1.682e+004



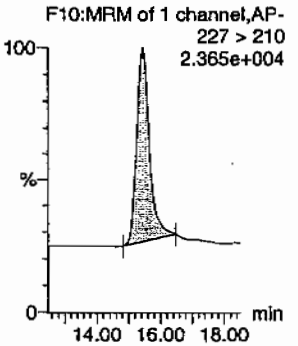
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
2.218e+004



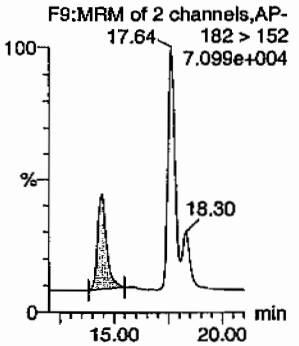
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
3.130e+004
15.42



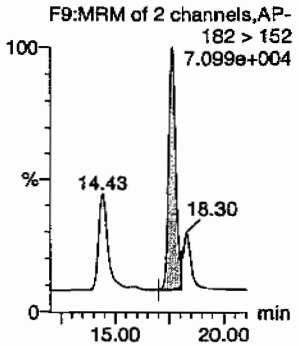
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
2.365e+004



34-dinitrotoluene
F9:MRM of 2 channels,AP-
17.64
182 > 152
7.099e+004
18.30



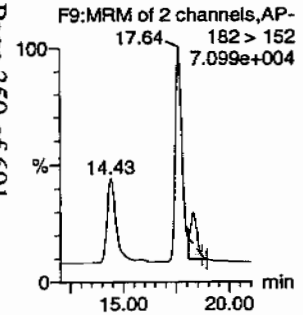
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.099e+004
14.43
18.30



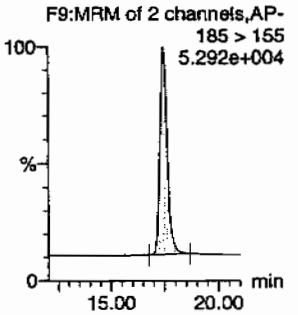
HMM 2/11/10

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

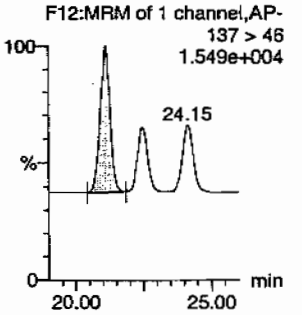
24-dinitrotoluene



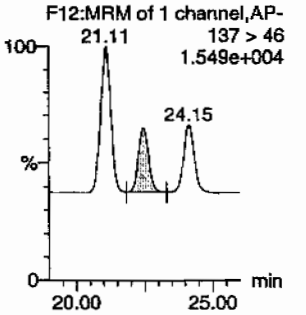
26-dinitrotoluene-d3



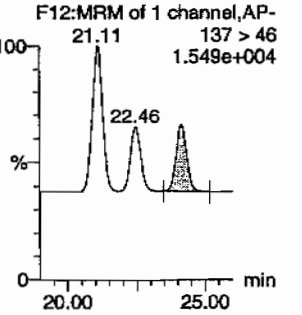
2-Nitrotoluene



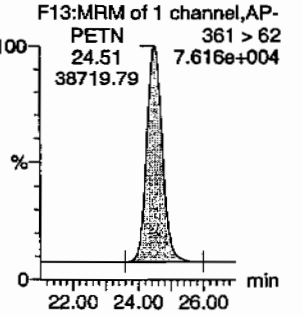
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.19	11111.813	3500.323	11111.813	1587.255	MM	11-Feb-10	09:22:41	457.0530	76.2	-23.8	909.8
WXX100208-07CCV	RDX	176 > 102	7.60	9028.113	3500.323	9028.113	1289.611	bb			531.1101	88.5	-11.5	624.4
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.19	13674.052	3500.323	13674.052	1953.256	bb			530.3356	88.4	-11.6	1522.7
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3500.323		3500.323	3500.323	bb			544.4459	108.9	8.9	256.5
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.20	5098.727	3500.323	5098.727	728.322	bb			605.7261	101.0	1.0	348.3
WXX100208-07CCV	Tetryl	241 > 181	12.72	4247.931	3500.323	4247.931	606.791	bb			667.7411	111.3	11.3	340.8
WXX100208-07CCV	Nitrobenzene	123 > 46	13.63	3859.643	3500.323	3859.643	551.327	bb			682.5286	113.8	13.8	424.7
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.71	6551.677	18803.047	6551.677	174.218	MM	11-Feb-10	09:28:18	606.5155	101.1	1.1	227.0
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.63	10088.809	18803.047	10088.809	268.276	bb			677.4125	112.9	12.9	1285.0
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.45	8039.858	18803.047	8039.858	213.791	bb			662.5836	110.4	10.4	1020.2
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.43	12212.950	18803.047	12212.950	324.760	bb			360.8475	120.3	20.3	403.2
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.64	24475.283	18803.047	24475.283	650.833	MM	11-Feb-10	09:58:14	605.9401	101.0	1.0	1031.4
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.30	5710.992	18803.047	5710.992	151.863	MM	11-Feb-10	10:02:38	622.2599	103.7	3.7	227.7
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.47	18803.047		18803.047	18803.047	bb			509.3004	101.9	1.9	2065.5
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.11	4144.045	18803.047	4144.045	110.196	bb			710.7215	118.5	18.5	1154.1
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.46	1845.305	18803.047	1845.305	49.069	bb			645.6263	107.6	7.6	501.6
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.15	2003.635	18803.047	2003.635	53.280	bb			571.8451	95.3	-4.7	521.6
WXX100208-07CCV	PETN	361 > 62	24.51	38719.785	18803.047	38719.785	1029.615	bb			766.4443	127.7	27.7	6959.9

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/10/10
Time of Injection: 2149
Standard Number: WXX100208-07CCV
Data File: EXP0208113a

HMX	76.2
RDX	88.5
135-TNB	88.4
13-DNB	101.0
Tetryl	111.3
Nitrobenzene	113.8
4A-26-DNT	101.1
2A-46-DNT	112.9
246-TNT	110.4
34-DNT(surr)	120.3
26-DNT	101.0
24-DNT	103.7
2-NT	118.5
4-NT	107.6
3-NT	95.3
PETN	127.7
Total	1677.7
Average	104.9

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208115a

Analysis Date: 10-FEB-10 22:48

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	40	44.813	112	
1,3,5-Trinitrobenzene	40	53.258	133	*
1,3-Dinitrobenzene-d4	500	607.853	122	
2,4,6-Trinitrotoluene	40	34.757	87	
2,4-Dinitrotoluene	40	40.974	102	
2,6-Dinitrotoluene	40	39.436	99	
2,6-Dinitrotoluene-d3	500	647.378	129	
2-Amino-4,6-dinitrotoluene	40	50.465	126	
3,4-Dinitrotoluene	20	21.441	107	
4-Amino-2,6-dinitrotoluene	40	44.161	110	
HMX	40	41.129	103	
Nitrobenzene	40	45.384	113	
PETN	40	35.443	89	
RDX	40	28.151	70	
Tetryl	40	44.571	111	
m-Dinitrobenzene	40	32.285	81	
m-Nitrotoluene	40	41.138	103	
o-Nitrotoluene	40	42.41	106	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208115a
Date: 10-Feb-2010
Time: 22:48:43
ID: WXX100208-08CRI
Vial: 1:1,C

MM 2/11/10

HMX
F2:MRM of 1 channel,AP-
HMX 176 > 102
5.19 1.118e+004
1116.38
7.61
100 % 0 min
5.00 10.00

RDX
F2:MRM of 1 channel,AP-
5.19 176 > 102
1.118e+004
100 % 0 min
5.00 10.00

135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
1.099e+004
100 % 0 min
10.00 12.50

13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.555e+004
10.07
100 % 0 min
10.00 12.00 14.00

13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.688e+003
100 % 0 min
10.00 12.00 14.00

Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.843e+003
100 % 0 min
10.00 15.00

Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.519e+003
100 % 0 min
12.00 14.00 16.00

4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
7.294e+003
100 % 0 min
14.00 16.00 18.00

2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
8.240e+003
100 % 0 min
14.00 16.00 18.00

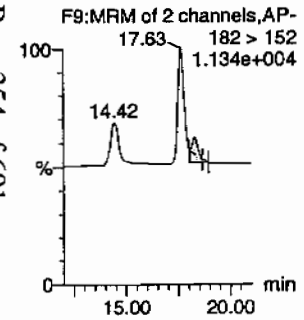
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
7.051e+003
100 % 0 min
14.00 16.00 18.00

34-dinitrotoluene
F9:MRM of 2 channels,AP-
17.63 182 > 152
1.134e+004
18.27
100 % 0 min
15.00 20.00

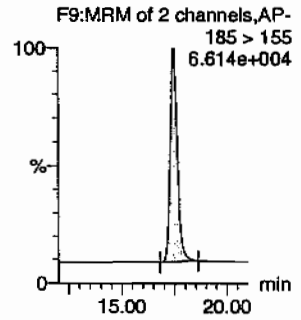
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
1.134e+004
14.42
18.27
100 % 0 min
15.00 20.00

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

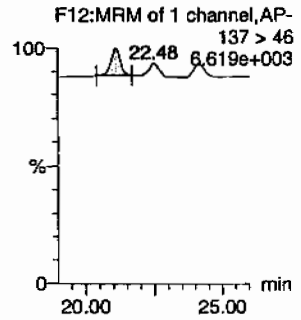
24-dinitrotoluene



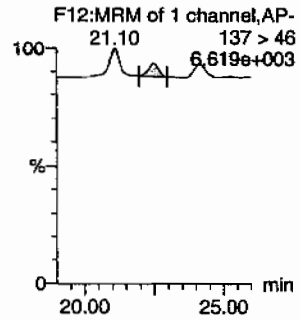
26-dinitrotoluene-d3



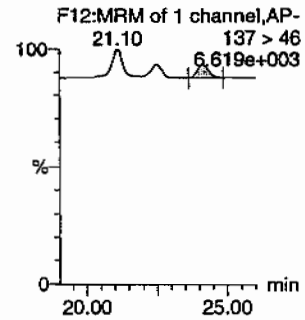
2-Nitrotoluene



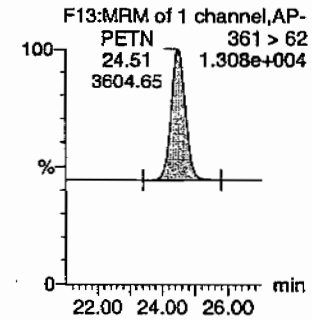
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.19	1116.380	3907.975	1116.380	142.834	bb			41.1292	102.8	2.8	133.9
WXX100208-08CRI	RDX	176 > 102	7.61	534.263	3907.975	534.263	68.355	MM	11-Feb-10	09:23:36	28.1513	70.4	-29.6	58.7
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.20	1533.123	3907.975	1533.123	196.153	bb			53.2583	133.1	33.1	211.6
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	3907.975		3907.975	3907.975	bb			607.8528	121.6	21.6	220.2
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.21	303.410	3907.975	303.410	38.819	bb			32.2850	80.7	-19.3	49.5
WXX100208-08CRI	Tetryl	241 > 181	12.73	396.242	3907.975	396.242	50.697	bd			44.5708	111.4	11.4	33.5
WXX100208-08CRI	Nitrobenzene	123 > 46	13.62	286.530	3907.975	286.530	36.660	bb			45.3837	113.5	13.5	28.8
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.70	606.369	23900.779	606.369	12.685	MM	11-Feb-10	09:28:06	44.1614	110.4	10.4	46.6
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.62	955.349	23900.779	955.349	19.986	bb			50.4651	126.2	26.2	164.9
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.44	536.077	23900.779	536.077	11.215	bb			34.7565	86.9	-13.1	34.5
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.42	922.433	23900.779	922.433	19.297	bb			21.4414	107.2	7.2	73.6
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.63	2024.771	23900.779	2024.771	42.358	MM	11-Feb-10	09:58:21	39.4361	98.6	-1.4	202.5
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.27	478.002	23900.779	478.002	10.000	MM	11-Feb-10	10:02:28	40.9738	102.4	2.4	43.1
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.46	23900.779		23900.779	23900.779	bb			647.3779	129.5	29.5	4032.5
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.10	314.324	23900.779	314.324	6.576	bb			42.4100	106.0	6.0	34.3
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.48	162.806	23900.779	162.806	3.406	bb			44.8126	112.0	12.0	17.1
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.15	183.219	23900.779	183.219	3.833	bb			41.1383	102.8	2.8	16.7
WXX100208-08CRI	PETN	361 > 62	24.51	3604.646	23900.779	3604.646	75.409	bb			35.4428	88.6	-11.4	670.7

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/10/10
Time of Injection	2248
Standard Number	WXX100208-08CRI
Data File	EXP0208115a

HMX		102.8
RDX		70.4
135-TNB		133.1
13-DNB		80.7
Tetryl		111.4
Nitrobenzene		113.5
4A-26-DNT		110.4
2A-46-DNT		126.2
246-TNT		86.9
34-DNT(surr)		107.2
26-DNT		98.6
24-DNT		102.4
2-NT		106.0
4-NT		112.0
3-NT		102.8
PETN		88.6
	Total	1653.0
	Average	103.3

MAT 2/11/10

Hmm 02/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208120a

Analysis Date: 11-FEB-10 01:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	584.444	117	
2-Amino-4,6-dinitrotoluene	600	681.8	114	
3,4-Dinitrotoluene	300	325.104	108	
4-Amino-2,6-dinitrotoluene	600	602.251	100	
HMX	600	566.092	94	
Nitrobenzene	600	695.908	116	
PETN	600	664	111	
RDX	600	639.449	107	
Tetryl	600	673.554	112	
m-Dinitrobenzene	600	598.675	100	
m-Nitrotoluene	600	443.701	74	*
o-Nitrotoluene	600	445.632	74	*
p-Nitrotoluene	600	466.419	78	*
1,3,5-Trinitrobenzene	600	597.957	100	
1,3-Dinitrobenzene-d4	500	521.607	104	
2,4,6-Trinitrotoluene	600	672.377	112	
2,4-Dinitrotoluene	600	600.43	100	
2,6-Dinitrotoluene	600	601.181	100	

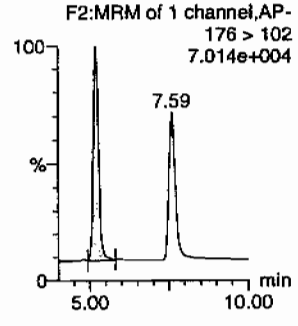
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

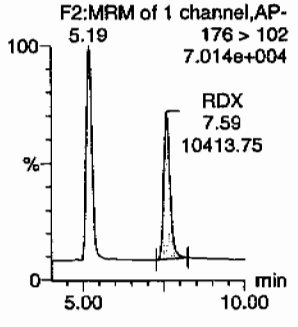
Page 357 of 691

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208120a
Date: 11-Feb-2010
Time: 01:16:10
ID: WXX100208-07CCV
Vial: 1:1,B

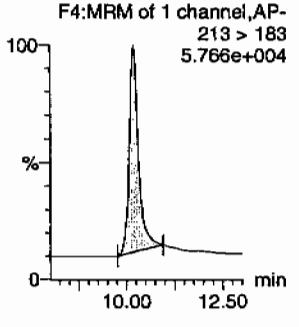
HMX



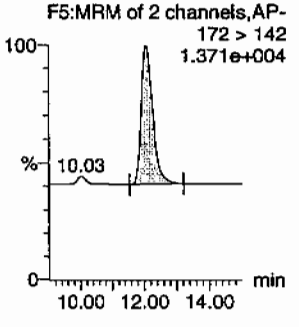
RDX



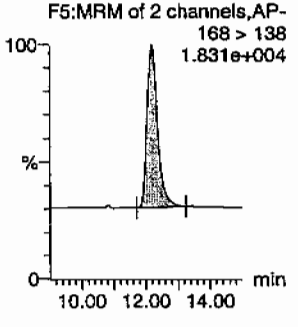
135-Trinitrobenzene



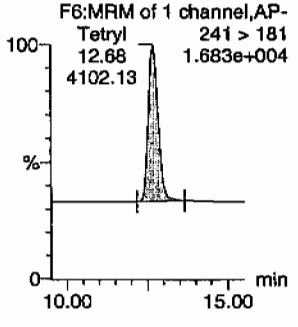
13-Dinitrobenzene-d4



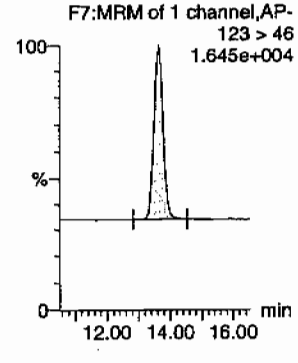
13-Dinitrobenzene



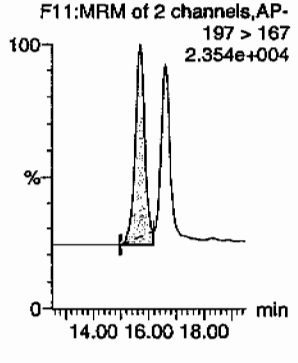
Tetryl



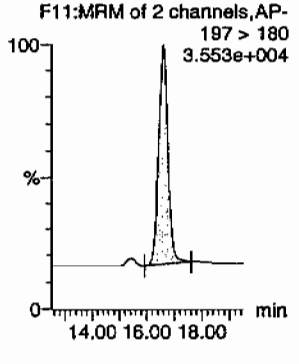
Nitrobenzene



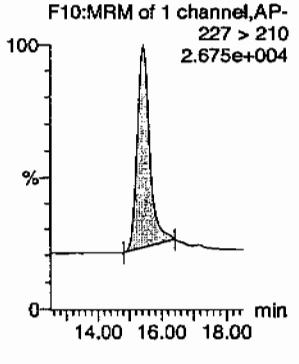
4-Amino-26-dinitrotoluene



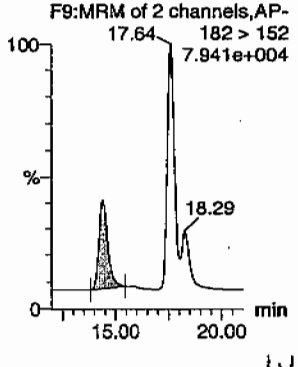
2-Amino-46-dinitrotoluene



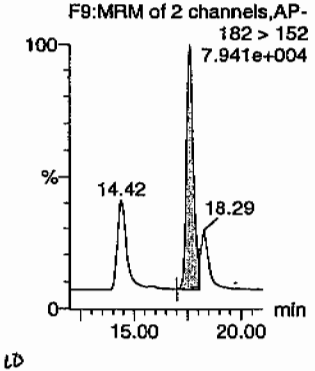
246-Trinitrotoluene



34-dinitrotoluene

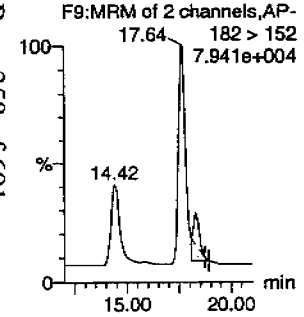


26-dinitrotoluene

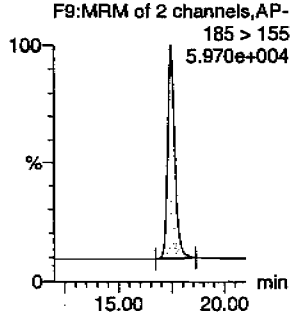


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

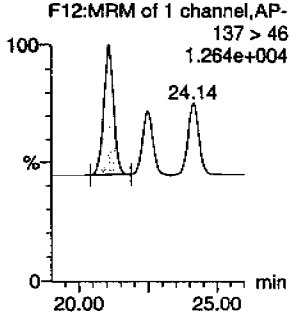
24-dinitrotoluene



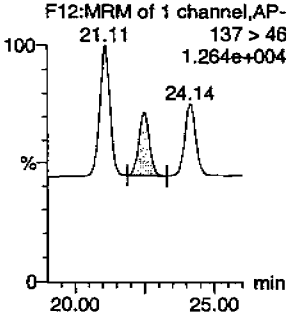
26-dinitrotoluene-d3



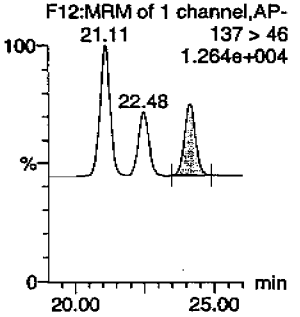
2-Nitrotoluene



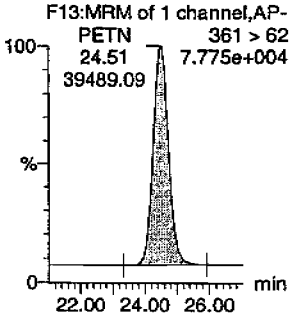
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.19	13185.422	3353.490	13185.422	1965.925	dd			566.0917	94.3	-5.7	1010.4
WXX100208-07CCV	RDX	176 > 102	7.59	10413.745	3353.490	10413.745	1552.673	bb			639.4486	106.6	6.6	694.8
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.20	14770.832	3353.490	14770.832	2202.307	bb			597.9566	99.7	-0.3	1118.6
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3353.490		3353.490	3353.490	bb			521.6073	104.3	4.3	344.2
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.21	4827.981	3353.490	4827.981	719.844	bb			598.6751	99.8	-0.2	372.3
WXX100208-07CCV	Tetryl	241 > 181	12.68	4102.125	3353.490	4102.125	611.620	bb			673.5545	112.3	12.3	228.0
WXX100208-07CCV	Nitrobenzene	123 > 46	13.62	3770.225	3353.490	3770.225	562.135	bb			695.9084	116.0	16.0	468.0
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.70	7465.469	21577.291	7465.469	172.994	MM	11-Feb-10	09:27:53	602.2514	100.4	0.4	1334.8
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.62	11652.317	21577.291	11652.317	270.013	bb			681.7999	113.6	13.6	680.2
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.44	9362.438	21577.291	9362.438	216.951	bb			672.3766	112.1	12.1	499.2
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.42	12626.653	21577.291	12626.653	292.591	bb			325.1043	108.4	8.4	639.4
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.64	27865.813	21577.291	27865.813	645.721	MM	11-Feb-10	09:58:30	601.1806	100.2	0.2	1762.8
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.29	6323.689	21577.291	6323.689	146.536	MM	11-Feb-10	10:02:17	600.4296	100.1	0.1	383.4
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	21577.291		21577.291	21577.291	bb			584.4438	116.9	16.9	1252.0
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.11	2981.742	21577.291	2981.742	69.094	bb			445.6320	74.3	-25.7	863.7
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.48	1529.789	21577.291	1529.789	35.449	bb			466.4187	77.7	-22.3	428.9
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.14	1784.019	21577.291	1784.019	41.340	bb			443.7012	74.0	-26.0	480.8
WXX100208-07CCV	PETN	361 > 62	24.51	39489.086	21577.291	39489.086	915.061	bb			663.9997	110.7	10.7	8570.5

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/11/10
Time of Injection: 0116
Standard Number: WXX100208-07CCV
Data File: EXP0208120a

HMX		94.3
RDX		106.6
135-TNB		99.7
13-DNB		99.8
Tetryl		112.3
Nitrobenzene		116.0
4A-26-DNT		100.4
2A-46-DNT		113.6
246-TNT		112.1
34-DNT(surr)		108.4
26-DNT		100.2
24-DNT		100.1
2-NT		74.3
4-NT		77.7
3-NT		74.0
PETN		110.7
Total		1600.2
Average		100.0

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208122a **Analysis Date:** 11-FEB-10 02:15

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

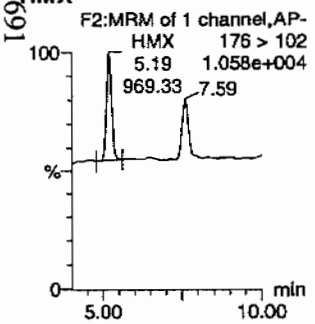
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	54.242	136	*
1,3-Dinitrobenzene-d4	500	481.604	96	
2,4,6-Trinitrotoluene	40	39.518	99	
2,4-Dinitrotoluene	40	34.151	85	
2,6-Dinitrotoluene	40	39.253	98	
2,6-Dinitrotoluene-d3	500	559.761	112	
2-Amino-4,6-dinitrotoluene	40	40.238	101	
3,4-Dinitrotoluene	20	23.425	117	
4-Amino-2,6-dinitrotoluene	40	39.856	100	
HMX	40	45.073	113	
Nitrobenzene	40	45.235	113	
PETN	40	55.232	138	*
RDX	40	38.842	97	
Tetryl	40	46.548	116	
m-Dinitrobenzene	40	42.593	106	
m-Nitrotoluene	40	29.791	74	
o-Nitrotoluene	40	36.689	92	
p-Nitrotoluene	40	37.057	93	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

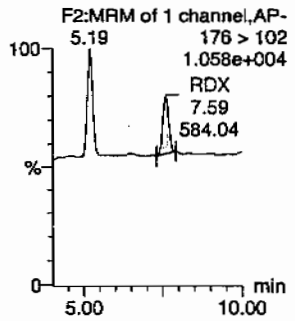
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208122a
Date: 11-Feb-2010
Time: 02:15:12
ID: WXX100208-08CRI
Vial: 1:1,C

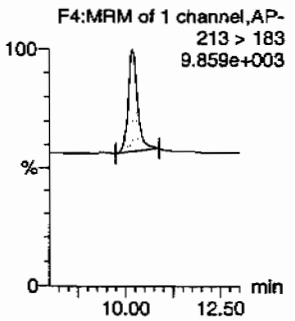
HMX



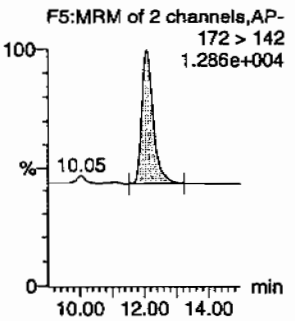
RDX



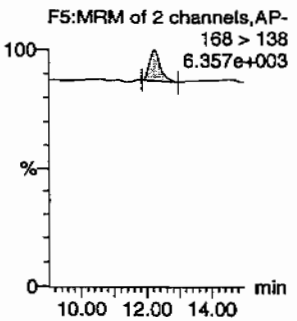
135-Trinitrobenzene



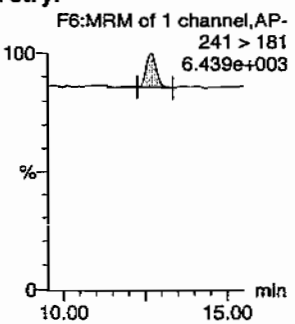
13-Dinitrobenzene-d4



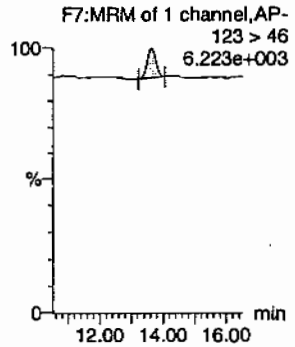
13-Dinitrobenzene



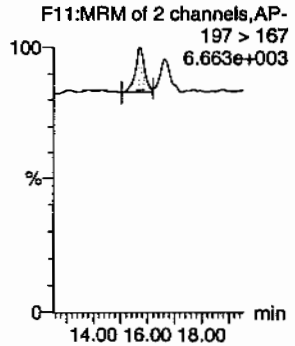
Tetryl



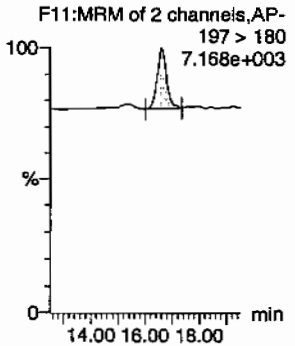
Nitrobenzene



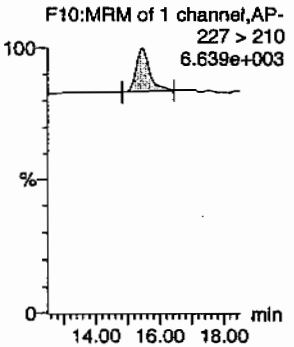
4-Amino-26-dinitrotoluene



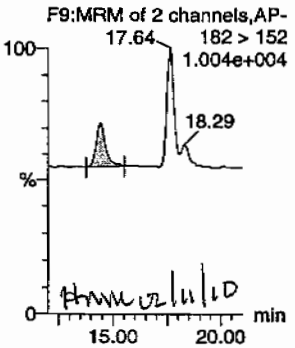
2-Amino-46-dinitrotoluene



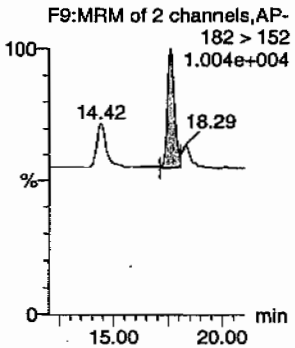
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

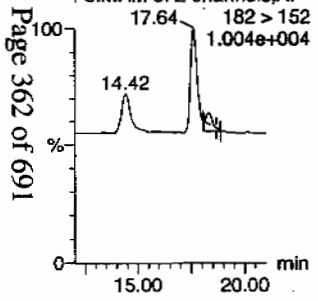


GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

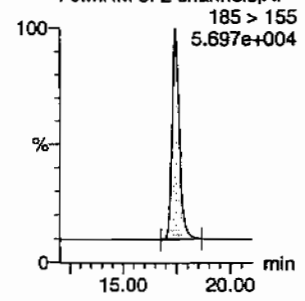
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

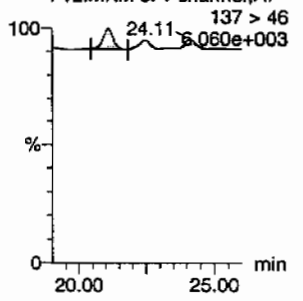
24-dinitrotoluene



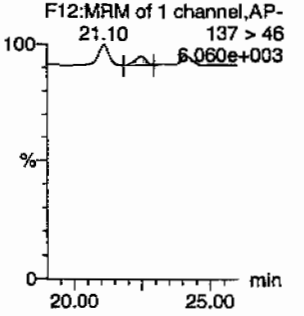
26-dinitrotoluene-d3



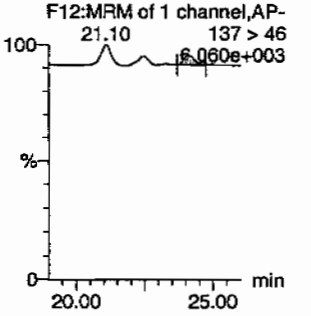
2-Nitrotoluene



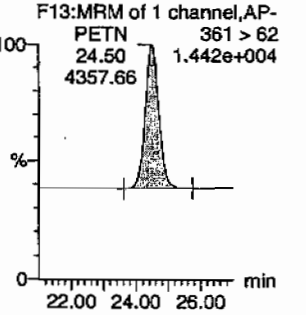
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.19	969.325	3096.302	969.325	156.529	bb			45.0729	112.7	12.7	123.6
WXX100208-08CRI	RDX	176 > 102	7.59	584.042	3096.302	584.042	94.313	bb			38.8415	97.1	-2.9	66.7
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.18	1237.129	3096.302	1237.129	199.775	bb			54.2417	135.6	35.6	118.4
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	3096.302		3096.302	3096.302	bb			481.6038	96.3	-3.7	264.7
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.24	317.146	3096.302	317.146	51.214	bb			42.5930	106.5	6.5	61.6
WXX100208-08CRI	Tetryl	241 > 181	12.68	325.616	3096.302	325.616	52.581	bb			46.5480	116.4	16.4	51.6
WXX100208-08CRI	Nitrobenzene	123 > 46	13.62	226.274	3096.302	226.274	36.539	bb			45.2349	113.1	13.1	18.5
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.70	473.189	20666.025	473.189	11.448	MM	11-Feb-10	09:27:41	39.8561	99.6	-0.4	30.6
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.60	658.648	20666.025	658.648	15.936	bb			40.2381	100.6	0.6	63.8
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.44	527.022	20666.025	527.022	12.751	bb			39.5178	98.8	-1.2	64.8
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.42	871.385	20666.025	871.385	21.083	bb			23.4253	117.1	17.1	39.2
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.64	1742.586	20666.025	1742.586	42.161	MM	11-Feb-10	09:58:36	39.2525	98.1	-1.9	102.8
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.29	344.484	20666.025	344.484	8.335	MM	11-Feb-10	10:02:04	34.1508	85.4	-14.6	18.6
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.46	20666.025		20666.025	20666.025	bb			559.7612	112.0	12.0	1670.7
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.10	235.119	20666.025	235.119	5.689	bb			36.6888	91.7	-8.3	23.5
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.46	116.410	20666.025	116.410	2.816	bb			37.0574	92.6	-7.4	10.4
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.11	114.724	20666.025	114.724	2.776	bb			29.7910	74.5	-25.5	10.6
WXX100208-08CRI	PETN	361 > 62	24.50	4357.663	20666.025	4357.663	105.431	bb			55.2320	138.1	38.1	1085.8

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/11/10
Time of Injection	0215
Standard Number	WXX100208-08CRI
Data File	EXP0208122a

HMX	112.7
RDX	97.1
135-TNB	135.6
13-DNB	106.5
Tetryl	116.4
Nitrobenzene	113.1
4A-26-DNT	99.6
2A-46-DNT	100.6
246-TNT	98.8
34-DNT(surr)	117.1
26-DNT	98.1
24-DNT	85.4
2-NT	91.7
4-NT	92.6
3-NT	74.5
PETN	138.1
Total	1677.9
Average	104.9

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208133a

Analysis Date: 11-FEB-10 07:39

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	600	582.434	97	
o-Nitrotoluene	600	639.153	107	
p-Nitrotoluene	600	652.124	109	
1,3,5-Trinitrobenzene	600	561.952	94	
1,3-Dinitrobenzene-d4	500	523.69	105	
2,4,6-Trinitrotoluene	600	625.562	104	
2,4-Dinitrotoluene	600	646.957	108	
2,6-Dinitrotoluene	600	613.147	102	
2,6-Dinitrotoluene-d3	500	492.682	99	
2-Amino-4,6-dinitrotoluene	600	615.832	103	
3,4-Dinitrotoluene	300	315.478	105	
4-Amino-2,6-dinitrotoluene	600	605.241	101	
HMX	600	599.884	100	
Nitrobenzene	600	602.444	100	
PETN	600	821.24	137	*
RDX	600	656.741	109	
Tetryl	600	623.813	104	
m-Dinitrobenzene	600	590.781	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

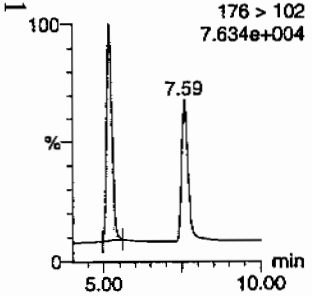
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208133a
Date: 11-Feb-2010
Time: 07:39:41
ID: WXX100208-07CCV
Vial: 1:1,B

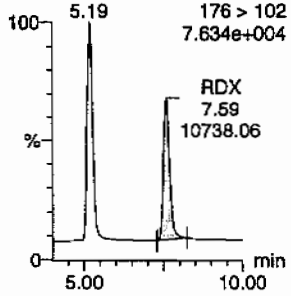
Page 365 of 691

HMX 2/11/10

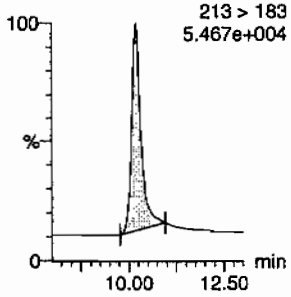
HMX
F2:MRM of 1 channel,AP- 176 > 102 7.634e+004
7.59



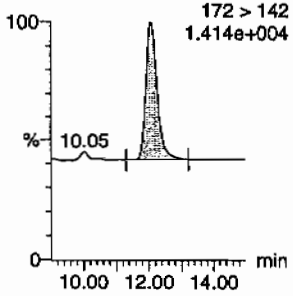
RDX
F2:MRM of 1 channel,AP- 176 > 102 7.634e+004
5.19
RDX 7.59 10738.06



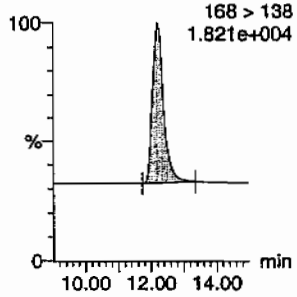
135-Trinitrobenzene
F4:MRM of 1 channel,AP- 213 > 183 5.467e+004



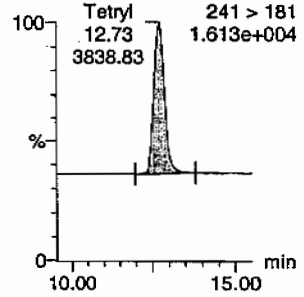
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP- 172 > 142 1.414e+004
10.05



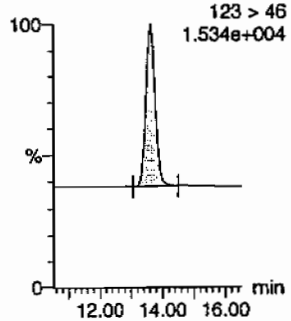
13-Dinitrobenzene
F5:MRM of 2 channels,AP- 168 > 138 1.821e+004



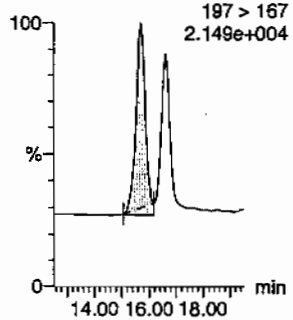
Tetryl
F6:MRM of 1 channel,AP- 241 > 181 1.613e+004
Tetryl 12.73 3838.83



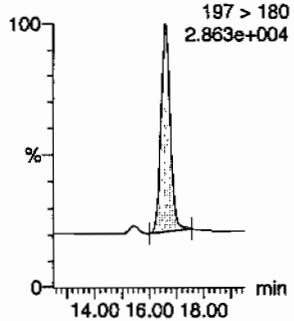
Nitrobenzene
F7:MRM of 1 channel,AP- 123 > 46 1.534e+004



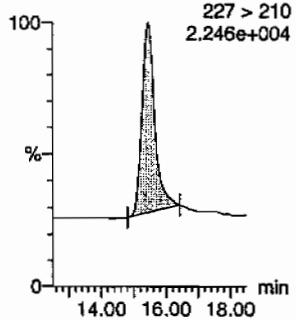
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 167 2.149e+004



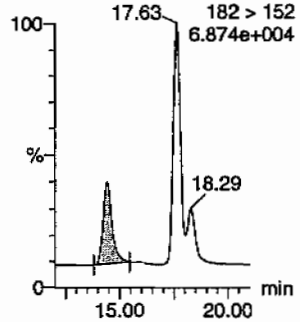
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 180 2.863e+004



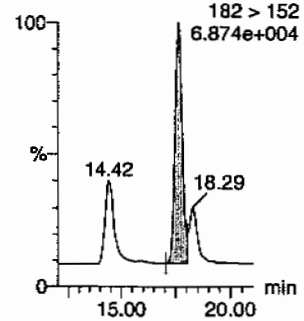
246-Trinitrotoluene
F10:MRM of 1 channel,AP- 227 > 210 2.246e+004



34-dinitrotoluene
F9:MRM of 2 channels,AP- 182 > 152 6.874e+004
17.63
18.29



26-dinitrotoluene
F9:MRM of 2 channels,AP- 182 > 152 6.874e+004
14.42
18.29



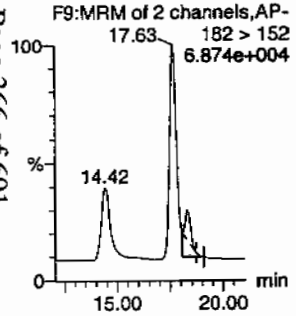
HMM 02/11/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

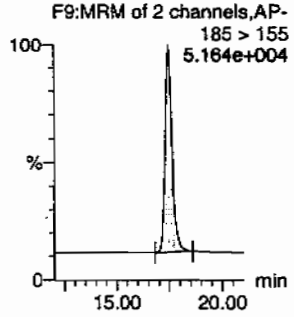
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

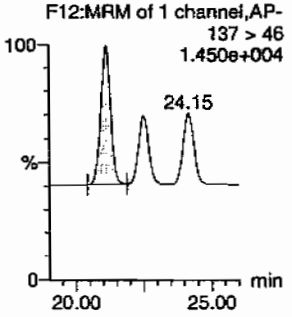
24-dinitrotoluene



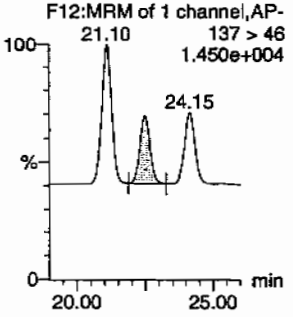
26-dinitrotoluene-d3



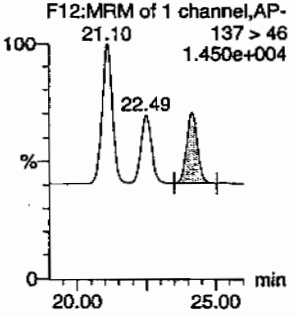
2-Nitrotoluene



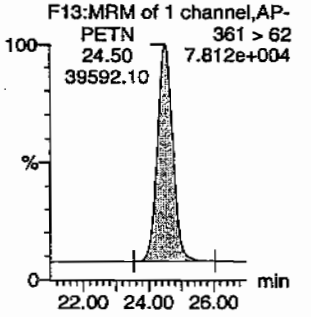
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100208-07CCV	HMX	176 > 102	5.19	14028.293	3366.877	14028.293	2083.280	bb			599.8841	100.0	-0.0	1870.4
WXX100208-07CCV	RDX	176 > 102	7.59	10738.060	3366.877	10738.060	1594.662	bb			656.7412	109.5	9.5	1227.8
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.20	13936.843	3366.877	13936.843	2069.699	bb			561.9515	93.7	-6.3	1128.0
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3366.877		3366.877	3366.877	bb			523.6895	104.7	4.7	476.6
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.21	4783.337	3366.877	4783.337	710.352	bb			590.7808	98.5	-1.5	349.3
WXX100208-07CCV	Tetryl	241 > 181	12.73	3838.826	3366.877	3838.826	570.087	bb			623.8127	104.0	4.0	399.7
WXX100208-07CCV	Nitrobenzene	123 > 46	13.62	3276.893	3366.877	3276.893	486.637	bb			602.4442	100.4	0.4	323.7
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.70	6324.586	18189.516	6324.586	173.853	MM	11-Feb-10	09:26:54	605.2414	100.9	0.9	419.6
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.62	8872.409	18189.516	8872.409	243.888	bb			615.8316	102.6	2.6	508.9
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.44	7342.954	18189.516	7342.954	201.846	bb			625.5618	104.3	4.3	106.1
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.42	10329.003	18189.516	10329.003	283.927	bb			315.4776	105.2	5.2	286.0
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.63	23958.285	18189.516	23958.285	658.574	MM	11-Feb-10	09:59:27	613.1472	102.2	2.2	840.7
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.29	5743.919	18189.516	5743.919	157.891	MM	11-Feb-10	10:01:23	646.9574	107.8	7.8	189.5
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	18189.516		18189.516	18189.516	bb			492.6823	98.5	-1.5	3079.6
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.10	3605.144	18189.516	3605.144	99.100	bb			639.1528	106.5	6.5	358.7
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.49	1803.060	18189.516	1803.060	49.563	bb			652.1242	108.7	8.7	173.2
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.15	1974.147	18189.516	1974.147	54.266	bb			582.4335	97.1	-2.9	180.9
WXX100208-07CCV	PETN	361 > 62	24.50	39592.102	18189.516	39592.102	1088.322	bb			821.2402	136.9	36.9	10580.3

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/11/10
Time of Injection: 0739
Standard Number: WXX100208-07CCV
Data File: EXP0208133a

HMX	100.0
RDX	109.5
135-TNB	93.7
13-DNB	98.5
Tetryl	104.0
Nitrobenzene	100.4
4A-26-DNT	100.9
2A-46-DNT	102.6
246-TNT	104.3
34-DNT(surr)	105.2
26-DNT	102.2
24-DNT	107.8
2-NT	106.5
4-NT	108.7
3-NT	97.1
PETN	136.9
Total	1678.3
Average	104.9

HMM 2/11/10

Hmm 02/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208135a **Analysis Date:** 11-FEB-10 08:38

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
HMX	40	48.07	120	
Nitrobenzene	40	41.966	105	
PETN	40	55.176	138	*
RDX	40	47.02	118	
Tetryl	40	49.996	125	
m-Dinitrobenzene	40	42.077	105	
m-Nitrotoluene	40	34.831	87	
o-Nitrotoluene	40	41.028	103	
p-Nitrotoluene	40	39.414	99	
1,3,5-Trinitrobenzene	40	53.251	133	*
1,3-Dinitrobenzene-d4	500	496.238	99	
2,4,6-Trinitrotoluene	40	32.077	80	
2,4-Dinitrotoluene	40	41.206	103	
2,6-Dinitrotoluene	40	39.051	98	
2,6-Dinitrotoluene-d3	500	591.836	118	
2-Amino-4,6-dinitrotoluene	40	38.537	96	
3,4-Dinitrotoluene	20	20.304	102	
4-Amino-2,6-dinitrotoluene	40	41.968	105	

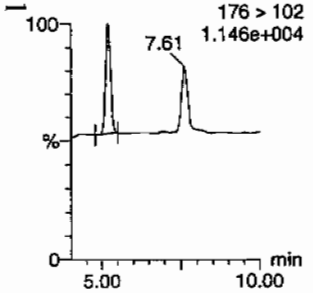
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

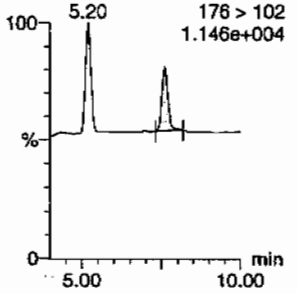
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208135a
Date: 11-Feb-2010
Time: 08:38:44
ID: WXX100208-08CRI
Vial: 1:1,C

Page 909 of 991

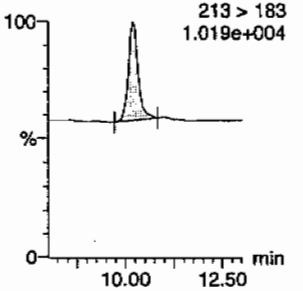
HMX



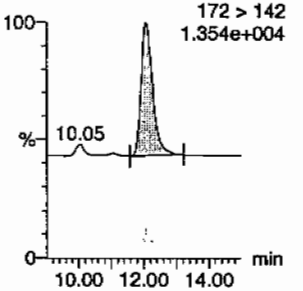
RDX



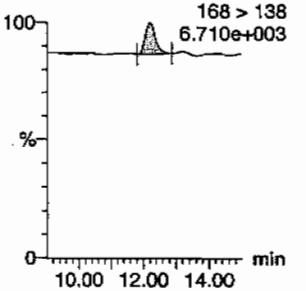
135-Trinitrobenzene



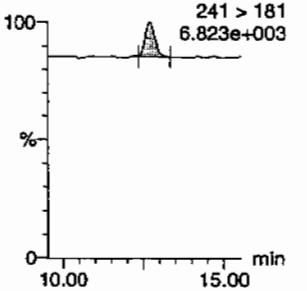
13-Dinitrobenzene-d4



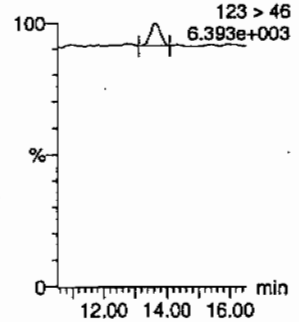
13-Dinitrobenzene



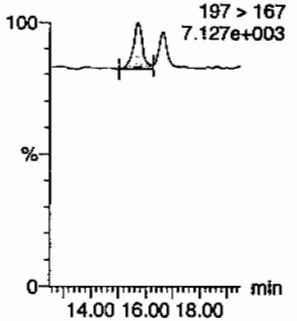
Tetryl



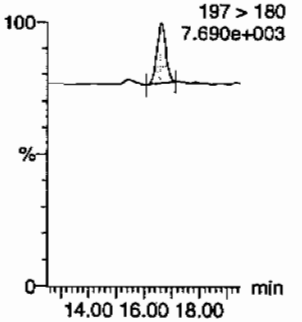
Nitrobenzene



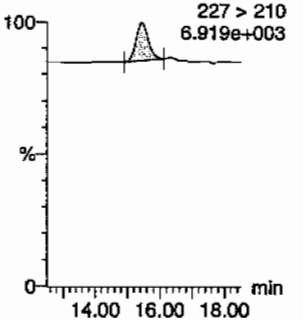
4-Amino-26-dinitrotoluene



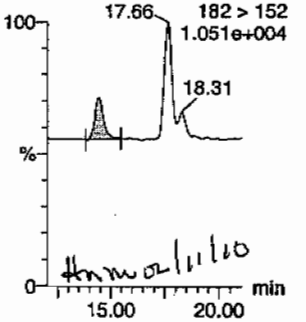
2-Amino-46-dinitrotoluene



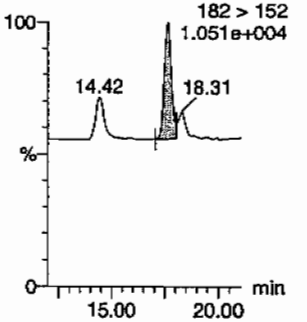
246-Trinitrotoluene



34-dinitrotoluene



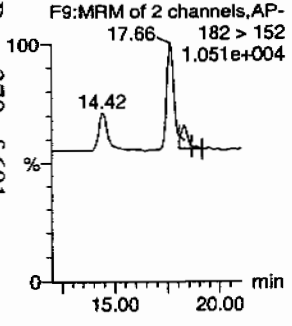
26-dinitrotoluene



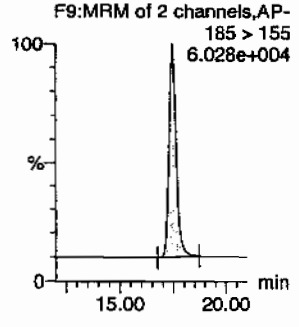
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

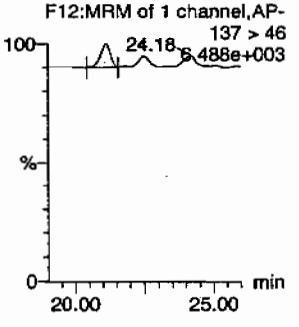
24-dinitrotoluene



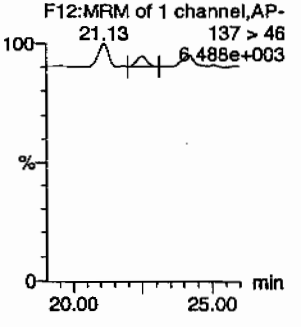
26-dinitrotoluene-d3



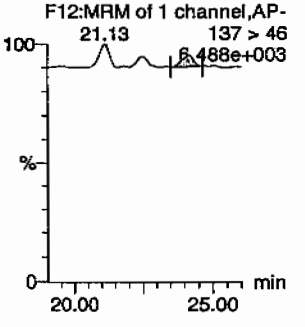
2-Nitrotoluene



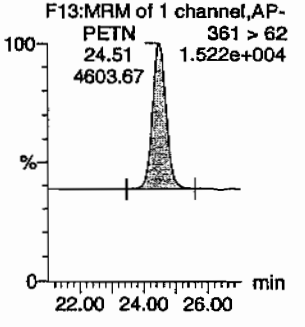
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100208-08CRI	HMX	176 > 102	5.20	1065.193	3190.386	1065.193	166.938	bb			48.0701	120.2	20.2	123.2
WXX100208-08CRI	RDX	176 > 102	7.61	728.502	3190.386	728.502	114.171	bb			47.0201	117.6	17.6	72.9
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.20	1251.430	3190.386	1251.430	196.125	bb			53.2507	133.1	33.1	453.1
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	3190.386		3190.386	3190.386	bb			496.2378	99.2	-0.8	601.5
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.21	322.827	3190.386	322.827	50.594	bb			42.0774	105.2	5.2	32.7
WXX100208-08CRI	Tetryl	241 > 181	12.73	356.470	3190.386	356.470	55.866	bb			49.9957	125.0	25.0	24.8
WXX100208-08CRI	Nitrobenzene	123 > 46	13.62	216.302	3190.386	216.302	33.899	bb			41.9662	104.9	4.9	17.6
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.73	526.807	21850.213	526.807	12.055	MM	11-Feb-10	09:26:46	41.9675	104.9	4.9	25.3
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.62	666.954	21850.213	666.954	15.262	bb			38.5373	96.3	-3.7	113.0
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.44	452.304	21850.213	452.304	10.350	bb			32.0771	80.2	-19.8	83.9
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.42	798.569	21850.213	798.569	18.274	bb			20.3043	101.5	1.5	44.1
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.66	1832.985	21850.213	1832.985	41.944	MM	11-Feb-10	09:59:36	39.0511	97.6	-2.4	123.9
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.31	439.472	21850.213	439.472	10.056	MM	11-Feb-10	10:01:11	41.2063	103.0	3.0	27.8
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.46	21850.213		21850.213	21850.213	bb			591.8361	118.4	18.4	1782.6
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.13	277.990	21850.213	277.990	6.361	bb			41.0277	102.6	2.6	61.2
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.50	130.906	21850.213	130.906	2.996	bb			39.4135	98.5	-1.5	27.6
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.18	141.817	21850.213	141.817	3.245	bb			34.8306	87.1	-12.9	29.5
WXX100208-08CRI	PETN	361 > 62	24.51	4603.666	21850.213	4603.666	105.346	bb			55.1761	137.9	37.9	894.2

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/11/10
Time of Injection	0838
Standard Number	WXX100208-08CRI
Data File	EXP0208135a

HMX	120.2
RDX	117.6
135-TNB	133.1
13-DNB	105.2
Tetryl	125.0
Nitrobenzene	104.9
4A-26-DNT	104.9
2A-46-DNT	96.3
246-TNT	80.2
34-DNT(surr)	101.5
26-DNT	97.6
24-DNT	103.0
2-NT	102.6
4-NT	98.5
3-NT	87.1
PETN	137.9
Total	1715.6
Average	107.2

AWP 2/11/10

Hmm 2/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208145a **Analysis Date:** 11-FEB-10 13:34

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	559.95	93	
1,3-Dinitrobenzene-d4	500	507.071	101	
2,4,6-Trinitrotoluene	600	636.938	106	
2,4-Dinitrotoluene	600	643.853	107	
2,6-Dinitrotoluene	600	629.897	105	
2,6-Dinitrotoluene-d3	500	498.486	100	
2-Amino-4,6-dinitrotoluene	600	648.791	108	
3,4-Dinitrotoluene	300	324.255	108	
4-Amino-2,6-dinitrotoluene	600	603.46	101	
HMX	600	583.237	97	
Nitrobenzene	600	623.611	104	
PETN	600	723.874	121	*
RDX	600	637.14	106	
Tetryl	600	617.261	103	
m-Dinitrobenzene	600	611.284	102	
m-Nitrotoluene	600	566.246	94	
o-Nitrotoluene	600	608.792	101	
p-Nitrotoluene	600	612.602	102	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208145a
Date: 11-Feb-2010
Time: 13:34:04
ID: WXX100211-07CCV
Vial: 1:1,B

HMX 2/12/10

HMX
F2:MRM of 1 channel,AP-
176 > 102
7.368e+004
7.61
5.00 10.00 min

RDX
F2:MRM of 1 channel,AP-
5.20
176 > 102
7.368e+004
RDX
7.61
10086.99
5.00 10.00 min

135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.412e+004
10.00 12.50 min

13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.451e+004
10.05
10.00 12.00 14.00 min

13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
1.892e+004
10.00 12.00 14.00 min

Tetryl
F6:MRM of 1 channel,AP-
Tetryl
12.73
3681.10
241 > 181
1.669e+004
10.00 15.00 min

Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
1.602e+004
12.00 14.00 16.00 min

4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
2.225e+004
14.00 16.00 18.00 min

2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
3.060e+004
14.00 16.00 18.00 min

246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
2.363e+004
14.00 16.00 18.00 min

34-dinitrotoluene
F9:MRM of 2 channels,AP-
17.64
182 > 152
7.324e+004
18.29
15.00 20.00 min

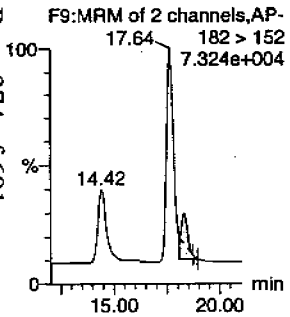
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.324e+004
14.42
18.29
15.00 20.00 min

Hmye 02/12/10

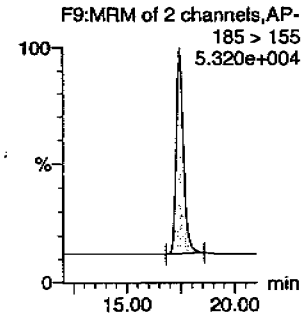
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

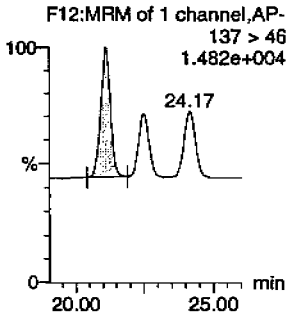
24-dinitrotoluene



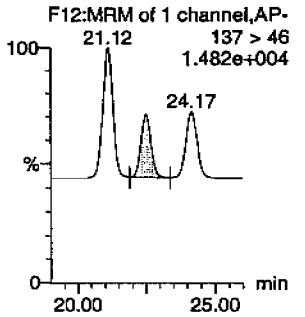
26-dinitrotoluene-d3



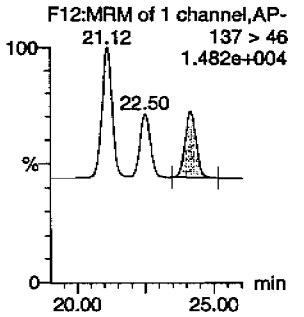
2-Nitrotoluene



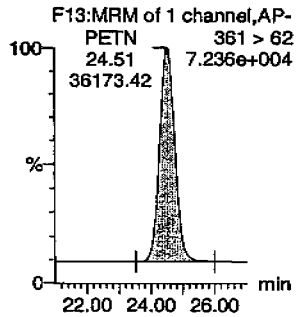
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100211-07CCV	HMX	176 > 102	5.20	13206.193	3260.034	13206.193	2025.469	bb			583.2373	97.2	-2.8	1086.6
WXX100211-07CCV	RDX	176 > 102	7.61	10086.988	3260.034	10086.988	1547.068	bb			637.1403	106.2	6.2	710.7
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.20	13446.518	3260.034	13446.518	2062.328	bb			559.9502	93.3	-6.7	910.8
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3260.034		3260.034	3260.034	bb			507.0710	101.4	1.4	524.7
WXX100211-07CCV	13-Dinitrobenzene	168 > 138	12.21	4792.287	3260.034	4792.287	735.006	bb			611.2844	101.9	1.9	606.8
WXX100211-07CCV	Tetryl	241 > 181	12.73	3681.104	3260.034	3681.104	564.581	bb			617.2613	102.9	2.9	367.3
WXX100211-07CCV	Nitrobenzene	123 > 46	13.62	3284.383	3260.034	3284.383	503.734	bb			623.6106	103.9	3.9	221.1
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.70	6380.259	18403.783	6380.259	173.341	MM	12-Feb-10	07:58:23	603.4605	100.6	0.6	365.3
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.62	9457.366	18403.783	9457.366	256.941	bb			648.7908	108.1	8.1	402.1
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.44	7564.563	18403.783	7564.563	205.517	bb			636.9382	106.2	6.2	330.4
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.42	10741.435	18403.783	10741.435	291.827	bb			324.2549	108.1	8.1	440.5
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.64	24902.684	18403.783	24902.684	676.564	MM	12-Feb-10	08:04:29	629.8966	105.0	5.0	1301.6
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.29	5783.696	18403.783	5783.696	157.133	MM	12-Feb-10	08:08:48	643.8532	107.3	7.3	278.8
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	18403.783		18403.783	18403.783	bb			498.4859	99.7	-0.3	1269.0
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.12	3474.344	18403.783	3474.344	94.392	bb			608.7920	101.5	1.5	892.5
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.50	1713.738	18403.783	1713.738	46.559	bb			612.6023	102.1	2.1	429.0
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.17	1941.887	18403.783	1941.887	52.758	bb			566.2457	94.4	-5.6	450.7
WXX100211-07CCV	PETN	361 > 62	24.51	36173.418	18403.783	36173.418	982.771	bb			723.8738	120.6	20.6	5612.2

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/11/10
Time of Injection: 1334
Standard Number: WXX100211-07CCV
Data File: EXP0208145a

HMX	97.2
RDX	106.2
135-TNB	93.3
13-DNB	101.9
Tetryl	102.9
Nitrobenzene	103.9
4A-26-DNT	100.6
2A-46-DNT	108.1
246-TNT	106.2
34-DNT(surr)	108.1
26-DNT	105.0
24-DNT	107.3
2-NT	101.5
4-NT	102.1
3-NT	94.4
PETN	120.6
Total	1659.3
Average	103.7

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208147a

Analysis Date: 11-FEB-10 14:33

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	49.729	124	
1,3-Dinitrobenzene-d4	500	516.222	103	
2,4,6-Trinitrotoluene	40	38.92	97	
2,4-Dinitrotoluene	40	33.223	83	
2,6-Dinitrotoluene	40	40.948	102	
2,6-Dinitrotoluene-d3	500	573.135	115	
2-Amino-4,6-dinitrotoluene	40	40.905	102	
3,4-Dinitrotoluene	20	16.725	84	
4-Amino-2,6-dinitrotoluene	40	42.799	107	
HMX	40	40.54	101	
Nitrobenzene	40	39.412	99	
PETN	40	46.221	116	
RDX	40	36.181	90	
Tetryl	40	36.32	91	
m-Dinitrobenzene	40	41.498	104	
m-Nitrotoluene	40	36.824	92	
o-Nitrotoluene	40	43.119	108	
p-Nitrotoluene	40	43.135	108	

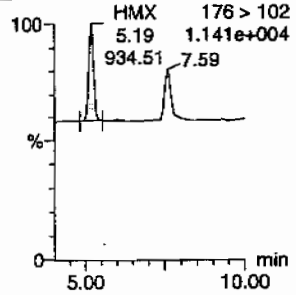
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

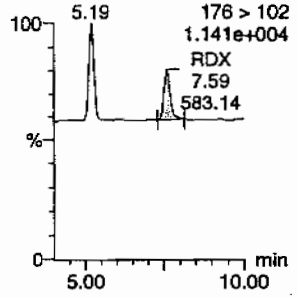
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208147a
Date: 11-Feb-2010
Time: 14:33:07
ID: WXX100211-08CRI
Vial: 1:1,C

Page 47 of 691

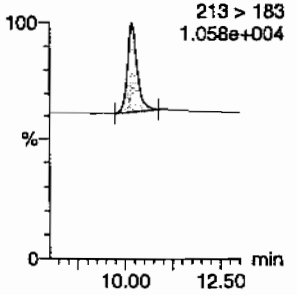
HMX



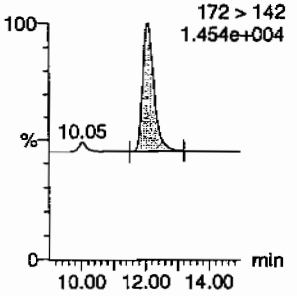
RDX



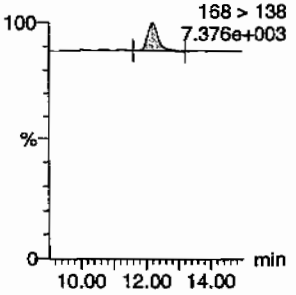
135-Trinitrobenzene



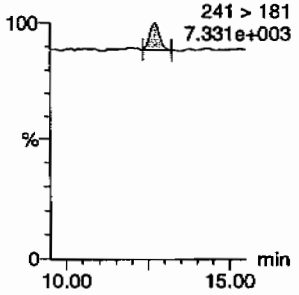
13-Dinitrobenzene-d4



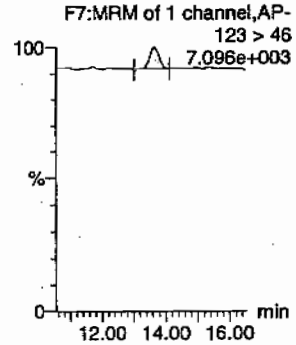
13-Dinitrobenzene



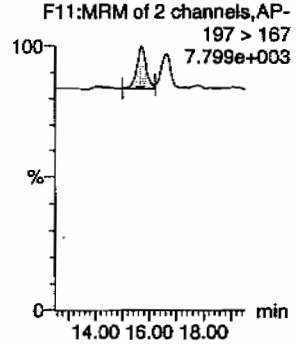
Tetryl



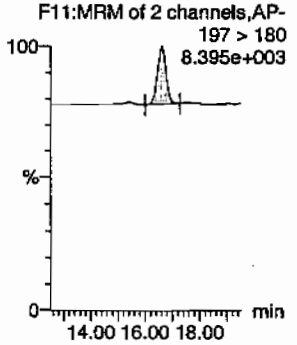
Nitrobenzene



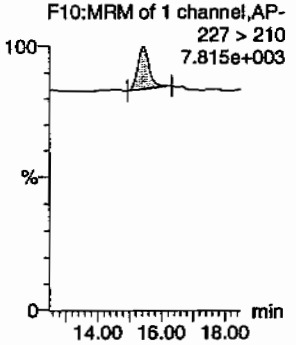
4-Amino-26-dinitrotoluene



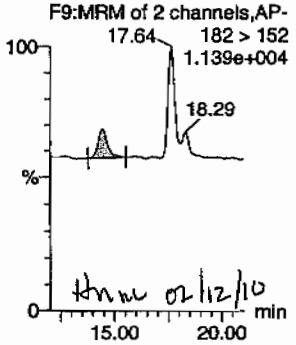
2-Amino-46-dinitrotoluene



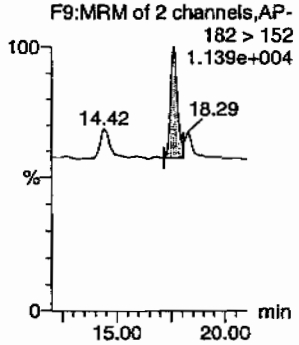
246-Trinitrotoluene



34-dinitrotoluene



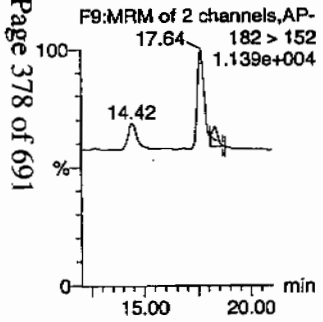
26-dinitrotoluene



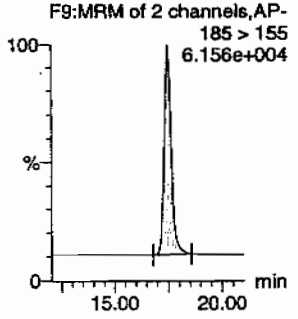
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

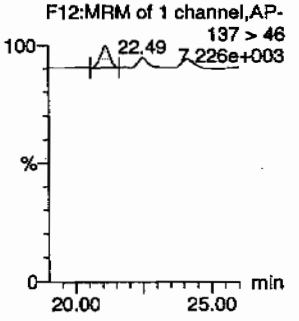
24-dinitrotoluene



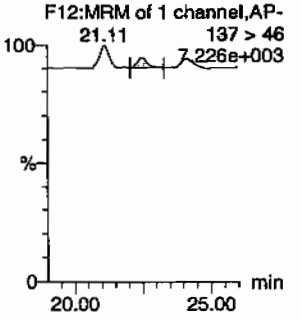
26-dinitrotoluene-d3



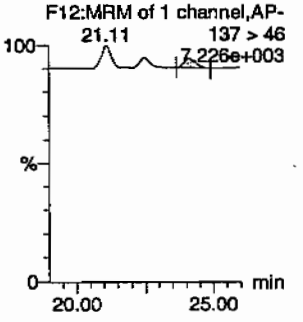
2-Nitrotoluene



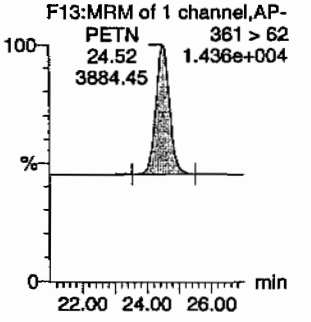
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100211-08CRI	HMX	176 > 102	5.19	934.513	3318.865	934.513	140.788	bb			40.5402	101.4	1.4	86.8
WXX100211-08CRI	RDX	176 > 102	7.59	583.138	3318.865	583.138	87.852	bb			36.1807	90.5	-9.5	45.2
WXX100211-08CRI	135-Trinitrobenzene	213 > 183	10.20	1215.719	3318.865	1215.719	183.153	bb			49.7285	124.3	24.3	178.3
WXX100211-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	3318.865		3318.865	3318.865	bb			516.2216	103.2	3.2	212.4
WXX100211-08CRI	13-Dinitrobenzene	168 > 138	12.21	331.204	3318.865	331.204	49.897	bb			41.4981	103.7	3.7	33.5
WXX100211-08CRI	Tetryl	241 > 181	12.73	284.245	3318.865	284.245	42.823	bb			36.3198	90.8	-9.2	42.7
WXX100211-08CRI	Nitrobenzene	123 > 46	13.62	211.320	3318.865	211.320	31.836	bb			39.4124	98.5	-1.5	17.7
WXX100211-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.70	520.271	21159.785	520.271	12.294	MM	12-Feb-10	07:58:28	42.7992	107.0	7.0	30.6
WXX100211-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.62	685.557	21159.785	685.557	16.200	bb			40.9048	102.3	2.3	141.2
WXX100211-08CRI	246-Trinitrotoluene	227 > 210	15.44	531.456	21159.785	531.456	12.558	bb			38.9203	97.3	-2.7	51.3
WXX100211-08CRI	34-dinitrotoluene	182 > 152	14.42	636.993	21159.785	636.993	15.052	bb			16.7246	83.6	-16.4	15.4
WXX100211-08CRI	26-dinitrotoluene	182 > 152	17.64	1861.279	21159.785	1861.279	43.982	MM	12-Feb-10	08:04:42	40.9478	102.4	2.4	59.0
WXX100211-08CRI	24-dinitrotoluene	182 > 152	18.29	343.129	21159.785	343.129	8.108	MM	12-Feb-10	08:08:34	33.2227	83.1	-16.9	12.0
WXX100211-08CRI	26-dinitrotoluene-d3	185 > 155	17.48	21159.785		21159.785	21159.785	bb			573.1352	114.6	14.6	1815.2
WXX100211-08CRI	2-Nitrotoluene	137 > 46	21.11	282.928	21159.785	282.928	6.686	bb			43.1189	107.8	7.8	36.1
WXX100211-08CRI	4-Nitrotoluene	137 > 46	22.49	138.739	21159.785	138.739	3.278	bb			43.1349	107.8	7.8	16.7
WXX100211-08CRI	3-Nitrotoluene	137 > 46	24.13	145.196	21159.785	145.196	3.431	bb			36.8240	92.1	-7.9	15.1
WXX100211-08CRI	PETN	361 > 62	24.52	3884.447	21159.785	3884.447	91.788	bb			46.2207	115.6	15.6	728.4

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/11/10
Time of Injection	1433
Standard Number	WXX100211-08CRI
Data File	EXP0208147a

HMX	101.4
RDX	90.5
135-TNB	124.3
13-DNB	103.7
Tetryl	90.8
Nitrobenzene	98.5
4A-26-DNT	107.0
2A-46-DNT	102.3
246-TNT	97.3
34-DNT(surr)	83.6
26-DNT	102.4
24-DNT	83.1
2-NT	107.8
4-NT	107.8
3-NT	92.1
PETN	115.6
Total	1608.2
Average	100.5

4/12/10

Hmm 02/12/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208155a

Analysis Date: 11-FEB-10 18:29

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

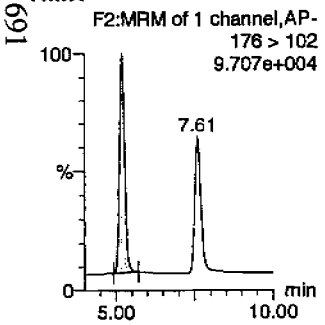
Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	300	341.269	114	
4-Amino-2,6-dinitrotoluene	600	641.093	107	
HMX	600	758.397	126	*
Nitrobenzene	600	633.981	106	
PETN	600	627.004	105	
RDX	600	775.743	129	*
Tetryl	600	659.589	110	
m-Dinitrobenzene	600	643.098	107	
m-Nitrotoluene	600	479.616	80	*
o-Nitrotoluene	600	649.003	108	
p-Nitrotoluene	600	642.036	107	
1,3,5-Trinitrobenzene	600	584.955	97	
1,3-Dinitrobenzene-d4	500	537.834	108	
2,4,6-Trinitrotoluene	600	672.091	112	
2,4-Dinitrotoluene	600	651.546	109	
2,6-Dinitrotoluene	600	630.785	105	
2,6-Dinitrotoluene-d3	500	539.361	108	
2-Amino-4,6-dinitrotoluene	600	714.872	119	

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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

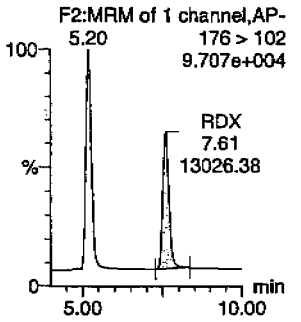
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208155a
Date: 11-Feb-2010
Time: 18:29:30
ID: WXX100211-07CCV
Vial: 1:1,B

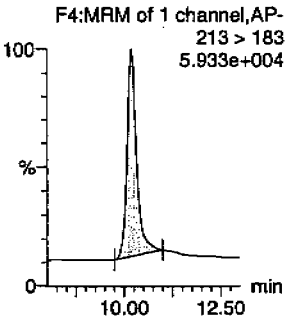
HMX



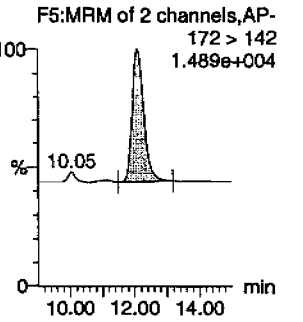
RDX



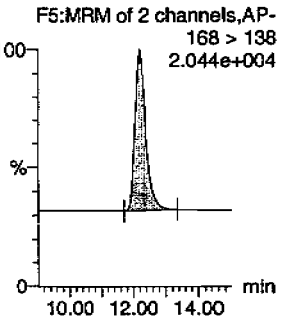
135-Trinitrobenzene



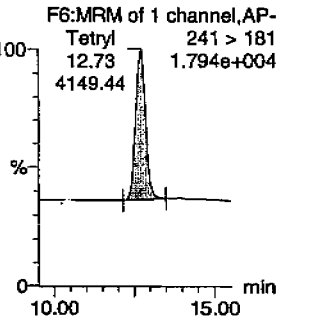
13-Dinitrobenzene-d4



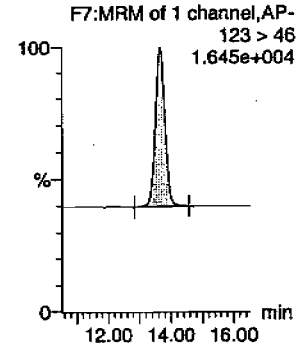
13-Dinitrobenzene



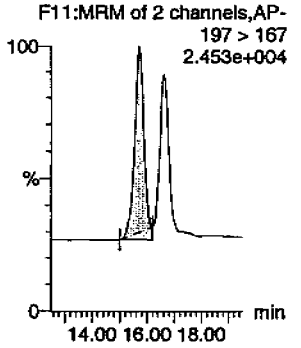
Tetryl



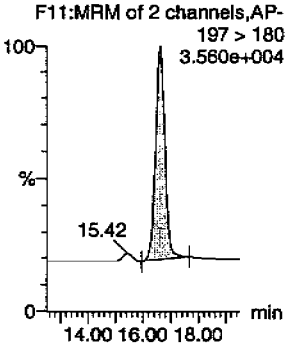
Nitrobenzene



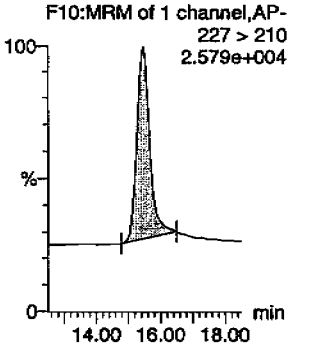
4-Amino-26-dinitrotoluene



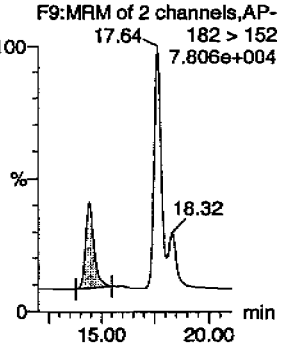
2-Amino-46-dinitrotoluene



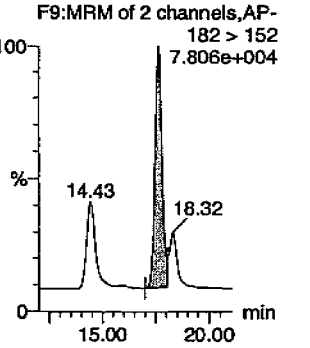
246-Trinitrotoluene



34-dinitrotoluene

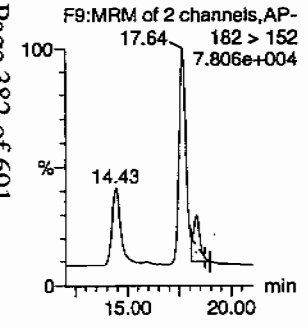


26-dinitrotoluene

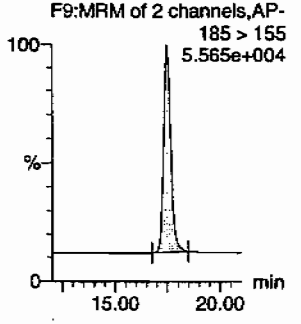


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

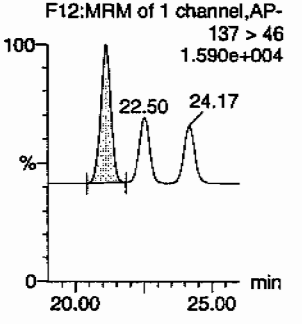
24-dinitrotoluene



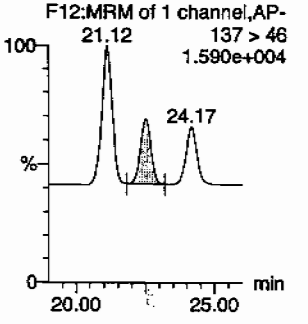
26-dinitrotoluene-d3



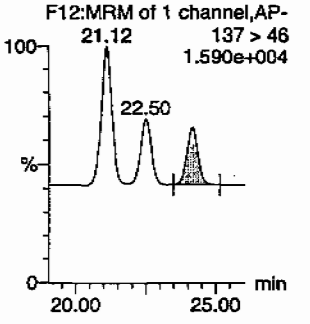
2-Nitrotoluene



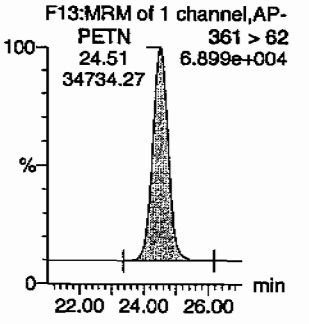
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
WXX100211-07CCV	HMX	176 > 102	5.20	18214.146	3457.815	18214.146	2633.765	db			758.3974	126.4	26.4	912.7
WXX100211-07CCV	RDX	176 > 102	7.61	13026.384	3457.815	13026.384	1883.615	bb			775.7429	129.3	29.3	565.6
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.20	14899.180	3457.815	14899.180	2154.421	bb			584.9548	97.5	-2.5	1756.5
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3457.815		3457.815	3457.815	bb			537.8342	107.6	7.6	307.1
WXX100211-07CCV	13-Dinitrobenzene	168 > 138	12.21	5347.566	3457.815	5347.566	773.258	bb			643.0978	107.2	7.2	382.2
WXX100211-07CCV	Tetryl	241 > 181	12.73	4149.437	3457.815	4149.437	600.009	bb			659.5891	109.9	9.9	617.4
WXX100211-07CCV	Nitrobenzene	123 > 46	13.63	3541.570	3457.815	3541.570	512.111	bb			633.9805	105.7	5.7	393.8
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.71	7333.929	19912.854	7333.929	184.151	MM	12-Feb-10	07:59:47	641.0927	106.8	6.8	220.1
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.63	11275.101	19912.854	11275.101	283.111	bb			714.8724	119.1	19.1	499.5
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.45	8636.564	19912.854	8636.564	216.859	bb			672.0909	112.0	12.0	224.4
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.43	12232.050	19912.854	12232.050	307.140	bb			341.2692	113.8	13.8	375.9
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.64	26982.646	19912.854	26982.646	677.518	MM	12-Feb-10	08:05:15	630.7848	105.1	5.1	1049.0
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.32	6332.720	19912.854	6332.720	159.011	MM	12-Feb-10	08:07:53	651.5463	108.6	8.6	232.0
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	19912.854		19912.854	19912.854	bb			539.3607	107.9	7.9	3140.5
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.12	4007.529	19912.854	4007.529	100.627	bb			649.0025	108.2	8.2	957.4
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.50	1943.352	19912.854	1943.352	48.796	bb			642.0358	107.0	7.0	444.9
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.17	1779.667	19912.854	1779.667	44.686	bb			479.6156	79.9	-20.1	392.5
WXX100211-07CCV	PETN	361 > 62	24.51	34734.266	19912.854	34734.266	872.157	bb			627.0040	104.5	4.5	10028.7

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/11/10
Time of Injection: 1829
Standard Number: WXX100211-07CCV
Data File: EXP0208155a

HMX	126.4
RDX	129.3
135-TNB	97.5
13-DNB	107.2
Tetryl	109.9
Nitrobenzene	105.7
4A-26-DNT	106.8
2A-46-DNT	119.1
246-TNT	112.0
34-DNT(surr)	113.8
26-DNT	105.1
24-DNT	108.6
2-NT	108.2
4-NT	107.0
3-NT	79.9
PETN	104.5
Total	1741.0
Average	108.8

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208157a

Analysis Date: 11-FEB-10 19:28

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4,6-Trinitrotoluene	40	45.464	114	
2,4-Dinitrotoluene	40	32.491	81	
2,6-Dinitrotoluene	40	37.857	95	
2,6-Dinitrotoluene-d3	500	465.184	93	
2-Amino-4,6-dinitrotoluene	40	40.427	101	
3,4-Dinitrotoluene	20	22.689	113	
4-Amino-2,6-dinitrotoluene	40	32.487	81	
HMX	40	40.09	100	
Nitrobenzene	40	44.282	111	
PETN	40	48.308	121	
RDX	40	38.585	96	
Tetryl	40	36.534	91	
m-Dinitrobenzene	40	35.416	89	
m-Nitrotoluene	40	47.307	118	
o-Nitrotoluene	40	45.523	114	
p-Nitrotoluene	40	40.92	102	
1,3,5-Trinitrobenzene	40	47.938	120	
1,3-Dinitrobenzene-d4	500	474.289	95	

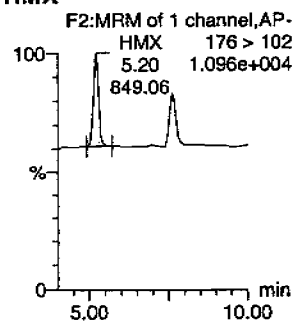
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

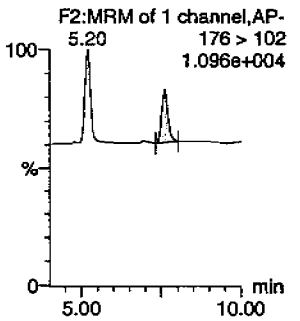
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208157a
Date: 11-Feb-2010
Time: 19:28:28
ID: WXX100211-08CRI
Vial: 1:1,C

MAT 2/12/10

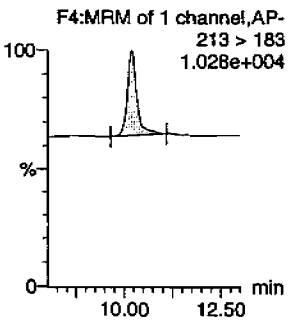
HMX



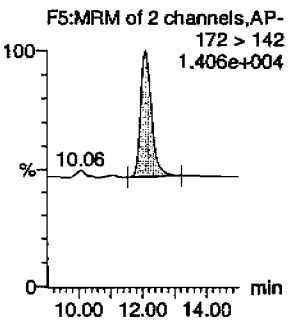
RDX



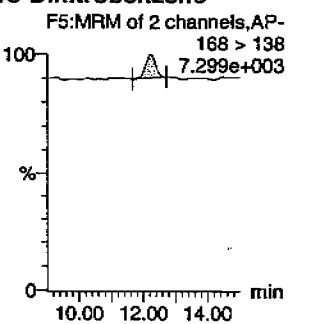
135-Trinitrobenzene



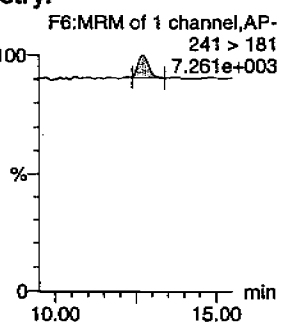
13-Dinitrobenzene-d4



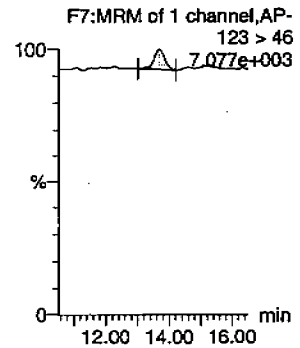
13-Dinitrobenzene



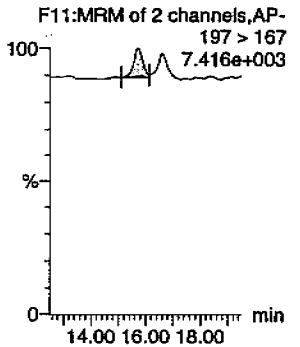
Tetryl



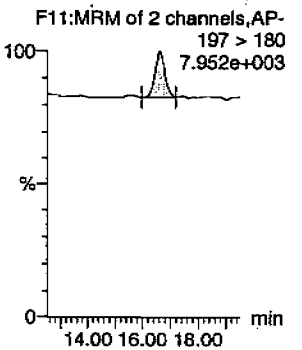
Nitrobenzene



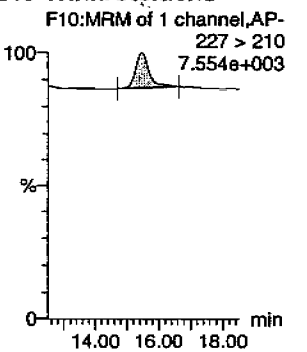
4-Amino-26-dinitrotoluene



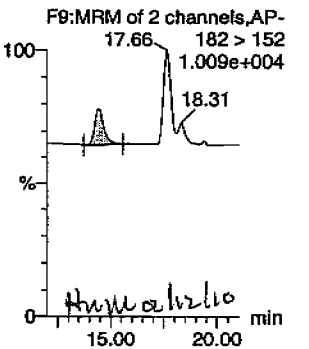
2-Amino-46-dinitrotoluene



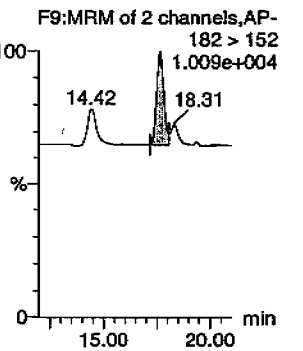
246-Trinitrotoluene



34-dinitrotoluene



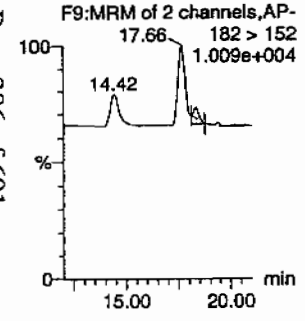
26-dinitrotoluene



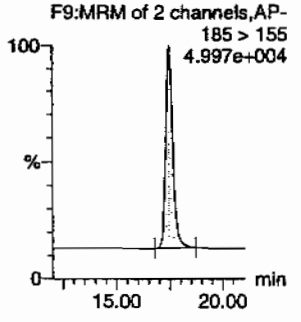
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

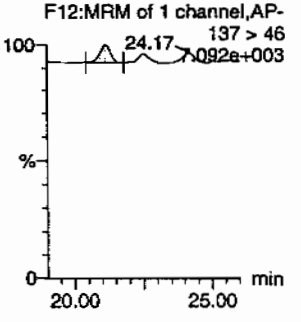
24-dinitrotoluene



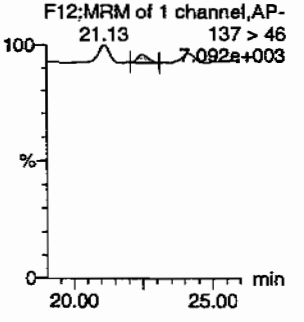
26-dinitrotoluene-d3



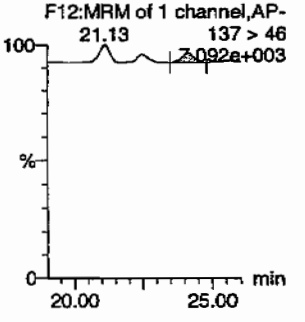
2-Nitrotoluene



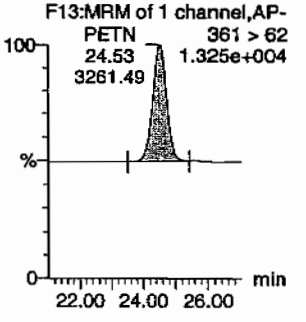
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	% Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100211-08CRI	HMX	176 > 102	5.20	849.064	3049.273	849.064	139.224	bb			40.0898	100.2	0.2	97.7
WXX100211-08CRI	RDX	176 > 102	7.61	571.377	3049.273	571.377	93.691	bb			38.5853	96.5	-3.5	55.9
WXX100211-08CRI	135-Trinitrobenzene	213 > 183	10.20	1076.750	3049.273	1076.750	176.558	bb			47.9380	119.8	19.8	129.4
WXX100211-08CRI	13-Dinitrobenzene-d4	172 > 142	12.10	3049.273		3049.273	3049.273	bb			474.2889	94.9	-5.1	448.0
WXX100211-08CRI	13-Dinitrobenzene	168 > 138	12.24	259.700	3049.273	259.700	42.584	bb			35.4159	88.5	-11.5	24.1
WXX100211-08CRI	Tetryl	241 > 181	12.73	262.402	3049.273	262.402	43.027	bb			36.5337	91.3	-8.7	29.2
WXX100211-08CRI	Nitrobenzene	123 > 46	13.67	218.144	3049.273	218.144	35.770	bb			44.2822	110.7	10.7	15.8
WXX100211-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.73	320.534	17174.301	320.534	9.332	MM	12-Feb-10	07:59:55	32.4872	81.2	-18.8	44.2
WXX100211-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.62	549.935	17174.301	549.935	16.010	bb			40.4272	101.1	1.1	55.9
WXX100211-08CRI	246-Trinitrotoluene	227 > 210	15.48	503.879	17174.301	503.879	14.670	bb			45.4640	113.7	13.7	34.5
WXX100211-08CRI	34-dinitrotoluene	182 > 152	14.42	701.380	17174.301	701.380	20.419	bb			22.6885	113.4	13.4	52.1
WXX100211-08CRI	26-dinitrotoluene	182 > 152	17.66	1396.673	17174.301	1396.673	40.662	MM	12-Feb-10	08:05:22	37.8570	94.6	-5.4	132.2
WXX100211-08CRI	24-dinitrotoluene	182 > 152	18.31	272.364	17174.301	272.364	7.929	MM	12-Feb-10	08:07:44	32.4907	81.2	-18.8	27.3
WXX100211-08CRI	26-dinitrotoluene-d3	185 > 155	17.48	17174.301		17174.301	17174.301	bb			465.1841	93.0	-7.0	1502.3
WXX100211-08CRI	2-Nitrotoluene	137 > 46	21.13	242.443	17174.301	242.443	7.058	bb			45.5233	113.8	13.8	59.2
WXX100211-08CRI	4-Nitrotoluene	137 > 46	22.49	106.825	17174.301	106.825	3.110	bb			40.9200	102.3	2.3	27.1
WXX100211-08CRI	3-Nitrotoluene	137 > 46	24.17	151.398	17174.301	151.398	4.408	bb			47.3074	118.3	18.3	32.4
WXX100211-08CRI	PETN	361 > 62	24.53	3261.487	17174.301	3261.487	94.953	bb			48.3079	120.8	20.8	460.1

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/11/10
Time of Injection	1928
Standard Number	WXX100211-08CRI
Data File	EXP0208157a

HMX		100.2
RDX		96.5
135-TNB		119.8
13-DNB		88.5
Tetryl		91.3
Nitrobenzene		110.7
4A-26-DNT		81.2
2A-46-DNT		101.1
246-TNT		113.7
34-DNT(surr)		113.4
26-DNT		94.6
24-DNT		81.2
2-NT		113.8
4-NT		102.3
3-NT		118.3
PETN		120.8
Total		1647.4
Average		103.0

MAP 2/12/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1432

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208168a

Analysis Date: 12–FEB–10 00:52

LCMSMS ID: 903

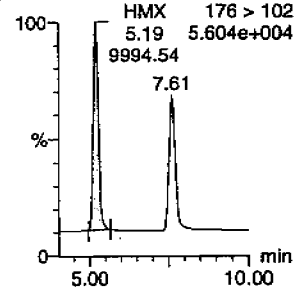
Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p–Nitrotoluene	600	575.749	96	
1,3,5–Trinitrobenzene	600	649.814	108	
1,3–Dinitrobenzene–d4	500	363.136	73	*
2,4,6–Trinitrotoluene	600	704.394	117	
2,4–Dinitrotoluene	600	605.971	101	
2,6–Dinitrotoluene	600	613.961	102	
2,6–Dinitrotoluene–d3	500	365.062	73	*
2–Amino–4,6–dinitrotoluene	600	635.413	106	
3,4–Dinitrotoluene	300	319.507	107	
4–Amino–2,6–dinitrotoluene	600	605.937	101	
HMX	600	616.353	103	
Nitrobenzene	600	690.95	115	
PETN	600	937.241	156	*
RDX	600	667.229	111	
Tetryl	600	719.32	120	
m–Dinitrobenzene	600	637.964	106	
m–Nitrotoluene	600	612.02	102	
o–Nitrotoluene	600	573.693	96	

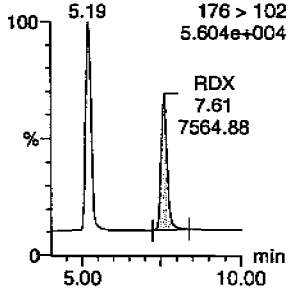
Recovery Limits:
3,4–Dinitrotoluene (Surrogate),TATB, tris(o–cresyl)phosphate, 3,5–Dinitroaniline, 2,6–Diamino–4–nitrotoluene , 2,4–Diamino–6–nitrotoluene 70–130%
OtherTarget Analytes 80–120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208168a
Date: 12-Feb-2010
Time: 00:52:53
ID: WXX100211-07CCV
Vial: 1:1,B

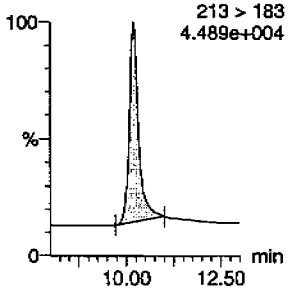
HMX



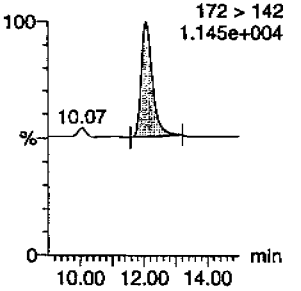
RDX



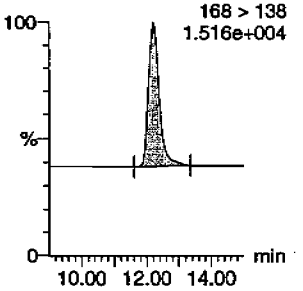
135-Trinitrobenzene



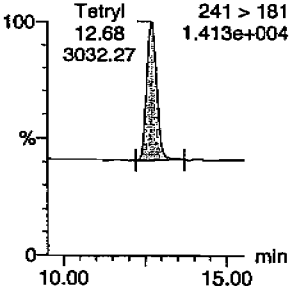
13-Dinitrobenzene-d4



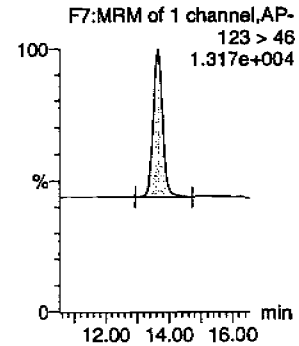
13-Dinitrobenzene



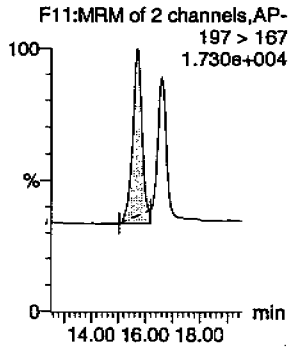
Tetryl



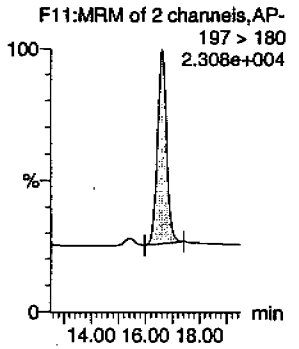
Nitrobenzene



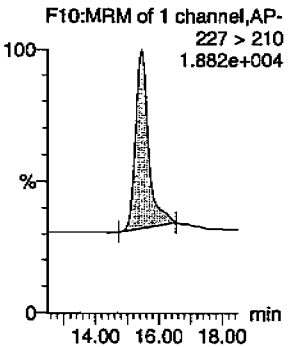
4-Amino-26-dinitrotoluene



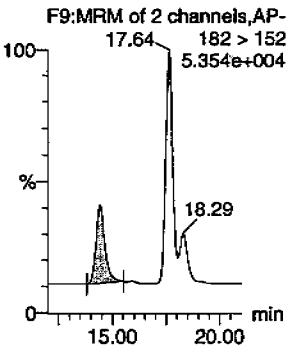
2-Amino-46-dinitrotoluene



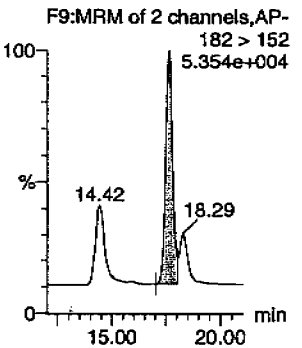
246-Trinitrotoluene



34-dinitrotoluene

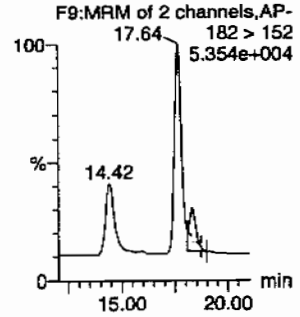


26-dinitrotoluene

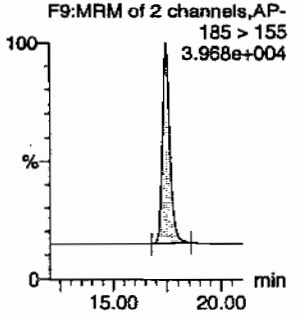


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

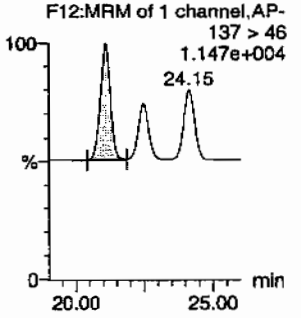
24-dinitrotoluene



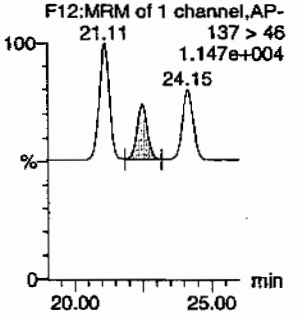
26-dinitrotoluene-d3



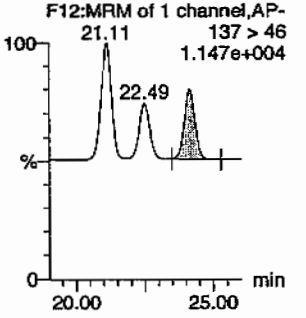
2-Nitrotoluene



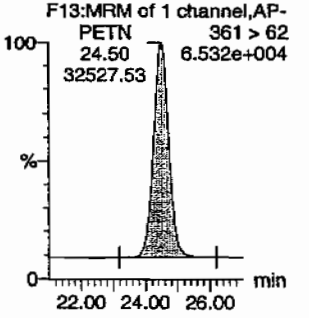
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ug/mL	%Rec	%Dev	S/N
WXX100211-07CCV	HMX	176 > 102	5.19	9994.540	2334.658	9994.540	2140.472	bb			616.3527	102.7	2.7	1103.1
WXX100211-07CCV	RDX	176 > 102	7.61	7564.883	2334.658	7564.883	1620.127	bb			667.2286	111.2	11.2	720.2
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.20	11175.075	2334.658	11175.075	2393.300	bb			649.8137	108.3	8.3	1242.6
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	2334.658		2334.658	2334.658	bb			363.1365	72.6	-27.4	326.8
WXX100211-07CCV	13-Dinitrobenzene	168 > 138	12.21	3581.761	2334.658	3581.761	767.085	bb			637.9637	106.3	6.3	394.6
WXX100211-07CCV	Tetryl	241 > 181	12.68	3032.274	2334.658	3032.274	649.404	bb			719.3195	119.9	19.9	305.9
WXX100211-07CCV	Nitrobenzene	123 > 46	13.62	2606.083	2334.658	2606.083	558.129	bb			690.9503	115.2	15.2	209.6
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.70	4691.699	13477.839	4691.699	174.052	MM	12-Feb-10	08:00:48	605.9371	101.0	1.0	235.4
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.60	6783.207	13477.839	6783.207	251.643	bb			635.4134	105.9	5.9	358.1
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.45	6126.539	13477.839	6126.539	227.282	bb			704.3937	117.4	17.4	372.1
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.42	7751.206	13477.839	7751.206	287.554	bb			319.5070	106.5	6.5	336.0
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.64	17775.865	13477.839	17775.865	659.448	MM	12-Feb-10	08:05:48	613.9608	102.3	2.3	993.9
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.29	3986.427	13477.839	3986.427	147.888	MM	12-Feb-10	08:07:01	605.9713	101.0	1.0	208.0
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	13477.839		13477.839	13477.839	bb			365.0615	73.0	-27.0	812.6
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.11	2397.708	13477.839	2397.708	88.950	bb			573.6926	95.6	-4.4	416.7
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.49	1179.539	13477.839	1179.539	43.758	bb			575.7492	96.0	-4.0	198.1
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.15	1537.085	13477.839	1537.085	57.023	bb			612.0200	102.0	2.0	247.7
WXX100211-07CCV	PETN	361 > 62	24.50	32527.529	13477.839	32527.529	1206.704	bb			937.2408	156.2	56.2	4271.7

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/12/10
Time of Injection: 0052
Standard Number: WXX100211-07CCV
Data File: EXP0208168a

HMX		102.7
RDX		111.2
135-TNB		108.3
13-DNB		106.3
Tetryl		119.9
Nitrobenzene		115.2
4A-26-DNT		101.0
2A-46-DNT		105.9
246-TNT		117.4
34-DNT(surr)		106.5
26-DNT		102.3
24-DNT		101.0
2-NT		95.6
4-NT		96.0
3-NT		102.0
PETN		156.2
Total		1747.5
Average		109.2

HMX 2/12/10

Hmw 02/12/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208170a **Analysis Date:** 12-FEB-10 01:51

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Tetryl	40	41.479	104	
m-Dinitrobenzene	40	37.812	95	
m-Nitrotoluene	40	36.746	92	
o-Nitrotoluene	40	42.552	106	
p-Nitrotoluene	40	43.248	108	
1,3,5-Trinitrobenzene	40	54.58	136	*
1,3-Dinitrobenzene-d4	500	414.79	83	
2,4,6-Trinitrotoluene	40	31.941	80	
2,4-Dinitrotoluene	40	36.526	91	
2,6-Dinitrotoluene	40	39.901	100	
2,6-Dinitrotoluene-d3	500	419.808	84	
2-Amino-4,6-dinitrotoluene	40	41.208	103	
3,4-Dinitrotoluene	20	18.972	95	
4-Amino-2,6-dinitrotoluene	40	36.002	90	
HMX	40	41.297	103	
Nitrobenzene	40	42.737	107	
PETN	40	58.979	147	*
RDX	40	33.84	85	

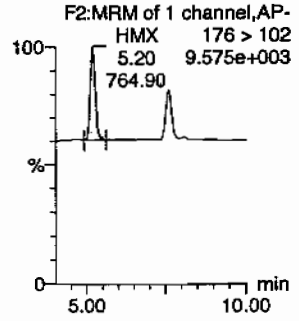
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

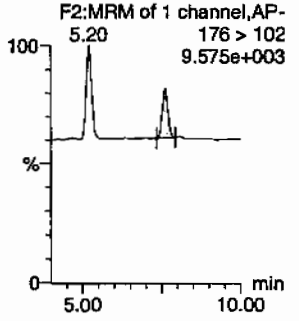
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208170a
Date: 12-Feb-2010
Time: 01:51:53
ID: WXX100211-08CRI
Vial: 1:1,C

MMP 2/12/10

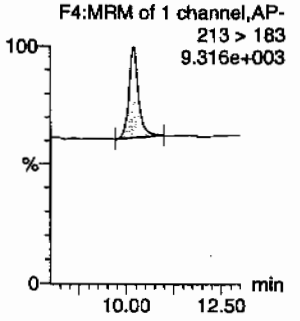
HMX



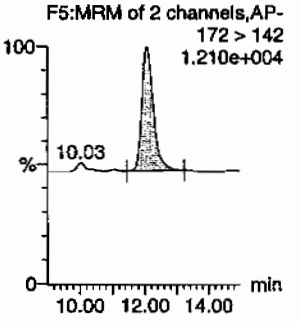
RDX



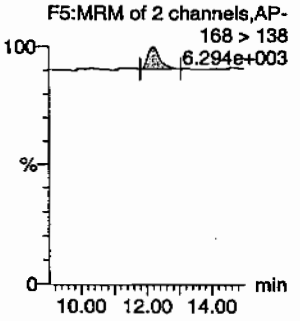
135-Trinitrobenzene



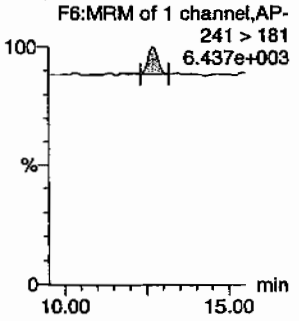
13-Dinitrobenzene-d4



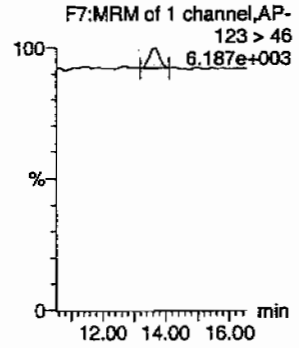
13-Dinitrobenzene



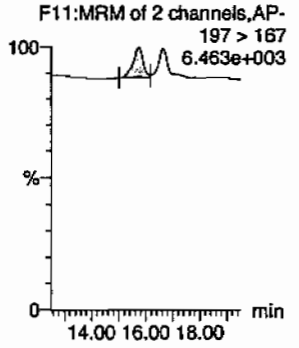
Tetryl



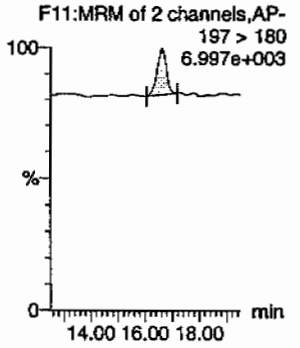
Nitrobenzene



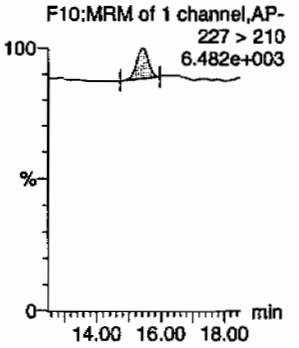
4-Amino-26-dinitrotoluene



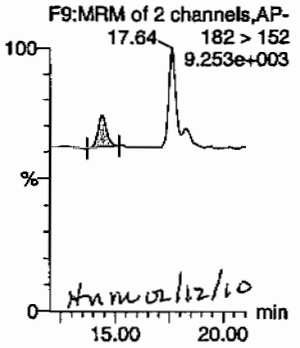
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

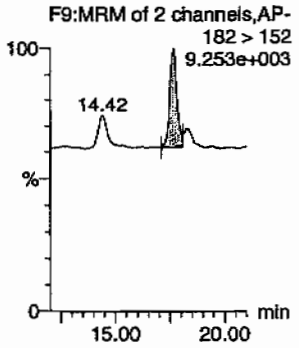


34-dinitrotoluene



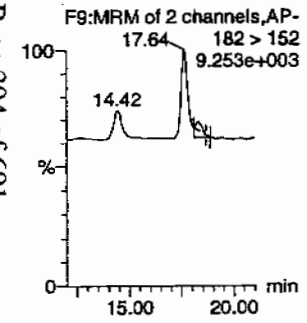
Hmm 02/12/10

26-dinitrotoluene

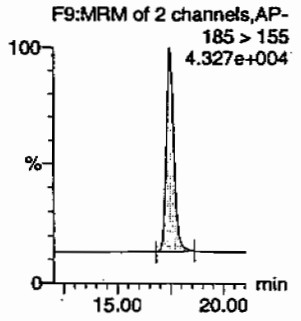


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

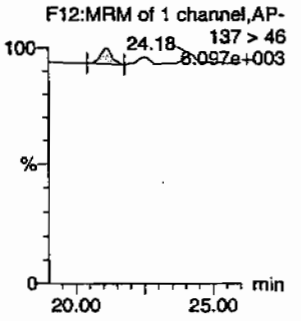
24-dinitrotoluene



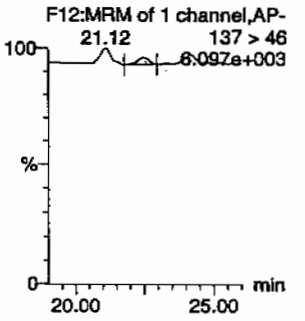
26-dinitrotoluene-d3



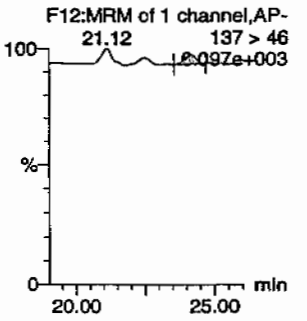
2-Nitrotoluene



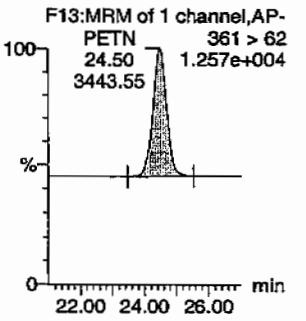
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
WXX100211-08CRI	HMX	176 > 102	5.20	764.902	2666.746	764.902	143.415	bb			41.2966	103.2	3.2	84.1
WXX100211-08CRI	RDX	176 > 102	7.61	438.238	2666.746	438.238	82.167	bb			33.8395	84.6	-15.4	44.7
WXX100211-08CRI	135-Trinitrobenzene	213 > 183	10.20	1072.145	2666.746	1072.145	201.021	bb			54.5800	136.5	36.5	119.3
WXX100211-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	2666.746		2666.746	2666.746	bb			414.7900	83.0	-17.0	202.1
WXX100211-08CRI	13-Dinitrobenzene	168 > 138	12.21	242.490	2666.746	242.490	45.466	bb			37.8124	94.5	-5.5	27.0
WXX100211-08CRI	Tetryl	241 > 181	12.68	254.659	2666.746	254.659	47.747	bb			41.4785	103.7	3.7	19.1
WXX100211-08CRI	Nitrobenzene	123 > 46	13.62	184.121	2666.746	184.121	34.522	bb			42.7369	106.8	6.8	21.3
WXX100211-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	320.565	15499.035	320.565	10.341	MM	12-Feb-10	08:00:59	36.0022	90.0	-10.0	38.6
WXX100211-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.60	505.872	15499.035	505.872	16.319	bb			41.2076	103.0	3.0	42.8
WXX100211-08CRI	246-Trinitrotoluene	227 > 210	15.41	319.476	15499.035	319.476	10.306	bb			31.9414	79.9	-20.1	38.8
WXX100211-08CRI	34-dinitrotoluene	182 > 152	14.42	529.277	15499.035	529.277	17.075	bb			18.9719	94.9	-5.1	42.0
WXX100211-08CRI	26-dinitrotoluene	182 > 152	17.64	1328.482	15499.035	1328.482	42.857	MM	12-Feb-10	08:05:54	39.9008	99.8	-0.2	130.8
WXX100211-08CRI	24-dinitrotoluene	182 > 152	18.29	276.327	15499.035	276.327	8.914	MM	12-Feb-10	08:06:52	36.5264	91.3	-8.7	23.6
WXX100211-08CRI	26-dinitrotoluene-d3	185 > 155	17.46	15499.035		15499.035	15499.035	bb			419.8078	84.0	-16.0	2320.2
WXX100211-08CRI	2-Nitrotoluene	137 > 46	21.12	204.514	15499.035	204.514	6.598	bb			42.5522	106.4	6.4	28.1
WXX100211-08CRI	4-Nitrotoluene	137 > 46	22.50	101.890	15499.035	101.890	3.287	bb			43.2482	108.1	8.1	13.0
WXX100211-08CRI	3-Nitrotoluene	137 > 46	24.18	106.126	15499.035	106.126	3.424	bb			36.7456	91.9	-8.1	15.4
WXX100211-08CRI	PETN	361 > 62	24.50	3443.553	15499.035	3443.553	111.089	bb			58.9793	147.4	47.4	2261.0

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/12/10
Time of Injection	0151
Standard Number	WXX100211-08CRI
Data File	EXP0208170a

HMX	103.2
RDX	84.6
135-TNB	136.5
13-DNB	94.5
Tetryl	103.7
Nitrobenzene	106.8
4A-26-DNT	90.0
2A-46-DNT	103.0
246-TNT	79.9
34-DNT(surr)	94.9
26-DNT	99.8
24-DNT	91.3
2-NT	106.4
4-NT	108.1
3-NT	91.9
PETN	147.4
Total	1642.0
Average	102.6

MMT 2/12/10

Hmm 02/12/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208179a **Analysis Date:** 12-FEB-10 06:17

LCMSMS ID: 903 **Column ID** Phenomenex Ultracarb 5u ODS(20)

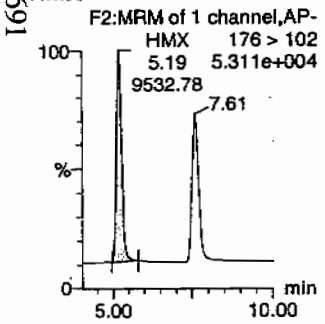
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	587.089	98	
1,3-Dinitrobenzene-d4	500	399.529	80	*
2,4,6-Trinitrotoluene	600	750.342	125	*
2,4-Dinitrotoluene	600	599.438	100	
2,6-Dinitrotoluene	600	606.259	101	
2,6-Dinitrotoluene-d3	500	413.212	83	
2-Amino-4,6-dinitrotoluene	600	595.295	99	
3,4-Dinitrotoluene	300	330.75	110	
4-Amino-2,6-dinitrotoluene	600	578.418	96	
HMX	600	534.328	89	
Nitrobenzene	600	626.915	104	
PETN	600	774.197	129	*
RDX	600	606.847	101	
Tetryl	600	700.204	117	
m-Dinitrobenzene	600	629.509	105	
m-Nitrotoluene	600	504.3	84	
o-Nitrotoluene	600	541.966	90	
p-Nitrotoluene	600	543.447	91	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

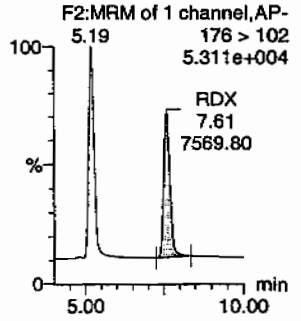
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208179a
Date: 12-Feb-2010
Time: 06:17:31
ID: WXX100211-07CCV
Vial: 1:1,B

Page 397 of 691

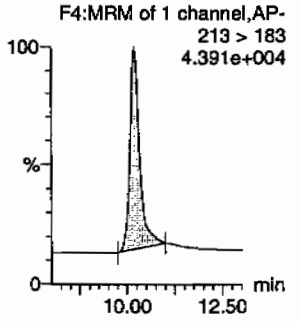
HMX



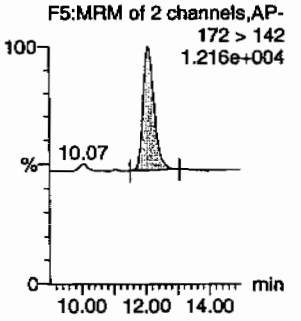
RDX



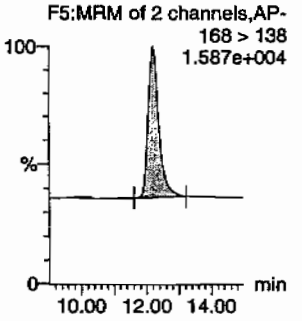
135-Trinitrobenzene



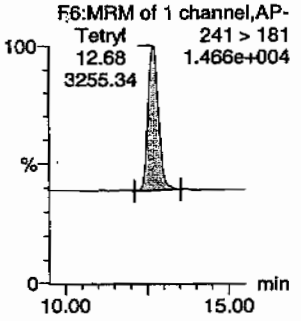
13-Dinitrobenzene-d4



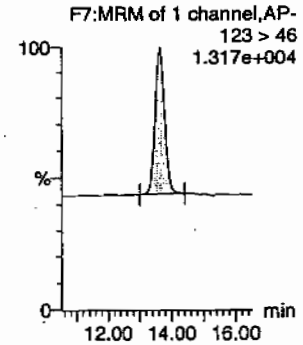
13-Dinitrobenzene



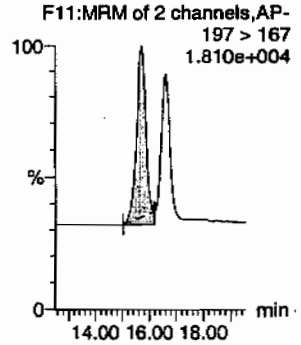
Tetryl



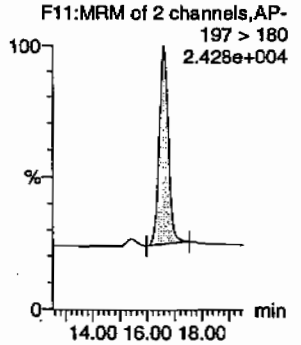
Nitrobenzene



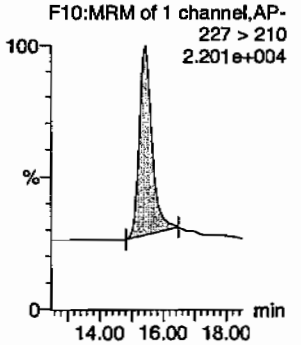
4-Amino-26-dinitrotoluene



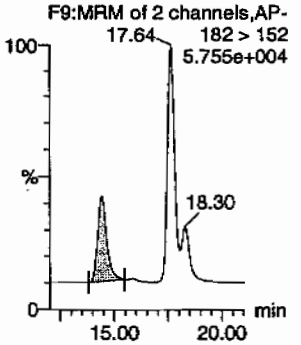
2-Amino-46-dinitrotoluene



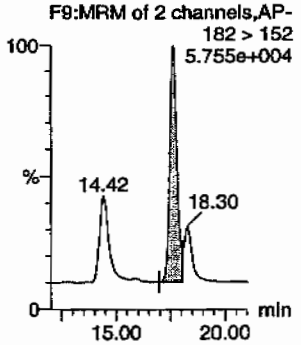
246-Trinitrotoluene



34-dinitrotoluene



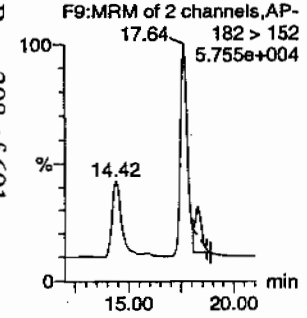
26-dinitrotoluene



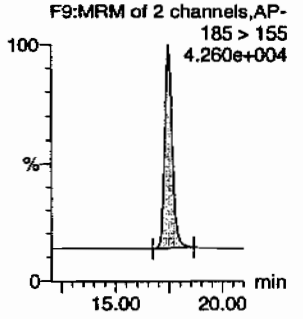
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

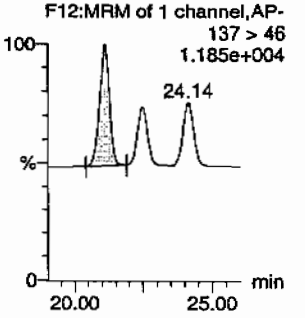
24-dinitrotoluene



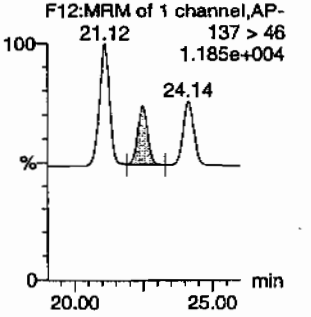
26-dinitrotoluene-d3



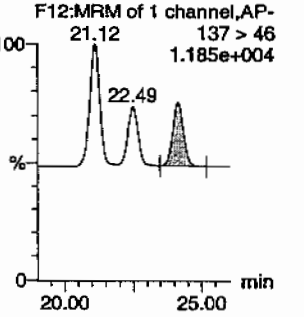
2-Nitrotoluene



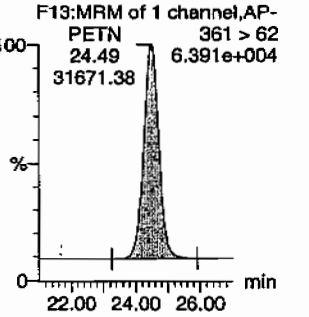
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100211-07CCV	HMX	176 > 102	5.19	9532.778	2568.628	9532.778	1855.617	bb			534.3281	89.1	-10.9	1213.9
WXX100211-07CCV	RDX	176 > 102	7.61	7569.802	2568.628	7569.802	1473.511	bb			606.8467	101.1	1.1	843.2
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.20	11108.188	2568.628	11108.188	2162.280	bb			587.0887	97.8	-2.2	1301.5
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	2568.628		2568.628	2568.628	bb			399.5286	79.9	-20.1	228.2
WXX100211-07CCV	13-Dinitrobenzene	168 > 138	12.21	3888.488	2568.628	3888.488	756.919	bb			629.5094	104.9	4.9	516.5
WXX100211-07CCV	Tetryl	241 > 181	12.68	3255.336	2568.628	3255.336	633.672	bb			700.2038	116.7	16.7	330.8
WXX100211-07CCV	Nitrobenzene	123 > 46	13.62	2601.525	2568.628	2601.525	506.404	bb			626.9150	104.5	4.5	286.0
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.71	5069.339	15255.532	5069.339	166.148	MM	12-Feb-10	08:01:12	578.4178	96.4	-3.6	314.5
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.60	7193.136	15255.532	7193.136	235.755	bb			595.2953	99.2	-0.8	526.8
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.45	7386.962	15255.532	7386.962	242.108	bb			750.3417	125.1	25.1	135.1
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.42	9082.291	15255.532	9082.291	297.672	bb			330.7496	110.2	10.2	318.1
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.64	19868.055	15255.532	19868.055	651.175	MM	12-Feb-10	08:06:04	606.2590	101.0	1.0	880.1
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.30	4463.577	15255.532	4463.577	146.294	MM	12-Feb-10	08:06:38	599.4379	99.9	-0.1	193.7
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	15255.532		15255.532	15255.532	bb			413.2122	82.6	-17.4	2125.6
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.12	2563.873	15255.532	2563.873	84.031	bb			541.9664	90.3	-9.7	631.8
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.49	1260.210	15255.532	1260.210	41.303	bb			543.4466	90.6	-9.4	304.6
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.14	1433.602	15255.532	1433.602	46.986	bb			504.3003	84.1	-15.9	329.9
WXX100211-07CCV	PETN	361 > 62	24.49	31671.375	15255.532	31671.375	1038.029	bb			774.1968	129.0	29.0	4193.7

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/12/10
Time of Injection: 0617
Standard Number: WXX100211-07CCV
Data File: EXP0208179a

HMX	89.1
RDX	101.1
135-TNB	97.8
13-DNB	104.9
Tetryl	116.7
Nitrobenzene	104.5
4A-26-DNT	96.4
2A-46-DNT	99.2
246-TNT	125.1
34-DNT(surr)	110.2
26-DNT	101.0
24-DNT	99.9
2-NT	90.3
4-NT	90.6
3-NT	84.1
PETN	129.0
Total	1639.9
Average	102.5

MATT 2/12/10

Hmm 02/15/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208181a

Analysis Date: 12-FEB-10 07:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	44.012	110	
1,3-Dinitrobenzene-d4	500	438.92	88	
2,4,6-Trinitrotoluene	40	42.728	107	
2,4-Dinitrotoluene	40	42.259	106	
2,6-Dinitrotoluene	40	37.113	93	
2,6-Dinitrotoluene-d3	500	442.662	89	
2-Amino-4,6-dinitrotoluene	40	36.972	92	
3,4-Dinitrotoluene	20	20.284	101	
4-Amino-2,6-dinitrotoluene	40	36.006	90	
HMX	40	39.857	100	
Nitrobenzene	40	38.793	97	
PETN	40	48.869	122	
RDX	40	40.155	100	
Tetryl	40	38.51	96	
m-Dinitrobenzene	40	38.974	97	
m-Nitrotoluene	40	31.524	79	
o-Nitrotoluene	40	36.982	92	
p-Nitrotoluene	40	35.364	88	

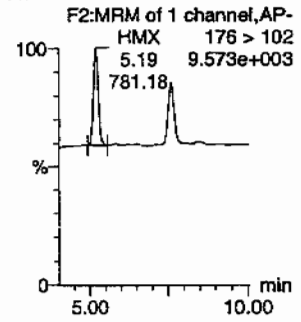
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

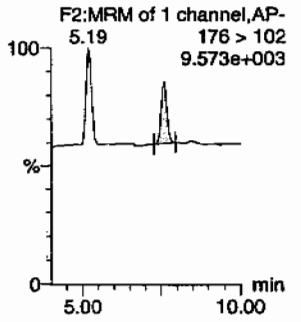
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208181a
Date: 12-Feb-2010
Time: 07:16:32
ID: WXX100211-08CRI
Vial: 1:1,C

Page 401 of 691

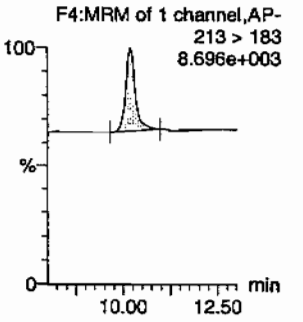
HMX



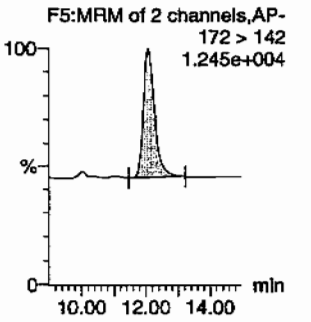
RDX



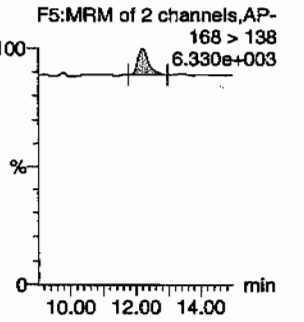
135-Trinitrobenzene



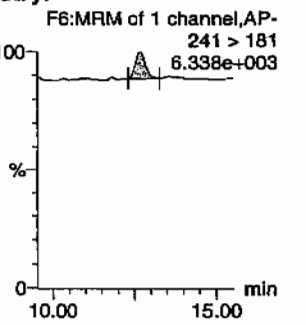
13-Dinitrobenzene-d4



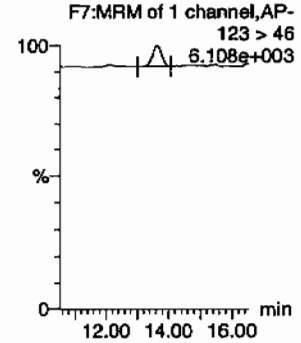
13-Dinitrobenzene



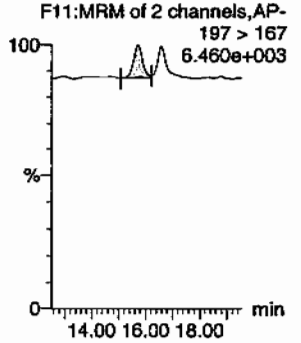
Tetryl



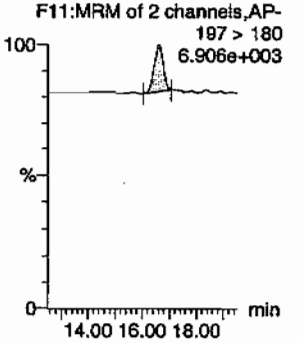
Nitrobenzene



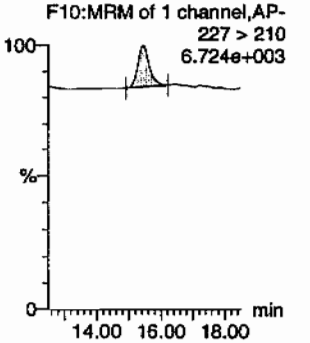
4-Amino-26-dinitrotoluene



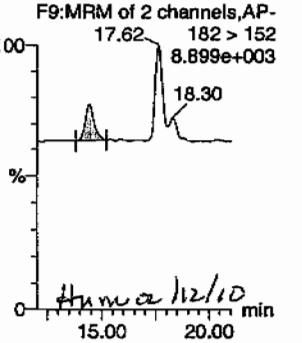
2-Amino-46-dinitrotoluene



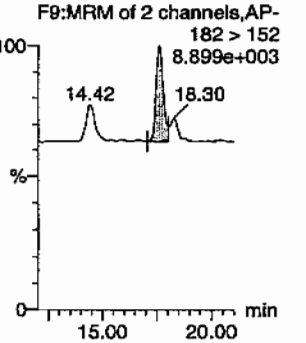
246-Trinitrotoluene



34-dinitrotoluene

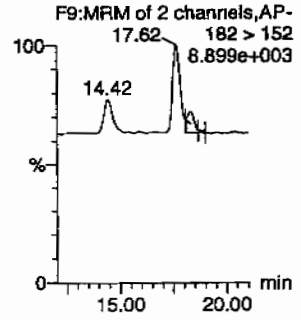


26-dinitrotoluene

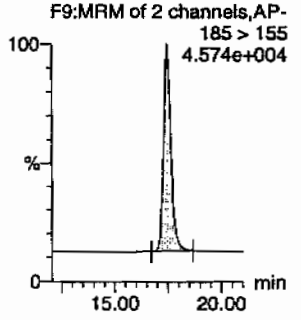


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

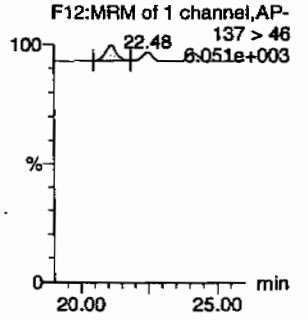
24-dinitrotoluene



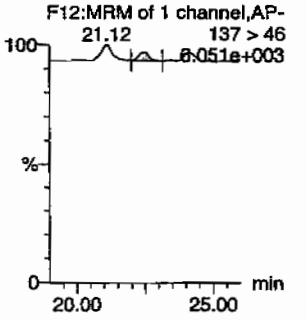
26-dinitrotoluene-d3



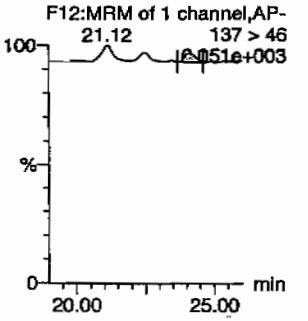
2-Nitrotoluene



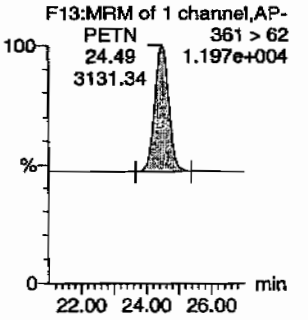
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100211-08CRI	HMX	176 > 102	5.19	781.177	2821.884	781.177	138.414	bb			39.8566	99.6	-0.4	330.6
WXX100211-08CRI	RDX	176 > 102	7.61	550.278	2821.884	550.278	97.502	bb			40.1549	100.4	0.4	210.1
WXX100211-08CRI	135-Trinitrobenzene	213 > 183	10.20	914.840	2821.884	914.840	162.097	bb			44.0117	110.0	10.0	114.8
WXX100211-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	2821.884		2821.884	2821.884	bb			438.9204	87.8	-12.2	126.3
WXX100211-08CRI	13-Dinitrobenzene	168 > 138	12.21	264.481	2821.884	264.481	46.862	bb			38.9743	97.4	-2.6	18.2
WXX100211-08CRI	Tetryl	241 > 181	12.68	253.485	2821.884	253.485	44.914	bb			38.5101	96.3	-3.7	23.7
WXX100211-08CRI	Nitrobenzene	123 > 46	13.62	176.851	2821.884	176.851	31.336	bb			38.7927	97.0	-3.0	19.1
WXX100211-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	338.056	16342.797	338.056	10.343	MM	12-Feb-10	08:01:18	36.0064	90.0	-10.0	17.2
WXX100211-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.60	478.583	16342.797	478.583	14.642	bb			36.9720	92.4	-7.6	39.1
WXX100211-08CRI	246-Trinitrotoluene	227 > 210	15.45	450.624	16342.797	450.624	13.787	bb			42.7276	106.8	6.8	19.3
WXX100211-08CRI	34-dinitrotoluene	182 > 152	14.42	596.692	16342.797	596.692	18.256	bb			20.2841	101.4	1.4	43.6
WXX100211-08CRI	26-dinitrotoluene	182 > 152	17.62	1302.923	16342.797	1302.923	39.862	MM	12-Feb-10	08:06:11	37.1127	92.8	-7.2	114.1
WXX100211-08CRI	24-dinitrotoluene	182 > 152	18.30	337.100	16342.797	337.100	10.313	MM	12-Feb-10	08:06:28	42.2592	105.6	5.6	28.0
WXX100211-08CRI	26-dinitrotoluene-d3	185 > 155	17.47	16342.797		16342.797	16342.797	bb			442.6619	88.5	-11.5	1289.8
WXX100211-08CRI	2-Nitrotoluene	137 > 46	21.12	187.421	16342.797	187.421	5.734	bb			36.9824	92.5	-7.5	44.6
WXX100211-08CRI	4-Nitrotoluene	137 > 46	22.48	87.852	16342.797	87.852	2.688	bb			35.3644	88.4	-11.6	23.0
WXX100211-08CRI	3-Nitrotoluene	137 > 46	24.12	96.001	16342.797	96.001	2.937	bb			31.5237	78.8	-21.2	24.1
WXX100211-08CRI	PETN	361 > 62	24.49	3131.342	16342.797	3131.342	95.802	bb			48.8685	122.2	22.2	1383.8

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/12/10
Time of Injection	0716
Standard Number	WXX100211-08CRI
Data File	EXP0208181a

HMX		99.6
RDX		100.4
135-TNB		110.0
13-DNB		97.4
Tetryl		96.3
Nitrobenzene		97.0
4A-26-DNT		90.0
2A-46-DNT		92.4
246-TNT		106.8
34-DNT(surr)		101.4
26-DNT		92.8
24-DNT		105.6
2-NT		92.5
4-NT		88.4
3-NT		78.8
PETN		122.2
Total		1571.6
Average		98.2

AWP 2/12/10

thm on 2/12/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXP0208192a **Analysis Date:** 12-FEB-10 12:41

LCMSMS ID: 903 **Column ID** Phenomenex Ultracarb 5u ODS(20)

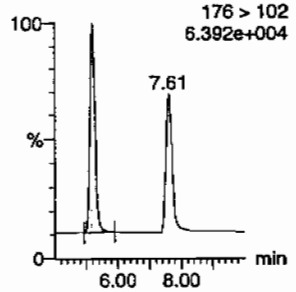
Compound	True	Found	Recovery	Q
HMX	600	564.023	94	
Nitrobenzene	600	588.695	98	
PETN	600	747.991	125	*
RDX	600	606.121	101	
Tetryl	600	602.12	100	
m-Dinitrobenzene	600	601.495	100	
m-Nitrotoluene	600	572.783	95	
o-Nitrotoluene	600	603.62	101	
p-Nitrotoluene	600	632.671	105	
1,3,5-Trinitrobenzene	600	579.335	97	
1,3-Dinitrobenzene-d4	500	455.62	91	
2,4,6-Trinitrotoluene	600	762.635	127	*
2,4-Dinitrotoluene	600	680.358	113	
2,6-Dinitrotoluene	600	624.359	104	
2,6-Dinitrotoluene-d3	500	419.676	84	
2-Amino-4,6-dinitrotoluene	600	687.213	115	
3,4-Dinitrotoluene	300	326.396	109	
4-Amino-2,6-dinitrotoluene	600	642.053	107	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

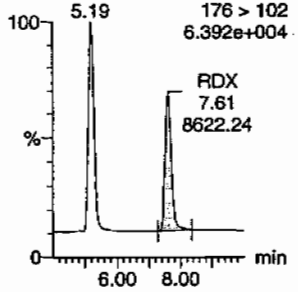
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208192a
Date: 12-Feb-2010
Time: 12:41:56
ID: WXX100211-07CCV
Vial: 1:1,B

MM 2/13/10

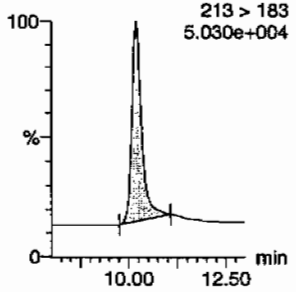
HMX



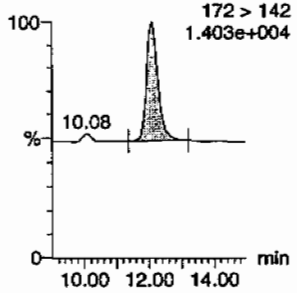
RDX



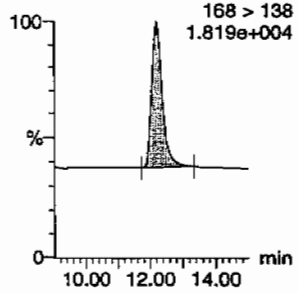
135-Trinitrobenzene



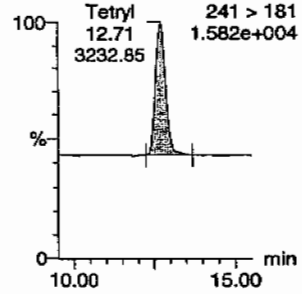
13-Dinitrobenzene-d4



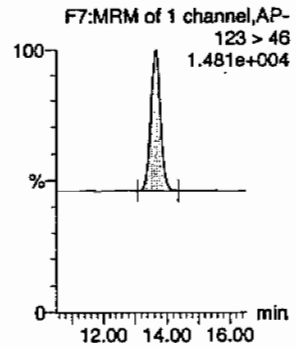
13-Dinitrobenzene



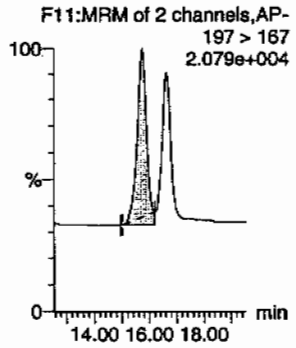
Tetryl



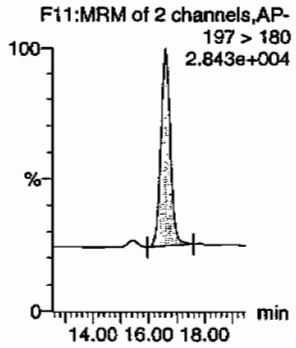
Nitrobenzene



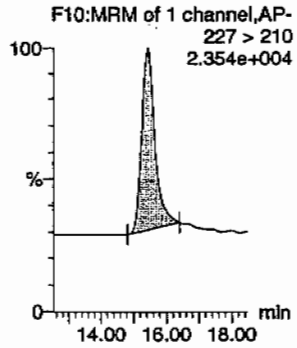
4-Amino-26-dinitrotoluene



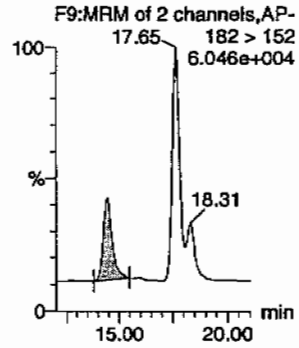
2-Amino-46-dinitrotoluene



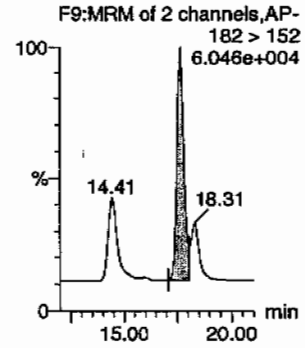
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

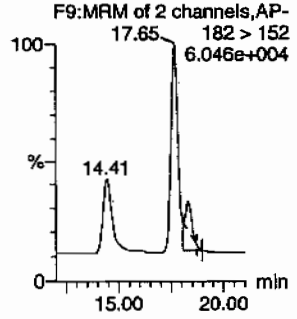


HMM 02/13/10

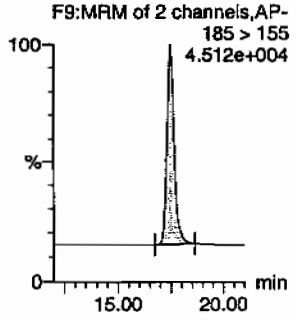
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

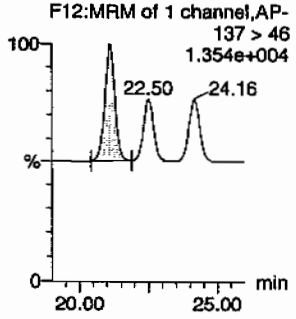
24-dinitrotoluene



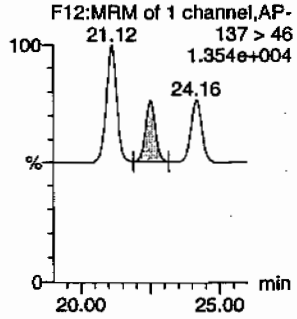
26-dinitrotoluene-d3



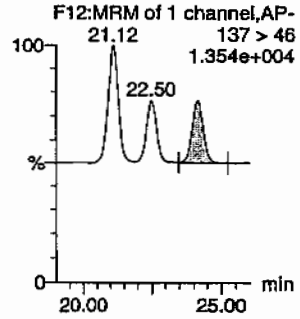
2-Nitrotoluene



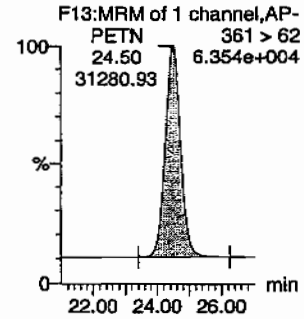
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100211-07CCV	HMX	176 > 102	5.19	11475.284	2929.250	11475.284	1958.741	db			564.0230	94.0	-6.0	1104.0
WXX100211-07CCV	RDX	176 > 102	7.61	8622.236	2929.250	8622.236	1471.748	bb			606.1208	101.0	1.0	721.7
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.21	12500.419	2929.250	12500.419	2133.723	bb			579.3351	96.6	-3.4	2459.6
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.10	2929.250		2929.250	2929.250	bb			455.6203	91.1	-8.9	197.3
WXX100211-07CCV	13-Dinitrobenzene	168 > 138	12.20	4237.073	2929.250	4237.073	723.235	bb			601.4952	100.2	0.2	417.8
WXX100211-07CCV	Tetryl	241 > 181	12.71	3232.850	2929.250	3232.850	551.822	bb			602.1200	100.4	0.4	271.2
WXX100211-07CCV	Nitrobenzene	123 > 46	13.66	2785.898	2929.250	2785.898	475.531	bb			588.6954	98.1	-1.9	223.5
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.73	5715.073	15494.170	5715.073	184.427	MM	13-Feb-10	09:20:30	642.0533	107.0	7.0	270.2
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.62	8433.699	15494.170	8433.699	272.157	bb			687.2130	114.5	14.5	421.0
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.44	7625.437	15494.170	7625.437	246.074	bb			762.6354	127.1	27.1	224.2
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.41	9102.950	15494.170	9102.950	293.754	bb			326.3963	108.8	8.8	411.4
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.65	20781.283	15494.170	20781.283	670.616	MM	13-Feb-10	09:24:45	624.3588	104.1	4.1	1180.1
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.31	5145.382	15494.170	5145.382	166.043	MM	13-Feb-10	09:27:53	680.3585	113.4	13.4	273.9
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.48	15494.170		15494.170	15494.170	bb			419.6760	83.9	-16.1	1197.5
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.12	2900.203	15494.170	2900.203	93.590	bb			603.6196	100.6	0.6	508.3
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.50	1490.065	15494.170	1490.065	48.085	bb			632.6714	105.4	5.4	267.4
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.16	1653.753	15494.170	1653.753	53.367	bb			572.7833	95.5	-4.5	270.1
WXX100211-07CCV	PETN	361 > 62	24.50	31280.934	15494.170	31280.934	1009.442	bb			747.9914	124.7	24.7	6999.1

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/12/10
Time of Injection: 1241
Standard Number: WXX100211-07CCV
Data File: EXP0208192a

HMX	94.0
RDX	101.0
135-TNB	96.6
13-DNB	100.2
Tetryl	100.4
Nitrobenzene	98.1
4A-26-DNT	107.0
2A-46-DNT	114.5
246-TNT	127.1
34-DNT(surr)	108.8
26-DNT	104.1
24-DNT	113.4
2-NT	100.6
4-NT	105.4
3-NT	95.5
PETN	124.7
Total	1691.4
Average	105.7

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208194a **Analysis Date:** 12-FEB-10 13:40

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

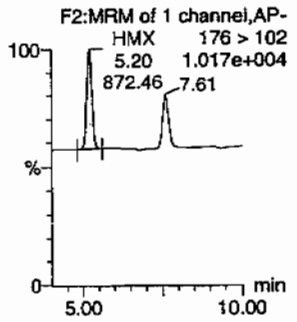
Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	448.123	90	
2-Amino-4,6-dinitrotoluene	40	35.812	90	
3,4-Dinitrotoluene	20	22.544	113	
4-Amino-2,6-dinitrotoluene	40	35.549	89	
HMX	40	41.613	104	
Nitrobenzene	40	42.541	106	
PETN	40	46.553	116	
RDX	40	36.544	91	
Tetryl	40	28.746	72	
m-Dinitrobenzene	40	44.616	112	
m-Nitrotoluene	40	34.967	87	
o-Nitrotoluene	40	35.126	88	
p-Nitrotoluene	40	40.053	100	
1,3,5-Trinitrobenzene	40	45.517	114	
1,3-Dinitrobenzene-d4	500	469.519	94	
2,4,6-Trinitrotoluene	40	55.709	139	*
2,4-Dinitrotoluene	40	40.988	102	
2,6-Dinitrotoluene	40	42.306	106	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

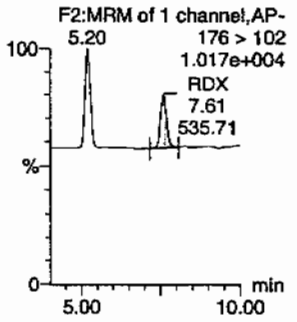
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208194a
Date: 12-Feb-2010
Time: 13:40:57
ID: WXX100211-08CRi
Vial: 1:1,C

MMT 2/13/10

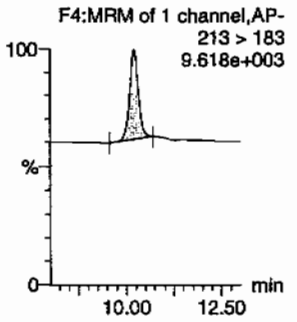
HMX



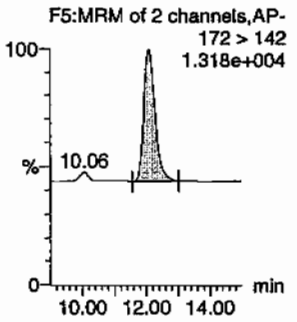
RDX



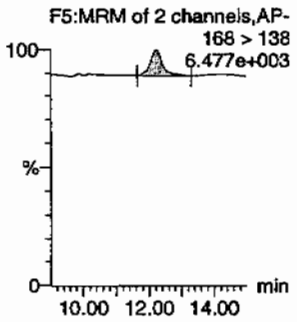
135-Trinitrobenzene



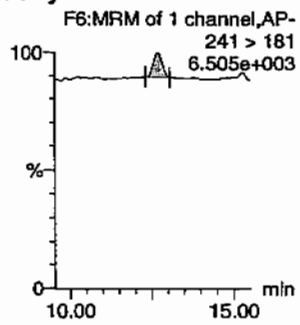
13-Dinitrobenzene-d4



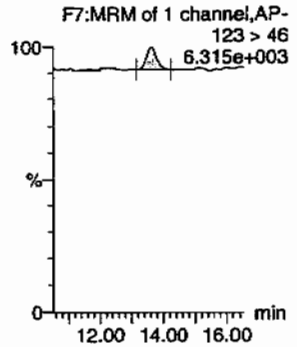
13-Dinitrobenzene



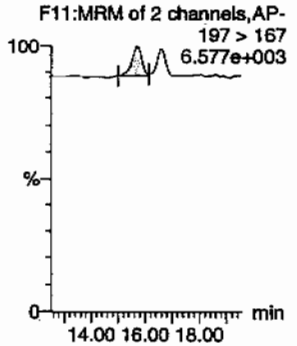
Tetryl



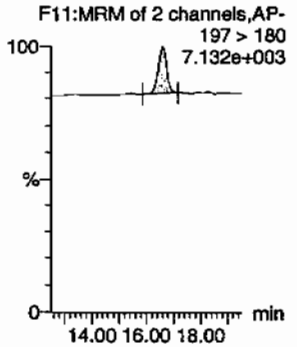
Nitrobenzene



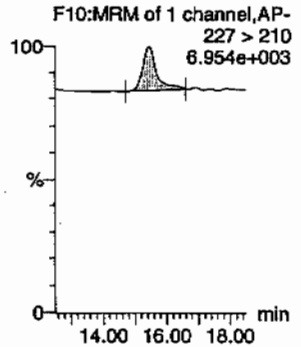
4-Amino-26-dinitrotoluene



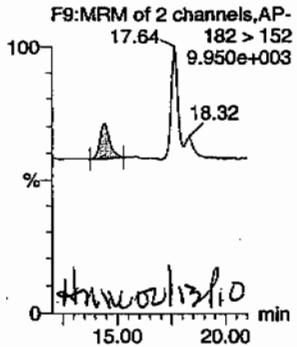
2-Amino-46-dinitrotoluene



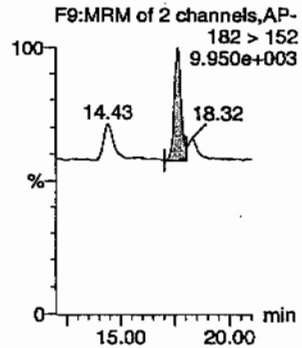
246-Trinitrotoluene



34-dinitrotoluene



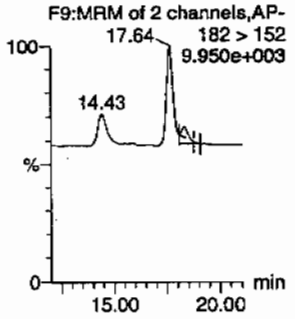
26-dinitrotoluene



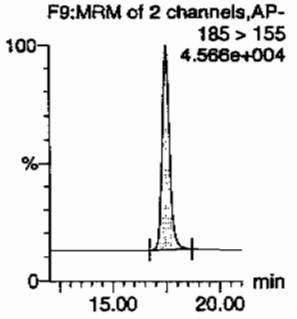
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

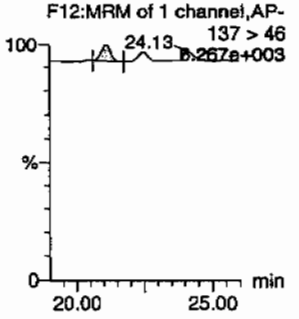
24-dinitrotoluene



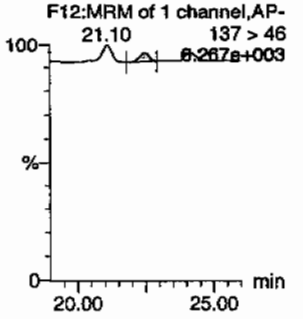
26-dinitrotoluene-d3



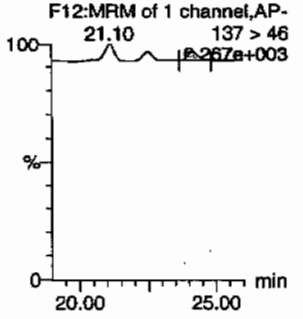
2-Nitrotoluene



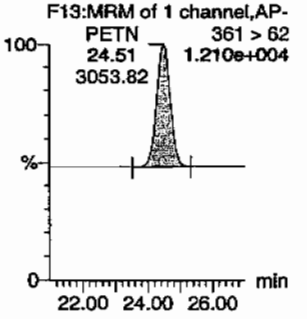
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100211-08CRI	HMX	176 > 102	5.20	872.460	3018.608	872.460	144.514	bb			41.6130	104.0	4.0	136.9
WXX100211-08CRI	RDX	176 > 102	7.61	535.712	3018.608	535.712	88.735	bb			36.5444	91.4	-8.6	73.0
WXX100211-08CRI	135-Trinitrobenzene	213 > 183	10.20	1012.093	3018.608	1012.093	167.642	bb			45.5172	113.8	13.8	222.1
WXX100211-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	3018.608		3018.608	3018.608	bb			469.5192	93.9	-6.1	271.9
WXX100211-08CRI	13-Dinitrobenzene	168 > 138	12.24	323.873	3018.608	323.873	53.646	bb			44.6160	111.5	11.5	48.0
WXX100211-08CRI	Tetryl	241 > 181	12.68	214.825	3018.608	214.825	35.583	bb			28.7462	71.9	-28.1	38.1
WXX100211-08CRI	Nitrobenzene	123 > 46	13.63	207.461	3018.608	207.461	34.364	bb			42.5414	106.4	6.4	18.2
WXX100211-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	337.881	16544.398	337.881	10.211	MM	13-Feb-10	09:20:36	35.5492	88.9	-11.1	15.9
WXX100211-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.60	469.280	16544.398	469.280	14.182	bb			35.8115	89.5	-10.5	49.9
WXX100211-08CRI	246-Trinitrotoluene	227 > 210	15.45	594.783	16544.398	594.783	17.975	bb			55.7094	139.3	39.3	43.7
WXX100211-08CRI	34-dinitrotoluene	182 > 152	14.43	671.349	16544.398	671.349	20.289	bb			22.5439	112.7	12.7	59.4
WXX100211-08CRI	26-dinitrotoluene	182 > 152	17.64	1503.567	16544.398	1503.567	45.440	MM	13-Feb-10	09:24:36	42.3060	105.8	5.8	191.5
WXX100211-08CRI	24-dinitrotoluene	182 > 152	18.32	330.995	16544.398	330.995	10.003	MM	13-Feb-10	09:28:10	40.9882	102.5	2.5	32.9
WXX100211-08CRI	26-dinitrotoluene-d3	185 > 155	17.49	16544.398		16544.398	16544.398	bb			448.1225	89.6	-10.4	1121.6
WXX100211-08CRI	2-Nitrotoluene	137 > 46	21.10	180.211	16544.398	180.211	5.446	bb			35.1264	87.8	-12.2	70.7
WXX100211-08CRI	4-Nitrotoluene	137 > 46	22.48	100.726	16544.398	100.726	3.044	bb			40.0527	100.1	0.1	37.4
WXX100211-08CRI	3-Nitrotoluene	137 > 46	24.13	107.801	16544.398	107.801	3.258	bb			34.9671	87.4	-12.6	36.3
WXX100211-08CRI	PETN	361 > 62	24.51	3053.823	16544.398	3053.823	92.292	bb			46.5526	116.4	16.4	569.5

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/12/10
Time of Injection	1340
Standard Number	WXX100211-08CRI
Data File	EXP0208194a

HMX		104.0
RDX		91.4
135-TNB		113.8
13-DNB		111.5
Tetryl		71.9
Nitrobenzene		106.4
4A-26-DNT		88.9
2A-46-DNT		89.5
246-TNT		139.3
34-DNT(surr)		112.7
26-DNT		105.8
24-DNT		102.5
2-NT		87.8
4-NT		100.1
3-NT		87.4
PETN		116.4
	Total	1629.4
	Average	101.8

MAT 2/13/10

Hmx 02/13/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1432

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208204a

Analysis Date: 12-FEB-10 18:36

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

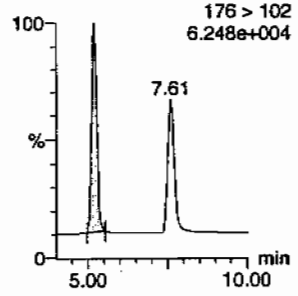
Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	573.104	96	
1,3-Dinitrobenzene-d4	500	406.534	81	
2,4,6-Trinitrotoluene	600	676.945	113	
2,4-Dinitrotoluene	600	732.781	122	*
2,6-Dinitrotoluene	600	616.675	103	
2,6-Dinitrotoluene-d3	500	391.437	78	*
2-Amino-4,6-dinitrotoluene	600	635.563	106	
3,4-Dinitrotoluene	300	328.615	110	
4-Amino-2,6-dinitrotoluene	600	609.488	102	
HMX	600	608.517	101	
Nitrobenzene	600	610.084	102	
PETN	600	833.891	139	*
RDX	600	650.563	108	
Tetryl	600	631.091	105	
m-Dinitrobenzene	600	614.184	102	
m-Nitrotoluene	600	625.894	104	
o-Nitrotoluene	600	613.904	102	
p-Nitrotoluene	600	627.116	105	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

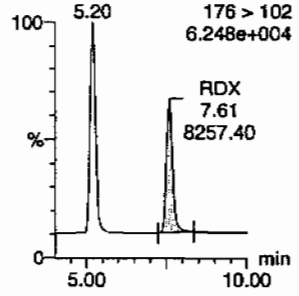
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208204a
Date: 12-Feb-2010
Time: 18:36:13
ID: WXX100211-07CCV
Vial: 1:1,B

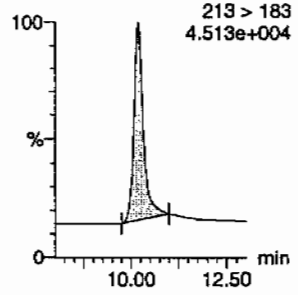
HMX



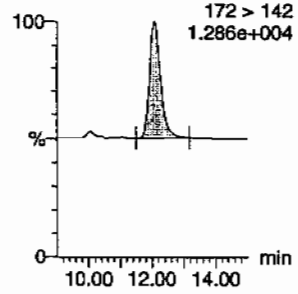
RDX



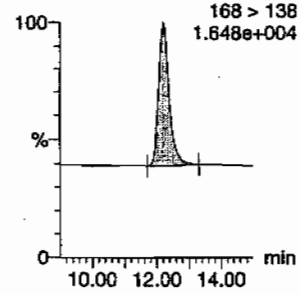
135-Trinitrobenzene



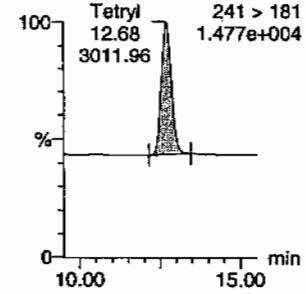
13-Dinitrobenzene-d4



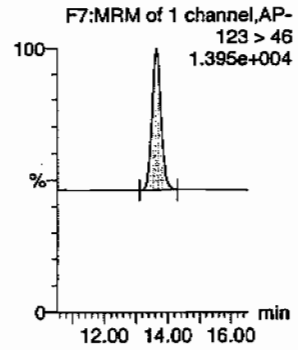
13-Dinitrobenzene



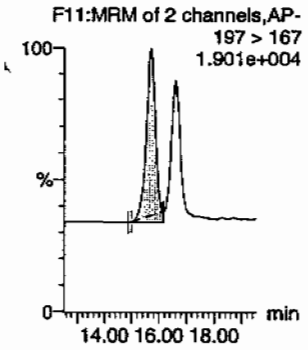
Tetryl



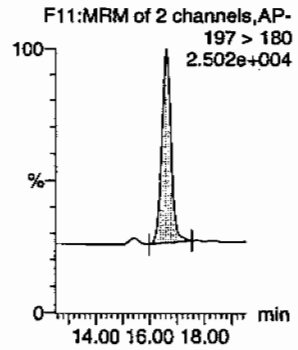
Nitrobenzene



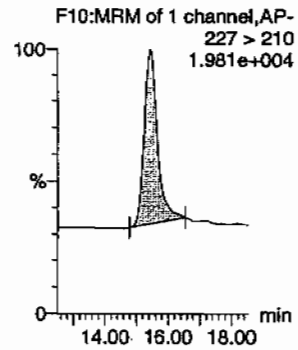
4-Amino-26-dinitrotoluene



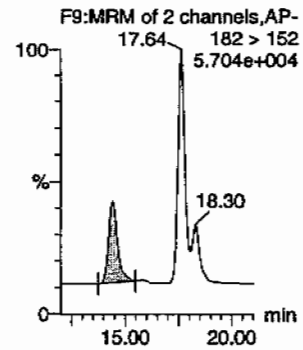
2-Amino-46-dinitrotoluene



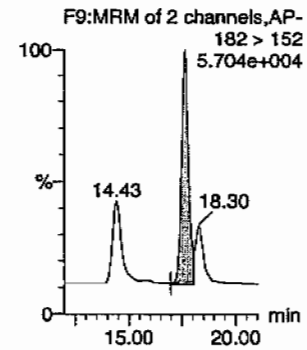
246-Trinitrotoluene



34-dinitrotoluene

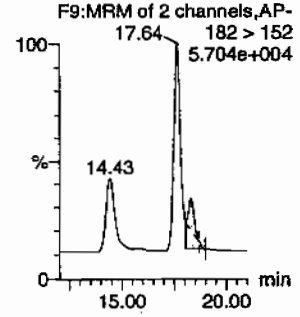


26-dinitrotoluene

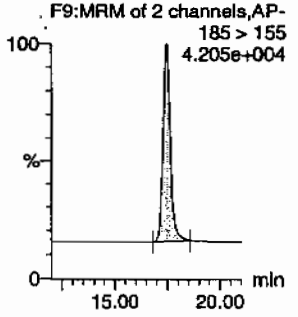


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

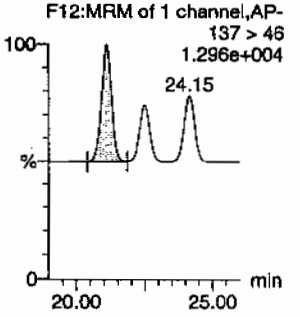
24-dinitrotoluene



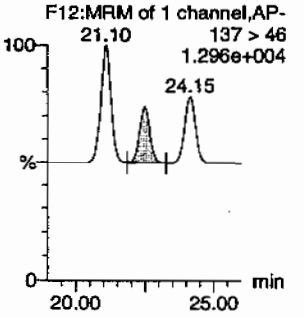
26-dinitrotoluene-d3



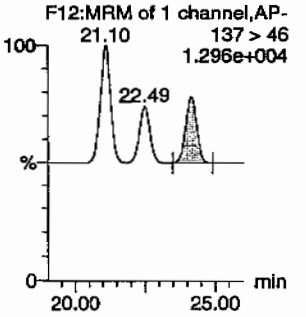
2-Nitrotoluene



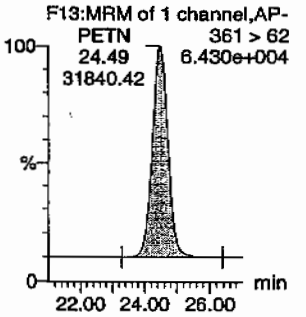
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100211-07CCV	HMX	176 > 102	5.20	11046.710	2613.664	11046.710	2113.261	bb			608.5174	101.4	1.4	1850.2
WXX100211-07CCV	RDX	176 > 102	7.61	8257.402	2613.664	8257.402	1579.660	bb			650.5630	108.4	8.4	1173.8
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.20	11033.706	2613.664	11033.706	2110.774	bb			573.1039	95.5	-4.5	1230.4
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	2613.664		2613.664	2613.664	bb			406.5335	81.3	-18.7	438.4
WXX100211-07CCV	13-Dinitrobenzene	168 > 138	12.21	3860.341	2613.664	3860.341	738.492	bb			614.1841	102.4	2.4	621.9
WXX100211-07CCV	Tetryl	241 > 181	12.68	3011.958	2613.664	3011.958	576.195	bb			631.0910	105.2	5.2	296.6
WXX100211-07CCV	Nitrobenzene	123 > 46	13.63	2576.068	2613.664	2576.068	492.808	bb			610.0837	101.7	1.7	230.2
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.71	5060.151	14451.611	5060.151	175.072	MM	13-Feb-10	09:20:50	609.4876	101.6	1.6	80.1
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.60	7275.005	14451.611	7275.005	251.702	bb			635.5630	105.9	5.9	345.7
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.45	6313.196	14451.611	6313.196	218.425	bb			676.9453	112.8	12.8	597.4
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.43	8548.145	14451.611	8548.145	295.751	bb			328.6147	109.5	9.5	549.8
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.64	19144.428	14451.611	19144.428	662.363	MM	13-Feb-10	09:24:27	616.6750	102.8	2.8	1576.9
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.30	5168.947	14451.611	5168.947	178.836	MM	13-Feb-10	09:28:28	732.7812	122.1	22.1	381.2
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.44	14451.611		14451.611	14451.611	bb			391.4372	78.3	-21.7	1564.2
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.10	2751.146	14451.611	2751.146	95.185	bb			613.9042	102.3	2.3	343.4
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.49	1377.598	14451.611	1377.598	47.662	bb			627.1155	104.5	4.5	165.5
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.15	1685.502	14451.611	1685.502	58.315	bb			625.8944	104.3	4.3	193.3
WXX100211-07CCV	PETN	361 > 62	24.49	31840.416	14451.611	31840.416	1101.622	bb			833.8909	139.0	39.0	8324.2

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

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

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 02/12/10
Time of Injection: 1836
Standard Number: WXX100211-07CCV
Data File: EXP0208204a

HMX		101.4
RDX		108.4
135-TNB		95.5
13-DNB		102.4
Tetryl		105.2
Nitrobenzene		101.7
4A-26-DNT		101.6
2A-46-DNT		105.9
246-TNT		112.8
34-DNT(surr)		109.5
26-DNT		102.8
24-DNT		122.1
2-NT		102.3
4-NT		104.5
3-NT		104.3
PETN		139.0
Total		1719.4
Average		107.5

2/13/10

2/13/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXP0208206a **Analysis Date:** 12-FEB-10 19:35

LCMSMS ID: 903 **Column ID:** Phenomenex Ultracarb 5u ODS(20)

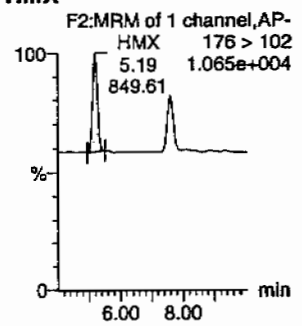
Compound	True	Found	Recovery	Q
o-Nitrotoluene	40	44.859	112	
p-Nitrotoluene	40	50.729	127	
1,3,5-Trinitrobenzene	40	51.365	128	
1,3-Dinitrobenzene-d4	500	423.168	85	
2,4,6-Trinitrotoluene	40	44.639	112	
2,4-Dinitrotoluene	40	35.699	89	
2,6-Dinitrotoluene	40	39.836	100	
2,6-Dinitrotoluene-d3	500	422.416	84	
2-Amino-4,6-dinitrotoluene	40	41.793	104	
3,4-Dinitrotoluene	20	20.845	104	
4-Amino-2,6-dinitrotoluene	40	37.746	94	
HMX	40	44.962	112	
Nitrobenzene	40	30.167	75	
PETN	40	59.642	149	*
RDX	40	40.853	102	
Tetryl	40	43.184	108	
m-Dinitrobenzene	40	41.433	104	
m-Nitrotoluene	40	55.505	139	*

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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

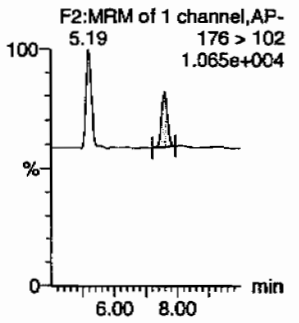
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208206a
Date: 12-Feb-2010
Time: 19:35:13
ID: WXX100211-08CRI
Vial: 1:1,C

MM 2/13/10

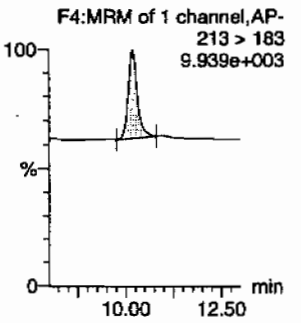
HMX



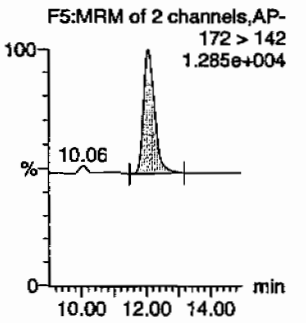
RDX



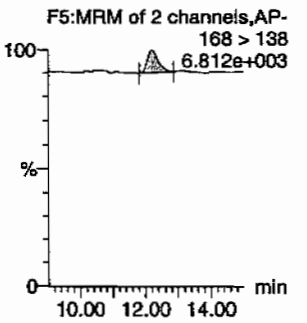
135-Trinitrobenzene



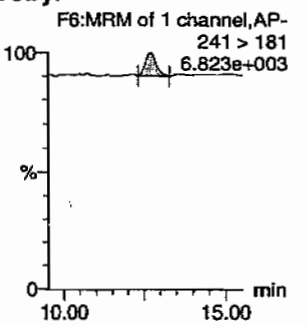
13-Dinitrobenzene-d4



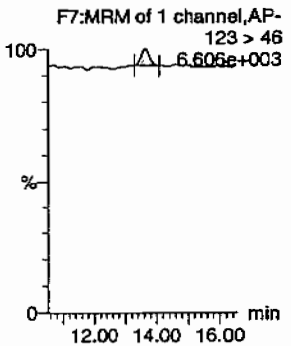
13-Dinitrobenzene



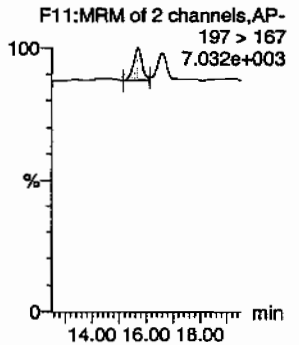
Tetryl



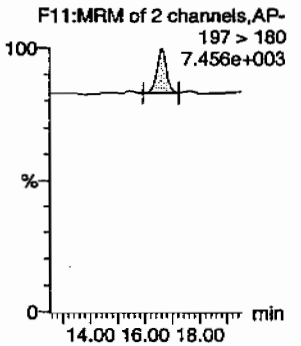
Nitrobenzene



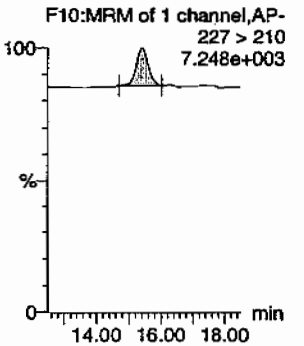
4-Amino-26-dinitrotoluene



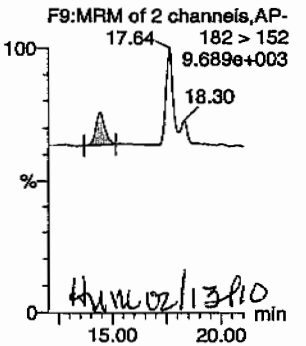
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

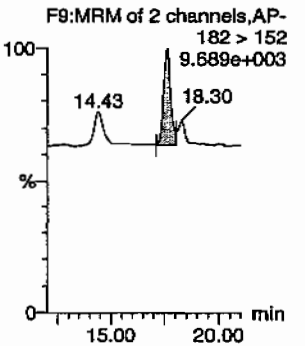


34-dinitrotoluene



HMM 02/13/10

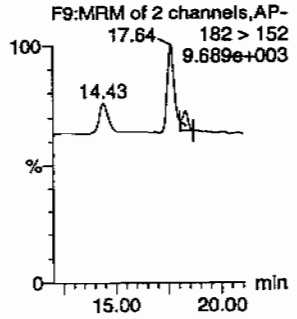
26-dinitrotoluene



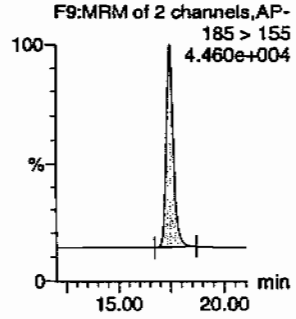
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

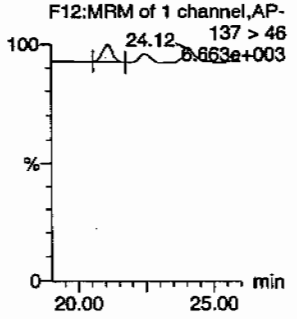
24-dinitrotoluene



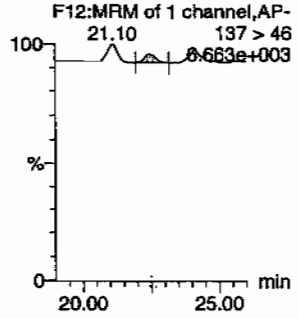
26-dinitrotoluene-d3



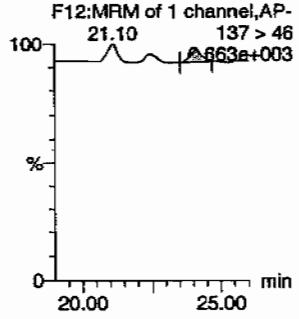
2-Nitrotoluene



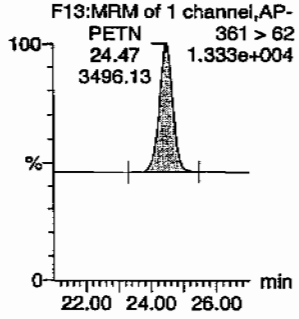
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100211-08CRI	HMX	176 > 102	5.19	849.611	2720.612	849.611	156.143	bb			44.9618	112.4	12.4	237.7
WXX100211-08CRI	RDX	176 > 102	7.60	539.750	2720.612	539.750	99.196	bb			40.8528	102.1	2.1	132.6
WXX100211-08CRI	135-Trinitrobenzene	213 > 183	10.19	1029.363	2720.612	1029.363	189.179	bb			51.3646	128.4	28.4	156.9
WXX100211-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	2720.612		2720.612	2720.612	bb			423.1684	84.6	-15.4	204.6
WXX100211-08CRI	13-Dinitrobenzene	168 > 138	12.21	271.075	2720.612	271.075	49.819	bb			41.4329	103.6	3.6	18.9
WXX100211-08CRI	Tetryl	241 > 181	12.73	268.655	2720.612	268.655	49.374	bb			43.1839	108.0	8.0	18.6
WXX100211-08CRI	Nitrobenzene	123 > 46	13.63	132.592	2720.612	132.592	24.368	bb			30.1670	75.4	-24.6	14.0
WXX100211-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	338.182	15595.316	338.182	10.842	MM	13-Feb-10	09:20:57	37.7463	94.4	-5.6	16.1
WXX100211-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.60	516.244	15595.316	516.244	16.551	bb			41.7929	104.5	4.5	52.9
WXX100211-08CRI	246-Trinitrotoluene	227 > 210	15.42	449.253	15595.316	449.253	14.403	bb			44.6393	111.6	11.6	40.0
WXX100211-08CRI	34-dinitrotoluene	182 > 152	14.43	585.154	15595.316	585.154	18.761	bb			20.8453	104.2	4.2	33.1
WXX100211-08CRI	26-dinitrotoluene	182 > 152	17.64	1334.560	15595.316	1334.560	42.787	MM	13-Feb-10	09:24:20	39.8359	99.6	-0.4	98.4
WXX100211-08CRI	24-dinitrotoluene	182 > 152	18.30	271.745	15595.316	271.745	8.712	MM	13-Feb-10	09:28:39	35.6990	89.2	-10.8	22.4
WXX100211-08CRI	26-dinitrotoluene-d3	185 > 155	17.44	15595.316		15595.316	15595.316	bb			422.4156	84.5	-15.5	1228.0
WXX100211-08CRI	2-Nitrotoluene	137 > 46	21.10	216.941	15595.316	216.941	6.955	bb			44.8591	112.1	12.1	79.5
WXX100211-08CRI	4-Nitrotoluene	137 > 46	22.45	120.257	15595.316	120.257	3.856	bb			50.7291	126.8	26.8	37.4
WXX100211-08CRI	3-Nitrotoluene	137 > 46	24.12	161.301	15595.316	161.301	5.171	bb			55.5048	138.8	38.8	52.5
WXX100211-08CRI	PETN	361 > 62	24.47	3496.129	15595.316	3496.129	112.089	bb			59.6419	149.1	49.1	1430.4

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

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

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	02/12/10
Time of Injection	1935
Standard Number	WXX100211-08CRI
Data File	EXP0208206a

HMX	112.4
RDX	102.1
135-TNB	128.4
13-DNB	103.6
Tetryl	108.0
Nitrobenzene	75.4
4A-26-DNT	94.4
2A-46-DNT	104.5
246-TNT	111.6
34-DNT(surr)	104.2
26-DNT	99.6
24-DNT	89.2
2-NT	112.1
4-NT	126.8
3-NT	138.8
PETN	149.1
Total	1760.2
Average	110.0

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10–1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXS02130013.wiff **Analysis Date:** 13–FEB–10 13:21

LCMSMS ID: 1358 **Column ID:** JSphere ODS–H80

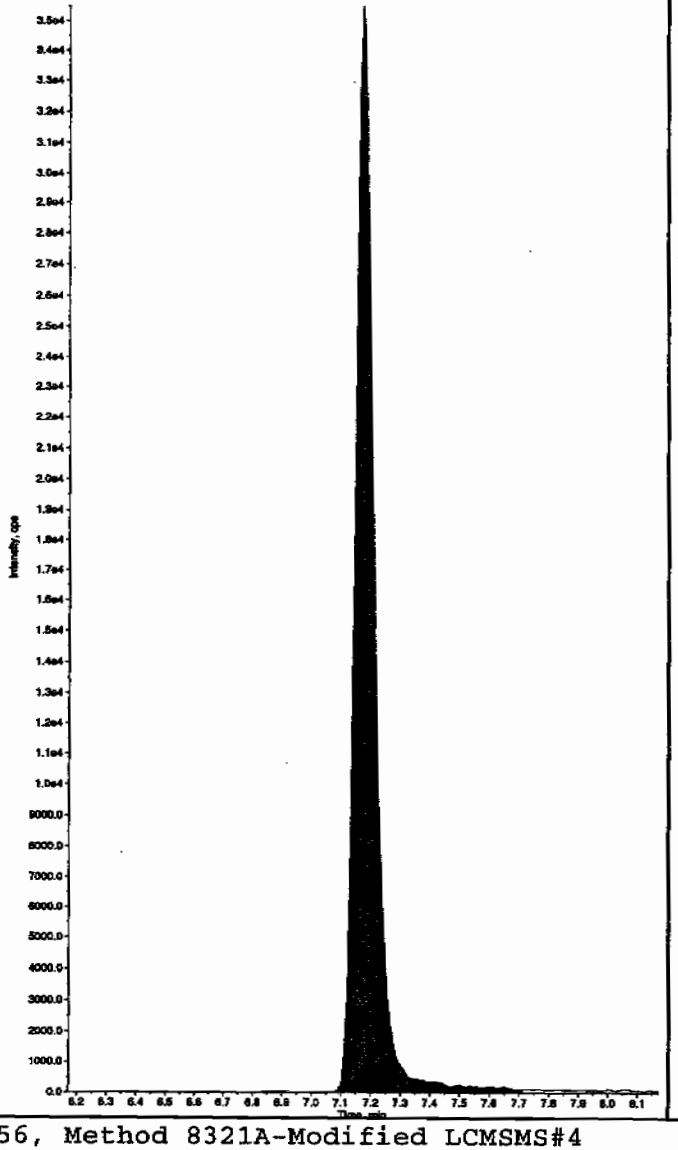
Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	100	114	114	
2,6–Diamino–4–nitrotoluene	100	111	111	
3,4–Dinitrotoluene	50	54.6	109	
3,5–Dinitroaniline	100	118	118	
TATB	100	106	106	
tris(o–cresyl) phosphate	100	105	105	

Recovery Limits:
3,4–Dinitrotoluene (Surrogate),TATB, tris(o–cresyl)phosphate, 3,5–Dinitroaniline, 2,6–Diamino–4–nitrotoluene ,
2,4–Diamino–6–nitrotoluene 50–150%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Before Run 2/15/10

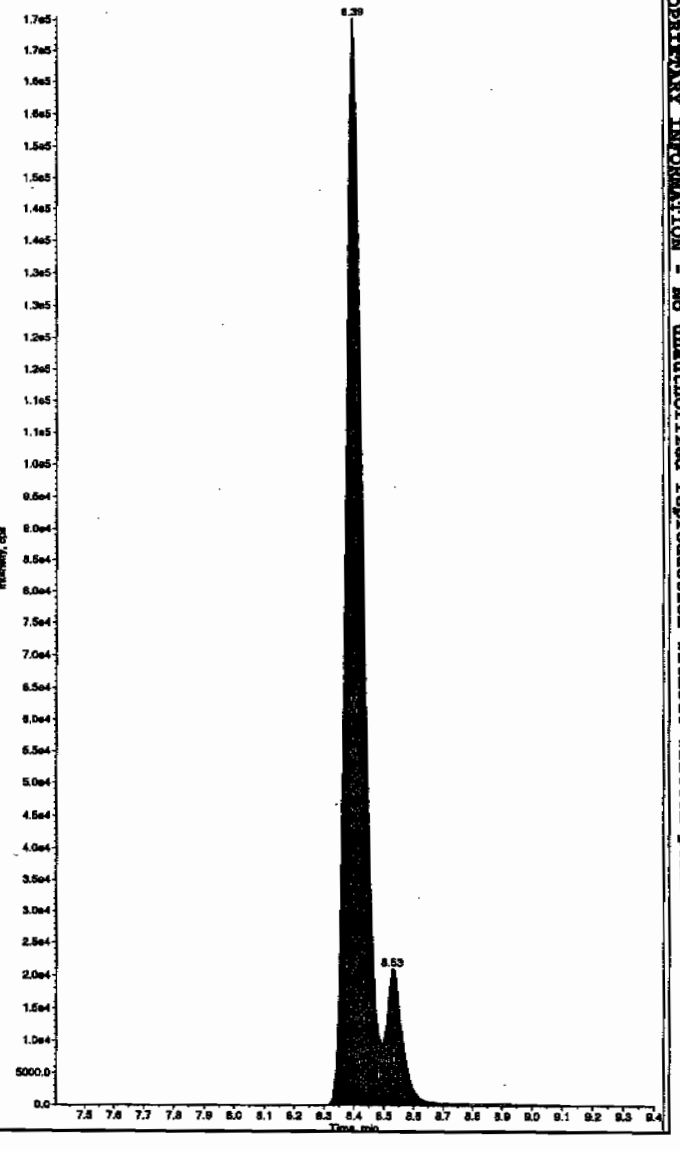
Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130013.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	106. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:21:17 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.17 min
Area:	1.64e+005 counts
Height:	35494.713 cps
Start Time:	7.03 min
End Time:	7.71 min



Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130013.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	132. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:21:17 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:	8.40 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.39 min
Area:	7.81e+005 counts
Height:	170448.990 cps
Start Time:	8.26 min
End Time:	8.78 min



Hmm 2/15/10

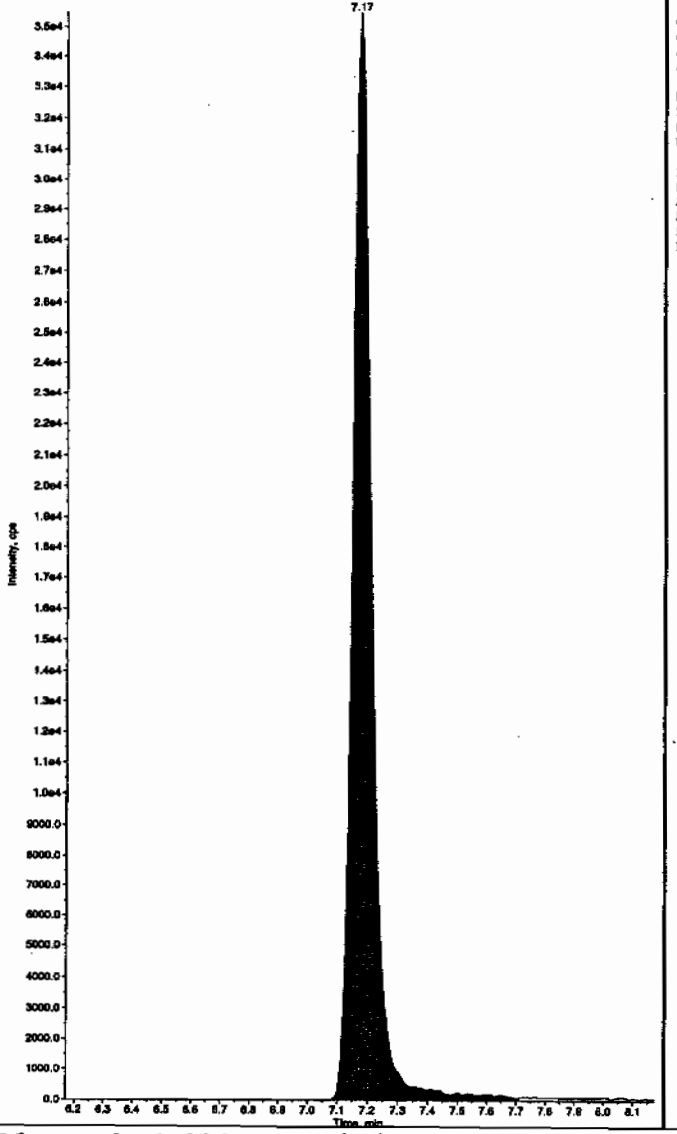
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

after Dan 2/15/10

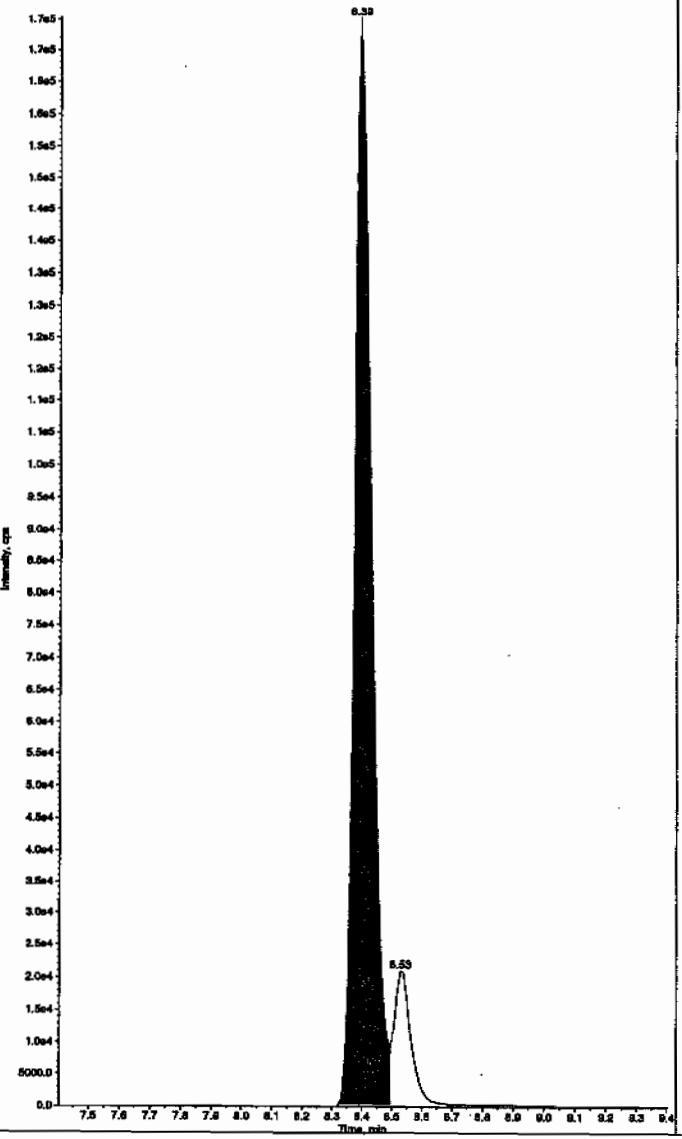
Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130013.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	106. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:21:17 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.17 min
Area:	1.64e+005 counts
Height:	35494.713 cps
Start Time:	7.03 min
End Time:	7.71 min



Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130013.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	118. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:21:17 PM
Modified:	Yes
RT Window:	15.0 sec
Expected RT:	8.40 min
Use Relative RT:	No
Int. Type:	Manual
Retention Time:	8.39 min
Area:	6.92e+005 counts
Height:	170158.882 cps
Start Time:	8.32 min
End Time:	8.50 min

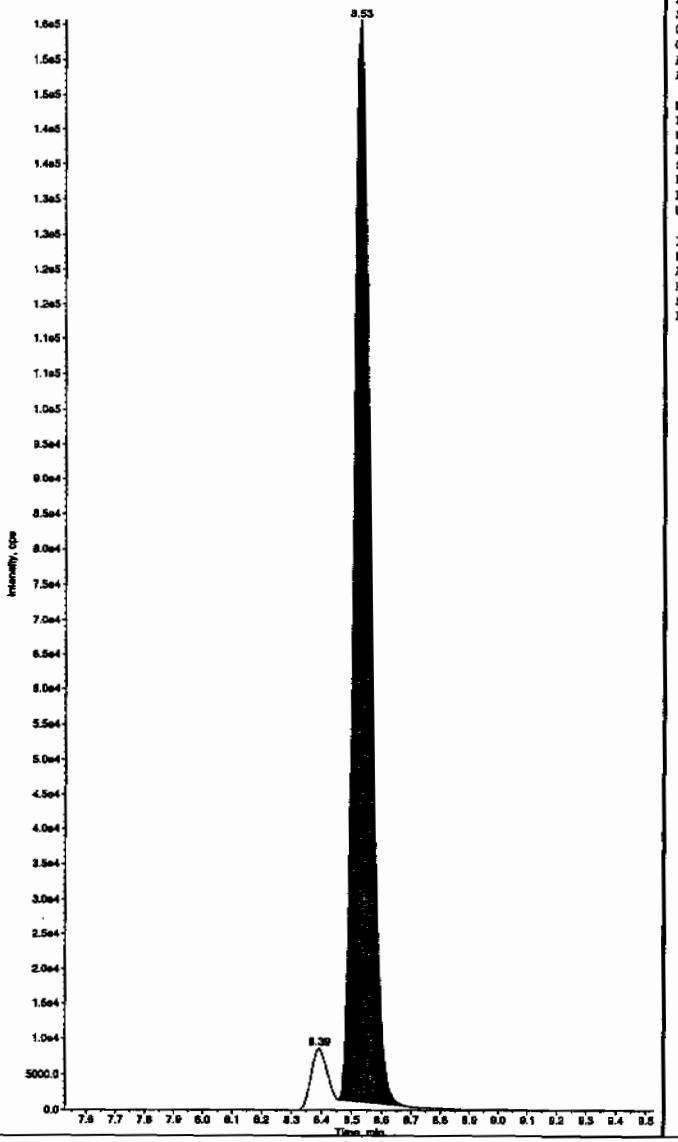


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

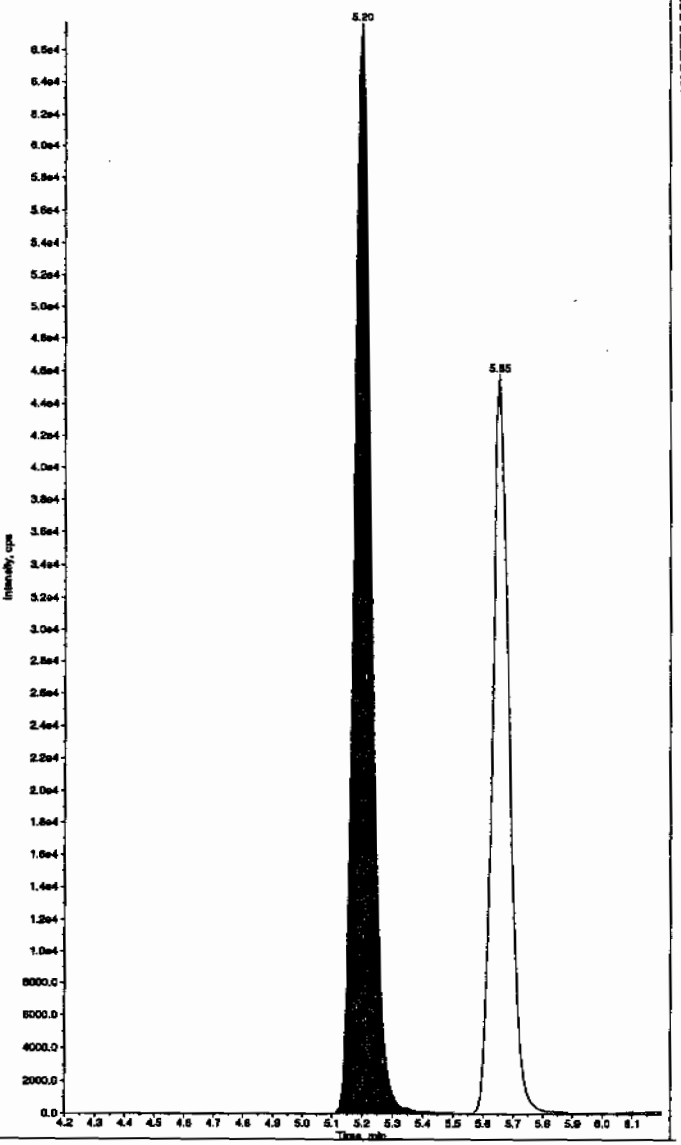
Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130013.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	50.0 ng/mL
Calculated Conc:	54.6 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:21:17 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:	8.53 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.53 min
Area:	6.21e+005 counts
Height:	154539.307 cps
Start Time:	8.45 min
End Time:	8.69 min



Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130013.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	111. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:21:17 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	450.00 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	5.20 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.20 min
Area:	2.78e+005 counts
Height:	67664.299 cps
Start Time:	5.08 min
End Time:	5.47 min

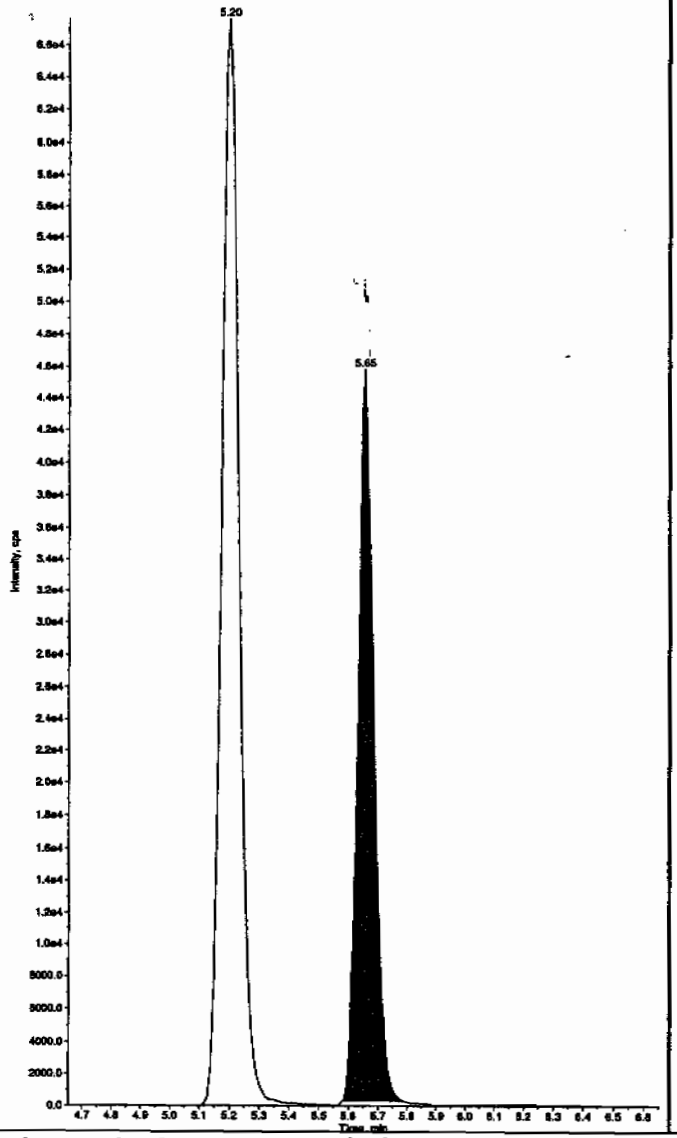


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

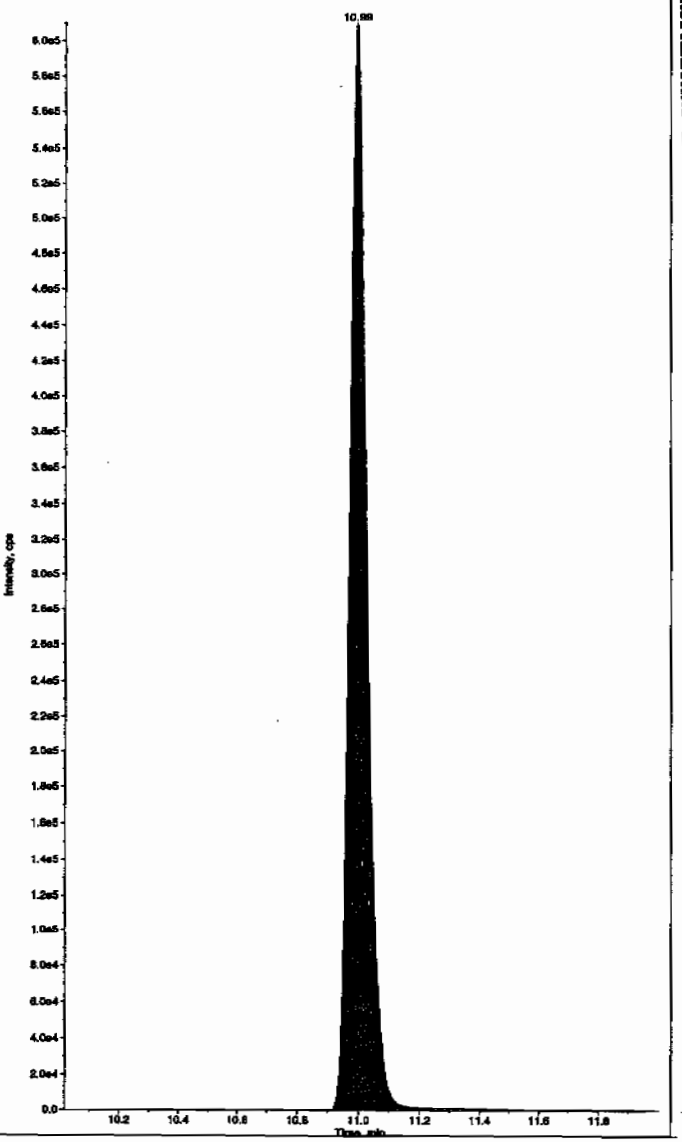
Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130013.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	100.	ng/mL
Calculated Conc:	114.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	1:21:17 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:	5.65	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	5.65	min
Area:	1.76e+005	counts
Height:	45553.951	cps
Start Time:	5.58	min
End Time:	5.79	min



Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130013.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	100.	ng/mL
Calculated Conc:	105.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	1:21:17 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	1.00e4	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	11.0	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	11.0	min
Area:	2.44e+006	counts
Height:	610304.504	cps
Start Time:	10.9	min
End Time:	11.3	min



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

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

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCCV

GEL Data File EXS02130024.wiff **Analysis Date:** 13-FEB-10 16:14

LCMSMS ID: 1358 **Column ID** JSphere ODS-H80

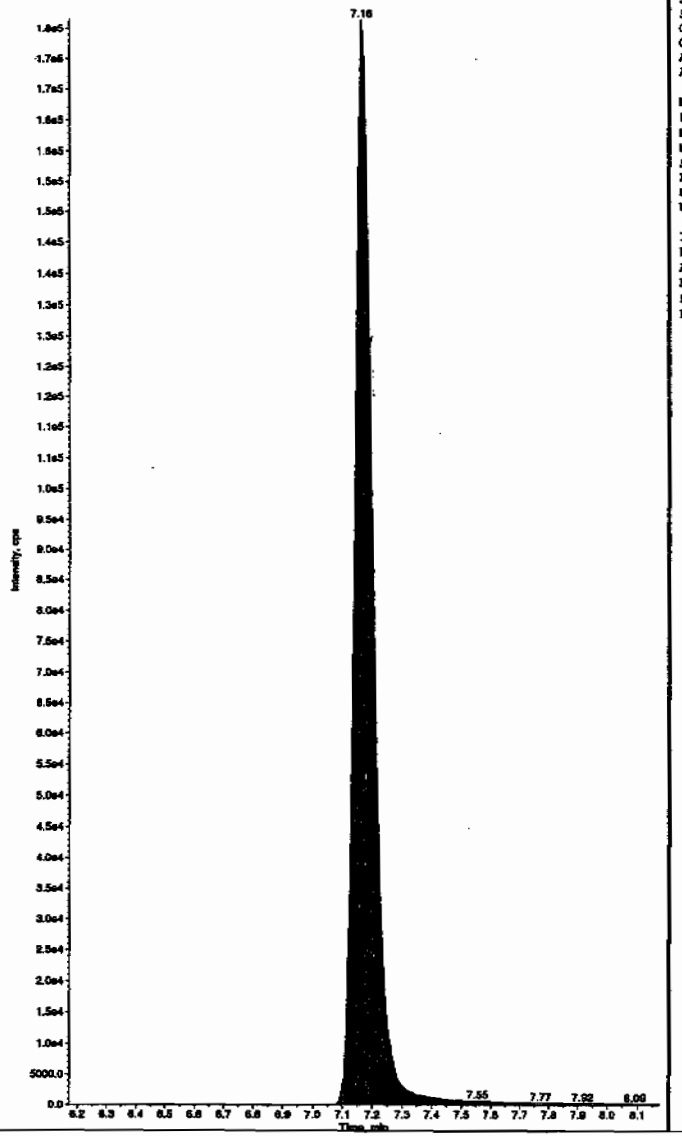
Compound	True	Found	Recovery	Q
2,6-Diamino-4-nitrotoluene	500	517	103	
3,4-Dinitrotoluene	250	268	107	
3,5-Dinitroaniline	500	576	115	
TATB	500	506	101	
tris(o-cresyl) phosphate	500	513	103	
2,4-Diamino-6-nitrotoluene	500	505	101	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Lan 2/15/10

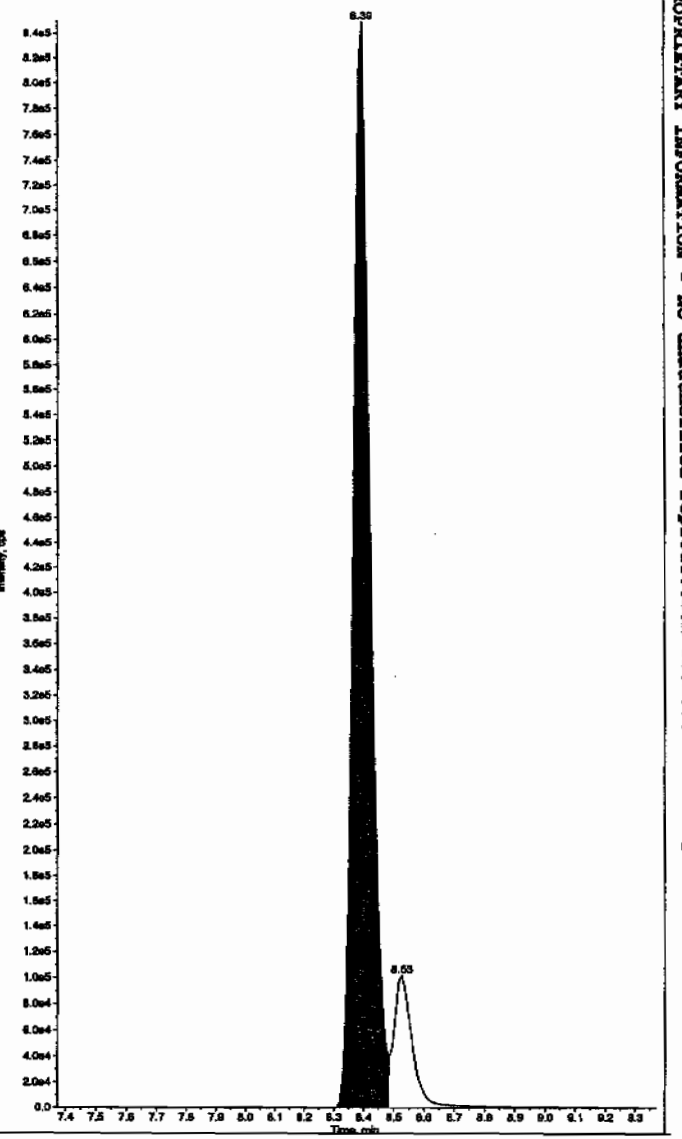
Sample Name: "WXX100213-26CCV" Sample ID: "1(1)LER" File: "EXS02130024.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	506.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:14:02 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:	7.17	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	7.16	min
Area:	7.86e+005	counts
Height:	176596.573	cps
Start Time:	7.03	min
End Time:	7.71	min



Sample Name: "WXX100213-26CCV" Sample ID: "1(1)LER" File: "EXS02130024.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	576.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:14:02 PM	
Modified:	Yes	
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:	8.37	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	8.39	min
Area:	3.47e+006	counts
Height:	850072.388	cps
Start Time:	8.29	min
End Time:	8.48	min



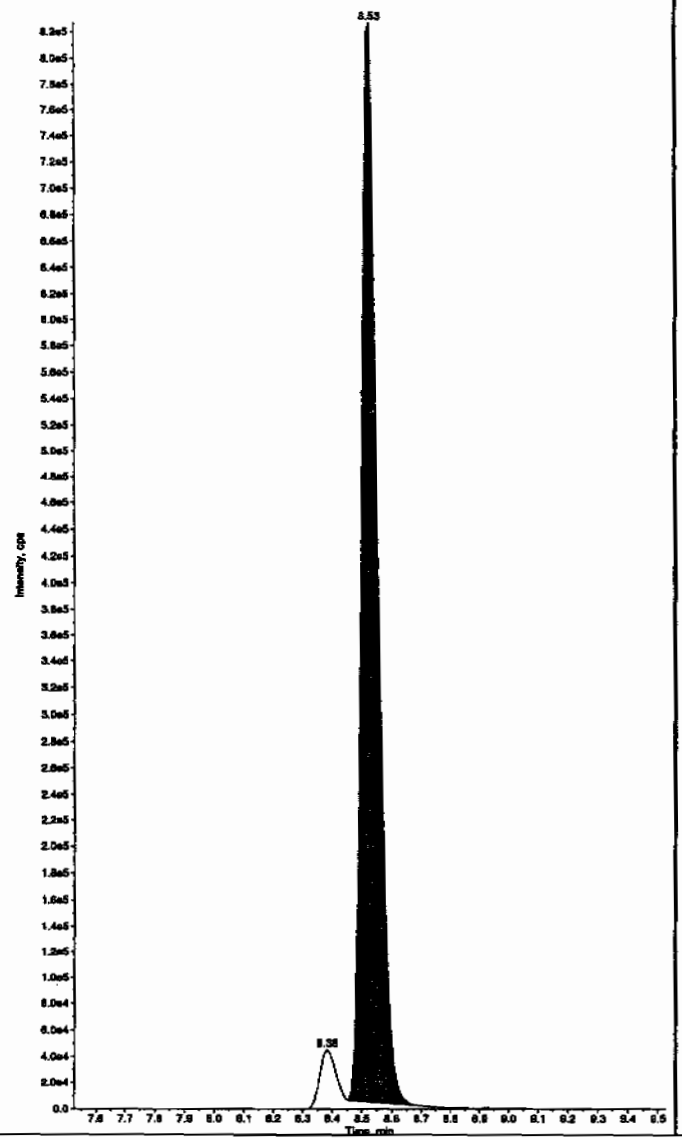
HMM 02/15/10

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

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

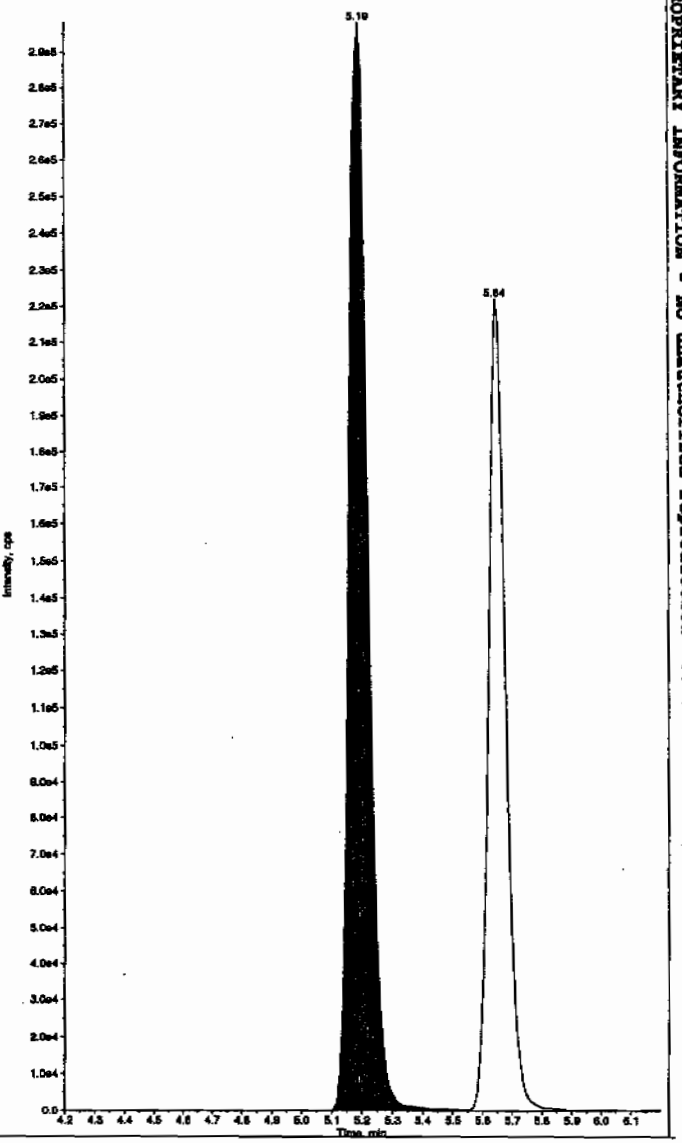
Sample Name: "WXX100213-26CCV" Sample ID: "[1]LER" File: "EXS02130024.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	250. ng/mL
Calculated Conc:	268. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	4:14:02 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:	8.53 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.53 min
Area:	3.18e+006 counts
Height:	821762.817 cps
Start Time:	8.45 min
End Time:	8.69 min



Sample Name: "WXX100213-26CCV" Sample ID: "[1]LER" File: "EXS02130024.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	500. ng/mL
Calculated Conc:	517. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	4:14:02 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	450.00 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	5.20 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.19 min
Area:	1.35e+006 counts
Height:	298130.981 cps
Start Time:	5.08 min
End Time:	5.45 min



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

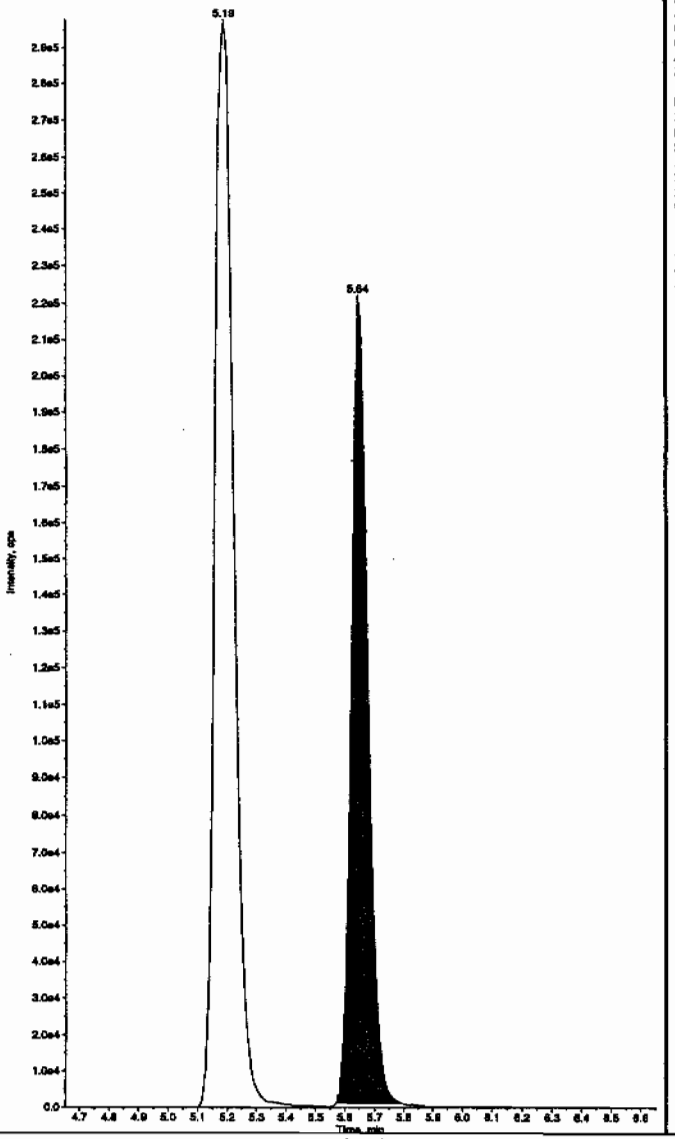
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "WXX100213-26CCV" Sample ID: "[1]LER" File: "EXS02130024.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "165.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 505. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 4:14:02 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: 5.65 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.64 min
Area: 8.75e+005 counts
Height: 221092.178 cps
Start Time: 5.57 min
End Time: 5.80 min

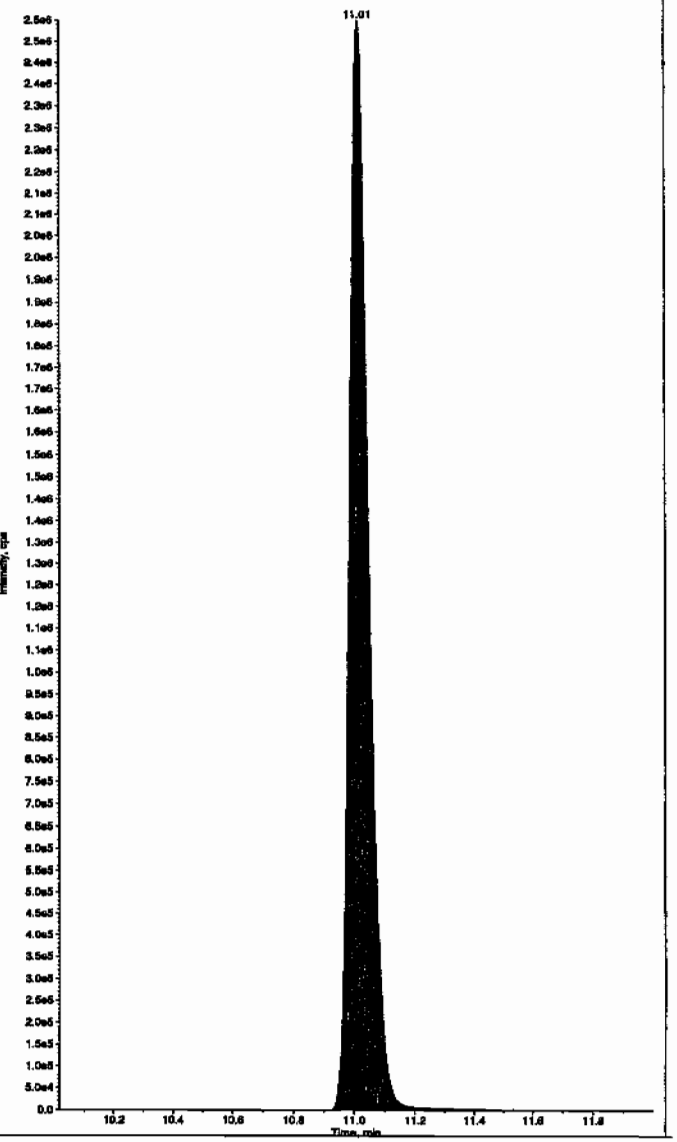


Sample Name: "WXX100213-26CCV" Sample ID: "[1]LER" File: "EXS02130024.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 513. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 4:14:02 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1.00e4 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 11.0 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 11.0 min
Area: 1.10e+007 counts
Height: 2499876.465 cps
Start Time: 10.9 min
End Time: 11.3 min



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

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

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXS02130026.wiff **Analysis Date:** 13-FEB-10 16:45

LCMSMS ID: 1358 **Column ID:** JSphere ODS-H80

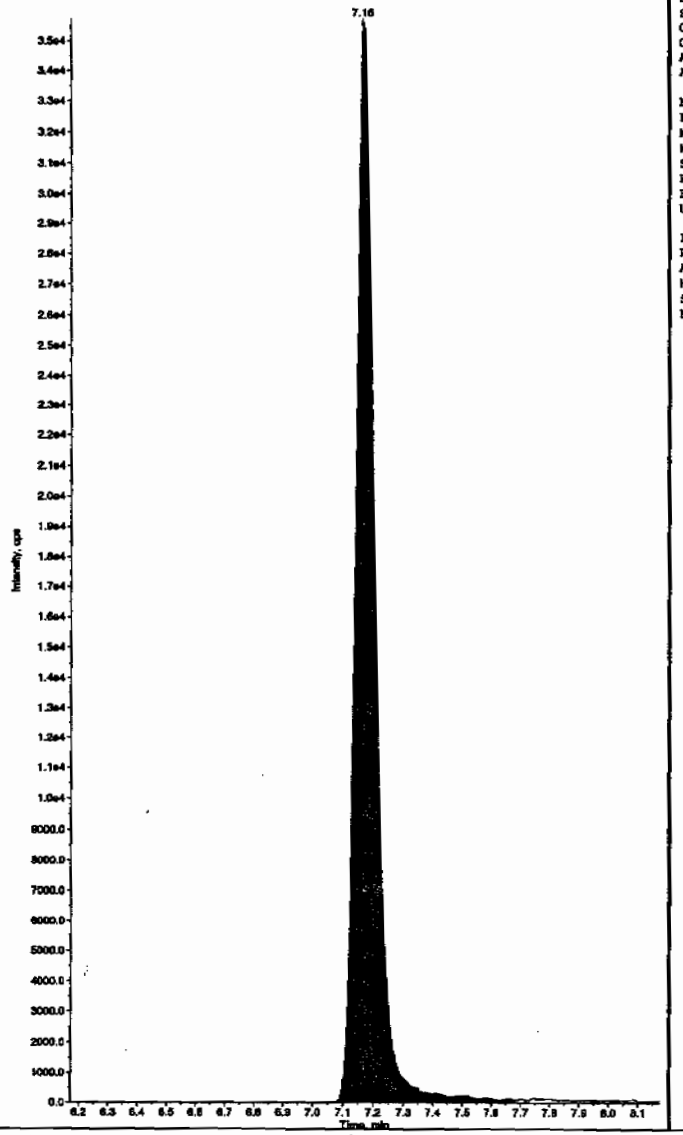
Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	116	116	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	56.6	113	
3,5-Dinitroaniline	100	115	115	
TATB	100	105	105	
tris(o-cresyl) phosphate	100	105	105	

Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Sar 2/15/10

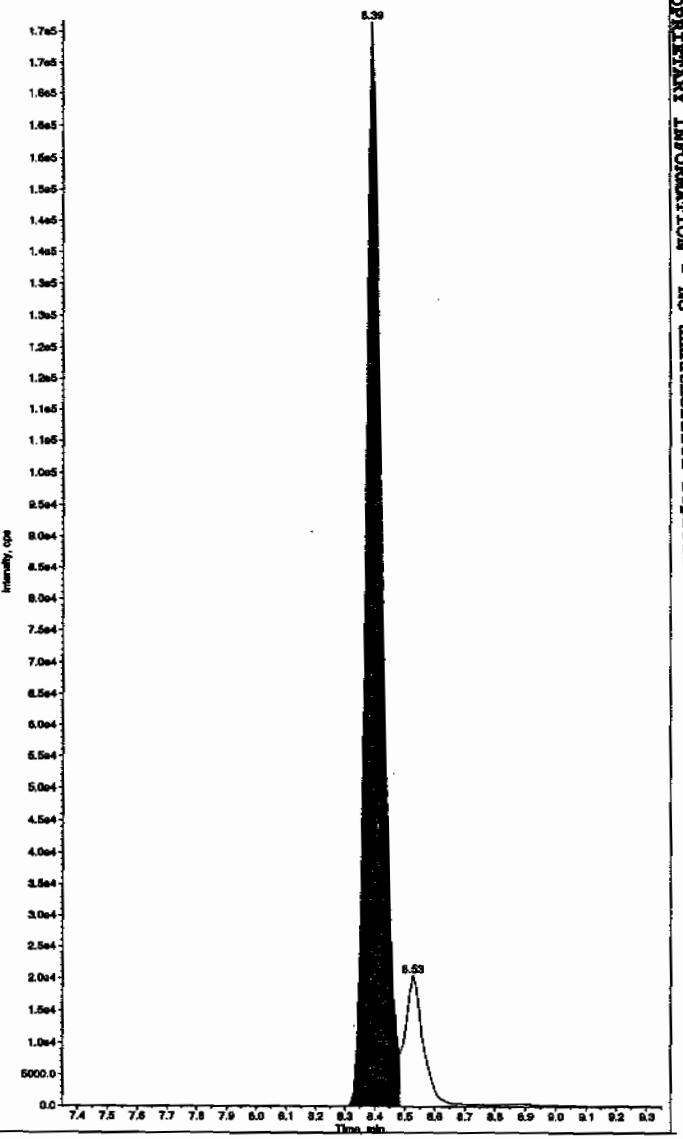
Sample Name: "WXX100213-27CRI" Sample ID: "1|LER" File: "EXS02130026.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	105. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	4:45:25 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.16 min
Area:	1.62e+005 counts
Height:	35741.764 cps
Start Time:	7.01 min
End Time:	7.68 min



Sample Name: "WXX100213-27CRI" Sample ID: "1|LER" File: "EXS02130026.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	115. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	4:45:25 PM
Modified:	Yes
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:	8.35 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.39 min
Area:	6.69e+005 counts
Height:	171701.492 cps
Start Time:	8.29 min
End Time:	8.48 min



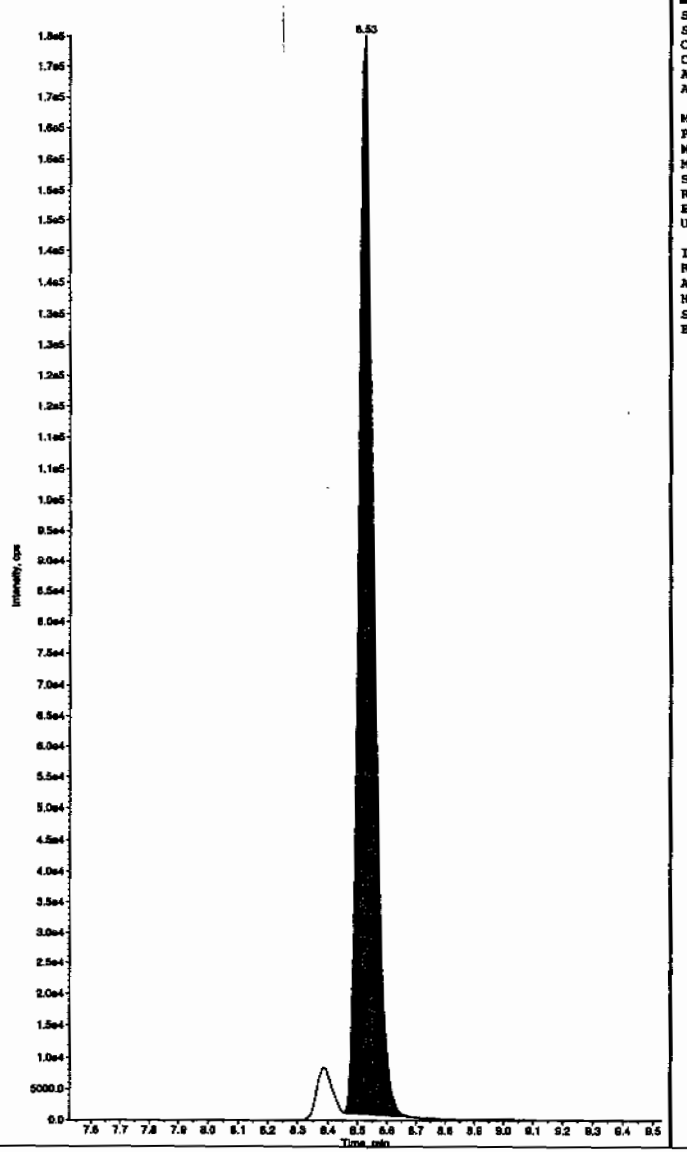
Hmm 02/15/10

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

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

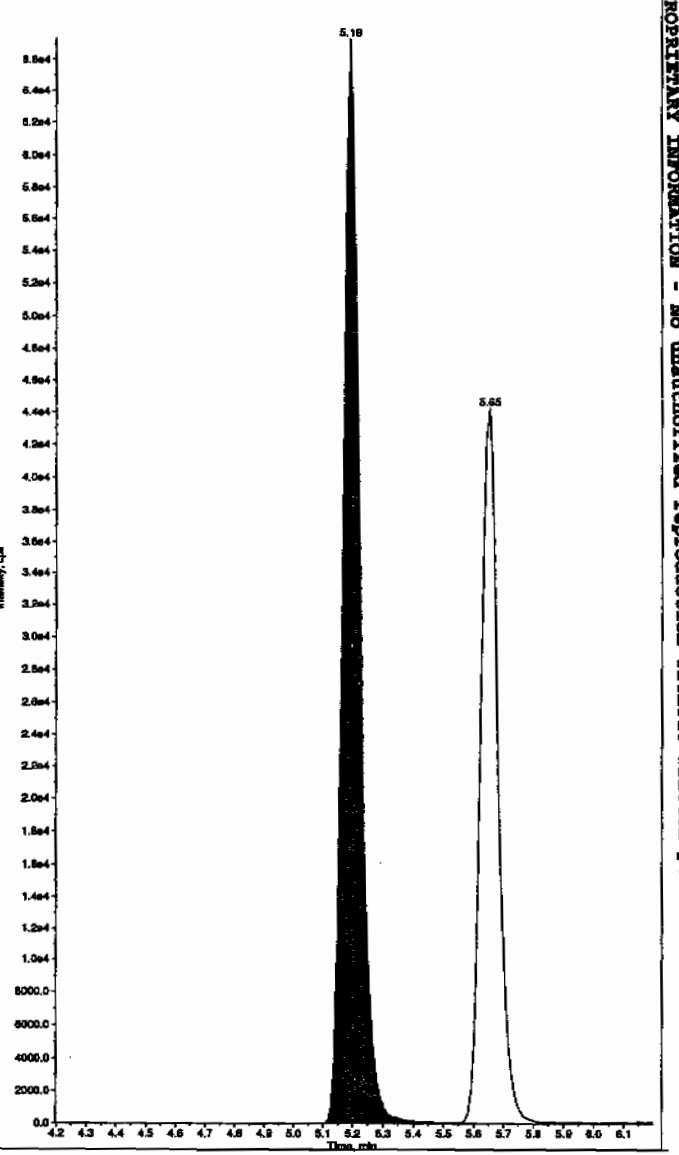
Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130026.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	50.0	ng/mL
Calculated Conc:	56.6	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:45:25 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:	8.53	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	8.53	min
Area:	6.46e+005	counts
Height:	174294.678	cps
Start Time:	8.45	min
End Time:	8.71	min



Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130026.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "168.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	100.	ng/mL
Calculated Conc:	109.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:45:25 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	450.00	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	5.20	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	5.19	min
Area:	2.74e+005	counts
Height:	67367.584	cps
Start Time:	5.03	min
End Time:	5.49	min

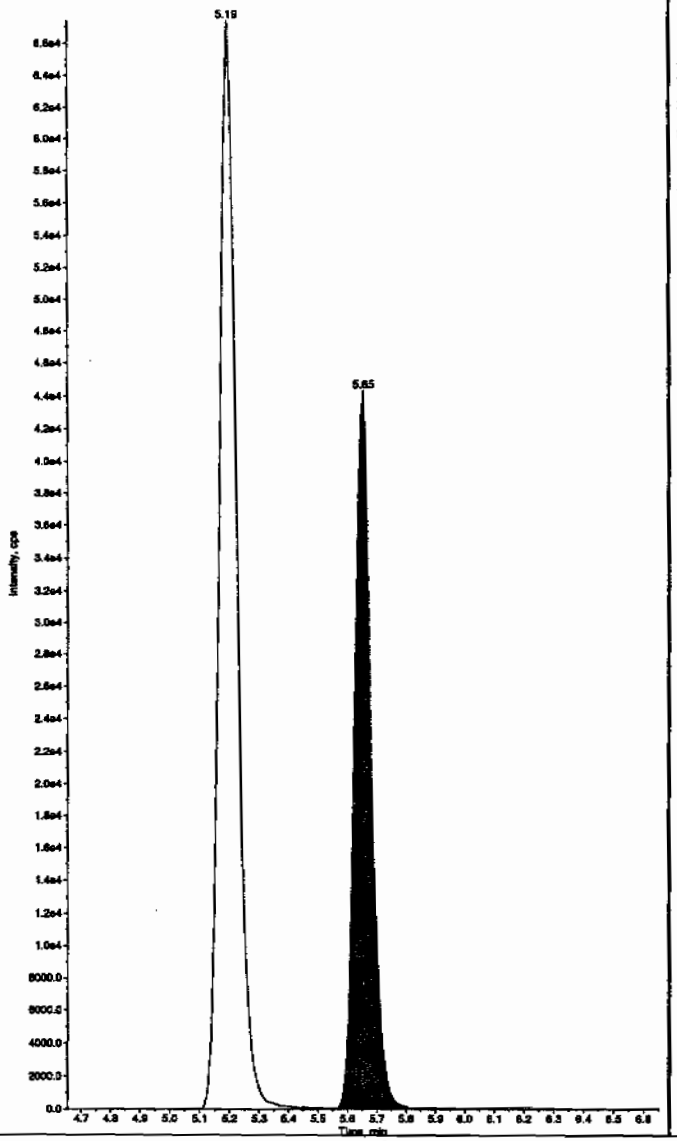


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

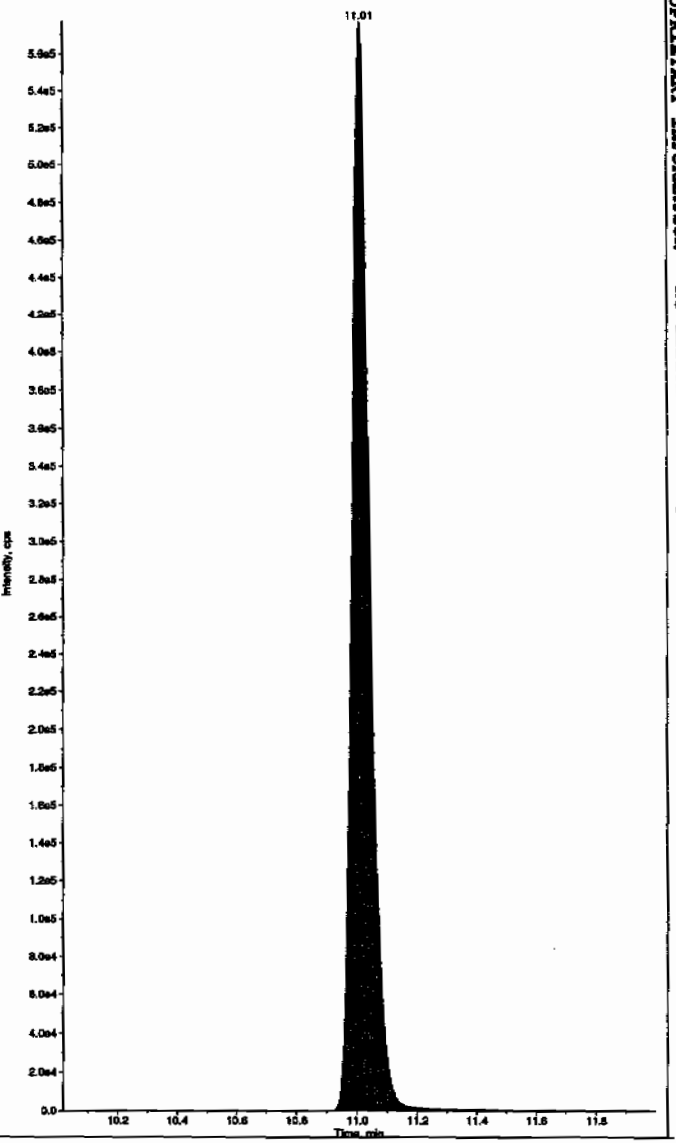
Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130026.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	100.	ng/mL
Calculated Conc:	116.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:45:25 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:	5.65	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	5.65	min
Area:	1.80e+005	counts
Height:	44292.934	cps
Start Time:	5.56	min
End Time:	5.93	min



Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130026.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	100.	ng/mL
Calculated Conc:	105.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	4:45:25 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	1.00e4	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	11.0	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	11.0	min
Area:	2.44e+006	counts
Height:	576848.450	cps
Start Time:	10.9	min
End Time:	11.4	min



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

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

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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1432

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02130036.wiff

Analysis Date: 13–FEB–10 19:22

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

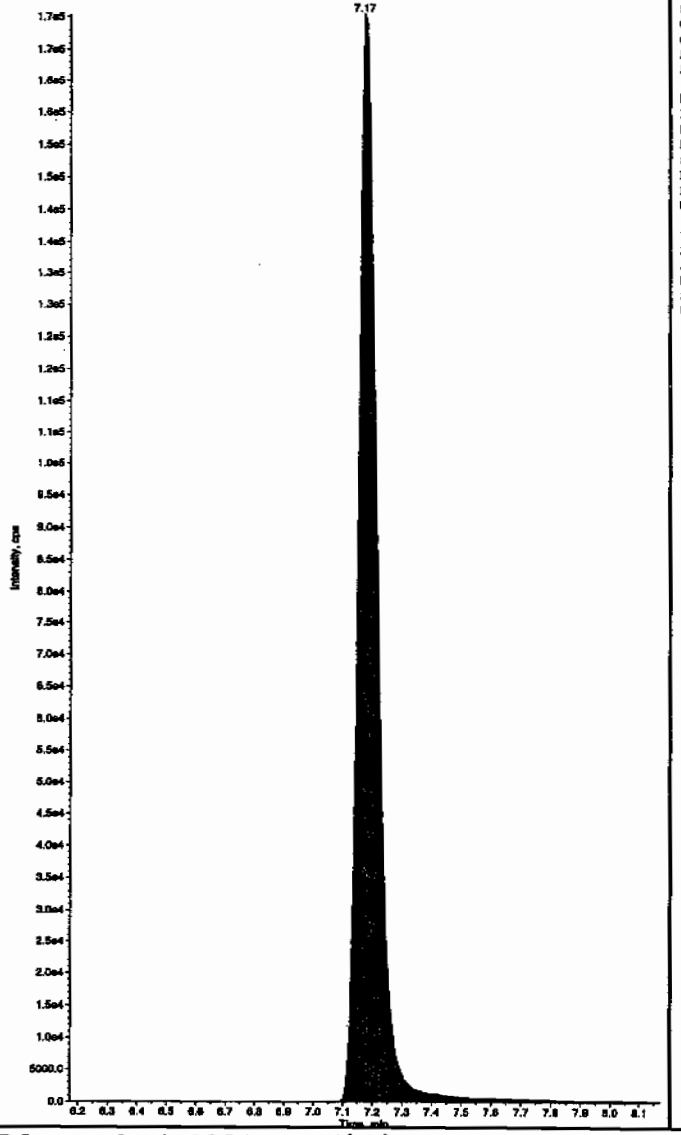
Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	500	579	116	
2,6–Diamino–4–nitrotoluene	500	606	121	
3,4–Dinitrotoluene	250	251	101	
3,5–Dinitroaniline	500	609	122	
TATB	500	511	102	
tris(o–cresyl) phosphate	500	517	103	

Recovery Limits:
3,4–Dinitrotoluene (Surrogate),TATB, tris(o–cresyl)phosphate, 3,5–Dinitroaniline, 2,6–Diamino–4–nitrotoluene , 2,4–Diamino–6–nitrotoluene 70–130%
OtherTarget Analytes 80–120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Before Dan 2/15/10

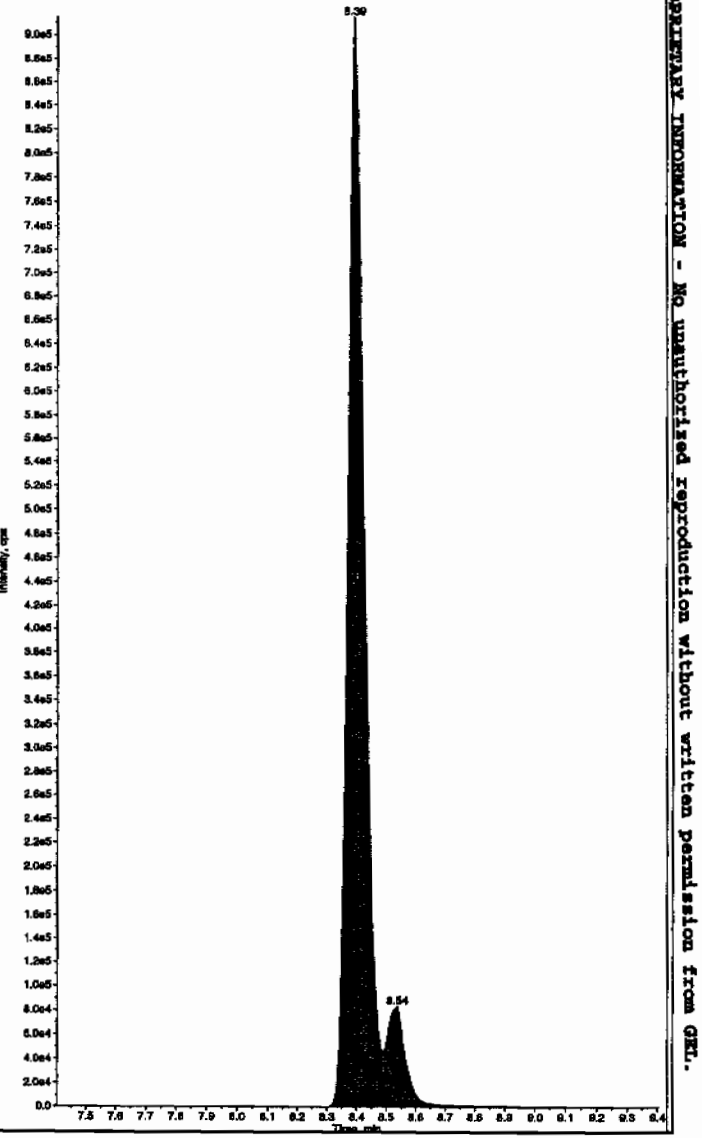
Sample Name: "WXX100213-26CCV" Sample ID: "|1|LER" File: "EXS02130036.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	500. ng/mL
Calculated Conc:	511. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:22:20 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.17 min
Area:	7.94e+005 counts
Height:	170471.252 cps
Start Time:	7.06 min
End Time:	7.95 min



Sample Name: "WXX100213-26CCV" Sample ID: "|1|LER" File: "EXS02130036.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	500. ng/mL
Calculated Conc:	678. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:22:20 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:	8.40 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.39 min
Area:	4.06e+006 counts
Height:	914572.998 cps
Start Time:	8.30 min
End Time:	8.95 min



Hmm 2/15/10

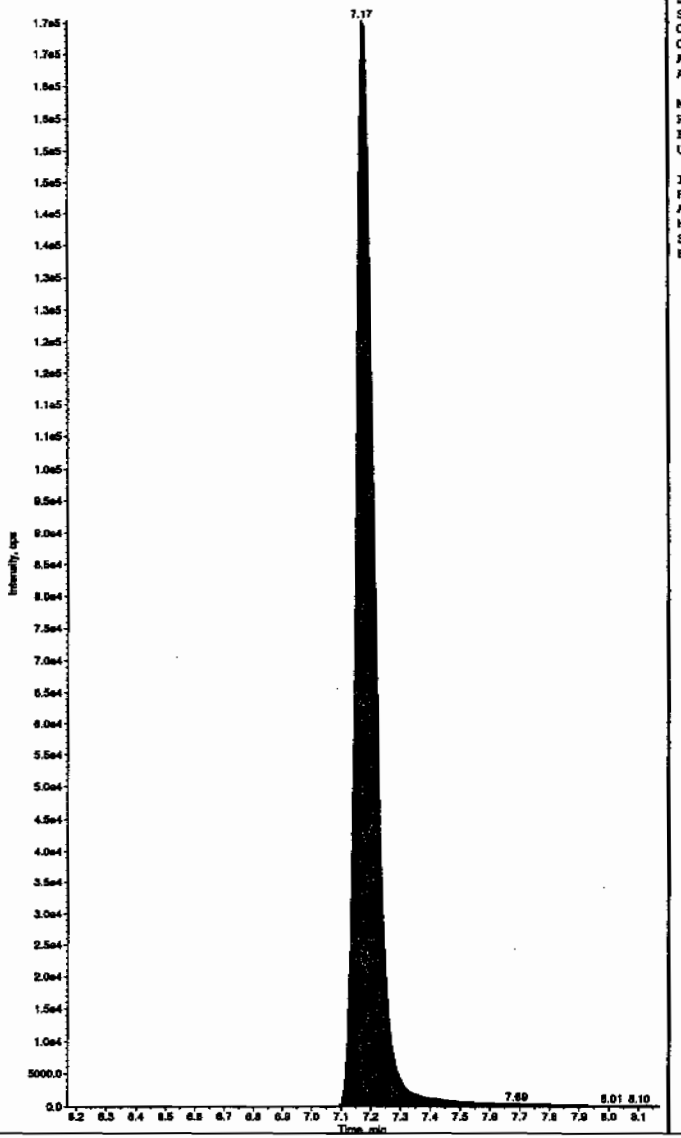
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

after Jan 2/15/10

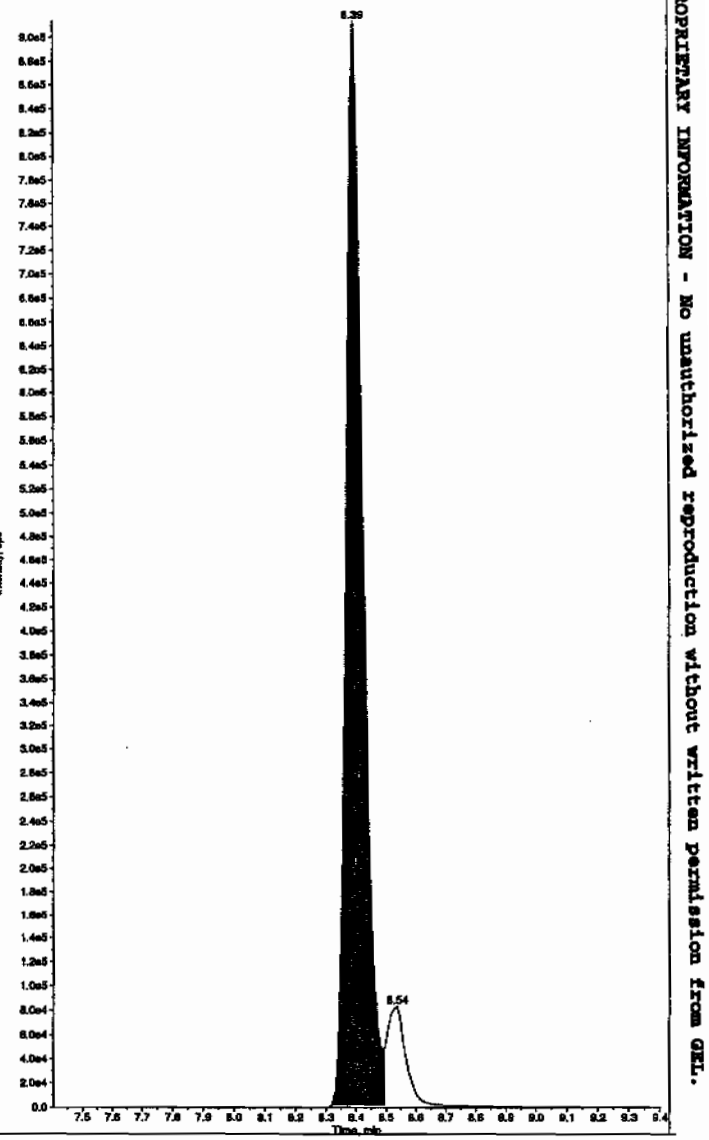
Sample Name: "WXX100213-26CCV" Sample ID: "|1|LEF" File: "EXS02130036.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	511.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	7:22:20 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:	7.17	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	7.17	min
Area:	7.94e+005	counts
Height:	170471.252	cps
Start Time:	7.06	min
End Time:	7.95	min



Sample Name: "WXX100213-26CCV" Sample ID: "|1|LEF" File: "EXS02130036.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	609.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	7:22:20 PM	
Modified:	Yes	
RT Window:	15.0	sec
Expected RT:	8.40	min
Use Relative RT:	No	
Int. Type:	Manual	
Retention Time:	8.39	min
Area:	3.66e+006	counts
Height:	912724.007	cps
Start Time:	8.32	min
End Time:	8.50	min



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

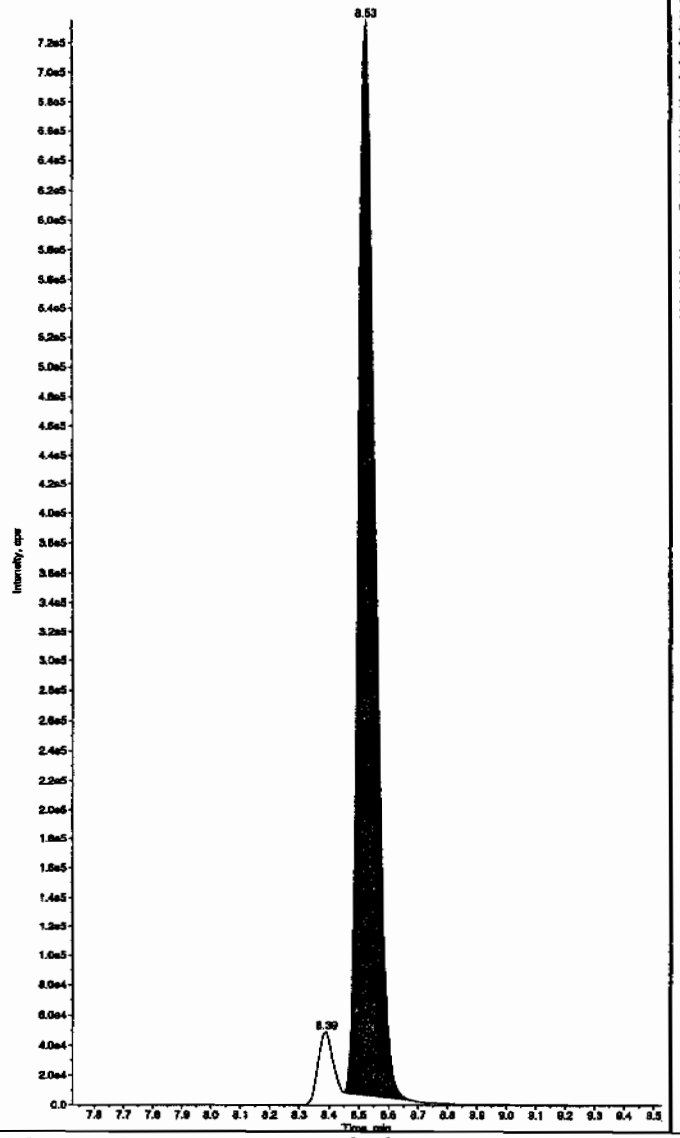
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "WXX100213-26CCV" Sample ID: "|1|LER" File: "EXS02130036.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 250. ng/mL
Calculated Conc: 251. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:22:20 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: 8.53 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.53 min
Area: 2.99e+006 counts
Height: 729522.339 cps
Start Time: 8.45 min
End Time: 8.68 min

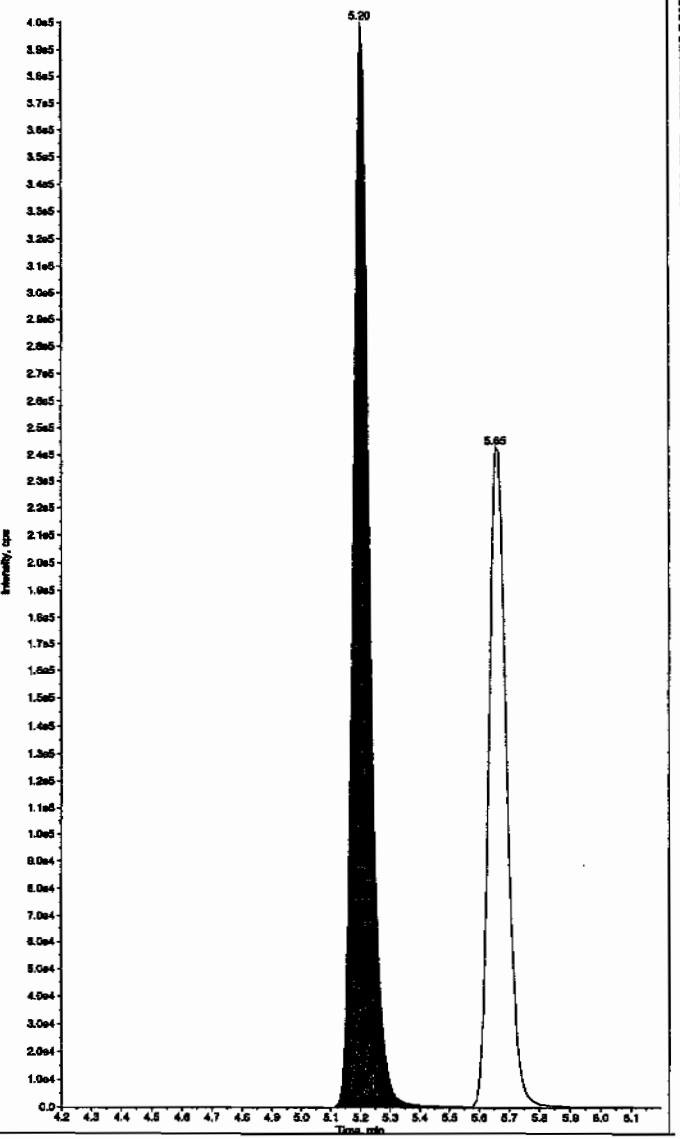


Sample Name: "WXX100213-26CCV" Sample ID: "|1|LER" File: "EXS02130036.wiff"
Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 606. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 7:22:20 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 5.20 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.20 min
Area: 1.58e+006 counts
Height: 400582.001 cps
Start Time: 5.07 min
End Time: 5.50 min

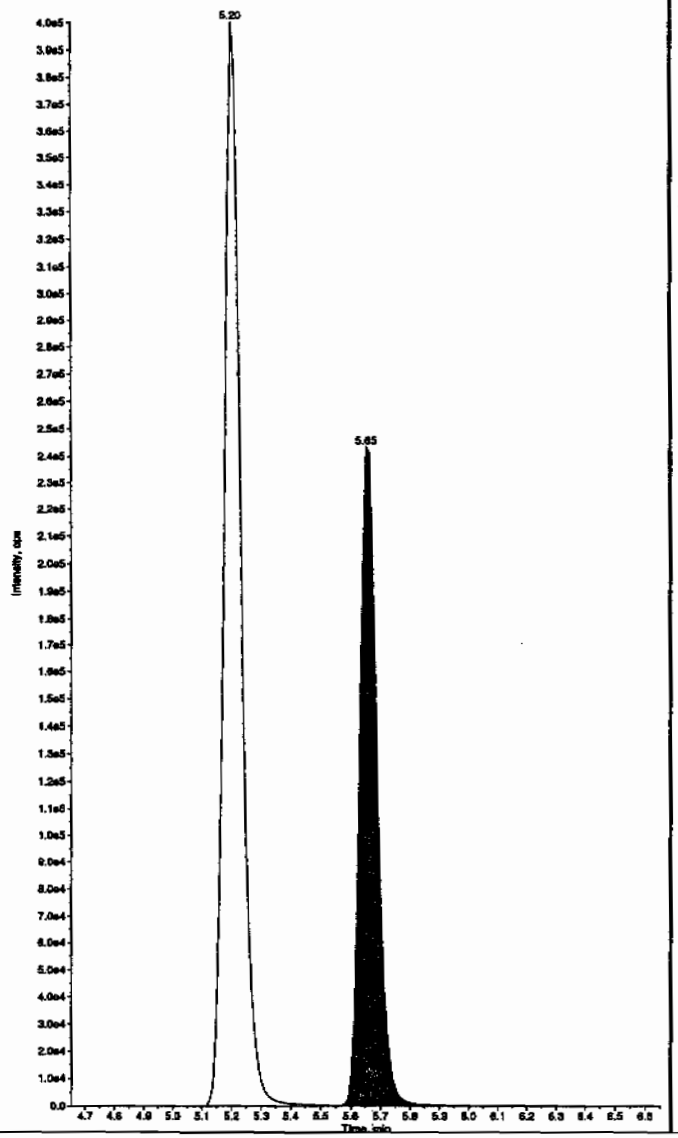


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

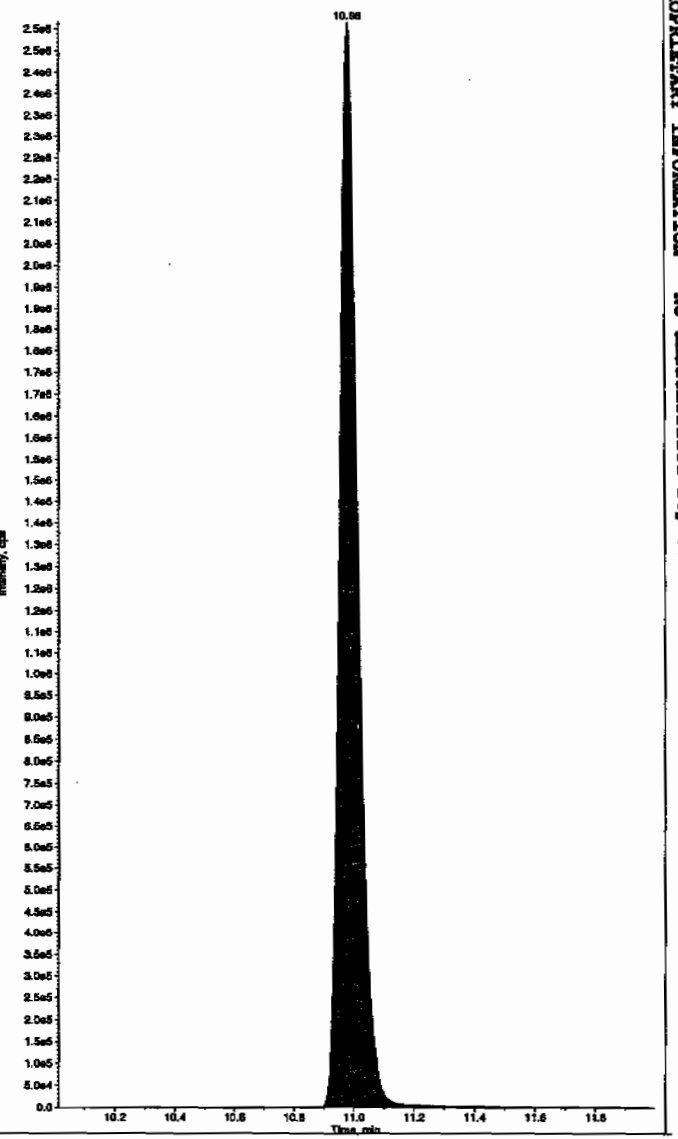
Sample Name: "WXX100213-26CCV" Sample ID: "[1]LER" File: "EXS02130036.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	579.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	7:22:20 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:	5.65	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	5.65	min
Area:	1.00e+006	counts
Height:	243375.397	cps
Start Time:	5.55	min
End Time:	5.99	min



Sample Name: "WXX100213-26CCV" Sample ID: "[1]LER" File: "EXS02130036.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	500.	ng/mL
Calculated Conc:	517.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	7:22:20 PM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	1.00e4	cps
Min. Peak Width:	0.00	sec
Smoothing Width:	3	points
RT Window:	30.0	sec
Expected RT:	11.0	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	11.0	min
Area:	1.11e+007	counts
Height:	2516471.191	cps
Start Time:	10.9	min
End Time:	11.3	min



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

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

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10–1432

Lab Code: GEL **GEL Sample ID:** WXXCRI

GEL Data File EXS02130038.wiff **Analysis Date:** 13–FEB–10 19:53

LCMSMS ID: 1358 **Column ID:** JSphere ODS–H80

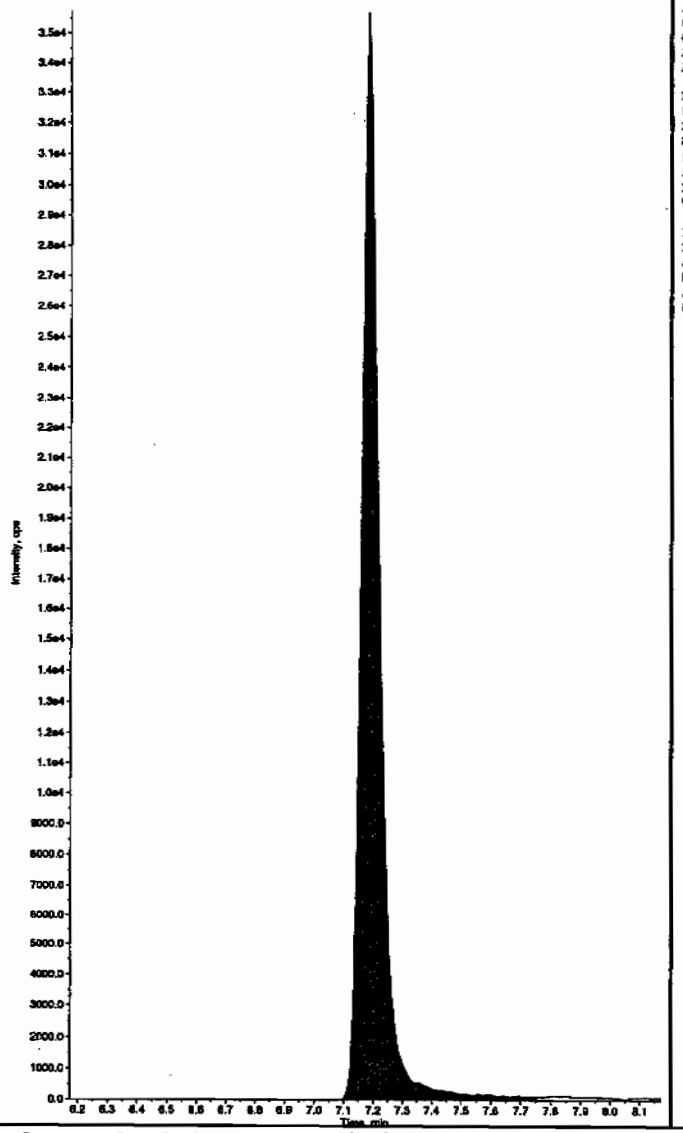
Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	100	130	130	
2,6–Diamino–4–nitrotoluene	100	123	123	
3,4–Dinitrotoluene	50	59.6	119	
3,5–Dinitroaniline	100	133	133	
TATB	100	104	104	
tris(o–cresyl) phosphate	100	107	107	

Recovery Limits:
3,4–Dinitrotoluene (Surrogate),TATB, tris(o–cresyl)phosphate, 3,5–Dinitroaniline, 2,6–Diamino–4–nitrotoluene , 2,4–Diamino–6–nitrotoluene 50–150%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Before Lan 2/15/10

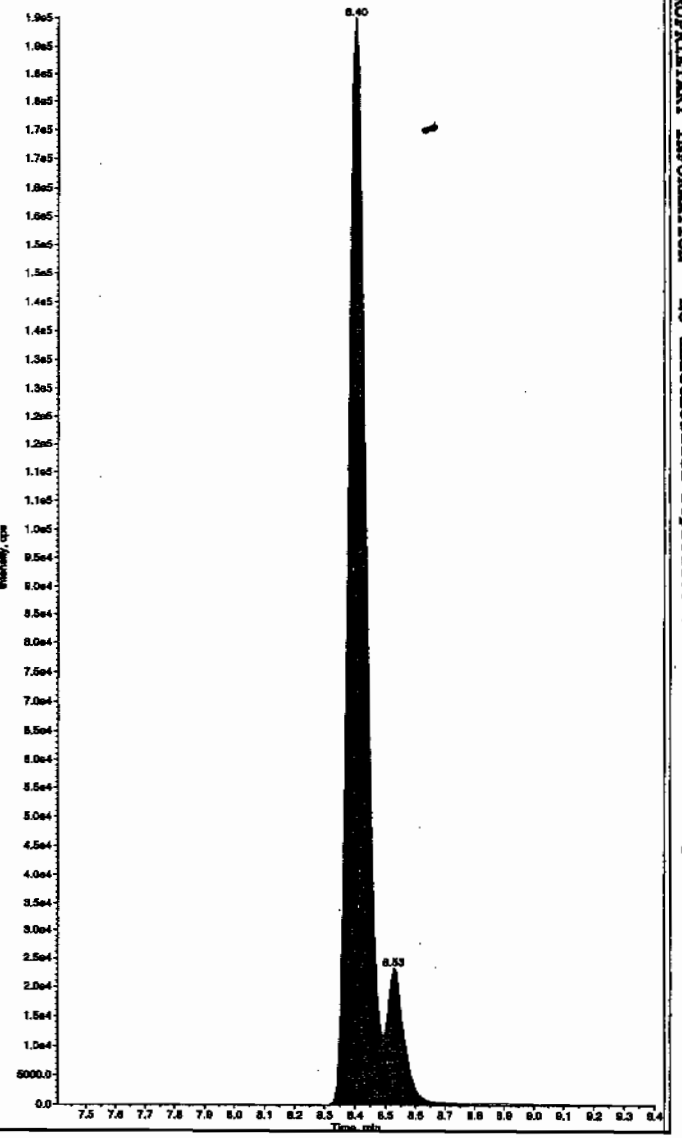
Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130036.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	104. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:53:43 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.18 min
Area:	1.59e+005 counts
Height:	35701.225 cps
Start Time:	7.05 min
End Time:	7.75 min



Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130036.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	149. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:53:43 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:	8.40 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.40 min
Area:	8.66e+005 counts
Height:	190221.069 cps
Start Time:	8.29 min
End Time:	8.79 min



HMM 02/15/10

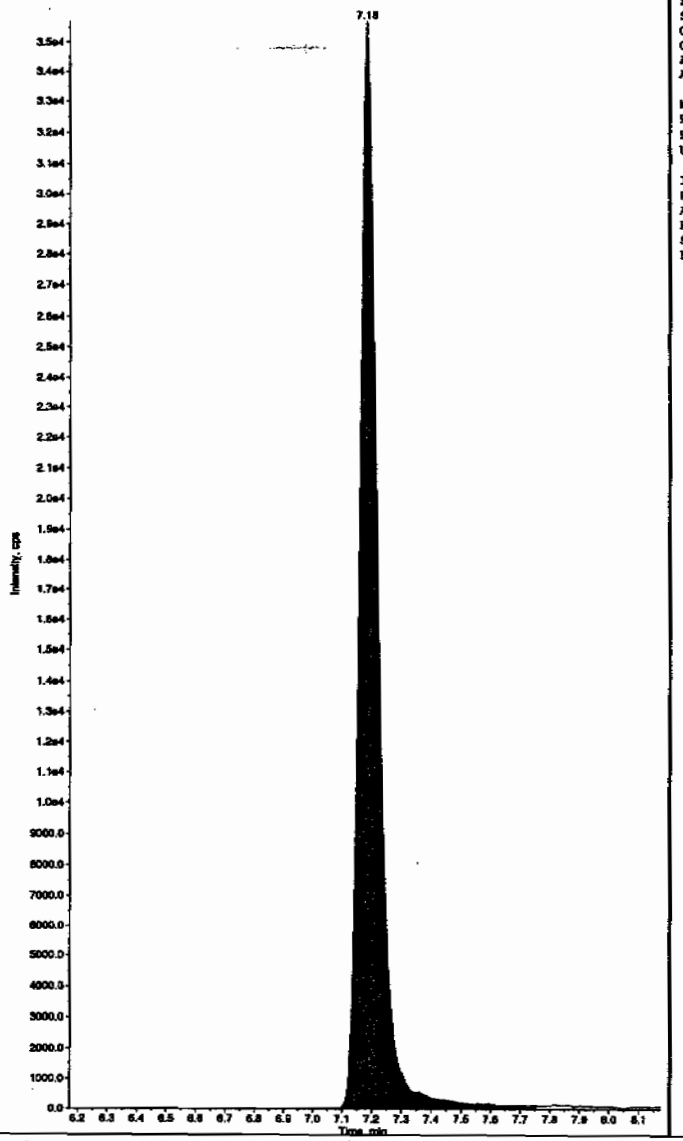
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

after scan 2/15/10

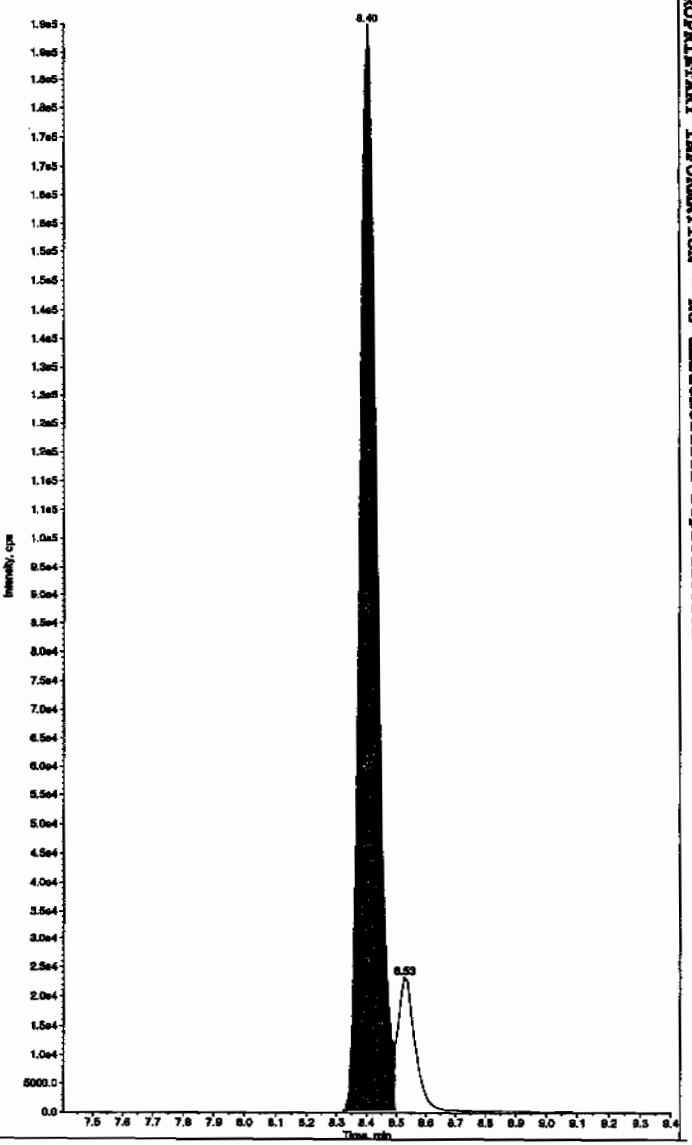
Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130038.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	100.	ng/mL
Calculated Conc:	104.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	7:53:43 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:	7.17	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	7.18	min
Area:	1.59e+005	counts
Height:	35701.225	cps
Start Time:	7.05	min
End Time:	7.75	min



Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130038.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1	
Sample Type:	QC	
Concentration:	100.	ng/mL
Calculated Conc:	133.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	7:53:43 PM	
Modified:	Yes	
RT Window:	15.0	sec
Expected RT:	8.40	min
Use Relative RT:	No	
Int. Type:	Manual	
Retention Time:	8.40	min
Area:	7.86e+005	counts
Height:	189893.730	cps
Start Time:	8.32	min
End Time:	8.50	min

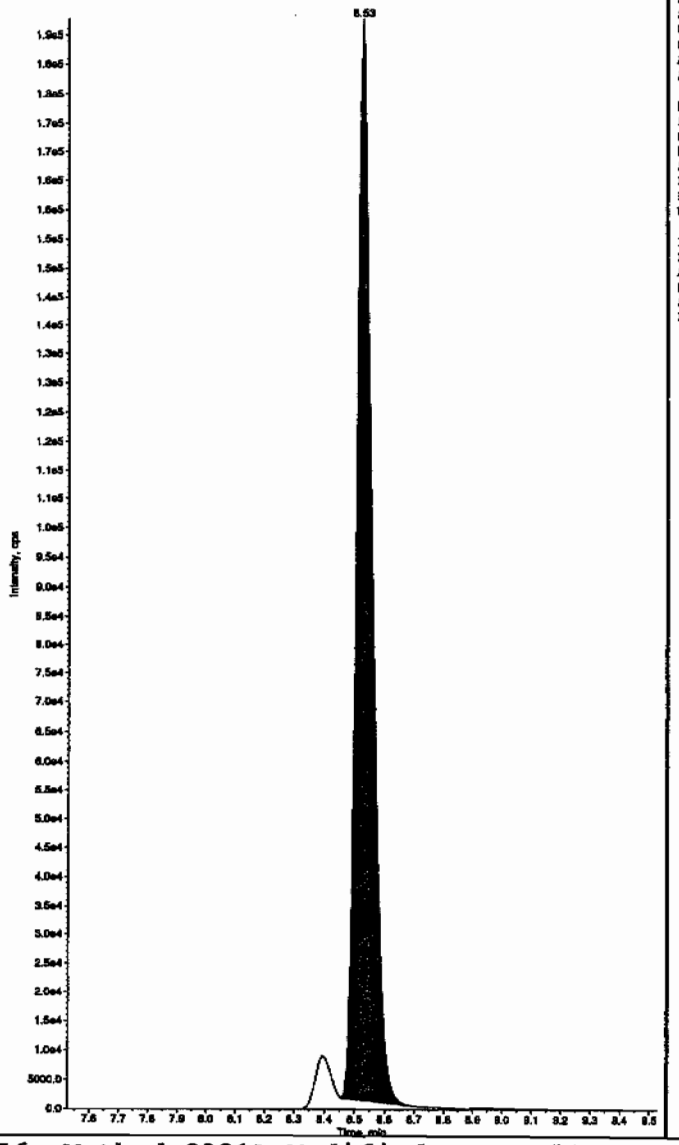


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

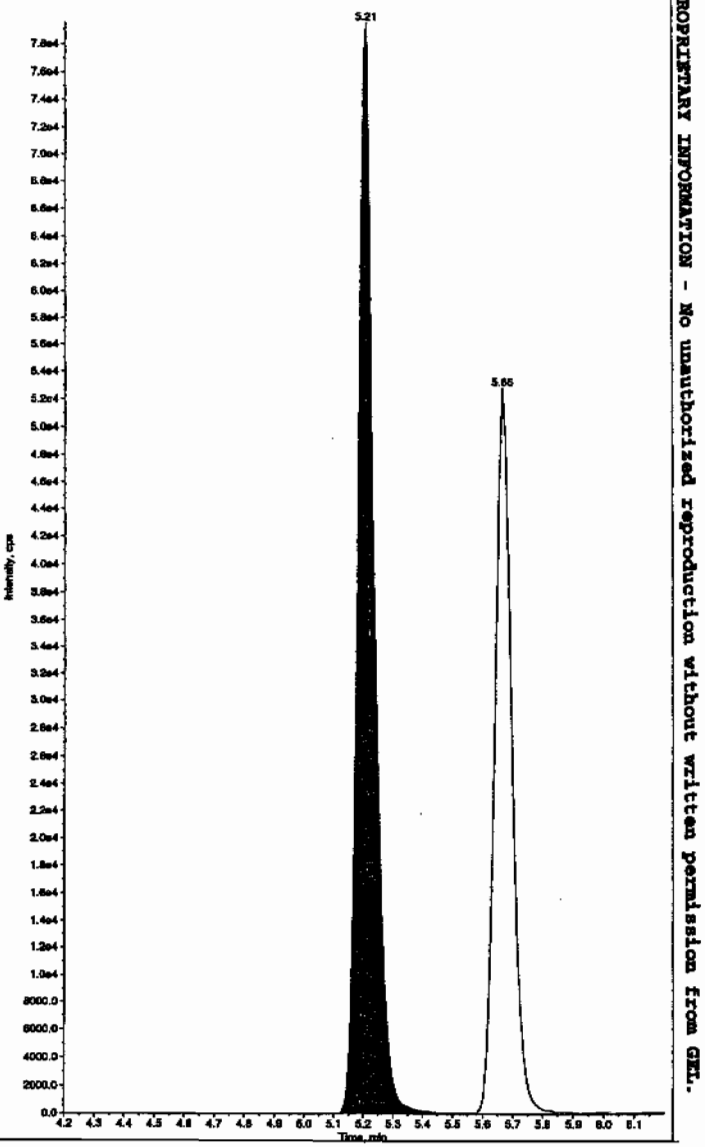
Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130038.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	50.0 ng/mL
Calculated Conc:	59.6 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:53:43 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:	8.53 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.53 min
Area:	6.83e+005 counts
Height:	186256.088 cps
Start Time:	8.45 min
End Time:	8.69 min



Sample Name: "WXX100213-27CRI" Sample ID: "|1|LER" File: "EXS02130038.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	123. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:53:43 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	450.00 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	5.20 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.21 min
Area:	3.11e+005 counts
Height:	79513.390 cps
Start Time:	5.09 min
End Time:	5.47 min

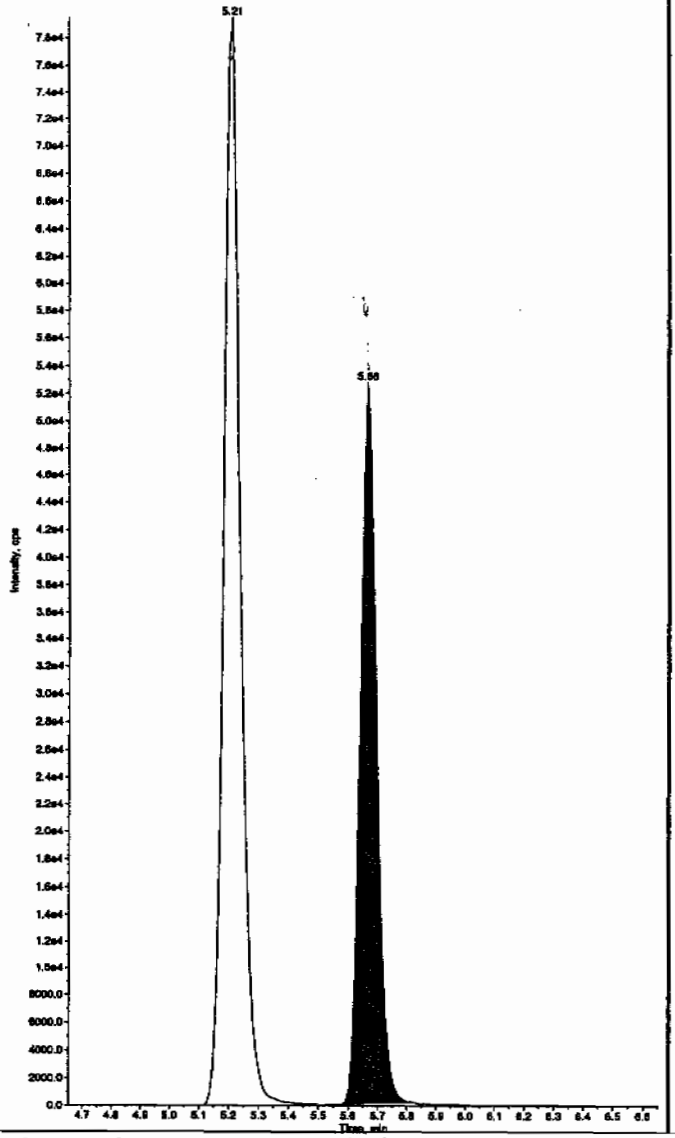


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

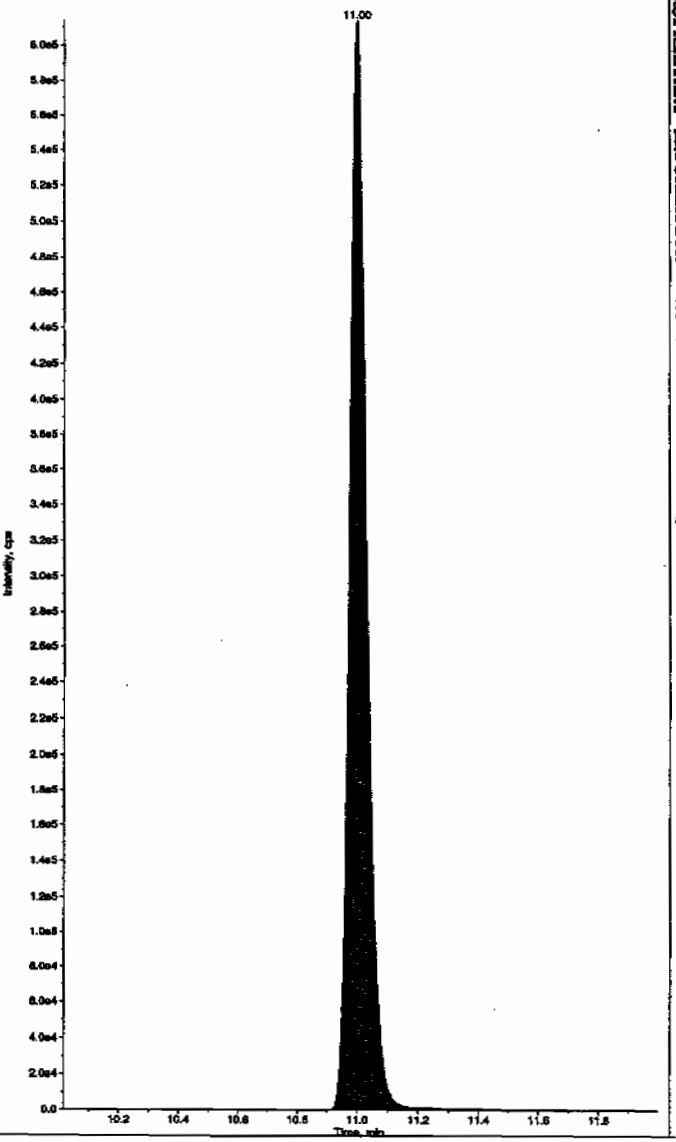
Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130038.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	130. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:53:43 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:	5.65 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.66 min
Area:	2.06e+005 counts
Height:	52651.608 cps
Start Time:	5.58 min
End Time:	5.82 min



Sample Name: "WXX100213-27CRI" Sample ID: "[1]LER" File: "EXS02130038.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index:	1
Sample Type:	QC
Concentration:	100. ng/mL
Calculated Conc:	107. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	7:53:43 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	2.48e+006 counts
Height:	613552.246 cps
Start Time:	10.9 min
End Time:	11.3 min



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

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

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

QUALITY CONTROL DATA

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 947076

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028672

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208182a

Date Analyzed: 12-FEB-10 07:46

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

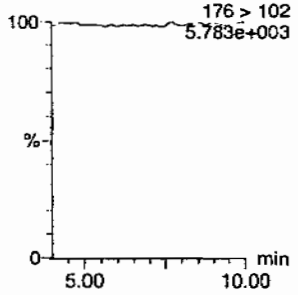
Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\020810expa.mdb, Time: Tue Feb 09 09:17:48 2010
Calibration: C:\MASSLYNX\New_Exp.PRO\CurveDB\020810expa.cdb, Time: Sat Feb 13 09:18:21 2010

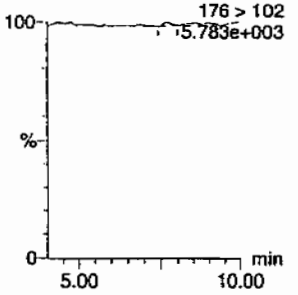
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208182a
Date: 12-Feb-2010
Time: 07:46:02
ID: 1202028672 | LANL | 942078 | Solid | MB | 2 | 1
Vial: 4:4,A

mm 2/13/10

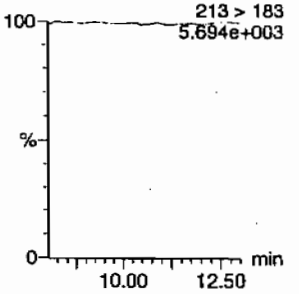
HMX
F2:MRM of 1 channel,AP- 176 > 102 5.783e+003



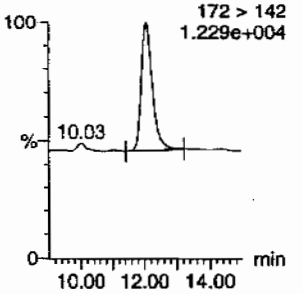
RDX
F2:MRM of 1 channel,AP- 176 > 102 5.783e+003



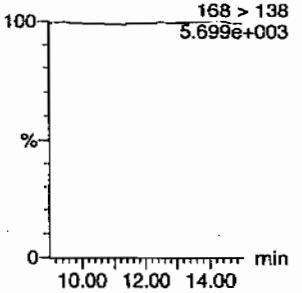
135-Trinitrobenzene
F4:MRM of 1 channel,AP- 213 > 183 5.694e+003



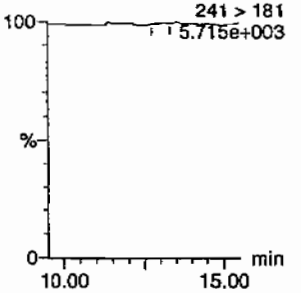
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP- 172 > 142 1.229e+004



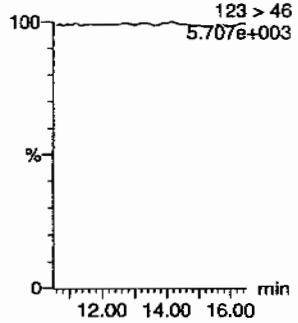
13-Dinitrobenzene
F5:MRM of 2 channels,AP- 168 > 138 5.699e+003



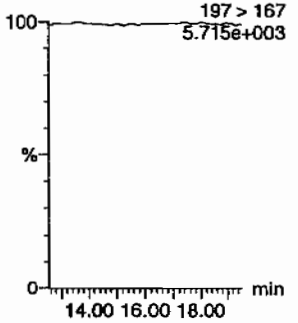
Tetryl
F6:MRM of 1 channel,AP- 241 > 181 5.715e+003



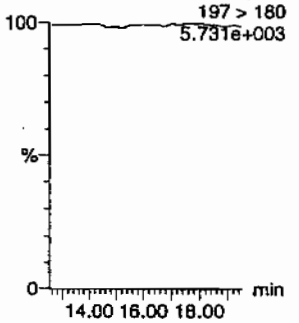
Nitrobenzene
F7:MRM of 1 channel,AP- 123 > 46 5.707e+003



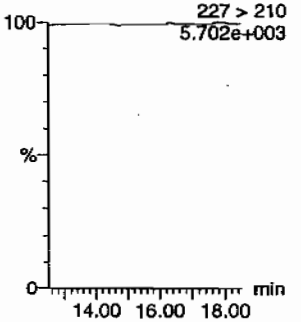
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 167 5.715e+003



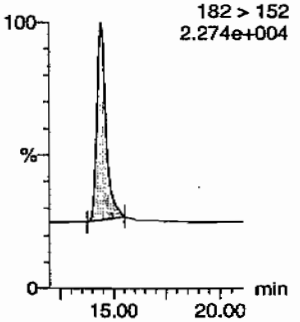
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP- 197 > 180 5.731e+003



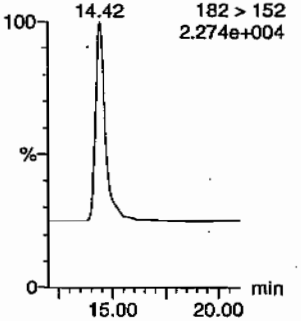
246-Trinitrotoluene
F10:MRM of 1 channel,AP- 227 > 210 5.702e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP- 182 > 152 2.274e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP- 14.42 182 > 152 2.274e+004

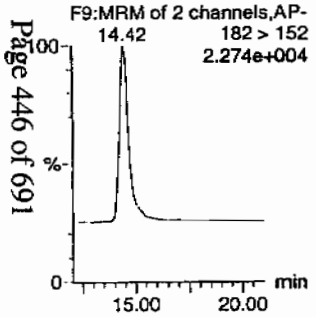


Hmc 02/13/10

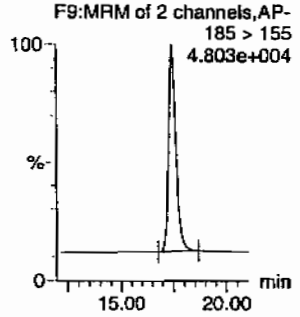
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

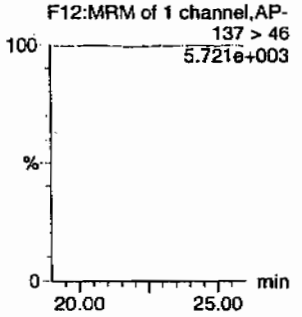
24-dinitrotoluene



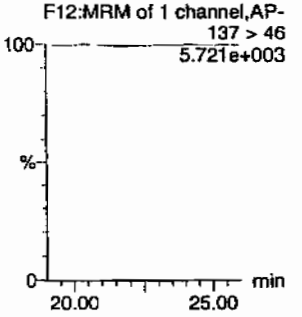
26-dinitrotoluene-d3



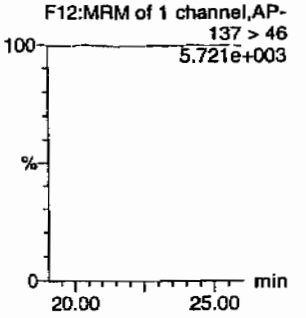
2-Nitrotoluene



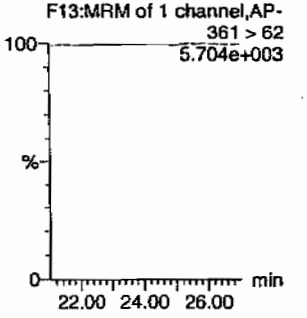
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
1202028672	HMX	176 > 102			2731.762									
1202028672	RDX	176 > 102			2731.762			MM-	13-Feb-10	09:16:03				
1202028672	135-Trinitrobenzene	213 > 183			2731.762									
1202028672	13-Dinitrobenzene-d4	172 > 142	12.07	2731.762		2731.762	2731.762	bb			424.9027	85.0	-15.0	89.7
1202028672	13-Dinitrobenzene	168 > 138			2731.762									
1202028672	Tetryl	241 > 181			2731.762			MM-	13-Feb-10	09:17:44				
1202028672	Nitrobenzene	123 > 46			2731.762									
1202028672	4-Amino-26-dinitrotoluene	197 > 167			17376.613									
1202028672	2-Amino-46-dinitrotoluene	197 > 180			17376.613									
1202028672	246-Trinitrotoluene	227 > 210			17376.613									
1202028672	34-dinitrotoluene	182 > 152	14.42	8324.583	17376.613	8324.583	239.534	bb			266.1514	106.5	6.5	510.3
1202028672	26-dinitrotoluene	182 > 152			17376.613									
1202028672	24-dinitrotoluene	182 > 152			17376.613									
1202028672	26-dinitrotoluene-d3	185 > 155	17.46	17376.613		17376.613	17376.613	bb			470.6639	94.1	-5.9	727.7
1202028672	2-Nitrotoluene	137 > 46			17376.613									
1202028672	4-Nitrotoluene	137 > 46			17376.613									
1202028672	3-Nitrotoluene	137 > 46			17376.613									
1202028672	PETN	361 > 62			17376.613									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 947076

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028672

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130014.wiff

Date Analyzed: 13-FEB-10 13:36

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 =

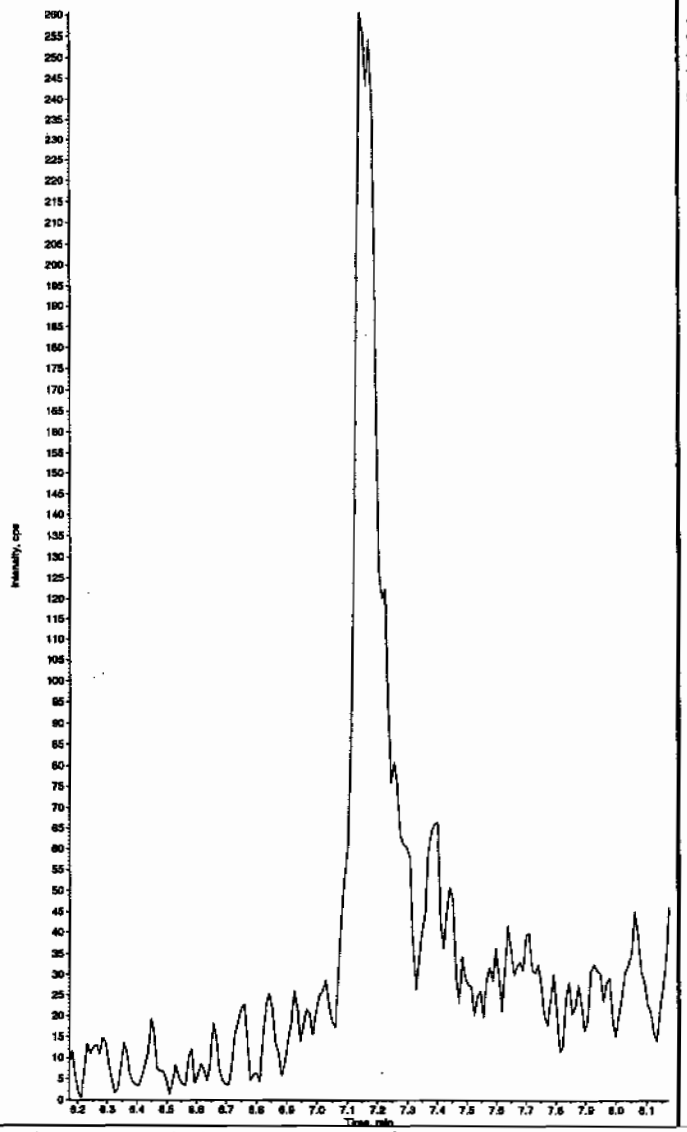
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dan 2/15/10

Sample Name: "1202028672" Sample ID: "9470782|LER" File: "EXS02130014.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 1:36:59 PM

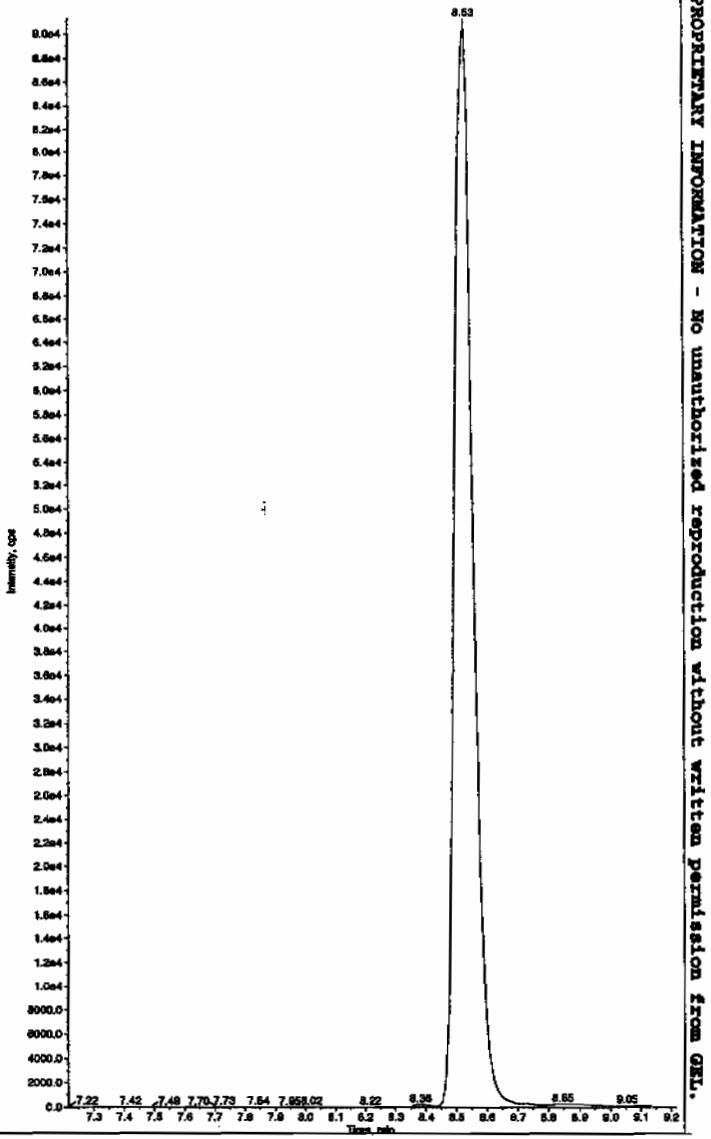
Modified: No



Sample Name: "1202028672" Sample ID: "9470782|LER" File: "EXS02130014.wiff"
Peak Name: "3,5-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/13/2010
Acq. Time: 1:36:59 PM

Modified: Yes



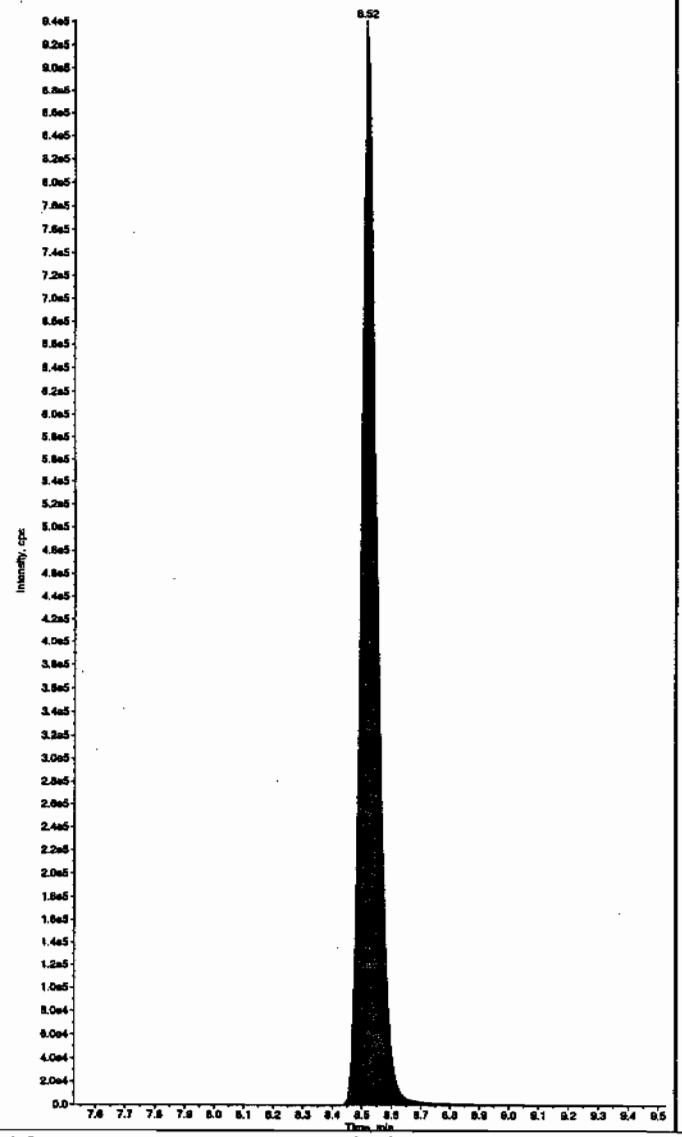
Hyme 02/16/10

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

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

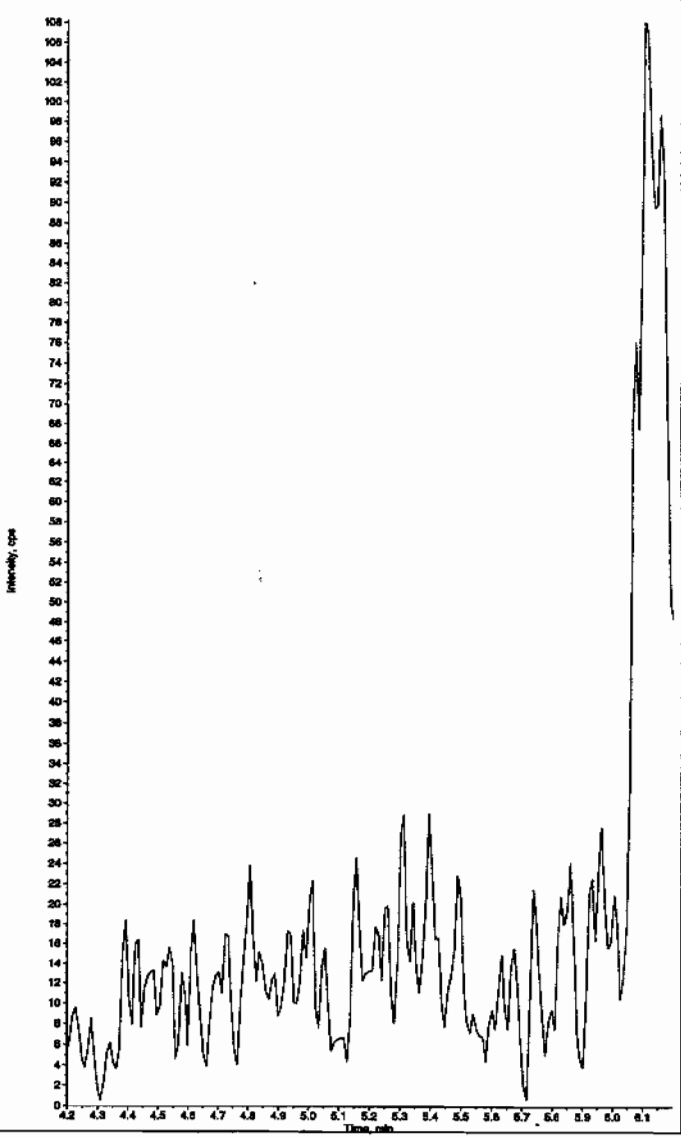
Sample Name: "1202028672" Sample ID: "9470782[LER" File: "EXS02130014.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	308. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:36:59 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:	8.53 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.52 min
Area:	3.64e+006 counts
Height:	941911.865 cps
Start Time:	8.42 min
End Time:	8.98 min



Sample Name: "1202028672" Sample ID: "9470782[LER" File: "EXS02130014.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:36:59 PM
Modified:	No

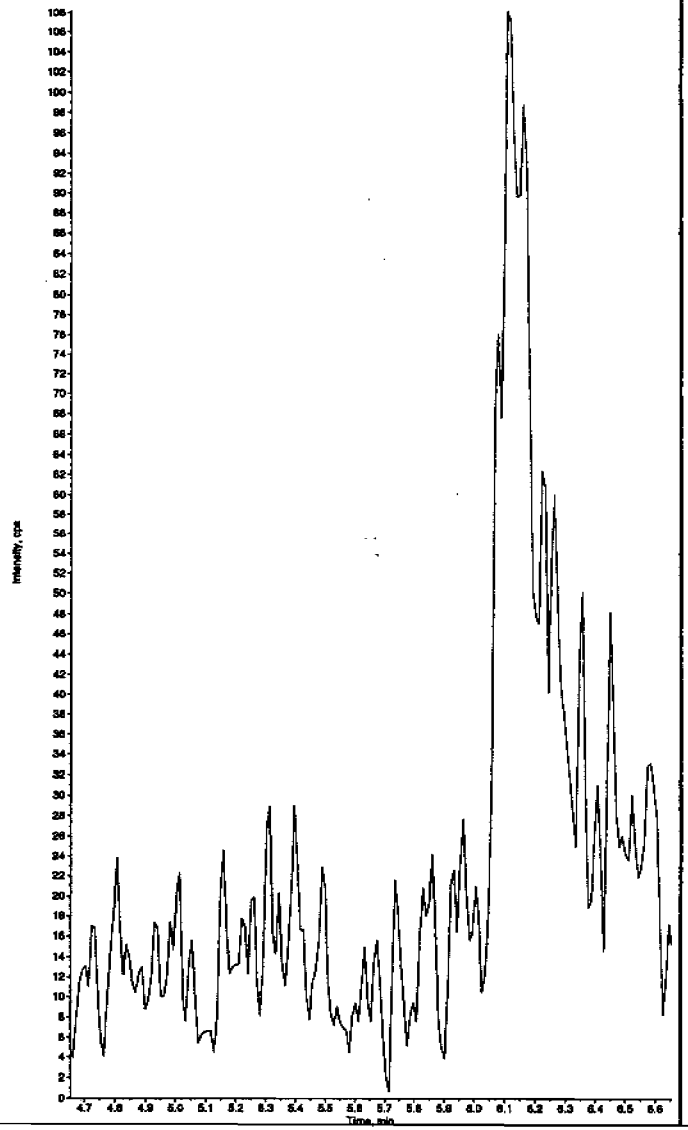


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

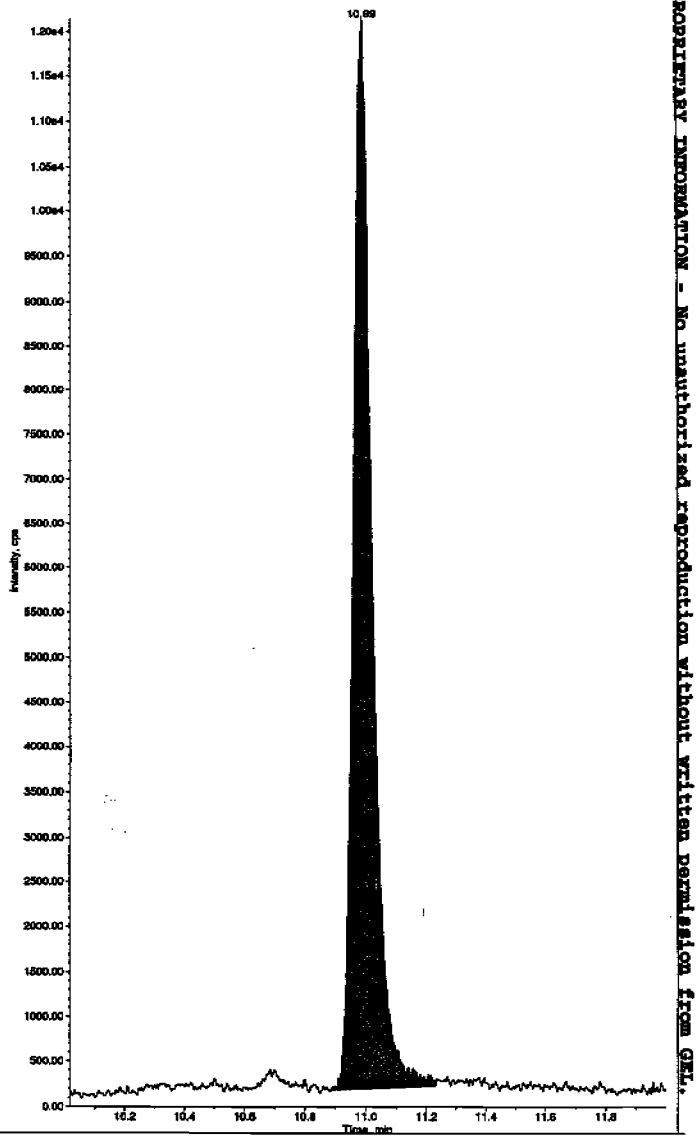
Sample Name: "1202028672" Sample ID: "947078|2|LER" File: "EXS02130014.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:36:59 PM
Modified:	No



Sample Name: "1202028672" Sample ID: "947078|2|LER" File: "EXS02130014.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.703 ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:36:59 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	5.33e+004 counts
Height:	11959.649 cps
Start Time:	10.9 min
End Time:	11.2 min



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 947076

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028673

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208183a

Date Analyzed: 12-FEB-10 08:15

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5840	
121-14-2	2,4-Dinitrotoluene	5210	
121-82-4	RDX	4260	
19406-51-0	4-Amino-2,6-dinitrotoluene	4660	
2691-41-0	HMX	3970	
35572-78-2	2-Amino-4,6-dinitrotoluene	5190	
479-45-8	Tetryl	2430	
606-20-2	2,6-Dinitrotoluene	4990	
78-11-5	PETN	6230	
88-72-2	o-Nitrotoluene	4650	
98-95-3	Nitrobenzene	4570	
99-08-1	m-Nitrotoluene	4470	
99-35-4	1,3,5-Trinitrobenzene	3850	
99-65-0	m-Dinitrobenzene	5000	
99-99-0	p-Nitrotoluene	4580	

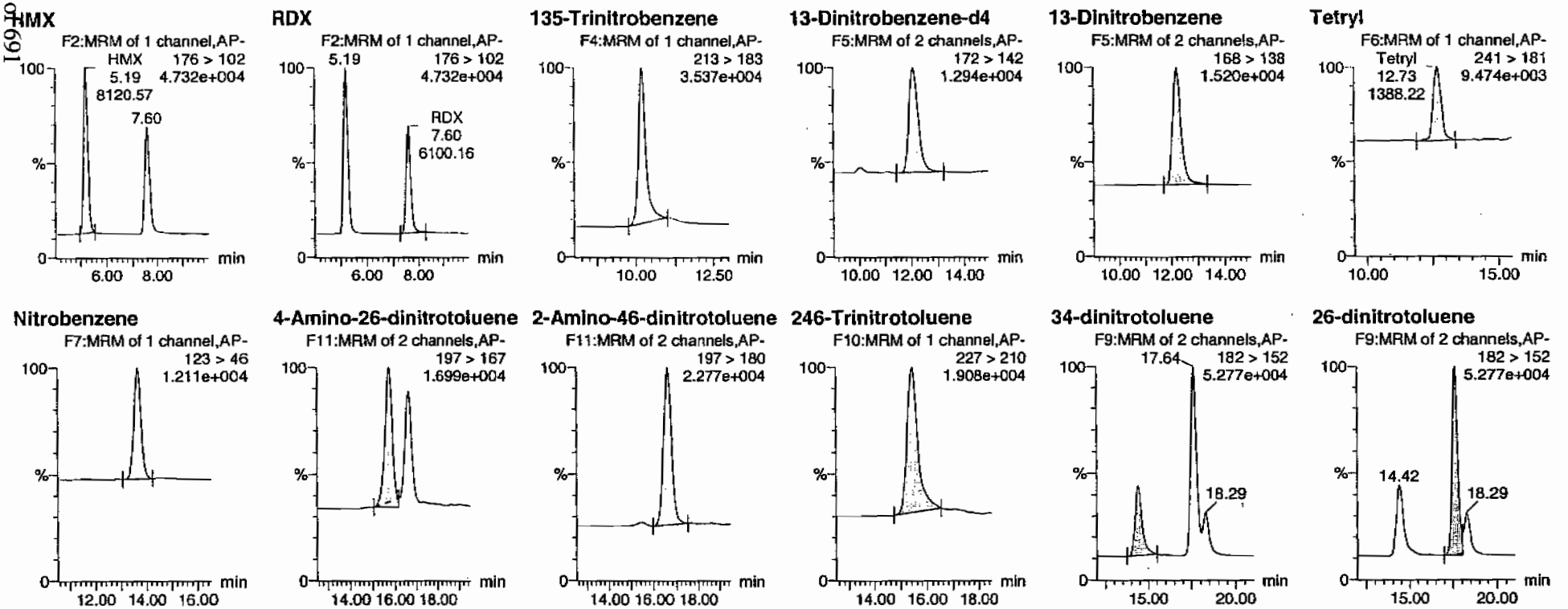
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208183a
Date: 12-Feb-2010
Time: 08:15:42
ID: 1202028673 | LANL | 947078 | SOLID | LCS | 21
Vial: 4:4,B

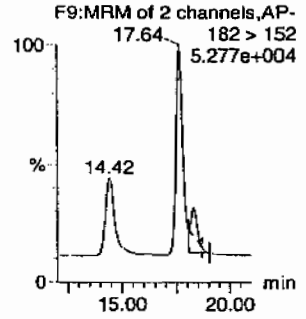
MAP 2/13/10



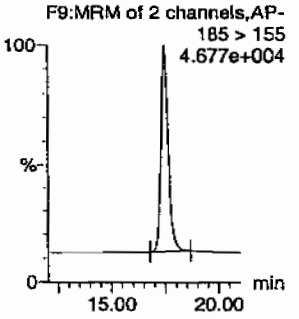
Hmm 02/13/10

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

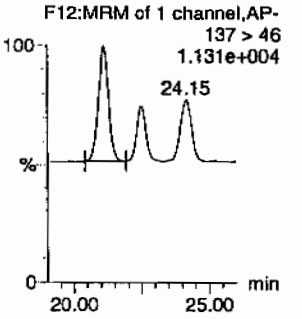
24-dinitrotoluene



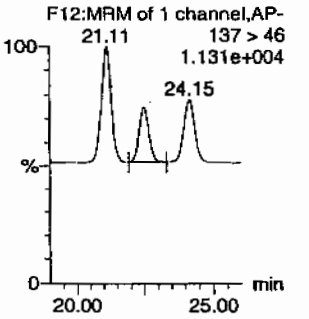
26-dinitrotoluene-d3



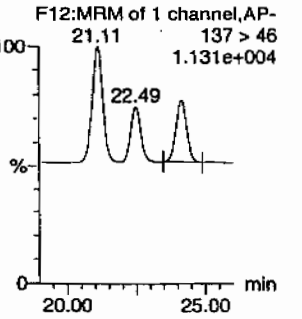
2-Nitrotoluene



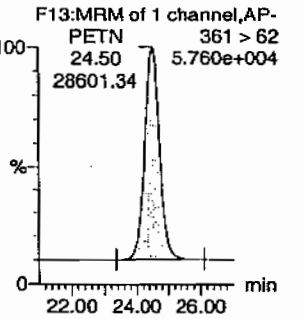
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
1202028673	HMX	176 > 102	5.19	8120.573	2945.593	8120.573	1378.428	bb			396.9207	79.4	-20.6	1239.8
1202028673	RDX	176 > 102	7.60	6100.156	2945.593	6100.156	1035.472	bb			426.4459	85.3	-14.7	798.4
1202028673	135-Trinitrobenzene	213 > 183	10.20	8347.845	2945.593	8347.845	1417.006	bb			384.7365	76.9	-23.1	904.7
1202028673	13-Dinitrobenzene-d4	172 > 142	12.07	2945.593		2945.593	2945.593	bb			458.1623	91.6	-8.4	308.1
1202028673	13-Dinitrobenzene	168 > 138	12.21	3539.871	2945.593	3539.871	600.876	bb			499.7322	99.9	-0.1	382.4
1202028673	Tetryl	241 > 181	12.73	1388.224	2945.593	1388.224	235.644	bb			242.5732	48.5	-51.5	71.5
1202028673	Nitrobenzene	123 > 46	13.62	2175.756	2945.593	2175.756	369.324	bb			457.2138	91.4	-8.6	184.1
1202028673	4-Amino-26-dinitrotoluene	197 > 167	15.73	4408.101	16481.695	4408.101	133.727	MM	13-Feb-10	09:19:57	465.5510	93.1	-6.9	380.0
1202028673	2-Amino-46-dinitrotoluene	197 > 180	16.60	6775.812	16481.695	6775.812	205.556	bb			519.0403	103.8	3.8	364.7
1202028673	246-Trinitrotoluene	227 > 210	15.44	6215.970	16481.695	6215.970	188.572	bb			584.4234	116.9	16.9	444.5
1202028673	34-dinitrotoluene	182 > 152	14.42	8473.784	16481.695	8473.784	257.067	bb			285.6320	114.3	14.3	529.7
1202028673	26-dinitrotoluene	182 > 152	17.64	17667.385	16481.695	17667.385	535.970	MM	13-Feb-10	09:25:16	499.0000	99.8	-0.2	1428.2
1202028673	24-dinitrotoluene	182 > 152	18.29	4189.585	16481.695	4189.585	127.098	MM	13-Feb-10	09:27:19	520.7840	104.2	4.2	309.9
1202028673	26-dinitrotoluene-d3	185 > 155	17.46	16481.695		16481.695	16481.695	bb			446.4241	89.3	-10.7	1661.9
1202028673	2-Nitrotoluene	137 > 46	21.11	2376.145	16481.695	2376.145	72.084	bb			464.9158	93.0	-7.0	439.1
1202028673	4-Nitrotoluene	137 > 46	22.49	1146.631	16481.695	1146.631	34.785	bb			457.6812	91.5	-8.5	213.2
1202028673	3-Nitrotoluene	137 > 46	24.15	1372.784	16481.695	1372.784	41.646	bb			446.9803	89.4	-10.6	237.4
1202028673	PETN	361 > 62	24.50	28601.338	16481.695	28601.338	867.670	bb			623.1750	124.6	24.6	7753.9

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 947076

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028673

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130015.wiff

Date Analyzed: 13-FEB-10 13:52

Units: ug/kg

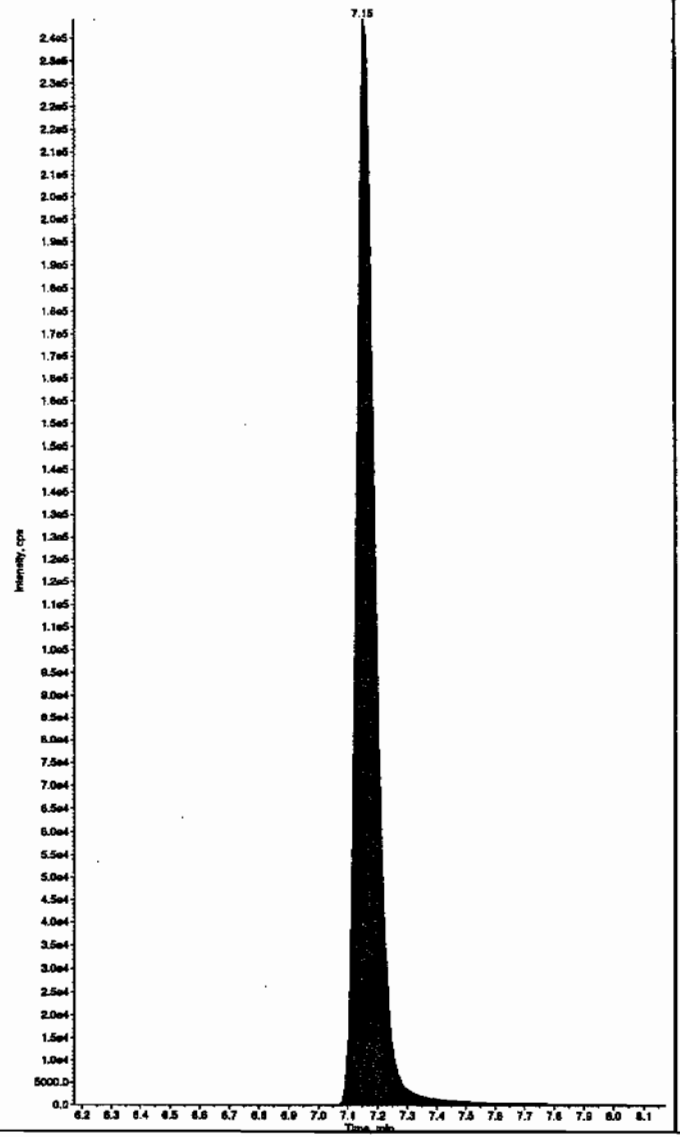
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	7100	
59229-75-3	2,6-Diamino-4-nitrotoluene	5210	
618-87-1	3,5-Dinitroaniline	5530	
6629-29-4	2,4-Diamino-6-nitrotoluene	4660	
78-30-8	tris(o-cresyl) phosphate	5200	

*Concentration = $\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$

Before Dan 2/15/10

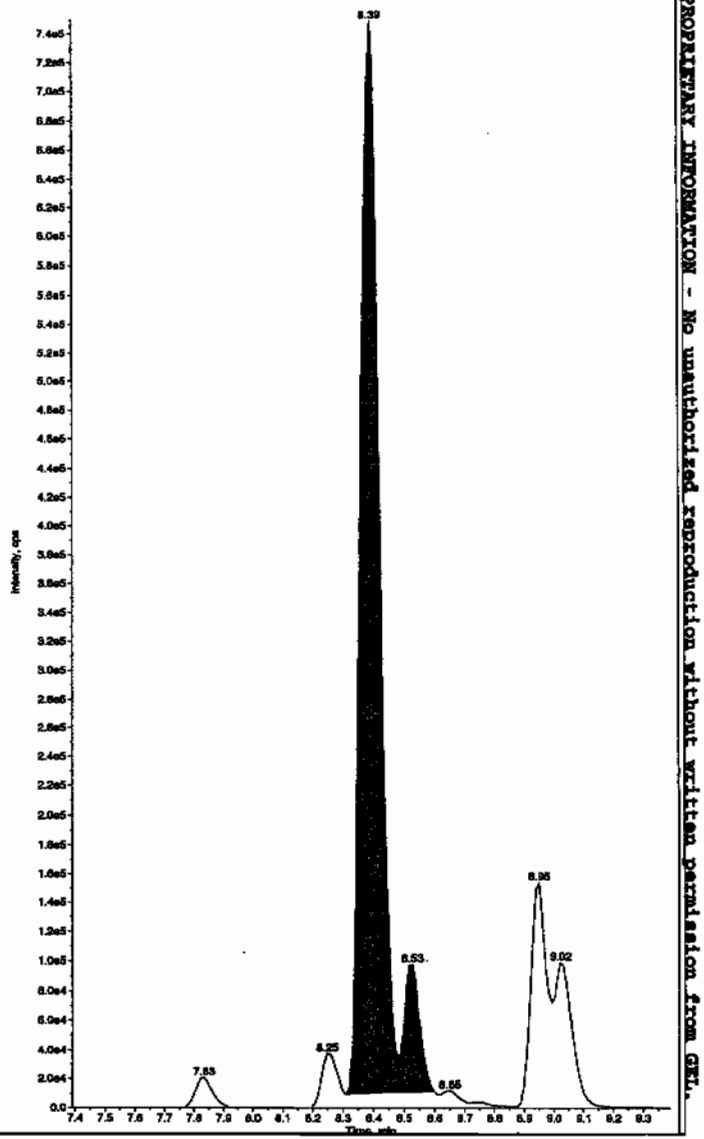
Sample Name: "1202028673" Sample ID: "947078|2|LER" File: "EXS02130015.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	710. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:52:42 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.15 min
Area:	1.10e+006 counts
Height:	239441.803 cps
Start Time:	7.05 min
End Time:	7.70 min



Sample Name: "1202028673" Sample ID: "947078|2|LER" File: "EXS02130015.wiff"
Peak Name: "3S-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	592. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:52:42 PM
Modified:	Yes
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:	8.39 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.39 min
Area:	3.56e+006 counts
Height:	740371.582 cps
Start Time:	8.31 min
End Time:	8.60 min



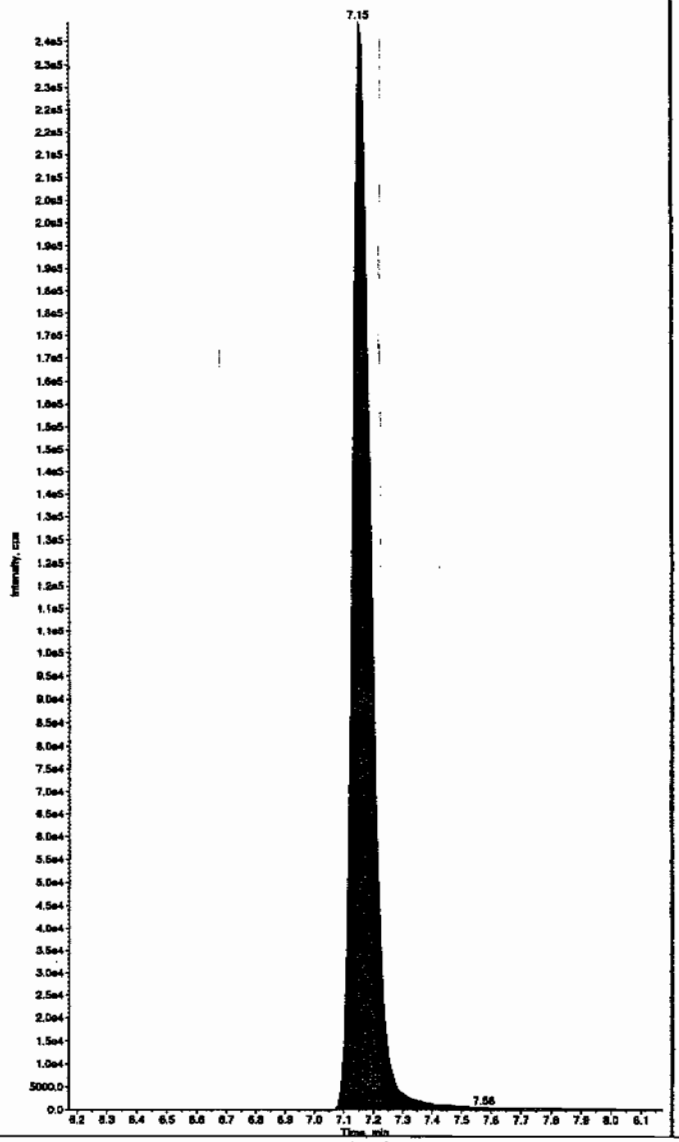
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

after Jan 2/15/10

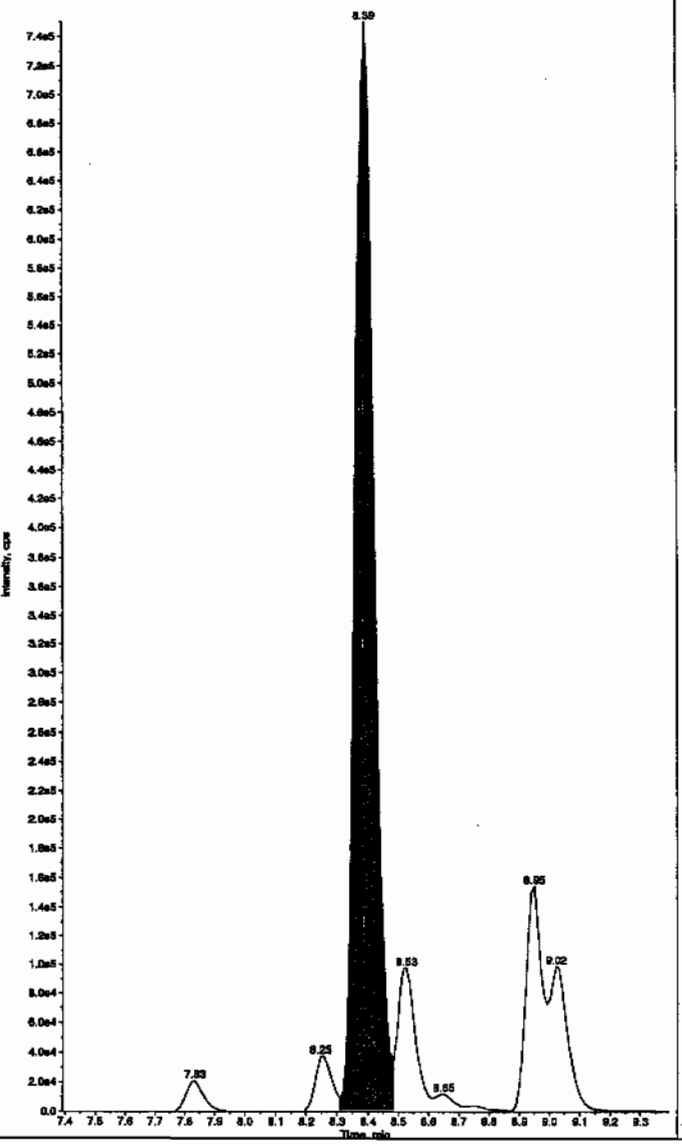
Sample Name: "1202028673" Sample ID: "947078[2]LER" File: "EXS02130015.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	710. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:52:42 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.15 min
Area:	1.10e+006 counts
Height:	239441.803 cps
Start Time:	7.05 min
End Time:	7.70 min



Sample Name: "1202028673" Sample ID: "947078[2]LER" File: "EXS02130015.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	553. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:52:42 PM
Modified:	Yes
RT Window:	15.0 sec
Expected RT:	6.39 min
Use Relative RT:	No
Int. Type:	Manual
Retention Time:	8.39 min
Area:	3.33e+006 counts
Height:	748752.665 cps
Start Time:	8.31 min
End Time:	8.48 min

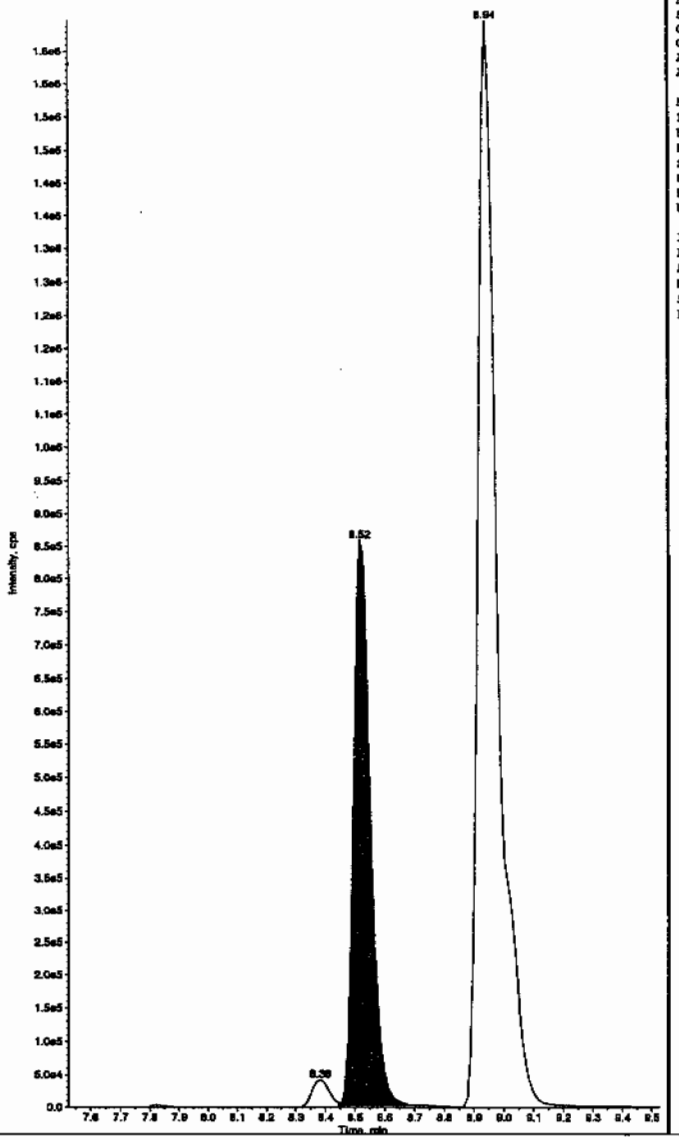


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

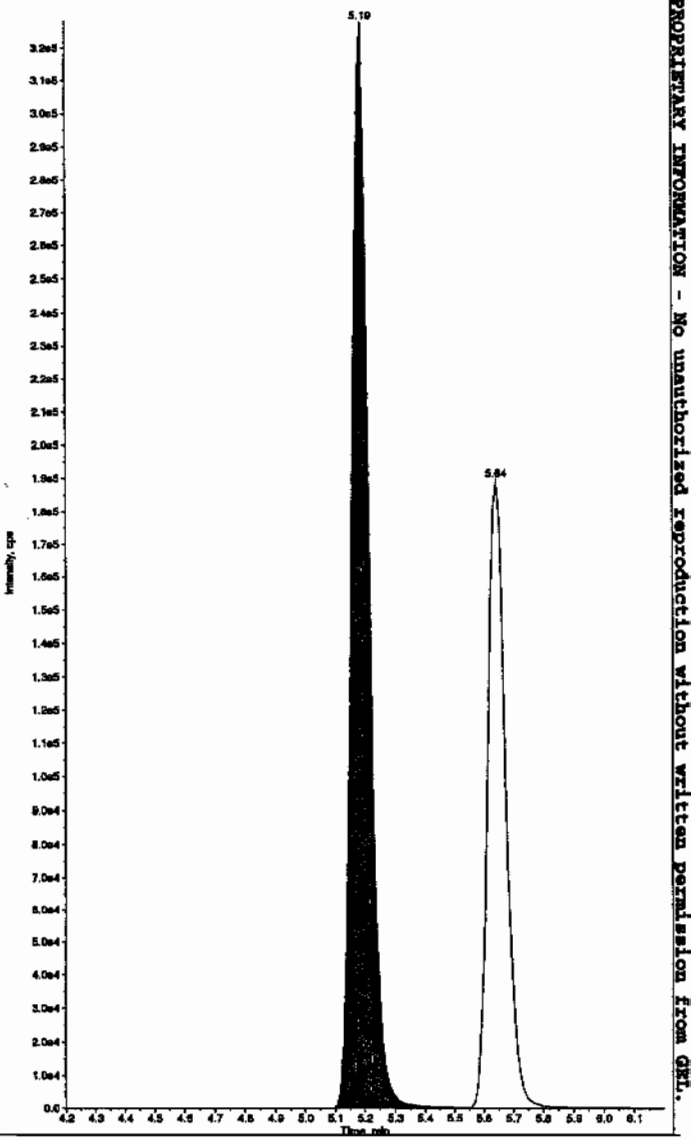
Sample Name: "1202028673" Sample ID: "947078|2|LER" File: "EXS02130015.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	295. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:52:42 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:	8.53 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.52 min
Area:	3.50e+006 counts
Height:	855713.135 cps
Start Time:	8.44 min
End Time:	8.71 min



Sample Name: "1202028673" Sample ID: "947078|2|LER" File: "EXS02130015.wiff"
Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	521. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	1:52:42 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	450.00 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	5.20 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.19 min
Area:	1.36e+006 counts
Height:	328724.609 cps
Start Time:	5.08 min
End Time:	5.47 min



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

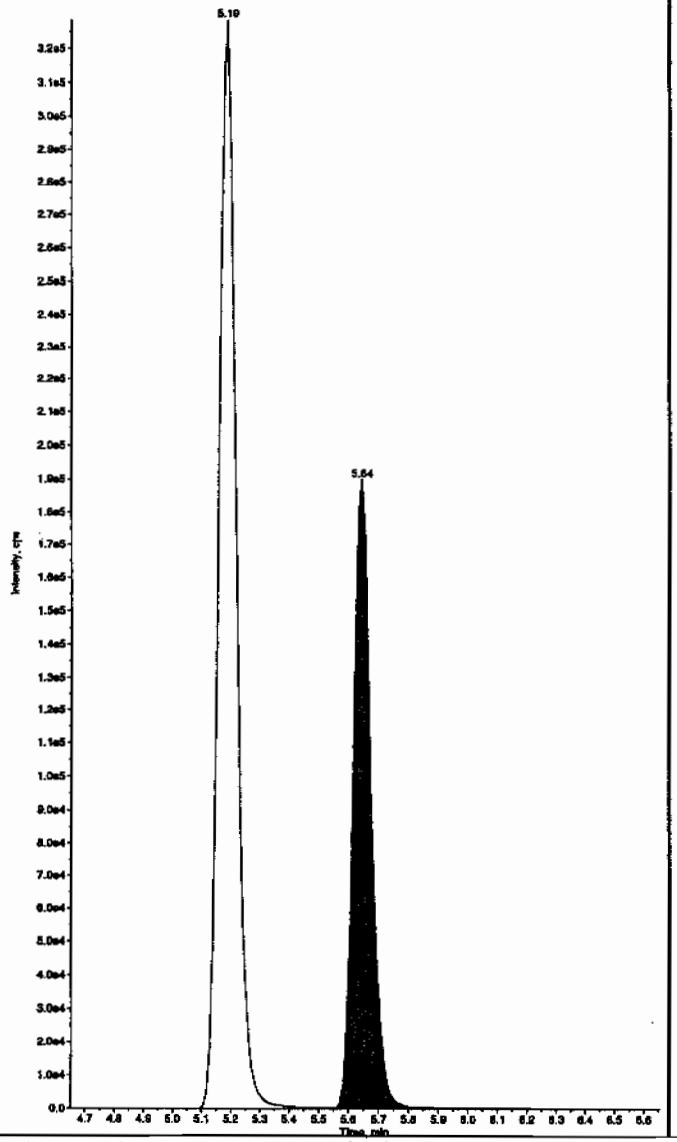
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "1202028673" Sample ID: "9470782|LER" File: "EXS02130015.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 466. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 1:52:42 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: 5.65 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.64 min
Area: 8.07e+005 counts
Height: 189887.833 cps
Start Time: 5.55 min
End Time: 6.04 min

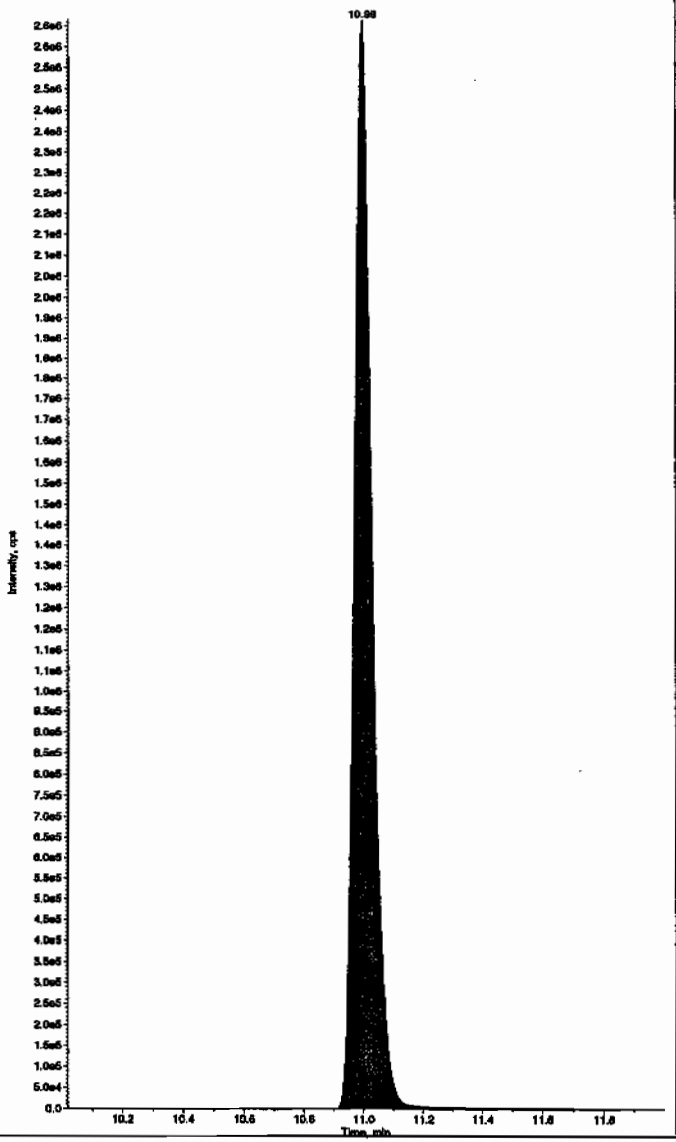


Sample Name: "1202028673" Sample ID: "9470782|LER" File: "EXS02130015.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 520. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 1:52:42 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1.00e4 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 11.0 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 11.0 min
Area: 1.11e+007 counts
Height: 2616611.328 cps
Start Time: 10.9 min
End Time: 11.3 min



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883(245686001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028674

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208186a

Date Analyzed: 12-FEB-10 09:44

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	6410	
121-14-2	2,4-Dinitrotoluene	5010	
121-82-4	RDX	4730	
19406-51-0	4-Amino-2,6-dinitrotoluene	4900	
2691-41-0	HMX	4280	
35572-78-2	2-Amino-4,6-dinitrotoluene	5200	
479-45-8	Tetryl	3490	
606-20-2	2,6-Dinitrotoluene	5070	
78-11-5	PETN	6370	
88-72-2	o-Nitrotoluene	4650	
98-95-3	Nitrobenzene	5030	
99-08-1	m-Nitrotoluene	4420	
99-35-4	1,3,5-Trinitrobenzene	4350	
99-65-0	m-Dinitrobenzene	5040	
99-99-0	p-Nitrotoluene	4860	

*Concentration =

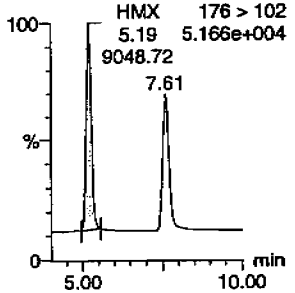
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208186a
Date: 12-Feb-2010
Time: 09:44:16
ID: 1202028674
Vial: 4:4,E

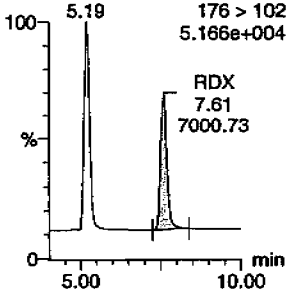
| LANL | 947078 | Soil | 245286001 MS | 2 |

MM 2/13/10

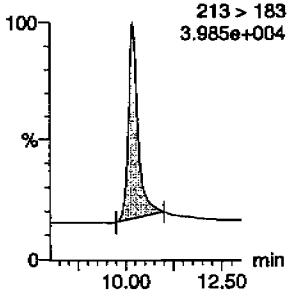
HMX



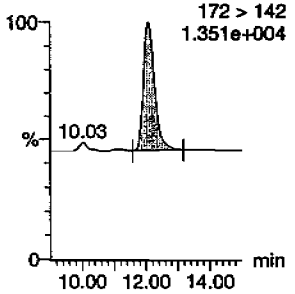
RDX



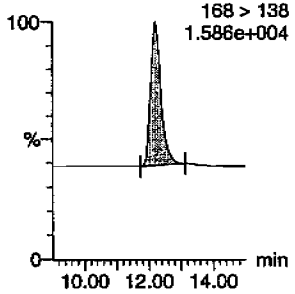
135-Trinitrobenzene



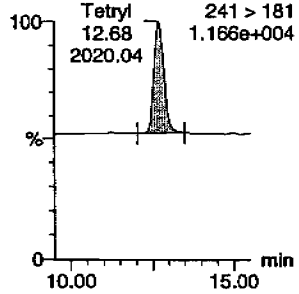
13-Dinitrobenzene-d4



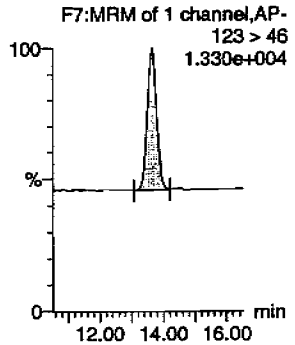
13-Dinitrobenzene



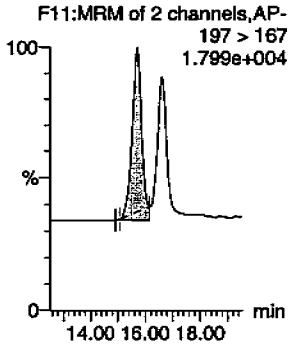
Tetryl



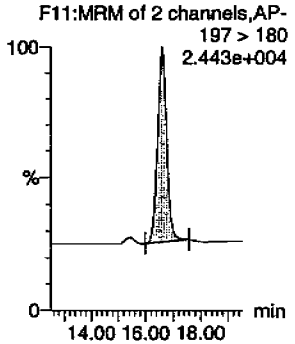
Nitrobenzene



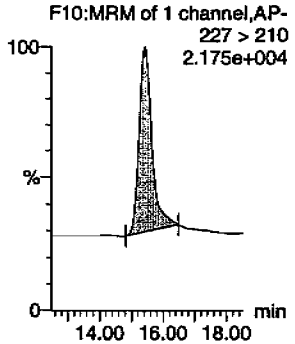
4-Amino-26-dinitrotoluene



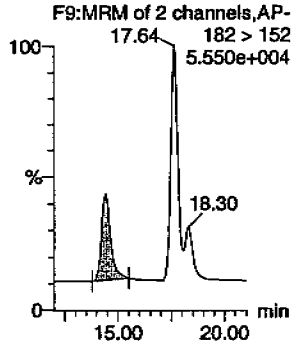
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

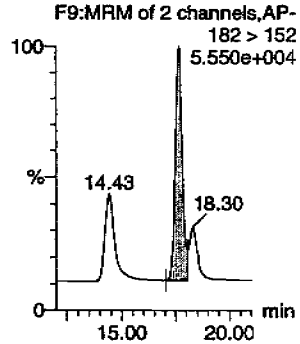


34-dinitrotoluene



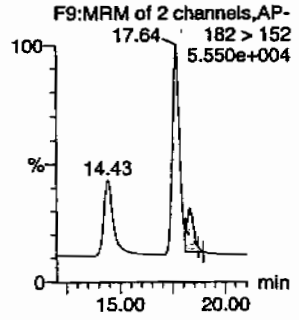
MM 02/13/10

26-dinitrotoluene

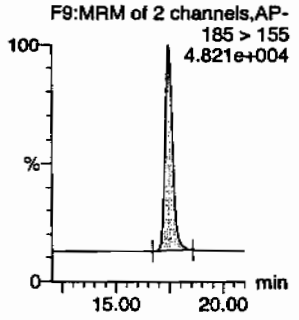


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

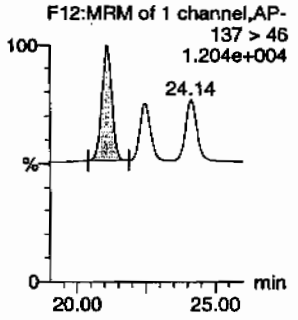
24-dinitrotoluene



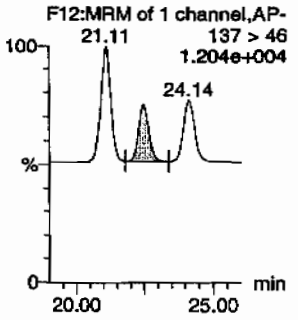
26-dinitrotoluene-d3



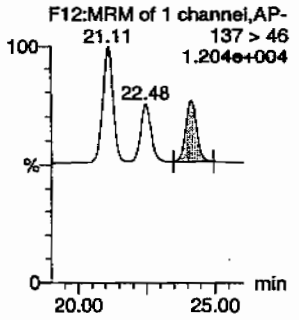
2-Nitrotoluene



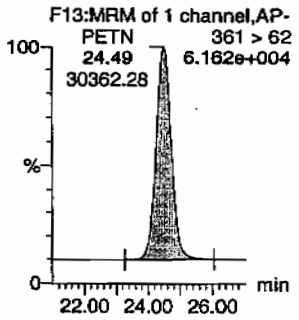
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
1202028674	HMX	176 > 102	5.19	9048.720	3045.194	9048.720	1485.738	bb			427.8209	85.6	-14.4	1883.4
1202028674	RDX	176 > 102	7.61	7000.728	3045.194	7000.728	1149.472	bb			473.3953	94.7	-5.3	1243.6
1202028674	135-Trinitrobenzene	213 > 183	10.20	9746.757	3045.194	9746.757	1600.351	bb			434.5171	86.9	-13.1	1464.5
1202028674	13-Dinitrobenzene-d4	172 > 142	12.07	3045.194		3045.194	3045.194	bb			473.6544	94.7	-5.3	212.1
1202028674	13-Dinitrobenzene	168 > 138	12.21	3687.896	3045.194	3687.896	605.527	bb			503.6007	100.7	0.7	426.0
1202028674	Tetryl	241 > 181	12.68	2020.036	3045.194	2020.036	331.676	bb			348.7762	69.8	-30.2	179.2
1202028674	Nitrobenzene	123 > 46	13.63	2476.291	3045.194	2476.291	406.590	bb			503.3483	100.7	0.7	178.2
1202028674	4-Amino-26-dinitrotoluene	197 > 167	15.71	4831.155	17171.072	4831.155	140.677	MM	13-Feb-10	09:20:09	489.7463	97.9	-2.1	301.4
1202028674	2-Amino-46-dinitrotoluene	197 > 180	16.60	7072.670	17171.072	7072.670	205.947	bb			520.0290	104.0	4.0	441.5
1202028674	246-Trinitrotoluene	227 > 210	15.45	7107.364	17171.072	7107.364	206.957	bb			641.4041	128.3	28.3	508.0
1202028674	34-dinitrotoluene	182 > 152	14.43	8852.771	17171.072	8852.771	257.782	bb			286.4265	114.6	14.6	200.3
1202028674	26-dinitrotoluene	182 > 152	17.64	18698.400	17171.072	18698.400	544.474	MM	13-Feb-10	09:25:05	506.9174	101.4	1.4	550.8
1202028674	24-dinitrotoluene	182 > 152	18.30	4200.726	17171.072	4200.726	122.320	MM	13-Feb-10	09:27:28	501.2051	100.2	0.2	115.7
1202028674	26-dinitrotoluene-d3	185 > 155	17.47	17171.072		17171.072	17171.072	bb			465.0967	93.0	-7.0	1182.1
1202028674	2-Nitrotoluene	137 > 46	21.11	2477.262	17171.072	2477.262	72.135	bb			465.2408	93.0	-7.0	909.9
1202028674	4-Nitrotoluene	137 > 46	22.48	1267.992	17171.072	1267.992	36.922	bb			485.8032	97.2	-2.8	447.1
1202028674	3-Nitrotoluene	137 > 46	24.14	1415.451	17171.072	1415.451	41.216	bb			442.3698	88.5	-11.5	473.2
1202028674	PETN	361 > 62	24.49	30362.279	17171.072	30362.279	884.111	bb			637.2418	127.4	27.4	7874.5

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883(245686001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028674

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130018.wiff

Date Analyzed: 13-FEB-10 14:39

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	9430	
59229-75-3	2,6-Diamino-4-nitrotoluene	5350	
618-87-1	3,5-Dinitroaniline	6110	
6629-29-4	2,4-Diamino-6-nitrotoluene	4520	
78-30-8	tris(o-cresyl) phosphate	5320	

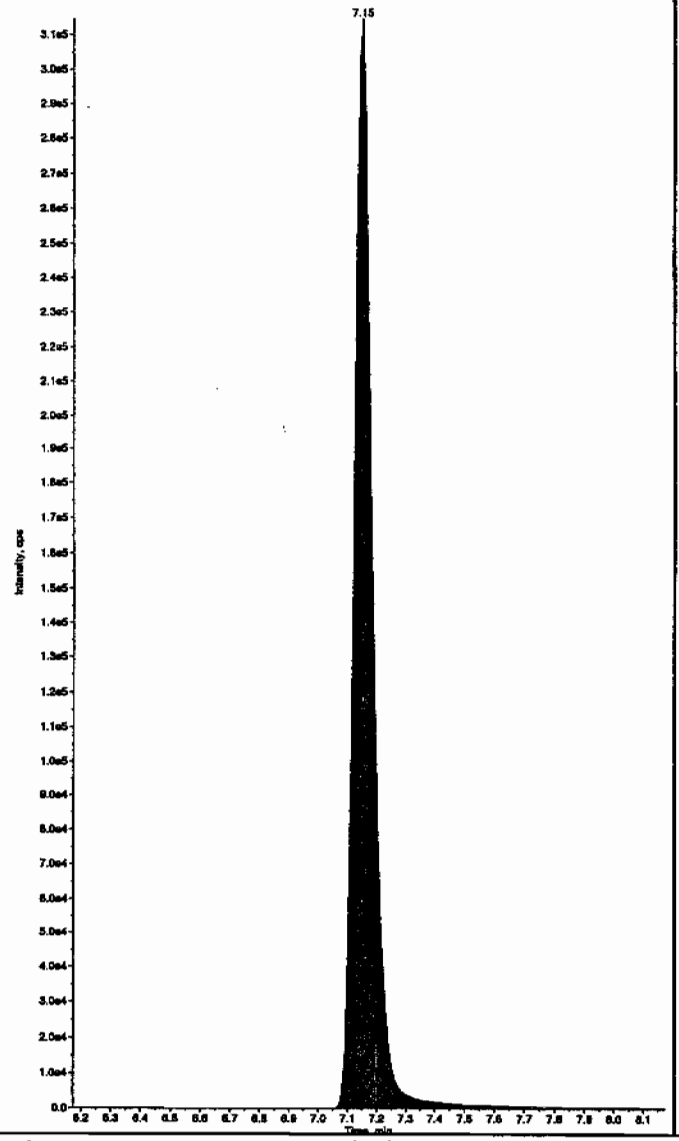
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Before Clan 2/15/10

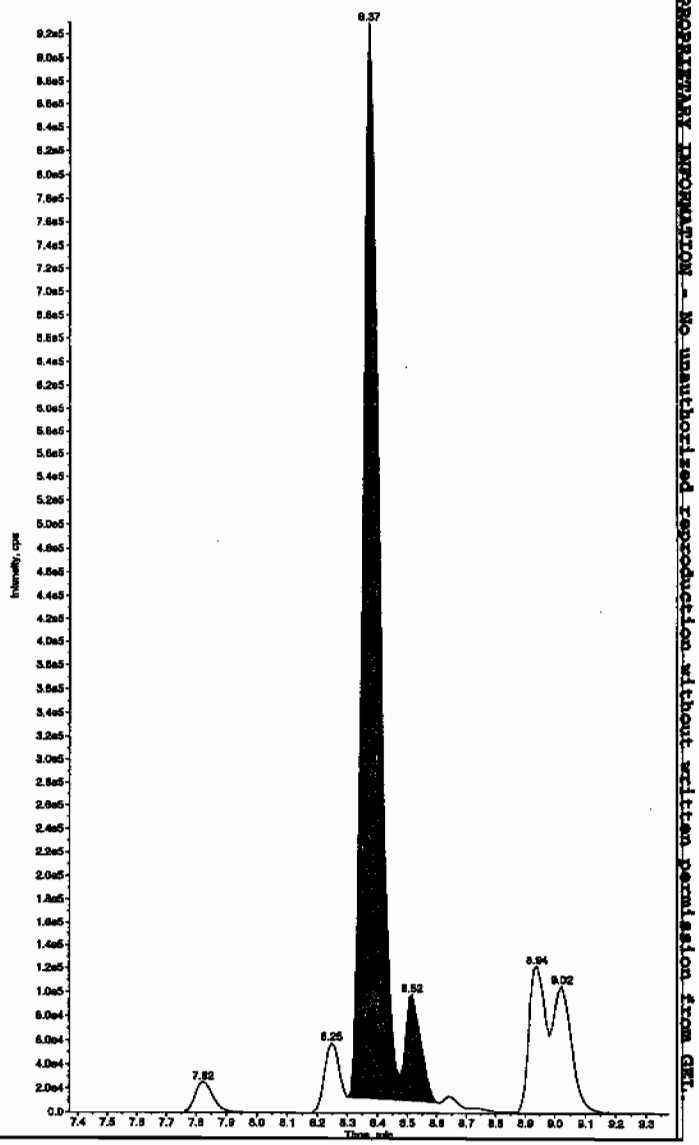
Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130018.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	943. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:39:51 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.15 min
Area:	1.44e+006 counts
Height:	314680.542 cps
Start Time:	7.03 min
End Time:	7.71 min



Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130018.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	651. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:39:51 PM
Modified:	Yes
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:	8.37 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.37 min
Area:	3.90e+006 counts
Height:	918492.004 cps
Start Time:	8.30 min
End Time:	8.60 min



Hmm 02/16/10

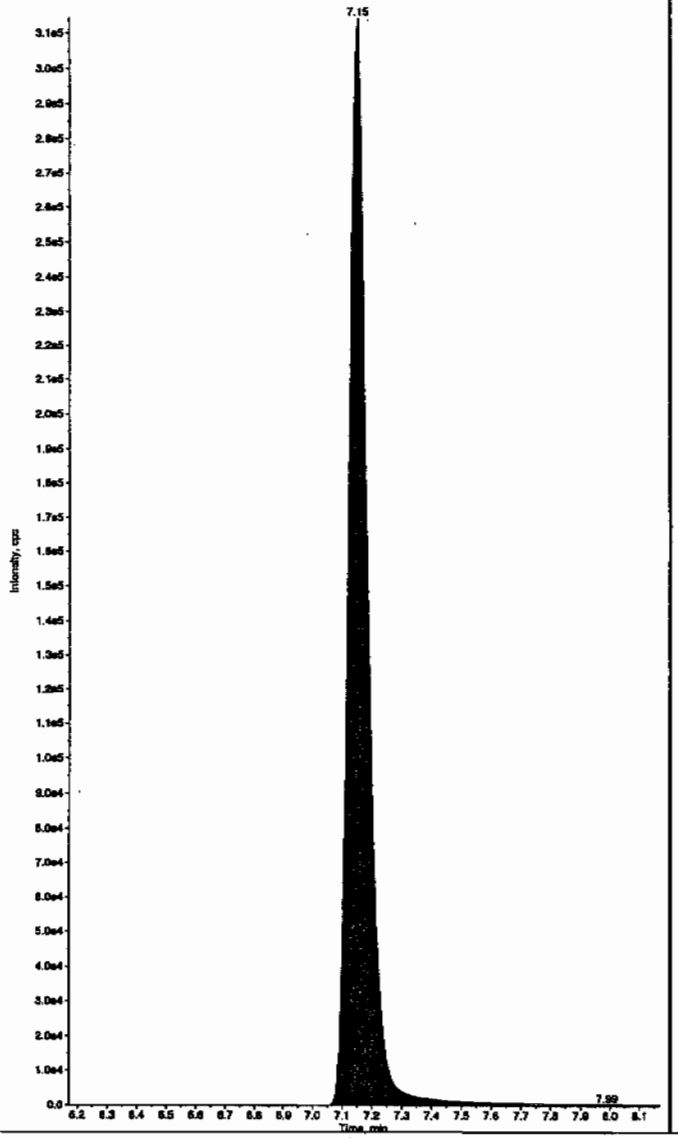
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

after Sar 2/15/10

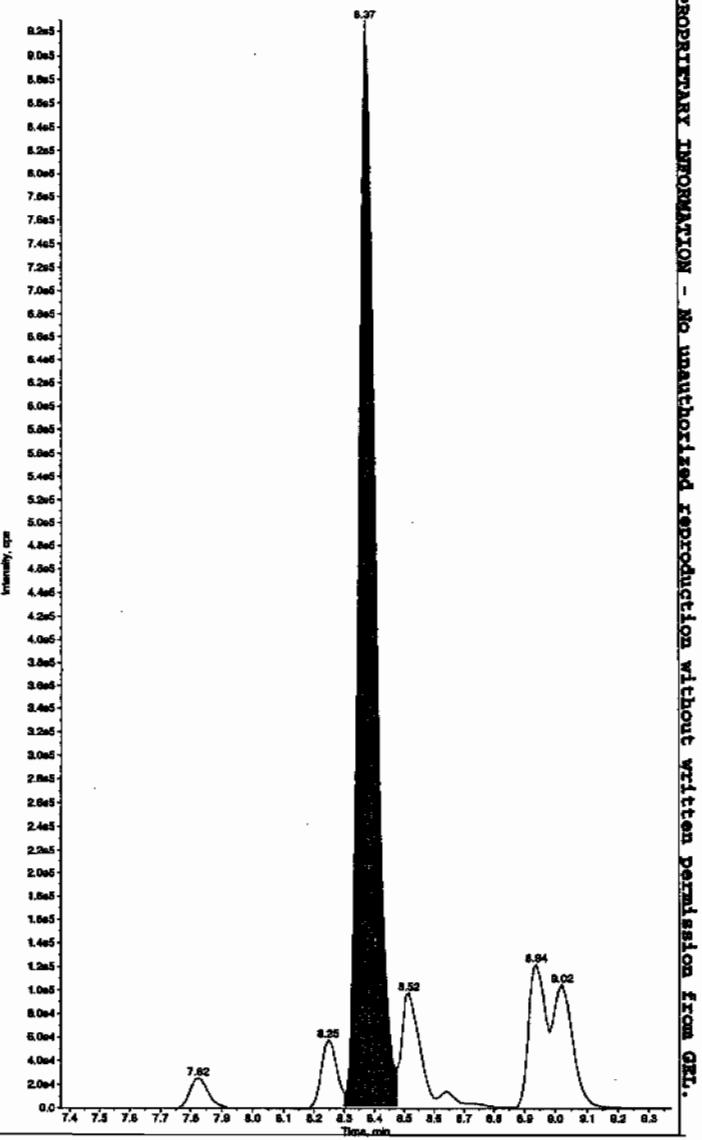
Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130016.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	943. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:39:51 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.15 min
Area:	1.44e+006 counts
Height:	314680.542 cps
Start Time:	7.03 min
End Time:	7.71 min



Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130018.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	611. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:39:51 PM
Modified:	Yes
RT Window:	15.0 sec
Expected RT:	8.37 min
Use Relative RT:	No
Int. Type:	Manual
Retention Time:	8.37 min
Area:	3.67e+006 counts
Height:	930523.423 cps
Start Time:	8.30 min
End Time:	8.47 min

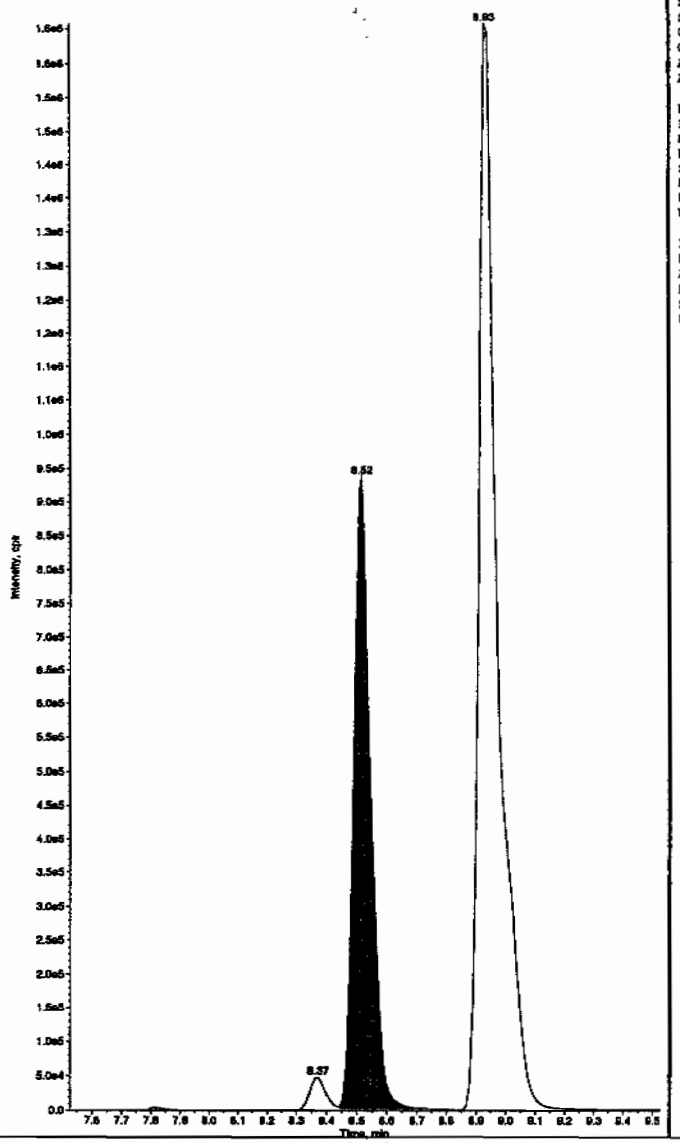


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

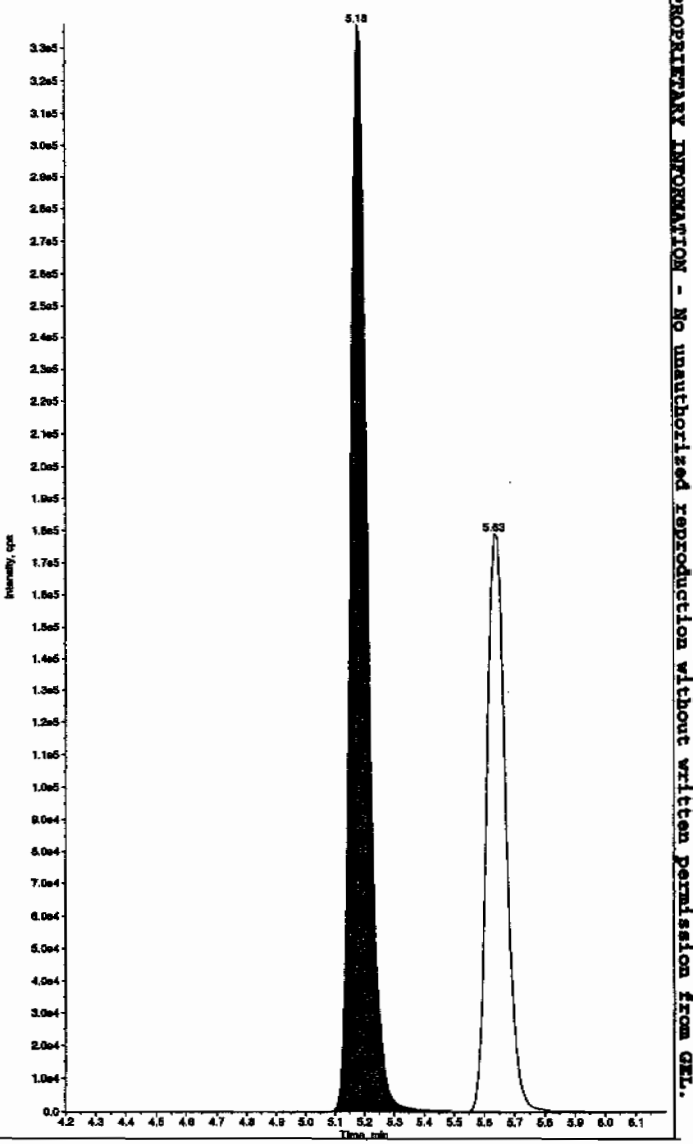
Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130018.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	314.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	2:39:51 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:	8.53	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	8.52	min
Area:	3.72e+006	counts
Height:	935629.395	cps
Start Time:	8.44	min
End Time:	8.70	min



Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130018.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	535.	ng/mL
Acq. Date:	2/13/2010	
Acq. Time:	2:39:51 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:	5.20	min
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	5.18	min
Area:	1.39e+006	counts
Height:	337470.978	cps
Start Time:	5.05	min
End Time:	5.44	min

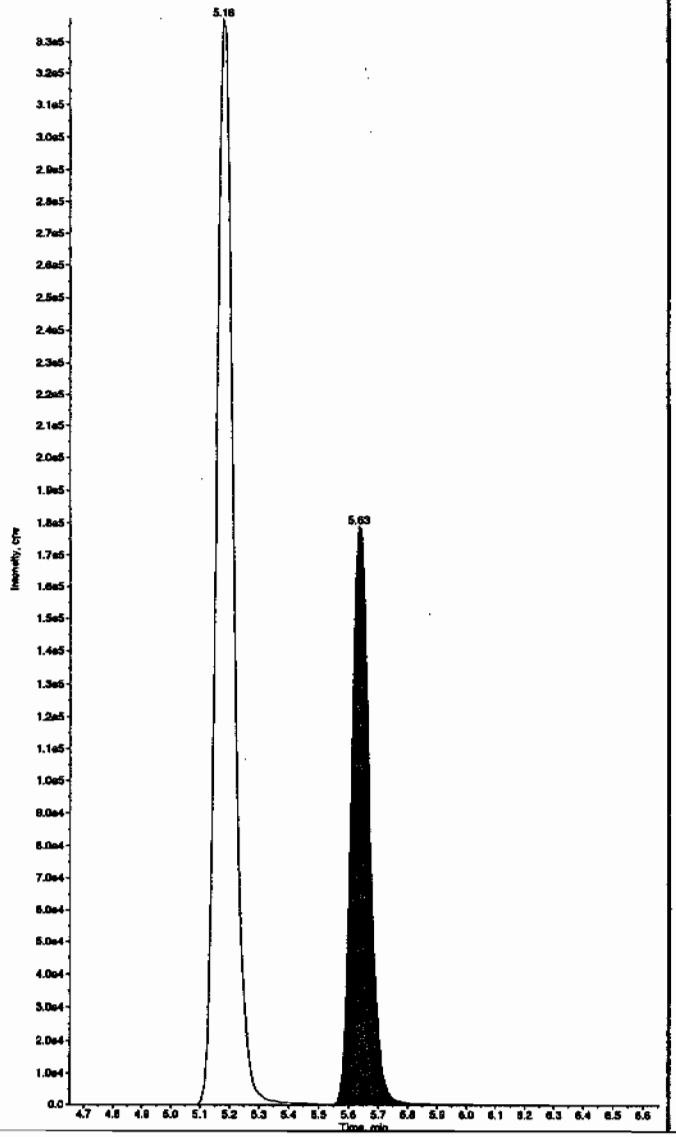


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

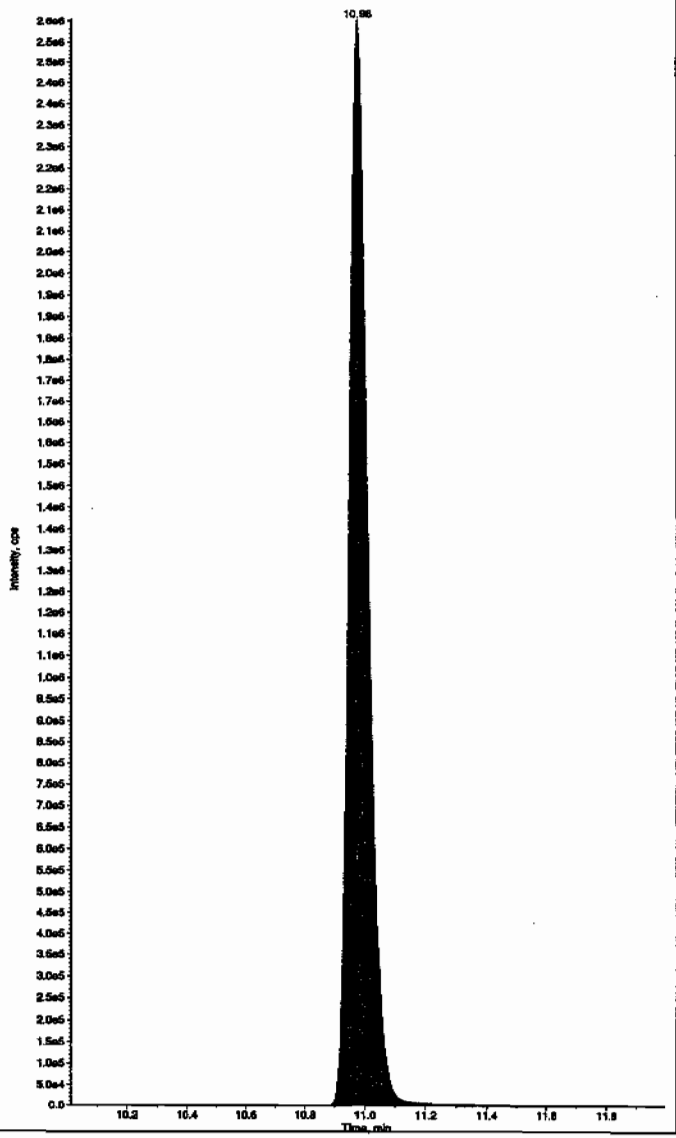
Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130018.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	452. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:39:51 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	350.00 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	5.65 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.63 min
Area:	7.82e+005 counts
Height:	179076.508 cps
Start Time:	5.52 min
End Time:	5.98 min



Sample Name: "1202028674" Sample ID: "947078|2|LER" File: "EXS02130018.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	532. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:39:51 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	1.14e+007 counts
Height:	2556080.565 cps
Start Time:	10.9 min
End Time:	11.3 min



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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883(245686001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028675

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208187a

Date Analyzed: 12-FEB-10 10:13

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5050	
121-14-2	2,4-Dinitrotoluene	5510	
121-82-4	RDX	5370	
19406-51-0	4-Amino-2,6-dinitrotoluene	4720	
2691-41-0	HMX	4890	
35572-78-2	2-Amino-4,6-dinitrotoluene	5100	
479-45-8	Tetryl	3450	
606-20-2	2,6-Dinitrotoluene	5060	
78-11-5	PETN	5850	
88-72-2	o-Nitrotoluene	4500	
98-95-3	Nitrobenzene	5120	
99-08-1	m-Nitrotoluene	4090	
99-35-4	1,3,5-Trinitrobenzene	4710	
99-65-0	m-Dinitrobenzene	5380	
99-99-0	p-Nitrotoluene	4430	

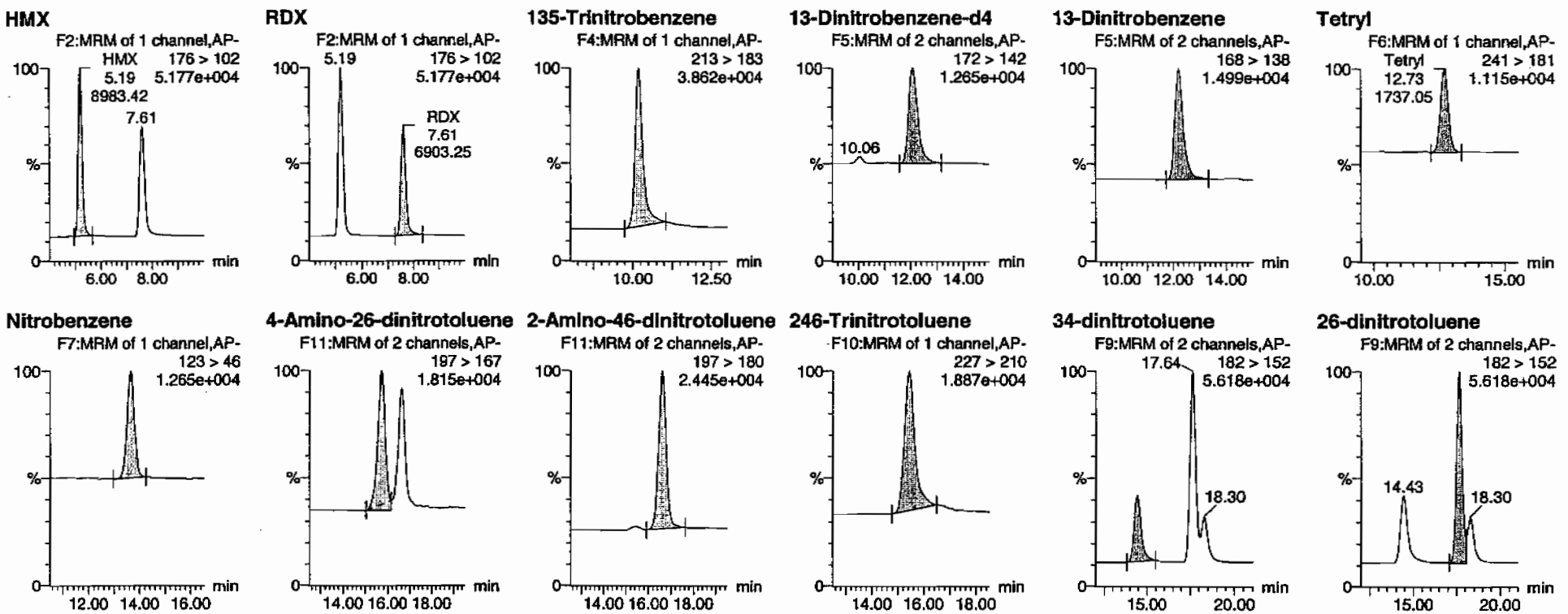
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0208187a
Date: 12-Feb-2010
Time: 10:13:44
ID: 1202028675 | LANL | 947078 | SOLID | 245686001MSD | 2 |
Vial: 4:4,F

MAP 2/13/10



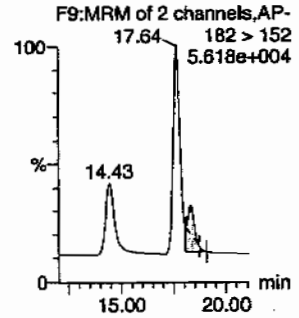
Hnm 02/13/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

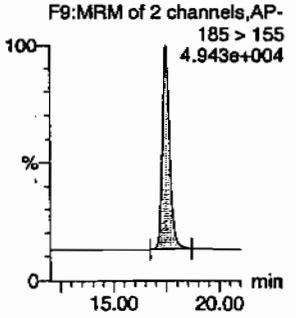
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Dataset: C:\MASSLYNX\New_Exp.PRO\020810expA4.qld, Time: Sat Feb 13 09:30:34 2010

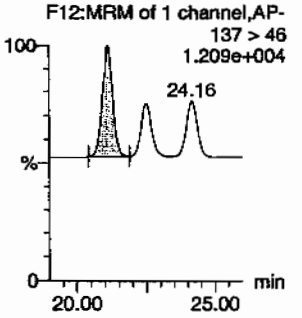
24-dinitrotoluene



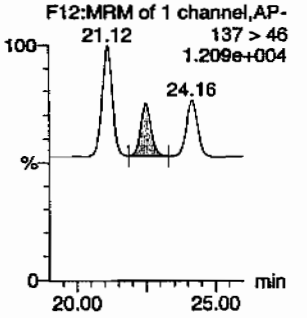
26-dinitrotoluene-d3



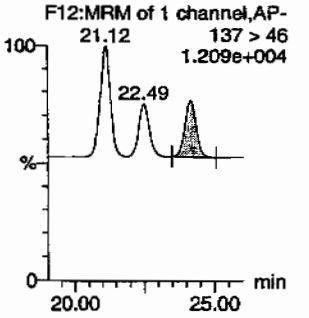
2-Nitrotoluene



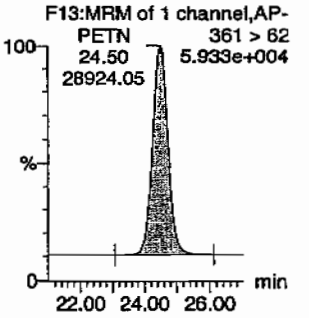
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace Name	RT	Area	IS Area	Abs Resp	Response	Flags	ModDate	ModTime	Conc	%Rec	%Dev	S/N
1202028675	HMX	176 > 102	5.19	8983.422	2646.461	8983.422	1697.252	bb			488.7267	97.7	-2.3	911.8
1202028675	RDX	176 > 102	7.61	6903.254	2646.461	6903.254	1304.243	bb			537.1358	107.4	7.4	596.2
1202028675	135-Trinitrobenzene	213 > 183	10.19	9186.083	2646.461	9186.083	1735.541	bb			471.2231	94.2	-5.8	579.1
1202028675	13-Dinitrobenzene-d4	172 > 142	12.10	2646.461		2646.461	2646.461	bb			411.6348	82.3	-17.7	226.4
1202028675	13-Dinitrobenzene	168 > 138	12.21	3421.943	2646.461	3421.943	646.513	bb			537.6875	107.5	7.5	351.8
1202028675	Tetryl	241 > 181	12.73	1737.049	2646.461	1737.049	328.183	bb			344.8703	69.0	-31.0	125.7
1202028675	Nitrobenzene	123 > 46	13.63	2189.648	2646.461	2189.648	413.694	bb			512.1423	102.4	2.4	160.4
1202028675	4-Amino-26-dinitrotoluene	197 > 167	15.71	4770.499	17593.500	4770.499	135.576	MM	13-Feb-10	09:20:20	471.9861	94.4	-5.6	118.3
1202028675	2-Amino-46-dinitrotoluene	197 > 180	16.60	7108.845	17593.500	7108.845	202.030	bb			510.1388	102.0	2.0	653.7
1202028675	246-Trinitrotoluene	227 > 210	15.45	5732.267	17593.500	5732.267	162.909	bb			504.8876	101.0	1.0	745.4
1202028675	34-dinitrotoluene	182 > 152	14.43	8238.457	17593.500	8238.457	234.134	bb			260.1507	104.1	4.1	258.7
1202028675	26-dinitrotoluene	182 > 152	17.64	19125.213	17593.500	19125.213	543.531	MM	13-Feb-10	09:24:54	506.0393	101.2	1.2	754.0
1202028675	24-dinitrotoluene	182 > 152	18.30	4735.646	17593.500	4735.646	134.585	MM	13-Feb-10	09:27:40	551.4619	110.3	10.3	170.7
1202028675	26-dinitrotoluene-d3	185 > 155	17.47	17593.500		17593.500	17593.500	bb			476.5386	95.3	-4.7	1423.8
1202028675	2-Nitrotoluene	137 > 46	21.12	2453.010	17593.500	2453.010	69.714	bb			449.6248	89.9	-10.1	402.1
1202028675	4-Nitrotoluene	137 > 46	22.49	1184.741	17593.500	1184.741	33.670	bb			443.0089	88.6	-11.4	187.9
1202028675	3-Nitrotoluene	137 > 46	24.16	1342.122	17593.500	1342.122	38.143	bb			409.3811	81.9	-18.1	199.6
1202028675	PETN	361 > 62	24.50	28924.047	17593.500	28924.047	822.009	bb			584.6264	116.9	16.9	4236.5

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7883(245686001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1432

Matrix: SOIL

GEL Sample ID: 1202028675

Sample Amount 2

Moisture: 31.1

Amount Units g

Date Received: 28-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947076

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02130019.wiff

Date Analyzed: 13-FEB-10 14:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	7460	
59229-75-3	2,6-Diamino-4-nitrotoluene	4780	
618-87-1	3,5-Dinitroaniline	5530	
6629-29-4	2,4-Diamino-6-nitrotoluene	4330	
78--30-8	tris(o-cresyl) phosphate	5130	

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

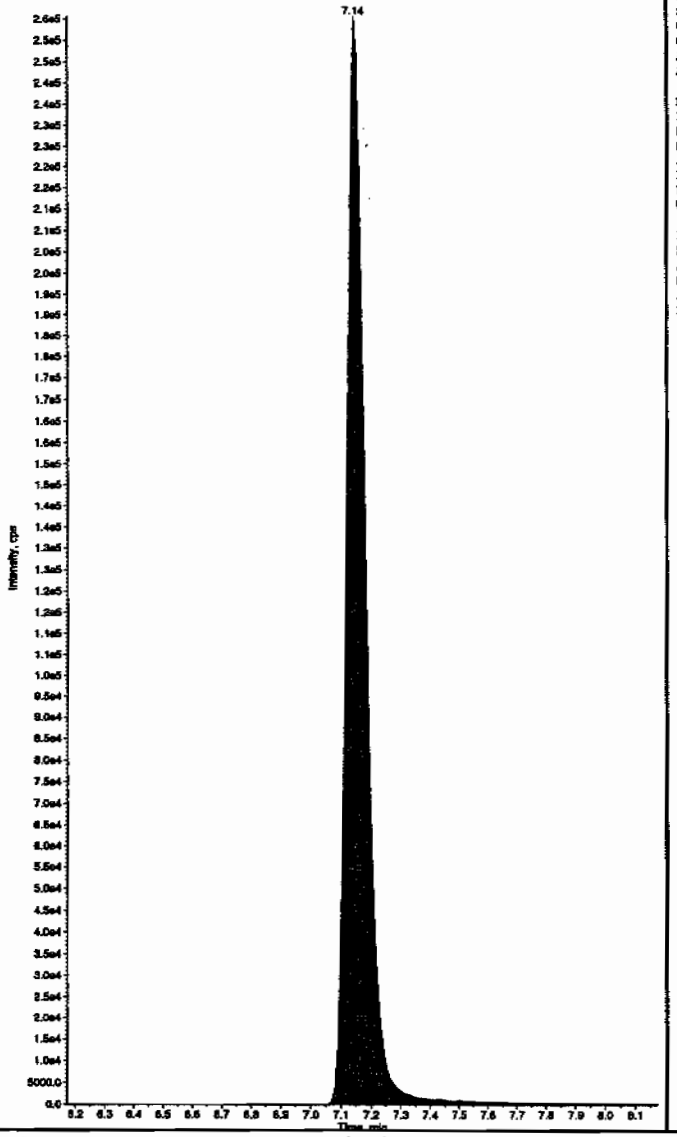
Before Dan 2/15/10

Sample Name: "1202028675" Sample ID: "9470782|LER" File: "EXS02130019.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 746. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 2:55:34 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: 7.17 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.14 min
Area: 1.15e+006 counts
Height: 255641.098 cps
Start Time: 7.00 min
End Time: 7.79 min

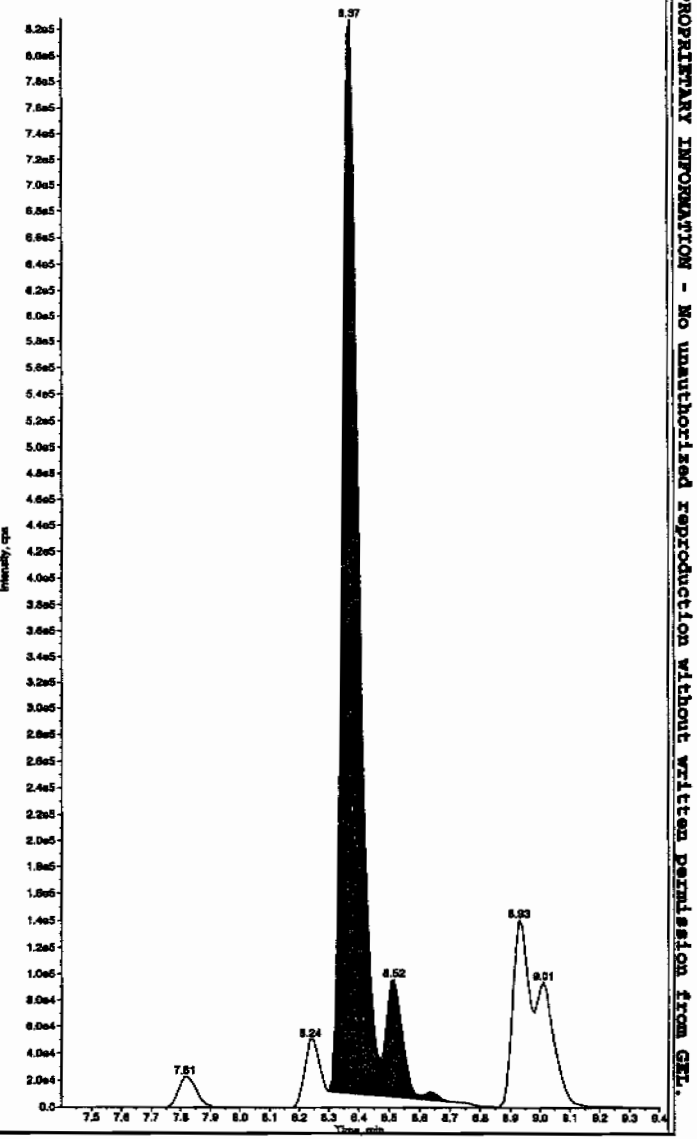


Sample Name: "1202028675" Sample ID: "9470782|LER" File: "EXS02130019.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 604. ng/mL
Acq. Date: 2/13/2010
Acq. Time: 2:55:34 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: 8.40 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.37 min
Area: 3.63e+006 counts
Height: 818157.898 cps
Start Time: 8.30 min
End Time: 8.70 min



Hanna 2/16/10

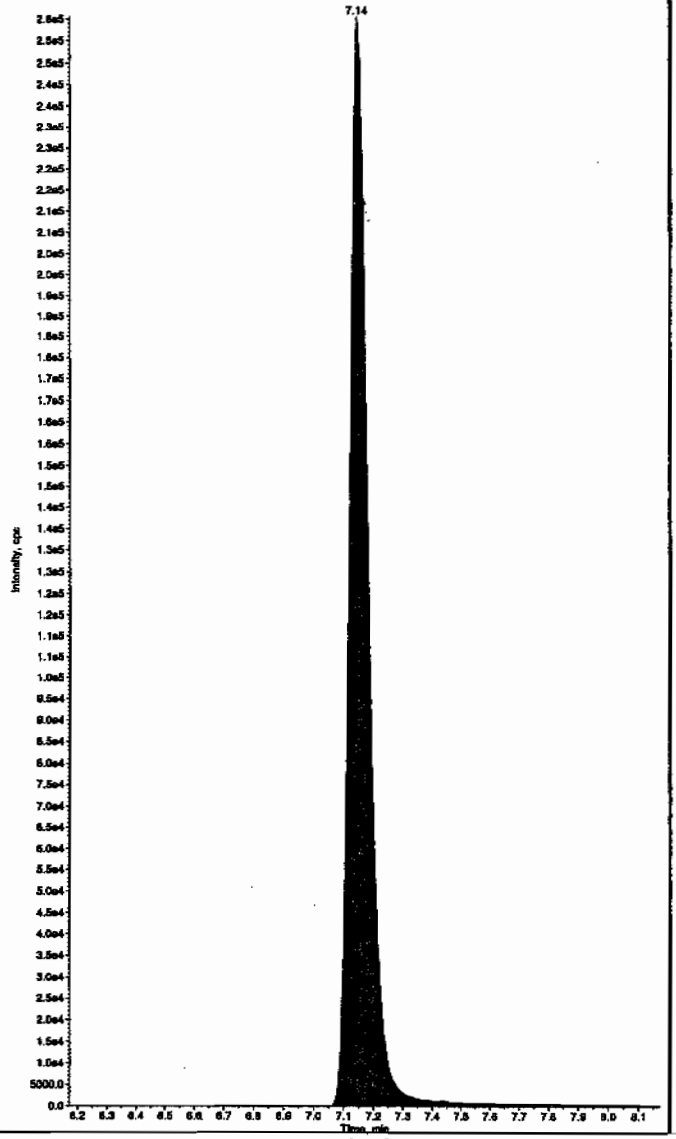
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

after Scan 2/15/10

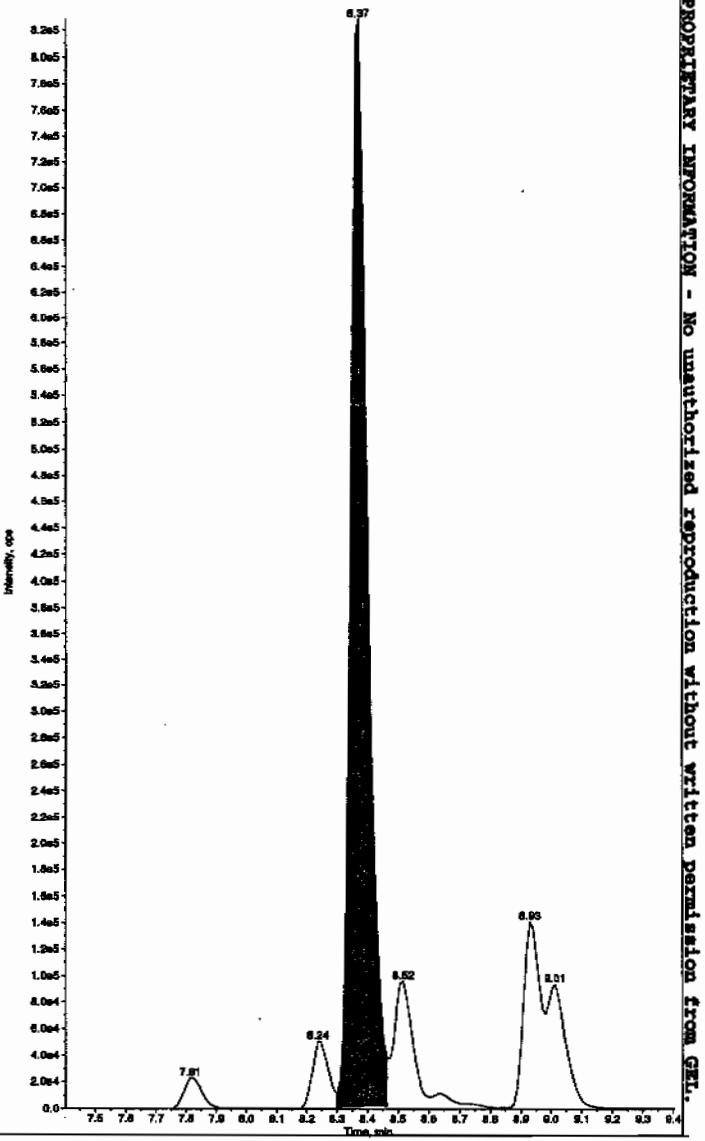
Sample Name: "1202028675" Sample ID: "947078[2]LER" File: "EXS02130019.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	746. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:55:34 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:	7.17 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	7.14 min
Area:	1.15e+006 counts
Height:	255641.098 cps
Start Time:	7.00 min
End Time:	7.79 min



Sample Name: "1202028675" Sample ID: "947078[2]LER" File: "EXS02130019.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	553. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:55:34 PM
Modified:	Yes
RT Window:	15.0 sec
Expected RT:	8.40 min
Use Relative RT:	No
Int. Type:	Manual
Retention Time:	8.37 min
Area:	3.33e+006 counts
Height:	835212.329 cps
Start Time:	8.30 min
End Time:	8.46 min

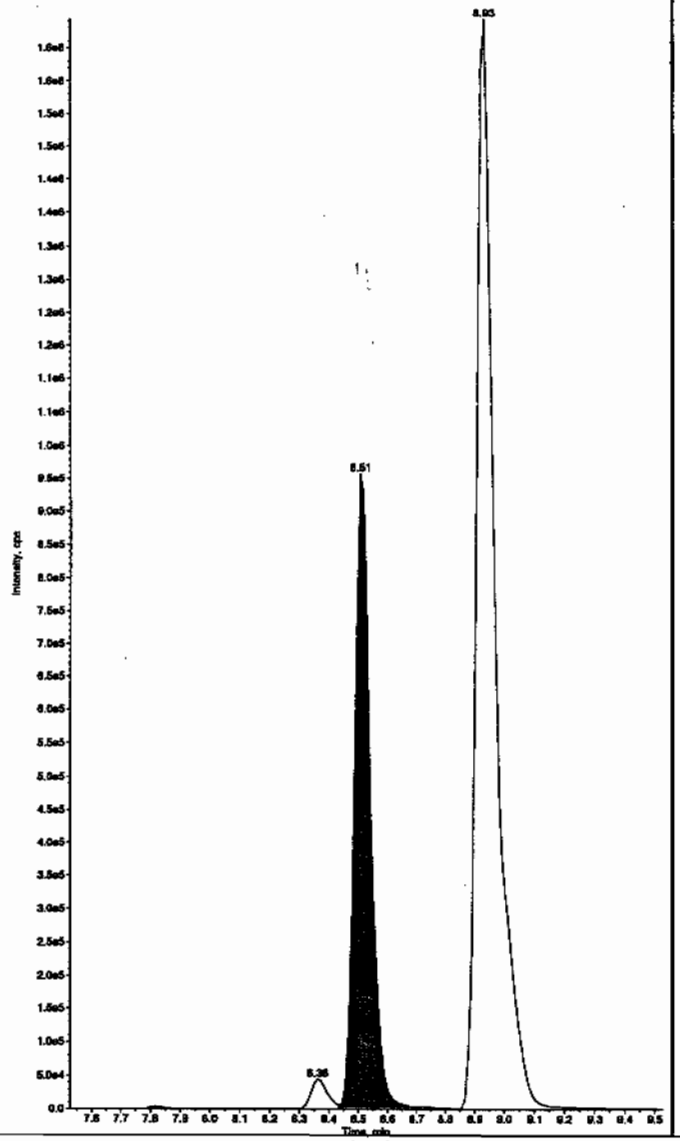


PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

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

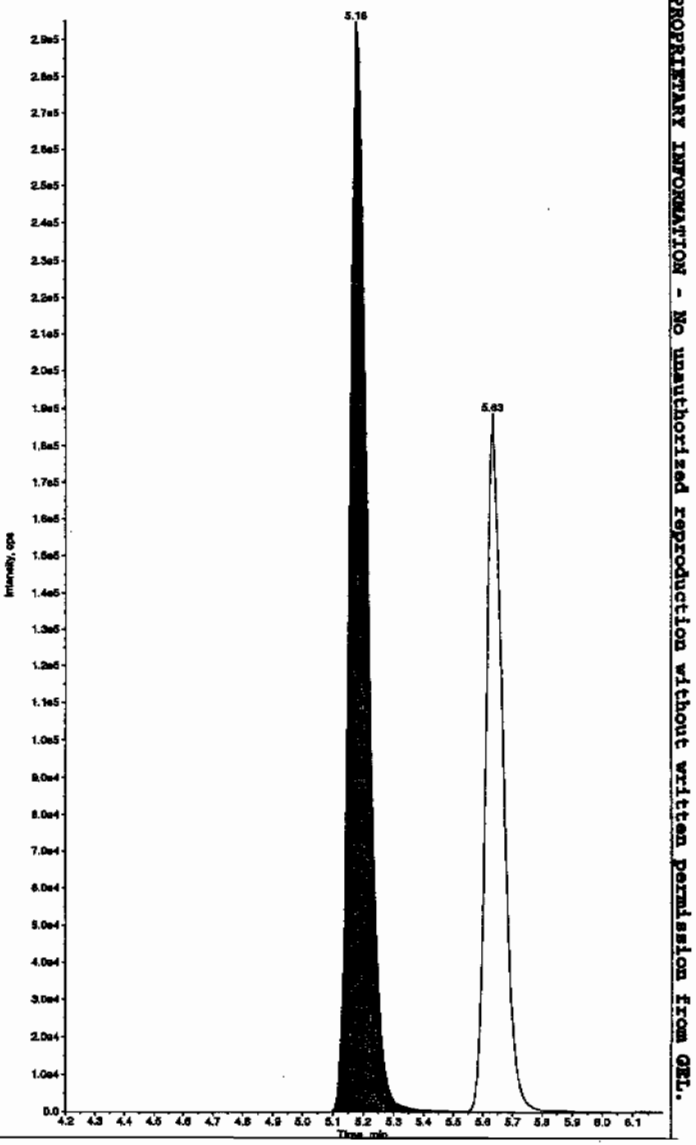
Sample Name: "1202028675" Sample ID: "947078[2]LER" File: "EXS02130019.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	312. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:55:34 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:	8.53 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.51 min
Area:	3.69e+006 counts
Height:	954845.825 cps
Start Time:	8.43 min
End Time:	8.69 min



Sample Name: "1202028675" Sample ID: "947078[2]LER" File: "EXS02130019.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	478. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:55:34 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	450.00 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	5.20 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.18 min
Area:	1.24e+006 counts
Height:	295212.555 cps
Start Time:	5.06 min
End Time:	5.44 min

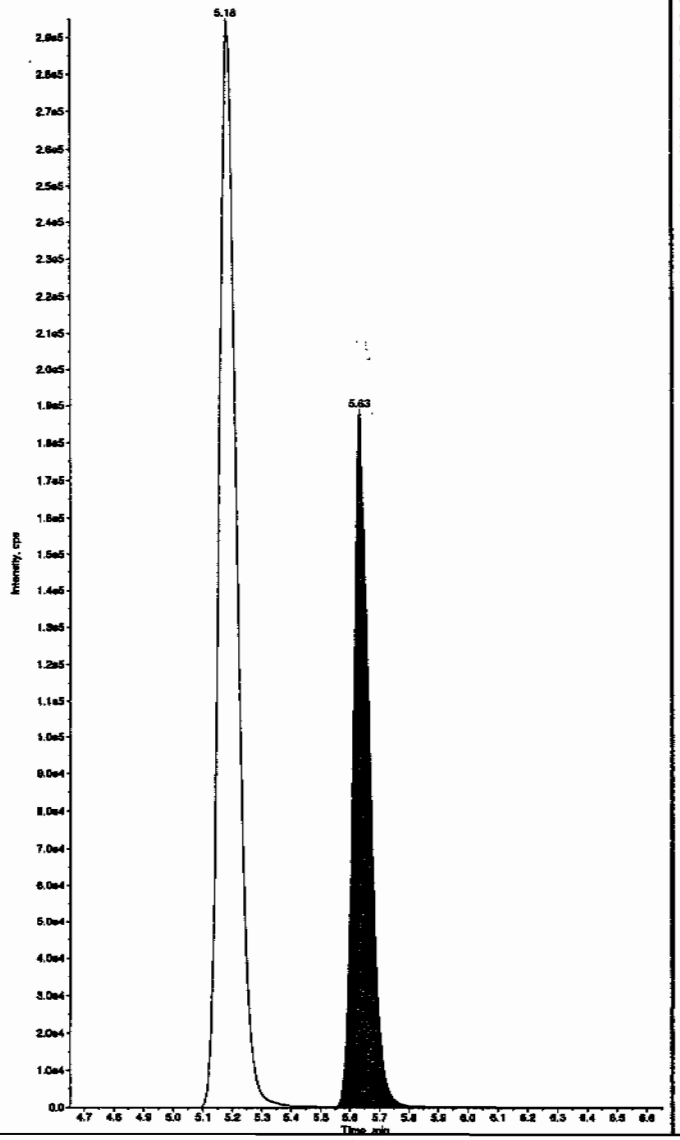


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

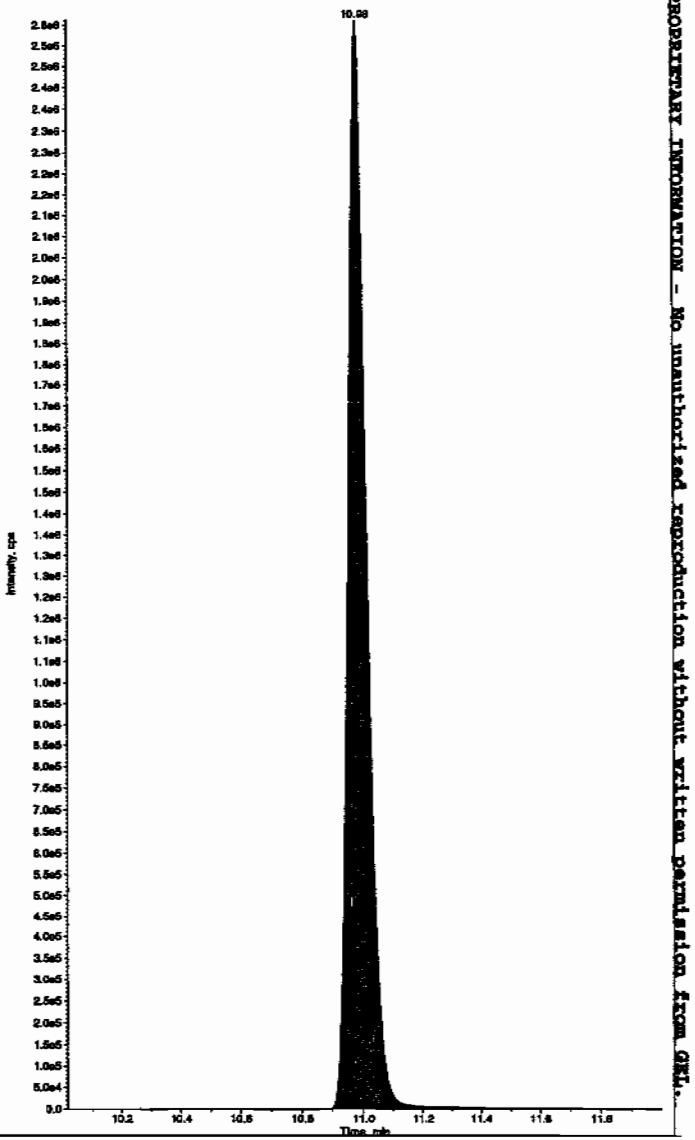
Sample Name: "1202028675" Sample ID: "947078|2|LER" File: "EXS02130019.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	433. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:55:34 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:	5.65 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	5.63 min
Area:	7.50e+005 counts
Height:	188968.826 cps
Start Time:	5.52 min
End Time:	5.97 min



Sample Name: "1202028675" Sample ID: "947078|2|LER" File: "EXS02130019.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	513. ng/mL
Acq. Date:	2/13/2010
Acq. Time:	2:55:34 PM
Modified:	No
Proc. Algorithm:	IntelliQuan - IQA
Min. Peak Height:	1.00e4 cps
Min. Peak Width:	0.00 sec
Smoothing Width:	3 points
RT Window:	30.0 sec
Expected RT:	11.0 min
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	11.0 min
Area:	1.10e+007 counts
Height:	2562492.188 cps
Start Time:	10.9 min
End Time:	11.4 min



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

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

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

MISCELLANEOUS DATA

Prep Logbook

Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 947076 **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)
1202028672 MB	04-FEB-2010 13:16:00	2	10	5
1202028673 LCS	04-FEB-2010 13:16:00	2	10	5
245661001	04-FEB-2010 13:16:00	2	10	5
245686001	04-FEB-2010 13:16:00	2	10	5
1202028674 MS (245686001)	04-FEB-2010 13:16:00	2	10	5
1202028675 MSD (245686001)	04-FEB-2010 13:16:00	2	10	5
245686002	04-FEB-2010 13:16:00	2	10	5
245686003	04-FEB-2010 13:16:00	2	10	5
245686004	04-FEB-2010 13:16:00	2	10	5
245686005	04-FEB-2010 13:16:00	2	10	5
245686006	04-FEB-2010 13:16:00	2	10	5
245686007	04-FEB-2010 13:16:00	2	10	5
245686008	04-FEB-2010 13:16:00	2	10	5
245686009	04-FEB-2010 13:16:00	2	10	5
245686010	04-FEB-2010 13:16:00	2	10	5
245686011	04-FEB-2010 13:16:00	2	10	5
245686012	04-FEB-2010 13:16:00	2	10	5
245686013	04-FEB-2010 13:16:00	2	10	5
245686014	04-FEB-2010 13:16:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202028673	8321 Explosives LCS	DCX100125-03	.1	mL
LCS	1202028673	8321 LANL Explosives Mix 10mg/L	UXX100122-01.2	1	mL
MS	1202028674	8321 Explosives LCS	DCX100125-03	.1	mL
MS	1202028674	8321 LANL Explosives Mix 10mg/L	UXX100122-01.2	1	mL
MSD	1202028675	8321 Explosives LCS	DCX100125-03	.1	mL
MSD	1202028675	8321 LANL Explosives Mix 10mg/L	UXX100122-01.2	1	mL
SURR	All	3,4-Dinitrotoluene (8330 Surr.) 100ppm	DXP100125-02	.05	mL

Comments:

Final Solvent: ACN

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

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 02/08/10
Extr. Injection Volume: 50uL
Sequence Number: 020810expA
Initial Calibration Date: 02/08/10

Method: SW846 8321A-Modified
Int. Std.: UXX100128-01.1
Mobile Phase Lot#: 1265885, 1250738
Standard-Samp Reagent Lot#: 1260901, 1246195

Reviewed BY: Hnnc
Date: 02/13/10
SOP: GL-OA-E-056 Rev.12
Alt Check Std. ID: WXX100208-07 & WXX100211-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0208001a	XIBLK01	MAP	2/8/10 14:44			1		USE	B
EXP0208002a	XIBLK01	MAP	2/8/10 15:13			1		USE	B
EXP0208003a	WXXICAL-01	MAP	2/8/10 15:43			1		USE	I
EXP0208004a	WXXICAL-02	MAP	2/8/10 16:12			1		USE	I
EXP0208005a	WXXICAL-03	MAP	2/8/10 16:42			1		USE	I
EXP0208006a	WXXICAL-04	MAP	2/8/10 17:11			1		USE	I
EXP0208007a	WXXICAL-05	MAP	2/8/10 17:41			1		USE	I
EXP0208008a	WXXICAL-06	MAP	2/8/10 18:11			1		USE	I
EXP0208009a	XIBLK02	MAP	2/8/10 18:40			1		USE	B
EXP0208010a	WXXICV	MAP	2/8/10 19:10			1		USE	C
EXP0208011a	XIBLK03	MAP	2/8/10 19:39			1		USE	B
EXP0208012a	WXXCRI	MAP	2/8/10 20:09			1		USE	C
EXP0208013a	1202021906	MAP	2/8/10 20:38	944246	10-1304	2	LANL	DUSE-RA	S
EXP0208014a	1202021907	MAP	2/8/10 21:08	944246	10-1304	2	LANL	DUSE-RA	S
EXP0208015a	245106001	MAP	2/8/10 21:37	944246	10-1304	2	LANL	USE	S
EXP0208016a	1202021908	MAP	2/8/10 22:07	944246	10-1304	2	LANL	USE	S
EXP0208017a	1202021909	MAP	2/8/10 22:36	944246	10-1304	2	LANL	USE	S
EXP0208018a	245106002	MAP	2/8/10 23:05	944246	10-1304	2	LANL	USE	S
EXP0208019a	245106003	MAP	2/8/10 23:35	944246	10-1304	2	LANL	USE	S
EXP0208020a	245106004	MAP	2/9/10 0:04	944246	10-1304	2	LANL	USE	S
EXP0208021a	245106005	MAP	2/9/10 0:34	944246	10-1304	2	LANL	USE	S
EXP0208022a	245106006	MAP	2/9/10 1:03	944246	10-1304	2	LANL	USE	S
EXP0208023a	WXXCCV	MAP	2/9/10 1:33			1		USE	C
EXP0208024a	XIBLK04	MAP	2/9/10 2:02			1		USE	B
EXP0208025a	WXXCRI	MAP	2/9/10 2:32			1		USE	C
EXP0208026a	245106007	MAP	2/9/10 3:01	944246	10-1304	2	LANL	USE	S
EXP0208027a	245106008	MAP	2/9/10 3:31	944246	10-1304	2	LANL	USE	S
EXP0208028a	245106009	MAP	2/9/10 4:00	944246	10-1304	2	LANL	USE	S
EXP0208029a	245106010	MAP	2/9/10 4:30	944246	10-1304	2	LANL	USE	S

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

EXP0208030a	245106011	MAP	2/9/10 4:59	944246	10-1304	2	LANL	USE	S
EXP0208031a	245106012	MAP	2/9/10 5:29	944246	10-1304	2	LANL	USE	S
EXP0208032a	245106013	MAP	2/9/10 5:58	944246	10-1304	2	LANL	USE	S
EXP0208033a	245106014	MAP	2/9/10 6:28	944246	10-1304	2	LANL	USE	S
EXP0208034a	245106015	MAP	2/9/10 6:58	944246	10-1304	2	LANL	USE	S
EXP0208035a	245106016	MAP	2/9/10 7:27	944246	10-1304	2	LANL	USE	S
EXP0208036a	WXXCCV	MAP	2/9/10 7:57			1		USE	C
EXP0208037a	XIBLK05	MAP	2/9/10 8:26			1		USE	B
EXP0208038a	WXXCRI	MAP	2/9/10 8:56			1		USE	C
EXP0208039a	1202021914	MAP	2/9/10 9:25	944250	10-1324	2	LANL	USE	S
EXP0208040a	1202021915	MAP	2/9/10 9:55	944250	10-1324	2	LANL	USE	S
EXP0208041a	245114002	MAP	2/9/10 10:24	944250	10-1324	2	LANL	USE	S
EXP0208042a	1202021916	MAP	2/9/10 10:54	944250	10-1324	2	LANL	USE	S
EXP0208043a	1202021917	MAP	2/9/10 11:23	944250	10-1324	2	LANL	USE	S
EXP0208044a	245114003	MAP	2/9/10 11:53	944250	10-1324	2	LANL	USE	S
EXP0208045a	245114004	MAP	2/9/10 12:22	944250	10-1324	2	LANL	USE	S
EXP0208046a	245114005	MAP	2/9/10 12:52	944250	10-1324	2	LANL	USE	S
EXP0208047a	245114006	MAP	2/9/10 13:21	944250	10-1324	2	LANL	USE	S
EXP0208048a	245114007	MAP	2/9/10 13:51	944250	10-1324	2	LANL	USE	S
EXP0208049a	WXXCCV	MAP	2/9/10 14:20			1		USE	C
EXP0208050a	XIBLK06	MAP	2/9/10 14:50			1		USE	B
EXP0208051a	WXXCRI	MAP	2/9/10 15:19			1		USE	C
EXP0208052a	245114008	MAP	2/9/10 15:49	944250	10-1324	2	LANL	USE	S
EXP0208053a	245114009	MAP	2/9/10 16:18	944250	10-1324	2	LANL	USE	S
EXP0208054a	245114010	MAP	2/9/10 16:48	944250	10-1324	2	LANL	USE	S
EXP0208055a	245114011	MAP	2/9/10 17:17	944250	10-1324	2	LANL	USE	S
EXP0208056a	245114012	MAP	2/9/10 17:47	944250	10-1324	2	LANL	USE	S
EXP0208057a	245114013	MAP	2/9/10 18:16	944250	10-1324	2	LANL	USE	S
EXP0208058a	245114014	MAP	2/9/10 18:46	944250	10-1324	2	LANL	USE	S
EXP0208059a	245114015	MAP	2/9/10 19:15	944250	10-1324	2	LANL	USE	S
EXP0208060a	1202021906	MAP	2/9/10 19:45	944246	10-1304	2	LANL	USE	S
EXP0208061a	1202021907	MAP	2/9/10 20:14	944246	10-1304	2	LANL	USE	S
EXP0208062a	WXXCCV	MAP	2/9/10 20:44			1		USE	C
EXP0208063a	XIBLK07	MAP	2/9/10 21:13			1		USE	B
EXP0208064a	WXXCRI	MAP	2/9/10 21:43			1		USE	C
EXP0208065a	1202023096	MAP	2/9/10 22:12	944718	Various	2	LANL	USE	S
EXP0208066a	1202023097	MAP	2/9/10 22:42	944718	Various	2	LANL	USE	S

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

EXP0208067a	245116001	MAP	2/9/10 23:12	944718	10-1327	2	LANL	USE	S
EXP0208068a	1202023098	MAP	2/9/10 23:41	944718	10-1327	2	LANL	USE	S
EXP0208069a	1202023099	MAP	2/10/10 0:10	944718	10-1327	2	LANL	USE	S
EXP0208070a	245116002	MAP	2/10/10 0:40	944718	10-1327	2	LANL	DUSE-RA	S
EXP0208071a	245116003	MAP	2/10/10 1:09	944718	10-1327	2	LANL	USE	S
EXP0208072a	245116004	MAP	2/10/10 1:39	944718	10-1327	2	LANL	USE	S
EXP0208073a	245116005	MAP	2/10/10 2:08	944718	10-1327	2	LANL	DUSE-RA	S
EXP0208074a	245116006	MAP	2/10/10 2:38	944718	10-1327	2	LANL	USE	S
EXP0208075a	WXXCCV	MAP	2/10/10 3:07			1		USE	C
EXP0208076a	XIBLK08	MAP	2/10/10 3:37			1		USE	B
EXP0208077a	WXXCRI	MAP	2/10/10 4:06			1		USE	C
EXP0208078a	245116007	MAP	2/10/10 4:36	944718	10-1327	2	LANL	USE	S
EXP0208079a	245116008	MAP	2/10/10 5:06	944718	10-1327	2	LANL	USE	S
EXP0208080a	245116009	MAP	2/10/10 5:35	944718	10-1327	2	LANL	USE	S
EXP0208081a	245116010	MAP	2/10/10 6:04	944718	10-1327	2	LANL	USE	S
EXP0208082a	245116011	MAP	2/10/10 6:34	944718	10-1327	2	LANL	USE	S
EXP0208083a	245116012	MAP	2/10/10 7:03	944718	10-1327	2	LANL	USE	S
EXP0208084a	245116013	MAP	2/10/10 7:33	944718	10-1327	2	LANL	USE	S
EXP0208085a	245116014	MAP	2/10/10 8:02	944718	10-1327	2	LANL	USE	S
EXP0208086a	245116015	MAP	2/10/10 8:32	944718	10-1327	2	LANL	USE	S
EXP0208087a	245116016	MAP	2/10/10 9:01	944718	10-1327	2	LANL	USE	S
EXP0208088a	WXXCCV	MAP	2/10/10 9:31			1		USE	C
EXP0208089a	XIBLK09	MAP	2/10/10 10:01			1		USE	B
EXP0208090a	WXXCRI	MAP	2/10/10 10:30			1		USE	C
EXP0208091a	245226001	MAP	2/10/10 11:00	944718	10-1342	250	LANL	USE	S
EXP0208092a	245226001	MAP	2/10/10 11:29	944718	10-1342	2	LANL	USE	S
EXP0208093a	XIBLK10	MAP	2/10/10 11:59			1		USE	B
EXP0208094a	245226003	MAP	2/10/10 12:28	944718	10-1342	250	LANL	DUSE	S
EXP0208095a	245226003	MAP	2/10/10 12:58	944718	10-1342	2	LANL	USE	S
EXP0208096a	XIBLK11	MAP	2/10/10 13:28			1		USE	B
EXP0208097a	245116002	MAP	2/10/10 13:57	944718	10-1327	2	LANL	USE	S
EXP0208098a	245116005	MAP	2/10/10 14:27	944718	10-1327	2	LANL	USE	S
EXP0208099a	245226003	MAP	2/10/10 14:56	944718	10-1342	500	LANL	USE	S
EXP0208100a	WXXCCV	MAP	2/10/10 15:26			1		USE	C
EXP0208101a	XIBLK12	MAP	2/10/10 15:55			1		USE	B
EXP0208102a	WXXCRI	MAP	2/10/10 16:25			1		USE	C
EXP0208103a	1202027262	MAP	2/10/10 16:54	946483	10-1408	2	LANL	USE	S

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

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

EXP0208104a	1202027263	MAP	2/10/10 17:24	946483	10-1408	2	LANL	USE	S
EXP0208105a	245597002	MAP	2/10/10 17:53	946483	10-1408	2	LANL	USE	S
EXP0208106a	1202027264	MAP	2/10/10 18:23	946483	10-1408	2	LANL	USE	S
EXP0208107a	1202027265	MAP	2/10/10 18:52	946483	10-1408	2	LANL	USE	S
EXP0208108a	245597003	MAP	2/10/10 19:22	946483	10-1408	2	LANL	USE	S
EXP0208109a	245597004	MAP	2/10/10 19:51	946483	10-1408	2	LANL	USE	S
EXP0208110a	245597005	MAP	2/10/10 20:21	946483	10-1408	2	LANL	USE	S
EXP0208111a	245597006	MAP	2/10/10 20:50	946483	10-1408	2	LANL	USE	S
EXP0208112a	245597007	MAP	2/10/10 21:20	946483	10-1408	2	LANL	USE	S
EXP0208113a	WXXCCV	MAP	2/10/10 21:49			1		USE	C
EXP0208114a	XIBLK13	MAP	2/10/10 22:19			1		USE	B
EXP0208115a	WXXCRI	MAP	2/10/10 22:48			1		USE	C
EXP0208116a	245597008	MAP	2/10/10 23:18	946483	10-1408	2	LANL	USE	S
EXP0208117a	245597009	MAP	2/10/10 23:47	946483	10-1408	2	LANL	USE	S
EXP0208118a	245597010	MAP	2/11/10 0:17	946483	10-1408	2	LANL	USE	S
EXP0208119a	245597011	MAP	2/11/10 0:46	946483	10-1408	2	LANL	USE	S
EXP0208120a	WXXCCV	MAP	2/11/10 1:16			1		USE	C
EXP0208121a	XIBLK14	MAP	2/11/10 1:45			1		USE	B
EXP0208122a	WXXCRI	MAP	2/11/10 2:15			1		USE	C
EXP0208123a	1202027274	MAP	2/11/10 2:44	946488	Various	2	LANL	USE	S
EXP0208124a	1202027275	MAP	2/11/10 3:14	946488	Various	2	LANL	DUSE-RA	S
EXP0208125a	245621002	MAP	2/11/10 3:43	946488	10-1424	2	LANL	DUSE-RA	S
EXP0208126a	1202027276	MAP	2/11/10 4:13	946488	10-1424	2	LANL	DUSE-RA	S
EXP0208127a	1202027277	MAP	2/11/10 4:42	946488	10-1424	2	LANL	USE	S
EXP0208128a	245621003	MAP	2/11/10 5:12	946488	10-1424	2	LANL	USE	S
EXP0208129a	245621004	MAP	2/11/10 5:41	946488	10-1424	2	LANL	USE	S
EXP0208130a	245621005	MAP	2/11/10 6:11	946488	10-1424	2	LANL	USE	S
EXP0208131a	245621006	MAP	2/11/10 6:40	946488	10-1424	2	LANL	USE	S
EXP0208132a	245621007	MAP	2/11/10 7:10	946488	10-1424	2	LANL	USE	S
EXP0208133a	WXXCCV	MAP	2/11/10 7:39			1		USE	C
EXP0208134a	XIBLK15	MAP	2/11/10 8:09			1		USE	B
EXP0208135a	WXXCRI	MAP	2/11/10 8:38			1		USE	C
EXP0208136a	245621008	MAP	2/11/10 9:08	946488	10-1424	2	LANL	USE	S
EXP0208137a	245621009	MAP	2/11/10 9:37	946488	10-1424	2	LANL	USE	S
EXP0208138a	245621010	MAP	2/11/10 10:07	946488	10-1424	2	LANL	USE	S
EXP0208139a	245621011	MAP	2/11/10 10:36	946488	10-1424	2	LANL	USE	S
EXP0208140a	245628002	MAP	2/11/10 11:06	946488	10-1427	2	LANL	USE	S

EXP0208141a	245628003	MAP	2/11/10 11:36	946488	10-1427	2	LANL	USE	S
EXP0208142a	245628004	MAP	2/11/10 12:05	946488	10-1427	2	LANL	USE	S
EXP0208143a	245631002	MAP	2/11/10 12:35	946488	10-1428	2	LANL	USE	S
EXP0208144a	245631003	MAP	2/11/10 13:04	946488	10-1428	2	LANL	USE	S
EXP0208145a	WXXCCV	MAP	2/11/10 13:34			1		USE	C
EXP0208146a	XIBLK16	MAP	2/11/10 14:03			1		USE	B
EXP0208147a	WXXCRI	MAP	2/11/10 14:33			1		USE	C
EXP0208148a	245597002	MAP	2/11/10 15:02	946483	10-1408	25	LANL	DUSE	S
EXP0208149a	245597002	MAP	2/11/10 15:32	946483	10-1408	25	LANL	USE	S
EXP0208150a	1202027275	MAP	2/11/10 16:01	946488	Various	2	LANL	USE	S
EXP0208151a	245621002	MAP	2/11/10 16:31	946488	10-1424	2	LANL	USE	S
EXP0208152a	1202027276	MAP	2/11/10 17:00	946488	10-1424	2	LANL	USE	S
EXP0208153a	IXP100210-02	MAP	2/11/10 17:30	SCREEN	NA	1	GEL	USE	S
EXP0208154a	IXX100208-03	MAP	2/11/10 18:00	SCREEN	NA	1	GEL	USE	S
EXP0208155a	WXXCCV	MAP	2/11/10 18:29			1		USE	C
EXP0208156a	XIBLK17	MAP	2/11/10 18:58			1		USE	B
EXP0208157a	WXXCRI	MAP	2/11/10 19:28			1		USE	C
EXP0208158a	1202028676	MAP	2/11/10 19:57	947084	Various	2	LANL	USE	S
EXP0208159a	1202028677	MAP	2/11/10 20:27	947084	Various	2	LANL	USE	S
EXP0208160a	245663001	MAP	2/11/10 20:57	947084	10-1436	2	LANL	USE	S
EXP0208161a	1202028678	MAP	2/11/10 21:26	947084	10-1436	2	LANL	USE	S
EXP0208162a	1202028679	MAP	2/11/10 21:55	947084	10-1436	2	LANL	USE	S
EXP0208163a	245663002	MAP	2/11/10 22:25	947084	10-1436	2	LANL	USE	S
EXP0208164a	245663003	MAP	2/11/10 22:54	947084	10-1436	2	LANL	USE	S
EXP0208165a	245663004	MAP	2/11/10 23:24	947084	10-1436	2	LANL	USE	S
EXP0208166a	245663005	MAP	2/11/10 23:53	947084	10-1436	2	LANL	USE	S
EXP0208167a	245663006	MAP	2/12/10 0:23	947084	10-1436	2	LANL	USE	S
EXP0208168a	WXXCCV	MAP	2/12/10 0:52			1		USE	C
EXP0208169a	XIBLK18	MAP	2/12/10 1:22			1		USE	B
EXP0208170a	WXXCRI	MAP	2/12/10 1:51			1		USE	C
EXP0208171a	245803001	MAP	2/12/10 2:21	947084	10-1473	2	LANL	USE	S
EXP0208172a	245803002	MAP	2/12/10 2:50	947084	10-1473	2	LANL	USE	S
EXP0208173a	245803003	MAP	2/12/10 3:20	947084	10-1473	2	LANL	USE	S
EXP0208174a	245803004	MAP	2/12/10 3:50	947084	10-1473	2	LANL	USE	S
EXP0208175a	245803005	MAP	2/12/10 4:19	947084	10-1473	2	LANL	USE	S
EXP0208176a	245803006	MAP	2/12/10 4:49	947084	10-1473	2	LANL	USE	S
EXP0208177a	245803007	MAP	2/12/10 5:18	947084	10-1473	2	LANL	USE	S

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

EXP0208178a	245803008	MAP	2/12/10 5:48	947084	10-1473	2	LANL	USE	S
EXP0208179a	WXXCCV	MAP	2/12/10 6:17			1		USE	C
EXP0208180a	XIBLK19	MAP	2/12/10 6:47			1		USE	B
EXP0208181a	WXXCRI	MAP	2/12/10 7:16			1		USE	C
EXP0208182a	1202028672	MAP	2/12/10 7:46	947078	Various	2	LANL	USE	S
EXP0208183a	1202028673	MAP	2/12/10 8:15	947078	Various	2	LANL	USE	S
EXP0208184a	245661001	MAP	2/12/10 8:45	947078	10-1435	2	LANL	USE	S
EXP0208185a	245686001	MAP	2/12/10 9:14	947078	10-1432	2	LANL	USE	S
EXP0208186a	1202028674	MAP	2/12/10 9:44	947078	10-1432	2	LANL	USE	S
EXP0208187a	1202028675	MAP	2/12/10 10:13	947078	10-1432	2	LANL	USE	S
EXP0208188a	245686002	MAP	2/12/10 10:43	947078	10-1432	2	LANL	USE	S
EXP0208189a	245686003	MAP	2/12/10 11:13	947078	10-1432	2	LANL	USE	S
EXP0208190a	245686004	MAP	2/12/10 11:42	947078	10-1432	2	LANL	USE	S
EXP0208191a	245686005	MAP	2/12/10 12:12	947078	10-1432	2	LANL	USE	S
EXP0208192a	WXXCCV	MAP	2/12/10 12:41			1		USE	C
EXP0208193a	XIBLK20	MAP	2/12/10 13:11			1		USE	B
EXP0208194a	WXXCRI	MAP	2/12/10 13:40			1		USE	C
EXP0208195a	245686006	MAP	2/12/10 14:10	947078	10-1432	2	LANL	USE	S
EXP0208196a	245686007	MAP	2/12/10 14:40	947078	10-1432	2	LANL	USE	S
EXP0208197a	245686008	MAP	2/12/10 15:09	947078	10-1432	2	LANL	USE	S
EXP0208198a	245686009	MAP	2/12/10 15:38	947078	10-1432	2	LANL	USE	S
EXP0208199a	245686010	MAP	2/12/10 16:08	947078	10-1432	2	LANL	USE	S
EXP0208200a	245686011	MAP	2/12/10 16:38	947078	10-1432	2	LANL	USE	S
EXP0208201a	245686012	MAP	2/12/10 17:07	947078	10-1432	2	LANL	USE	S
EXP0208202a	245686013	MAP	2/12/10 17:36	947078	10-1432	2	LANL	USE	S
EXP0208203a	245686014	MAP	2/12/10 18:06	947078	10-1432	2	LANL	USE	S
EXP0208204a	WXXCCV	MAP	2/12/10 18:36			1		USE	C
EXP0208205a	XIBLK21	MAP	2/12/10 19:05			1		USE	B
EXP0208206a	WXXCRI	MAP	2/12/10 19:35			1		USE	C
EXP0208207a	1202023542	MAP	2/12/10 20:04	944900	10-1382	2	LANL	USE	S
EXP0208208a	1202023543	MAP	2/12/10 20:34	944900	10-1382	2	LANL	USE	S
EXP0208209a	245384001	MAP	2/12/10 21:03	944900	10-1382	2	LANL	USE	S
EXP0208210a	1202023544	MAP	2/12/10 21:33	944900	10-1382	2	LANL	USE	S
EXP0208211a	1202023545	MAP	2/12/10 22:02	944900	10-1382	2	LANL	DUSE-RA	S
EXP0208212a	245384002	MAP	2/12/10 22:32	944900	10-1382	2	LANL	USE	S
EXP0208213a	245384003	MAP	2/12/10 23:01	944900	10-1382	2	LANL	USE	S
EXP0208214a	245384004	MAP	2/12/10 23:31	944900	10-1382	2	LANL	USE	S

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

EXP0208215a	245384005	MAP	2/13/10 0:00	944900	10-1382	2	LANL	USE	S
EXP0208216a	245384006	MAP	2/13/10 0:30	944900	10-1382	2	LANL	USE	S
EXP0208217a	WXXCCV	MAP	2/13/10 0:59			1		USE	C
EXP0208218a	XIBLK22	MAP	2/13/10 1:29			1		USE	B
EXP0208219a	WXXCRI	MAP	2/13/10 1:58			1		USE	C
EXP0208220a	245384007	MAP	2/13/10 2:28	944900	10-1382	2	LANL	USE	S
EXP0208221a	245384008	MAP	2/13/10 2:57	944900	10-1382	2	LANL	USE	S
EXP0208222a	245384009	MAP	2/13/10 3:27	944900	10-1382	2	LANL	USE	S
EXP0208223a	245384010	MAP	2/13/10 3:56	944900	10-1382	2	LANL	USE	S
EXP0208224a	245384012	MAP	2/13/10 4:26	944900	10-1382	2	LANL	USE	S
EXP0208225a	WXXCCV	MAP	2/13/10 4:56			1		USE	C
EXP0208226a	XIBLK23	MAP	2/13/10 5:25			1		USE	B
EXP0208227a	WXXCRI	MAP	2/13/10 5:55			1		USE	C

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

GEL ORGANIC RUN LOG INSTRUMENT ID: LCMSMS4

Date: 02/13/10 Method: 8321A-Modified Reviewed By: [signature]
Extr. Injection Volume: 10uL Int. Std.: N/A Date: 02/16/10
Sequence Number: 021310exs Mobile Phase Lot#:1263794, 1258141 SOP: GL-OA-E-056 Rev.12
Initial Calibration Date: 021310 Standard-Samp Reagent Lot# :1246195, 1253092 Alt Check Std. ID: WXX100213-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS02130001.wiff	XIBLK01	LER	2/13/2010 10:12			1		USE	B
EXS02130002.wiff	XIBLK01	LER	2/13/2010 10:28			1		USE	B
EXS02130003.wiff	WXXICAL-19	LER	2/13/2010 10:44			1		USE	I
EXS02130004.wiff	WXXICAL-20	LER	2/13/2010 11:00			1		USE	I
EXS02130005.wiff	WXXICAL-21	LER	2/13/2010 11:15			1		USE	I
EXS02130006.wiff	WXXICAL-22	LER	2/13/2010 11:31			1		USE	I
EXS02130007.wiff	WXXICAL-23	LER	2/13/2010 11:47			1		USE	I
EXS02130008.wiff	WXXICAL-24	LER	2/13/2010 12:02			1		USE	I
EXS02130009.wiff	WXXICAL-25	LER	2/13/2010 12:18			1		USE	I
EXS02130010.wiff	XIBLK02	LER	2/13/2010 12:34			1		USE	B
EXS02130011.wiff	WXXICV	LER	2/13/2010 12:49			1		USE	C
EXS02130012.wiff	XIBLK03	LER	2/13/2010 13:05			1		USE	B
EXS02130013.wiff	WXXCRI	LER	2/13/2010 13:21			1		USE	C
EXS02130014.wiff	1202028672	LER	2/13/2010 13:36	947078	VARIOUS	2	LANL	USE	S
EXS02130015.wiff	1202028673	LER	2/13/2010 13:52	947078	VARIOUS	2	LANL	USE	S
EXS02130016.wiff	245661001	LER	2/13/2010 14:08	947078	10-1435	2	LANL	USE	S
EXS02130017.wiff	245686001	LER	2/13/2010 14:24	947078	10-1432	2	LANL	USE	S
EXS02130018.wiff	1202028674	LER	2/13/2010 14:39	947078	10-1432	2	LANL	USE	S
EXS02130019.wiff	1202028675	LER	2/13/2010 14:55	947078	10-1432	2	LANL	USE	S
EXS02130020.wiff	245686002	LER	2/13/2010 15:11	947078	10-1432	2	LANL	USE	S
EXS02130021.wiff	245686003	LER	2/13/2010 15:26	947078	10-1432	2	LANL	USE	S
EXS02130022.wiff	245686004	LER	2/13/2010 15:42	947078	10-1432	2	LANL	USE	S
EXS02130023.wiff	245686005	LER	2/13/2010 15:58	947078	10-1432	2	LANL	USE	S
EXS02130024.wiff	WXXCCV	LER	2/13/2010 16:14			1		USE	C
EXS02130025.wiff	XIBLK04	LER	2/13/2010 16:29			1		USE	B
EXS02130026.wiff	WXXCRI	LER	2/13/2010 16:45			1		USE	C
EXS02130027.wiff	245686006	LER	2/13/2010 17:01	947078	10-1432	2	LANL	USE	S
EXS02130028.wiff	245686007	LER	2/13/2010 17:16	947078	10-1432	2	LANL	USE	S

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

EXS02130029.wiff	245686008	LER	2/13/2010 17:32	947078	10-1432	2	LANL	USE	S
EXS02130030.wiff	245686009	LER	2/13/2010 17:48	947078	10-1432	2	LANL	USE	S
EXS02130031.wiff	245686010	LER	2/13/2010 18:03	947078	10-1432	2	LANL	USE	S
EXS02130032.wiff	245686011	LER	2/13/2010 18:19	947078	10-1432	2	LANL	USE	S
EXS02130033.wiff	245686012	LER	2/13/2010 18:35	947078	10-1432	2	LANL	USE	S
EXS02130034.wiff	245686013	LER	2/13/2010 18:50	947078	10-1432	2	LANL	USE	S
EXS02130035.wiff	245686014	LER	2/13/2010 19:06	947078	10-1432	2	LANL	USE	S
EXS02130036.wiff	WXXCCV	LER	2/13/2010 19:22			1		USE	C
EXS02130037.wiff	XIBLK05	LER	2/13/2010 19:38			1		USE	B
EXS02130038.wiff	WXXCRI	LER	2/13/2010 19:53			1		USE	C
EXS02130039.wiff	UXX100122-01.2	LER	2/13/2010 20:09	SCREEN	LIQUID	2	O2SI	USE	S
EXS02130040.wiff	XIBLK06	LER	2/13/2010 20:25			1		USE	B
EXS02130041.wiff	1202023542	LER	2/13/2010 20:40	944900	10-1382	2	LANL	USE	S
EXS02130042.wiff	1202023543	LER	2/13/2010 20:56	944900	10-1382	2	LANL	USE	S
EXS02130043.wiff	245384001	LER	2/13/2010 21:12	944900	10-1382	2	LANL	USE	S
EXS02130044.wiff	1202023544	LER	2/13/2010 21:28	944900	10-1382	2	LANL	USE	S
EXS02130045.wiff	1202023545	LER	2/13/2010 21:43	944900	10-1382	2	LANL	USE	S
EXS02130046.wiff	245384002	LER	2/13/2010 21:59	944900	10-1382	2	LANL	USE	S
EXS02130047.wiff	245384003	LER	2/13/2010 22:15	944900	10-1382	2	LANL	USE	S
EXS02130048.wiff	245384004	LER	2/13/2010 22:30	944900	10-1382	2	LANL	USE	S
EXS02130049.wiff	WXXCCV	LER	2/13/2010 22:46			1		USE	C
EXS02130050.wiff	XIBLK07	LER	2/13/2010 23:02			1		USE	B
EXS02130051.wiff	WXXCRI	LER	2/13/2010 23:17			1		USE	C
EXS02130052.wiff	245384005	LER	2/13/2010 23:33	944900	10-1382	2	LANL	USE	S
EXS02130053.wiff	245384006	LER	2/13/2010 23:49	944900	10-1382	2	LANL	USE	S
EXS02130054.wiff	245384007	LER	2/14/2010 0:04	944900	10-1382	2	LANL	USE	S
EXS02130055.wiff	245384008	LER	2/14/2010 0:20	944900	10-1382	2	LANL	USE	S
EXS02130056.wiff	245384009	LER	2/14/2010 0:36	944900	10-1382	2	LANL	USE	S
EXS02130057.wiff	245384010	LER	2/14/2010 0:52	944900	10-1382	2	LANL	USE	S
EXS02130058.wiff	245384012	LER	2/14/2010 1:07	944900	10-1382	2	LANL	USE	S
EXS02130059.wiff	XIBLK08	LER	2/14/2010 1:23			1		USE	B
EXS02130060.wiff	245621005	LER	2/14/2010 1:39	946488	10-1424	2	LANL	USE	S
EXS02130061.wiff	WXXCCV	LER	2/14/2010 1:54			1		USE	C
EXS02130062.wiff	XIBLK09	LER	2/14/2010 2:10			1		USE	B
EXS02130063.wiff	WXXCRI	LER	2/14/2010 2:26			1		USE	C
EXS02130064.wiff	1202023571	LER	2/14/2010 2:42	944907	10-1384	2	LANL	USE	S
EXS02130065.wiff	1202023572	LER	2/14/2010 2:57	944907	10-1384	2	LANL	USE	S

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

EXS02130066.wiff	245387001	LER	2/14/2010 3:13	944907	10-1384	2	LANL	USE	S
EXS02130067.wiff	1202023573	LER	2/14/2010 3:29	944907	10-1384	2	LANL	USE	S
EXS02130068.wiff	1202023574	LER	2/14/2010 3:44	944907	10-1384	2	LANL	USE	S
EXS02130069.wiff	245387002	LER	2/14/2010 4:00	944907	10-1384	2	LANL	USE	S
EXS02130070.wiff	245387003	LER	2/14/2010 4:16	944907	10-1384	2	LANL	USE	S
EXS02130071.wiff	245387004	LER	2/14/2010 4:31	944907	10-1384	2	LANL	USE	S
EXS02130072.wiff	245387005	LER	2/14/2010 4:47	944907	10-1384	2	LANL	USE	S
EXS02130073.wiff	245387006	LER	2/14/2010 5:03	944907	10-1384	2	LANL	USE	S
EXS02130074.wiff	WXXCCV	LER	2/14/2010 5:19			1		USE	C
EXS02130075.wiff	XIBLK10	LER	2/14/2010 5:34			1		USE	B
EXS02130076.wiff	WXXCRI	LER	2/14/2010 5:50			1		USE	C
EXS02130077.wiff	245387007	LER	2/14/2010 6:06	944907	10-1384	2	LANL	USE	S
EXS02130078.wiff	245387008	LER	2/14/2010 6:21	944907	10-1384	2	LANL	DUSE-RA	S
EXS02130079.wiff	245387009	LER	2/14/2010 6:37	944907	10-1384	2	LANL	DUSE-RA	S
EXS02130080.wiff	245387010	LER	2/14/2010 6:53	944907	10-1384	2	LANL	DUSE-RA	S
EXS02130081.wiff	245387011	LER	2/14/2010 7:08	944907	10-1384	2	LANL	USE	S
EXS02130082.wiff	WXXCCV	LER	2/14/2010 7:24			1		USE	C
EXS02130083.wiff	XIBLK11	LER	2/14/2010 7:40			1		USE	B
EXS02130084.wiff	WXXCRI	LER	2/14/2010 7:56			1		USE	C
EXS02130085.wiff	1202023615	LER	2/14/2010 8:11	944929	10-1390	2	LANL	USE	S
EXS02130086.wiff	1202023616	LER	2/14/2010 8:27	944929	10-1390	2	LANL	USE	S
EXS02130087.wiff	245391001	LER	2/14/2010 8:43	944929	10-1390	2	LANL	USE	S
EXS02130088.wiff	1202023617	LER	2/14/2010 8:58	944929	10-1390	2	LANL	USE	S
EXS02130089.wiff	1202023618	LER	2/14/2010 9:14	944929	10-1390	2	LANL	USE	S
EXS02130090.wiff	245391002	LER	2/14/2010 9:30	944929	10-1390	2	LANL	USE	S
EXS02130091.wiff	245391003	LER	2/14/2010 9:45	944929	10-1390	2	LANL	USE	S
EXS02130092.wiff	245391004	LER	2/14/2010 10:01	944929	10-1390	2	LANL	USE	S
EXS02130093.wiff	245391005	LER	2/14/2010 10:17	944929	10-1390	2	LANL	USE	S
EXS02130094.wiff	245391006	LER	2/14/2010 10:33	944929	10-1390	2	LANL	USE	S
EXS02130095.wiff	WXXCCV	LER	2/14/2010 10:48			1		USE	C
EXS02130096.wiff	XIBLK12	LER	2/14/2010 11:04			1		USE	B
EXS02130097.wiff	WXXCRI	LER	2/14/2010 11:20			1		USE	C
EXS02130098.wiff	245391007	LER	2/14/2010 11:35	944929	10-1390	2	LANL	USE	S
EXS02130099.wiff	245391008	LER	2/14/2010 11:51	944929	10-1390	2	LANL	USE	S
EXS02130100.wiff	245391009	LER	2/14/2010 12:07	944929	10-1390	2	LANL	USE	S
EXS02130101.wiff	245391010	LER	2/14/2010 12:22	944929	10-1390	2	LANL	USE	S
EXS02130102.wiff	245391011	LER	2/14/2010 12:38	944929	10-1390	2	LANL	USE	S

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

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

EXS02130103.wiff	WXXCCV	LER	2/14/2010 12:54	1	USE	C
EXS02130104.wiff	XIBLK13	LER	2/14/2010 13:10	1	USE	B
EXS02130105.wiff	WXXCRI	LER	2/14/2010 13:26	1	USE	C

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

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
16-FEB-10	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
LC-MS/MS	SW846 8321A Modified	Solid	LANL
Batch ID:	**Sample Numbers:**		
947078	See Below		

Potentially affected work order(s)(SDG): 245661(10-1435),245686(10-1432)

Application Issues:

Failed Recovery for LCS/LCSD

Failed Recovery for MS/PS

Failed Yield for Surrogates

Specification and Requirements Exception Description:	DER Disposition:
1. Sample 245686014 did not meet acceptance criteria for surrogate recovery in the Secondary analyte analysis at 149%. The limits are 70-144%.	1. The sample had a passing surrogate recovery of 121% in the Primary analyte analysis. The sample did have any detects of target analytes. The data are considered unaffected and are reported.
2. The LCS(1202028673) did not meet acceptance criteria for the recovery of Tetryl at 48.5%. The limits are 51-112%.	2. The MS(1202028674) and MSD(1202028675) both have passing recoveries for Tetryl at 69.8% and 69% respectively. The data are reported.
3. The MS(1202028674) did not meet acceptance criteria for the recovery of TATB at 189%. The limits are 29-155%.	3. The LCS(1202028673) and MSD(1202028675) have passing recoveries for TATB at 142% and 149% respectively. TATB was not detected in the parent sample. The data are considered unaffected and are reported.

Originator's Name:

Lynne Russell 16-FEB-10

Data Validator/Group Leader:

Herbert Maier 16-FEB-10

GC
SEMIVOLATILE
PCB
ANALYSIS

PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1432

Method/Analysis Information

Procedure:	**Analysis of Polychlorinated Biphenyls by ECD**
Analytical Method:	SW846 8082
Prep Method:	SW846 3550B
Analytical Batch Number:	947574
Prep Batch Number:	947573

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
245686001	RE15-10-7883
245686002	RE15-10-7884
245686013	RE15-10-8056
245686014	RE15-10-8057
1202029843	Method Blank (MB)
1202029844	Laboratory Control Sample (LCS)
1202029845	245679002(RE46-10-11901) Matrix Spike (MS)
1202029846	245679002(RE46-10-11901) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 14.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

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

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

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

independently verified to produce valid results.

Continuing Calibration Verification (CCV) Requirements
All calibration verification standards(CVS, ICV, or CCV) requirements have not been met for this SDG.

The bracketing standards failed acceptance criteria with a positive bias. The positive bias for the analytical data is a result of the instrument response increasing after the initial calibration. There were no target compounds detected at concentrations above the PQL; therefore, the non-compliance has no adverse effects on the data.

One or more peaks recovered outside the accepted limits in the bracketing check standards analyzed for this SDG; however, the average concentration of all five quantitated peaks was with in the accepted recovery limit.

Surrogate recovery did not meet the acceptance criteria in the standards bracketing the samples in this SDG; however, this non-compliance has no adverse effects on the data as the surrogate recovery was well within the acceptance range in the samples in this SDG.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

QC Sample Designation
A LANL sample of similar matrix associated with another SDG (#10-1449) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data is included in the package summarizing the results.

Matrix Spike (MS) Recovery Statement
The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Technical Information

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

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

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

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

Data Exception (DER) Documentation

Data exception reports (DERs) are for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integrations

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported 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
ECD8A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide I)
ECD8A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticide II)

Certification Statement

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

Review Validation

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

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

Reviewer: Andy Whitlock Date: 2-23-2010

Roadmap for LANL 10-1432 PCB

This roadmap was analyzed by jen01212 on 02-04-2010, 09:45.
This roadmap was reviewed by rob01090 on 02-08-2010, 16:30.
This roadmap was packaged by yml on 02-23-2010, 17:47.
This roadmap was validated by rob01090 on 02-23-2010, 20:26.

Front Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
■	N	/chem/ecd8a.i/020210.b/048f4801.d	245686001	sample	02-FEB-2010	21:41	10-1432.sub	RE15-10-7883	1.00000	947574	DUSE, RE-RUN WITH PASSING CHECK
□	N	/chem/ecd8a.i/020310a.b/058f5801.d	245686001	sample	03-FEB-2010	21:57	10-1432.sub	RE15-10-7883	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/049f4901.d	245686002	sample	02-FEB-2010	21:53	10-1432.sub	RE15-10-7884	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/050f5001.d	245686013	sample	02-FEB-2010	22:06	10-1432.sub	RE15-10-8056	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/051f5101.d	245686014	sample	02-FEB-2010	22:18	10-1432.sub	RE15-10-8057	1.00000	947574	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
■	N	/chem/ecd8a.i/020210.b/048b4801.d	245686001	sample	02-FEB-2010	21:41	10-1432.sub	RE15-10-7883	1.00000	947574	DUSE, RE-RUN WITH PASSING CHECK
□	N	/chem/ecd8a.i/020310a.b/058b5801.d	245686001	sample	03-FEB-2010	21:57	10-1432.sub	RE15-10-7883	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/049b4901.d	245686002	sample	02-FEB-2010	21:53	10-1432.sub	RE15-10-7884	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/050b5001.d	245686013	sample	02-FEB-2010	22:06	10-1432.sub	RE15-10-8056	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/051b5101.d	245686014	sample	02-FEB-2010	22:18	10-1432.sub	RE15-10-8057	1.00000	947574	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
□	N	/chem/ecd8a.i/020210.b/032f3201.d	1202029843	mb	02-FEB-2010	18:18	10-1432.sub	PBLK01	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/033f3301.d	1202029844	lcs	02-FEB-2010	18:31	10-1432.sub	PBLK01LCS	1.00000	947574	UPLOAD BOTH, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
□	N	/chem/ecd8a.i/020210.b/032b3201.d	1202029843	mb	02-FEB-2010	18:18	10-1432.sub	PBLK01	1.00000	947574	UPLOAD BOTH, USE HIGHER
□	N	/chem/ecd8a.i/020210.b/033b3301.d	1202029844	lcs	02-FEB-2010	18:31	10-1432.sub	PBLK01LCS	1.00000	947574	UPLOAD BOTH, USE HIGHER

SAMPLE DATA SUMMARY

PCB

Certificate of Analysis
Sample Summary

SDG Number:	**10–1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686001**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**31.1**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15–10–7883**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL–OA–E–040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/03/2010 21:57**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.01 g**	**Final Volume:**	**1 mL**
Data File:	**058f5801.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	058b5801.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	4.83	ug/kg	1.61	4.83	1
11104–28–2	Aroclor–1221	U	4.83	ug/kg	1.61	4.83	1
11141–16–5	Aroclor–1232	U	4.83	ug/kg	1.61	4.83	1
53469–21–9	Aroclor–1242	U	4.83	ug/kg	1.61	4.83	1
12672–29–6	Aroclor–1248	U	4.83	ug/kg	1.61	4.83	1
11097–69–1	Aroclor–1254	J	3.90	ug/kg	1.61	4.83	2
11096–82–5	Aroclor–1260	U	4.83	ug/kg	1.61	4.83	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686002**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**5.8**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-7884**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 21:53**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.08 g**	**Final Volume:**	**1 mL**
Data File:	**049f4901.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	049b4901.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

PCB

Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686013**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**3.6**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-8056**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 22:06**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.02 g**	**Final Volume:**	**1 mL**
Data File:	**050f5001.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	050b5001.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.45	ug/kg	1.15	3.45	1
11104-28-2	Aroclor-1221	U	3.45	ug/kg	1.15	3.45	1
11141-16-5	Aroclor-1232	U	3.45	ug/kg	1.15	3.45	1
53469-21-9	Aroclor-1242	U	3.45	ug/kg	1.15	3.45	1
12672-29-6	Aroclor-1248	U	3.45	ug/kg	1.15	3.45	1
11097-69-1	Aroclor-1254	U	3.45	ug/kg	1.15	3.45	1
11096-82-5	Aroclor-1260	U	3.45	ug/kg	1.15	3.45	1

PCB

Certificate of Analysis

Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686014**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**29.8**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-8057**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 22:18**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.18 g**	**Final Volume:**	**1 mL**
Data File:	**051f5101.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	051b5101.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.72	ug/kg	1.57	4.72	1
11104-28-2	Aroclor-1221	U	4.72	ug/kg	1.57	4.72	1
11141-16-5	Aroclor-1232	U	4.72	ug/kg	1.57	4.72	1
53469-21-9	Aroclor-1242	U	4.72	ug/kg	1.57	4.72	1
12672-29-6	Aroclor-1248	U	4.72	ug/kg	1.57	4.72	1
11097-69-1	Aroclor-1254	U	4.72	ug/kg	1.57	4.72	1
11096-82-5	Aroclor-1260	U	4.72	ug/kg	1.57	4.72	1

QUALITY CONTROL SUMMARY

Surrogate Recovery Report

SDG Number: 10--1432

Matrix Type: SOLID

CAP Column (1) : CLP1 **CAP Column (2) : CLP2**

Sample ID	Client ID	4CMX 1 %REC #	4CMX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #
1202029843	MB for batch 947573	64	67	72	75
1202029844	LCS for batch 947573	55	58	64	66
245686002	RE15-10-7884	73	80	82	85
245686013	RE15-10-8056	64	71	73	73
245686014	RE15-10-8057	71	79	86	88
245686001	RE15-10-7883	89	96	91	97

Surrogate		Acceptance Limits
4CMX	= 4cmx	(32%-120%)
DCB	= Decachlorobiphenyl	(30%-116%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1432
Sample Type: Laboratory Control Sample
Client ID: LCS for batch 947573
Matrix: SOIL
Lab Sample ID: 1202029844
Instrument: ECD8A.I
Analysis Date: 02/02/2010 18:31
Dilution: 1
Analyst: JAOC
Prep Batch ID 947573
Inj. Vol: 1 uL
Batch ID: 947574

CAS No		Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS	Aroclor-1016	33.3	0.0	18.4	55	39-102
11096-82-5	LCS	Aroclor-1260	33.3	0.0	23.2	70	45-118

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1449
Client ID: RE46-10-11901MS
Lab Sample ID: 1202029845
Instrument: ECD8A.I
Analyst: JAOC
Inj. Vol: 1 uL

Sample Type: Matrix Spike
Matrix: S
%Moisture: 9.1
Analysis Date: 02/02/2010 18:56
Prep Batch ID: 947573
Batch ID: 947574
Dilution: 10

CAS No		Parmname	Amount Added ug/kg	Sample Conc. ug/kg		Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS	Aroclor-1016	36.5	0.00	U	36.3	99	23-119
11096-82-5	MS	Aroclor-1260	36.5	0.00	U	35.6	97	28-124

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1449
Client ID: RE46-10-11901MSD
Lab Sample ID: 1202029846
Instrument: ECD8A.I
Analyst: JAOC
Inj. Vol: 1 uL

Sample Type: Matrix Spike Duplicate
Matrix: S
%Moisture: 9.1
Analysis Date: 02/02/2010 19:08
Prep Batch ID: 947573
Batch ID: 947574

Dilution: 10

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	36.4	0.00	U	32.5	89	23-119	11	0-28
11096-82-5	MSD Aroclor-1260	36.4	0.00	U	33.3	91	28-124	7	0-30

Method Blank Summary

SDG Number:	10-1432	**Client:**	LANL010	**Matrix:**	SOIL
Client ID:	MB for batch 947573	**Instrument ID:**	ECD8A.I_2 ECD8A.I_1	**Data File:**	032b3201-1.d 032f3201-1.d
Lab Sample ID:	1202029843			**Analyzed:**	02/02/10 18:18
Column:	CLP2 CLP1	**Prep Date:**	02/01/2010 19:57		
		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 947573	1202029844	033f3301-1.d 033b3301-1.d	02/02/10	1831
04 RE15-10-7884	245686002	049f4901.d 049b4901.d	02/02/10	2153
05 RE15-10-8056	245686013	050f5001.d 050b5001.d	02/02/10	2206
06 RE15-10-8057	245686014	051f5101.d 051b5101.d	02/02/10	2218
07 RE15-10-7883	245686001	058f5801.d 058b5801.d	02/03/10	2157

SAMPLE
DATA

PCB

Certificate of Analysis

Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686001**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**31.1**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-7883**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/03/2010 21:57**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.01 g**	**Final Volume:**	**1 mL**
Data File:	**058f5801.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	058b5801.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.83	ug/kg	1.61	4.83	1
11104-28-2	Aroclor-1221	U	4.83	ug/kg	1.61	4.83	1
11141-16-5	Aroclor-1232	U	4.83	ug/kg	1.61	4.83	1
53469-21-9	Aroclor-1242	U	4.83	ug/kg	1.61	4.83	1
12672-29-6	Aroclor-1248	U	4.83	ug/kg	1.61	4.83	1
11097-69-1	Aroclor-1254	J	3.90	ug/kg	1.61	4.83	2
11096-82-5	Aroclor-1260	U	4.83	ug/kg	1.61	4.83	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/058f5801.d
Lab Smp Id: 245686001 Client Smp ID: RE15-10-7883
Inj Date : 03-FEB-2010 21:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686001|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-7883|||
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 04-Feb-2010 07:01 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	31.07460	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO	
$ 11 4cmx					CAS #: 877-09-8			
2.256	2.257	-0.001	23473405	178.633	8.6	80.00- 120.00	100.00	
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.246	6.248	-0.002	18121607	181.250	8.8	80.00- 120.00	100.00	(M)
6 Aroclor-1254					CAS #: 11097-69-1			
3.839	3.839	0.000	333046	69.6025	3.4	80.00- 120.00	100.00	(aM)
4.027	4.026	0.001	451019	68.6545	3.3	116.04- 156.04	135.42	
4.223	4.222	0.001	345873	67.3150	3.2	87.24- 127.24	103.85	
4.308	4.309	-0.001	532662	60.5484	2.9	166.19- 206.19	159.94	
4.503	4.504	-0.001	447900	64.7850	3.1	125.45- 165.45	134.49	
		Average of Peak Concentrations =			3.2			

QC Flag Legend

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

Data File: /chem/ecd8a.i/020310a.b/058f5801.d

Date : 03-FEB-2010 21:57

Client ID: RE15-10-7883

Sample Info: |245686001|1|

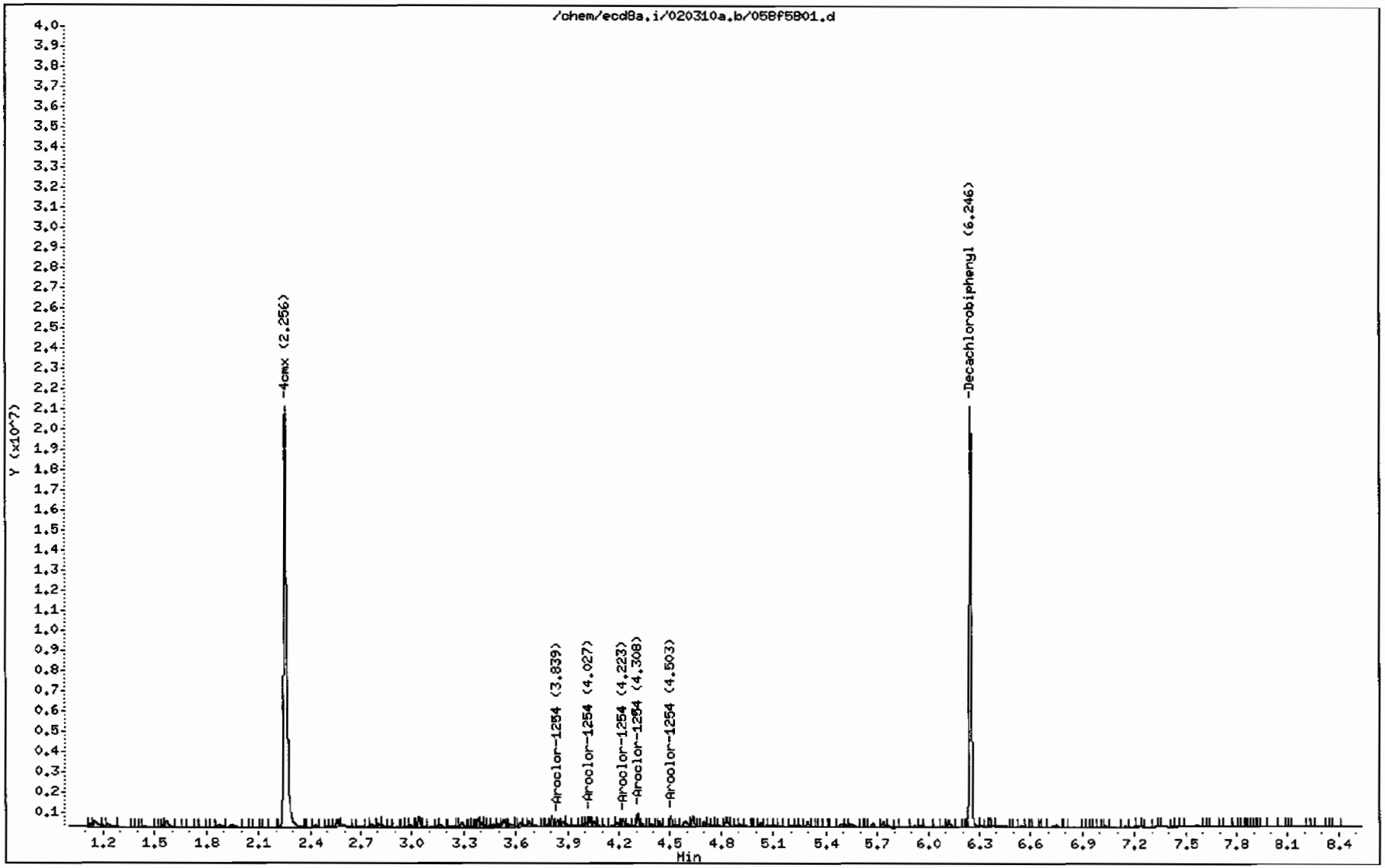
Volume Injected (uL): 1.0

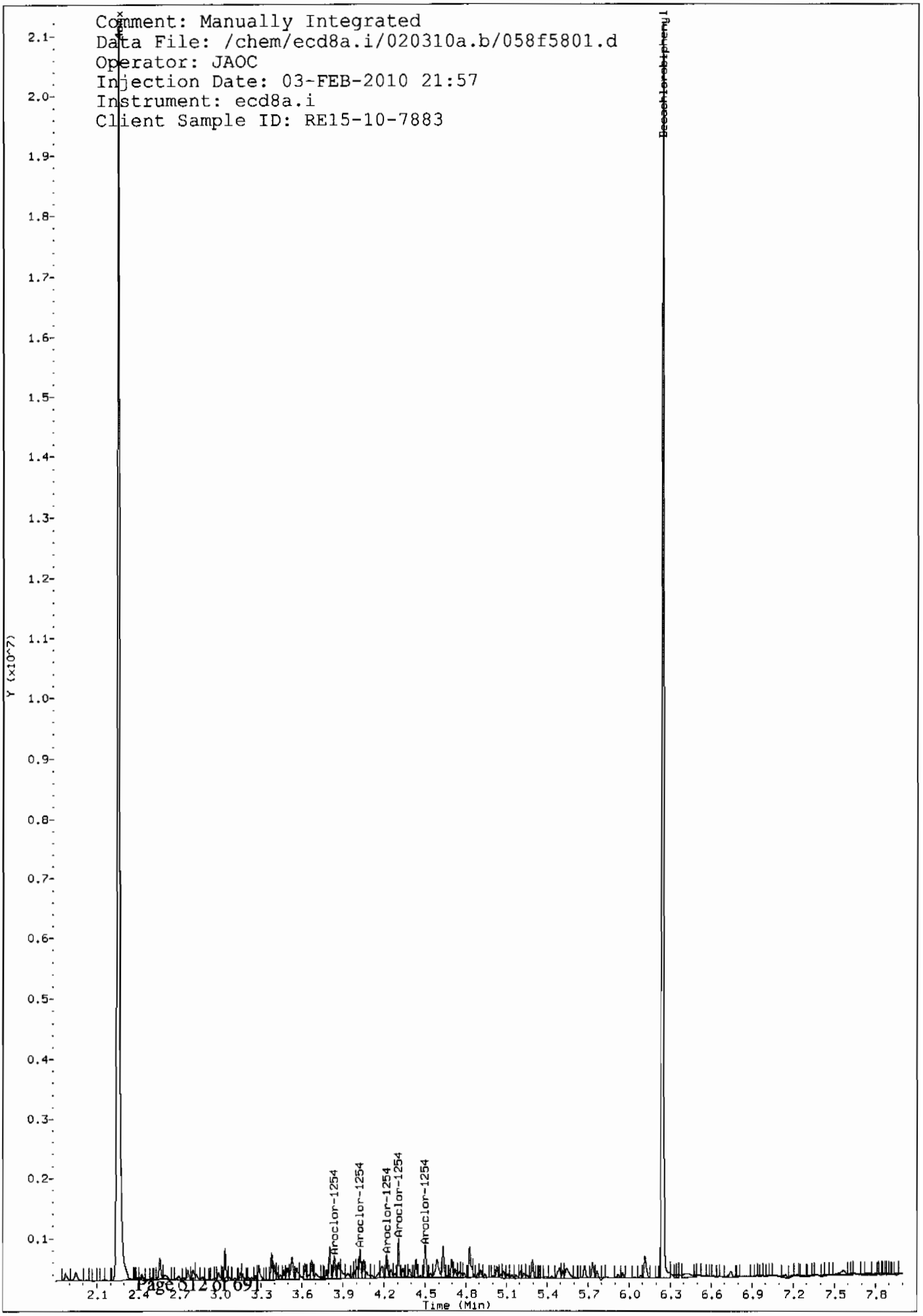
Column phase: CLP1

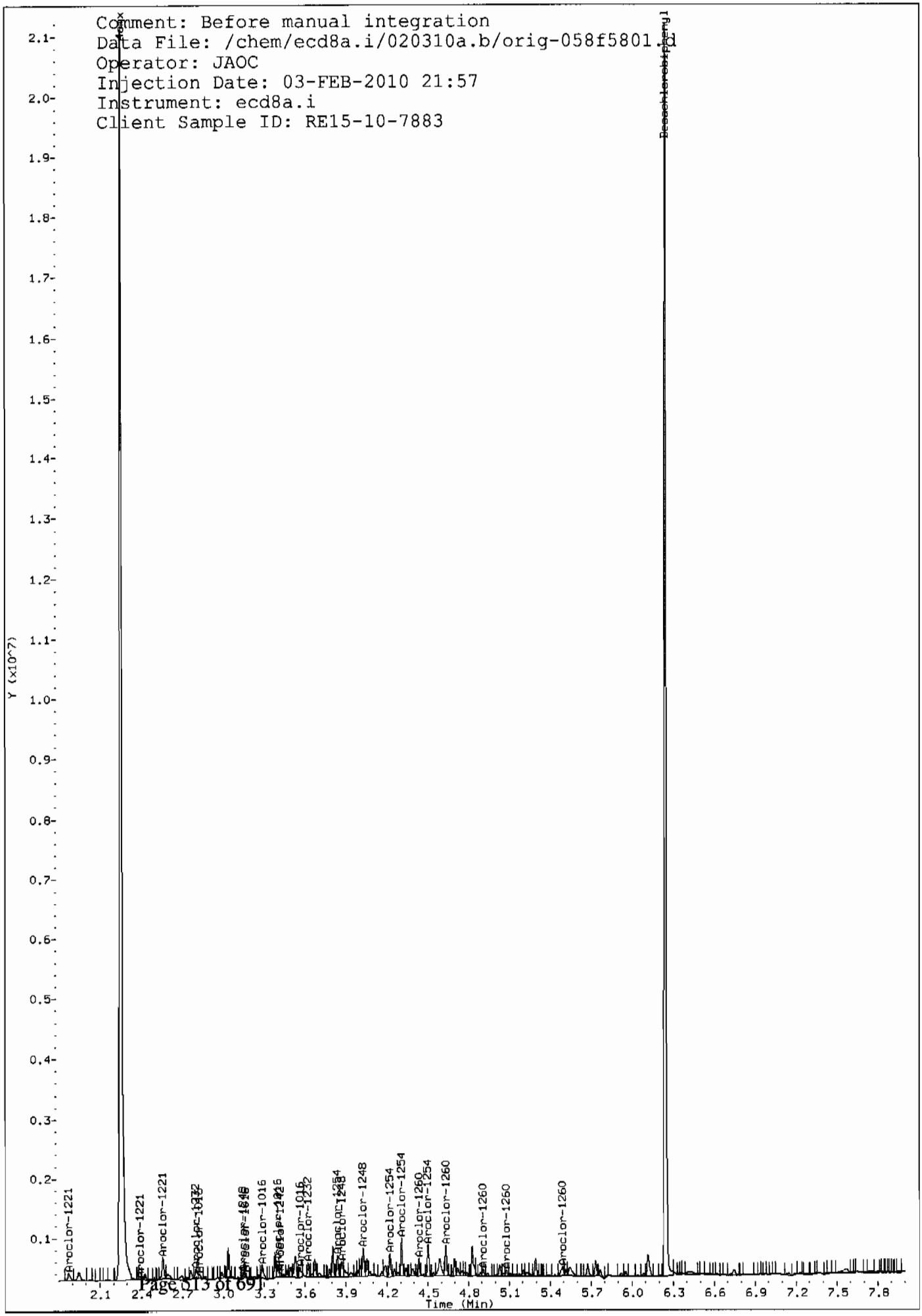
Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25




Comment: Manually Integrated
Data File: /chem/ecd8a.i/020310a.b/058f5801.d
Operator: JAOC
Injection Date: 03-FEB-2010 21:57
Instrument: ecd8a.i
Client Sample ID: RE15-10-7883
Decachlorobiphenyl
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
Y (x10^7)
Time (Min)


Comment: Before manual integration
Data File: /chem/ecd8a.i/020310a.b/orig-058f5801.d
Operator: JAOC
Injection Date: 03-FEB-2010 21:57
Instrument: ecd8a.i
Client Sample ID: RE15-10-7883
Tetrachloro-m-xylene
Decachlorobiphenyl
Aroclor-1221
Aroclor-1221
Aroclor-1016
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1254
Aroclor-1260
Aroclor-1254
Aroclor-1260
Aroclor-1260
Aroclor-1260
Aroclor-1260
Y (x10^7)
Time (Min)

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/058b5801.d
Lab Smp Id: 245686001 Client Smp ID: RE15-10-7883
Inj Date : 03-FEB-2010 21:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686001|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-7883|||
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 04-Feb-2010 06:58 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	31.07460	% Moisture

Cpnd Variable Local Compound Variable

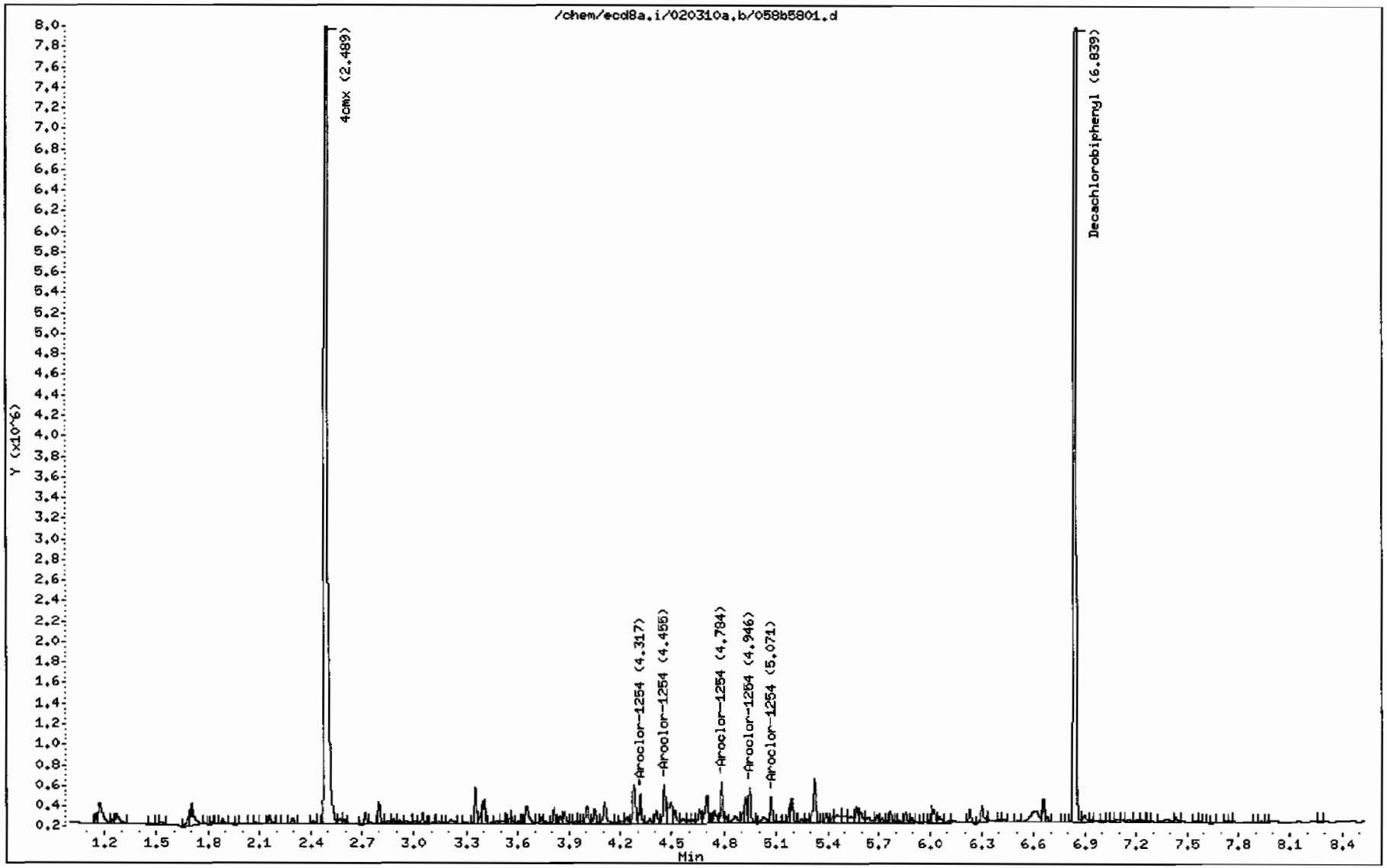
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	
$ 11 4cmx					CAS #: 877-09-8			
2.489	2.490	-0.001	16593535	191.074	9.2	80.00- 120.00	100.00	
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.839	6.840	-0.001	12603934	194.374	9.4	80.00- 120.00	100.00	(M)
6 Aroclor-1254					CAS #: 11097-69-1			
4.317	4.316	0.001	270378	78.3690	3.8	80.00- 120.00	100.00	(aM)
4.455	4.455	0.000	362706	92.7612	4.5	93.02- 133.02	134.15	
4.784	4.784	0.000	339262	61.6845	3.0	140.53- 180.53	125.48	
4.946	4.946	0.000	318838	79.4963	3.8	96.60- 136.60	117.92	
5.071	5.072	-0.001	239590	93.9985	4.5	52.89- 92.89	88.61	
Average of Peak Concentrations =					3.9			

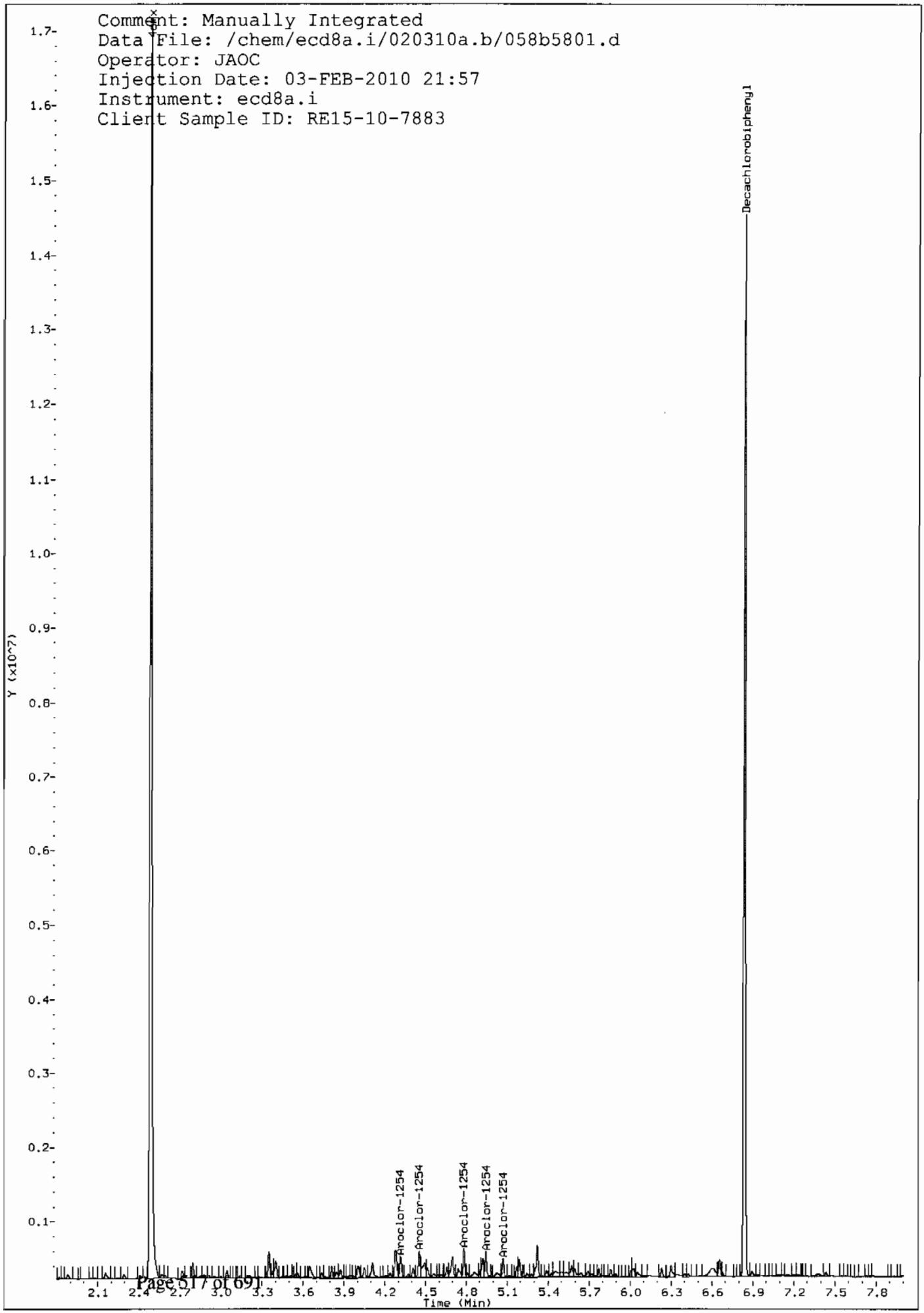
QC Flag Legend

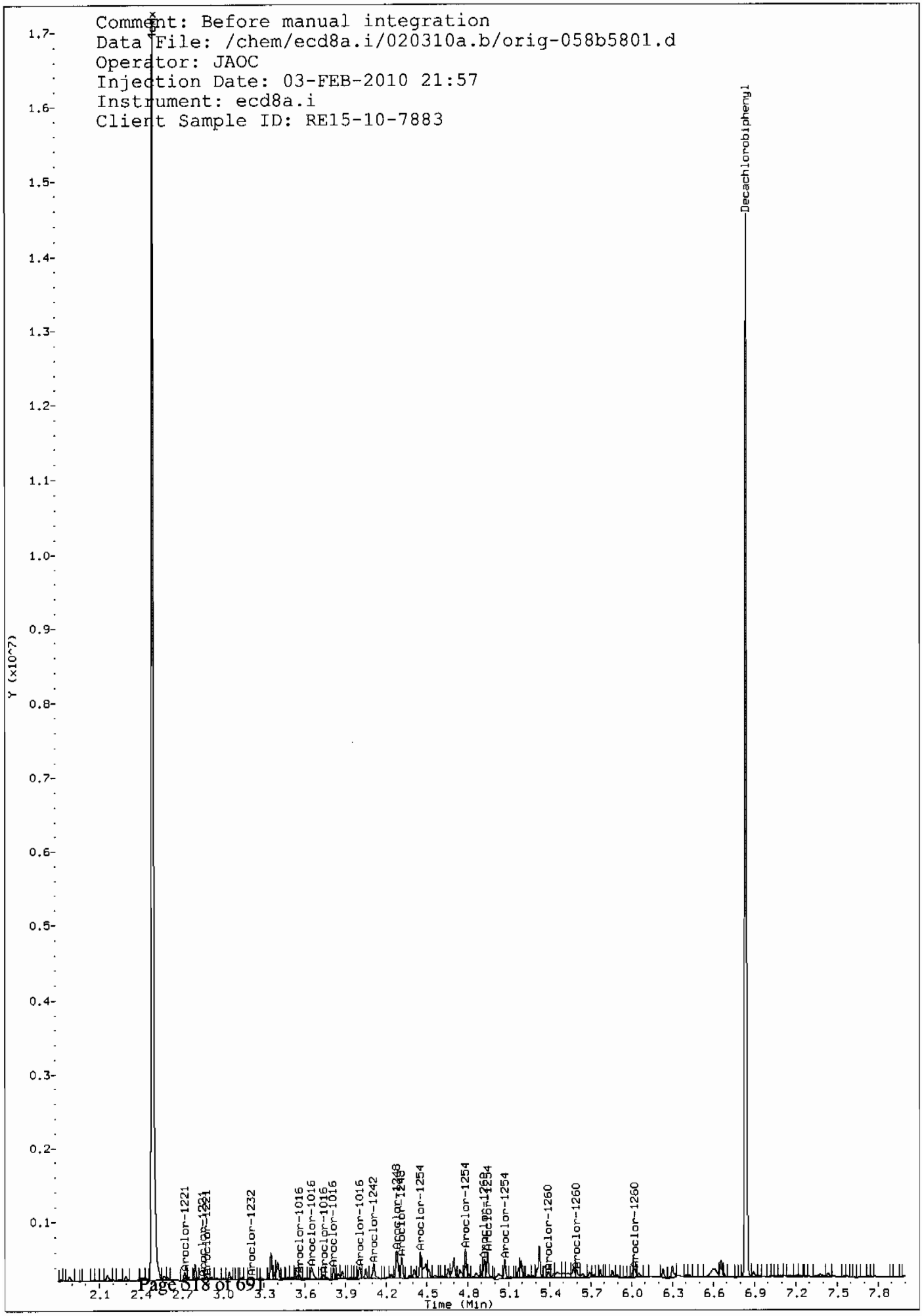
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/ecd8a.i/020310a.b/058b5801.d
Date : 03-FEB-2010 21:57
Client ID: RE15-10-7883
Sample Info: 124568600111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25




Comment: Manually Integrated
Data File: /chem/ecd8a.i/020310a.b/058b5801.d
Operator: JAOC
Injection Date: 03-FEB-2010 21:57
Instrument: ecd8a.i
Client Sample ID: RE15-10-7883
Decachlorobiphenyl
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
Y (x10^7)
Time (Min)


Comment: Before manual integration
Data File: /chem/ecd8a.i/020310a.b/orig-058b5801.d
Operator: JAOC
Injection Date: 03-FEB-2010 21:57
Instrument: ecd8a.i
Client Sample ID: RE15-10-7883
Decachlorobiphenyl
Aroclor-1221
Aroclor-1232
Aroclor-1016
Aroclor-1016
Aroclor-1016
Aroclor-1016
Aroclor-1016
Aroclor-1242
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1260
Aroclor-1260
Aroclor-1260
Y (x10^7)
Time (Min)

PCB

Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686002**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**5.8**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-7884**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 21:53**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.08 g**	**Final Volume:**	**1 mL**
Data File:	**049f4901.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	049b4901.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/049f4901.d
Lab Smp Id: 245686002 Client Smp ID: RE15-10-7884
Inj Date : 02-FEB-2010 21:53
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686002|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-7884|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	5.81950	% Moisture

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.257	2.257	0.000	19006069	145.089	5.1	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.248	6.249	-0.001	14540141	164.428	5.8	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/049f4901.d

Date : 02-FEB-2010 21:53

Client ID: RE15-10-7884

Sample Info: 124568600211

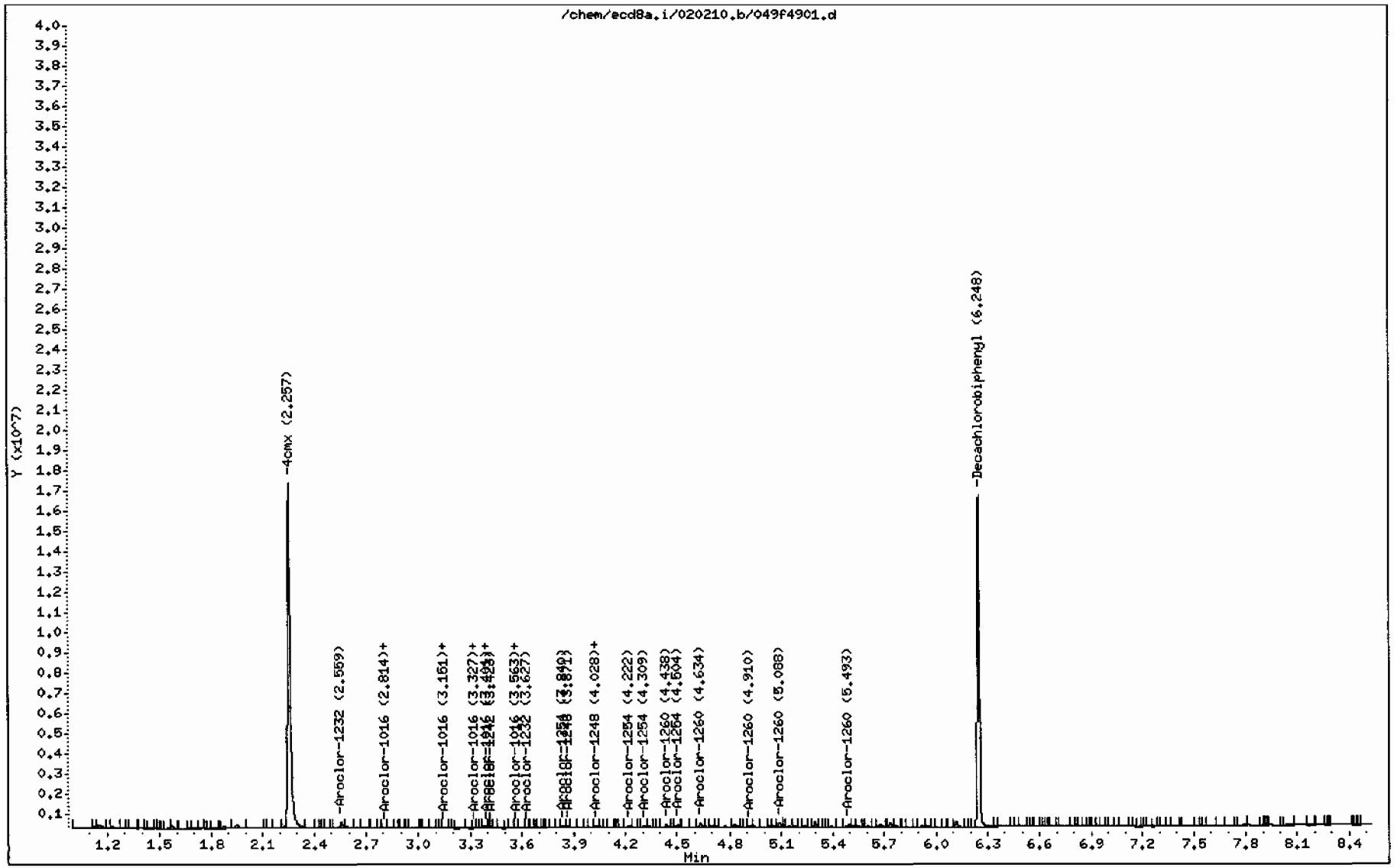
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/049b4901.d
Lab Smp Id: 245686002 Client Smp ID: RE15-10-7884
Inj Date : 02-FEB-2010 21:53
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686002|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-7884|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	5.81950	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.490	2.490	0.000	13023457	159.577	5.6	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.841	6.841	0.000	9878284	169.017	6.0	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/049b4901.d

Date : 02-FEB-2010 21:53

Client ID: RE15-10-7884

Sample Info: |24568600211|

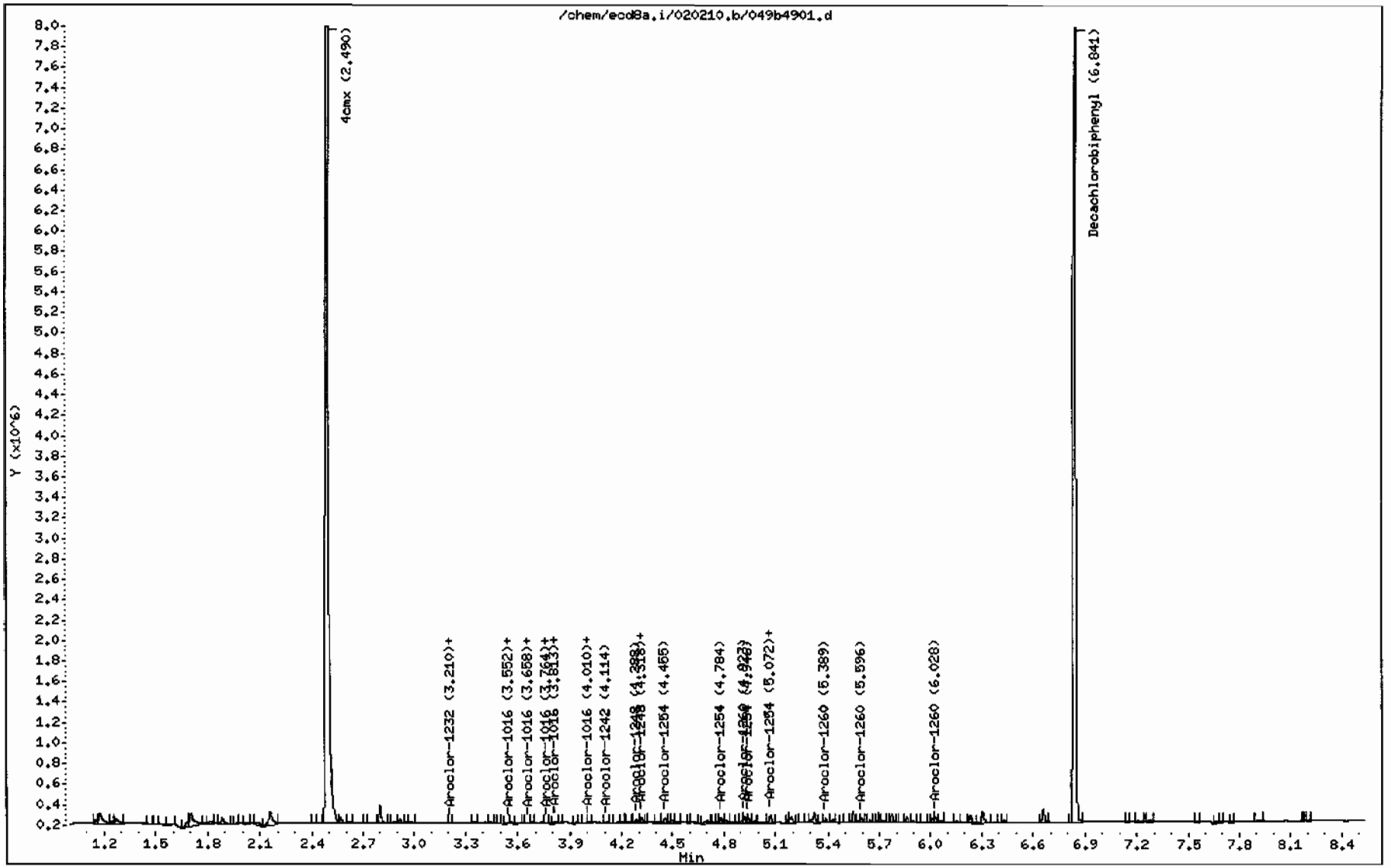
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



PCB

Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686013**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**3.6**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-8056**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 22:06**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.02 g**	**Final Volume:**	**1 mL**
Data File:	**050f5001.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	050b5001.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.45	ug/kg	1.15	3.45	1
11104-28-2	Aroclor-1221	U	3.45	ug/kg	1.15	3.45	1
11141-16-5	Aroclor-1232	U	3.45	ug/kg	1.15	3.45	1
53469-21-9	Aroclor-1242	U	3.45	ug/kg	1.15	3.45	1
12672-29-6	Aroclor-1248	U	3.45	ug/kg	1.15	3.45	1
11097-69-1	Aroclor-1254	U	3.45	ug/kg	1.15	3.45	1
11096-82-5	Aroclor-1260	U	3.45	ug/kg	1.15	3.45	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/050f5001.d
Lab Smp Id: 245686013 Client Smp ID: RE15-10-8056
Inj Date : 02-FEB-2010 22:06
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686013|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-8056|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	3.56420	% Moisture

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.256	2.257	-0.001	16785627	128.138	4.4	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.248	6.249	-0.001	12826705	145.051	5.0	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/050f5001.d

Date : 02-FEB-2010 22:06

Client ID: RE15-10-8056

Sample Info: |24568601311|

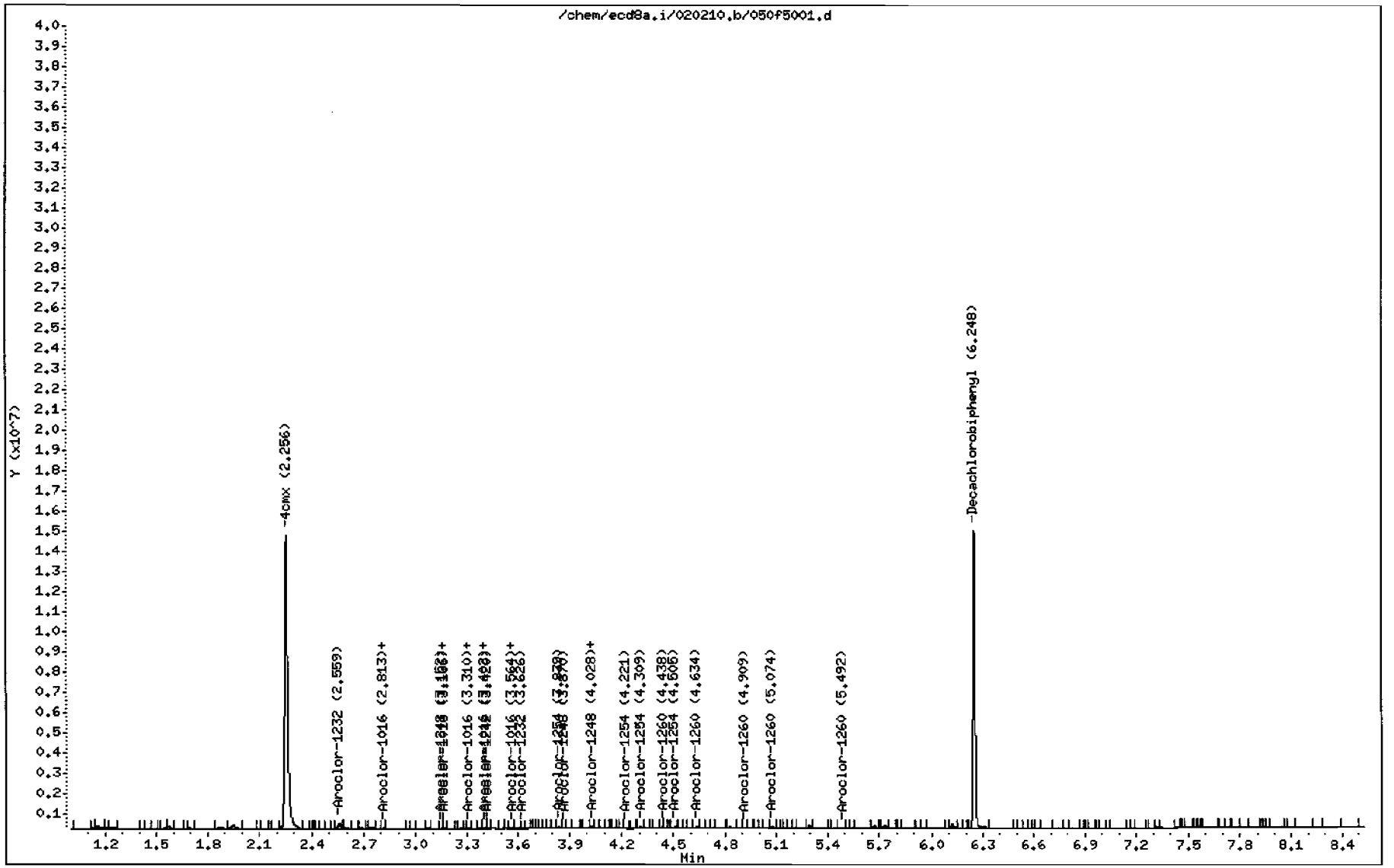
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/050b5001.d
Lab Smp Id: 245686013 Client Smp ID: RE15-10-8056
Inj Date : 02-FEB-2010 22:06
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686013|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-8056|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	3.56420	% 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		
2.489	2.490	-0.001	11598716	142.119	4.9	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.841	6.841	0.000	8571630	146.660	5.1	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/050b5001.d

Date : 02-FEB-2010 22:06

Client ID: RE15-10-8056

Instrument: ecd8a.i

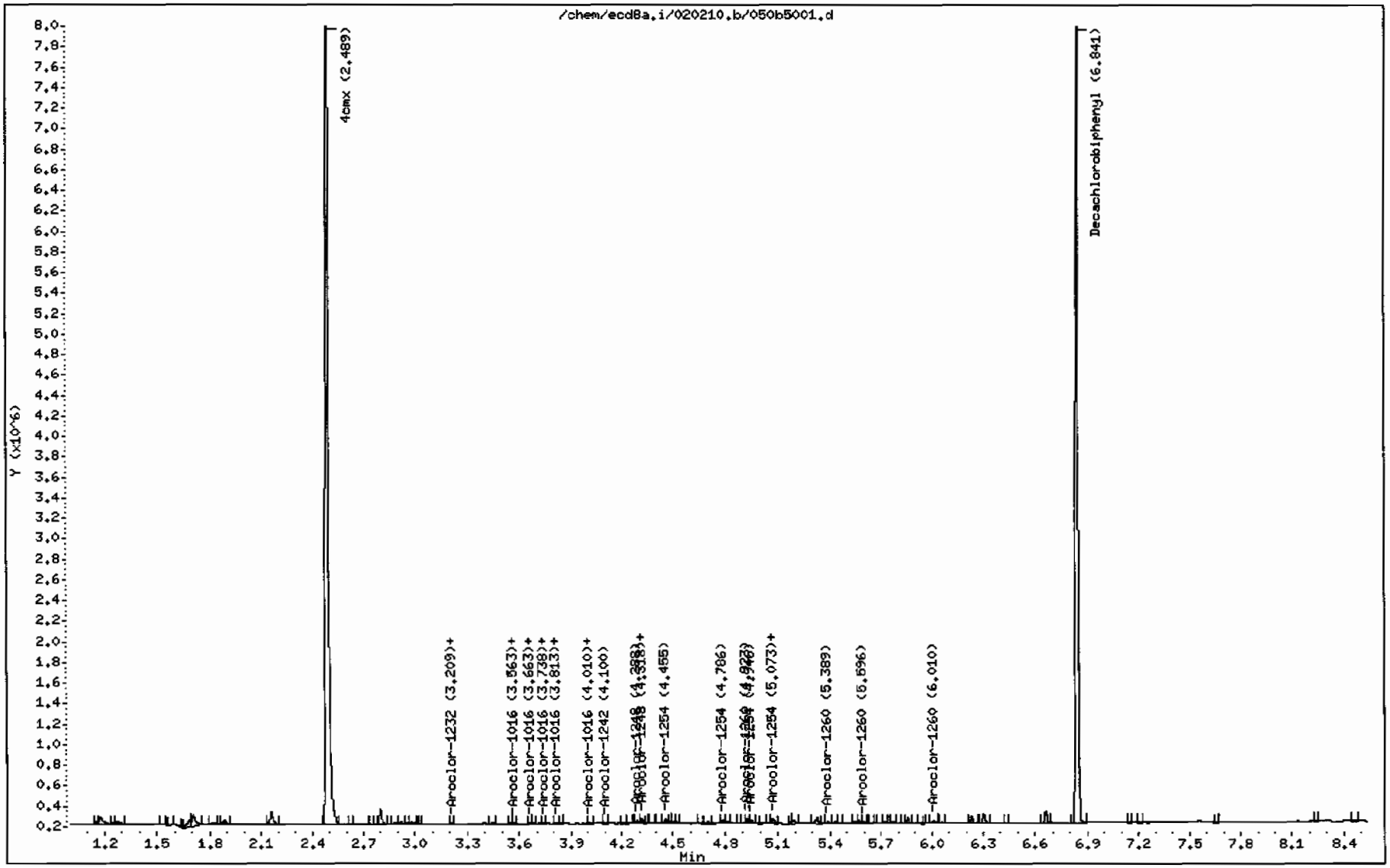
Sample Info: |245686013|1|

Volume Injected (uL): 1.0

Operator: JAOC

Column phase: CLP2

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**	**Date Collected:**	**01/25/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**245686014**	**Date Received:**	**01/28/2010 08:45**	**%Moisture:**	**29.8**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15-10-8057**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 22:18**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30.18 g**	**Final Volume:**	**1 mL**
Data File:	**051f5101.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	051b5101.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.72	ug/kg	1.57	4.72	1
11104-28-2	Aroclor-1221	U	4.72	ug/kg	1.57	4.72	1
11141-16-5	Aroclor-1232	U	4.72	ug/kg	1.57	4.72	1
53469-21-9	Aroclor-1242	U	4.72	ug/kg	1.57	4.72	1
12672-29-6	Aroclor-1248	U	4.72	ug/kg	1.57	4.72	1
11097-69-1	Aroclor-1254	U	4.72	ug/kg	1.57	4.72	1
11096-82-5	Aroclor-1260	U	4.72	ug/kg	1.57	4.72	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/051f5101.d
Lab Smp Id: 245686014 Client Smp ID: RE15-10-8057
Inj Date : 02-FEB-2010 22:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686014|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-8057|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	29.79500	% 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		
2.257	2.257	0.000	18569733	141.758	6.7	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.248	6.249	-0.001	15287134	172.875	8.2	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/051f5101.d

Date : 02-FEB-2010 22:18

Client ID: RE15-10-8057

Sample Info: |245686014|1|

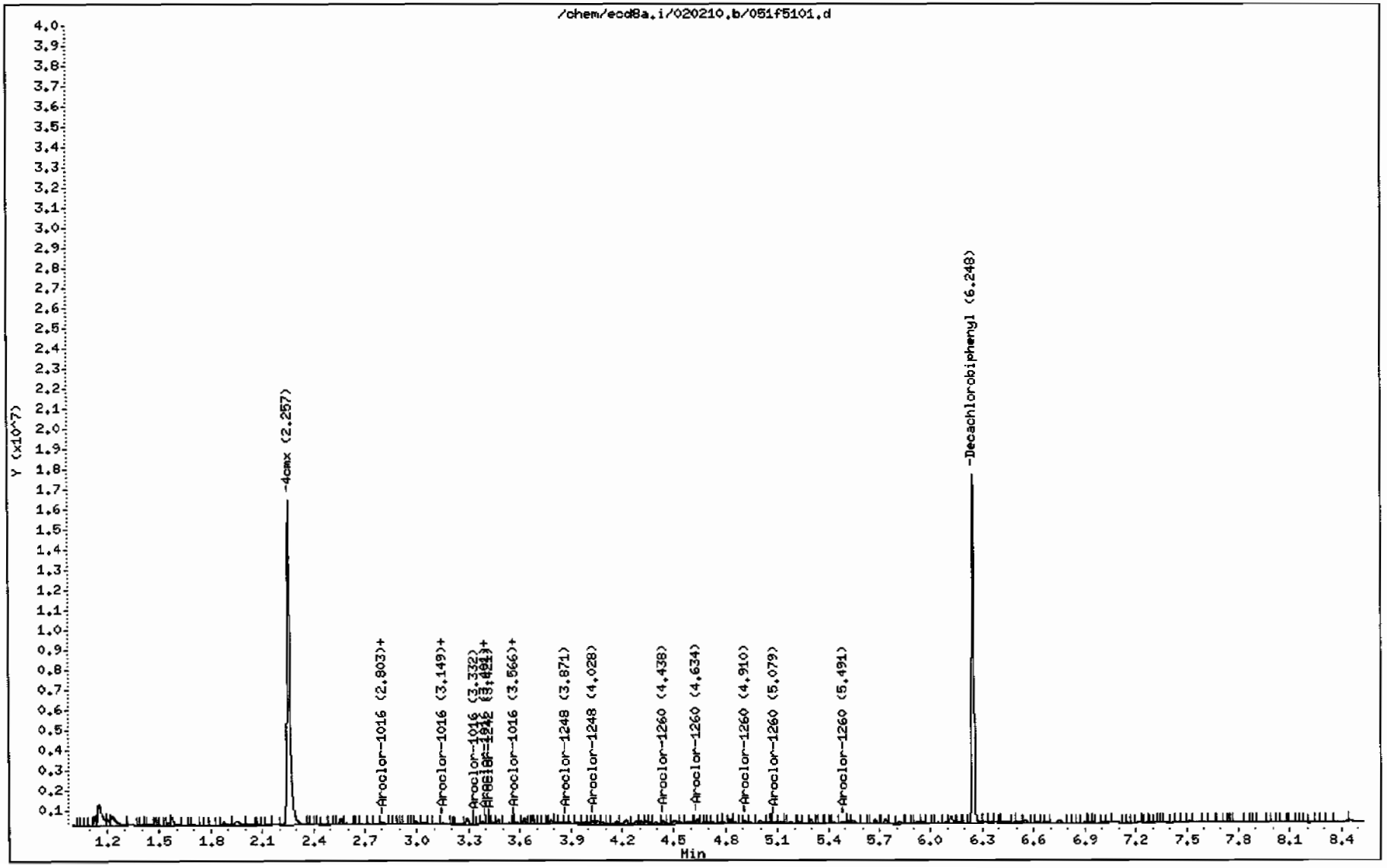
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/051b5101.d
Lab Smp Id: 245686014 Client Smp ID: RE15-10-8057
Inj Date : 02-FEB-2010 22:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |245686014|1|
Misc Info : |ECD82P_1S|947574|SVA|LANL|SOIL|RE15-10-8057|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	29.79500	% Moisture

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
$ 11 4cmx					CAS #: 877-09-8		
2.490	2.490	0.000	12862837	157.609	7.4	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.840	6.841	-0.001	10293409	176.120	8.3	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/051b5101.d

Page 1

Date : 02-FEB-2010 22:18

Client ID: RE15-10-8057

Instrument: ecd8a.i

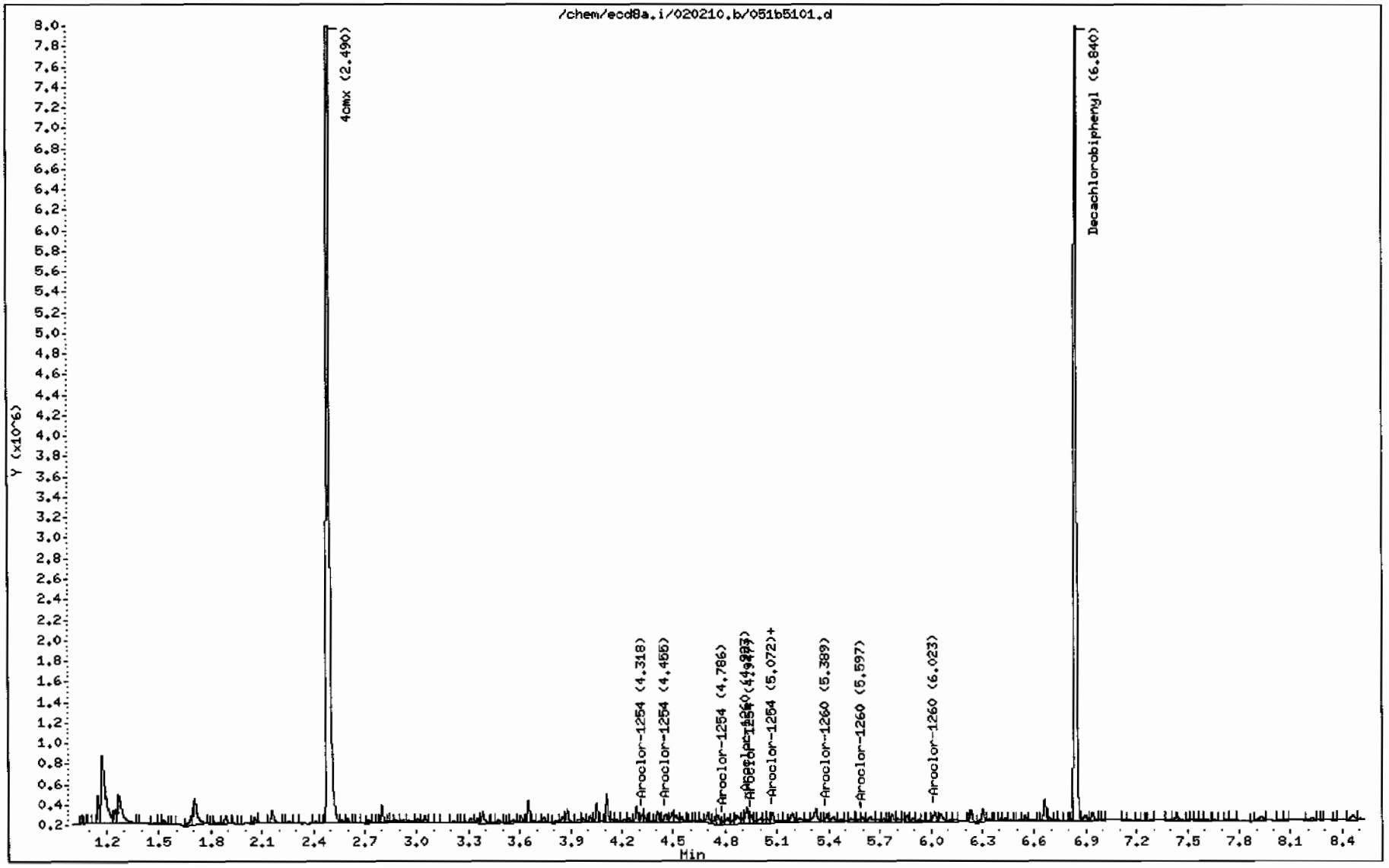
Sample Info: |245686014|1|

Volume Injected (uL): 1.0

Operator: JAOC

Column phase: CLP2

Column diameter: 0.25



STANDARDS DATA

Report Date: 10-Feb-2010 08:39

Calibration History

Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Start Cal Date: 11-JAN-2010 13:59
End Cal Date : 22-JAN-2010 07:45

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 06:55	AR1268	/chem/ecd8a.i/012210.b/003f0301.d
20-JAN-2010 09:30	AR1232	/chem/ecd8a.i/012010.b/006f0601.d
11-JAN-2010 17:42	AR1248	/chem/ecd8a.i/011110a.b/020f2001.d
19-JAN-2010 09:24	AR1242	/chem/ecd8a.i/011910.b/004f0401.d
11-JAN-2010 15:13	AR1254	/chem/ecd8a.i/011110a.b/008f0801.d
21-JAN-2010 09:43	AR1660	/chem/ecd8a.i/012110.b/005f0501.d
Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 07:08	AR1268	/chem/ecd8a.i/012210.b/004f0401.d
20-JAN-2010 09:42	AR1232	/chem/ecd8a.i/012010.b/007f0701.d
11-JAN-2010 17:54	AR1248	/chem/ecd8a.i/011110a.b/021f2101.d
19-JAN-2010 09:36	AR1242	/chem/ecd8a.i/011910.b/005f0501.d
11-JAN-2010 15:26	AR1254	/chem/ecd8a.i/011110a.b/009f0901.d
21-JAN-2010 09:56	AR1660	/chem/ecd8a.i/012110.b/006f0601.d
Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 07:20	AR1268	/chem/ecd8a.i/012210.b/005f0501.d
20-JAN-2010 09:54	AR1232	/chem/ecd8a.i/012010.b/008f0801.d
11-JAN-2010 18:07	AR1248	/chem/ecd8a.i/011110a.b/022f2201.d
19-JAN-2010 09:49	AR1242	/chem/ecd8a.i/011910.b/006f0601.d
11-JAN-2010 15:38	AR1254	/chem/ecd8a.i/011110a.b/010f1001.d
21-JAN-2010 10:08	AR1660	/chem/ecd8a.i/012110.b/007f0701.d
Cal Level: 4 , Cal Amount: 1000.00000		
11-JAN-2010 19:45	DDT	/chem/ecd8a.i/011110a.b/030f3001.d
22-JAN-2010 07:33	AR1268	/chem/ecd8a.i/012210.b/006f0601.d
11-JAN-2010 19:21	AR1262	/chem/ecd8a.i/011110a.b/028f2801.d
11-JAN-2010 19:08	AR1221	/chem/ecd8a.i/011110a.b/027f2701.d
20-JAN-2010 10:07	AR1232	/chem/ecd8a.i/012010.b/009f0901.d
11-JAN-2010 18:19	AR1248	/chem/ecd8a.i/011110a.b/023f2301.d
19-JAN-2010 10:01	AR1242	/chem/ecd8a.i/011910.b/007f0701.d
11-JAN-2010 15:51	AR1254	/chem/ecd8a.i/011110a.b/011f1101.d
21-JAN-2010 10:21	AR1660	/chem/ecd8a.i/012110.b/008f0801.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 07:45	AR1268	/chem/ecd8a.i/012210.b/007f0701.d
20-JAN-2010 10:19	AR1232	/chem/ecd8a.i/012010.b/010f1001.d
11-JAN-2010 18:31	AR1248	/chem/ecd8a.i/011110a.b/024f2401.d

19-JAN-2010 10:13	AR1242	/chem/ecd8a.i/011910.b/008f0801.d
11-JAN-2010 16:03	AR1254	/chem/ecd8a.i/011110a.b/012f1201.d
21-JAN-2010 10:33	AR1660	/chem/ecd8a.i/012110.b/009f0901.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 22:34	AR1660	/chem/ecd8a.i/020210.b/052f5201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 20:26	AR1660	/chem/ecd8a.i/020210.b/042f4201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 17:54	AR1660	/chem/ecd8a.i/020210.b/030f3001.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 16:27	AR1660	/chem/ecd8a.i/020210.b/023f2301.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:45	AR1268	/chem/ecd8a.i/020210.b/010f1001.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:32	AR1262	/chem/ecd8a.i/020210.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:20	AR1221	/chem/ecd8a.i/020210.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:08	AR1232	/chem/ecd8a.i/020210.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:43	AR1248	/chem/ecd8a.i/020210.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:30	AR1242	/chem/ecd8a.i/020210.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:18	AR1254	/chem/ecd8a.i/020210.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:55	AR1660	/chem/ecd8a.i/020210.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:06	AR1660	/chem/ecd8a.i/020210.b/002f0201.d

Report Date: 03-Feb-2010 11:27

Calibration History

Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Start Cal Date: 11-JAN-2010 13:59
End Cal Date : 22-JAN-2010 07:45

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 06:55	AR1268	/chem/ecd8a.i/012210.b/003b0301.d
20-JAN-2010 09:30	AR1232	/chem/ecd8a.i/012010.b/006b0601.d
11-JAN-2010 17:42	AR1248	/chem/ecd8a.i/011110a.b/020b2001.d
19-JAN-2010 09:24	AR1242	/chem/ecd8a.i/011910.b/004b0401.d
11-JAN-2010 15:13	AR1254	/chem/ecd8a.i/011110a.b/008b0801.d
21-JAN-2010 09:43	AR1660	/chem/ecd8a.i/012110.b/005b0501.d
Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 07:08	AR1268	/chem/ecd8a.i/012210.b/004b0401.d
20-JAN-2010 09:42	AR1232	/chem/ecd8a.i/012010.b/007b0701.d
11-JAN-2010 17:54	AR1248	/chem/ecd8a.i/011110a.b/021b2101.d
19-JAN-2010 09:36	AR1242	/chem/ecd8a.i/011910.b/005b0501.d
11-JAN-2010 15:26	AR1254	/chem/ecd8a.i/011110a.b/009b0901.d
21-JAN-2010 09:56	AR1660	/chem/ecd8a.i/012110.b/006b0601.d
Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 07:20	AR1268	/chem/ecd8a.i/012210.b/005b0501.d
20-JAN-2010 09:54	AR1232	/chem/ecd8a.i/012010.b/008b0801.d
11-JAN-2010 18:07	AR1248	/chem/ecd8a.i/011110a.b/022b2201.d
19-JAN-2010 09:49	AR1242	/chem/ecd8a.i/011910.b/006b0601.d
11-JAN-2010 15:38	AR1254	/chem/ecd8a.i/011110a.b/010b1001.d
21-JAN-2010 10:08	AR1660	/chem/ecd8a.i/012110.b/007b0701.d
Cal Level: 4 , Cal Amount: 1000.00000		
11-JAN-2010 19:45	DDT	/chem/ecd8a.i/011110a.b/030b3001.d
22-JAN-2010 07:33	AR1268	/chem/ecd8a.i/012210.b/006b0601.d
11-JAN-2010 19:21	AR1262	/chem/ecd8a.i/011110a.b/028b2801.d
11-JAN-2010 19:08	AR1221	/chem/ecd8a.i/011110a.b/027b2701.d
20-JAN-2010 10:07	AR1232	/chem/ecd8a.i/012010.b/009b0901.d
11-JAN-2010 18:19	AR1248	/chem/ecd8a.i/011110a.b/023b2301.d
19-JAN-2010 10:01	AR1242	/chem/ecd8a.i/011910.b/007b0701.d
11-JAN-2010 15:51	AR1254	/chem/ecd8a.i/011110a.b/011b1101.d
21-JAN-2010 10:21	AR1660	/chem/ecd8a.i/012110.b/008b0801.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 07:45	AR1268	/chem/ecd8a.i/012210.b/007b0701.d
20-JAN-2010 10:19	AR1232	/chem/ecd8a.i/012010.b/010b1001.d
11-JAN-2010 18:31	AR1248	/chem/ecd8a.i/011110a.b/024b2401.d
19-JAN-2010 10:13	AR1242	/chem/ecd8a.i/011910.b/008b0801.d
11-JAN-2010 16:03	AR1254	/chem/ecd8a.i/011110a.b/012b1201.d
21-JAN-2010 10:33	AR1660	/chem/ecd8a.i/012110.b/009b0901.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 22:34	AR1660	/chem/ecd8a.i/020210.b/052b5201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 20:26	AR1660	/chem/ecd8a.i/020210.b/042b4201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 17:54	AR1660	/chem/ecd8a.i/020210.b/030b3001.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 16:27	AR1660	/chem/ecd8a.i/020210.b/023b2301.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:45	AR1268	/chem/ecd8a.i/020210.b/010b1001.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:32	AR1262	/chem/ecd8a.i/020210.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:20	AR1221	/chem/ecd8a.i/020210.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 13:08	AR1232	/chem/ecd8a.i/020210.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:43	AR1248	/chem/ecd8a.i/020210.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:30	AR1242	/chem/ecd8a.i/020210.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:18	AR1254	/chem/ecd8a.i/020210.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:55	AR1660	/chem/ecd8a.i/020210.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
02-FEB-2010 12:06	AR1660	/chem/ecd8a.i/020210.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Quant Method : ESTD Target Version : 3.50
Last Update : 03-Feb-2010 08:20 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	758.000000
Initial:End Threshold	379.000000
Initial:Area Threshold	734.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	1.500000
6.500:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.814	2.784-2.844	4.573e+03
	3.166	3.136-3.196	5.280e+03
	3.310	3.280-3.340	2.359e+03
	3.402	3.372-3.432	2.088e+03
	3.564	3.534-3.594	2.933e+03
2 Aroclor-1221	1.858	1.828-1.888	8.650e+02
	2.398	2.368-2.428	1.243e+03
	2.543	2.513-2.573	2.843e+03
3 Aroclor-1232	2.544	2.514-2.574	2.718e+03
	2.814	2.784-2.844	2.177e+03
	3.309	3.279-3.339	1.122e+03
	3.564	3.534-3.594	1.266e+03
	3.625	3.595-3.655	8.091e+02
4 Aroclor-1242	2.814	2.784-2.844	3.662e+03
	3.166	3.136-3.196	4.257e+03
	3.402	3.372-3.432	1.680e+03
	3.419	3.389-3.449	1.712e+03
	3.564	3.534-3.594	2.409e+03
5 Aroclor-1248	3.151	3.121-3.181	2.476e+03
	3.402	3.372-3.432	3.201e+03
	3.564	3.534-3.594	4.148e+03
	3.871	3.841-3.901	4.922e+03
	4.030	4.000-4.060	3.980e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m

	Compound	RT	RT Window	RF
	6 Aroclor-1254	3.840	3.810-3.870	4.179e+03
		4.027	3.997-4.057	5.560e+03
		4.222	4.192-4.252	4.239e+03
		4.309	4.279-4.339	7.260e+03
		4.505	4.475-4.535	5.739e+03
	7 Aroclor-1260	4.438	4.408-4.468	5.758e+03
		4.635	4.604-4.665	8.705e+03
		4.910	4.880-4.939	5.334e+03
		5.082	5.052-5.112	5.551e+03
		5.493	5.463-5.523	5.896e+03
	8 Aroclor-1262	4.340	4.310-4.370	2.695e+03
		4.438	4.408-4.468	4.257e+03
		4.633	4.603-4.663	5.776e+03
		4.909	4.879-4.939	7.175e+03
		5.081	5.051-5.111	6.892e+03
	9 Aroclor-1268	5.517	5.487-5.547	1.692e+04
		5.543	5.513-5.573	1.583e+04
		5.677	5.647-5.707	1.194e+04
		5.923	5.893-5.953	5.447e+03
		6.118	6.088-6.148	3.313e+04
M	10 Aroclor-Total	1.000	0.980-1.020	
$	11 4cmx	2.257	2.227-2.287	1.310e+05
$	12 Decachlorobiphenyl	6.249	6.219-6.279	8.843e+04
	13 4,4'-DDT	4.857	4.837-4.877	1.511e+04
	14 4,4'-DDD	4.663	4.643-4.683	1.054e+05
	15 4,4'-DDE	4.239	4.219-4.259	1.013e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Quant Method : ESTD Target Version : 3.50
Last Update : 03-Feb-2010 08:24 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	733.000000
Initial:End Threshold	366.500000
Initial:Area Threshold	522.000000
Initial:P-P Resolution	0.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	2.000000
9.000:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.564	3.534-3.594	3.201e+03
	3.663	3.633-3.693	2.277e+03
	3.739	3.709-3.769	1.308e+03
	3.814	3.784-3.844	1.286e+03
	4.010	3.980-4.040	1.781e+03
2 Aroclor-1221	2.731	2.701-2.761	8.451e+02
	2.843	2.813-2.873	4.968e+02
	2.892	2.862-2.922	1.754e+03
3 Aroclor-1232	3.209	3.179-3.239	1.409e+03
	3.563	3.533-3.593	1.442e+03
	3.663	3.633-3.693	1.060e+03
	3.739	3.709-3.769	6.007e+02
	3.814	3.784-3.844	5.125e+02
4 Aroclor-1242	3.209	3.179-3.239	2.299e+03
	3.563	3.533-3.593	2.562e+03
	3.662	3.632-3.692	1.814e+03
	4.010	3.980-4.040	1.435e+03
	4.100	4.070-4.130	1.344e+03
5 Aroclor-1248	3.661	3.631-3.691	1.365e+03
	3.813	3.783-3.843	2.060e+03
	4.011	3.981-4.041	2.569e+03
	4.288	4.258-4.318	2.990e+03
	4.321	4.291-4.351	3.278e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m

	Compound	RT	RT Window	RF
	6 Aroclor-1254	4.317	4.287-4.347	2.859e+03
		4.456	4.426-4.486	3.187e+03
		4.785	4.755-4.815	4.447e+03
		4.947	4.917-4.977	3.180e+03
		5.072	5.042-5.102	2.064e+03
	7 Aroclor-1260	4.924	4.894-4.954	3.534e+03
		5.073	5.043-5.103	4.220e+03
		5.389	5.359-5.419	3.241e+03
		5.596	5.566-5.626	3.364e+03
		6.027	5.997-6.057	5.336e+03
	8 Aroclor-1262	4.923	4.893-4.953	2.646e+03
		5.072	5.042-5.102	3.071e+03
		5.389	5.359-5.419	4.384e+03
		5.597	5.567-5.627	3.992e+03
		6.025	5.995-6.055	5.646e+03
	9 Aroclor-1268	6.023	5.993-6.053	1.172e+04
		6.055	6.025-6.085	1.043e+04
		6.233	6.203-6.263	8.058e+03
		6.430	6.400-6.460	3.558e+03
		6.659	6.629-6.689	2.249e+04
M	10 Aroclor-Total	1.000	0.980-1.020	
$	11 4cmx	2.490	2.460-2.520	8.161e+04
$	12 Decachlorobiphenyl	6.841	6.811-6.871	5.845e+04
	13 4,4'-DDT	5.332	5.312-5.352	9.076e+03
	14 4,4'-DDD	5.111	5.091-5.131	6.676e+04
	15 4,4'-DDE	4.699	4.679-4.719	6.568e+04

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 11-JAN-2010 13:59
End Cal Date : 22-JAN-2010 07:45
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Cal Date : 03-Feb-2010 08:20 jen01212
Curve Type : Average

Calibration File Names:
Level 1: /chem/ecd8a.i/012210.b/003f0301.d
Level 2: /chem/ecd8a.i/012210.b/004f0401.d
Level 3: /chem/ecd8a.i/012210.b/005f0501.d
Level 4: /chem/ecd8a.i/011110a.b/030f3001.d
Level 5: /chem/ecd8a.i/012210.b/007f0701.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)	5544	4992	4516	4238	3574	4573	16.336
(2)	6126	5568	5171	5042	4495	5280	11.528
(3)	2814	2522	2278	2206	1975	2359	13.594
(4)	2524	2272	2039	1932	1674	2088	15.553
(5)	3515	3125	2831	2763	2432	2933	13.907
2 Aroclor-1221(1)	+++++	+++++	+++++	865	+++++	865	0.000
(2)	+++++	+++++	+++++	1243	+++++	1243	0.000
(3)	+++++	+++++	+++++	2843	+++++	2843	0.000
3 Aroclor-1232(1)	3374	2949	2717	2521	2030	2718	18.355
(2)	2747	2363	2169	1992	1614	2177	19.347
(3)	1428	1210	1099	1021	853	1122	19.142
(4)	1605	1376	1232	1159	957	1266	19.160
(5)	1010	876	800	749	609	809	18.402
4 Aroclor-1242(1)	4444	4013	3705	3398	2752	3662	17.453
(2)	4821	4512	4363	4076	3514	4257	11.621
(3)	2011	1844	1676	1558	1310	1680	15.986
(4)	2071	1856	1718	1577	1340	1712	16.160
(5)	2857	2618	2419	2238	1913	2409	14.958
5 Aroclor-1248(1)	2877	2625	2462	2354	2062	2476	12.283
(2)	3817	3429	3154	3079	2526	3201	14.851
(3)	4809	4448	4150	3963	3367	4148	13.052
(4)	5603	5300	4879	4801	4026	4922	12.135
(5)	4596	4254	3935	3846	3269	3980	12.435
6 Aroclor-1254(1)	4923	4409	4235	3959	3371	4179	13.702
(2)	6509	5809	5629	5295	4557	5560	12.856
(3)	4825	4413	4321	4080	3558	4239	10.999
(4)	8248	7532	7424	7038	6056	7260	11.056
(5)	6584	5916	5833	5556	4804	5739	11.235

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 11-JAN-2010 13:59
End Cal Date : 22-JAN-2010 07:45
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Cal Date : 03-Feb-2010 08:20 jen01212
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
	7 Aroclor-1260(1)	6689	6169	5571	5537	4822	5758	12.265
	(2)	10032	9214	8419	8445	7416	8705	11.243
	(3)	6226	5622	5156	5122	4544	5334	11.780
	(4)	6431	5836	5374	5354	4761	5551	11.209
	(5)	6696	6086	5816	5707	5176	5896	9.434
	8 Aroclor-1262(1)	+++++	+++++	+++++	2695	+++++	2695	0.000
	(2)	+++++	+++++	+++++	4257	+++++	4257	0.000
	(3)	+++++	+++++	+++++	5776	+++++	5776	0.000
	(4)	+++++	+++++	+++++	7175	+++++	7175	0.000
	(5)	+++++	+++++	+++++	6892	+++++	6892	0.000
	9 Aroclor-1268(1)	19129	17786	17158	16465	14077	16923	11.044
	(2)	18037	16539	15911	15524	13152	15833	11.228
	(3)	13598	12481	12014	11658	9950	11940	11.148
	(4)	6323	5687	5412	5231	4582	5447	11.686
	(5)	36900	34949	33689	32469	27624	33126	10.521
M	10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 4,4'-DDT	+++++	+++++	+++++	15109	+++++	15109	0.000
	14 4,4'-DDD	+++++	+++++	+++++	105424	+++++	105424	0.000
	15 4,4'-DDE	+++++	+++++	+++++	101308	+++++	101308	0.000
$	11 4cmx	143888	137730	130646	127780	114936	130996	8.362
$	12 Decachlorobiphenyl	100777	91181	89544	84910	75731	88429	10.348

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 11-JAN-2010 13:59
End Cal Date : 22-JAN-2010 07:45
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Cal Date : 03-Feb-2010 08:24 jen01212
Curve Type : Average

Calibration File Names:
Level 1: /chem/ecd8a.i/012210.b/003b0301.d
Level 2: /chem/ecd8a.i/012210.b/004b0401.d
Level 3: /chem/ecd8a.i/012210.b/005b0501.d
Level 4: /chem/ecd8a.i/011110a.b/030b3001.d
Level 5: /chem/ecd8a.i/012210.b/007b0701.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)	3343	3254	3228	3190	2989	3201	4.095
(2)	2489	2360	2269	2224	2042	2277	7.272
(3)	1397	1328	1287	1291	1238	1308	4.502
(4)	1431	1340	1271	1239	1151	1286	8.198
(5)	1936	1832	1770	1743	1621	1781	6.511
2 Aroclor-1221(1)	+++++	+++++	+++++	845	+++++	845	0.000
(2)	+++++	+++++	+++++	497	+++++	497	0.000
(3)	+++++	+++++	+++++	1754	+++++	1754	0.000
3 Aroclor-1232(1)	1633	1480	1410	1347	1173	1409	12.019
(2)	1587	1462	1439	1409	1315	1442	6.819
(3)	1208	1100	1054	1020	916	1060	10.088
(4)	671	619	594	581	538	601	8.169
(5)	601	537	509	486	430	513	12.277
4 Aroclor-1242(1)	2594	2446	2343	2220	1891	2299	11.575
(2)	2719	2619	2607	2545	2321	2562	5.798
(3)	1991	1907	1845	1772	1553	1814	9.171
(4)	1562	1496	1455	1401	1262	1435	7.884
(5)	1443	1420	1355	1311	1194	1344	7.381
5 Aroclor-1248(1)	1504	1452	1354	1333	1180	1365	9.137
(2)	2264	2189	2066	2024	1756	2060	9.470
(3)	2768	2701	2581	2572	2225	2569	8.164
(4)	3163	3131	3011	3011	2635	2990	7.032
(5)	3436	3437	3307	3307	2902	3278	6.709
6 Aroclor-1254(1)	3090	2969	2903	2826	2508	2859	7.649
(2)	3491	3306	3222	3140	2776	3187	8.279
(3)	4768	4581	4513	4427	3943	4447	6.925
(4)	3396	3258	3207	3166	2874	3180	6.042
(5)	2263	2129	2059	2016	1850	2064	7.335

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 11-JAN-2010 13:59
End Cal Date : 22-JAN-2010 07:45
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Cal Date : 03-Feb-2010 08:24 jen01212
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
	7 Aroclor-1260(1)	3799	3646	3539	3488	3199	3534	6.279
	(2)	4510	4334	4225	4198	3834	4220	5.885
	(3)	3473	3318	3232	3208	2976	3241	5.583
	(4)	3572	3432	3356	3349	3110	3364	4.989
	(5)	5579	5396	5332	5363	5008	5336	3.871
	8 Aroclor-1262(1)	+++++	+++++	+++++	2646	+++++	2646	0.000
	(2)	+++++	+++++	+++++	3071	+++++	3071	0.000
	(3)	+++++	+++++	+++++	4384	+++++	4384	0.000
	(4)	+++++	+++++	+++++	3992	+++++	3992	0.000
	(5)	+++++	+++++	+++++	5646	+++++	5646	0.000
	9 Aroclor-1268(1)	12629	12158	11921	11709	10194	11722	7.852
	(2)	11134	10709	10558	10464	9270	10427	6.673
	(3)	8595	8269	8154	8086	7188	8058	6.506
	(4)	3782	3641	3564	3549	3251	3558	5.470
	(5)	23838	23265	22979	22594	19795	22494	7.006
M	10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 4,4'-DDT	+++++	+++++	+++++	9076	+++++	9076	0.000
	14 4,4'-DDD	+++++	+++++	+++++	66761	+++++	66761	0.000
	15 4,4'-DDE	+++++	+++++	+++++	65679	+++++	65679	0.000
$	11 4cmx	82030	82634	82486	82685	78228	81612	2.339
$	12 Decachlorobiphenyl	62868	59530	58162	58128	53540	58445	5.737

Report Date: 04-Feb-2010 07:55

Calibration History

Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028f2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020f2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014f1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008f0801.d
03-FEB-2010 10:24	AR1660	/chem/ecd8a.i/020310a.b/002f0201.d
Cal Level: 2 , Cal Amount: 250.00000		
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029f2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021f2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015f1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009f0901.d
03-FEB-2010 10:37	AR1660	/chem/ecd8a.i/020310a.b/003f0301.d
Cal Level: 3 , Cal Amount: 500.00000		
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030f3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022f2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016f1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010f1001.d
03-FEB-2010 10:49	AR1660	/chem/ecd8a.i/020310a.b/004f0401.d
Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036f3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034f3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031f3101.d
03-FEB-2010 15:34	AR1221	/chem/ecd8a.i/020310a.b/027f2701.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026f2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023f2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017f1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011f1101.d
03-FEB-2010 11:01	AR1660	/chem/ecd8a.i/020310a.b/005f0501.d
Cal Level: 5 , Cal Amount: 4000.00000		
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032f3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024f2401.d
03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018f1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012f1201.d
03-FEB-2010 11:14	AR1660	/chem/ecd8a.i/020310a.b/006f0601.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 23:49	AR1660	/chem/ecd8a.i/020310a.b/067f6701.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 22:10	AR1660	/chem/ecd8a.i/020310a.b/059f5901.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 21:08	AR1660	/chem/ecd8a.i/020310a.b/054f5401.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 19:54	AR1660	/chem/ecd8a.i/020310a.b/048f4801.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034f3401.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 15:34	AR1221	/chem/ecd8a.i/020310a.b/027f2701.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026f2601.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036f3601.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 17:13	AR1248	/chem/ecd8a.i/020310a.b/035f3501.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 16:48	AR1262	/chem/ecd8a.i/020310a.b/033f3301.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031f3101.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 15:09	AR1248	/chem/ecd8a.i/020310a.b/025f2501.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023f2301.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 13:55	AR1242	/chem/ecd8a.i/020310a.b/019f1901.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017f1701.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 12:40	AR1254	/chem/ecd8a.i/020310a.b/013f1301.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011f1101.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 11:26	AR1660	/chem/ecd8a.i/020310a.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
03-FEB-2010 11:01	AR1660	/chem/ecd8a.i/020310a.b/005f0501.d

Report Date: 04-Feb-2010 07:55

Calibration History

Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028b2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020b2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014b1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008b0801.d
03-FEB-2010 10:24	AR1660	/chem/ecd8a.i/020310a.b/002b0201.d
Cal Level: 2 , Cal Amount: 250.00000		
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029b2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021b2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015b1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009b0901.d
03-FEB-2010 10:37	AR1660	/chem/ecd8a.i/020310a.b/003b0301.d
Cal Level: 3 , Cal Amount: 500.00000		
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030b3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022b2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016b1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010b1001.d
03-FEB-2010 10:49	AR1660	/chem/ecd8a.i/020310a.b/004b0401.d
Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036b3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034b3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031b3101.d
03-FEB-2010 15:34	AR1221	/chem/ecd8a.i/020310a.b/027b2701.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026b2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023b2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017b1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011b1101.d
03-FEB-2010 11:01	AR1660	/chem/ecd8a.i/020310a.b/005b0501.d
Cal Level: 5 , Cal Amount: 4000.00000		
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032b3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024b2401.d
03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018b1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012b1201.d
03-FEB-2010 11:14	AR1660	/chem/ecd8a.i/020310a.b/006b0601.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 23:49 | AR1660 | /chem/ecd8a.i/020310a.b/067b6701.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 22:10 | AR1660 | /chem/ecd8a.i/020310a.b/059b5901.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 21:08 | AR1660 | /chem/ecd8a.i/020310a.b/054b5401.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 19:54 | AR1660 | /chem/ecd8a.i/020310a.b/048b4801.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 17:00 | AR1268 | /chem/ecd8a.i/020310a.b/034b3401.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 15:34 | AR1221 | /chem/ecd8a.i/020310a.b/027b2701.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 15:21 | AR1232 | /chem/ecd8a.i/020310a.b/026b2601.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 17:25 | DDT | /chem/ecd8a.i/020310a.b/036b3601.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 17:13 | AR1248 | /chem/ecd8a.i/020310a.b/035b3501.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 16:48 | AR1262 | /chem/ecd8a.i/020310a.b/033b3301.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 16:23 | AR1262 | /chem/ecd8a.i/020310a.b/031b3101.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 15:09 | AR1248 | /chem/ecd8a.i/020310a.b/025b2501.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 14:44 | AR1248 | /chem/ecd8a.i/020310a.b/023b2301.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 13:55 | AR1242 | /chem/ecd8a.i/020310a.b/019b1901.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 13:30 | AR1242 | /chem/ecd8a.i/020310a.b/017b1701.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 12:40 | AR1254 | /chem/ecd8a.i/020310a.b/013b1301.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 12:16 | AR1254 | /chem/ecd8a.i/020310a.b/011b1101.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 11:26 | AR1660 | /chem/ecd8a.i/020310a.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000
03-FEB-2010 11:01 | AR1660 | /chem/ecd8a.i/020310a.b/005b0501.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Quant Method : ESTD Target Version : 3.50
Last Update : 04-Feb-2010 07:01 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	758.000000
Initial:End Threshold	379.000000
Initial:Area Threshold	734.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	1.500000
6.500:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.814	2.784-2.844	4.665e+03
	3.166	3.136-3.196	5.770e+03
	3.309	3.279-3.339	2.454e+03
	3.402	3.372-3.432	2.198e+03
	3.564	3.534-3.594	3.142e+03
2 Aroclor-1221	1.857	1.827-1.887	1.100e+03
	2.397	2.367-2.427	1.460e+03
	2.542	2.512-2.572	3.385e+03
3 Aroclor-1232	2.542	2.512-2.572	2.601e+03
	2.813	2.783-2.843	2.261e+03
	3.309	3.279-3.339	1.243e+03
	3.564	3.534-3.594	1.479e+03
	3.625	3.595-3.655	9.227e+02
4 Aroclor-1242	2.814	2.784-2.844	3.974e+03
	3.165	3.135-3.195	4.796e+03
	3.402	3.372-3.432	1.805e+03
	3.418	3.388-3.448	1.889e+03
	3.563	3.533-3.593	2.645e+03
5 Aroclor-1248	3.151	3.121-3.181	2.990e+03
	3.401	3.371-3.431	3.823e+03
	3.564	3.534-3.594	5.000e+03
	3.870	3.840-3.900	5.990e+03
	4.029	3.999-4.059	4.826e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m

	Compound	RT	RT Window	RF
	6 Aroclor-1254	3.839	3.809-3.869	4.785e+03
		4.026	3.996-4.056	6.569e+03
		4.222	4.192-4.252	5.138e+03
		4.309	4.279-4.339	8.797e+03
		4.504	4.474-4.534	6.914e+03
	7 Aroclor-1260	4.438	4.408-4.468	6.739e+03
		4.634	4.604-4.664	1.026e+04
		4.908	4.878-4.938	6.130e+03
		5.081	5.051-5.111	6.386e+03
		5.493	5.463-5.523	6.860e+03
	8 Aroclor-1262	4.340	4.310-4.370	3.367e+03
		4.437	4.407-4.467	5.243e+03
		4.633	4.603-4.663	7.103e+03
		4.910	4.880-4.940	8.580e+03
		5.081	5.051-5.111	7.966e+03
	9 Aroclor-1268	5.517	5.487-5.547	1.632e+04
		5.542	5.512-5.572	1.572e+04
		5.677	5.647-5.707	1.207e+04
		5.922	5.892-5.952	6.023e+03
		6.118	6.088-6.148	3.601e+04
M	10 Aroclor-Total	1.000	0.980-1.020	
$	11 4cmx	2.257	2.227-2.287	1.314e+05
$	12 Decachlorobiphenyl	6.248	6.218-6.278	9.998e+04
	13 4,4'-DDT	4.852	4.832-4.872	2.393e+04
	14 4,4'-DDD	4.658	4.638-4.678	1.570e+05
	15 4,4'-DDE	4.234	4.214-4.254	1.340e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Quant Method : ESTD Target Version : 3.50
Last Update : 04-Feb-2010 06:58 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	733.000000
Initial:End Threshold	366.500000
Initial:Area Threshold	522.000000
Initial:P-P Resolution	0.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	2.000000
9.000:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.563	3.533-3.593	3.766e+03
	3.663	3.633-3.693	2.494e+03
	3.738	3.708-3.768	1.515e+03
	3.813	3.783-3.843	1.493e+03
	4.010	3.980-4.040	2.036e+03
2 Aroclor-1221	2.730	2.700-2.760	8.949e+02
	2.842	2.812-2.872	5.569e+02
	2.891	2.861-2.921	2.060e+03
3 Aroclor-1232	3.209	3.179-3.239	1.515e+03
	3.562	3.532-3.592	1.744e+03
	3.661	3.631-3.691	1.176e+03
	3.738	3.708-3.768	7.101e+02
	3.812	3.782-3.842	6.182e+02
4 Aroclor-1242	3.209	3.179-3.239	2.677e+03
	3.563	3.533-3.593	3.126e+03
	3.662	3.632-3.692	2.127e+03
	4.009	3.979-4.039	1.703e+03
	4.098	4.068-4.128	1.567e+03
5 Aroclor-1248	3.661	3.631-3.691	1.427e+03
	3.813	3.783-3.843	2.467e+03
	4.010	3.980-4.040	3.089e+03
	4.287	4.257-4.317	3.647e+03
	4.320	4.290-4.350	4.004e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m

	Compound	RT	RT Window	RF
	6 Aroclor-1254	4.316	4.286-4.346	3.450e+03
		4.455	4.425-4.485	3.910e+03
		4.784	4.754-4.814	5.500e+03
		4.946	4.916-4.976	4.011e+03
		5.072	5.042-5.102	2.549e+03
	7 Aroclor-1260	4.923	4.893-4.953	4.084e+03
		5.073	5.043-5.103	4.969e+03
		5.388	5.358-5.418	3.788e+03
		5.596	5.566-5.626	3.953e+03
		6.027	5.997-6.057	6.227e+03
	8 Aroclor-1262	4.924	4.894-4.954	3.276e+03
		5.071	5.041-5.101	3.827e+03
		5.388	5.358-5.418	5.446e+03
		5.596	5.566-5.626	5.047e+03
		6.025	5.995-6.055	7.196e+03
	9 Aroclor-1268	6.022	5.992-6.052	1.138e+04
		6.054	6.024-6.084	1.041e+04
		6.232	6.202-6.262	8.192e+03
		6.430	6.400-6.460	4.057e+03
		6.658	6.628-6.688	2.464e+04
M	10 Aroclor-Total	1.000	0.980-1.020	
$	11 4cmx	2.490	2.460-2.520	8.684e+04
$	12 Decachlorobiphenyl	6.840	6.810-6.870	6.484e+04
	13 4,4'-DDT	5.323	5.303-5.343	1.460e+04
	14 4,4'-DDD	5.102	5.082-5.122	1.001e+05
	15 4,4'-DDE	4.691	4.671-4.711	8.898e+04

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Cal Date : 04-Feb-2010 07:01 jen01212
Curve Type : Average

Calibration File Names:
Level 1: /chem/ecd8a.i/020310a.b/028f2801.d
Level 2: /chem/ecd8a.i/020310a.b/029f2901.d
Level 3: /chem/ecd8a.i/020310a.b/030f3001.d
Level 4: /chem/ecd8a.i/020310a.b/036f3601.d
Level 5: /chem/ecd8a.i/020310a.b/032f3201.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)	5614	5138	4704	4321	3545	4665	16.943
(2)	6383	6264	5935	5475	4791	5770	11.275
(3)	2817	2639	2454	2319	2042	2454	12.124
(4)	2629	2406	2216	2019	1720	2198	15.914
(5)	3708	3411	3117	2938	2537	3142	14.248
2 Aroclor-1221(1)	+++++	+++++	+++++	1100	+++++	1100	0.000
(2)	+++++	+++++	+++++	1460	+++++	1460	0.000
(3)	+++++	+++++	+++++	3385	+++++	3385	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	2601	+++++	2601	0.000
(2)	+++++	+++++	+++++	2261	+++++	2261	0.000
(3)	+++++	+++++	+++++	1243	+++++	1243	0.000
(4)	+++++	+++++	+++++	1479	+++++	1479	0.000
(5)	+++++	+++++	+++++	923	+++++	923	0.000
4 Aroclor-1242(1)	4726	4372	4070	3706	2998	3974	16.680
(2)	5172	5152	4949	4680	4027	4796	9.873
(3)	2139	1968	1820	1683	1417	1805	15.251
(4)	2229	2050	1908	1759	1500	1889	14.735
(5)	3065	2855	2678	2500	2127	2645	13.507
5 Aroclor-1248(1)	3599	3150	2999	2805	2397	2990	14.793
(2)	4688	4030	3804	3549	3043	3823	15.884
(3)	6028	5281	4903	4737	4053	5000	14.533
(4)	7068	6330	5909	5676	4965	5990	13.024
(5)	5743	5075	4737	4591	3986	4826	13.394
6 Aroclor-1254(1)	5857	5096	4715	4450	3806	4785	15.921
(2)	7961	7038	6468	6172	5208	6569	15.558
(3)	6032	5571	5105	4741	4242	5138	13.582
(4)	10107	9649	8877	8173	7180	8797	13.271
(5)	7953	7619	6996	6322	5678	6914	13.452

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Cal Date : 04-Feb-2010 07:01 jen01212
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
	7 Aroclor-1260 (1)	7706	7225	6868	6425	5470	6739	12.628
	(2)	11735	10983	10481	9771	8329	10260	12.630
	(3)	7075	6577	6171	5792	5035	6130	12.657
	(4)	7317	6857	6397	6058	5301	6386	12.066
	(5)	7655	7335	6855	6540	5914	6860	9.924
	8 Aroclor-1262 (1)	3851	3558	3311	3256	2859	3367	10.954
	(2)	5935	5551	5239	5102	4386	5243	10.995
	(3)	7996	7523	7022	6963	6012	7103	10.414
	(4)	9555	9028	8567	8433	7318	8580	9.694
	(5)	8875	8357	7946	7802	6850	7966	9.421
	9 Aroclor-1268 (1)	+++++	+++++	+++++	16324	+++++	16324	0.000
	(2)	+++++	+++++	+++++	15723	+++++	15723	0.000
	(3)	+++++	+++++	+++++	12075	+++++	12075	0.000
	(4)	+++++	+++++	+++++	6023	+++++	6023	0.000
	(5)	+++++	+++++	+++++	36012	+++++	36012	0.000
M	10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 4,4'-DDT	+++++	+++++	+++++	23929	+++++	23929	0.000
	14 4,4'-DDD	+++++	+++++	+++++	157020	+++++	157020	0.000
	15 4,4'-DDE	+++++	+++++	+++++	133975	+++++	133975	0.000
$	11 4cmx	141196	137660	133177	129355	115643	131406	7.521
$	12 Decachlorobiphenyl	111693	106508	99006	96244	86457	99981	9.718

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Cal Date : 04-Feb-2010 06:58 jen01212
Curve Type : Average

Calibration File Names:
Level 1: /chem/ecd8a.i/020310a.b/028b2801.d
Level 2: /chem/ecd8a.i/020310a.b/029b2901.d
Level 3: /chem/ecd8a.i/020310a.b/030b3001.d
Level 4: /chem/ecd8a.i/020310a.b/036b3601.d
Level 5: /chem/ecd8a.i/020310a.b/032b3201.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)	3955	3879	3768	3829	3401	3766	5.726
(2)	2683	2623	2522	2463	2181	2494	7.814
(3)	1588	1565	1522	1510	1392	1515	5.000
(4)	1644	1573	1498	1453	1297	1493	8.812
(5)	2161	2107	2068	2025	1817	2036	6.473
2 Aroclor-1221(1)	+++++	+++++	+++++	895	+++++	895	0.000
(2)	+++++	+++++	+++++	557	+++++	557	0.000
(3)	+++++	+++++	+++++	2060	+++++	2060	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	1515	+++++	1515	0.000
(2)	+++++	+++++	+++++	1744	+++++	1744	0.000
(3)	+++++	+++++	+++++	1176	+++++	1176	0.000
(4)	+++++	+++++	+++++	710	+++++	710	0.000
(5)	+++++	+++++	+++++	618	+++++	618	0.000
4 Aroclor-1242(1)	2949	2857	2758	2609	2213	2677	10.779
(2)	3213	3196	3180	3232	2808	3126	5.721
(3)	2287	2232	2178	2099	1842	2127	8.178
(4)	1820	1782	1741	1678	1497	1703	7.463
(5)	1675	1595	1607	1522	1434	1567	5.872
5 Aroclor-1248(1)	1621	1511	1422	1366	1213	1427	10.773
(2)	2779	2594	2491	2383	2090	2467	10.392
(3)	3403	3233	3131	3022	2657	3089	9.043
(4)	3964	3788	3692	3588	3204	3647	7.785
(5)	4333	4155	4060	3948	3526	4004	7.553
6 Aroclor-1254(1)	3700	3695	3475	3389	2993	3450	8.395
(2)	4204	4194	3940	3836	3377	3910	8.648
(3)	5766	5885	5570	5452	4827	5500	7.494
(4)	4254	4252	4044	3942	3562	4011	7.104
(5)	2775	2711	2546	2462	2250	2549	8.187

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Cal Date : 04-Feb-2010 06:58 jen01212
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
	7 Aroclor-1260 (1)	4328	4278	4140	4064	3611	4084	6.976
	(2)	5221	5198	5036	4963	4428	4969	6.467
	(3)	3970	3947	3809	3790	3427	3788	5.744
	(4)	4121	4108	3975	3957	3605	3953	5.268
	(5)	6395	6455	6249	6250	5789	6227	4.190
	8 Aroclor-1262 (1)	3545	3367	3269	3249	2948	3276	6.635
	(2)	4038	3929	3844	3825	3498	3827	5.277
	(3)	5683	5613	5515	5463	4958	5446	5.255
	(4)	5266	5178	5090	5067	4633	5047	4.838
	(5)	7327	7356	7286	7270	6740	7196	3.572
	9 Aroclor-1268 (1)	+++++	+++++	+++++	11384	+++++	11384	0.000
	(2)	+++++	+++++	+++++	10412	+++++	10412	0.000
	(3)	+++++	+++++	+++++	8192	+++++	8192	0.000
	(4)	+++++	+++++	+++++	4057	+++++	4057	0.000
	(5)	+++++	+++++	+++++	24640	+++++	24640	0.000
M	10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 4,4'-DDT	+++++	+++++	+++++	14596	+++++	14596	0.000
	14 4,4'-DDD	+++++	+++++	+++++	100145	+++++	100145	0.000
	15 4,4'-DDE	+++++	+++++	+++++	88982	+++++	88982	0.000
$	11 4cmx	86244	88409	88291	88885	82388	86843	3.097
$	12 Decachlorobiphenyl	68541	67257	64616	64263	59541	64844	5.342

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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 1255

Lab File ID: 006F0601 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D	
Aroclor-1016	4572.785	3820.951	0.01	-16.4	15.0	<-
(2)	5280.406	4586.304	0.01	-13.1	15.0	
(3)	2359.115	1971.860	0.01	-16.4	15.0	<-
(4)	2088.071	1775.538	0.01	-15.0	15.0	
(5)	2933.246	2566.060	0.01	-12.5	15.0	
Aroclor-1260	5757.649	5383.152	0.01	-6.5	15.0	
(2)	8705.293	8170.895	0.01	-6.1	15.0	
(3)	5333.977	4816.452	0.01	-9.7	15.0	
(4)	5551.052	5065.050	0.01	-8.8	15.0	
(5)	5895.963	5446.295	0.01	-7.6	15.0	
4cmx	130996.17	116394.69	0.01	-11.1	15.0	
Decachlorobiphenyl	88428.633	82695.490	0.01	-6.5	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 1255

Lab File ID: 006B0601 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3201.010	3036.982	0.01	-5.1	15.0
(2)	2276.677	2093.859	0.01	-8.0	15.0
(3)	1308.219	1241.427	0.01	-5.1	15.0
(4)	1286.400	1199.102	0.01	-6.8	15.0
(5)	1780.524	1681.818	0.01	-5.5	15.0
Aroclor-1260	3534.278	3445.569	0.01	-2.5	15.0
(2)	4220.272	4147.304	0.01	-1.7	15.0
(3)	3241.372	3178.471	0.01	-1.9	15.0
(4)	3363.772	3301.898	0.01	-1.8	15.0
(5)	5335.520	5203.793	0.01	-2.5	15.0
4cmx	81612.458	77919.880	0.01	-4.5	15.0
Decachlorobiphenyl	58445.490	54701.350	0.01	-6.4	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 1754

Lab File ID: 030F3001 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4572.785	4155.409	0.01	-9.1	15.0
(2)	5280.406	4998.354	0.01	-5.3	15.0
(3)	2359.115	2116.429	0.01	-10.3	15.0
(4)	2088.071	1902.938	0.01	-8.9	15.0
(5)	2933.246	2738.580	0.01	-6.6	15.0
Aroclor-1260	5757.649	5770.875	0.01	0.2	15.0
(2)	8705.293	8797.881	0.01	1.1	15.0
(3)	5333.977	5145.542	0.01	-3.5	15.0
(4)	5551.052	5414.646	0.01	-2.4	15.0
(5)	5895.963	5884.491	0.01	-0.2	15.0
4cmx	130996.17	128397.46	0.01	-2.0	15.0
Decachlorobiphenyl	88428.633	88487.430	0.01	0.1	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 1754

Lab File ID: 030B3001 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3201.010	3269.473	0.01	2.1	15.0
(2)	2276.677	2269.968	0.01	-0.3	15.0
(3)	1308.219	1330.464	0.01	1.7	15.0
(4)	1286.400	1285.017	0.01	-0.1	15.0
(5)	1780.524	1801.185	0.01	1.2	15.0
Aroclor-1260	3534.278	3681.805	0.01	4.2	15.0
(2)	4220.272	4428.757	0.01	4.9	15.0
(3)	3241.372	3390.846	0.01	4.6	15.0
(4)	3363.772	3507.932	0.01	4.3	15.0
(5)	5335.520	5628.928	0.01	5.5	15.0
4cmx	81612.458	86555.350	0.01	6.0	15.0
Decachlorobiphenyl	58445.490	59798.580	0.01	2.3	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 2026

Lab File ID: 042F4201 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D	
Aroclor-1016	4572.785	4553.970	0.01	-0.4	15.0	
(2)	5280.406	5931.842	0.01	12.3	15.0	
(3)	2359.115	2487.932	0.01	5.5	15.0	
(4)	2088.071	2168.502	0.01	3.8	15.0	
(5)	2933.246	3155.557	0.01	7.6	15.0	
Aroclor-1260	5757.649	6933.068	0.01	20.4	15.0	<-
(2)	8705.293	10522.037	0.01	20.9	15.0	<-
(3)	5333.977	6214.536	0.01	16.5	15.0	<-
(4)	5551.052	6490.995	0.01	16.9	15.0	<-
(5)	5895.963	7088.233	0.01	20.2	15.0	<-
4cmx	130996.17	138490.45	0.01	5.7	15.0	
Decachlorobiphenyl	88428.633	97698.810	0.01	10.5	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 2026

Lab File ID: 042B4201 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D	
Aroclor-1016	3201.010	4029.385	0.01	25.9	15.0	<-
(2)	2276.677	2579.792	0.01	13.3	15.0	
(3)	1308.219	1594.091	0.01	21.8	15.0	<-
(4)	1286.400	1524.746	0.01	18.5	15.0	<-
(5)	1780.524	2126.997	0.01	19.4	15.0	<-
Aroclor-1260	3534.278	4266.787	0.01	20.7	15.0	<-
(2)	4220.272	5238.641	0.01	24.1	15.0	<-
(3)	3241.372	3962.443	0.01	22.2	15.0	<-
(4)	3363.772	4141.861	0.01	23.1	15.0	<-
(5)	5335.520	6478.502	0.01	21.4	15.0	<-
4cmx	81612.458	94337.020	0.01	15.6	15.0	<-
Decachlorobiphenyl	58445.490	65219.050	0.01	11.6	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 2234

Lab File ID: 052F5201 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D	
Aroclor-1016	4572.785	4518.954	0.01	-1.2	15.0	
(2)	5280.406	5910.755	0.01	11.9	15.0	
(3)	2359.115	2474.369	0.01	4.9	15.0	
(4)	2088.071	2151.360	0.01	3.0	15.0	
(5)	2933.246	3136.493	0.01	6.9	15.0	
Aroclor-1260	5757.649	6995.043	0.01	21.5	15.0	<-
(2)	8705.293	10447.560	0.01	20.0	15.0	<-
(3)	5333.977	6175.380	0.01	15.8	15.0	<-
(4)	5551.052	6456.231	0.01	16.3	15.0	<-
(5)	5895.963	7121.994	0.01	20.8	15.0	<-
4cmx	130996.17	137657.58	0.01	5.1	15.0	
Decachlorobiphenyl	88428.633	99241.560	0.01	12.2	15.0	

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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/02/10 Time: 2234

Lab File ID: 052B5201 Init. Calib. Date(s): 01/21/10 01/21/10

Heated Purge: (Y/N) N Init. Calib. Times: 0943 1033

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D	
Aroclor-1016	3201.010	4123.240	0.01	28.8	15.0	<-
(2)	2276.677	2618.960	0.01	15.0	15.0	<-
(3)	1308.219	1624.063	0.01	24.1	15.0	<-
(4)	1286.400	1548.464	0.01	20.4	15.0	<-
(5)	1780.524	2167.158	0.01	21.7	15.0	<-
Aroclor-1260	3534.278	4407.862	0.01	24.7	15.0	<-
(2)	4220.272	5402.505	0.01	28.0	15.0	<-
(3)	3241.372	4072.041	0.01	25.6	15.0	<-
(4)	3363.772	4234.763	0.01	25.9	15.0	<-
(5)	5335.520	6670.063	0.01	25.0	15.0	<-
4cmx	81612.458	95253.850	0.01	16.7	15.0	<-
Decachlorobiphenyl	58445.490	65770.820	0.01	12.5	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 1126

Lab File ID: 007F0701 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4277.770	0.01	-8.3	15.0
(2)	5769.588	5635.008	0.01	-2.3	15.0
(3)	2454.201	2314.378	0.01	-5.7	15.0
(4)	2198.179	2048.621	0.01	-6.8	15.0
(5)	3142.156	2954.258	0.01	-6.0	15.0
Aroclor-1260	6738.969	6940.360	0.01	3.0	15.0
(2)	10259.796	10464.391	0.01	2.0	15.0
(3)	6129.851	6152.446	0.01	0.4	15.0
(4)	6385.867	6446.332	0.01	0.9	15.0
(5)	6859.759	7013.767	0.01	2.2	15.0
4cmx	131406.10	128237.58	0.01	-2.4	15.0
Decachlorobiphenyl	99981.358	96061.630	0.01	-3.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 1126

Lab File ID: 007B0701 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3759.740	0.01	-0.2	15.0
(2)	2494.427	2456.818	0.01	-1.5	15.0
(3)	1515.492	1505.984	0.01	-0.6	15.0
(4)	1493.163	1449.782	0.01	-2.9	15.0
(5)	2035.618	2022.528	0.01	-0.6	15.0
Aroclor-1260	4084.417	4368.854	0.01	7.0	15.0
(2)	4968.902	5338.100	0.01	7.4	15.0
(3)	3788.418	4079.050	0.01	7.7	15.0
(4)	3953.106	4256.949	0.01	7.7	15.0
(5)	6227.437	6753.611	0.01	8.4	15.0
4cmx	86843.352	88063.630	0.01	1.4	15.0
Decachlorobiphenyl	64843.758	64350.620	0.01	-0.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 1240

Lab File ID: 013F1301 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1139 1228

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	4784.971	4412.624	0.01	-7.8	15.0
(2)	6569.400	6002.955	0.01	-8.6	15.0
(3)	5138.123	4732.103	0.01	-7.9	15.0
(4)	8797.294	8215.771	0.01	-6.6	15.0
(5)	6913.634	6418.148	0.01	-7.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 1240

Lab File ID: 013B1301 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1139 1228

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	3450.063	3383.977	0.01	-1.9	15.0
(2)	3910.106	3824.713	0.01	-2.2	15.0
(3)	5499.957	5432.437	0.01	-1.2	15.0
(4)	4010.730	3945.818	0.01	-1.6	15.0
(5)	2548.871	2466.733	0.01	-3.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 2108

Lab File ID: 054F5401 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4430.815	0.01	-5.0	15.0
(2)	5769.588	5538.731	0.01	-4.0	15.0
(3)	2454.201	2274.819	0.01	-7.3	15.0
(4)	2198.179	1973.855	0.01	-10.2	15.0
(5)	3142.156	2868.131	0.01	-8.7	15.0
Aroclor-1260	6738.969	6358.628	0.01	-5.6	15.0
(2)	10259.796	9555.820	0.01	-6.9	15.0
(3)	6129.851	5614.137	0.01	-8.4	15.0
(4)	6385.867	5990.813	0.01	-6.2	15.0
(5)	6859.759	6779.117	0.01	-1.2	15.0
4cmx	131406.10	134833.64	0.01	2.6	15.0
Decachlorobiphenyl	99981.358	98513.540	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 2108

Lab File ID: 054B5401 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3977.789	0.01	5.6	15.0
(2)	2494.427	2548.790	0.01	2.2	15.0
(3)	1515.492	1551.142	0.01	2.4	15.0
(4)	1493.163	1491.736	0.01	-0.1	15.0
(5)	2035.618	2077.623	0.01	2.1	15.0
Aroclor-1260	4084.417	4494.588	0.01	10.0	15.0
(2)	4968.902	5425.430	0.01	9.2	15.0
(3)	3788.418	4143.600	0.01	9.4	15.0
(4)	3953.106	4240.391	0.01	7.3	15.0
(5)	6227.437	6861.458	0.01	10.2	15.0
4cmx	86843.352	91994.630	0.01	5.9	15.0
Decachlorobiphenyl	64843.758	65923.130	0.01	1.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 2210

Lab File ID: 059F5901 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4437.937	0.01	-4.8	15.0
(2)	5769.588	5723.246	0.01	-0.8	15.0
(3)	2454.201	2401.635	0.01	-2.1	15.0
(4)	2198.179	2086.847	0.01	-5.1	15.0
(5)	3142.156	3035.369	0.01	-3.4	15.0
Aroclor-1260	6738.969	6481.792	0.01	-3.8	15.0
(2)	10259.796	9824.814	0.01	-4.2	15.0
(3)	6129.851	5815.369	0.01	-5.1	15.0
(4)	6385.867	6083.821	0.01	-4.7	15.0
(5)	6859.759	6826.367	0.01	-0.5	15.0
4cmx	131406.10	134664.78	0.01	2.5	15.0
Decachlorobiphenyl	99981.358	95475.810	0.01	-4.5	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.: 10-1432

Instrument ID: ECD8A Calibration Date: 02/03/10 Time: 2210

Lab File ID: 059B5901 Init. Calib. Date(s): 02/03/10 02/03/10

Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3983.951	0.01	5.8	15.0
(2)	2494.427	2580.314	0.01	3.4	15.0
(3)	1515.492	1595.964	0.01	5.3	15.0
(4)	1493.163	1528.981	0.01	2.4	15.0
(5)	2035.618	2125.198	0.01	4.4	15.0
Aroclor-1260	4084.417	4540.152	0.01	11.2	15.0
(2)	4968.902	5546.195	0.01	11.6	15.0
(3)	3788.418	4197.430	0.01	10.8	15.0
(4)	3953.106	4385.016	0.01	10.9	15.0
(5)	6227.437	6935.867	0.01	11.4	15.0
4cmx	86843.352	93740.120	0.01	7.9	15.0
Decachlorobiphenyl	64843.758	65661.400	0.01	1.3	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/003f0301.d
Lab Smp Id: WAR100201-54 Client Smp ID: AR125401
Inj Date : 02-FEB-2010 12:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100201-54
Misc Info : |1254
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 02-Feb-2010 14:22 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
6 Aroclor-1254						CAS #: 11097-69-1		
3.840	3.840	0.000	3603929	1000.00	862	80.00- 120.00		100.00
4.027	4.027	0.000	4965420	1000.00	893	117.78- 157.78		137.78
4.222	4.222	0.000	3815137	1000.00	900	85.86- 125.86		105.86
4.309	4.309	0.000	6659487	1000.00	917	164.78- 204.78		184.78
4.505	4.505	0.000	5318321	1000.00	927	127.57- 167.57		147.57
		Average of Peak Amounts =			900			

Data File: /chem/ecd8a.i/020210.b/003f0301.d

Page 1

Date : 02-FEB-2010 12:18

Client ID: AR125401

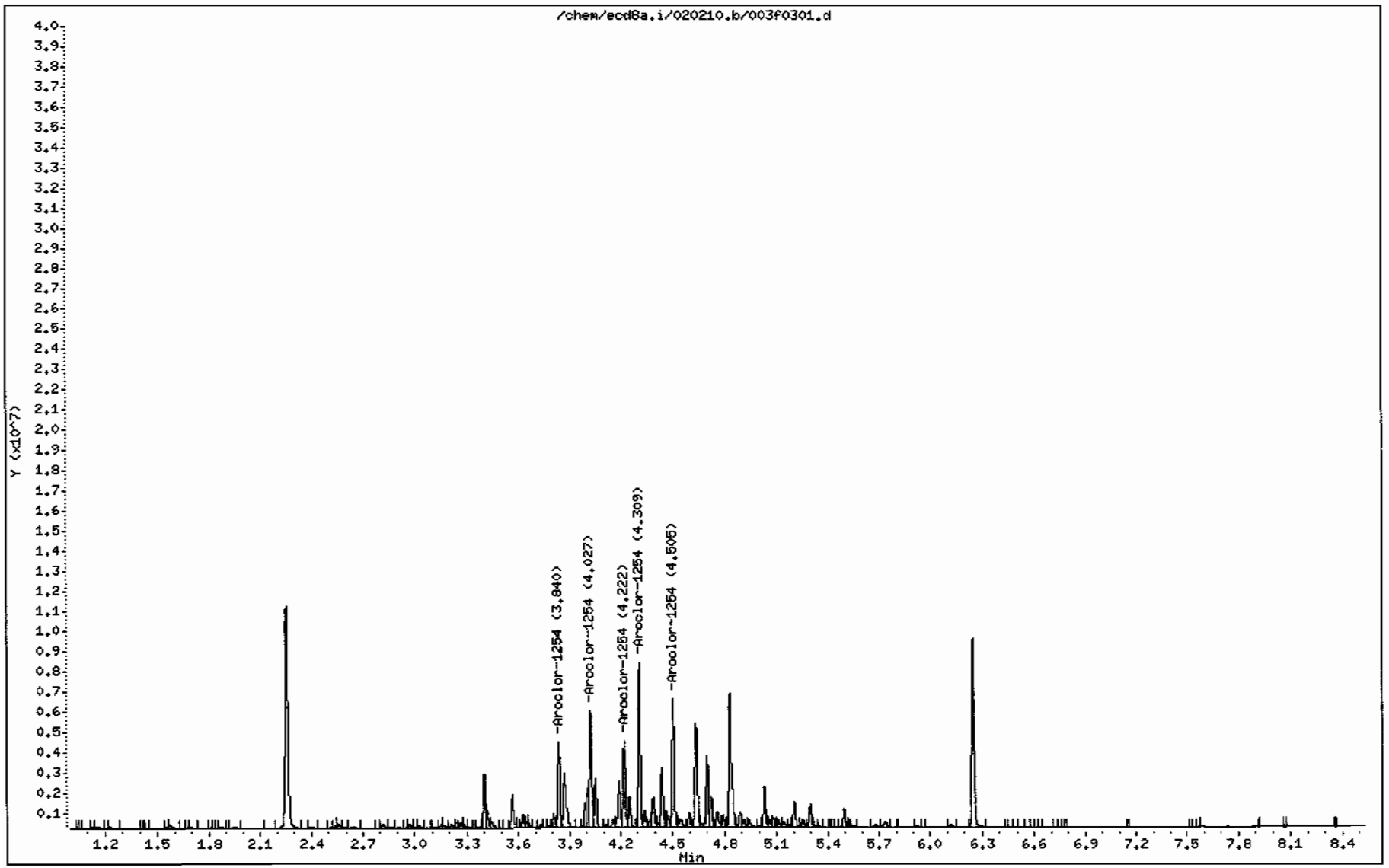
Instrument: ecd8a.i

Sample Info: IWAR100201-54

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/003b0301.d
Lab Smp Id: WAR100201-54 Client Smp ID: AR125401
Inj Date : 02-FEB-2010 12:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100201-54
Misc Info : |1254
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 02-Feb-2010 14:23 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
6 Aroclor-1254						CAS #: 11097-69-1		
4.317	4.317	0.000	2689120	1000.00	940	80.00-	120.00	100.00
4.456	4.456	0.000	3027862	1000.00	950	92.60-	132.60	112.60
4.785	4.785	0.000	4299282	1000.00	967	139.88-	179.88	159.88
4.947	4.947	0.000	3105824	1000.00	976	95.50-	135.50	115.50
5.072	5.072	0.000	1969331	1000.00	954	53.23-	93.23	73.23
		Average of Peak Amounts =			958			

Data File: /chem/ecd8a.i/020210.b/003b0301.d

Date : 02-FEB-2010 12:18

Client ID: AR125401

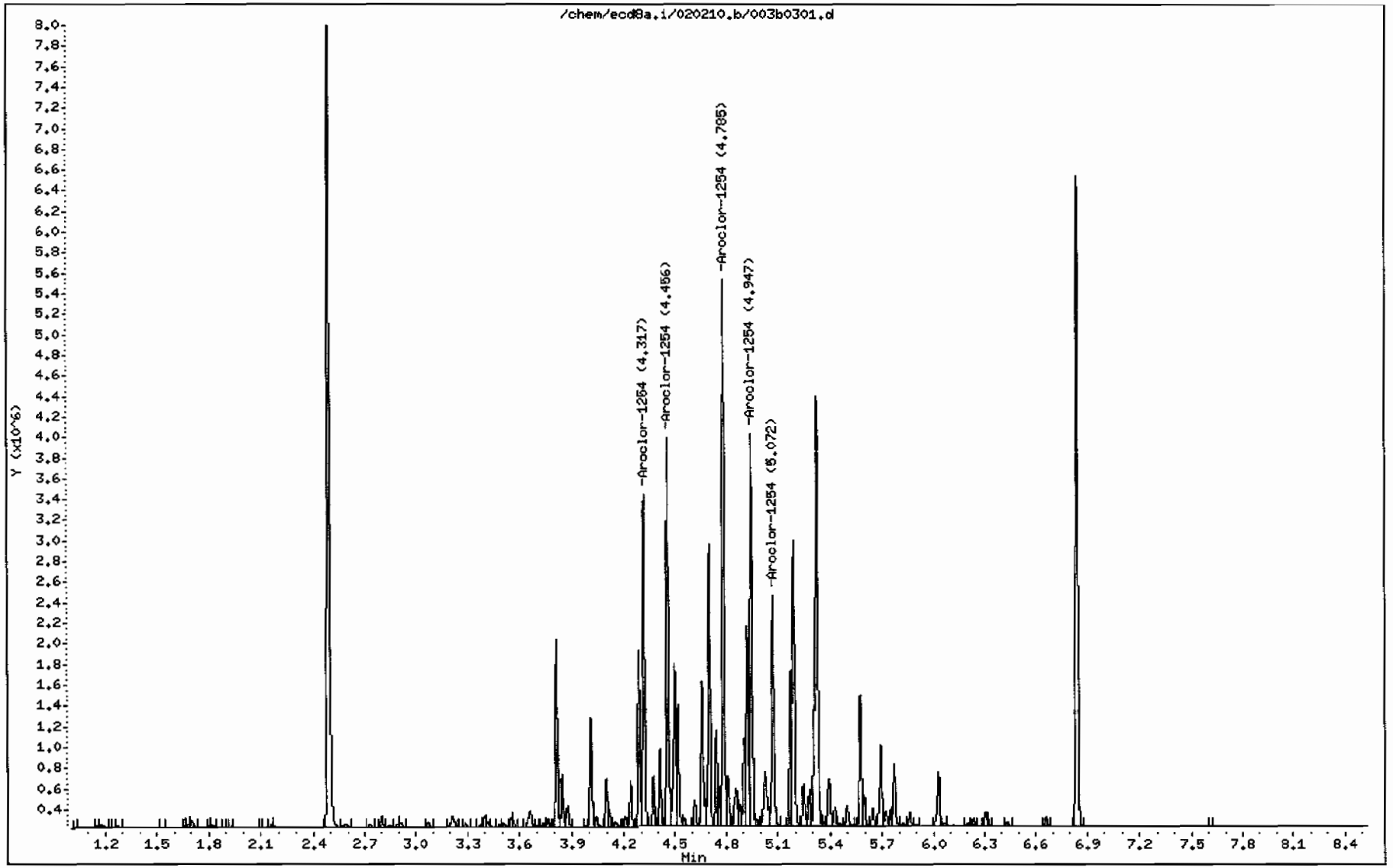
Sample Info: IWAR100201-54

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/004f0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 02-FEB-2010 12:30
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-42
Misc Info : |1242
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 02-Feb-2010 14:22 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.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		
2.814	2.814	0.000	3201578	1000.00	874	80.00-	120.00	100.00
3.166	3.166	0.000	3867075	1000.00	908	100.79-	140.79	120.79
3.402	3.402	0.000	1458767	1000.00	868	25.56-	65.56	45.56
3.419	3.419	0.000	1476906	1000.00	862	26.13-	66.13	46.13
3.564	3.564	0.000	2139899	1000.00	888	46.84-	86.84	66.84
		Average of Peak Amounts =			880			

Data File: /chem/ecd8a.i/020210.b/004f0401.d

Date : 02-FEB-2010 12:30

Client ID: AR124201

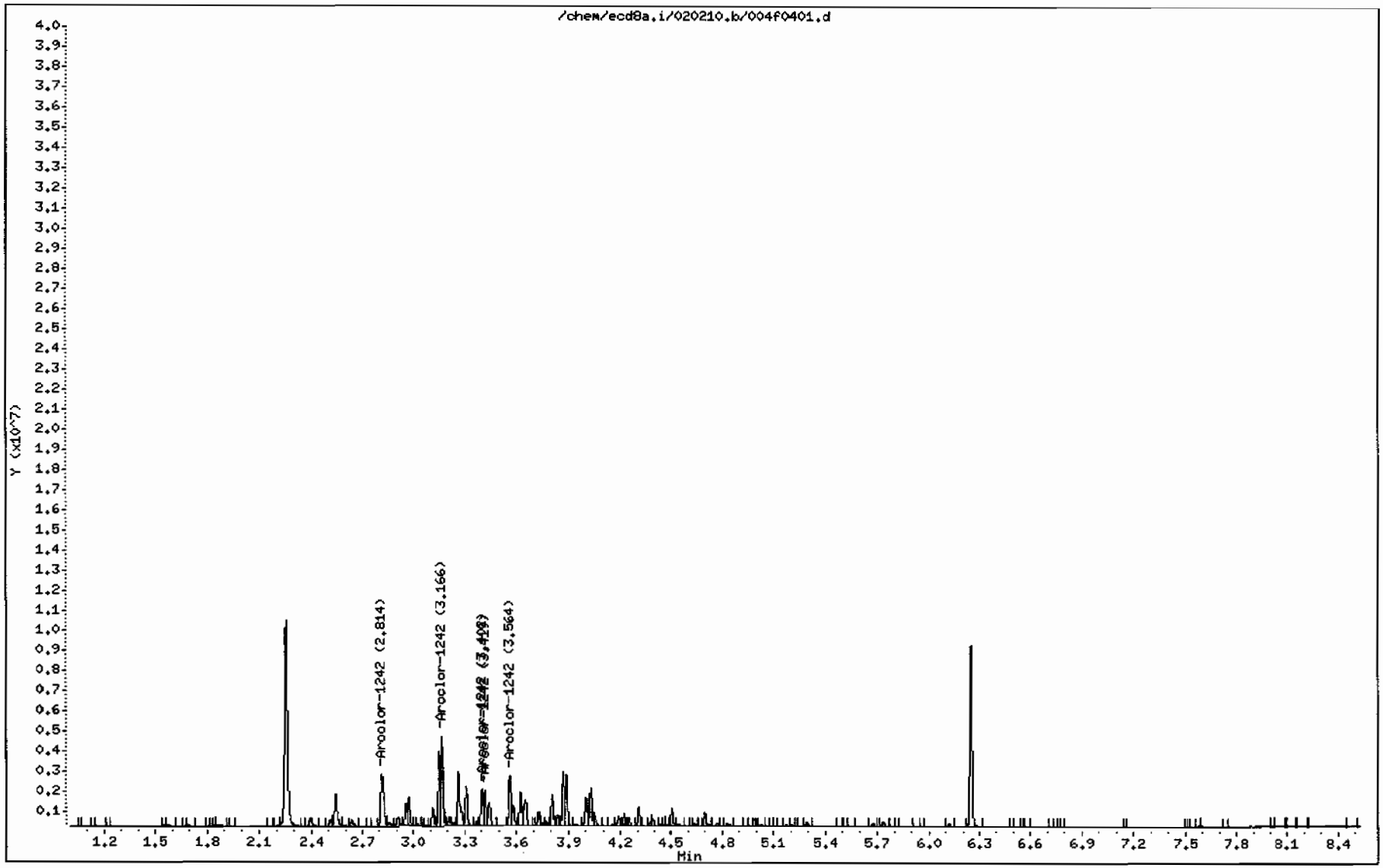
Sample Info: IWAR091217-42

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/004b0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 02-FEB-2010 12:30
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-42
Misc Info : |1242
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 02-Feb-2010 14:23 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
4 Aroclor-1242					CAS #: 53469-21-9		
3.209	3.209	0.000	2178813	1000.00	948	80.00- 120.00	100.00
3.563	3.563	0.000	2559327	1000.00	999	97.46- 137.46	117.46
3.662	3.662	0.000	1736728	1000.00	957	59.71- 99.71	79.71
4.010	4.010	0.000	1389010	1000.00	968	43.75- 83.75	63.75
4.100	4.100	0.000	1283725	1000.00	955	38.92- 78.92	58.92
		Average of Peak Amounts =			965		

Data File: /chem/ecd8a.i/020210.b/004b0401.d

Page 1

Date : 02-FEB-2010 12:30

Client ID: AR124201

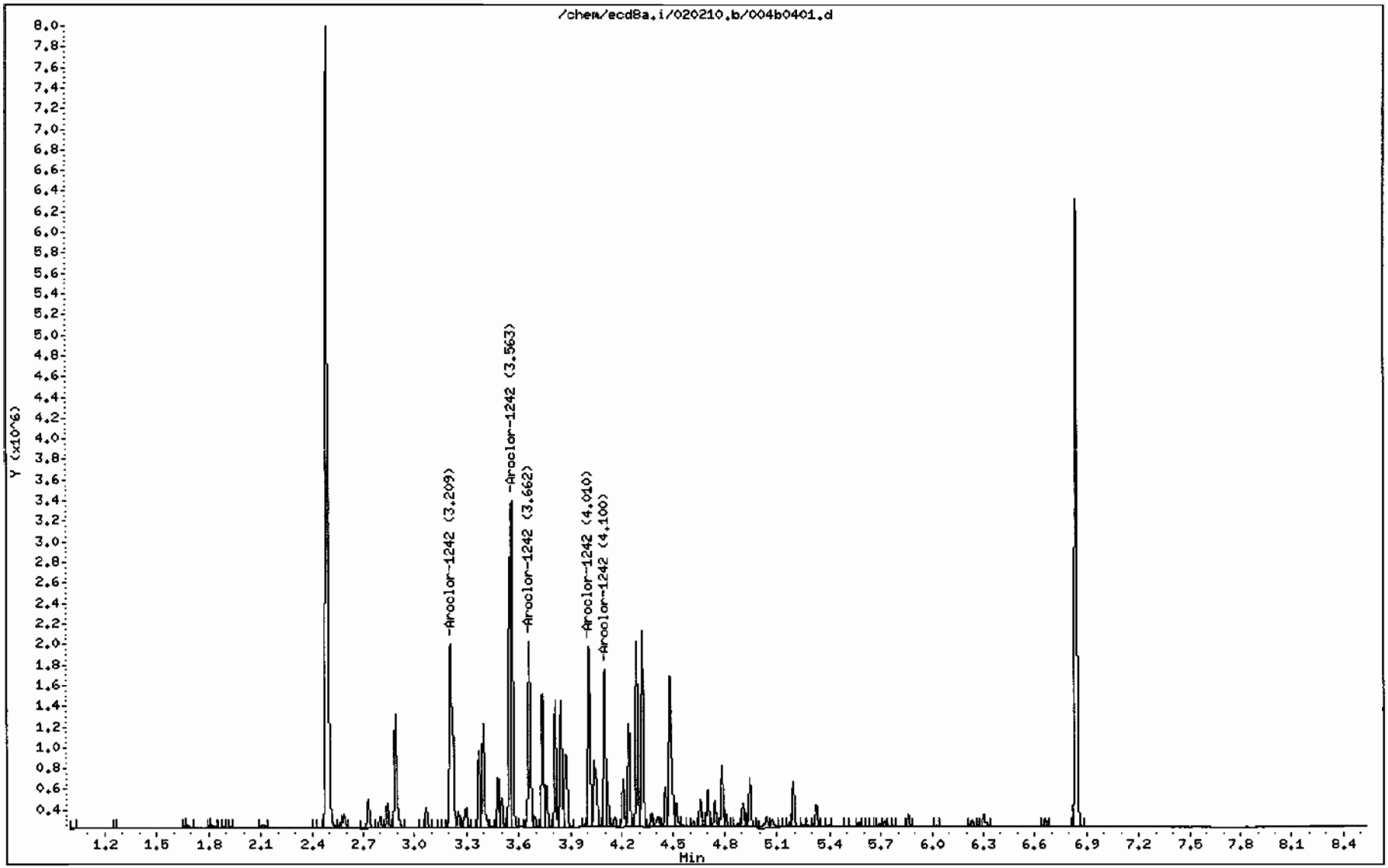
Instrument: ecd8a.i

Sample Info: IWAR091217-42

Operator: JAOC

Column phase: CLP2

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/005f0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 02-FEB-2010 12:43
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-48
Misc Info : |1248
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 02-Feb-2010 14:22 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

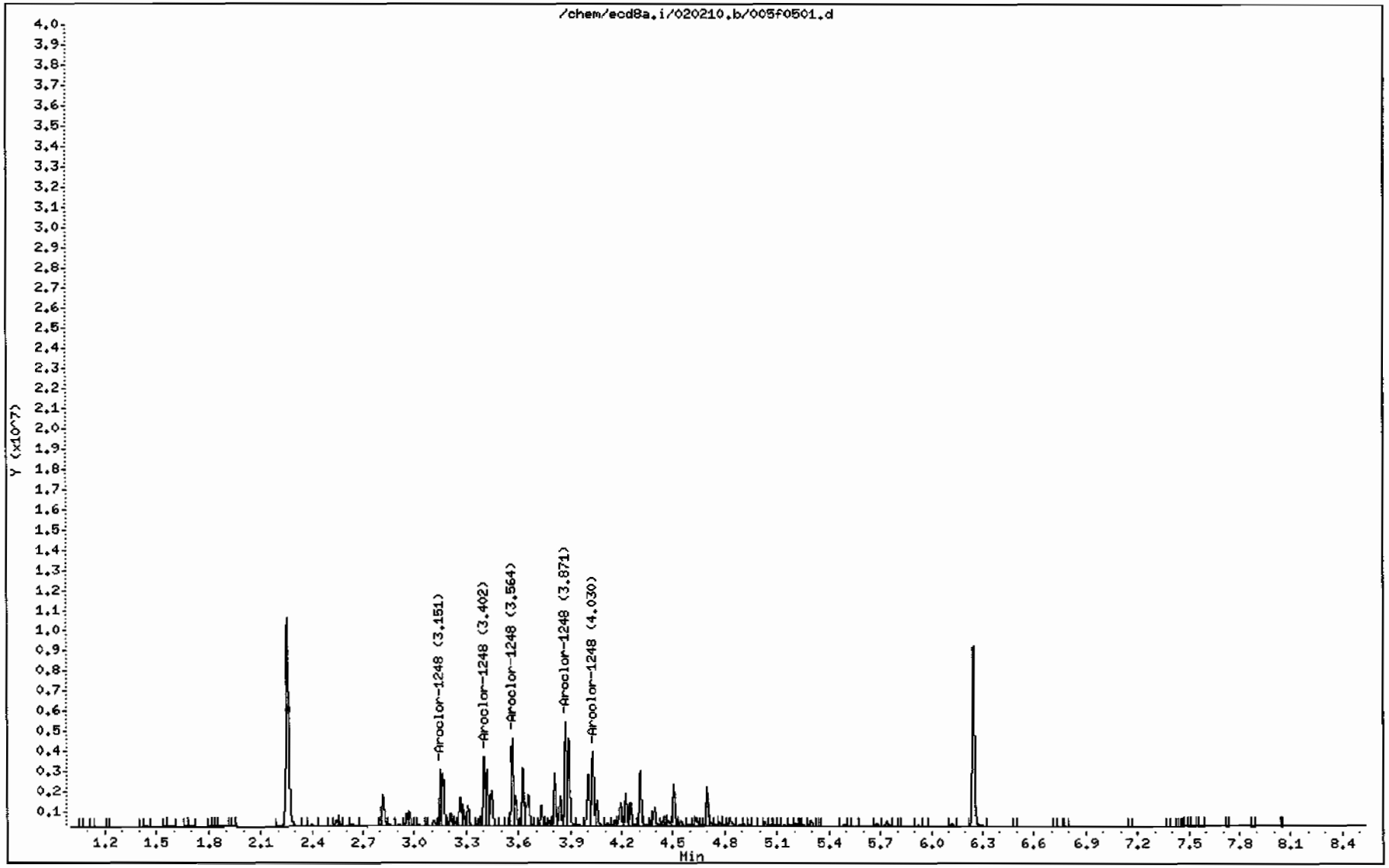
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
5 Aroclor-1248					CAS #: 12672-29-6			
3.151	3.151	0.000	2151298	1000.00	869	80.00- 120.00		100.00
3.402	3.402	0.000	2772538	1000.00	866	108.88- 148.88		128.88
3.564	3.564	0.000	3580500	1000.00	863	146.43- 186.43		166.43
3.871	3.871	0.000	4280720	1000.00	870	178.98- 218.98		198.98
4.030	4.030	0.000	3406658	1000.00	856	138.35- 178.35		158.35
Average of Peak Amounts =					865			

Data File: /chem/ecd8a.i/020210.b/005f0501.d
Date : 02-FEB-2010 12:43
Client ID: AR124801
Sample Info: IWAR091217-48

Instrument: ecd8a.i

Operator: JAOC
Column diameter: 0.25

Column phase: CLP1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/005b0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 02-FEB-2010 12:43
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-48
Misc Info : |1248
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 02-Feb-2010 14:23 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

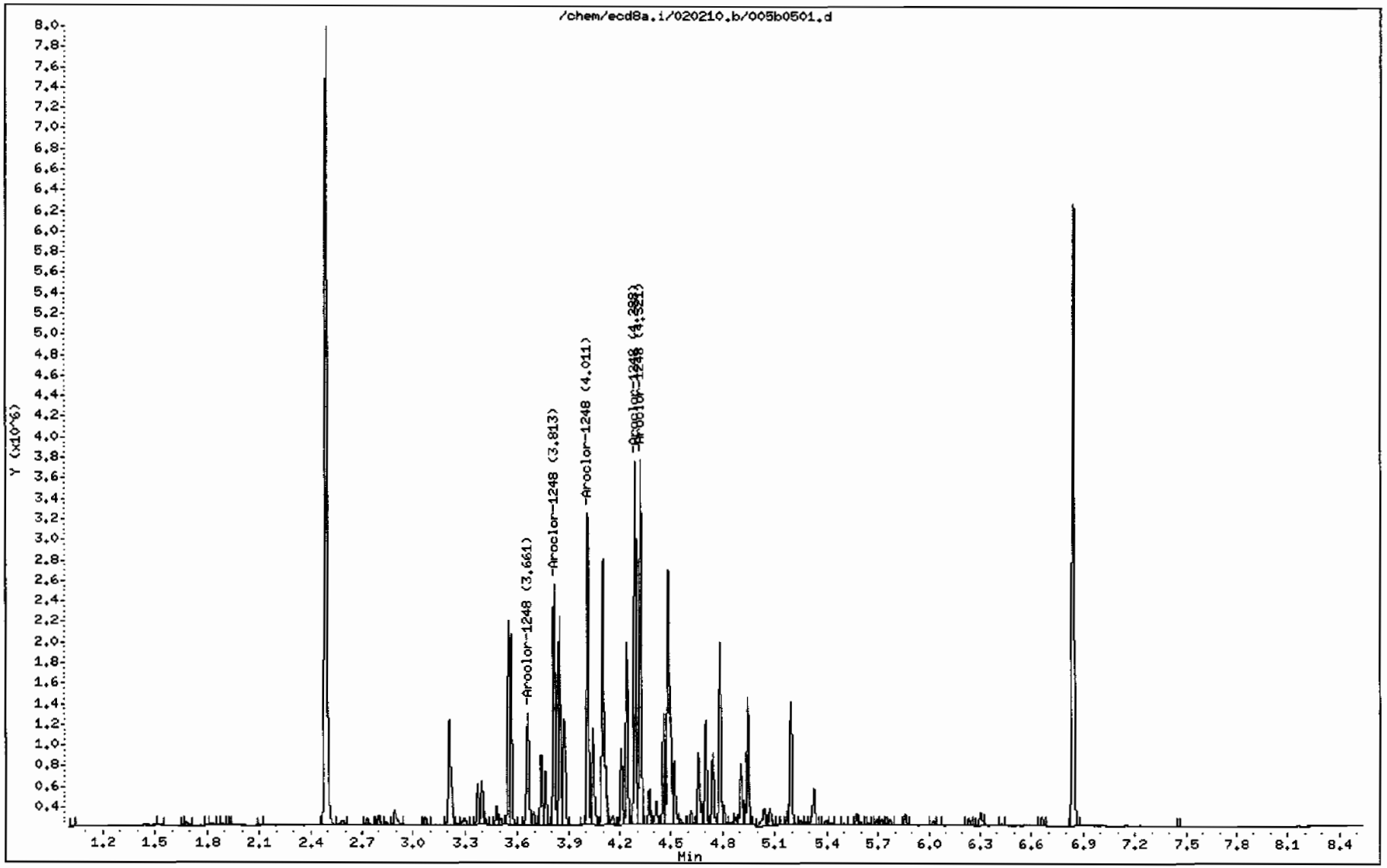
				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6		
3.661	3.661	0.000	1093077	1000.00	801	80.00- 120.00	100.00
3.813	3.813	0.000	1889509	1000.00	917	152.86- 192.86	172.86
4.011	4.011	0.000	2376529	1000.00	925	197.42- 237.42	217.42
4.288	4.288	0.000	2788806	1000.00	933	235.13- 275.13	255.13
4.321	4.321	0.000	3034543	1000.00	926	257.61- 297.61	277.61
		Average of Peak Amounts =			900		

Data File: /chem/ecd8a.i/020210.b/005b0501.d
Date : 02-FEB-2010 12:43
Client ID: AR124801
Sample Info: IWAR091217-48

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/006f0601.d
Lab Smp Id: WAR100104-60 01 Client Smp ID: AR166001
Inj Date : 02-FEB-2010 12:55
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 01
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 02-Feb-2010 14:22 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.257	2.257	0.000	11639469	100.000	88.8	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.249	6.249	0.000	8269549	100.000	93.5	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.814	2.814	0.000	3820950	1000.00	836	80.00- 120.00	100.00
3.166	3.166	0.000	4586304	1000.00	868	100.03- 140.03	120.03
3.310	3.310	0.000	1971859	1000.00	836	31.61- 71.61	51.61
3.402	3.402	0.000	1775538	1000.00	850	26.47- 66.47	46.47
3.564	3.564	0.000	2566060	1000.00	875	47.16- 87.16	67.16
Average of Peak Amounts =					853		
7 Aroclor-1260					CAS #: 11096-82-5		
4.438	4.438	0.000	5383152	1000.00	935	80.00- 120.00	100.00
4.635	4.635	0.000	8170895	1000.00	939	131.79- 171.79	151.79
4.910	4.910	0.000	4816451	1000.00	903	69.47- 109.47	89.47
5.082	5.082	0.000	5065050	1000.00	912	74.09- 114.09	94.09
5.493	5.493	0.000	5446295	1000.00	924	81.17- 121.17	101.17
Average of Peak Amounts =					923		

Data File: /chem/ecd8a.i/020210.b/006f0601.d

Date : 02-FEB-2010 12:55

Client ID: AR166001

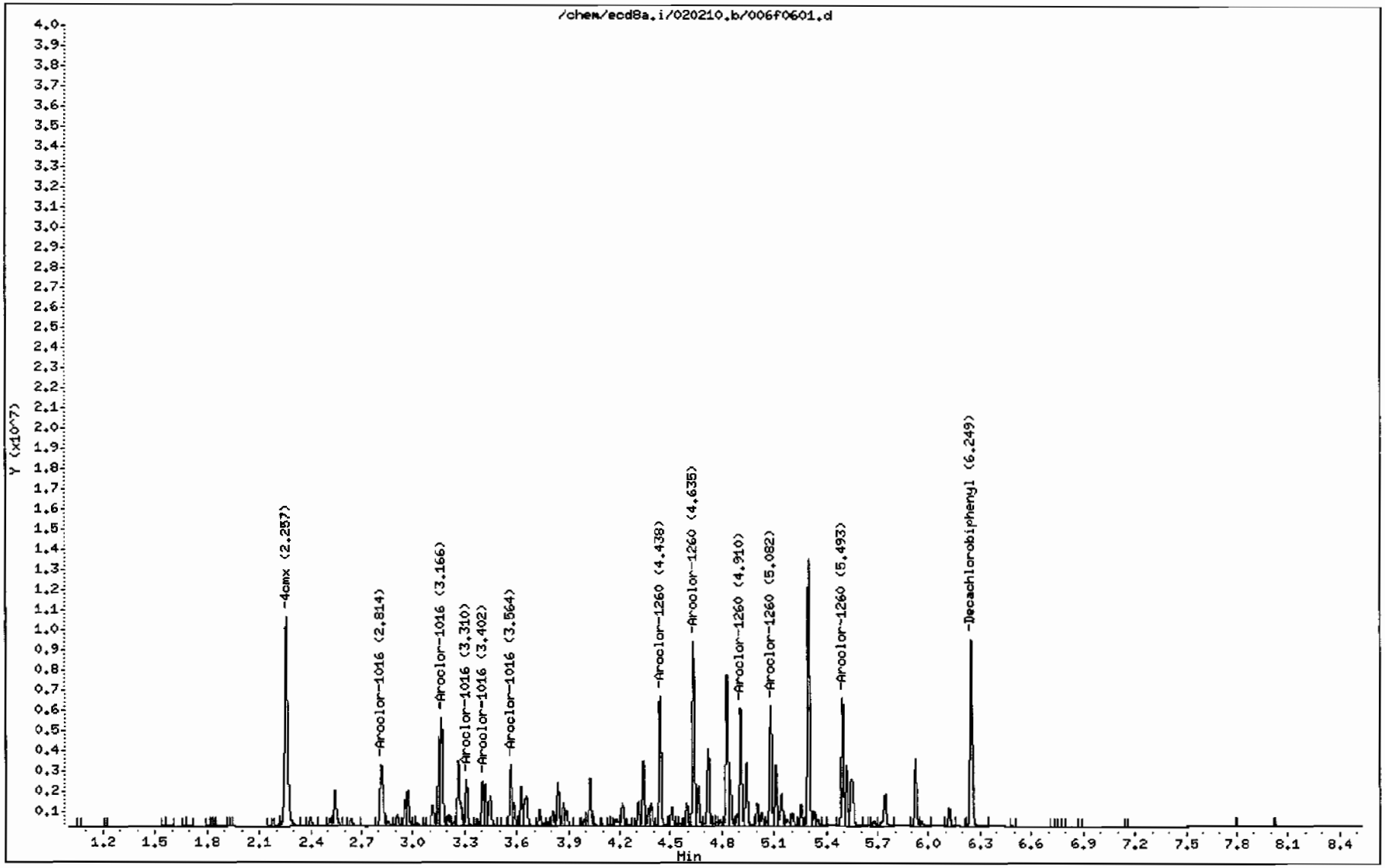
Sample Info: IWAR100104-60 01

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/006b0601.d
Lab Smp Id: WAR100104-60 01 Client Smp ID: AR166001
Inj Date : 02-FEB-2010 12:55
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 01
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 02-Feb-2010 14:23 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)		TARGET RANGE	RATIO
$ 11 4cmx						CAS #: 877-09-8		
2.490	2.490	0.000	7791988	100.000	95.5	80.00-	120.00	100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
6.841	6.841	0.000	5470135	100.000	93.6	80.00-	120.00	100.00
1 Aroclor-1016						CAS #: 12674-11-2		
3.564	3.564	0.000	3036981	1000.00	949	80.00-	120.00	100.00
3.663	3.663	0.000	2093859	1000.00	920	48.95-	88.95	68.95
3.739	3.739	0.000	1241427	1000.00	949	20.88-	60.88	40.88
3.814	3.814	0.000	1199101	1000.00	932	19.48-	59.48	39.48
4.010	4.010	0.000	1681817	1000.00	944	35.38-	75.38	55.38
Average of Peak Amounts =					939			
7 Aroclor-1260						CAS #: 11096-82-5		
4.924	4.924	0.000	3445568	1000.00	975	80.00-	120.00	100.00
5.073	5.073	0.000	4147304	1000.00	983	100.37-	140.37	120.37
5.389	5.389	0.000	3178471	1000.00	980	72.25-	112.25	92.25
5.596	5.596	0.000	3301897	1000.00	982	75.83-	115.83	95.83
6.027	6.027	0.000	5203792	1000.00	975	131.03-	171.03	151.03
Average of Peak Amounts =					979			

Data File: /chem/ecd8a.i/020210.b/006b0601.d

Date : 02-FEB-2010 12:55

Client ID: AR166001

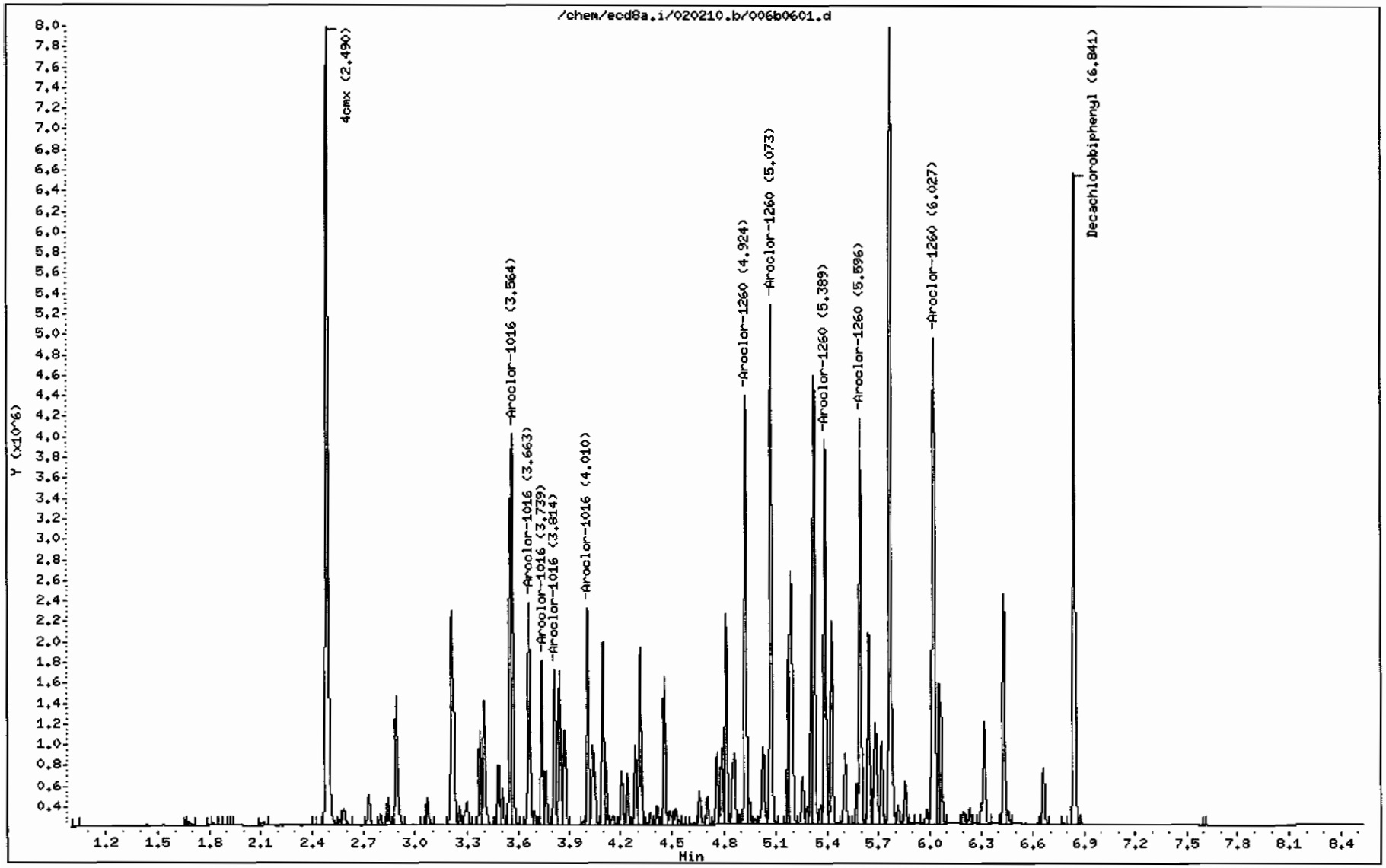
Sample Info: IWAR100104-60 01

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/007f0701.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 02-FEB-2010 13:08
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-32
Misc Info : |1232
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 02-Feb-2010 14:22 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
2.544	2.544	0.000	2214014	1000.00	814	80.00- 120.00	100.00
2.814	2.814	0.000	1960835	1000.00	901	68.56- 108.56	88.56
3.309	3.309	0.000	1034651	1000.00	922	26.73- 66.73	46.73
3.564	3.564	0.000	1241871	1000.00	981	36.09- 76.09	56.09
3.625	3.625	0.000	778450	1000.00	962	15.16- 55.16	35.16
		Average of Peak Amounts =			916		

Data File: /chem/ecd8a.i/020210.b/007f0701.d

Date : 02-FEB-2010 13:08

Client ID: AR123201

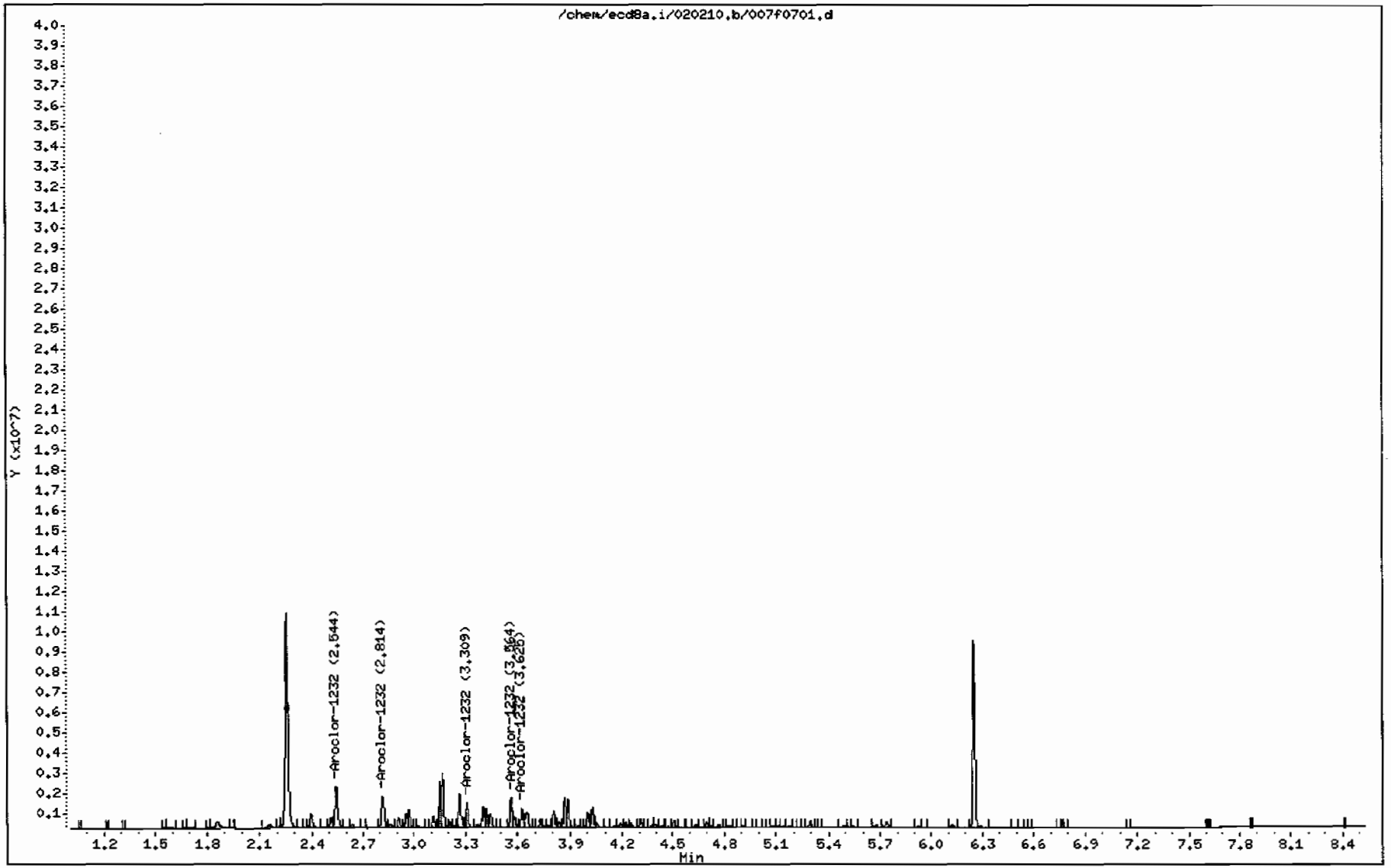
Instrument: ecd8a.i

Sample Info: IWAR100104-32

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/007b0701.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 02-FEB-2010 13:08
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-32
Misc Info : |1232
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 02-Feb-2010 14:23 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
3.209	3.209	0.000	1354357	1000.00	961	80.00- 120.00	100.00
3.563	3.563	0.000	1476162	1000.00	1020	88.99- 128.99	108.99
3.663	3.663	0.000	1050590	1000.00	991	57.57- 97.57	77.57
3.739	3.739	0.000	625501	1000.00	1040	26.18- 66.18	46.18
3.814	3.814	0.000	543640	1000.00	1060	20.14- 60.14	40.14
		Average of Peak Amounts =			1.02e+03		

Data File: /chem/ecd8a.i/020210.b/007b0701.d

Date : 02-FEB-2010 13:08

Client ID: AR123201

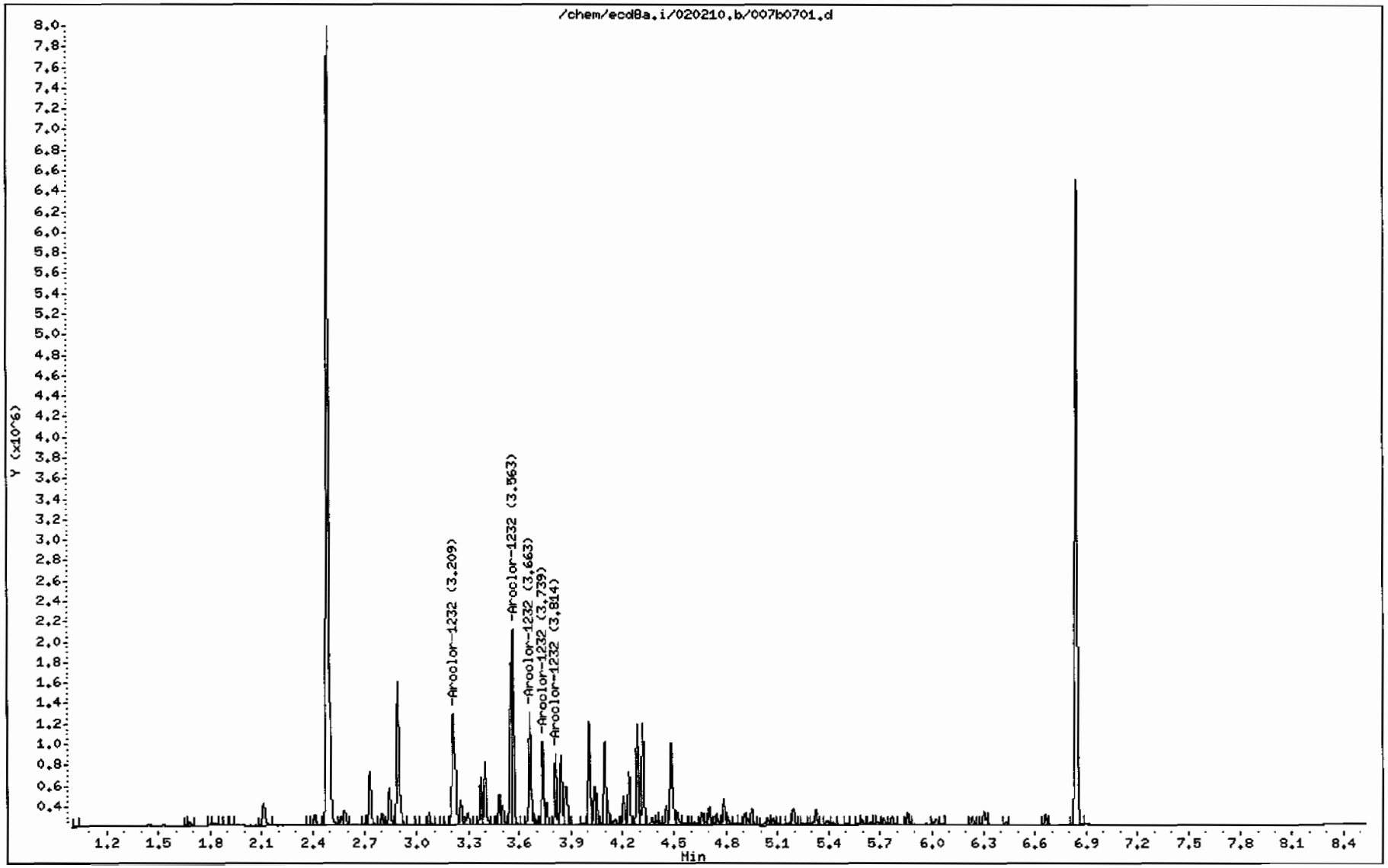
Sample Info: IWAR100104-32

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/008f0801.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 02-FEB-2010 13:20
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-21
Misc Info : |1221
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 02-Feb-2010 14:22 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
2 Aroclor-1221						CAS #: 11104-28-2		
1.858	1.858	0.000	1002183	1000.00	1160	80.00- 120.00		100.00
2.398	2.398	0.000	1218995	1000.00	981	101.63- 141.63		121.63
2.543	2.543	0.000	2800141	1000.00	985	259.40- 299.40		279.40
		Average of Peak Amounts =			1.04e+03			

Data File: /chem/ecd8a.i/020210.b/008f0801.d

Date : 02-FEB-2010 13:20

Client ID: AR122101

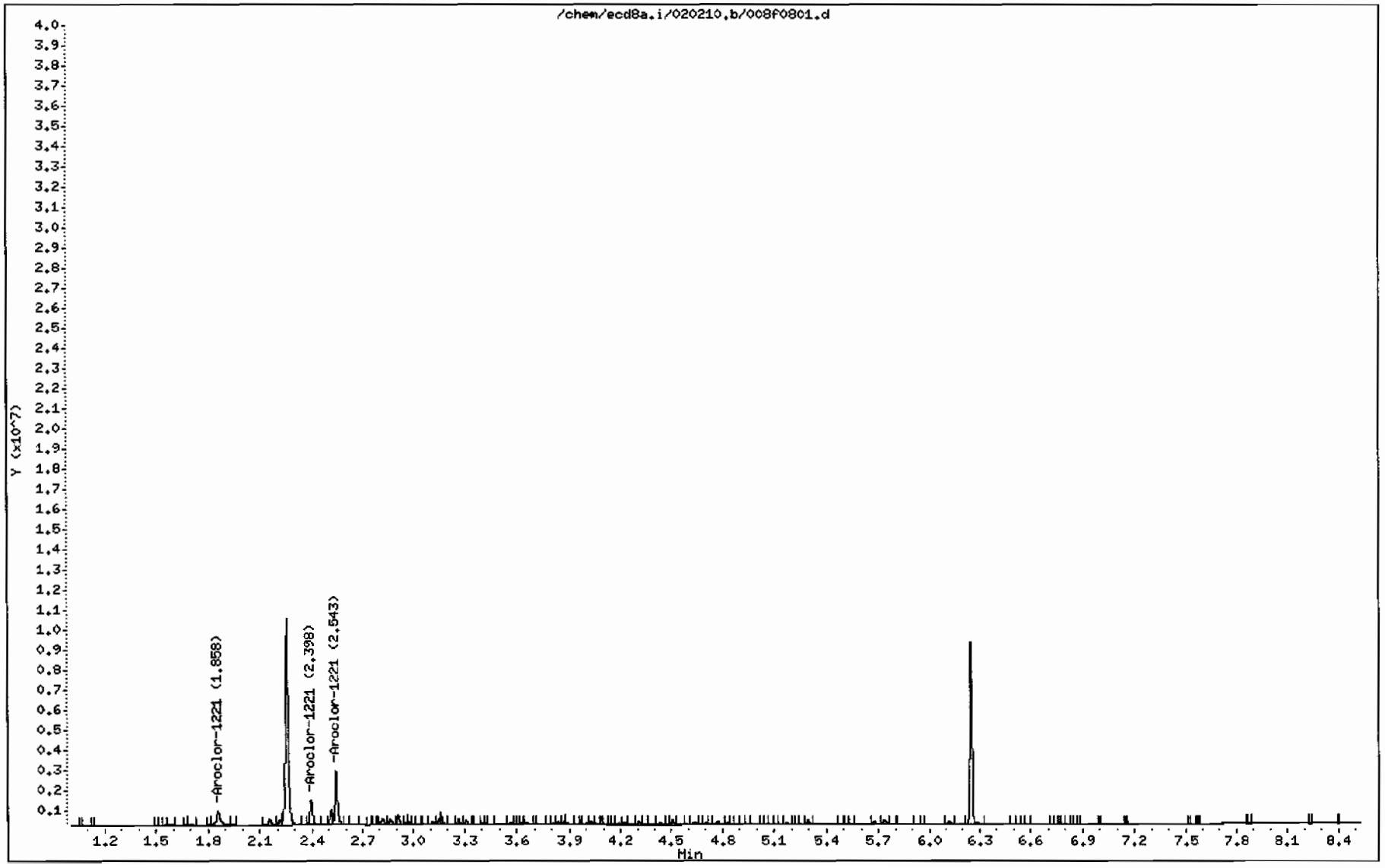
Instrument: ecd8a.i

Sample Info: IWAR100104-21

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/008b0801.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 02-FEB-2010 13:20
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-21
Misc Info : |1221
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 02-Feb-2010 14:23 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
2 Aroclor-1221					CAS #: 11104-28-2		
2.731	2.731	0.000	812060	1000.00	961	80.00- 120.00	100.00
2.843	2.843	0.000	493244	1000.00	993	40.74- 80.74	60.74
2.892	2.892	0.000	1774709	1000.00	1010	198.54- 238.54	218.54
Average of Peak Amounts =					989		

Data File: /chem/ecd8a.i/020210.b/008b0801.d

Page 1

Date : 02-FEB-2010 13:20

Client ID: AR122101

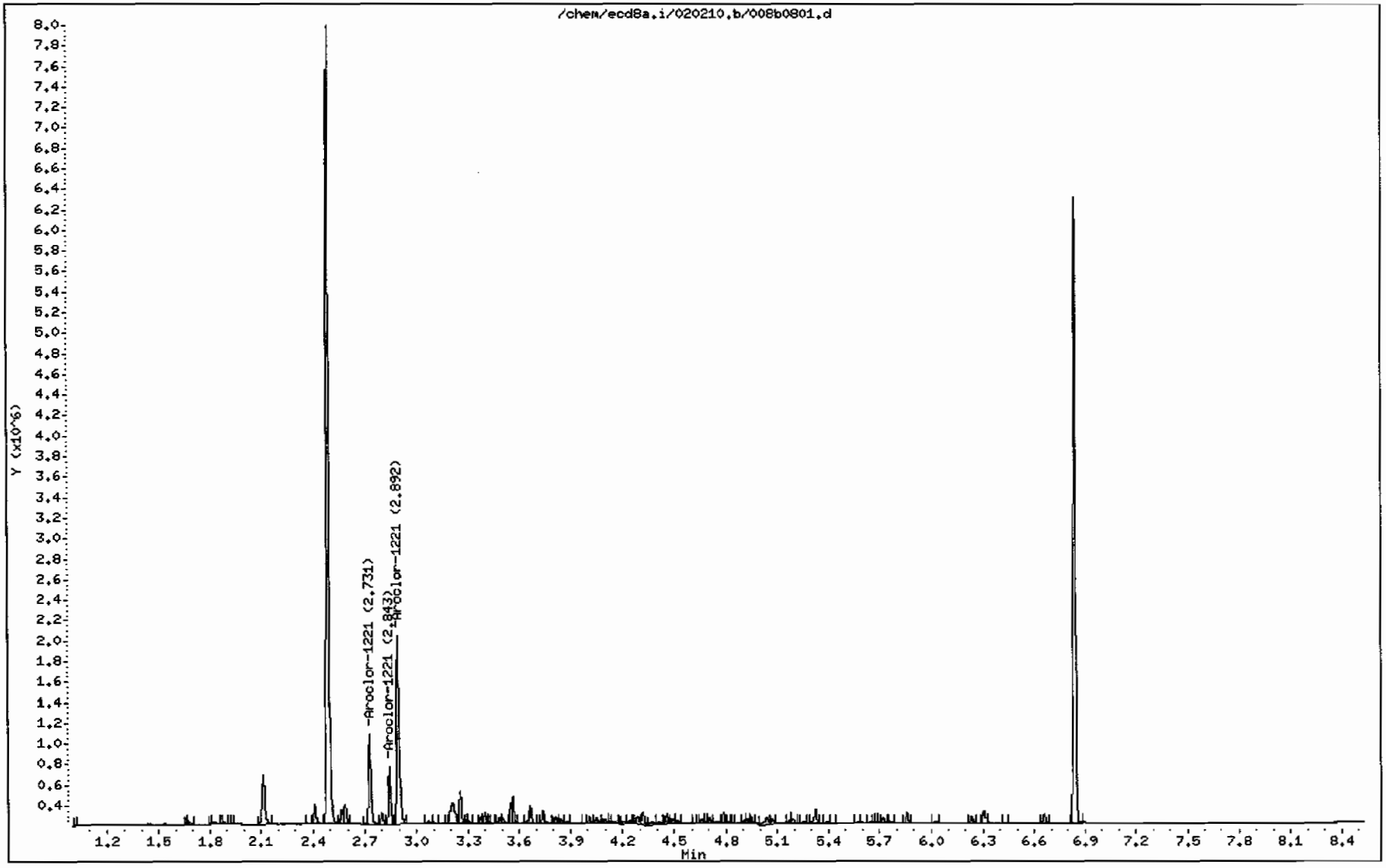
Instrument: ecd8a.i

Sample Info: IWAR100104-21

Operator: JAOC

Column phase: CLP2

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/030f3001.d
Lab Smp Id: WAR100104-60 03 Client Smp ID: AR166003
Inj Date : 02-FEB-2010 17:54
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 03
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.255	2.257	-0.002	12839746	100.000	98.0	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.247	6.249	-0.002	8848743	100.000	100	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.813	2.814	-0.001	4155408	1000.00	909	80.00- 120.00	100.00
3.165	3.166	-0.001	4998354	1000.00	946	110.80- 150.80	120.29
3.309	3.310	-0.001	2116429	1000.00	897	34.76- 74.76	50.93
3.401	3.402	-0.001	1902937	1000.00	911	27.61- 67.61	45.79
3.563	3.564	-0.001	2738579	1000.00	934	49.41- 89.41	65.90
Average of Peak Amounts =					919		
7 Aroclor-1260					CAS #: 11096-82-5		
4.437	4.438	-0.001	5770874	1000.00	1000	80.00- 120.00	100.00
4.633	4.635	-0.002	8797880	1000.00	1010	129.36- 169.36	152.45
4.909	4.910	-0.001	5145542	1000.00	965	68.28- 108.28	89.16
5.080	5.082	-0.002	5414645	1000.00	975	72.30- 112.30	93.83
5.492	5.493	-0.001	5884491	1000.00	998	81.81- 121.81	101.97
Average of Peak Amounts =					990		

Data File: /chem/ecd8a.i/020210.b/030f3001.d

Date : 02-FEB-2010 17:54

Client ID: AR166003

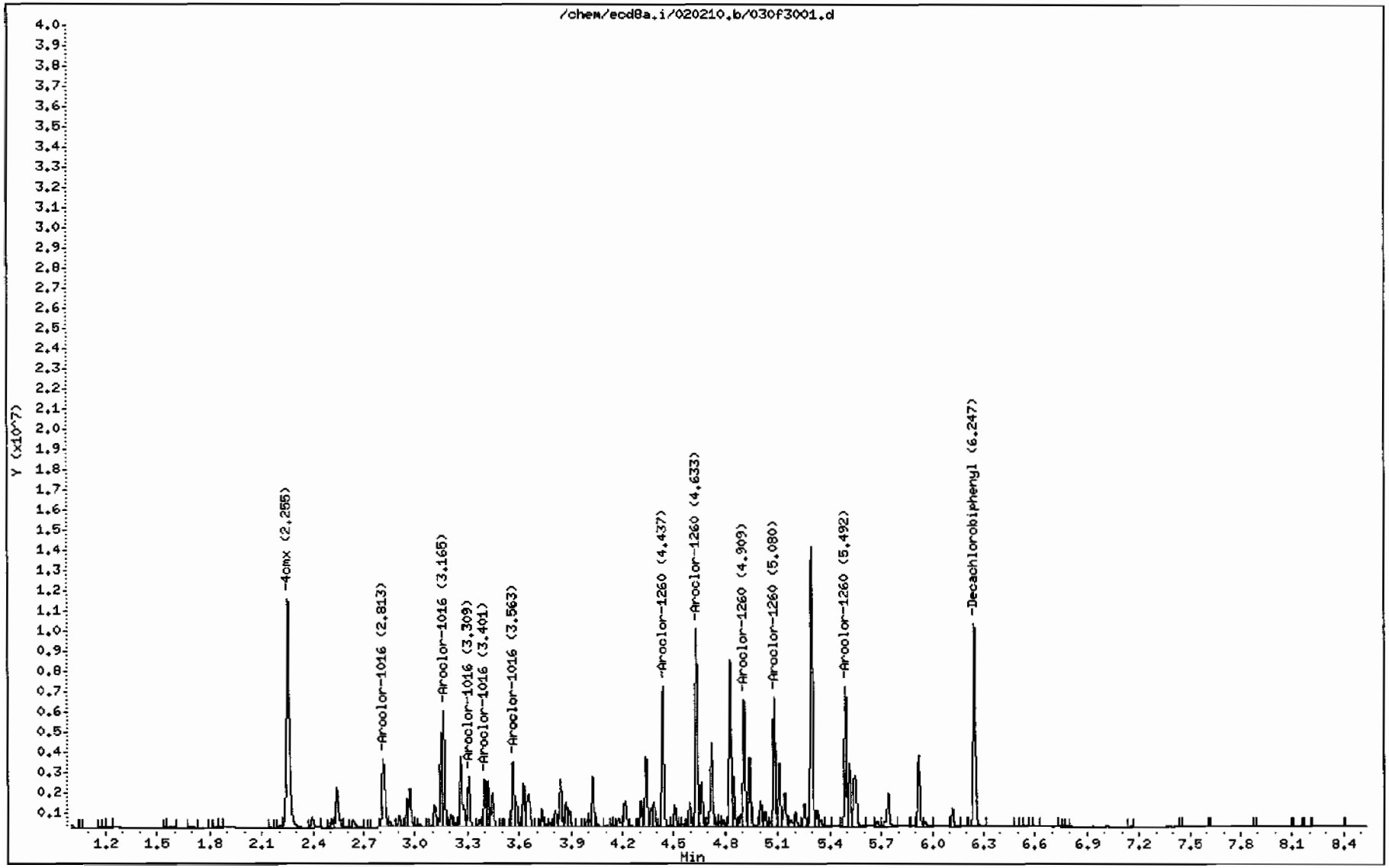
Sample Info: IWAR100104-60 03

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/030b3001.d
Lab Smp Id: WAR100104-60 03 Client Smp ID: AR166003
Inj Date : 02-FEB-2010 17:54
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 03
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

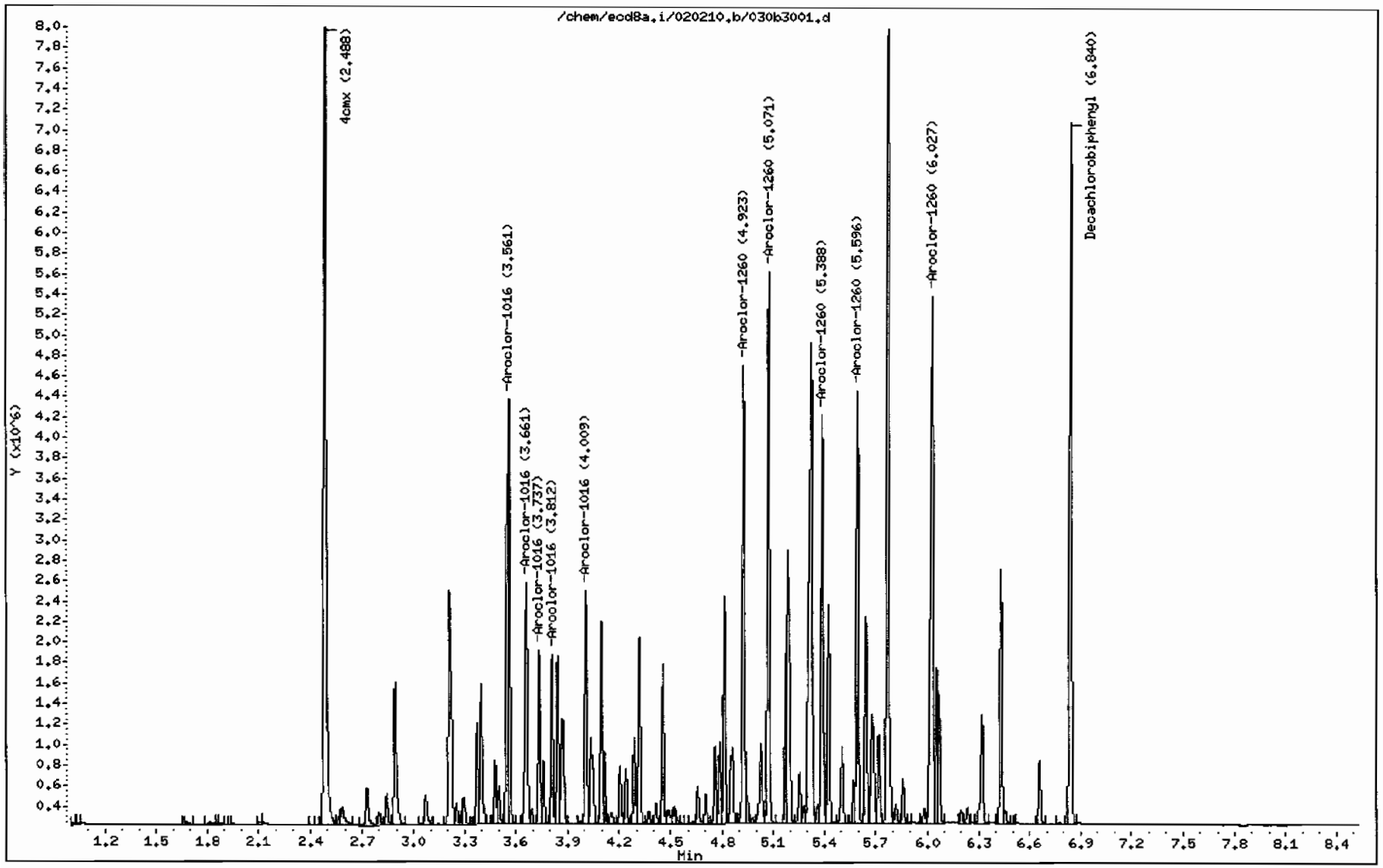
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
$ 11 4cmx						CAS #: 877-09-8		
2.488	2.490	-0.002	8655535	100.000	106	80.00- 120.00		100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
6.840	6.841	-0.001	5979858	100.000	102	80.00- 120.00		100.00
1 Aroclor-1016						CAS #: 12674-11-2		
3.561	3.564	-0.003	3269473	1000.00	1020	80.00- 120.00		100.00
3.661	3.663	-0.002	2269968	1000.00	997	43.52- 83.52		69.43
3.737	3.739	-0.002	1330464	1000.00	1020	19.39- 59.39		40.69
3.812	3.814	-0.002	1285017	1000.00	999	17.55- 57.55		39.30
4.009	4.010	-0.001	1801184	1000.00	1010	32.56- 72.56		55.09
Average of Peak Amounts =					1.01e+03			
7 Aroclor-1260						CAS #: 11096-82-5		
4.923	4.924	-0.001	3681805	1000.00	1040	80.00- 120.00		100.00
5.071	5.073	-0.002	4428757	1000.00	1050	102.57- 142.57		120.29
5.388	5.389	-0.001	3390845	1000.00	1050	72.38- 112.38		92.10
5.596	5.596	0.000	3507932	1000.00	1040	76.07- 116.07		95.28
6.027	6.027	0.000	5628928	1000.00	1050	131.32- 171.32		152.89
Average of Peak Amounts =					1.05e+03			

Data File: /chem/ecd8a.i/020210.b/030b3001.d
Date : 02-FEB-2010 17:54
Client ID: AR166003
Sample Info: IWAR100104-60 03

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/042f4201.d
Lab Smp Id: WAR100104-60 04 Client Smp ID: AR166004
Inj Date : 02-FEB-2010 20:26
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 04
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
$ 11 4cmx						CAS #: 877-09-8		
2.255	2.257	-0.002	13849045	100.000	106	80.00-	120.00	100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
6.247	6.249	-0.002	9769881	100.000	110	80.00-	120.00	100.00
1 Aroclor-1016						CAS #: 12674-11-2		
2.813	2.814	-0.001	4553970	1000.00	996	80.00-	120.00	100.00
3.165	3.166	-0.001	5931842	1000.00	1120	110.80-	150.80	130.26
3.308	3.310	-0.002	2487932	1000.00	1050	34.76-	74.76	54.63
3.400	3.402	-0.002	2168501	1000.00	1040	27.61-	67.61	47.62
3.563	3.564	-0.001	3155556	1000.00	1080	49.41-	89.41	69.29
Average of Peak Amounts =				1.06e+03				
7 Aroclor-1260						CAS #: 11096-82-5		
4.437	4.438	-0.001	6933068	1000.00	1200	80.00-	120.00	100.00
4.632	4.635	-0.003	10522037	1000.00	1210	129.36-	169.36	151.77
4.907	4.910	-0.003	6214535	1000.00	1160	68.28-	108.28	89.64
5.080	5.082	-0.002	6490995	1000.00	1170	72.30-	112.30	93.62
5.492	5.493	-0.001	7088232	1000.00	1200	81.81-	121.81	102.24
Average of Peak Amounts =				1.19e+03				

Data File: /chem/ecd8a.i/020210.b/042f4201.d

Page 1

Date : 02-FEB-2010 20:26

Client ID: AR166004

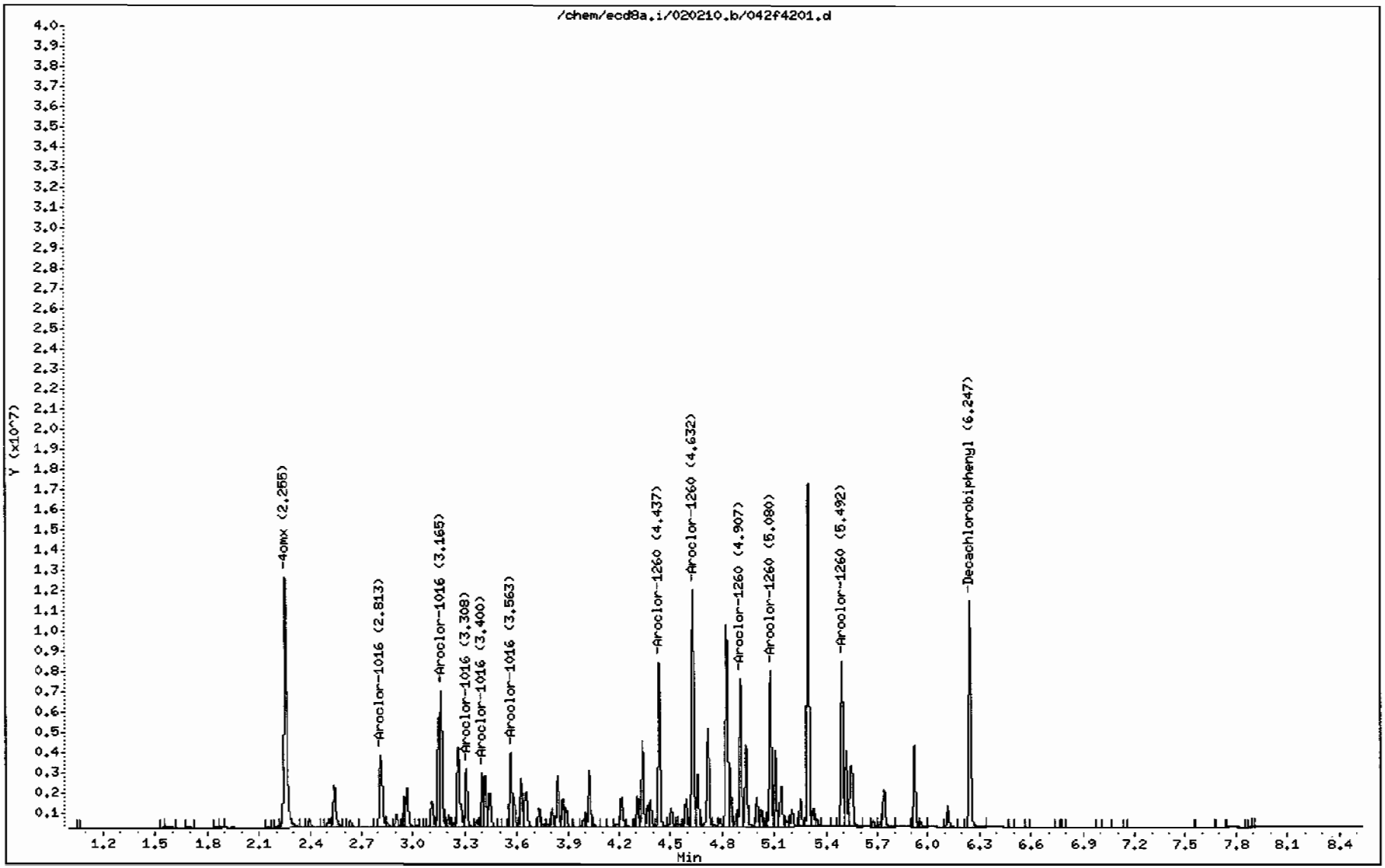
Instrument: ecd8a.i

Sample Info: IWAR100104-60 04

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/042b4201.d
Lab Smp Id: WAR100104-60 04 Client Smp ID: AR166004
Inj Date : 02-FEB-2010 20:26
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 04
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.489	2.490	-0.001	9433702	100.000	116	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.840	6.841	-0.001	6521905	100.000	112	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.562	3.564	-0.002	4029385	1000.00	1260	80.00- 120.00	100.00
3.662	3.663	-0.001	2579791	1000.00	1130	43.52- 83.52	64.02
3.738	3.739	-0.001	1594090	1000.00	1220	19.39- 59.39	39.56
3.812	3.814	-0.002	1524745	1000.00	1180	17.55- 57.55	37.84
4.009	4.010	-0.001	2126997	1000.00	1190	32.56- 72.56	52.79
Average of Peak Amounts =					1.2e+03		
7 Aroclor-1260					CAS #: 11096-82-5		
4.922	4.924	-0.002	4266786	1000.00	1210	80.00- 120.00	100.00
5.072	5.073	-0.001	5238640	1000.00	1240	102.57- 142.57	122.78
5.388	5.389	-0.001	3962442	1000.00	1220	72.38- 112.38	92.87
5.596	5.596	0.000	4141860	1000.00	1230	76.07- 116.07	97.07
6.027	6.027	0.000	6478501	1000.00	1210	131.32- 171.32	151.84
Average of Peak Amounts =					1.22e+03		

Data File: /chem/ecd8a.i/020210.b/042b4201.d

Date : 02-FEB-2010 20:26

Client ID: AR166004

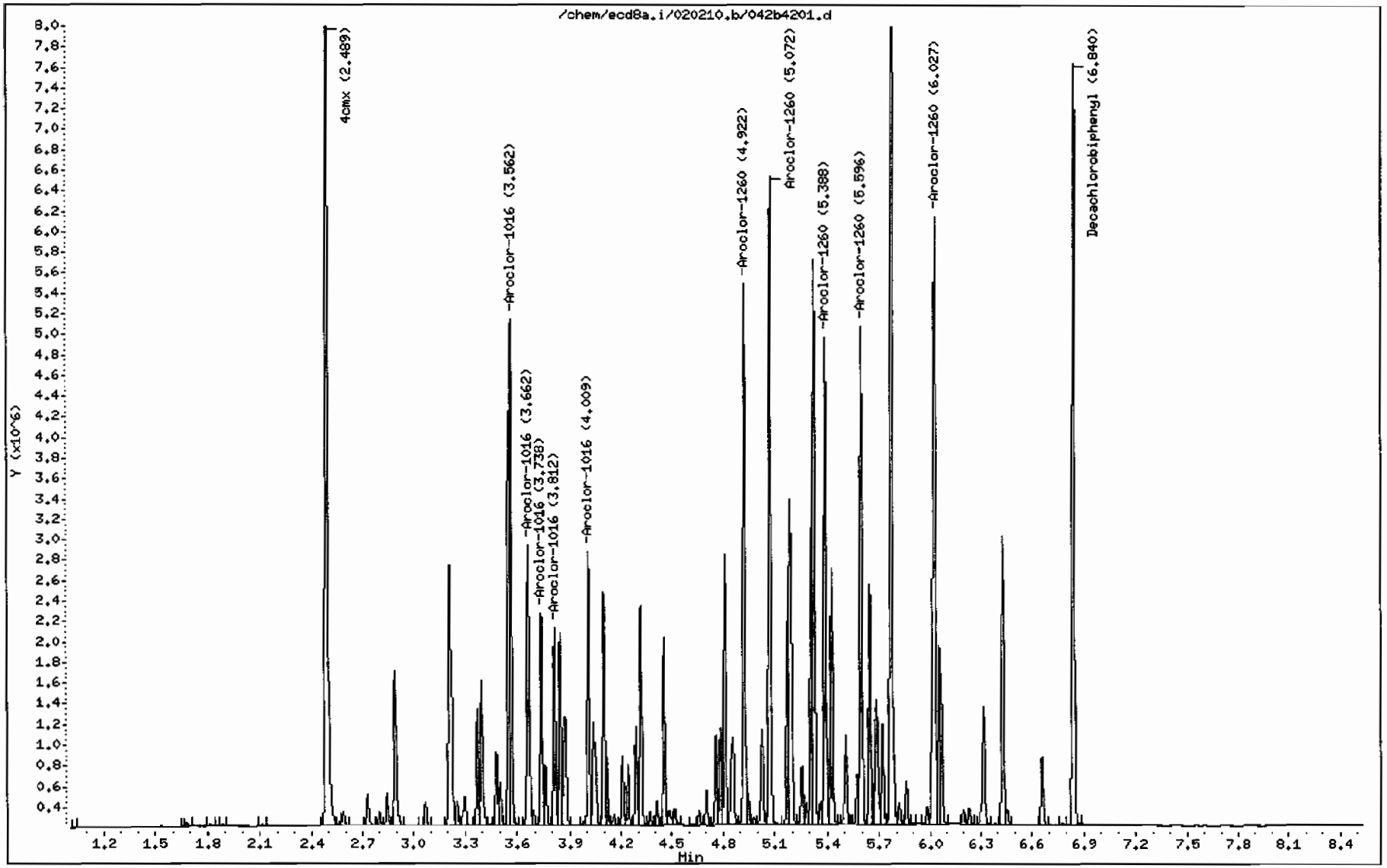
Sample Info: IWAR100104-60 04

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/052f5201.d
Lab Smp Id: WAR100104-60 05 Client Smp ID: AR166005
Inj Date : 02-FEB-2010 22:34
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 05
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.254	2.257	-0.003	13765758	100.000	105	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.247	6.249	-0.002	9924156	100.000	112	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.813	2.814	-0.001	4518954	1000.00	988	80.00- 120.00	100.00
3.164	3.166	-0.002	5910755	1000.00	1120	110.80- 150.80	130.80
3.308	3.310	-0.002	2474369	1000.00	1050	34.76- 74.76	54.76
3.400	3.402	-0.002	2151360	1000.00	1030	27.61- 67.61	47.61
3.562	3.564	-0.002	3136492	1000.00	1070	49.41- 89.41	69.41
Average of Peak Amounts =				1.05e+03			
7 Aroclor-1260					CAS #: 11096-82-5		
4.436	4.438	-0.002	6995042	1000.00	1210	80.00- 120.00	100.00
4.632	4.635	-0.003	10447560	1000.00	1200	129.36- 169.36	149.36
4.907	4.910	-0.003	6175379	1000.00	1160	68.28- 108.28	88.28
5.079	5.082	-0.003	6456231	1000.00	1160	72.30- 112.30	92.30
5.490	5.493	-0.003	7121994	1000.00	1210	81.81- 121.81	101.81
Average of Peak Amounts =				1.19e+03			

Data File: /chem/ecd8a.i/020210.b/052f5201.d

Page 1

Date : 02-FEB-2010 22:34

Client ID: AR166005

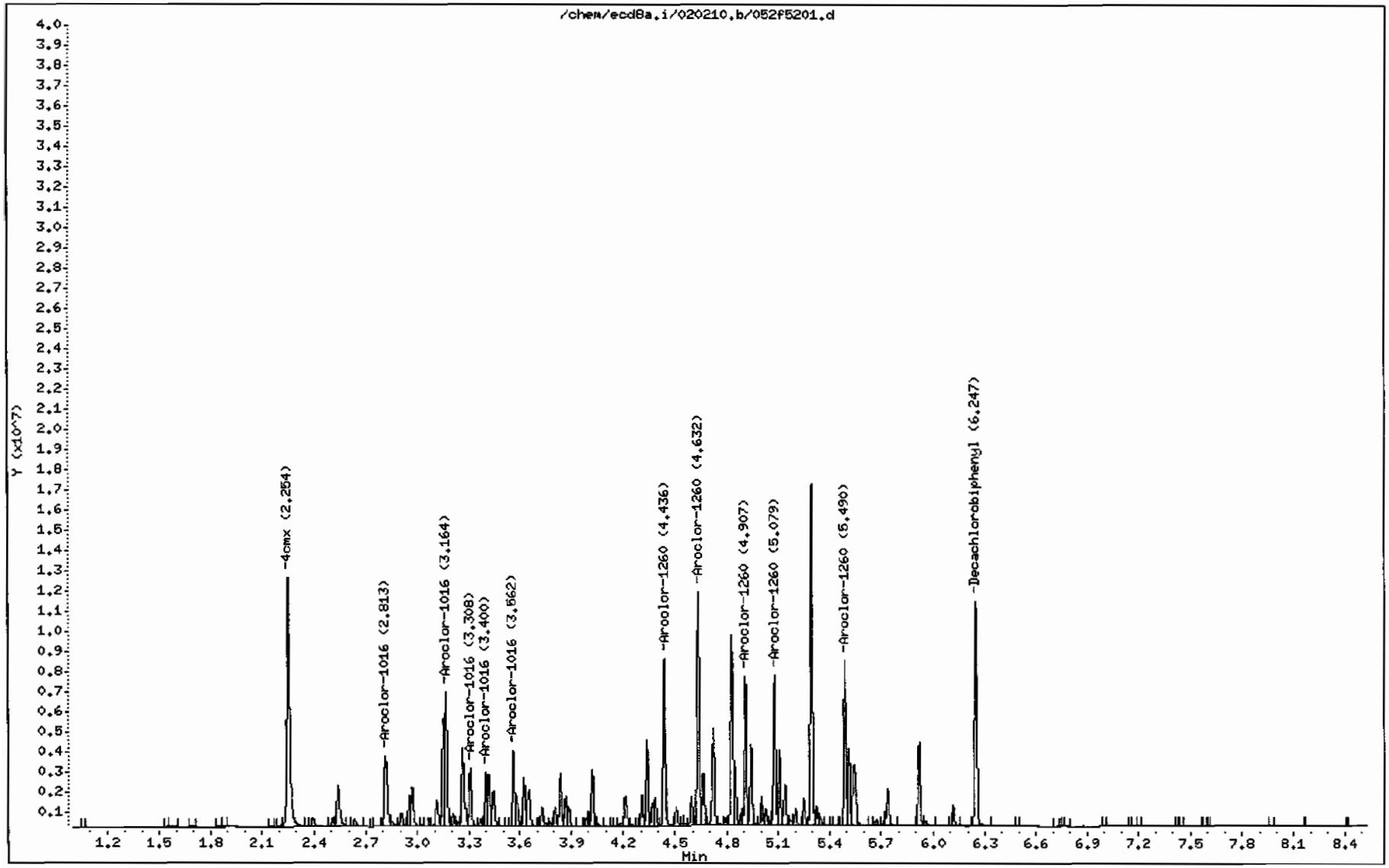
Instrument: ecd8a.i

Sample Info: IWAR100104-60 05

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/052b5201.d
Lab Smp Id: WAR100104-60 05 Client Smp ID: AR166005
Inj Date : 02-FEB-2010 22:34
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-60 05
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

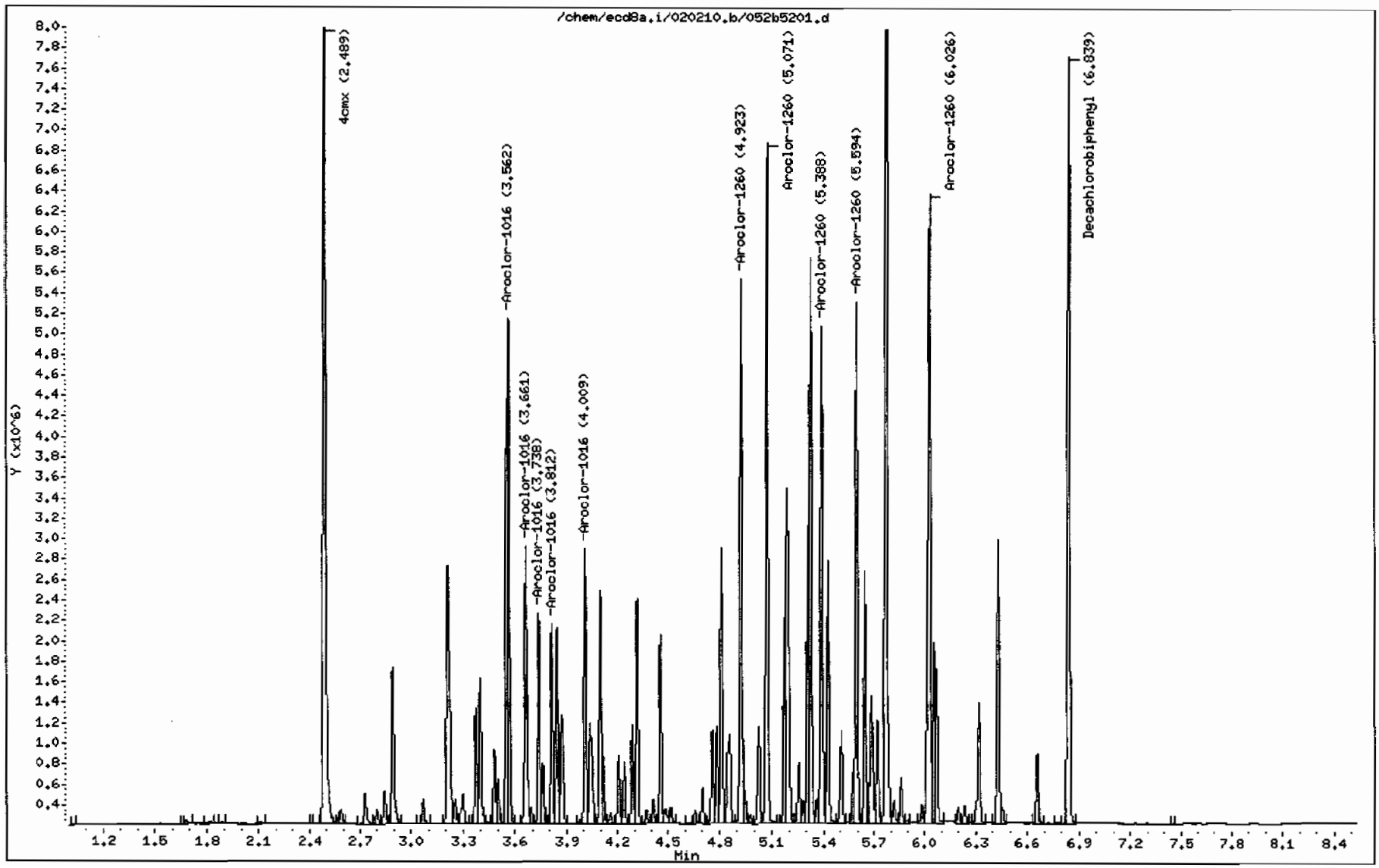
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
$ 11 4cmx						CAS #: 877-09-8		
2.489	2.490	-0.001	9525385	100.000	117	80.00- 120.00		100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
6.839	6.841	-0.002	6577082	100.000	112	80.00- 120.00		100.00
1 Aroclor-1016						CAS #: 12674-11-2		
3.562	3.564	-0.002	4123239	1000.00	1290	80.00- 120.00		100.00
3.661	3.663	-0.002	2618959	1000.00	1150	43.52- 83.52		63.52
3.738	3.739	-0.001	1624063	1000.00	1240	19.39- 59.39		39.39
3.812	3.814	-0.002	1548463	1000.00	1200	17.55- 57.55		37.55
4.009	4.010	-0.001	2167158	1000.00	1220	32.56- 72.56		52.56
Average of Peak Amounts =				1.22e+03				
7 Aroclor-1260						CAS #: 11096-82-5		
4.923	4.924	-0.001	4407862	1000.00	1250	80.00- 120.00		100.00
5.071	5.073	-0.002	5402505	1000.00	1280	102.57- 142.57		122.57
5.388	5.389	-0.001	4072041	1000.00	1260	72.38- 112.38		92.38
5.594	5.596	-0.002	4234762	1000.00	1260	76.07- 116.07		96.07
6.026	6.027	-0.001	6670062	1000.00	1250	131.32- 171.32		151.32
Average of Peak Amounts =				1.26e+03				

Data File: /chem/ecd8a.i/020210.b/052b5201.d
Date : 02-FEB-2010 22:34
Client ID: AR166005
Sample Info: IWAR100104-60 05

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/007f0701.d
Lab Smp Id: WAR100203-60 01 Client Smp ID: AR166001
Inj Date : 03-FEB-2010 11:26
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100203-60 01
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 03-Feb-2010 14:11 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 11:14 Cal File: 006f0601.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.257	2.257	0.000	12823758	100.000	97.6	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.248	6.248	0.000	9606163	100.000	96.1	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.814	2.814	0.000	4277769	1000.00	917	80.00- 120.00	100.00
3.166	3.166	0.000	5635007	1000.00	977	111.73- 151.73	131.73
3.309	3.309	0.000	2314377	1000.00	943	34.10- 74.10	54.10
3.402	3.402	0.000	2048620	1000.00	932	27.89- 67.89	47.89
3.564	3.564	0.000	2954258	1000.00	940	49.06- 89.06	69.06
Average of Peak Amounts =					942		
7 Aroclor-1260					CAS #: 11096-82-5		
4.438	4.438	0.000	6940360	1000.00	1030	80.00- 120.00	100.00
4.634	4.634	0.000	10464390	1000.00	1020	130.78- 170.78	150.78
4.908	4.908	0.000	6152446	1000.00	1000	68.65- 108.65	88.65
5.081	5.081	0.000	6446331	1000.00	1010	72.88- 112.88	92.88
5.493	5.493	0.000	7013767	1000.00	1020	81.06- 121.06	101.06
Average of Peak Amounts =					1.02e+03		

Data File: /chem/ecd8a.i/020310a.b/007f0701.d

Date : 03-FEB-2010 11:26

Client ID: AR166001

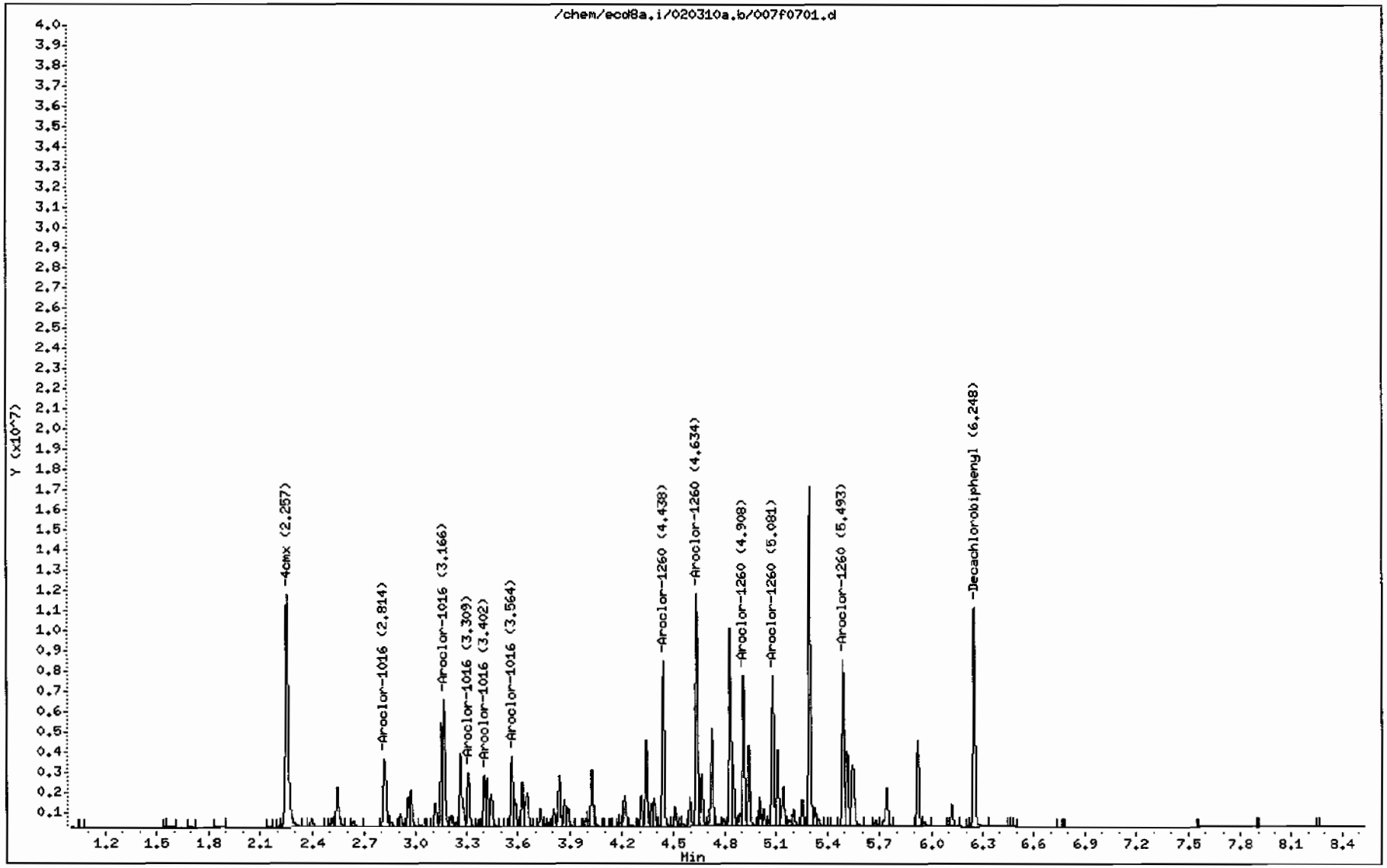
Sample Info: !WAR100203-60 01

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/007b0701.d
Lab Smp Id: WAR100203-60 01 Client Smp ID: AR166001
Inj Date : 03-FEB-2010 11:26
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100203-60 01
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 03-Feb-2010 14:11 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 11:14 Cal File: 006b0601.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.490	2.490	0.000	8806363	100.000	101	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.840	6.840	0.000	6435062	100.000	99.2	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.563	3.563	0.000	3759740	1000.00	998	80.00- 120.00	100.00
3.663	3.663	0.000	2456818	1000.00	985	45.35- 85.35	65.35
3.738	3.738	0.000	1505983	1000.00	994	20.06- 60.06	40.06
3.813	3.813	0.000	1449781	1000.00	971	18.56- 58.56	38.56
4.010	4.010	0.000	2022528	1000.00	994	33.79- 73.79	53.79
Average of Peak Amounts =					988		
7 Aroclor-1260					CAS #: 11096-82-5		
4.923	4.923	0.000	4368853	1000.00	1070	80.00- 120.00	100.00
5.073	5.073	0.000	5338099	1000.00	1070	102.19- 142.19	122.19
5.388	5.388	0.000	4079050	1000.00	1080	73.37- 113.37	93.37
5.596	5.596	0.000	4256948	1000.00	1080	77.44- 117.44	97.44
6.027	6.027	0.000	6753610	1000.00	1080	134.59- 174.59	154.59
Average of Peak Amounts =					1.08e+03		

Data File: /chem/ecd8a.i/020310a.b/007b0701.d

Date : 03-FEB-2010 11:26

Client ID: AR166001

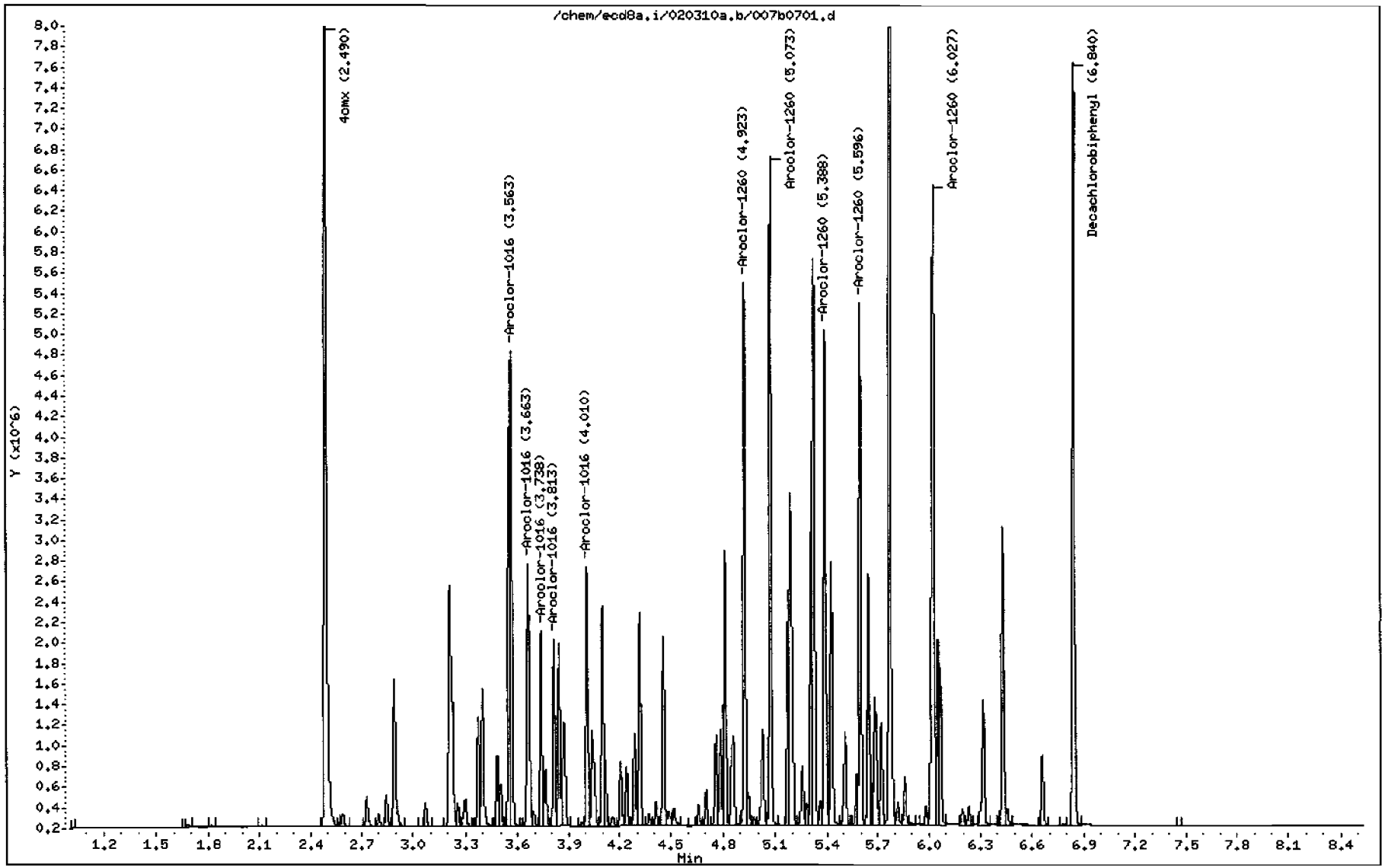
Sample Info: IWAR100203-60 01

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/013f1301.d
Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
Inj Date : 03-FEB-2010 12:40
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091216-54
Misc Info : |1254
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 05-Feb-2010 09:47 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.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
6 Aroclor-1254					CAS #: 11097-69-1		
3.839	3.839	0.000	4412624	1000.00	922	80.00- 120.00	100.00
4.026	4.026	0.000	6002955	1000.00	914	116.04- 156.04	136.04
4.222	4.222	0.000	4732103	1000.00	921	87.24- 127.24	107.24
4.309	4.309	0.000	8215771	1000.00	934	166.19- 206.19	186.19
4.504	4.504	0.000	6418148	1000.00	928	125.45- 165.45	145.45
Average of Peak Amounts =					924		

Data File: /chem/ecd8a.i/020310a.b/013f1301.d

Date : 03-FEB-2010 12:40

Client ID: AR125401

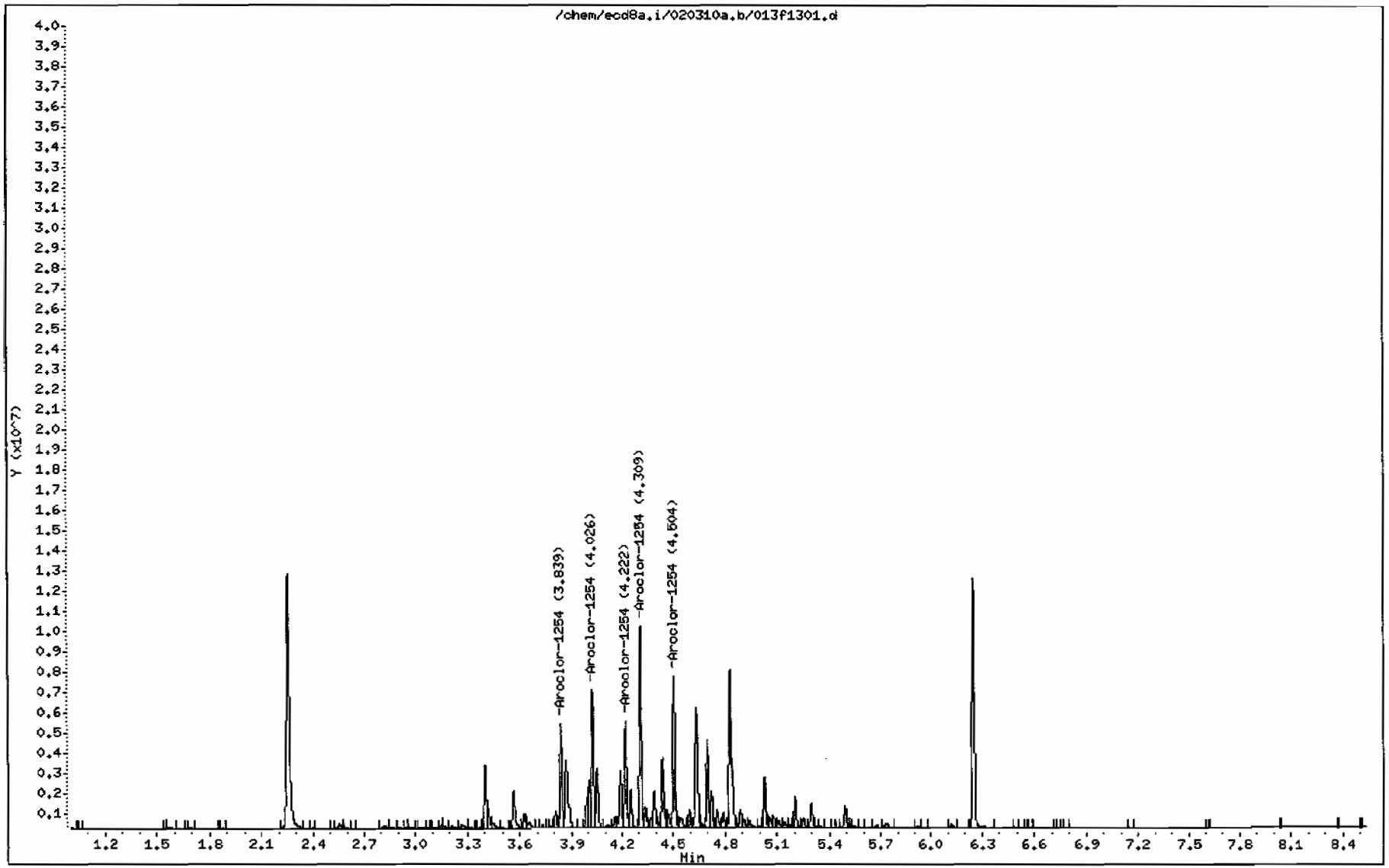
Sample Info: IWAR091216-54

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/013b1301.d
Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
Inj Date : 03-FEB-2010 12:40
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091216-54
Misc Info : |1254
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 05-Feb-2010 09:47 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1		
4.316	4.316	0.000	3383977	1000.00	981	80.00- 120.00	100.00
4.455	4.455	0.000	3824713	1000.00	978	93.02- 133.02	113.02
4.784	4.784	0.000	5432437	1000.00	988	140.53- 180.53	160.53
4.946	4.946	0.000	3945818	1000.00	984	96.60- 136.60	116.60
5.072	5.072	0.000	2466733	1000.00	968	52.89- 92.89	72.89
		Average of Peak Amounts =			980		

Data File: /chem/ecd8a.i/020310a.b/013b1301.d

Date : 03-FEB-2010 12:40

Client ID: AR125401

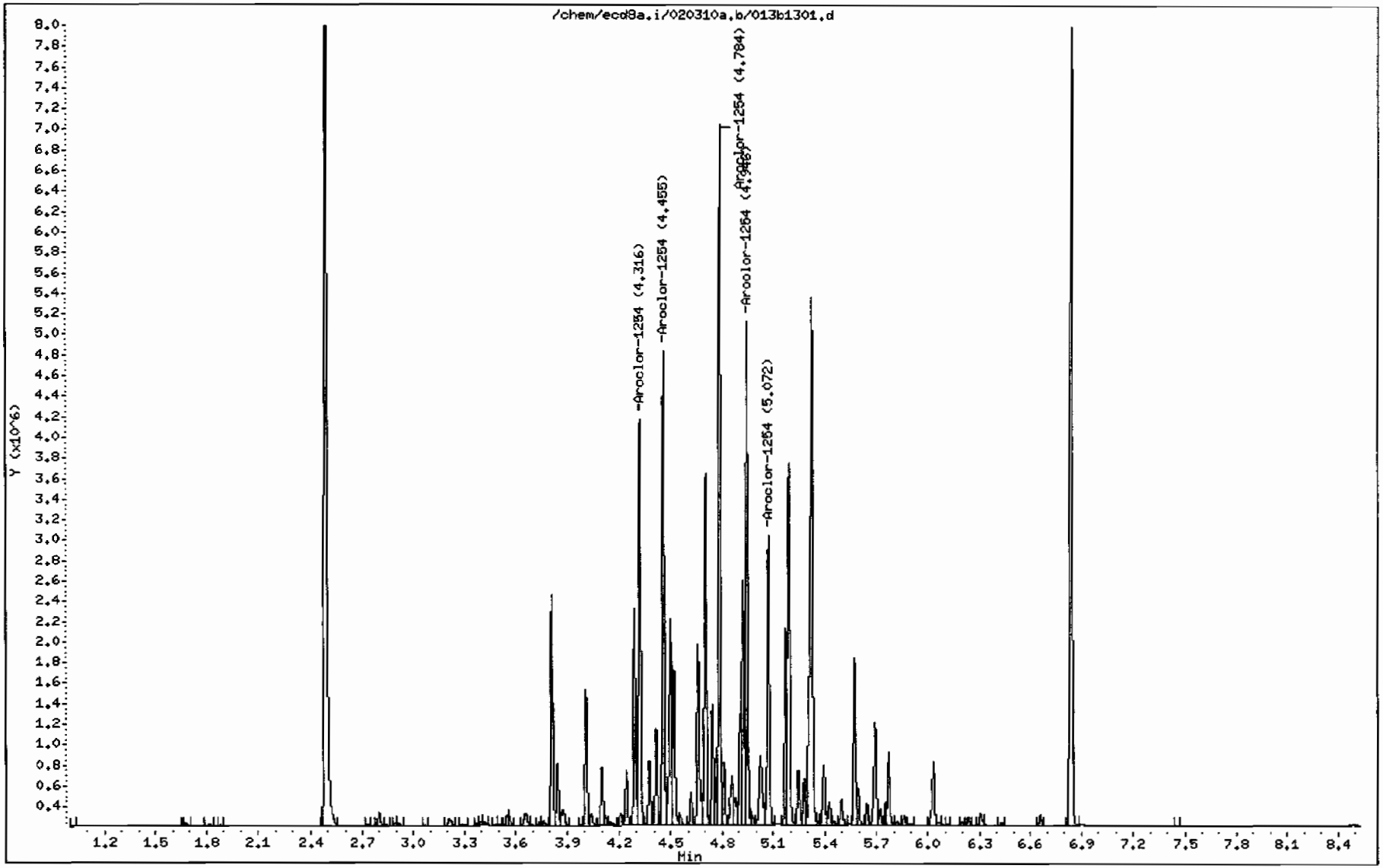
Sample Info: IWAR091216-54

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/019f1901.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 03-FEB-2010 13:55
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-42
Misc Info : |1242
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 03-Feb-2010 14:11 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 13:42 Cal File: 018f1801.d
Als bottle: 19 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		
2.814	2.814	0.000	3804197	1000.00	957	80.00- 120.00	100.00
3.165	3.165	0.000	4813012	1000.00	1000	106.52- 146.52	126.52
3.402	3.402	0.000	1755194	1000.00	972	26.14- 66.14	46.14
3.418	3.418	0.000	1836921	1000.00	972	28.29- 68.29	48.29
3.563	3.563	0.000	2616854	1000.00	989	48.79- 88.79	68.79
		Average of Peak Amounts =			979		

Data File: /chem/ecd8a.i/020310a.b/019f1901.d

Page 1

Date : 03-FEB-2010 13:55

Client ID: AR124201

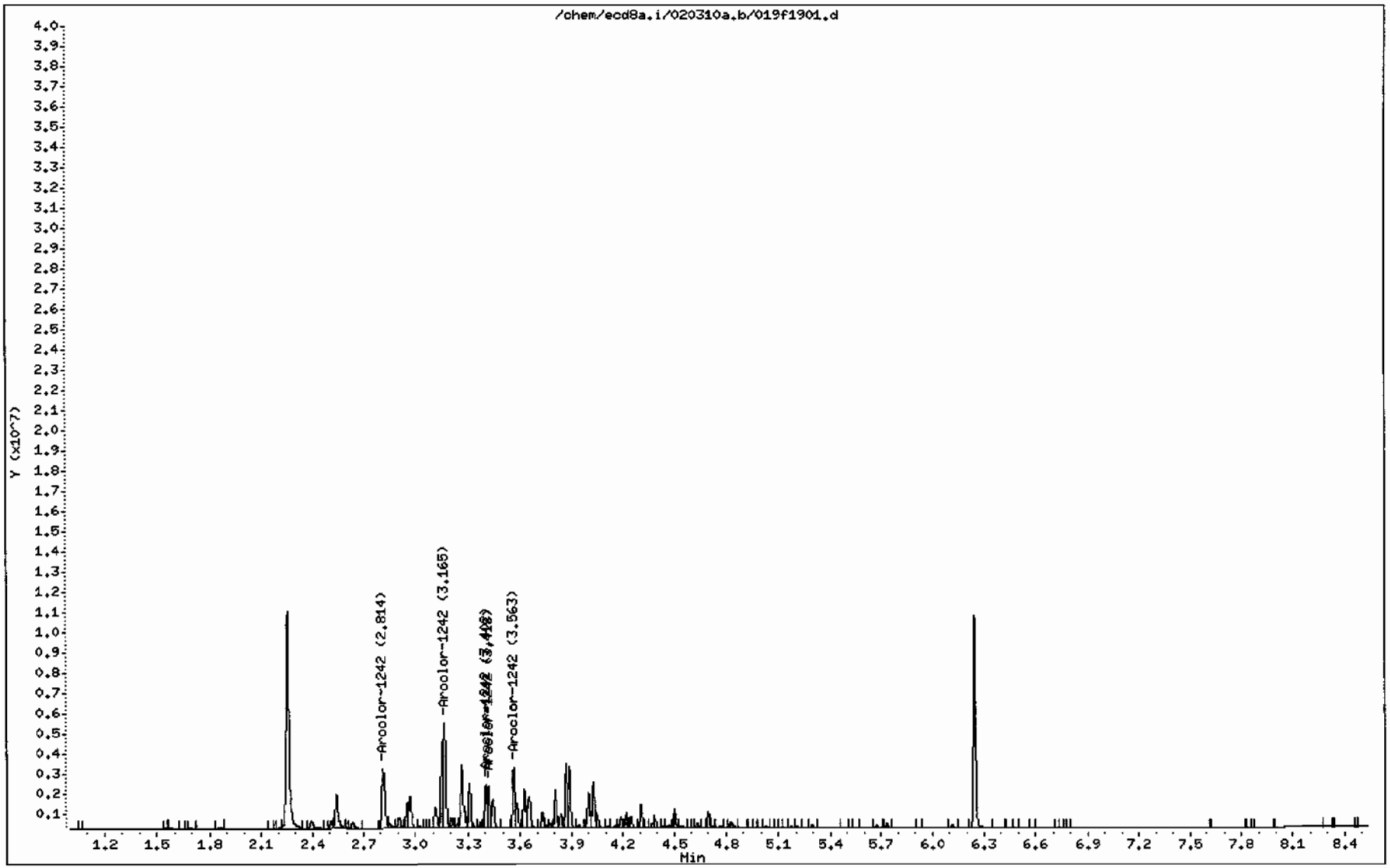
Instrument: ecd8a.i

Sample Info: IWAR091217-42

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/019b1901.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 03-FEB-2010 13:55
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-42
Misc Info : |1242
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 03-Feb-2010 14:11 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 13:42 Cal File: 018b1801.d
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
4 Aroclor-1242						CAS #: 53469-21-9		
3.209	3.209	0.000	2456147	1000.00	917	80.00- 120.00		100.00
3.563	3.563	0.000	2898645	1000.00	927	98.02- 138.02		118.02
3.662	3.662	0.000	1965823	1000.00	924	60.04- 100.04		80.04
4.009	4.009	0.000	1573004	1000.00	923	44.04- 84.04		64.04
4.098	4.098	0.000	1481878	1000.00	946	40.33- 80.33		60.33
		Average of Peak Amounts =			928			

Data File: /chem/ecd8a.i/020310a.b/019b1901.d

Page 1

Date : 03-FEB-2010 13:55

Client ID: AR124201

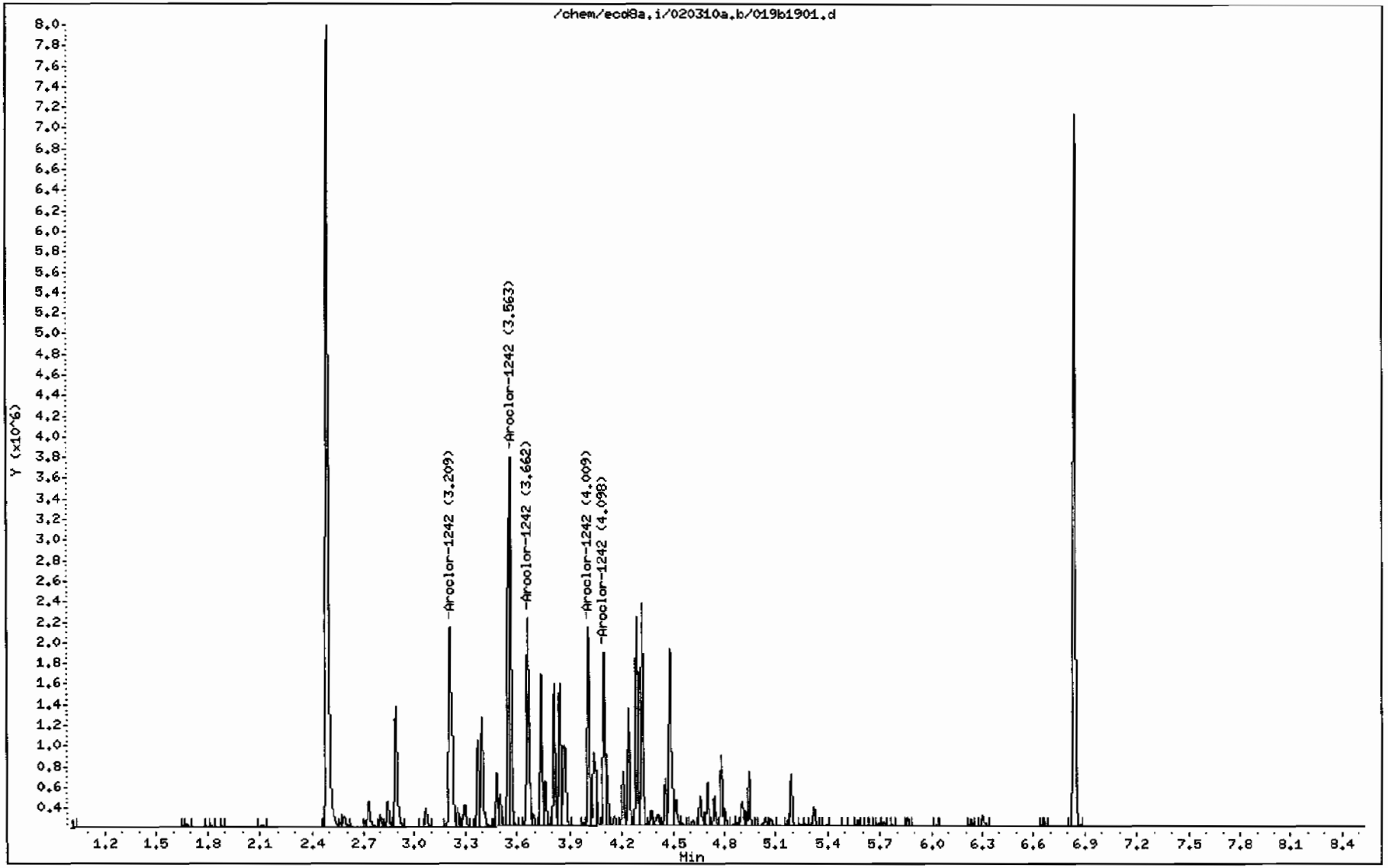
Instrument: ecd8a.i

Sample Info: IWAR091217-42

Operator: JAOC

Column phase: CLP2

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/026f2601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 03-FEB-2010 15:21
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-32
Misc Info : |1232
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 04-Feb-2010 07:01 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
2.542	2.542	0.000	2600507	1000.00	1000	80.00- 120.00	100.00
2.813	2.813	0.000	2260587	1000.00	1000	66.93- 106.93	86.93
3.309	3.309	0.000	1243474	1000.00	1000	27.82- 67.82	47.82
3.564	3.564	0.000	1478913	1000.00	1000	36.87- 76.87	56.87
3.625	3.625	0.000	922690	1000.00	1000	15.48- 55.48	35.48
Average of Peak Amounts =					1e+03		

Data File: /chem/ecd8a.i/020310a.b/026f2601.d

Date : 03-FEB-2010 15:21

Client ID: AR123201

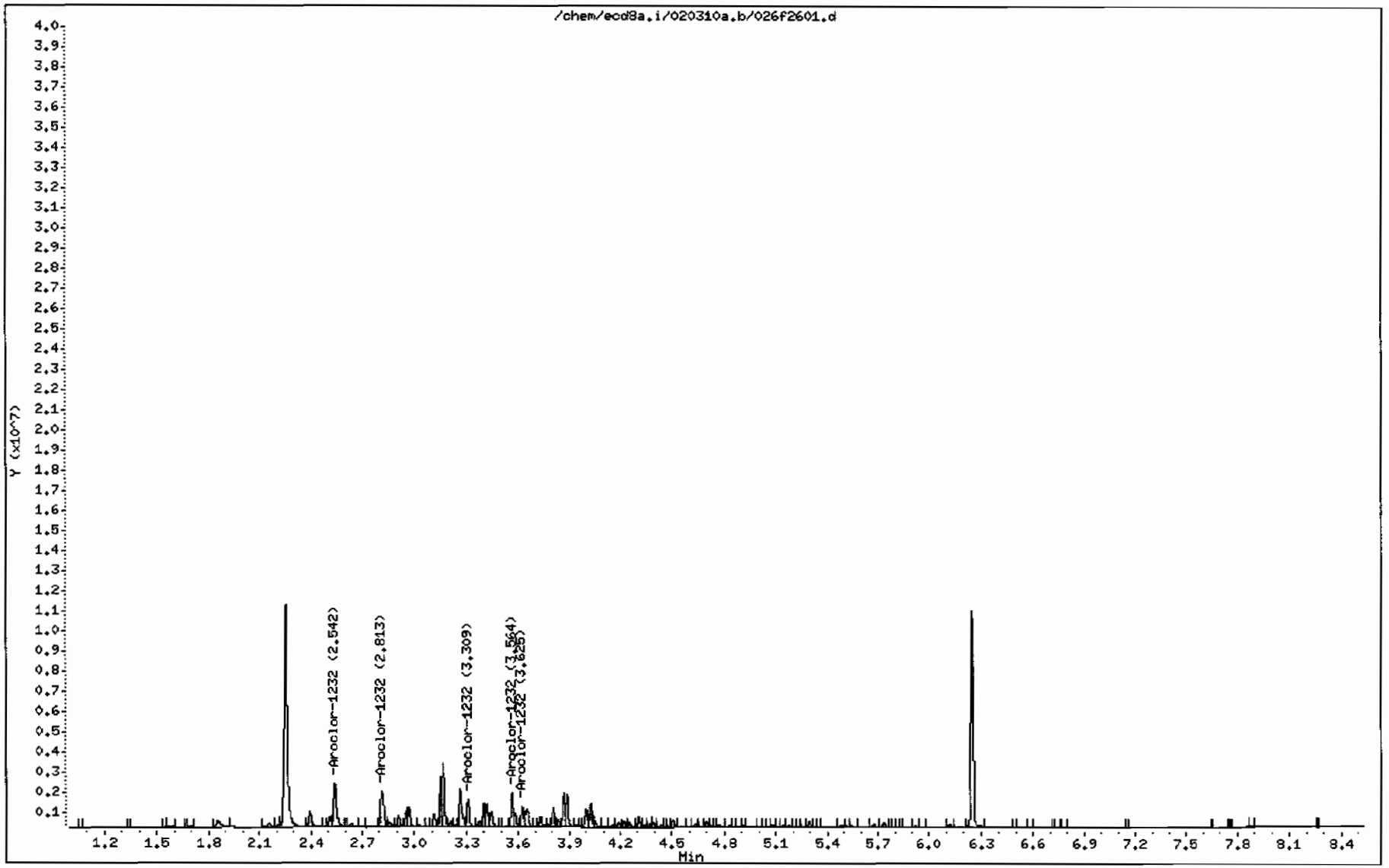
Sample Info: IWAR100104-32

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/026b2601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 03-FEB-2010 15:21
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-32
Misc Info : |1232
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 04-Feb-2010 06:58 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
3 Aroclor-1232					CAS #: 11141-16-5			
3.209	3.209	0.000	1514867	1000.00	1000	80.00-	120.00	100.00
3.562	3.562	0.000	1744376	1000.00	1000	95.15-	135.15	115.15
3.661	3.661	0.000	1176499	1000.00	1000	57.66-	97.66	77.66
3.738	3.738	0.000	710092	1000.00	1000	26.87-	66.87	46.87
3.812	3.812	0.000	618175	1000.00	1000	20.81-	60.81	40.81
Average of Peak Amounts =					1e+03			

Data File: /chem/ecd8a.i/020310a.b/026b2601.d

Date : 03-FEB-2010 15:21

Client ID: AR123201

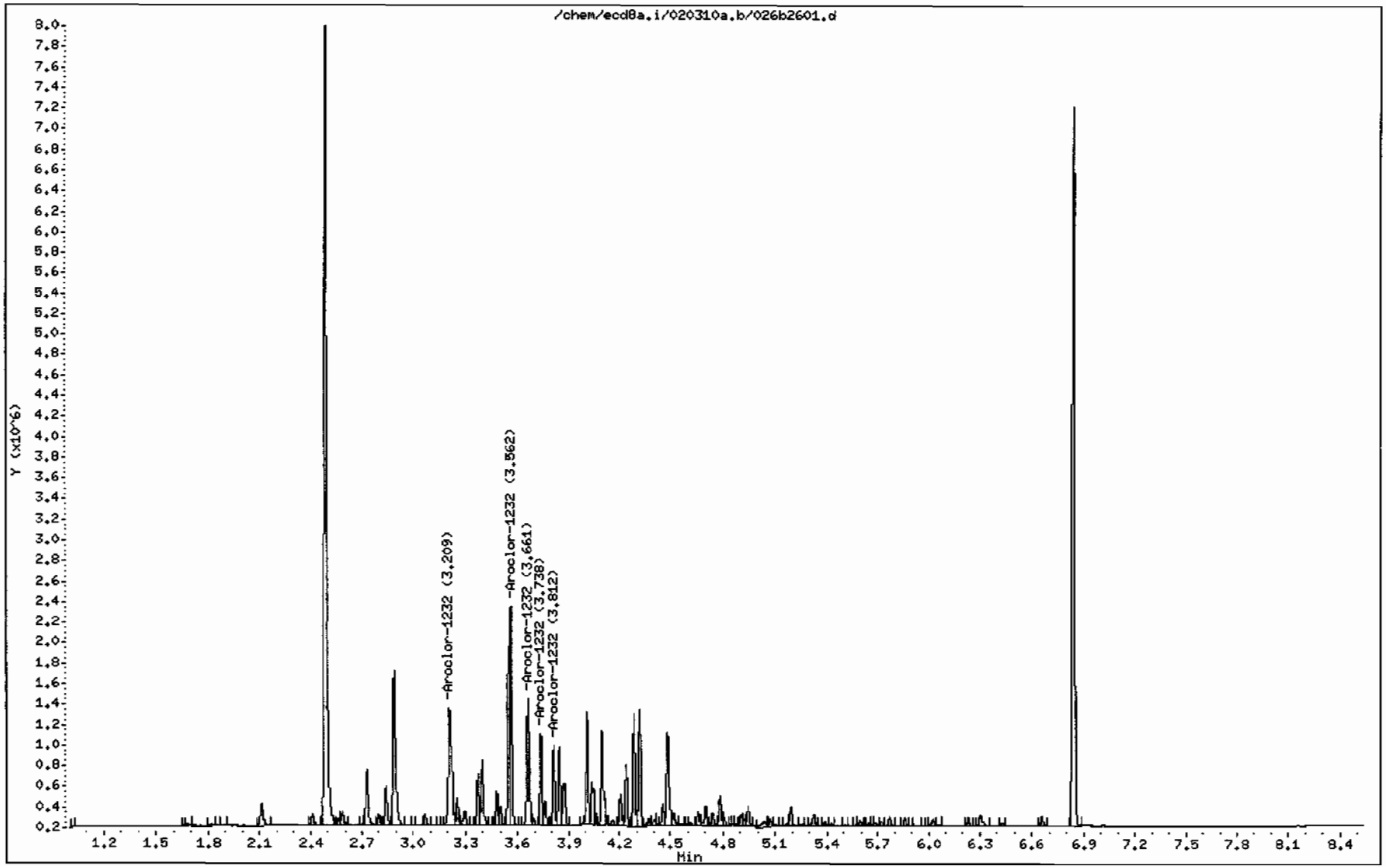
Sample Info: IWAR100104-32

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/027f2701.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 03-FEB-2010 15:34
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-21
Misc Info : |1221
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 04-Feb-2010 07:01 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
2 Aroclor-1221						CAS #: 11104-28-2		
1.857	1.857	0.000	1099987	1000.00	1000	80.00- 120.00		100.00
2.397	2.397	0.000	1459820	1000.00	1000	112.71- 152.71		132.71
2.542	2.542	0.000	3385283	1000.00	1000	287.76- 327.76		307.76
		Average of Peak Amounts =			1e+03			

Data File: /chem/ecd8a.i/020310a.b/027f2701.d

Date : 03-FEB-2010 15:34

Client ID: AR122101

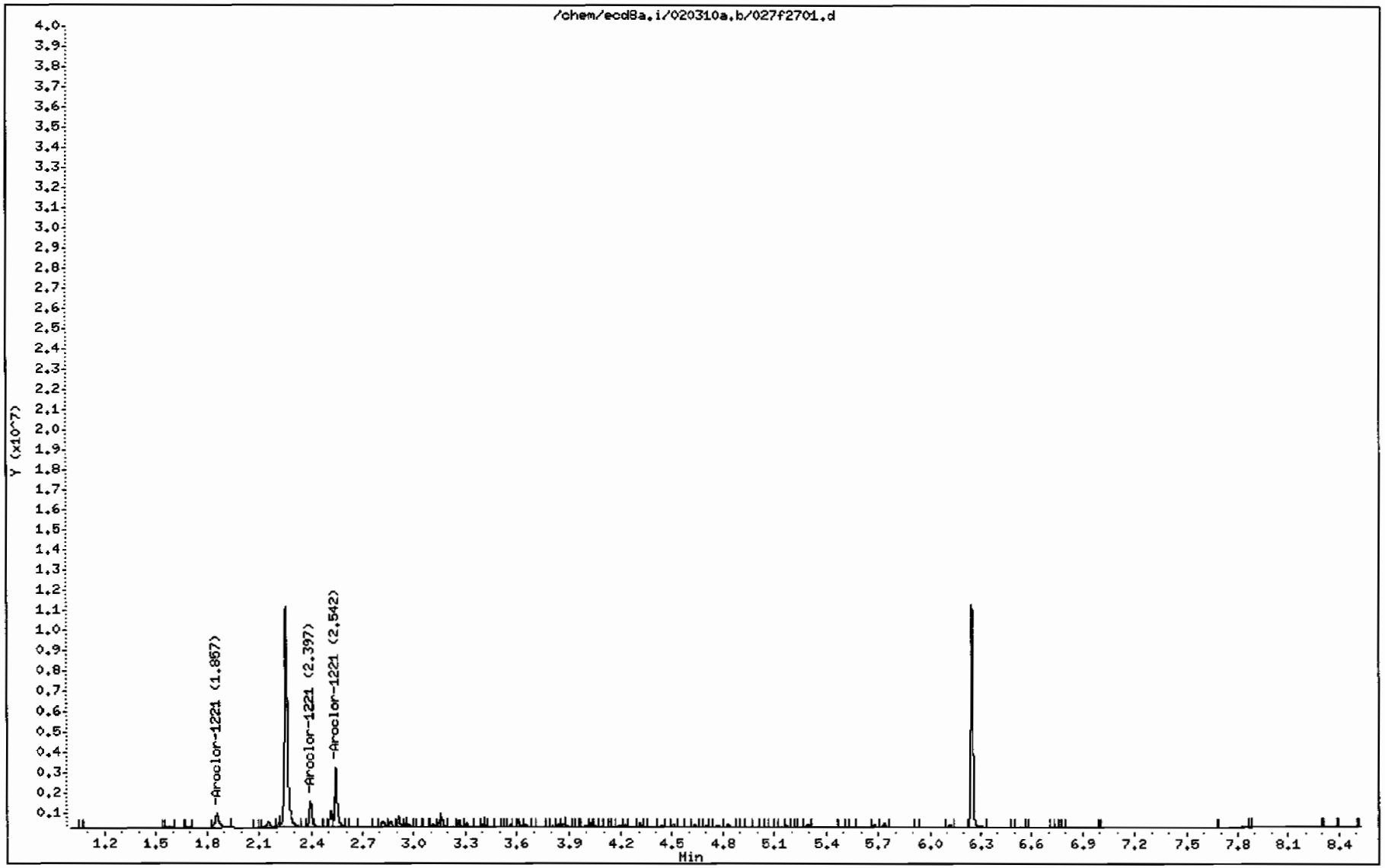
Instrument: ecd8a.i

Sample Info: !WAR100104-21

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/027b2701.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 03-FEB-2010 15:34
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-21
Misc Info : |1221
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 04-Feb-2010 06:58 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO
2 Aroclor-1221						CAS #: 11104-28-2		
2.730	2.730	0.000	894889	1000.00	1000	80.00- 120.00		100.00
2.842	2.842	0.000	556917	1000.00	1000	42.23- 82.23		62.23
2.891	2.891	0.000	2060292	1000.00	1000	210.23- 250.23		230.23
		Average of Peak Amounts =			1e+03			

Data File: /chem/ecd8a.i/020310a.b/027b2701.d

Page 1

Date : 03-FEB-2010 15:34

Client ID: AR122101

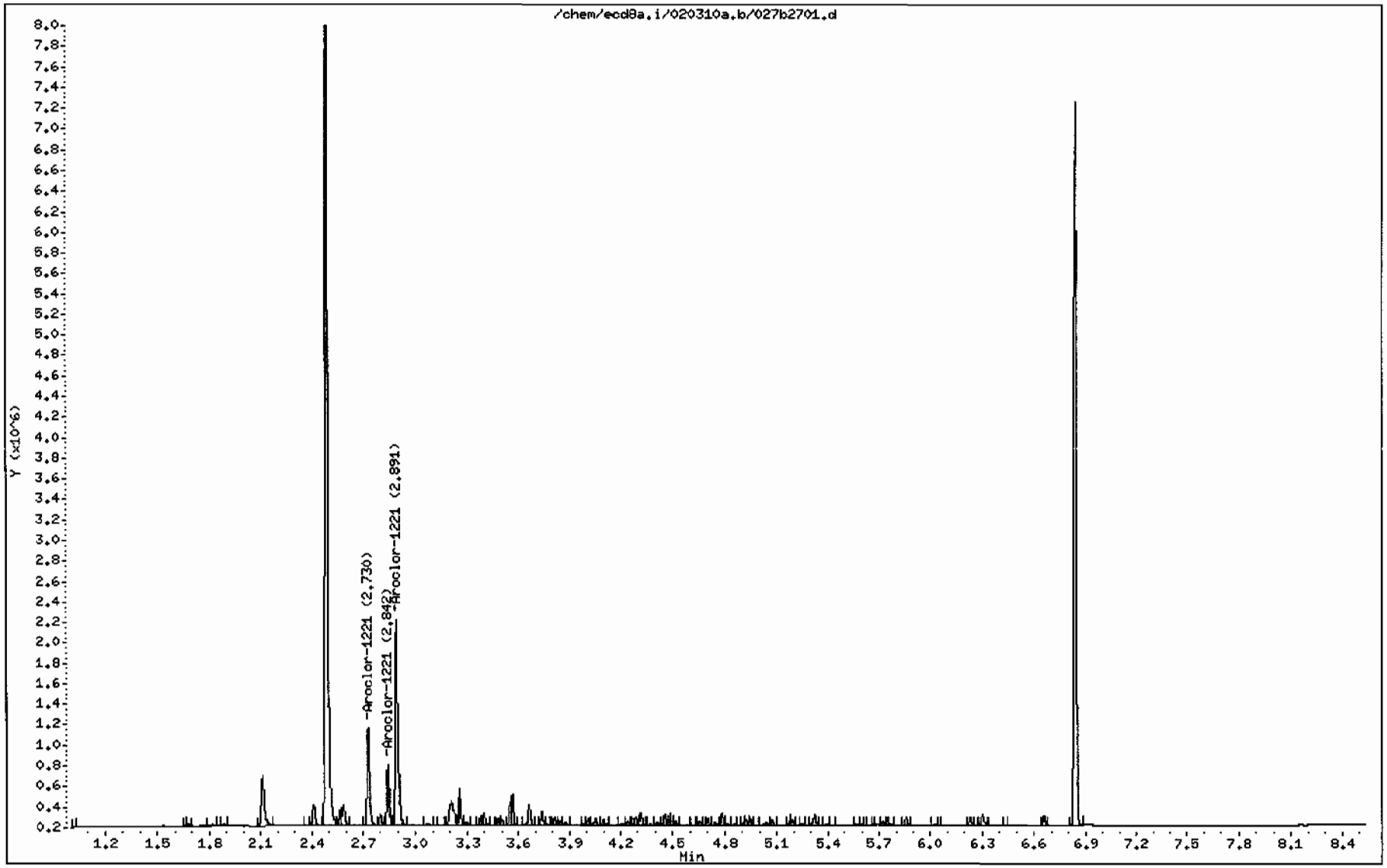
Instrument: ecd8a.i

Sample Info: IWAR100104-21

Operator: JAOC

Column phase: CLP2

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/035f3501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 03-FEB-2010 17:13
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-48
Misc Info : |1248
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 04-Feb-2010 07:01 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:00 Cal File: 034f3401.d
Als bottle: 35 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		
3.151	3.151	0.000	2560109	1000.00	856	80.00- 120.00		100.00
3.401	3.401	0.000	3322762	1000.00	869	109.79- 149.79		129.79
3.564	3.564	0.000	4389330	1000.00	878	151.45- 191.45		171.45
3.870	3.870	0.000	5328031	1000.00	890	188.12- 228.12		208.12
4.029	4.029	0.000	4200914	1000.00	870	144.09- 184.09		164.09
		Average of Peak Amounts =			873			

Data File: /chem/ecd8a.i/020310a.b/035f3501.d

Date : 03-FEB-2010 17:13

Client ID: AR124801

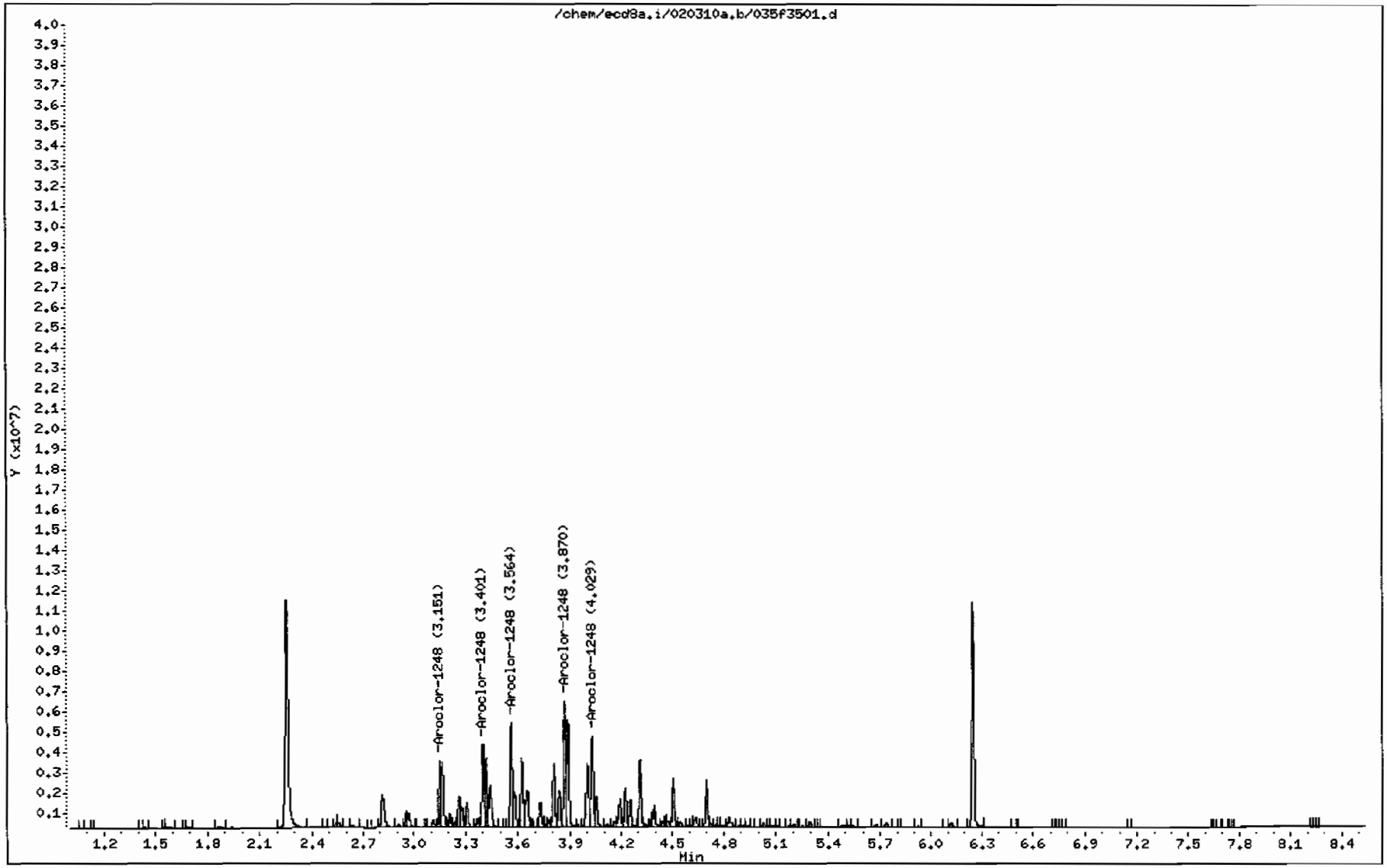
Sample Info: IWAR091217-48

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/035b3501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 03-FEB-2010 17:13
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-48
Misc Info : |1248
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 04-Feb-2010 06:58 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:00 Cal File: 034b3401.d
Als bottle: 35 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		
3.661	3.661	0.000	1238028	1000.00	868	80.00- 120.00		100.00
3.813	3.813	0.000	2242985	1000.00	909	161.17- 201.17		181.17
4.010	4.010	0.000	2846238	1000.00	921	209.90- 249.90		229.90
4.287	4.287	0.000	3333868	1000.00	914	249.29- 289.29		269.29
4.320	4.320	0.000	3619424	1000.00	904	272.35- 312.35		292.35
		Average of Peak Amounts =			903			

Data File: /chem/ecd8a.i/020310a.b/035b3501.d

Date : 03-FEB-2010 17:13

Client ID: AR124801

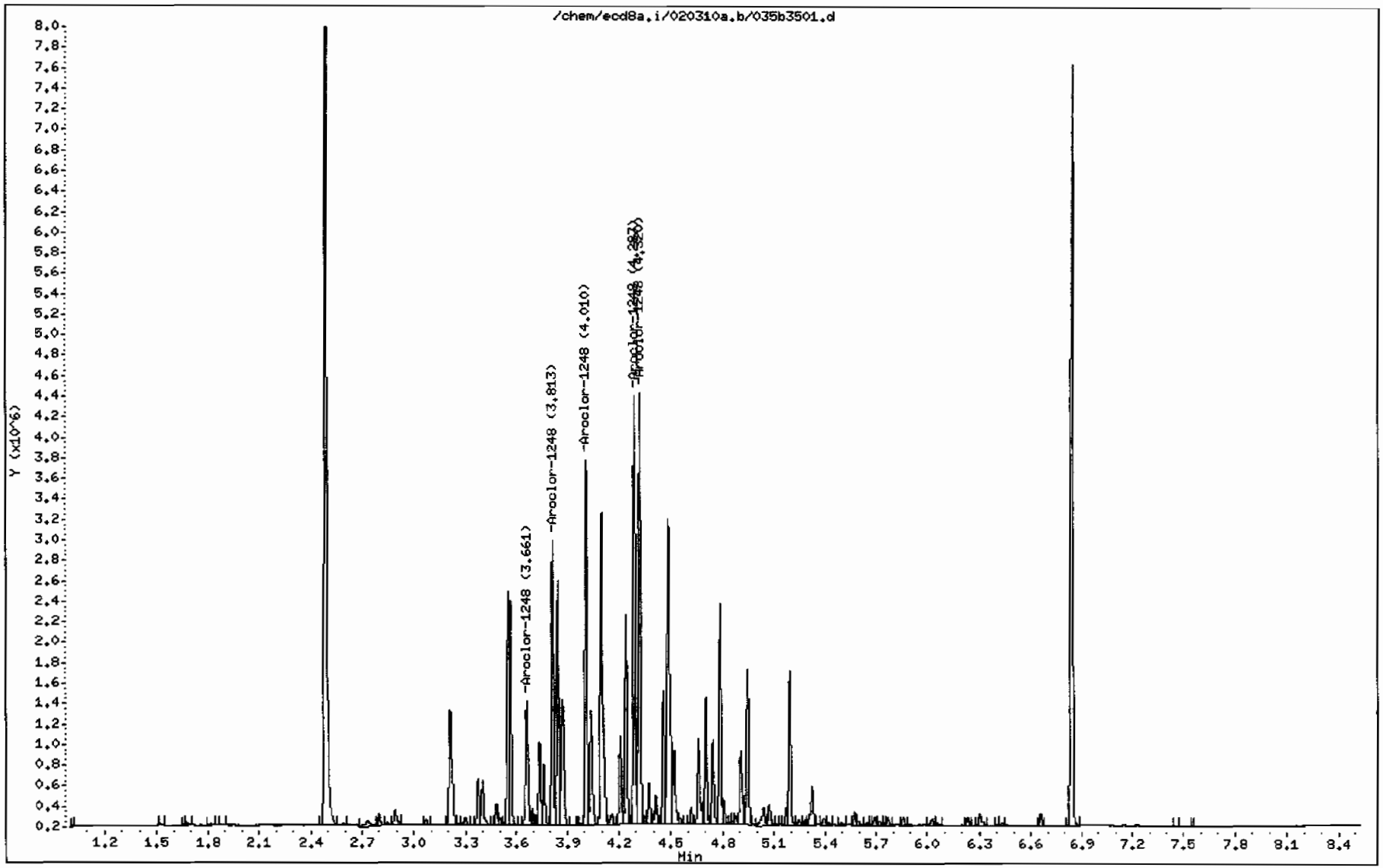
Sample Info: IWAR091217-48

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/054f5401.d
Lab Smp Id: WAR100203-60 03 Client Smp ID: AR166003
Inj Date : 03-FEB-2010 21:08
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100203-60 03
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 04-Feb-2010 07:01 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 54 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.256	2.257	-0.001	13483364	100.000	103	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.247	6.248	-0.001	9851354	100.000	98.5	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.814	2.814	0.000	4430815	1000.00	950	80.00- 120.00	100.00
3.166	3.166	0.000	5538730	1000.00	960	105.75- 145.75	125.00
3.309	3.309	0.000	2274818	1000.00	927	32.69- 72.69	51.34
3.402	3.402	0.000	1973855	1000.00	898	25.81- 65.81	44.55
3.563	3.564	-0.001	2868130	1000.00	913	46.60- 86.60	64.73
Average of Peak Amounts =					930		
7 Aroclor-1260					CAS #: 11096-82-5		
4.437	4.438	-0.001	6358628	1000.00	944	80.00- 120.00	100.00
4.633	4.634	-0.001	9555819	1000.00	931	135.59- 175.59	150.28
4.908	4.908	0.000	5614137	1000.00	916	68.69- 108.69	88.29
5.080	5.081	-0.001	5990813	1000.00	938	74.13- 114.13	94.22
5.492	5.493	-0.001	6779117	1000.00	988	85.62- 125.62	106.61
Average of Peak Amounts =					943		

Data File: /chem/ecd8a.i/020310a.b/054f5401.d

Date : 03-FEB-2010 21:08

Client ID: AR166003

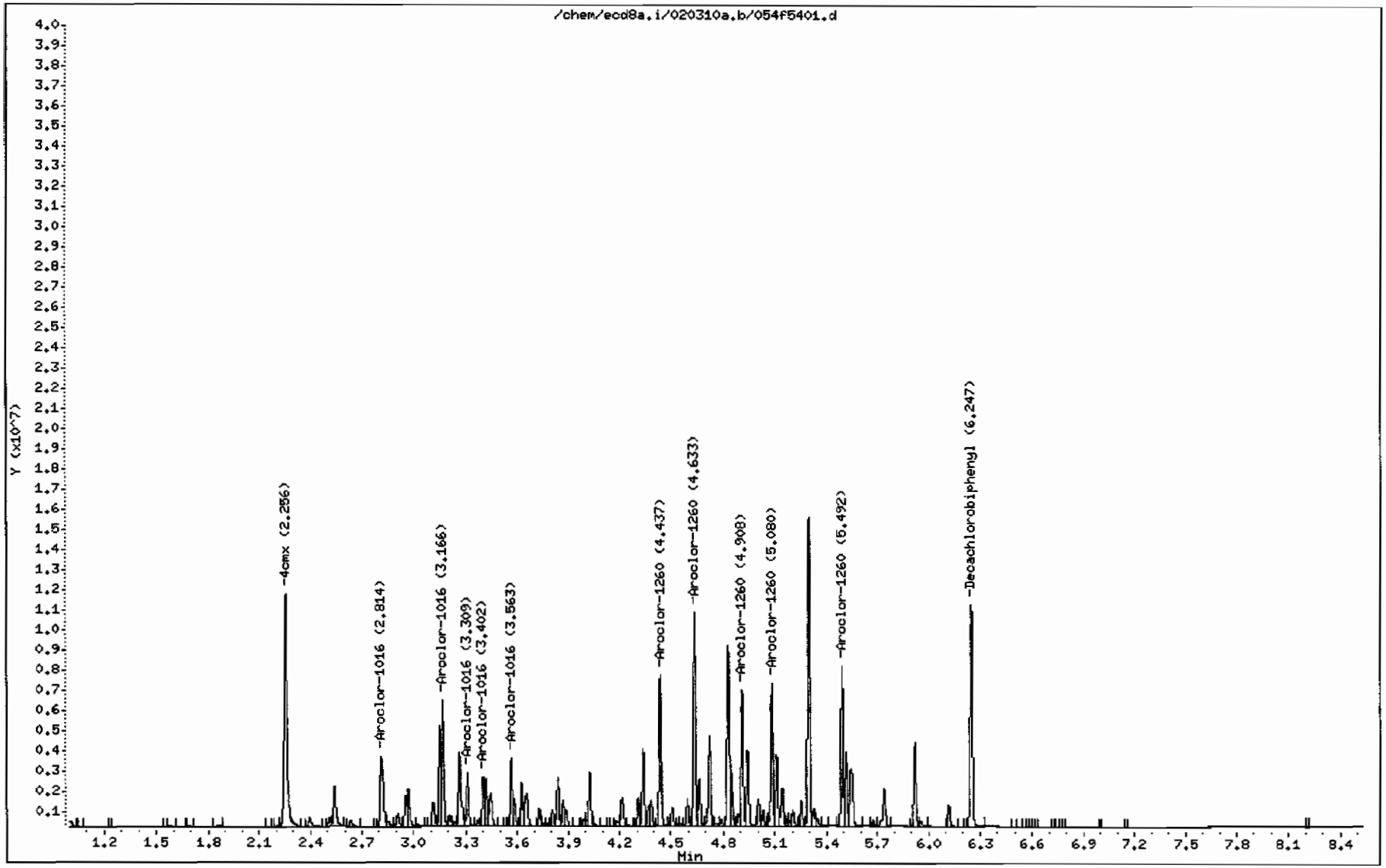
Sample Info: IWAR100203-60 03

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/054b5401.d
Lab Smp Id: WAR100203-60 03 Client Smp ID: AR166003
Inj Date : 03-FEB-2010 21:08
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100203-60 03
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 04-Feb-2010 06:58 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 54 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.489	2.490	-0.001	9199463	100.000	106	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.839	6.840	-0.001	6592313	100.000	102	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.562	3.563	-0.001	3977789	1000.00	1060	80.00- 120.00	100.00
3.662	3.663	-0.001	2548789	1000.00	1020	45.18- 85.18	64.08
3.737	3.738	-0.001	1551142	1000.00	1020	19.90- 59.90	39.00
3.812	3.813	-0.001	1491735	1000.00	999	18.28- 58.28	37.50
4.009	4.010	-0.001	2077623	1000.00	1020	33.27- 73.27	52.23
Average of Peak Amounts =					1.02e+03		
7 Aroclor-1260					CAS #: 11096-82-5		
4.922	4.923	-0.001	4494587	1000.00	1100	80.00- 120.00	100.00
5.071	5.073	-0.002	5425429	1000.00	1090	101.67- 141.67	120.71
5.387	5.388	-0.001	4143600	1000.00	1090	71.47- 111.47	92.19
5.595	5.596	-0.001	4240390	1000.00	1070	76.19- 116.19	94.34
6.027	6.027	0.000	6861458	1000.00	1100	134.43- 174.43	152.66
Average of Peak Amounts =					1.09e+03		

Data File: /chem/ecd8a.i/020310a.b/054b5401.d

Date : 03-FEB-2010 21:08

Client ID: AR166003

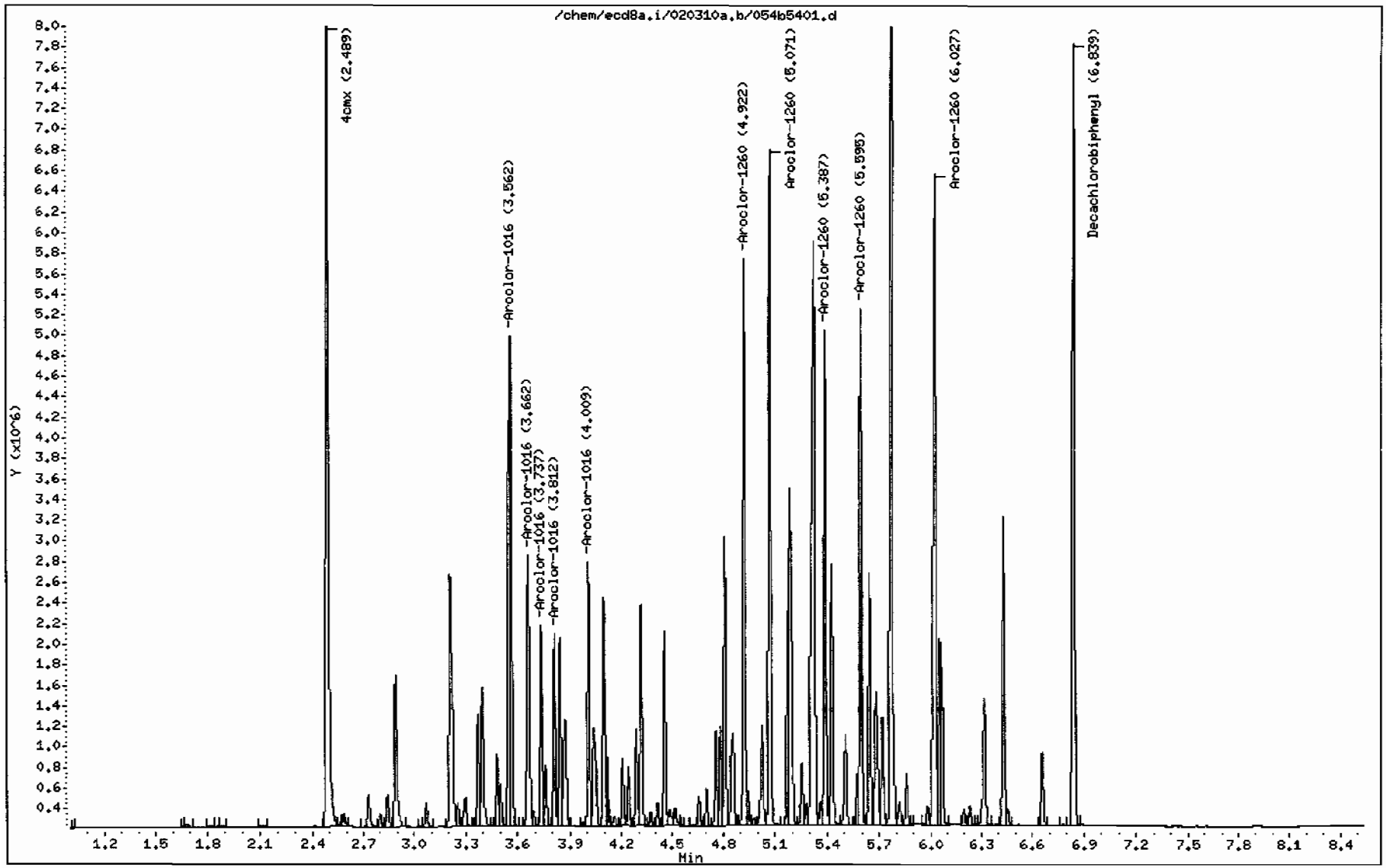
Sample Info: !WAR100203-60 03

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/059f5901.d
Lab Smp Id: WAR100203-60 04 Client Smp ID: AR166004
Inj Date : 03-FEB-2010 22:10
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100203-60 04
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-F-8082-020310a.m
Meth Date : 04-Feb-2010 07:01 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 59 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.255	2.257	-0.002	13466478	100.000	102	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.248	6.248	0.000	9547581	100.000	95.5	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.814	2.814	0.000	4437936	1000.00	951	80.00- 120.00	100.00
3.166	3.166	0.000	5723246	1000.00	992	105.75- 145.75	128.96
3.309	3.309	0.000	2401634	1000.00	978	32.69- 72.69	54.12
3.402	3.402	0.000	2086847	1000.00	949	25.81- 65.81	47.02
3.563	3.564	-0.001	3035368	1000.00	966	46.60- 86.60	68.40
Average of Peak Amounts =					967		
7 Aroclor-1260					CAS #: 11096-82-5		
4.438	4.438	0.000	6481791	1000.00	962	80.00- 120.00	100.00
4.633	4.634	-0.001	9824814	1000.00	958	135.59- 175.59	151.58
4.908	4.908	0.000	5815368	1000.00	949	68.69- 108.69	89.72
5.080	5.081	-0.001	6083821	1000.00	953	74.13- 114.13	93.86
5.491	5.493	-0.002	6826367	1000.00	995	85.62- 125.62	105.32
Average of Peak Amounts =					963		

Data File: /chem/ecd8a.i/020310a.b/059f5901.d

Date : 03-FEB-2010 22:10

Client ID: AR166004

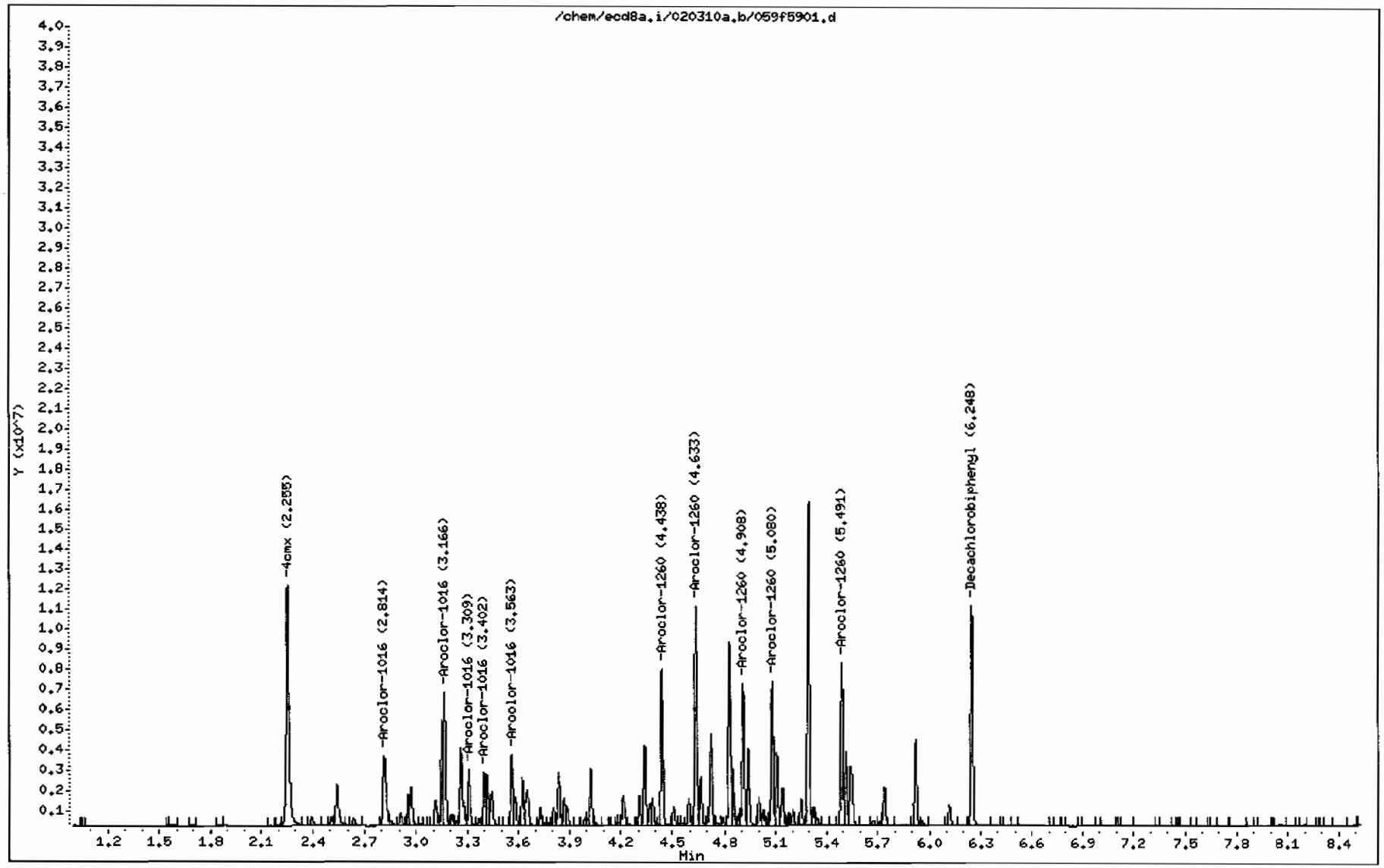
Sample Info: IWAR100203-60 04

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020310a.b/059b5901.d
Lab Smp Id: WAR100203-60 04 Client Smp ID: AR166004
Inj Date : 03-FEB-2010 22:10
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100203-60 04
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/020310a.b/ECD8-B-8082-020310a.m
Meth Date : 04-Feb-2010 06:58 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 59 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.489	2.490	-0.001	9374012	100.000	108	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.838	6.840	-0.002	6566140	100.000	101	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.563	3.563	0.000	3983951	1000.00	1060	80.00- 120.00	100.00
3.662	3.663	-0.001	2580314	1000.00	1030	45.18- 85.18	64.77
3.738	3.738	0.000	1595963	1000.00	1050	19.90- 59.90	40.06
3.813	3.813	0.000	1528980	1000.00	1020	18.28- 58.28	38.38
4.009	4.010	-0.001	2125198	1000.00	1040	33.27- 73.27	53.34
Average of Peak Amounts =					1.04e+03		
7 Aroclor-1260					CAS #: 11096-82-5		
4.923	4.923	0.000	4540151	1000.00	1110	80.00- 120.00	100.00
5.071	5.073	-0.002	5546194	1000.00	1120	101.67- 141.67	122.16
5.388	5.388	0.000	4197430	1000.00	1110	71.47- 111.47	92.45
5.594	5.596	-0.002	4385015	1000.00	1110	76.19- 116.19	96.58
6.026	6.027	-0.001	6935866	1000.00	1110	134.43- 174.43	152.77
Average of Peak Amounts =					1.11e+03		

Data File: /chem/ecd8a.i/020310a.b/059b5901.d

Date : 03-FEB-2010 22:10

Client ID: AR166004

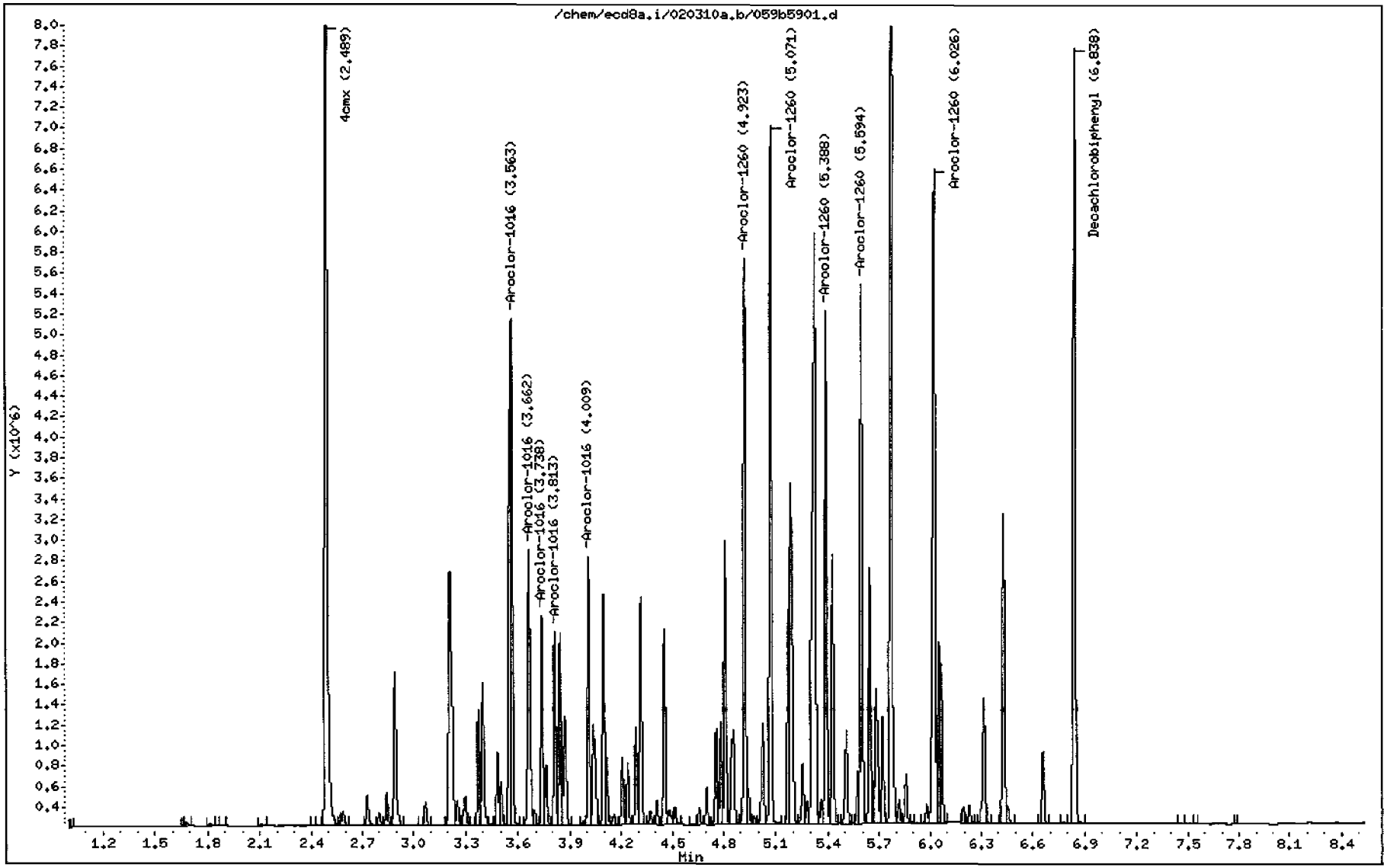
Sample Info: !WAR100203-60 04

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 01/21/10 01/21/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.26 DCB: 6.25

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	01/21/10	0836	2.26	6.26
02	ZZZZZ	ZZZZZ	01/21/10	0848	2.26	6.25
03	AR124801	WAR091217-48	01/21/10	0919		
04	AR123201	WAR100104-32	01/21/10	0931		
05	AR166001	WAR100121-01	01/21/10	0943	2.26	6.25
06	AR166002	WAR100121-02	01/21/10	0956	2.26	6.25
07	AR166003	WAR100121-03	01/21/10	1008	2.26	6.25
08	AR166004	WAR100121-04	01/21/10	1021	2.26	6.25
09	AR166005	WAR100104-01	01/21/10	1033	2.26	6.25
10	AR166001	WAR100104-60	01/21/10	1045	2.26	6.25
11	DDTANALOGSTD	WAR091219-DD	01/21/10	1058		
12	PIBLK02	WAR091130-99	01/21/10	1110	2.26	6.25
13	ZZZZZ	ZZZZZ	01/21/10	1123	2.26	6.25
14	ZZZZZ	ZZZZZ	01/21/10	1135	2.26	6.25
15	ZZZZZ	ZZZZZ	01/21/10	1148	2.26	6.25
16	ZZZZZ	ZZZZZ	01/21/10	1200	2.26	6.25
17	ZZZZZ	ZZZZZ	01/21/10	1212	2.26	6.25
18	ZZZZZ	ZZZZZ	01/21/10	1225	2.26	6.25
19	ZZZZZ	ZZZZZ	01/21/10	1237	2.26	6.25
20	ZZZZZ	ZZZZZ	01/21/10	1250	2.26	6.25
21	ZZZZZ	ZZZZZ	01/21/10	1302	2.26	6.25
22	ZZZZZ	ZZZZZ	01/21/10	1314	2.26	6.25
23	AR166002	WAR100104-60	01/21/10	1327	2.26	6.25
24	PIBLK03	WAR091130-99	01/21/10	1339	2.26	6.25
25	ZZZZZ	ZZZZZ	01/21/10	1357	2.26	6.25
26	ZZZZZ	ZZZZZ	01/21/10	1409	2.26	6.25
27	ZZZZZ	ZZZZZ	01/21/10	1422	2.26	6.25
28	ZZZZZ	ZZZZZ	01/21/10	1434	2.26	6.25
29	AR166003	WAR100104-60	01/21/10	1447	2.26	6.25
30	PIBLK04	WAR091130-99	01/21/10	1459	2.26	6.25
31	ZZZZZ	ZZZZZ	01/21/10	1511	2.26	6.25
32	ZZZZZ	ZZZZZ	01/21/10	1524	2.26	6.25

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.: 10-1432

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 01/21/10 01/21/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49 DCB: 6.84

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	01/21/10	0836	2.49	6.85
02	ZZZZZ	ZZZZZ	01/21/10	0848	2.49	6.85
03	AR124801	WAR091217-48	01/21/10	0919		
04	AR123201	WAR100104-32	01/21/10	0931		
05	AR166001	WAR100121-01	01/21/10	0943	2.49	6.85
06	AR166002	WAR100121-02	01/21/10	0956	2.49	6.84
07	AR166003	WAR100121-03	01/21/10	1008	2.49	6.84
08	AR166004	WAR100121-04	01/21/10	1021	2.49	6.84
09	AR166005	WAR100104-01	01/21/10	1033	2.49	6.85
10	AR166001	WAR100104-60	01/21/10	1045	2.49	6.84
11	DDTANALOGSTD	WAR091219-DD	01/21/10	1058		
12	PIBLK02	WAR091130-99	01/21/10	1110	2.49	6.84
13	ZZZZZ	ZZZZZ	01/21/10	1123	2.49	6.84
14	ZZZZZ	ZZZZZ	01/21/10	1135	2.49	6.84
15	ZZZZZ	ZZZZZ	01/21/10	1148	2.49	6.84
16	ZZZZZ	ZZZZZ	01/21/10	1200	2.49	6.84
17	ZZZZZ	ZZZZZ	01/21/10	1212	2.49	6.84
18	ZZZZZ	ZZZZZ	01/21/10	1225	2.49	6.84
19	ZZZZZ	ZZZZZ	01/21/10	1237	2.49	6.84
20	ZZZZZ	ZZZZZ	01/21/10	1250	2.49	6.84
21	ZZZZZ	ZZZZZ	01/21/10	1302	2.49	6.84
22	ZZZZZ	ZZZZZ	01/21/10	1314	2.49	6.84
23	AR166002	WAR100104-60	01/21/10	1327	2.49	6.84
24	PIBLK03	WAR091130-99	01/21/10	1339	2.49	6.84
25	ZZZZZ	ZZZZZ	01/21/10	1357	2.49	6.85
26	ZZZZZ	ZZZZZ	01/21/10	1409	2.49	6.84
27	ZZZZZ	ZZZZZ	01/21/10	1422	2.49	6.84
28	ZZZZZ	ZZZZZ	01/21/10	1434	2.49	6.85
29	AR166003	WAR100104-60	01/21/10	1447	2.49	6.84
30	PIBLK04	WAR091130-99	01/21/10	1459	2.49	6.85
31	ZZZZZ	ZZZZZ	01/21/10	1511	2.49	6.84
32	ZZZZZ	ZZZZZ	01/21/10	1524	2.49	6.84

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.: 10-1432

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 01/21/10 01/21/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.26 DCB: 6.25

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	02/02/10	1153	2.26	6.25
02	ZZZZZ	ZZZZZ	02/02/10	1206	2.26	6.25
03	AR125401	WAR100201-54	02/02/10	1218		
04	AR124201	WAR091217-42	02/02/10	1230		
05	AR124801	WAR091217-48	02/02/10	1243		
06	AR166001	WAR100104-60	02/02/10	1255	2.26	6.25
07	AR123201	WAR100104-32	02/02/10	1308		
08	AR122101	WAR100104-21	02/02/10	1320		
09	AR126201	WAR100104-62	02/02/10	1332		
10	AR126801	WAR091107-68	02/02/10	1345		
11	DDTANALOGSTD	WAR091219-DD	02/02/10	1357		
12	PIBLK02	WAR091130-99	02/02/10	1410	2.26	6.25
13	ZZZZZ	ZZZZZ	02/02/10	1422	2.26	6.25
14	ZZZZZ	ZZZZZ	02/02/10	1434	2.26	6.25
15	ZZZZZ	ZZZZZ	02/02/10	1447	2.26	6.25
16	ZZZZZ	ZZZZZ	02/02/10	1459		
17	ZZZZZ	ZZZZZ	02/02/10	1512		
18	ZZZZZ	ZZZZZ	02/02/10	1524		
19	ZZZZZ	ZZZZZ	02/02/10	1536	2.26	6.25
20	ZZZZZ	ZZZZZ	02/02/10	1549	2.26	6.25
21	ZZZZZ	ZZZZZ	02/02/10	1601	2.26	6.25
22	ZZZZZ	ZZZZZ	02/02/10	1615	2.26	6.25
23	AR166002	WAR100104-60	02/02/10	1627	2.26	6.25
24	PIBLK03	WAR091130-99	02/02/10	1639	2.25	6.25
25	ZZZZZ	ZZZZZ	02/02/10	1652	2.26	6.25
26	ZZZZZ	ZZZZZ	02/02/10	1704	2.26	6.25
27	ZZZZZ	ZZZZZ	02/02/10	1716	2.26	6.25
28	ZZZZZ	ZZZZZ	02/02/10	1729	2.26	6.25
29	ZZZZZ	ZZZZZ	02/02/10	1741	2.26	6.25
30	AR166003	WAR100104-60	02/02/10	1754	2.25	6.25
31	PIBLK04	WAR091130-99	02/02/10	1806	2.25	6.25
32	PBLK01	1202029843	02/02/10	1818	2.25	6.25

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.

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.: 10-1432

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 01/21/10 01/21/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.26 DCB: 6.25

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PBLK01LCS	1202029844	02/02/10	1831	2.25	6.25
02	ZZZZZ	ZZZZZ	02/02/10	1843	2.25	6.25
03	ZZZZZ	ZZZZZ	02/02/10	1856	2.26	6.25
04	ZZZZZ	ZZZZZ	02/02/10	1908	2.26	6.25
05	ZZZZZ	ZZZZZ	02/02/10	1920	2.26	6.25
06	ZZZZZ	ZZZZZ	02/02/10	1933	2.26	6.25
07	ZZZZZ	ZZZZZ	02/02/10	1945	2.26	6.25
08	ZZZZZ	ZZZZZ	02/02/10	1958	2.26	6.25
09	ZZZZZ	ZZZZZ	02/02/10	2010	2.26	6.25
10	AR166004	WAR100104-60	02/02/10	2026	2.25	6.25
11	PIBLK05	WAR091130-99	02/02/10	2039	2.26	6.25
12	ZZZZZ	ZZZZZ	02/02/10	2051	2.26	6.25
13	ZZZZZ	ZZZZZ	02/02/10	2104	2.26	6.25
14	ZZZZZ	ZZZZZ	02/02/10	2116	2.26	6.25
15	ZZZZZ	ZZZZZ	02/02/10	2128	2.26	6.25
16	ZZZZZ	ZZZZZ	02/02/10	2141	2.26	6.25
17	RE15-10-7884	245686002	02/02/10	2153	2.26	6.25
18	RE15-10-8056	245686013	02/02/10	2206	2.26	6.25
19	RE15-10-8057	245686014	02/02/10	2218	2.26	6.25
20	AR166005	WAR100104-60	02/02/10	2234	2.25	6.25
21	PIBLK06	WAR091130-99	02/02/10	2247	2.26	6.25
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 01/21/10 01/21/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49 DCB: 6.84

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	02/02/10	1153	2.49	6.84
02	ZZZZZ	ZZZZZ	02/02/10	1206	2.49	6.84
03	AR125401	WAR100201-54	02/02/10	1218		
04	AR124201	WAR091217-42	02/02/10	1230		
05	AR124801	WAR091217-48	02/02/10	1243		
06	AR166001	WAR100104-60	02/02/10	1255	2.49	6.84
07	AR123201	WAR100104-32	02/02/10	1308		
08	AR122101	WAR100104-21	02/02/10	1320		
09	AR126201	WAR100104-62	02/02/10	1332		
10	AR126801	WAR091107-68	02/02/10	1345		
11	DDTANALOGSTD	WAR091219-DD	02/02/10	1357		
12	PIBLK02	WAR091130-99	02/02/10	1410	2.49	6.84
13	ZZZZZ	ZZZZZ	02/02/10	1422	2.49	6.84
14	ZZZZZ	ZZZZZ	02/02/10	1434	2.49	6.84
15	ZZZZZ	ZZZZZ	02/02/10	1447	2.49	6.84
16	ZZZZZ	ZZZZZ	02/02/10	1459		
17	ZZZZZ	ZZZZZ	02/02/10	1512		
18	ZZZZZ	ZZZZZ	02/02/10	1524		
19	ZZZZZ	ZZZZZ	02/02/10	1536	2.49	6.84
20	ZZZZZ	ZZZZZ	02/02/10	1549	2.49	6.84
21	ZZZZZ	ZZZZZ	02/02/10	1601	2.49	6.84
22	ZZZZZ	ZZZZZ	02/02/10	1615	2.49	6.84
23	AR166002	WAR100104-60	02/02/10	1627	2.49	6.84
24	PIBLK03	WAR091130-99	02/02/10	1639	2.49	6.84
25	ZZZZZ	ZZZZZ	02/02/10	1652	2.49	6.84
26	ZZZZZ	ZZZZZ	02/02/10	1704	2.49	6.84
27	ZZZZZ	ZZZZZ	02/02/10	1716	2.49	6.84
28	ZZZZZ	ZZZZZ	02/02/10	1729	2.49	6.84
29	ZZZZZ	ZZZZZ	02/02/10	1741	2.49	6.84
30	AR166003	WAR100104-60	02/02/10	1754	2.49	6.84
31	PIBLK04	WAR091130-99	02/02/10	1806	2.49	6.84
32	PBLK01	1202029843	02/02/10	1818	2.49	6.84

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.

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.: 10-1432

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 01/21/10 01/21/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49 DCB: 6.84

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PBLK01LCS	1202029844	02/02/10	1831	2.49	6.84
02	ZZZZZ	ZZZZZ	02/02/10	1843	2.49	6.84
03	ZZZZZ	ZZZZZ	02/02/10	1856	2.49	6.84
04	ZZZZZ	ZZZZZ	02/02/10	1908	2.49	6.84
05	ZZZZZ	ZZZZZ	02/02/10	1920	2.49	6.84
06	ZZZZZ	ZZZZZ	02/02/10	1933	2.49	6.84
07	ZZZZZ	ZZZZZ	02/02/10	1945	2.49	6.84
08	ZZZZZ	ZZZZZ	02/02/10	1958	2.49	6.84
09	ZZZZZ	ZZZZZ	02/02/10	2010	2.49	6.84
10	AR166004	WAR100104-60	02/02/10	2026	2.49	6.84
11	PIBLK05	WAR091130-99	02/02/10	2039	2.49	6.84
12	ZZZZZ	ZZZZZ	02/02/10	2051	2.49	6.84
13	ZZZZZ	ZZZZZ	02/02/10	2104	2.49	6.84
14	ZZZZZ	ZZZZZ	02/02/10	2116	2.49	6.84
15	ZZZZZ	ZZZZZ	02/02/10	2128	2.49	6.84
16	ZZZZZ	ZZZZZ	02/02/10	2141	2.49	6.84
17	RE15-10-7884	245686002	02/02/10	2153	2.49	6.84
18	RE15-10-8056	245686013	02/02/10	2206	2.49	6.84
19	RE15-10-8057	245686014	02/02/10	2218	2.49	6.84
20	AR166005	WAR100104-60	02/02/10	2234	2.49	6.84
21	PIBLK06	WAR091130-99	02/02/10	2247	2.49	6.84
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1432

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.26 DCB: 6.25

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	02/03/10	1012	2.25	6.24
02	AR166001	WAR100203-01	02/03/10	1024	2.26	6.25
03	AR166002	WAR100203-02	02/03/10	1037	2.26	6.25
04	AR166003	WAR100203-03	02/03/10	1049	2.26	6.25
05	AR166004	WAR100203-04	02/03/10	1101	2.26	6.25
06	AR166005	IAR100104-01	02/03/10	1114	2.26	6.25
07	AR166001	WAR100203-60	02/03/10	1126	2.26	6.25
08	AR125401	WAR100203-05	02/03/10	1139		
09	AR125402	WAR100203-06	02/03/10	1151		
10	AR125403	WAR100203-07	02/03/10	1203		
11	AR125404	WAR100203-08	02/03/10	1216		
12	AR125405	IAR091027-01	02/03/10	1228		
13	AR125401	WAR091216-54	02/03/10	1240		
14	AR124201	WAR100203-09	02/03/10	1253		
15	AR124202	WAR100203-10	02/03/10	1305		
16	AR124203	WAR100203-11	02/03/10	1318		
17	AR124204	WAR100203-12	02/03/10	1330		
18	AR124205	IAR091111-01	02/03/10	1342		
19	AR124201	WAR091217-42	02/03/10	1355		
20	AR124801	WAR100203-13	02/03/10	1407		
21	AR124802	WAR100203-14	02/03/10	1419		
22	AR124803	WAR100203-15	02/03/10	1432		
23	AR124804	WAR100203-16	02/03/10	1444		
24	AR124805	IAR091027-02	02/03/10	1457		
25	AR124801	WAR091217-48	02/03/10	1509		
26	AR123201	WAR100104-32	02/03/10	1521		
27	AR122101	WAR100104-21	02/03/10	1534		
28	AR126201	WAR100203-17	02/03/10	1546		
29	AR126202	WAR100203-18	02/03/10	1558		
30	AR126203	WAR100203-19	02/03/10	1611		
31	AR126204	WAR100203-20	02/03/10	1623		
32	AR126205	IAR100104-04	02/03/10	1636		

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.: 10-1432

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.26 DCB: 6.25

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	AR126201	WAR100104-62	02/03/10	1648				
02	AR126801	WAR091107-68	02/03/10	1700				
03	AR124801	WAR091217-48	02/03/10	1713				
04	DDTANALOGSTD	WAR091219-DD	02/03/10	1725				
05	PIBLK02	WAR091130-99	02/03/10	1738	2.26		6.25	
06	ZZZZZ	ZZZZZ	02/03/10	1750	2.26		6.25	
07	ZZZZZ	ZZZZZ	02/03/10	1802	2.26		6.25	
08	ZZZZZ	ZZZZZ	02/03/10	1815	2.26		6.25	
09	ZZZZZ	ZZZZZ	02/03/10	1827	2.26		6.25	
10	ZZZZZ	ZZZZZ	02/03/10	1839	2.26		6.25	
11	ZZZZZ	ZZZZZ	02/03/10	1852	2.26		6.25	
12	ZZZZZ	ZZZZZ	02/03/10	1904	2.26		6.25	
13	ZZZZZ	ZZZZZ	02/03/10	1916	2.26		6.25	
14	ZZZZZ	ZZZZZ	02/03/10	1929	2.26		6.25	
15	ZZZZZ	ZZZZZ	02/03/10	1941	2.26		6.25	
16	AR166002	WAR100203-60	02/03/10	1954	2.26		6.25	
17	PIBLK03	WAR091130-99	02/03/10	2006	2.26		6.25	
18	ZZZZZ	ZZZZZ	02/03/10	2018	2.26		6.25	
19	ZZZZZ	ZZZZZ	02/03/10	2031	2.26		6.25	
20	ZZZZZ	ZZZZZ	02/03/10	2043	2.26		6.25	
21	ZZZZZ	ZZZZZ	02/03/10	2055	2.26		6.25	
22	AR166003	WAR100203-60	02/03/10	2108	2.26		6.25	
23	PIBLK04	WAR091130-99	02/03/10	2120	2.26		6.25	
24	ZZZZZ	ZZZZZ	02/03/10	2133	2.26		6.25	
25	ZZZZZ	ZZZZZ	02/03/10	2145	2.26		6.25	
26	RE15-10-7883	245686001	02/03/10	2157	2.26		6.25	
27	AR166004	WAR100203-60	02/03/10	2210	2.26		6.25	
28	PIBLK05	WAR091130-99	02/03/10	2222	2.26		6.25	
29	ZZZZZ	ZZZZZ	02/03/10	2234	2.26		6.25	
30	ZZZZZ	ZZZZZ	02/03/10	2247	2.26		6.25	
31	ZZZZZ	ZZZZZ	02/03/10	2259				
32	ZZZZZ	ZZZZZ	02/03/10	2312				

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.: 10-1432

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49 DCB: 6.84

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	02/03/10	1012	2.49	6.84
02	AR166001	WAR100203-01	02/03/10	1024	2.49	6.84
03	AR166002	WAR100203-02	02/03/10	1037	2.49	6.84
04	AR166003	WAR100203-03	02/03/10	1049	2.49	6.84
05	AR166004	WAR100203-04	02/03/10	1101	2.49	6.84
06	AR166005	IAR100104-01	02/03/10	1114	2.49	6.84
07	AR166001	WAR100203-60	02/03/10	1126	2.49	6.84
08	AR125401	WAR100203-05	02/03/10	1139		
09	AR125402	WAR100203-06	02/03/10	1151		
10	AR125403	WAR100203-07	02/03/10	1203		
11	AR125404	WAR100203-08	02/03/10	1216		
12	AR125405	IAR091027-01	02/03/10	1228		
13	AR125401	WAR091216-54	02/03/10	1240		
14	AR124201	WAR100203-09	02/03/10	1253		
15	AR124202	WAR100203-10	02/03/10	1305		
16	AR124203	WAR100203-11	02/03/10	1318		
17	AR124204	WAR100203-12	02/03/10	1330		
18	AR124205	IAR091111-01	02/03/10	1342		
19	AR124201	WAR091217-42	02/03/10	1355		
20	AR124801	WAR100203-13	02/03/10	1407		
21	AR124802	WAR100203-14	02/03/10	1419		
22	AR124803	WAR100203-15	02/03/10	1432		
23	AR124804	WAR100203-16	02/03/10	1444		
24	AR124805	IAR091027-02	02/03/10	1457		
25	AR124801	WAR091217-48	02/03/10	1509		
26	AR123201	WAR100104-32	02/03/10	1521		
27	AR122101	WAR100104-21	02/03/10	1534		
28	AR126201	WAR100203-17	02/03/10	1546		
29	AR126202	WAR100203-18	02/03/10	1558		
30	AR126203	WAR100203-19	02/03/10	1611		
31	AR126204	WAR100203-20	02/03/10	1623		
32	AR126205	IAR100104-04	02/03/10	1636		

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.

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.: 10-1432

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49 DCB: 6.84

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	AR126201	WAR100104-62	02/03/10	1648				
02	AR126801	WAR091107-68	02/03/10	1700				
03	AR124801	WAR091217-48	02/03/10	1713				
04	DDTANALOGSTD	WAR091219-DD	02/03/10	1725				
05	PIBLK02	WAR091130-99	02/03/10	1738	2.49		6.84	
06	ZZZZZ	ZZZZZ	02/03/10	1750	2.49		6.84	
07	ZZZZZ	ZZZZZ	02/03/10	1802	2.49		6.84	
08	ZZZZZ	ZZZZZ	02/03/10	1815	2.49		6.84	
09	ZZZZZ	ZZZZZ	02/03/10	1827	2.49		6.84	
10	ZZZZZ	ZZZZZ	02/03/10	1839	2.49		6.84	
11	ZZZZZ	ZZZZZ	02/03/10	1852	2.49		6.84	
12	ZZZZZ	ZZZZZ	02/03/10	1904	2.49		6.84	
13	ZZZZZ	ZZZZZ	02/03/10	1916	2.49		6.84	
14	ZZZZZ	ZZZZZ	02/03/10	1929	2.49		6.84	
15	ZZZZZ	ZZZZZ	02/03/10	1941	2.49		6.84	
16	AR166002	WAR100203-60	02/03/10	1954	2.49		6.84	
17	PIBLK03	WAR091130-99	02/03/10	2006	2.49		6.84	
18	ZZZZZ	ZZZZZ	02/03/10	2018	2.49		6.84	
19	ZZZZZ	ZZZZZ	02/03/10	2031	2.49		6.84	
20	ZZZZZ	ZZZZZ	02/03/10	2043	2.49		6.84	
21	ZZZZZ	ZZZZZ	02/03/10	2055	2.49		6.84	
22	AR166003	WAR100203-60	02/03/10	2108	2.49		6.84	
23	PIBLK04	WAR091130-99	02/03/10	2120	2.49		6.84	
24	ZZZZZ	ZZZZZ	02/03/10	2133	2.49		6.84	
25	ZZZZZ	ZZZZZ	02/03/10	2145	2.49		6.84	
26	RE15-10-7883	245686001	02/03/10	2157	2.49		6.84	
27	AR166004	WAR100203-60	02/03/10	2210	2.49		6.84	
28	PIBLK05	WAR091130-99	02/03/10	2222	2.49		6.84	
29	ZZZZZ	ZZZZZ	02/03/10	2234	2.49		6.84	
30	ZZZZZ	ZZZZZ	02/03/10	2247	2.49		6.84	
31	ZZZZZ	ZZZZZ	02/03/10	2259				
32	ZZZZZ	ZZZZZ	02/03/10	2312				

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

SDG Number: 10-1432 **Client ID:** LCS for batch 947573

Lab Sample ID: 1202029844

Data File:	033f3301.d	**Data File:**	033b3301.d
Inst:	ECD8A.I_1	**Inst:**	ECD8A.I_2
Column:	CLP1	**Column:**	CLP2
Analyzed:	02-FEB-10 18:31	**Analyzed:**	02-FEB-10 18:31

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.749
Column 1	1	2.81	2.78 - 2.84	18		ug/kg	
	2	3.17	3.14 - 3.2	18.5		ug/kg	
	3	3.31	3.28 - 3.34	17.4		ug/kg	
	4	3.4	3.37 - 3.43	19		ug/kg	
	5	3.56	3.53 - 3.59	18.3		ug/kg	
					18.2		
Column 2	1	3.56	3.53 - 3.59	18.7		ug/kg	
	2	3.66	3.63 - 3.69	18.3		ug/kg	
	3	3.74	3.71 - 3.77	17.8		ug/kg	
	4	3.81	3.78 - 3.84	18.4		ug/kg	
	5	4.01	3.98 - 4.04	18.6		ug/kg	
					18.4		
Aroclor-1260							2
Column 1	1	4.44	4.41 - 4.47	21.9		ug/kg	
	2	4.63	4.6 - 4.66	23		ug/kg	
	3	4.91	4.88 - 4.94	22.7		ug/kg	
	4	5.08	5.05 - 5.11	22.6		ug/kg	
	5	5.49	5.46 - 5.52	23.4		ug/kg	
					22.7		
Column 2	1	4.92	4.89 - 4.95	22.1		ug/kg	
	2	5.07	5.04 - 5.1	23.2		ug/kg	
	3	5.39	5.36 - 5.42	23.5		ug/kg	
	4	5.6	5.57 - 5.63	23.1		ug/kg	
	5	6.03	6 - 6.06	24.1		ug/kg	
					23.2		

Identification Summary

SDG Number: 10–1432 **Client ID:** RE15–10–7883

Lab Sample ID: 245686001

Data File:	**058f5801.d**	**Data File:**	**058b5801.d**
Inst:	**ECD8A.I_1**	**Inst:**	**ECD8A.I_2**
Column:	**CLP1**	**Column:**	**CLP2**
Analyzed:	**03–FEB–10 21:57**	**Analyzed:**	**03–FEB–10 21:57**

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor–1254							20.5
Column 1	1	3.84	3.81 – 3.87	3.36		ug/kg	
	2	4.03	4 – 4.06	3.32		ug/kg	
	3	4.22	4.19 – 4.25	3.25		ug/kg	
	4	4.31	4.28 – 4.34	2.93		ug/kg	
	5	4.5	4.47 – 4.53	3.13		ug/kg	
					3.2		
Column 2	1	4.32	4.29 – 4.35	3.79		ug/kg	
	2	4.46	4.43 – 4.49	4.48		ug/kg	
	3	4.78	4.75 – 4.81	2.98		ug/kg	
	4	4.95	4.92 – 4.98	3.84		ug/kg	
	5	5.07	5.04 – 5.1	4.54		ug/kg	
					3.93		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**			**Matrix:**	**SOIL**
Lab Sample ID:	**1202029843**				
Client Sample:	**QC for batch 947573**	**Client:**	**LANL010**	**Project:**	**QC**
Client ID:	**MB for batch 947573**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 18:18**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30 g**	**Final Volume:**	**1 mL**
Data File:	**032f3201-1.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	032b3201-1.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/032f3201.d
Lab Smp Id: 1202029843 Client Smp ID: PBLK01
Inj Date : 02-FEB-2010 18:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029843|1|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 32 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx						CAS #: 877-09-8		
	2.255	2.257	-0.002	16738046	127.775	4.2	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
	6.247	6.249	-0.002	12813638	144.904	4.8	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/032f3201.d

Date : 02-FEB-2010 18:18

Client ID: PBLK01

Sample Info: |120202984311|

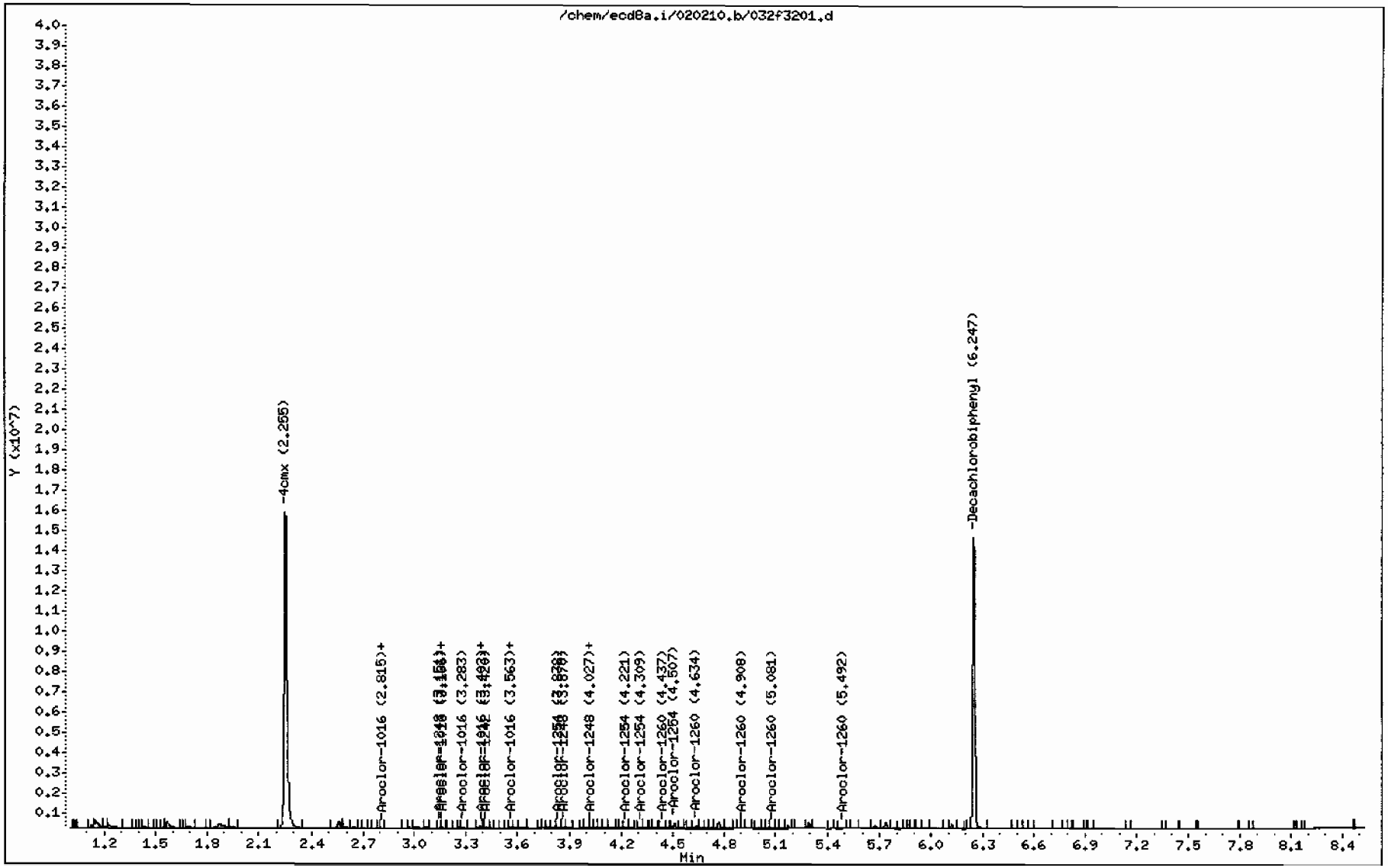
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd8a.i

Operator: JADC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/032b3201.d
Lab Smp Id: 1202029843 Client Smp ID: PBLK01
Inj Date : 02-FEB-2010 18:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029843|1|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 32 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx						CAS #: 877-09-8		
	2.488	2.490	-0.002	10894485	133.490	4.4	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
	6.840	6.841	-0.001	8759052	149.867	5.0	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/020210.b/032b3201.d

Date : 02-FEB-2010 18:18

Client ID: PBLK01

Sample Info: |120202984311|

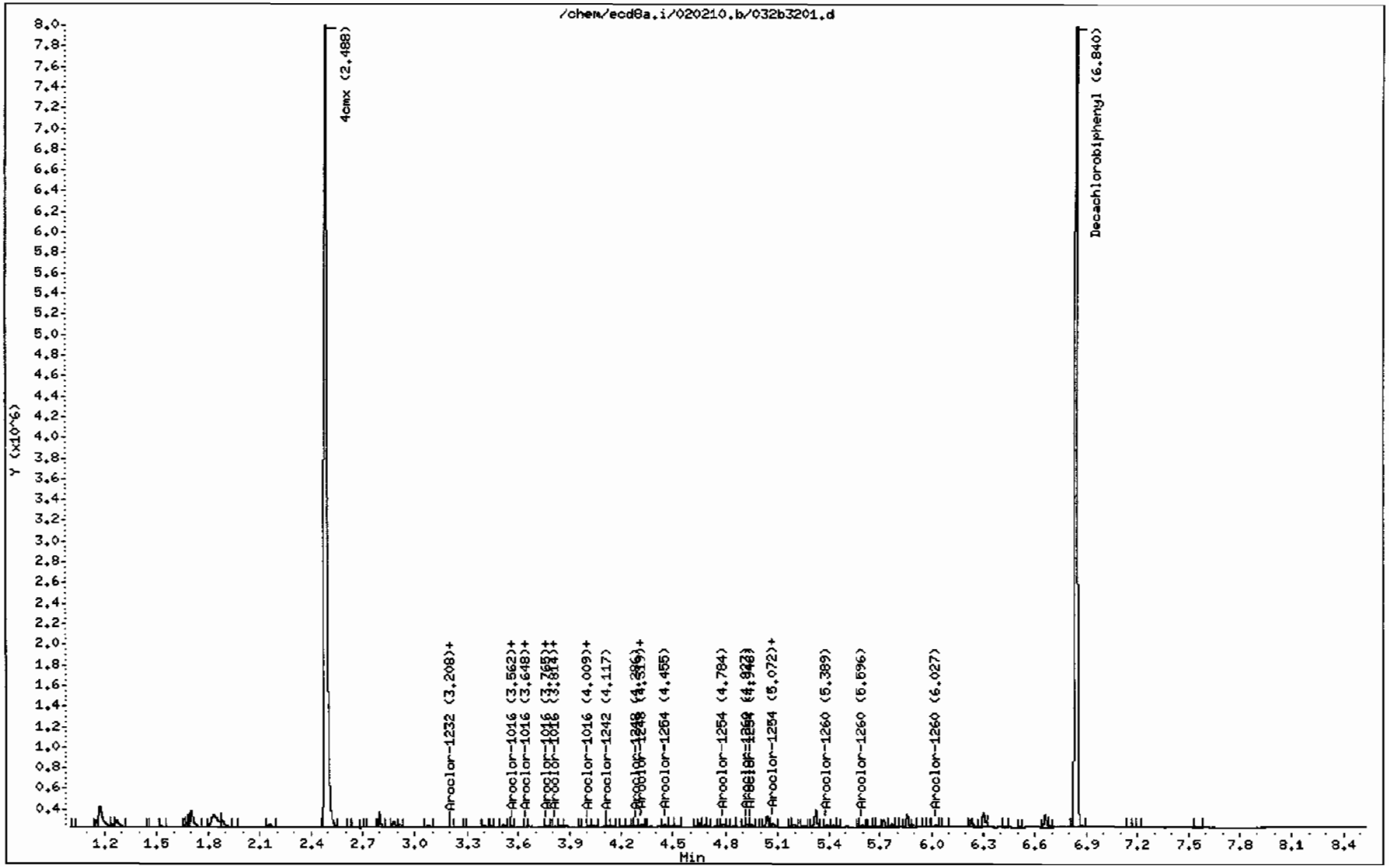
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10-1432**			**Matrix:**	**SOIL**
Lab Sample ID:	**1202029844**				
Client Sample:	**QC for batch 947573**	**Client:**	**LANL010**	**Project:**	**QC**
Client ID:	**LCS for batch 947573**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL-OA-E-040**
Batch ID:	**947574**	**Inst:**	**ECD8A.I**	**Dilution:**	**1**
Run Date:	**02/02/2010 18:31**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/01/2010 19:57**	**Aliquot:**	**30 g**	**Final Volume:**	**1 mL**
Data File:	**033f3301-1.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	033b3301-1.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		18.4	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		23.2	ug/kg	1.11	3.33	2

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/033f3301.d
Lab Smp Id: 1202029844 Client Smp ID: PBLK01LCS
Inj Date : 02-FEB-2010 18:31
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029844|1|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.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			
2.255	2.257	-0.002	14494780	110.650	3.7	80.00	120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.247	6.249	-0.002	11357547	128.437	4.3	80.00	120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2			
2.813	2.814	-0.001	2469736	540.094	18.0	80.00	120.00	100.00
3.166	3.166	0.000	2927202	554.352	18.5	110.80	150.80	118.52
3.309	3.310	-0.001	1228422	520.713	17.4	34.76	74.76	49.74
3.402	3.402	0.000	1190629	570.205	19.0	27.61	67.61	48.21

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
1 Aroclor-1016 (continued)							
3.564	3.564	0.000	1612717	549.806	18.3	49.41- 89.41	65.30
Average of Peak Concentrations =					18.2		
7 Aroclor-1260					CAS #: 11096-82-5		
4.438	4.438	0.000	3788362	657.970	21.9	80.00- 120.00	100.00
4.633	4.635	-0.002	6007042	690.045	23.0	129.36- 169.36	158.57
4.909	4.910	-0.001	3638037	682.050	22.7	68.28- 108.28	96.03
5.081	5.082	-0.001	3762838	677.860	22.6	72.30- 112.30	99.33
5.492	5.493	-0.001	4132718	700.940	23.4	81.81- 121.81	109.09
Average of Peak Concentrations =					22.7		

Data File: /chem/ecd8a.i/020210.b/033f3301.d

Date : 02-FEB-2010 18:31

Client ID: PBLK01LCS

Instrument: ecd8a.i

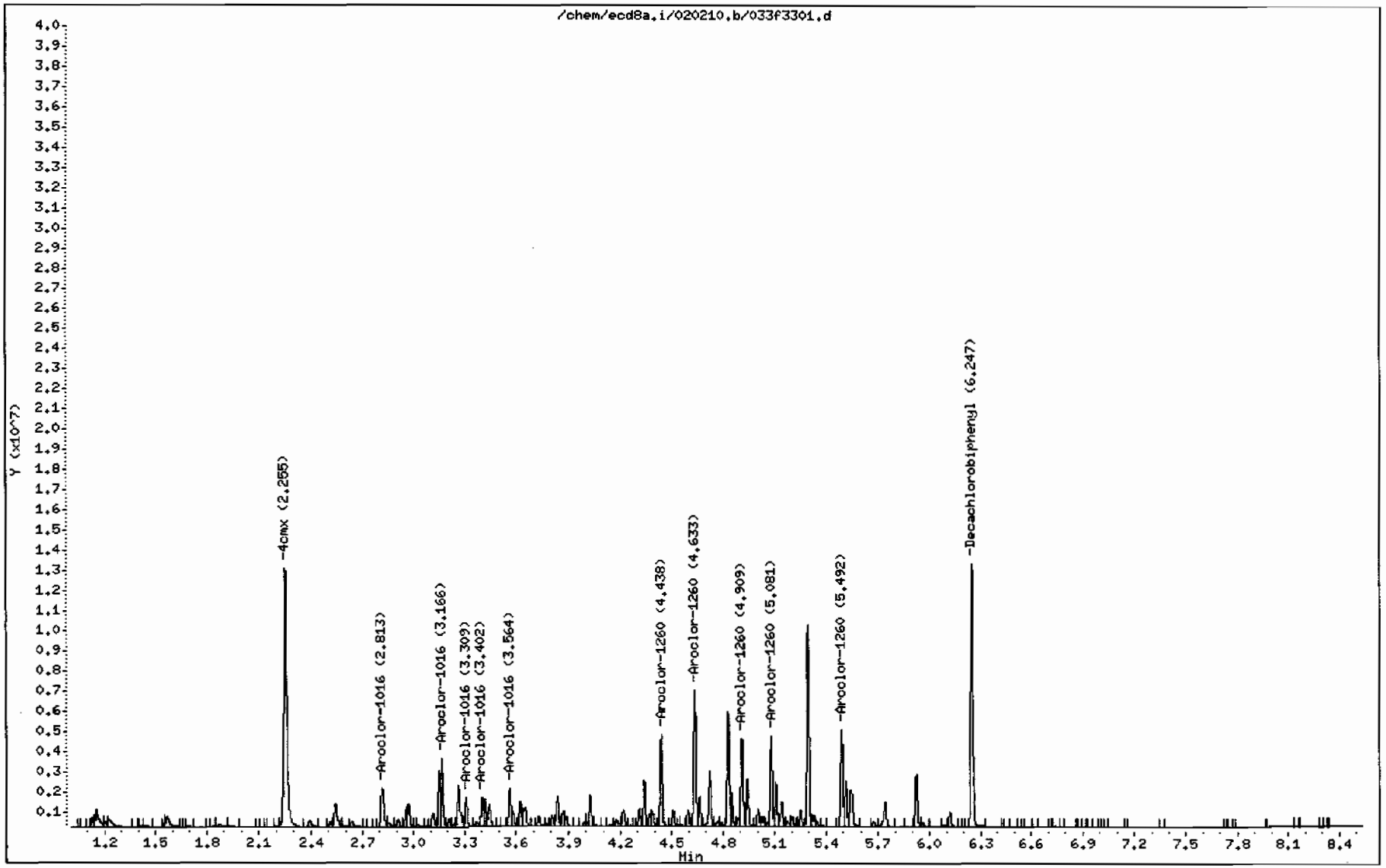
Sample Info: !120202984|1|

Volume Injected (uL): 1.0

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/033b3301.d
Lab Smp Id: 1202029844 Client Smp ID: PBLK01LCS
Inj Date : 02-FEB-2010 18:31
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029844|1|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1432.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx						CAS #: 877-09-8		
	2.488	2.490	-0.002	9522807	116.683	3.9	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
	6.841	6.841	0.000	7727426	132.216	4.4	80.00- 120.00	100.00
1 Aroclor-1016						CAS #: 12674-11-2		
	3.563	3.564	-0.001	1798539	561.866	18.7	80.00- 120.00	100.00
	3.662	3.663	-0.001	1252739	550.249	18.3	43.52- 83.52	69.65
	3.738	3.739	-0.001	700466	535.435	17.8	19.39- 59.39	38.95
	3.813	3.814	-0.001	709559	551.585	18.4	17.55- 57.55	39.45
	4.010	4.010	0.000	991053	556.608	18.6	32.56- 72.56	55.10
			Average of Peak Concentrations =			18.4		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.924	4.924	0.000	2338179	661.572	22.0	80.00- 120.00	100.00
5.072	5.073	-0.001	2932320	694.818	23.2	102.57- 142.57	125.41
5.388	5.389	-0.001	2283282	704.418	23.5	72.38- 112.38	97.65
5.596	5.596	0.000	2329900	692.645	23.1	76.07- 116.07	99.65
6.027	6.027	0.000	3864570	724.310	24.1	131.32- 171.32	165.28
		Average of Peak Concentrations =			23.2		

Data File: /chem/ecd8a.i/020210.b/033b3301.d

Date : 02-FEB-2010 18:31

Client ID: PBLK01LCS

Sample Info: !120202984|1|

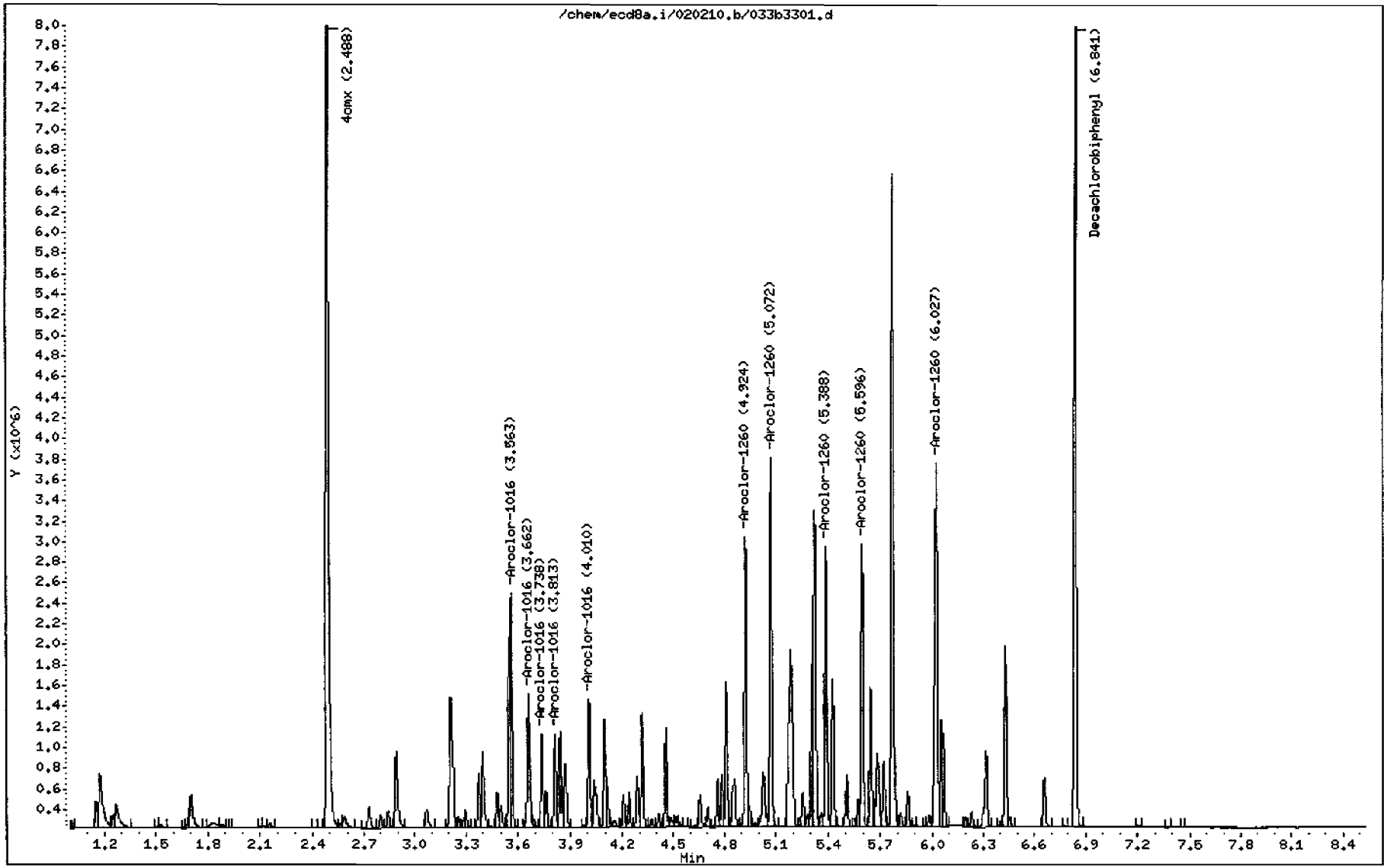
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG INSTRUMENT ID: ECD8

DATE: 01/22/2010 METHOD: ECD8-F-8082-011110a.m OPERATOR:JAOC REVIEWED BY:_____
DATE:_____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040
EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: /chem/ecd8a.i/012110.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	JAOC	21-JAN-2010 08:36		012110	1.0		CLEAN
002f0201.d	WAR100104-60 01	JAOC	21-JAN-2010 08:48		012110	1.0		DUSE
003f0301.d	WAR091217-48	JAOC	21-JAN-2010 09:19		012110	1.0		PASSES BOTH COLUMNS
004f0401.d	WAR100104-32	JAOC	21-JAN-2010 09:31		012110	1.0		PASSES BOTH COLUMNS
005f0501.d	WAR100121-01 60	JAOC	21-JAN-2010 09:43		012110	1.0		1660 LEVEL 1
006f0601.d	WAR100121-02 60	JAOC	21-JAN-2010 09:56		012110	1.0		1660 LEVEL 2
007f0701.d	WAR100121-03 60	JAOC	21-JAN-2010 10:08		012110	1.0		1660 LEVEL 3
008f0801.d	WAR100121-04 60	JAOC	21-JAN-2010 10:21		012110	1.0		1660 LEVEL 4
009f0901.d	WAR100104-0160	JAOC	21-JAN-2010 10:33		012110	1.0		1660 LEVEL 5
010f1001.d	WAR100104-60 01	JAOC	21-JAN-2010 10:45		012110	1.0		PASSES BOTH COLUMNS
011f1101.d	WAR091219-DDT	JAOC	21-JAN-2010 10:58		012110	1.0		DDT
012f1201.d	WAR091130-99 02	JAOC	21-JAN-2010 11:10		012110	1.0		CLEAN
013f1301.d	1202019929	JAOC	21-JAN-2010 11:23	943396	2010AR1232MDL-S	1.0	QC A	DUSE, MDL STUDY FAILS
014f1401.d	1202019930	JAOC	21-JAN-2010 11:35	943396	2010AR1232MDL-S	1.0	QC A	DUSE, MDL STUDY FAILS
015f1501.d	244432001	JAOC	21-JAN-2010 11:48	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS

Instrument Batch: /chem/ecd8a.i/012110.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	244432002	JAOC	21-JAN-2010 12:00	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS
017f1701.d	244432003	JAOC	21-JAN-2010 12:12	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS

018f1801.d	244432004	JAOC	21-JAN-2010 12:25	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS
019f1901.d	244432005	JAOC	21-JAN-2010 12:37	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS
020f2001.d	244432006	JAOC	21-JAN-2010 12:50	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS
021f2101.d	244432007	JAOC	21-JAN-2010 13:02	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS
022f2201.d	244432008	JAOC	21-JAN-2010 13:14	943396	2010AR1232MDL-S	1.0	QCQA	DUSE, MDL STUDY FAILS
023f2301.d	WAR100104-60 02	JAOC	21-JAN-2010 13:27		012110	1.0		PASSES BOTH COLUMNS
024f2401.d	WAR091130-99 03	JAOC	21-JAN-2010 13:39		012110	1.0		CLEAN
025f2501.d	244386001	JAOC	21-JAN-2010 13:57	943396	2010MDLVECD81232-S	1.0	QCQA	DUSE, MDL STUDY FAILS
026f2601.d	244386002	JAOC	21-JAN-2010 14:09	943396	2010MDLVECD81232-S	1.0	QCQA	DUSE, MDL STUDY FAILS
027f2701.d	244386003	JAOC	21-JAN-2010 14:22	943396	2010MDLVECD81232-S	1.0	QCQA	DUSE, MDL STUDY FAILS
028f2801.d	244386004	JAOC	21-JAN-2010 14:34	943396	2010MDLVECD81232-S	1.0	QCQA	DUSE, MDL STUDY FAILS
029f2901.d	WAR100104-60 03	JAOC	21-JAN-2010 14:47		012110	1.0		PASSES BOTH COLUMNS
030f3001.d	WAR091130-99 04	JAOC	21-JAN-2010 14:59		012110	1.0		CLEAN
031f3101.d	1202020656	JAOC	21-JAN-2010 15:11	943705	2010AR1248MDL-S	1.0	QC A	UPLOAD BOTH, USE BOTH
032f3201.d	1202020657	JAOC	21-JAN-2010 15:24	943705	2010AR1248MDL-S	1.0	QC A	UPLOAD BOTH, USE BOTH
033f3301.d	244434001	JAOC	21-JAN-2010 15:36	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
034f3401.d	244434002	JAOC	21-JAN-2010 15:48	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
035f3501.d	244434003	JAOC	21-JAN-2010 16:01	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	244434004	JAOC	21-JAN-2010 16:13	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
037f3701.d	244434005	JAOC	21-JAN-2010 16:26	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
038f3801.d	244434006	JAOC	21-JAN-2010 16:38	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
039f3901.d	244434007	JAOC	21-JAN-2010 16:50	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
040f4001.d	244434008	JAOC	21-JAN-2010 17:03	943705	2010AR1248MDL-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
041f4101.d	WAR100104-60 04	JAOC	21-JAN-2010 17:15		012110	1.0		PASSES BOTH COLUMNS

042f4201.d	WAR091130-99 05	JAOC	21-JAN-2010 17:28		012110	1.0		CLEAN
043f4301.d	244392001	JAOC	21-JAN-2010 17:40	943705	2010MDLVECD81248-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
044f4401.d	244392002	JAOC	21-JAN-2010 17:52	943705	2010MDLVECD81248-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
045f4501.d	244392003	JAOC	21-JAN-2010 18:05	943705	2010MDLVECD81248-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
046f4601.d	244392004	JAOC	21-JAN-2010 18:17	943705	2010MDLVECD81248-S	1.0	QCQA	UPLOAD BOTH, USE BOTH
047f4701.d	WAR100104-60 05	JAOC	21-JAN-2010 18:30		012110	1.0		PASSES BOTH COLUMNS
048f4801.d	WAR091130-99 06	JAOC	21-JAN-2010 18:42		012110	1.0		CLEAN
049f4901.d	1202019878	JAOC	21-JAN-2010 18:55	943378	2010AR1248MDL-L	1.0	QC A	UPLOAD BOTH, USE BOTH
050f5001.d	1202019879	JAOC	21-JAN-2010 19:07	943378	2010AR1248MDL-L	1.0	QC A	UPLOAD BOTH, USE BOTH
051f5101.d	243854001	JAOC	21-JAN-2010 19:19	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
052f5201.d	243854002	JAOC	21-JAN-2010 19:32	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
053f5301.d	243854003	JAOC	21-JAN-2010 19:44	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
054f5401.d	243854004	JAOC	21-JAN-2010 19:57	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
055f5501.d	243854005	JAOC	21-JAN-2010 20:09	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
056f5601.d	243854006	JAOC	21-JAN-2010 20:22	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
057f5701.d	243854007	JAOC	21-JAN-2010 20:34	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
058f5801.d	243854008	JAOC	21-JAN-2010 20:46	943378	2010AR1248MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
059f5901.d	WAR100104-60 06	JAOC	21-JAN-2010 20:59		012110	1.0		PASSES BOTH COLUMNS
060f6001.d	WAR091130-99 07	JAOC	21-JAN-2010 21:11		012110	1.0		CLEAN
061f6101.d	243858001	JAOC	21-JAN-2010 21:24	943378	2010MDLVECD81248-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
062f6201.d	243858002	JAOC	21-JAN-2010 21:36	943378	2010MDLVECD81248-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
063f6301.d	243858003	JAOC	21-JAN-2010 21:48	943378	2010MDLVECD81248-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
064f6401.d	243858004	JAOC	21-JAN-2010 22:01	943378	2010MDLVECD81248-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
065f6501.d	WAR100104-60 07	JAOC	21-JAN-2010 22:13		012110	1.0		PASSES BOTH COLUMNS
066f6601.d	WAR091130-99 08	JAOC	21-JAN-2010 22:26		012110	1.0		CLEAN

GEL ORGANIC RUN LOG INSTRUMENT ID: ECD8

DATE: 02/03/2010 METHOD: ECD8-F-8082-011110a.m OPERATOR:JAOC REVIEWED BY:_____
DATE:_____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040
EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: /chem/ecd8a.i/020210.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	JAOC	02-FEB-2010 11:53		020210	1.0		CLEAN
002f0201.d	WAR100104-60 01	JAOC	02-FEB-2010 12:06		020210	1.0		DUSE
003f0301.d	WAR100201-54	JAOC	02-FEB-2010 12:18		020210	1.0		PASSES BOTH COLUMNS
004f0401.d	WAR091217-42	JAOC	02-FEB-2010 12:30		020210	1.0		PASSES BOTH COLUMNS
005f0501.d	WAR091217-48	JAOC	02-FEB-2010 12:43		020210	1.0		PASSES BOTH COLUMNS
006f0601.d	WAR100104-60 01	JAOC	02-FEB-2010 12:55		020210	1.0		PASSES BOTH COLUMNS
007f0701.d	WAR100104-32	JAOC	02-FEB-2010 13:08		020210	1.0		PATTERN ONLY
008f0801.d	WAR100104-21	JAOC	02-FEB-2010 13:20		020210	1.0		PATTERN ONLY
009f0901.d	WAR100104-62	JAOC	02-FEB-2010 13:32		020210	1.0		PATTERN ONLY
010f1001.d	WAR091107-68	JAOC	02-FEB-2010 13:45		020210	1.0		PATTERN ONLY
011f1101.d	WAR091219-DDT	JAOC	02-FEB-2010 13:57		020210	1.0		DDT
012f1201.d	WAR091130-99 02	JAOC	02-FEB-2010 14:10		020210	1.0		CLEAN
013f1301.d	1202028920	JAOC	02-FEB-2010 14:22	947177	EUI-7485	1.0	QC A	UPLOAD BOTH, USE HIGHER
014f1401.d	1202028921	JAOC	02-FEB-2010 14:34	947177	EUI-7485	1.0	QC A	UPLOAD BOTH, USE HIGHER
015f1501.d	1202028924	JAOC	02-FEB-2010 14:47	947177	EUI-7485	1.0	QC A	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/020210.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	245703001	JAOC	02-FEB-2010 14:59	947177	EUI-7485	100000.0	CARE	UPLOAD BOTH, USE HIGHER
017f1701.d	1202028922	JAOC	02-FEB-2010 15:12	947177	EUI-7485	100000.0	QC A	UPLOAD BOTH, USE HIGHER

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
018f1801.d	1202028923	JAOC	02-FEB-2010 15:24	947177	EUI-7485	100000.0	QC A	UPLOAD BOTH, USE HIGHER
019f1901.d	245721001	JAOC	02-FEB-2010 15:36	947177	EUI-7489	50.0	CARE	DUSE, RUN AT LOWER DILUTION
020f2001.d	245764001	JAOC	02-FEB-2010 15:49	947177	EUI-7494	10.0	CARE	DUSE, RUN AT LOWER DILUTION
021f2101.d	245721001	JAOC	02-FEB-2010 16:01	947177	EUI-7489	10.0	CARE	UPLOAD BOTH, USE HIGHER
022f2201.d	245764001	JAOC	02-FEB-2010 16:15	947177	EUI-7494	1.0	CARE	UPLOAD BOTH, USE HIGHER
023f2301.d	WAR100104-60 02	JAOC	02-FEB-2010 16:27		020210	1.0		PASSES BOTH COLUMNS
024f2401.d	WAR091130-99 03	JAOC	02-FEB-2010 16:39		020210	1.0		CLEAN
025f2501.d	1202028928	JAOC	02-FEB-2010 16:52	947182	245512	1.0	QC A	UPLOAD BOTH, USE HIGHER
026f2601.d	1202028929	JAOC	02-FEB-2010 17:04	947182	245512	1.0	QC A	UPLOAD BOTH, USE HIGHER
027f2701.d	245512001	JAOC	02-FEB-2010 17:16	947182	245512	1.0	DSSI	UPLOAD BOTH, USE HIGHER
028f2801.d	1202028930	JAOC	02-FEB-2010 17:29	947182	245512	1.0	QC A	UPLOAD BOTH, USE HIGHER
029f2901.d	1202028931	JAOC	02-FEB-2010 17:41	947182	245512	1.0	QC A	UPLOAD BOTH, USE HIGHER
030f3001.d	WAR100104-60 03	JAOC	02-FEB-2010 17:54		020210	1.0		PASSES BOTH COLUMNS
031f3101.d	WAR091130-99 04	JAOC	02-FEB-2010 18:06		020210	1.0		CLEAN
032f3201.d	1202029843	JAOC	02-FEB-2010 18:18	947574	10-1432	1.0	QC A	UPLOAD BOTH, USE HIGHER
033f3301.d	1202029844	JAOC	02-FEB-2010 18:31	947574	00-1432	1.0	QC A	UPLOAD BOTH, USE HIGHER
034f3401.d	245679002	JAOC	02-FEB-2010 18:43	947574	10-1449	10.0	LANL	UPLOAD BOTH, USE HIGHER
035f3501.d	1202029845	JAOC	02-FEB-2010 18:56	947574	10-1449	10.0	QC A	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/020210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	1202029846	JAOC	02-FEB-2010 19:08	947574	10-1449	10.0	QC A	UPLOAD BOTH, USE HIGHER
037f3701.d	245679003	JAOC	02-FEB-2010 19:20	947574	10-1449	5.0	LANL	UPLOAD BOTH, USE HIGHER
038f3801.d	245679004	JAOC	02-FEB-2010 19:33	947574	10-1449	1.0	LANL	UPLOAD BOTH, USE HIGHER
039f3901.d	245679005	JAOC	02-FEB-2010 19:45	947574	10-1449	1.0	LANL	UPLOAD BOTH, USE HIGHER
040f4001.d	245679006	JAOC	02-FEB-2010 19:58	947574	10-1449	10.0	LANL	UPLOAD BOTH, USE HIGHER
041f4101.d	245679007	JAOC	02-FEB-2010 20:10	947574	10-1449	5.0	LANL	UPLOAD BOTH, USE HIGHER

042f4201.d	WAR100104-60 04	JAOC	02-FEB-2010 20:26		020210	1.0		FAILS HIGH, REPORT SAMPLE WITH NO HITS
043f4301.d	WAR091130-99 05	JAOC	02-FEB-2010 20:39		020210	1.0		CLEAN
044f4401.d	245679008	JAOC	02-FEB-2010 20:51	947574	10-1449	5.0	LANL	DUSE, RE-RUN WITH PASSING CHECK
045f4501.d	245679009	JAOC	02-FEB-2010 21:04	947574	10-1449	10.0	LANL	UPLOAD BOTH, USE HIGHER
046f4601.d	245679010	JAOC	02-FEB-2010 21:16	947574	10-1449	5.0	LANL	UPLOAD BOTH, USE HIGHER
047f4701.d	245679011	JAOC	02-FEB-2010 21:28	947574	10-1449	10.0	LANL	DUSE, RE-RUN WITH PASSING CHECK
048f4801.d	245686001	JAOC	02-FEB-2010 21:41	947574	10-1432	1.0	LANL	DUSE, RE-RUN WITH PASSING CHECK
049f4901.d	245686002	JAOC	02-FEB-2010 21:53	947574	10-1432	1.0	LANL	UPLOAD BOTH, USE HIGHER
050f5001.d	245686013	JAOC	02-FEB-2010 22:06	947574	10-1432	1.0	LANL	UPLOAD BOTH, USE HIGHER
051f5101.d	245686014	JAOC	02-FEB-2010 22:18	947574	10-1432	1.0	LANL	UPLOAD BOTH, USE HIGHER
052f5201.d	WAR100104-60 05	JAOC	02-FEB-2010 22:34		020210	1.0		FAILS HIGH, REPORT SAMPLE WITH NO HITS
053f5301.d	WAR091130-99 06	JAOC	02-FEB-2010 22:47		020210	1.0		CLEAN

GEL ORGANIC RUN LOG INSTRUMENT ID: ECD8

DATE: 02/04/2010 METHOD: ECD8-F-8082-020310a.m OPERATOR:JAOC REVIEWED BY:_____
DATE:_____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040
EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: /chem/ecd8a.i/020310a.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	JAOC	03-FEB-2010 10:12		020310a	1.0		CLEAN
002f0201.d	WAR100203-01 60	JAOC	03-FEB-2010 10:24		020310a	1.0		1660 LEVEL 1
003f0301.d	WAR100203-02 60	JAOC	03-FEB-2010 10:37		020310a	1.0		1660 LEVEL 2
004f0401.d	WAR100203-03 60	JAOC	03-FEB-2010 10:49		020310a	1.0		1660 LEVEL 3
005f0501.d	WAR100203-04 60	JAOC	03-FEB-2010 11:01		020310a	1.0		1660 LEVEL 4
006f0601.d	IAR100104-01 60	JAOC	03-FEB-2010 11:14		020310a	1.0		1660 LEVEL 5
007f0701.d	WAR100203-60 01	JAOC	03-FEB-2010 11:26		020310a	1.0		PASSES BOTH COLUMNS
008f0801.d	WAR100203-05 54	JAOC	03-FEB-2010 11:39		020310a	1.0		1254 LEVEL 1
009f0901.d	WAR100203-06 54	JAOC	03-FEB-2010 11:51		020310a	1.0		1254 LEVEL 2
010f1001.d	WAR100203-07 54	JAOC	03-FEB-2010 12:03		020310a	1.0		1254 LEVEL 3
011f1101.d	WAR100203-08 54	JAOC	03-FEB-2010 12:16		020310a	1.0		1254 LEVEL 4
012f1201.d	IAR091027-01 54	JAOC	03-FEB-2010 12:28		020310a	1.0		1254 LEVEL 5
013f1301.d	WAR100201-54	JAOC	03-FEB-2010 12:40		020310a	1.0		PASSES BOTH COLUMNS
014f1401.d	WAR100203-09 42	JAOC	03-FEB-2010 12:53		020310a	1.0		1242 LEVEL 1
015f1501.d	WAR100203-10 42	JAOC	03-FEB-2010 13:05		020310a	1.0		1242 LEVEL 2

Instrument Batch: /chem/ecd8a.i/020310a.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100203-11 42	JAOC	03-FEB-2010 13:18		020310a	1.0		1242 LEVEL 3
017f1701.d	WAR100203-12 42	JAOC	03-FEB-2010 13:30		020310a	1.0		1242 LEVEL 4

018f1801.d	IAR091111-01 42	JAOC	03-FEB-2010 13:42		020310a	1.0	1242 LEVEL 5
019f1901.d	WAR091217-42	JAOC	03-FEB-2010 13:55		020310a	1.0	PASSES BOTH COLUMNS
020f2001.d	WAR100203-13 48	JAOC	03-FEB-2010 14:07		020310a	1.0	1248 LEVEL 1
021f2101.d	WAR100203-14 48	JAOC	03-FEB-2010 14:19		020310a	1.0	1248 LEVEL 2
022f2201.d	WAR100203-15 48	JAOC	03-FEB-2010 14:32		020310a	1.0	1248 LEVEL 3
023f2301.d	WAR100203-16 48	JAOC	03-FEB-2010 14:44		020310a	1.0	1248 LEVEL 4
024f2401.d	IAR091027-02 48	JAOC	03-FEB-2010 14:57		020310a	1.0	1248 LEVEL 5
025f2501.d	WAR091217-48	JAOC	03-FEB-2010 15:09		020310a	1.0	DUSE RE-RUN
026f2601.d	WAR100104-32	JAOC	03-FEB-2010 15:21		020310a	1.0	PATTERN ONLY
027f2701.d	WAR100104-21	JAOC	03-FEB-2010 15:34		020310a	1.0	PATTERN ONLY
028f2801.d	WAR100203-17 62	JAOC	03-FEB-2010 15:46		020310a	1.0	1262 LEVEL 1
029f2901.d	WAR100203-18 62	JAOC	03-FEB-2010 15:58		020310a	1.0	1262 LEVEL 2
030f3001.d	WAR100203-19 62	JAOC	03-FEB-2010 16:11		020310a	1.0	1262 LEVEL 3
031f3101.d	WAR100203-20 62	JAOC	03-FEB-2010 16:23		020310a	1.0	1262 LEVEL 4
032f3201.d	IAR100104-04 62	JAOC	03-FEB-2010 16:36		020310a	1.0	1262 LEVEL 5
033f3301.d	WAR100104-62	JAOC	03-FEB-2010 16:48		020310a	1.0	PASSES BOTH COLUMNS
034f3401.d	WAR091107-68	JAOC	03-FEB-2010 17:00		020310a	1.0	PATTERN ONLY
035f3501.d	WAR091217-48	JAOC	03-FEB-2010 17:13		020310a	1.0	PASSES BOTH COLUMNS

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	WAR091219-DDT	JAOC	03-FEB-2010 17:25		020310a	1.0		DDT
037f3701.d	WAR091130-99 02	JAOC	03-FEB-2010 17:38		020310a	1.0		CLEAN
038f3801.d	1202026314	JAOC	03-FEB-2010 17:50	946047	2010AR1262MDL-L	1.0	QC A	UPLOAD BOTH, USE BOTH
039f3901.d	1202026315	JAOC	03-FEB-2010 18:02	946047	2010AR1262MDL-L	1.0	QC A	UPLOAD BOTH, USE BOTH
040f4001.d	243859001	JAOC	03-FEB-2010 18:15	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
041f4101.d	243859002	JAOC	03-FEB-2010 18:27	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH

042f4201.d	243859003	JAOC	03-FEB-2010 18:39	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
043f4301.d	243859004	JAOC	03-FEB-2010 18:52	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
044f4401.d	243859005	JAOC	03-FEB-2010 19:04	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
045f4501.d	243859006	JAOC	03-FEB-2010 19:16	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
046f4601.d	243859007	JAOC	03-FEB-2010 19:29	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
047f4701.d	243859008	JAOC	03-FEB-2010 19:41	946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
048f4801.d	WAR100203-60 02	JAOC	03-FEB-2010 19:54		020310a	1.0		PASSES BOTH COLUMNS
049f4901.d	WAR091130-99 03	JAOC	03-FEB-2010 20:06		020310a	1.0		CLEAN
050f5001.d	243865001	JAOC	03-FEB-2010 20:18	946047	2010MDLVECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
051f5101.d	243865002	JAOC	03-FEB-2010 20:31	946047	2010MDLVECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
052f5201.d	243865003	JAOC	03-FEB-2010 20:43	946047	2010MDLVECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
053f5301.d	243865004	JAOC	03-FEB-2010 20:55	946047	2010MDLVECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
054f5401.d	WAR100203-60 03	JAOC	03-FEB-2010 21:08		020310a	1.0		PASSES BOTH COLUMNS
055f5501.d	WAR091130-99 04	JAOC	03-FEB-2010 21:20		020310a	1.0		CLEAN

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
056f5601.d	245679008	JAOC	03-FEB-2010 21:33	947574	10-1449	5.0	LANL	UPLOAD BOTH, USE HIGHER
057f5701.d	245679011	JAOC	03-FEB-2010 21:45	947574	10-1449	10.0	LANL	UPLOAD BOTH, USE HIGHER
058f5801.d	245686001	JAOC	03-FEB-2010 21:57	947574	10-1432	1.0	LANL	UPLOAD BOTH, USE HIGHER
059f5901.d	WAR100203-60 04	JAOC	03-FEB-2010 22:10		020310a	1.0		PASSES BOTH COLUMNS
060f6001.d	WAR091130-99 05	JAOC	03-FEB-2010 22:22		020310a	1.0		CLEAN
061f6101.d	1202030643	JAOC	03-FEB-2010 22:34	947944	245873	1.0	QC A	UPLOAD BOTH, USE HIGHER
062f6201.d	1202030644	JAOC	03-FEB-2010 22:47	947944	245873	1.0	QC A	UPLOAD BOTH, USE HIGHER
063f6301.d	245873001	JAOC	03-FEB-2010 22:59	947944	245873	50.0	GEEL	UPLOAD BOTH, USE HIGHER
064f6401.d	1202030645	JAOC	03-FEB-2010 23:12	947944	245873	50.0	QC A	UPLOAD BOTH, USE HIGHER
065f6501.d	1202030646	JAOC	03-FEB-2010 23:24	947944	245873	50.0	QC A	UPLOAD BOTH, USE HIGHER
066f6601.d	245873002	JAOC	03-FEB-2010 23:36	947944	245873	1.0	GEEL	UPLOAD BOTH, USE HIGHER

067f6701.d	WAR100203-60 05	JAOC	03-FEB-2010 23:49		020310a	1.0	PASSES BOTH COLUMNS
068f6801.d	WAR091130-99 06	JAOC	04-FEB-2010 00:01		020310a	1.0	CLEAN

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/035b3501.d
Lab Smp Id: 1202029845 Client Smp ID: RE46-10-11901MS
Inj Date : 02-FEB-2010 18:56
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029845|10|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 35 QC Sample: MS
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: 10-1449.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.10000	Weight of sample extracted (g)
M	9.05010	% Moisture

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO	
RT	EXP RT	DLT RT	RESPONSE					
$ 11 4cmx					CAS #: 877-09-8			
2.490	2.490	0.000	1253508	15.3593	5.6	80.00- 120.00	100.00	
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.840	6.841	-0.001	893722	15.2915	5.6	80.00- 120.00	100.00	
1 Aroclor-1016					CAS #: 12674-11-2			
3.563	3.564	-0.001	291035	90.9197	33.2	80.00- 120.00	100.00	(a)
3.662	3.663	-0.001	212729	93.4384	34.1	43.52- 83.52	73.09	
3.739	3.739	0.000	114824	87.7713	32.1	19.39- 59.39	39.45	
3.814	3.814	0.000	127875	99.4053	36.3	17.55- 57.55	43.94	
4.010	4.010	0.000	159373	89.5091	32.7	32.56- 72.56	54.76	
Average of Peak Concentrations =					33.7			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.923	4.924	-0.001	364967	103.265	37.7	80.00- 120.00	100.00(a)
5.071	5.073	-0.002	425290	100.773	36.8	102.57- 142.57	116.53
5.388	5.389	-0.001	310448	95.7767	35.0	72.38- 112.38	85.06
5.595	5.596	-0.001	317702	94.4481	34.5	76.07- 116.07	87.05
6.027	6.027	0.000	492401	92.2873	33.7	131.32- 171.32	134.92
			Average of Peak Concentrations =		35.5		

QC Flag Legend

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

Data File: /chem/ecd8a.i/020210.b/035b3501.d

Date : 02-FEB-2010 18:56

Client ID: RE46-10-11901MS

Sample Info: |1202029845|10|

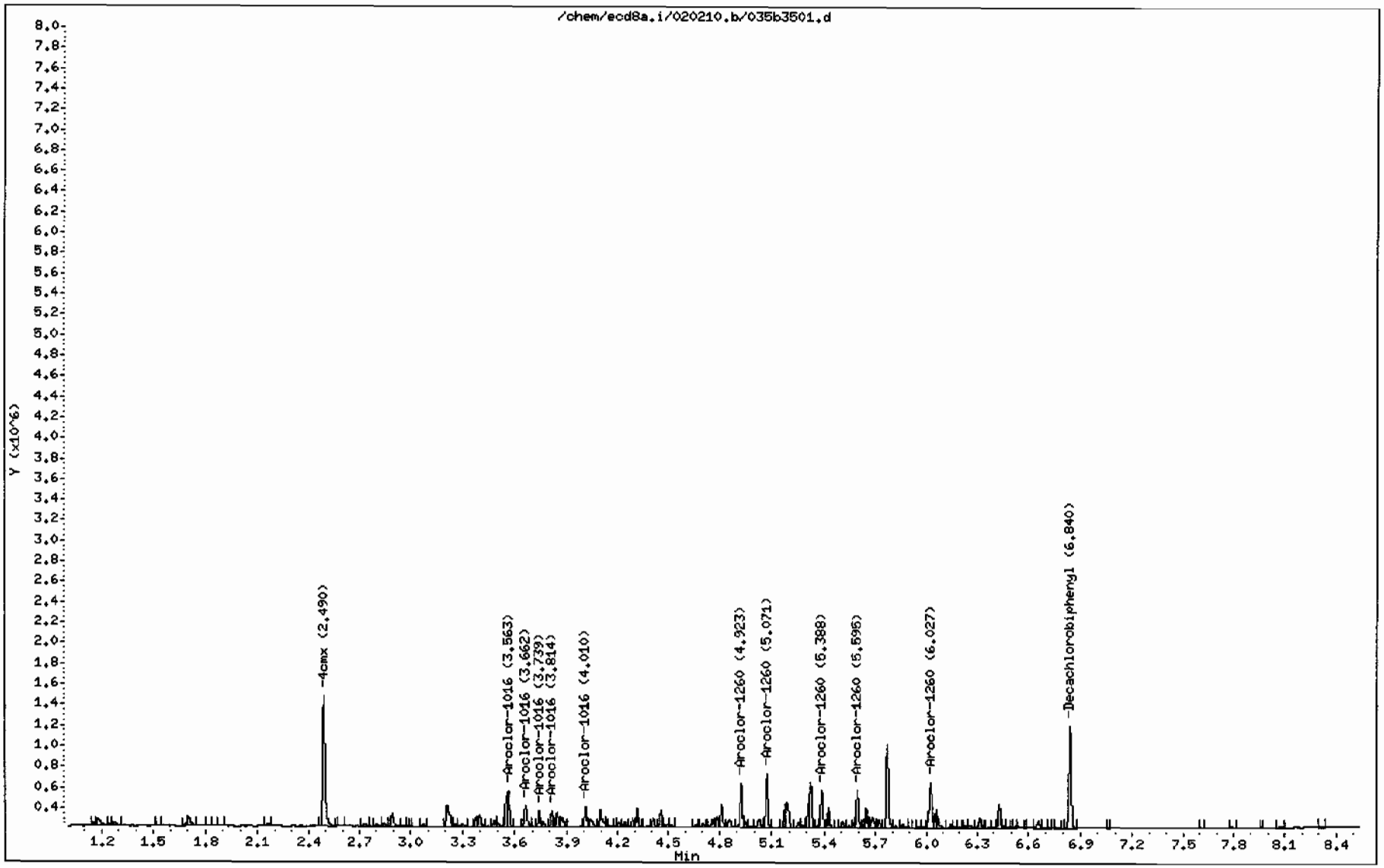
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/035f3501.d
Lab Smp Id: 1202029845 Client Smp ID: RE46-10-11901MS
Inj Date : 02-FEB-2010 18:56
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029845|10|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 35 QC Sample: MS
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: 10-1449.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.10000	Weight of sample extracted (g)
M	9.05010	% Moisture

Cpnd Variable Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx						CAS #: 877-09-8		
	2.256	2.257	-0.001	2070292	15.8042	5.8	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
	6.247	6.249	-0.002	1239940	14.0219	5.1	80.00- 120.00	100.00
1 Aroclor-1016						CAS #: 12674-11-2		
	2.815	2.814	0.001	454918	99.4838	36.3	80.00- 120.00	100.00(a)
	3.166	3.166	0.000	515419	97.6097	35.6	110.80- 150.80	113.30
	3.310	3.310	0.000	220196	93.3384	34.1	34.76- 74.76	48.40
	3.402	3.402	0.000	222580	106.596	38.9	27.61- 67.61	48.93
	3.565	3.564	0.001	294237	100.311	36.6	49.41- 89.41	64.68
			Average of Peak Concentrations =			36.3		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.437	4.438	-0.001	593259	103.038	37.6	80.00- 120.00	100.00(a)
4.633	4.635	-0.002	895313	102.847	37.6	129.36- 169.36	150.91
4.908	4.910	-0.002	506492	94.9558	34.7	68.28- 108.28	85.37
5.080	5.082	-0.002	517679	93.2578	34.1	72.30- 112.30	87.26
5.490	5.493	-0.003	551438	93.5281	34.2	81.81- 121.81	92.95
Average of Peak Concentrations =					35.6		

QC Flag Legend

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

Data File: /chem/ecd8a.i/020210.b/035f3501.d

Date : 02-FEB-2010 18:56

Client ID: RE46-10-11901MS

Sample Info: |1202029845|10|

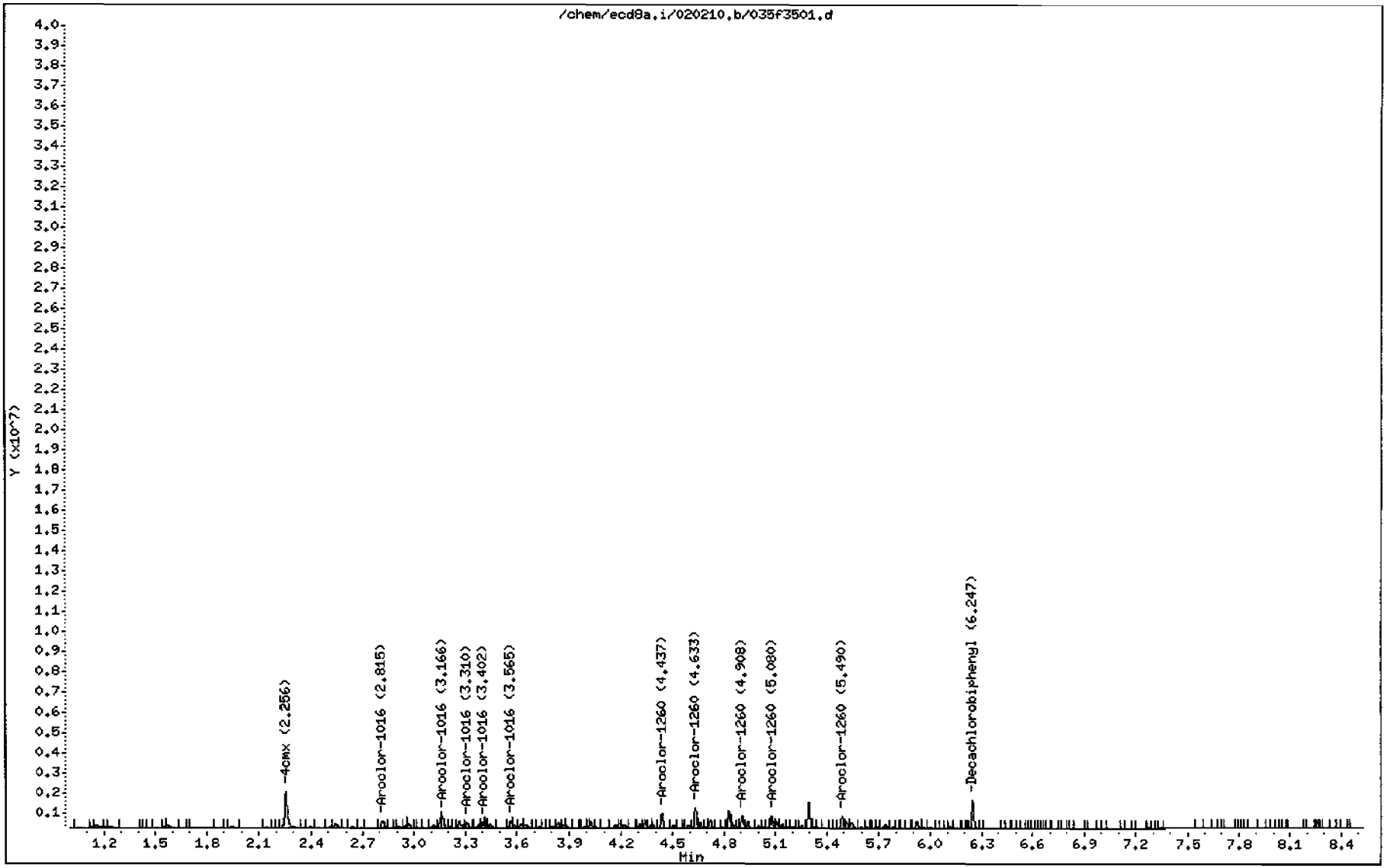
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/036b3601.d
Lab Smp Id: 1202029846 Client Smp ID: RE46-10-11901MSD
Inj Date : 02-FEB-2010 19:08
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029846|10|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-B-8082-011110a.m
Meth Date : 03-Feb-2010 08:24 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007b0701.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: 10-1449.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.17000	Weight of sample extracted (g)
M	9.05010	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.490	2.490	0.000	1080913	13.2445	4.8	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.840	6.841	-0.001	775782	13.2736	4.8	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.562	3.564	-0.002	258321	80.6998	29.4	80.00- 120.00	100.00(a)
3.662	3.663	-0.001	190463	83.6583	30.5	43.52- 83.52	73.73
3.738	3.739	-0.001	101168	77.3326	28.2	19.39- 59.39	39.16
3.813	3.814	-0.001	110584	85.9639	31.3	17.55- 57.55	42.81
4.010	4.010	0.000	141006	79.1936	28.9	32.56- 72.56	54.59
Average of Peak Concentrations =					29.7		

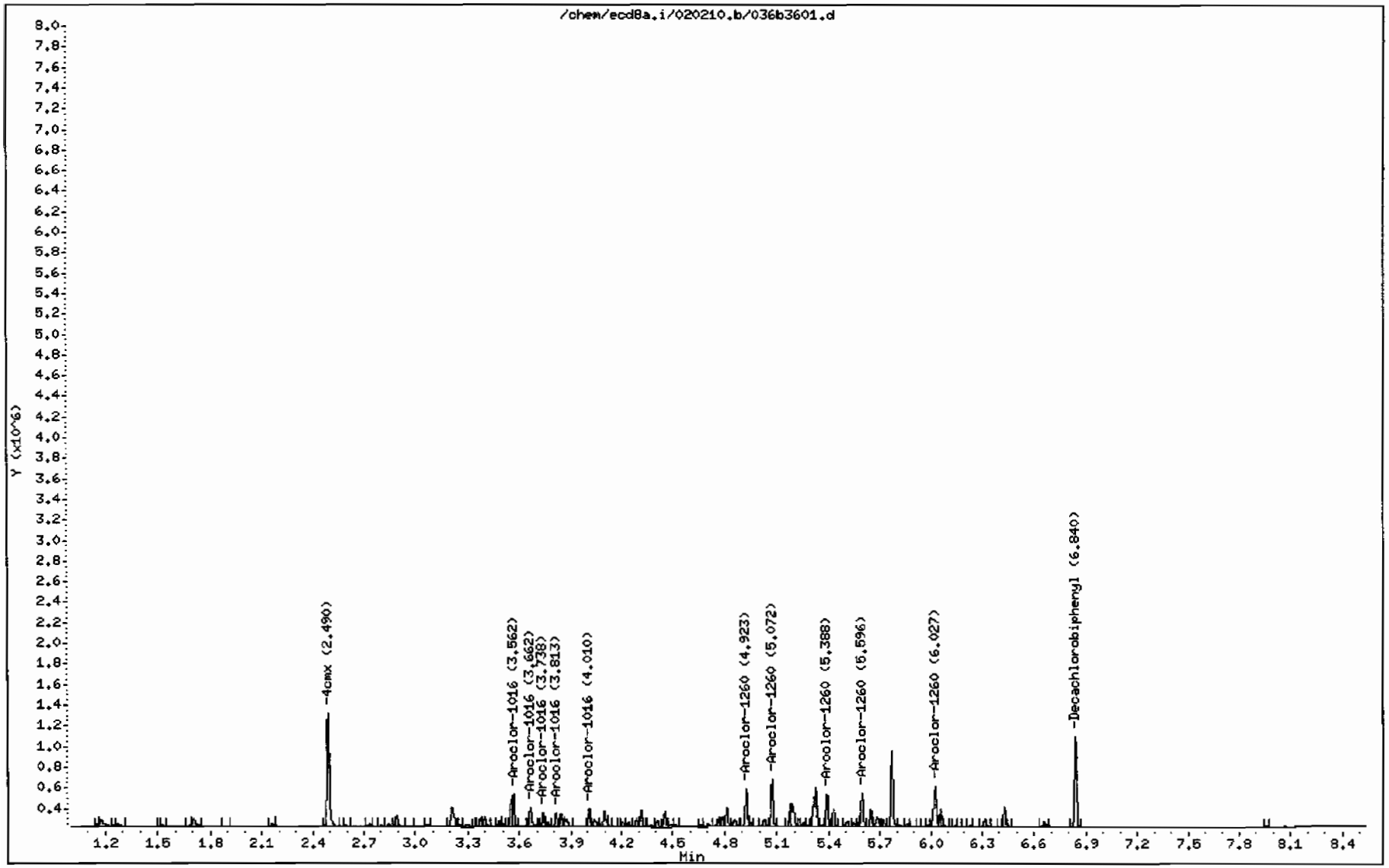
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.923	4.924	-0.001	322863	91.3519	33.3	80.00- 120.00	100.00(a)
5.072	5.073	-0.001	380439	90.1456	32.8	102.57- 142.57	117.83
5.388	5.389	-0.001	278713	85.9861	31.3	72.38- 112.38	86.33
5.596	5.596	0.000	284431	84.5572	30.8	76.07- 116.07	88.10
6.027	6.027	0.000	441420	82.7323	30.2	131.32- 171.32	136.72
		Average of Peak Concentrations =			31.7		

QC Flag Legend

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

Data File: /chem/ecd8a.i/020210.b/036b3601.d
Date : 02-FEB-2010 19:08
Client ID: RE46-10-11901MSD
Sample Info: |12020298461101|
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/020210.b/036f3601.d
Lab Smp Id: 1202029846 Client Smp ID: RE46-10-11901MSD
Inj Date : 02-FEB-2010 19:08
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202029846|10|
Misc Info : |ECD82P_1S|947574|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecd8a.i/020210.b/ECD8-F-8082-011110a.m
Meth Date : 03-Feb-2010 08:20 jen01212 Quant Type: ESTD
Cal Date : 22-JAN-2010 07:45 Cal File: 007f0701.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: 10-1449.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.17000	Weight of sample extracted (g)
M	9.05010	% Moisture

Cpnd Variable Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx						CAS #: 877-09-8		
	2.257	2.257	0.000	1816532	13.8671	5.0	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
	6.247	6.249	-0.002	1114798	12.6068	4.6	80.00- 120.00	100.00
1 Aroclor-1016						CAS #: 12674-11-2		
	2.814	2.814	0.000	407611	89.1385	32.5	80.00- 120.00	100.00(a)
	3.166	3.166	0.000	466427	88.3317	32.2	110.80- 150.80	114.43
	3.309	3.310	-0.001	199488	84.5605	30.8	34.76- 74.76	48.94
	3.402	3.402	0.000	198359	94.9963	34.6	27.61- 67.61	48.66
	3.564	3.564	0.000	261810	89.2561	32.5	49.41- 89.41	64.23
			Average of Peak Concentrations =			32.5		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.437	4.438	-0.001	550248	95.5682	34.8	80.00- 120.00	100.00(a)
4.633	4.635	-0.002	821587	94.3779	34.4	129.36- 169.36	149.31
4.908	4.910	-0.002	485055	90.9368	33.1	68.28- 108.28	88.15
5.081	5.082	-0.001	493137	88.8367	32.4	72.30- 112.30	89.62
5.492	5.493	-0.001	512039	86.8457	31.6	81.81- 121.81	93.06
		Average of Peak Concentrations =			33.3		

QC Flag Legend

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

Data File: /chem/ecd8a.i/020210.b/036f3601.d

Date : 02-FEB-2010 19:08

Client ID: RE46-10-11901MSD

Sample Info: !120202984610!

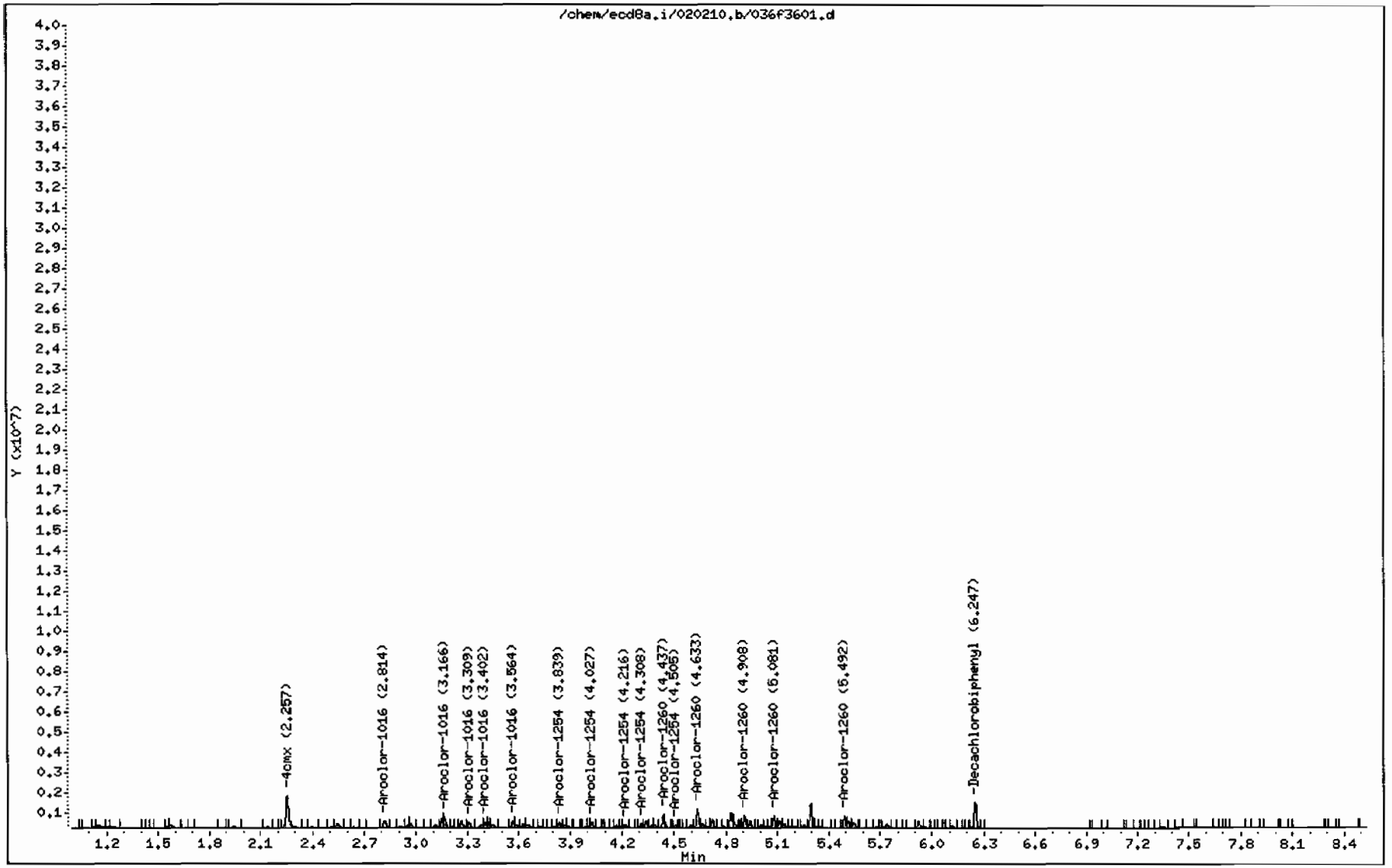
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 947573 **Verified by:** _____
Analyst: Andrew Schwemin
Method: SW846 3550B

Lab SOP: GL-OA-E-010 REV# 18
Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202029843 MB	01-FEB-2010 19:57:00	30	H2SO4/KMn2		2	9	1	0.03333
1202029844 LCS	01-FEB-2010 19:57:00	30	H2SO4/KMn2		2	9	1	0.03333
245679002	01-FEB-2010 19:57:00	30.19	H2SO4/KMn2		2	9	1	0.03312
1202029845 MS (245679002)	01-FEB-2010 19:57:00	30.1	H2SO4/KMn2		2	9	1	0.03322
1202029846 MSD (245679002)	01-FEB-2010 19:57:00	30.17	H2SO4/KMn2		2	9	1	0.03315
245679003	01-FEB-2010 19:57:00	30.03	H2SO4/KMn2		2	9	1	0.0333
245679004	01-FEB-2010 19:57:00	30.07	H2SO4/KMn2		2	9	1	0.03326
245679005	01-FEB-2010 19:57:00	30.09	H2SO4/KMn2		2	9	1	0.03323
245679006	01-FEB-2010 19:57:00	30.01	H2SO4/KMn2		2	9	1	0.03332
245679007	01-FEB-2010 19:57:00	30.04	H2SO4/KMn2		2	9	1	0.03329
245679008	01-FEB-2010 19:57:00	30.02	H2SO4/KMn2		2	9	1	0.03331
245679009	01-FEB-2010 19:57:00	30.16	H2SO4/KMn2		2	9	1	0.03316
245679010	01-FEB-2010 19:57:00	30.02	H2SO4/KMn2		2	9	1	0.03331
245679011	01-FEB-2010 19:57:00	30.12	H2SO4/KMn2		2	9	1	0.0332
245686001	01-FEB-2010 19:57:00	30.01	H2SO4/KMn2		2	9	1	0.03332
245686002	01-FEB-2010 19:57:00	30.08	H2SO4/KMn2		2	9	1	0.03324
245686013	01-FEB-2010 19:57:00	30.02	H2SO4/KMn2		2	9	1	0.03331
245686014	01-FEB-2010 19:57:00	30.18	H2SO4/KMn2		2	9	1	0.03313

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202029844	PCB Laboratory Control	WE100126-07	1	mL
MS	1202029845	PCB Laboratory Control	WE100126-07	1	mL
MSD	1202029846	PCB Laboratory Control	WE100126-07	1	mL
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE100108-15	1	mL
REGNT	All	Acetone	1259670	150	mL
REGNT	All	Hexane	1259672-B2	150	mL
REGNT	All	1:1 sulfuric acid	1260695a	5	mL
REGNT	All	5% Potassium Permanganate	B1202457-F	5	mL
SOURC	All	SODIUM SULFATE	100127	30	g

Comments:

Clean up Date: 2/1/10
Clean up Initials: AJS
Verified By: AV
Final Solvent: Hexane
Clean Up SOP: GL-OA-E-037