

Tuesday, February 23, 2010

Page 1 of 2
REQUEST NUMBER: 10-2012

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

These Samples are on:

General Engineering Laboratories, Inc., Charleston, SC.

LANL Request Number: 10-2012

2040 Savage Rd

Per Agreement Number: 126310011

Charleston, SC 29407

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/23/2010

TURNAROUND/REPORT DUE: 3/25/2010


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	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
	SW-846:8321A_MOD	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	

Tuesday, February 23, 2010

Page 2 of 2
REQUEST NUMBER: 10-2012

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD						
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	

Final Page of REQUEST NUMBER 10-2012

Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2012

LOS ALAMOS

REQUEST NUMBER: 10-2012

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/25/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8019	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8013	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8026	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8017	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8025	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8022	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8014	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8023	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8020	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8018	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8015	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8021	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8024	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8016	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8065	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8066	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8033	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date Time

Received By:

Date

Time

Greylin 2/23/10 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: RE15-10-8013

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		12:11:45		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610776		↓		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		SED		EXCAVATED: YES/NO/NA		NO	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO	
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 1 liter 1/11/10 LC	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 dark brown silty sand

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-23, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 5 dpm
Beta/Gamma \leq 2220 dpm

HE neg.
PID $\frac{\text{Ambient Reading}}{0.1} = \frac{0.0}{0.1}$ ppm

COLLECTED BY (PRINT)
ThMcFarlane

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>[Signature]</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8014

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1152		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610776	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.0		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 1 liter 1/11/10 LC	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 dry, tuff and black ash

SAMPLE COMMENTS:

Tuff at 1.5 ft

LOCATION DESC:

8b-23

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 33 dpm
Beta/Gamma \leq 2250 dpm


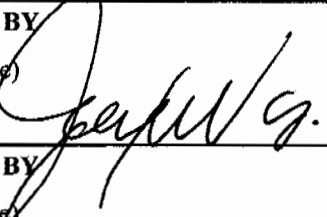
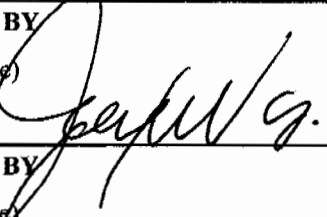
PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.1}$ ppm

COLLECTED BY (PRINT)

JLMcfarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8015

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1209		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 15-610777		↓		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		SED		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 1 liter 1/11/10 Le	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:

Frozen dark brown sand, tuff fragments, pine needles

SAMPLE COMMENTS:

Tuff at 0.5 ft 12m 2/18/10

LOCATION DESC:

8b-15, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 5 dpm
Beta/Gamma \leq 1762 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.2}$ ppm

COLLECTED BY (PRINT)

TL McFarlane

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <i>Jon Roberson</i> (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8016

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1215		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610777	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.5		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		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 11 liter 1/11/10 ga	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 and clay

FR: RE15-10-8086

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-15, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 22 dpm
Beta/Gamma ≤ 2100 dpm

PID $\frac{\text{Ambient Reading}}{0.3} = 0.0$ ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) <i>Geoffrey S</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8017

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:	QBT3	SED
TIME COLLECTED(HH:MM)		1317	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610778	↓	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	SED	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 1 liter 1/11/10 XC	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 dark brown sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-4, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative


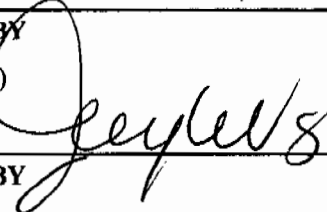
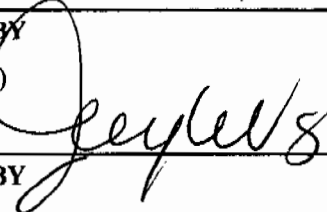
Alpha \leq 27 dpmBeta/Gamma \leq 3560 dpmPID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TL McFarlane

REVIEWED BY (PRINT)

Larry A Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8018

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: QBT3		SED	
TIME COLLECTED (HH:MM)		1339		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	15-610778	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		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 GAT POLY 1 liter 1/11/10 LC	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 dark brown silty sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-4 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 3980 dpm

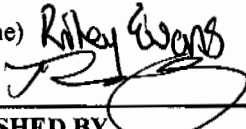
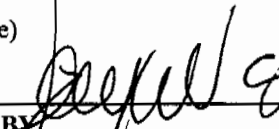
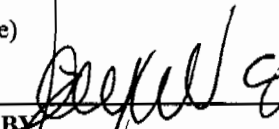
PID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

JLM of Farland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Riley G. Jones (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8019

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1320		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610779	↓		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		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		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 11 liter 1/11/10 Xc	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:

Light brown and dark brown sandy silt

SAMPLE COMMENTS:

Tuff at 6 in

LOCATION DESC: 8b-24

FIELD SCREENING/MEASUREMENT RESULTS:

HE = neg

Alpha ≤ 19 dpm

Beta/Gamma ≤ 2410 dpm

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

COLLECTED BY (PRINT)

Th McFarlane

REVIEWED BY (PRINT)

Laney A. Lopez

RELINQUISHED BY (Printed Name) <u>Laney A. Lopez</u> (Signature) <u>[Signature]</u>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <u>[Signature]</u> (Signature) <u>[Signature]</u>	Date/Time 2/18/10 1600
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8020

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: QBT3		ok	
TIME COLLECTED (HH:MM)		1327		SUB-MEDIA: TUFF 1		↓	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610779	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	2.0		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 11 liter 1/11/10	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:

Light brown weathered
tuff, weather roots
73m 2/18/10

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-24

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 44 dpm
Beta/Gamma \pm 2340 dpm

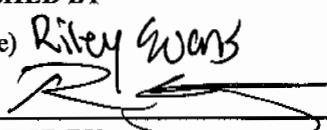
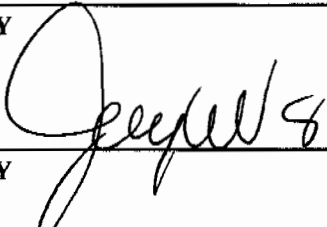
PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.1}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

LARRY A. LOPEZ

RELINQUISHED BY (Printed Name) RILEY GUNDS (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature)	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8021

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1404		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610780	↓		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:	B	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown sandy silt, roots, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-26

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

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

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

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Laney A Lopez

RELINQUISHED BY (Printed Name) Riley Ewins (Signature)	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8022

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1410		SUB-MEDIA:	TUFF 1		L
PRS ID:	15-008(b)		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610780		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		1.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		2.0	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		R	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA		NA	COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO/NA		BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:	NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 RC	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, some roots

FR: RE15-10-8088

SAMPLE COMMENTS:

Tuff at 1.0 ft

LOCATION DESC:

8b-26

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 27 dpm
Beta/Gamma \pm 2270 dpm

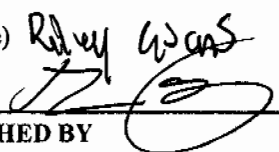
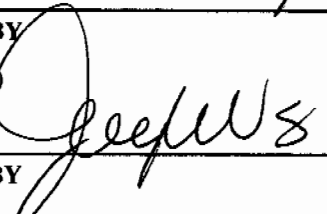
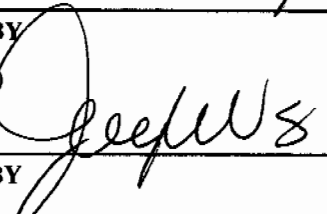
PID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Riley Adams (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8023

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		QBT3
TIME COLLECTED (HH:MM)		1424	SUB-MEDIA:		TUFF 1
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	15-610781	↓	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:	B	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 re	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, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-14

FIELD SCREENING/MEASUREMENT RESULTS:

HE neg

Alpha \leq 11 dpm
Beta/Gamma \leq 2600 dpm

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

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) <i>[Signature]</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8024

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1435		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610781		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		2.0		SCREEN/PORT DESC:		UA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 LC	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 clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-14

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 2060 dpm

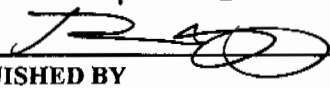
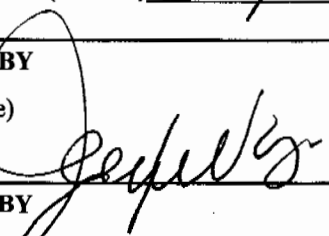
PID $\frac{\text{Ambient Reading}}{0.0}$ ppm

COLLECTED BY (PRINT)

T. McFarlane

REVIEWED BY (PRINT)

Grey A. Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8025

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		OBT3
TIME COLLECTED (HH:MM)		1504	SUB-MEDIA:		TUFF 1
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	15-610782	↓	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	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 1 liter 1/11/10 KC	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

FD: RE15-10-8066

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-12

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \pm 22 dpmBeta/Gamma \pm 180 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

ThMcFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Riley Crans (Signature)	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherri Shearwood (Signature)	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8026

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: QBT3		A11h	
TIME COLLECTED(HH:MM)		1515		SUB-MEDIA: TUFF 1		NA	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 15-610782		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10	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 slightly moist silty clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-12

FIELD SCREENING/MEASUREMENT RESULTS:

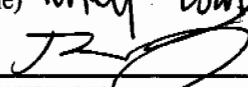

Alpha \leq 0 dpm
Beta/Gamma \leq 2010 dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Ricky Lewis (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8033

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1055		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	UNK	15-610773		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.8		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	72M 2/18/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		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 Liter 1/11/10 LC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC sample of RE15-10-8007
Brown moist silty sand

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-10 drainage HE neg

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 2010 dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Z...	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 2/16/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8065

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:	OBT3	SED
TIME COLLECTED (HH:MM)		1307	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	UNK	15-G10717	FIELD QC TYPE:	FD	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	SED	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+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAT POLY 1 liter 1/16/10 OK	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE1510-7895

Brown sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-17 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 27 dpm
Beta/Gamma \leq 2130 dpm

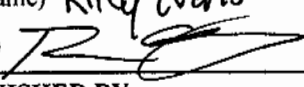
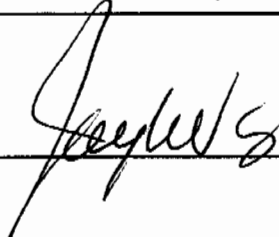
PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

ThMcFarlane

REVIEWED BY (PRINT)

Lorey A. Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8066

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1504		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: UNK		15-610782		FIELD QC TYPE:		FD	
LOCATION TYPE: GENERIC		ok		FIELD PREP:		NA	
TOP DEPTH: 0		0.0		SAMPLE USAGE:		QC	
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	Normal	72m 2/18/10 80827-NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		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 11 liter 1-11-10 OK	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-8025

moist brown silty sand, some clay

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-12

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 1810 dpm

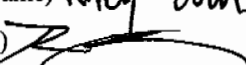

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Joe Roberson

RELINQUISHED BY (Printed Name) Wiley Gouns (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8086

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		NA	
TIME COLLECTED (HH:MM)		1240		SUB-MEDIA:		OTHER	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		DC	
LOCATION ID:	UNK	15-610777		FIELD QC TYPE:		ER	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:		UF	
TOP DEPTH:	0	↓		SAMPLE USAGE:		QC	
BOTTOM DEPTH:	0			SCREEN/PORT DESC:		NA	
FIELD MATRIX:	W			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		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 RE15-10-8016

SAMPLE COMMENTS:

~~FTB~~ Rinse
T3m 2/18/10

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

Alpha = ~~_____~~ dpm T3m 2/18/10
Beta/Gamma = ~~_____~~ dpm

PID ~~Ambient Reading~~ = ppm T3m 2/18/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy T	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherrish Sherwood (Signature) Sherrish Sherwood	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8088

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		1420		SUB-MEDIA:	OTHER		
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-010780		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 RE15-10-8022

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = ~~NA~~ dpm ^{NA} 2/18/10
 Beta/Gamma = ~~NA~~ dpm

PID ^{Ambient} Reading = ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Laney A. Lopez

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy A. T	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherrish Sherwood (Signature) Sherrish Sherwood	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8089

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: NA		ok	
TIME COLLECTED (HH:MM)		1042		SUB-MEDIA: OTHER			
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE: DC			
LOCATION ID:	UNK	15-610771		FIELD QC TYPE: ER			
LOCATION TYPE:	GENERIC	ok		FIELD PREP: UF			
TOP DEPTH:	0			SAMPLE USAGE: QC			
BOTTOM DEPTH:	0			SCREEN/PORT DESC:		NA	
FIELD MATRIX:	W			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		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

RE15-10-8004

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

Alpha = dpm ^{13m 2/18/10}
 Beta/Gamma = dpm

PID ^{Ambient} Reading = ppm ^{72m 2/18/10}

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jen Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>Sheri Sherwood</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Rad Screening Data Release Form

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

RE 15-10-7893

7894

8001

8002

8003

8004

8005

8006

8009

8010

8007

8008

RE 15-10-8011

8012

8013

8014

8015

8016

7895

7896

8017

8018

8019

8020

7897

RE 15-10-7898

8021

8022

8023

8024

7899

7900

8025

8026

8066

8065

8033

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):

RE 15-10-8086

8088

8089

Reason: Rinstate

Print Last Name McFarland

Signature Tracy Zuck

Date 2/18/10



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8013

ARS Sample ID: ARS2-10-00062-001

Sample Collection Date: 02/18/10 11:45

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	24.49	25.95	37.39	26.12		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	43.59	15.63	18.23	16.51		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	43.78	0.14	43.78		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	21.40	12.31	3.59	12.33		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.13	0.28	0.15	0.28		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.56	0.34	0.08	0.34		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.50	-2.18	0.38	-2.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.15	0.50	0.15	0.50		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.81	0.58	0.37	0.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.87	1.23	0.61	1.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	13.23	5.36	1.73	6.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.04	0.25	0.14	0.25		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 2.39

Quality Assurance Review

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NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8014

Sample Collection Date: 02/18/10 11:52

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00062-002

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

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	14.40	20.52	34.06	20.59		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	20.94	12.78	17.92	13.03		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	43.11	0.14	43.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	2.71	7.30	3.32	7.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.08	0.12	0.14	0.12		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.05	41.91	0.10	41.91		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	36.95	0.08	36.95		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.30	0.35	0.37	0.35		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.43	0.54	0.15	0.54		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.14	0.36	0.36	0.36		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.85	0.80	0.45	0.80		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.18	5.06	2.15	5.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.04	-0.41	0.12	-0.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.67

Matthew J. Edler
Quality Assurance Review

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133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8015

ARS Sample ID: ARS2-10-00062-003

Sample Collection Date: 02/18/10 12:09

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	17.26	21.39	32.75	21.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	77.63	19.44	18.31	21.64		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	35.80	0.11	35.80		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	20.25	7.79	1.23	7.82		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.10	0.12	0.12	0.12		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.07	0.09	0.11	0.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.42	0.26	0.07	0.26		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.05	0.09	0.31	0.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.74	0.37	0.12	0.37		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.15	0.88	0.30	0.89		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	2.28	1.08	0.52	1.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	7.80	4.08	1.51	4.45		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.06	0.23	0.12	0.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 4.14

Matthew L. Edm
Quality Assurance Review

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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8016

ARS Sample ID: ARS2-10-00062-004

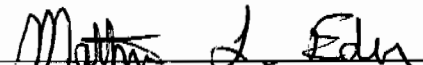
Sample Collection Date: 02/18/10 12:13

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	23.52	24.07	33.91	24.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	34.55	14.55	17.73	15.15		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.04	0.16	0.13	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	28.71	9.85	1.39	9.88		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.08	0.11	0.13	0.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.25	0.22	0.10	0.22		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.54	156.01	0.35	156.01		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.12	0.49	0.16	0.49		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.91	0.86	0.34	0.86		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.42	0.38	0.42	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	3.60	3.47	1.50	3.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.00	-0.14	0.09	-0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.22										


Quality Assurance Review

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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8017

ARS Sample ID: ARS2-10-00062-005


Sample Collection Date: 02/18/10 13:17

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	29.37	27.79	37.46	28.02		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	95.03	20.48	18.42	23.55		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	30.58	0.10	30.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	19.54	8.03	1.67	8.05		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.05	0.11	0.14	0.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.41	135.26	0.30	135.26		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.93	0.38	0.12	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.07	0.86	0.36	0.86		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.40	1.15	0.57	1.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	48.91	8.17	2.20	13.84		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.67	0.69	0.27	0.69		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 2.31										


Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8018

Sample Collection Date: 02/18/10 13:39

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00062-006

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

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	9.75	18.43	34.06	18.47		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	66.88	17.68	17.92	19.48		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	44.91	0.14	44.91		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.94	4.98	2.68	4.98		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.09	0.18	0.15	0.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.38	0.24	0.11	0.24		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.02	0.04	0.09	0.04		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.59	-3.11	0.41	-3.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.93	0.64	0.17	0.64		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	3.61	1.25	0.38	1.25		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	2.06	1.30	0.68	1.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	43.49	7.76	1.97	12.61		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.20	0.48	0.24	0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.93										

Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8019

Sample Collection Date: 02/18/10 13:20

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00062-007

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

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	17.26	21.39	32.75	21.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	45.07	16.17	18.31	17.08		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.05	52.03	0.17	52.03		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	30.52	11.54	1.79	11.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.17	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.07	50.59	0.12	50.59		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.36	0.30	0.10	0.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.08	-0.15	0.47	-0.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.86	0.54	0.22	0.54		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.32	1.18	0.44	1.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.14	0.85	0.64	0.85		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	7.04	4.82	1.89	5.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.07	0.23	0.13	0.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 1.66

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NELAP Certificate # E87558



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ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8020

Sample Collection Date: 02/18/10 13:27

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00062-008

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

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	18.91	22.31	33.89	22.43		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	42.25	15.42	17.91	16.27		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	42.91	0.14	42.91		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	17.38	12.48	3.82	12.49		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.22	0.16	0.10	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.05	0.10	0.08	0.10		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.01	0.02	0.37	0.02		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.56	0.63	0.23	0.63		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.86	0.48	0.36	0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.89	0.59	0.51	0.59		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.04	4.13	1.76	4.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.47	0.40	0.15	0.40		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 0.53										

M. Edwards
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ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8021

Sample Collection Date: 02/18/10 14:04

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00062-009

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

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	-0.22	14.30	37.46	14.30		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	40.79	15.04	18.42	15.84		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	46.56	0.15	46.56		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	25.36	9.95	1.60	9.97		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.28	0.18	0.13	0.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.54	0.34	0.09	0.34		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.60	-2.94	0.42	-2.94		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.58	0.60	0.17	0.60		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.71	0.90	0.39	0.90		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.50	0.39	0.53	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.93	3.82	1.69	3.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.03	0.14	0.08	0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.49										


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ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8022

Sample Collection Date: 02/18/10 14:10

Sample Matrix: Soil/Solid

Request or PO Number:


ARS Sample ID: ARS2-10-00062-010

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

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	5.17	16.04	34.07	16.06		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	25.34	13.23	18.08	13.59		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.05	46.87	0.15	46.87		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	36.33	11.95	1.62	11.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.06	45.57	0.11	45.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.05	0.17	0.10	0.17		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.29	0.35	0.41	0.35		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.49	0.63	0.18	0.63		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.55	1.32	0.39	1.32		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.04	0.07	0.61	0.07		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	10.62	5.23	1.73	5.76		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.16	0.20	0.09	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.34


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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8023

ARS Sample ID: ARS2-10-00062-011

Sample Collection Date: 02/18/10 14:24

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	17.26	21.39	32.75	21.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	36.70	15.22	18.31	15.87		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.04	0.14	0.12	0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.00	972.02	2.18	972.02		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.25	0.16	0.10	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.21	0.19	0.07	0.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.58	0.48	0.32	0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.42	0.50	0.15	0.51		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.00	136.13	0.31	136.13		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	-0.11	-0.48	0.46	-0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	1.93	3.16	1.46	3.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.41	0.38	0.14	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 2.18

M. A. S. Scler
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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8024

ARS Sample ID: ARS2-10-00062-012

Sample Collection Date: 02/18/10 14:33

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	23.52	24.07	33.91	24.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	30.24	14.05	17.73	14.53		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	29.00	10.96	1.70	10.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.06	48.08	0.11	48.08		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.17	0.20	0.09	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.67	191.41	0.43	191.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.28	0.60	0.21	0.60		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	2.01	1.42	0.41	1.42		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.17	1.38	0.64	1.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	2.08	3.93	1.85	3.96		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.04	46.83	0.11	46.83		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.34										

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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8025

ARS Sample ID: ARS2-10-00062-013

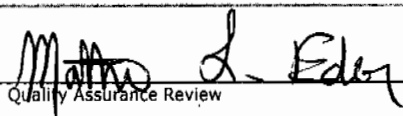
Sample Collection Date: 02/18/10 15:04

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	4.74	17.25	37.39	17.26		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	35.76	14.45	18.23	15.10		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	34.73	0.11	34.73		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	19.64	7.56	1.20	7.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.04	0.07	0.12	0.07		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.20	0.17	0.12	0.17		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.23	-0.51	0.33	-0.51		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.19	0.44	0.11	0.44		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.76	0.68	0.44	0.68		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.68	1.05	0.44	1.06		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	1.63	2.40	1.21	2.43		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.07	0.21	0.10	0.21		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 3.32										


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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8026

ARS Sample ID: ARS2-10-00062-014

Sample Collection Date: 02/18/10 15:15

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	-8.67	3.43	34.06	3.59		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	18.53	11.95	17.92	12.16		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	43.85	0.14	43.85		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	29.40	10.39	1.51	10.43		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.18	0.25	0.15	0.25		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.32	0.24	0.10	0.24		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.64	0.60	0.40	0.60		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.12	0.52	0.18	0.52		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.26	0.54	0.56	0.54		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.92	0.86	0.46	0.86		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.56	4.34	1.77	4.46		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.01	0.19	0.11	0.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.92

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ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8033

Sample Collection Date: 02/18/10 10:55

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00062-015

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

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	22.02	23.32	32.65	23.48		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	53.34	17.04	18.12	18.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	37.39	0.12	37.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	1.31	7.58	3.94	7.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.27	0.20	0.12	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.05	119.33	0.22	119.33		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.87	0.39	0.07	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.11	0.16	0.34	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.15	0.46	0.13	0.46		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.78	0.84	0.31	0.84		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.92	1.05	0.54	1.05		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	24.28	5.45	1.39	7.78		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.18	0.36	0.17	0.36		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 3.05

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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8065

ARS Sample ID: ARS2-10-00062-016

Sample Collection Date: 02/18/10 13:07

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	23.52	24.07	33.91	24.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	36.27	14.74	17.73	15.40		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.05	0.20	0.16	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.00	0.00	1.79	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.17	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.01	0.04	0.25	0.04		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.02	0.05	0.10	0.05		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.16	-0.33	0.47	-0.33		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.56	0.57	0.10	0.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.24	0.66	0.43	0.66		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.93	1.20	0.88	1.21		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	0.91	2.87	1.59	2.88		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.04	49.19	0.11	49.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.91


Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8066

ARS Sample ID: ARS2-10-00062-017

Sample Collection Date: 02/18/10 13:04

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

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	-0.17	14.27	37.46	14.27		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	21.95	12.81	18.42	13.09		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	34.18	0.11	34.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.84	8.53	3.88	8.53		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.04	0.08	0.07	0.08		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.21	-0.44	0.30	-0.44		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.26	0.45	0.13	0.46		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.00	0.00	0.29	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.42	0.38	0.35	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	6.70	4.98	1.83	5.21		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.19	0.24	0.10	0.24		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 2.22

Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2012 VALIDATION DATE: 04/19/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check


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


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

1. The ICAL RRF was < 0.05 but ≥ 0.01 for p-nitrotoluene. The associated sample results were NDs and, thus, qualified UJ,HE7b.
2. The CCV %Ds were $>20\%$ with positive bias for RDX; 2,4,6-trinitrotoluene, tetryl, 2,6-diamino-4-nitrotoluene and 2,4-diamino-6-nitrotoluene. The associated sample results were NDs and, thus, were not qualified.
3. The LCS %R for tetryl was $<$ the laboratory LAL but $\geq 10\%$. The associated sample results were NDs and, thus, were qualified UJ,HE12a.
4. It should be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate RT criteria could not be evaluated. No sample data were qualified as a result.

Reviewed by: Monica Dymerski Level I Date: 04/20/10

VALIDATOR'S SIGNATURE: Joanne Compton DATE: 04/19/10

DATA VALIDATION COVER SHEET	
5122-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1945
Form 5122-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE0b	R, HE0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The quantitating IS area count is <25% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow the method-specific windows.	R, HE1a	J, HE1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count for the quantitating IS is <70% but >25% of the average of that obtained from the calibration standards.	UJ, HE1b	J+, HE1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standards.	UJ, HE1c	J-, HE1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE1d	R, HE1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The surrogate is <10%R. Follow the external laboratory limits.	R, HE3	J-, HE3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The surrogate is < the Lower Acceptance Limit but ≥10% recovery. Follow the external laboratory limits.	UJ, HE3a	J-, HE3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The surrogate %R value is > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE3b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. At least one surrogate is > the Upper Acceptance Limit and one surrogate is < the Lower Acceptance Limit. Follow the external laboratory limits.	UJ, HE3c	J, HE3c

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST


5122-2

LC/MS/MS High Explosive Analytical Data Validation Checklist

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE3d	R, HE3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is ≤ 5 times the concentration of the related analyte in the method blank.	U, HE4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5x$.	N/A	J, HE4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, HE4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE4e	R, HE4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The absence of sample carry-over must be determined and verified.	N/A	R, N, HE4f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, HE7	J, HE7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is less < 0.99 .	UJ, R, HE7a	J, HE7a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of < 0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The mass spectral documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE8a	R, HE8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, HE9	J-, HE9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The holding time was >2 times the applicable holding time requirement.	R, HE9a	J-, HE9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.)	UJ, R, HE15	R, HE15
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. The sample was diluted because target analytes were > the initial verification calibration.	UJ, HE15a	J, HE15a

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

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, HE19	J, R, HE19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408051a

Date Analyzed: 09-APR-10 22:10

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- UJ,HE7b ene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220098.wiff

Date Analyzed: 23-MAR-10 16:39

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8013

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408054a

Date Analyzed: 09-APR-10 23:39

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8013

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220101.wiff

Date Analyzed: 23-MAR-10 17:26

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8026

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408055a

Date Analyzed: 10-APR-10 00:08

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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8026

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220102.wiff

Date Analyzed: 23-MAR-10 17:42

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 =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8017

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408056a

Date Analyzed: 10-APR-10 00:38

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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8017

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220103.wiff

Date Analyzed: 23-MAR-10 17:57

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8025

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408057a

Date Analyzed: 10-APR-10 01:07

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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8025

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220107.wiff

Date Analyzed: 23-MAR-10 19:00

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8022

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408058a

Date Analyzed: 10-APR-10 01:37

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8022

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220108.wiff

Date Analyzed: 23-MAR-10 19:16

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8014

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408062a

Date Analyzed: 10-APR-10 03:35

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 UJ,HE7b	500	U

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8014

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220109.wiff

Date Analyzed: 23-MAR-10 19:32

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8023

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408063a

Date Analyzed: 10-APR-10 04:04

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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8023

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220110.wiff

Date Analyzed: 23-MAR-10 19:47

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8020

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408064a

Date Analyzed: 10-APR-10 04:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8020

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220111.wiff

Date Analyzed: 23-MAR-10 20:03

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8018

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408065a

Date Analyzed: 10-APR-10 05:03

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8018

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220112.wiff

Date Analyzed: 23-MAR-10 20:19

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8015

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408066a

Date Analyzed: 10-APR-10 05:33

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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8015

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220113.wiff

Date Analyzed: 23-MAR-10 20:34

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8021

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904012

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408067a

Date Analyzed: 10-APR-10 06:02

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8021

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220114.wiff

Date Analyzed: 23-MAR-10 20:50

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8024

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408068a

Date Analyzed: 10-APR-10 06:32

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8024

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220115.wiff

Date Analyzed: 23-MAR-10 21:06

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 =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8016

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408069a

Date Analyzed: 10-APR-10 07:01

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8016

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220116.wiff

Date Analyzed: 23-MAR-10 21:22

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8065

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904015

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408070a

Date Analyzed: 10-APR-10 07:31

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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8065

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904015

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290014.wiff

Date Analyzed: 29-MAR-10 12:23

Units: ug/kg

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

*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution Factor
Sample Amount

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8066

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904016

Sample Amount 2

Moisture: 19.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408071a

Date Analyzed: 10-APR-10 08:00

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	UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8066

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904016

Sample Amount 2

Moisture: 19.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290015.wiff

Date Analyzed: 29-MAR-10 12:39

Units: ug/kg

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

*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution Factor
Sample Amount

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8033

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904017

Sample Amount 2

Moisture: 24.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408075a

Date Analyzed: 10-APR-10 09:58

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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 UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8033

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904017

Sample Amount 2

Moisture: 24.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290016.wiff


Date Analyzed: 29-MAR-10 12:55

Units: ug/kg

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

*Concentration =

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

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

Section I.

REQUEST NUMBER: 10-2012 VALIDATION DATE: 04/19/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

☐ OTHER (DESCRIBE): PCBs

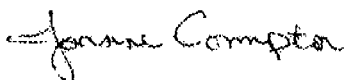
Section II. Completeness Check

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

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

1. It should be noted that the matrix QC were performed on samples from another LANL RN and the parent sample raw data were not included in the data package. No sample data were qualified as a result.

Reviewed by: Monica Dymerski **Level I** **Date:** 04/20/10

VALIDATOR'S SIGNATURE:  DATE: 04/19/10

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


5116-2

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

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST	
5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)			Assign Qualifier Listed Below If Criterion = Yes	Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The breakdown criteria have been exceeded. This can cause high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.	UJ, P13a	J+, P13a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The breakdown documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P13b	R, P13b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, P4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X.	N/A	J, P4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P4e	R, P4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P0b	R, P0b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The surrogate is $<10\%R$. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3

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

5116-2

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

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but $\geq 10\%R$. Follow the external laboratory limits located within the associated data package.	UJ, P3a	J-, P3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. At least one surrogate is > the Upper Acceptance Limit (UAL) and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, P3c	J, P3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P3d	R, P3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, P12	J-, P12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, P12a	J-, P12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P12c	R, P12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30. The second dissimilar column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P8a	R, P8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. Duplicate, Dilution, or reanalysis.	UJ, P88	J, P88

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

5116-2

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

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, P15	R, P15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, P19	J, R, P19

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2012
Lab Sample ID: 247904017

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 24.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8033
Batch ID: 959468
Run Date: 03/02/2010 11:19
Prep Date: 03/01/2010 23:33
Data File: 016f1601.d
016b1601.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.39	ug/kg	1.46	4.39	1
11104-28-2	Aroclor-1221	U	4.39	ug/kg	1.46	4.39	1
11141-16-5	Aroclor-1232	U	4.39	ug/kg	1.46	4.39	1
53469-21-9	Aroclor-1242	U	4.39	ug/kg	1.46	4.39	1
12672-29-6	Aroclor-1248	U	4.39	ug/kg	1.46	4.39	1
11097-69-1	Aroclor-1254	U	4.39	ug/kg	1.46	4.39	1
11096-82-5	Aroclor-1260	U	4.39	ug/kg	1.46	4.39	1

PCB

Page 1 of 1

Certificate of Analysis
Sample Summary

SDG Number:	10-2012	Date Collected:	02/18/2010 12:00	Matrix:	R
Lab Sample ID:	247904015	Date Received:	02/24/2010 08:50	%Moisture:	9.2
Client ID:	RE15-10-8065	Client:	LANL010	Project:	LANL01004
Batch ID:	959468	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	03/02/2010 10:54	Inst:	ECD8A.I	Dilution:	1
Prep Date:	03/01/2010 23:33	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	014f1401.d	Aliquot:	30.05 g	Final Volume:	1 mL
	014b1401.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	U	3.67	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	U	3.67	ug/kg	1.22	3.67	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-2012
Lab Sample ID: 247904016Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8AJ
Analyst: JAOC
Aliquot: 30.1 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 19.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.11	ug/kg	1.37	4.11	1
11104-28-2	Aroclor-1221	U	4.11	ug/kg	1.37	4.11	1
11141-16-5	Aroclor-1232	U	4.11	ug/kg	1.37	4.11	1
53469-21-9	Aroclor-1242	U	4.11	ug/kg	1.37	4.11	1
12672-29-6	Aroclor-1248	U	4.11	ug/kg	1.37	4.11	1
11097-69-1	Aroclor-1254	U	4.11	ug/kg	1.37	4.11	1
11096-82-5	Aroclor-1260	U	4.11	ug/kg	1.37	4.11	1

Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2012

LOS ALAMOS

REQUEST NUMBER: 10-2012

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/25/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247904%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8019	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8013	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8026	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8017	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8025	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8022	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8014	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8023	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8020	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8018	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8015	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8021	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8024	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8016	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8065	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8066	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8033	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

2/23/10 1400

Printed Name

Signature

Patricia Dove-Dent P.H.D. 2/24/10 08:50

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Tuesday, February 23, 2010
LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis
General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

These Samples are on:
LANL Request Number: 10-2012
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/23/2010
TURNAROUND/REPORT DUE: 3/25/2010
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	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
	SW-846:8321A_MOD	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	

REQUEST NUMBER: 10-2012

Tuesday, February 23, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	

Final Page of REQUEST NUMBER 10-2012



March 02, 2010

www.gel.com

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

Re: LANL ER Project
Work Order: 247904
SDG: 10-2012

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 24, 2010, and analyzed for Explosives by LCMSMS and GC Semivolatile PCB. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-2012
Enclosures

Los Alamos National Laboratory (72733-001-09)

LANL ER Project

Work Order #: 247904

SDG: 10-2012

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247904
SDG # : 10-2012**

March 02, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 24, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

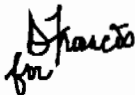
<u>Laboratory ID</u>	<u>Client ID</u>
247904001	RE15-10-8019
247904002	RE15-10-8013
247904003	RE15-10-8026
247904004	RE15-10-8017
247904005	RE15-10-8025
247904006	RE15-10-8022
247904007	RE15-10-8014
247904008	RE15-10-8023
247904009	RE15-10-8020
247904010	RE15-10-8018
247904011	RE15-10-8015
247904012	RE15-10-8021
247904013	RE15-10-8024
247904014	RE15-10-8016
247904015	RE15-10-8065
247904016	RE15-10-8066
247904017	RE15-10-8033

Case Narrative

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

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

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

A handwritten signature in black ink, appearing to read "for Valerie Davis".

Valerie Davis

Project Manager

List of current GEL Certifications as of 02 March 2010

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

Chain of Custody and Supporting Documentation

Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2012

LOS ALAMOS

REQUEST NUMBER: 10-2012

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/25/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247904%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8019	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8013	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8026	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8017	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8025	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8022	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8014	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8023	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8020	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8018	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8015	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8021	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8024	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8016	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8065	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8066	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8033	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Tuesday, February 23, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/23/2010

TURNAROUND/REPORT DUE: 3/25/2010

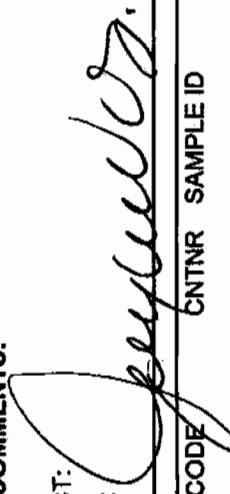
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:

LANL Request Number: 10-2012

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
	SW-846:8321A_MOD	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	

Tuesday, February 23, 2010

Page 2 of 2
REQUEST NUMBER: 10-2012

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	

Final Page of REQUEST NUMBER 10-2012

SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-2012	
Received By: Greg Tyler		Date Received: 2/24/10	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60cpm
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1-5C 11,13C
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11 Number of containers received match number indicated on COC?	X			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	X			

Comments:
Fed Ex Tracking Numbers:

7209 7850 1768 1C 7209 7850 1702 11C
 7209 7850 1757 1C 7209 7850 1713 13C
 7209 7850 1805 2C 7209 7850 1724 13C
 7209 7850 1790 3C
 7209 7850 1735 3C
 7209 7850 1746 4C
 7209 7850 1779 5C
 7209 7850 1780 5C

ORIGIN ID: SAFA (505) 655-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2450

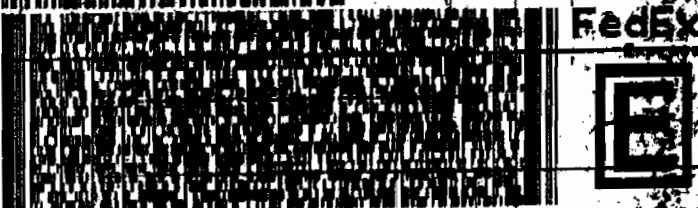
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-9171
REF: 68010AMR3A05529E00

10



of 2
TRKH 7209 7850 1768
NM MASTER NM

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 655-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-9171
REF: 68010AMR3A05529E00

20



RKH 7209 7850 1805

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

KX CHSA

10 of 653

ORIGIN ID: SAFA (505) 655-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

SHIP DATE: 23FEB10
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

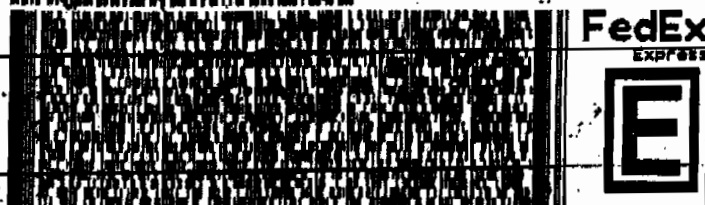
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-9171
REF: 68010AMR3A05529E00

10



2 of 2
TRKH 7209 7850 1757
NM MASTER NM

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 655-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-9171
REF: 68010AMR3A05529E00

radioactive



2 of 2
TRKH 7209 7850 1790
NM MASTER NM

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB18
ACTWGT: 53.9 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

ORIGIN ID: SAFA (505) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB18
ACTWGT: 55.6 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

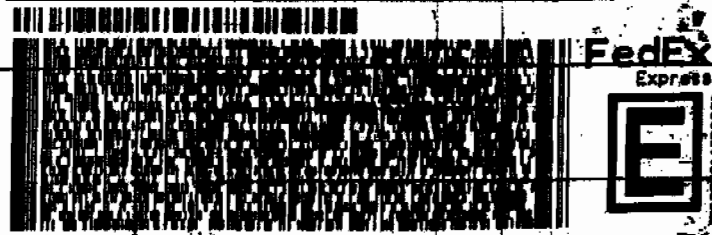
CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05528E00

3°

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05528E00

4°



2 of 2 WED - 24FEB A1
MPSH 7209 7850 1735
8263
Matr-N 7209 7850 1724 0201
XX CHSA
29407
SC-US
CHS

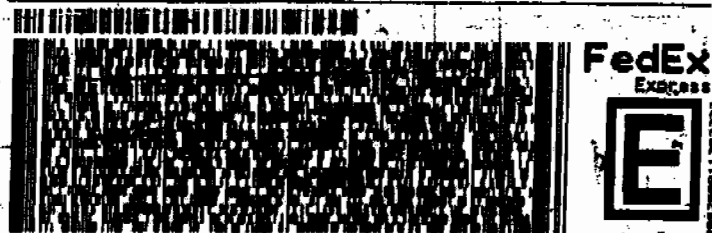


LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US
BILL SENDER

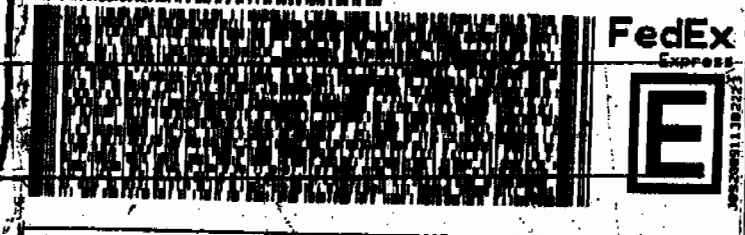
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05529E00

5°



2 of 2 WED - 24FEB A1
MPSH 7209 7850 1779
8263
Matr-N 7209 7850 1768 0201
XX CHSA
29407
SC-US
CHS



1 of 2 WED - 24FEB A1
TRKH 7209 7850 1746
8201
NN MASTER NN
XX CHSA
29407
SC-US
CHS

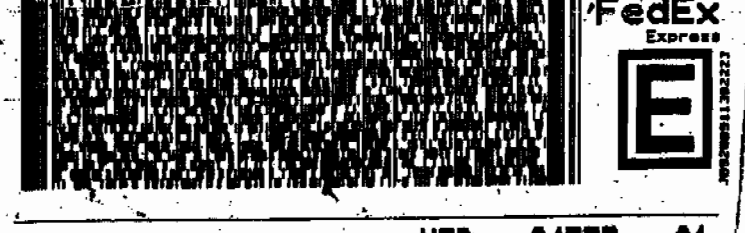


LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05529E00

5°



1 of 2 WED - 24FEB A1
TRKH 7209 7850 1780
8201
NN MASTER NN
XX CHSA
29407
SC-US
CHS



ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 57.8 LB MAN
CAD: 0014176/CAPE2450
BILL SENDER

ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAPE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AAREN0130DM00

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A0223KY10



2 of 2
MPSN 7209 7850 1702
Matr# 7209 7850 1800 (0201)

WED - 24FEB A1
PRIORITY OVERNIGHT

TRK# 7209 7850 1713
(0201)

WED - 24FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

XX CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 43.0 LB MAN
CAD: 0014176/CAPE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR2A0515BYDO



2 of 2
TRK# 7209 7850 1724
(0201)
NN MASTER NN

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier	Explanation
-----------	-------------

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

LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2012**

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: 957702

Prep Batch Number: 957701

Sample Analysis

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

Sample ID	Client ID
247904001	RE15-10-8019
247904002	RE15-10-8013
247904003	RE15-10-8026
247904004	RE15-10-8017
247904005	RE15-10-8025
247904006	RE15-10-8022
247904007	RE15-10-8014
247904008	RE15-10-8023
247904009	RE15-10-8020
247904010	RE15-10-8018
247904011	RE15-10-8015
247904012	RE15-10-8021
247904013	RE15-10-8024
247904014	RE15-10-8016
247904015	RE15-10-8065
247904016	RE15-10-8066
247904017	RE15-10-8033
1202053631	Method Blank (MB)
1202053632	Laboratory Control Sample (LCS)
1202053633	247904001(RE15-10-8019) Matrix Spike (MS)
1202053634	247904001(RE15-10-8019) 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 did not meet spike recovery limits for Tetryl at 36.1%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported. Please see data exception report 816024.

QC Sample Designation

Sample 247904001 (RE15-10-8019) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Internal Standard (ISTD) Acceptance

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

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

Sample Re-extraction/Re-analysis

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

Secondary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 247904001 (RE15-10-8019) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Internal Standard (ISTD) Acceptance

The internal standards were not added to the secondary analyte extracts.

Technical Information**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

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

Sample Re-extraction/Re-analysis

Samples 247904015 (RE15-10-8065), 247904016 (RE15-10-8066) and 247904017 (RE15-10-8033) were re-analyzed due to a CVS failing acceptance criteria. The re-analysis passed acceptance criteria and is reported.

Miscellaneous Information**Data Exception (DER) Documentation**

Data exception report 816024 was generated for this SDG.

The LCS did not meet spike recovery limits for Tetryl at 36.1%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported.

Manual Integrations

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

Flagging Convention

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

Additional Comments

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

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

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

System Configuration

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

Chromatographic Columns

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

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

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

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

Certification Statement

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

Review Validation:

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

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

Reviewer: Harold M. Mauer Date: 04/12/10

SAMPLE DATA SUMMARY

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408051a

Date Analyzed: 09-APR-10 22:10

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 =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220098.wiff

Date Analyzed: 23-MAR-10 16:39

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8013

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408054a

Date Analyzed: 09-APR-10 23:39

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8013

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220101.wiff

Date Analyzed: 23-MAR-10 17:26

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8026

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408055a

Date Analyzed: 10-APR-10 00:08

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8026

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220102.wiff

Date Analyzed: 23-MAR-10 17:42

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 =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8017

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408056a

Date Analyzed: 10-APR-10 00:38

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 =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8017

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220103.wiff

Date Analyzed: 23-MAR-10 17:57

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8025

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408057a

Date Analyzed: 10-APR-10 01:07

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 =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8025

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220107.wiff

Date Analyzed: 23-MAR-10 19:00

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8022

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408058a

Date Analyzed: 10-APR-10 01:37

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8022

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220108.wiff

Date Analyzed: 23-MAR-10 19:16

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8014

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408062a

Date Analyzed: 10-APR-10 03:35

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8014

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220109.wiff

Date Analyzed: 23-MAR-10 19:32

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8023

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408063a

Date Analyzed: 10-APR-10 04:04

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8023

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220110.wiff

Date Analyzed: 23-MAR-10 19:47

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8020

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408064a

Date Analyzed: 10-APR-10 04:34

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8020

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220111.wiff

Date Analyzed: 23-MAR-10 20:03

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8018

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408065a

Date Analyzed: 10-APR-10 05:03

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8018

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220112.wiff

Date Analyzed: 23-MAR-10 20:19

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8015

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408066a

Date Analyzed: 10-APR-10 05:33

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8015

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220113.wiff

Date Analyzed: 23-MAR-10 20:34

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8021

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408067a

Date Analyzed: 10-APR-10 06:02

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8021

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220114.wiff

Date Analyzed: 23-MAR-10 20:50

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8024

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408068a

Date Analyzed: 10-APR-10 06:32

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8024

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220115.wiff

Date Analyzed: 23-MAR-10 21:06

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 =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8016

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408069a

Date Analyzed: 10-APR-10 07:01

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8016

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220116.wiff

Date Analyzed: 23-MAR-10 21:22

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8065

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904015

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408070a

Date Analyzed: 10-APR-10 07:31

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8065

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904015

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290014.wiff

Date Analyzed: 29-MAR-10 12:23

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8066

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904016

Sample Amount 2

Moisture: 19.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408071a

Date Analyzed: 10-APR-10 08:00

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8066

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904016

Sample Amount 2

Moisture: 19.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290015.wiff

Date Analyzed: 29-MAR-10 12:39

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8033

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904017

Sample Amount 2

Moisture: 24.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408075a

Date Analyzed: 10-APR-10 09:58

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8033

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904017

Sample Amount 2

Moisture: 24.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290016.wiff

Date Analyzed: 29-MAR-10 12:55

Units: ug/kg

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

*Concentration =

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

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247904001	RE15-10-8019	103	70 - 144	
247904001	RE15-10-8019	106	70 - 144	
247904002	RE15-10-8013	108	70 - 144	
247904002	RE15-10-8013	100	70 - 144	
247904003	RE15-10-8026	105	70 - 144	
247904003	RE15-10-8026	102	70 - 144	
247904004	RE15-10-8017	99.5	70 - 144	
247904004	RE15-10-8017	102	70 - 144	
247904005	RE15-10-8025	119	70 - 144	
247904005	RE15-10-8025	100	70 - 144	
247904006	RE15-10-8022	103	70 - 144	
247904006	RE15-10-8022	101	70 - 144	
247904007	RE15-10-8014	113	70 - 144	
247904007	RE15-10-8014	98.4	70 - 144	
247904008	RE15-10-8023	104	70 - 144	
247904008	RE15-10-8023	94.8	70 - 144	
247904009	RE15-10-8020	112	70 - 144	
247904009	RE15-10-8020	102	70 - 144	
247904010	RE15-10-8018	105	70 - 144	
247904010	RE15-10-8018	96.4	70 - 144	
247904011	RE15-10-8015	108	70 - 144	
247904011	RE15-10-8015	105	70 - 144	
247904012	RE15-10-8021	107	70 - 144	
247904012	RE15-10-8021	102	70 - 144	
247904013	RE15-10-8024	99.7	70 - 144	
247904013	RE15-10-8024	98.4	70 - 144	
247904014	RE15-10-8016	111	70 - 144	
247904014	RE15-10-8016	103	70 - 144	
247904015	RE15-10-8065	101	70 - 144	
247904015	RE15-10-8065	118	70 - 144	
247904016	RE15-10-8066	100	70 - 144	
247904016	RE15-10-8066	115	70 - 144	
247904017	RE15-10-8033	106	70 - 144	
247904017	RE15-10-8033	109	70 - 144	
1202053631	MB for batch 957701	100	70 - 144	
1202053631	MB for batch 957701	110	70 - 144	
1202053632	LCS for batch 957701	105	70 - 144	

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
1202053632	LCS for batch 957701	117	70 - 144	
1202053633	RE15-10-8019(247904001MS)	102	70 - 144	
1202053633	RE15-10-8019(247904001MS)	101	70 - 144	
1202053634	RE15-10-8019(247904001MSD)	106	70 - 144	
1202053634	RE15-10-8019(247904001MSD)	103	70 - 144	

DNT = 3,4-Dinitrotoluene

3B

High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-2012

Extract Batch Code: 957701

Date Extracted: 01-MAR-10

GEL LCS ID: 1202053632

GEL LCSDUP ID:

Analysis Date/Time: 09-APR-10 21:41

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
1,3,5-Trinitrobenzene	5000	4240	84.9					69 - 126
2,4,6-Trinitrotoluene	5000	4970	99.3					73 - 149
2,4-Dinitrotoluene	5000	4440	88.8					87 - 137
2,6-Dinitrotoluene	5000	4870	97.4					89 - 120
2-Amino-4,6-dinitrotoluene	5000	5230	105					90 - 130
4-Amino-2,6-dinitrotoluene	5000	4820	96.3					84 - 130
HMX	5000	5400	108					58 - 138
Nitrobenzene	5000	4500	90					71 - 122
PETN	5000	5390	108					64 - 137
RDX	5000	5650	113					81 - 137
Tetryl	5000	1800	36.1 *					51 - 112
m-Dinitrobenzene	5000	4990	99.9					83 - 122
m-Nitrotoluene	5000	4200	84					73 - 118
o-Nitrotoluene	5000	4410	88.2					72 - 119
p-Nitrotoluene	5000	4760	95.3					67 - 131

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

* Values outside of QC limits

High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-2012

Extract Batch Code: 957701

Date Extracted: 01-MAR-10

GEL LCS ID: 1202053632

GEL LCSDUP ID:

Analysis Date/Time: 23-MAR-10 16:23

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	4460	89.2					52 - 114
2,6-Diamino-4-nitrotoluene	5000	4700	94					64 - 122
3,5-Dinitroaniline	5000	5210	104					70 - 127
tris(o-cresyl) phosphate	5000	5420	108					84 - 119
TATB	7500	7510	100					28 - 162

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

* Values outside of QC limits

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Extract Batch Code: 957701

Date Extracted: 01-MAR-10

GEL Spike ID: 1202053633

GEL SpikeDup ID: 1202053634

Analysis Date/Time: 09-APR-10 22:40

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
o-Nitrotoluene	5000	0	4330	86.5	4290	85.9	.775	30	69 - 123
2-Amino-4,6-dinitrotoluene	5000	0	5250	105	5430	109	3.46	30	85 - 137
HMX	5000	0	4890	97.7	5140	103	5.14	30	51 - 144
PETN	5000	0	5160	103	5230	105	1.44	30	60 - 140
m-Nitrotoluene	5000	0	4100	82	4040	80.7	1.56	30	70 - 120
m-Dinitrobenzene	5000	0	4710	94.3	4860	97.1	3.02	30	85 - 118
Tetryl	5000	0	3070	61.4	2540	50.7	19	30	36 - 124
RDX	5000	0	5160	103	5400	108	4.61	30	59 - 152
Nitrobenzene	5000	0	4340	86.7	4530	90.5	4.28	30	70 - 122
4-Amino-2,6-dinitrotoluene	5000	0	5040	101	4900	98	2.91	30	72 - 143
2,6-Dinitrotoluene	5000	0	4890	97.8	5000	100	2.22	30	90 - 118
1,3,5-Trinitrobenzene	5000	0	4610	92.2	4730	94.5	2.51	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	5300	106	5140	103	2.96	30	76 - 144
2,4-Dinitrotoluene	5000	0	4880	97.6	5040	101	3.16	30	86 - 135
p-Nitrotoluene	5000	0	4490	89.7	4440	88.9	.916	30	65 - 133

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

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Extract Batch Code: 257701

Date Extracted: 01-MAR-10

GEL Spike ID: 1202053633

GEL SpikeDup ID: 1202053634

Analysis Date/Time: 23-MAR-10 16:55

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	3210	64.2	3870	77.4	18.6	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	4420	88.4	4880	97.6	9.89	30	55 - 130
3,5-Dinitroaniline	5000	0	4540	90.8	4770	95.4	4.94	30	73 - 129
TATB	7500	39.3	8400	111	7740	103	8.18	30	29 - 155
tris(o-cresyl) phosphate	5000	52.2	5300	105	5400	107	1.87	30	72 - 127

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

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-APR-10 21:32

GEL Data File: EXP0408001a

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	505.174
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	503.22
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

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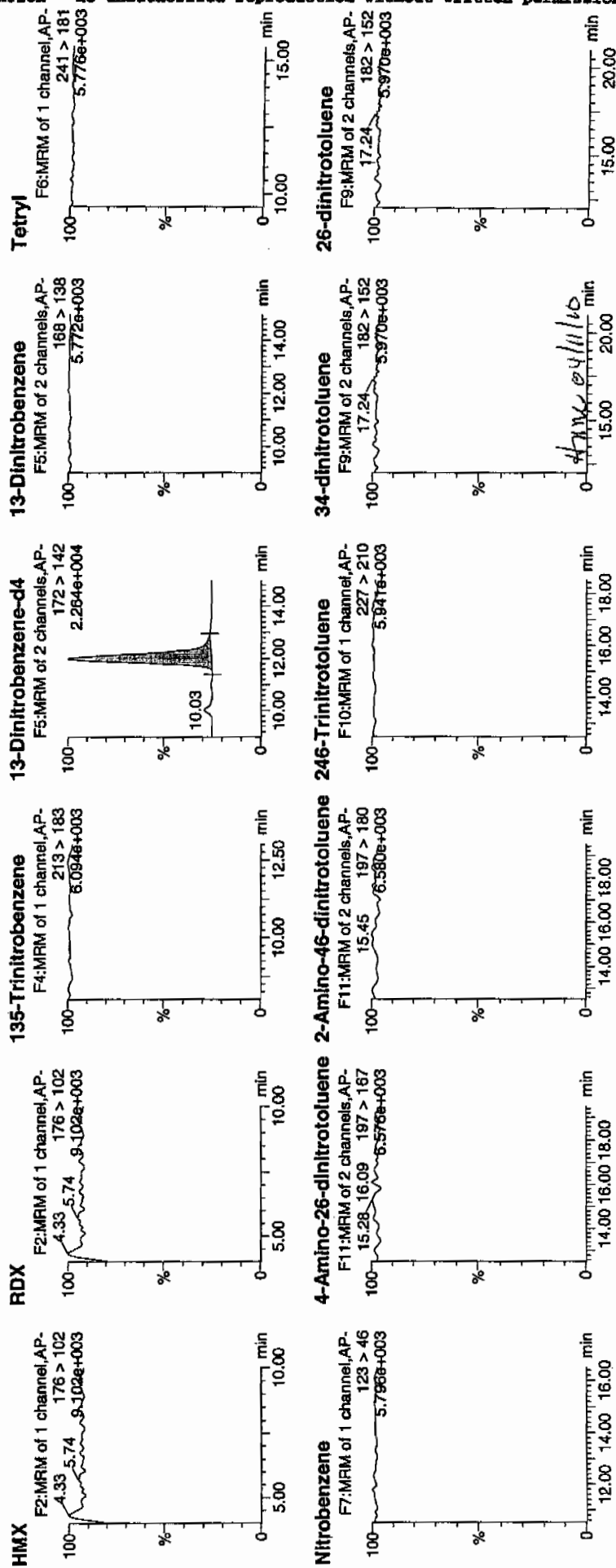
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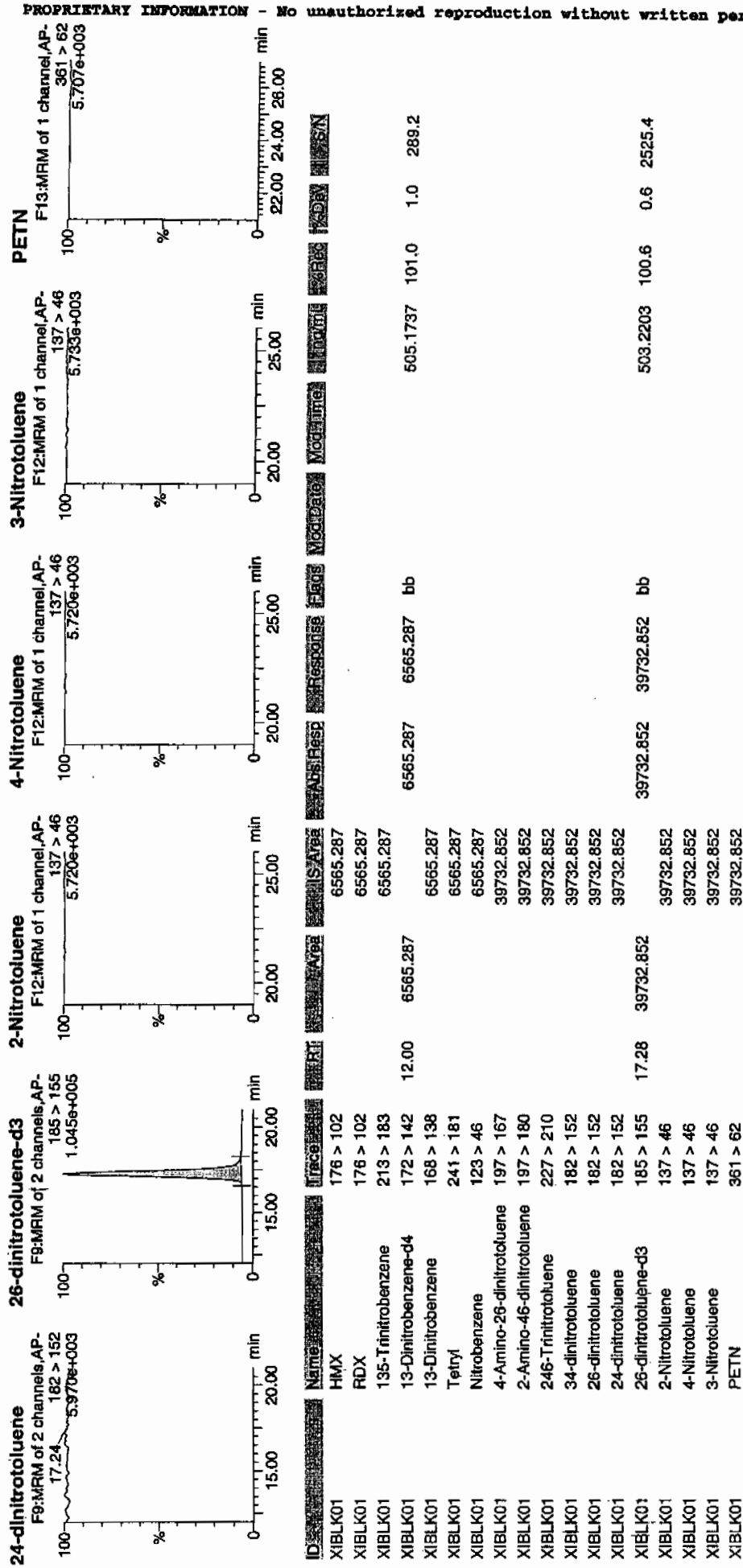


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 2 of 51

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010



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Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-APR-10 22:02

GEL Data File: EXP0408002a

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	589.589
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	523.733
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0

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

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Date: 08-Apr-2010

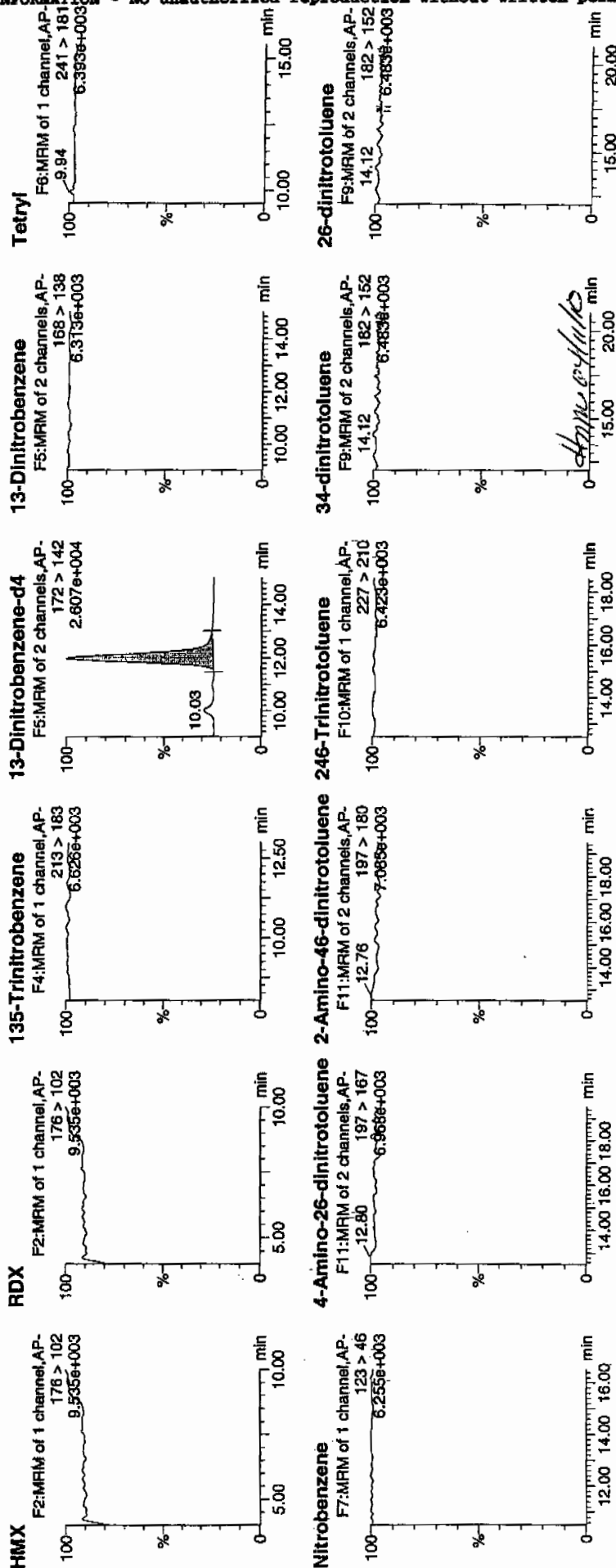
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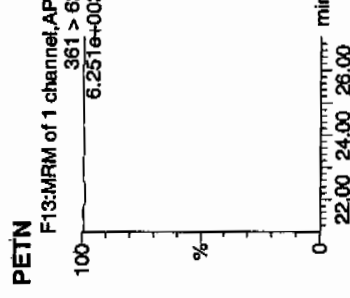
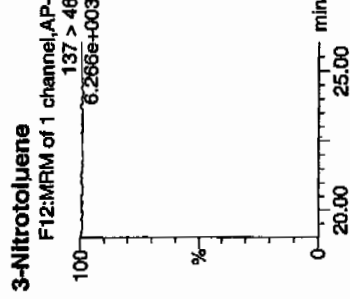
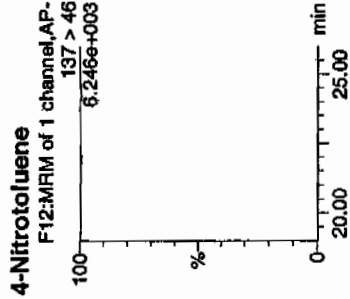
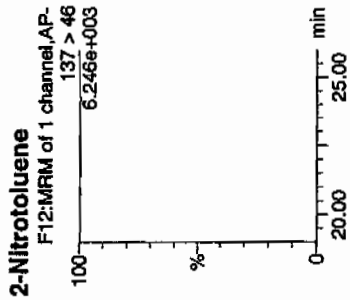
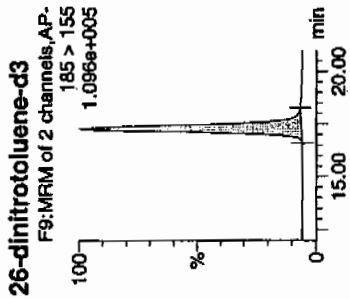
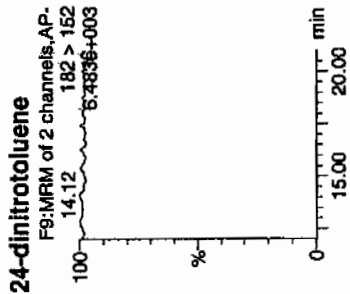
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XIBLK01	HMX	176 > 102		7682.359							
XIBLK01	RDX	176 > 102		7682.359							
XIBLK01	135-Trinitrobenzene	213 > 183		7682.359							
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.00	7662.359	7662.359	bb				589.5891	117.9 17.9 617.0
XIBLK01	13-Dinitrobenzene	168 > 138		7662.359							
XIBLK01	Tetryl	241 > 181		7662.359							
XIBLK01	Nitrobenzene	123 > 46		7662.359							
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167		41352.492							
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180		41352.492							
XIBLK01	246-Trinitrotoluene	227 > 210		41352.492							
XIBLK01	34-dinitrotoluene	182 > 152		41352.492							
XIBLK01	26-dinitrotoluene	182 > 152		41352.492							
XIBLK01	24-dinitrotoluene	182 > 152		41352.492							
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.29	41352.492	41352.492	bb	MM-	09-Apr-10 10:45:40		523.7332	104.7 4.7 3147.8
XIBLK01	2-Nitrotoluene	137 > 46		41352.492							
XIBLK01	4-Nitrotoluene	137 > 46		41352.492							
XIBLK01	3-Nitrotoluene	137 > 46		41352.492							
XIBLK01	PETN	361 > 62		41352.492							

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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-MAR-10 15:12

GEL Data File: EXS03220001.wiff

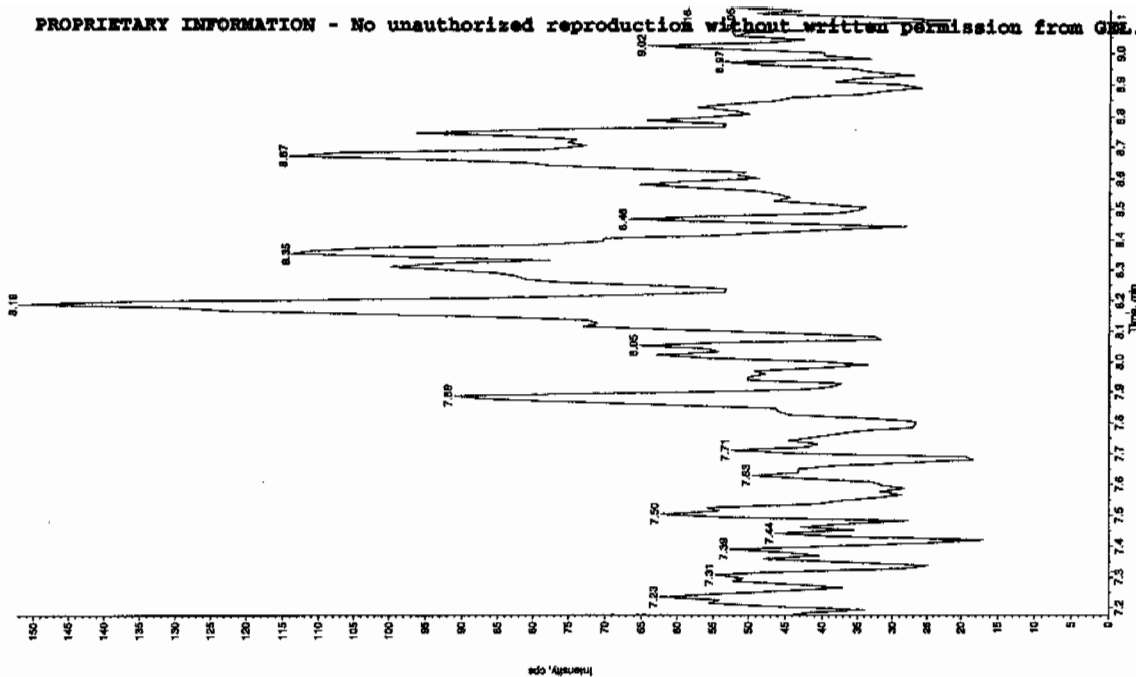
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

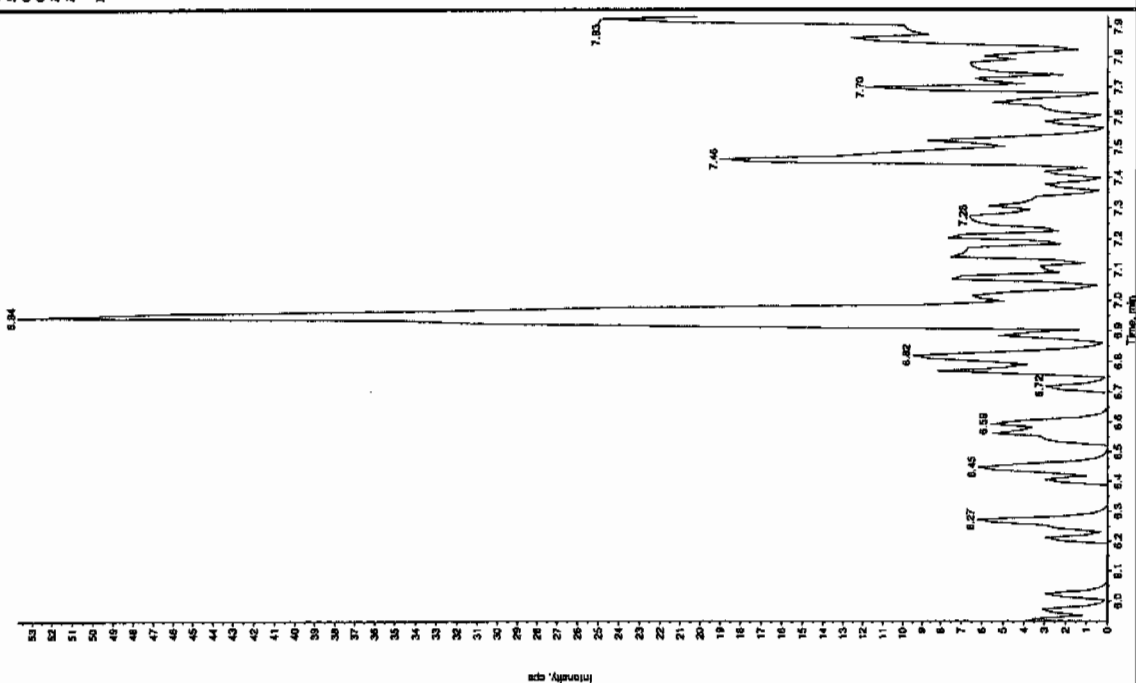
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Can 3/27/10

Sample Name: "XBLK01" Sample ID: "11LER" File: "EXS03220001.wif"
Peak Name: "35-Ornithine" Mass(es): "102.046.0 amu"
Comment: "LCMS-EXP_B" Annotation: "2"
Sample Index: "1"
Sample Type: "Unknown"
Concentration: "0.00 ng/mL"
Calculated Conc: "3/22/2010"
Acq. Date: "3:12:56 PM"
Acq. Time: "3:12:56 PM"
Modified: "No"



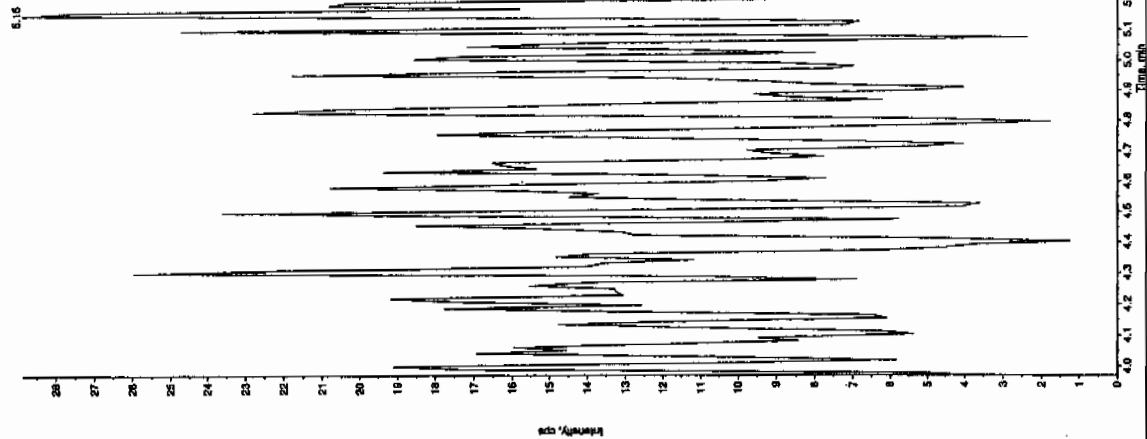
Sample Name: "XBLK01" Sample ID: "11LER" File: "EXS03220001.wif"
Peak Name: "TAIB" Mass(es): "257.2004.9 amu"
Comment: "LCMS-EXP_B" Annotation: "2"
Sample Index: "1"
Sample Type: "Unknown"
Concentration: "0.00 ng/mL"
Calculated Conc: "3/22/2010"
Acq. Date: "3:12:56 PM"
Acq. Time: "3:12:56 PM"
Modified: "No"



Can 3/27/10

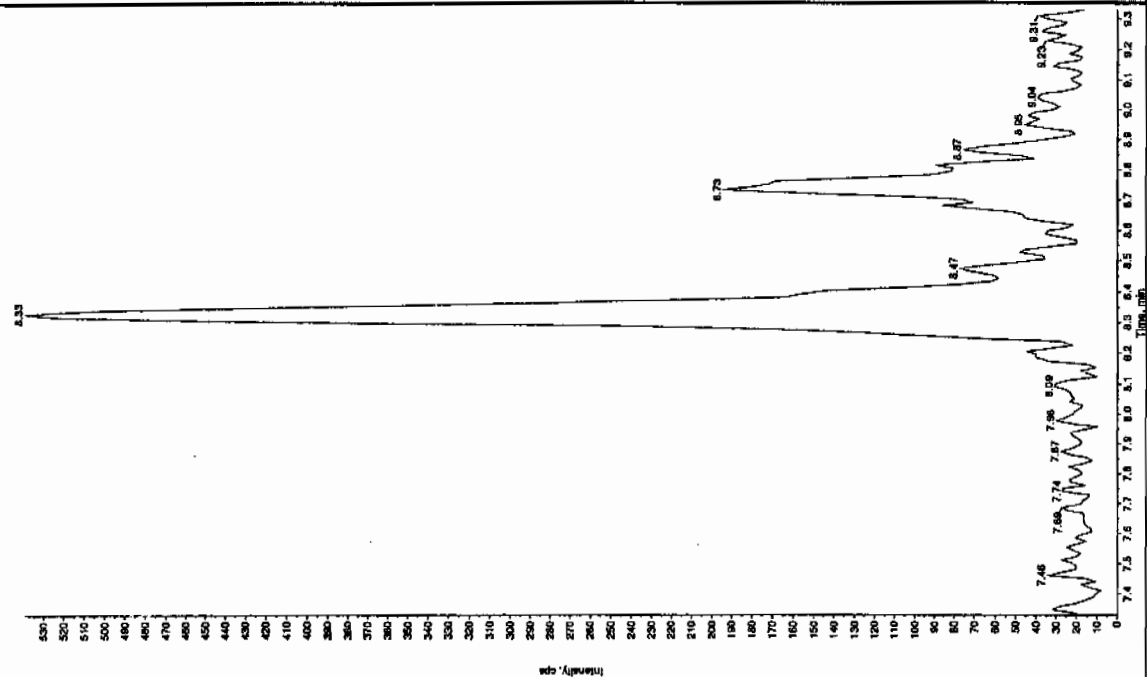
Sample Name: "XIBL001" Sample ID: "11111" File: "EX030220001.wif"
 Peak Name: "28-Diamino-4-nitroindole" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XIBL001" Sample ID: "11111" File: "EX030220001.wif"
 Peak Name: "54-Dinitroindole" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

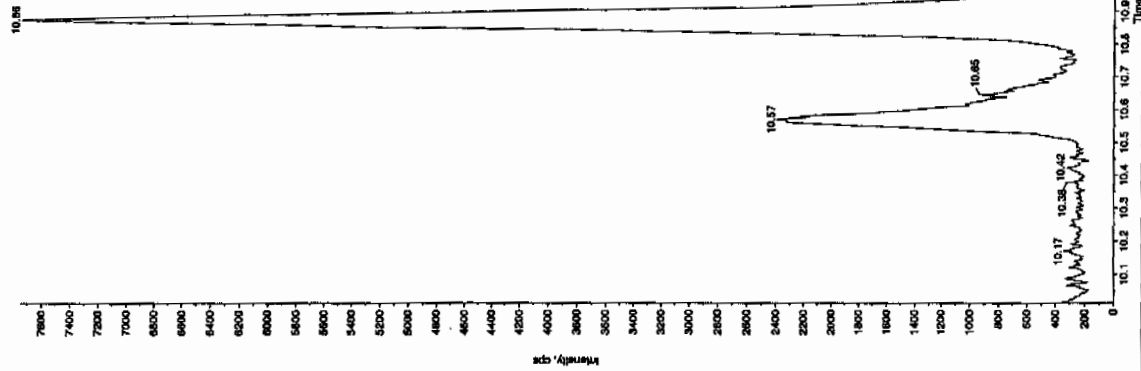
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 3:12:56 PM
 Modified: No



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

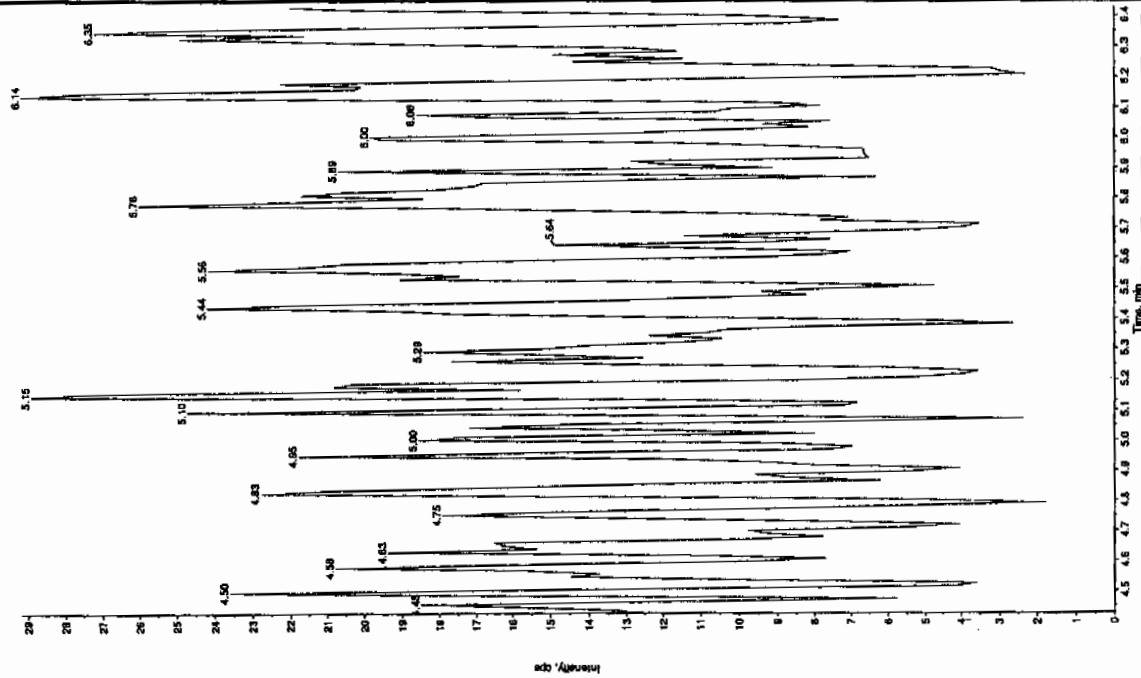
Sample Name: "XIBLK01" Sample ID: "11LER" File: "EXS03220001.wif"
 Peak Name: "tris(2-creyl) phosphatidyl" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

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



Sample Name: "XIBLK01" Sample ID: "11LER" File: "EXS03220001.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

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



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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-MAR-10 15:28

GEL Data File: EXS03220002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

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

Ken 3/27/10

Sample Name: "XBLK01" Sample ID: "T1LER" File: "EX03022002.wif"

Peak Name: "36-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LOWEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

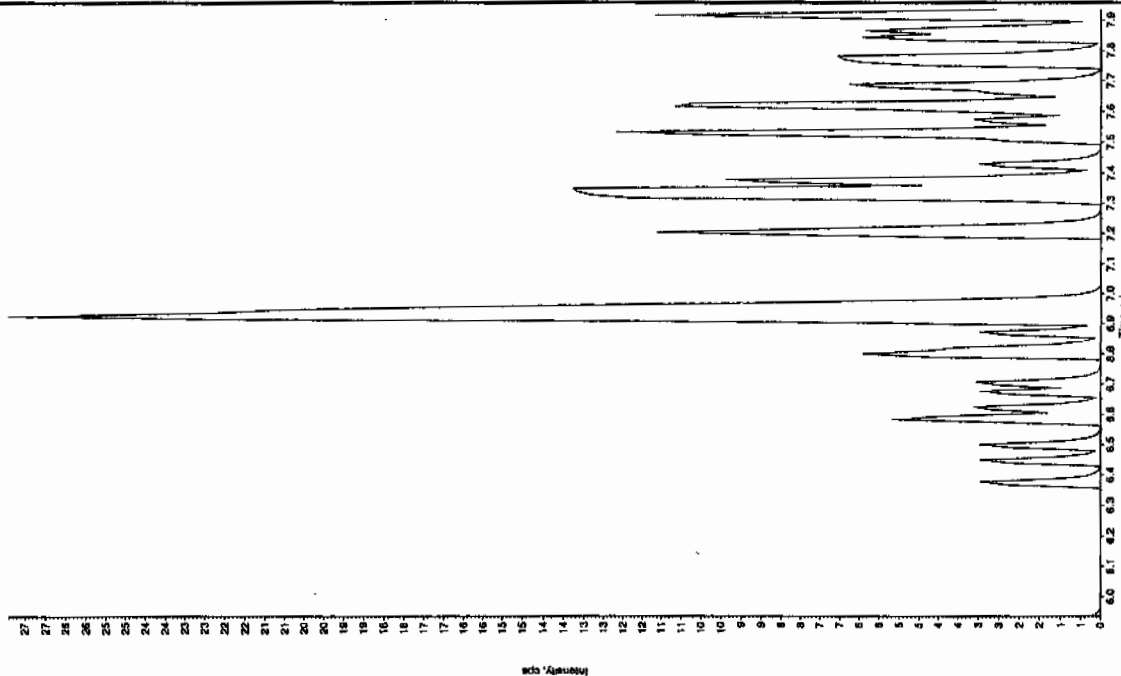
Concentration: N/A

Calculated Conc: 0.00 ug/mL

Acq. Date: 3/22/2010

Acq. Time: 3:28:45 PM

Modified: No



Sample Name: "XBLK01" Sample ID: "T1LER" File: "EX03022002.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LOWEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

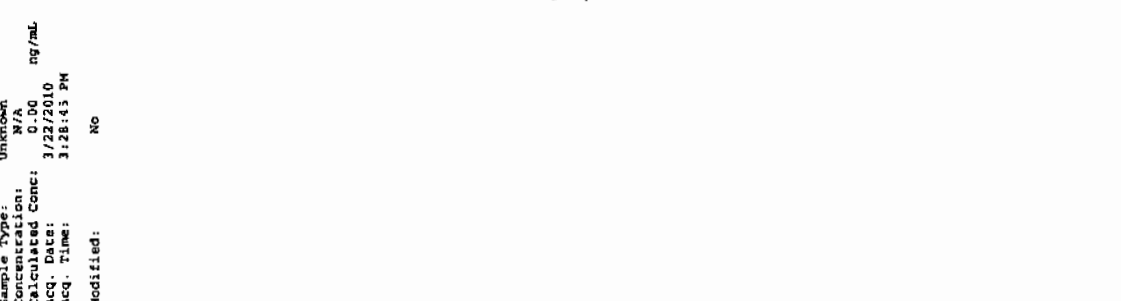
Concentration: N/A

Calculated Conc: 0.00 ug/mL

Acq. Date: 3/22/2010

Acq. Time: 3:28:43 PM

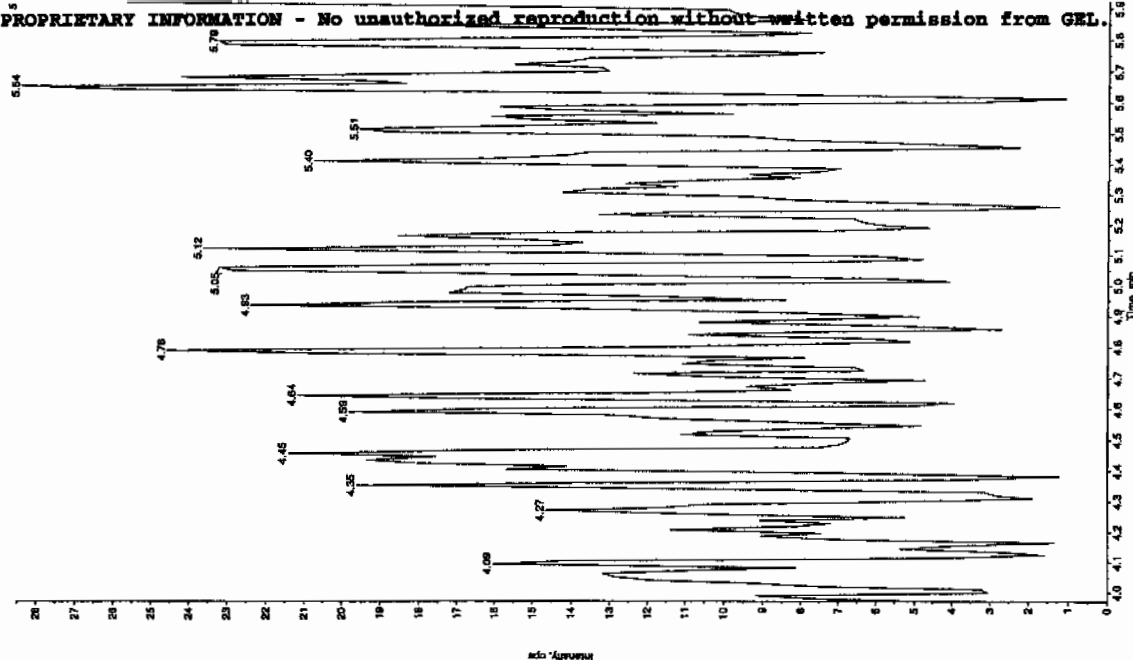
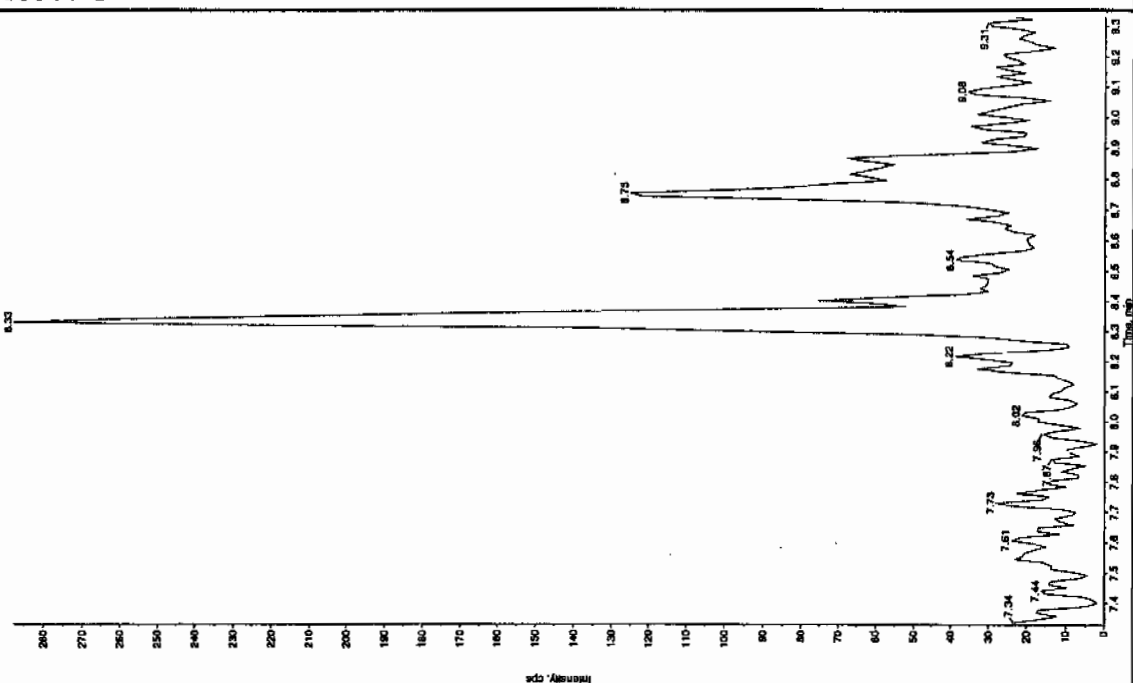
Modified: No



Ken 03/29/10

Sample Name: "XBLK01" Sample ID: "111111" File: "EXS03220002.wif"
 Peak Name: "25-Dimethyl-4-nitrobenzene" Mass(es): "185.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



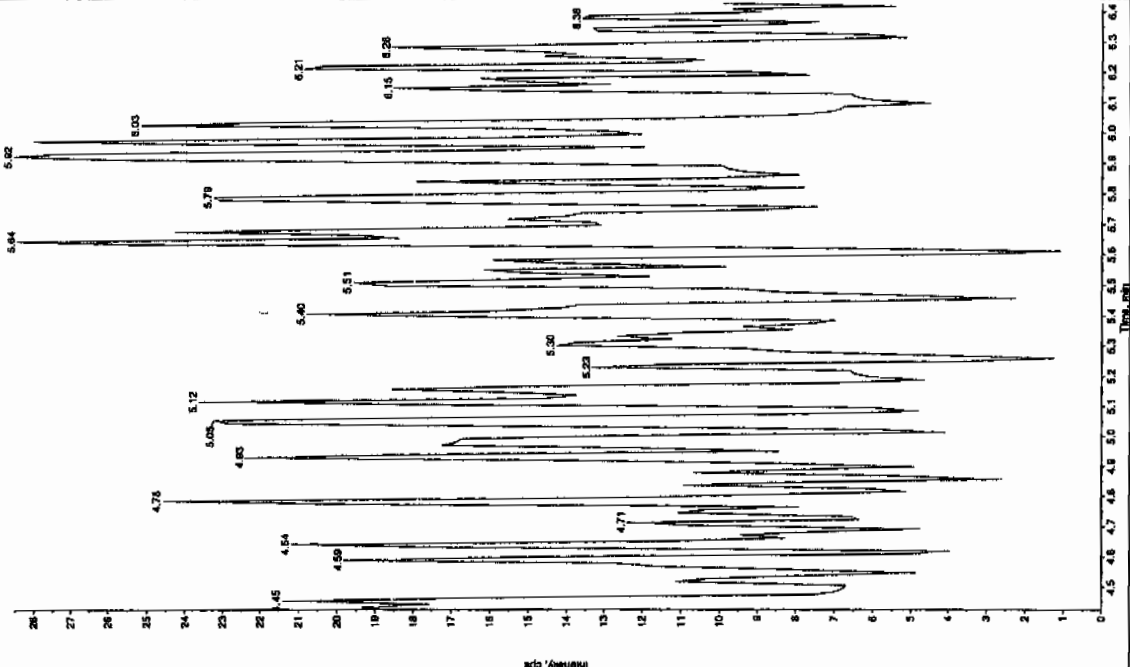
Sample Name: "XBLK01" Sample ID: "JILLER" File: "EX03022002.will"
 Peak Name: "bis(o-nitro) phosphate" Mass(es): "359.1791.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XBLK01" Sample ID: "JILLER" File: "EX03022002.will"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0461.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



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

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 29-MAR-10 08:59

GEL Data File: EXS03290001.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	2.11
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX00290001.wif"

Peak Name: "35-Dinitrobenzidine" Mass(es): "182.048.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/29/2010

Acq. Time: 8:59:38 AM

Modified: No

Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX00290001.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

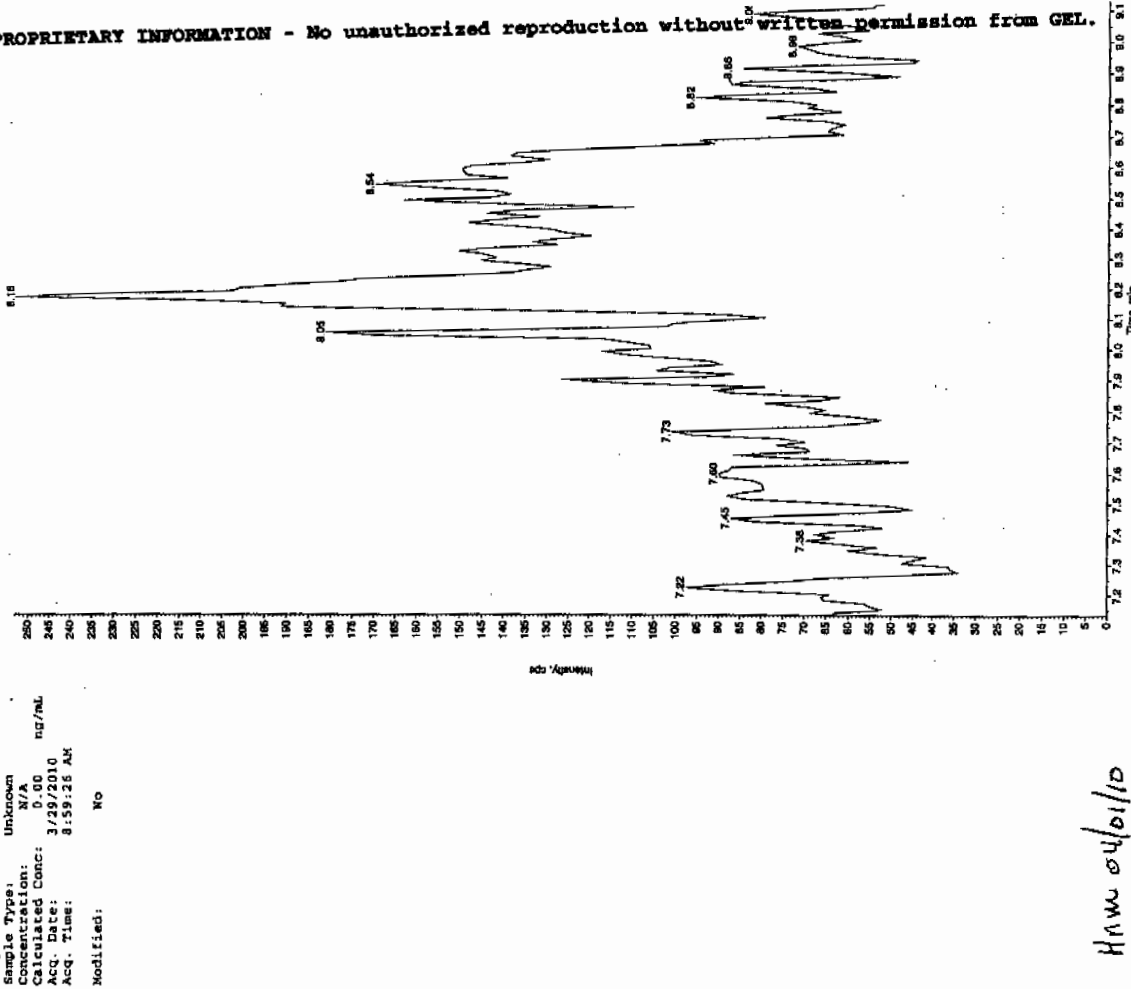
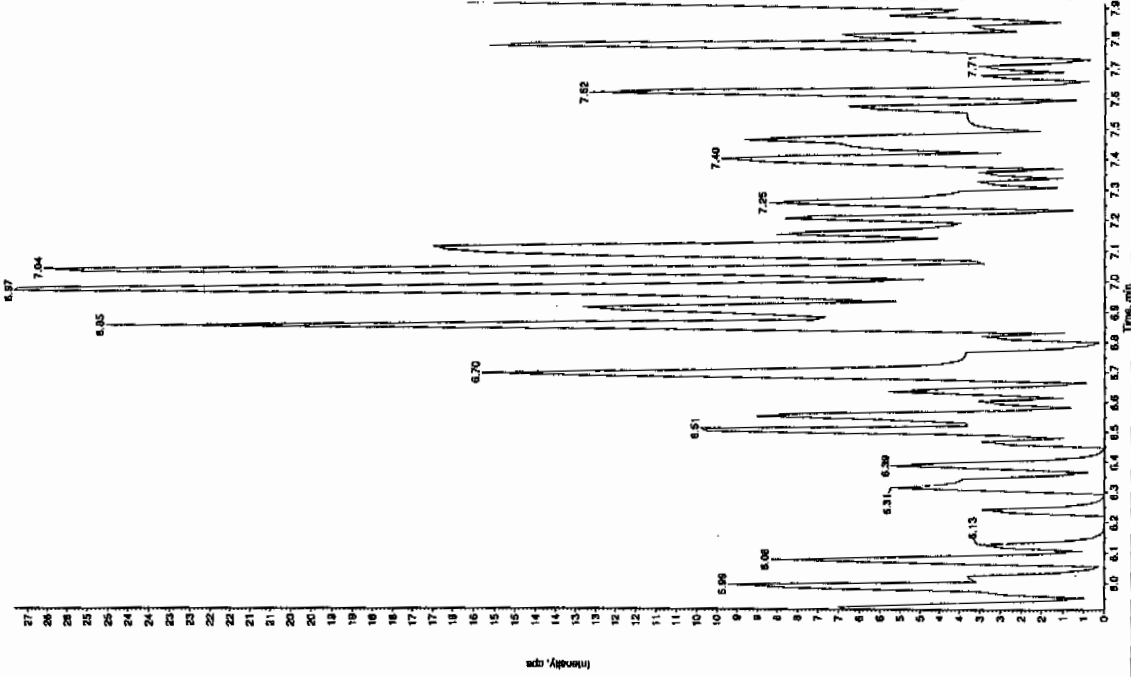
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/29/2010

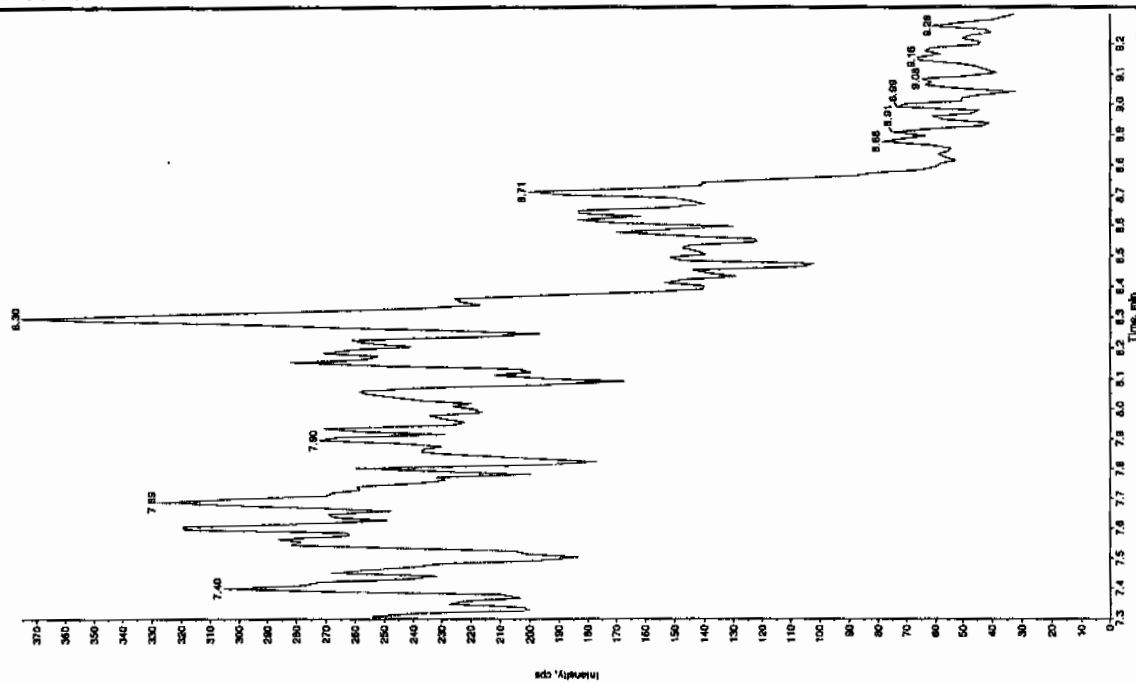
Acq. Time: 8:59:38 AM

Modified: No



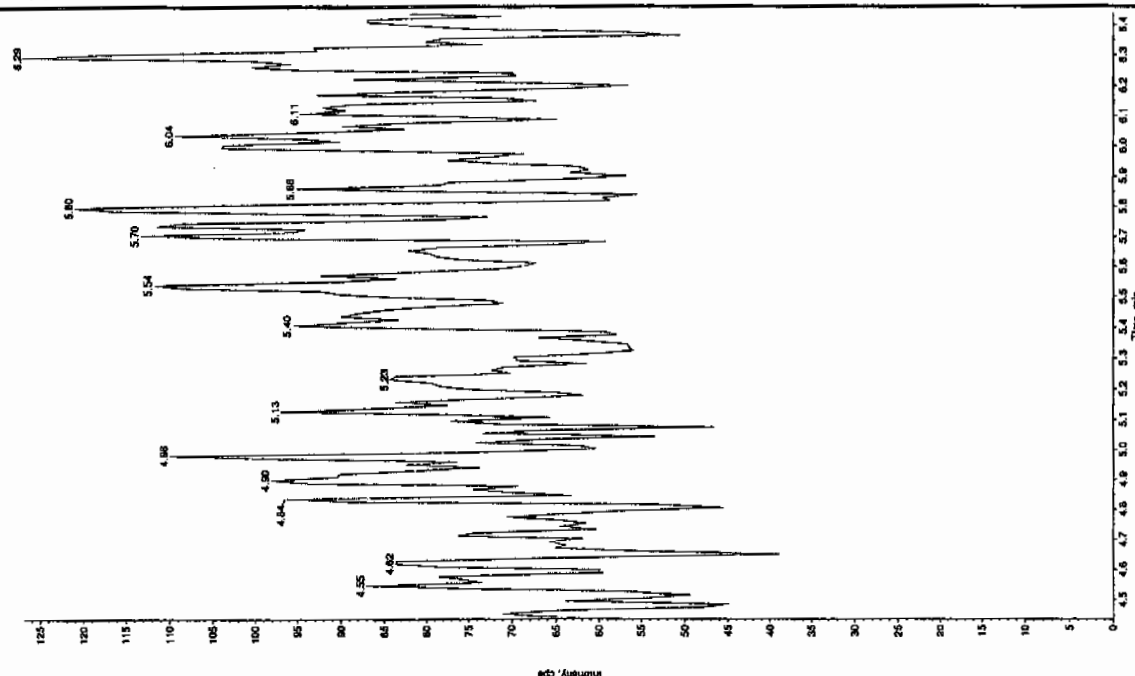
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

HW 04/01/10



Sample Name: "XBLK01" Sample ID: "11LBR" File: "EX03280001.wif"
 Peak Name: "bis(2-ethylphenyl) phosphine" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:59:26 AM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 5.75e+004 counts
 Height: 14016.801 cps
 Start Time: 10.7 min
 End Time: 10.9 min



Sample Name: "XBLK01" Sample ID: "11LBR" File: "EX03280001.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "196.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:59:26 AM
 Modified: NO

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

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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 29-MAR-10 09:15

GEL Data File: EXS03290002.wiff

Instrument ID: LCMSMS

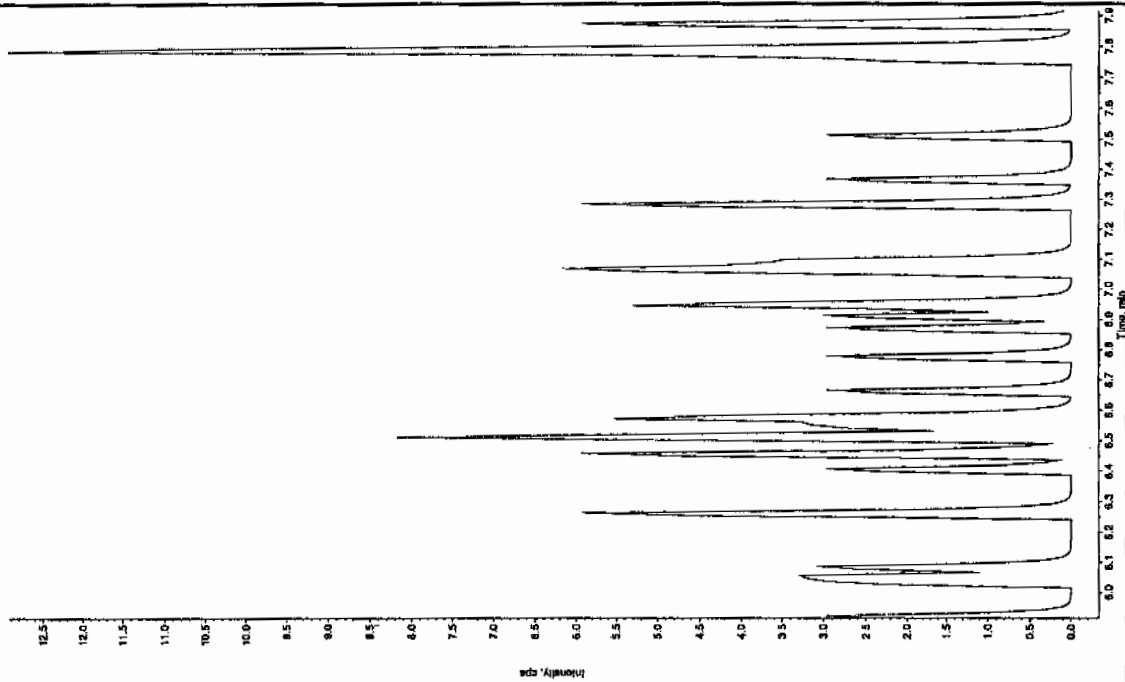
Column: Phenomenex Ultracarb 5u ODS(20)

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

for 9/1/10

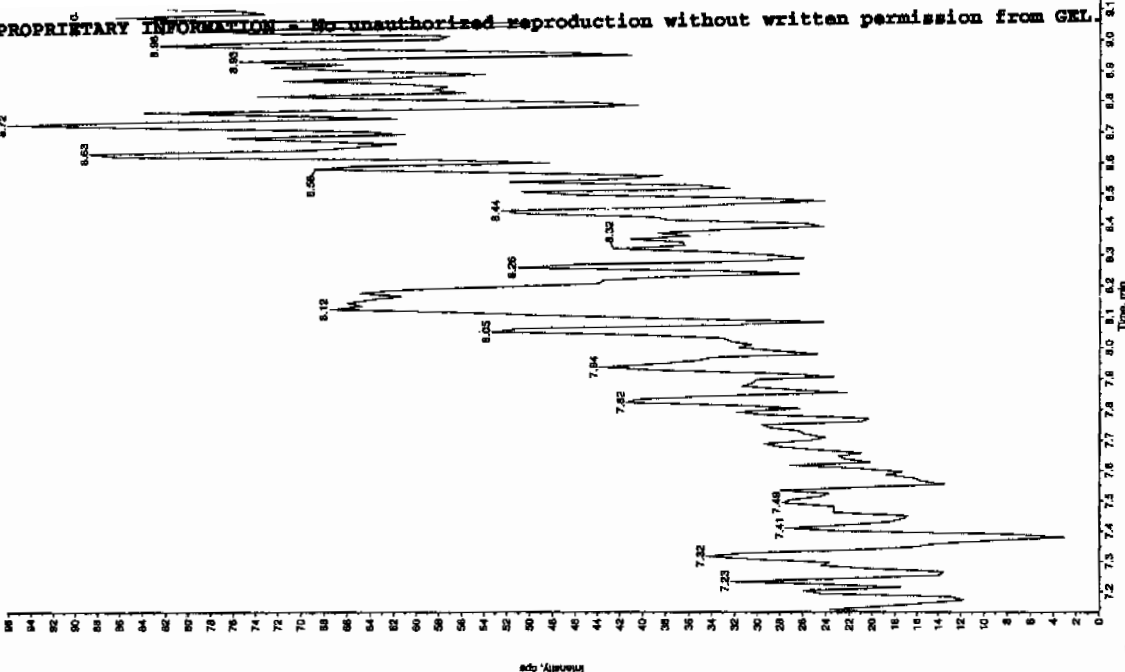
Sample Name: 'XBLK01' Sample ID: '111ER' File: 'EX03200002.wiff'
 Peak Name: 'TATB' Mass(es): '257.2014.9 amu'
 Comment: 'CONSEXP_5' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/29/2010
 Acq. Date: 9:15:15 AM
 Acq. Time: 5:15:15 AM
 Modified: No



Sample Name: 'XBLK01' Sample ID: '111ER' File: 'EX03200002.wiff'
 Peak Name: 'CONSEXP_5' Mass(es): '182.0460 amu'
 Comment: 'CONSEXP_5' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/29/2010
 Acq. Date: 5:15:15 AM
 Acq. Time: 5:15:15 AM
 Modified: No

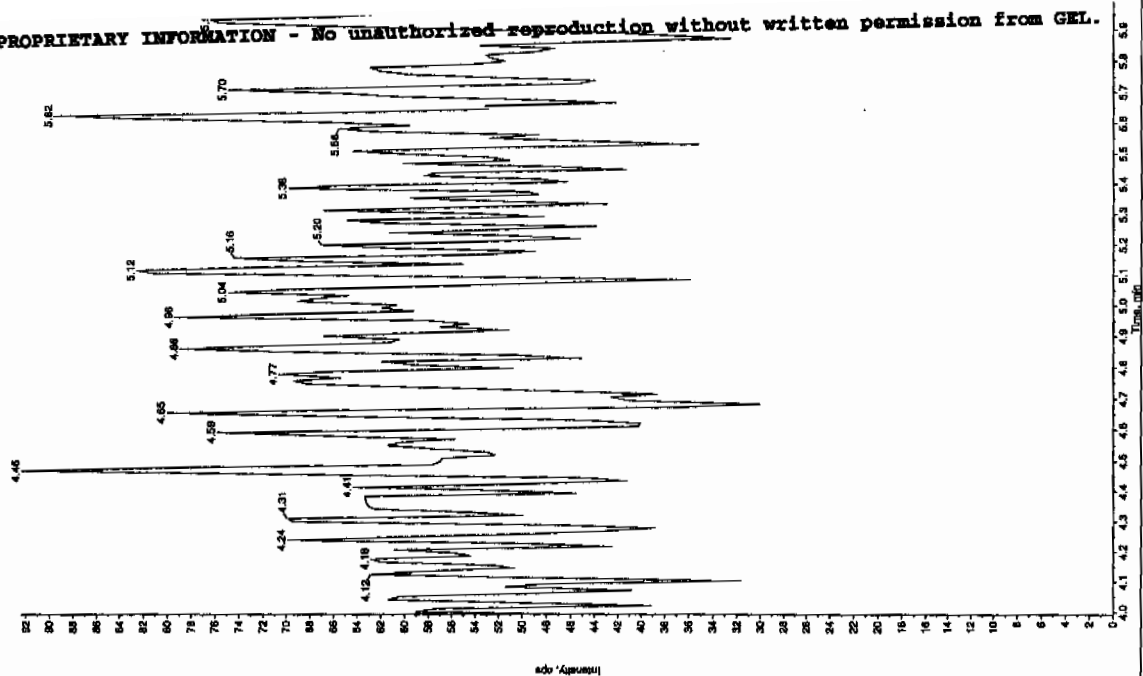


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

for 9/1/10

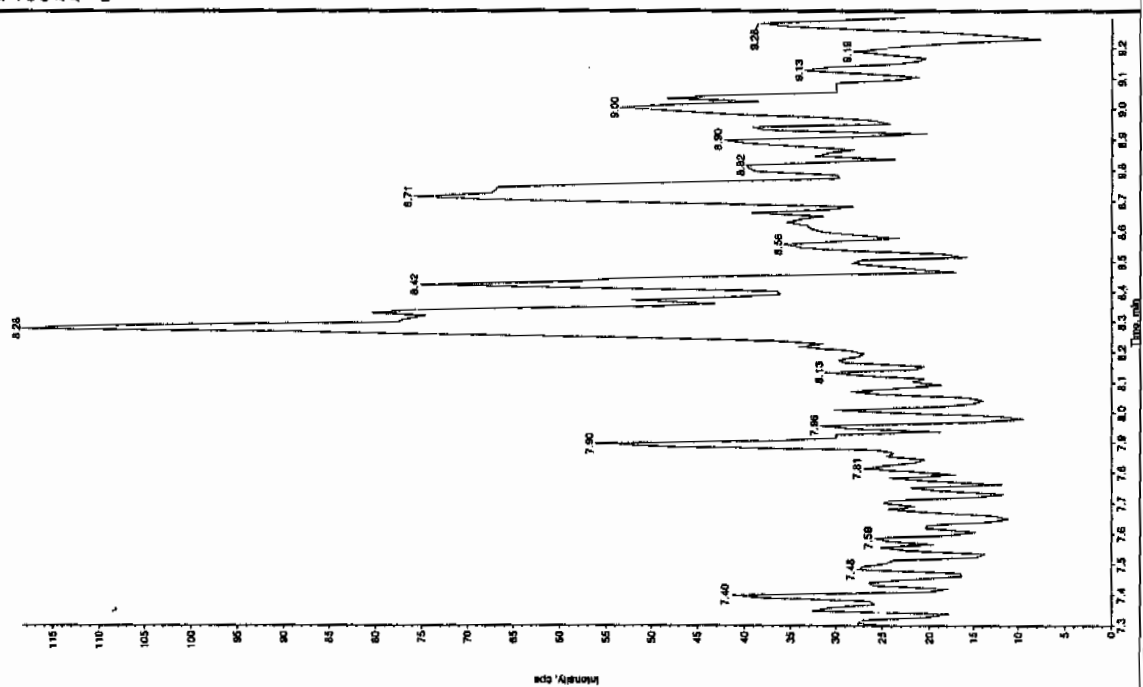
Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX03030002.wif"
 Peak Name: "25-Diamino-4-nitrobenzoic" Mass(es): "166.046.0 m/z"
 Comment: "LCMS-EXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/28/2010
 Acq. Date: 9:15:15 AM
 Acq. Time: 9:15:15 AM
 Modified: No



Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX03030002.wif"
 Peak Name: "34-Chlorobenzene" Mass(es): "112.171519 amu"
 Comment: "LCMS-EXP_B" Annotation: "1"

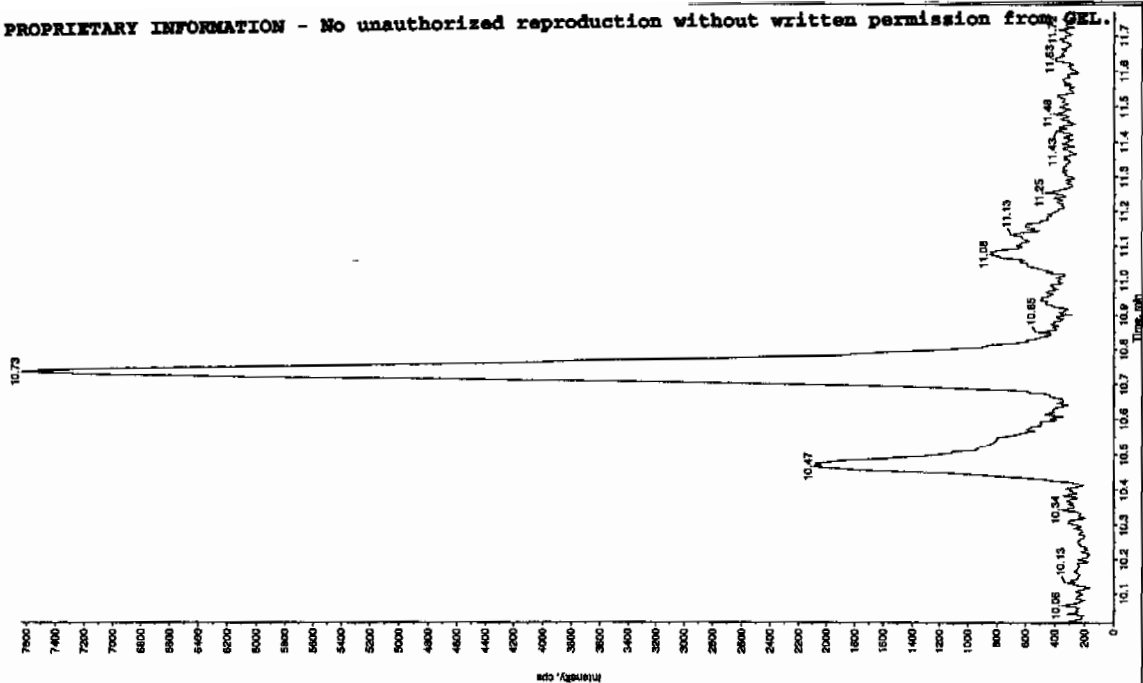
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/28/2010
 Acq. Date: 9:15:15 AM
 Acq. Time: 9:15:15 AM
 Modified: No



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

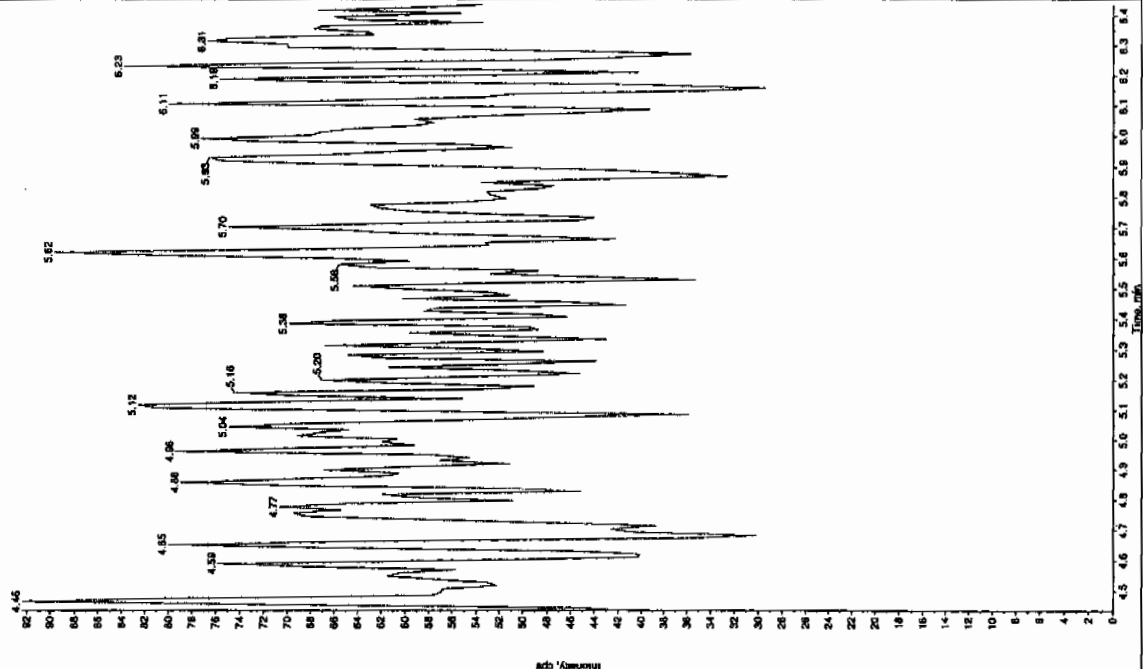
Sample Name: "XIBLX01" Sample ID: "111ER" File: "EXS0250002.wif"
 Peak Name: "nitro-cresyl phosphate" Mass(es): "368.1791.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/25/2010
 Acq. Date: 9:13:15 AM
 Acq. Time: 9:13:15 AM
 Modified: No



Sample Name: "XIBLX01" Sample ID: "111ER" File: "EXS0250002.wif"
 Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/25/2010
 Acq. Date: 9:13:15 AM
 Acq. Time: 9:13:15 AM
 Modified: No



Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 09-APR-10 01:28

GEL Data File: EXP0408009a

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	582.512
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	582.151
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\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408009a

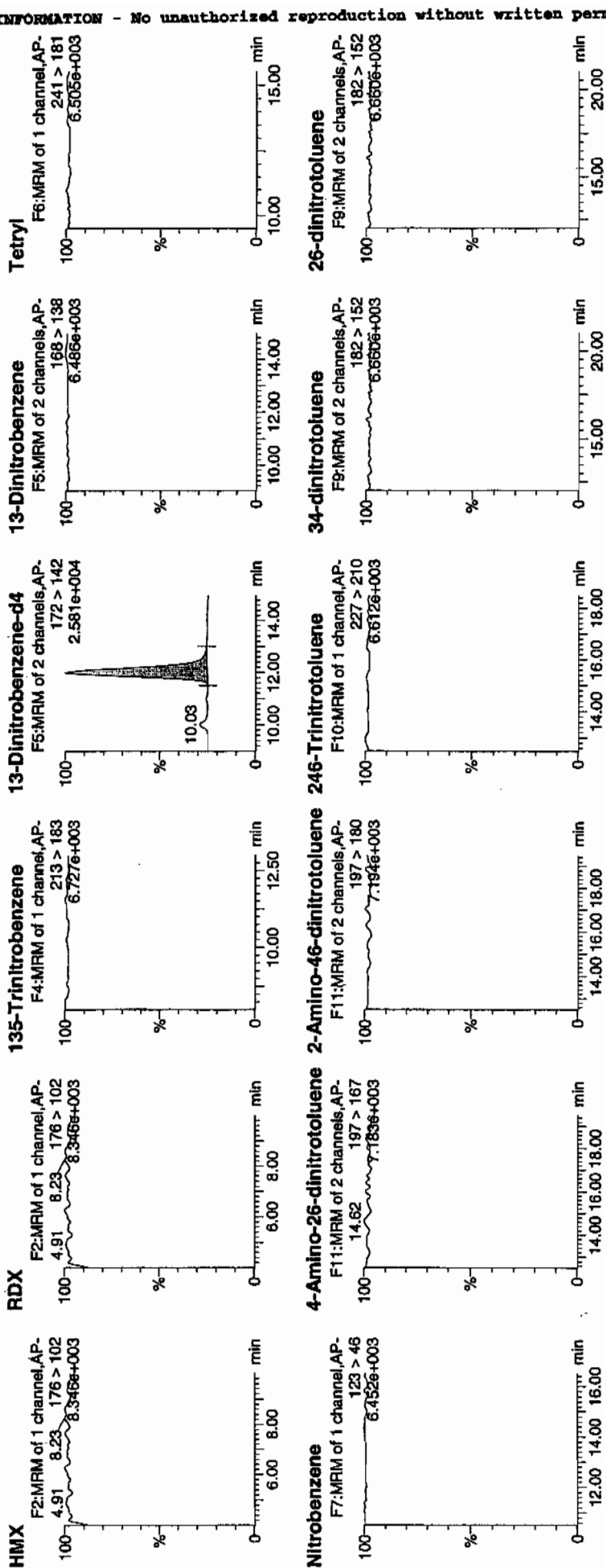
Date: 09-Apr-2010

Time: 01:28:39

ID: XIBLK02

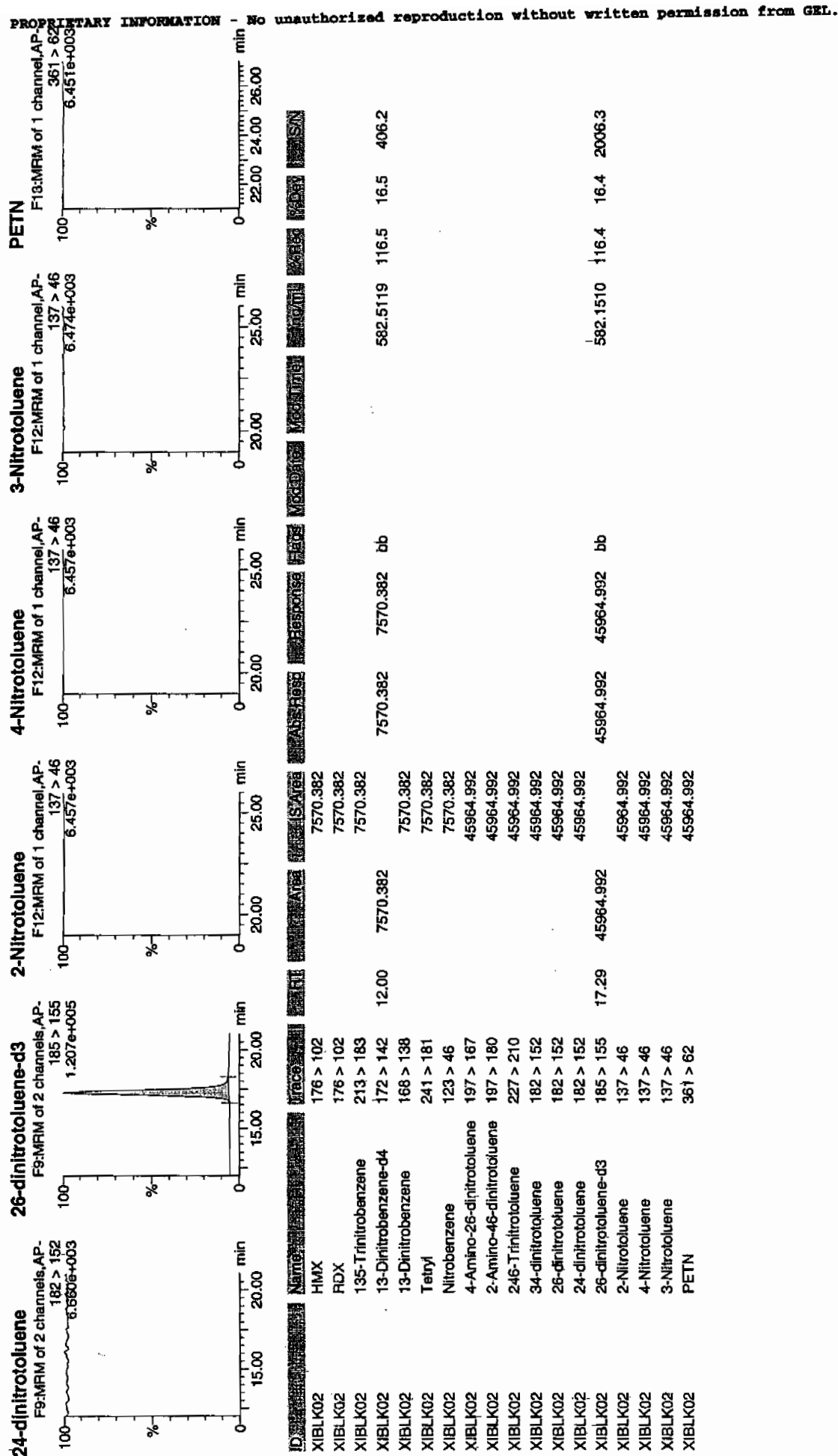
Vial: 1:1,A

10/11/10



10/11/10

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010



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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 09-APR-10 02:27

GEL Data File: EXP0408011a

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	614.27
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	618.135
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\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408011a

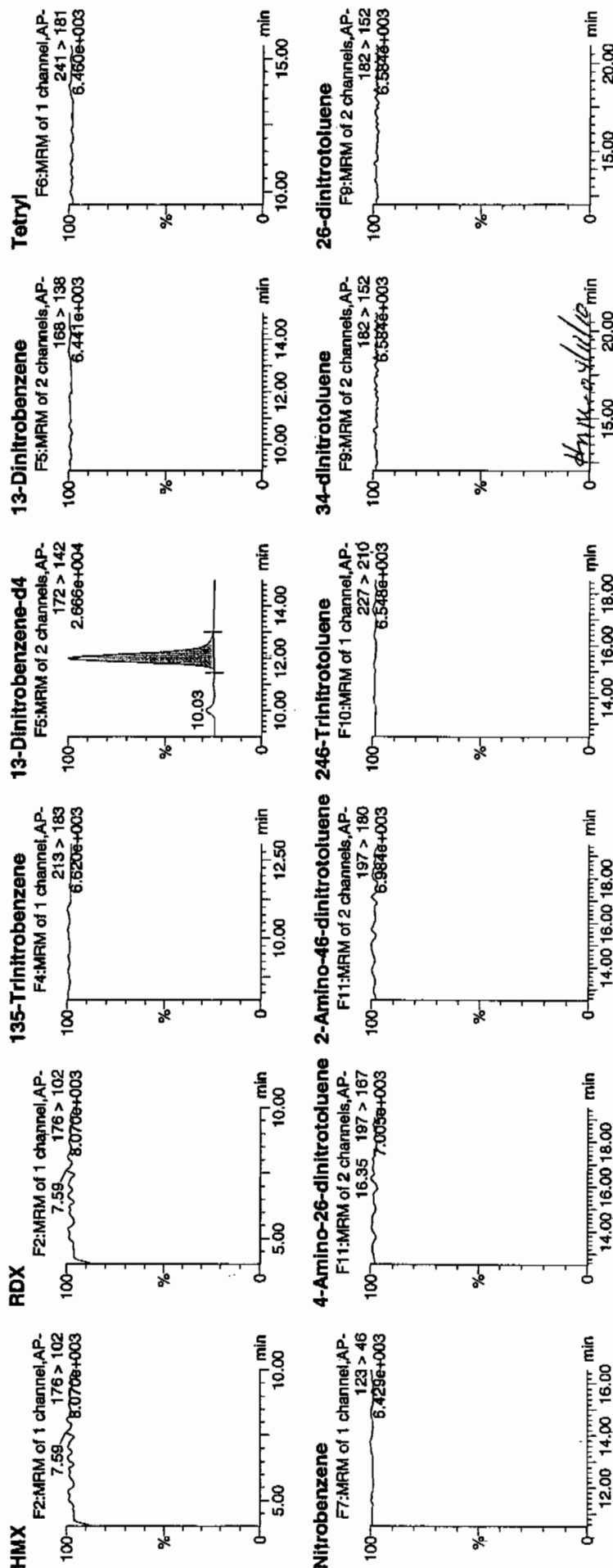
Date: 09-Apr-2010

Time: 02:27:37

ID: XIBLK03

Vial: 1:1,A

10.03
4/2/10

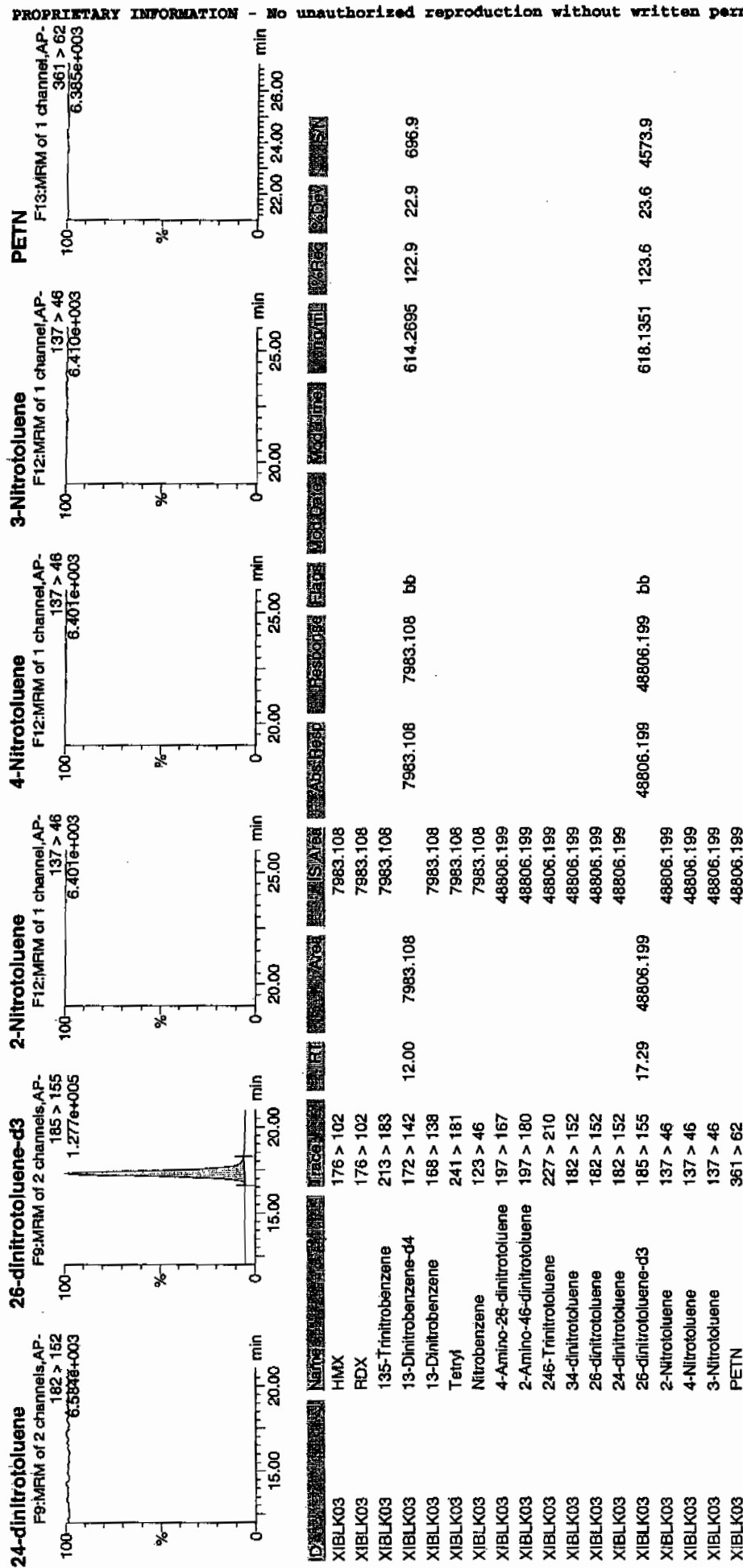


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 22 of 51

Dataset: C:\MASSLYNX\New_Exp.PRO\040610expA.qld, Time: Fri Apr 09 10:54:52 2010



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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 09-APR-10 08:50

GEL Data File: EXP0408024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
m-Dinitrobenzene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	626.188
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	634.417
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

Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0408024a

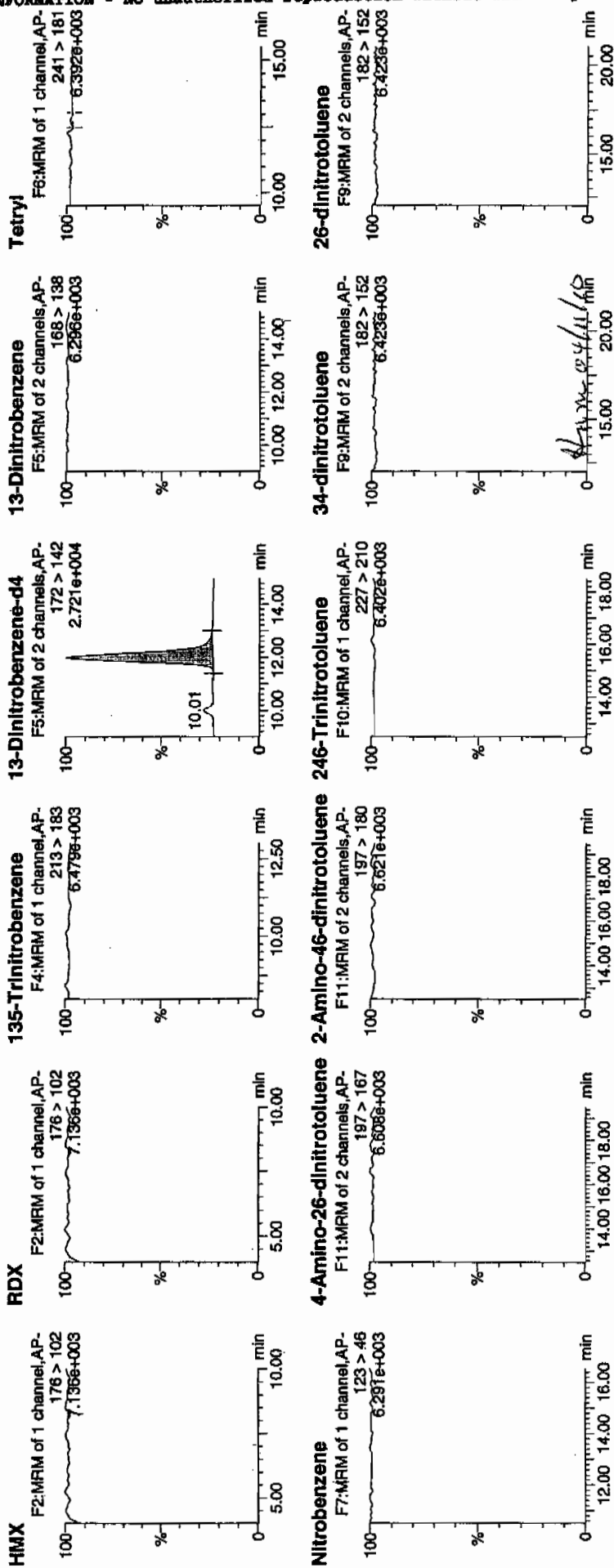
Date: 09-Apr-2010

Time: 08:50:59

ID: XIBLK04

Vial: 1:1,A

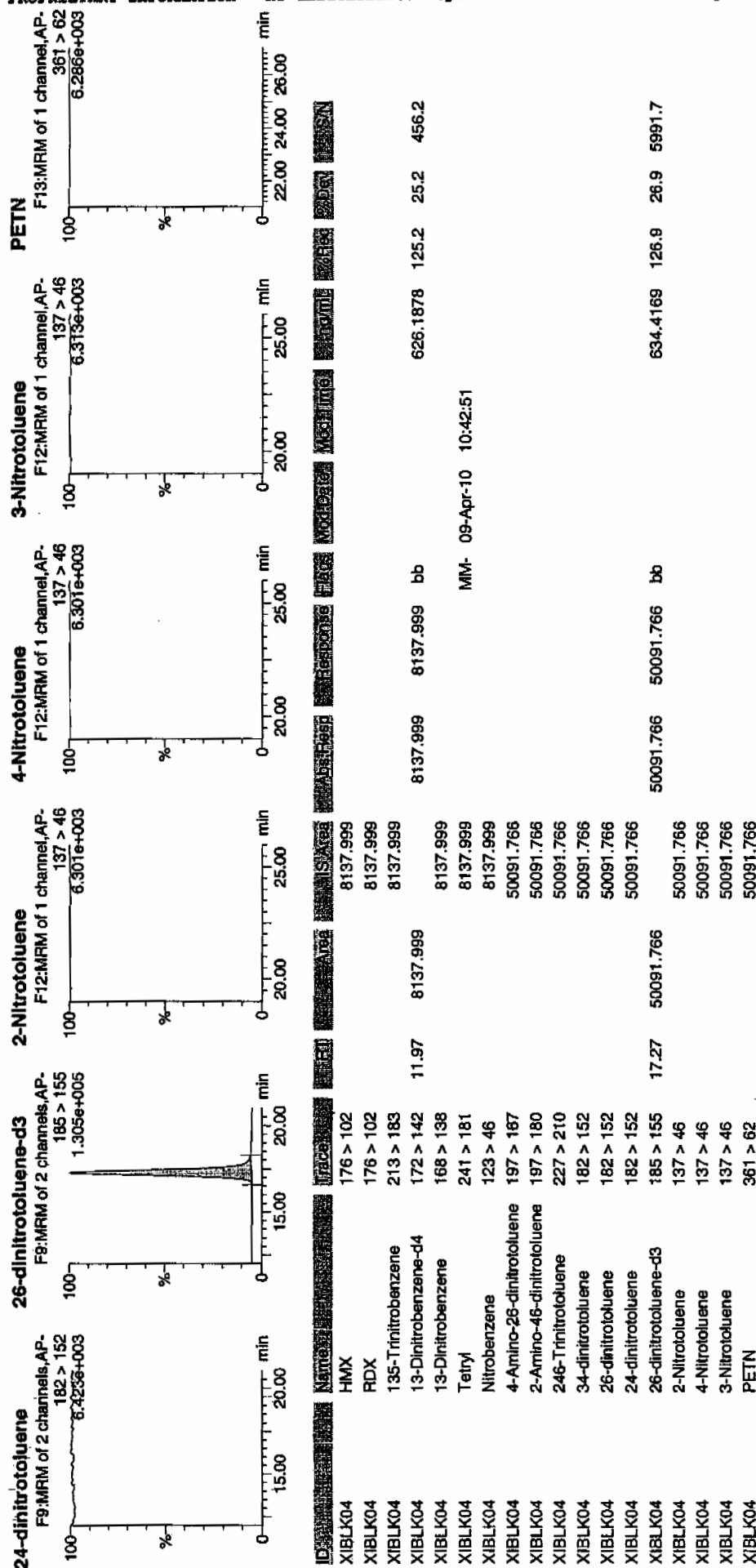
4/10/10



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

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

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Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 09-APR-10 15:14

GEL Data File: EXP0408037a

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	537.089
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	518.05
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\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408037a

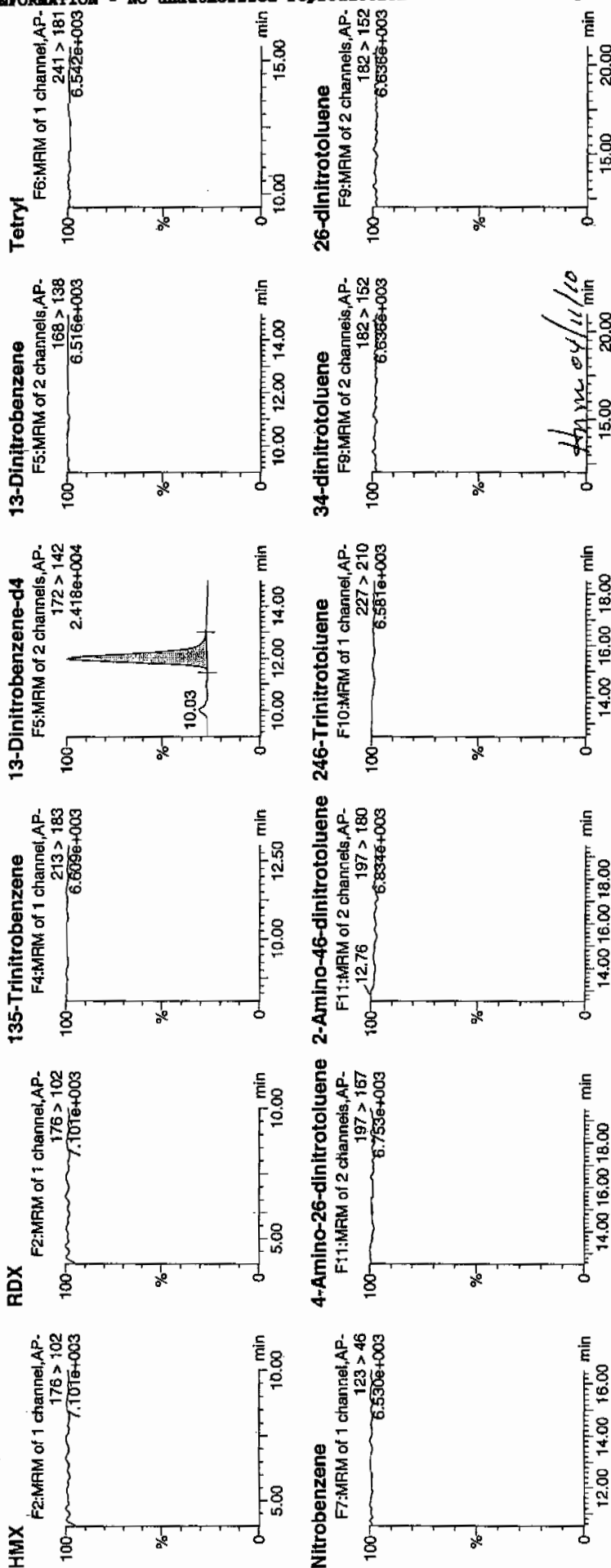
Date: 09-Apr-2010

Time: 15:14:23

ID: XIBLK05

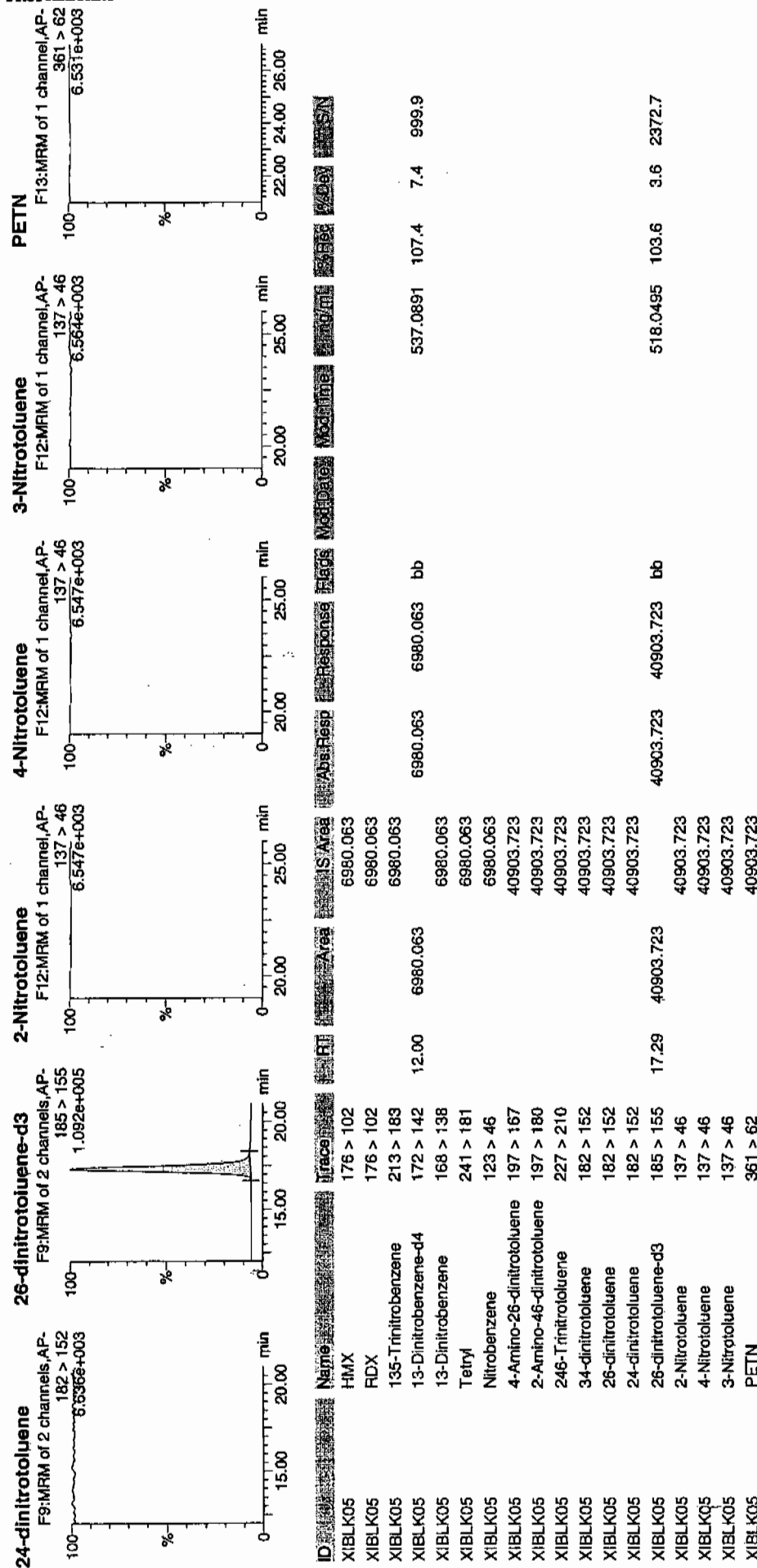
Vial: 1:1,A

4/10/10
MSP



Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 09-APR-10 20:12

GEL Data File: EXP0408047a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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	429.443
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	435.902
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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 43 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408047a

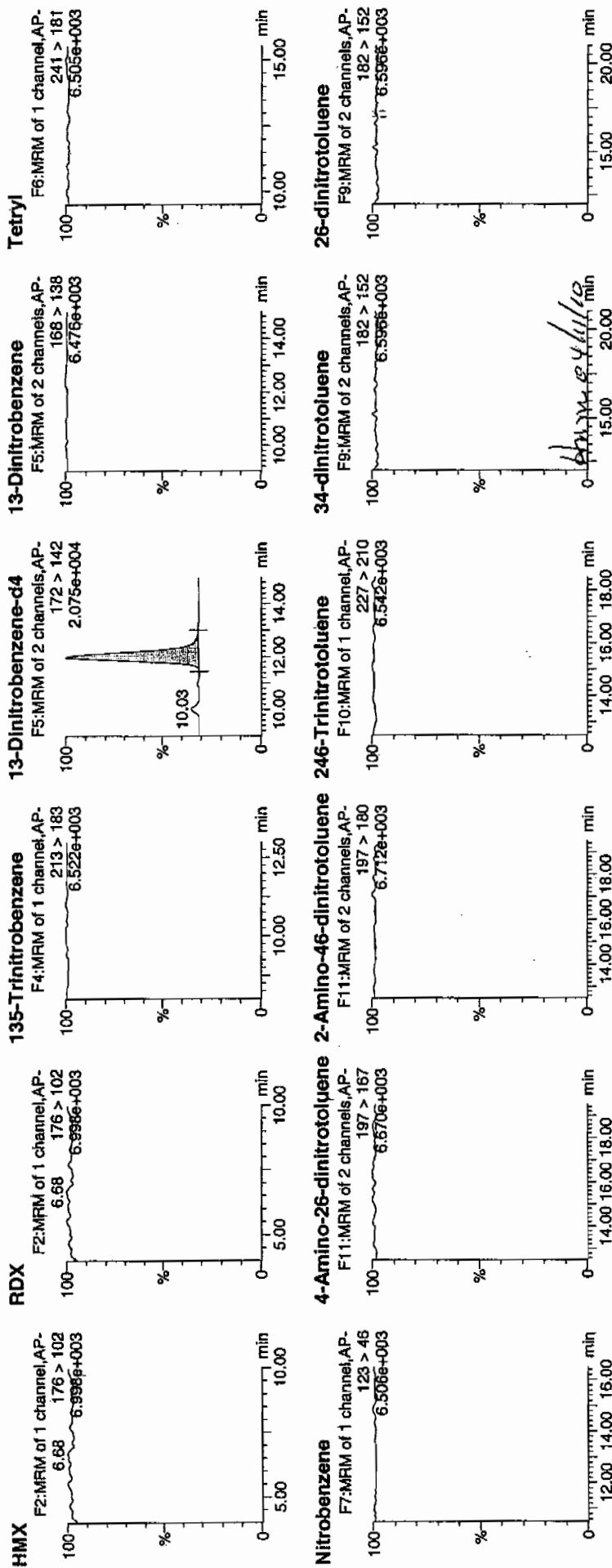
Date: 09-Apr-2010

Time: 20:12:37

ID: XIBLK06

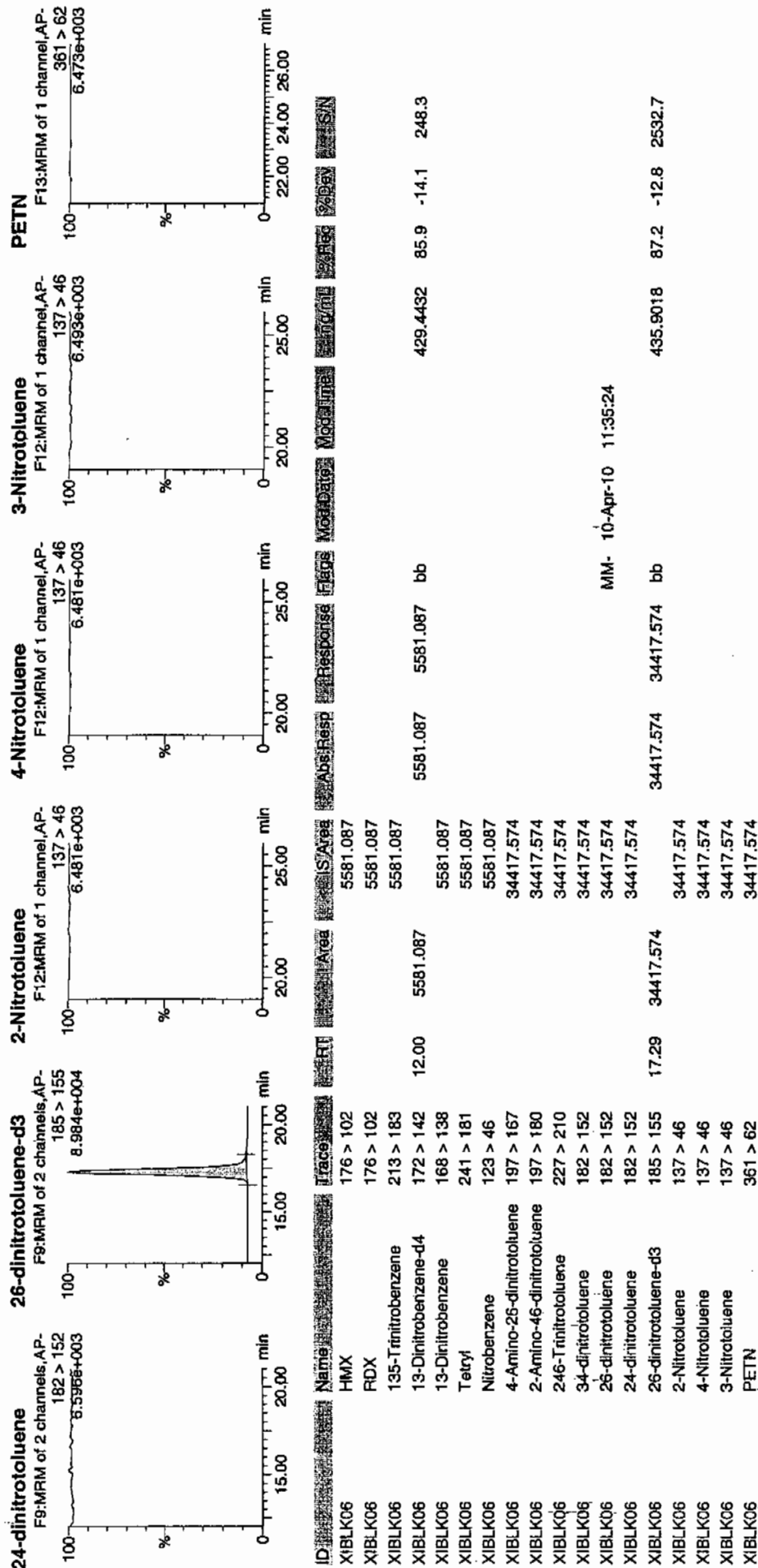
Vial: 1:1,A

μA
4/10/10



Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 10-APR-10 02:36

GEL Data File: EXP0408060a

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	468.862
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	454.011
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qtd, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408060a

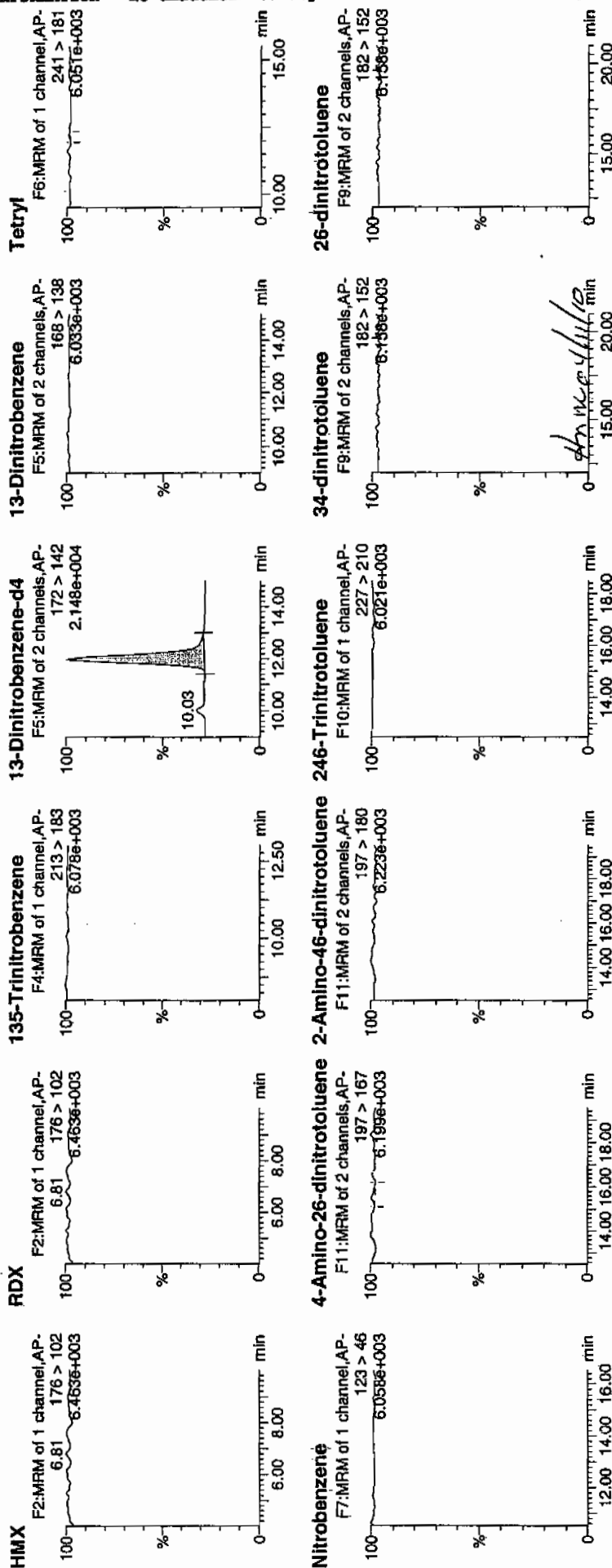
Date: 10-Apr-2010

Time: 02:36:11

ID: XIBLK07

Vial: 1:1,A

Handwritten: *172*

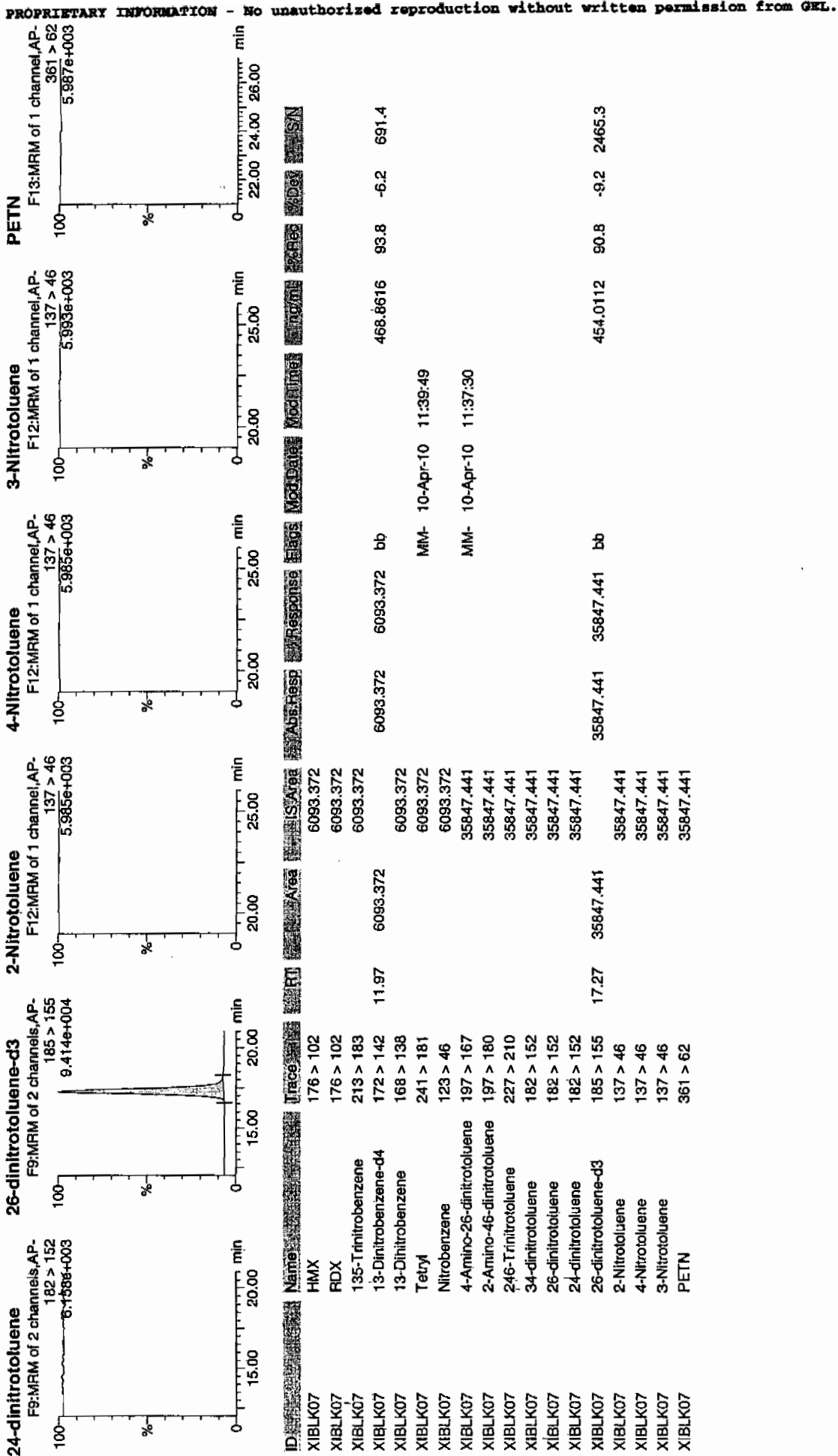


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 70 of 99

Dataset: C:\MASSLYN\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 10-APR-10 08:59

GEL Data File: EXP0408073a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
RDX	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	505.982
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	463.163
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\040810expA1.qld\EXP0408073a

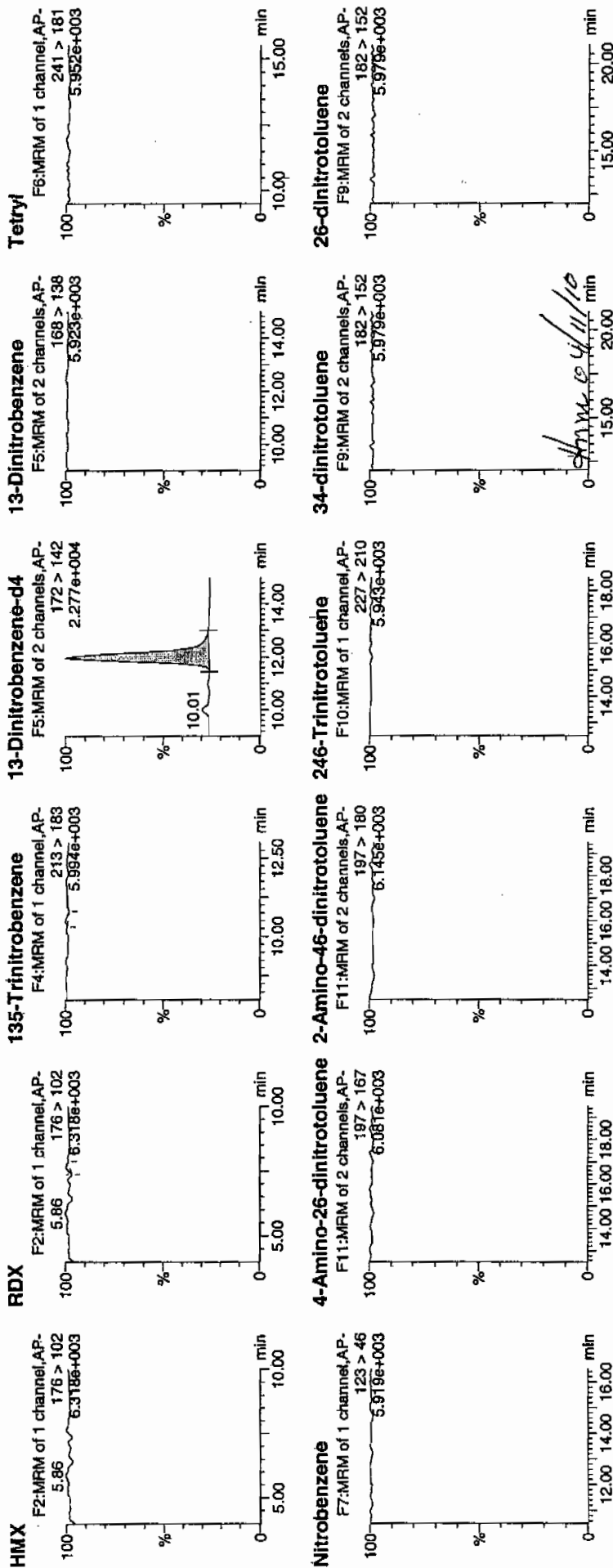
Date: 10-Apr-2010

Time: 08:59:47

ID: XIBLK08

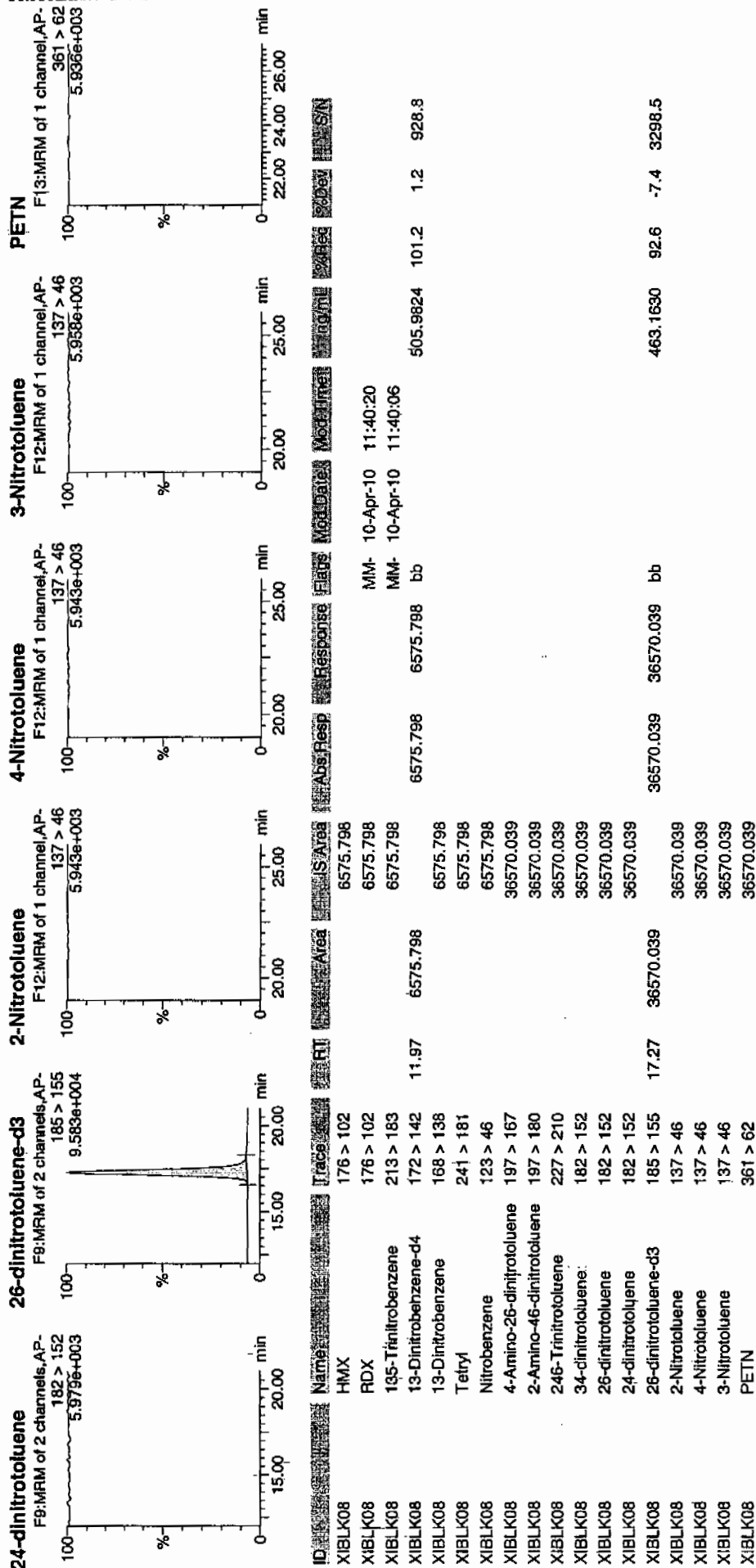
Vial: 1:1,A

4/10/10



Dataset: C:\MASSLYNX\New_Exp\PRO1040810expA1.qtd, Time: Sat Apr 10 11:40:36 2010

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Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 10-APR-10 10:28

GEL Data File: EXP0408076a

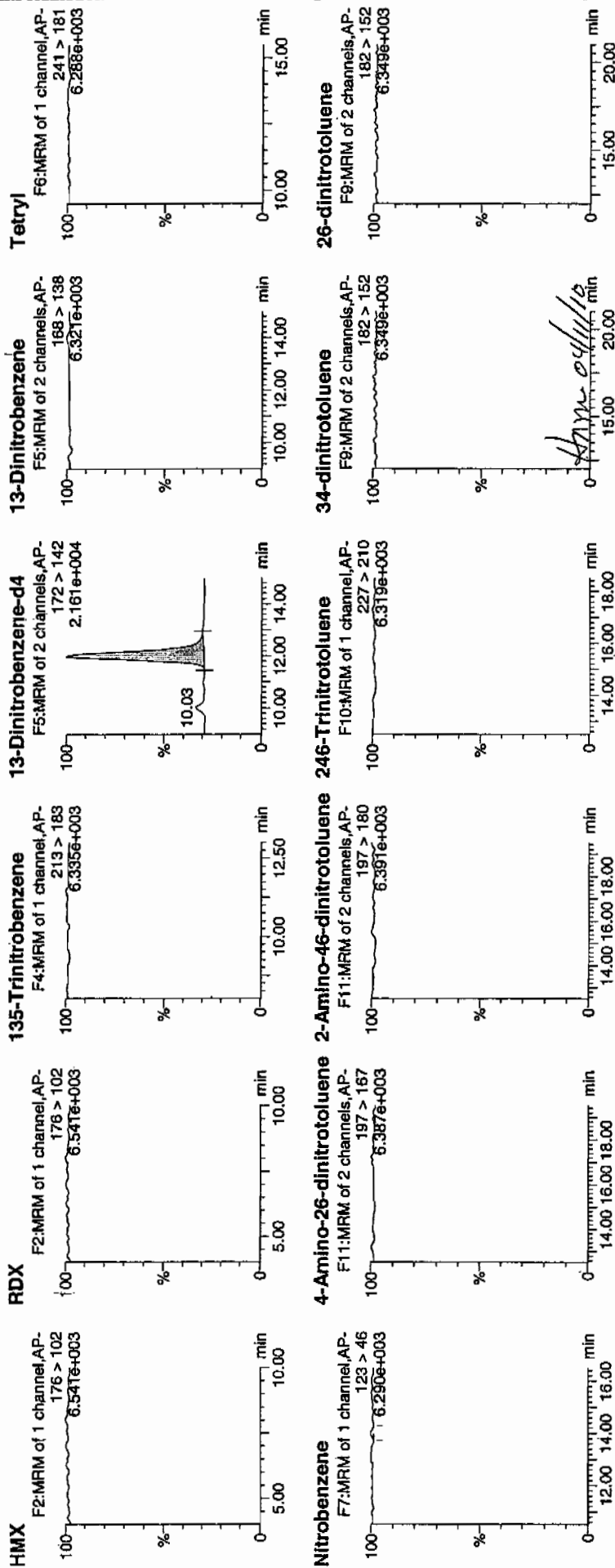
Instrument ID: LCMSMS

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	465.147
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	447.611
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

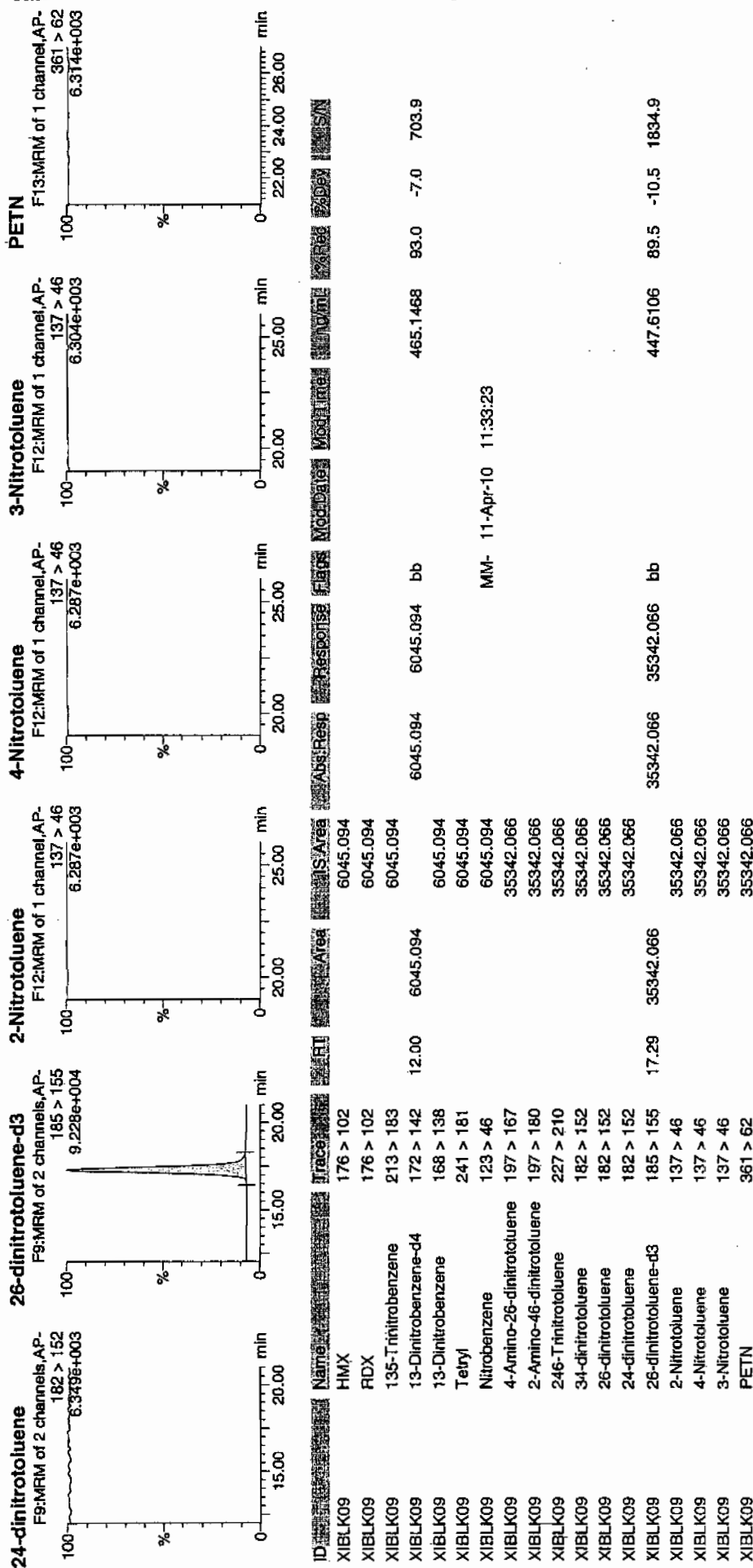
μA7
-111100

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Dataset: C:\MASSLYNX\New_Exp\PROV\40810expA2.qld, Time: Sun Apr 11 11:45:05 2010

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Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 10-APR-10 15:23

GEL Data File: EXP0408086a

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	453.275
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	429.682
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\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408086a

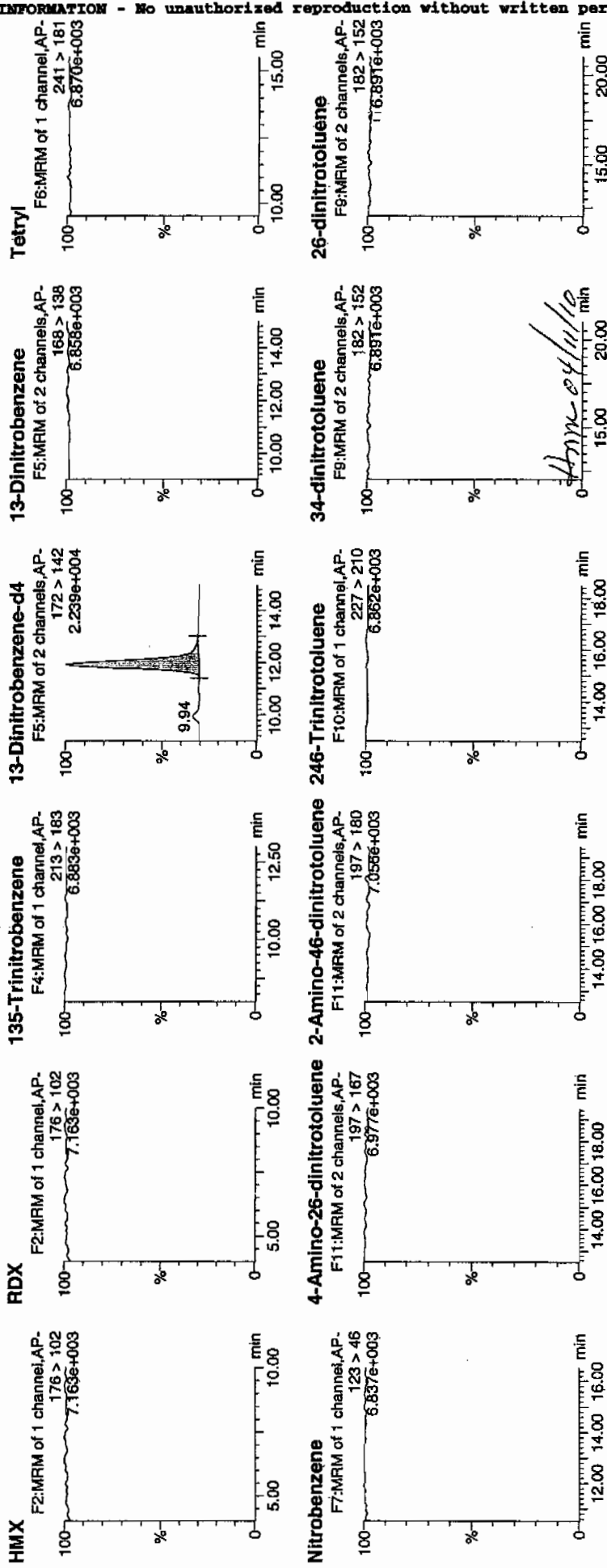
Date: 10-Apr-2010

Time: 15:23:25

ID: XIBLK10

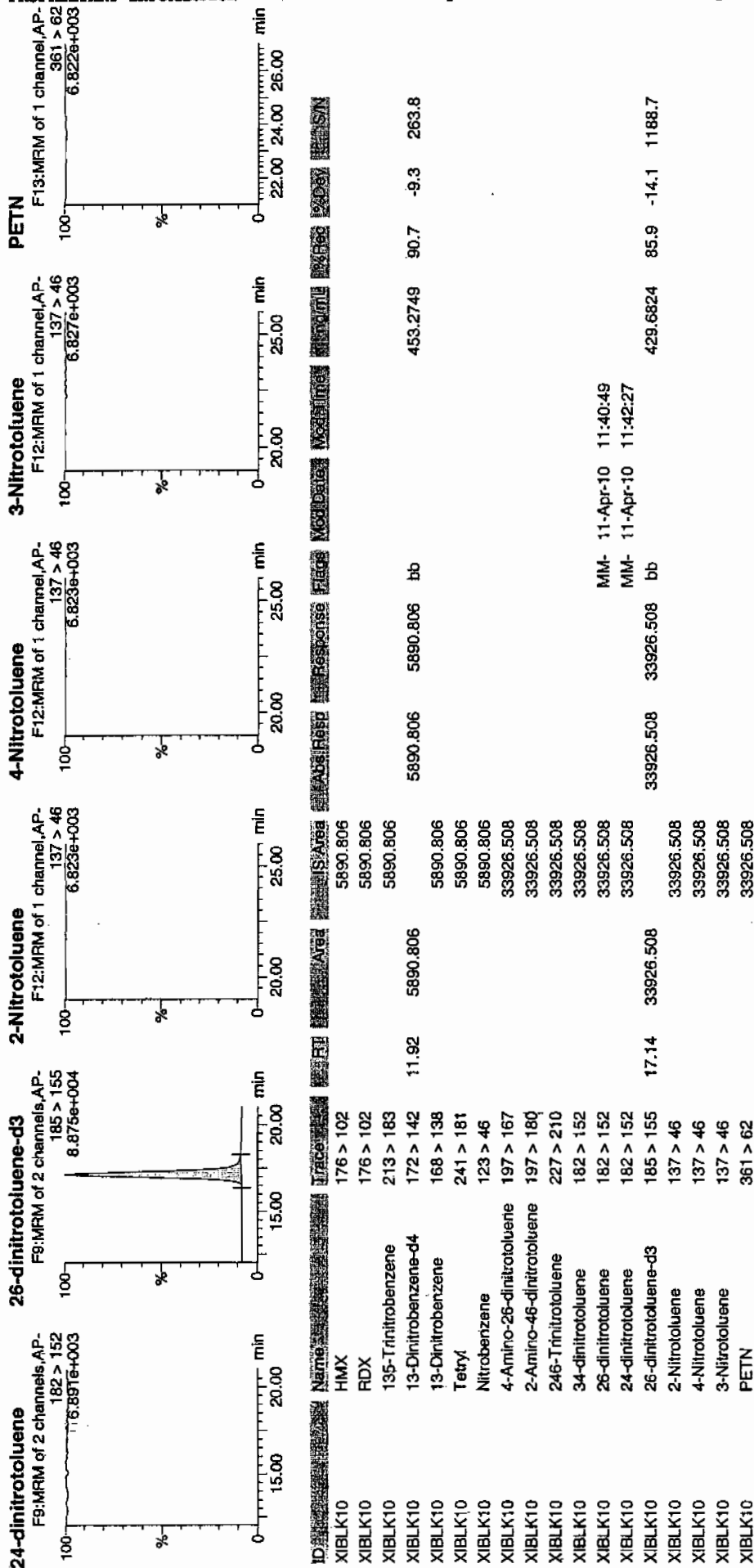
Vial: 1:1,A

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4/11/10



Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

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Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 22-MAR-10 17:34

GEL Data File: EXS03220010.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

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

Jan 3/27/10

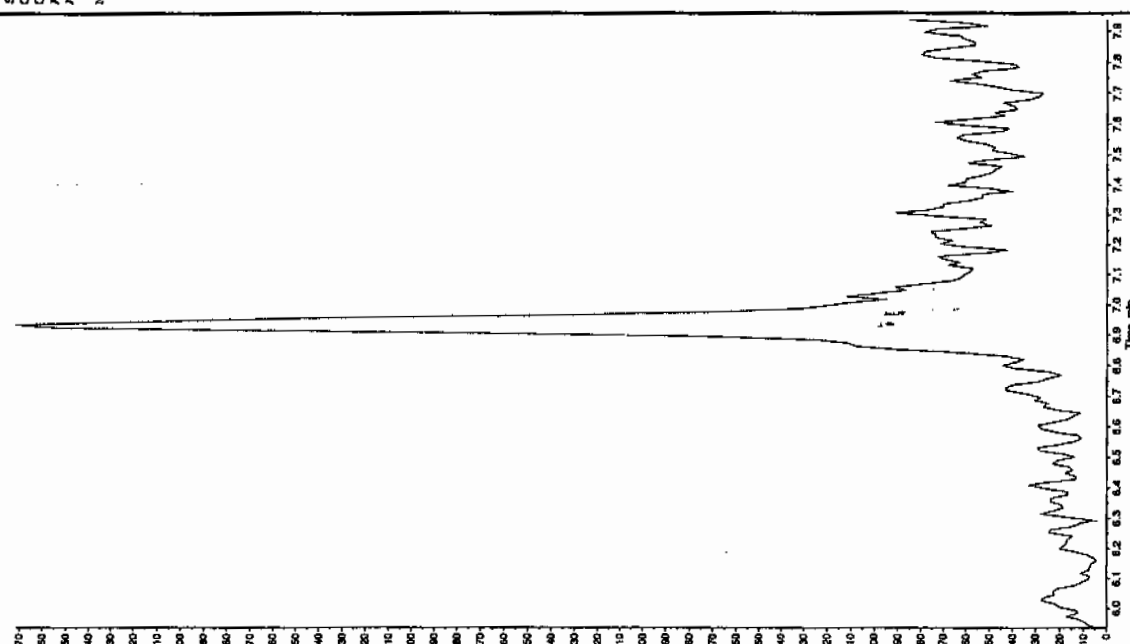
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Sample Name: "XBLX02" Sample ID: "111ER" File: "EXS0220010.wif"

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

Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XBLX02" Sample ID: "111ER" File: "EXS0220010.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

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

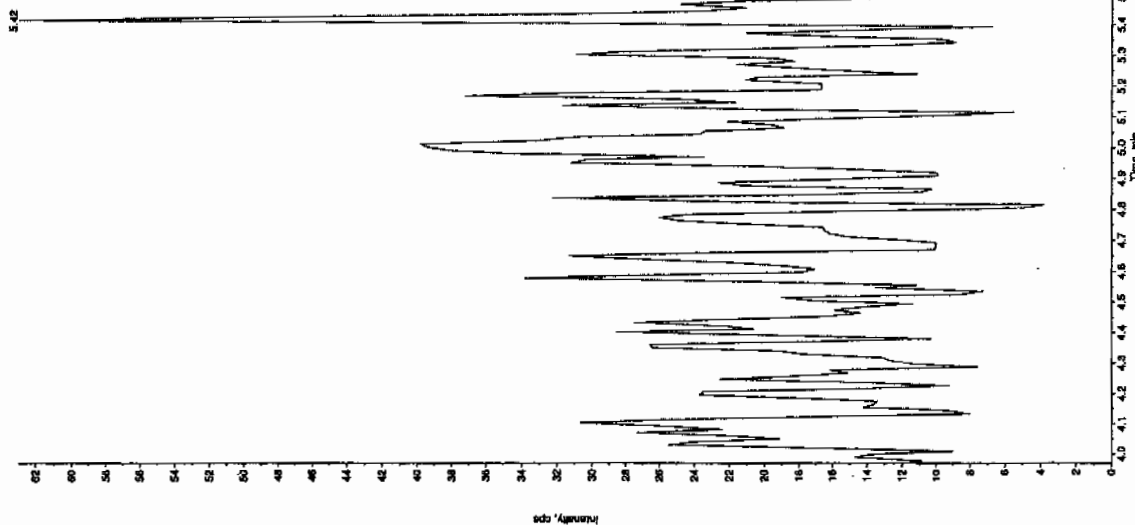


www.03/29/10

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

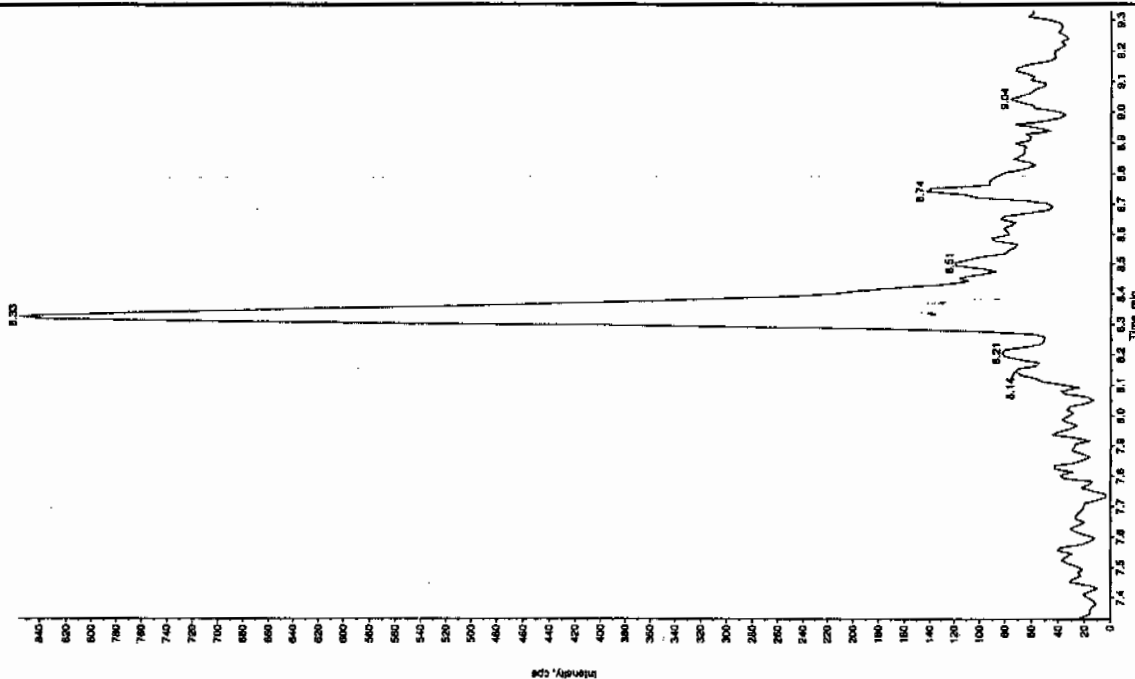
Sample Name: "XIBLK02" Sample ID: "111ER" File: "EXS0322010.wif"
 Peak Name: "25-Dienio-4-nitrodiene" Mass(es): "186.045.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

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



Sample Name: "XIBLK02" Sample ID: "111ER" File: "EXS0322010.wif"
 Peak Name: "34-Dienio-4-nitrodiene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

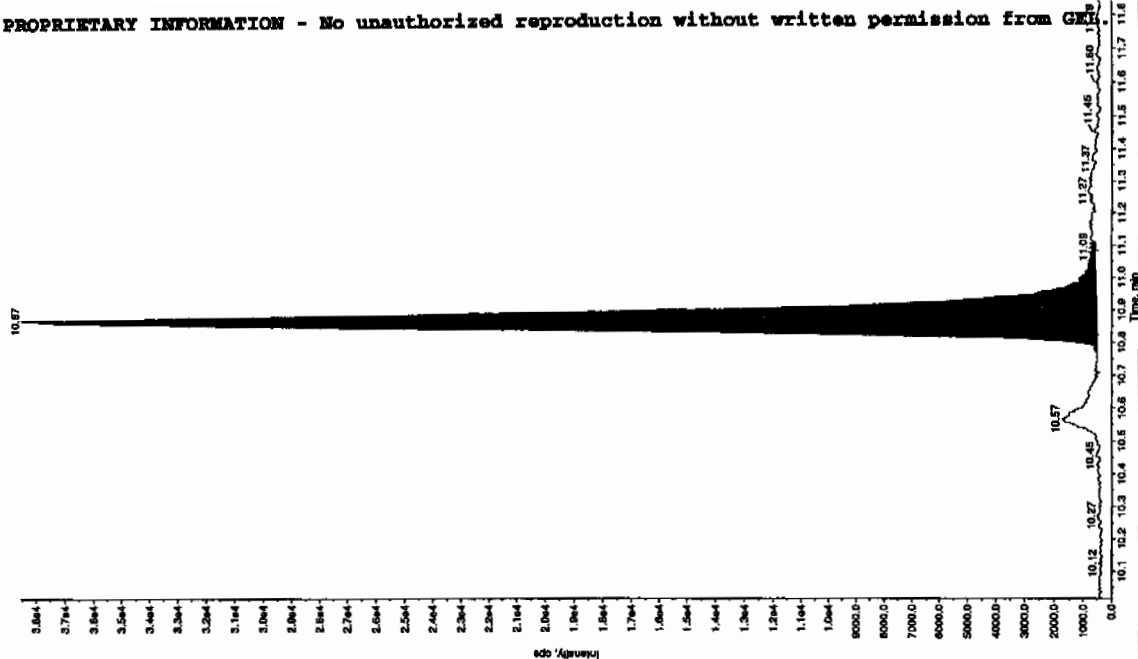
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:19 PM
 Modified: No



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

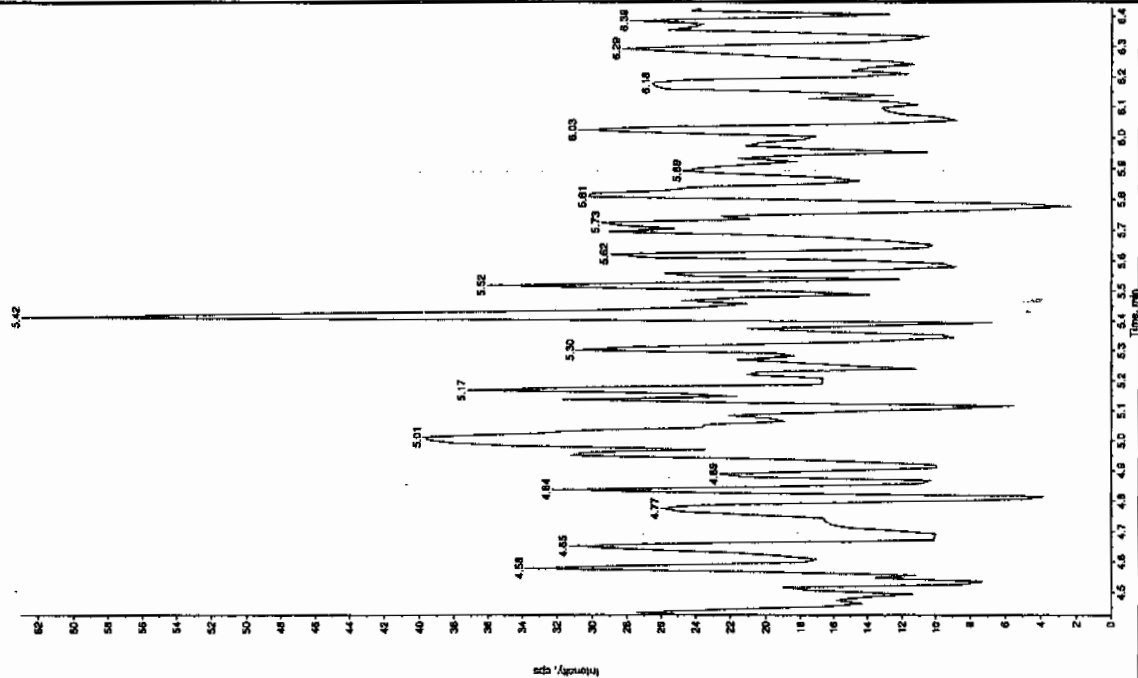
Sample Name: 'XBLK02' Sample ID: 'HILF' File: 'EXS0220010.wif'
 Peak Name: 'nicotinic acid' Mass(es): 389.181.0 amu
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 13.9 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:19 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Report RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.53e+005 counts
 Height: 38049.168 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: 'XBLK02' Sample ID: 'HILF' File: 'EXS0220010.wif'
 Peak Name: '24-Diamino-6-alkylthymine' Mass(es): 168.046.0 amu
 Comment: 'LCMSEXP_B' Annotation: ''

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



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 22-MAR-10 18:05

GEL Data File: EXS03220012.wiff

Instrument ID: LCMSMS

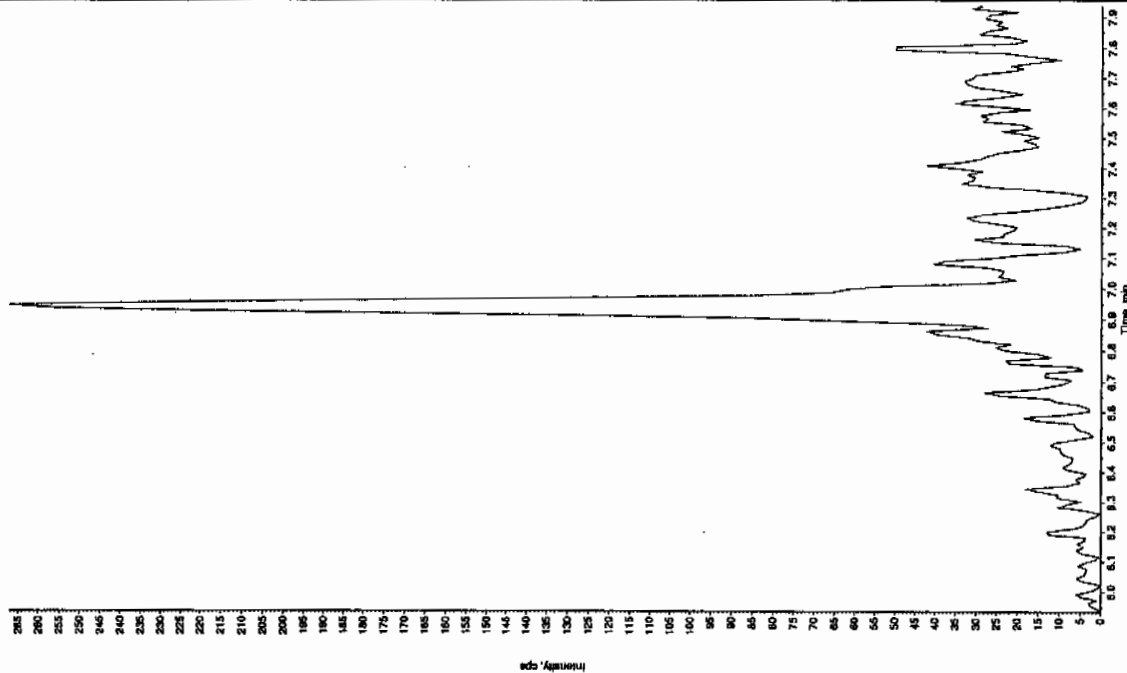
Column: Phenomenex Ultracarb 5u ODS(20)

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

San 3/27/10

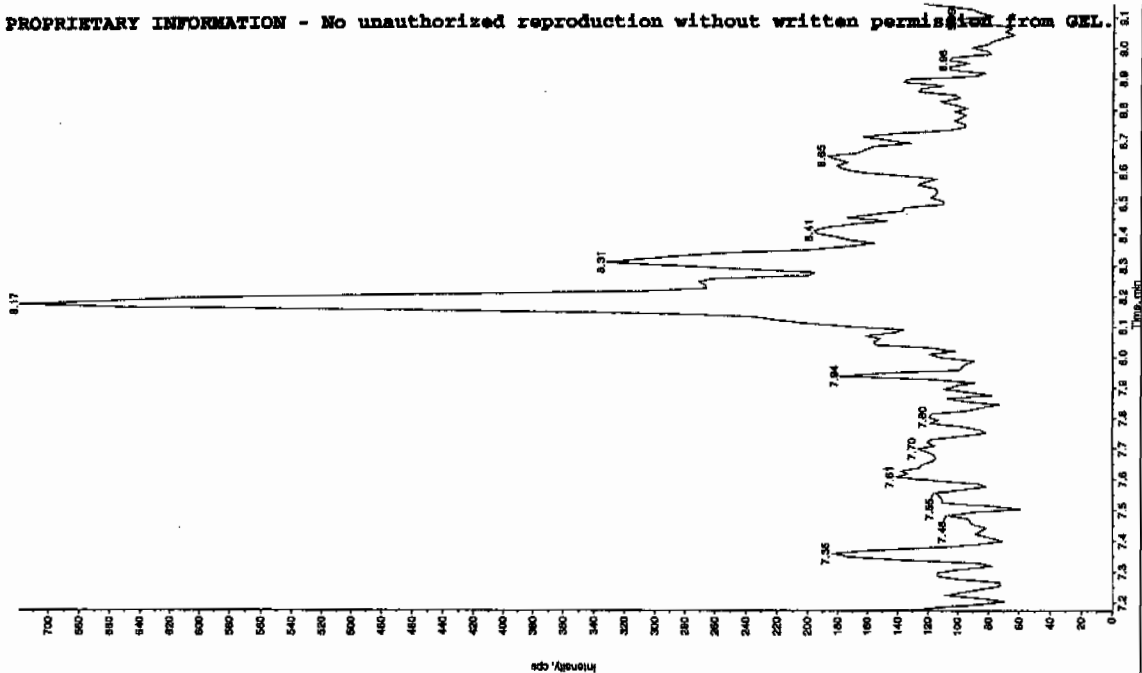
Sample Name: 'XBLK03' Sample ID: '111ER' File: 'EX022012.wif'
Peak Name: '111ER' Mass(es): '257.2204.9 amu'
Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
Sample Type: Unknown
Concentration: 0.30 ng/mL
Calculated Conc: 3/22/2010
Acq. Date: 6:05:46 PM
Acq. Time: 6:05:46 PM
Modified: No



Sample Name: 'XBLK03' Sample ID: '111ER' File: 'EX022012.wif'
Peak Name: '35-Ornithine' Mass(es): '182.046.0 amu'
Comment: 'LCMSEXP_B' Annotation: ''

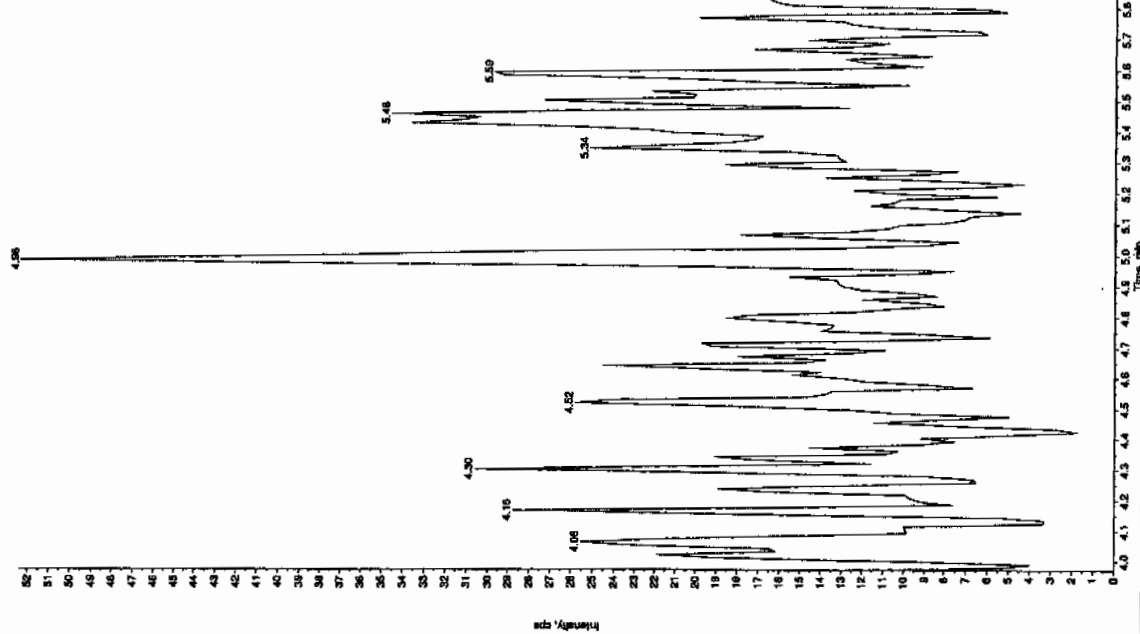
Sample Index: 1
Sample Type: Unknown
Concentration: 0.30 ng/mL
Calculated Conc: 3/22/2010
Acq. Date: 6:05:46 PM
Acq. Time: 6:05:46 PM
Modified: No



San 03/29/10

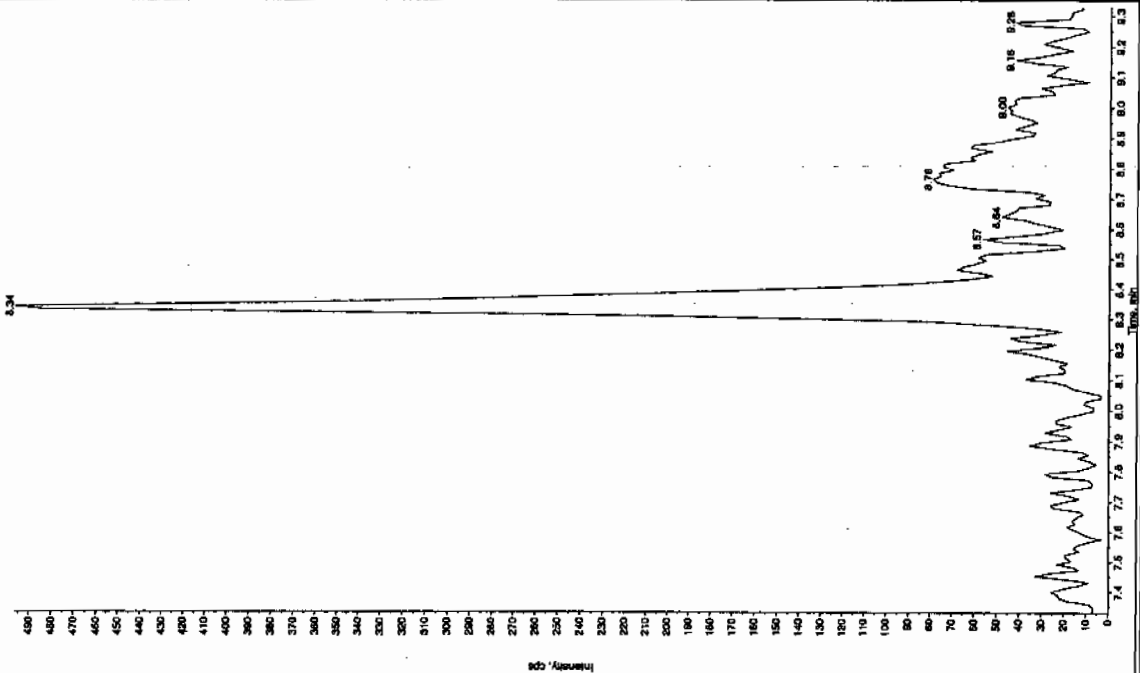
Sample Name: "XIBLK03" Sample ID: "11LER" File: "EX03022012.wif"
 Peak Name: "28-Diamino-4-nitrobenzoate" Mass(es): "166.0465.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

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



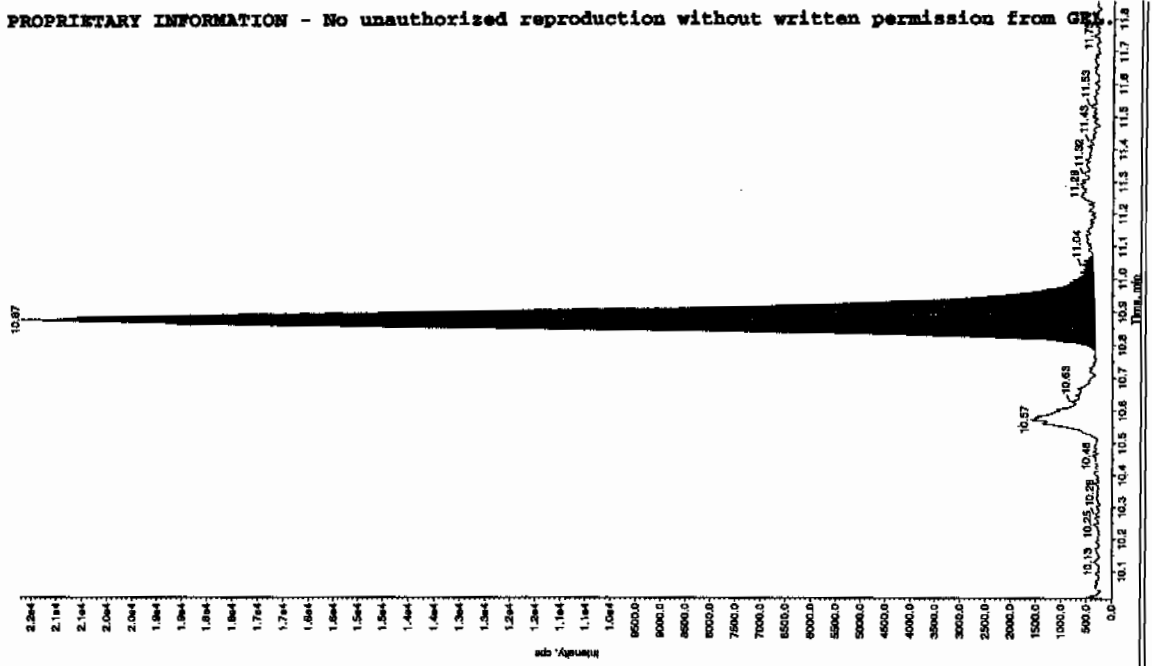
Sample Name: "XIBLK03" Sample ID: "11LER" File: "EX03022012.wif"
 Peak Name: "34-Chlorobenzoate" Mass(es): "162.1751.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

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



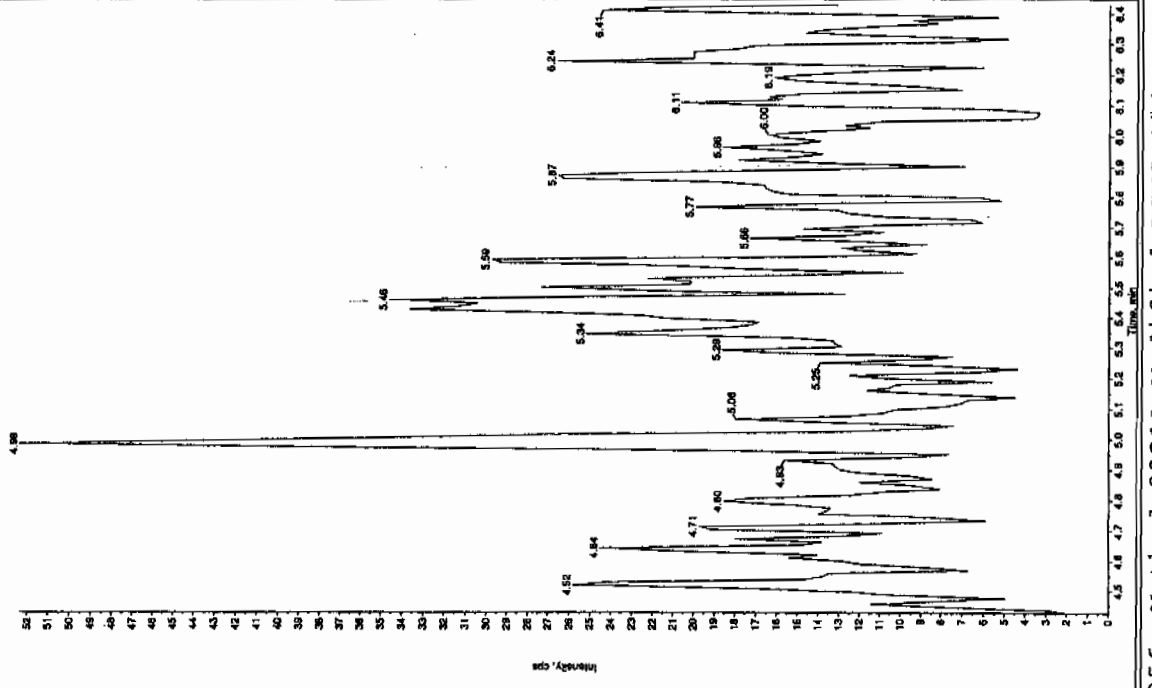
Sample Name: 'XBL003' Sample ID: '11LER' File: 'EXS0320012.wif'
Peak Name: '1,4-bis(2-oxo-3-oxopropyl)phosphate' Mass(es): '365.191.0 amu'
Comment: 'LONSEXP_3' Annotation: ''

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 8.70 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 6:05:46 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 8000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 10.9 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 10.9 min
Area: 8.61e+004 counts
Height: 21362.526 cps
Start Time: 10.8 min
End Time: 11.1 min



Sample Name: 'XBL003' Sample ID: '11LER' File: 'EXS0320012.wif'
Peak Name: '2,4-bis(2-oxo-3-oxopropyl)phosphate' Mass(es): '166.066.0 amu'
Comment: 'LONSEXP_3' Annotation: ''

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



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 22-MAR-10 20:58

GEL Data File: EXS03220023.wiff

Instrument ID: LCMSMS

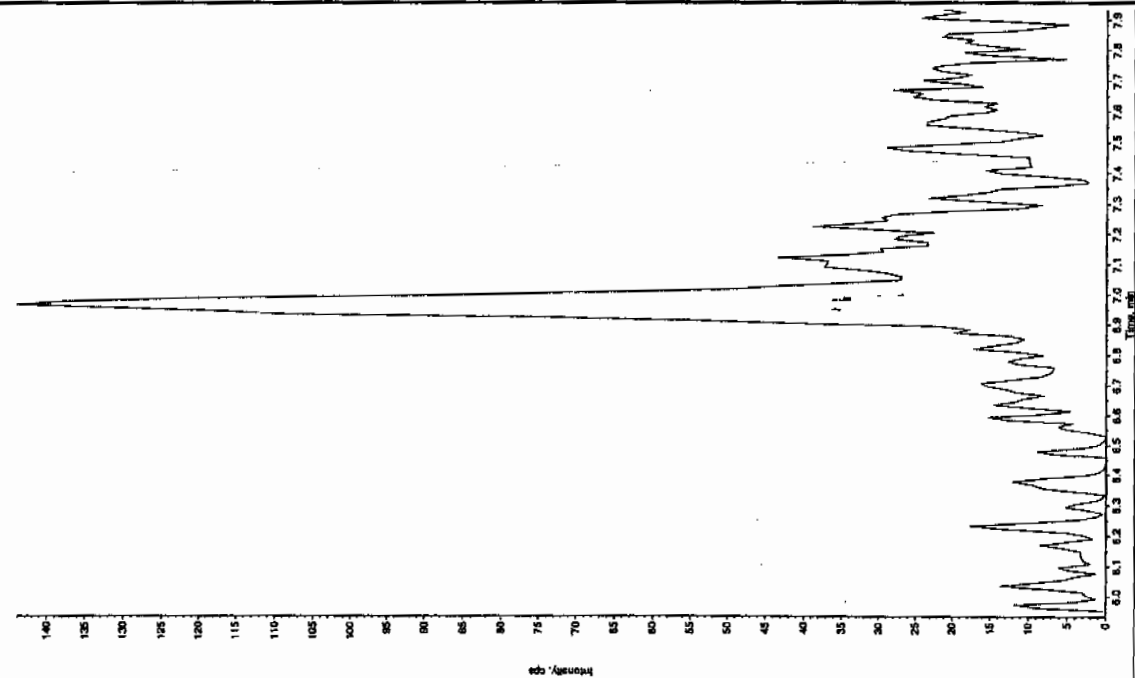
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.68
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/29/10

Sample Name: "XELK04" Sample ID: "11111" File: "EX0022023.wif"
 Peak Name: "T1" Mass(es): 257.2034.9 and
 Concent: "LCMSXP_B" Annotation: "1"

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



Sample Name: "XELK04" Sample ID: "11111" File: "EX0022023.wif"
 Peak Name: "T1" Mass(es): 257.2034.9 and
 Concent: "LCMSXP_B" Annotation: "1"

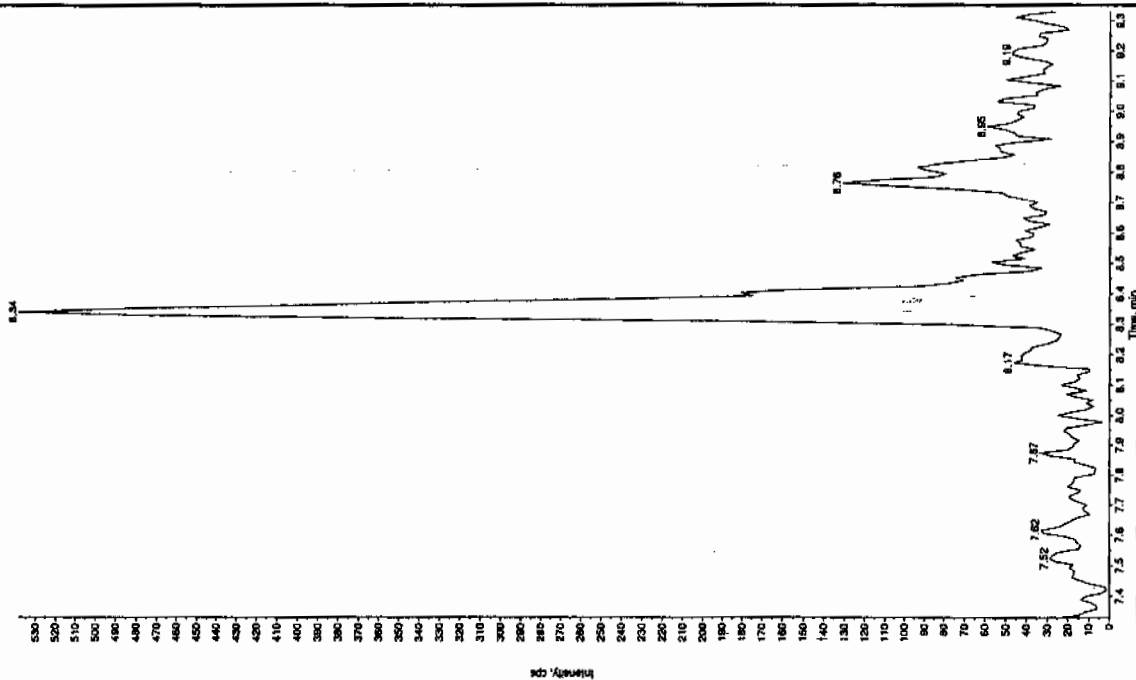
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/22/2010
 Acq. Date: 8:58:36 PM
 Acq. Time: 8:58:36 PM
 Modified: No



for 3/29/10

Sample Name: "XIBLX04" Sample ID: "1111ER" File: "EXS03220023.wif"
 Peak Name: "28-Oximin-4-nitrobenzene" Mass(es): "196.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XIBLX04" Sample ID: "1111ER" File: "EXS03220023.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.0151.8 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: 'XBLK04' Sample ID: 'TILLER' File: 'EX53220023.will'
 Peak Name: 'Tri(p-cra) phosphate' Mass(es): '389.191.0 amu'

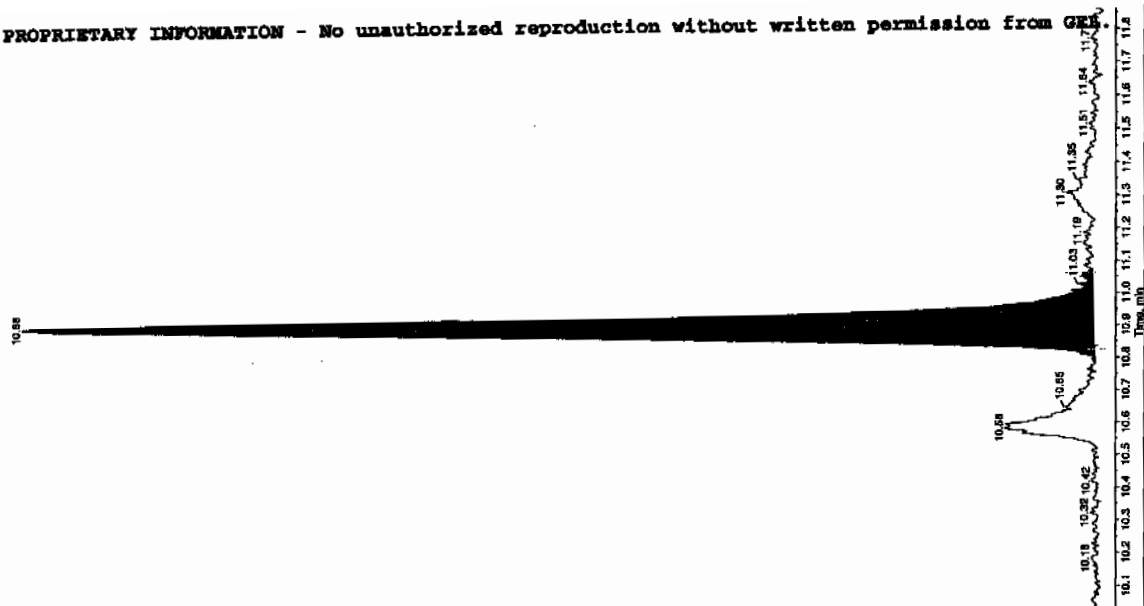
Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 6.68 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:58:35 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Retention RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.00e+004 counts
 Height: 14426.788 cps
 Start Time: 10.8 min
 End Time: 11.1 min

Intensity, cps



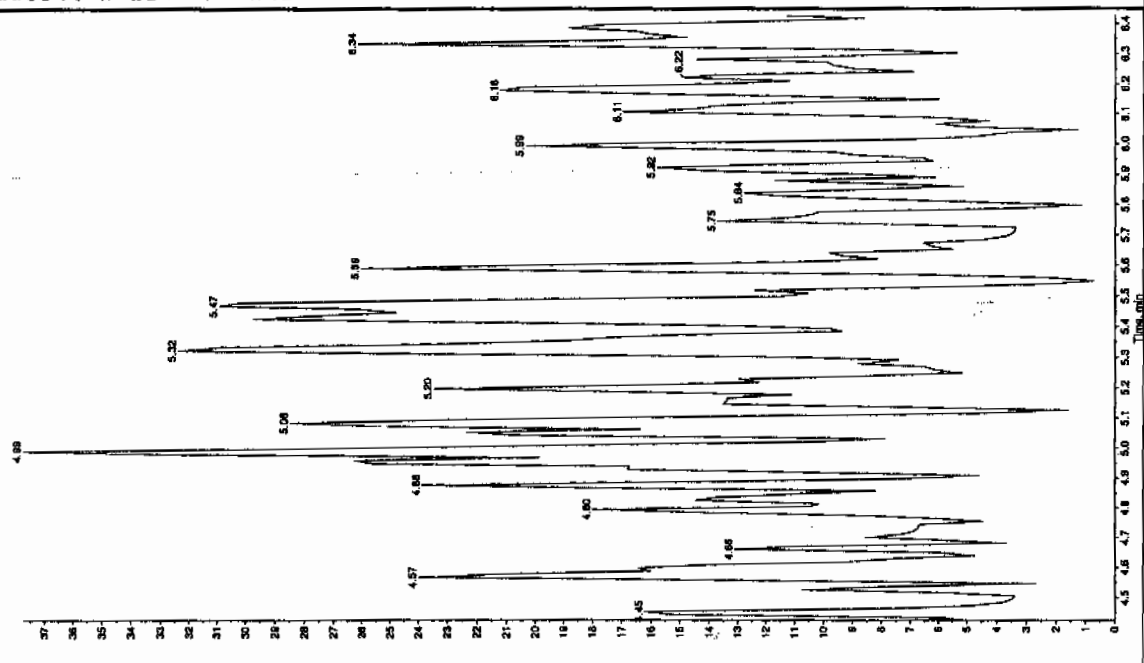
Sample Name: 'XBLK04' Sample ID: 'TILLER' File: 'EX53220023.will'
 Peak Name: '24-Dinitro-6-nitrofluorant' Mass(es): '166.046.0 amu'

Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 8:58:35 PM

Modified: No

Intensity, cps



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 23-MAR-10 00:22

GEL Data File: EXS03220036.wiff

Instrument ID: LCMSMS

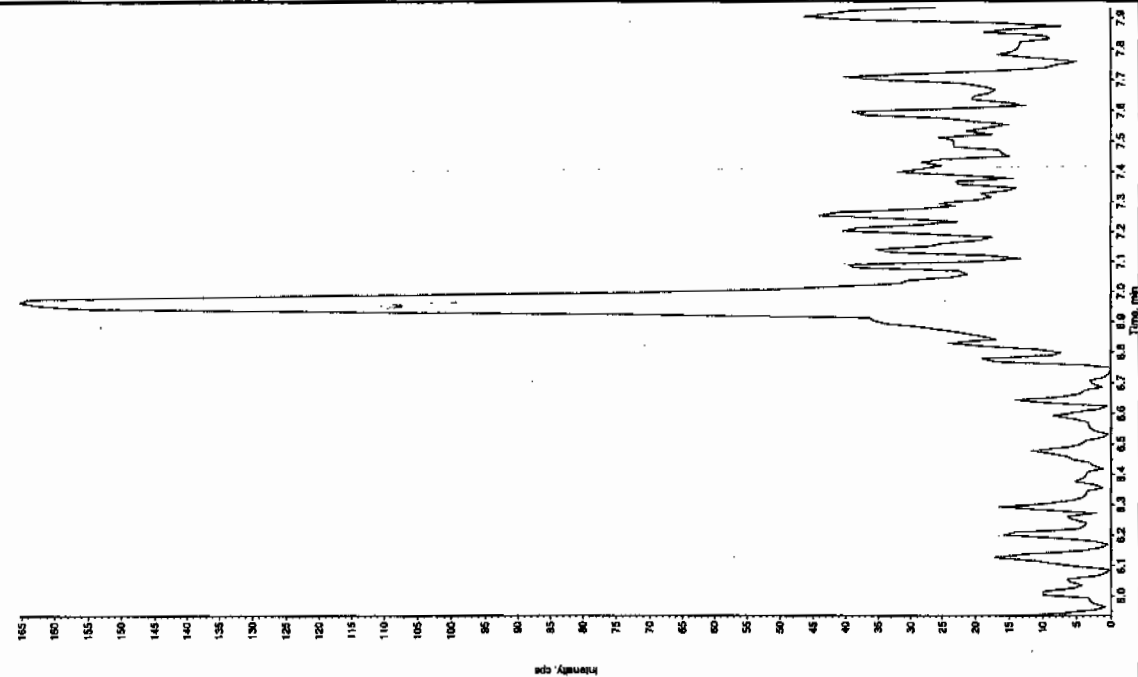
Column: Phenomenex Ultracarb 5u ODS(20)

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

San 3/27/10

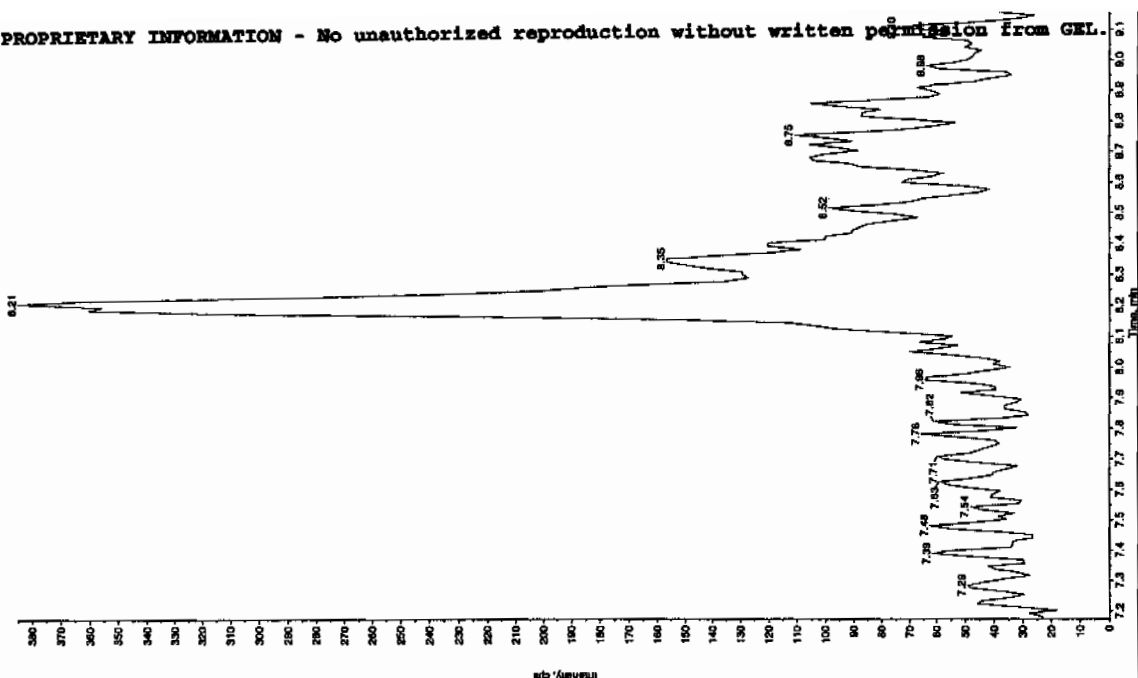
Sample Name: "XIBLK05" Sample ID: "J11ER" File: "EX50220035.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XIBLK05" Sample ID: "J11ER" File: "EX50220035.wif"
Peak Name: "35-Dibenzosilole" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

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

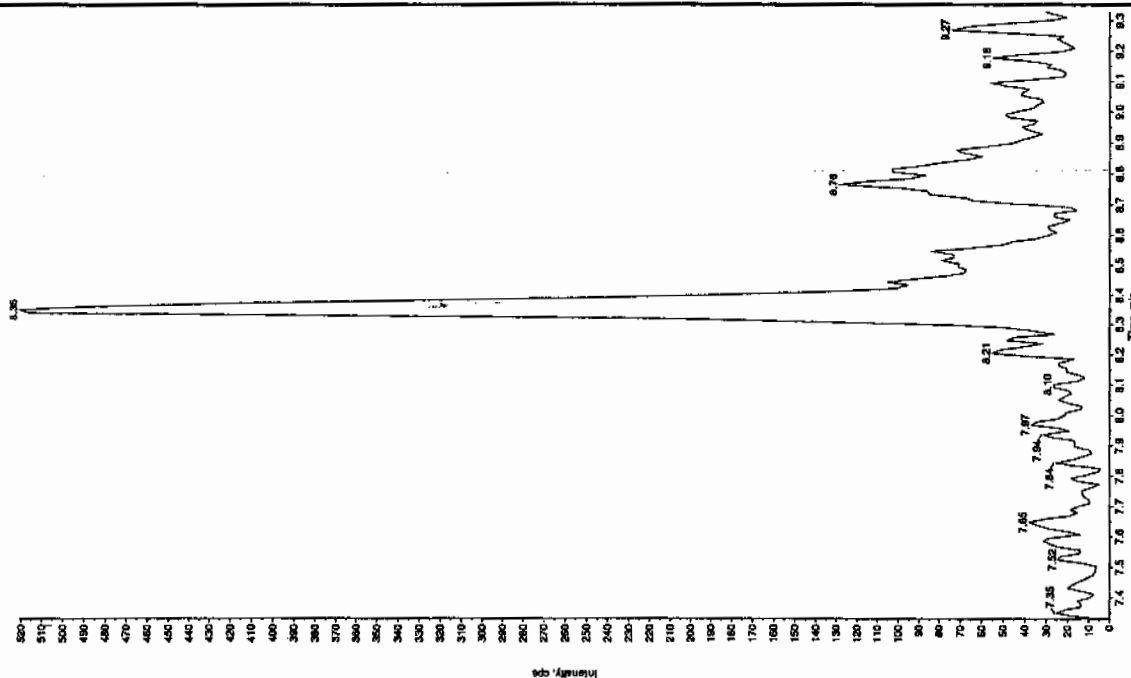


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

San 03/29/10

Sample Name: "YIBU.K05" Sample ID: "JLER" File: "EXS0220036.wif"
 Peak Name: "26-Diamino-4-ribose" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



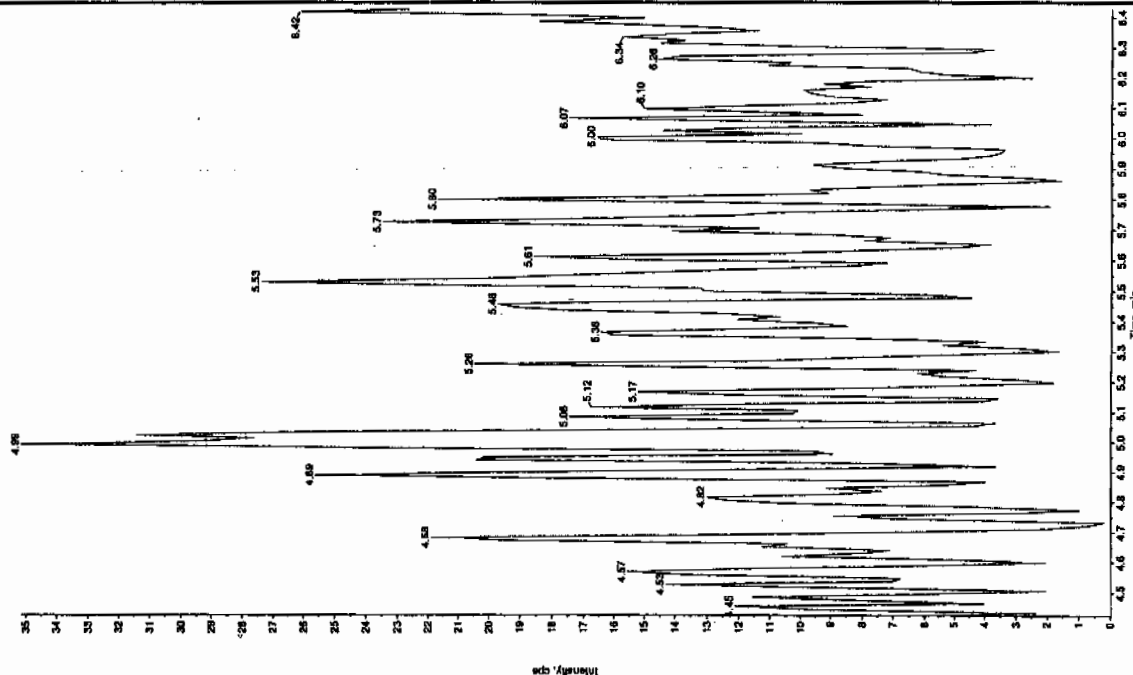
Sample Name: "YIBU.K05" Sample ID: "JLER" File: "EXS0220036.wif"
 Peak Name: "26-Diamino-4-ribose" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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

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

Sample Name: "XBLX05" Sample ID: "11111" File: "EX503220035.wif"
 Peak Name: "24-Dienilo-6-nitrobenzene" Mass(es): "166.048.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 6.43 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:22:53 AM
 Modified: No
 Proc Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.67e+004 counts
 Height: 14161.708 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 23-MAR-10 01:10

GEL Data File: EXS03220039.wiff

Instrument ID: LCMSMS

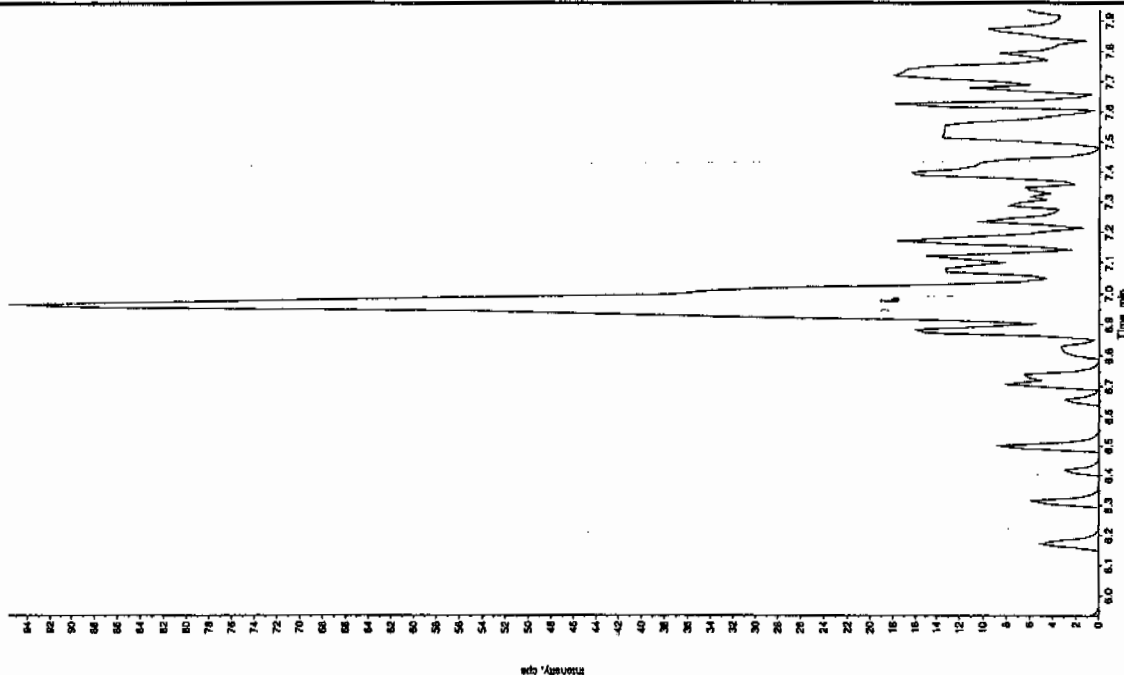
Column: Phenomenex Ultracarb 5u ODS(20)

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

Jan 30/10

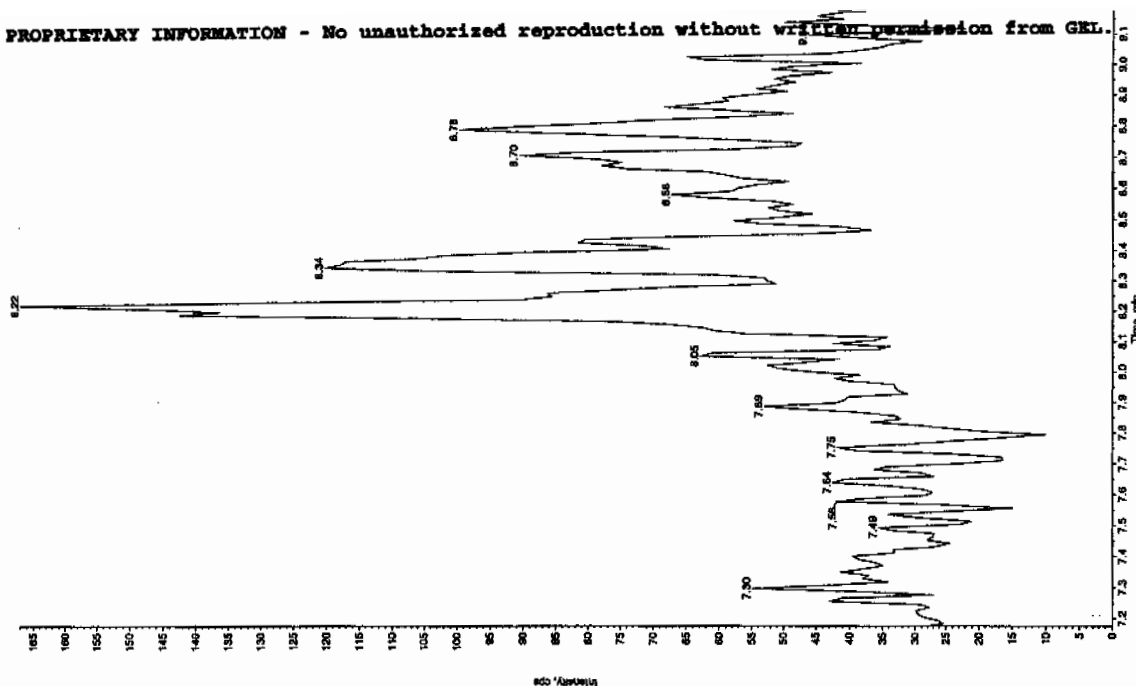
Sample Name: "XIBLX06" Sample ID: "1111ER" File: "EXS03220038.wif"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XIBLX06" Sample ID: "1111ER" File: "EXS03220038.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "180.0/165.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

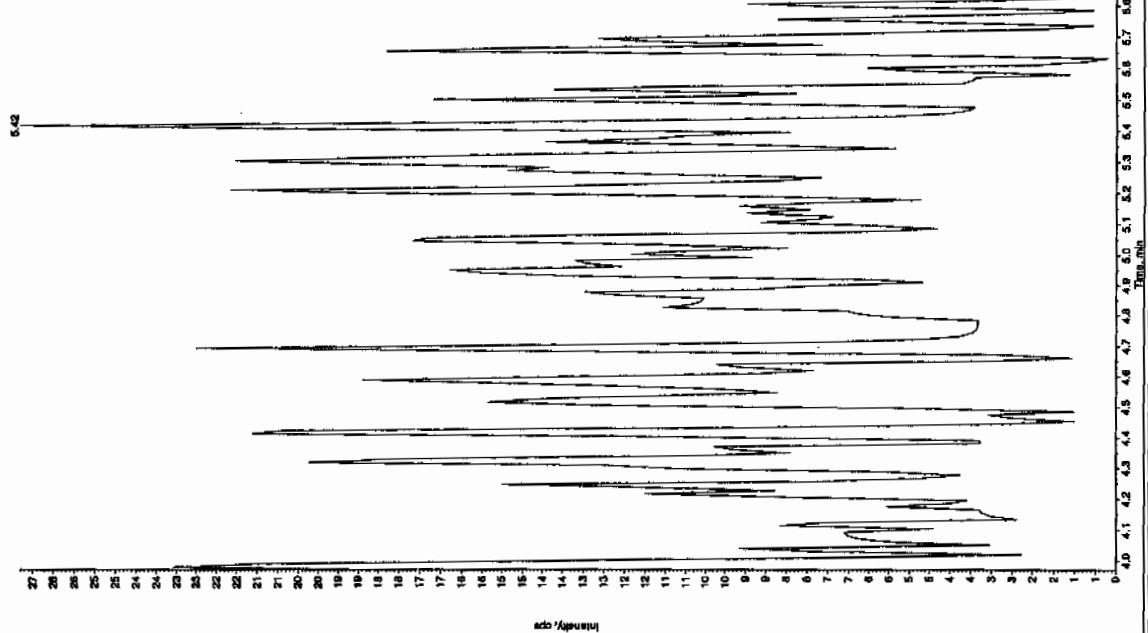
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:10:01 AM
Modified: No



Jan 03/29/10

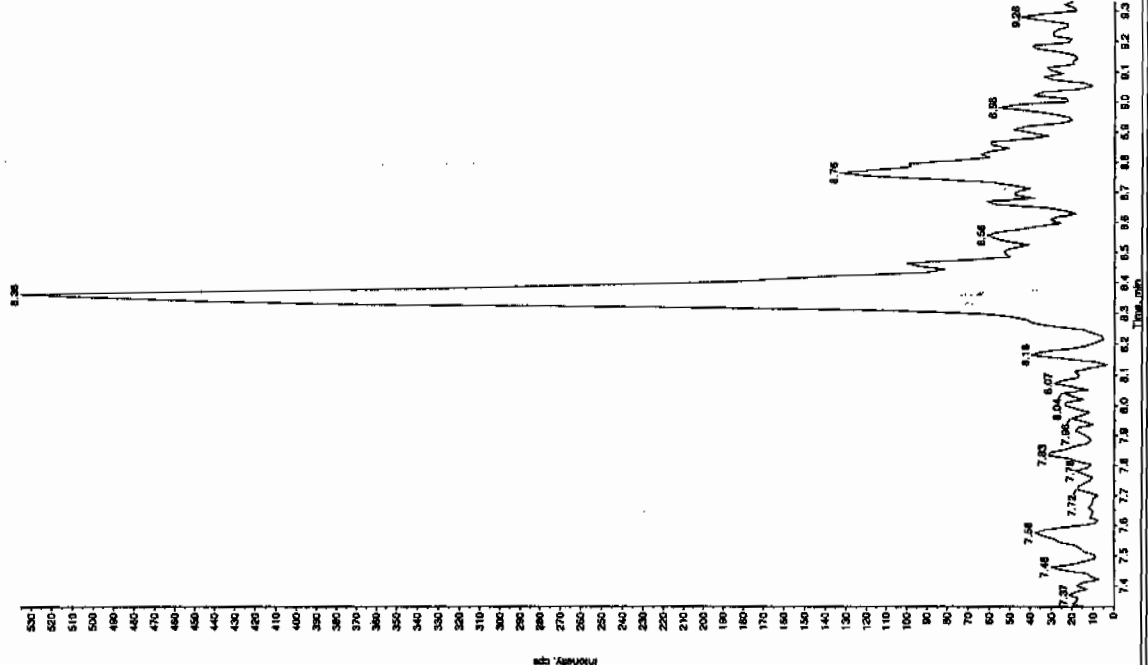
Sample Name: "XBLK06" Sample ID: "111ER" File: "EX30320039.wif"
Peak Name: "2a-Dinitrofluorene" Mass(es): "166.046.0 amu"
Comment: "LONSEP_B" Annotation: ""

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



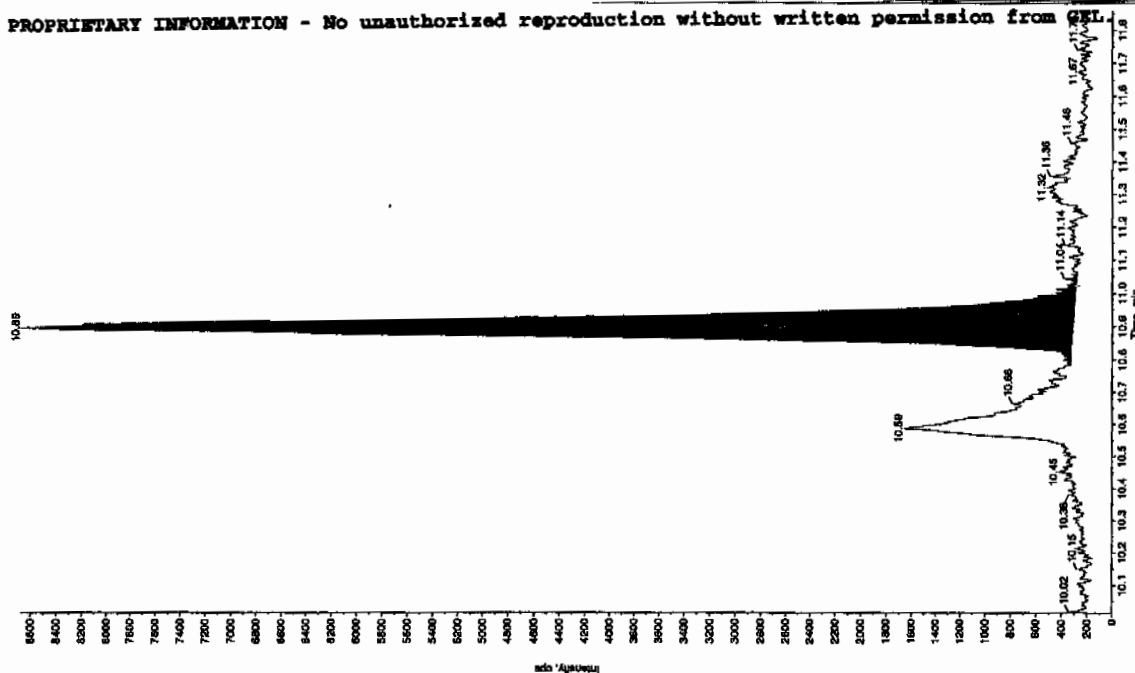
Sample Name: "XBLK06" Sample ID: "111ER" File: "EX30320039.wif"
Peak Name: "3a-Dinitrofluorene" Mass(es): "162.1715.9 amu"
Comment: "LONSEP_B" Annotation: ""

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



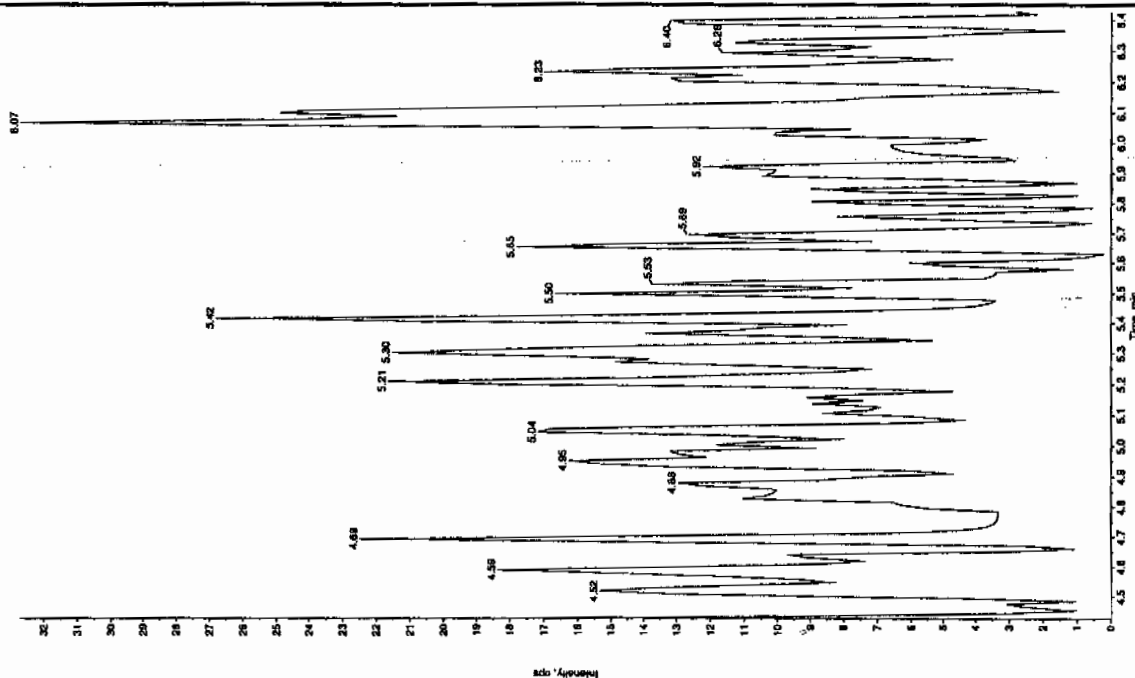
Sample Name: 'XIBUK05' Sample ID: 'TILER' File: 'EX50220039.wif'
 Peak Name: 'bis(4-oxocyclohexyl) phosphine' Mass(es): '359.181.0 amu'
 Comment: 'LCMS EXP B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 4.63 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IGA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 3.35e+004 counts
 Height: 8350.013 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: 'XIBUK05' Sample ID: 'TILER' File: 'EX50220039.wif'
 Peak Name: '24-Diamino-6-nitrotoluene' Mass(es): '166.046.0 amu'
 Comment: 'LCMS EXP B' Annotation: ''

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



Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 23-MAR-10 03:47

GEL Data File: EXS03220049.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

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

See 3/27/10

Sample Name: "XIBLK07" Sample ID: "JILLER" File: "EXS03220049.wif"

Peak Name: "TATB" Mass(es): "257.2204.8 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

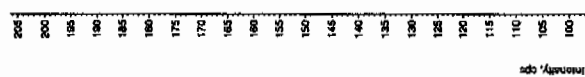
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 3:47:13 AM

Modified: No



Sample Name: "XIBLK07" Sample ID: "JILLER" File: "EXS03220049.wif"

Peak Name: "35-Dinitrocinoline" Mass(es): "182.0460.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/23/2010

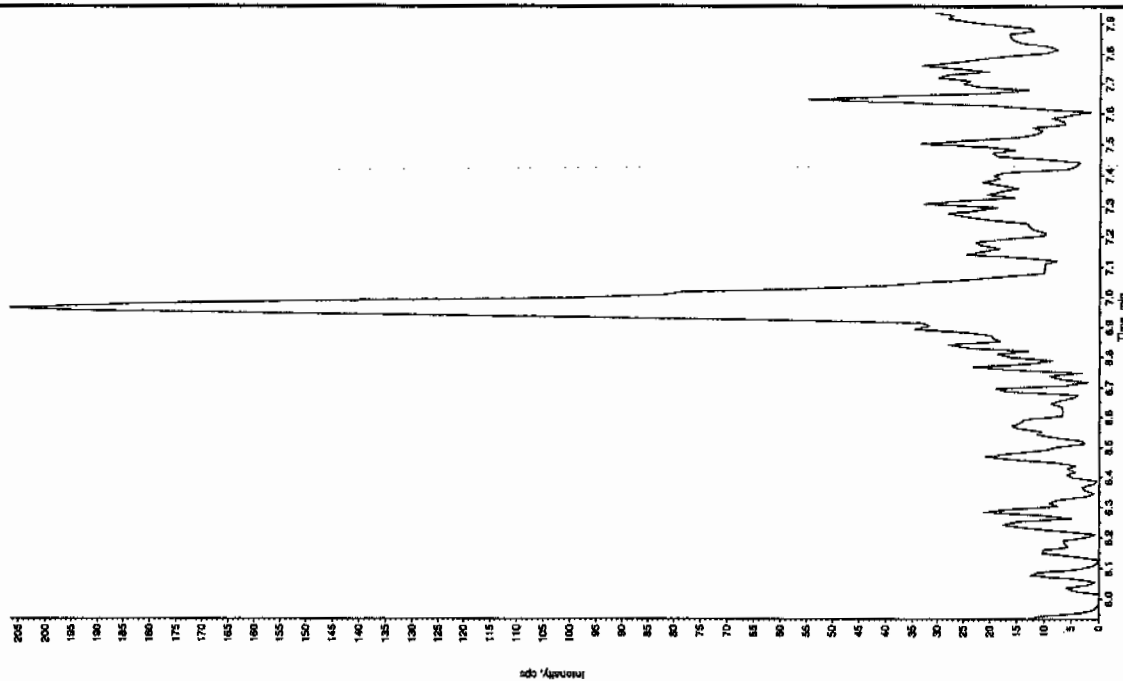
Acq. Time: 3:47:13 AM

Modified: No



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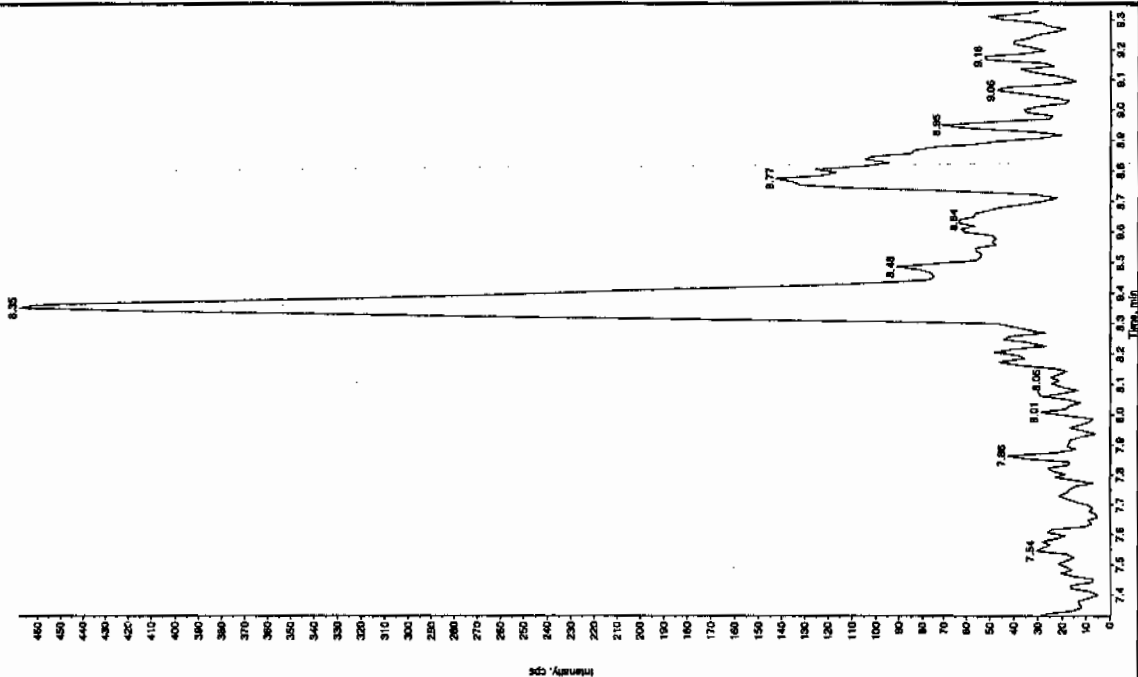
See 03/29/10



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

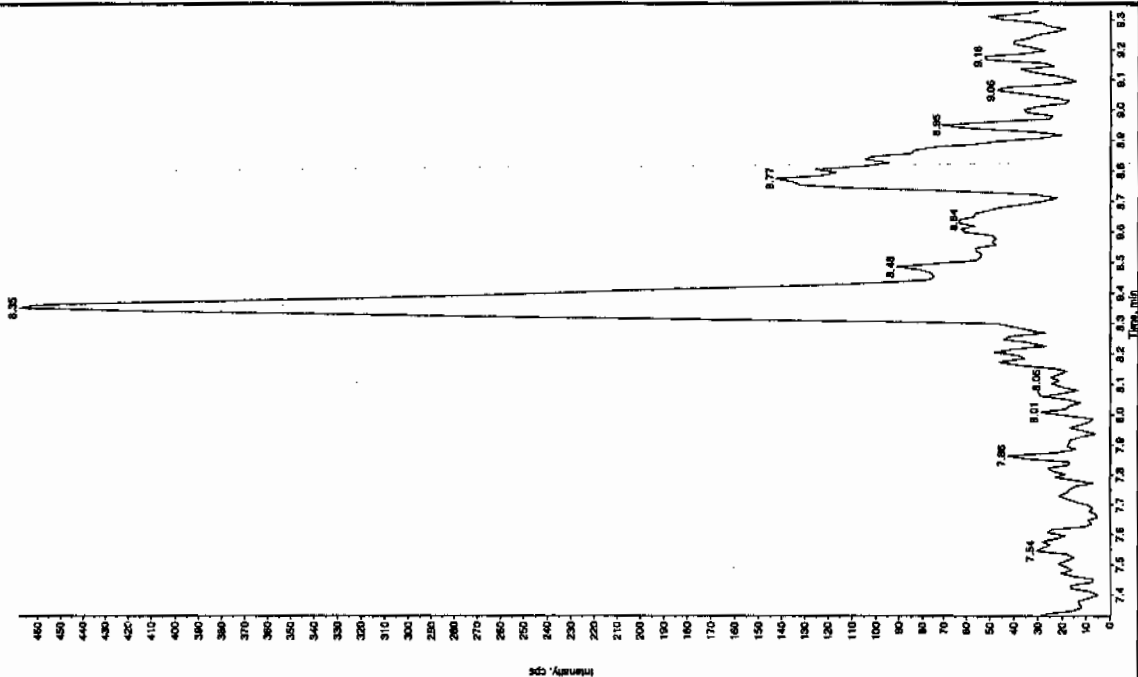
Sample Name: "XBLK07" Sample ID: "T1LER" File: "EXS03220048.wif"
 Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "188.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

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



Sample Name: "XBLK07" Sample ID: "T1LER" File: "EXS03220048.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1451.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

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



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

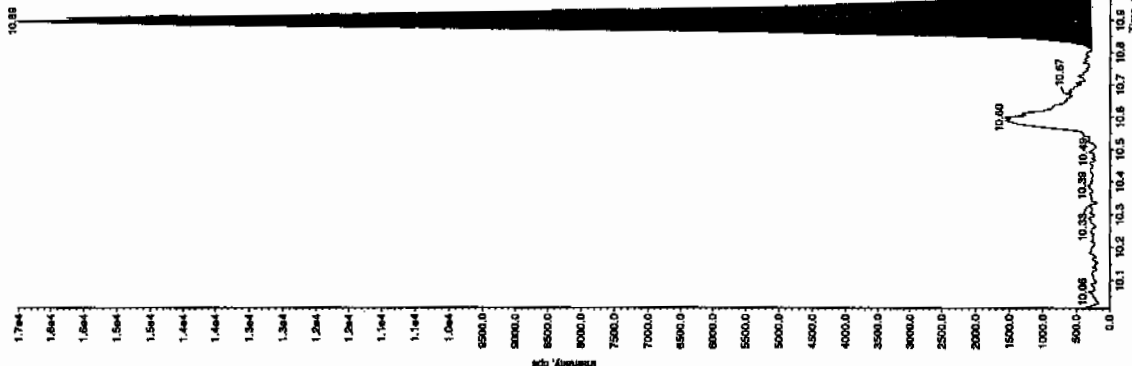
Sample Name: "XIBLK07" Sample ID: "111ER" File: "EX0322040.wif"
 Peak Name: "tris(2-chloro-6-nitrophenyl) phosphite" Mass(es): "388.1811.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 7.15 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:47:13 AM

Modified:
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.61e+004 counts
 Height: 16226.908 CPS
 Start Time: 10.8 min
 End Time: 11.1 min

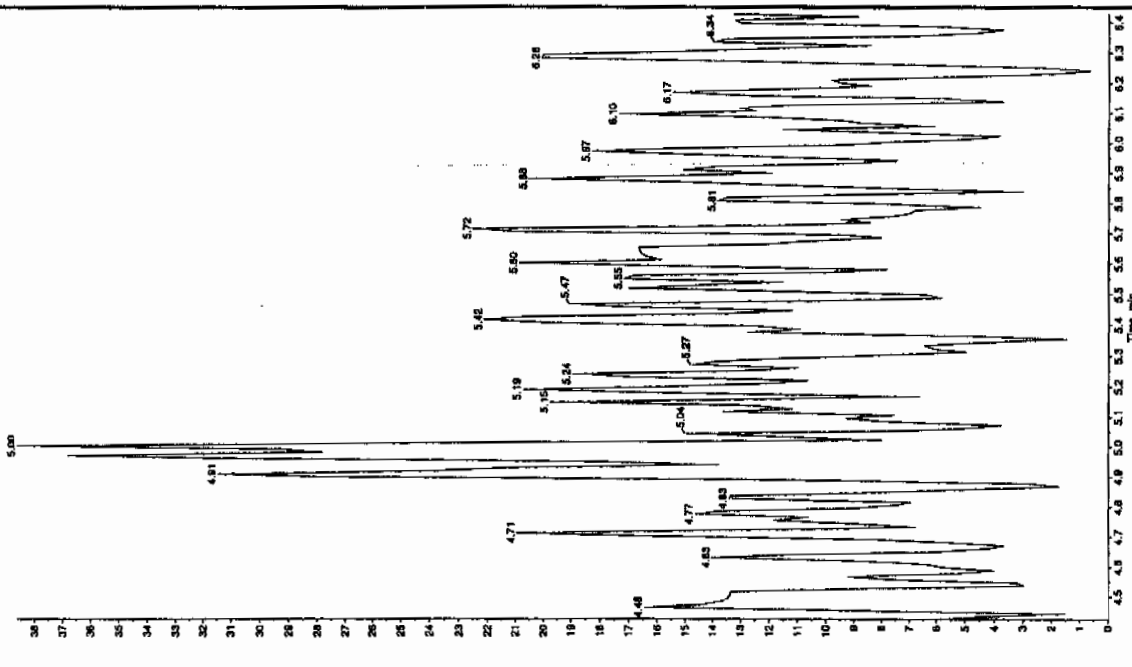


Sample Name: "XIBLK07" Sample ID: "111ER" File: "EX0322040.wif"
 Peak Name: "24-Chloro-6-nitrophenol" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:47:13 AM

Modified: No



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 23-MAR-10 06:24

GEL Data File: EXS03220059.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

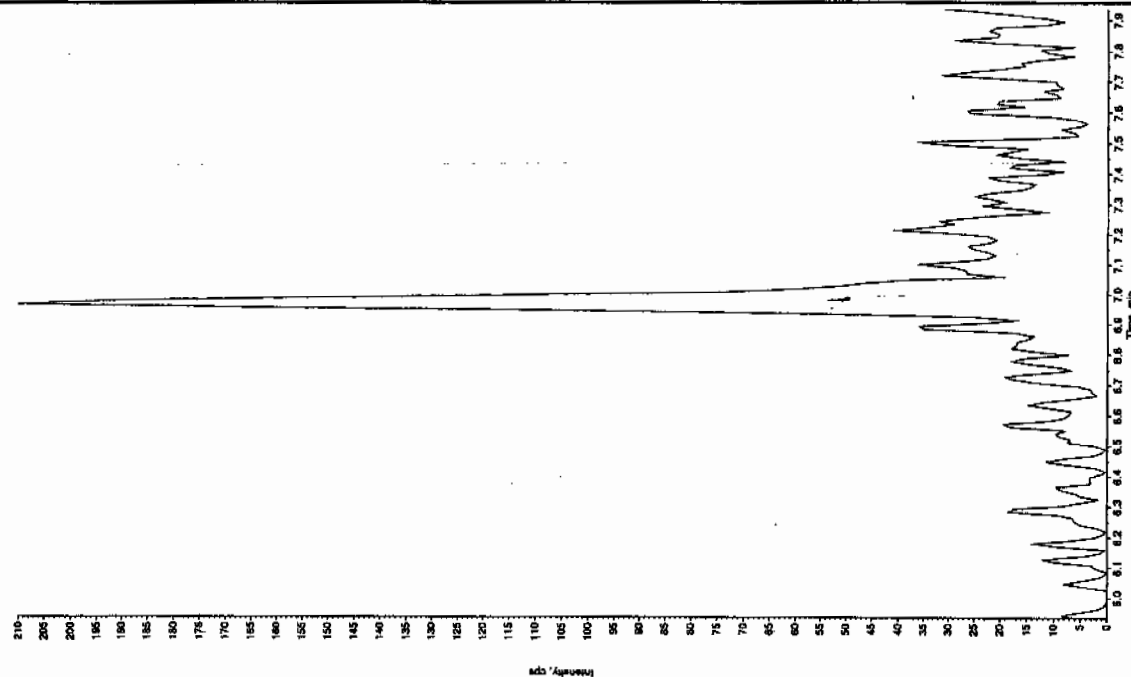
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.69
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/27/10

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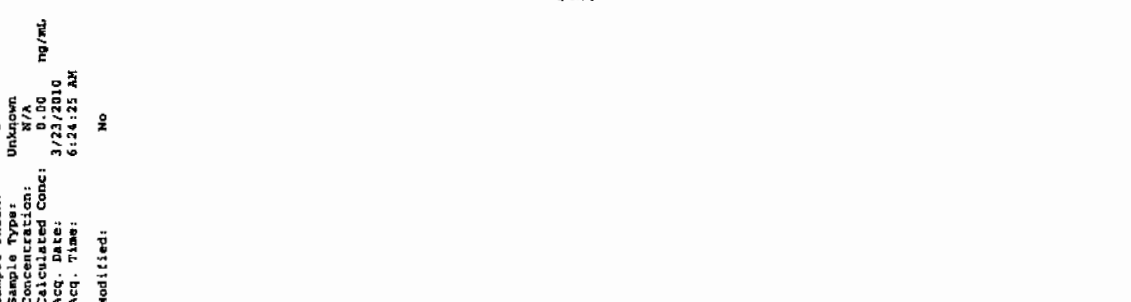
Sample Name: "XIBLK08" Sample ID: "1111" File: "EXS0220053.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 6:24:25 AM
Modified: No



Sample Name: "XIBLK08" Sample ID: "1111" File: "EXS0220053.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 6:24:25 AM
Modified: No



Jan 3/27/10

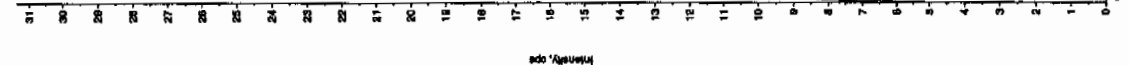
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLX08" Sample ID: "111ER" File: "EXS0020069.wif"

Peak Name: "26-Dienio-4-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:24:25 AM
 Modified: No

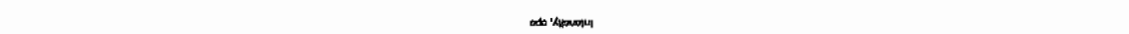


Sample Name: "XIBLX08" Sample ID: "111ER" File: "EXS0020069.wif"

Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

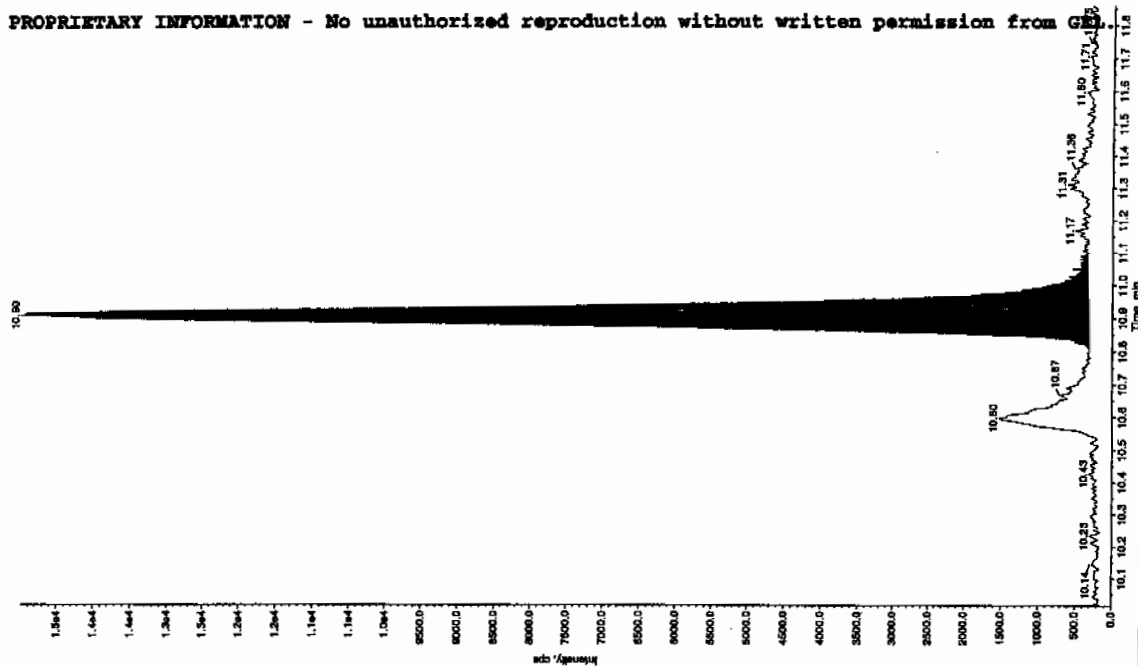
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:24:25 AM
 Modified: No



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

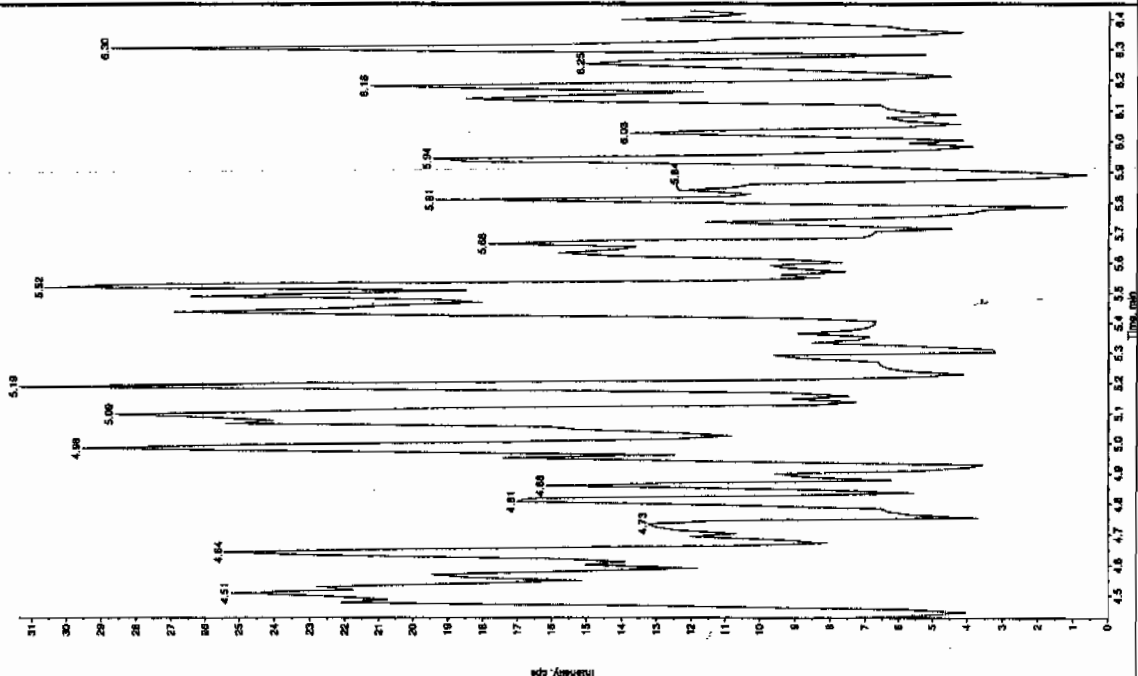
Sample Name: "XIBL K08" Sample ID: "JILR" File: "EXS0220059.wif"
 Peak Name: "Vid(o-creyl) phosphate" Mass(es): "369.181.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 6.69 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:24:25 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.01e+004 counts
 Height: 14680.022 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBL K08" Sample ID: "JILR" File: "EXS0220059.wif"
 Peak Name: "24-Oxandro-Entrostuene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.80 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:24:25 AM
 Modified: No



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 23-MAR-10 09:48

GEL Data File: EXS03220072.wiff

Instrument ID: LCMSMS

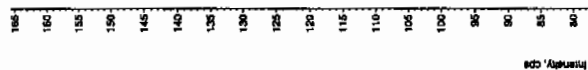
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	7.23
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/27/10

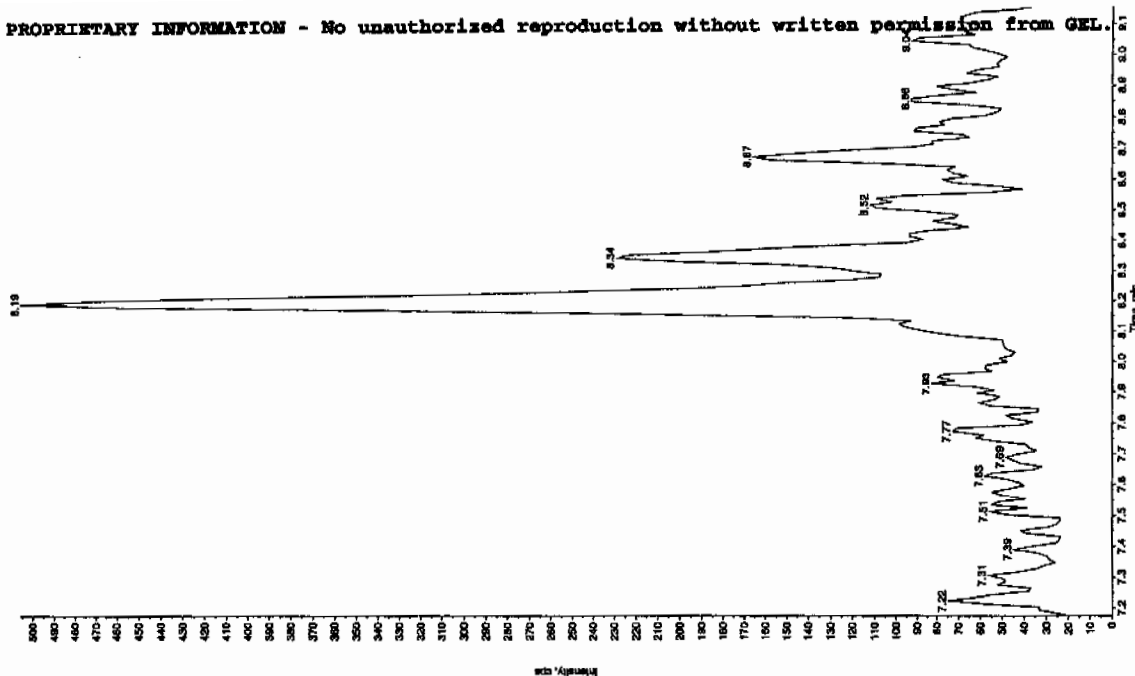
Sample Name: "XBL009" Sample ID: "T1LER" File: "EXS03220072.wif"
Peak Name: "TATB" Mass(es): "257.2/263.9 amu"
Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 0.00
Acq. Date: 3/23/2010
Acq. Time: 9:48:44 AM
Modified: No



Sample Name: "XBL009" Sample ID: "T1LER" File: "EXS03220072.wif"
Peak Name: "3S-Chloroallene" Mass(es): "102.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: "

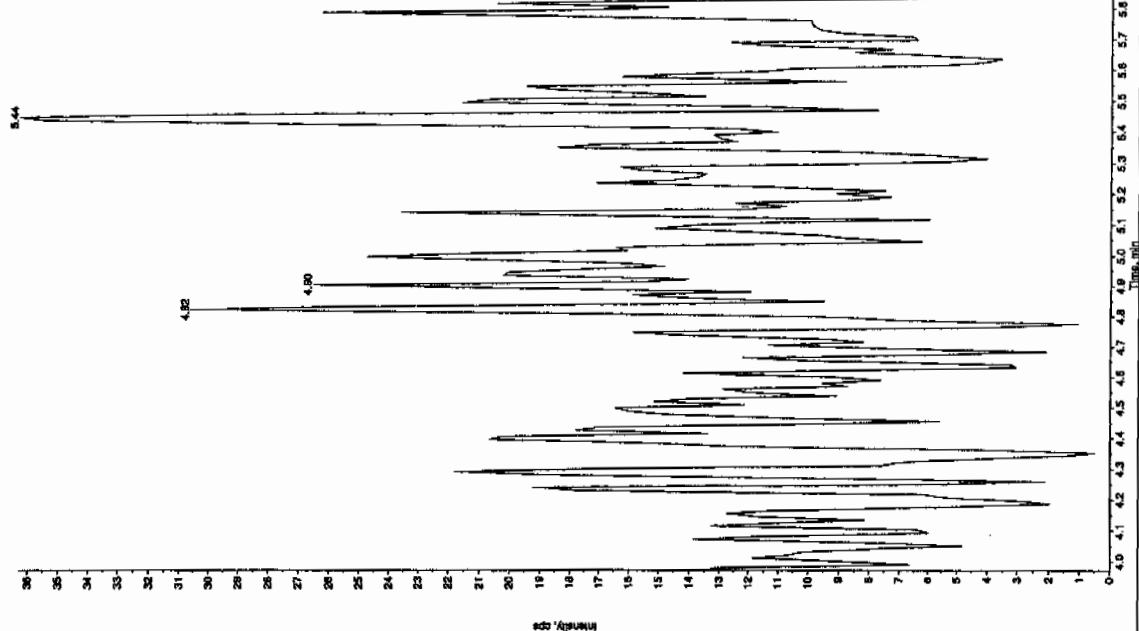
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 0.00
Acq. Date: 3/23/2010
Acq. Time: 9:48:44 AM
Modified: No



dmw03p9/10

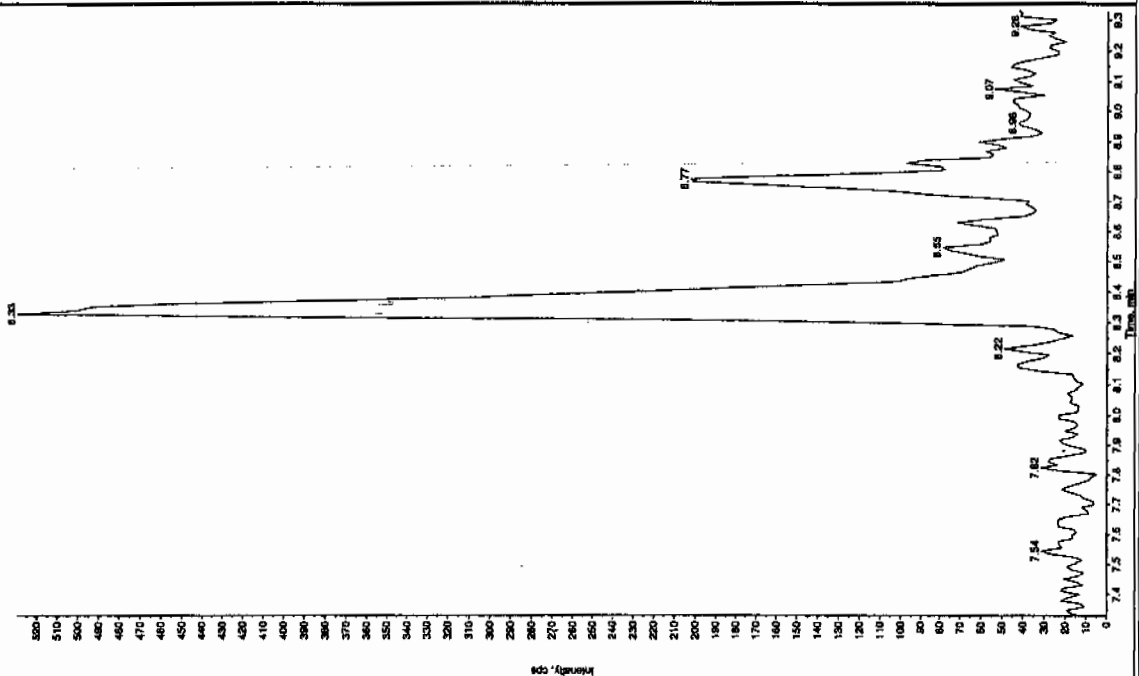
Sample Name: 'VIBLX09' Sample ID: '1111EP' File: 'EX010220072.wif'
 Peak Name: '25-Diamino-4-thiouridine' Mass(es): '166.046.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:48:44 AM
 Modified: No



Sample Name: 'VIBLX09' Sample ID: '1111EP' File: 'EX010220072.wif'
 Peak Name: '3a-Denitrothiuridine' Mass(es): '182.1151.9 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

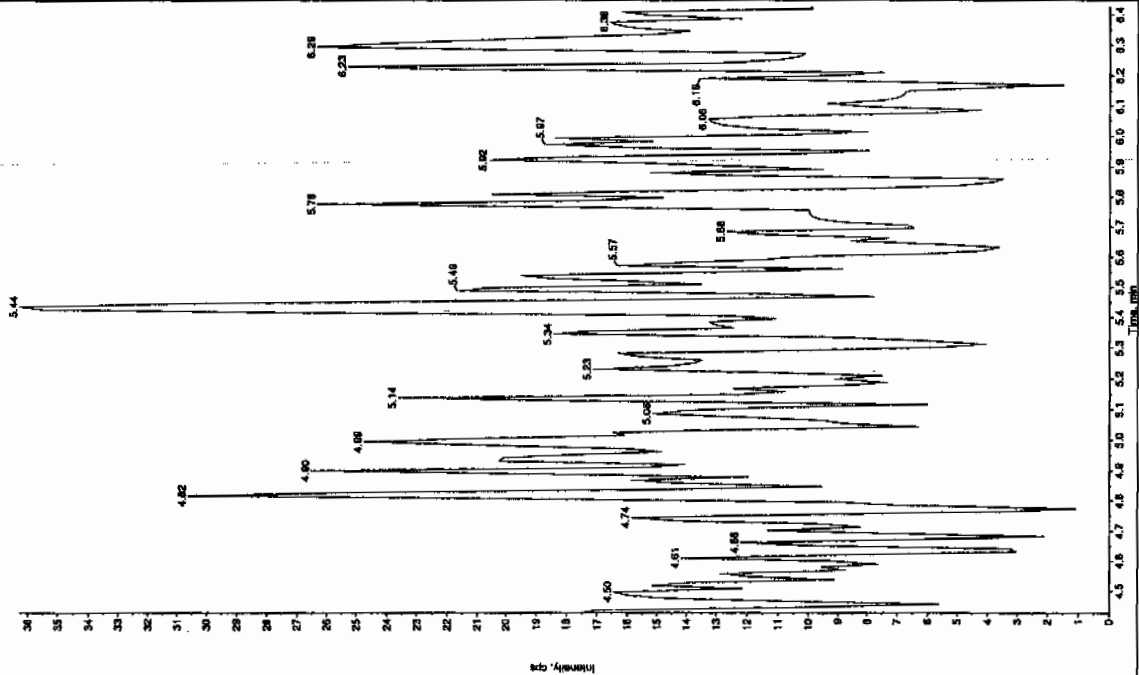
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:48:44 AM
 Modified: No



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

Sample Name: "WBLK09" Sample ID: "111ER" File: "EX030220072.wif"
 Peak Name: "bis(o-cresyl) phosphazene" Mass(es): "369.1/91.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 7.23 mg/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:48:44 AM
 Modified: No
 Proc. Algorithm: IonScan - ION
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.72e+004 counts
 Height: 18398.417 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "WBLK09" Sample ID: "111ER" File: "EX030220072.wif"
 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 mg/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:48:44 AM
 Modified: No

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 23-MAR-10 13:13

GEL Data File: EXS03220085.wiff

Instrument ID: LCMSMS

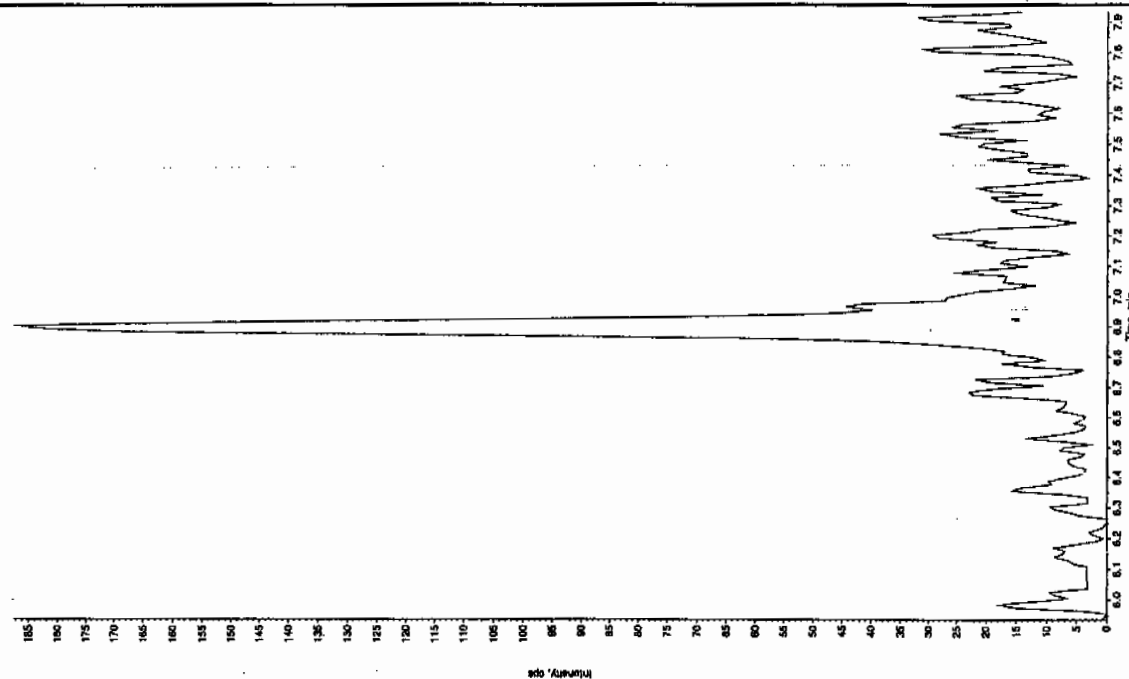
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.12
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

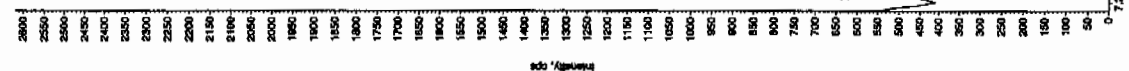
Jan 3/2/10

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Sample Name: "XIBLK10" Sample ID: "111ER" File: "EXS03220085.wif"
Peak Name: "35-Dinitrobenzine" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_B" Annotation: "
Sample Index: 1
Sample Type: Unknown
Concentration: N/A ng/mL
Calculated Conc: 0.00
Acq. Date: 3/23/2010
Acq. Time: 1:13:43 PM
Modified: No



Sample Name: "XIBLK10" Sample ID: "111ER" File: "EXS03220085.wif"
Peak Name: "YATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: "
Sample Index: 1
Sample Type: Unknown
Concentration: N/A ng/mL
Calculated Conc: 0.00
Acq. Date: 3/23/2010
Acq. Time: 1:13:43 PM
Modified: No

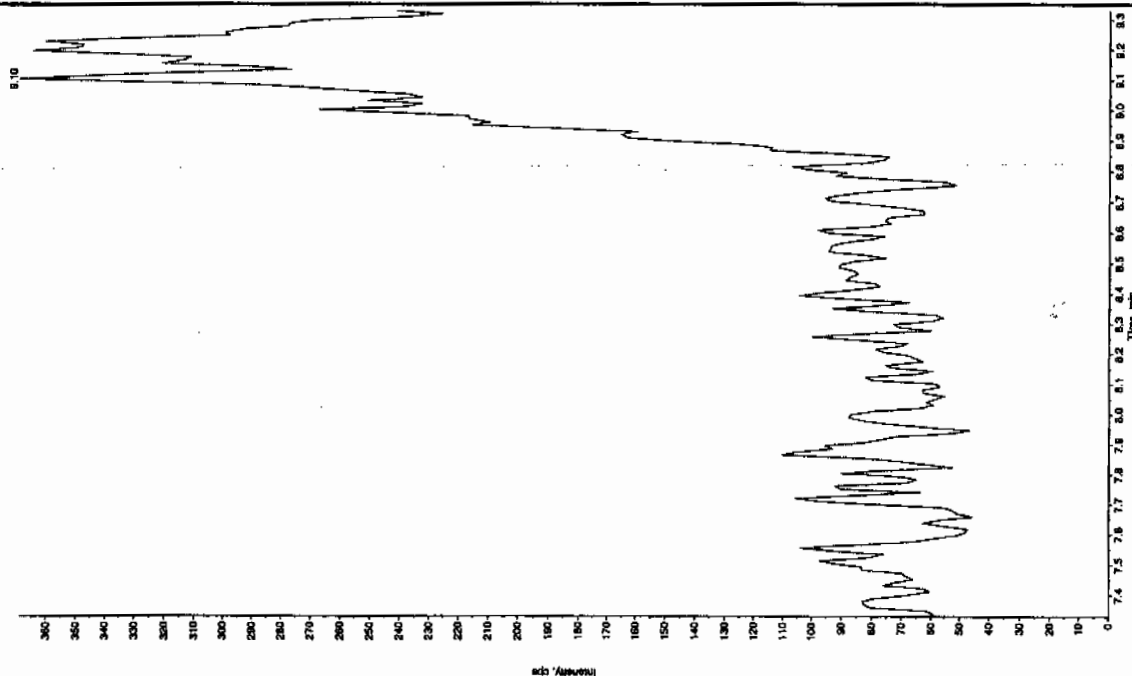


Sample Name: "XIBLK10" Sample ID: "111ER" File: "EXS03220085.wif"
Peak Name: "35-Dinitrobenzine" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_B" Annotation: "
Sample Index: 1
Sample Type: Unknown
Concentration: N/A ng/mL
Calculated Conc: 0.00
Acq. Date: 3/23/2010
Acq. Time: 1:13:43 PM
Modified: No

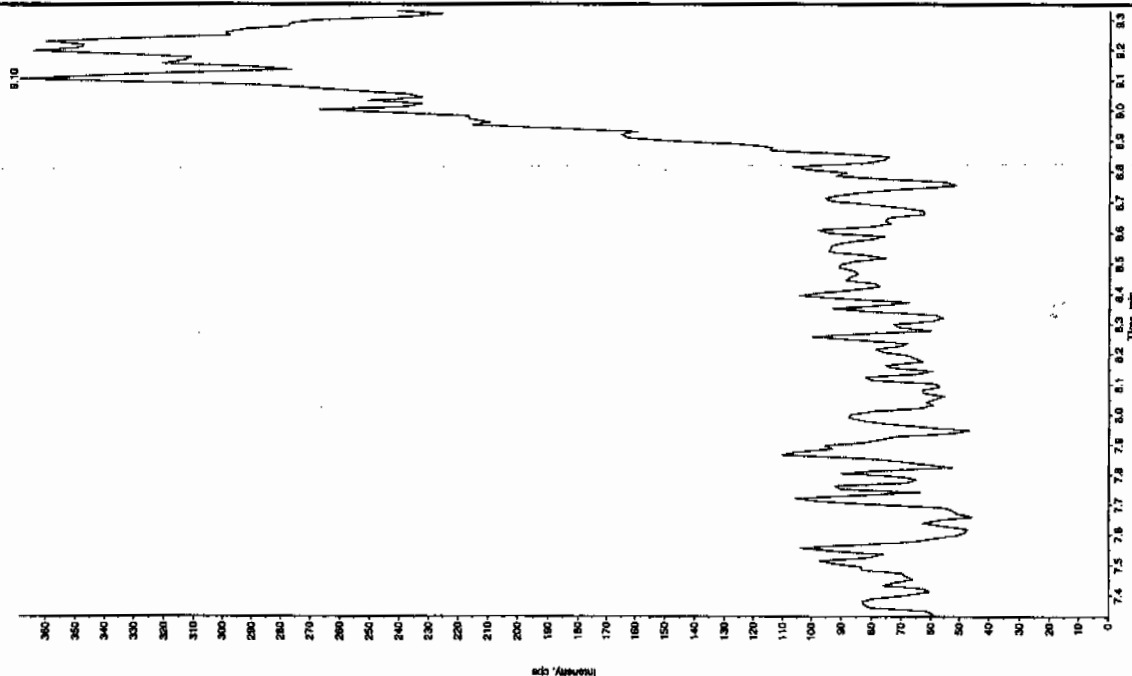
Jan 3/2/10

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

Sample Name: "XIBLK10" Sample ID: "111ER" File: "EXS0220085.wif"
 Peak Name: "28-Diethyl-4-nitrobenzene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:13:43 PM
 Modified: No



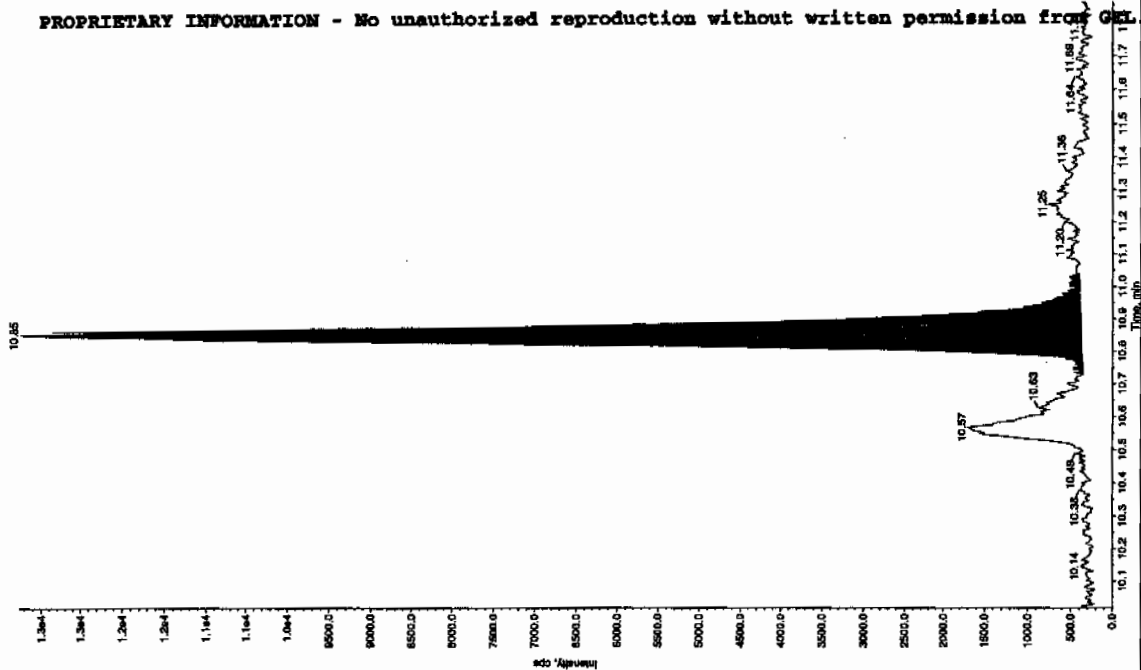
Sample Name: "XIBLK10" Sample ID: "111ER" File: "EXS0220085.wif"
 Peak Name: "34-Diethyl-4-nitrobenzene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:13:43 PM
 Modified: No



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

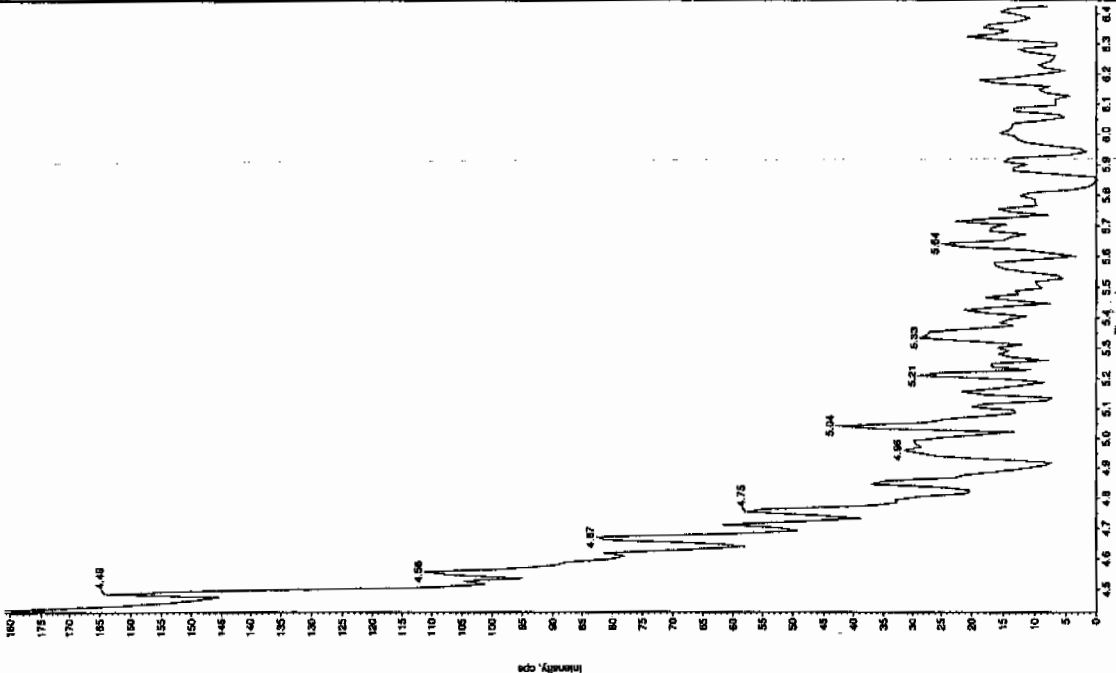
Sample Name: "XBLK10" Sample ID: "11LFR" File: "EXS0220085.wif"
 Peak Name: "Nigro-cyan phosphate" Mass(es): "389.191.0 amu"
 Comment: "LCMSEXP_B" Acquisition: "

Sample Index: 1
 Sample Name: Unknown
 Concentration: N/A
 Calculated Conc: 5.12 ug/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:13:43 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 5.27e+004 counts
 Height: 12883.297 cps
 Start Time: 0.7 min
 End Time: 11.0 min



Sample Name: "XBLK10" Sample ID: "11LFR" File: "EXS0220085.wif"
 Peak Name: "24-Oxolinic-6-ribitolamine" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Acquisition: "

Sample Index: 1
 Sample Name: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:13:43 PM
 Modified: No



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 23-MAR-10 15:05

GEL Data File: EXS03220092.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	5.74
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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Sample Name: "XIBLK11" Sample ID: "111ER" File: "EXS03220082.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

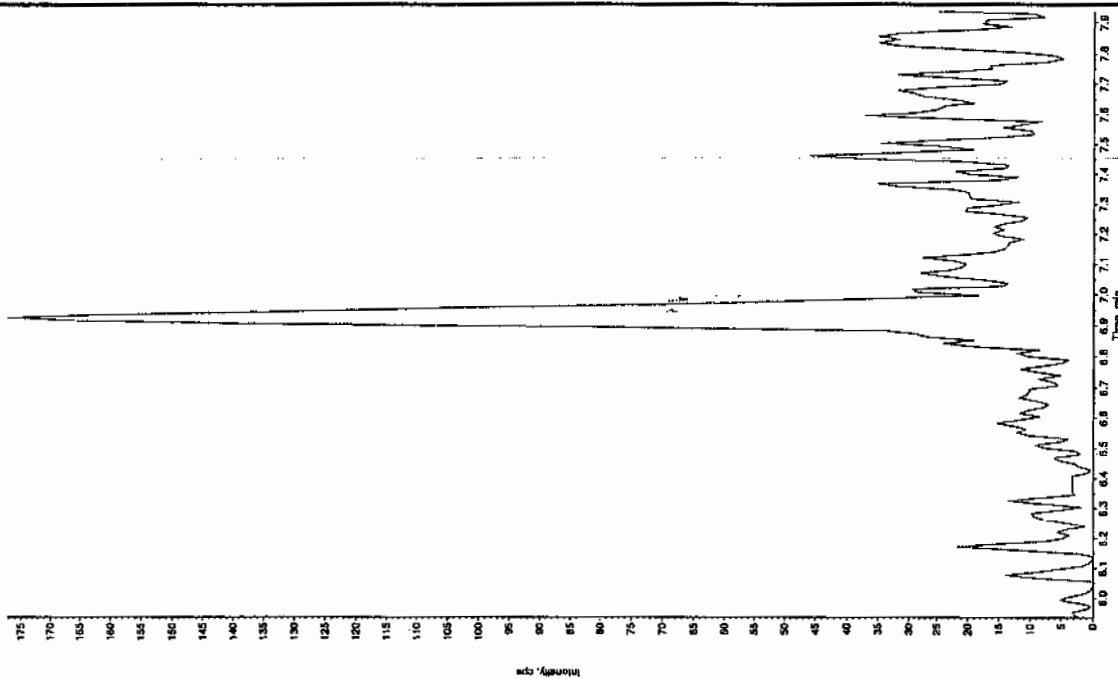
Concentration: 0.00 mg/mL

Calculated Conc: 3/23/2010

Acq. Date: 3:05:06 PM

Acq. Time: No

Modified:



Sample Name: "XIBLK11" Sample ID: "111ER" File: "EXS03220082.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

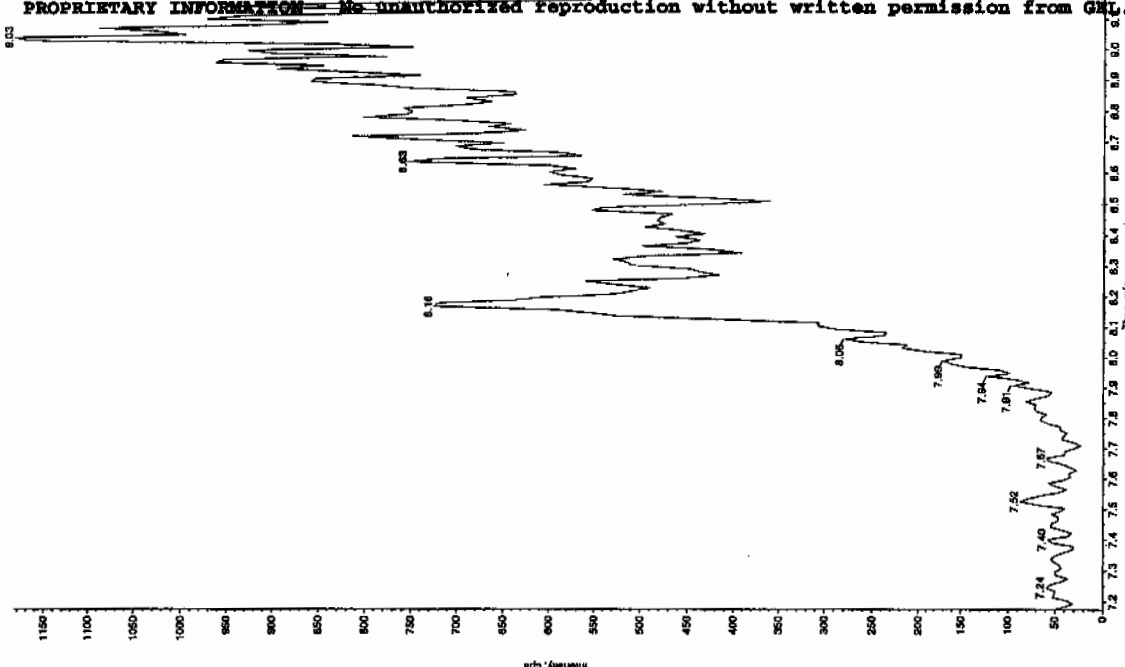
Concentration: 0.00 mg/mL

Calculated Conc: 3/23/2010

Acq. Date: 3:05:06 PM

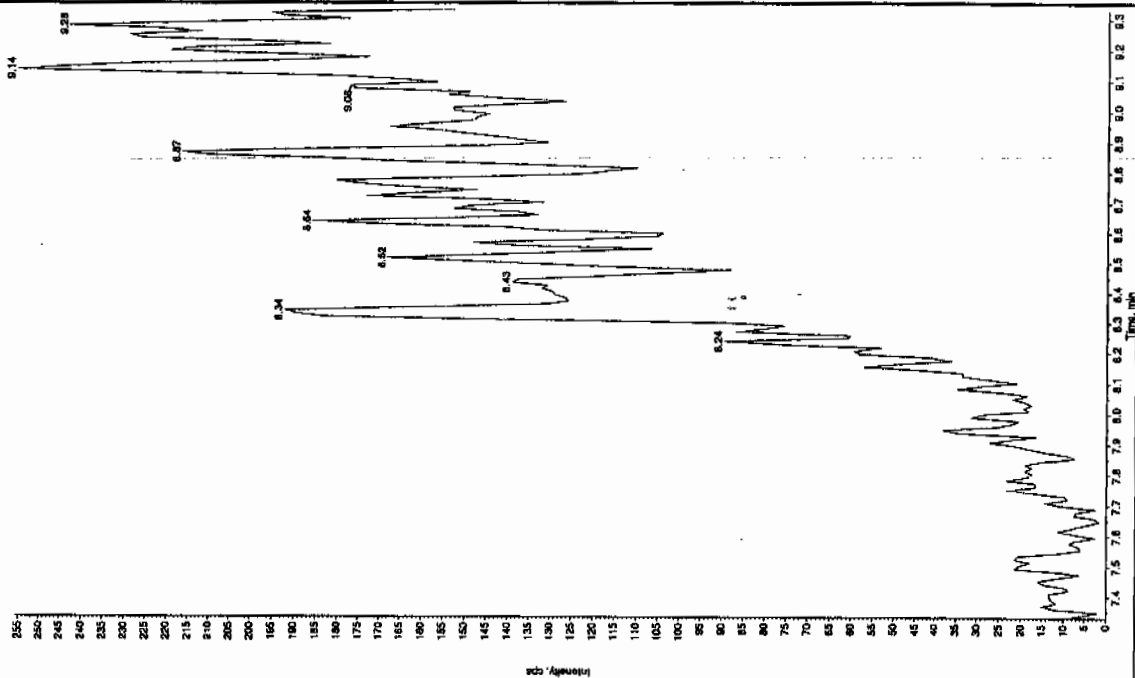
Acq. Time: No

Modified:



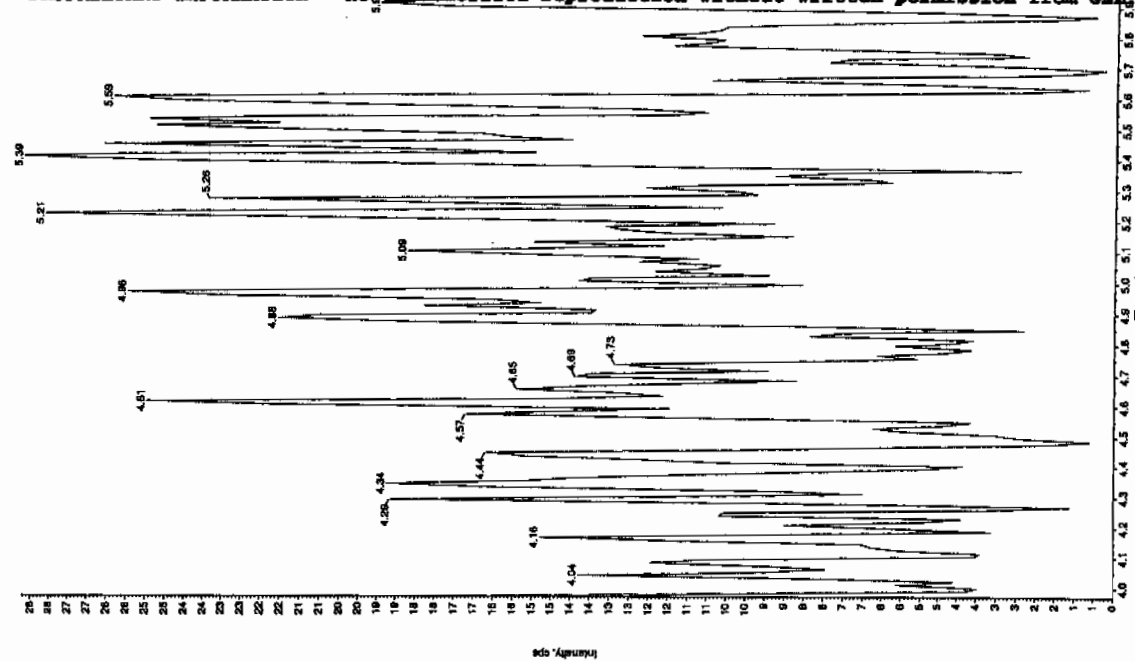
Sample Name: "XBLK11" Sample ID: "HLEF" File: "EX03220092.wht"
 Peak Name: "34-Dinitrodiene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 3/05/06 PM
 Acq. Time: 3:05:06 PM
 Modified: No



Sample Name: "XBLK11" Sample ID: "HLEF" File: "EX03220092.wht"
 Peak Name: "26-Diampho-4-nitrodiene" Mass(es): "166.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 3/05/06 PM
 Acq. Time: 3:05:06 PM
 Modified: No



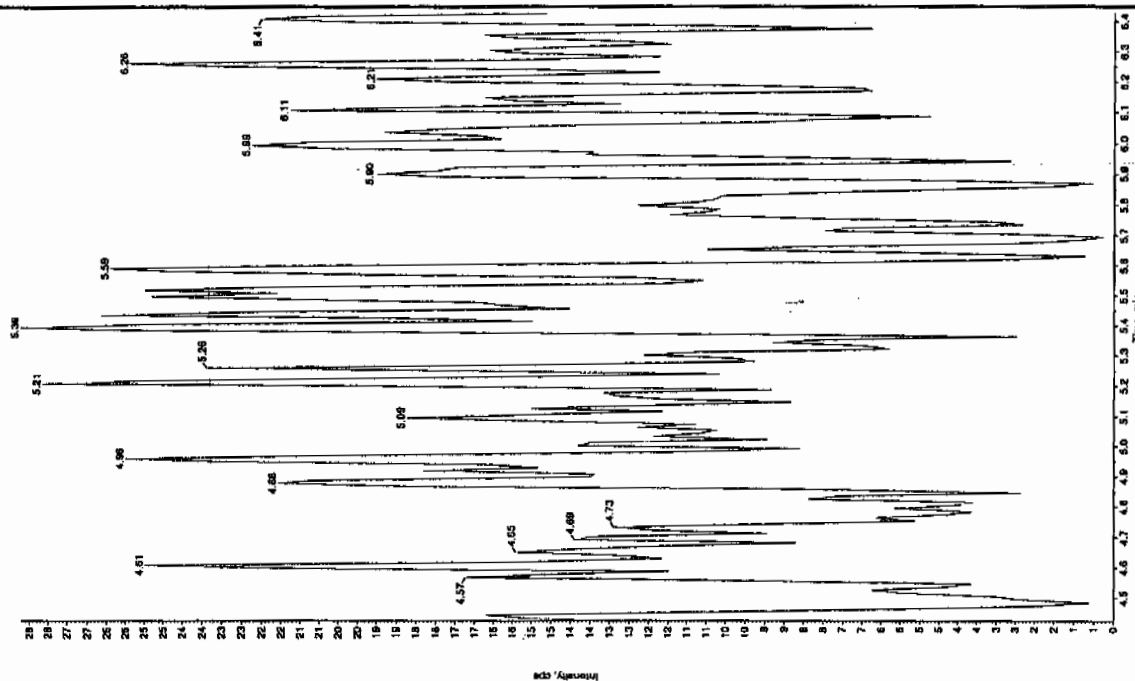
Sample Name: "XBLK11" Sample ID: "1111" File: "EXS0322032.wit"
 Peak Name: "nitro-crenol phosphate" Mass(es): "389.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown
 Concentration: 5.74 ug/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 3:05:06 PM
 Acq. Time: 3:05:06 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.79e+004 counts
 Height: 11853.430 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Name: "XBLK11" Sample ID: "1111" File: "EXS0322032.wit"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown
 Concentration: 5.74 ug/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 3:05:06 PM
 Acq. Time: 3:05:06 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.79e+004 counts
 Height: 11853.430 cps
 Start Time: 10.8 min
 End Time: 11.0 min

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 23-MAR-10 15:52

GEL Data File: EXS03220095.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.33
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Sample Name: "XIBLK12" Sample ID: "T11ER" File: "EXS03220066.wif"

Peak Name: "35-Oxibutanol" Mass(es): "1182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

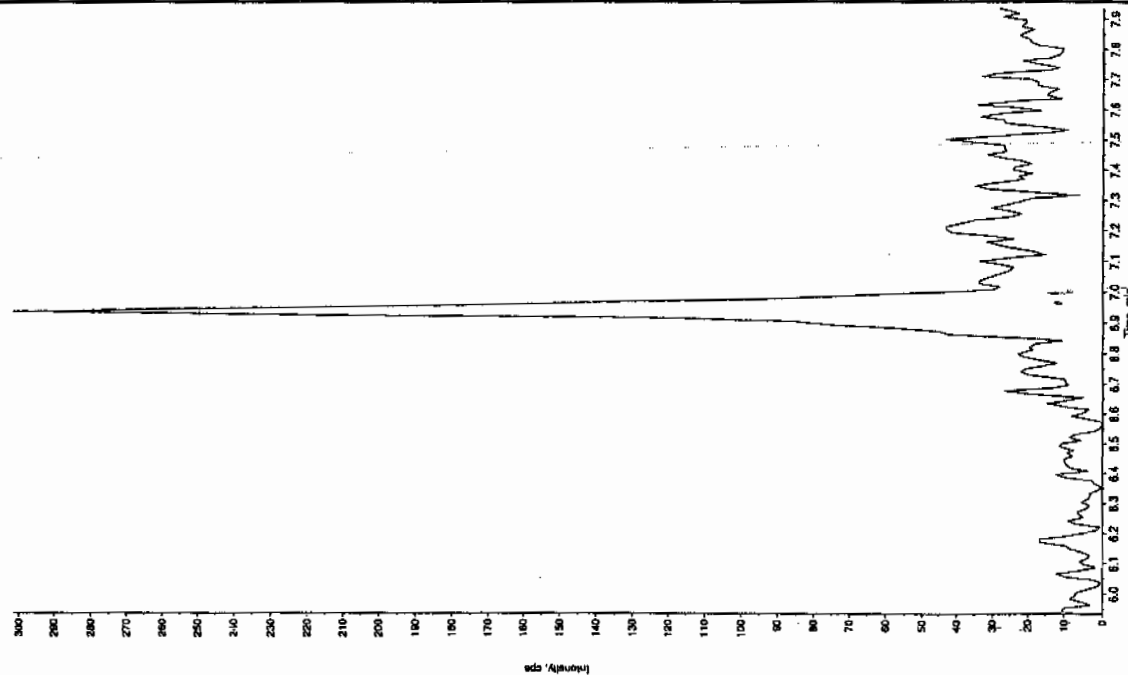
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 3:52:18 PM

Modified: No



Sample Name: "XIBLK12" Sample ID: "T11ER" File: "EXS03220066.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 3:52:18 PM

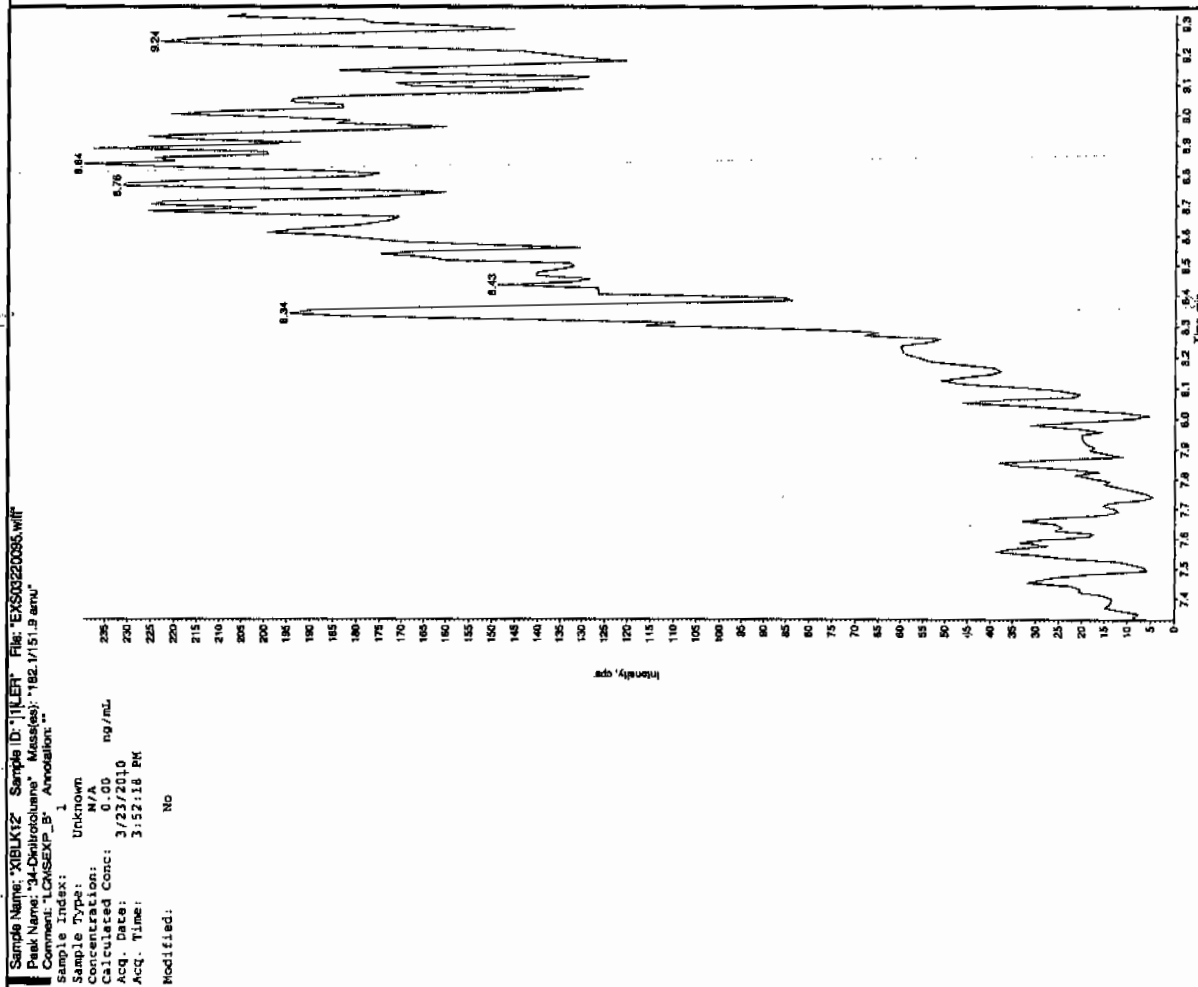
Modified: No

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4/11/2010 3/29/10

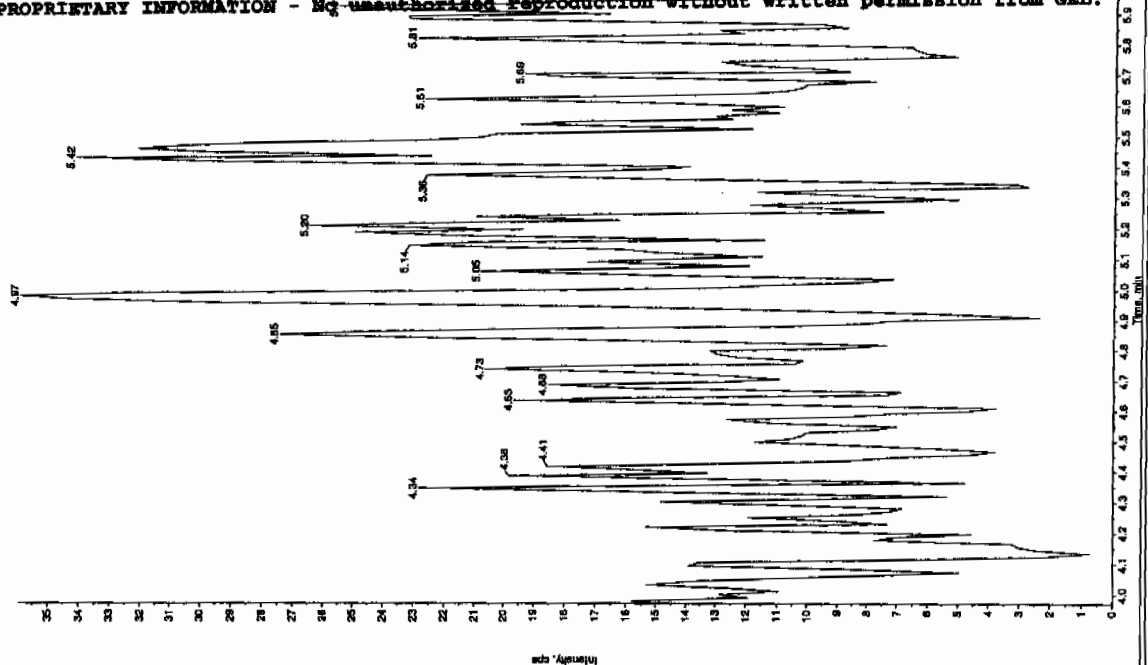
Sample Name: "X08UK12" Sample ID: "J1LER" File: "EX50220038.wif"
 Peak Name: "34-Dehydrocortone" Mass(es): "182.1/151.9 amu"
 Comment: "LCMS-EXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:52:18 PM
 Modified: No



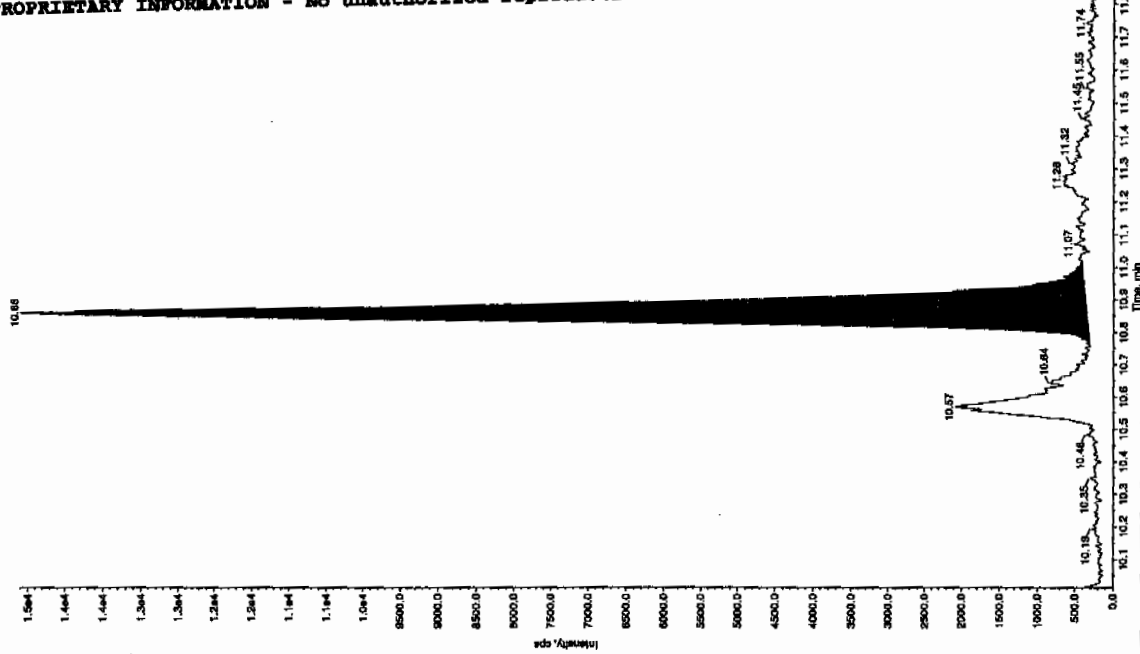
Sample Name: "X08UK12" Sample ID: "J1LER" File: "EX50220038.wif"
 Peak Name: "34-Dehydrocortone" Mass(es): "182.1/151.9 amu"
 Comment: "LCMS-EXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:52:18 PM
 Modified: No



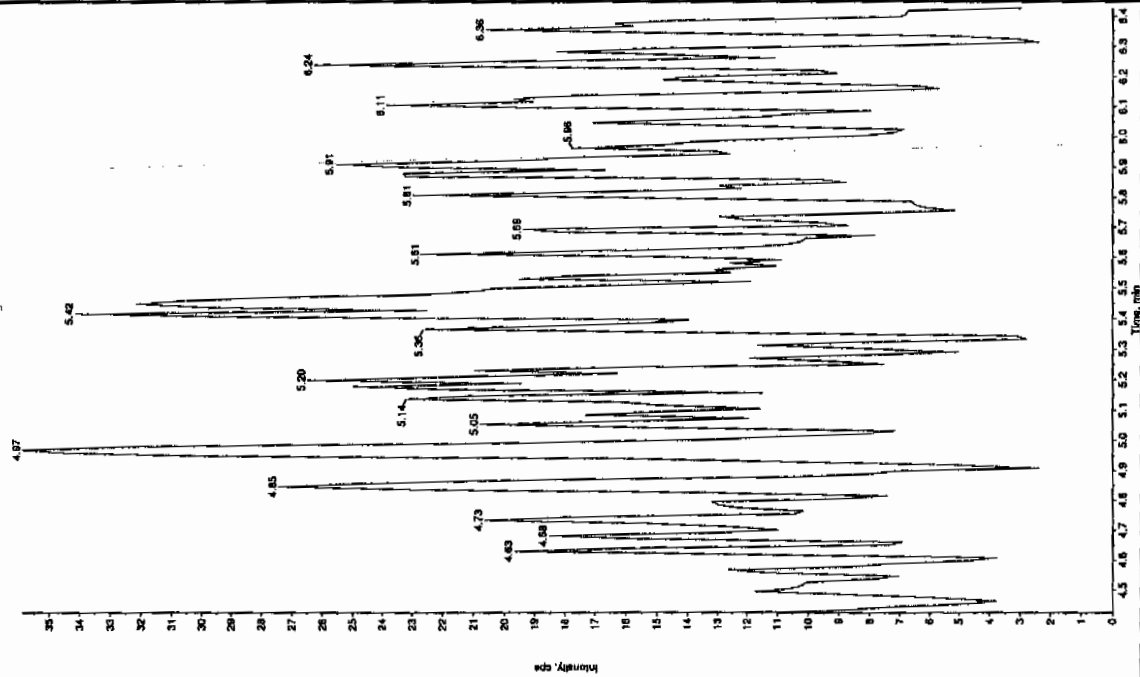
Sample Name: "XBLK12" Sample ID: "111ER" File: "EXS0220095.wif"
 Peak Name: "24-Diamino-6-nitrobenzoic acid" Mass(es): "589.1910 amu"
 Comment: "LCMS/EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 6.33 ug/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 3:52:18 PM
 Acq. Time: 3:52:18 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.54e+004 counts
 Height: 14351.47 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Name: "XBLK12" Sample ID: "111ER" File: "EXS0220095.wif"
 Peak Name: "24-Diamino-6-nitrobenzoic acid" Mass(es): "188.0460 amu"
 Comment: "LCMS/EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 3:52:18 PM
 Acq. Time: 3:52:18 PM
 Modified: No



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 23-MAR-10 18:29

GEL Data File: EXS03220105.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.86
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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Sample Name: XBELK13 Sample ID: 111ER File: EX03220105.wif

Peak Name: 111ER Chromatogram Method: 102.045.0 amu

Comment: LCMSXP_B Annotation:

Sample Index: 1

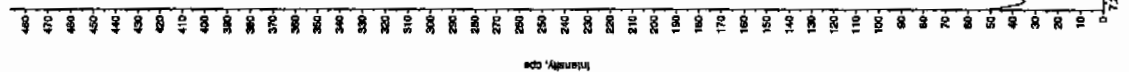
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 6:29:17 PM

Modified: No



Jan 3/27/10

Sample Name: XBELK13 Sample ID: 111ER File: EX03220105.wif

Peak Name: 111ER Chromatogram Method: 102.045.0 amu

Comment: LCMSXP_B Annotation:

Sample Index: 1

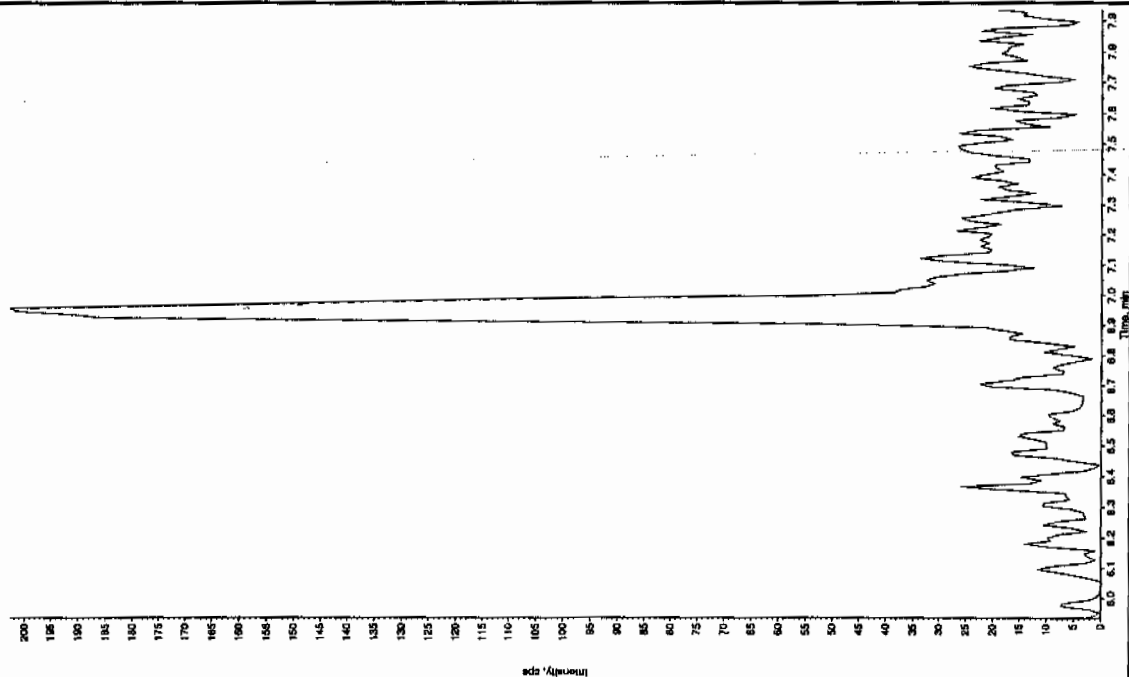
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 6:29:17 PM

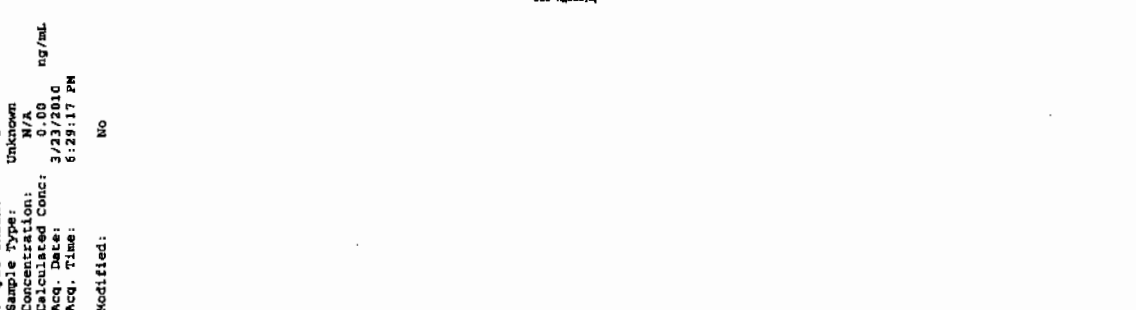
Modified: No



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

Sample Name: "XIBLK13" Sample ID: "TILLER" File: "EXS0320105.wif"
 Peak Name: "26-Diamino-4-nitrochlorane" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:29:17 PM
 Modified: No

Intensity, cps



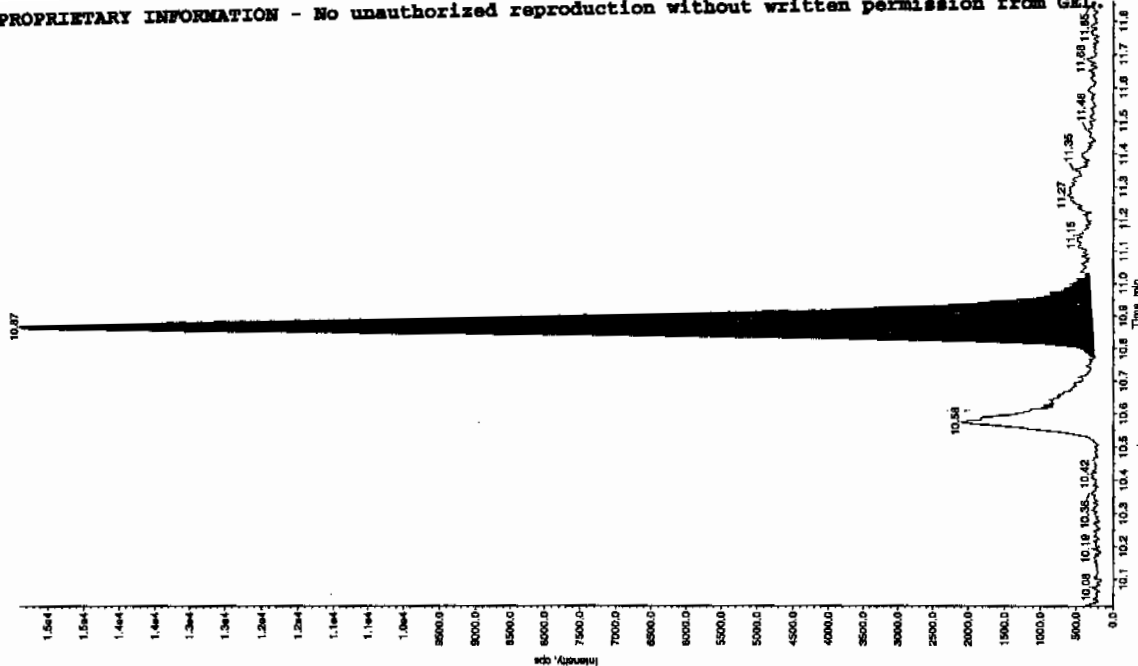
Sample Name: "XIBLK13" Sample ID: "TILLER" File: "EXS0320105.wif"
 Peak Name: "34-Dinitrochlorane" Mass(es): "182.1451.9 amu"
 Comment: "LCMSEXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:29:17 PM
 Modified: No

Intensity, cps



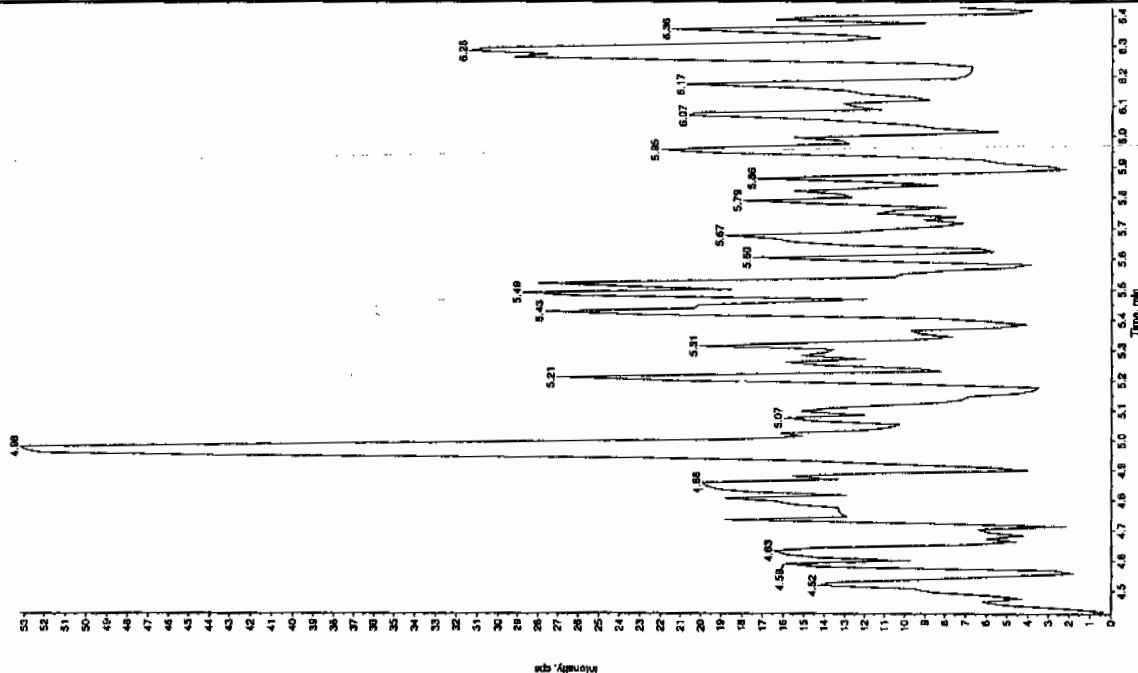
Sample Name: 'XIBLK13' Sample ID: 'TILLER' File: 'EXS03220105.wif'
 Peak Name: '24-Diamine-5-nitrotoluene' Mass(es): '166.046.0 amu'
 Comment: 'LCMSEXP_E' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 6.86 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:29:17 PM
 Modified: No
 Proc. Algorithm: InCellQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Search Width: 30.0 sec
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.24e+004 counts
 Height: 15118.072 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Name: 'XIBLK13' Sample ID: 'TILLER' File: 'EXS03220105.wif'
 Peak Name: '24-Diamine-5-nitrotoluene' Mass(es): '166.046.0 amu'
 Comment: 'LCMSEXP_E' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:29:17 PM
 Modified: No



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 23-MAR-10 21:53

GEL Data File: EXS03220118.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	6.64
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/27/10

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Sample Name: "XBLK14" Sample ID: "11LEP" File: "EXS03220118.wif"

Peak Name: "35-Chloroaniline" Mass(es): "182.0450 amu"

Comment: "LONSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 9:53:28 PM

Modified: No

Sample Name: "XBLK14" Sample ID: "11LEP" File: "EXS03220118.wif"

Peak Name: "TATB" Mass(es): "257.22049 amu"

Comment: "LONSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

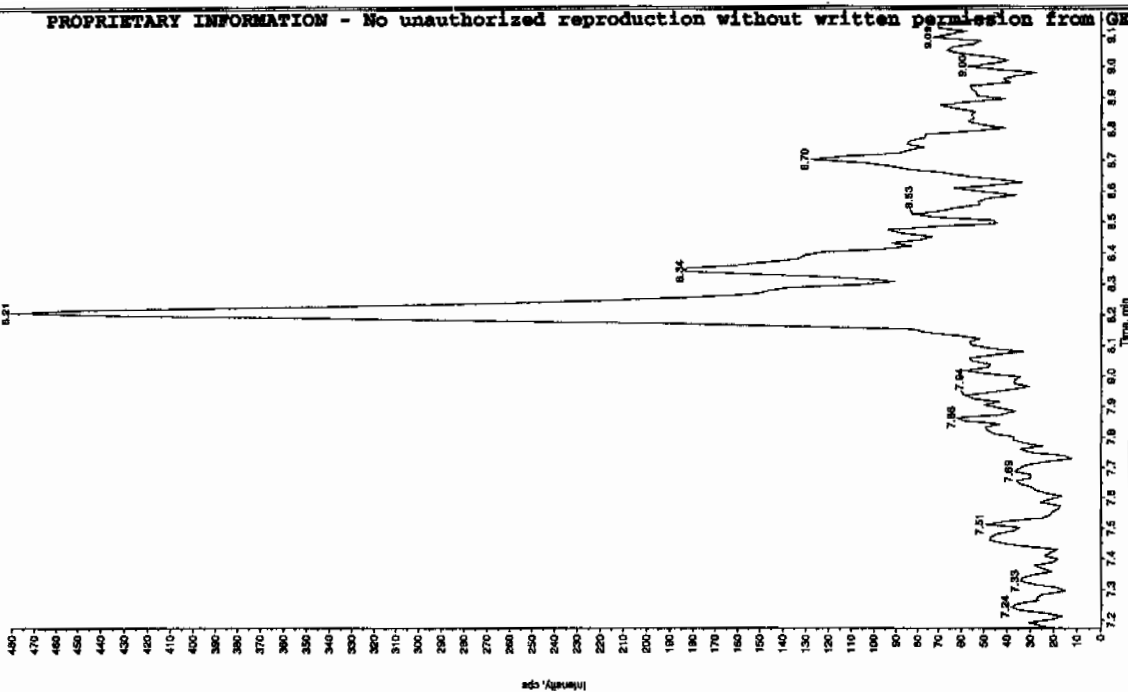
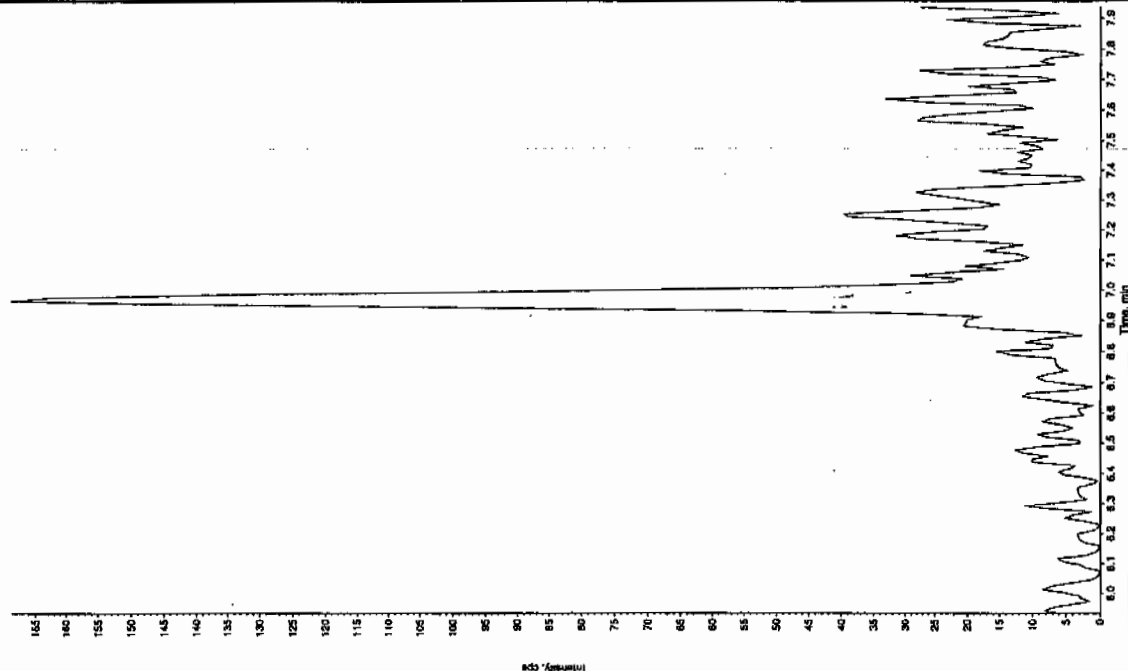
Concentration: 0.00 ng/mL

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 9:53:28 PM

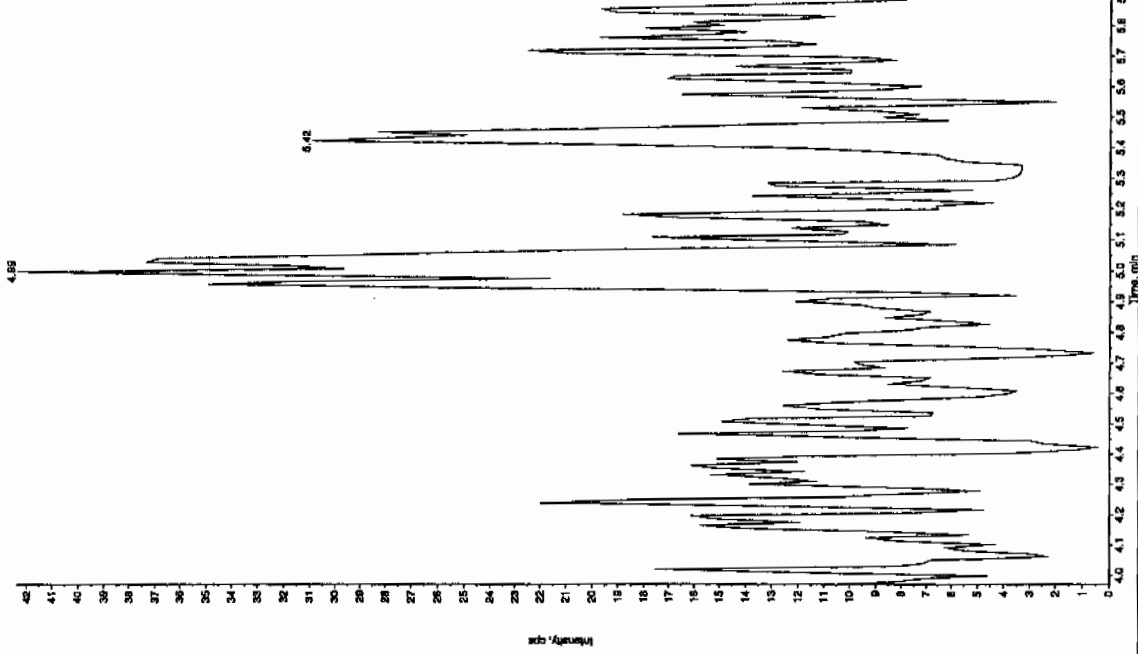
Modified: No



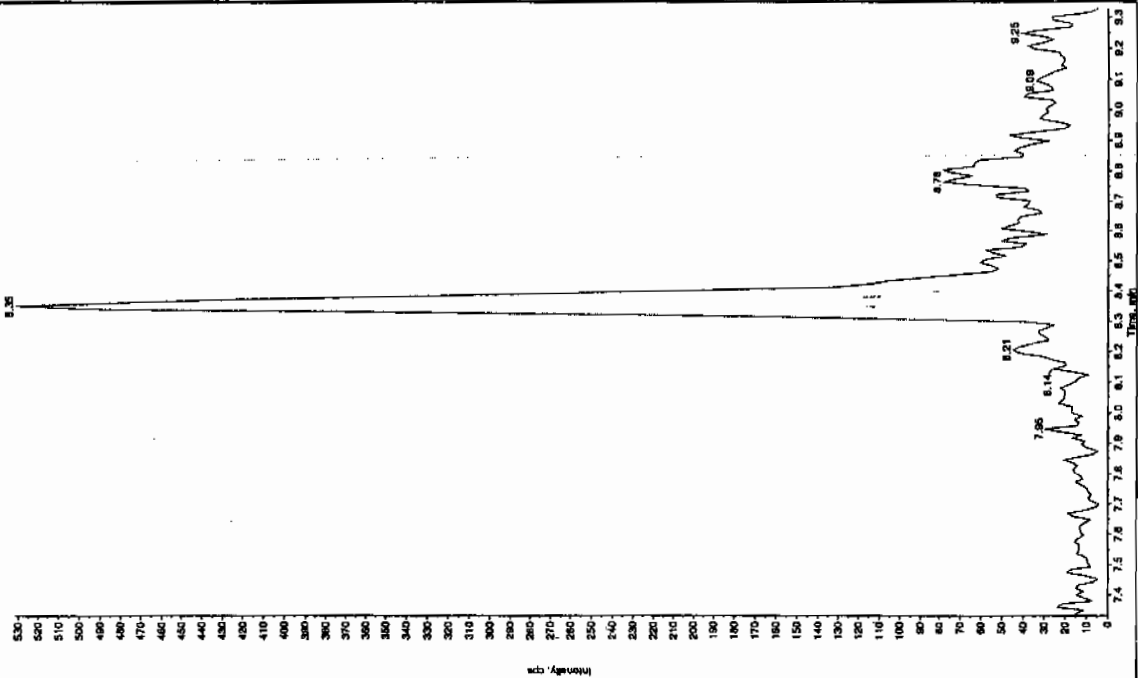
Jan 3/27/10

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

Sample Name: "XIBLK14" Sample ID: "11111" File: "EX503220118.wif"
 Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:53:28 PM
 Modified: No



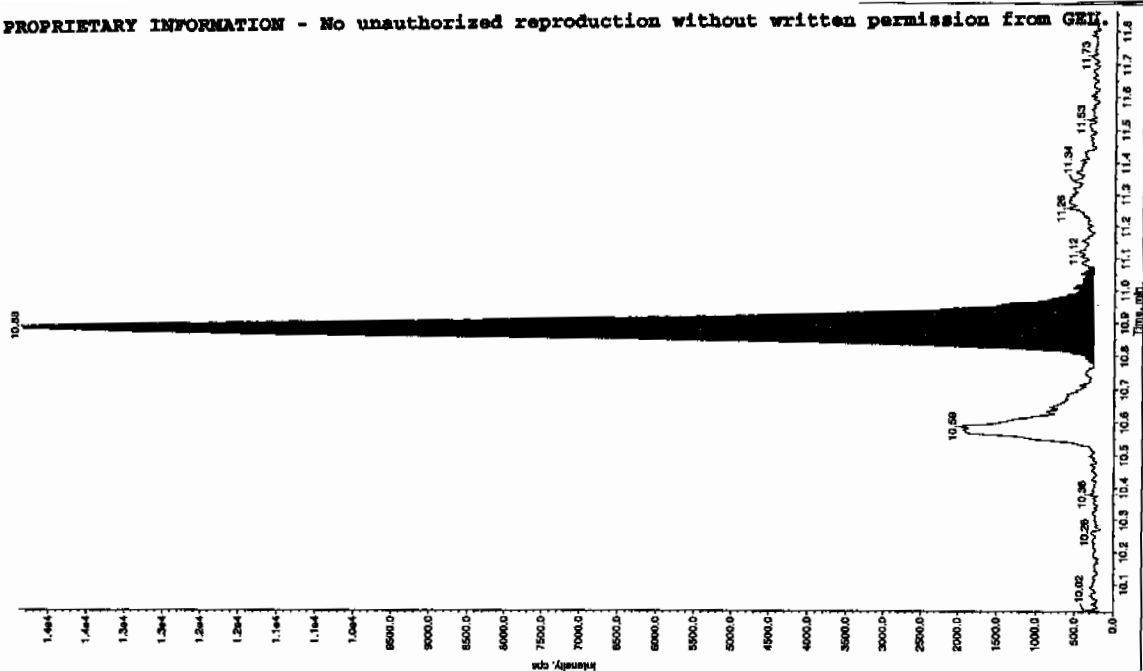
Sample Name: "XIBLK14" Sample ID: "11111" File: "EX503220118.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:53:28 PM
 Modified: No



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

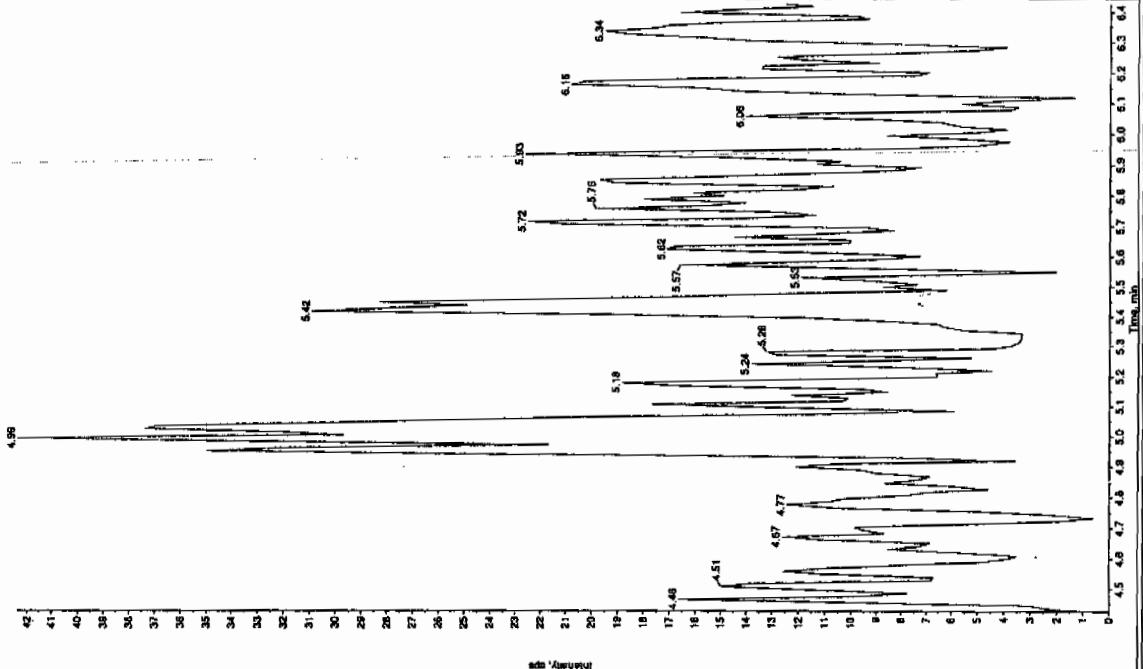
Sample Name: 'XIBLK14' Sample ID: 'JILER' File: 'EX503220116.wif'
 Peak Name: '16S-Diethyl phosphite' Mass(es): '359.1071.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 6.64 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:53:28 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - SOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 Ex. Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.95e+004 counts
 Height: 14131.658 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: 'XIBLK14' Sample ID: 'JILER' File: 'EX503220116.wif'
 Peak Name: '24-Diamino-6-nitrotoluene' Mass(es): '168.046.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:53:28 PM
 Modified: No



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 29-MAR-10 11:20

GEL Data File: EXS03290010.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	8.55
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 4/1/10

Sample Name: 'XBLK02' Sample ID: '111ER' File: 'EXS0320010.wif'

Peak Name: '257.224.9' Mass(es): '182.046.0 and'

Comment: 'LCMSXP_B' Annotation: '1'

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 3/29/2010

Acq. Date: 11:20:56 AM

Acq. Time: 300

Modified:

Sample Name: 'XBLK02' Sample ID: '111ER' File: 'EXS0320010.wif'

Peak Name: '257.224.9' Mass(es): '182.046.0 and'

Comment: 'LCMSXP_B' Annotation: '1'

Sample Index: 1

Sample Type: Unknown

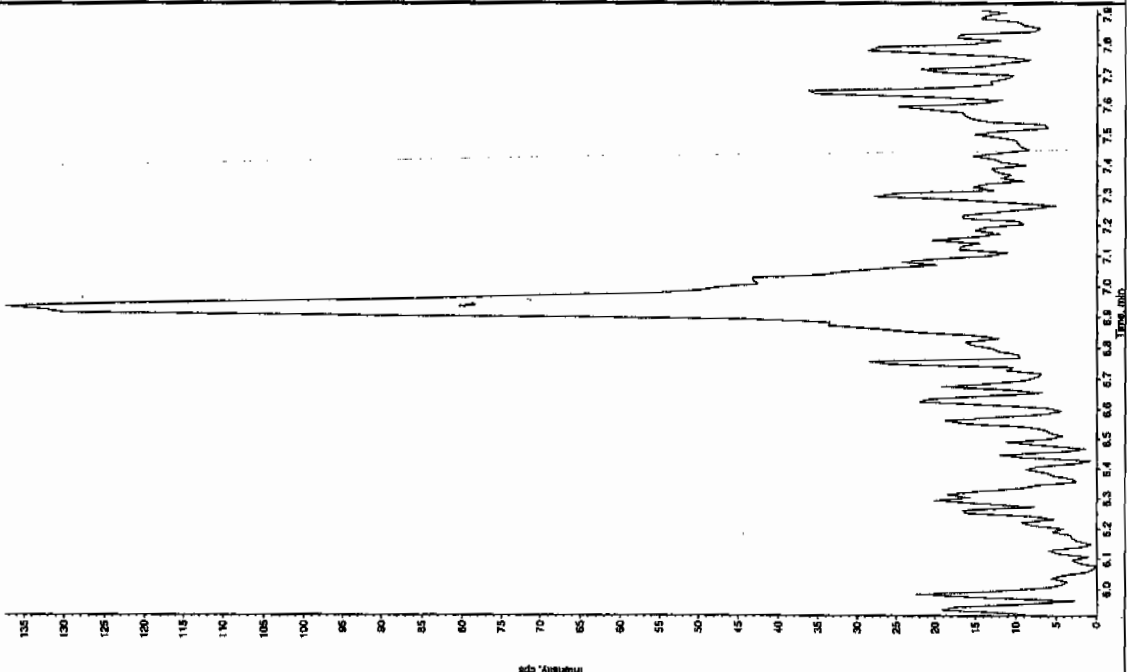
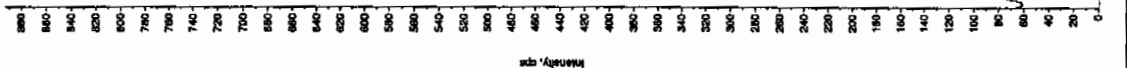
Concentration: 0.00 ng/mL

Calculated Conc: 3/29/2010

Acq. Date: 11:20:56 AM

Acq. Time: 300

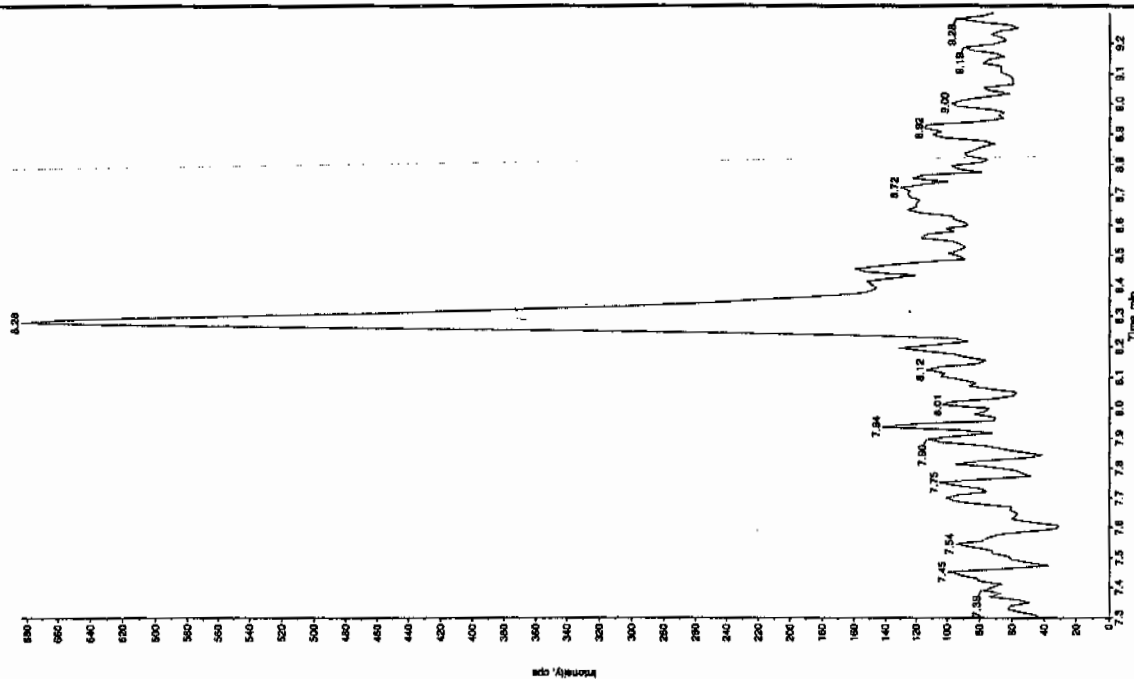
Modified:



Jan 04/01/10

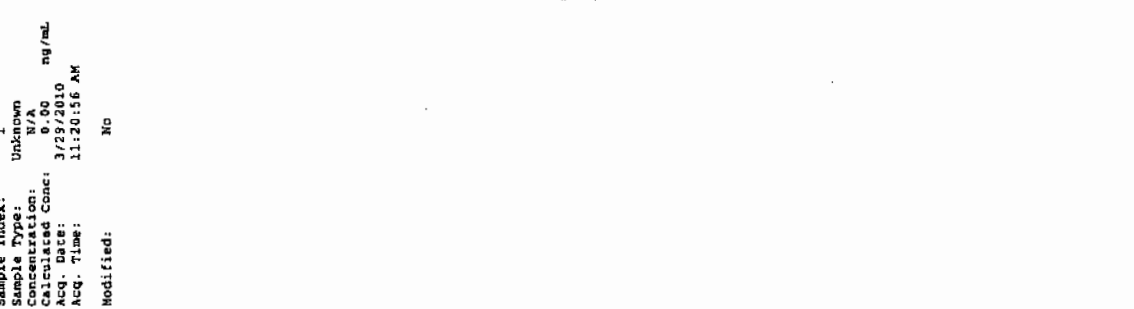
Sample Name: "XBLK02" Sample ID: "1111EP" File: "EXS0020010.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 and"
 Comment: "LCMS-EXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:20:56 AM
 Modified: No



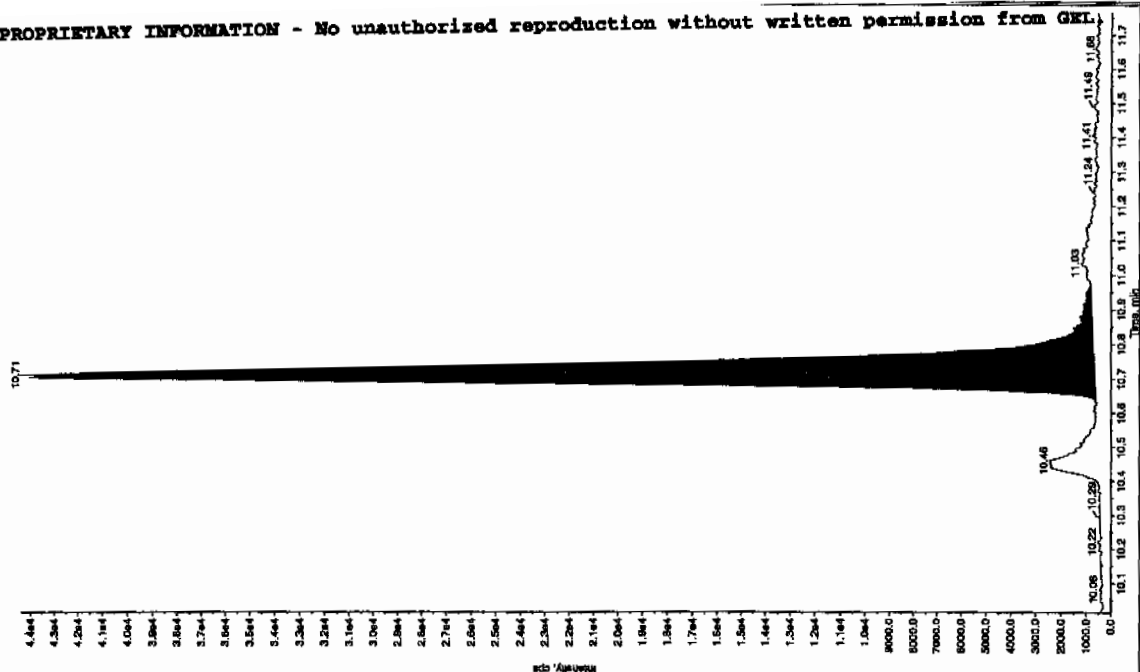
Sample Name: "XBLK02" Sample ID: "1111EP" File: "EXS0020010.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 and"
 Comment: "LCMS-EXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:20:56 AM
 Modified: No



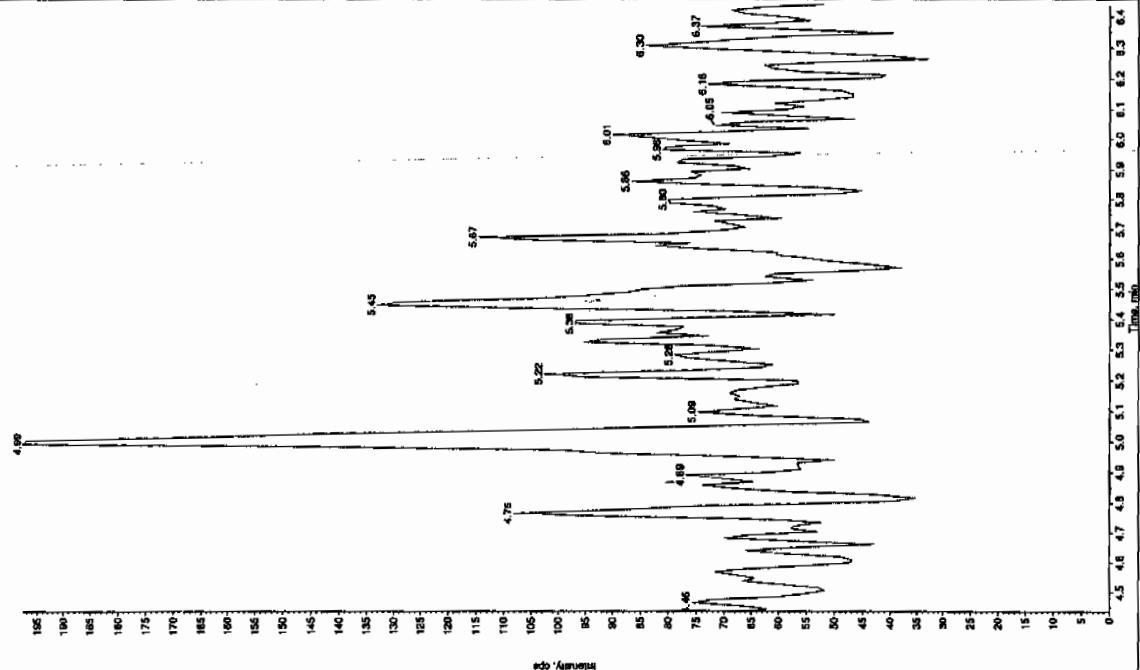
Sample Name: "XIBL022" Sample ID: "111ER" File: "EXS0220010.wif"
 Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "355.191.0 amu"
 Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 8.55 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:20:56 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 1.71e+005 counts
 Height: 43741.076 cps
 Start Time: 11.5 min
 End Time: 11.0 min



Sample Name: "XIBL022" Sample ID: "111ER" File: "EXS0220010.wif"
 Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "168.046.0 amu"
 Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 8.55 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:20:56 AM
 Modified: No



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 29-MAR-10 11:52

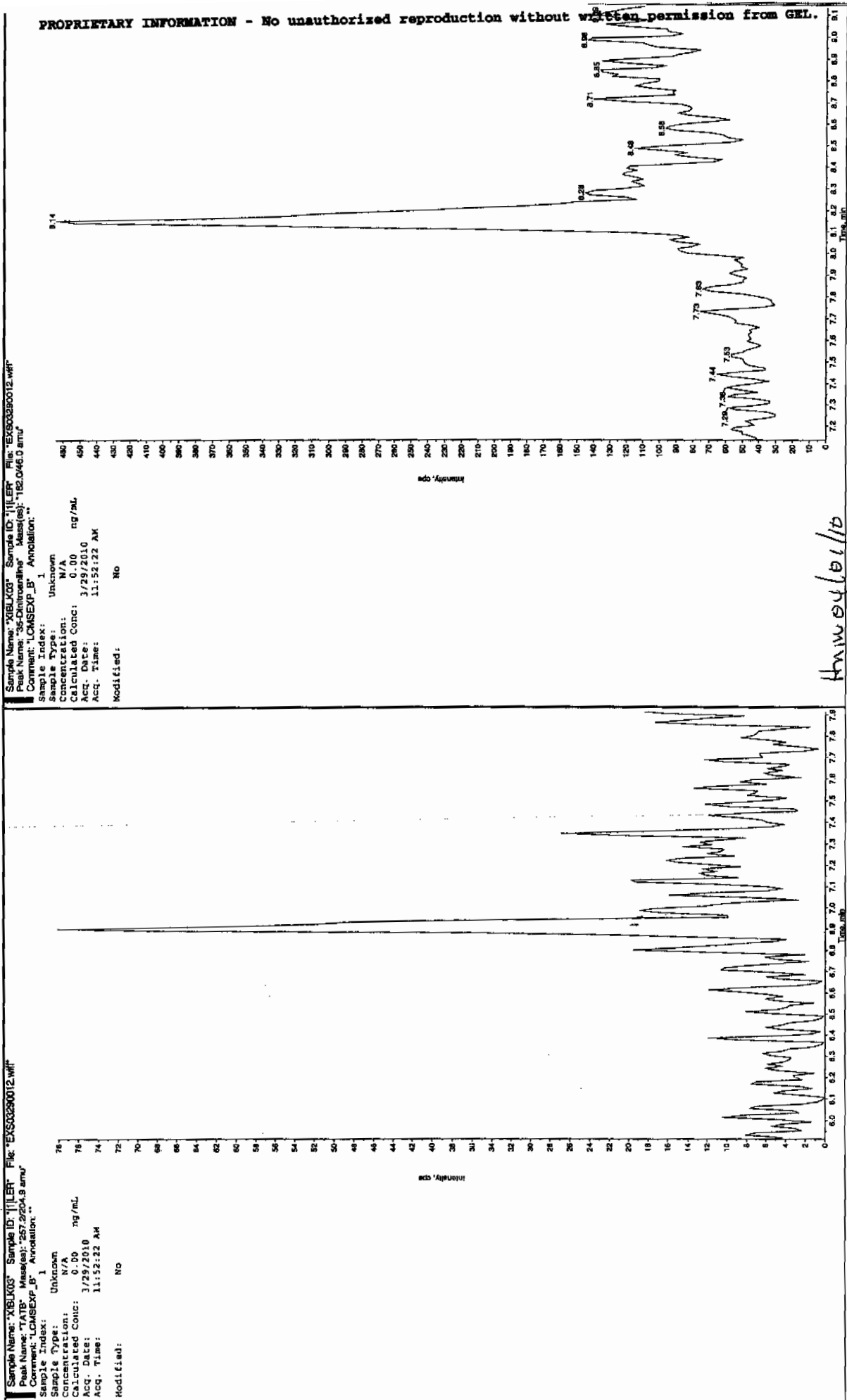
GEL Data File: EXS03290012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	4.6
TATB	0	0

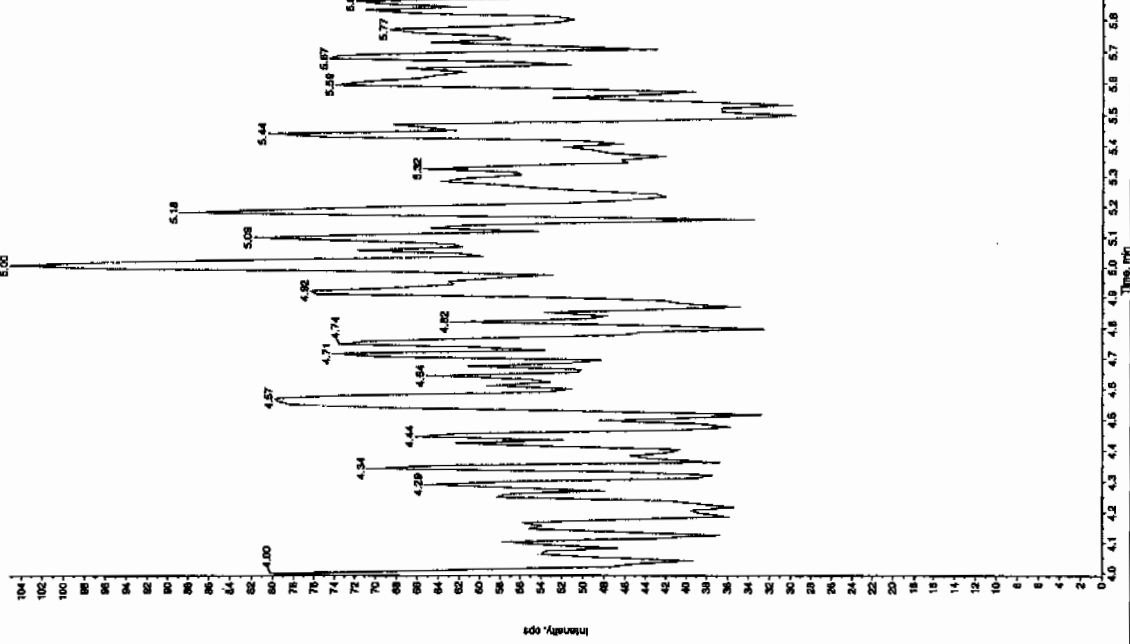
run 4/1/10



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

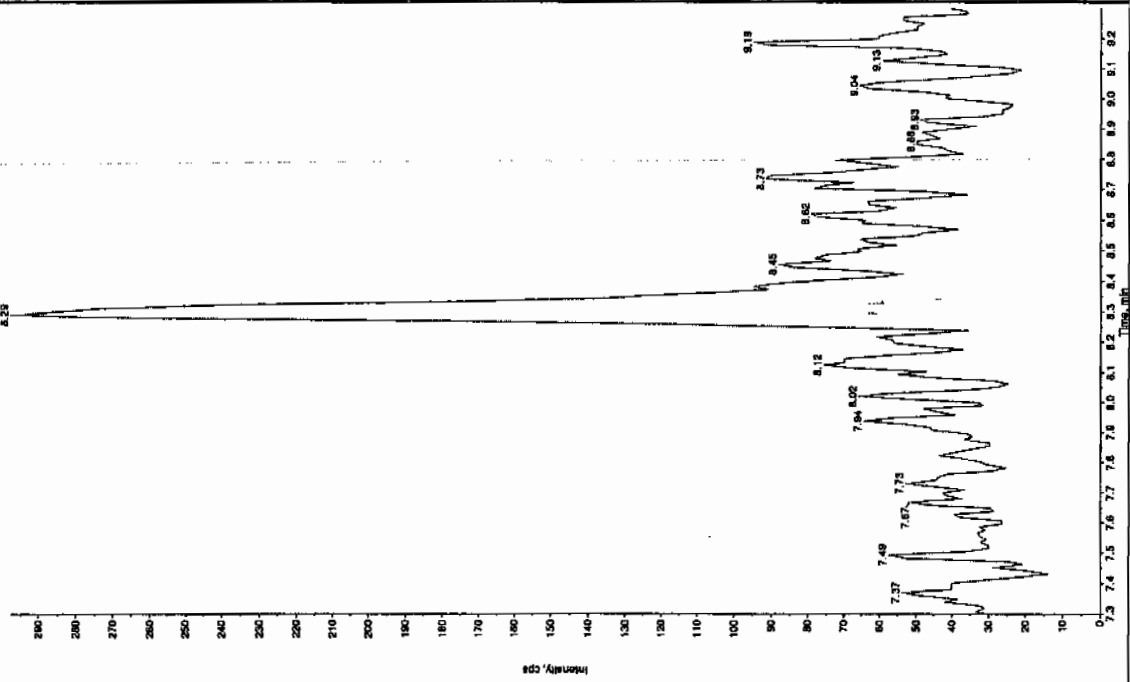
Sample Name: "XIBLK03" Sample ID: "11LER" File: "EXS03020012.wiff"
 Peak Name: "34-Dibutylamine" Mass(es): "165.096.0 amu"
 Comment: "CONSERP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:52:22 AM
 Modified: No



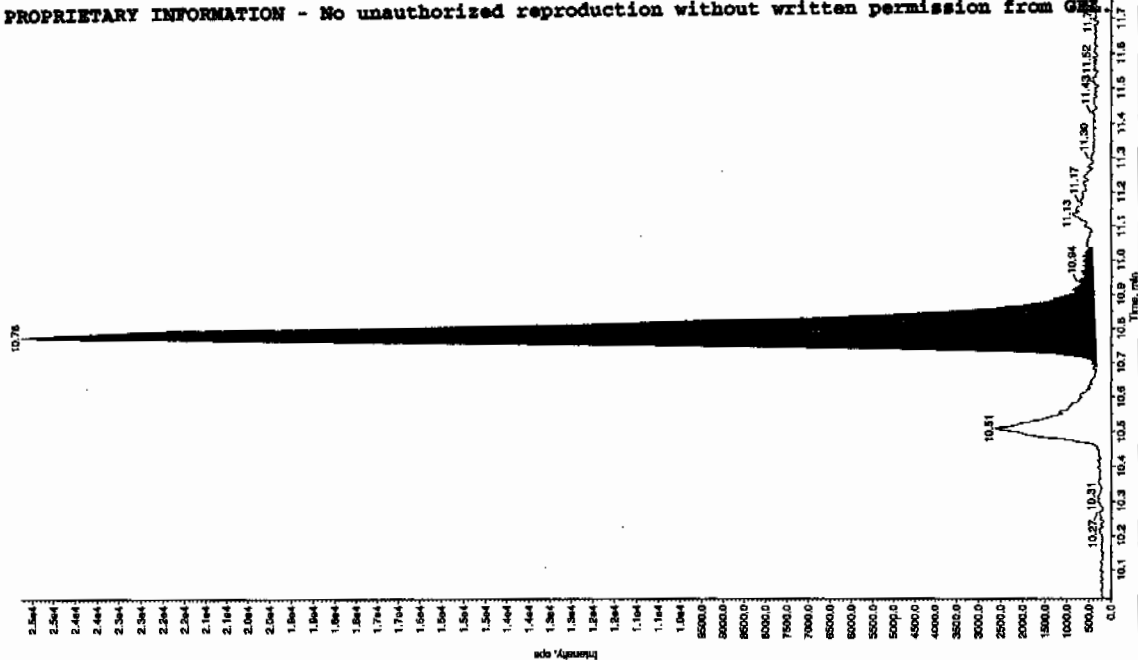
Sample Name: "XIBLK03" Sample ID: "11LER" File: "EXS03020012.wiff"
 Peak Name: "34-Dibutylamine" Mass(es): "165.096.0 amu"
 Comment: "CONSERP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:52:22 AM
 Modified: No



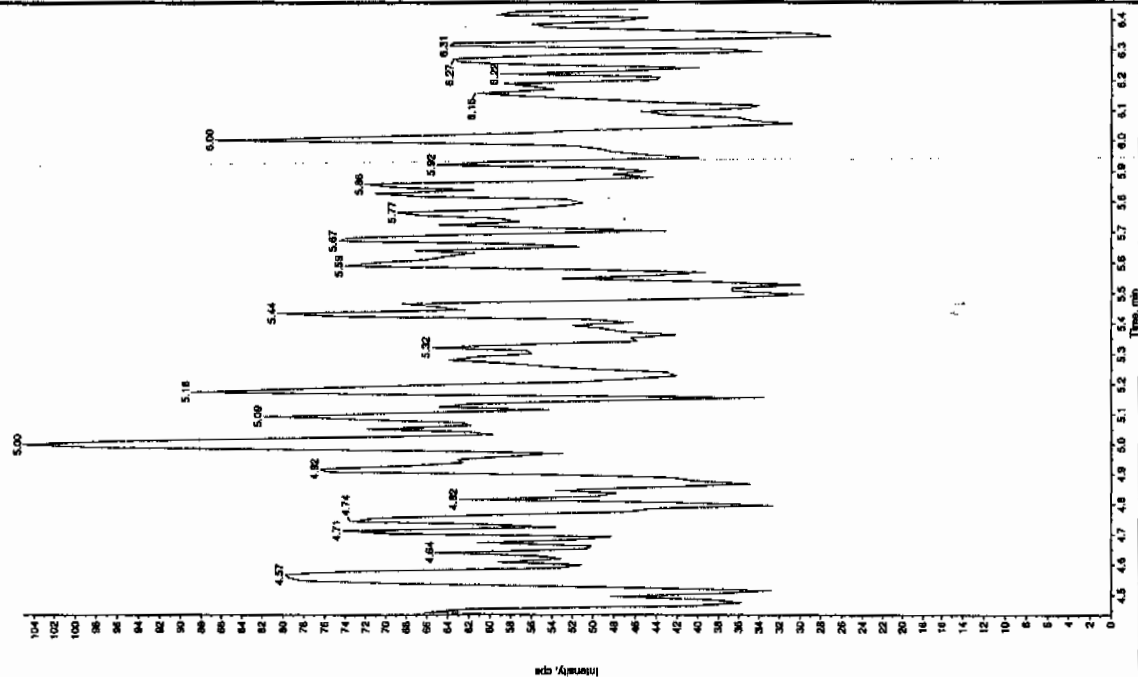
Sample Name: 'XBLK03' Sample ID: '111ER' File: 'EXS0329012.wif'
 Peak Name: 'Tria-cresyl phosphate' Mass(es): '358.1791.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 4.60 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:52:22 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.5 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.04e+005 counts
 Height: 24932.980 cps
 Start Time: 10.7 min
 End Time: 11.0 min



Sample Name: 'XBLK03' Sample ID: '111ER' File: 'EXS0329012.wif'
 Peak Name: 'Tria-cresyl phosphate' Mass(es): '358.1791.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 11:52:22 AM
 Modified: No



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

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2012

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 29-MAR-10 13:26

GEL Data File: EXS03290018.wiff

Instrument ID: LCMSMS

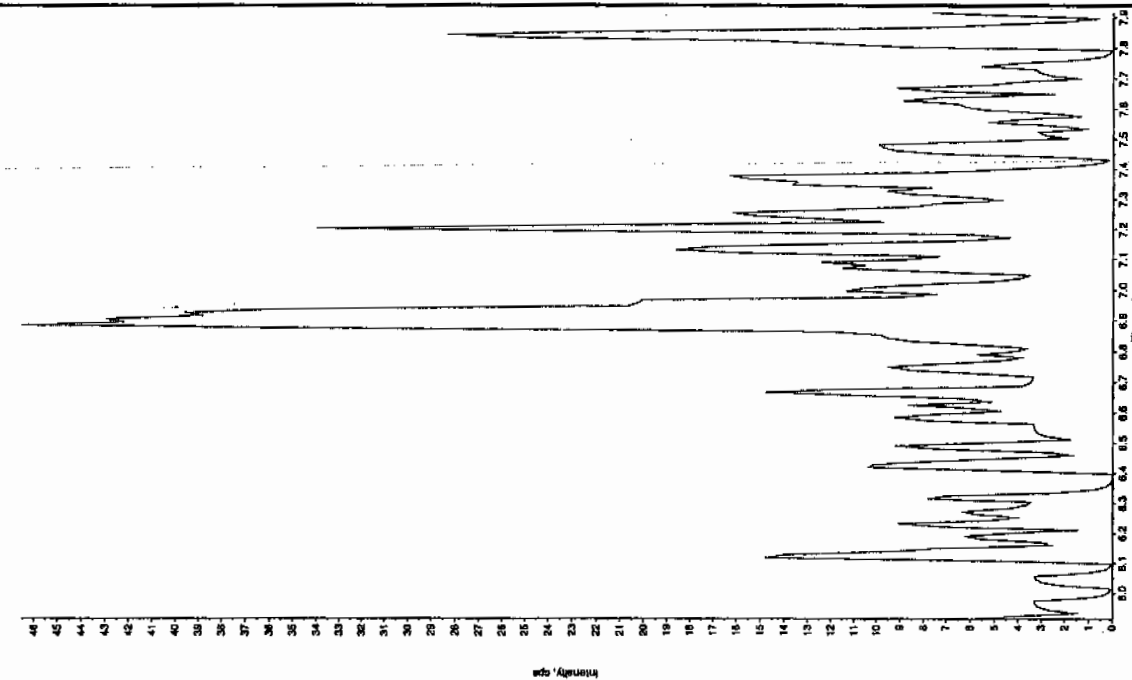
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.32
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 4/11/10

Sample Name: "YIELK04" Sample ID: "YIELK04" File: "EX03290018.wif"
 Peak Name: "YIELK04" Mass(es): 152.046.0 amu
 Concent: "LCMSXP_B" Annotation: "1"

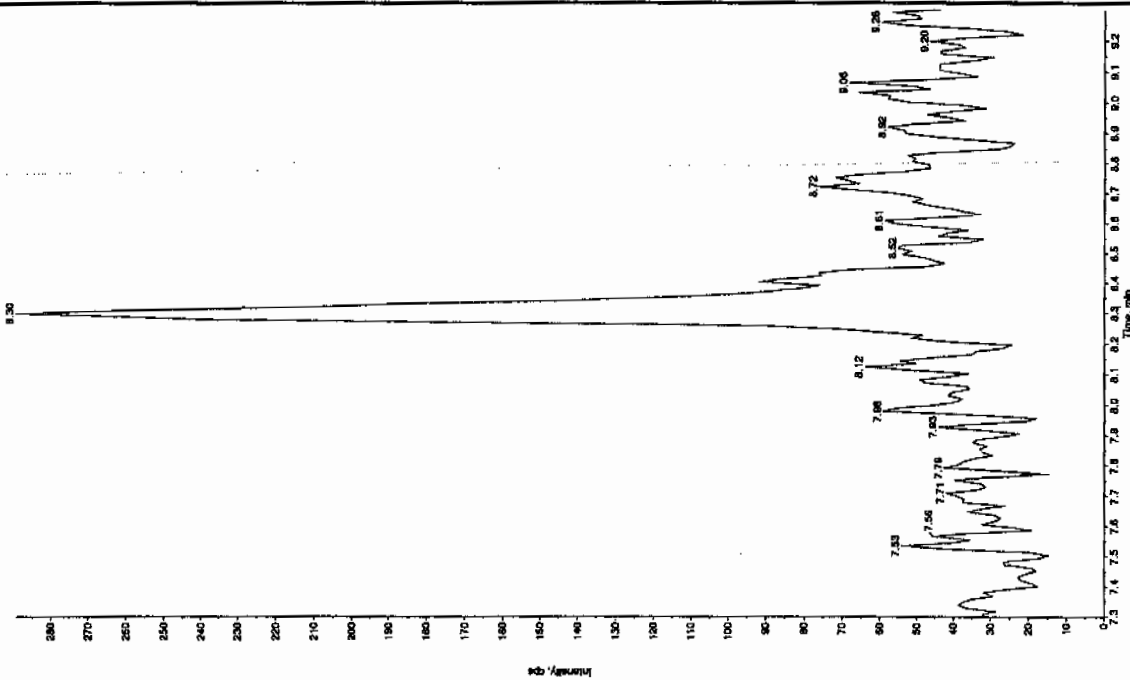
Sample Index: Unknown
 Sample Type: N/A
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/29/2010
 Acq. Date: 1:26:34 PM
 Acq. Time: No
 Modified:



Sample Name: "XIBLX04" Sample ID: "111ER" File: "EXS0250018.wif"
 Peak Name: "24-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

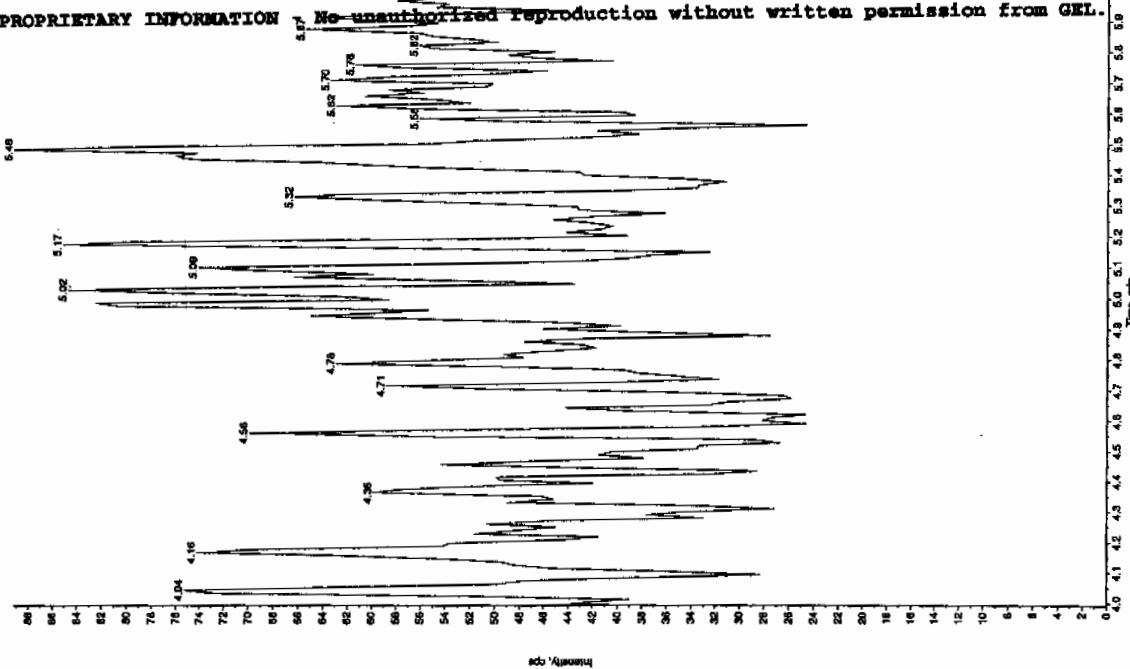
Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.0010
 Acq. Date: 3/23/2010
 Acq. Time: 1:25:34 PM
 Modified: No



Sample Name: "XIBLX04" Sample ID: "111ER" File: "EXS0250018.wif"
 Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "186.0/146.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

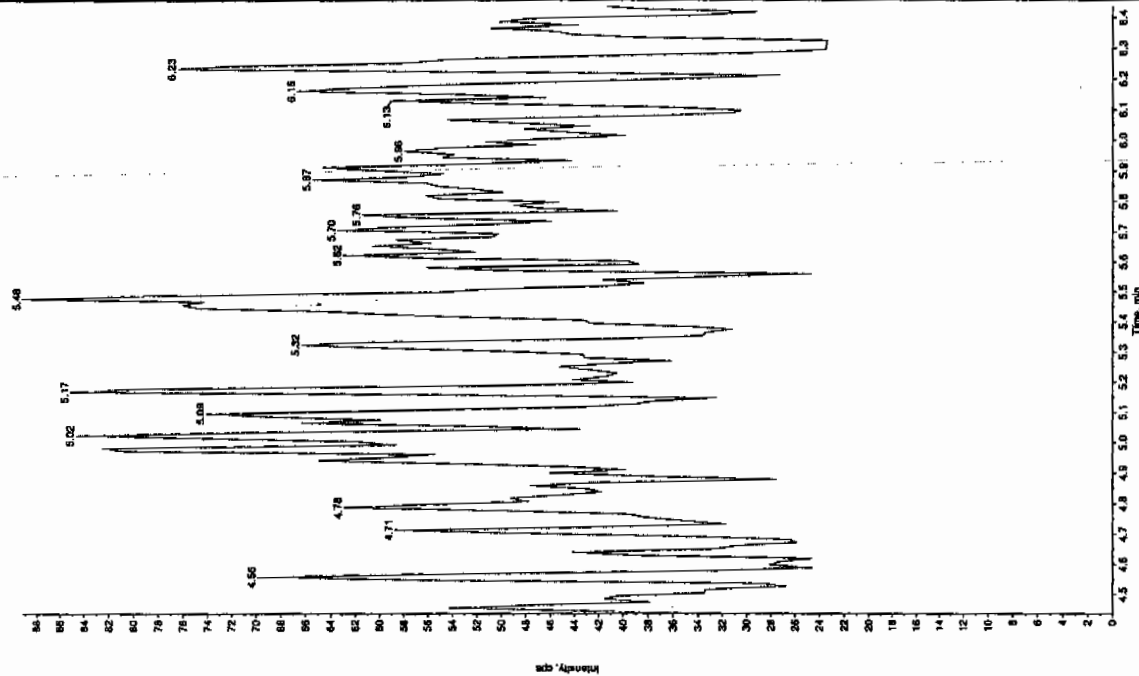
Sample Index: 1

Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/23/2010
 Acq. Time: 1:25:34 PM
 Modified: No



Sample Name: "XBLK04" Sample ID: "111LRT" File: "EX03290018.wif"
 Peak Name: "24-Diamino-6-ethylphenol" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.32 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 1:26:34 PM
 Modified: No
 Proc. Algorithm: InCellQuan - IOA
 Min. Peak Height: 8000.0 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 8.00e+004 counts
 Height: 19025.679 cps
 Start Time: 10.7 min
 End Time: 11.0 min



Sample Name: "XBLK04" Sample ID: "111LRT" File: "EX03290018.wif"
 Peak Name: "24-Diamino-6-ethylphenol" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 1:26:34 PM
 Modified: No

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

Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H2O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
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; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

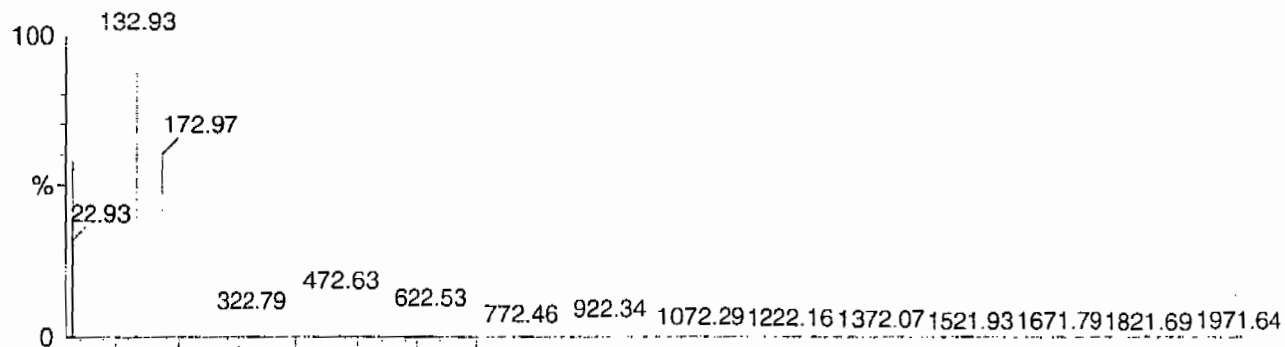
Calibration Report - MS1 Static

Page 1 of 1

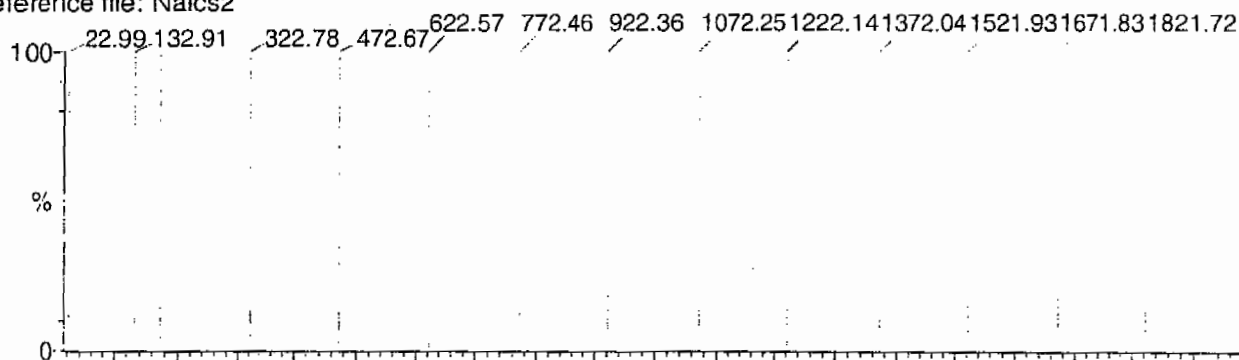
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

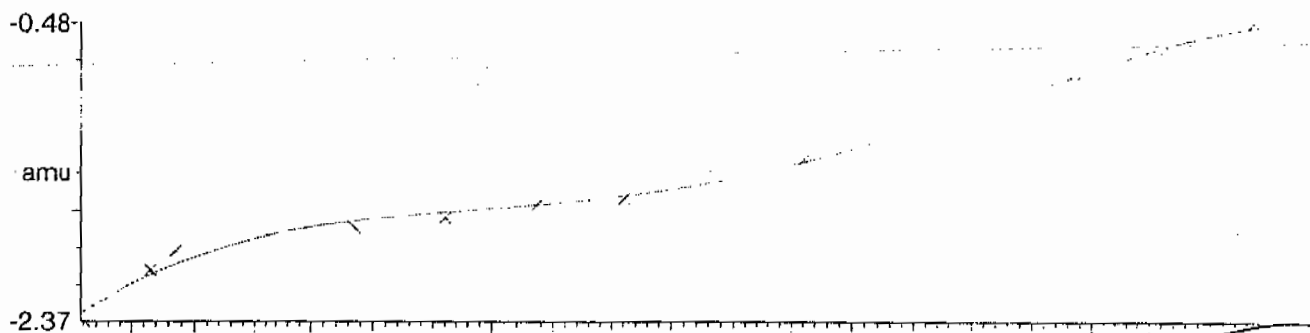
15 matches of 15 tested references



Reference file: Naics2

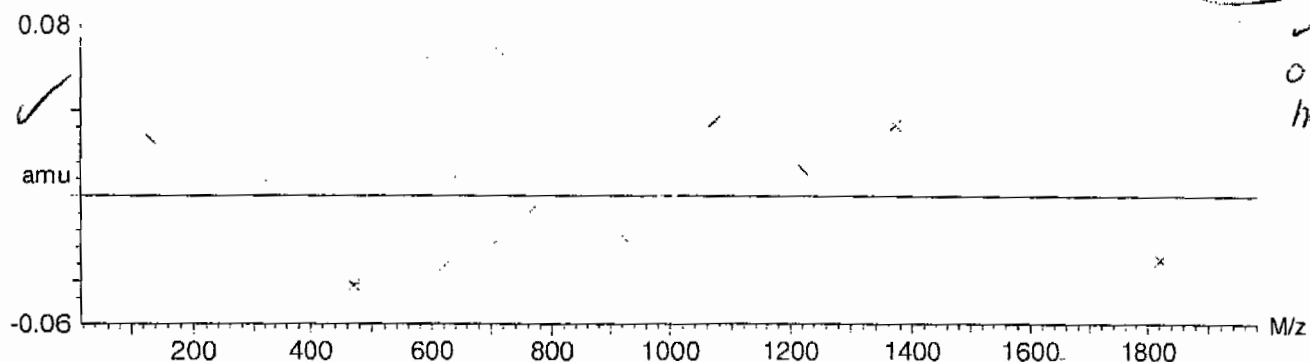


Mass difference (Raw - Ref mass)



Residuals

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



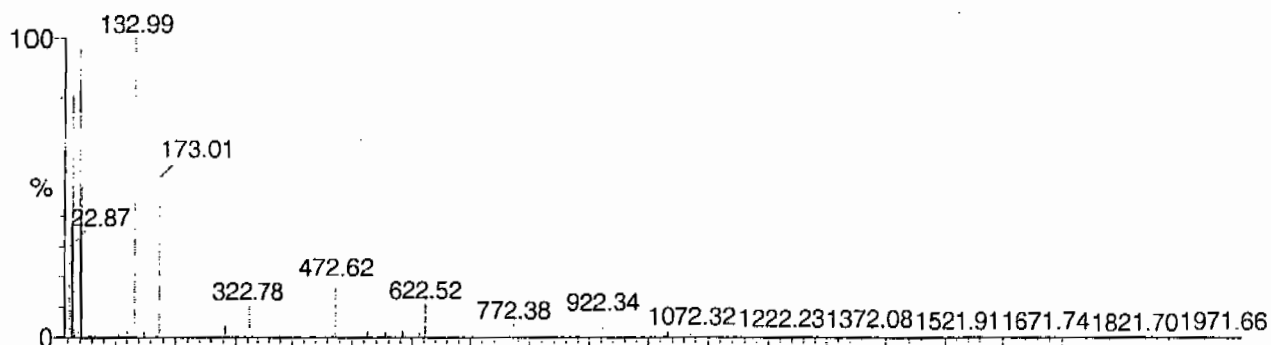
Calibration Report - MS1 Scanning

Page 1 of 1

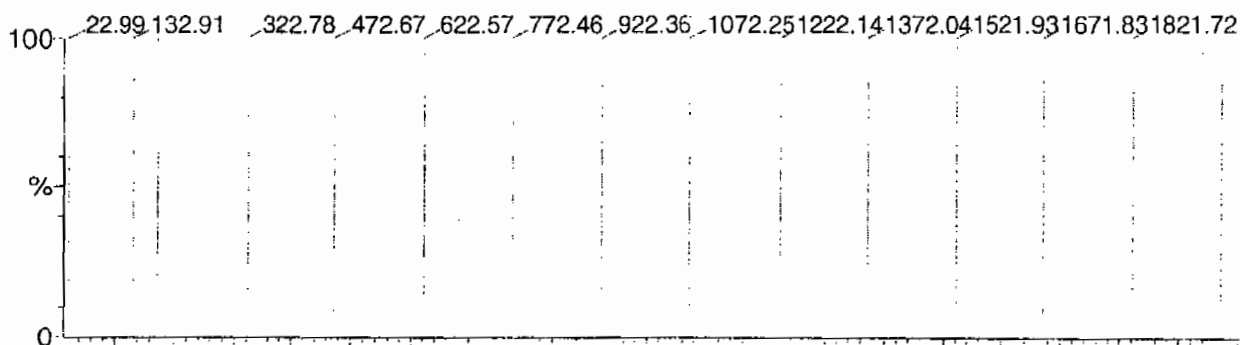
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

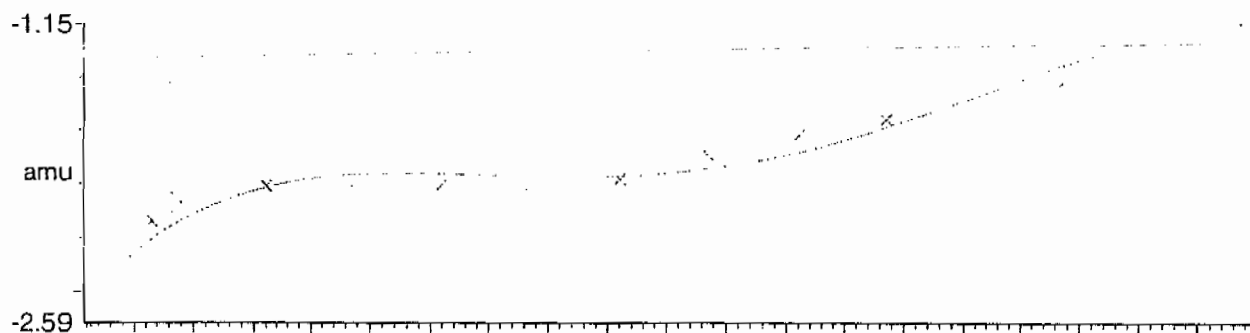
15 matches of 15 tested references



Reference file: Naics2



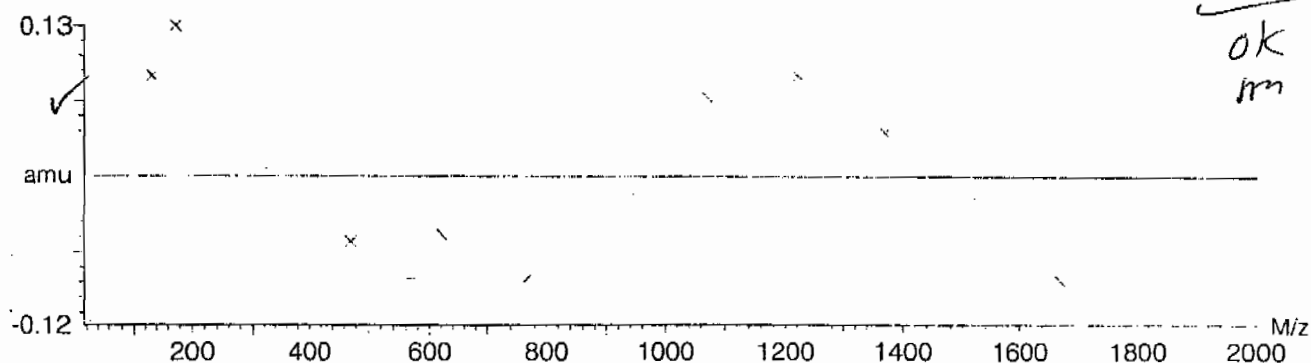
Mass difference (Raw - Ref mass)



Residuals

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

ok
m



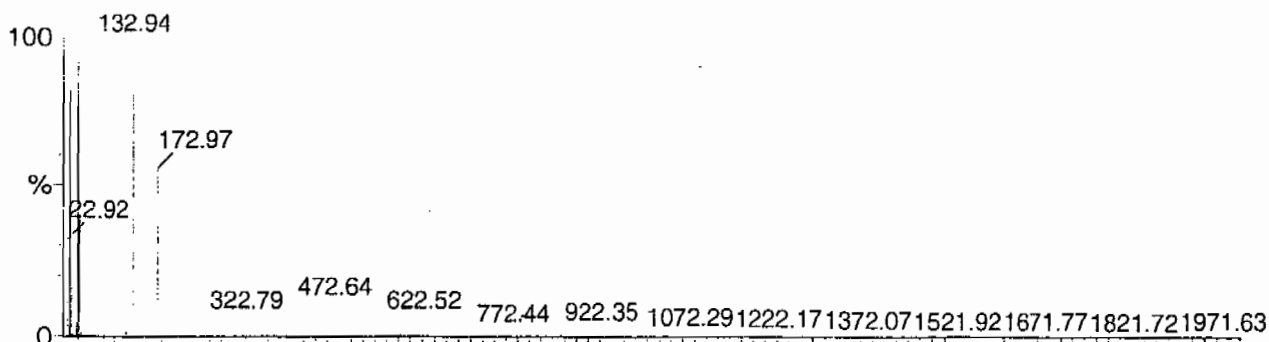
Calibration Report - MS1 Scan Speed Compensation

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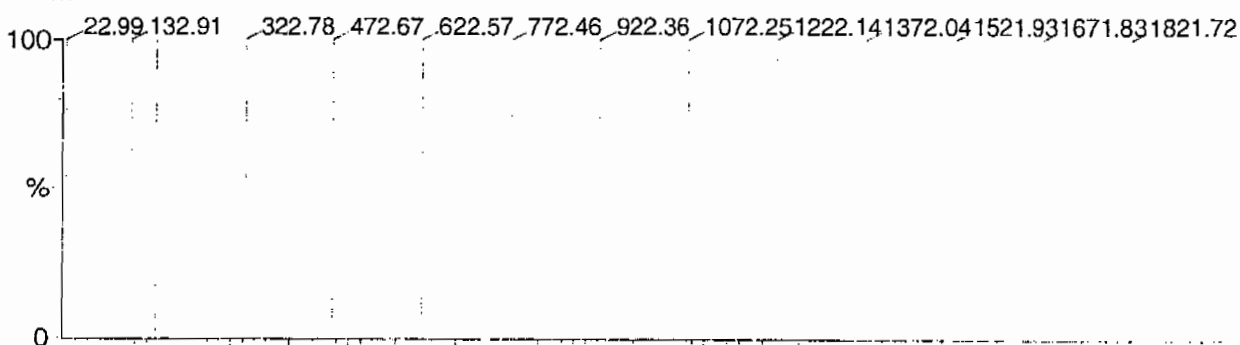
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

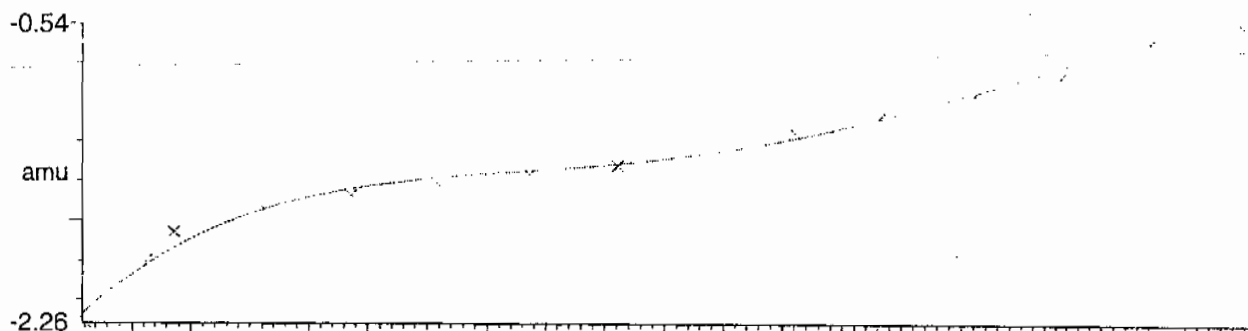
15 matches of 15 tested references



Reference file: Naics2

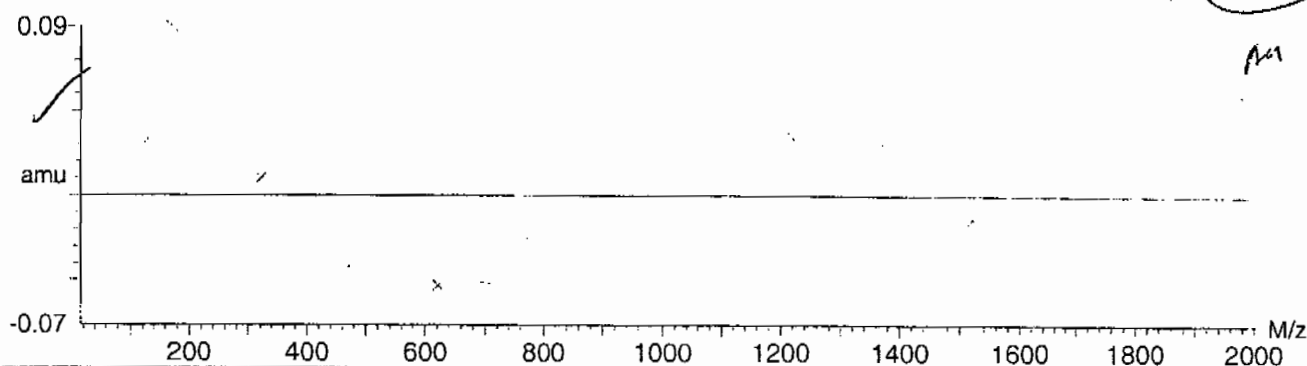


Mass difference (Raw - Ref mass)



Residuals

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



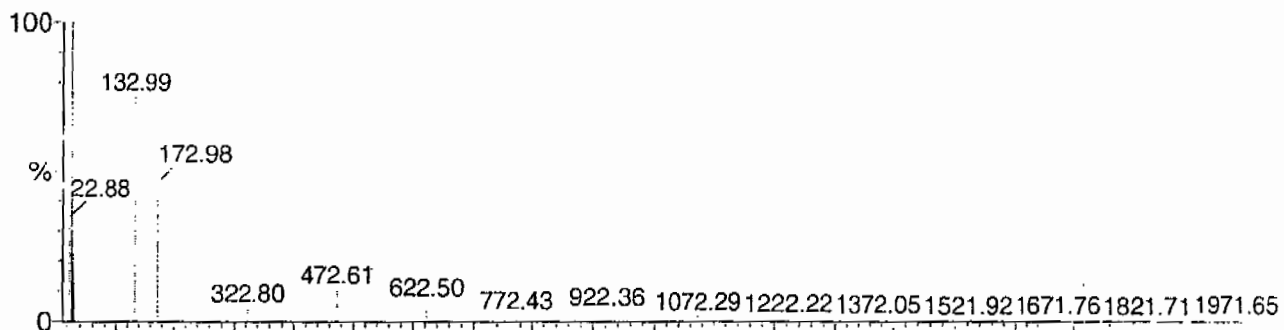
Calibration Report - MS2 Static

Page 1 of 1

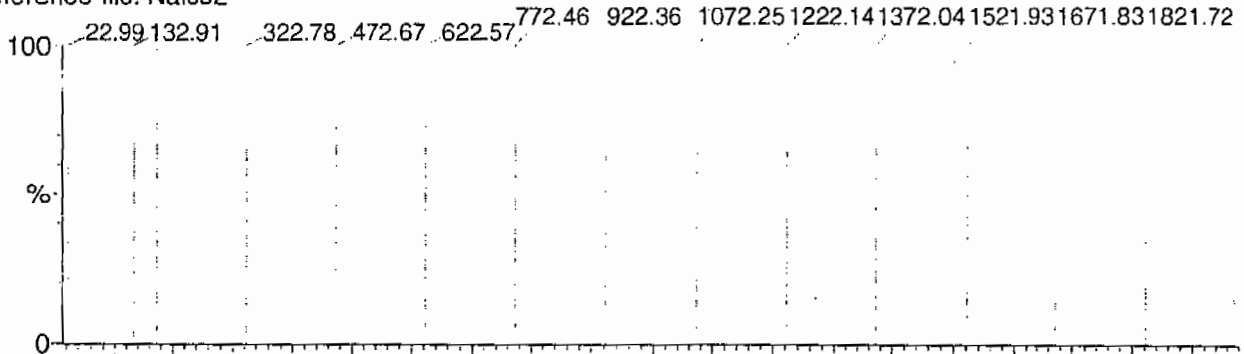
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

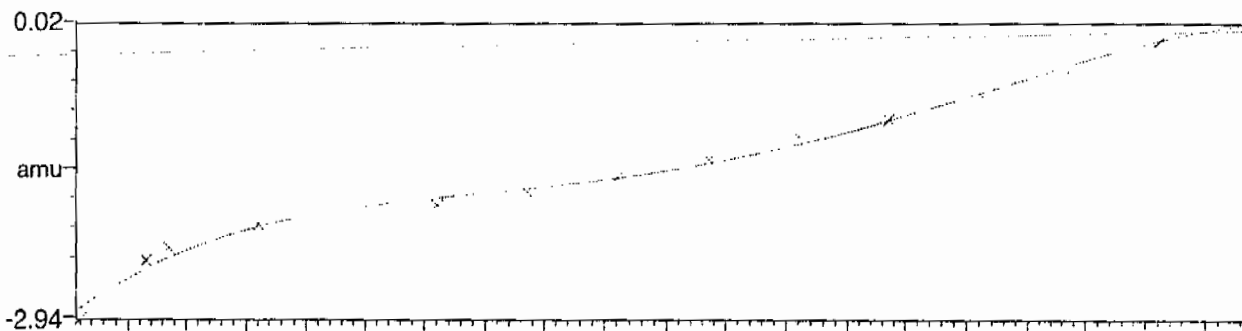
15 matches of 15 tested references.



Reference file: Naics2

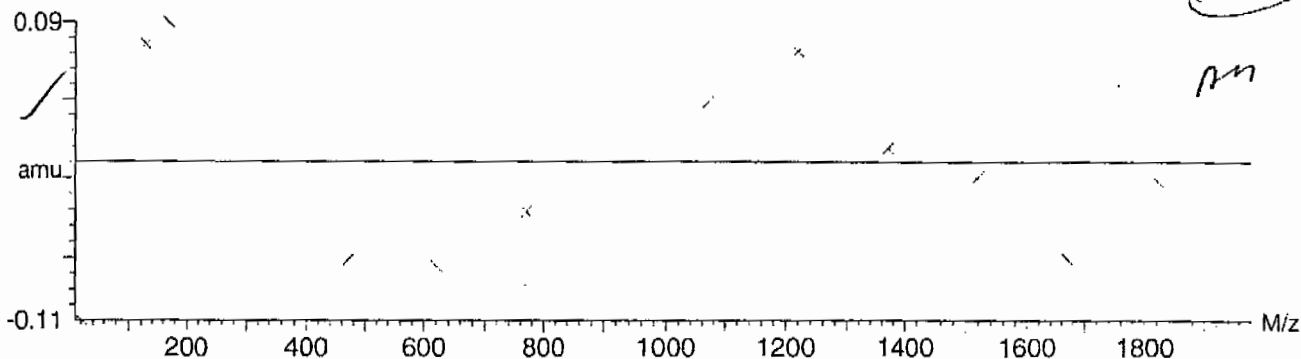


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910e-9 \pm 0.057803$



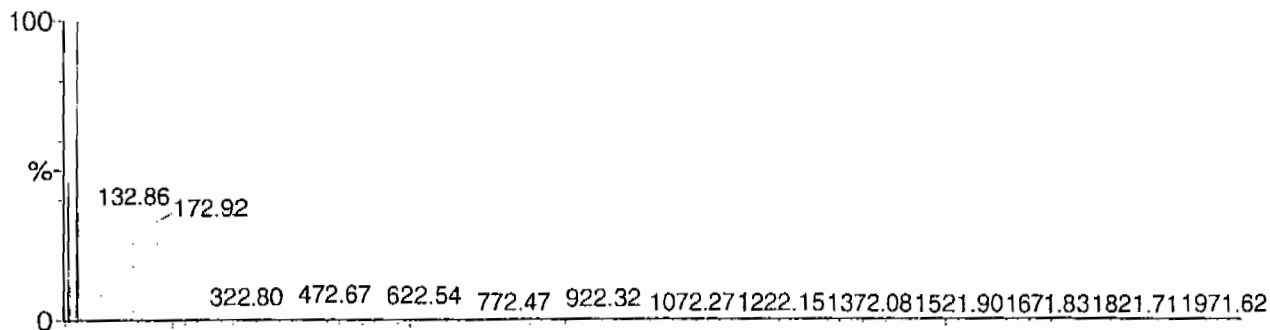
Calibration Report - MS2 Scanning

Page 1 of 1

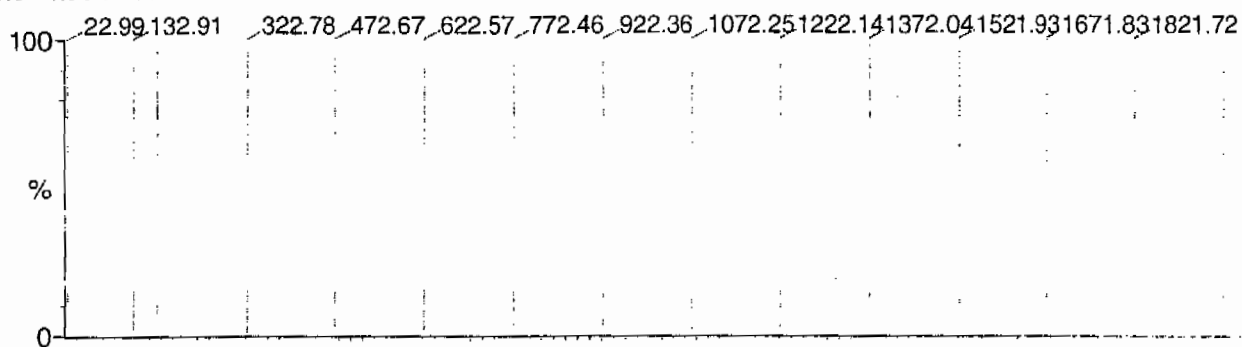
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

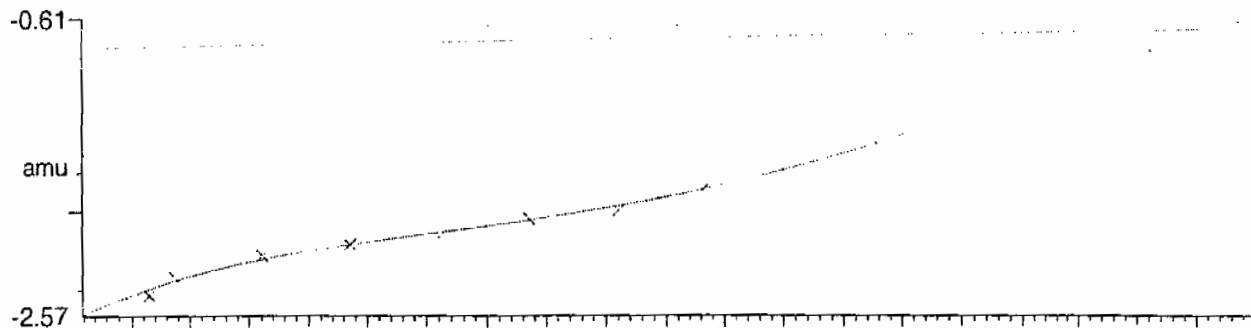
14 matches of 15 tested references



Reference file: Naics2

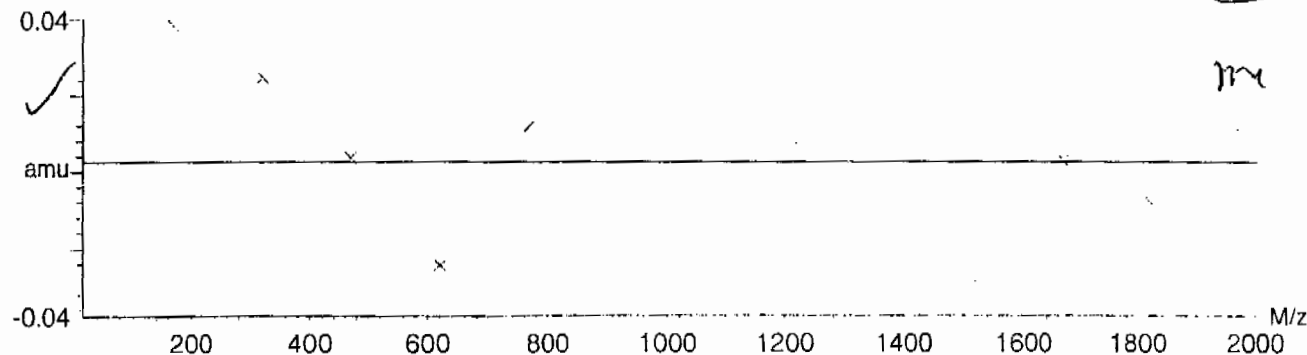


Mass difference (Raw - Ref mass)



Residuals

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



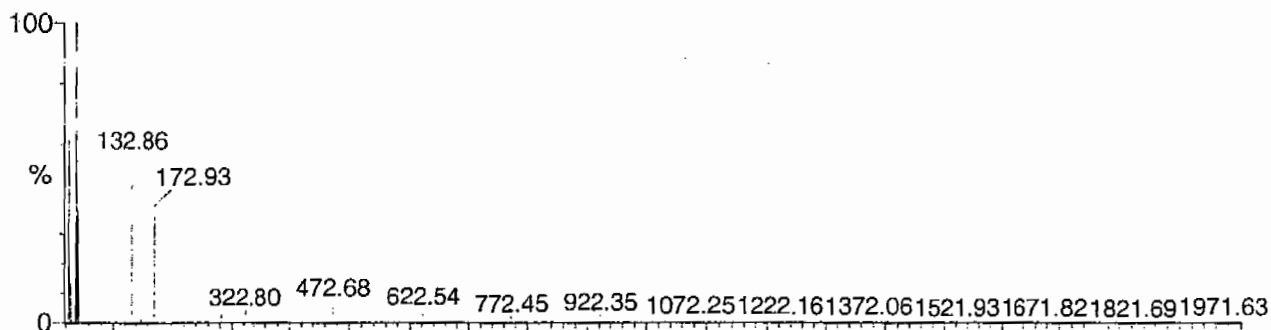
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

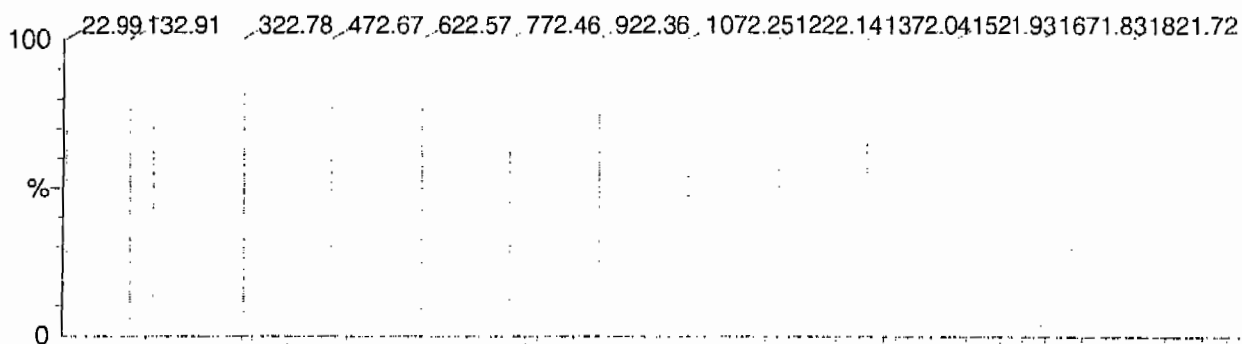
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

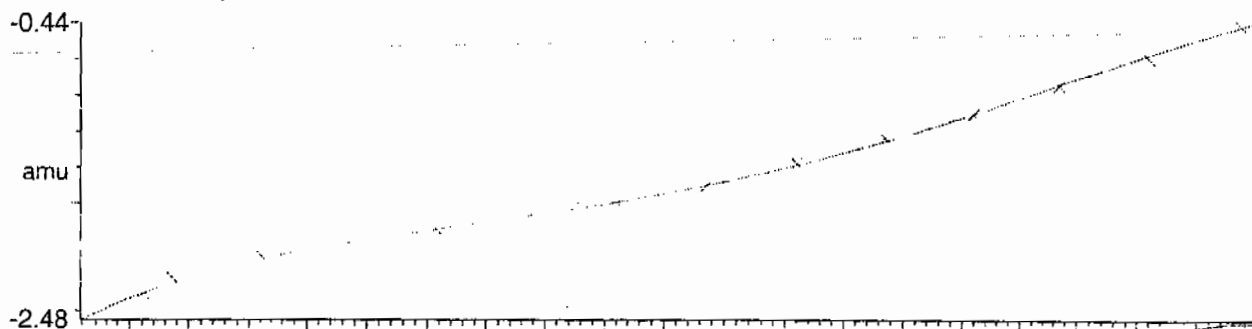
14 matches of 15 tested references



Reference file: Naics2

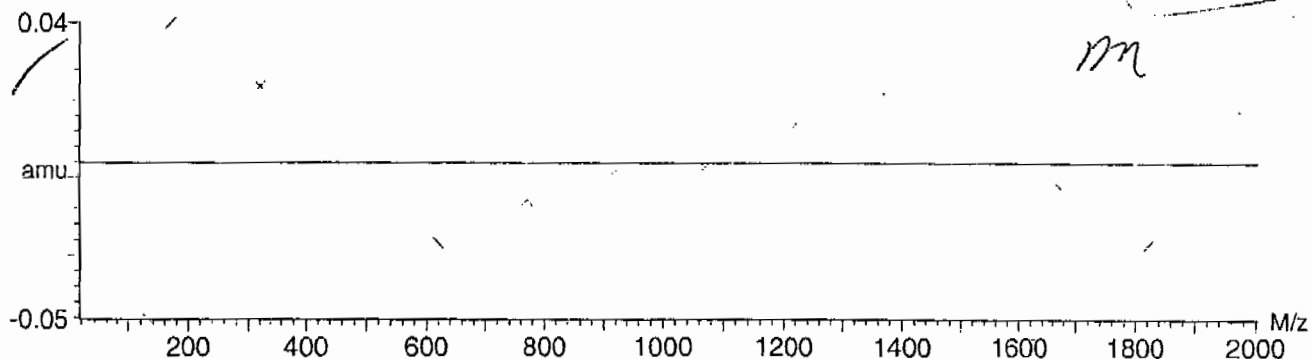


Mass difference (Raw - Ref mass)



Residuals

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

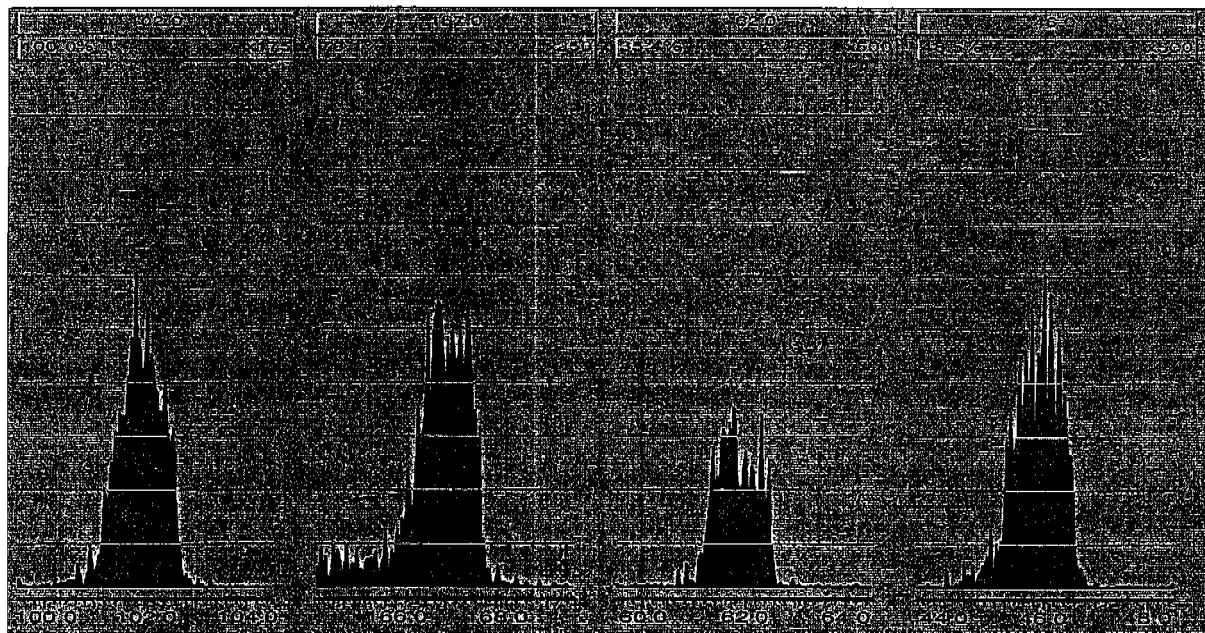


Quattro Micro Tune Parameters

Page 1

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

Printed : Thu Apr 08 15:35:33 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

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) #
			6498.048	11.995	39478.583	17.288
Upper Limit			8447.4624	12.495	51322.1579	17.788
Lower Limit			4548.6336	11.495	27635.0081	16.788
MB for batch 957701	09-apr-10 21:11	EXP0408049a	5140.78	12.001	32237.4	17.309
LCS for batch 957701	09-apr-10 21:41	EXP0408050a	5898.95	11.999	35251.8	17.29
RE15-10-8019	09-apr-10 22:10	EXP0408051a	5333.23	11.998	31623.3	17.289
RE15-10-8019(247904001MS)	09-apr-10 22:40	EXP0408052a	6288.86	11.975	36271	17.288
RE15-10-8019(247904001MSD)	09-apr-10 23:09	EXP0408053a	6546.32	11.972	38704.1	17.29
RE15-10-8013	09-apr-10 23:39	EXP0408054a	5628.54	11.975	32975	17.288
RE15-10-8026	10-apr-10 00:08	EXP0408055a	5955.4	12.001	35194.8	17.288
RE15-10-8017	10-apr-10 00:38	EXP0408056a	6319.8	11.972	38948.5	17.29
RE15-10-8025	10-apr-10 01:07	EXP0408057a	6423.46	11.974	34869.9	17.287
RE15-10-8022	10-apr-10 01:37	EXP0408058a	6481.39	11.972	33937.5	17.29
RE15-10-8014	10-apr-10 03:35	EXP0408062a	6117.16	11.972	34201.7	17.269
RE15-10-8023	10-apr-10 04:04	EXP0408063a	5500.49	11.973	34739.3	17.291
RE15-10-8020	10-apr-10 04:34	EXP0408064a	5653.89	11.973	33367.1	17.288
RE15-10-8018	10-apr-10 05:03	EXP0408065a	6068.73	11.973	35571.6	17.269
RE15-10-8015	10-apr-10 05:33	EXP0408066a	5560.69	11.973	33052.3	17.288
RE15-10-8021	10-apr-10 06:02	EXP0408067a	5602.25	11.973	33288.8	17.267
RE15-10-8024	10-apr-10 06:32	EXP0408068a	5818.22	11.973	33798	17.288
RE15-10-8016	10-apr-10 07:01	EXP0408069a	5740.91	11.973	33690.9	17.289
RE15-10-8065	10-apr-10 07:31	EXP0408070a	5437.42	11.999	33191.4	17.287
RE15-10-8066	10-apr-10 08:00	EXP0408071a	5628.1	11.973	33536.6	17.269
RE15-10-8033	10-apr-10 09:58	EXP0408075a	5894.94	11.996	34129.2	17.28

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d3

Area Upper Limit = + 30% of average IS area from multipoint calibration

Area Lower Limit = - 30% of average IS area from multipoint calibration

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408051a

Date Analyzed: 09-APR-10 22:10

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 =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408051a

Date: 09-Apr-2010

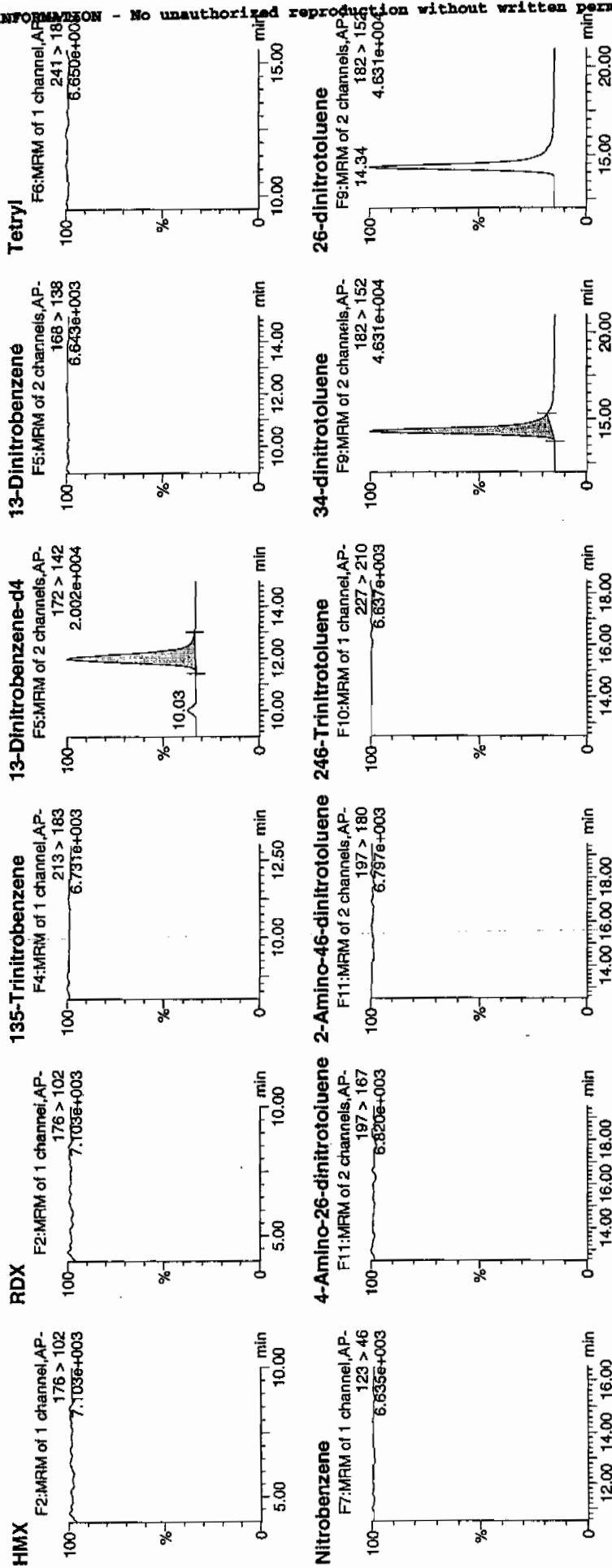
Time: 22:10:40

ID: 247904001

Vial: 2:5,C

4/10/10

WAV 95702 / 8022 / 21



Amc 04/11/10

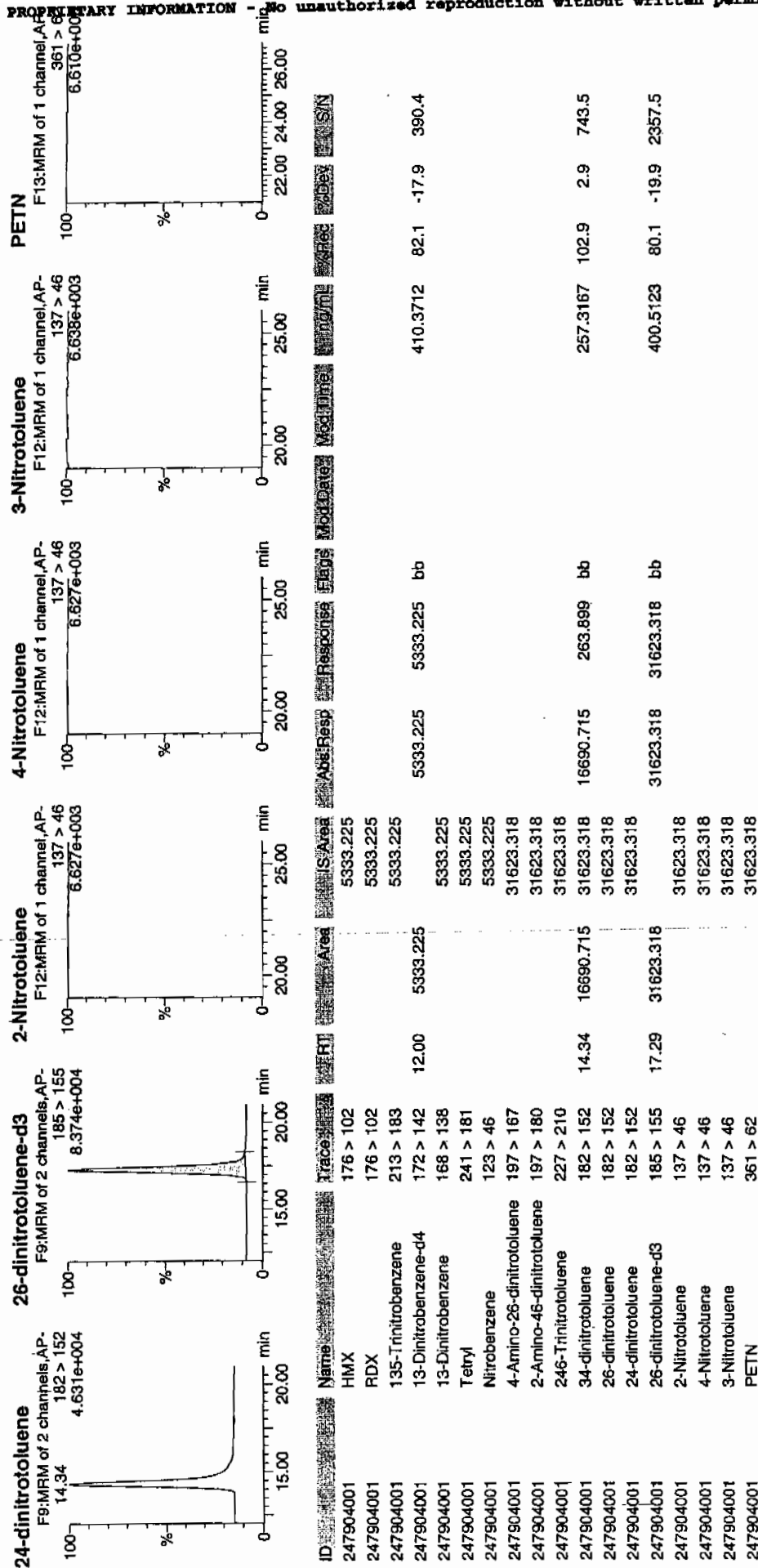
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 52 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904001

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220098.wiff

Date Analyzed: 23-MAR-10 16:39

Units: ug/kg

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

*Concentration =

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

Lab 3/27/10

Sample Name: "247804001" Sample ID: "957702121" File: "EXS03220088.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX832125" Annotation:

Sample Index: 1

Sample Type: Unknown

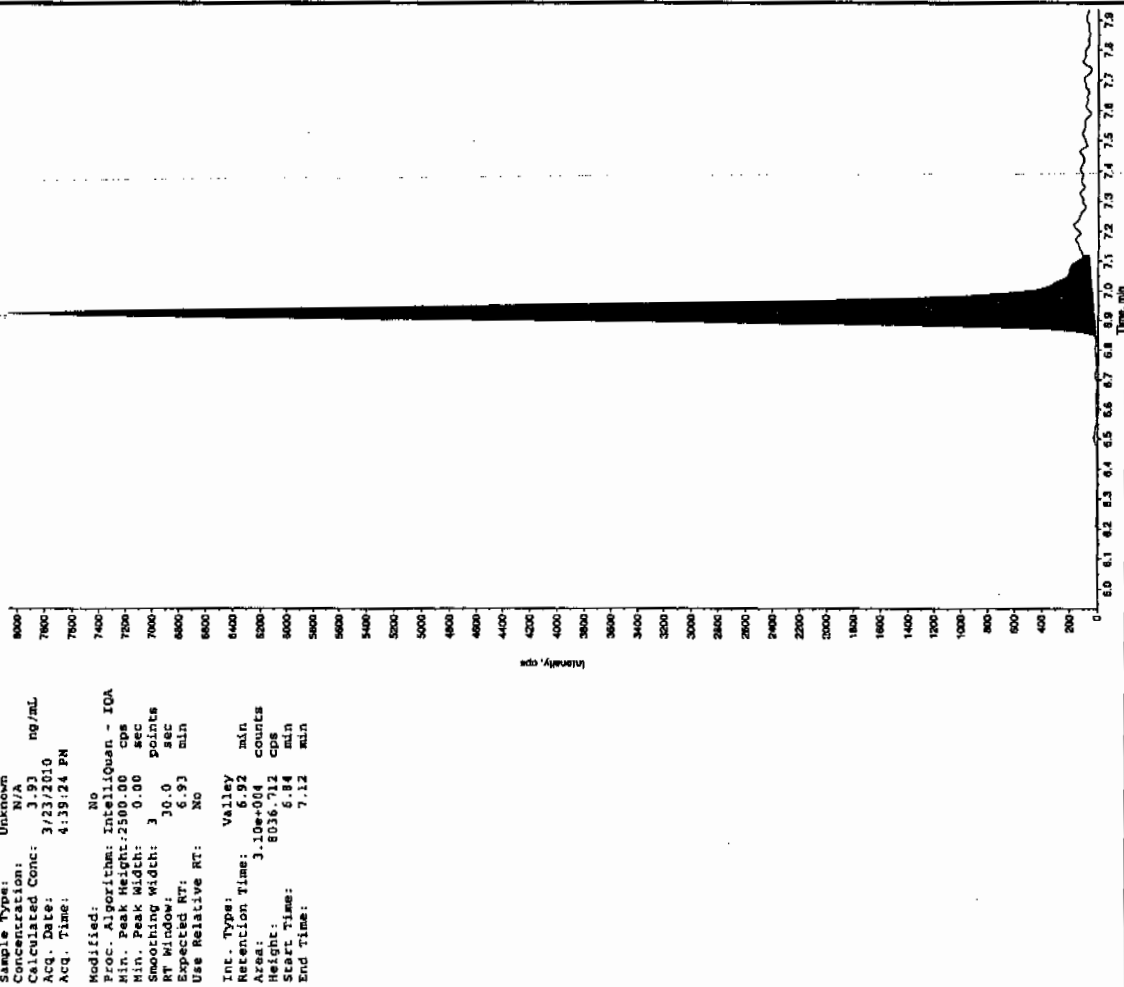
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 4:39:24 PM

Modified: No



Sample Name: "247804001" Sample ID: "957702121" File: "EXS03220088.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation:

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 3.93 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 4:39:24 PM

Modified: No

Proc. Algorithm: Int311Quan - IOA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.93 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 6.92 min

Area: 3.10e+004 counts

Height: 8036.712 cps

Start Time: 6.84 min

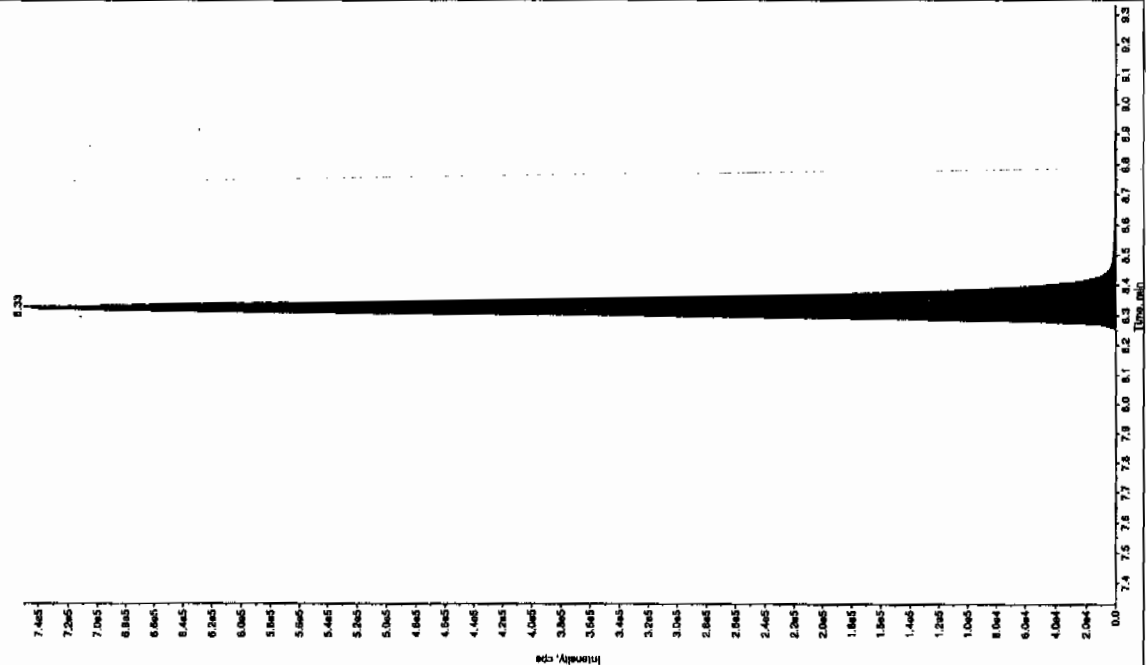
End Time: 7.12 min

Amc 03/29/10

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

Sample Name: "247904001" Sample ID: "957/02/21/ER" File: "EX503220038.wif"
 Peak Number: "1" Retention Time: "8.23 min" Mass(es): "165.045.0 and"
 Comment: "LCMS32125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:39:24 PM
 Modified: No



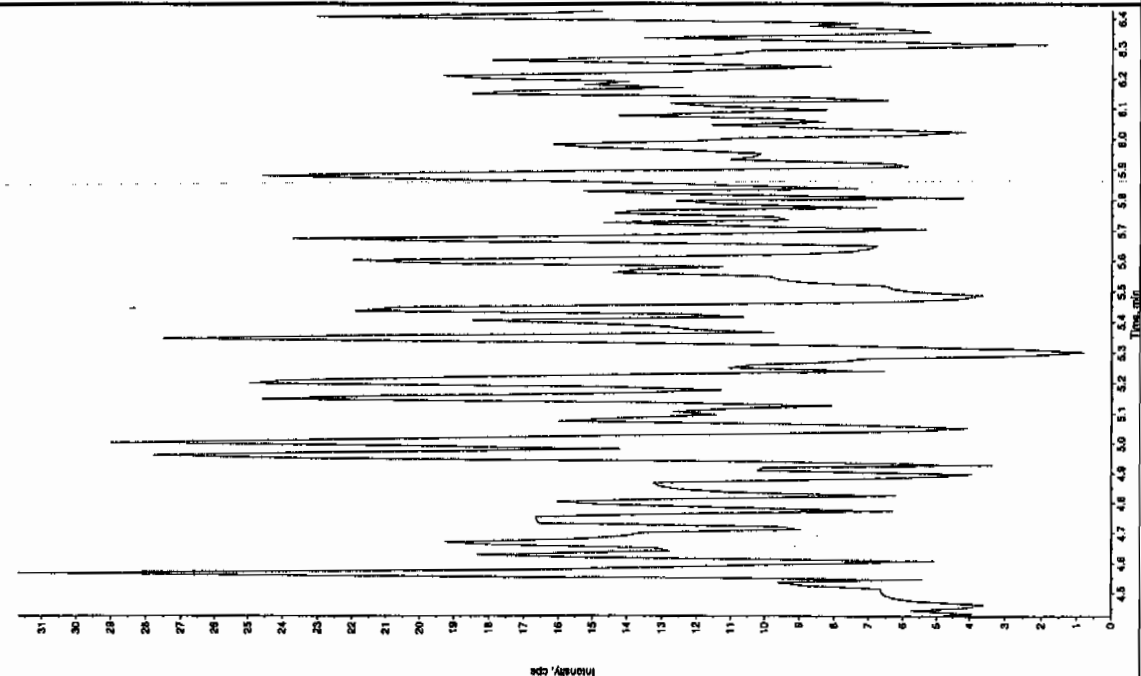
Sample Name: "247904001" Sample ID: "957/02/21/ER" File: "EX503220038.wif"
 Peak Number: "1" Retention Time: "8.23 min" Mass(es): "165.045.0 and"
 Comment: "LCMS32125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 256. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:39:24 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Observed RT: 8.23 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.23 min
 Area: 2.99e+006 counts
 Height: 750489.590 cps
 Start Time: 8.23 min
 End Time: 8.67 min

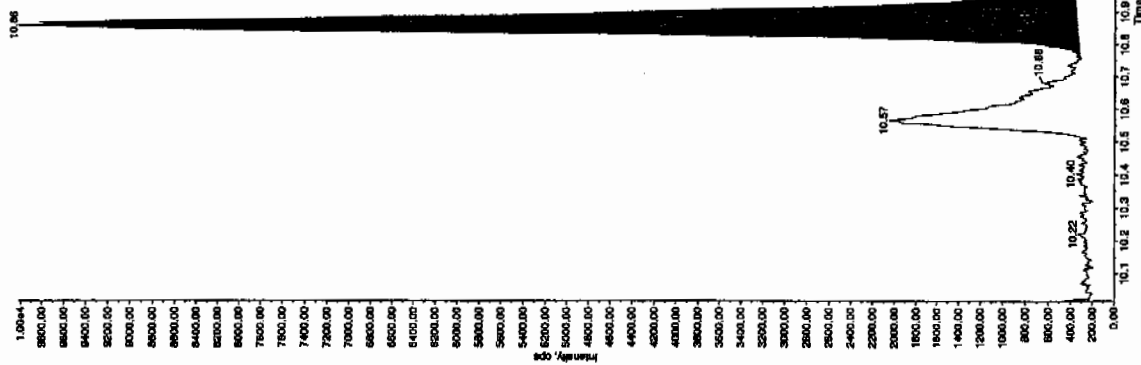
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "247904001" Sample ID: "957702121.ER" File: "EXS0320088.wif"
 Peak Name: "nitro-cresyl phosphatase" Mass(es): "365.1/91.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/3/2010 ng/mL
 Acq. Date: 4/3/24 PM
 Acq. Time: 4:33:24 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.10e+004 counts
 Height: 9667.075 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/3/2010 ng/mL
 Acq. Date: 4/3/24 PM
 Acq. Time: 4:33:24 PM
 Modified: No



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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8013

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408054a

Date Analyzed: 09-APR-10 23:39

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 57 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408054a

Date: 08-Apr-2010

Time: 23:39:07

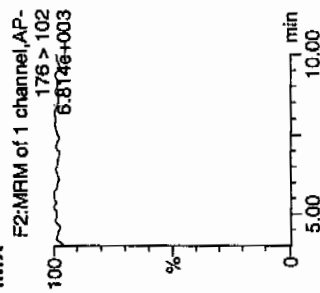
ID: 247904002

Vial: 2:5,F

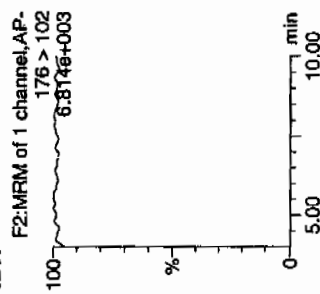
1657
4/15/10

121
121

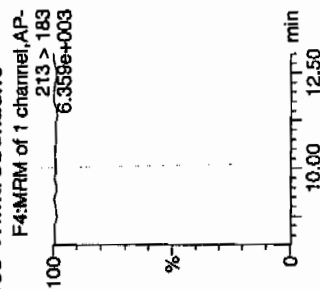
HMX



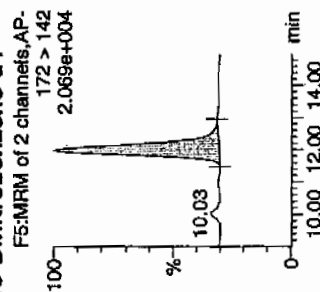
RDX



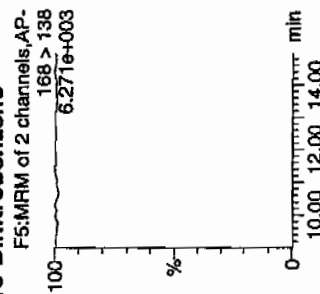
135-Trinitrobenzene



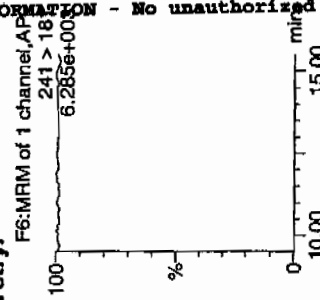
13-Dinitrobenzene-d4



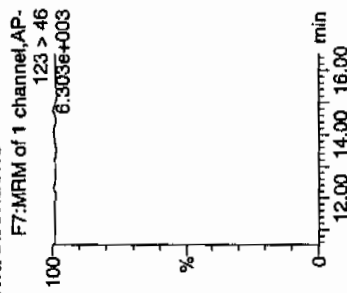
13-Dinitrobenzene



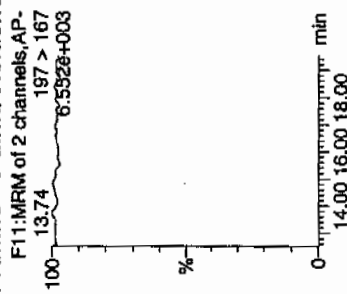
Tetryl



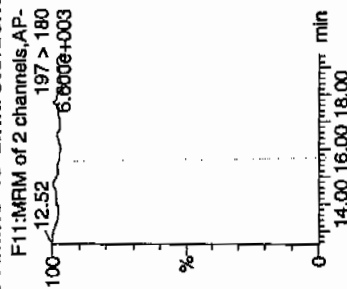
Nitrobenzene



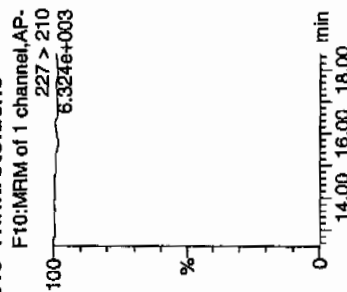
4-Amino-26-dinitrotoluene



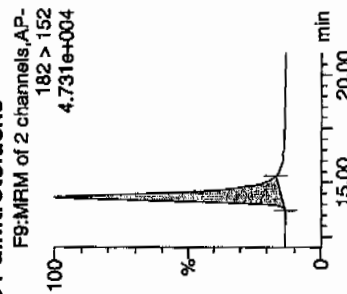
2-Amino-46-dinitrotoluene



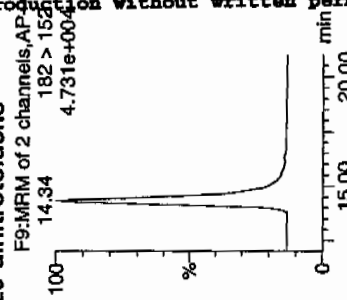
246-Trinitrotoluene



34-dinitrotoluene



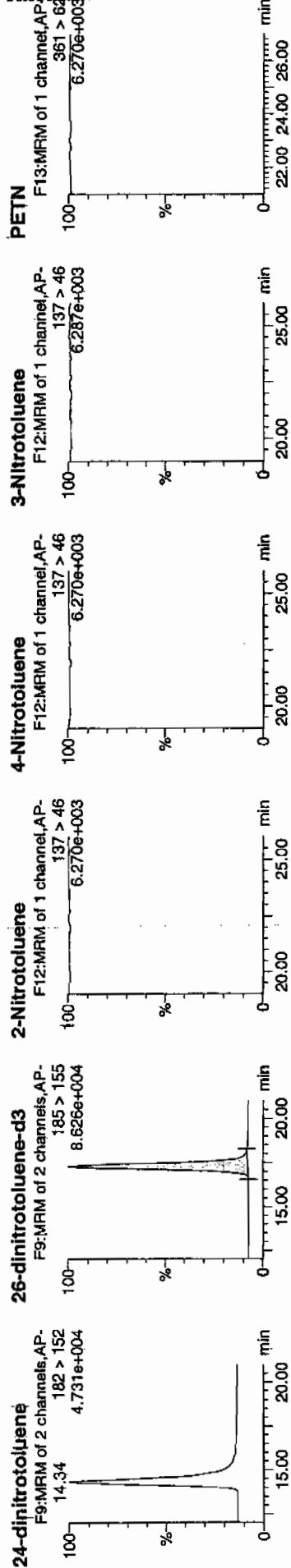
26-dinitrotoluene



Sample 1/10
04/11/10

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ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Dev	PK SN
247904002	HMx	176 > 102			5628.544								
247904002	RDX	176 > 102			5628.544								
247904002	135-Trinitrobenzene	213 > 183			5628.544								
247904002	13-Dinitrobenzene-d4	172 > 142	11.98	5628.544				bb			433.0949	86.6	-13.4
247904002	13-Dinitrobenzene	168 > 138			5628.544								351.7
247904002	Tetryl	241 > 181			5628.544								
247904002	Nitrobenzene	123 > 46			5628.544								
247904002	4-Amino-26-dinitrotoluene	197 > 167			32974.961								
247904002	2-Amino-46-dinitrotoluene	197 > 180			32974.961								
247904002	246-Trinitrotoluene	227 > 210			32974.961								
247904002	34-dinitrotoluene	182 > 152	14.34	18262.346	32974.961	18262.346	276.912	bb			270.0055	108.0	8.0
247904002	26-dinitrotoluene	182 > 152			32974.961								
247904002	24-dinitrotoluene	182 > 152			32974.961								
247904002	26-dinitrotoluene-d3	185 > 155	17.29	32974.961		32974.961	32974.961	bb			417.6310	83.5	-16.5
247904002	2-Nitrotoluene	137 > 46			32974.961								2105.9
247904002	4-Nitrotoluene	137 > 46			32974.961								
247904002	3-Nitrotoluene	137 > 46			32974.961								
247904002	PETN	361 > 62			32974.961								



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8013

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904002

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220101.wiff

Date Analyzed: 23-MAR-10 17:26

Units: ug/kg

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

*Concentration =

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

Jan 3/27/10

Sample Name: "247904002" Sample ID: "9570201.1" File: "EX030220101.wif"

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

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/27/2010

Acq. Time: 5:26:30 PM

Modified: No

Sample Name: "247904002" Sample ID: "9570201.1" File: "EX030220101.wif"

Peak Name: "ATB" Mass(es): "257.2004.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

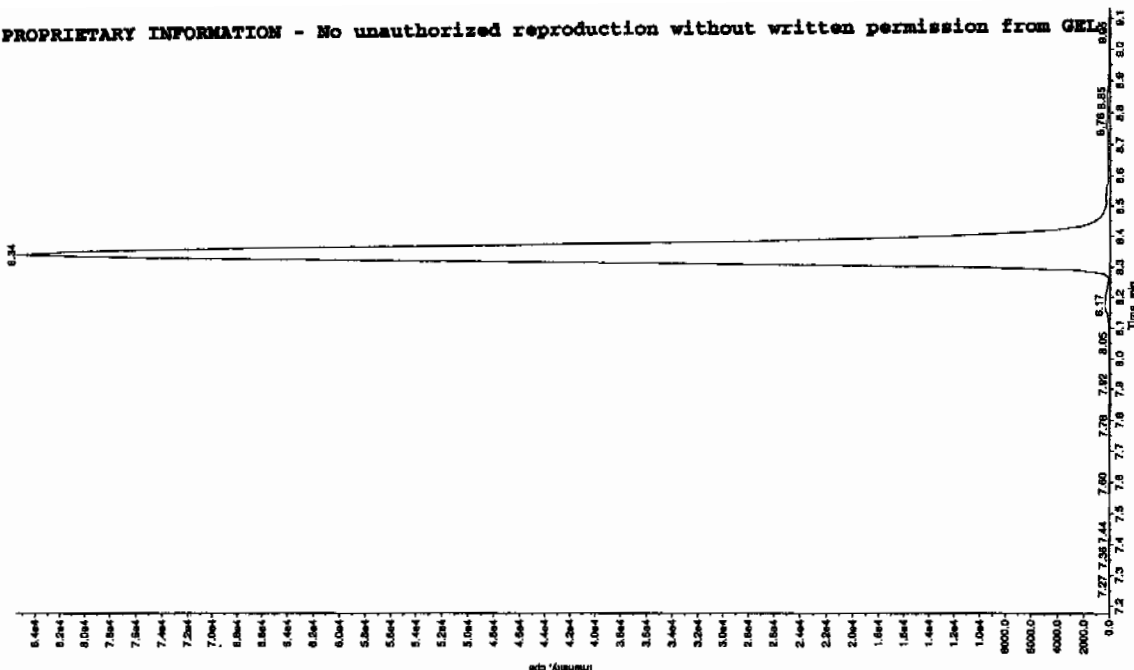
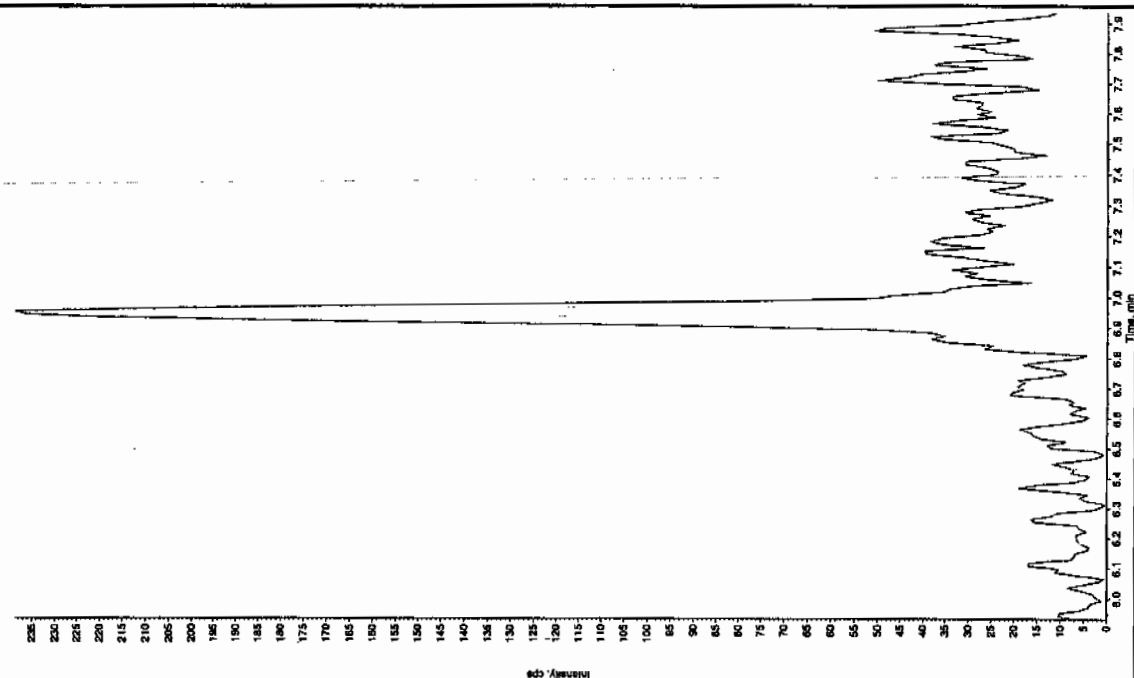
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/27/2010

Acq. Time: 5:26:30 PM

Modified: No

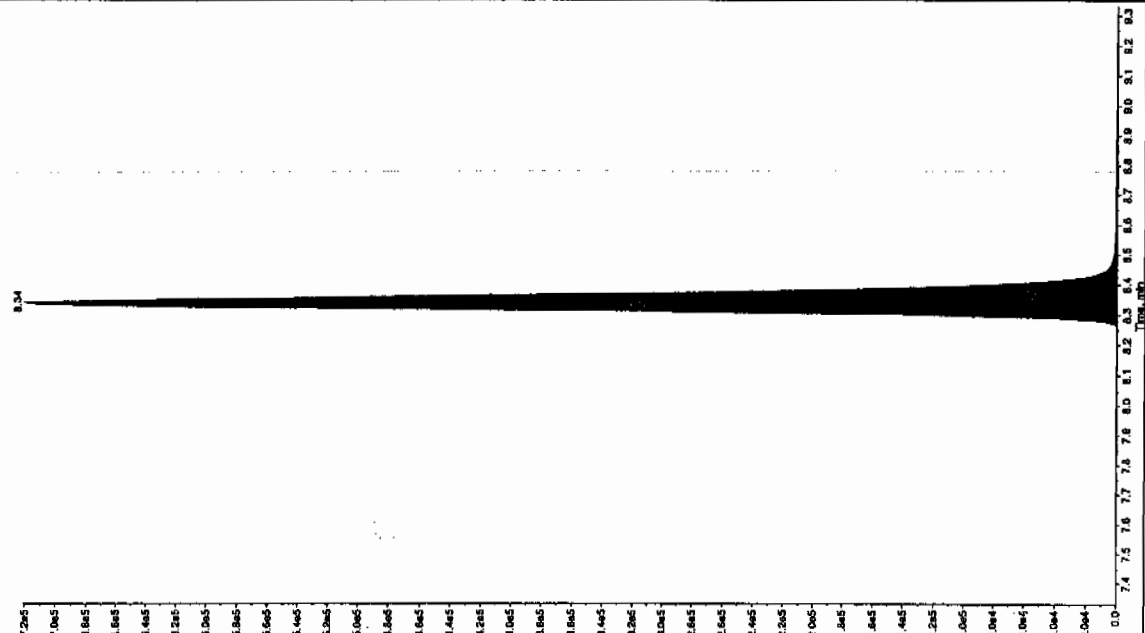


Jan 3/29/10

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

Sample Name: 247504002 Sample ID: 1677020101.wif
 Peak Name: 24-Diamino-4-epi-lysine Mass(es): 165.046.0 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.09 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:26:30 PM
 Modified: No



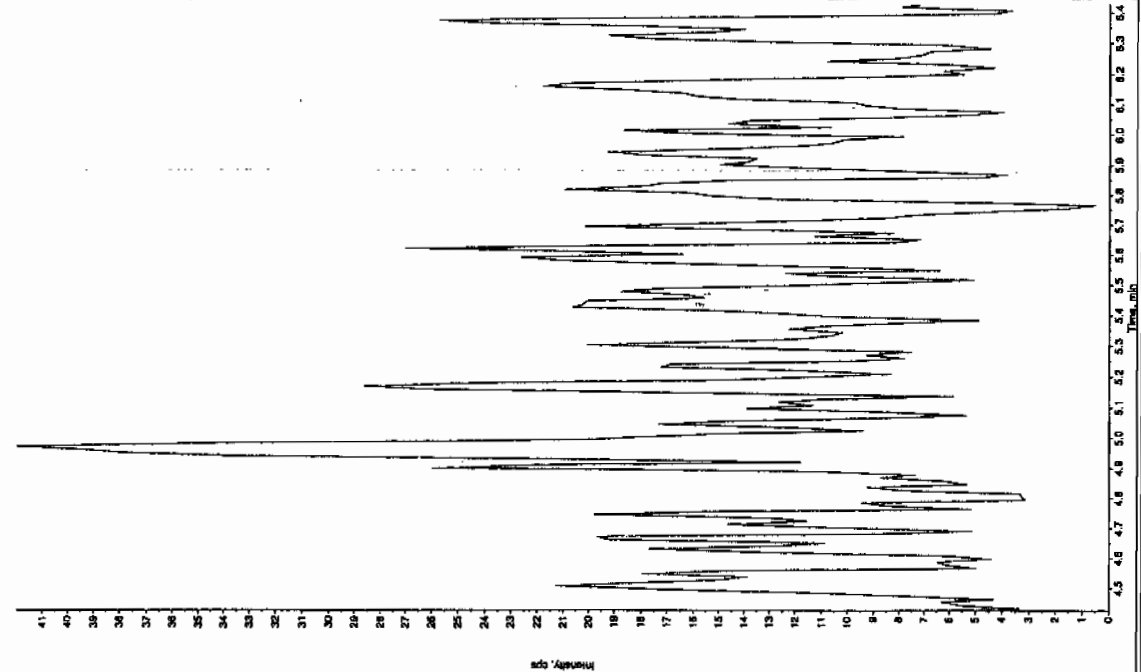
Sample Name: 247504002 Sample ID: 1677020101.wif
 Peak Name: 24-Diamino-4-epi-lysine Mass(es): 165.046.0 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.09 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:26:30 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 15.0 points
 RT Window: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 2.74e+006 counts
 Height: 720840.816 cps
 Start Time: 8.24 min
 End Time: 8.67 min

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

Sample Name: "247904002" Sample ID: "957702121" File: "EX030220101.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.191.0 amu"
 Comment: "LCX532125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 5.85 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:26:30 PM
 Modified: No
 Proc. Algorithm: IsotLiQuan - IOA
 Min. Peak Height: 800.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.3 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.91e+004 counts
 Height: 11248.222 cps
 Start Time: 10.7 min
 End Time: 11.0 min



Sample Name: "247904002" Sample ID: "957702121" File: "EX030220101.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX532125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:26:30 PM
 Modified: No



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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8026

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408055a

Date Analyzed: 10-APR-10 00:08

Units: ug/kg

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

*Concentration =

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

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Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408055a

Date: 10-Apr-2010

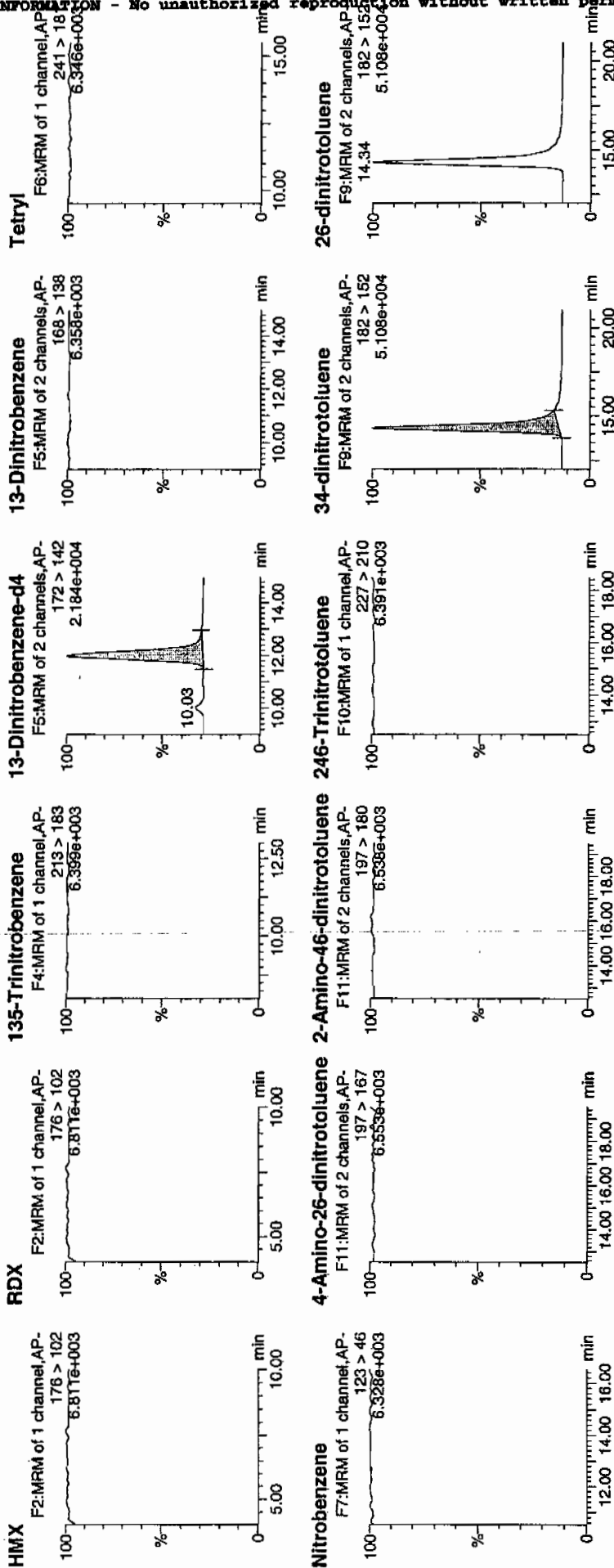
Time: 00:08:36

ID: 247904003

Vial: 2:6-A

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4/10/10

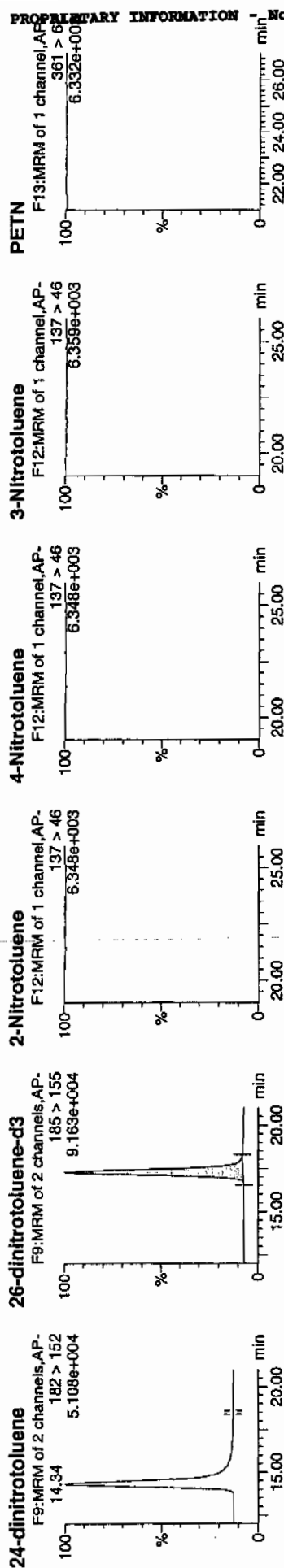
WALC 957702 / 121



Handwritten signature: 4/10/10

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod	Date	Mod	Time	%R66	%Dev
247904003	HMX	176 > 102			5955.401									
247904003	RDX	176 > 102			5955.401									
247904003	135-Trinitrobenzene	213 > 183			5955.401									
247904003	13-Dinitrobenzene-d4	172 > 142	12.00	5955.401		5955.401	5955.401	bb				458.2453	91.6	-8.4
247904003	13-Dinitrobenzene	168 > 138			5955.401									
247904003	Tetryl	241 > 181			5955.401									
247904003	Nitrobenzene	123 > 46			5955.401									
247904003	4-Amino-26-dinitrotoluene	197 > 167			35194.762									
247904003	2-Amino-46-dinitrotoluene	197 > 180			35194.762									
247904003	246-Trinitrotoluene	227 > 210			35194.762									
247904003	34-dinitrotoluene	182 > 152	14.34	18939.629	35194.762	18939.629	269.069	bb				282.3577	104.9	4.9
247904003	26-dinitrotoluene	182 > 152			35194.762									
247904003	24-dinitrotoluene	182 > 152			35194.762									
247904003	26-dinitrotoluene-d3	185 > 155	17.29	35194.762	35194.762	35194.762	35194.762	bb	MM-	10-Apr-10	11:33:24	445.7450	89.1	-10.9
247904003	2-Nitrotoluene	137 > 46			35194.762									
247904003	4-Nitrotoluene	137 > 46			35194.762									
247904003	3-Nitrotoluene	137 > 46			35194.762									
247904003	PETN	361 > 62			35194.762									

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8026

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220102.wiff

Date Analyzed: 23-MAR-10 17:42

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

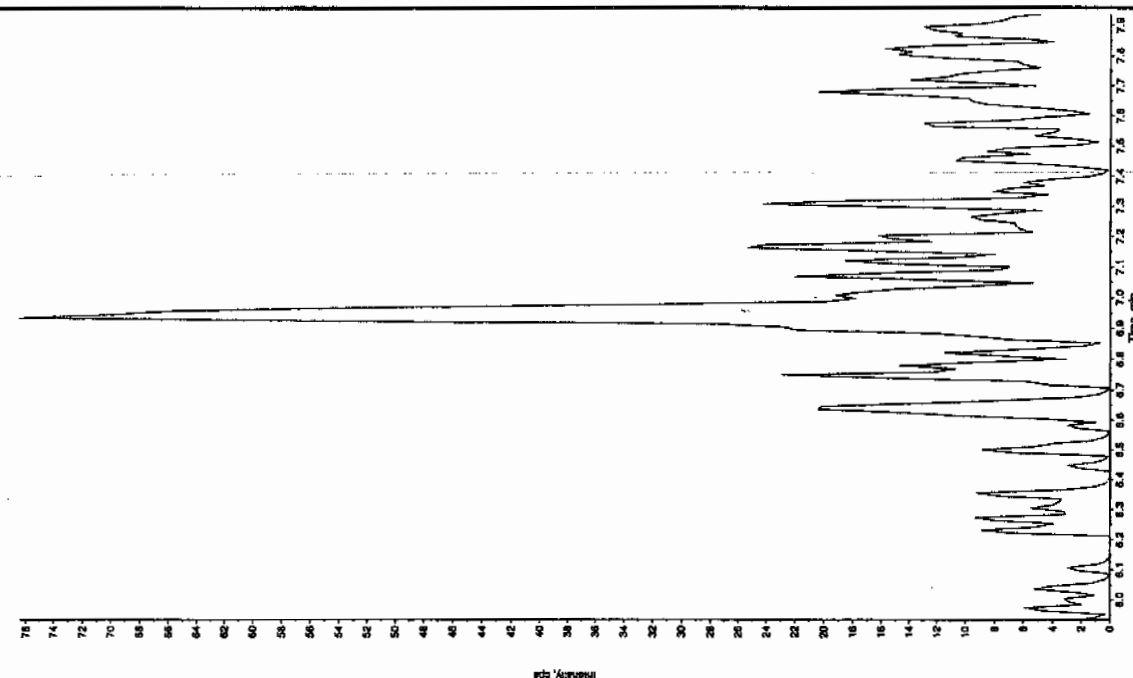
*Concentration =

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

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Sample Name: "24790403" Sample ID: "957702121" File: "EXS03220102.wif"
 Peak Name: "35-Dinitrobenz" Mass(es): "182.046.0 amu"
 Comment: "LCMS032125" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5:42:10 PM
 Acq. Time: 5:42:10 PM
 Modified: No



Sample Name: "24790403" Sample ID: "957702121" File: "EXS03220102.wif"
 Peak Name: "1A1B" Mass(es): "257.2204.9 amu"
 Comment: "LCMS032125" Annotation: "1"

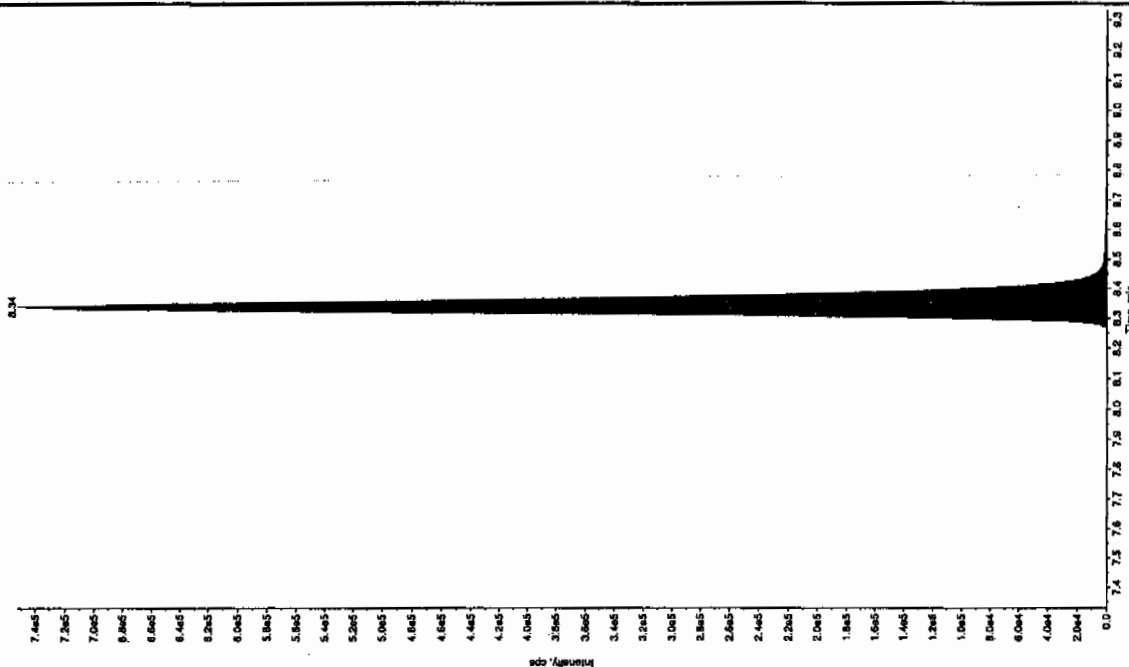
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 5:42:10 PM
 Acq. Time: 5:42:10 PM
 Modified: No



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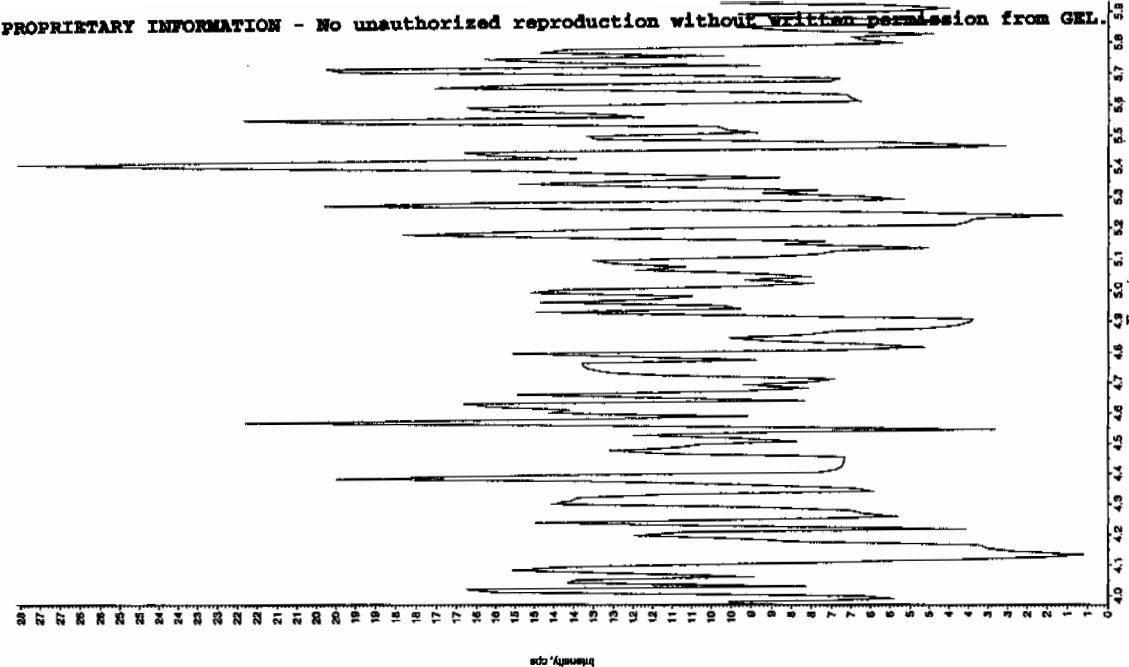
Sample Name: "247904003" Sample ID: "957702021ER" File: "EX503220102.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 254. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:42:10 PM
Modified: No
Proc. Algorithm: IntCalQuan - IOA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 3.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.33 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.34 min
Area: 2.78e+006 counts
Height: 752618.286 cps
Start Time: 8.24 min
End Time: 8.67 min



Sample Name: "247904003" Sample ID: "957702021ER" File: "EX503220102.wif"
Peak Name: "26-Dinitro-4-ethyltoluene" Mass(es): "166.9/166.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:42:10 PM
Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8017

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408056a

Date Analyzed: 10-APR-10 00:38

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 =

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

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Date: 10-Apr-2010

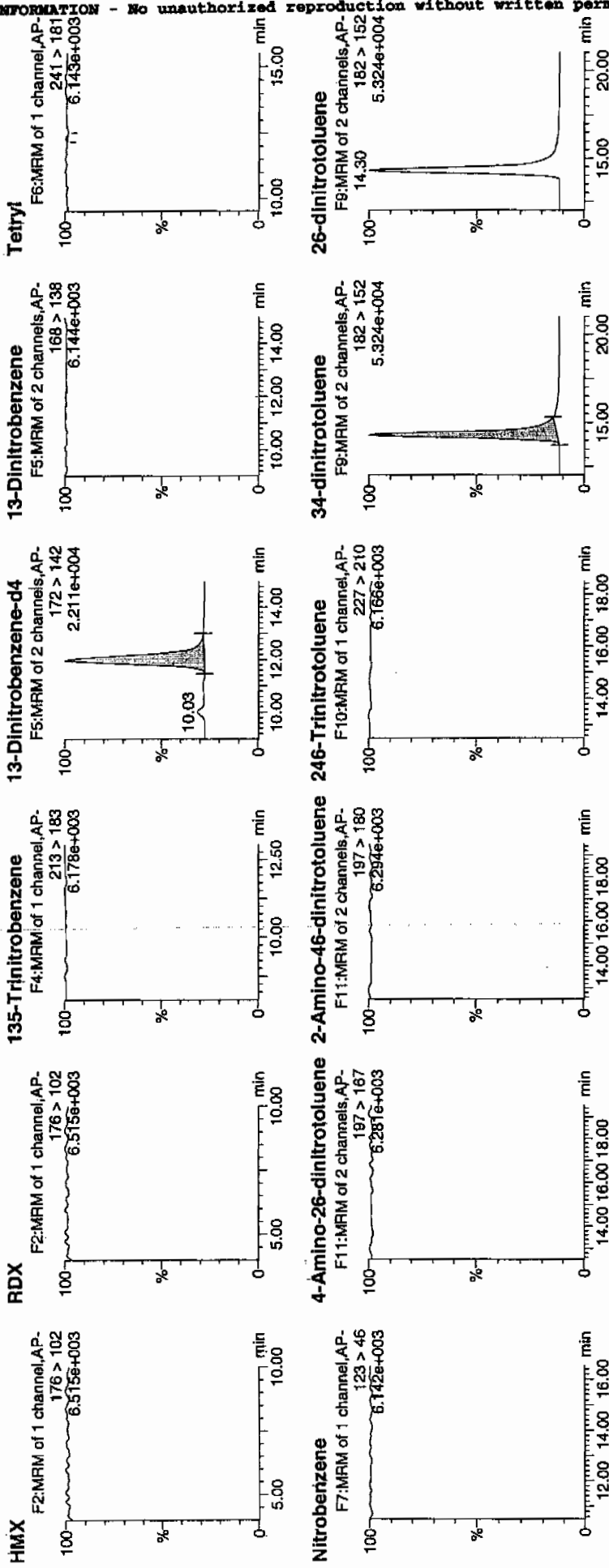
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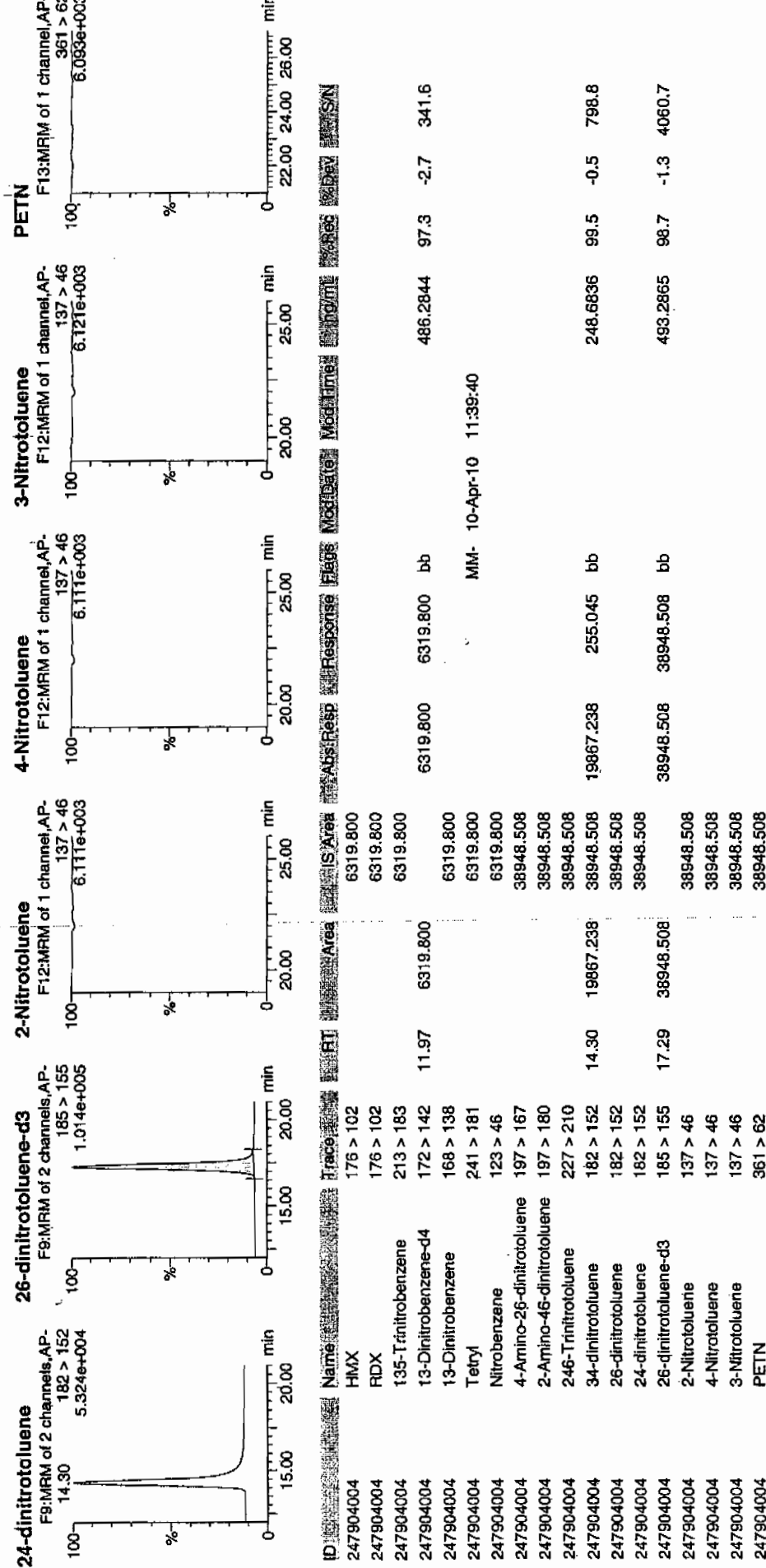
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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8017

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220103.wiff

Date Analyzed: 23-MAR-10 17:57

Units: ug/kg

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

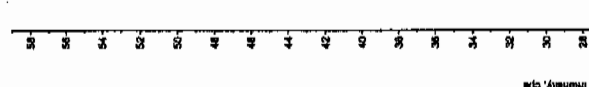
*Concentration =

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

Jan 21/27/10

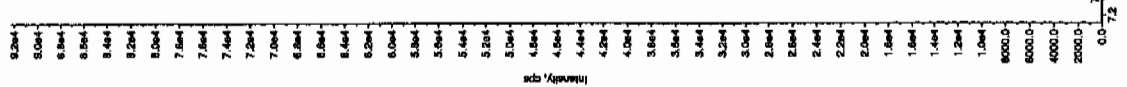
Sample Name: "247904004" Sample ID: "95770201ER" File: "EXS08220103.wif"
 Peak Name: "TATB" Mass(es): "257.2204.8 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:57:56 PM
 Modified: NO



Sample Name: "247904004" Sample ID: "95770201ER" File: "EXS08220103.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: "

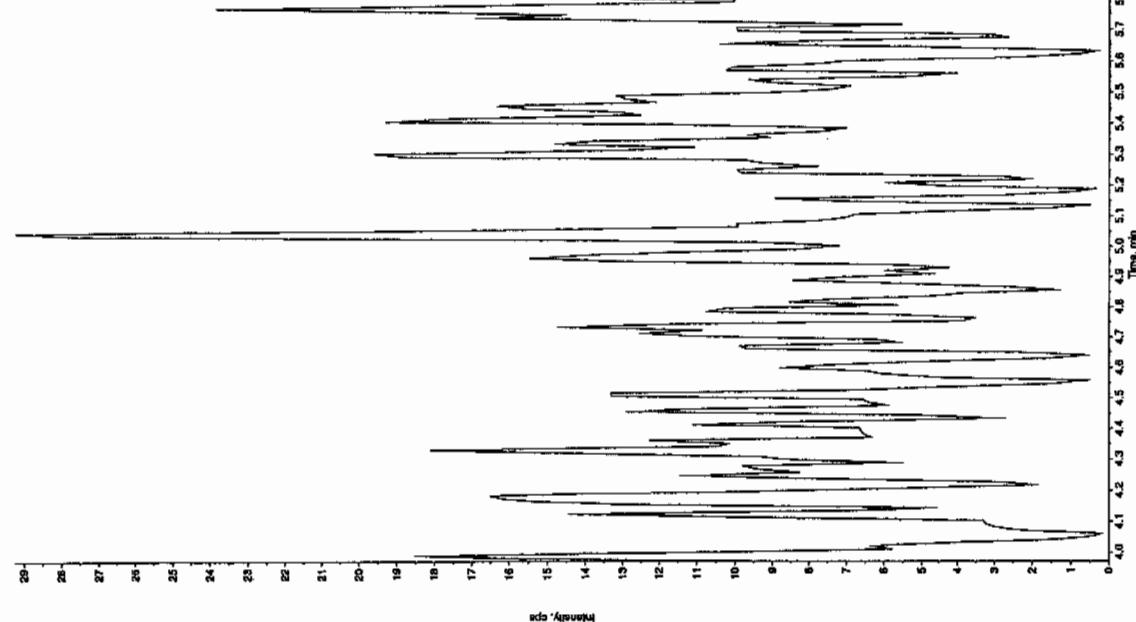
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:57:56 PM
 Modified: NO



Jan 21/27/10

Sample Name: "247904004" Sample ID: "957702121" File: "EX00220103.wif"
 Peak Name: "26-Dichlorobenzene" Mass(es): "166.048.0 amu"
 Comment: "LCX832125" Annotation: ""

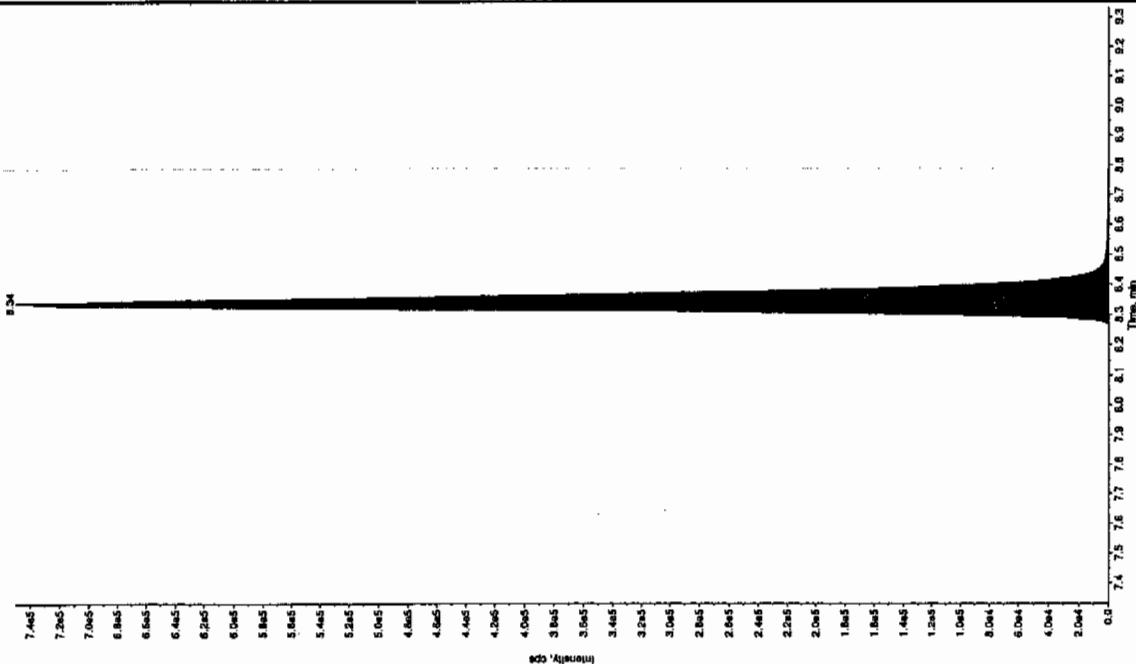
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:57:54 PM
 Modified: No



Sample Name: "247904004" Sample ID: "957702121" File: "EX00220103.wif"
 Peak Name: "34-Dichlorobenzene" Mass(es): "182.1715.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 254. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:57:54 PM
 Modified: No

QC Algorithm: InceliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 2.77e+006 counts
 Height: 749789.673 cps
 Start Time: 8.24 min
 End Time: 8.68 min

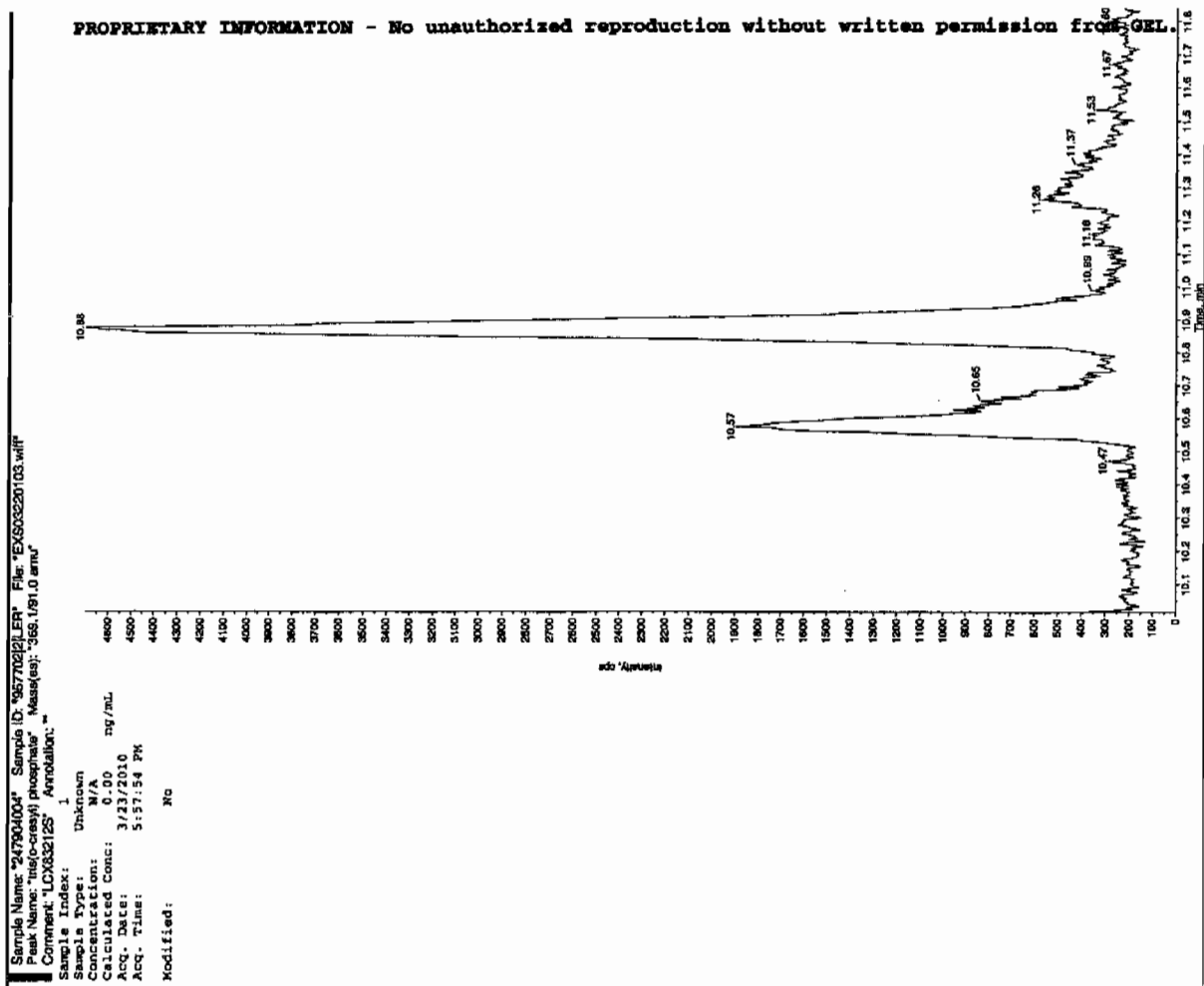
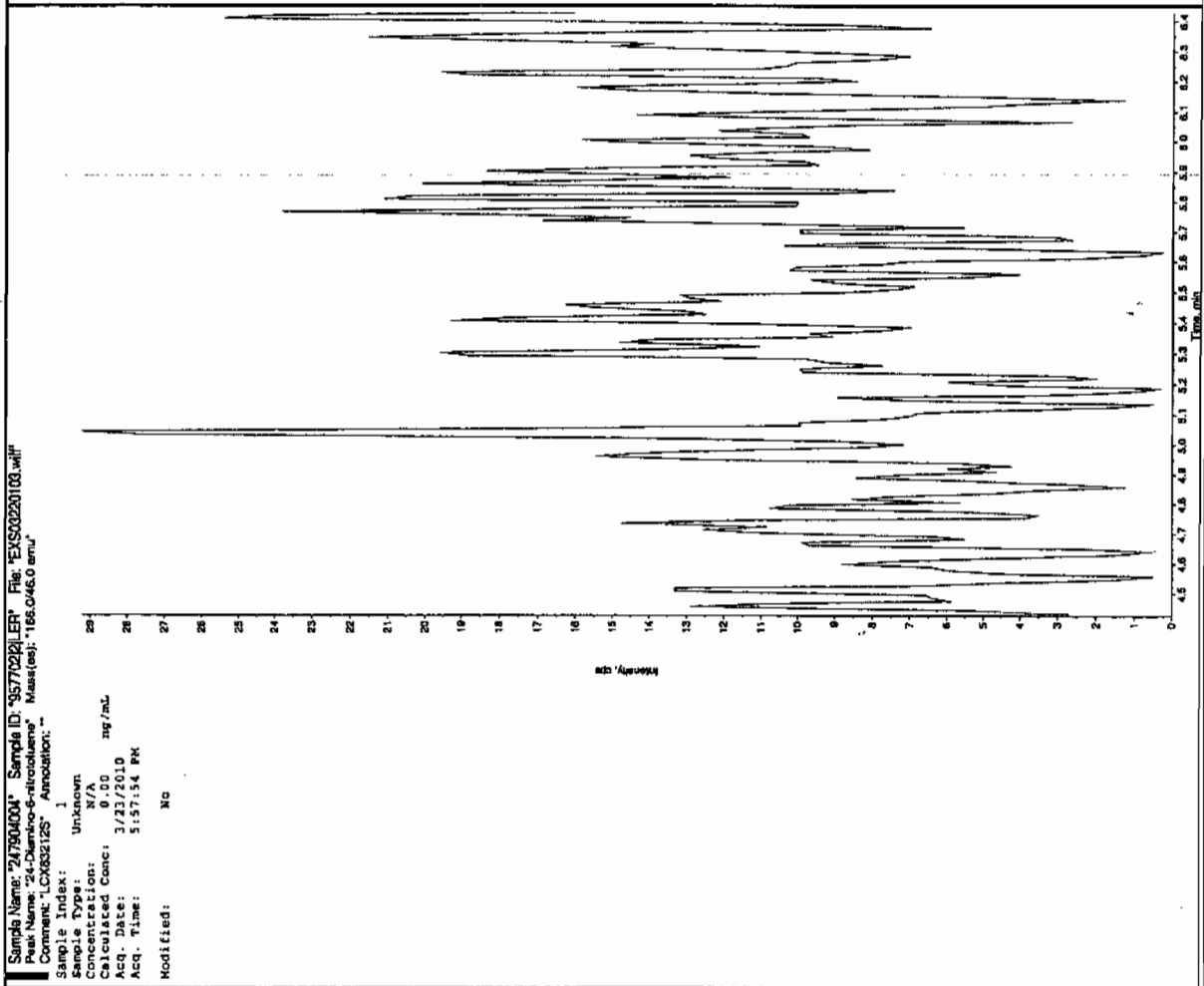


Sample Name: "247904004" Sample ID: "357702121" File: "EXS03220103.wiff"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "355.1/91.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 mg/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:57:54 PM
 Modified: No

Sample Name: "247904004" Sample ID: "357702121" File: "EXS03220103.wiff"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 mg/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:57:54 PM
 Modified: No



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8025

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408057a

Date Analyzed: 10-APR-10 01:07

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 =

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

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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\040810expA1.qld

Date: 10-Apr-2010

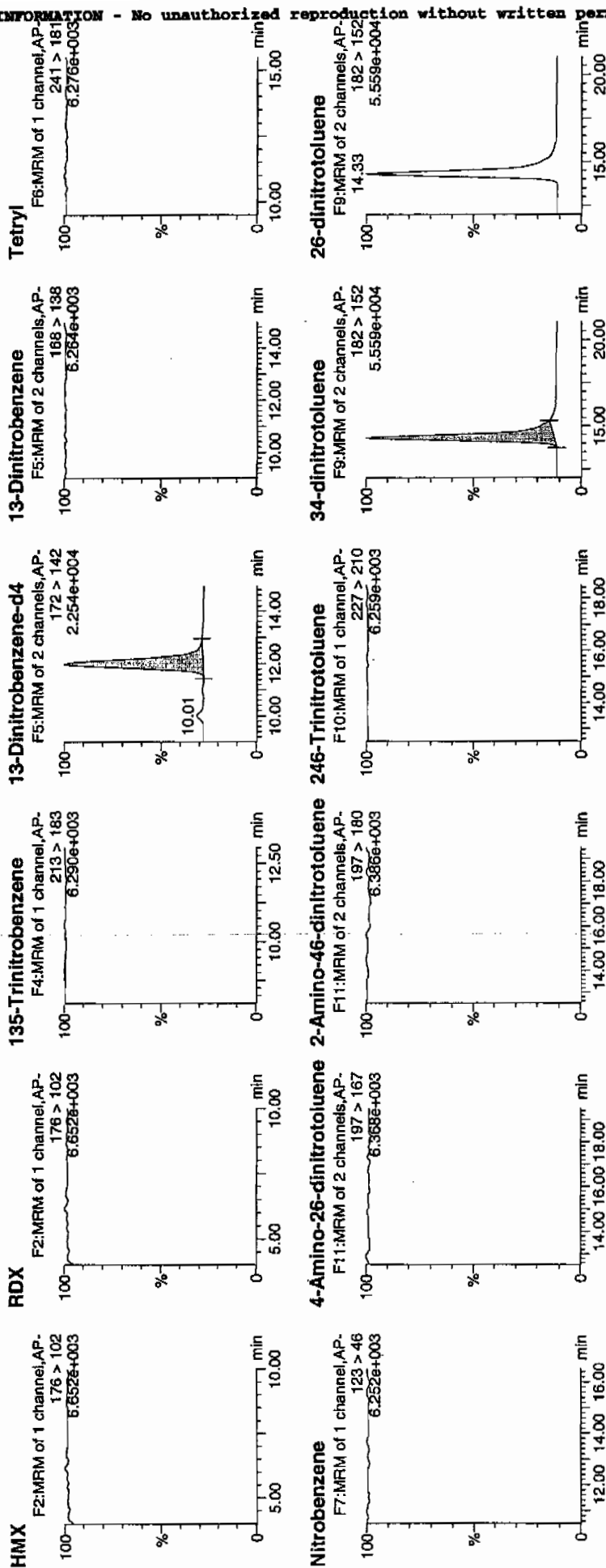
Time: 01:07:36

ID: 247904005

Vial: 2:6,C

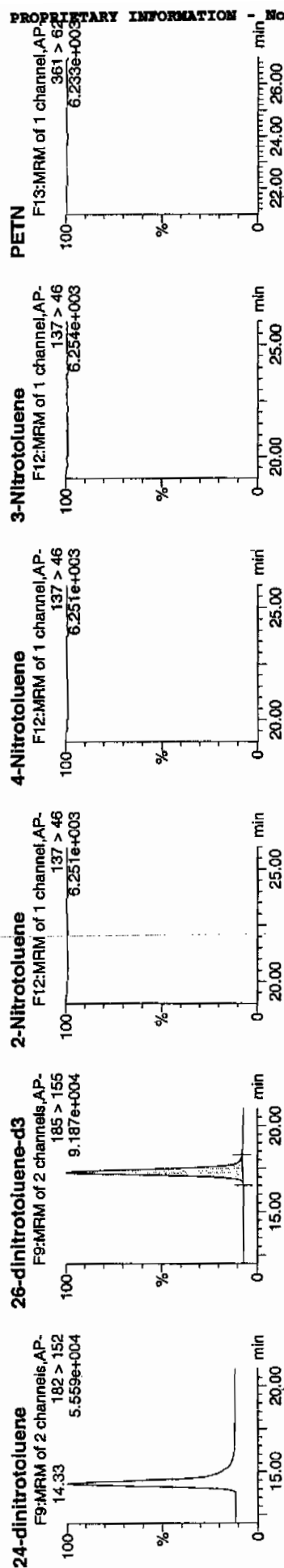
407
9/10/10

121
121



407
9/10/10

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	RT	Area	S'Area	Abs.Resp	Response	Flags	ModDate	ModTime	ImpInt	%Rec	%Dev	IPSN
247904005	HMx	176 > 102			6423.461									
247904005	RDX	176 > 102			6423.461									
247904005	135-Trinitrobenzene	213 > 183			6423.461									
247904005	13-Dinitrobenzene-d4	172 > 142	11.97	6423.461		6423.461	6423.461	bb			494.2607	98.9	-1.1	226.5
247904005	13-Dinitrobenzene	168 > 138			6423.461									
247904005	Tetryl	241 > 181			6423.461									
247904005	Nitrobenzene	123 > 46			6423.461									
247904005	4-Amino-26-dinitrotoluene	197 > 167			34869.867									
247904005	2-Amino-46-dinitrotoluene	197 > 180			34869.867									
247904005	246-Trinitrotoluene	227 > 210			34869.867									
247904005	34-dinitrotoluene	182 > 152	14.33	21233.500		21233.500	304.468	bb			296.8737	118.7	18.7	851.0
247904005	26-dinitrotoluene	182 > 152			34869.867									
247904005	24-dinitrotoluene	182 > 152			34869.867									
247904005	26-dinitrotoluene-d3	185 > 155	17.29	34869.867		34869.867	34869.867	bb			441.6302	88.3	-11.7	3141.3
247904005	2-Nitrotoluene	137 > 46			34869.867									
247904005	4-Nitrotoluene	137 > 46			34869.867									
247904005	3-Nitrotoluene	137 > 46			34869.867									
247904005	PETN	361 > 62			34869.867									

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8025

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220107.wiff

Date Analyzed: 23-MAR-10 19:00

Units: ug/kg

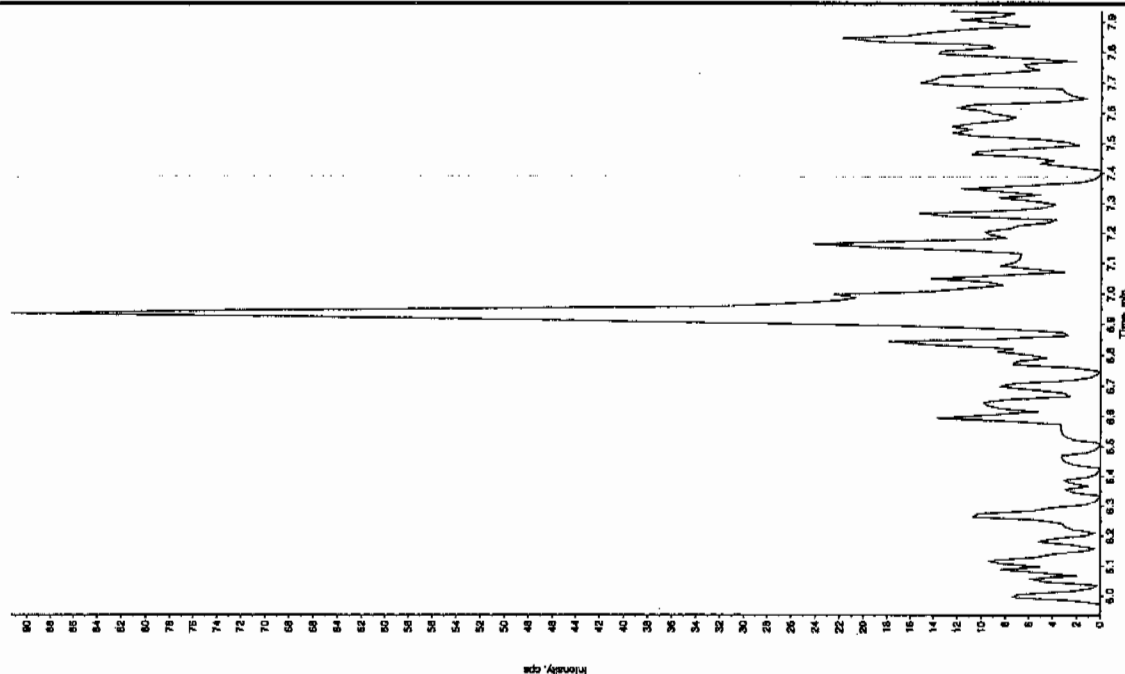
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

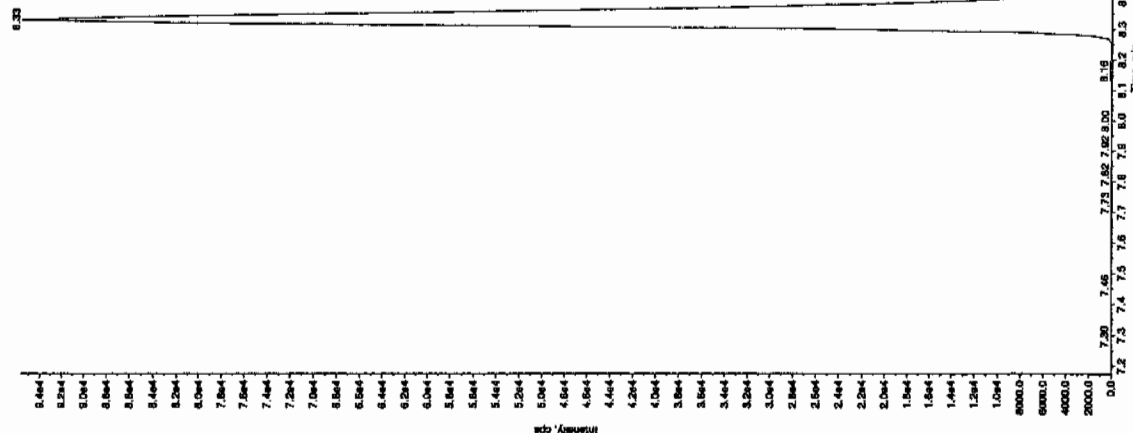
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Sample Name: "24794405" Sample ID: "95770211ER" File: "EX503220107.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:00:42 PM
 Modified: No



Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:00:42 PM
 Modified: No



Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:00:42 PM
 Modified: No

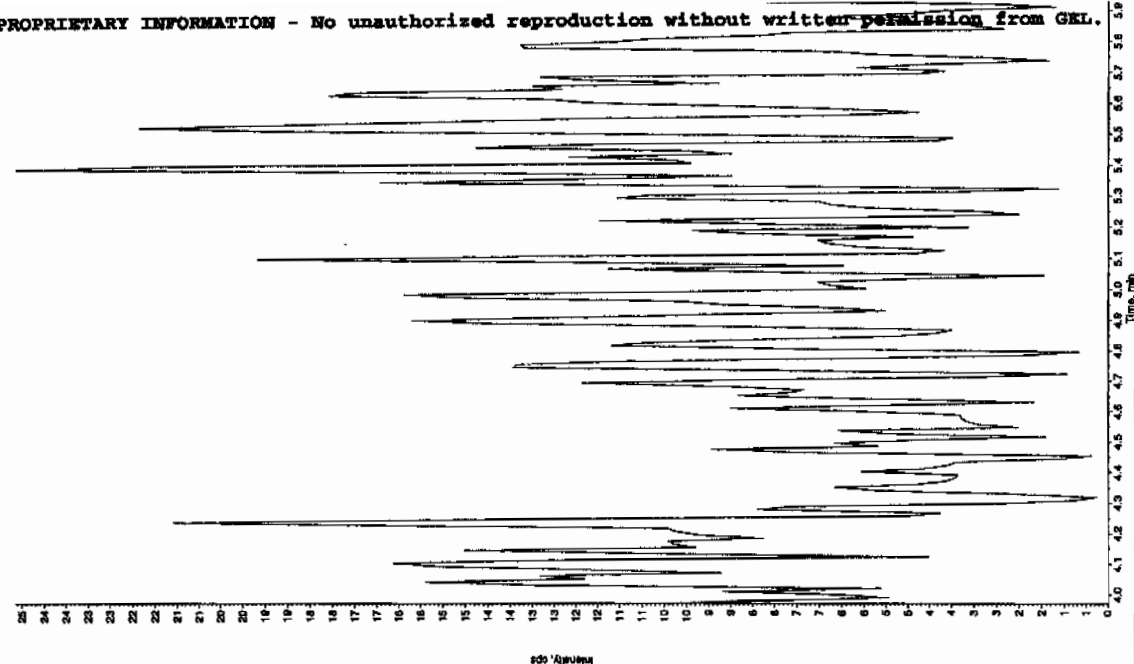
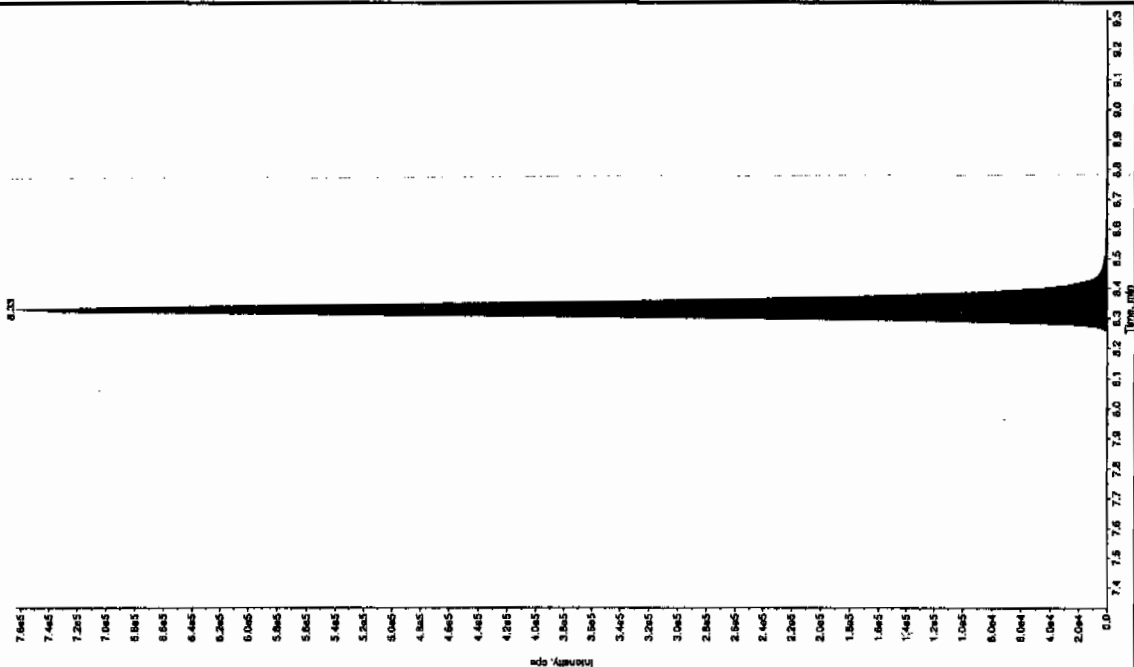
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: 247804055 Sample ID: 35770201.07.wif
 Peak Name: 34-Detecololone Mass(es): 162.046.0 amu
 Comment: LCX632125 Attenuation: 1

Sample Index: 1
 Sample Type: Unknown
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:00:42 PM
 Modified: No

Sample Name: 247804055 Sample ID: 35770201.07.wif
 Peak Name: 34-Detecololone Mass(es): 162.046.0 amu
 Comment: LCX632125 Attenuation: 1

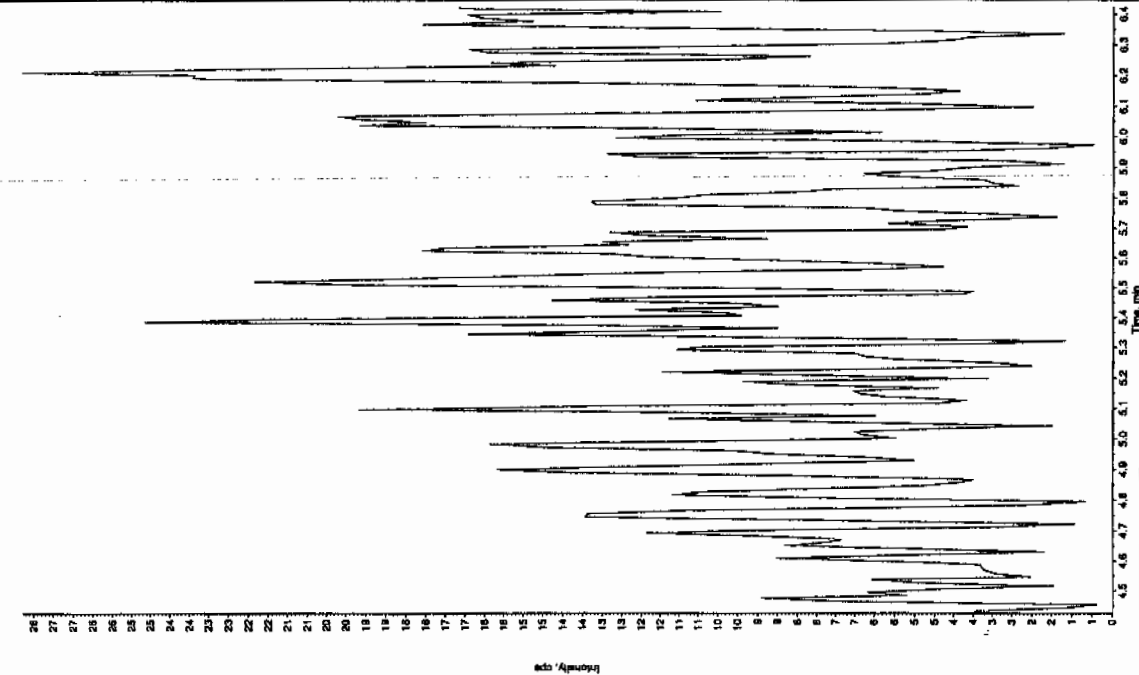
Sample Index: 1
 Sample Type: Unknown
 Calculated Conc: 210. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:00:42 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 AT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Peak Height: 2.73e+006 counts
 Start Time: 8.24 min
 End Time: 8.70 min



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

Sample Name: "247904005" Sample ID: "3577022107.LER" File: "EX030220107.wif"
 Peak Name: "trio-cresyl phosphate" Mass(es): "389.1/81.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:00:42 PM
 Modified: No



Sample Name: "247904005" Sample ID: "3577022107.LER" File: "EX030220107.wif"
 Peak Name: "24-Diamino-5-nitrothiophene" Mass(es): "165.0/66.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:00:42 PM
 Modified: No



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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8022

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408058a

Date Analyzed: 10-APR-10 01:37

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408058a

Date: 10-Apr-2010

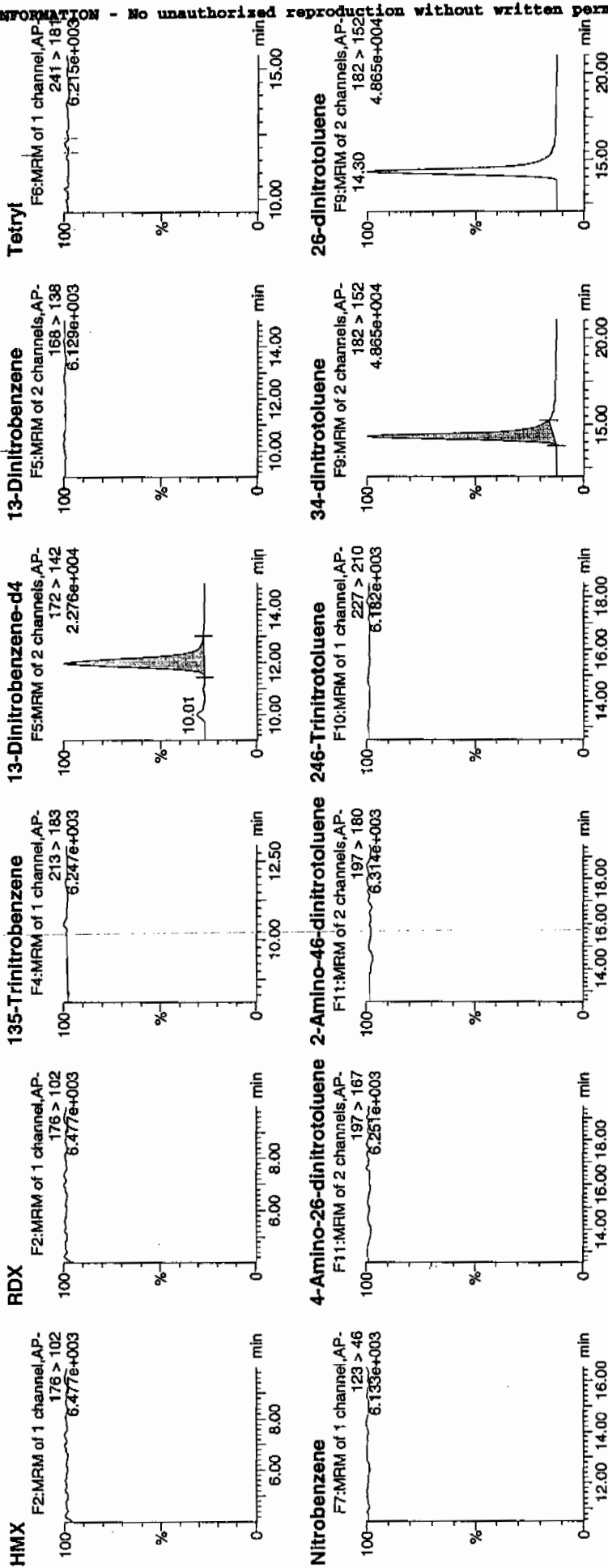
Time: 01:37:06

ID: 247904006

Vial: 2:6,D

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C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408058a

Handwritten: 10.01
4/10/10



Handwritten: 4/10/10

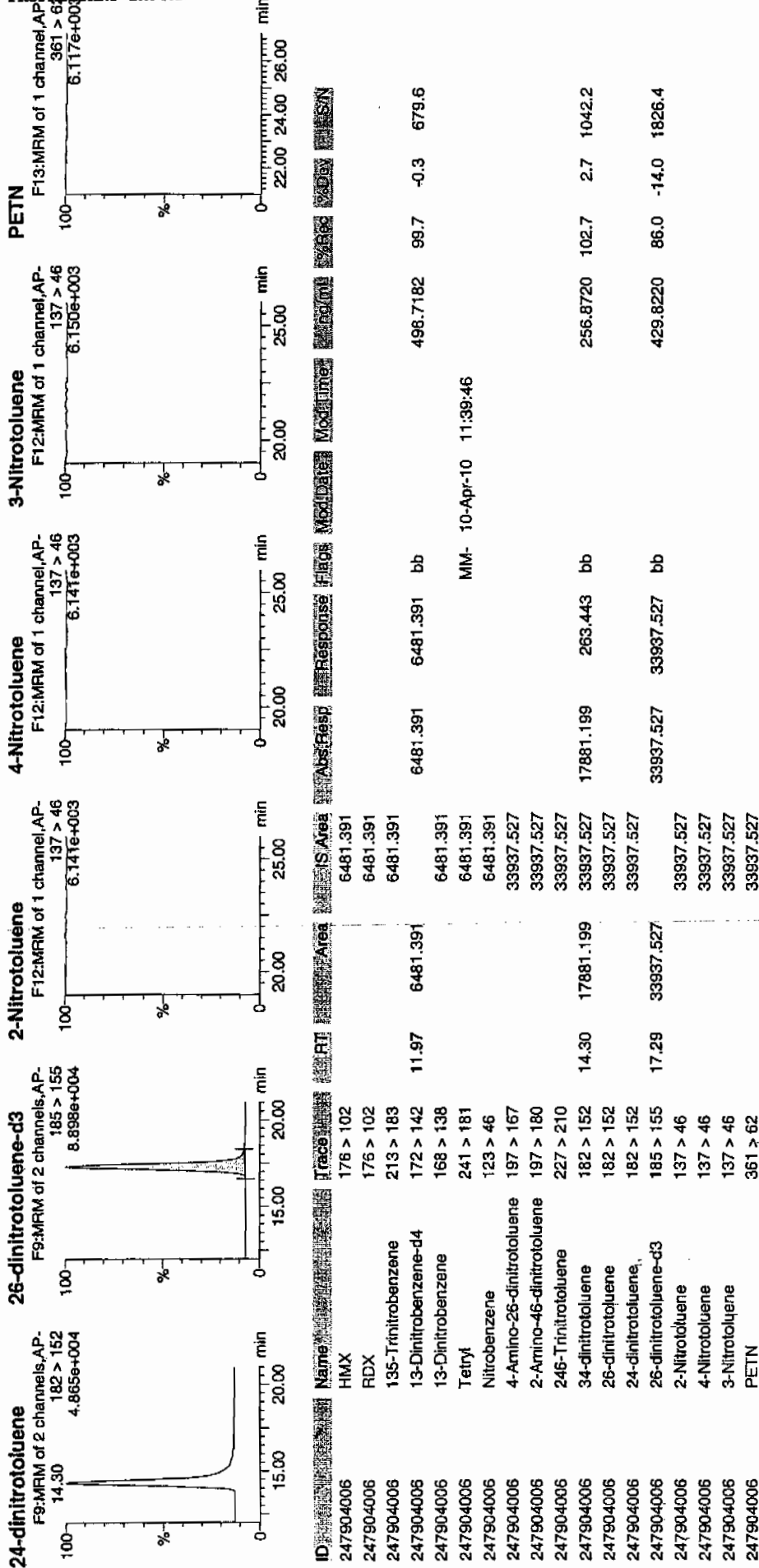
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 66 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8022

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220108.wiff

Date Analyzed: 23-MAR-10 19:16

Units: ug/kg

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

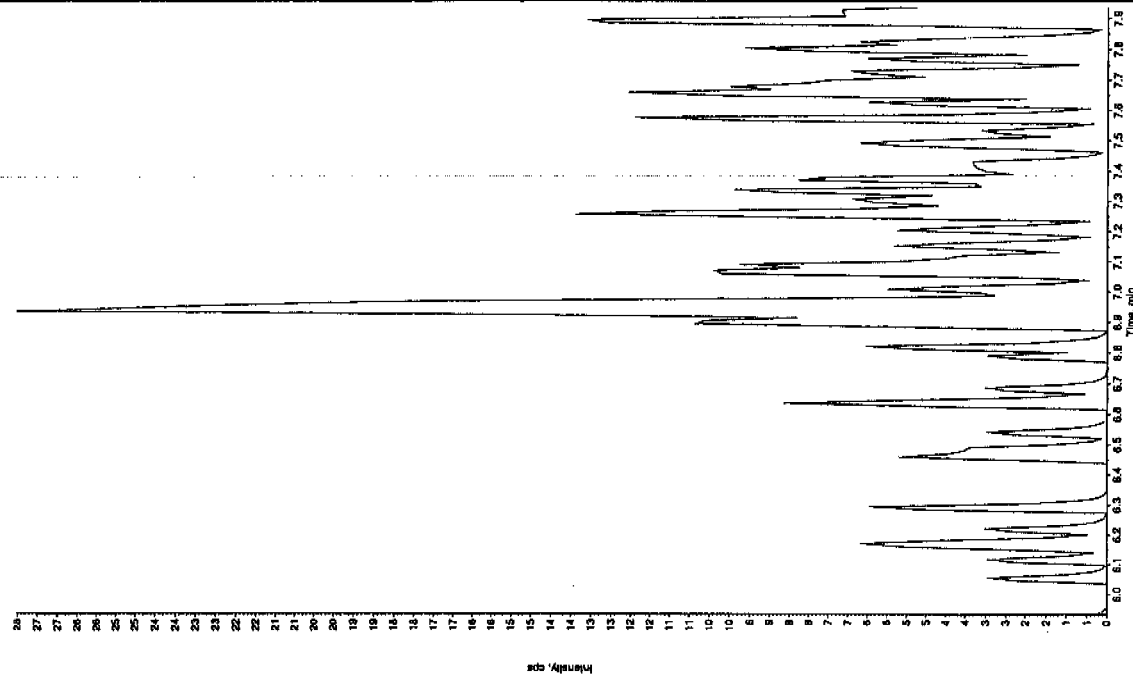
*Concentration =

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

See 3/23/10

Sample Name: "247904006" Sample ID: "367702121" File: "EXS0320108.wif"
 Peak Name: "367702121" Mass: "162.046.0 amu"
 Concent: "1.0X832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:15:25 PM
 Modified: No



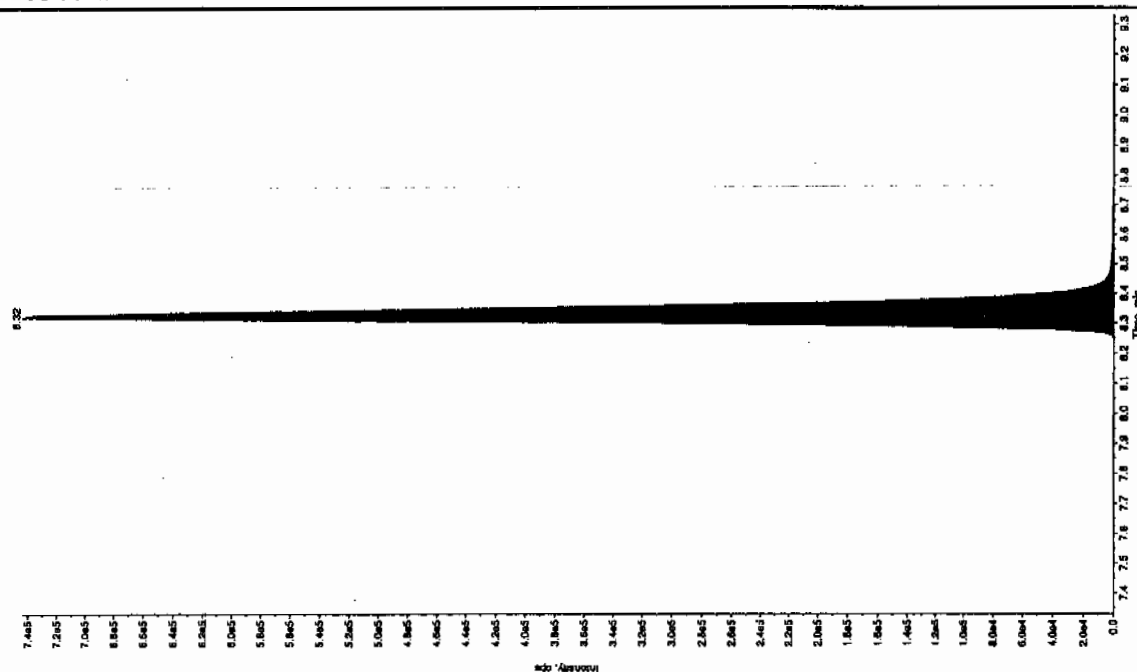
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:15:25 PM
 Modified: No

See 03/29/10

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

Sample Name: "247904006" Sample ID: "95702211.EP" File: "EXS03220108.wif"
 Peak Name: "252-Diethyl-ester" Mass(es): "166.046.0 and
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ug/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:15:25 PM
 Modified: No

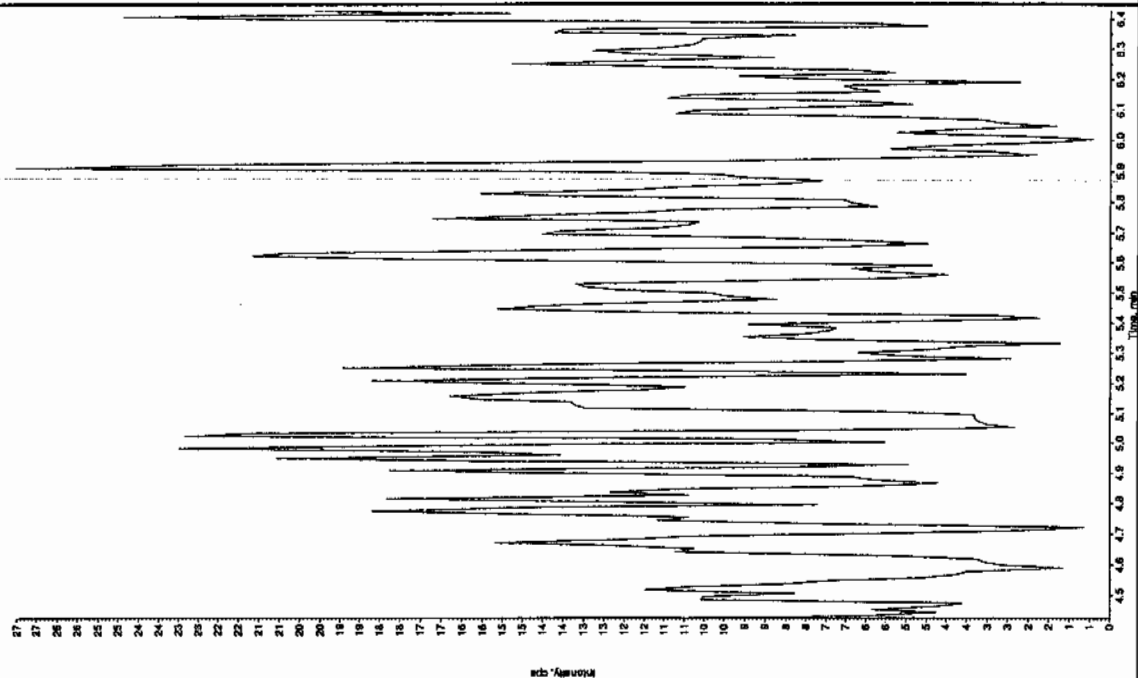


Sample Index: 1
 Sample Type: Unknown
 Concentration: 252 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:15:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.22 min
 Area: 2.75e+006 counts
 Height: 743955.811 cps
 Start Time: 8.22 min
 End Time: 8.71 min

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

Sample Name: "247904006" Sample ID: "957702321.ER" File: "EX503220108.will"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "389.181.0 amu"
 Comment: "LCX832125" Annotation: ""

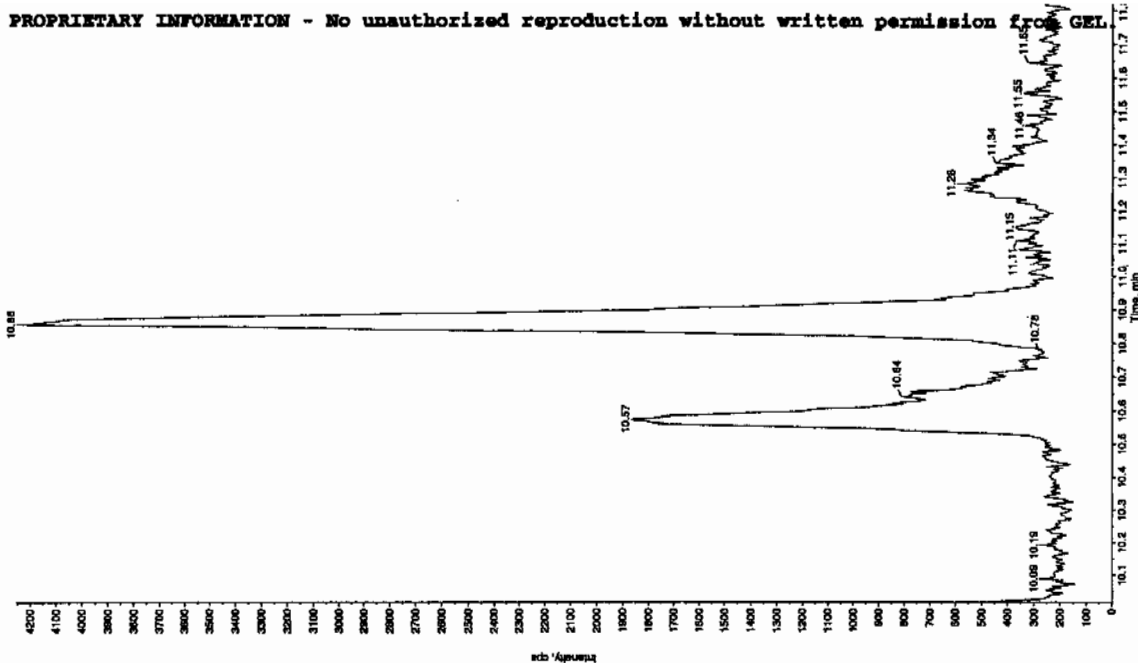
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 7:16:25 PM
 Acq. Time: 7:16:25 PM
 Modified: No



Intensity, cps

Sample Name: "247904006" Sample ID: "957702321.ER" File: "EX503220108.will"
 Peak Name: "24-Diamino-6-nitroketone" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 7:16:25 PM
 Acq. Time: 7:16:25 PM
 Modified: No



Intensity, cps

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8014

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408062a

Date Analyzed: 10-APR-10 03:35

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408062a

Date: 10-Apr-2010

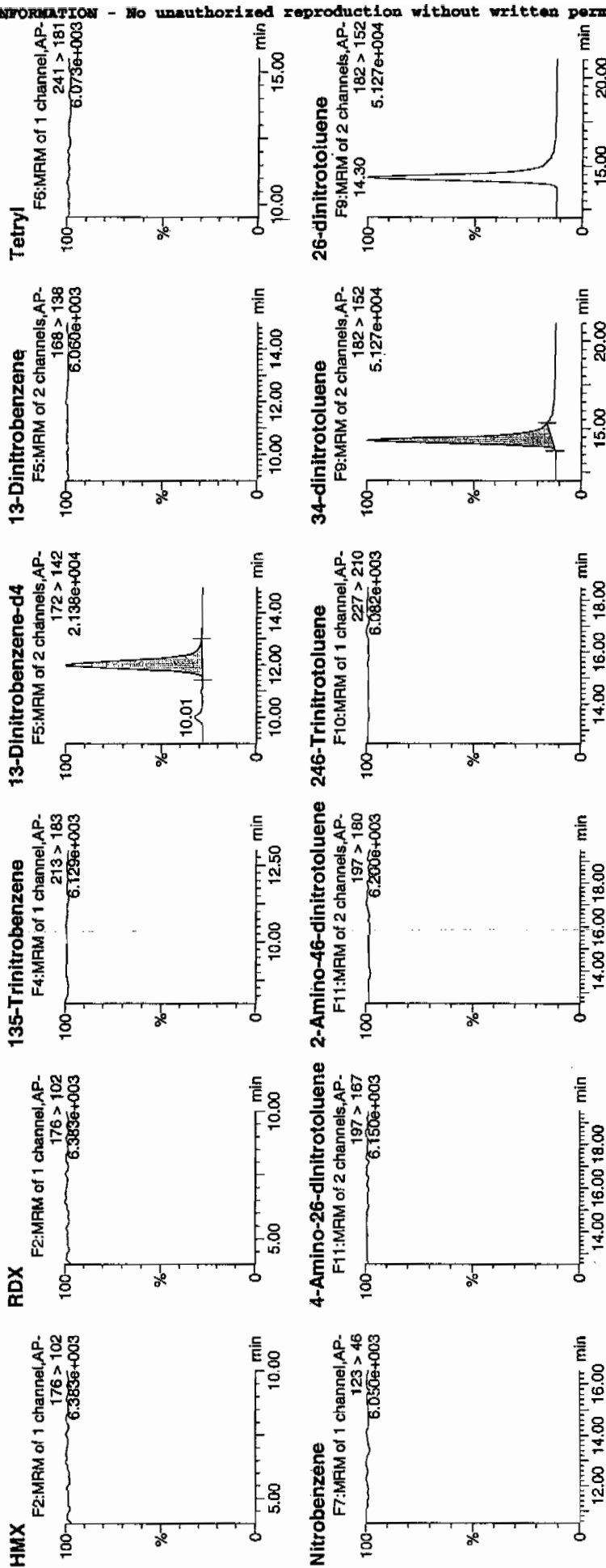
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ID: 247904007

Vial: 2:6,E

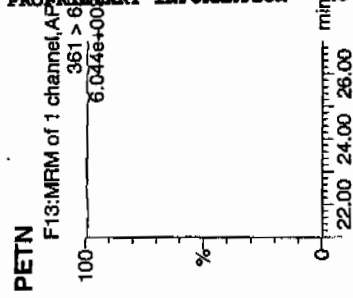
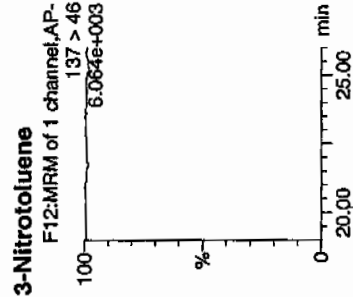
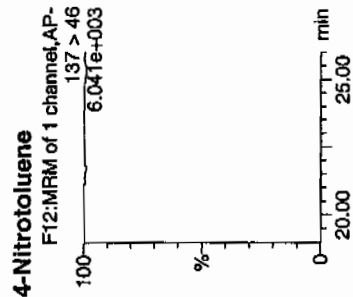
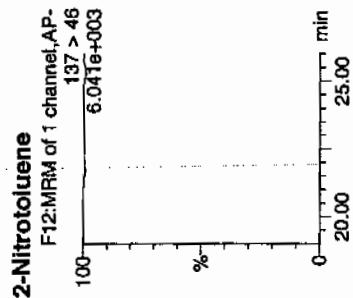
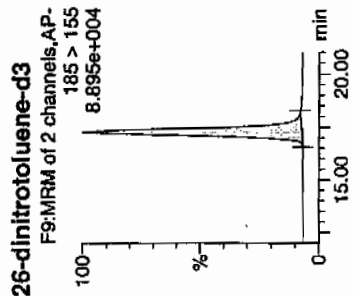
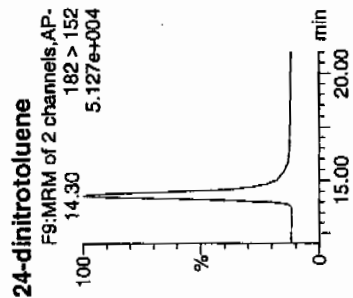
1647
4/10

WALC 957702-1802-121



Handwritten signature/initials: 4/10/10

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

[illegible]

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8014

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220109.wiff

Date Analyzed: 23-MAR-10 19:32

Units: ug/kg

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

*Concentration =

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

for 3/27/10

Sample Name: "247604007" Sample ID: "957702121" File: "EXS03220108.wif"

Peak Name: "TATB" Mass(es): "257.2204.5 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 7:32:08 PM

Modified: No

Sample Name: "247604007" Sample ID: "957702121" File: "EXS03220108.wif"

Peak Name: "TATB" Mass(es): "257.2204.5 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown

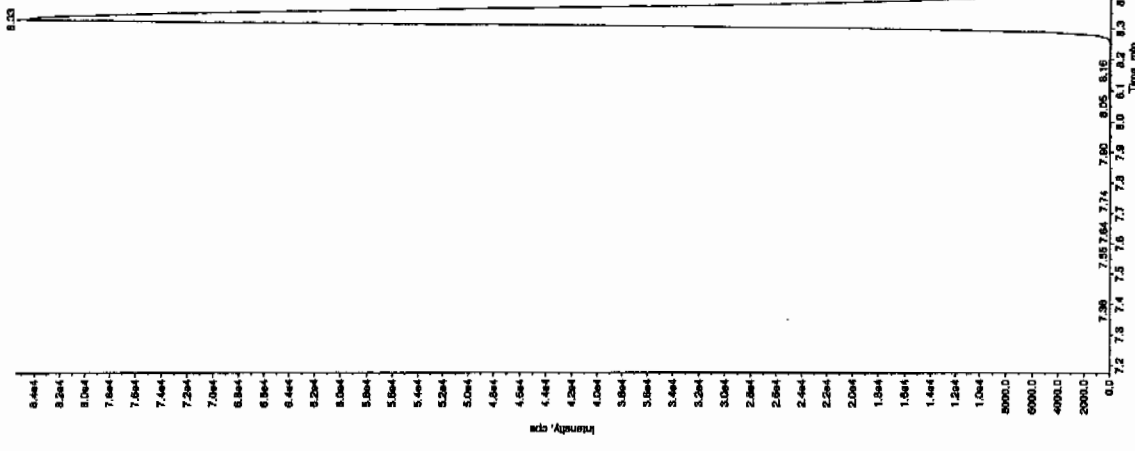
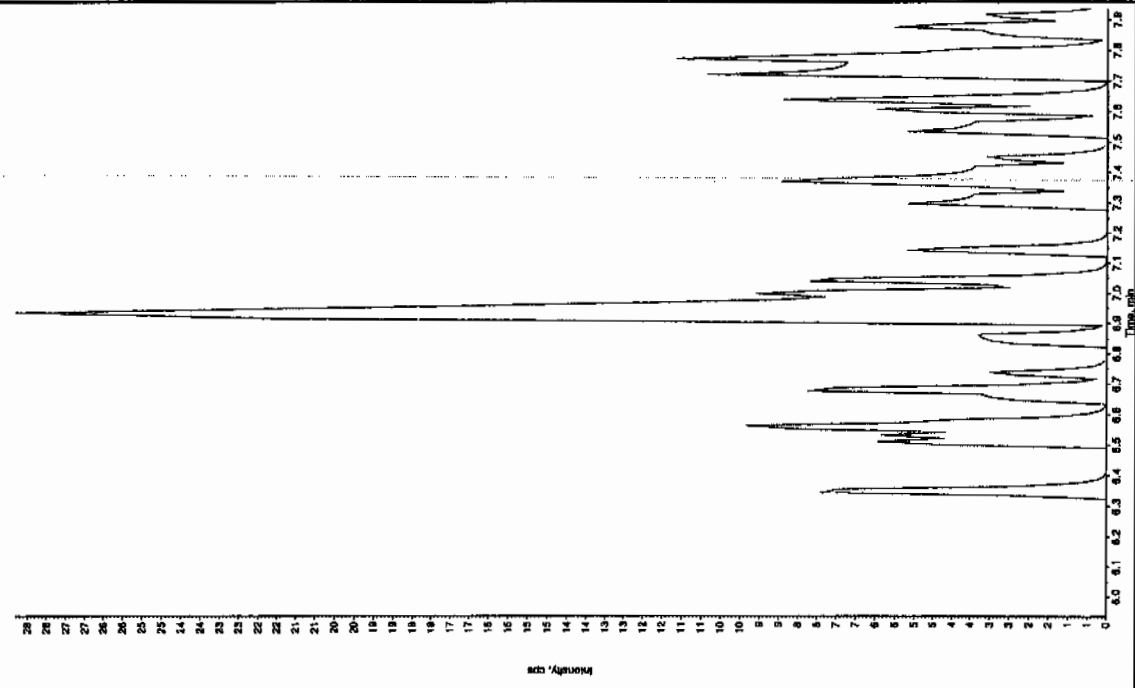
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 7:32:08 PM

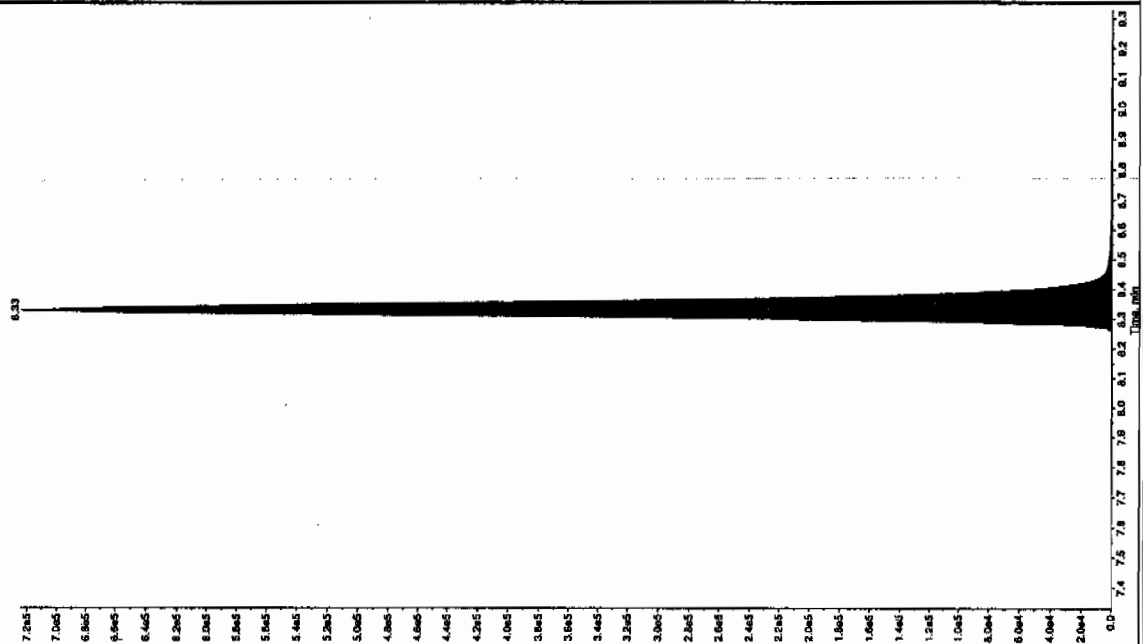
Modified: No



for 3/27/10

Sample Name: "247904007" Sample ID: "957702121" File: "EXS03220109.will"
 Peak Name: "25-Diamino-4-nitrobenzene" Mass(es): "185.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:12:08 PM
 Modified: No



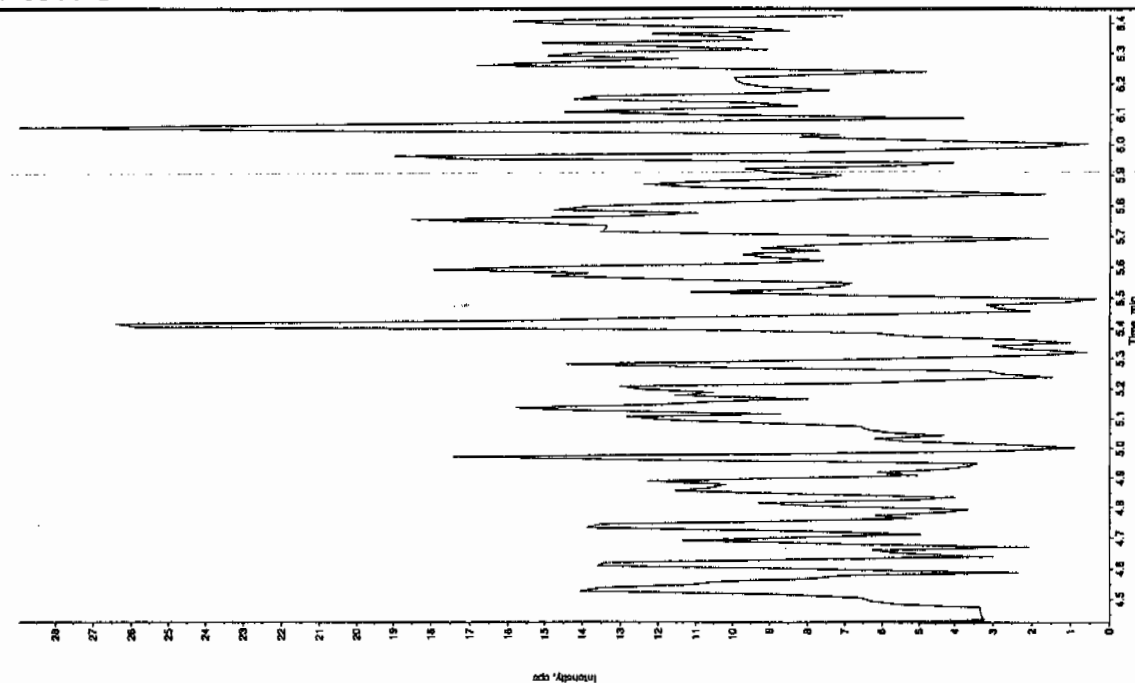
Sample Name: "247904007" Sample ID: "957702121" File: "EXS03220109.will"
 Peak Name: "25-Diamino-4-nitrobenzene" Mass(es): "185.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:12:08 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: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.68e+023 counts
 Height: 72410.400 cps
 Start Time: 8.24 min
 End Time: 8.66 min

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

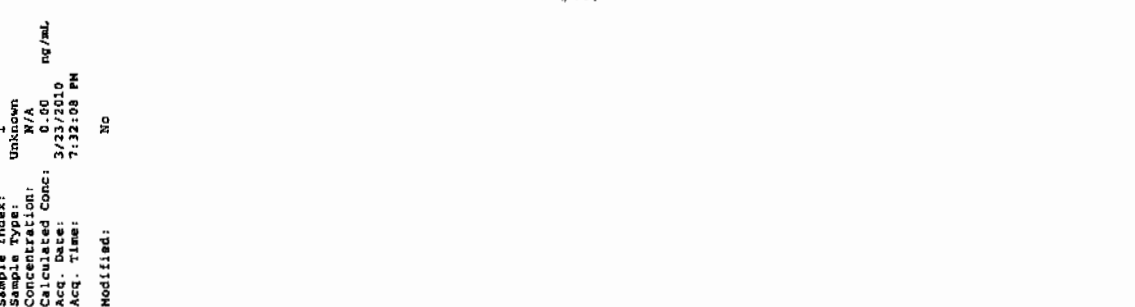
Sample Name: "247904007" Sample ID: "957702121" File: "EXS03220109.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:32:08 PM
 Modified: NO



Sample Name: "247904007" Sample ID: "957702121" File: "EXS03220109.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:32:08 PM
 Modified: NO



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8023

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408063a

Date Analyzed: 10-APR-10 04:04

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408063a

Date: 10-Apr-2010

Time: 04:04:41

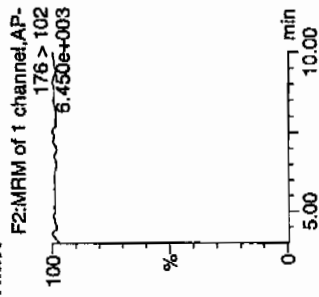
ID: 247904008

Vial: 2:6,F

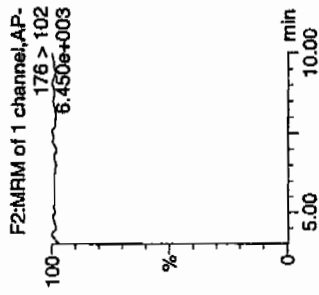
1477
4/10/10

1957702 / 2010 / 21

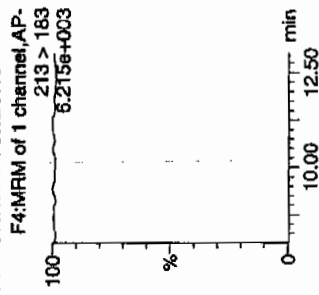
HMX



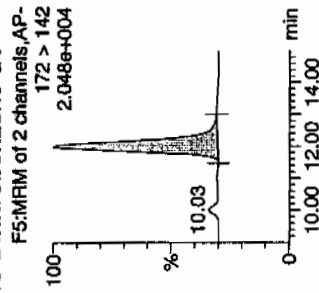
RDX



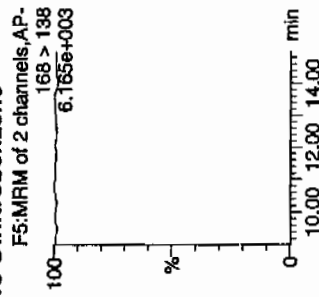
135-Trinitrobenzene



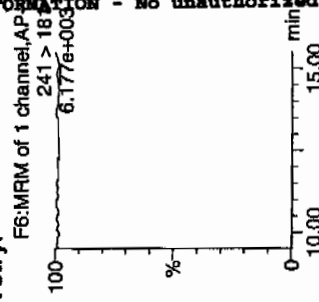
13-Dinitrobenzene-d4



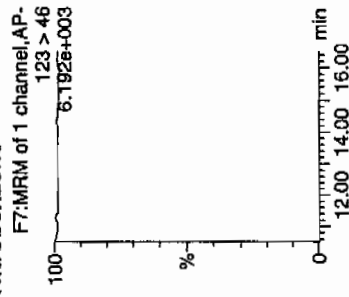
13-Dinitrobenzene



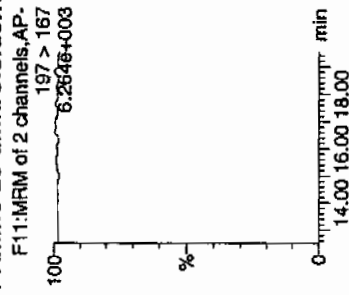
Tetryl



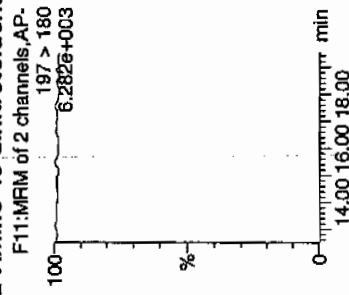
Nitrobenzene



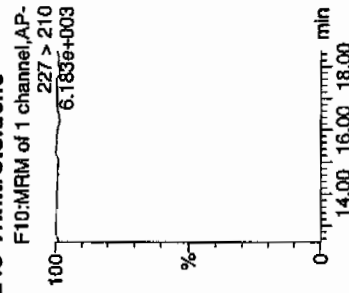
4-Amino-26-dinitrotoluene



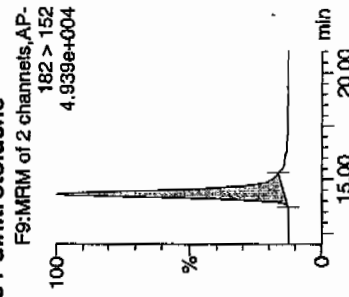
2-Amino-46-dinitrotoluene



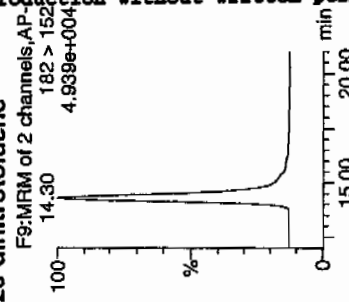
246-Trinitrotoluene



34-dinitrotoluene

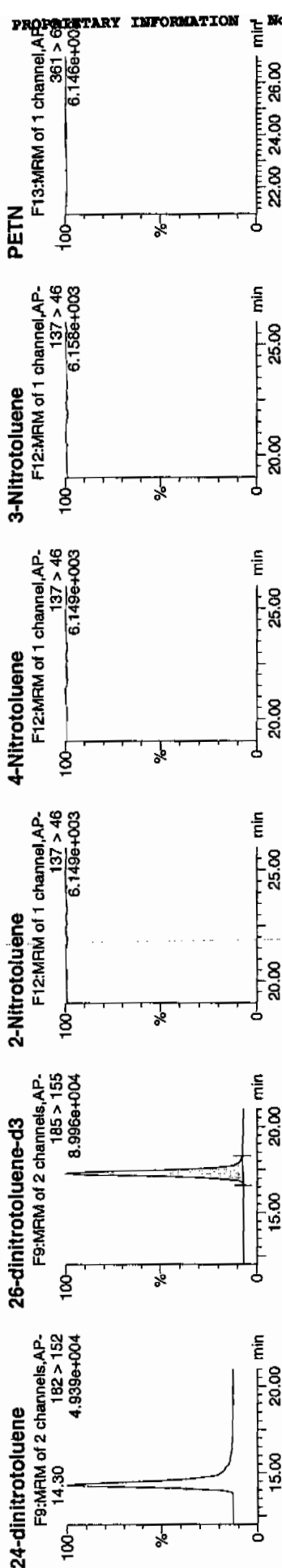


26-dinitrotoluene



4/11/10

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



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ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Prep Date	Prep Time	Dev	SN
247904008	HMX	176 > 102		5500.493										
247904008	RDX	176 > 102		5500.493										
247904008	135-Trinitrobenzene	213 > 183		5500.493										
247904008	13-Dinitrobenzene-d4	172 > 142	11.97	5500.493										
247904008	13-Dinitrobenzene	168 > 138		5500.493										
247904008	Tetryl	241 > 181		5500.493										
247904008	Nitrobenzene	123 > 46		34739.348										
247904008	4-Amino-26-dinitrotoluene	197 > 167		34739.348										
247904008	2-Amino-46-dinitrotoluene	197 > 180		34739.348										
247904008	246-Trinitrotoluene	227 > 210		34739.348										
247904008	34-dinitrotoluene	182 > 152	14.30	18470.170										
247904008	26-dinitrotoluene	182 > 152		34739.348										
247904008	24-dinitrotoluene	182 > 152		34739.348										
247904008	26-dinitrotoluene-d3	185 > 155		34739.348										
247904008	2-Nitrotoluene	137 > 46	17.29											
247904008	4-Nitrotoluene	137 > 46		34739.348										
247904008	3-Nitrotoluene	137 > 46		34739.348										
247904008	PETN	361 > 62		34739.348										

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8023

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220110.wiff

Date Analyzed: 23-MAR-10 19:47

Units: ug/kg

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

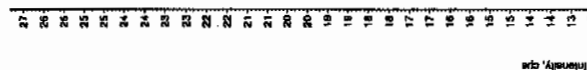
*Concentration =

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

kan 3/27/10

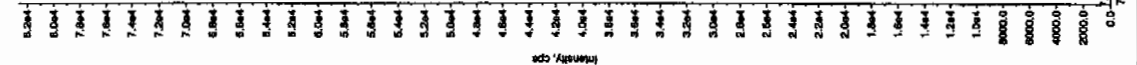
Sample Name: "247904008" Sample ID: "957702121" File: "EXS0320110.wif"
Peak Name: "1ATB" Mass(es): "257.2904.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 7:47:50 PM
Modified: No



Sample Name: "247904008" Sample ID: "957702121" File: "EXS0320110.wif"
Peak Name: "35-Orfentrolone" Mass(es): "182.046.0 amu"
Comment: "LCX832125" Annotation: ""

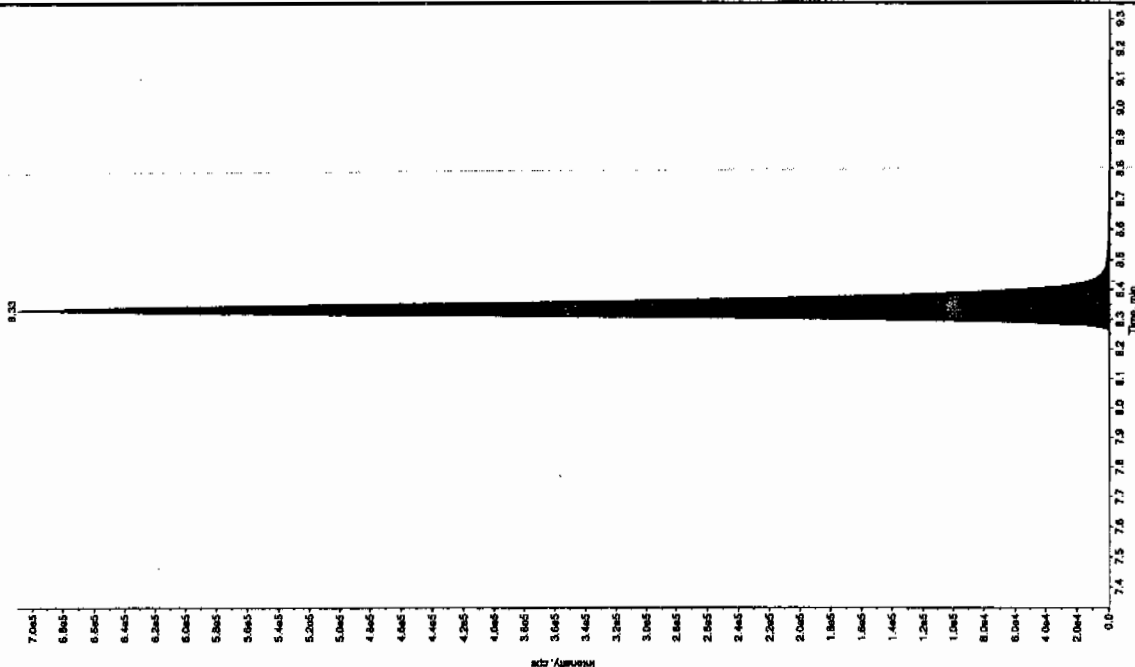
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 7:47:50 PM
Modified: No



kan 3/27/10

Sample Name: 247904008 Sample ID: 957702110 File: EX030220110.wiff
 Peak Name: 28-Diamino-4-nitrobenzene Mass(es): 166.046.0 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 7:47:50 PM
 Acq. Time: 7:47:50 PM
 Modified: No

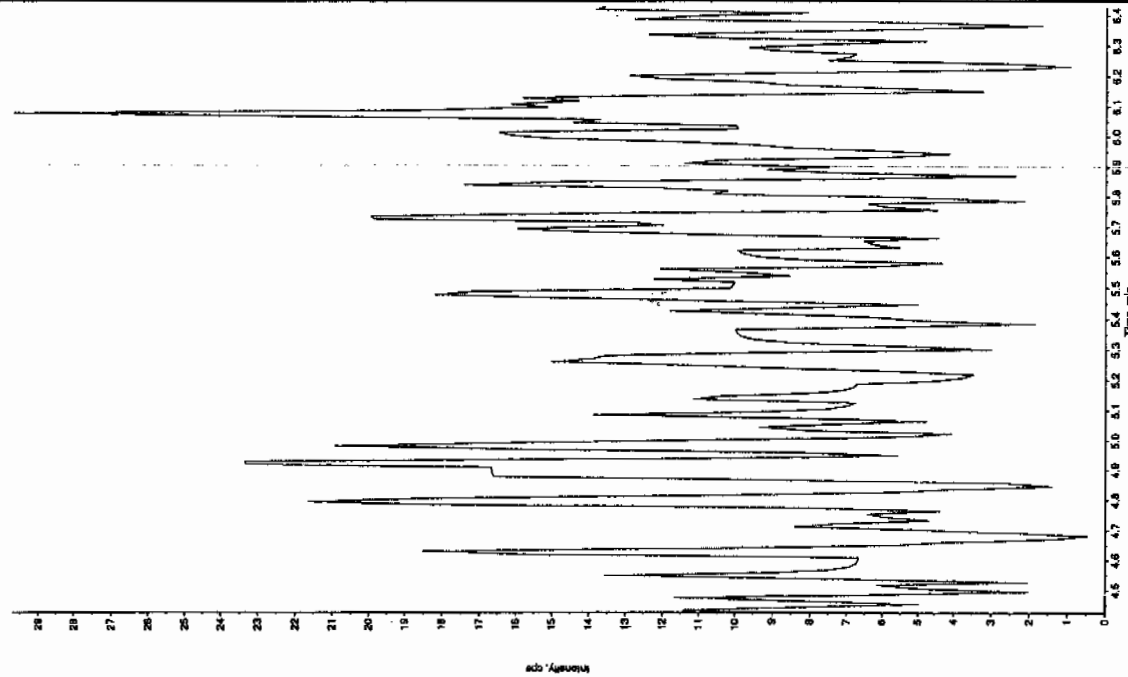


Sample Name: 247904008 Sample ID: 957702110 File: EX030220110.wiff
 Peak Name: 34-Dinitrobenzene Mass(es): 182.17511.9 amu
 Comment: LCX832125 Annotation: "

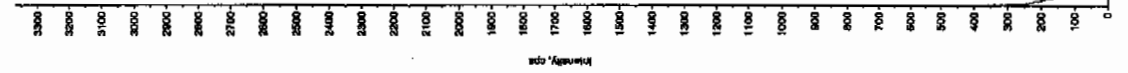
Sample Index: 1
 Sample Type: Unknown
 Concentration: 237. ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 7:47:50 PM
 Acq. Time: 7:47:50 PM
 Modified: No
 Proc. Algorithm: IntellQuan - IOL
 Min. Peak Height: 160.0 cps
 Min. Peak Width: 3.00 points
 Stochastic Width: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.59e+006 counts
 Height: 709669.995 cps
 Start Time: 8.24 min
 End Time: 8.69 min

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

Sample Name: "247904008" Sample ID: "95702210" File: "EX8303220110.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:47:50 PM
 Modified: No



Sample Name: "247904008" Sample ID: "95702210" File: "EX8303220110.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:47:50 PM
 Modified: No



Sample Name: "247904008" Sample ID: "95702210" File: "EX8303220110.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 7:47:50 PM
 Modified: No

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8020

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408064a

Date Analyzed: 10-APR-10 04:34

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408064a

Date: 10-Apr-2010

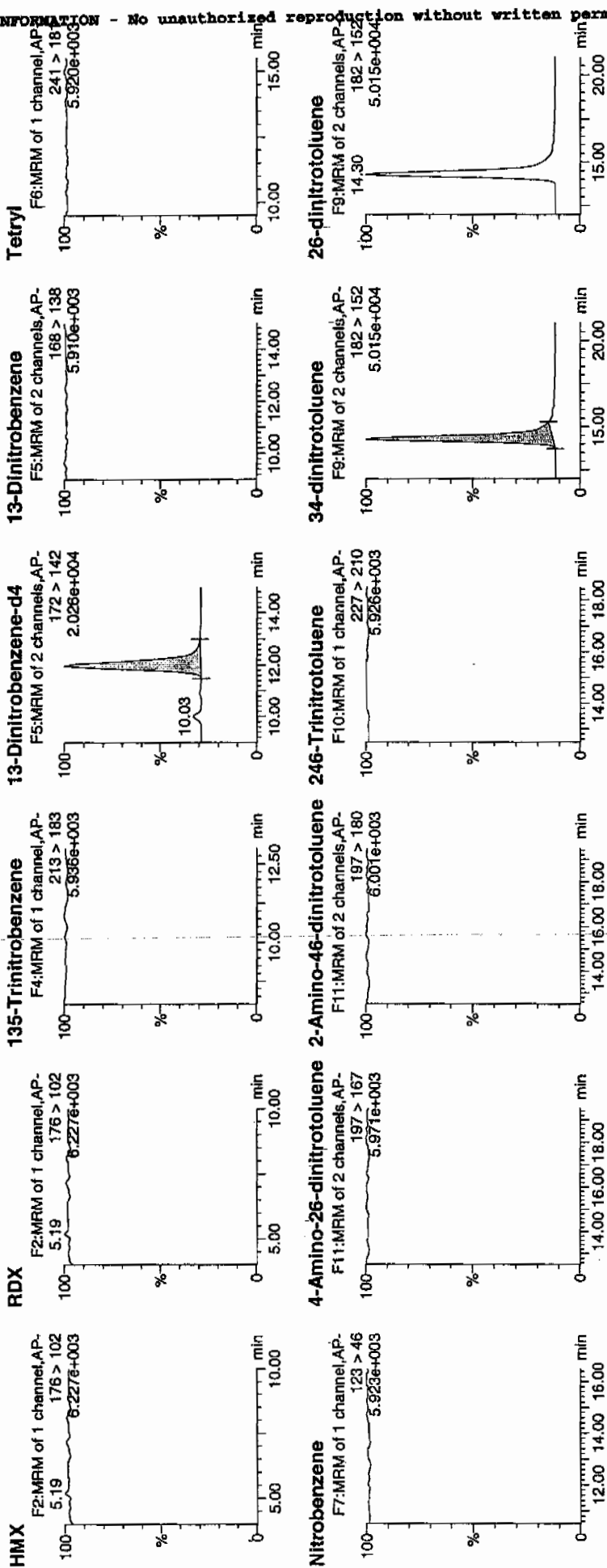
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ID: 247904009

Vial: 2:7.A

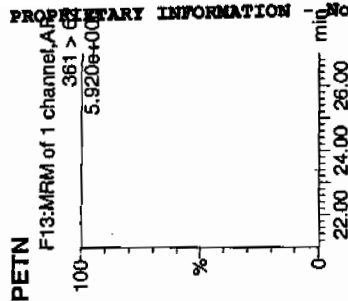
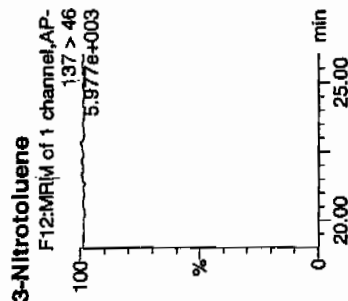
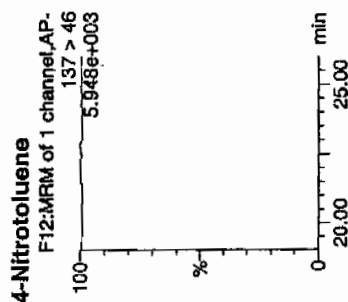
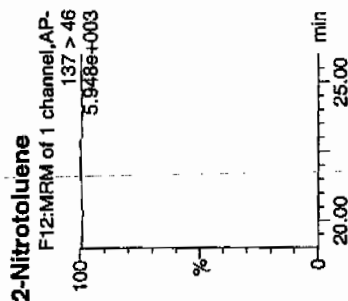
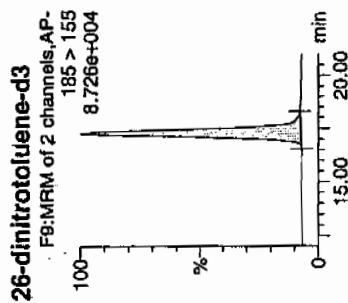
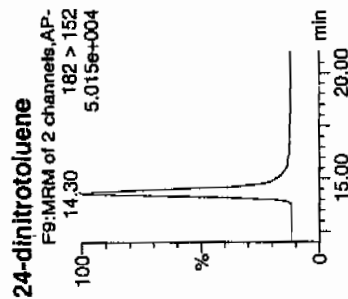
not
2/4/10

WAV/957702 / 2002 / 2



AMP
194/11/10

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

[illegible]

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8020

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220111.wiff

Date Analyzed: 23-MAR-10 20:03

Units: ug/kg

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

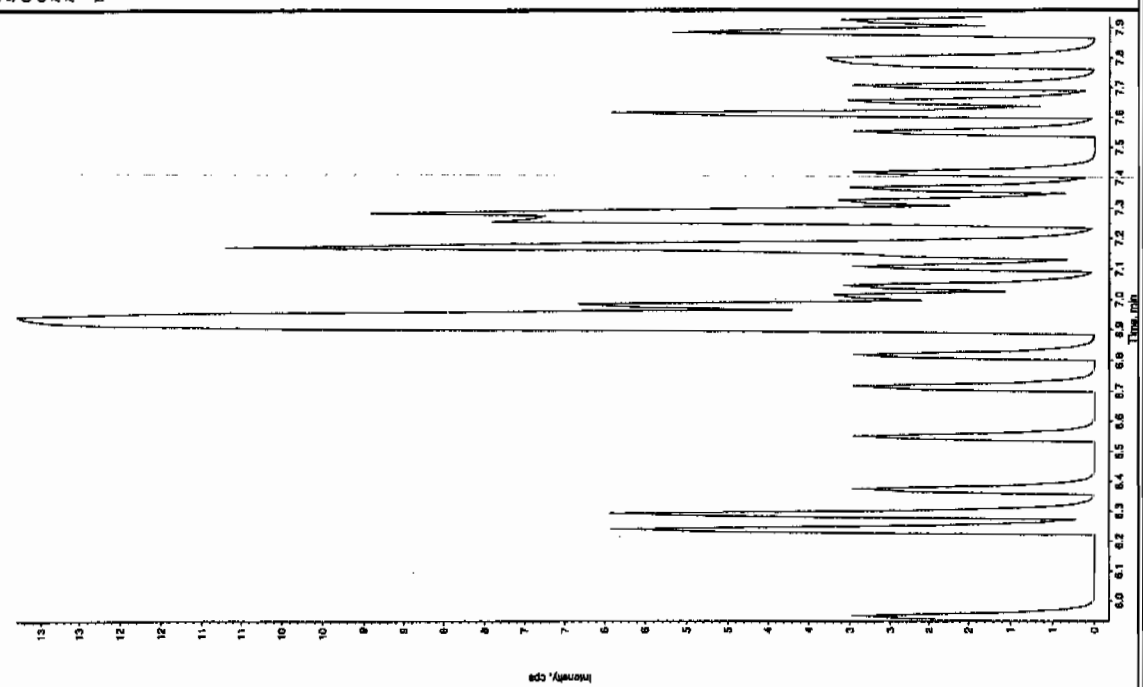
*Concentration =

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

LC# 312710

Sample Name: "247904005" Sample ID: "957702121" File: "EX903220111.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCX832125" Annotation: "

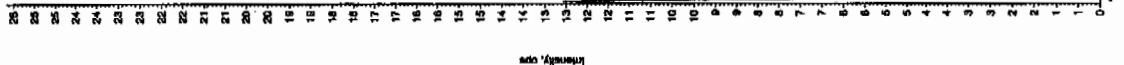
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 8:03:32 PM
Modified: No



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

Sample Name: "247804009" Sample ID: "957022111" File: "EX503220111.wif"
 Peak Name: "26-Diamino-4-Phenylthio" Mass(es): "156.046.0 amu"
 Comment: "LX632125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:03:32 PM
 Modified: No

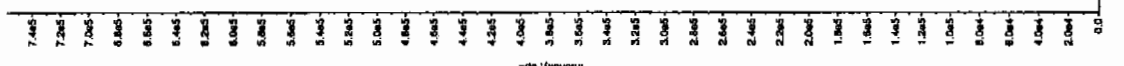


Sample Name: "247804009" Sample ID: "957022111" File: "EX503220111.wif"
 Peak Name: "14-Diaminotoluene" Mass(es): "182.151.9 amu"
 Comment: "LX632125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 254. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:03:32 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: 8.33 min
 Use Relative RT: No

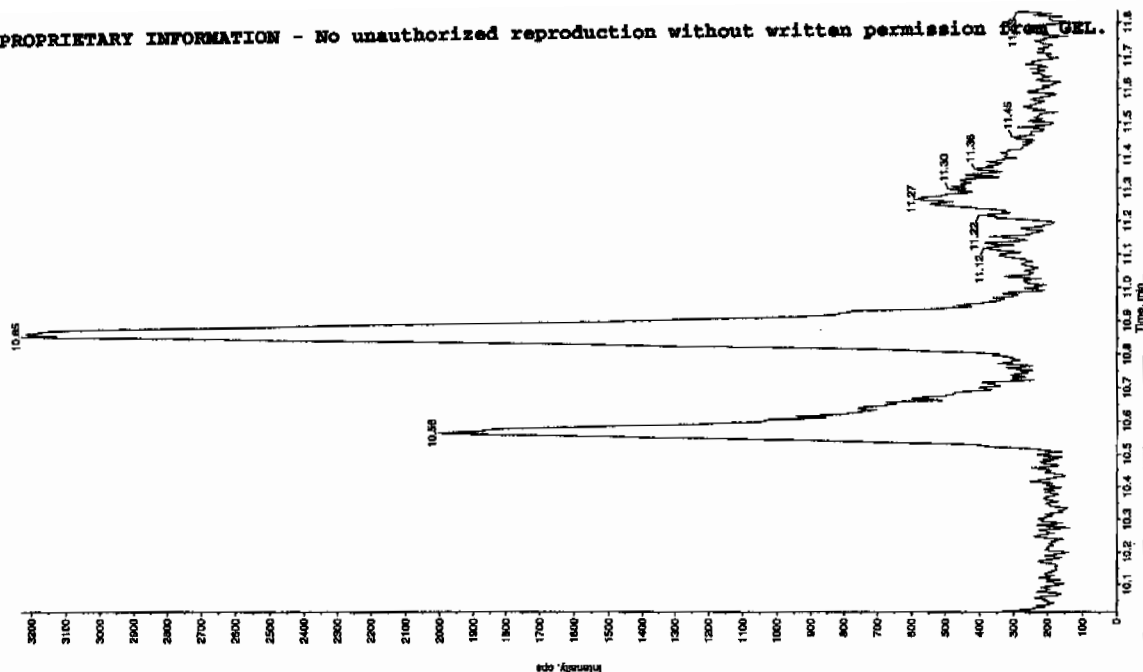
Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.78e+006 counts
 Height: 717993.286 cps
 Start Time: 8.24 min
 End Time: 8.41 min



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

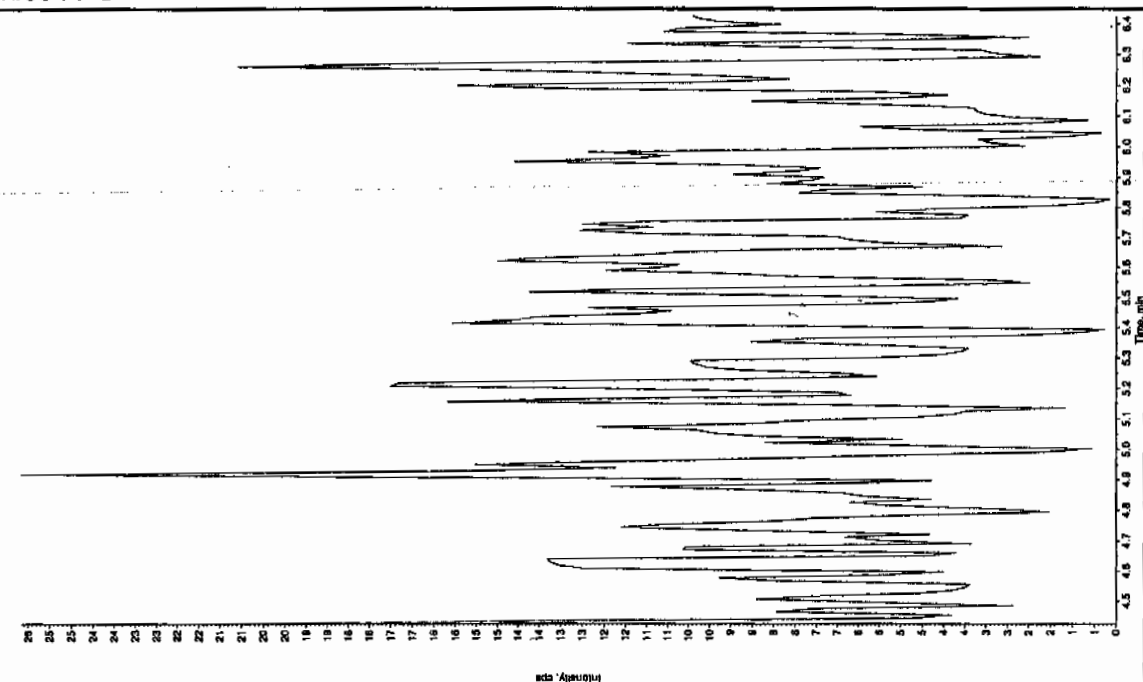
Sample Name: "247904009" Sample ID: "9570221ER" File: "EXS03220111.wif"
 Peak Name: "tris(o-cresyl) phosphates" Mass(es): "352.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:03:32 PM
 Modified: No



Sample Name: "247904009" Sample ID: "9570221ER" File: "EXS03220111.wif"
 Peak Name: "24-Diamino-6-nitrochlorine" Mass(es): "185.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:03:32 PM
 Modified: No



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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8018

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408065a

Date Analyzed: 10-APR-10 05:03

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408065a

Date: 10-Apr-2010

Time: 05:03:40

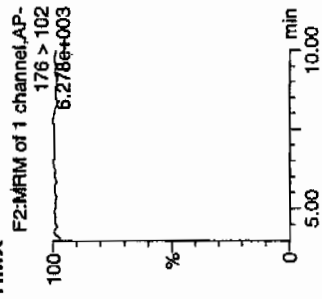
ID: 247904010

Vial: 2:7,B

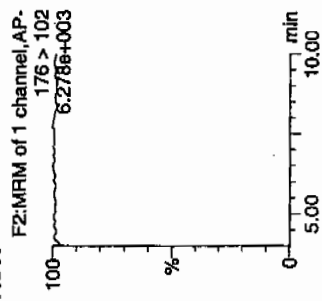
4/10/10

247904010 / 247904010 / 247904010

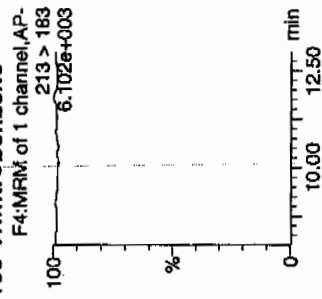
HMX



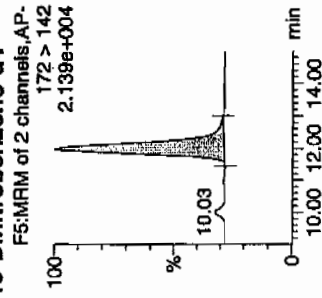
RDX



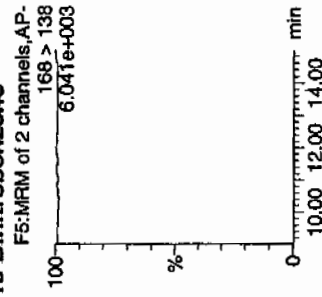
135-Trinitrobenzene



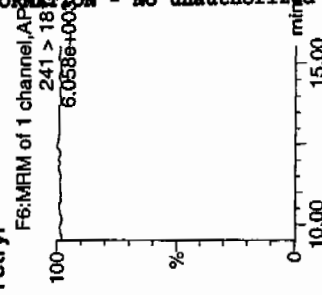
13-Dinitrobenzene-d4



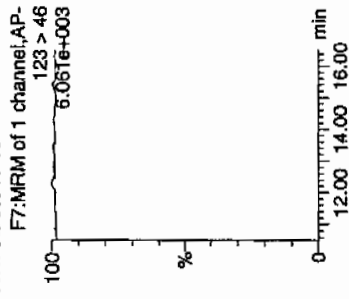
13-Dinitrobenzene



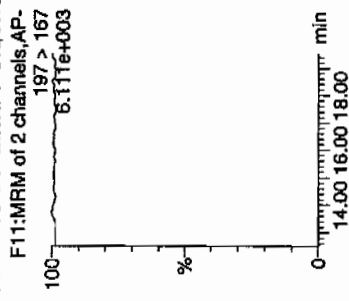
Tetryl



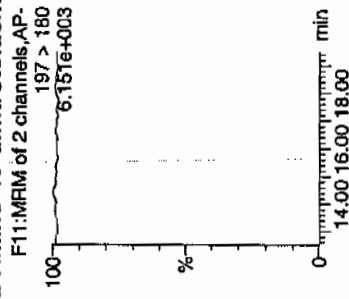
Nitrobenzene



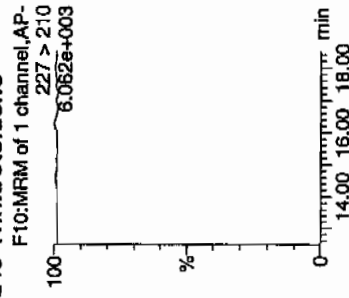
4-Amino-26-dinitrotoluene



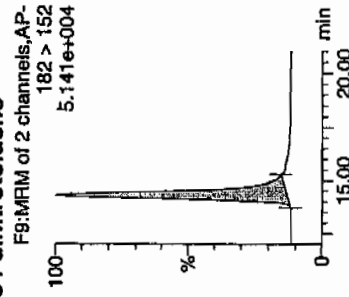
2-Amino-46-dinitrotoluene



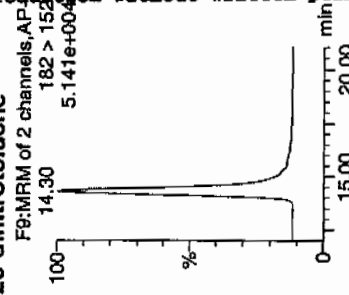
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



4/11/10

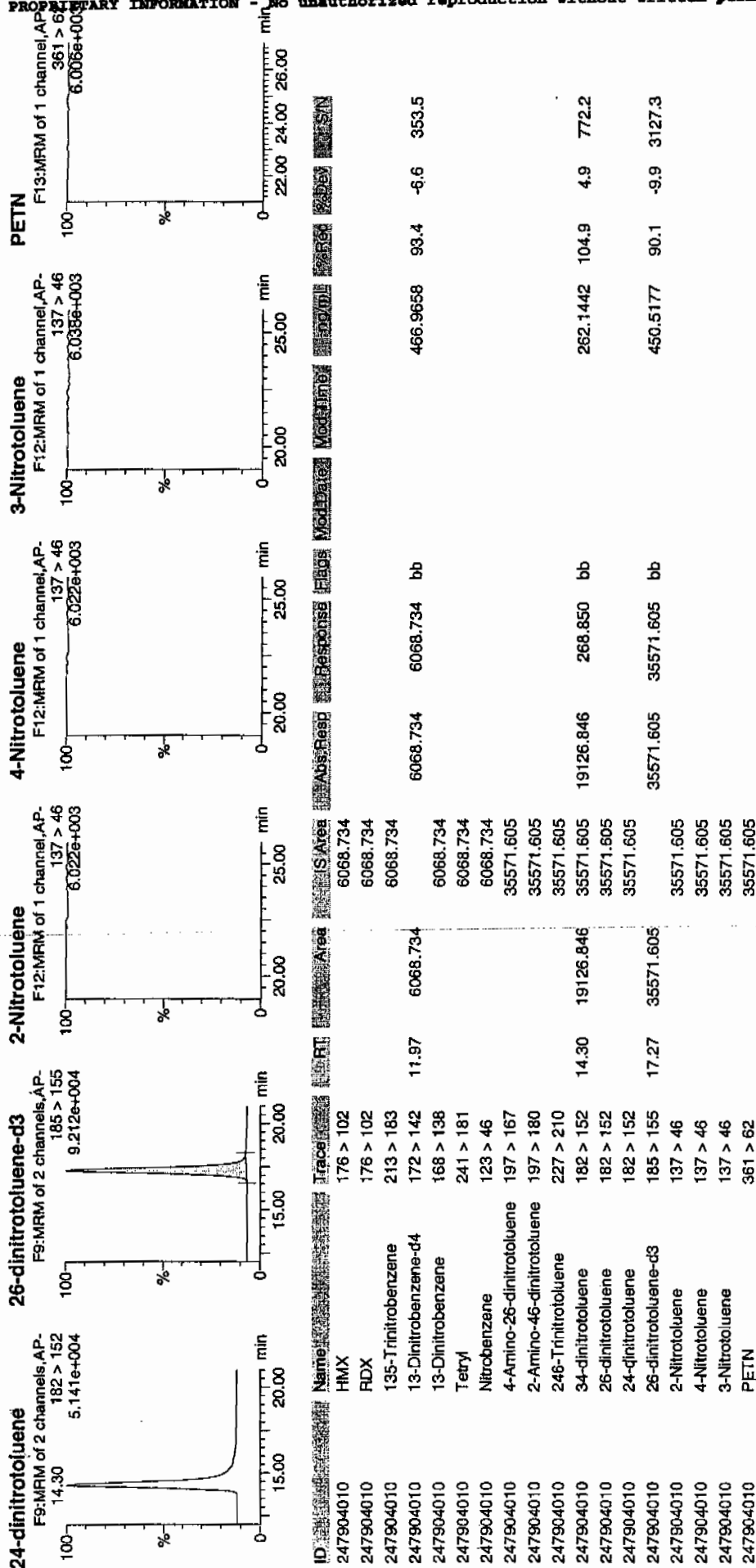
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 80 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8018

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220112.wiff

Date Analyzed: 23-MAR-10 20:19

Units: ug/kg

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

*Concentration =

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

LAN 312710

Sample Name: "247904010" Sample ID: "95702021" File: "EXS03220112.wif"

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

Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown

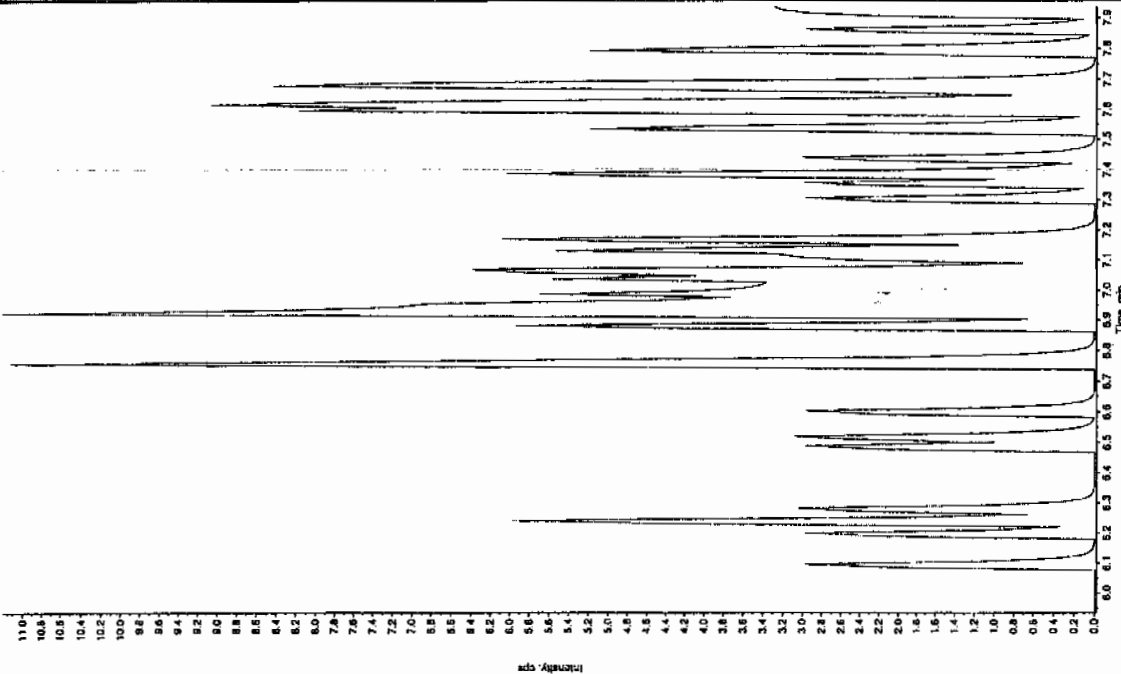
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/23/2010

Acq. Time: 8:19:15 PM

Modified: No



Sample Name: "247904010" Sample ID: "95702021" File: "EXS03220112.wif"

Peak Name: "TATB" Mass(es): "257.2004.9 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/23/2010

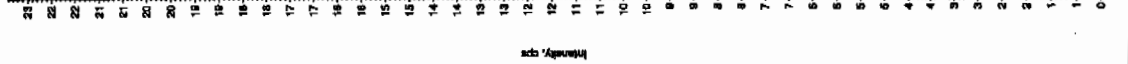
Acq. Time: 8:19:15 PM

Modified: No

Sample Name: 2479040107 Sample ID: 9577022121.ER File: EXS022012.wif
 Peak Name: 26-Diamino-4-nitrofluorene Mass(es): 166.046.0 amu
 Comment: LCX832125' Amulation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:19:15 PM
 Modified: No

Intensity, cps

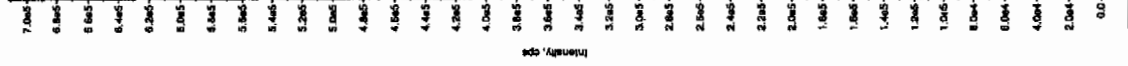


Sample Name: 2479040107 Sample ID: 9577022121.ER File: EXS022012.wif
 Peak Name: 34-Diamino-4-nitrofluorene Mass(es): 182.1715.9 amu
 Comment: LCX832125' Amulation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 241. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:19:15 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: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.26 min
 Peak Height: 2.64e+004 counts
 Start Time: 8.26 min
 End Time: 8.73 min

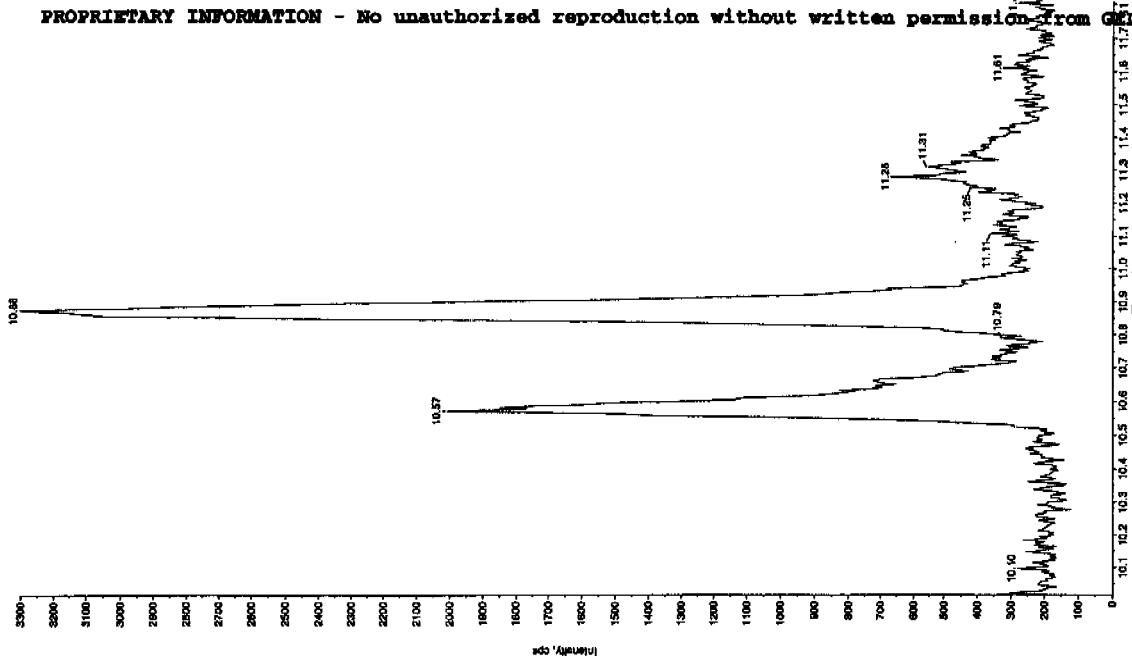
Intensity, cps



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

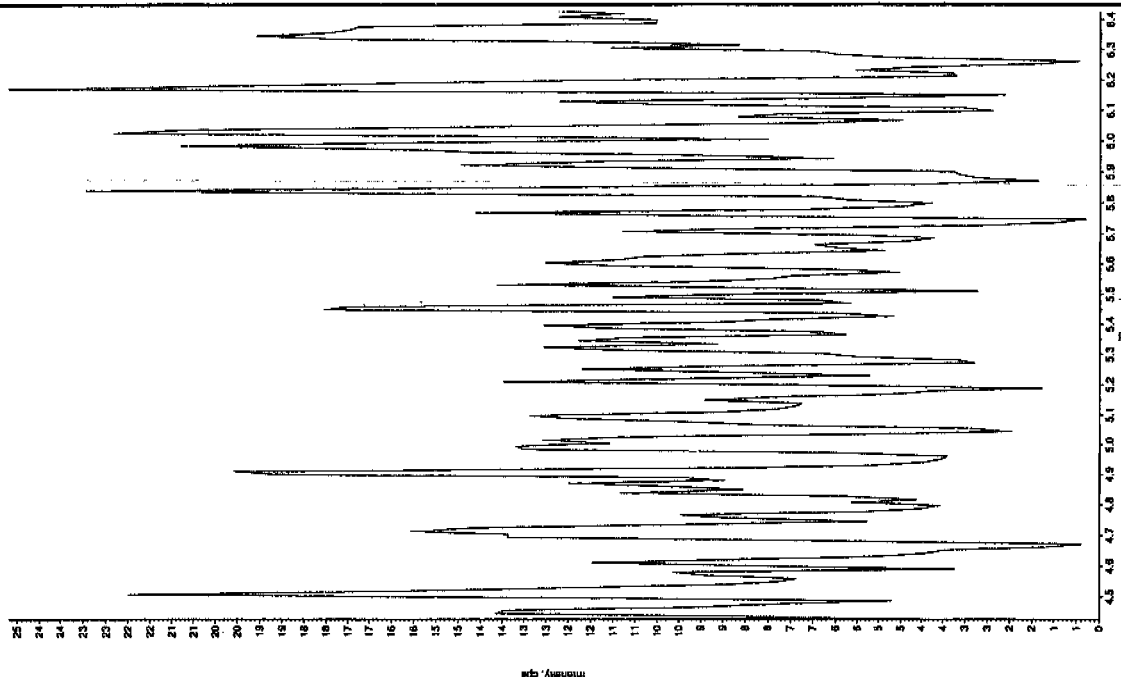
Sample Name: "247904010" Sample ID: "957702212" File: "EXS03220112.wif"
 Peak Name: "bis(2-chlorophenyl) phosphine" Mass(es): 385.191.0 amu
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:19:15 PM
 Modified: No



Sample Name: "247904010" Sample ID: "957702212" File: "EXS03220112.wif"
 Peak Name: "2,4-Dinitro-6-nitrofluorene" Mass(es): 166.046.0 amu
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:19:15 PM
 Modified: No



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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8015

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408066a

Date Analyzed: 10-APR-10 05:33

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408066a

Date: 10-Apr-2010

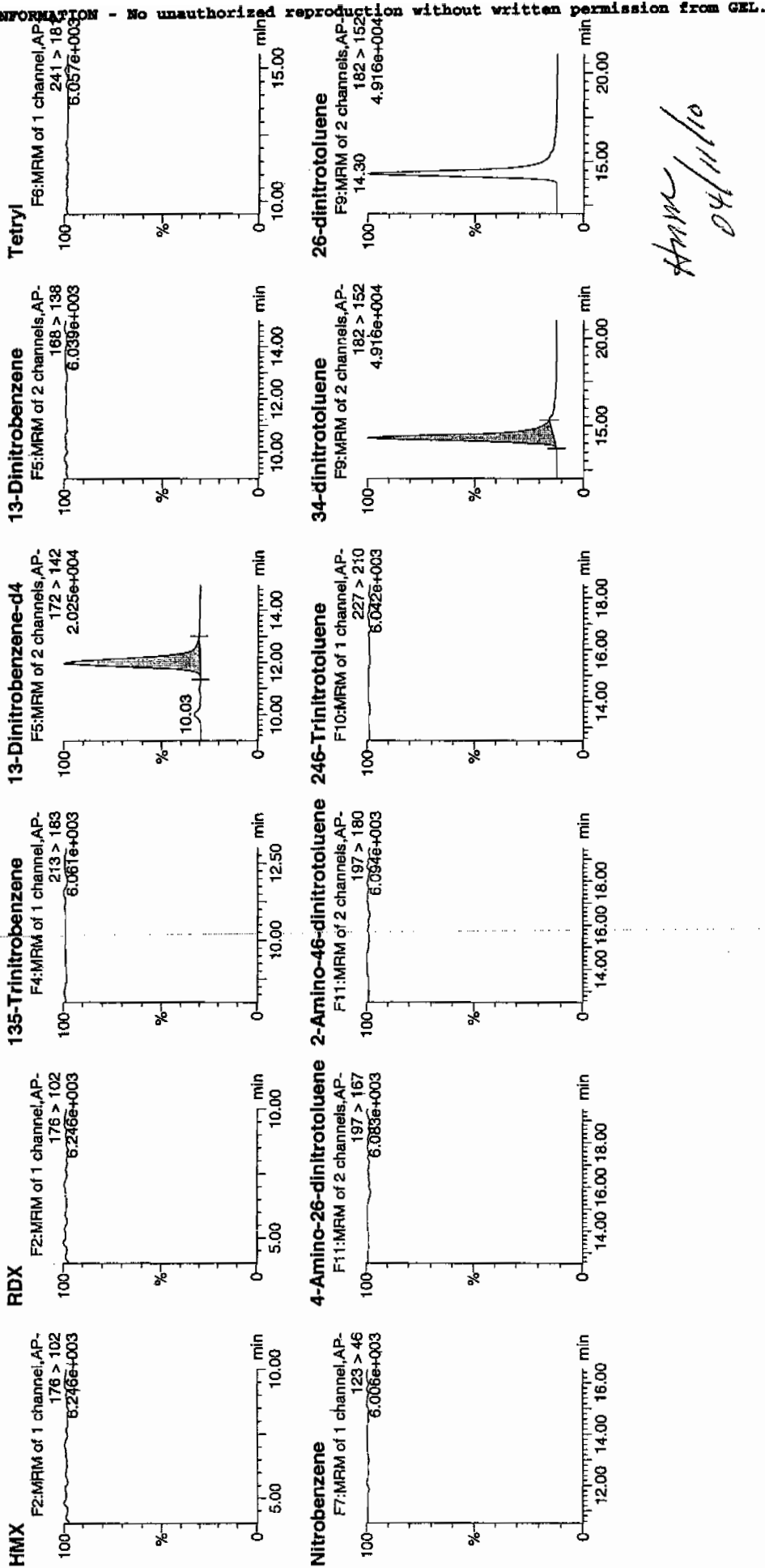
Time: 05:33:11

ID: 247904011

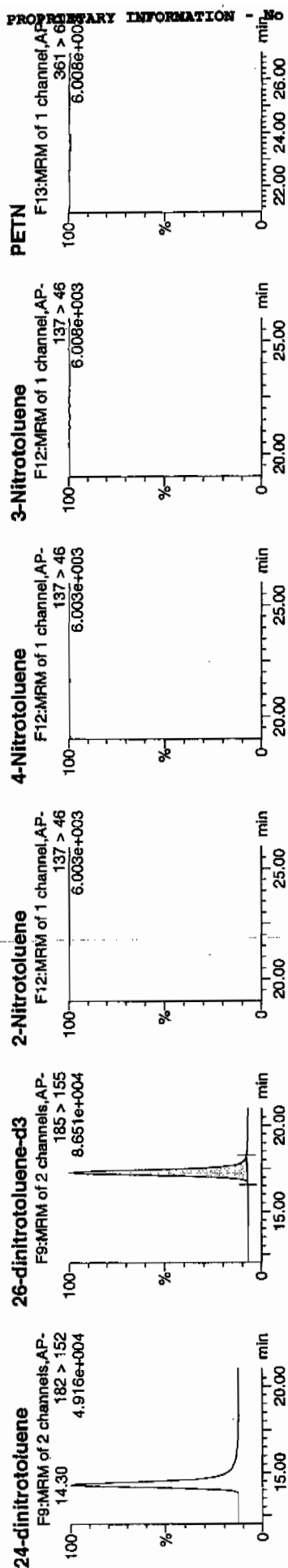
Vial: 2:7,C

4077
4/10/10

Handwritten notes: *Handwritten signature/initials*



Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	RT	Area	%Area	Abs. Resp	Response	Flags	Mod Data	Mod Time	Mod Date	%Rec	%Dev	SN
247904011	HNX	176 > 102			5560.685									
247904011	RDX	176 > 102			5560.685									
247904011	135-Trinitrobenzene	213 > 183			5560.685									
247904011	13-Dinitrobenzene-d4	172 > 142	11.97	5560.685		5560.685	5560.685	bb		427.8734	85.6	-14.4	416.9	
247904011	13-Dinitrobenzene	168 > 138			5560.685									
247904011	Tetryl	241 > 181			5560.685									
247904011	Nitrobenzene	123 > 46			5560.685									
247904011	4-Amino-26-dinitrotoluene	197 > 167			33052.340									
247904011	2-Amino-46-dinitrotoluene	197 > 180			33052.340									
247904011	246-Trinitrotoluene	227 > 210			33052.340									
247904011	34-dinitrotoluene	182 > 152	14.30	18309.912	33052.340	18309.912	276.984	bb		270.0750	108.0	8.0	887.0	
247904011	26-dinitrotoluene	182 > 152			33052.340									
247904011	24-dinitrotoluene	182 > 152			33052.340									
247904011	26-dinitrotoluene-d3	185 > 155	17.29	33052.340		33052.340	33052.340	bb		418.6110	83.7	-16.3	2603.2	
247904011	2-Nitrotoluene	137 > 46			33052.340									
247904011	4-Nitrotoluene	137 > 46			33052.340									
247904011	3-Nitrotoluene	137 > 46			33052.340									
247904011	PETN	361 > 62			33052.340									

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8015

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220113.wiff

Date Analyzed: 23-MAR-10 20:34

Units: ug/kg

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

*Concentration =

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

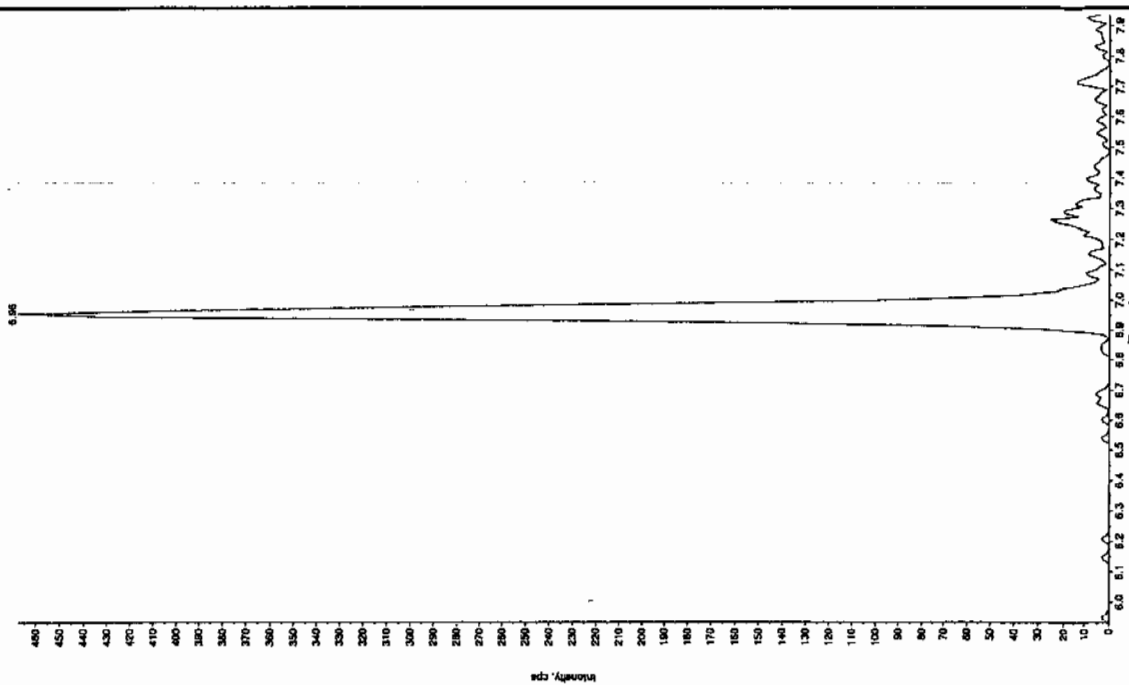
for 3/27/10

Sample Name: "247904011" Sample ID: "957702121.ER" File: "EXS03220113.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:34:55 PM
 Modified: No



Sample Name: "247904011" Sample ID: "957702121.ER" File: "EXS03220113.wif"

Peak Name: "TATB" Mass(es): "257.20204.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:34:55 PM
 Modified: No



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

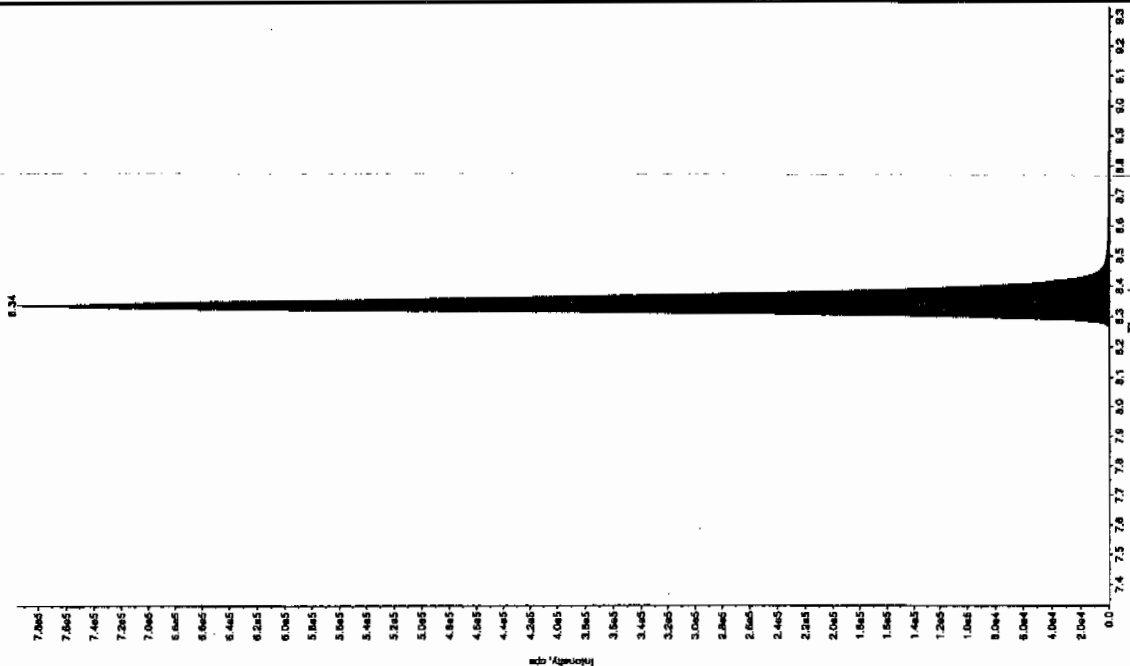
Sample Name: 247904011 Sample ID: 957702121ER File: EXS03220113.wif
 Peak Name: 25-Olantho-4-nitrobenzene Mass(es): 165.046.0 amu
 Comment: LCX832125 Annotation: -

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 mg/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 8:34:56 PM
 Acq. Time: 8:34:56 PM
 Modified: No



Sample Name: 247904011 Sample ID: 957702121ER File: EXS03220113.wif
 Peak Name: 34-Dinitrobenzene Mass(es): 182.1151.9 amu
 Comment: LCX832125 Annotation: -

Sample Index: 1
 Sample Type: Unknown
 Concentration: 263. ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 8:34:56 PM
 Acq. Time: 8:34:56 PM
 Modified: No
 Proc. Algorithm: InCellQuan - IQA
 Min. Peak Height: 180.0 cps
 Min. Peak Width: 3.0 sec
 Search Width: 3.0 sec
 RT Window: 15.0 min
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 2.87e+006 counts
 Height: 795444.031 cps
 Start Time: 8.24 min
 End Time: 8.77 min



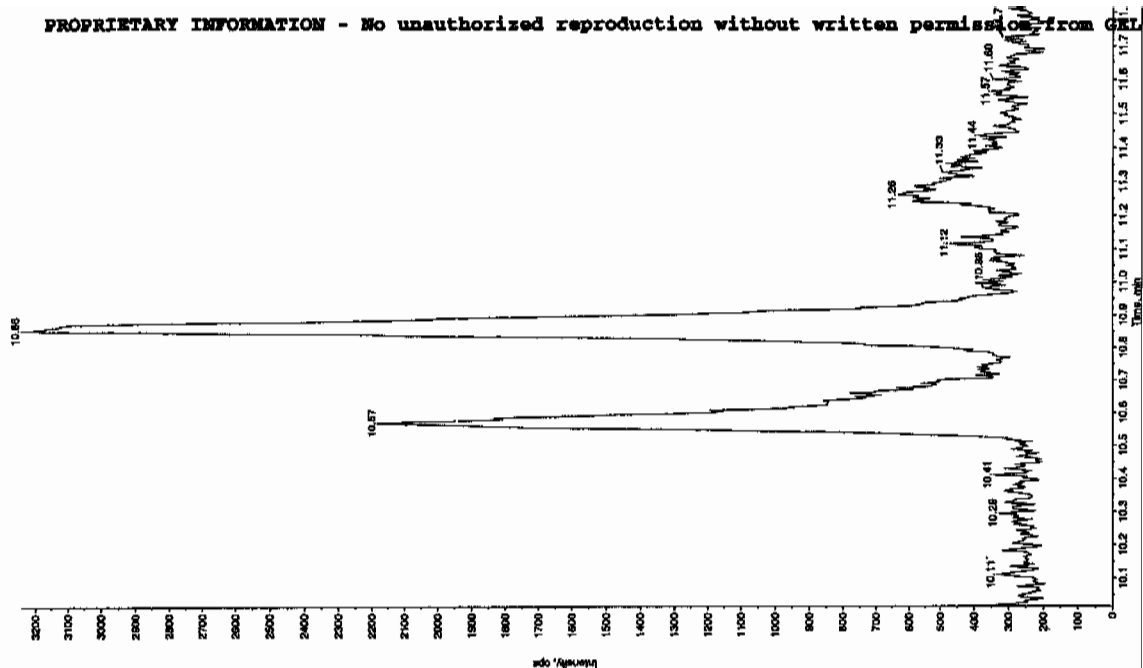
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "24780401" Sample ID: "957702121" File: "EX503220113.wif"

Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.1/91.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:34:55 PM
 Modified: No

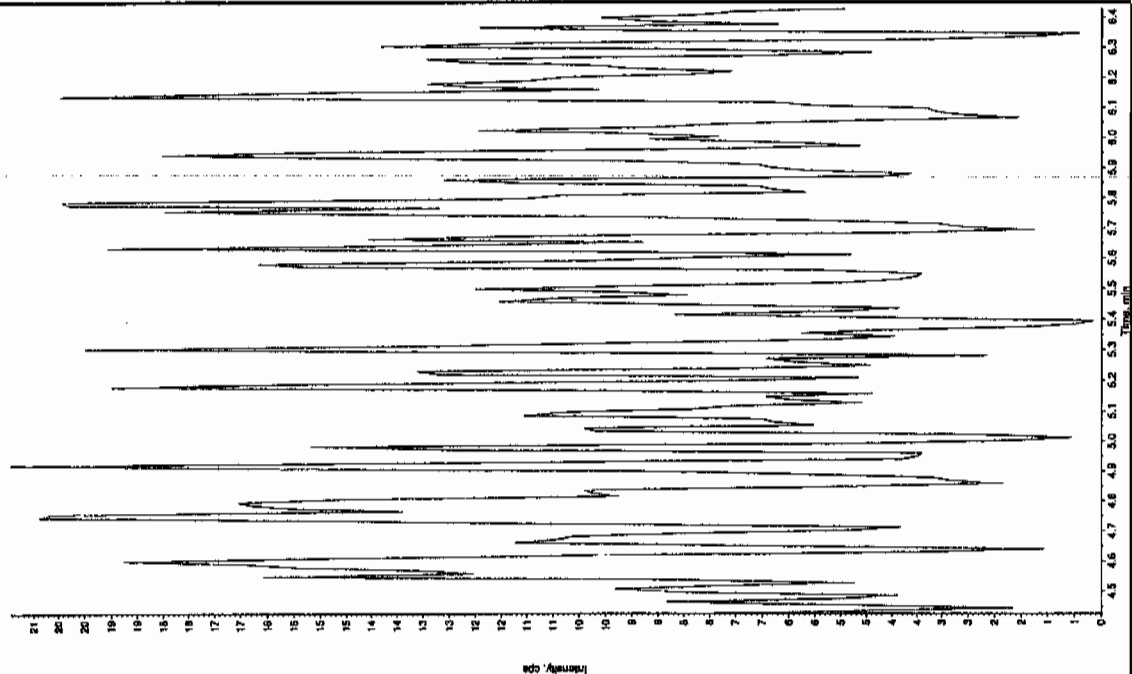


Sample Name: "24780401" Sample ID: "957702121" File: "EX503220113.wif"

Peak Name: "24-Dinitro-6-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: 3/23/2010
 Acq. Time: 8:34:55 PM
 Modified: No



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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8021

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408067a

Date Analyzed: 10-APR-10 06:02

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408067a

Date: 10-Apr-2010

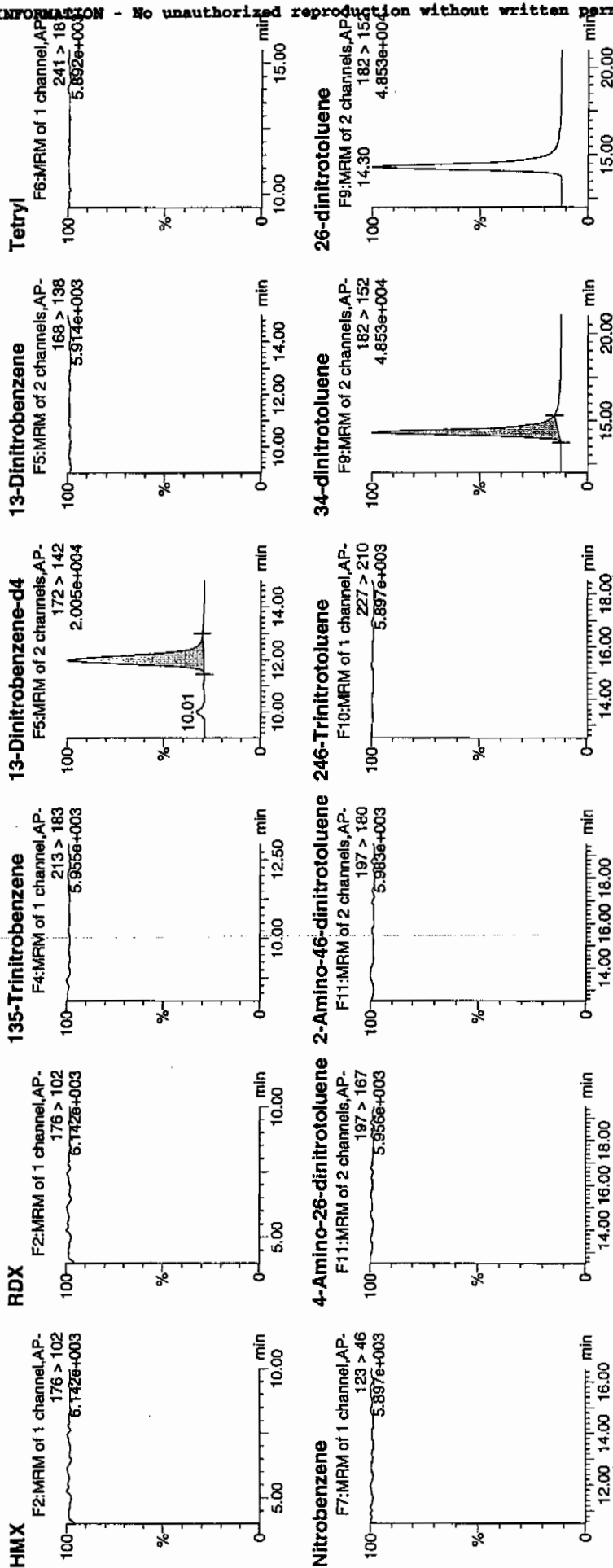
Time: 06:02:41

ID: 247904012

Vial: 2:7,D

4/10/10

WAL / 957702 / 8000 / 21



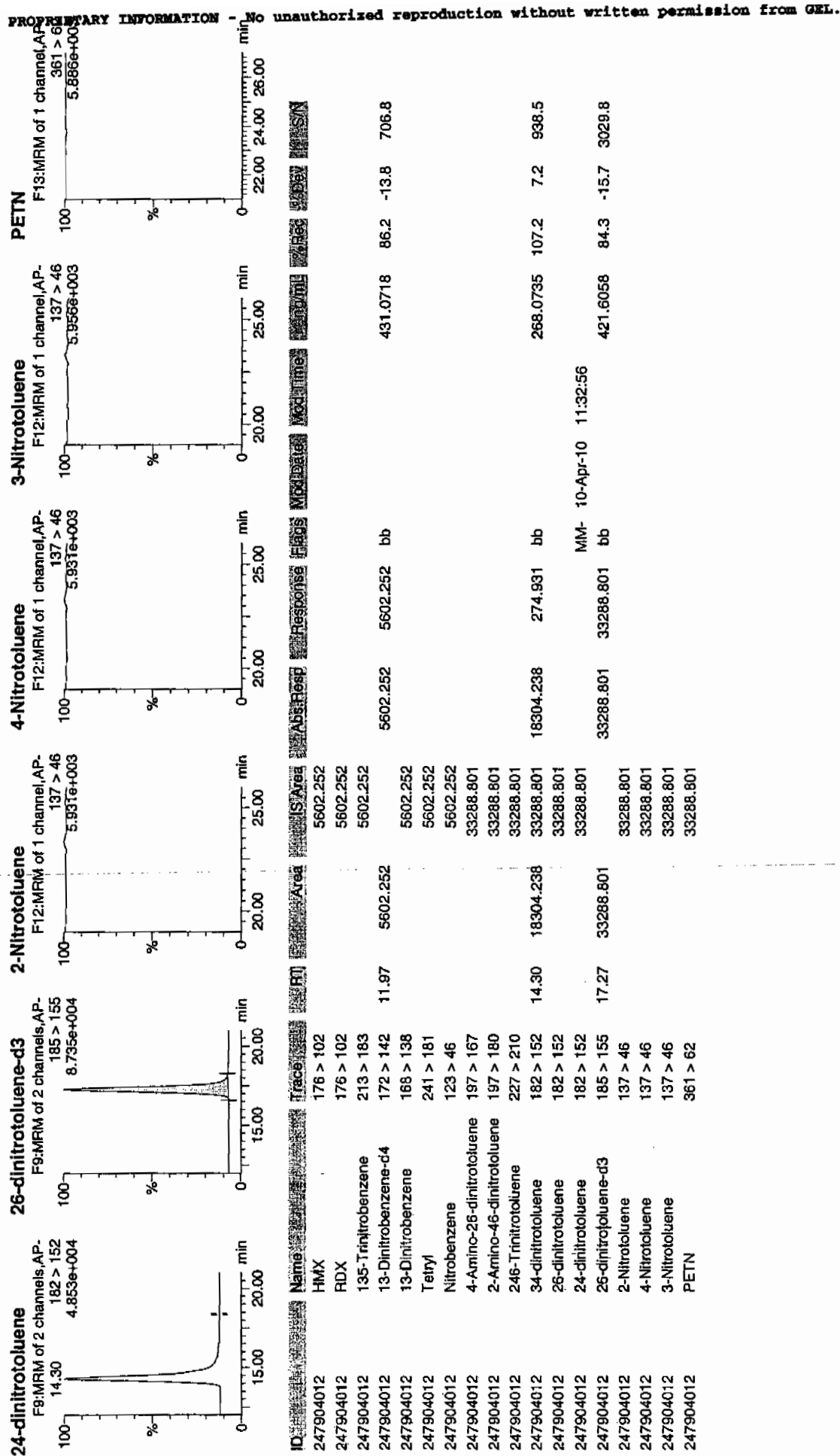
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 84 of 99

Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8021

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220114.wiff

Date Analyzed: 23-MAR-10 20:50

Units: ug/kg

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

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

dan 3/23/10

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Sample Name: "247904012" Sample ID: "95702021ER" File: "EXS0020114.wif"

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

Comment: "LCX032125" Annotation: "

Sample Index: 1

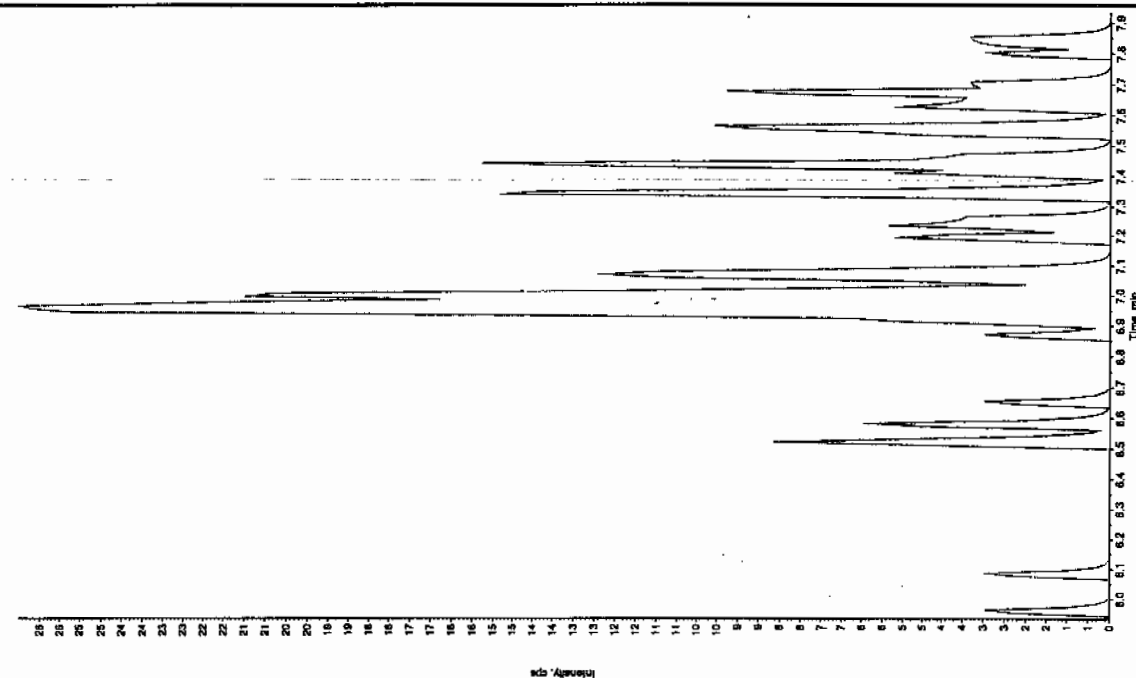
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 8:50:38 PM

Modified: No

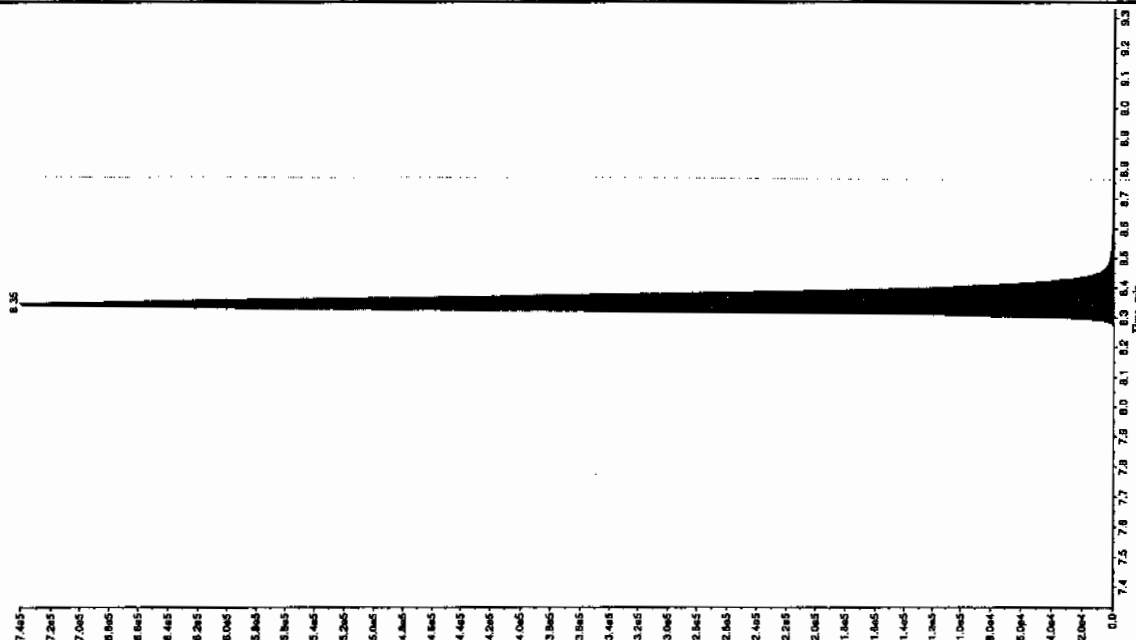


dan 03/29/10

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

Sample Name: '247904012' Sample ID: '9570201ER' File: 'EXS03220114.wif'
 Peak Name: '26-Diamino-4-nitrobenzene' Mass(es): '166.046.0 amu'
 Comment: 'LCX63212S' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Concentrated Conc: 3/23/2010 ng/mL
 Acq. Date: 8:50:38 PM
 Acq. Time: 8:50:38 PM
 Modified: No



Proc. Algorithm: Intelliluman - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Peak Height: 2.77e+006 counts
 Start Time: 8.26 min
 End Time: 8.73 min

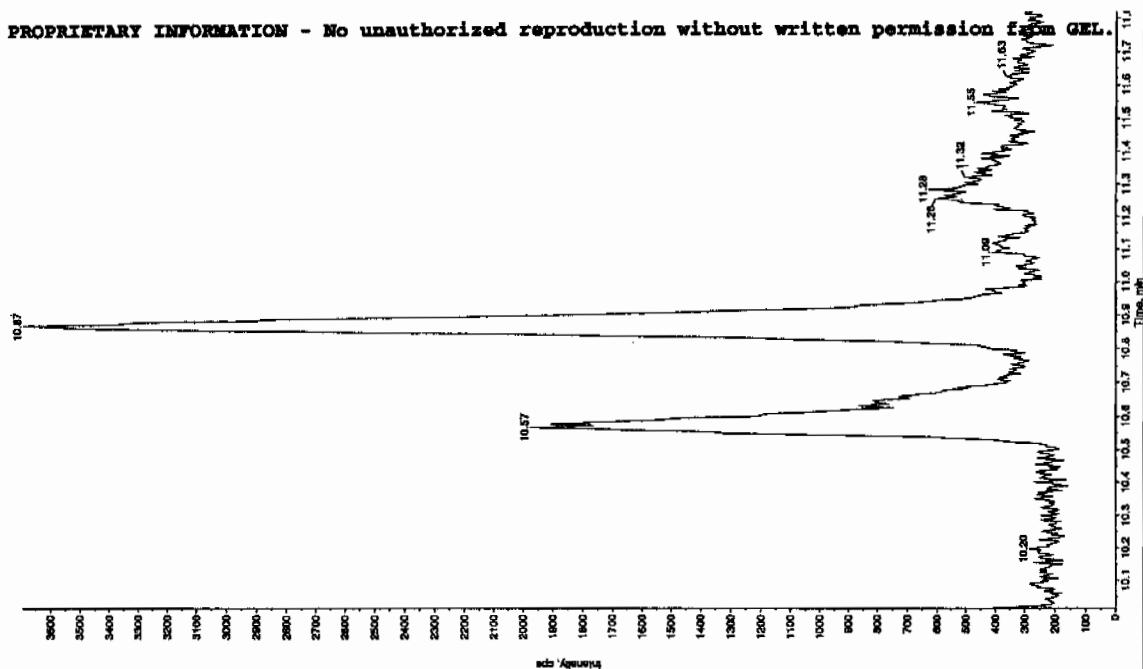
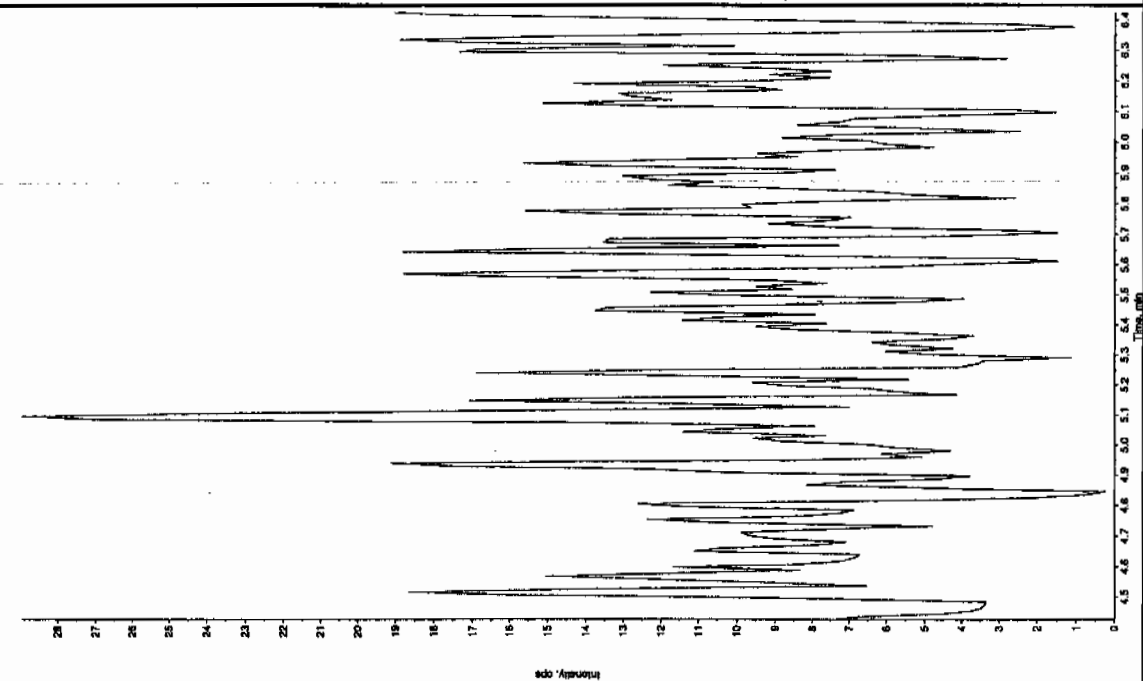
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "247904012" Sample ID: "9577020114.wdl"
 Peak Name: "24-Diamino-5-nitroethane" Mass(es): "168.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:50:38 PM
 Modified: No

Sample Name: "247904012" Sample ID: "9577020114.wdl"
 Peak Name: "24-Diamino-5-nitroethane" Mass(es): "168.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:50:38 PM
 Modified: No



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8024

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408068a

Date Analyzed: 10-APR-10 06:32

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408068a

Date: 10-Apr-2010

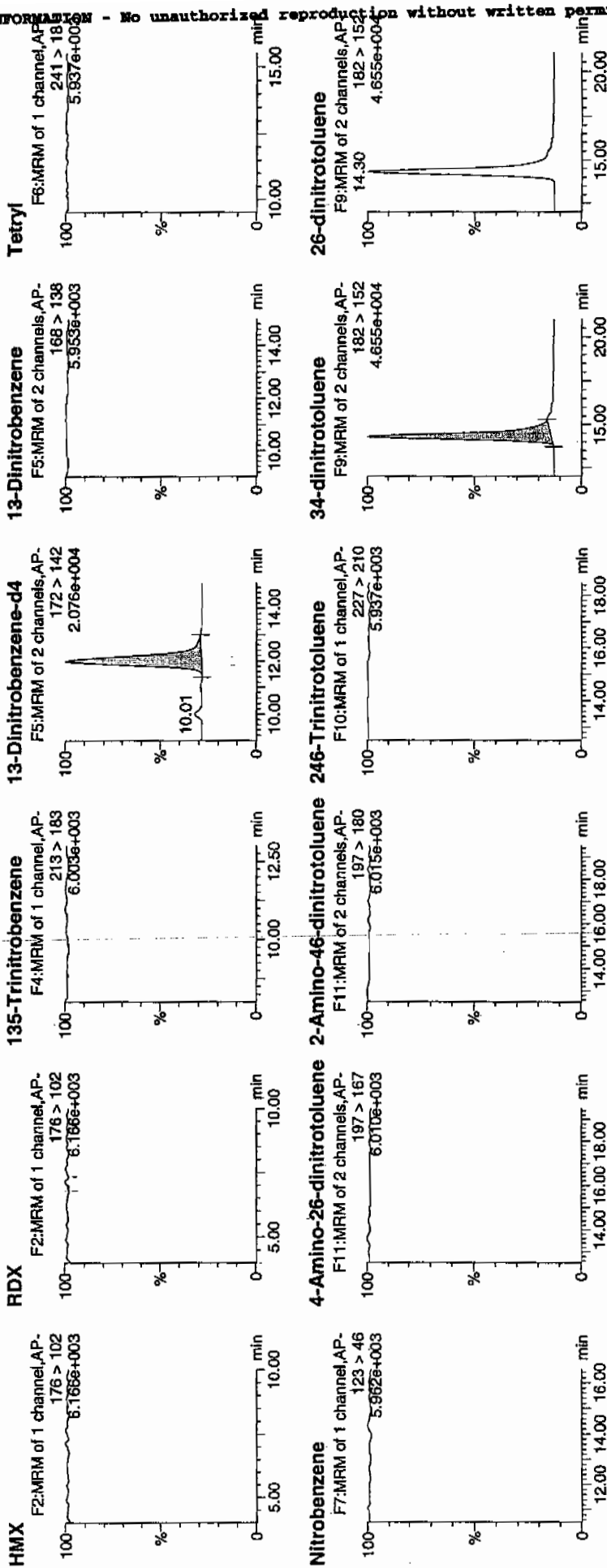
Time: 06:32:11

ID: 247904013

Vial: 2:7,E

4/10/10
 4/10/10

Handwritten: 121
 121/957702/8022/121



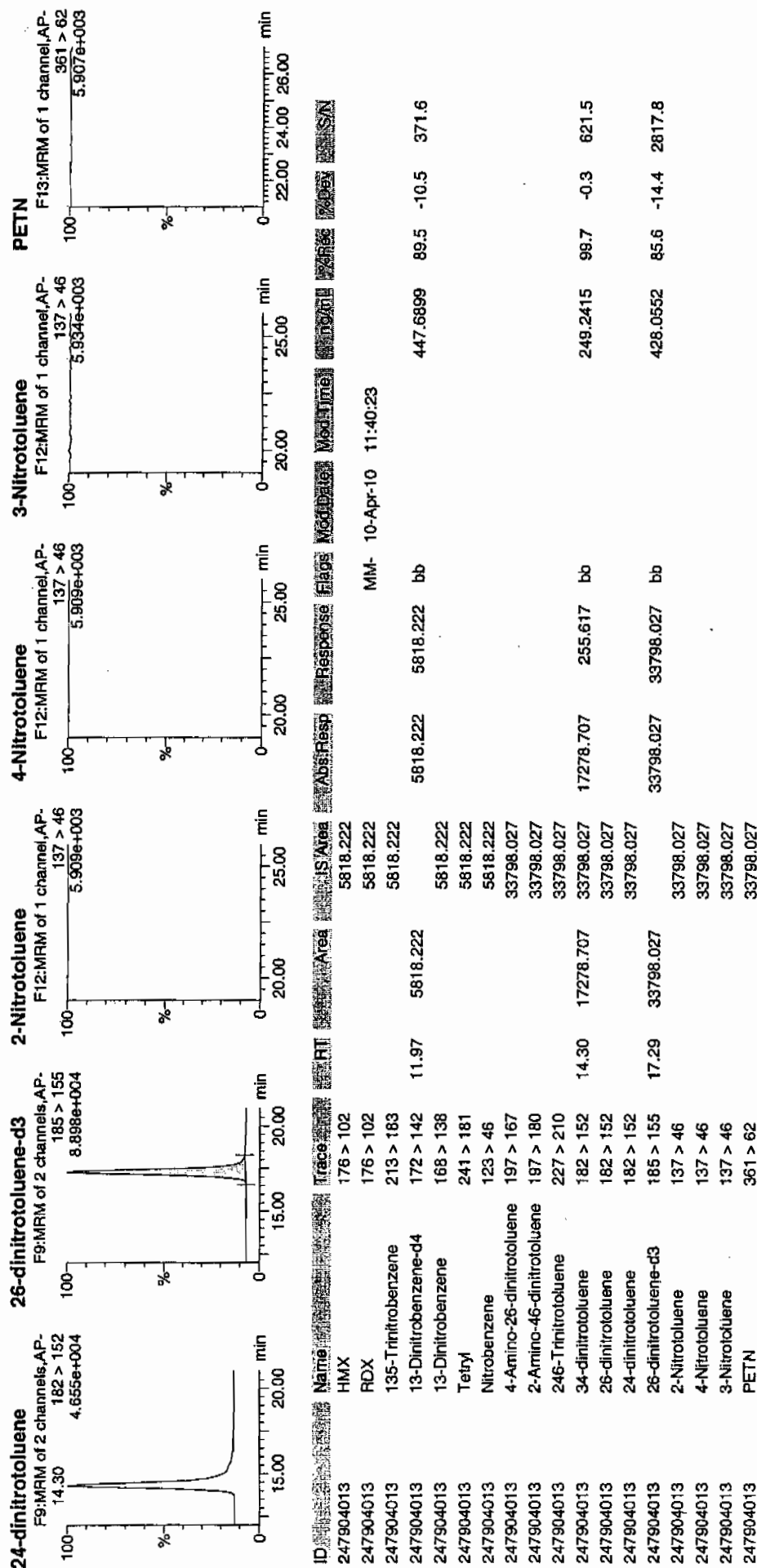
Handwritten: 121/957702/8022/121

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 86 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8024

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220115.wiff

Date Analyzed: 23-MAR-10 21:06

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 =

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

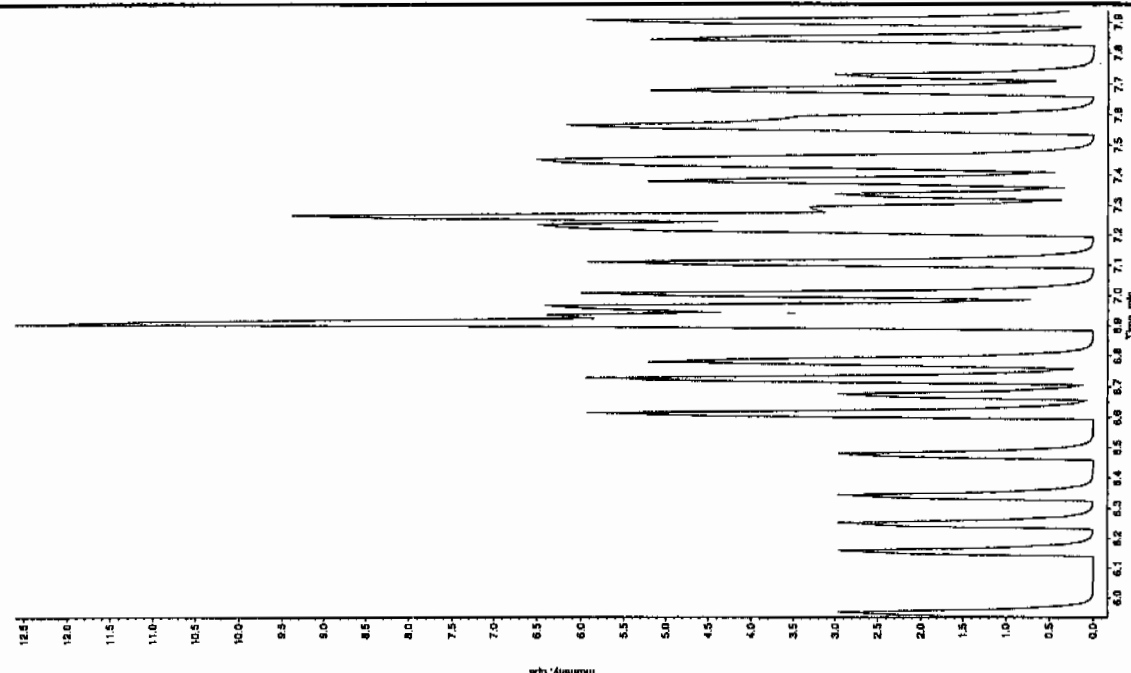
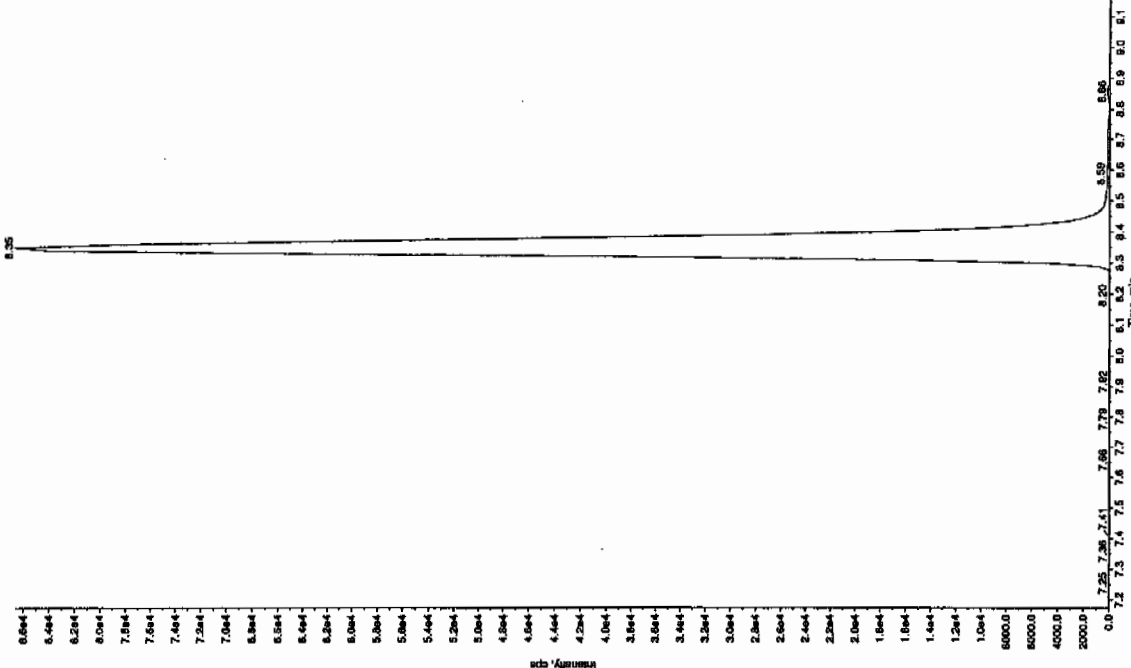
Jan 3/27/10

Sample Name: 247904013 Sample ID: 95770221.15.wif
 Peak Name: 35-Dinitrophenol Mass(es): 182.0465.0 amu
 Comment: LCR832125 Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:06:21 PM
 Modified: No

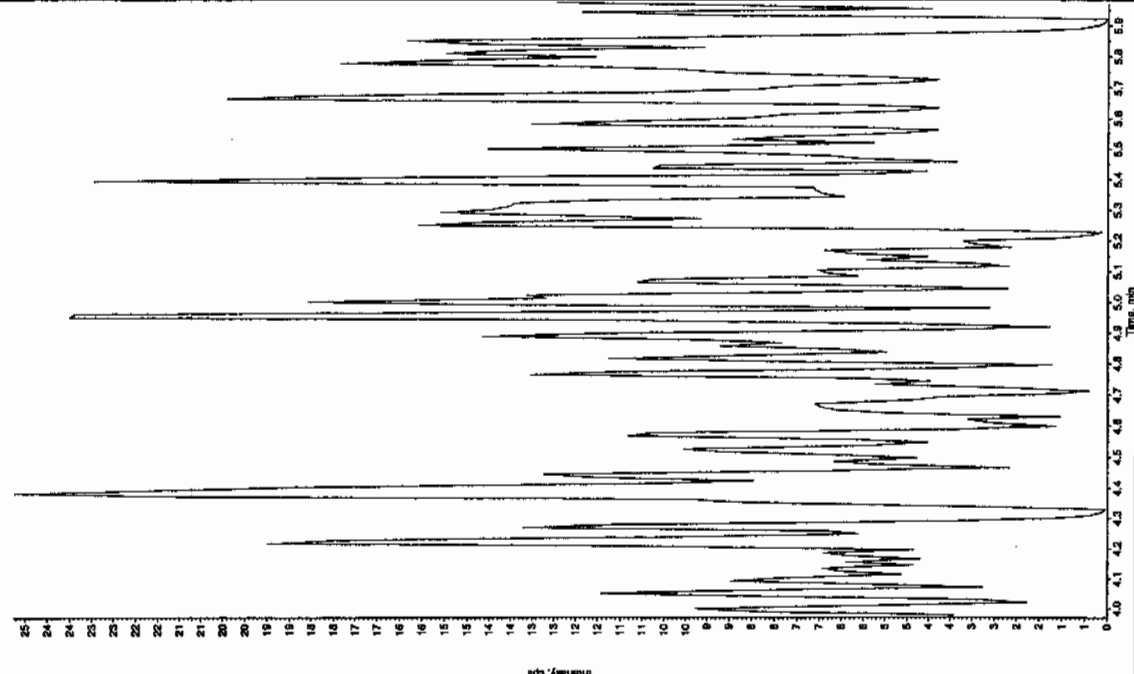
Sample Name: 247904013 Sample ID: 95770221.15.wif
 Peak Name: 71A1B Mass(es): 257.2204.9 amu
 Comment: LCR832125 Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:06:21 PM
 Modified: No



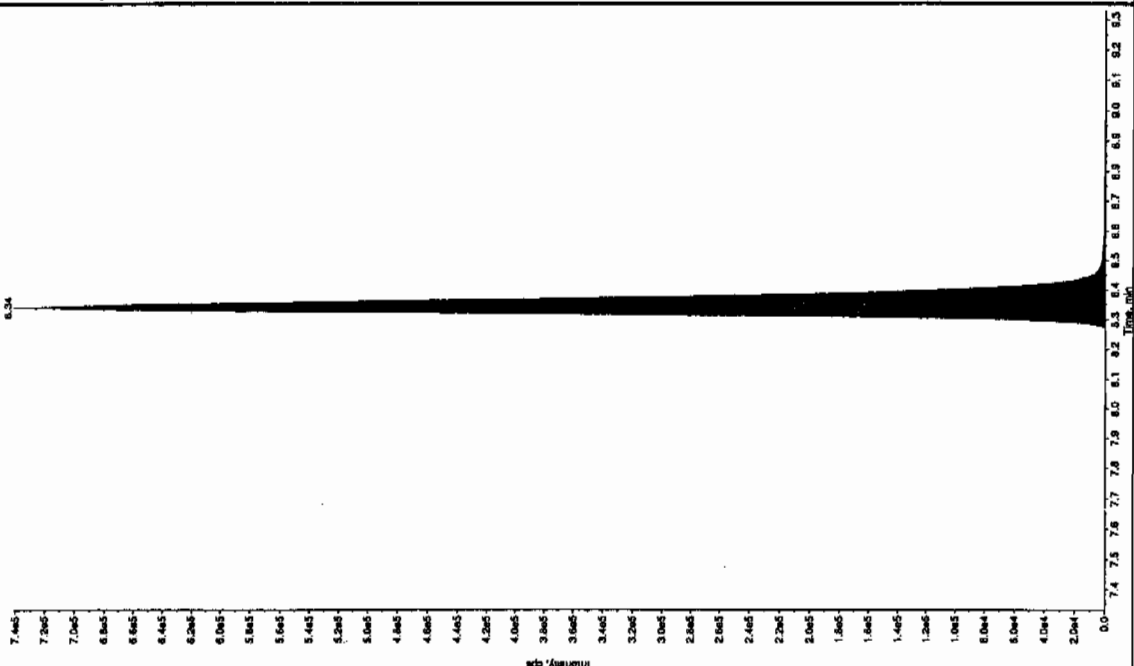
Sample Name: "247904013" Sample ID: "95770221ER" File: "EXS03220115.will"
 Peak Name: "26-Diethyl-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:06:21 PM
 Modified: No



Sample Name: "247904013" Sample ID: "95770221ER" File: "EXS03220115.will"
 Peak Name: "26-Diethyl-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:06:21 PM
 Modified: No
 Spec. Algorithm: IntelligQuan - IQA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Specified RT: 8.33 min
 Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 2.66e+006 counts
 Height: 74085.079 cps
 Start Time: 8.24 min
 End Time: 8.72 min



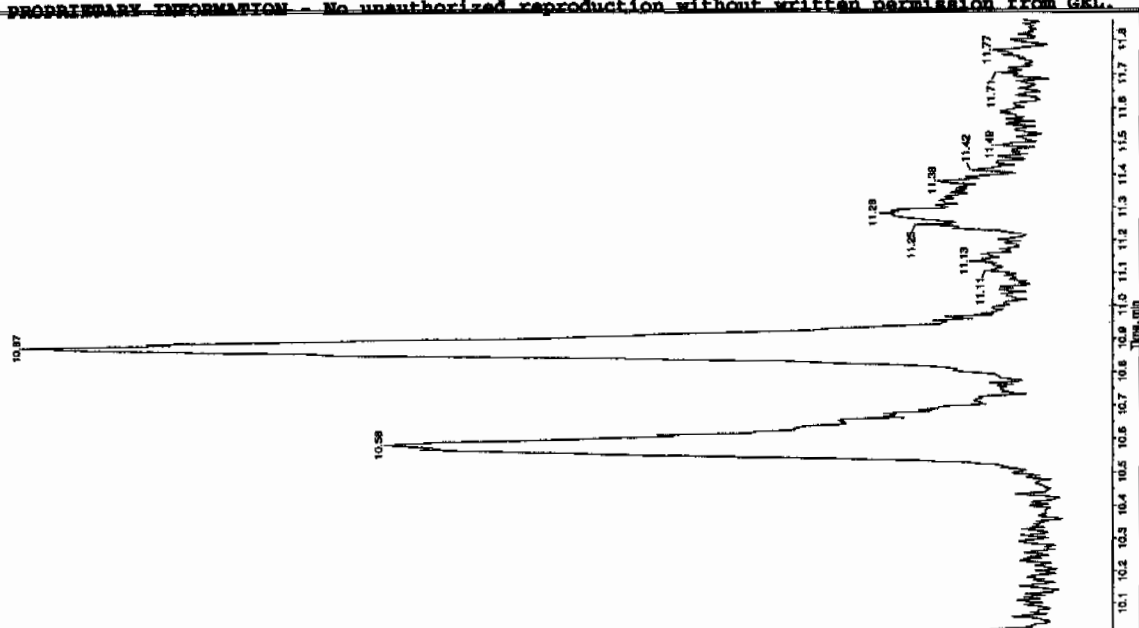
Sample Name: "247904013" Sample ID: "957702121" File: "EX030220115.wif"

Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.191.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:06:21 PM
 Modified: No

Intensity, cps



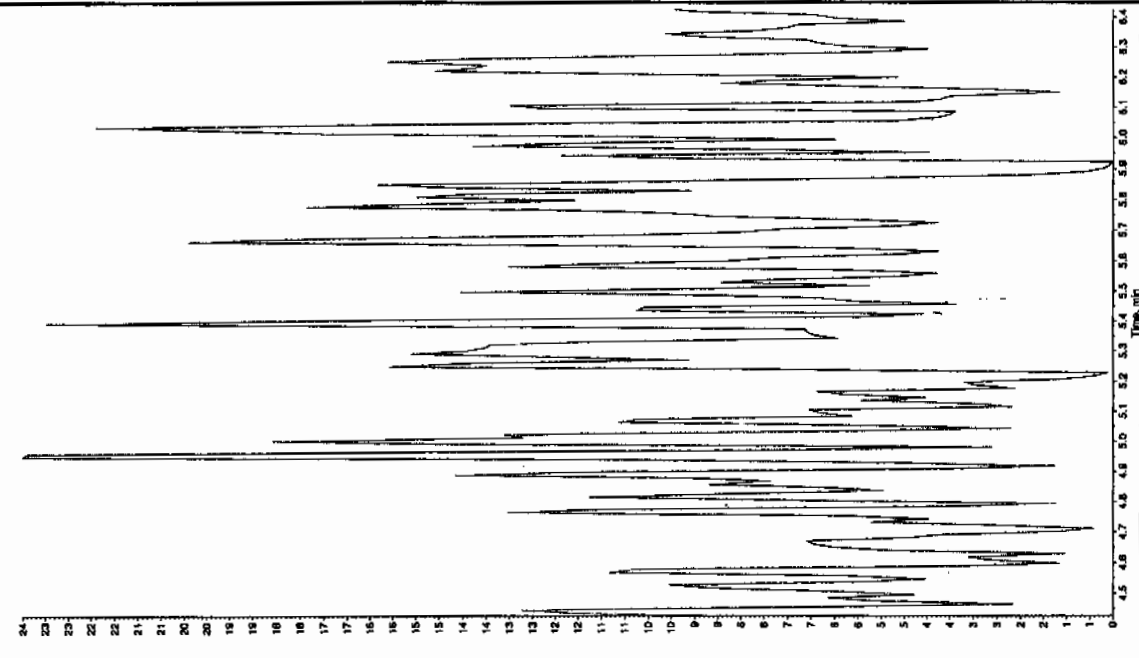
Sample Name: "247904013" Sample ID: "957702121" File: "EX030220115.wif"

Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:06:21 PM
 Modified: No

Intensity, cps



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8016

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408069a

Date Analyzed: 10-APR-10 07:01

Units: ug/kg

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

*Concentration =

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

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0408069a

Date: 10-Apr-2010

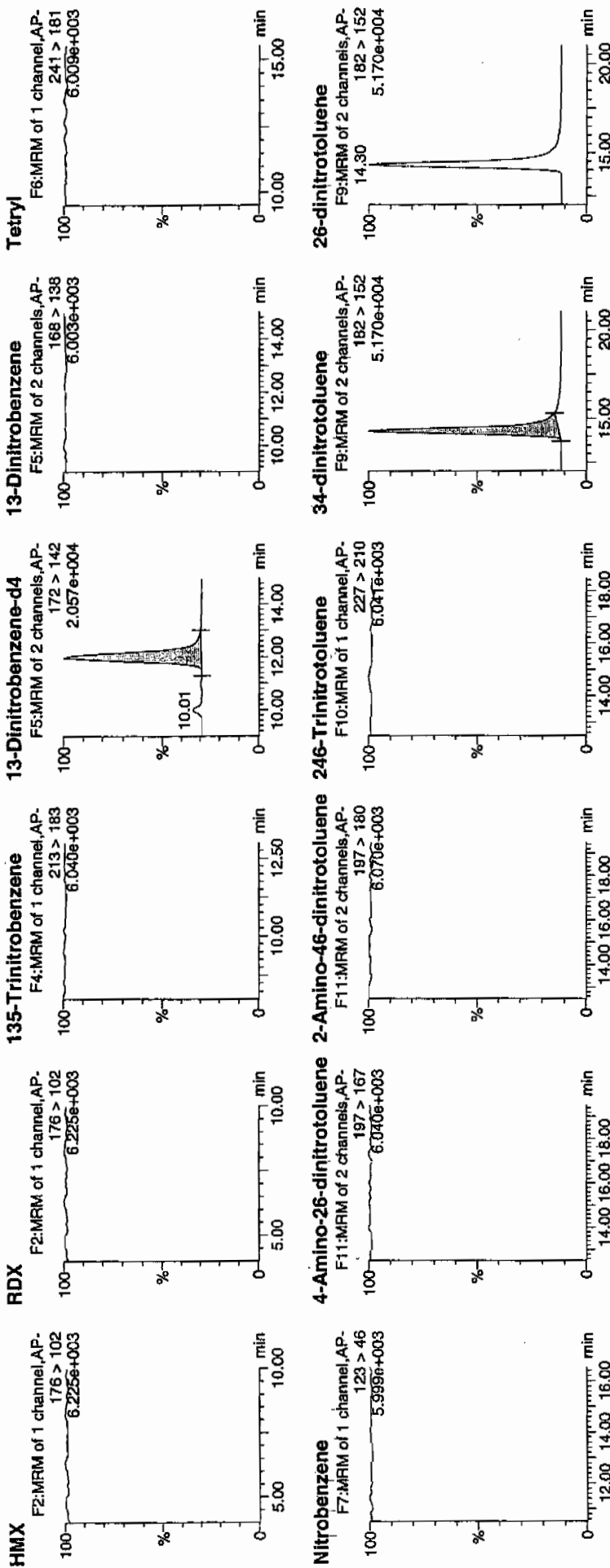
Time: 07:01:40

ID: 247904014

Vial: 2:7.F

not
4/10/10

WAW 957702 / 21 / 2010

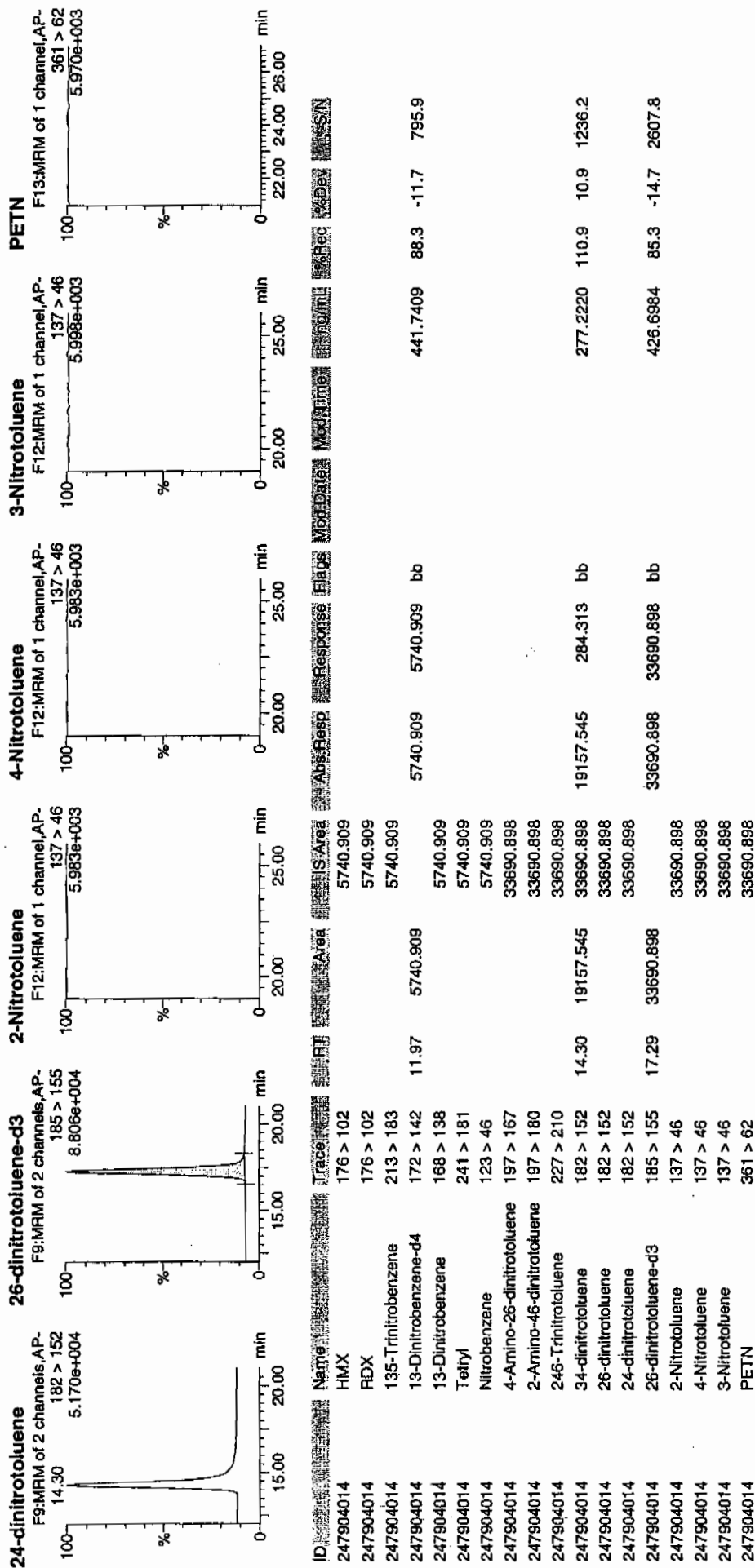


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 88 of 99

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8016

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220116.wiff

Date Analyzed: 23-MAR-10 21:22

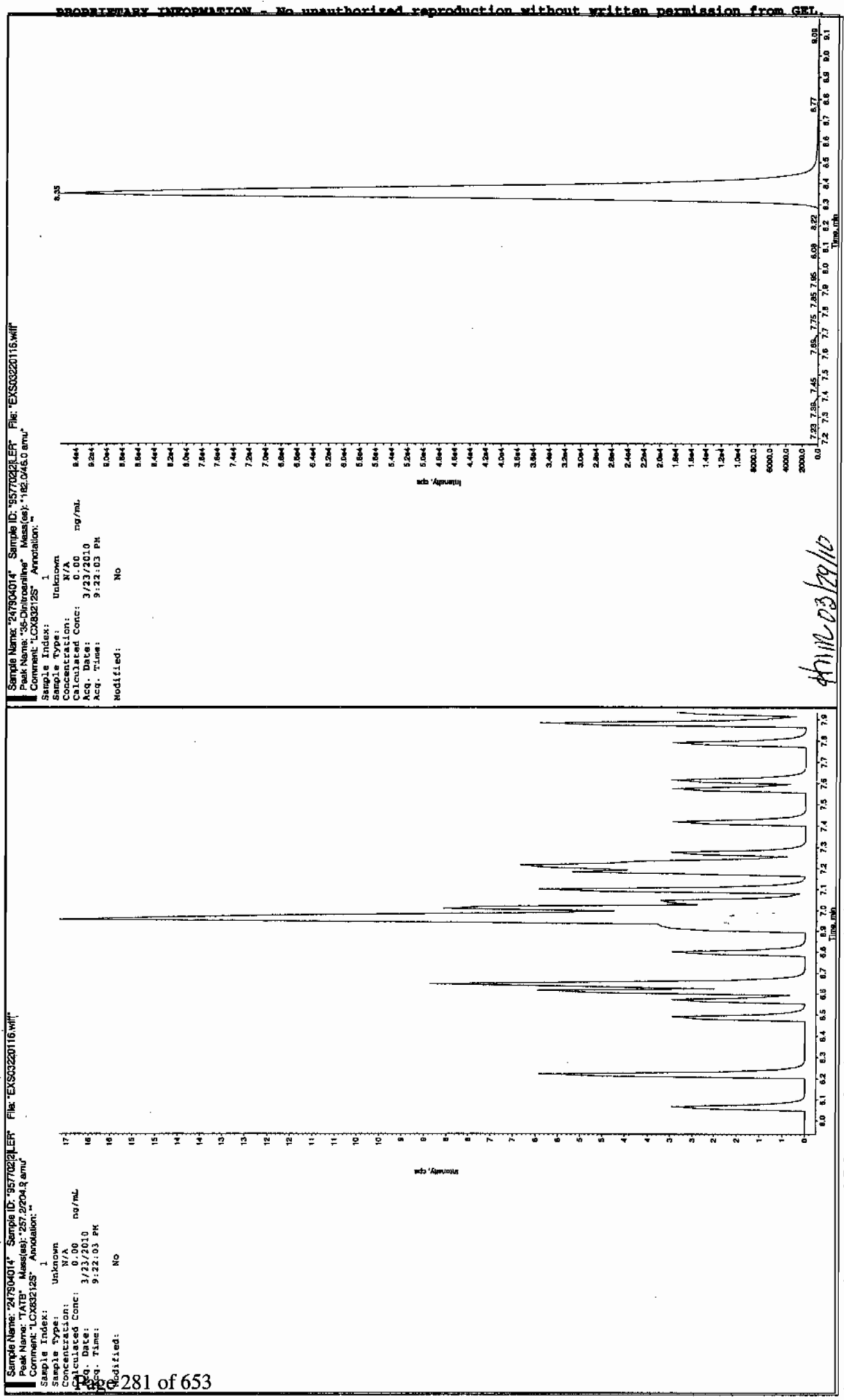
Units: ug/kg

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

*Concentration =

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

Jan 31/27/10

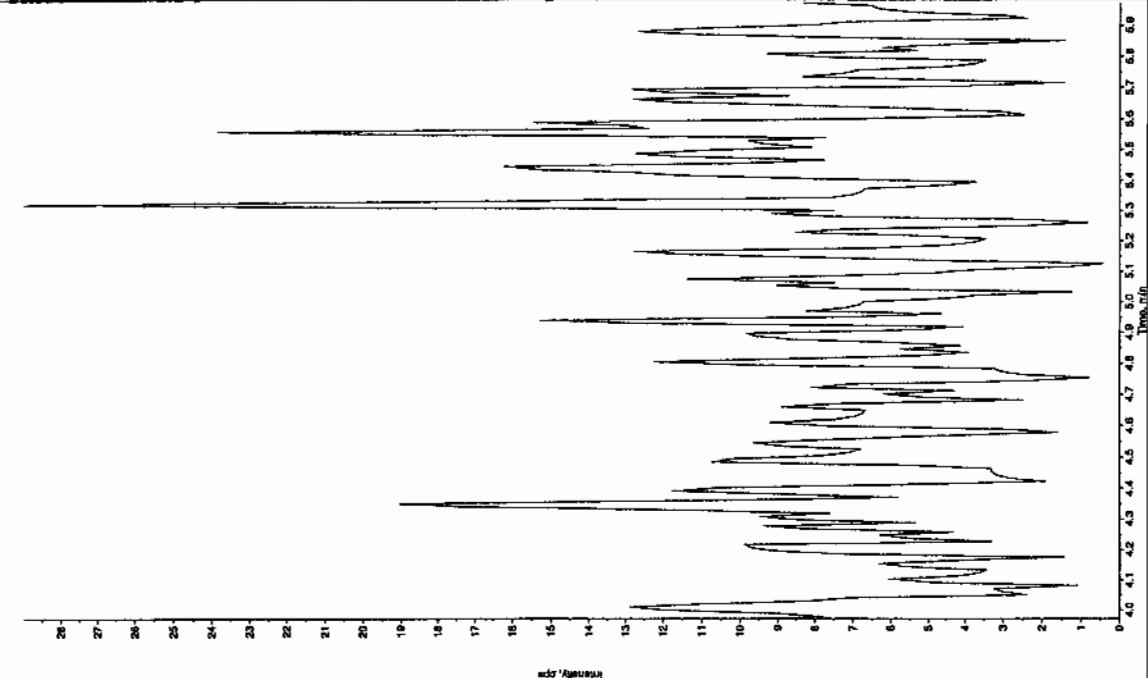


Jan 03/29/10

Sample Name: "247904014" Sample ID: "957702016" File: "EXS03220116.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "185.046.0 amu"

Comment: "LCX832125" Annotation: ""

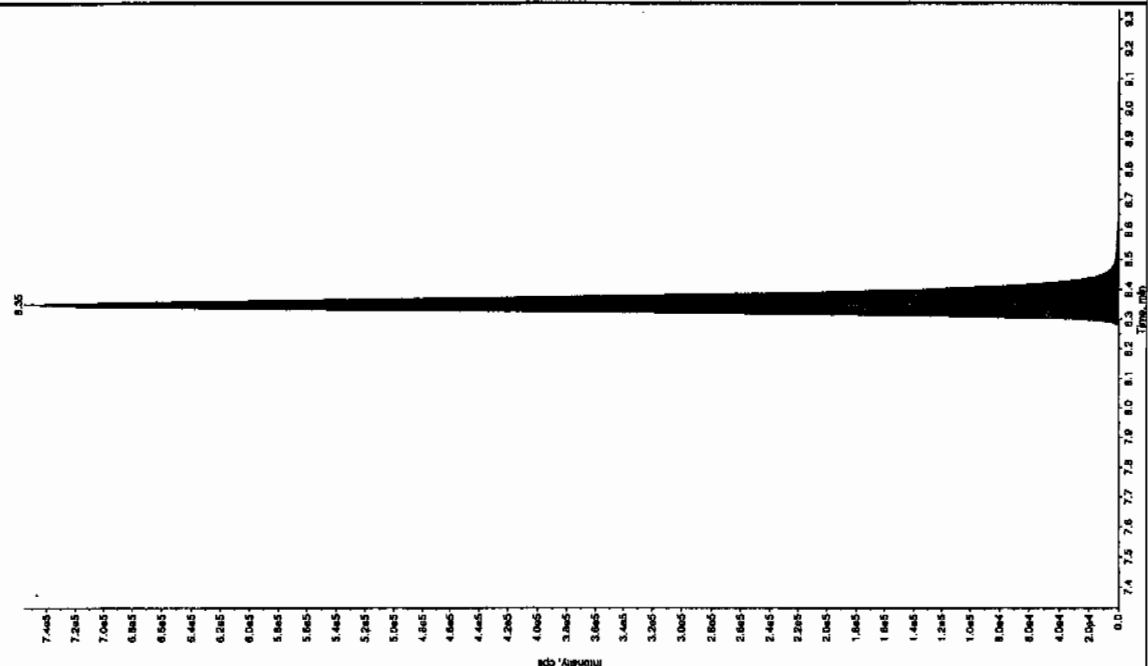
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:22:03 PM
 Modified: No



Sample Name: "247904014" Sample ID: "957702016" File: "EXS03220116.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1715.9 amu"

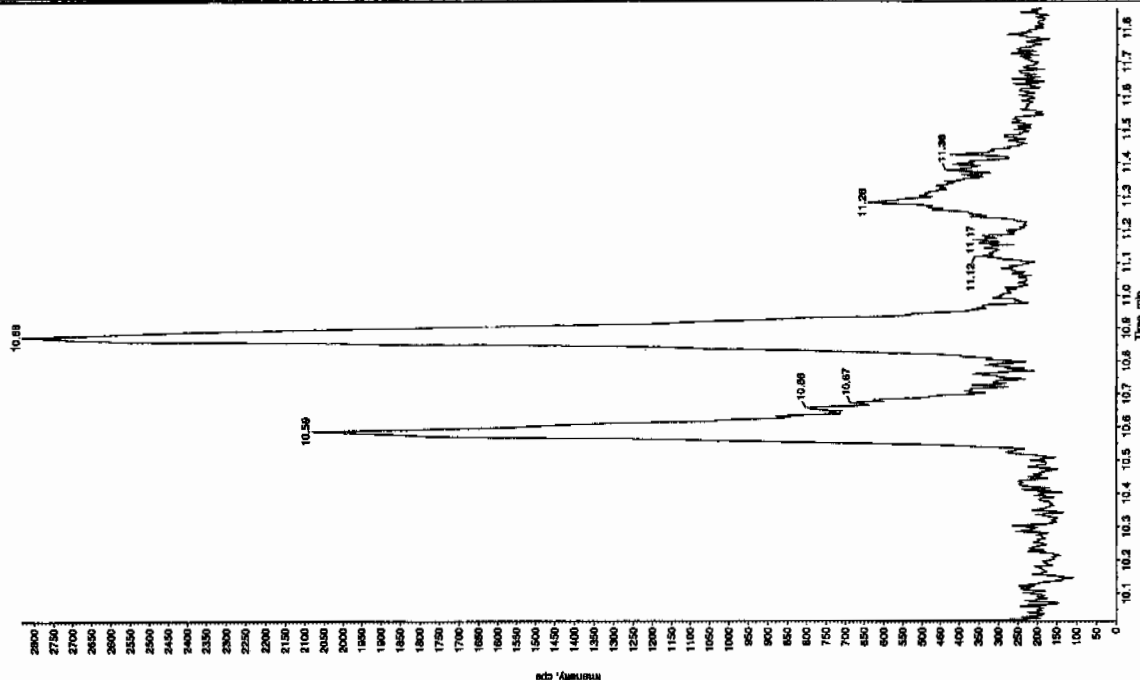
Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 257. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:22:03 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 3.00 sec
 Min. Peak Area: 15.0 counts
 Min. Peak RT: 8.33 min
 Min. Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 2.80e+006 counts
 Height: 755200.317 cps
 Start Time: 8.25 min
 End Time: 8.71 min



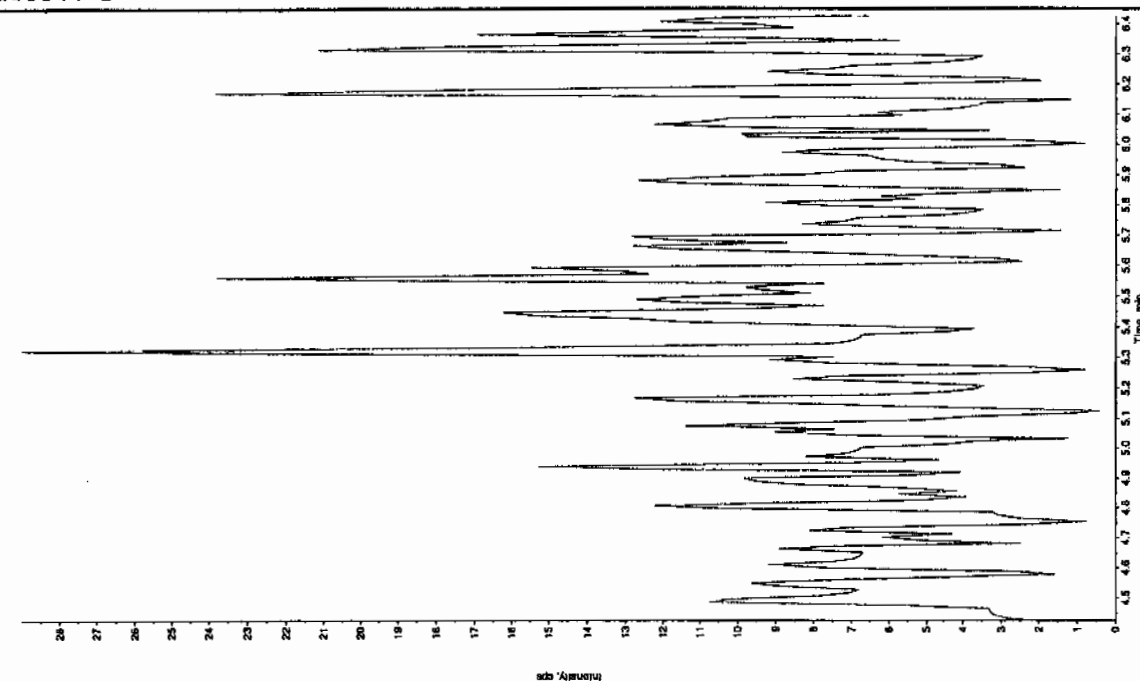
Sample Name: "247904014" Sample ID: "857702121" File: "EXS03220116.wif"
 Peak Name: "tri(o-cresyl) phosphate" Mass(es): "359.1/91.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 9:22:03 PM
 Modified: No



Sample Name: "247904014" Sample ID: "857702121" File: "EXS03220115.wif"
 Peak Name: "24-Diamino-5-nitroalkane" Mass(es): "166.0/46.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 9:22:03 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8065

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904015

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408070a

Date Analyzed: 10-APR-10 07:31

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408070a

Date: 10-Apr-2010

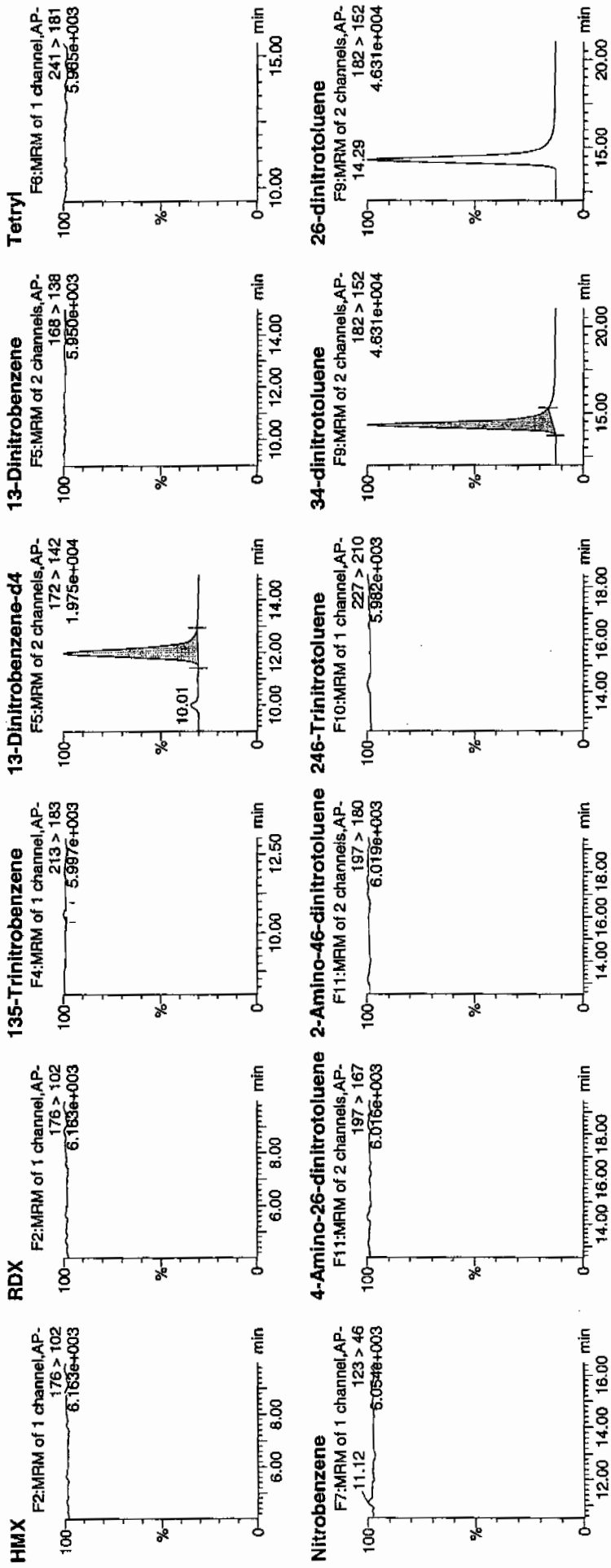
Time: 07:31:09

ID: 247904015

Vial: 2:8,A

4/10/10
4/10/10

LAUW/957702 / 21



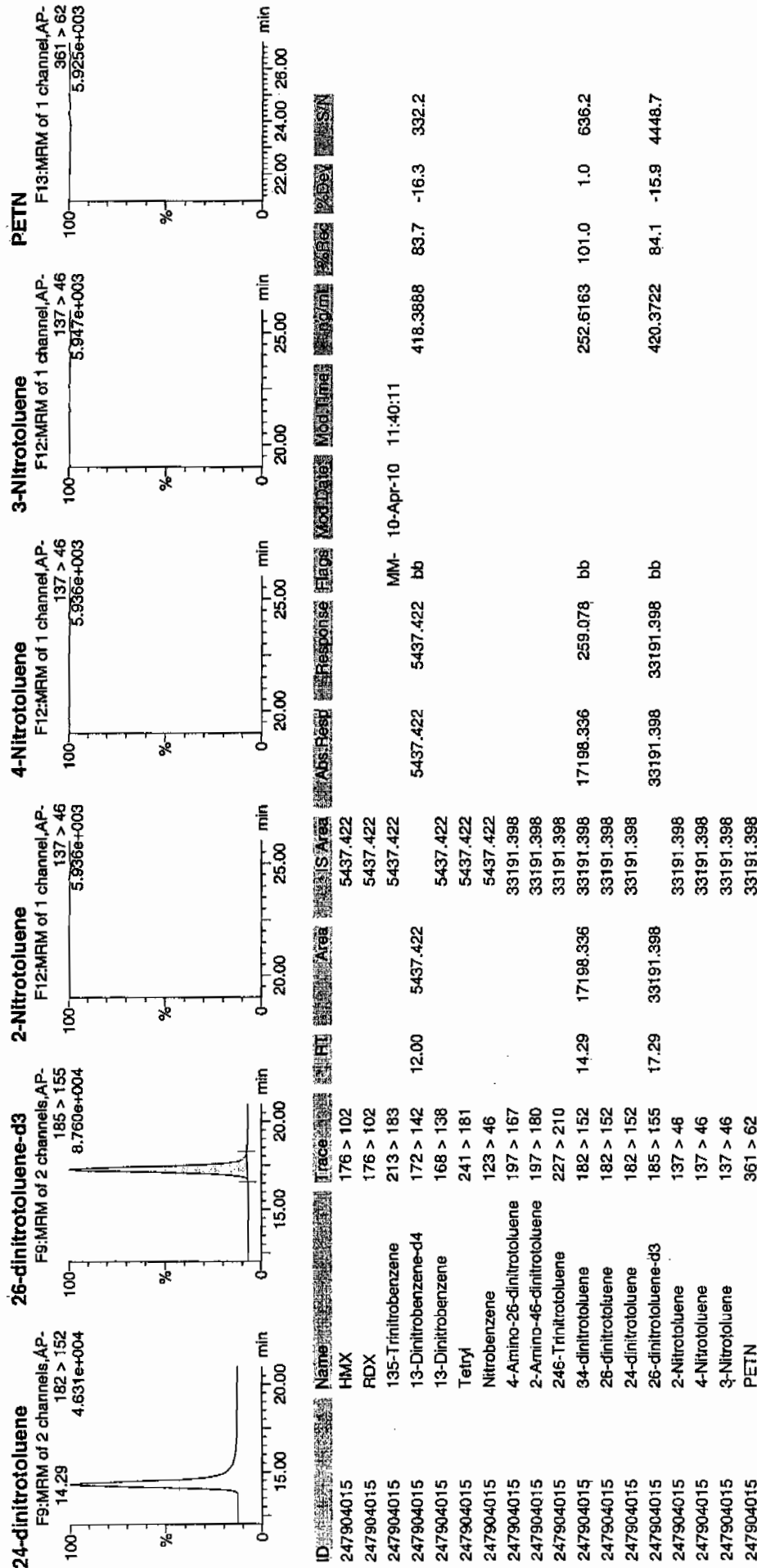
Handwritten signature: *Amc 4/10/10*

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Area	SN
247904015	HMX	176 > 102		5437.422								
247904015	RDX	176 > 102		5437.422								
247904015	135-Trinitrobenzene	213 > 183		5437.422								
247904015	13-Dinitrobenzene-d4	172 > 142	12.00	5437.422					MM- 10-Apr-10	11:40:11		
247904015	13-Dinitrobenzene	168 > 138		5437.422								
247904015	Tetryl	241 > 181		5437.422								
247904015	Nitrobenzene	123 > 46		5437.422								
247904015	4-Amino-26-dinitrotoluene	197 > 167		33191.398								
247904015	2-Amino-46-dinitrotoluene	197 > 180		33191.398								
247904015	246-Trinitrotoluene	227 > 210		33191.398								
247904015	34-dinitrotoluene	182 > 152	14.29	17198.336								
247904015	26-dinitrotoluene	182 > 152		33191.398								
247904015	24-dinitrotoluene	182 > 152		33191.398								
247904015	26-dinitrotoluene-d3	185 > 155		33191.398								
247904015	2-Nitrotoluene	137 > 46	17.29	33191.398								
247904015	4-Nitrotoluene	137 > 46		33191.398								
247904015	3-Nitrotoluene	137 > 46		33191.398								
247904015	PETN	361 > 62		33191.398								

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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8065

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904015

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290014.wiff

Date Analyzed: 29-MAR-10 12:23

Units: ug/kg

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

*Concentration =

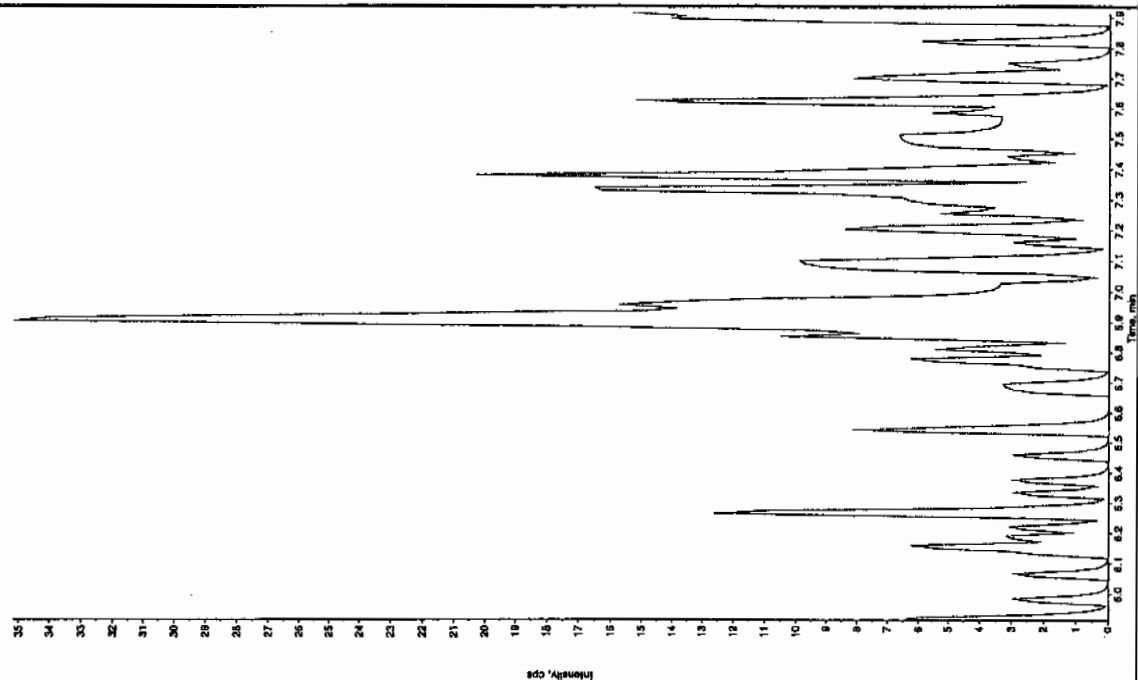
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

2an 4/1/10

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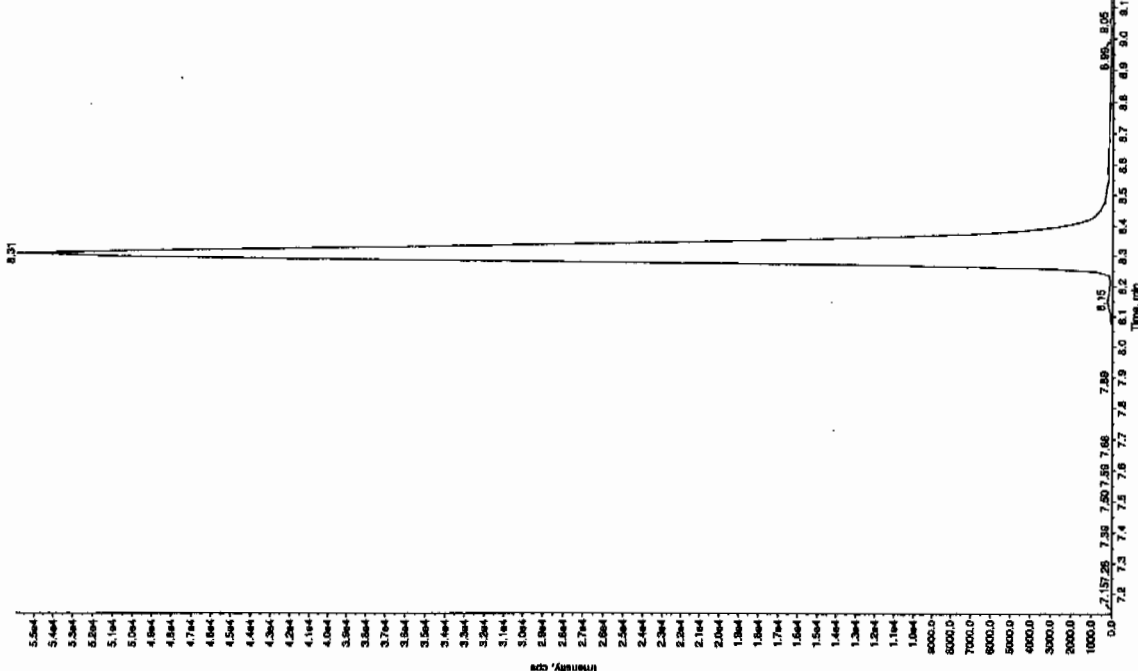
Sample Name: "247904013" Sample ID: "957702125" File: "EXS03290014.wht"
Peak Name: "YATB" Mass(es): "257.2204.9 amu"
Comment: "LCX632125" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3/25/2010
Acq. Date: 3/25/2010
Acq. Time: 12:23:48 PM
Modified: No



Sample Name: "247904015" Sample ID: "957702125" File: "EXS03290014.wht"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
Comment: "LCX632125" Annotation: "

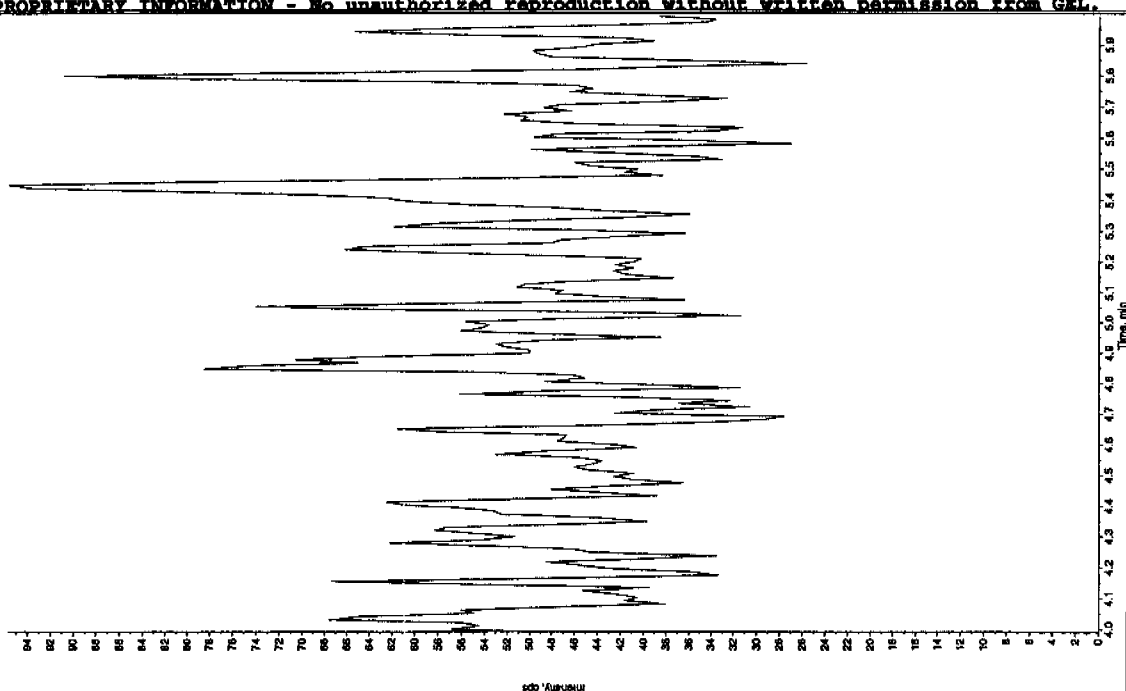
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 mg/mL
Acq. Date: 3/25/2010
Acq. Time: 12:23:48 PM
Modified: No



2an 04/01/10

Sample Name: 247904015 Sample ID: 95770231ER File: EX50320014.wif
 Peak Name: 25-Diamino-4-nitrotoluene Mass(es): 166.046.0 amu
 Comment: LCM832125 Annotation: "

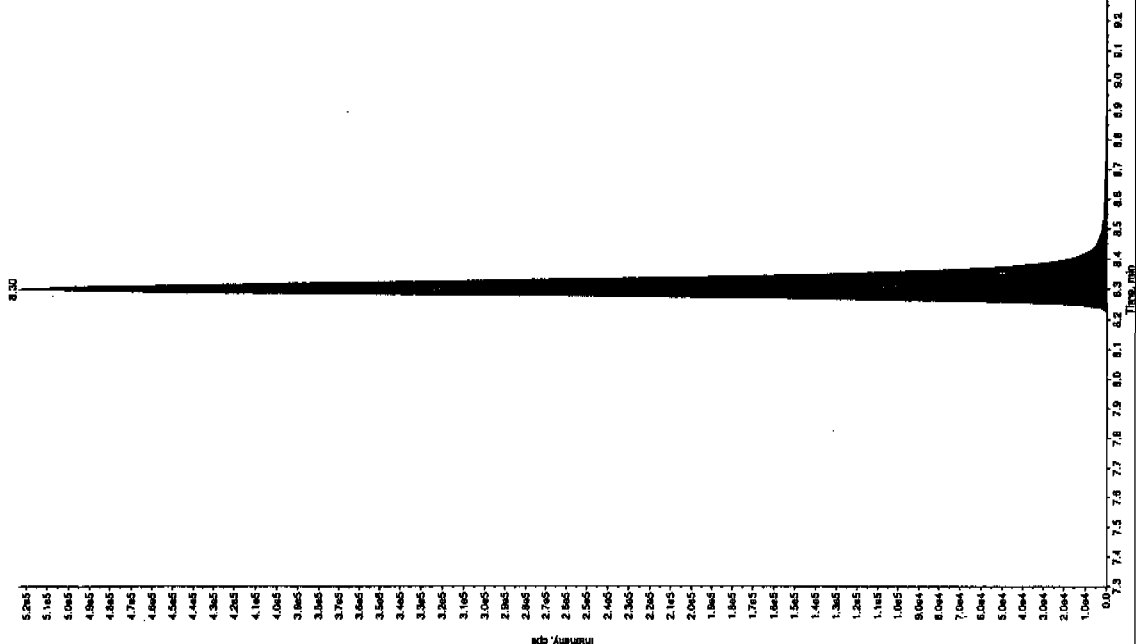
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:23:48 PM
 Modified: No



Sample Name: 247904015 Sample ID: 95770231ER File: EX50320014.wif
 Peak Name: 34-Dinitrotoluene Mass(es): 182.17151.9 amu
 Comment: LCM832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 296. ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:23:48 PM
 Modified: No

QC Algorithm: IntelliQuan - IQA
 MO. Peak Height: 160.00 cps
 Min. Peak Width: 0.00 sec
 Apportioning Width: 3.00 points
 Window: 15.0 sec
 Ret. Time: 8.30 min
 Relative RT: No
 Int. Type: Valley
 Retention Time: 8.30 min
 Area: 2.08e+006 counts
 Height: 523813.477 cps
 Start Time: 8.21 min
 End Time: 8.39 min

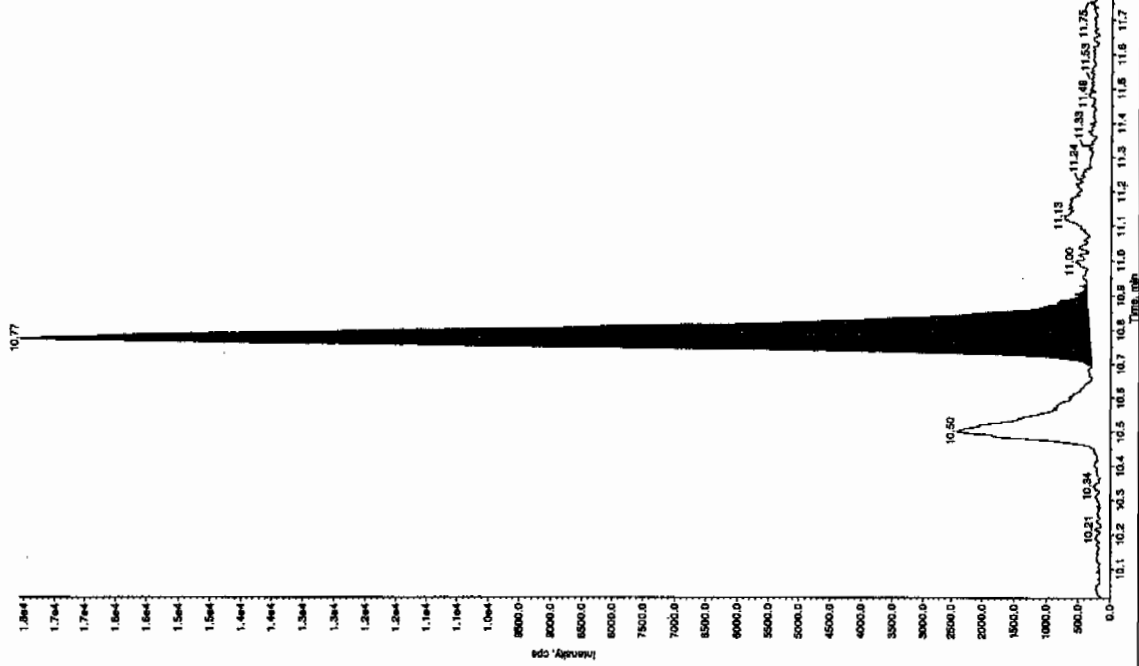


Sample Name: 247904015 Sample ID: 957702121 File: EXS03290014.wml

Peak Name: "tri(o-cray) phosphates" Mass(es): 369.1791.0 amu

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 2.6a ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:23:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.80e+004 counts
 Height: 17241.259 cps
 Start Time: 10.7 min
 End Time: 10.9 min

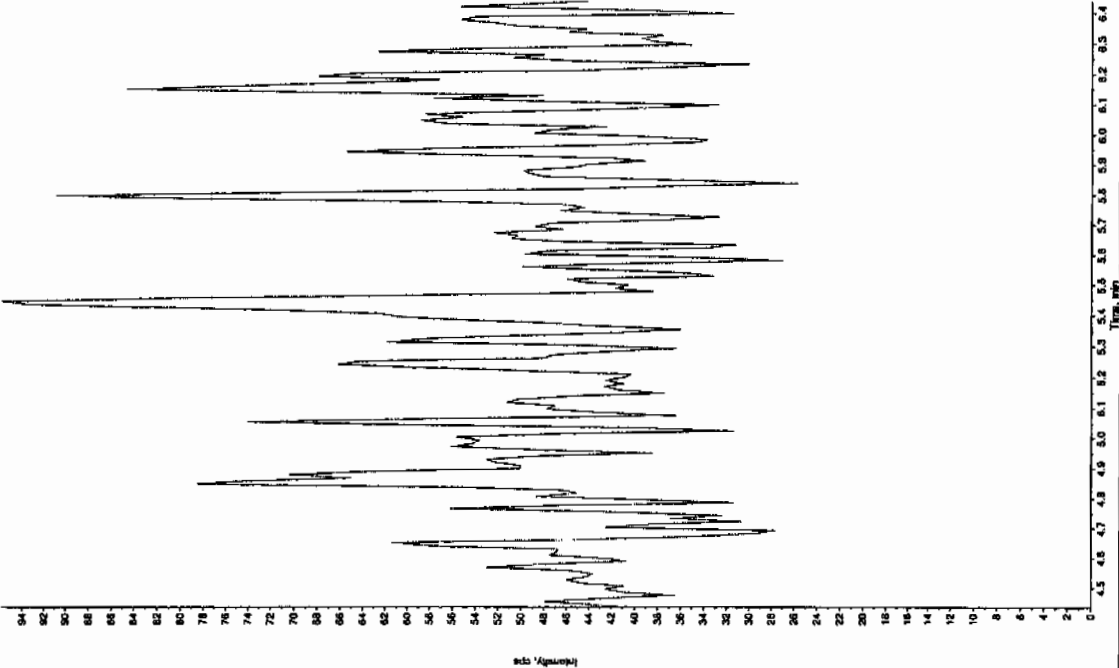


Sample Name: 247904015 Sample ID: 957702121 File: EXS03290014.wml

Peak Name: "24-Diamino-6-nitroalkene" Mass(es): 166.046.0 amu

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:23:46 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8066

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904016

Sample Amount 2

Moisture: 19.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408071a

Date Analyzed: 10-APR-10 08:00

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408071a

Date: 10-Apr-2010

Time: 08:00:41

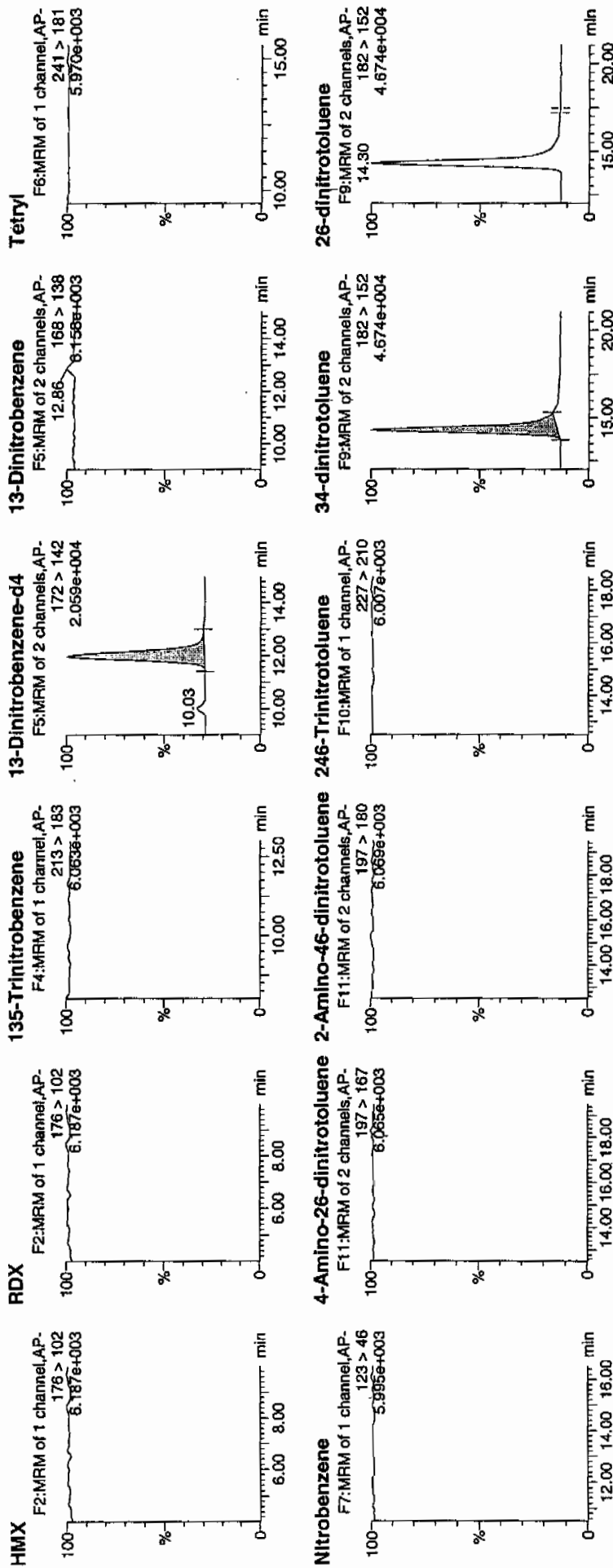
ID: 247904016

Vial: 2:8,B

2477
4/13/10

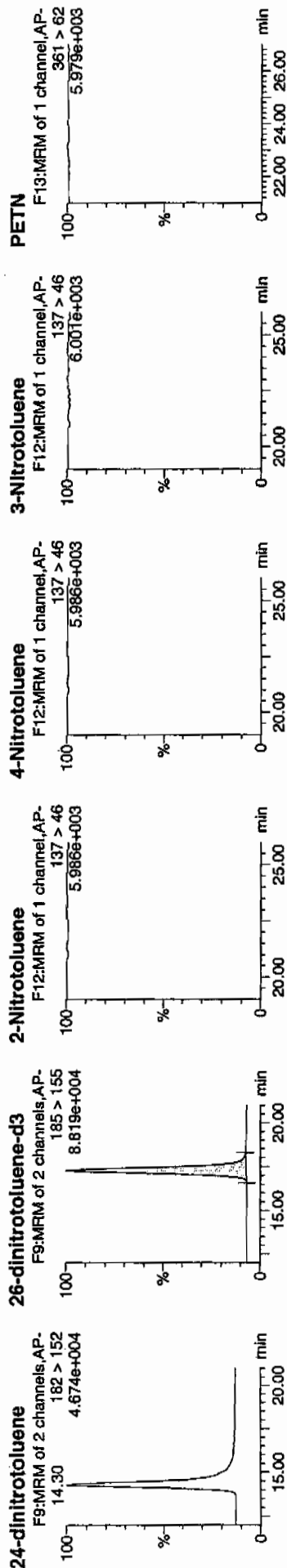
LANU 957702 / Sour 12 /

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Handwritten signature and date: 4/13/10

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	RT	Area	IS Area	Abstr Resp	Response	Flags	Mod Date	Mod Time	Mod By	Rev	SN
247904016	HMX	176 > 102		5628.100									
247904016	RDX	176 > 102		5628.100									
247904016	135-Trinitrobenzene	213 > 183		5628.100									
247904016	13-Dinitrobenzene-d4	172 > 142	11.97	5628.100									
247904016	13-Dinitrobenzene	168 > 138		5628.100									
247904016	Tetryl	241 > 181		5628.100									
247904016	Nitrobenzene	123 > 46		5628.100									
247904016	4-Amino-26-dinitrotoluene	197 > 167		33536.559									
247904016	2-Amino-46-dinitrotoluene	197 > 180		33536.559									
247904016	246-Trinitrotoluene	227 > 210		33536.559									
247904016	34-dinitrotoluene	182 > 152	14.30	17262.182	33536.559	17262.182	257.364	bb	MM-	10-Apr-10	11:36:09	0.4	621.7
247904016	26-dinitrotoluene	182 > 152		33536.559									
247904016	24-dinitrotoluene	182 > 152		33536.559									
247904016	26-dinitrotoluene-d3	185 > 155	17.27	33536.559		33536.559	33536.559	bb				84.9	-15.1
247904016	2-Nitrotoluene	137 > 46		33536.559									
247904016	4-Nitrotoluene	137 > 46		33536.559									
247904016	3-Nitrotoluene	137 > 46		33536.559									
247904016	PETN	361 > 62											

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8066

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904016

Sample Amount 2

Moisture: 19.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290015.wiff

Date Analyzed: 29-MAR-10 12:39

Units: ug/kg

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

*Concentration =

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

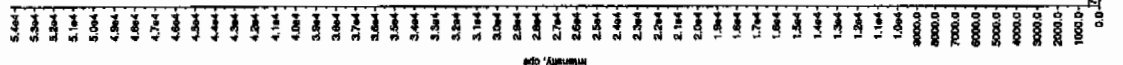
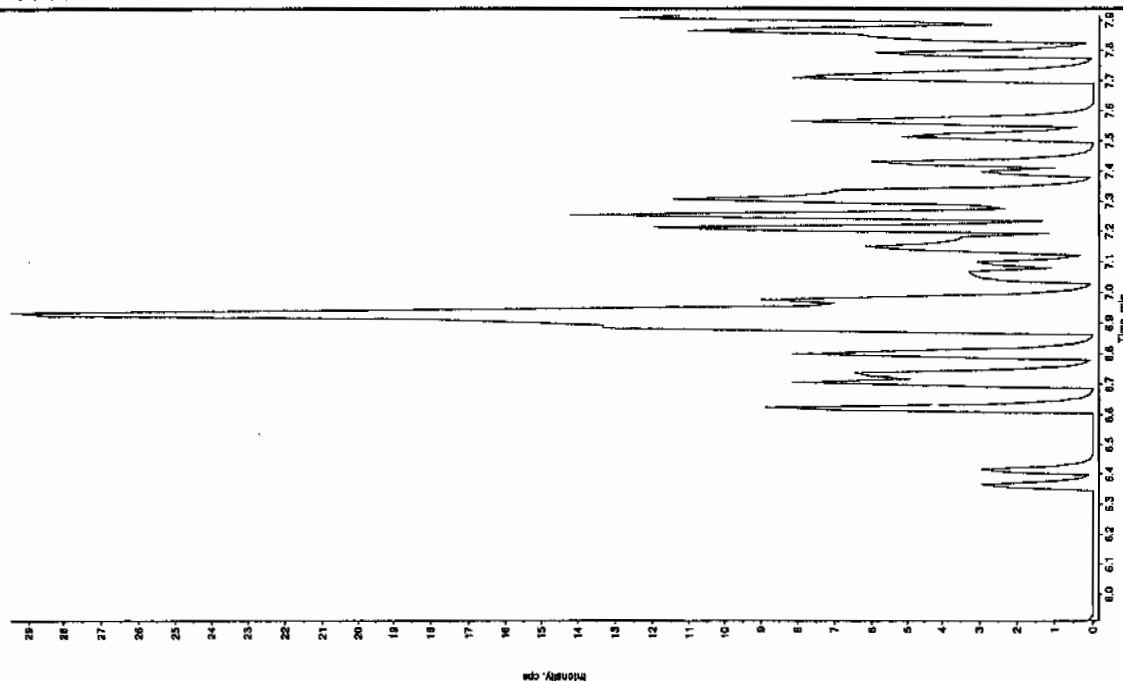
Ran 4/1/10

Sample Name: "247904016" Sample ID: "957702125" File: "EXS03250015.wiff"

Peak Name: "TATE" Mass(es): "257.22034.9 amu"

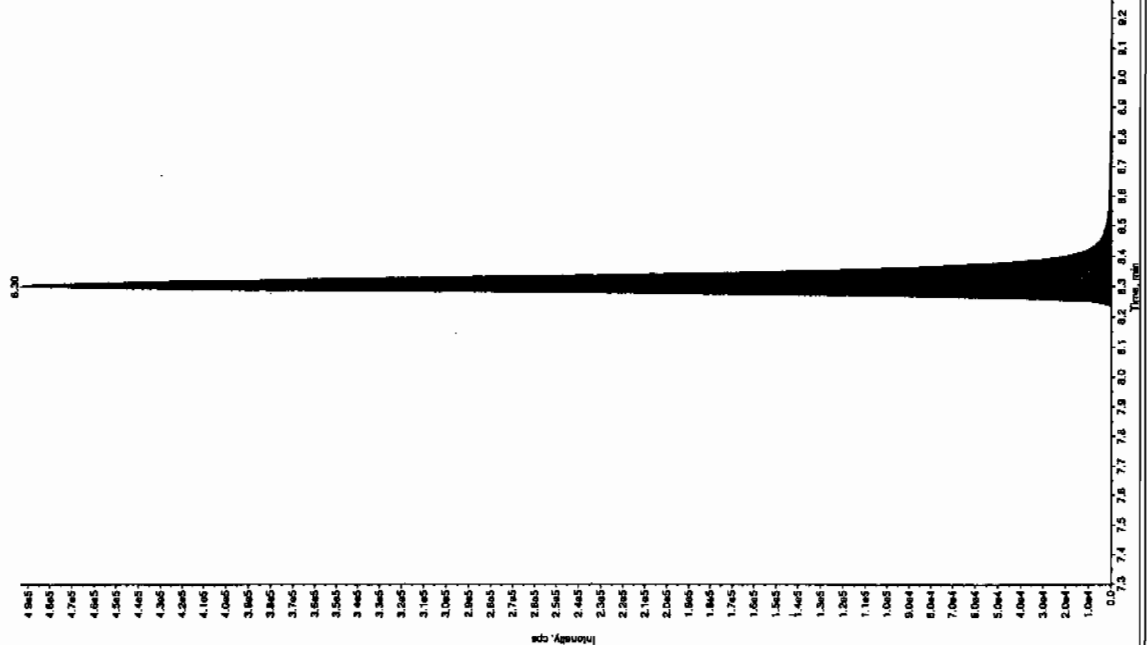
Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:39:29 PM
 Modified: No



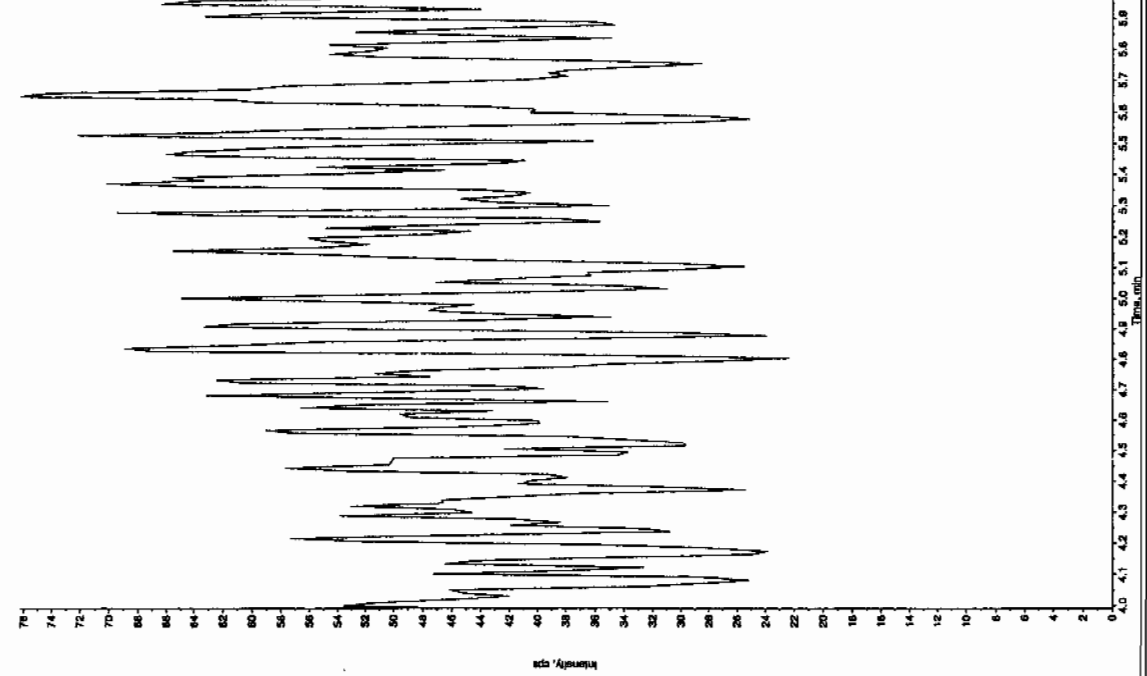
Sample Name: '247804015' Sample ID: '957702015' File: 'EXS020015.wif'
 Peak Name: '3a-Dinitrophenol' Mass(es): '182.161518 amu'
 Comment: 'LCX832125' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 288. ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:39:29 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 Ret. Time: 8.30 min
 Peak Height: 1460.00 cps
 Peak Width: 3.00 sec
 Peak Area: 4360 counts
 Peak Width: 15.0 sec
 Expected RT: 8.30 min
 RT Relative RT: No
 Ret. Type: Valley
 Retention Time: 8.30 min
 Area: 2.03e+006 counts
 Height: 493800.079 cps
 Start Time: 8.22 min
 End Time: 8.84 min



Sample Name: '247804015' Sample ID: '957702015' File: 'EXS020015.wif'
 Peak Name: '26-Diamino-4-nitrotoluene' Mass(es): '186.04680 amu'
 Comment: 'LCX832125' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:39:29 PM
 Modified: No

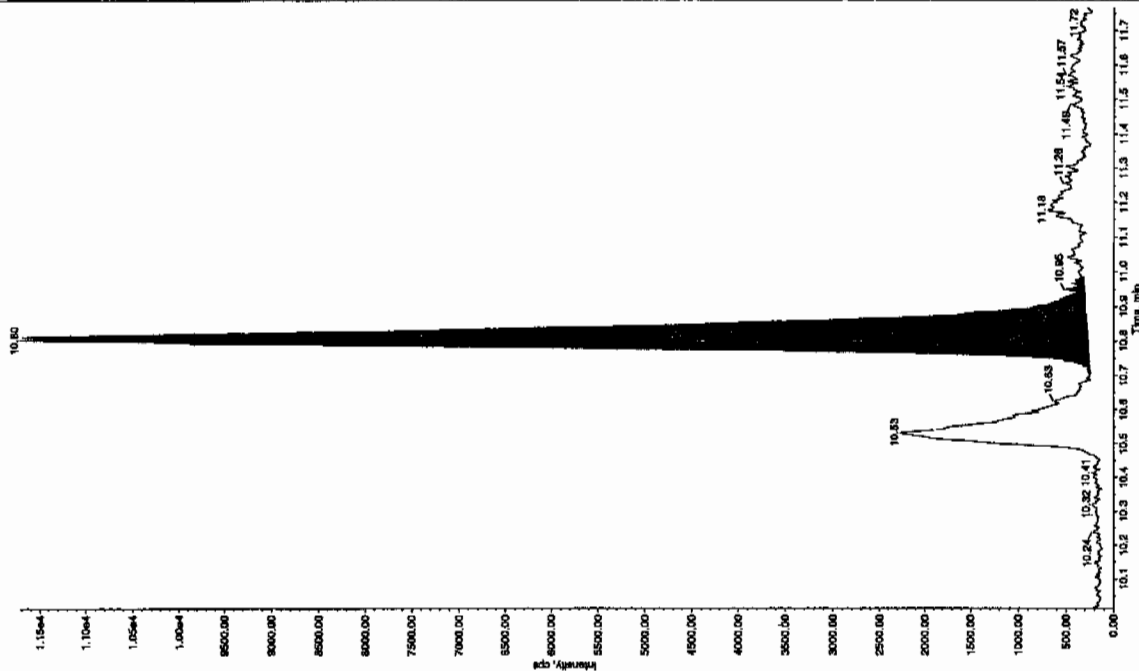
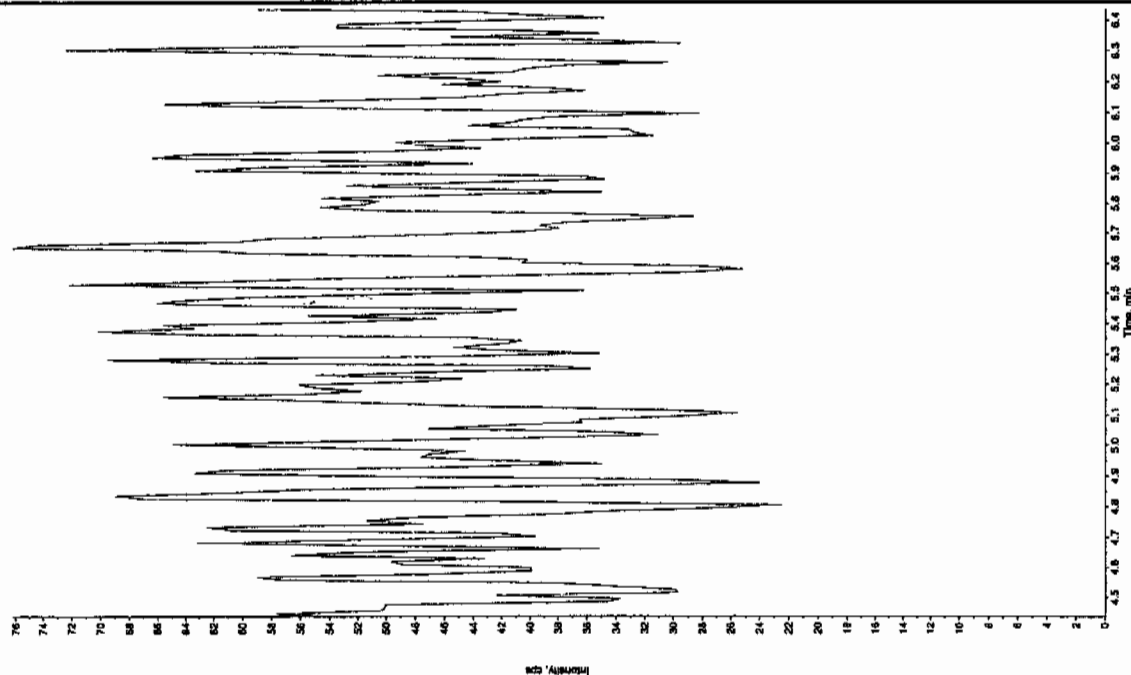


Sample Name: "247904016" Sample ID: "95770221ER" File: "EXS03290015.wif"
 Peak Name: "24-Chloro-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX832123" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:39:29 PM
 Modified: No

Proc. Algorithm: InCelliQuan - IOA

Min. Peak Height: 800.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 4.66e+004 counts
 Height: 11451.051 cps
 Start Time: 10.7 min
 End Time: 11.0 min



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8033

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904017

Sample Amount 2

Moisture: 24.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408075a

Date Analyzed: 10-APR-10 09:58

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 1 of 97

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\040810expa.mdb, Time: Fri Apr 09 10:24:44 2010
Calibration: C:\MASSLYNX\New_Exp.PRO\CurveDB\040810expa.cdb, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408075a

Date: 10-Apr-2010

Time: 09:58:46

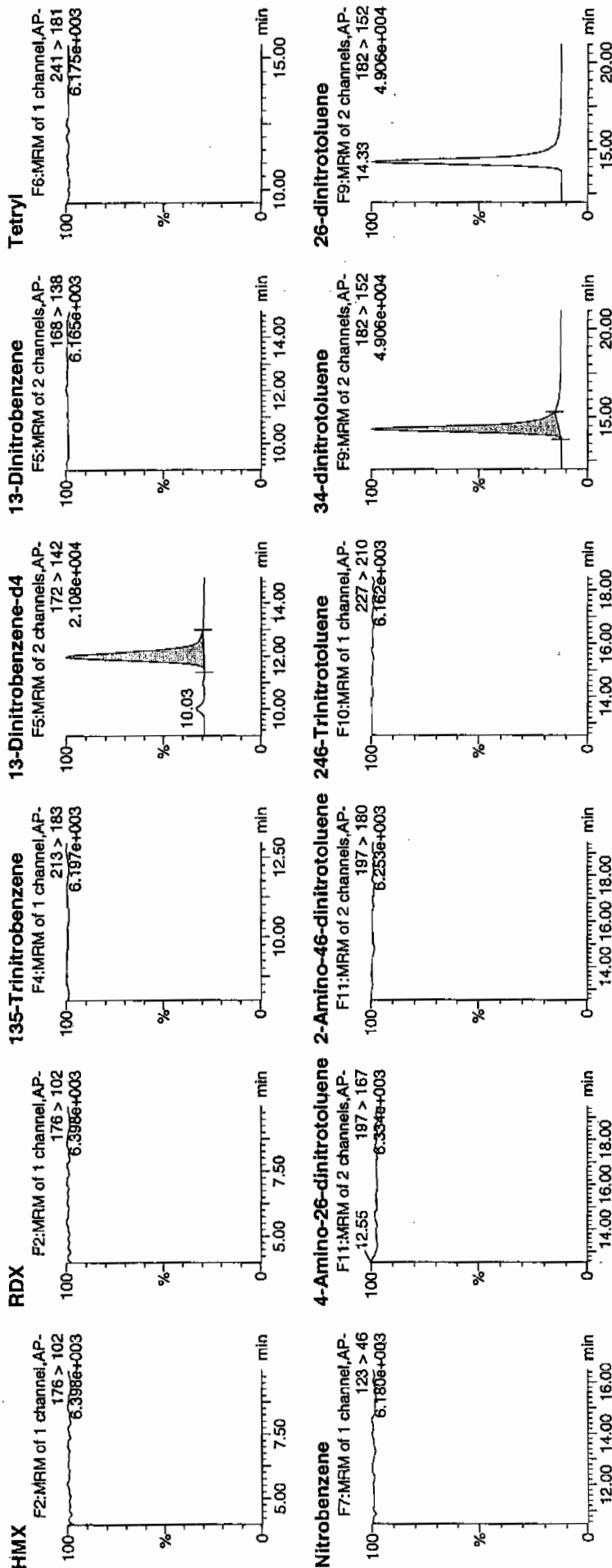
ID: 247904017

Vial: 2:8,C

4/11/10

WAV 957702 / 8012

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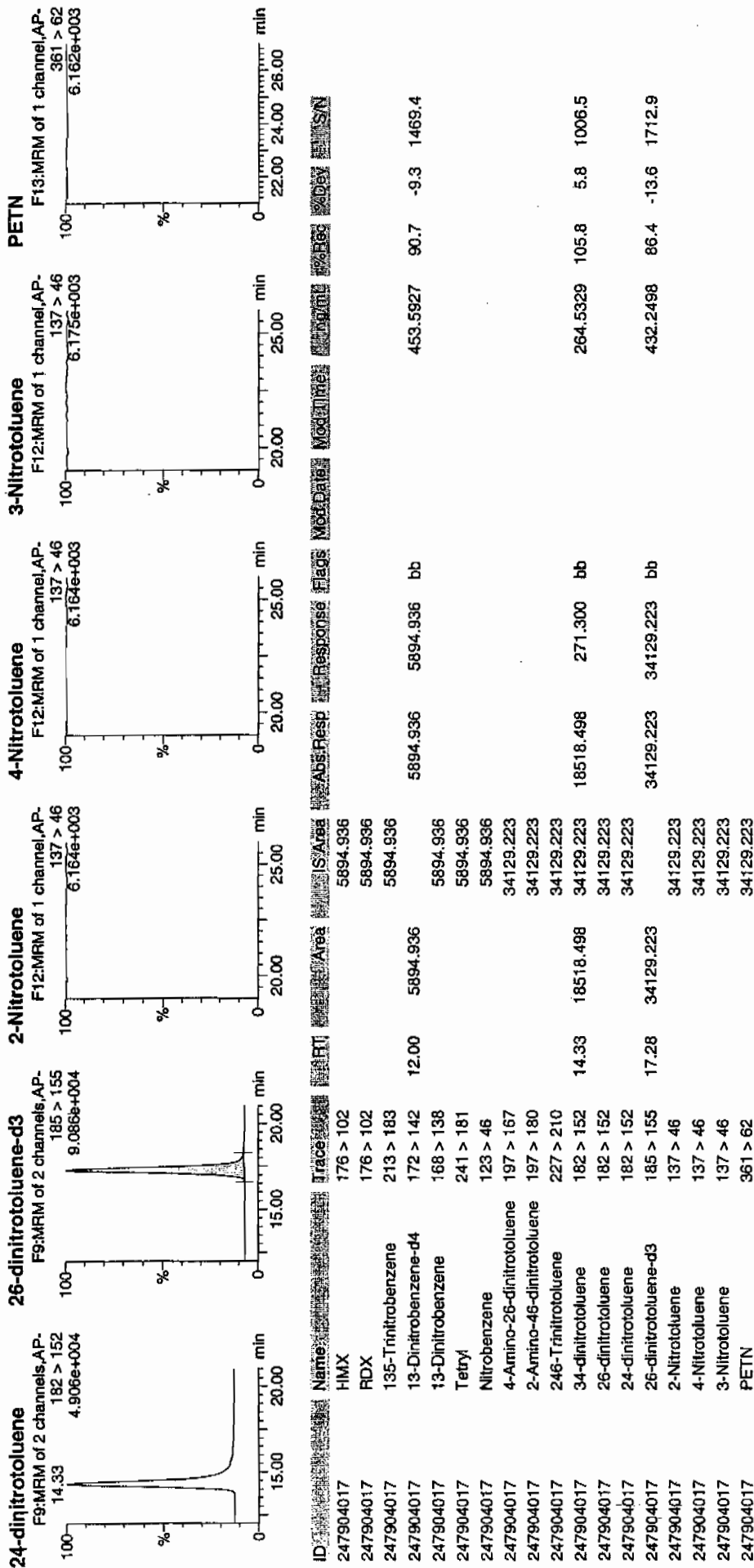
Handwritten signature and date: 4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYN\New_Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8033

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 247904017

Sample Amount 2

Moisture: 24.3

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03290016.wiff

Date Analyzed: 29-MAR-10 12:55

Units: ug/kg

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

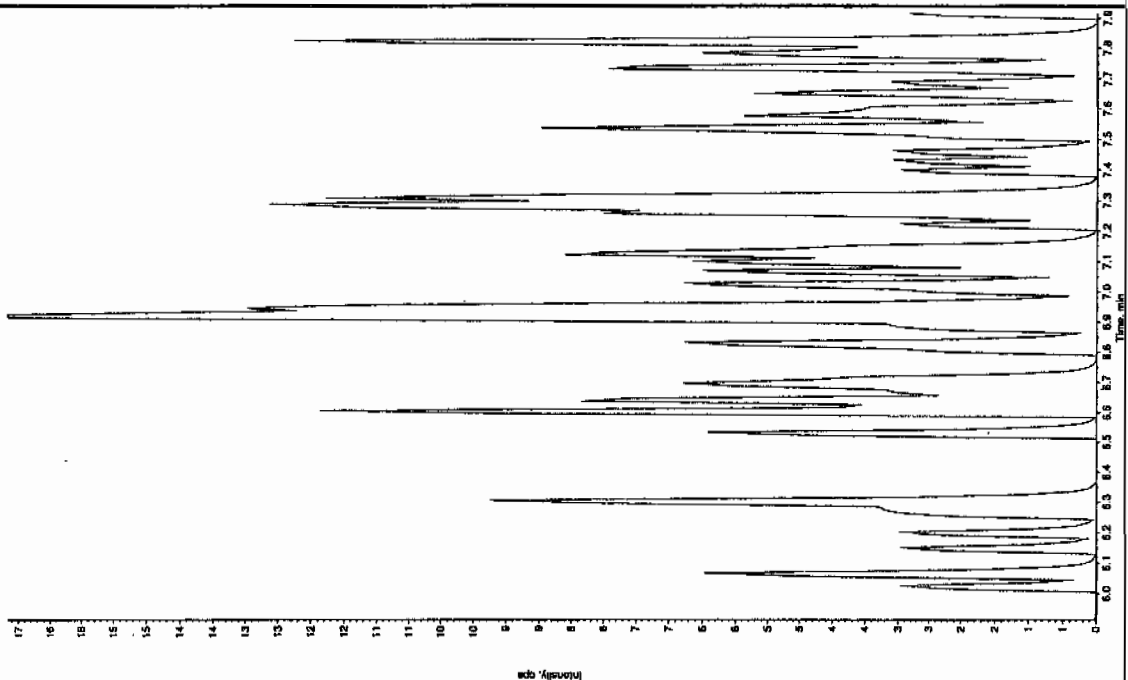
*Concentration =

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

Run 4/1/10

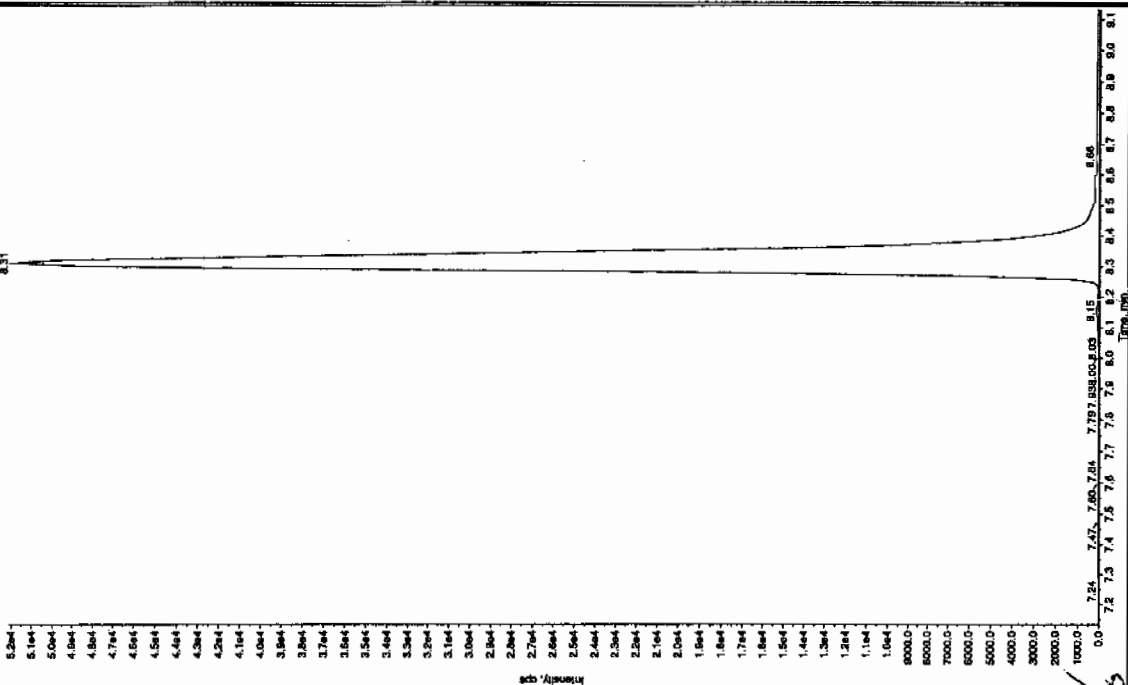
Sample Name: 247904017 Sample ID: 957702121.ER File: EX50250016.wif
Peak Name: 17.ATB Mass(es): 257.2204.9 amu
Comment: LCGC2125 Annotation:

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/29/2010
Acq. Time: 12:55:11 PM
Modified: No



Sample Name: 247904017 Sample ID: 957702121.ER File: EX50250016.wif
Peak Name: 35-Dinitrobenzyl Mass(es): 162.0466.0 amu
Comment: LCGC2125 Annotation:

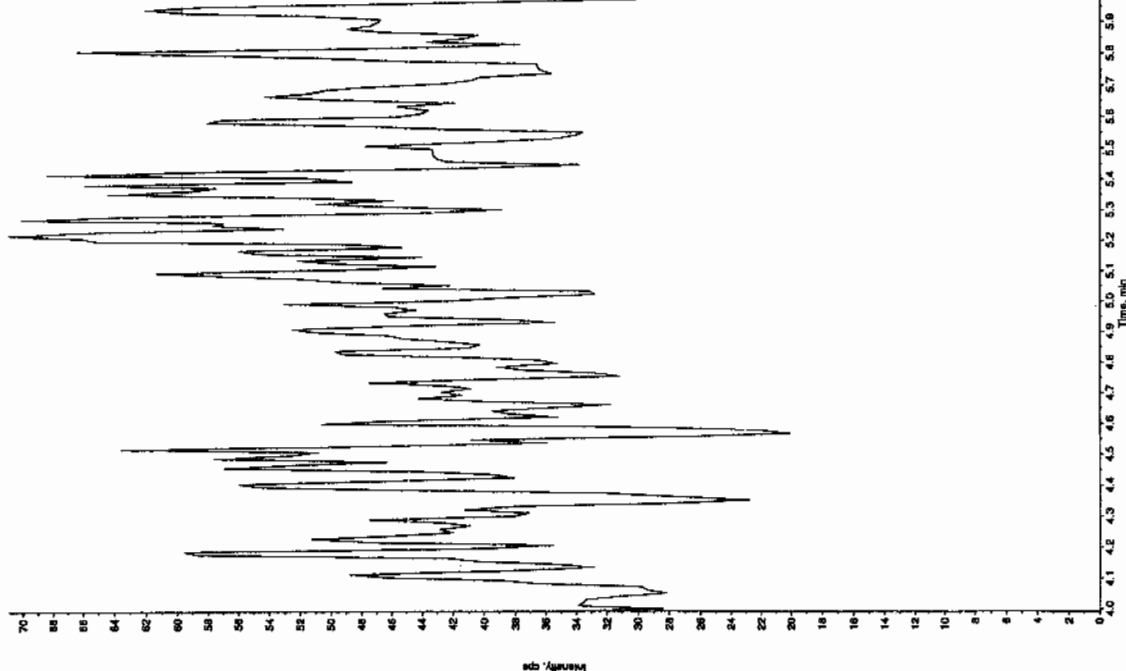
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/29/2010
Acq. Time: 12:55:11 PM
Modified: No



Run 4/1/10

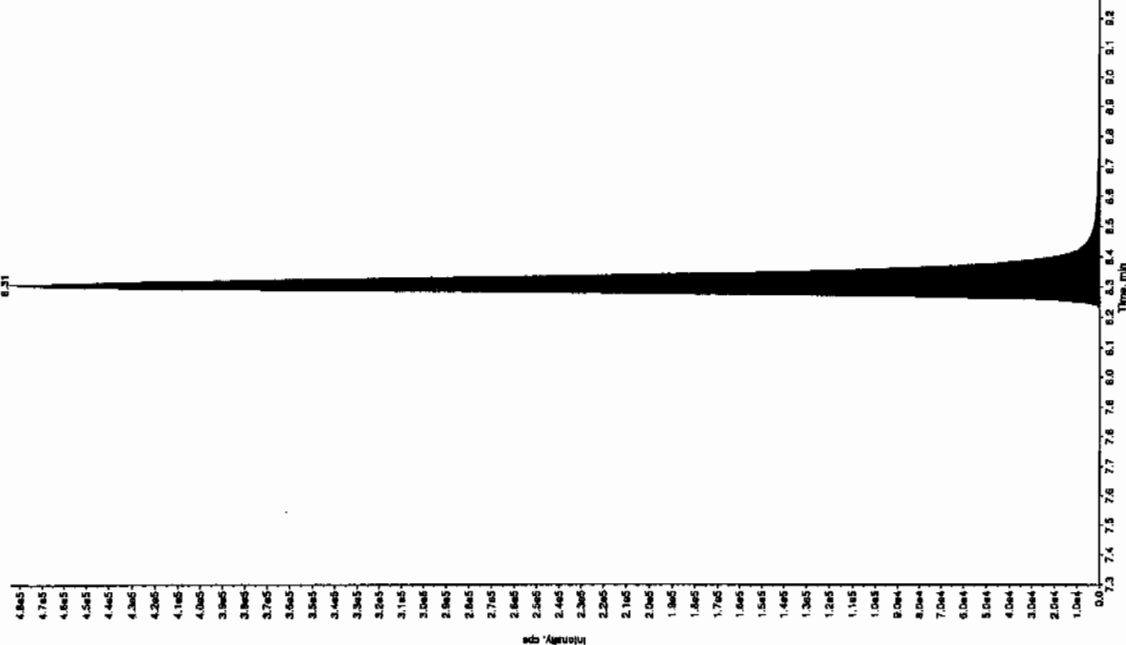
Sample Name: "247904017" Sample ID: "55770221LER" File: "EXS03290016.will"
 Peak Name: "26-Diamino-4-nitrotoleuene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:55:11 PM
 Modified: No



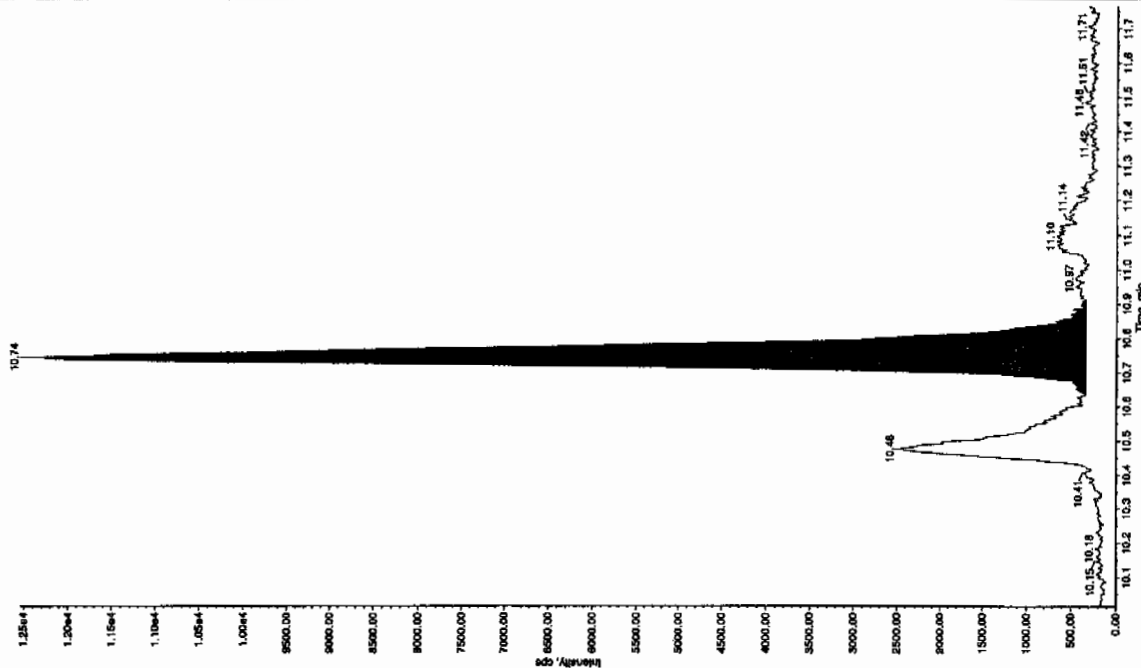
Sample Name: "247904017" Sample ID: "55770221LER" File: "EXS03290016.will"
 Peak Name: "34-Dinitrotoleuene" Mass(es): "182.1751.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 273. ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 12:55:11 PM
 Modified: No
 Proc. Algorithm: InterQuan - IQA
 Peak Height: 1480 cps
 Peak Width: 3.00 sec
 Peak Area: 15.0 points
 Expected RT: 8.30 min
 Observed RT: 8.31 min
 Int. Type: Valley
 Retention Time: 8.31 min
 Area: 1.93e+006 counts
 Height: 484187.225 cps
 Start Time: 8.20 min
 End Time: 8.50 min



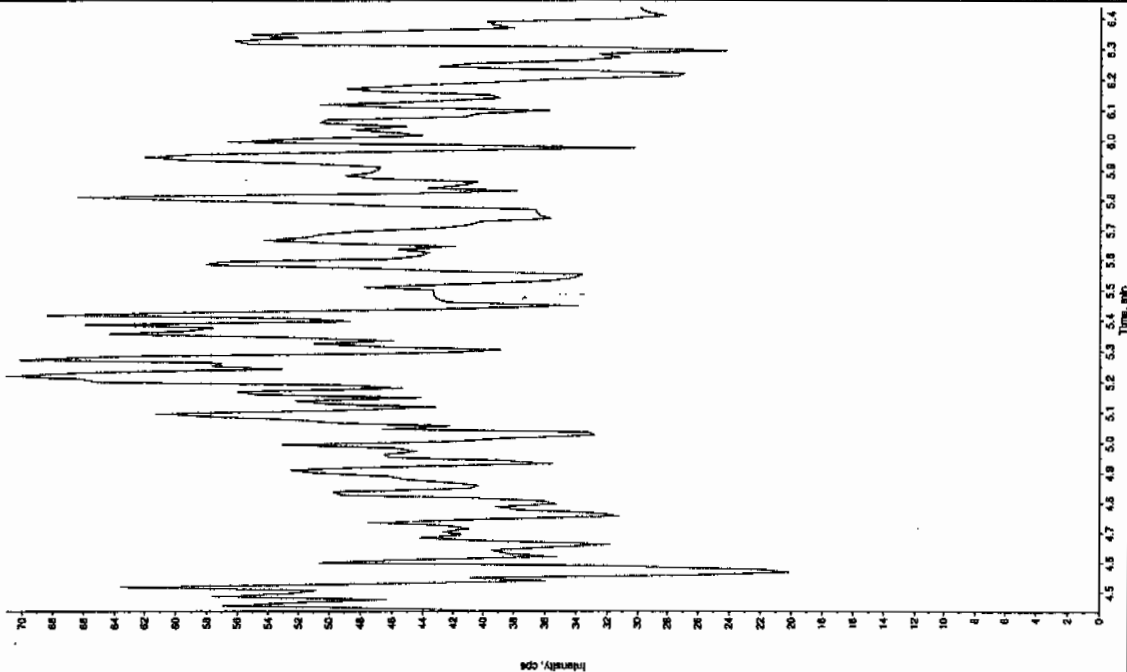
Sample Name: 247504017 Sample ID: 8577022 LER File: EXS03250016.wif
 Peak Name: tri(o-cresyl) phosphate' Mass(es): 369.1/91.0 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.67 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:55:11 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 4.93e+004 counts
 Height: 12197.560 cps
 Start Time: 10.6 min
 End Time: 10.9 min



Sample Name: 247504017 Sample ID: 8577022 LER File: EXS03250016.wif
 Peak Name: 24-Diamino-5-nitroindole' 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: 3/23/2010
 Acq. Time: 12:55:11 PM
 Modified: No



STANDARDS DATA

**SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels**

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MX	25	50	200	400	800	1000	na	600
TX	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)

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2012

Lab Code: GEL

Run Date: 08-APR-10.09-APR-10.22-MAR-10.29-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parameter	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0408003a	EXP0408004a	EXP0408005a	EXP0408006a	EXP0408007a	EXP0408008a			
Data File:									
1,3,5-Trinitrobenzene	4.687	4.464	3.962	4.008	4.099	4.121	4.224	6.807	
1,3-Dinitrobenzene-d4	13.523	13.591	13.387	13.023	12.673	11.779	12.996	5.301	
2,4,6-Trinitrotoluene	.332	.381	.371	.383	.429	.412	0.385	8.792	
2,4-Dinitrotoluene	.302	.264	.237	.241	.272	.273	0.265	9.006	
2,6-Dinitrotoluene	1.178	1.135	1.114	1.112	1.154	1.132	1.138	2.211	
2,6-Dinitrotoluene-d3	82.492	84.272	82.213	78.859	74.94	70.968	78.957	6.49	
2-Amino-4,6-dinitrotoluene	.404	.418	.456	.474	.496	.493	0.457	8.404	
3,4-Dinitrotoluene	.965	1.047	1.023	1.004	1.066	1.048	1.026	3.585	
4-Amino-2,6-dinitrotoluene	.311	.305	.298	.303	.328	.321	0.311	3.669	
HMX	3.229	3.048	3.107	3.23	3.277	3.275	3.194	2.968	
Nitrobenzene	.708	.557	.552	.603	.597	.59	0.601	9.362	
RDX	2.156	2.344	2.394	2.481	2.636	2.61	2.437	7.364	
Tetryl	.912	1.015	.955	1.05	1.137	1.108	1.030	8.455	
m-Dinitrobenzene	1.273	1.293	1.249	1.293	1.314	1.306	1.288	1.832	
m-Nitrotoluene	.063	.061	.049	.049	.049	.057	0.055	11.935	
o-Nitrotoluene	.089	.079	.071	.074	.076	.073	0.077	8.462	
p-Nitrotoluene	.038	.043	.037	.038	.039	.038	0.039	5.09	

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

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-2012
 Lab Code: GEL Run Date: 08-APR-10.09-APR-10.22-MAR-10.29-MAR-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:	EXP0408003a	EXP0408004a	EXP0408005a	EXP0408006a	EXP0408007a	EXP0408008a					
Parname:											
PETN	1630.9	3370.45	12155.9	21436.3	37797.5	42677.4	.732	-.0001338	3.275	.9999	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

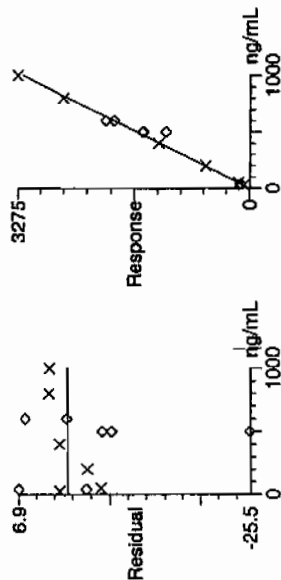
COD is Coefficient of Determination

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

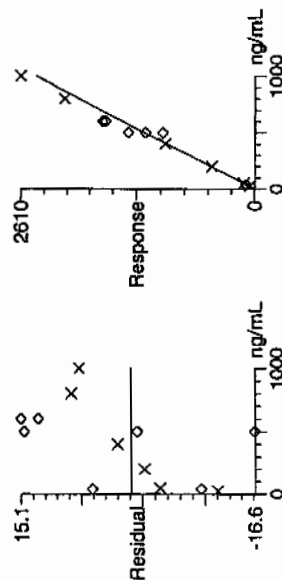
* Values outside of QC Limit

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\040810expa.mdb, Time: Fri Apr 09 10:24:44 2010
 Calibration: Untitled, Time: Fri Apr 09 10:54:52 2010

Compound name: HMX
 Response Factor: 3.19424
 RRF SD: 0.0948173, % Relative SD: 2.96839
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: RDX
 Response Factor: 2.43687
 RRF SD: 0.179446, % Relative SD: 7.36382
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF

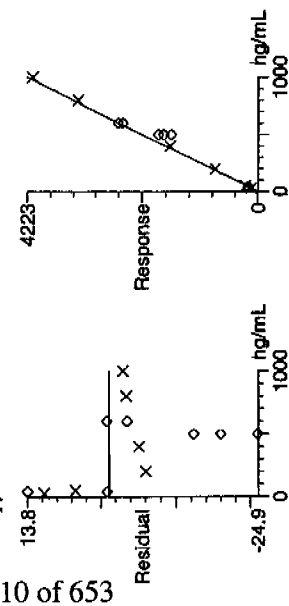


Quantify Calibration Report

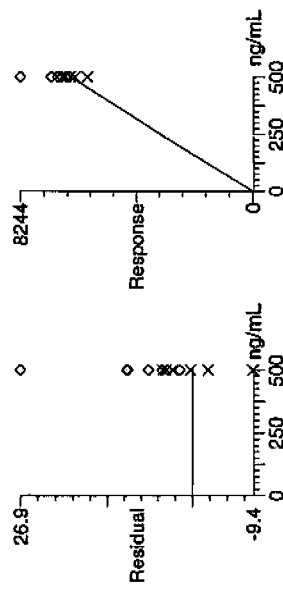
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 135-Trinitrobenzene
 Response Factor: 4.22335
 RRF SD: 0.287497, % Relative SD: 6.80733
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



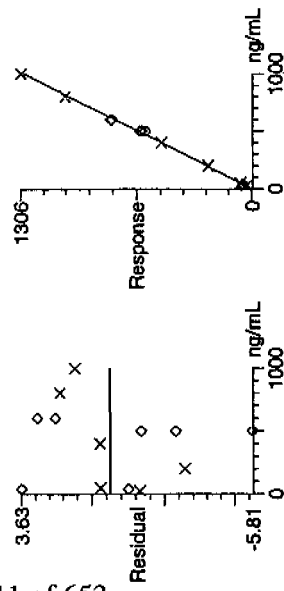
Compound name: 13-Dinitrobenzene-d4
 Response Factor: 12.9961
 RRF SD: 0.688911, % Relative SD: 5.30091
 Response type: External Std, Area
 Curve type: RF



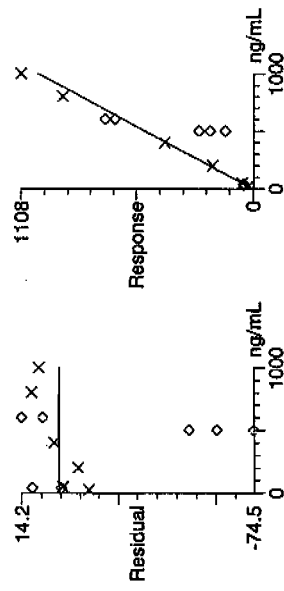
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 13-Dinitrobenzene
 Response Factor: 1.28787
 RRF SD: 0.0235993, % Relative SD: 1.83243
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: Rf



Compound name: Tetra
 Response Factor: 1.02957
 RRF SD: 0.0870508, % Relative SD: 8.45507
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: Rf



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

Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

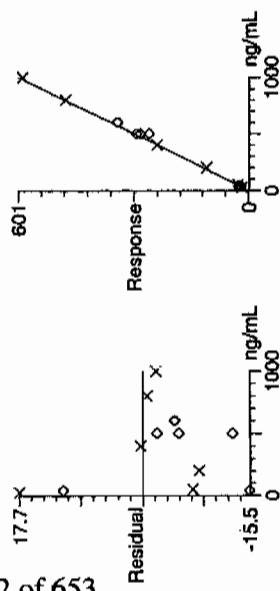
Compound name: Nitrobenzene

Response Factor: 0.601003

RRF SD: 0.0562669, % Relative SD: 9.36216

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

Curve type: RF



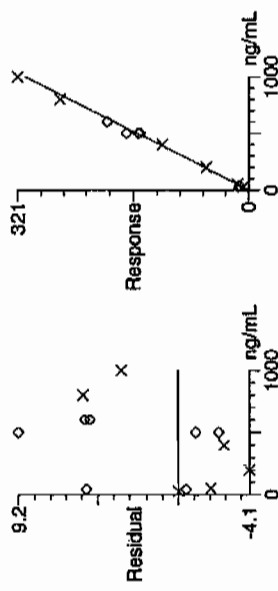
Compound name: 4-Amino-26-dinitrotoluene

Response Factor: 0.311292

RRF SD: 0.0114211, % Relative SD: 3.66892

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

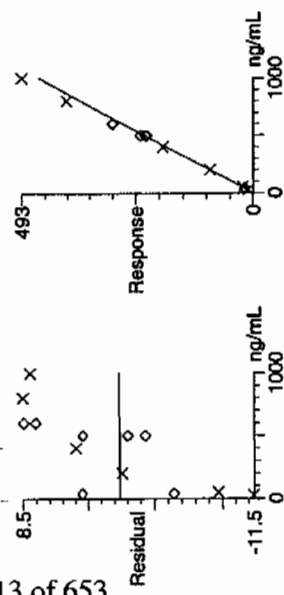
Curve type: RF



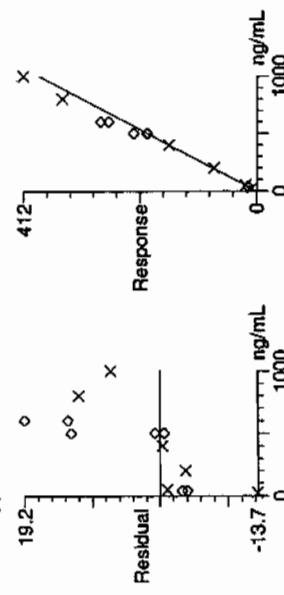
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.45683
RRF SD: 0.0383897, % Relative SD: 8.4035
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



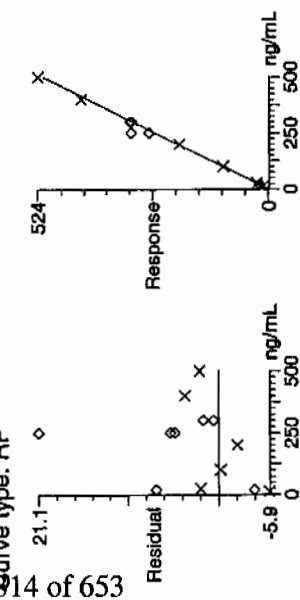
Compound name: 246-Trinitrotoluene
Response Factor: 0.384794
RRF SD: 0.038323, % Relative SD: 8.79231
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



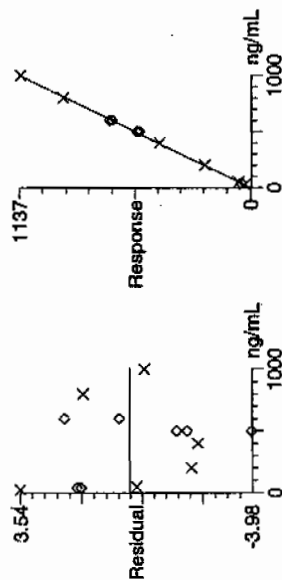
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 34-dinitrotoluene
 Response Factor: 1.02558
 RRF SD: 0.0367625, % Relative SD: 3.58456
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



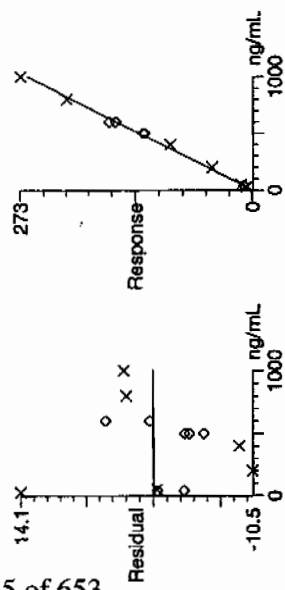
Compound name: 26-dinitrotoluene
 Response Factor: 1.13734
 RRF SD: 0.0251449, % Relative SD: 2.21085
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



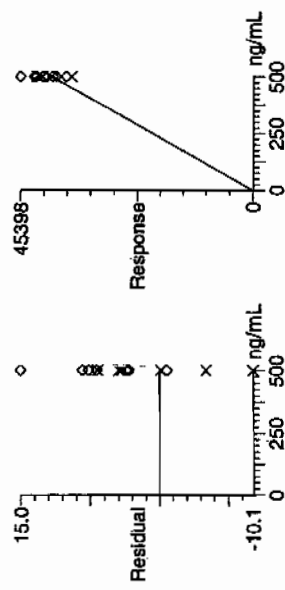
Quantity Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 24-dinitrotoluene
 Response Factor: 0.264734
 RRF SD: 0.0238421, % Relative SD: 9.00607
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



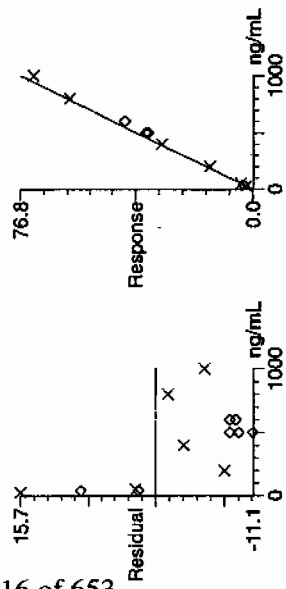
Compound name: 26-dinitrotoluene-d3
 Response Factor: 78.9572
 RRF SD: 5.12457, % Relative SD: 6.49031
 Response type: External Std, Area
 Curve type: RF



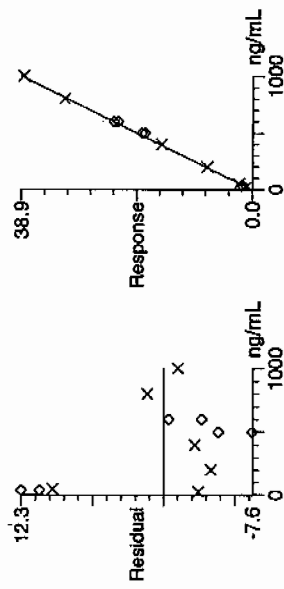
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 2-Nitrotoluene
 Response Factor: 0.0767614
 RRF SD: 0.00649593, % Relative SD: 8.46249
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



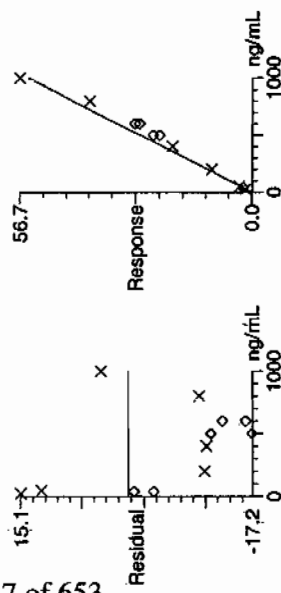
Compound name: 4-Nitrotoluene
 Response Factor: 0.0388638
 RRF SD: 0.00197819, % Relative SD: 5.09006
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



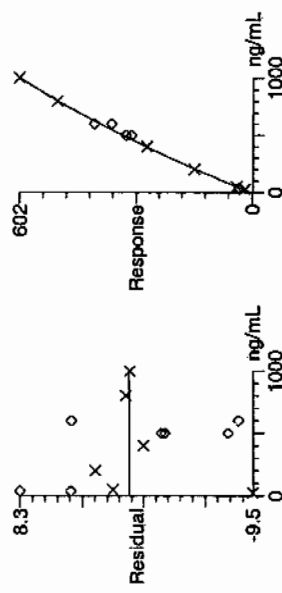
Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0545972
RRF SD: 0.00651612, % Relative SD: 11.9349
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Coefficient of Determination: 0.999915
Calibration curve: $-0.000133771 \cdot x^2 + 0.732159 \cdot x + 3.27481$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0408010a

Analysis Date: 09-APR-10 01:58

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	581.429	97	
1,3-Dinitrobenzene-d4	500	523.283	105	
2,4,6-Trinitrotoluene	600	678.465	113	
2,4-Dinitrotoluene	600	629.676	105	
2,6-Dinitrotoluene	600	612.703	102	
2,6-Dinitrotoluene-d3	500	516.716	103	
2-Amino-4,6-dinitrotoluene	600	650.562	108	
3,4-Dinitrotoluene	300	305.309	102	
4-Amino-2,6-dinitrotoluene	600	631.912	105	
HMX	600	600.63	100	
Nitrobenzene	600	573.106	96	
PETN	600	549.302	92	
RDX	600	676.458	113	
Tetryl	600	637.74	106	
m-Dinitrobenzene	600	613.434	102	
m-Nitrotoluene	600	502.386	84	
o-Nitrotoluene	600	545.024	91	
p-Nitrotoluene	600	597.413	100	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408010a

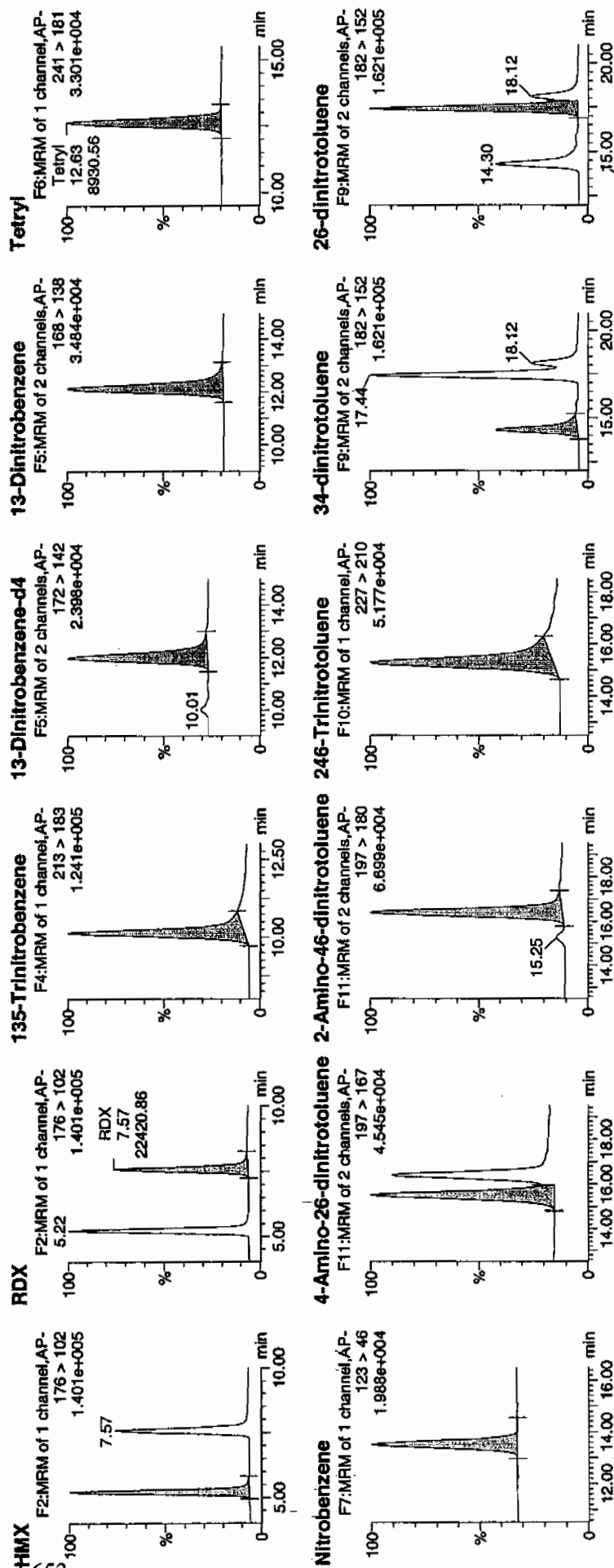
Date: 09-Apr-2010

Time: 01:58:08

ID: WXX100408-07ICV

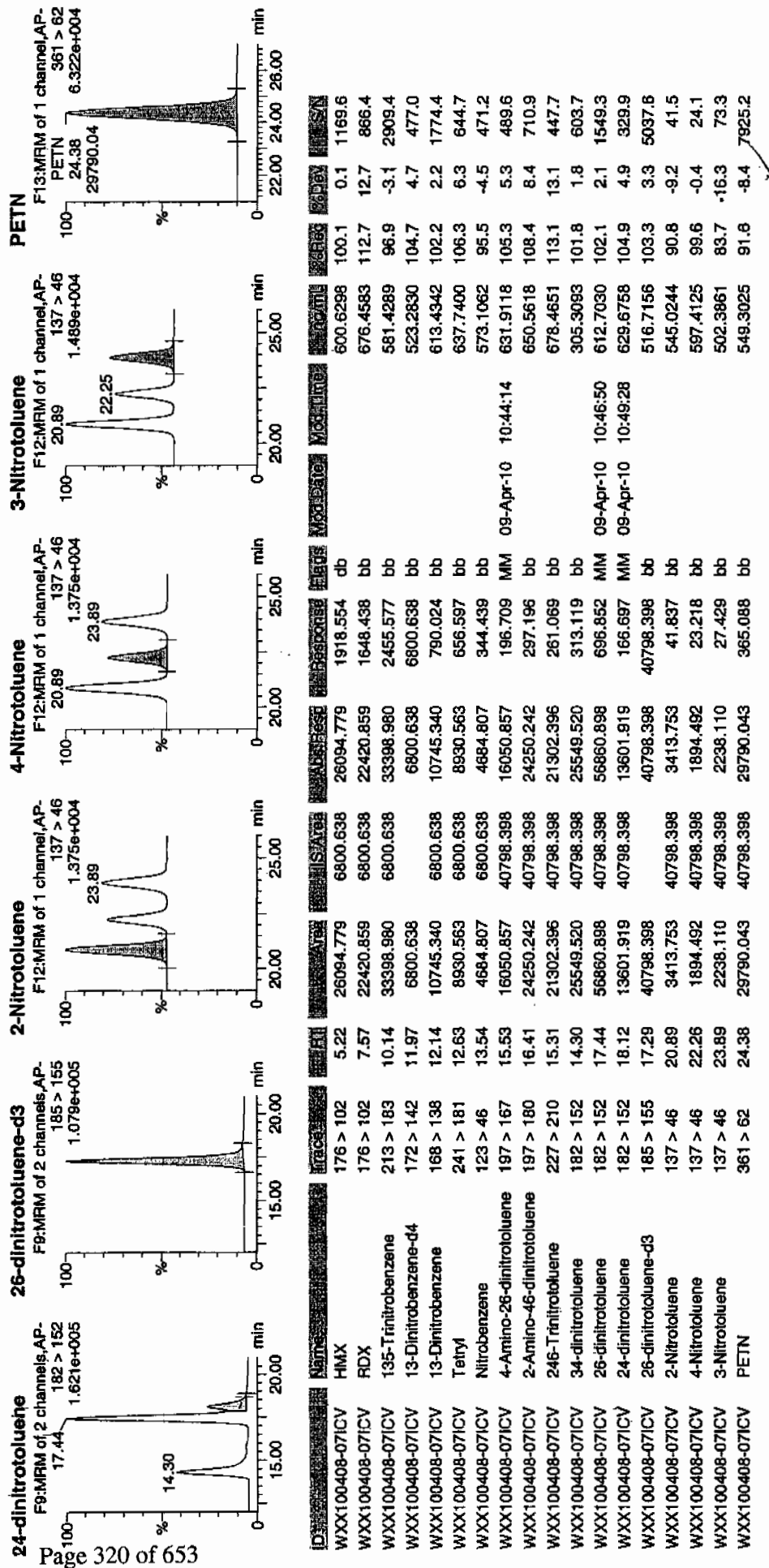
Vial: 1:1,B

µM
4/10/10



4/10/10

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/09/10
 Time of Injection: 0158
 Standard Number: WXX100408-07ICV
 Data File: EXP0408010a

HMX	100.1
RDX	112.7
135-TNB	96.9
13-DNB	102.2
Tetryl	106.3
Nitrobenzene	95.5
4A-26-DNT	105.3
2A-46-DNT	108.4
246-TNT	113.1
34-DNT(surr)	101.8
26-DNT	102.1
24-DNT	104.9
2-NT	90.8
4-NT	99.6
3-NT	83.7
PETN	91.6

*100.9
4/10/10*

Total 1615.0

Average 100.9

from 04/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-2012 Run Date: 08-APR-10.09-APR-10.22-MAR-10.29-MAR-10

Lab Code: GEL Method: 8321A Modified HPLC Column: YMC J-Sphere ODS-H8Q

LCMSMS Instrument ID: LCMSMS4

Calibration Type: 2nd Order

Calibration Level:	19	20	21	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03220003.wif	EXS03220004.wif	EXS03220005.wif	EXS03220007.wif	EXS03220008.wif	EXS03220009.wif					
Parname:											
2,4-Diamino-6-nitrotoluene	55200	101000	275000	737000	1000000	1740000	-1900	1100	-1.114	.9998	
2,6-Diamino-4-nitrotoluene	85700	164000	428000	1170000	1480000	2740000	13100	1610	-1.126	.9999	
3,4-Dinitrotoluene	268000	530000	1370000	3770000	4960000	9320000	361	11500	-2.17	.9989	
3,5-Dinitroaniline	426000	820000	2160000	5770000	7430000	13800000	79000	7960	-5.47	.9999	
TATB	68300	137000	388000	1200000	1580000	4020000	26300	1210	.391	.9997	
tris(o-cresyl) phosphate	653000	1280000	3020000	9020000	11500000	20500000	-26500	13000	-1.35	1	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

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

* Values outside of QC Limit

032210ICAL

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

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

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

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

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

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

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

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

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

Handwritten: 3/27/10

Handwritten: 4/10/2010

032210ICAL

Iterate No

None

weighting

Quadratic

-1.9e+003

a1 1.1e+003

a2 -0.114

Correlation coefficient 0.9998

Use Area

Peak Name: tris(o-cresyl) phosphate

No Internal Standard

Q1/Q3 Masses: 369.15/91.00 amu

Iterate No

None

weighting

Quadratic

-2.65e+004

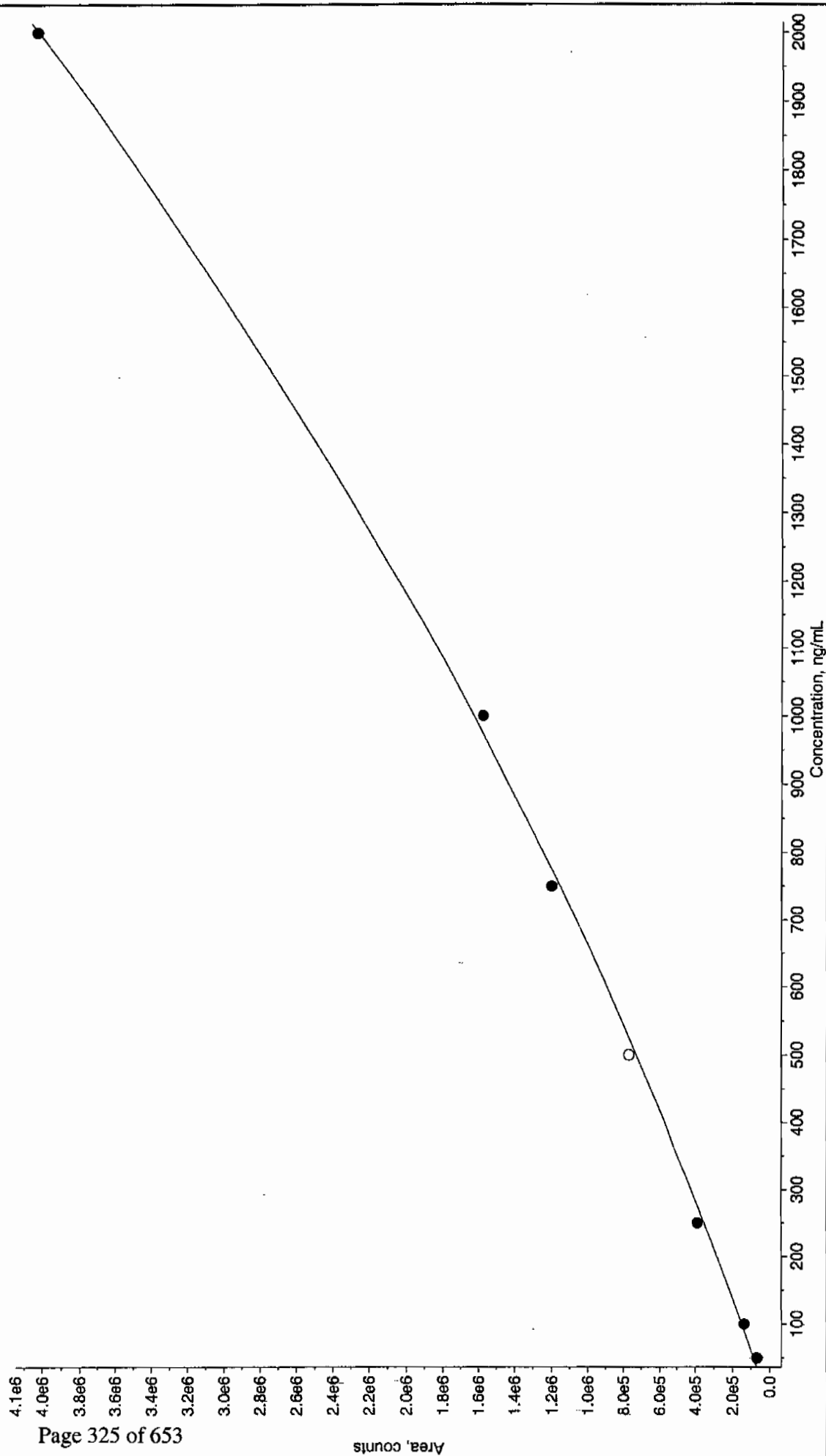
a1 1.3e+004

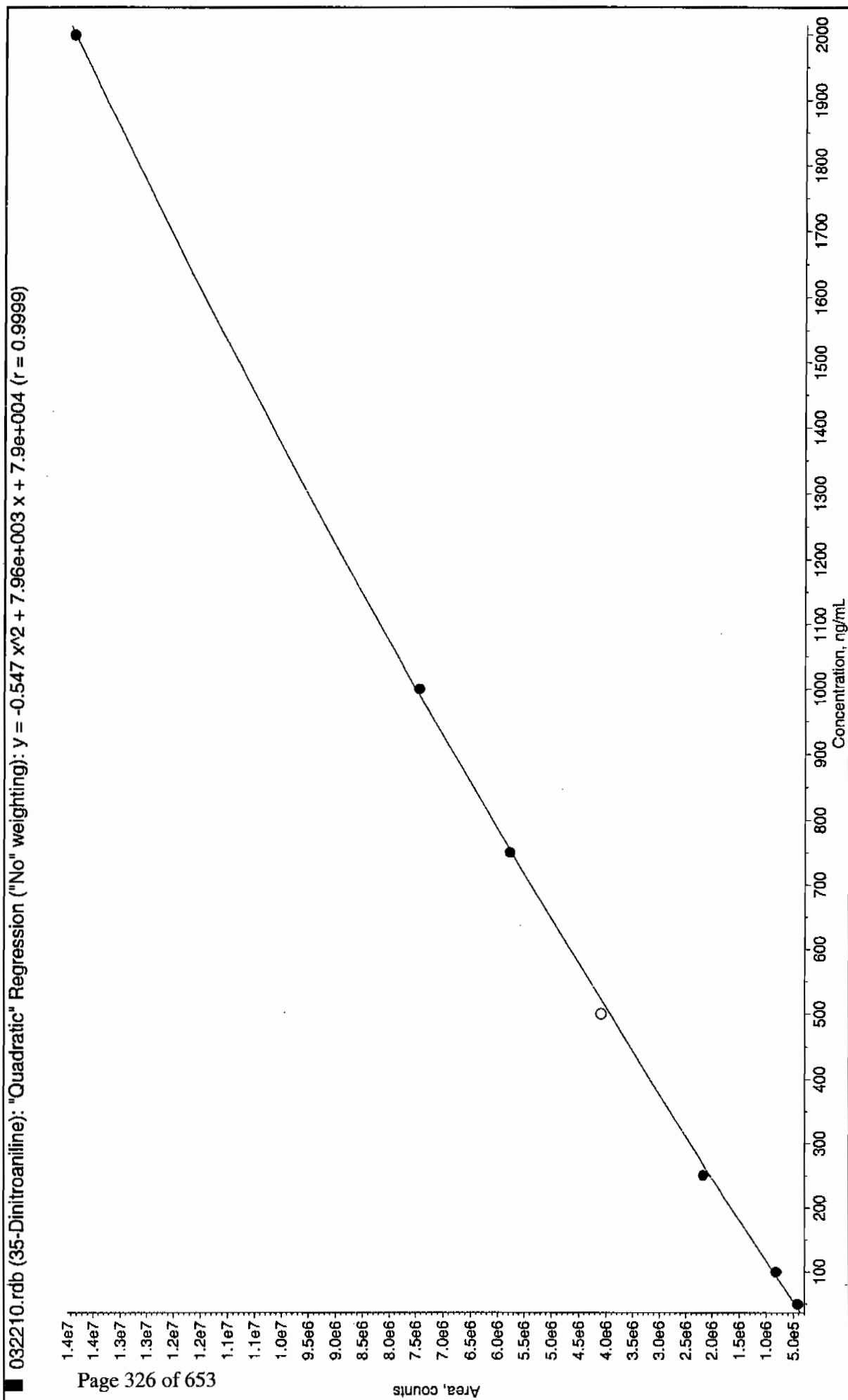
a2 -1.35

Correlation coefficient 1.0000

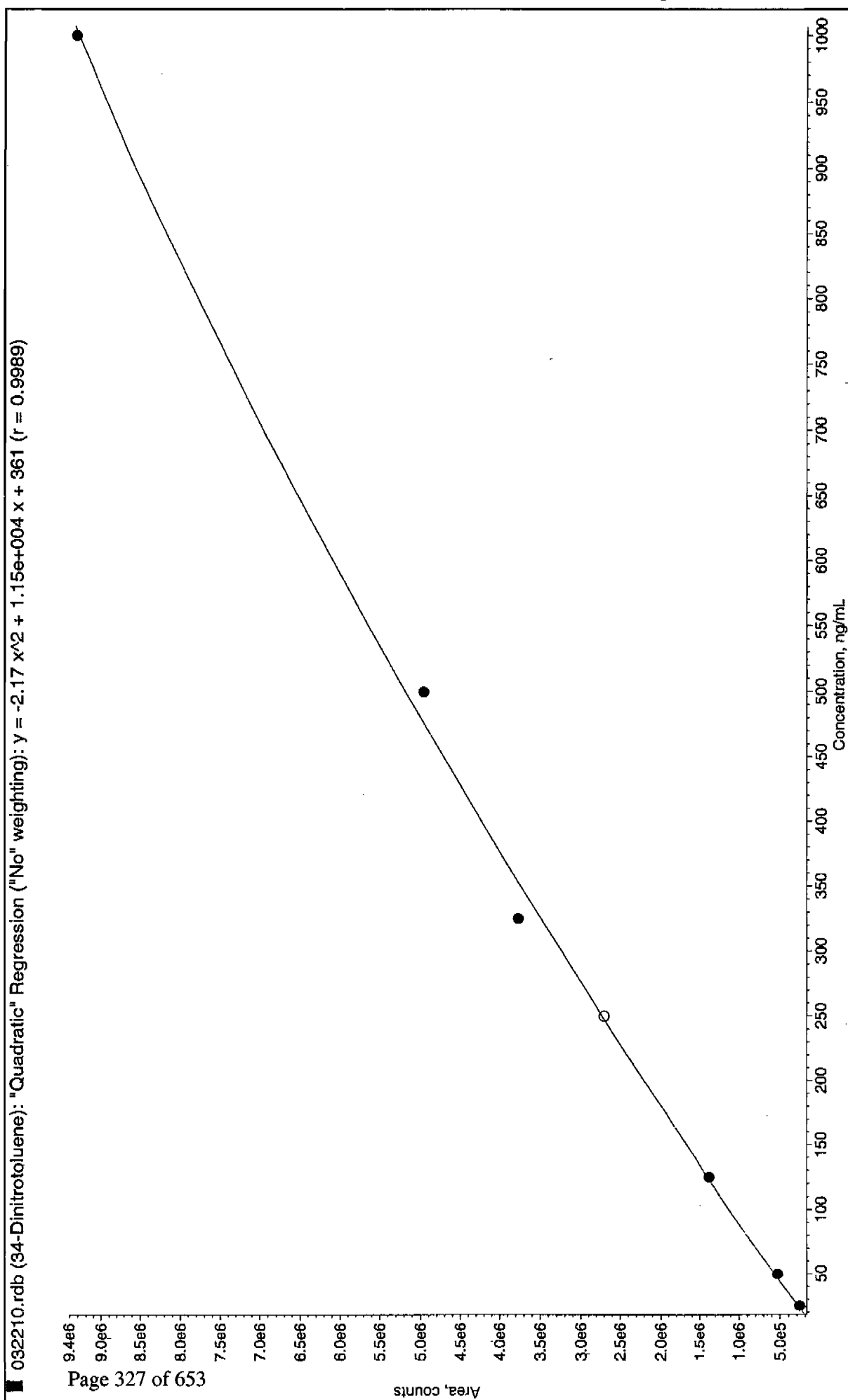
Use Area

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

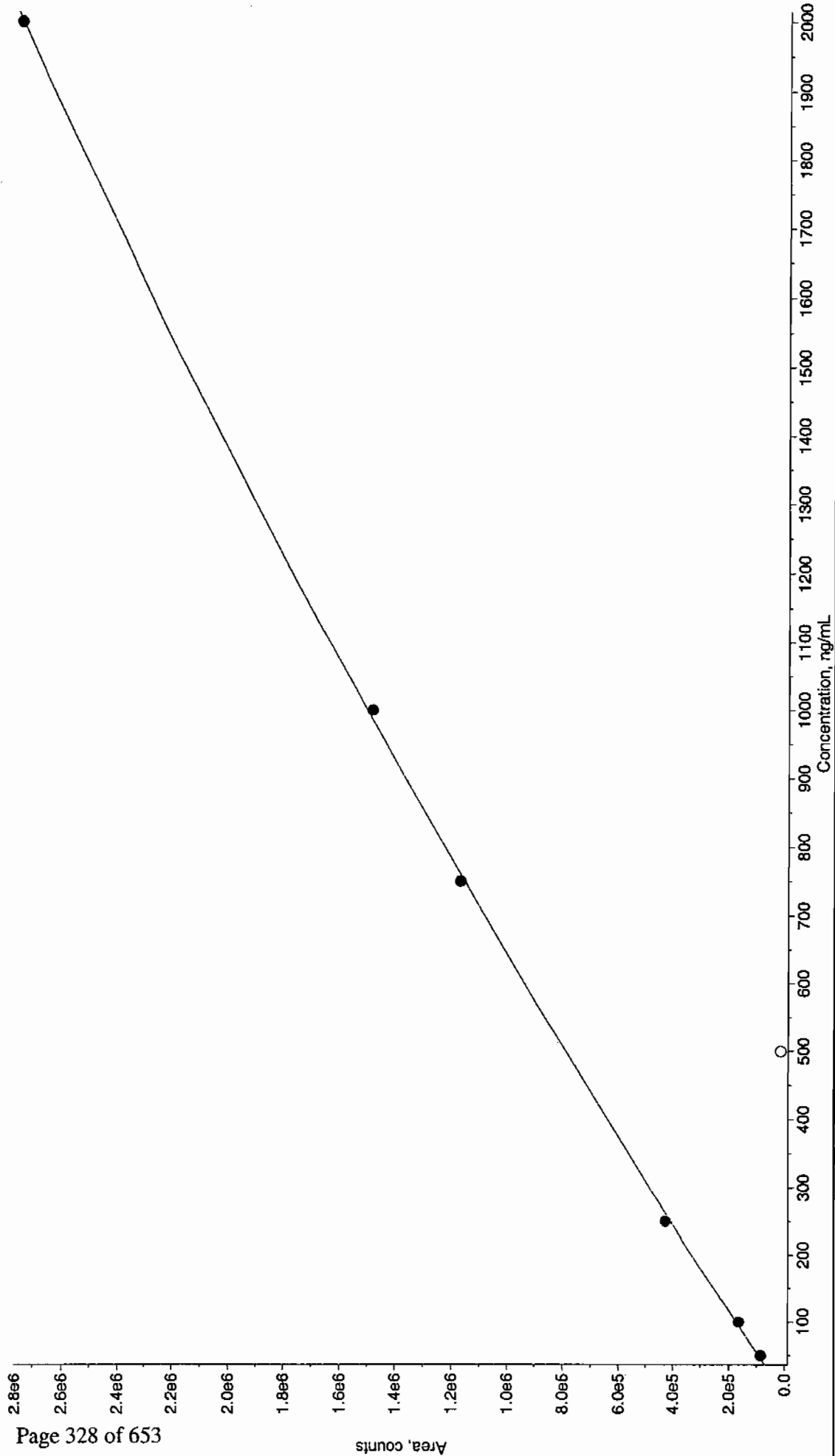


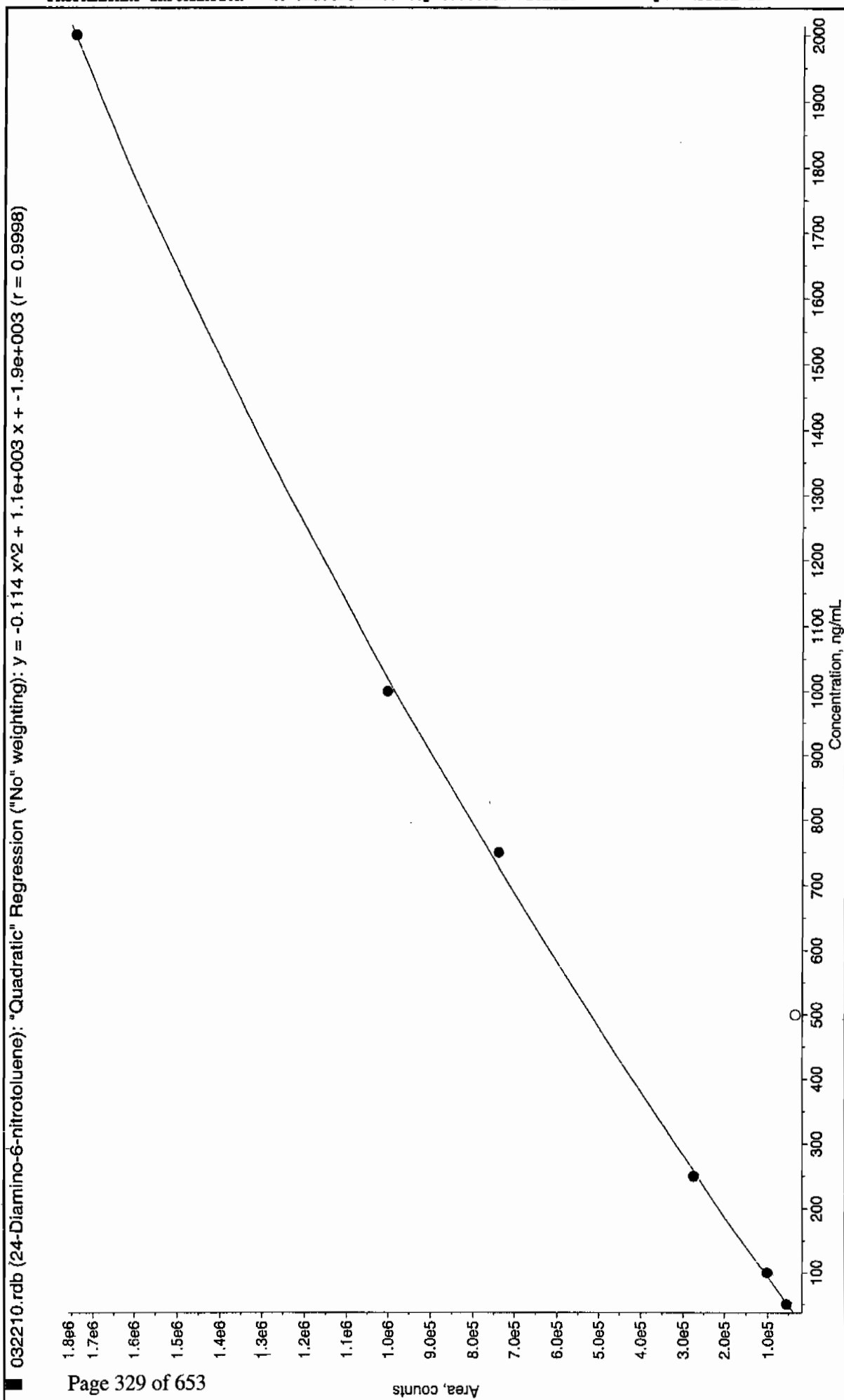


032210.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.17 x^2 + 1.15e+004 x + 361$ ($r = 0.9989$)

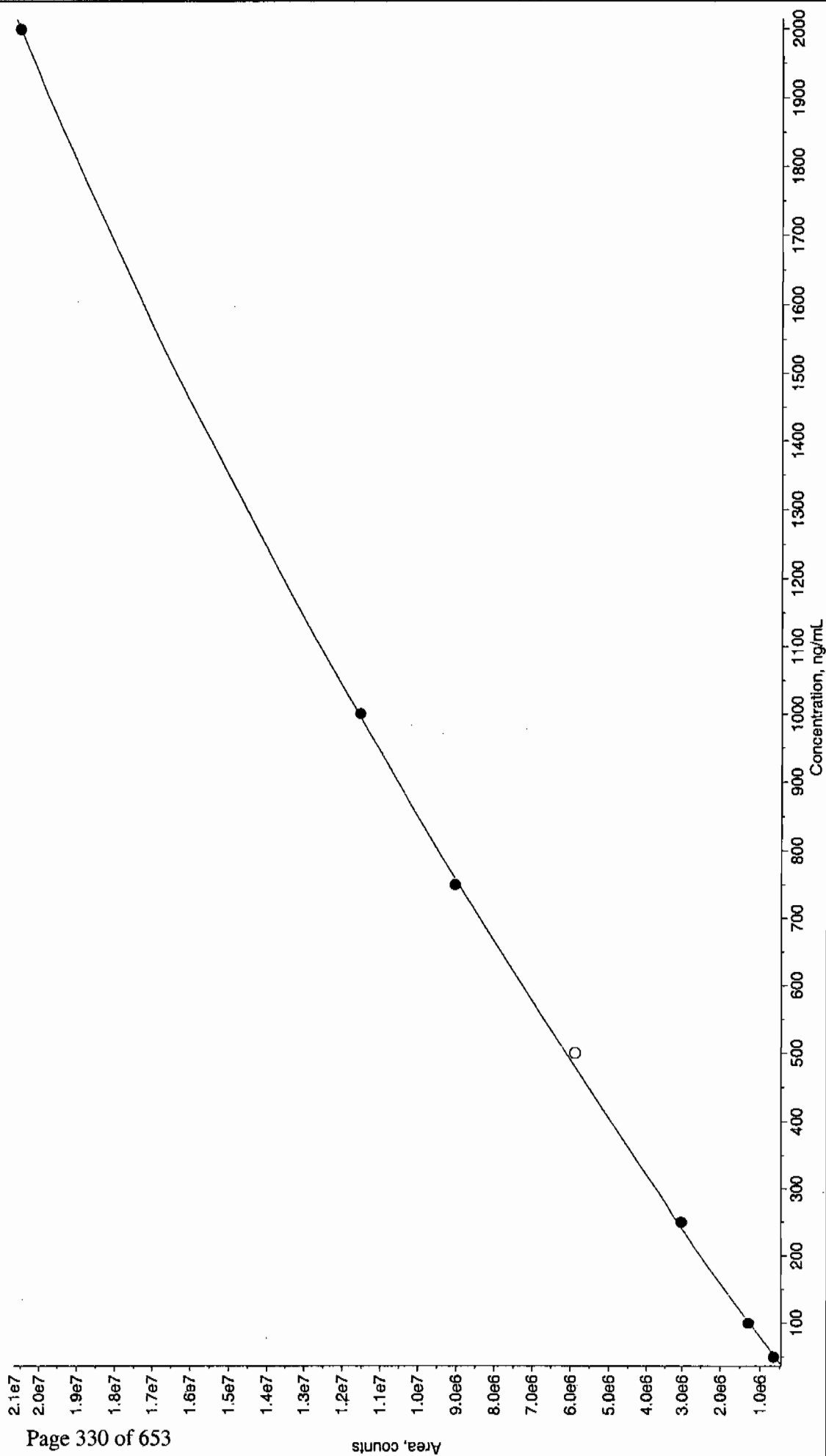


032210.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.126 x^2 + 1.61e+003 x + 1.31e+004$ ($r = 0.9999$)





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



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03220011.wiff

Analysis Date: 22-MAR-10 17:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

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

Other Target Analytes 80-120%

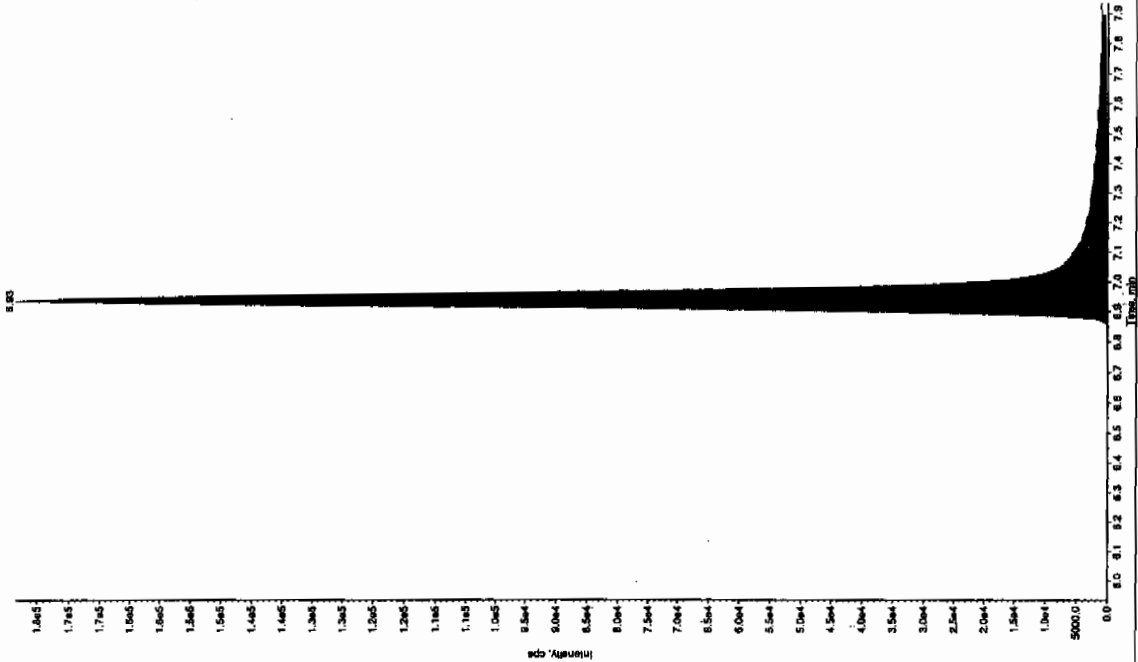
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

80A 3/27/10

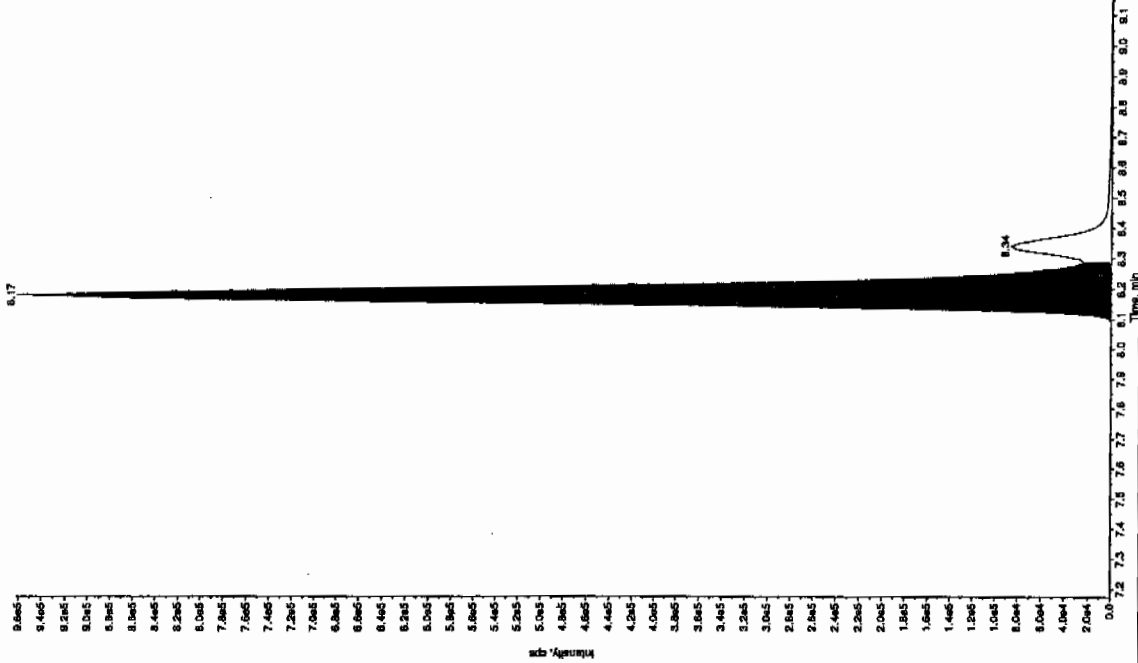
Sample Name: "WXX100322-280V" Sample ID: "111ER" File: "EXS0322011.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 541. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:50:03 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 7.96e+005 counts
 Height: 178520.001 cps
 Start Time: 6.84 min
 End Time: 7.90 min

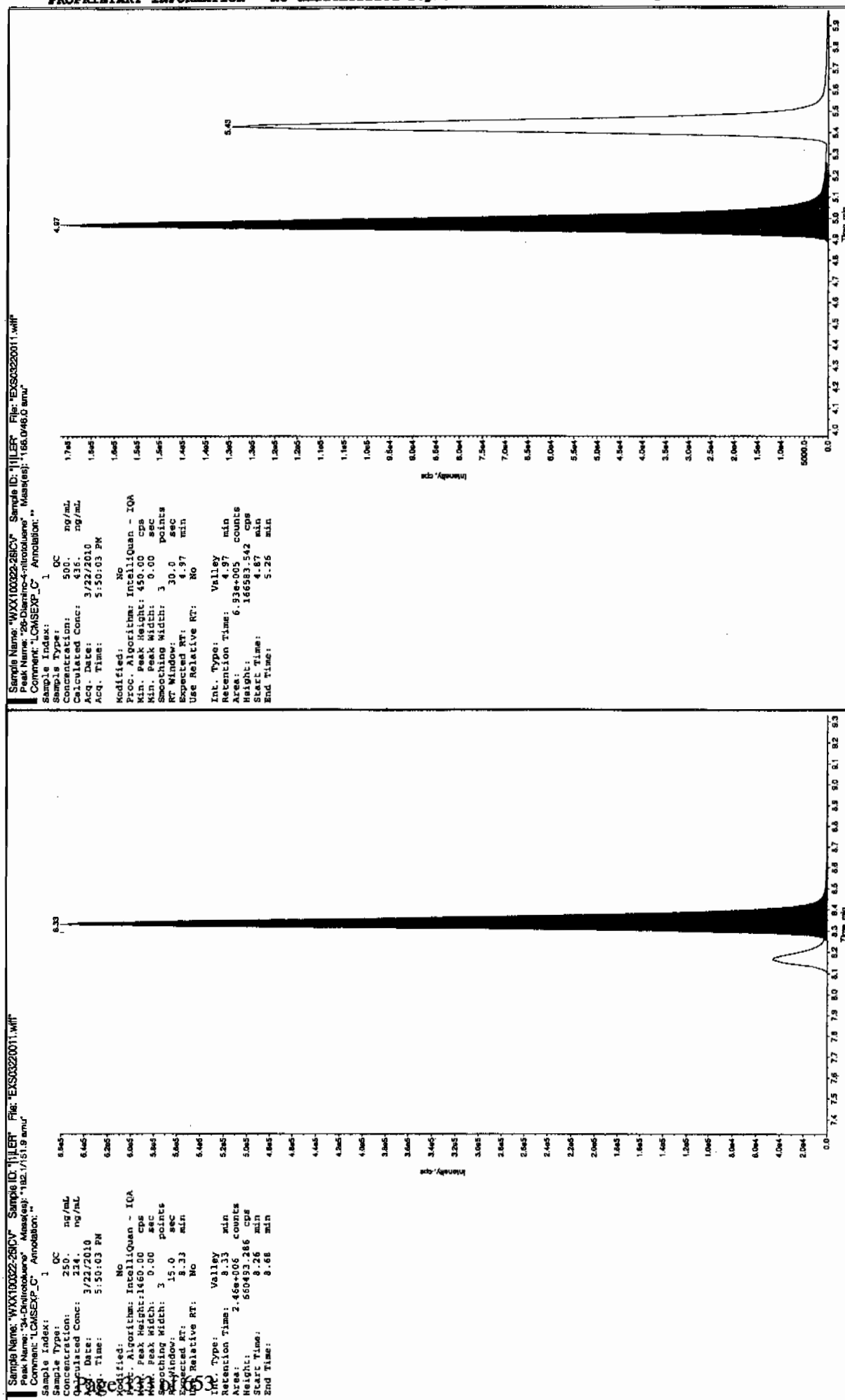


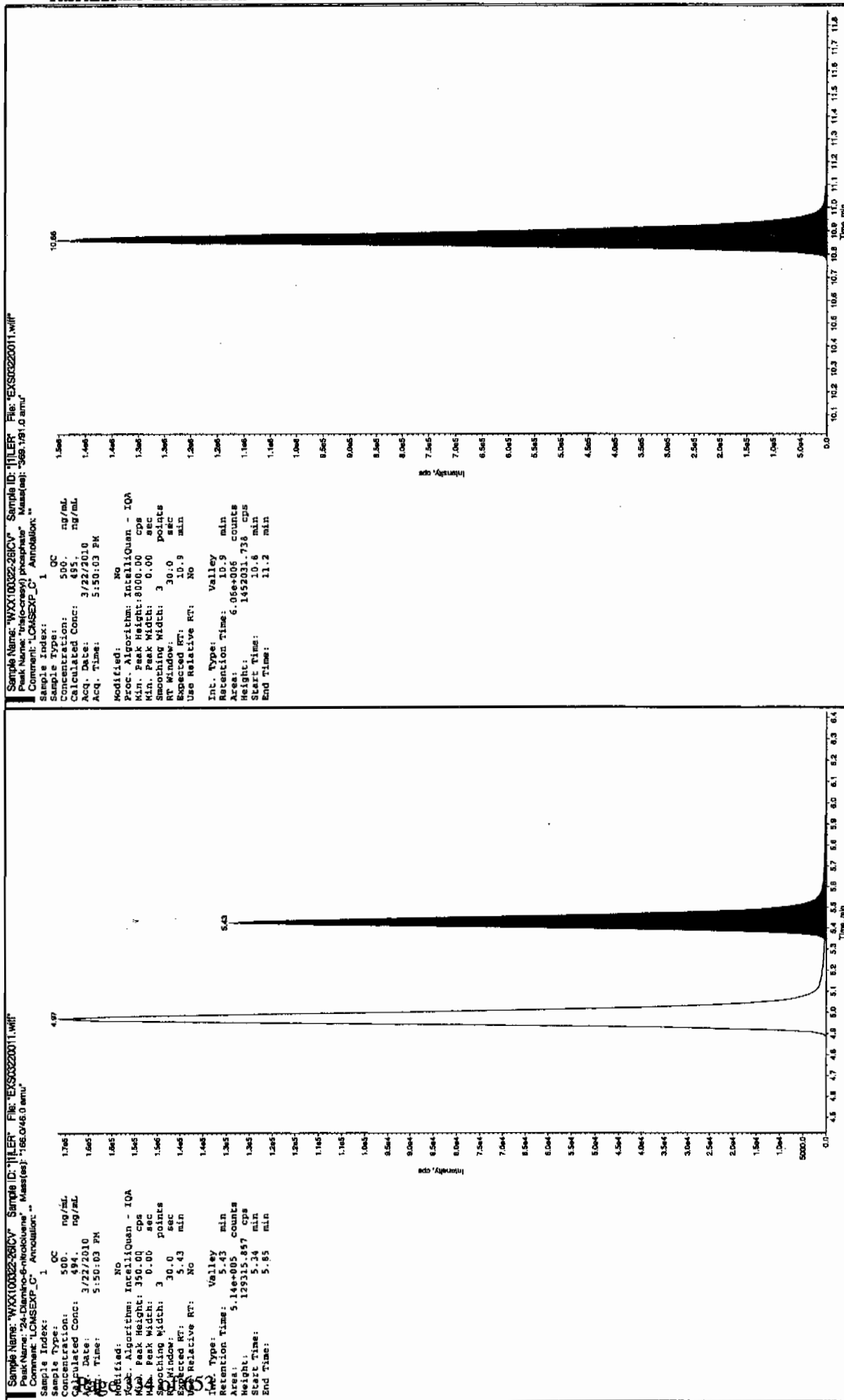
Sample Name: "WXX100322-280V" Sample ID: "111ER" File: "EXS0322011.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0460.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 487. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:50:03 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 3.83e+006 counts
 Height: 961358.118 cps
 Start Time: 8.08 min
 End Time: 8.29 min



4/16/03/29/10





Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2012

Lab Code: GEL

Run Date: 08-APR-10.09-APR-10.22-MAR-10.29-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03290003.wif	EXS03290004.wif	EXS03290005.wif	EXS03290006.wif	EXS03290007.wif	EXS03290008.wif	EXS03290009.wif					
Parname:												
2,4-Diamino-6-nitrotoluene	71400	135000	334000	647000	1100000	1350000	2660000	-11100	1430	-.045	.9993	
2,6-Diamino-4-nitrotoluene	92600	179000	448000	902000	1400000	1680000	3350000	4360	1820	-.076	.9993	
3,4-Dinitrotoluene	186000	382000	933000	1680000	2590000	3160000	6100000	36600	7280	-1.24	.9969	
3,5-Dinitroaniline	281000	555000	1380000	2620000	3600000	4800000	8990000	79100	5020	-.285	.9998	
TATB	24200	54100	136000	271000	429000	600000	1190000	-9280	588	.005	.9997	
tris(o-cresyl) phosphate	955000	1890000	4480000	8460000	12700000	15900000	26500000	18300	18600	-2.66	.9999	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.9990)

* Values outside of QC Limit

032910ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-9.28e+003			
a1	588			
a2	0.0052			

Correlation coefficient 0.9997
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	7.91e+004			
a1	5.02e+003			
a2	-0.285			

Correlation coefficient 0.9998
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	3.66e+004			
a1	7.28e+003			
a2	-1.24			

Correlation coefficient 0.9969
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	4.36e+003			
a1	1.82e+003			
a2	-0.0755			

Correlation coefficient 0.9993
Use Area

Handwritten: 4/11/00

Handwritten: 04/11/00

032910ICAL

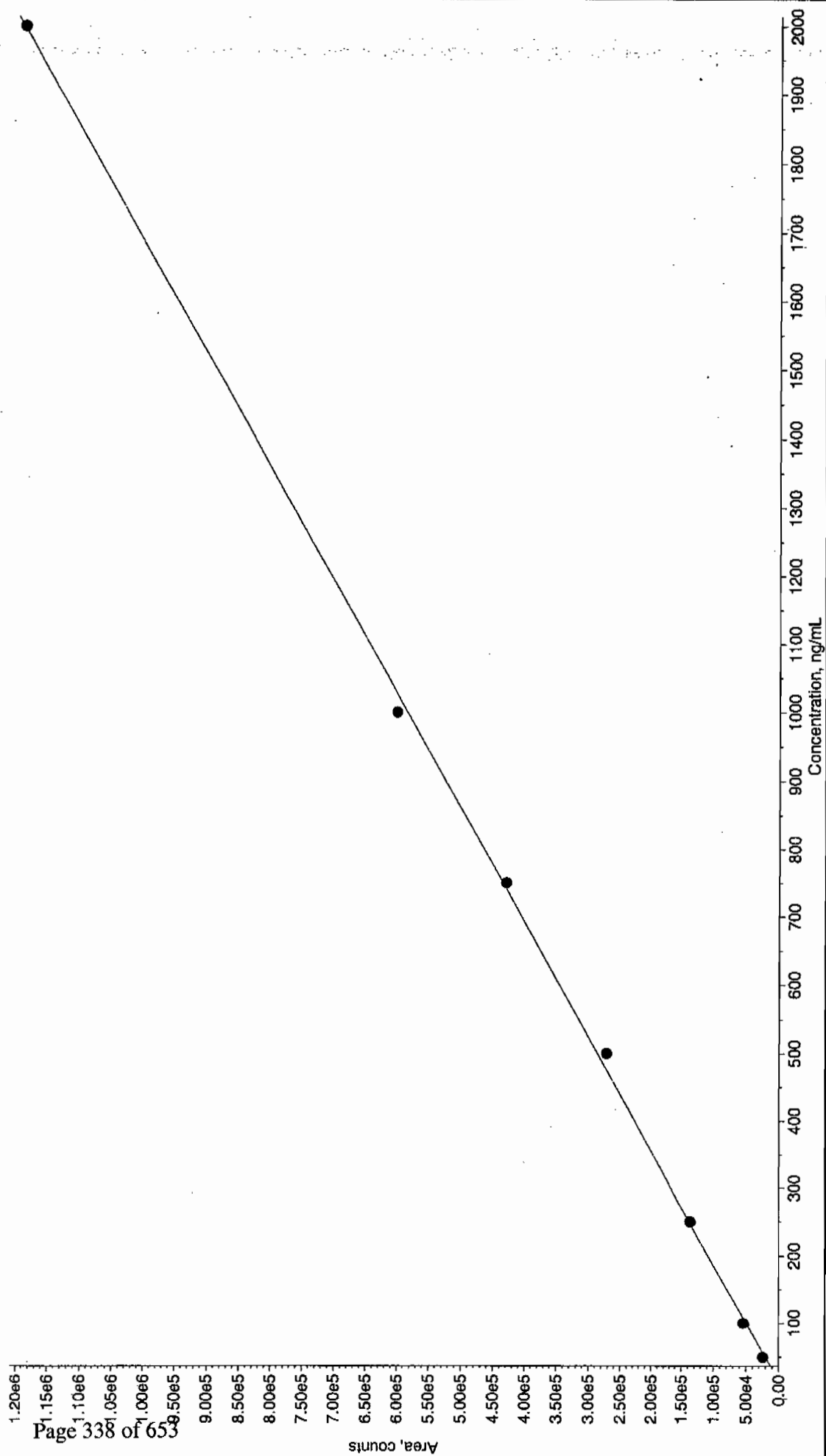
Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	weighting	None	Iterate No
a0	-1.11e+004			
a1	1.43e+003			
a2	-0.0452			
Correlation coefficient 0.9993				
Use Area				

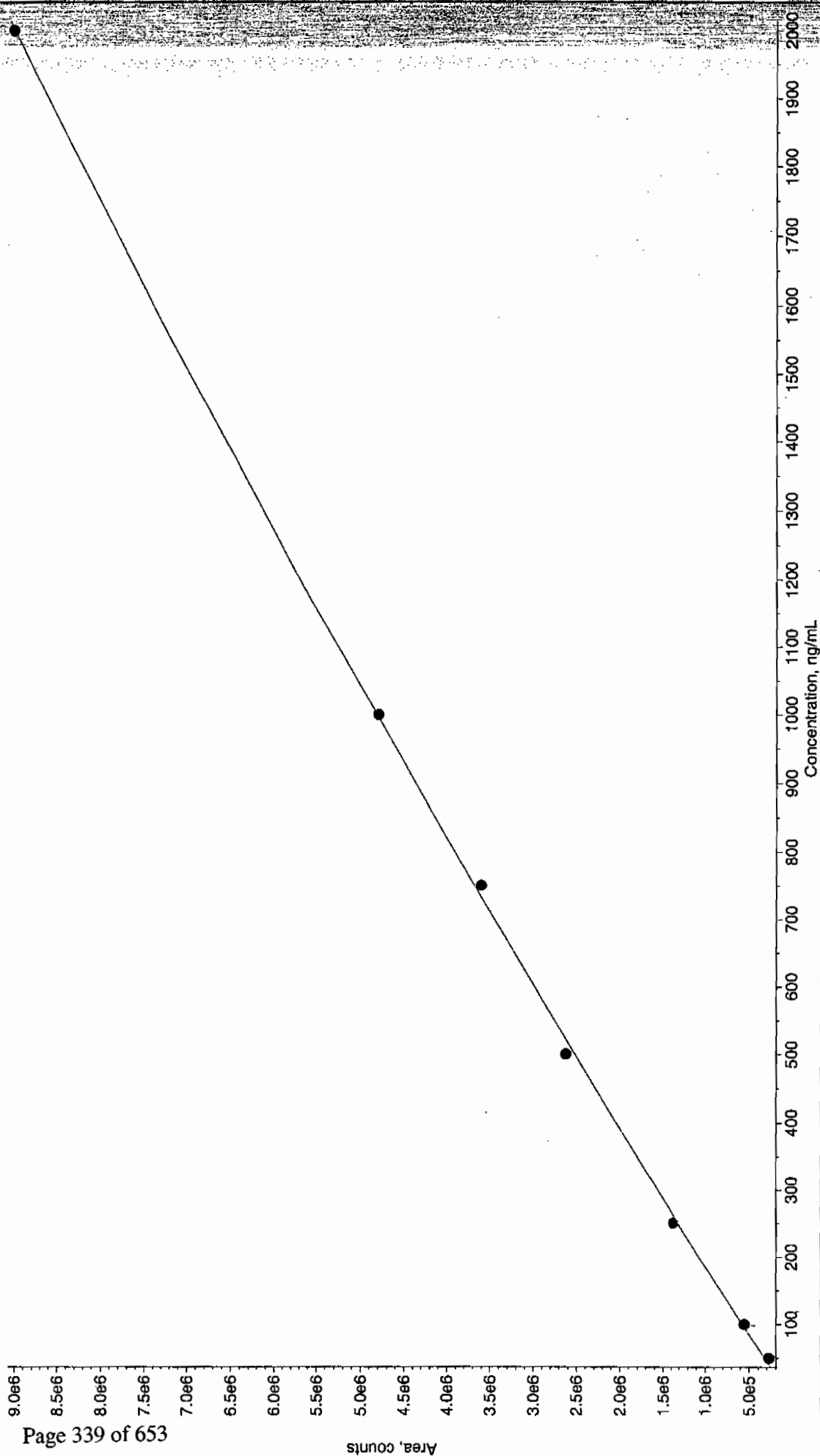
Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Fit	Quadratic	weighting	None	Iterate No
a0	1.83e+004			
a1	1.86e+004			
a2	-2.66			
Correlation coefficient 0.9999				
Use Area				

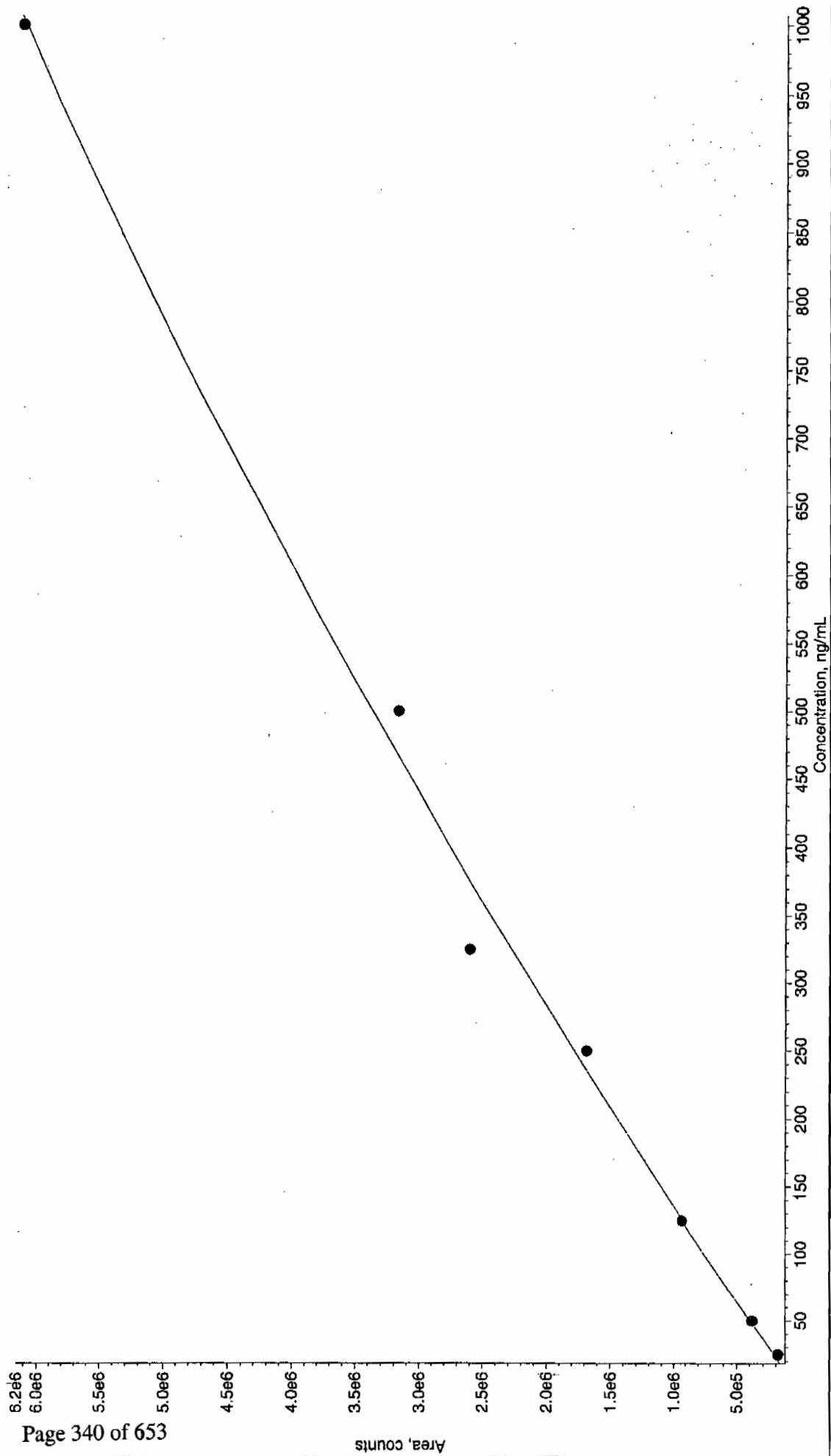
032910.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0052 x^2 + 588 x + -9.28e+003$ ($r = 0.9997$)



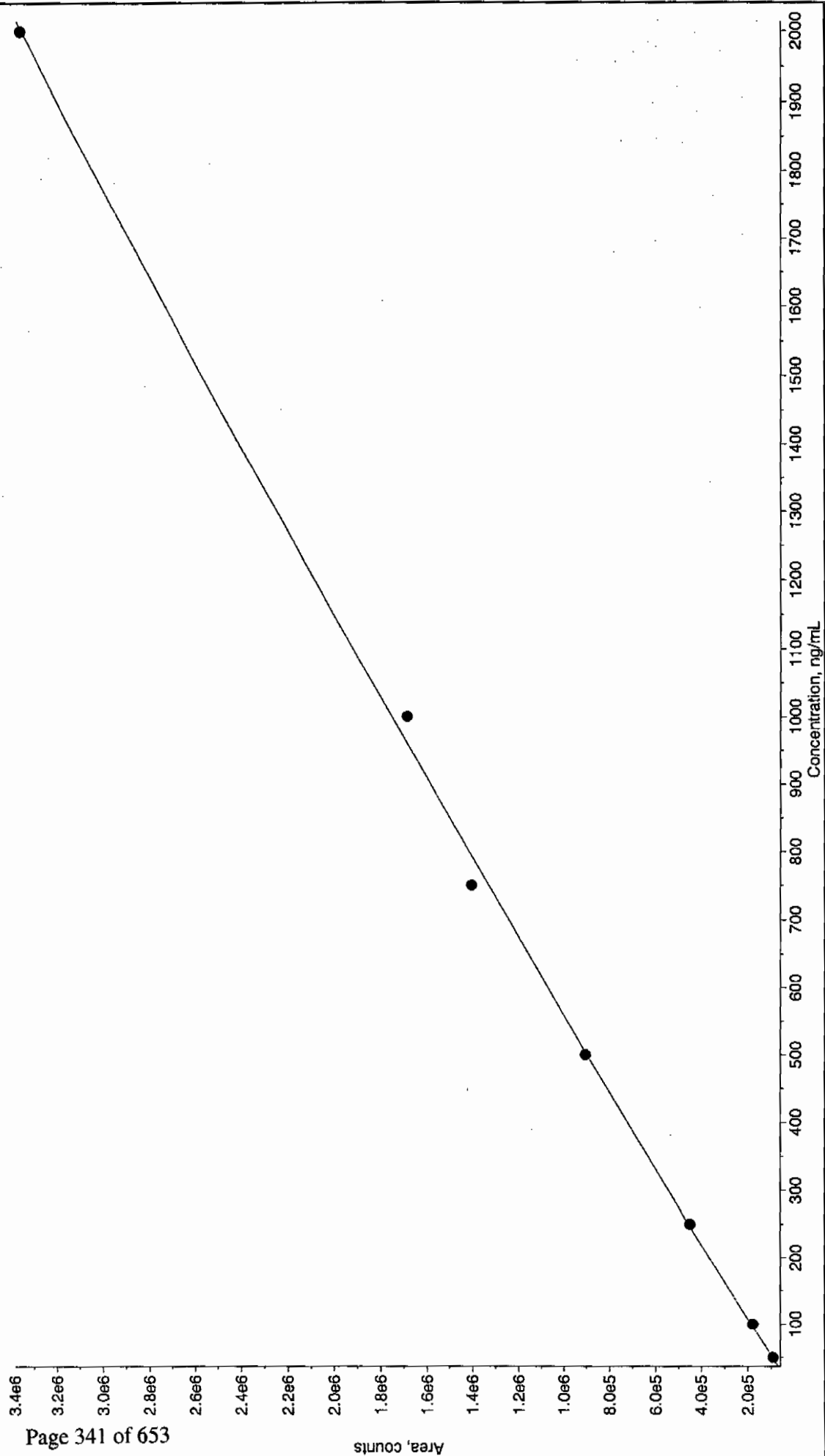
032910.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.285x^2 + 5.02e+003x + 7.91e+004$ ($r = 0.9998$)



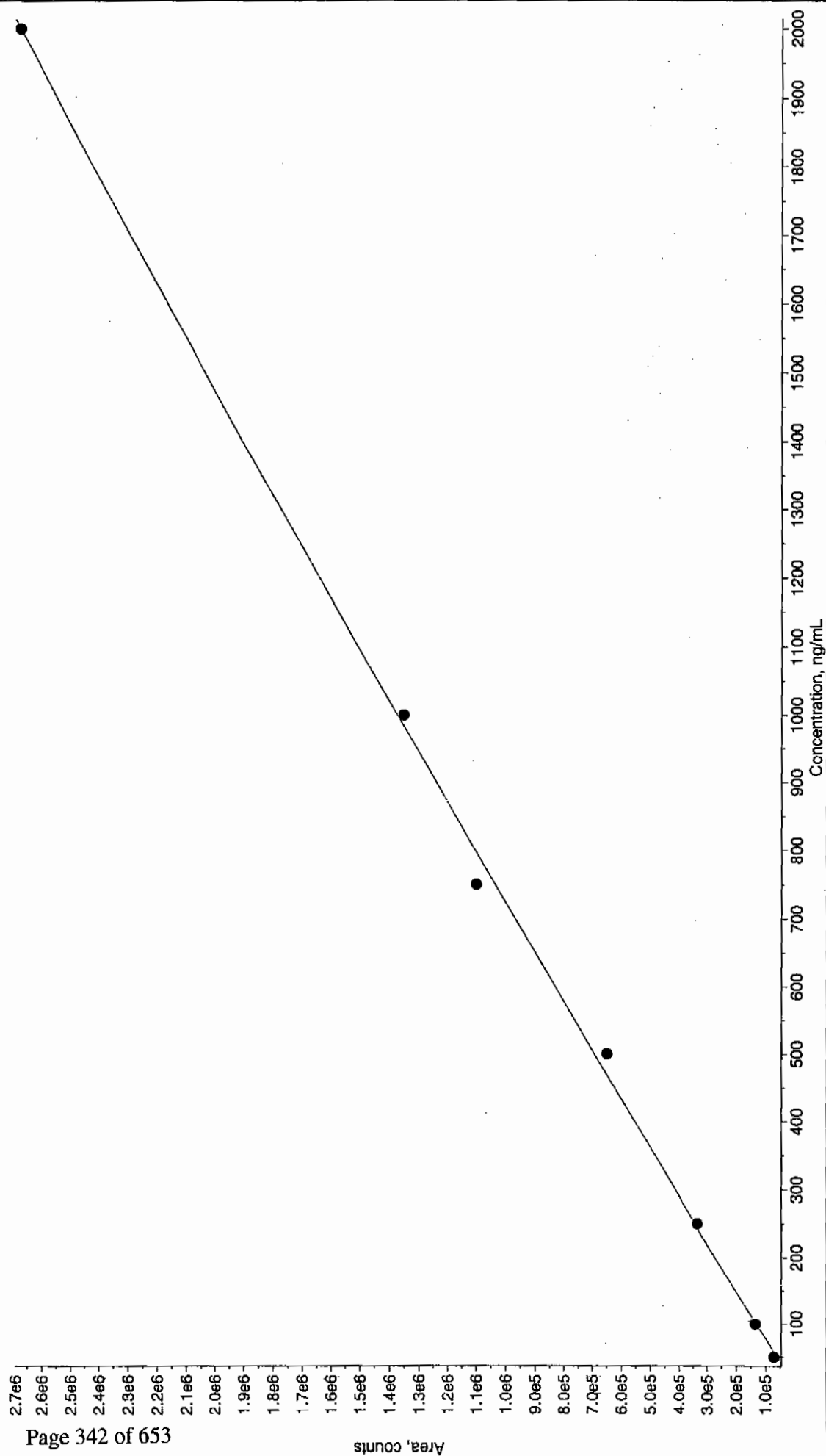
032910.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -1.24 x^2 + 7.28e+003 x + 3.66e+004$ ($r = 0.9969$)



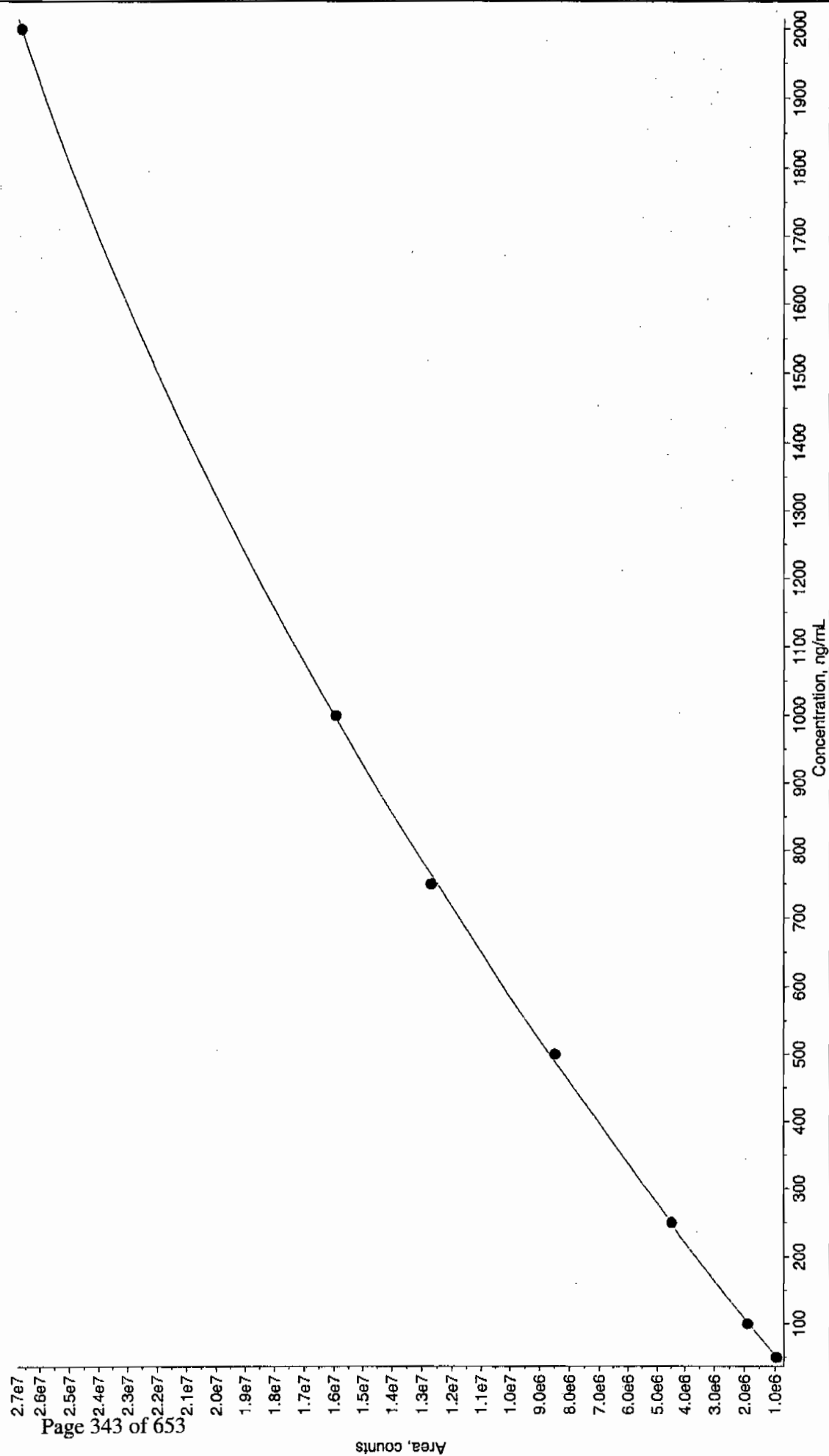
032910.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0755 x^2 + 1.82e+003 x + 4.36e+003$ ($r = 0.9993$)



032910.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0452 x^2 + 1.43e+003 x + -1.11e+004$ ($r = 0.9993$)



032910.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -2.66 x^2 + 1.86e+004 x + 1.83e+004$ ($r = 0.9999$)



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03290011.wiff

Analysis Date: 29-MAR-10 11:36

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	489	98	
2,6-Diamino-4-nitrotoluene	500	470	94	
3,4-Dinitrotoluene	250	239	96	
3,5-Dinitroaniline	500	485	97	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	486	97	

Recovery Limits:

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

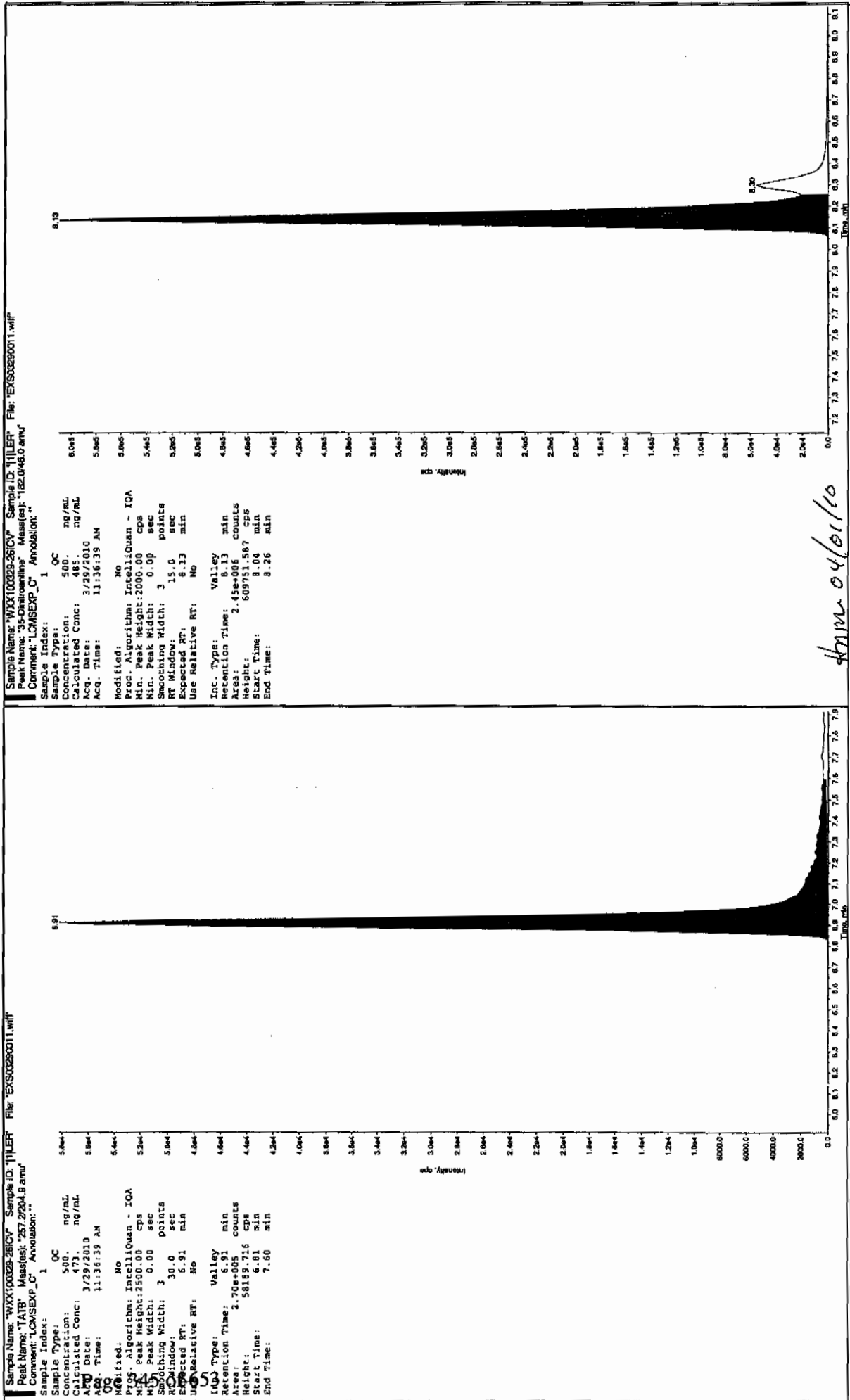
2,4-Diamino-6-nitrotoluene 70-130%

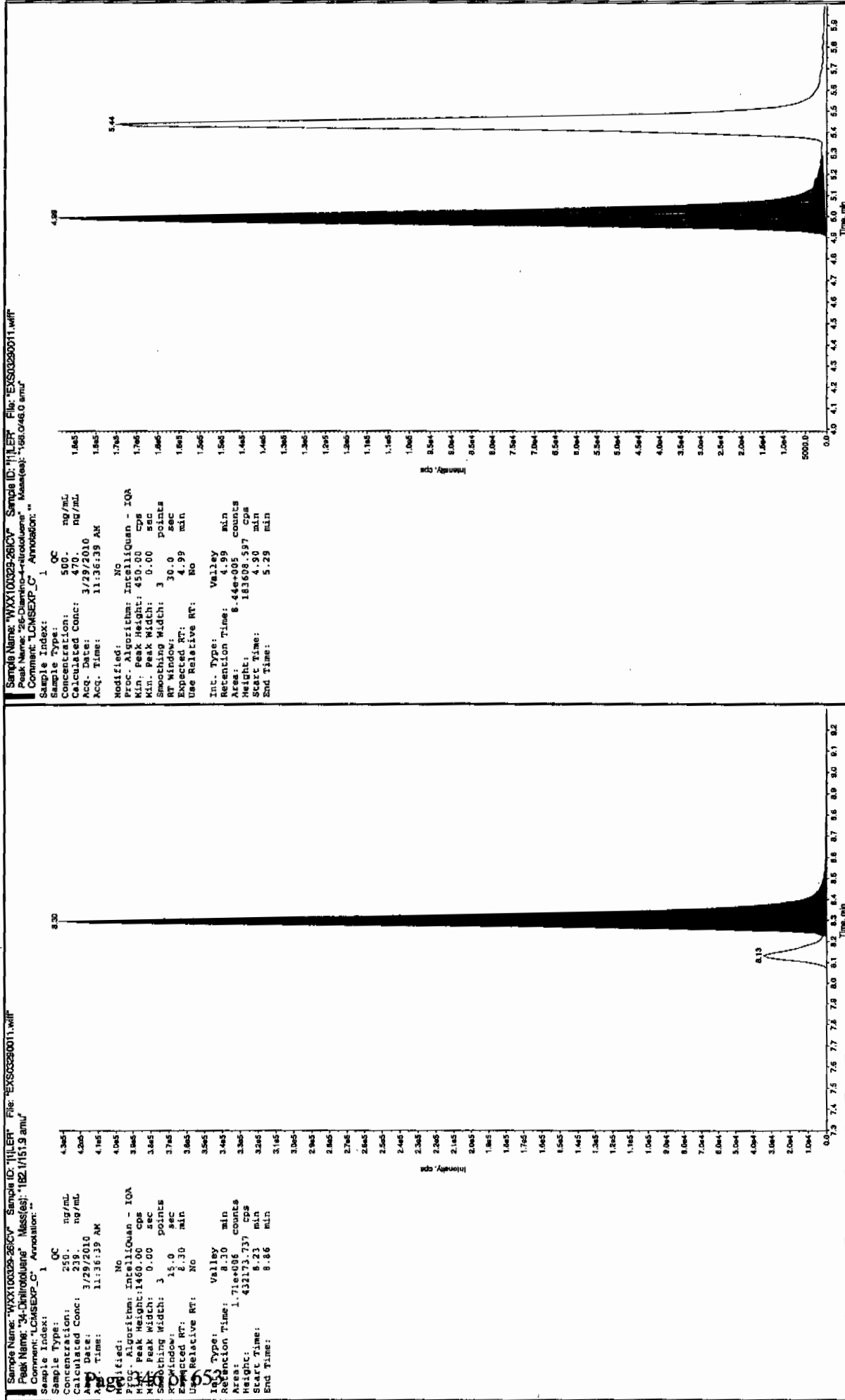
Other Target Analytes 80-120%

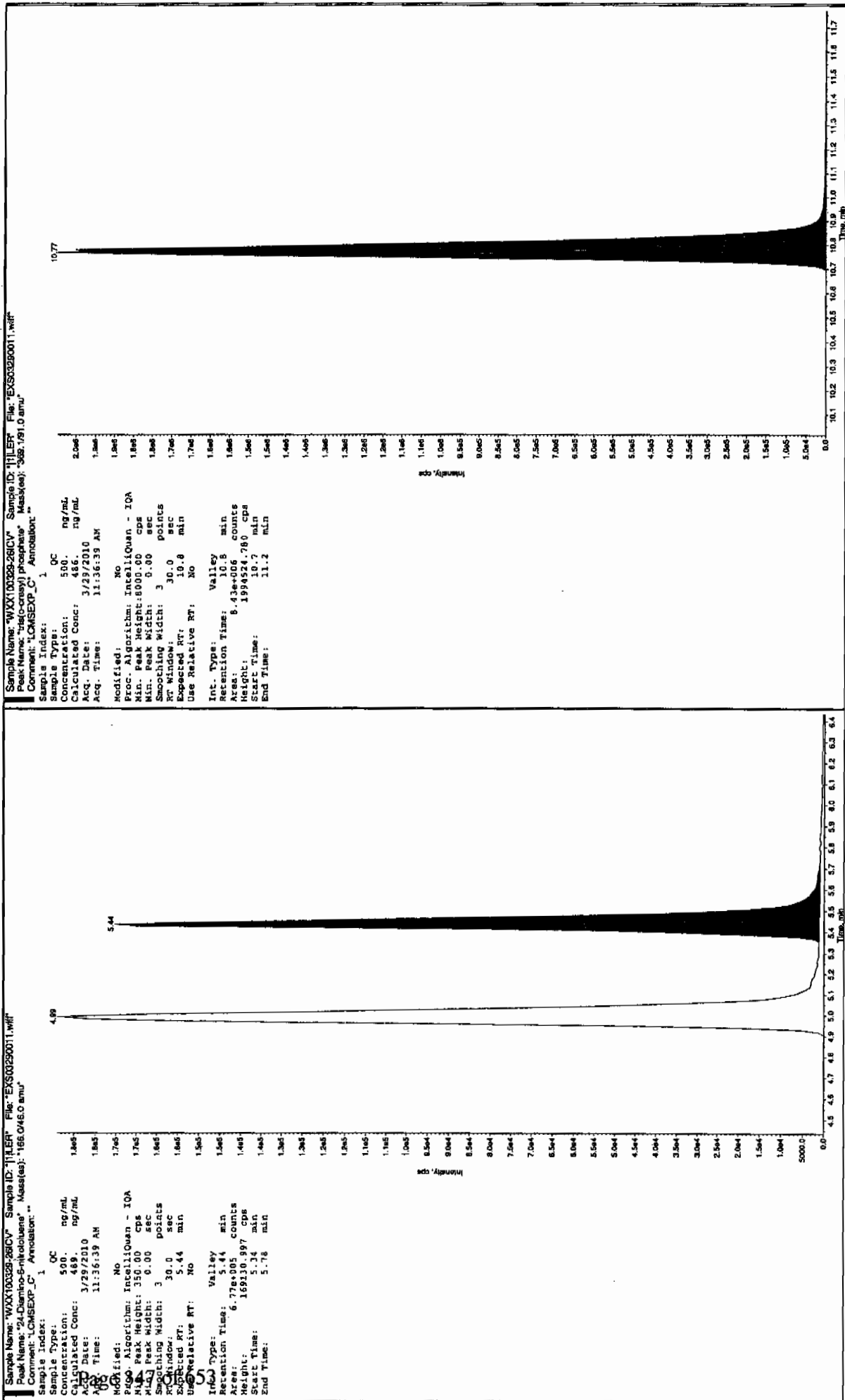
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 4/1/00







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408012a

Analysis Date: 09-APR-10 02:57

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	40	38.638	97	
o-Nitrotoluene	40	40.786	102	
p-Nitrotoluene	40	44.935	112	
1,3,5-Trinitrobenzene	40	40.125	100	
1,3-Dinitrobenzene-d4	500	550.578	110	
2,4,6-Trinitrotoluene	40	38.456	96	
2,4-Dinitrotoluene	40	38.733	97	
2,6-Dinitrotoluene	40	40.684	102	
2,6-Dinitrotoluene-d3	500	538.431	108	
2-Amino-4,6-dinitrotoluene	40	38.144	95	
3,4-Dinitrotoluene	20	21.449	107	
4-Amino-2,6-dinitrotoluene	40	42.093	105	
HMX	40	42.773	107	
Nitrobenzene	40	44.561	111	
PETN	40	43.336	108	
RDX	40	42.104	105	
Tetryl	40	39.686	99	
m-Dinitrobenzene	40	41.454	104	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0408012a

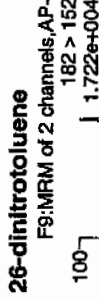
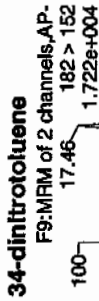
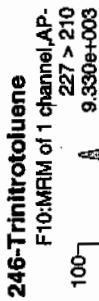
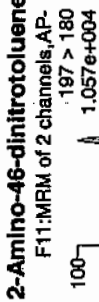
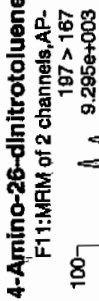
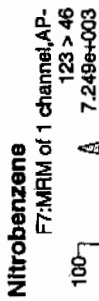
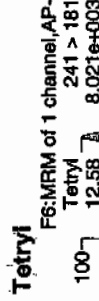
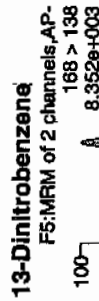
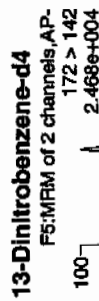
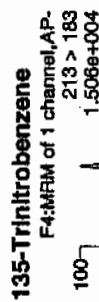
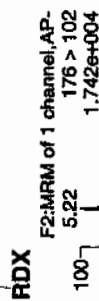
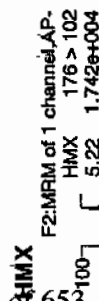
Date: 08-Apr-2010

Time: 02:57:06

ID: WXX100408-08CRI

Vial: 1:1,C

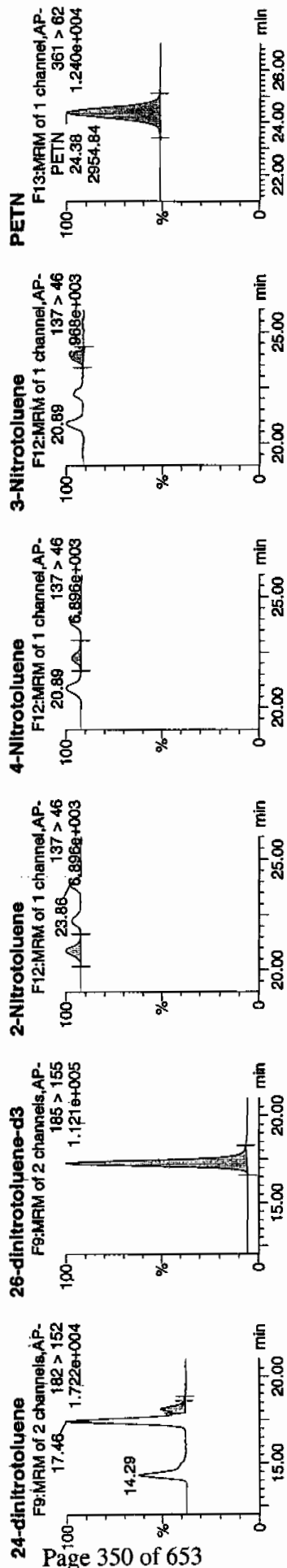
MM
4/10/10



MM
4/11/10

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010



ID	Name	Trace	RT	Area	IS Area	Abundance	Peak	Mod Date	Mod Time	Mod User	Mod Desc	Mod	Mod	
WXX100408-08CRI	HMX	176 > 102	5.22	1955.254	7155.368	1955.254	136.628	bb	42.7734	106.9	6.9	205.0		
WXX100408-08CRI	RDX	176 > 102	7.57	1468.288	7155.368	1468.288	102.600	bb	42.1035	105.3	5.3	134.3		
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.13	2425.125	7155.368	2425.125	169.462	bb	40.1250	100.3	0.3	134.0		
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	11.97	7155.368	7155.368	7155.368	7155.368	bb	550.5781	110.1	10.1	503.1		
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.10	764.006	7155.368	764.006	53.387	bb	41.4536	103.6	3.6	129.7		
WXX100408-08CRI	Tetryl	241 > 181	12.58	584.727	7155.368	584.727	40.859	bb	39.6858	99.2	-0.8	63.7		
WXX100408-08CRI	Nitrobenzene	123 > 46	13.53	383.258	7155.368	383.258	26.781	bb	44.5607	111.4	11.4	21.5		
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.52	1114.118	42512.996	1114.118	13.103	MM	09-Apr-10 10:44:22	42.0931	105.2	5.2	45.7	
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.40	1481.604	42512.996	1481.604	17.425	bb	38.1440	95.4	-4.6	61.2		
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.30	1258.172	42512.996	1258.172	14.797	bb	38.4557	96.1	-3.9	102.4		
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.29	1870.371	42512.996	1870.371	21.998	bb	21.4490	107.2	7.2	70.8		
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.46	3934.310	42512.996	3934.310	46.272	MM	08-Apr-10 10:46:56	40.6842	101.7	1.7	174.3	
WXX100408-08CRI	24-dinitrotoluene	182 > 152	18.12	871.853	42512.996	871.853	10.254	MM	09-Apr-10 10:51:02	38.7330	96.8	-3.2	36.8	
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.29	42512.996	42512.996	42512.996	42512.996	bb	538.4311	107.7	7.7	2811.2		
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.89	266.200	42512.996	266.200	3.131	bb	40.7862	102.0	2.0	57.8		
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.23	148.485	42512.996	148.485	1.746	bb	44.9351	112.3	12.3	33.1		
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.86	179.365	42512.996	179.365	2.110	bb	38.6381	96.6	-3.4	34.4		
WXX100408-08CRI	PETN	361 > 62	24.38	2954.841	42512.996	2954.841	34.752	bb	43.3357	108.3	8.3	1075.4		

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/09/10
 Time of Injection 0257
 Standard Number WXX100408-08CRI
 Data File EXP0408012a

HMX	106.9
RDX	105.3
135-TNB	100.3
13-DNB	103.6
Tetryl	99.2
Nitrobenzene	111.4
4A-26-DNT	105.2
2A-46-DNT	95.4
246-TNT	96.1
34-DNT(surr)	107.2
26-DNT	101.7
24-DNT	96.8
2-NT	102.0
4-NT	112.3
3-NT	96.6
PETN	108.3

*not
4/10/10*

Total 1648.3

Average 103.0

Home - 04/11/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408023a

Analysis Date: 09-APR-10 08:21

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	602.085	100	
1,3-Dinitrobenzene-d4	500	509.39	102	
2,4,6-Trinitrotoluene	600	715.187	119	
2,4-Dinitrotoluene	600	602.1	100	
2,6-Dinitrotoluene	600	602.02	100	
2,6-Dinitrotoluene-d3	500	495.787	99	
2-Amino-4,6-dinitrotoluene	600	644.303	107	
3,4-Dinitrotoluene	300	301.84	101	
4-Amino-2,6-dinitrotoluene	600	630.065	105	
HMX	600	635.768	106	
Nitrobenzene	600	572.021	95	
PETN	600	626.401	104	
RDX	600	690.522	115	
Tetryl	600	685.312	114	
m-Dinitrobenzene	600	617.8	103	
m-Nitrotoluene	600	521.623	87	
o-Nitrotoluene	600	549.165	92	
p-Nitrotoluene	600	580.011	97	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

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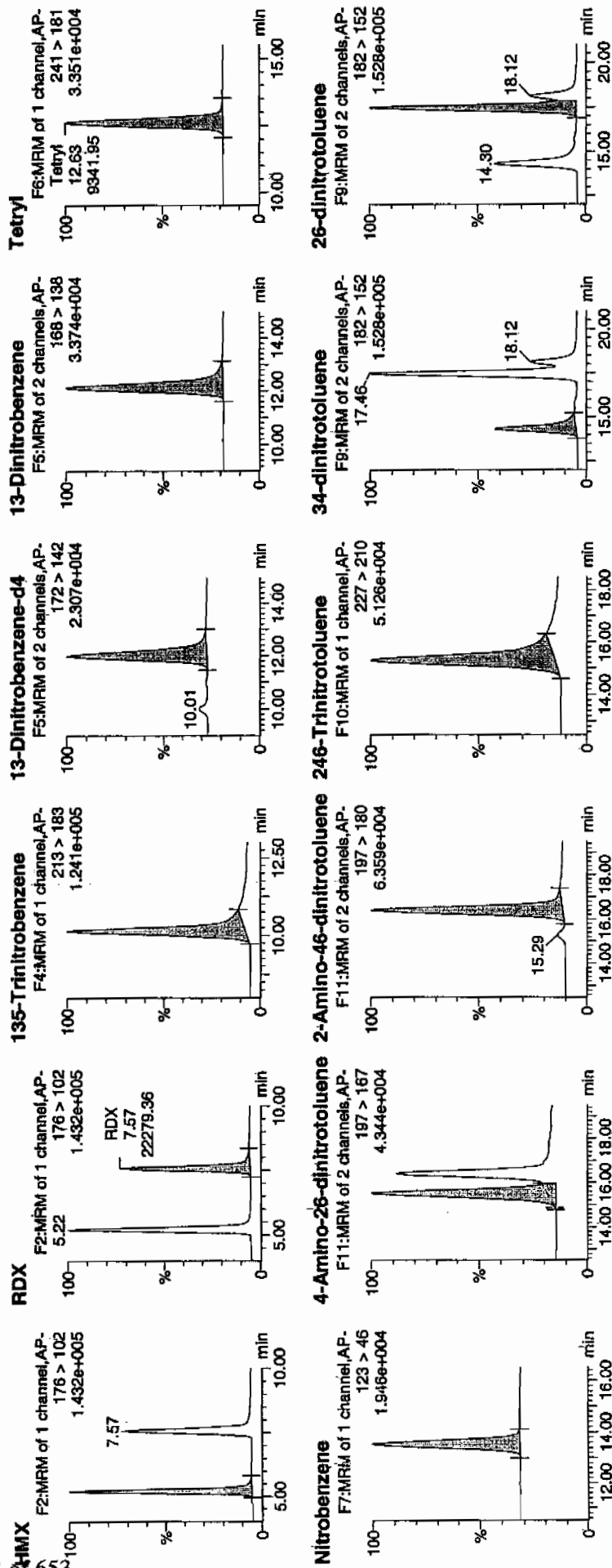
Date: 09-Apr-2010

Time: 08:21:23

ID: WXX100408-07CCV

Vial: 1:1,B

μg
4/10/10

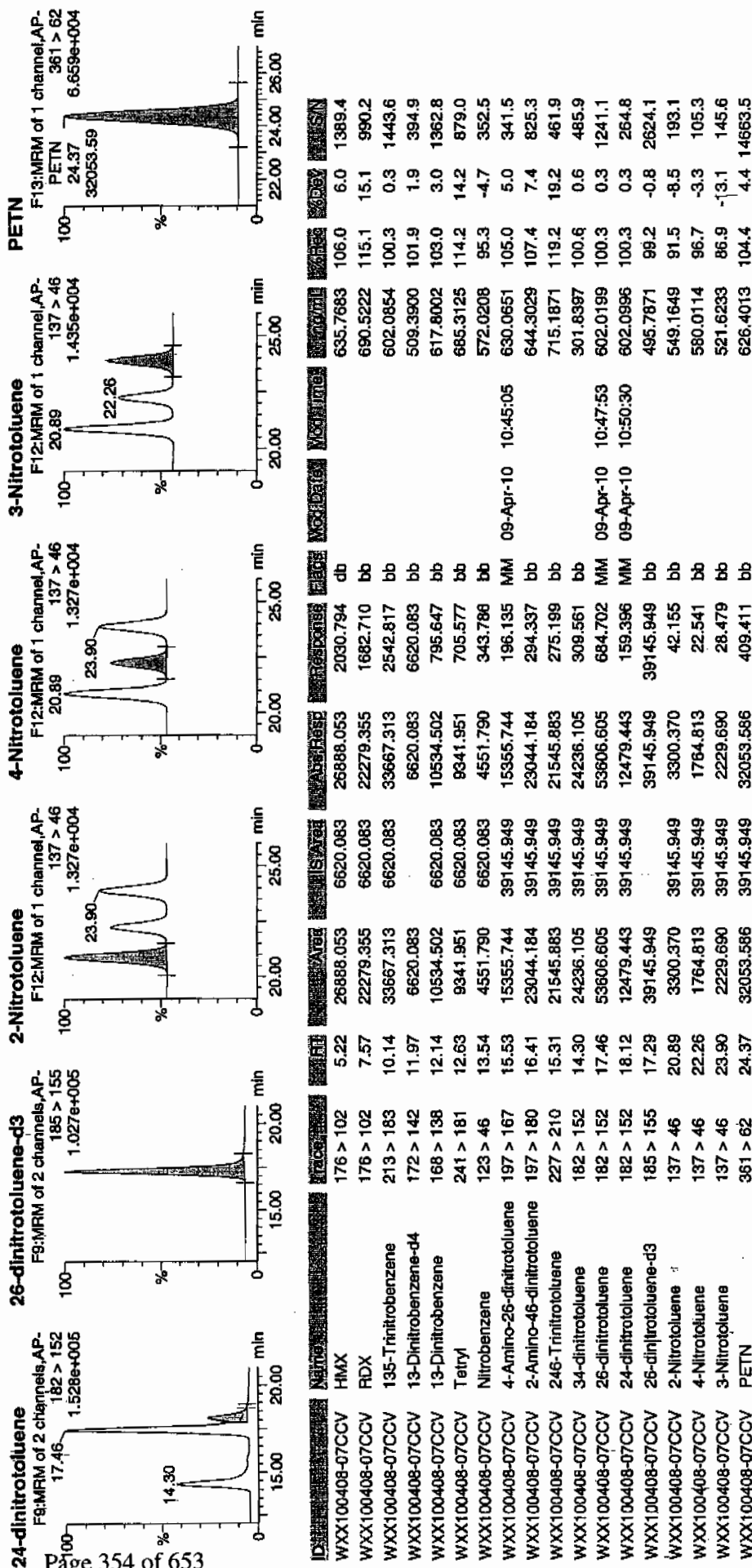


4/10/10

Printed: Fri Apr 09 10:56:07 2010, Page 46 of 51

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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/09/10
 Time of Injection: 0821
 Standard Number: WXX100408-07CCV
 Data File: EXP0408023a

HMX	106.0
RDX	115.1
135-TNB	100.3
13-DNB	103.0
Tetryl	114.2
Nitrobenzene	95.3
4A-26-DNT	105.0
2A-46-DNT	107.4
246-TNT	119.2
34-DNT(surr)	100.6
26-DNT	100.3
24-DNT	100.3
2-NT	91.5
4-NT	96.7
3-NT	86.9
PETN	104.4

*HP
9/10/10*

Total 1646.2

Average 102.9

HP 04/11/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408025a

Analysis Date: 09-APR-10 09:20

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	45.5	114	
1,3-Dinitrobenzene-d4	500	551.868	110	
2,4,6-Trinitrotoluene	40	38.744	97	
2,4-Dinitrotoluene	40	39.839	100	
2,6-Dinitrotoluene	40	40.632	102	
2,6-Dinitrotoluene-d3	500	534.081	107	
2-Amino-4,6-dinitrotoluene	40	41.315	103	
3,4-Dinitrotoluene	20	19.176	96	
4-Amino-2,6-dinitrotoluene	40	39.827	100	
HMX	40	38.969	97	
Nitrobenzene	40	33.805	85	
PETN	40	41.785	104	
RDX	40	36.3	91	
Tetryl	40	44.096	110	
m-Dinitrobenzene	40	39.708	99	
m-Nitrotoluene	40	39.704	99	
o-Nitrotoluene	40	43.509	109	
p-Nitrotoluene	40	44.305	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%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

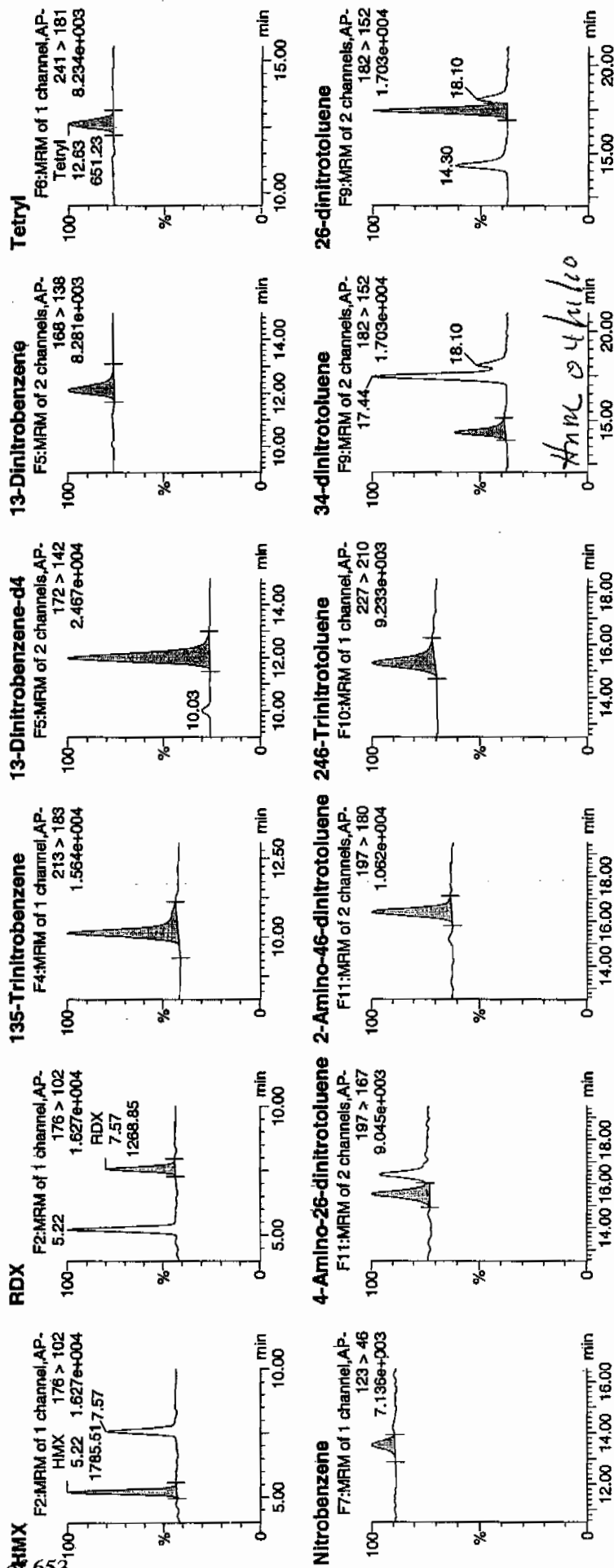
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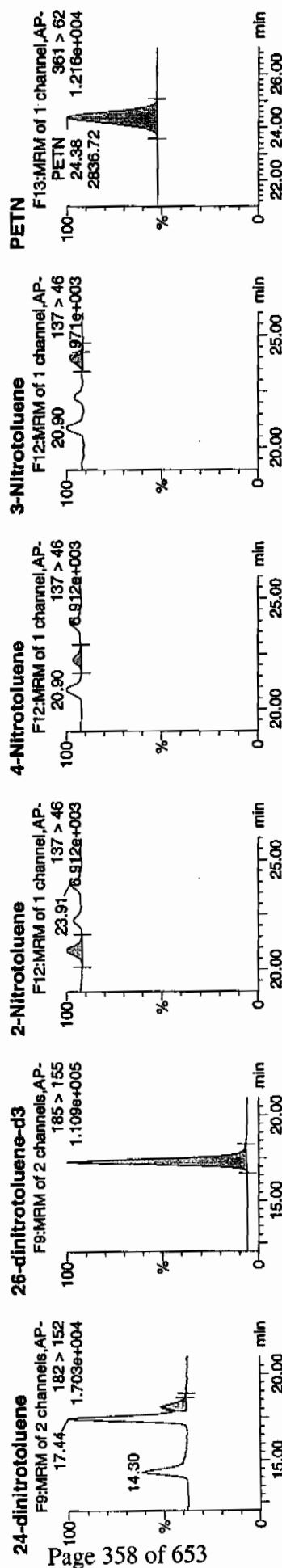
Date: 09-Apr-2010

Time: 09:20:28

ID: WXX100408-08CRI

Vial: 1:1,C





ID	Name	Zone	Unit	Area	IS Area	AS Area	Response	Flags	Mod Date	Mod Time	TCM	WFC	QD	SN
WXX100408-08CRI	HMX	176 > 102	5.22	1785.509	7172.133	1785.509	124.475	bb			38.9888	97.4	-2.6	182.8
WXX100408-08CRI	RDX	176 > 102	7.57	1288.851	7172.133	1288.851	88.457	bb			36.2995	90.7	-9.3	116.8
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2756.432	7172.133	2756.432	192.163	bb			45.5001	113.8	13.8	137.2
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	7172.133		7172.133	7172.133	bb			551.8681	110.4	10.4	1479.4
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.14	733.552	7172.133	733.552	51.139	bb			39.7082	99.3	-0.7	102.6
WXX100408-08CRI	Tetryl	241 > 181	12.63	651.230	7172.133	651.230	45.400	bb			44.0961	110.2	10.2	75.9
WXX100408-08CRI	Nitrobenzene	123 > 46	13.54	291.435	7172.133	291.435	20.317	bb			33.8054	84.5	-15.5	26.1
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.53	1045.621	42169.504	1045.621	12.398	MM	09-Apr-10	10:45:13	39.8270	99.6	-0.4	31.0
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.41	1591.803	42169.504	1591.803	18.874	bb			41.3149	103.3	3.3	93.8
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.31	1257.368	42169.504	1257.368	14.908	bb			38.7441	96.9	-3.1	158.0
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.30	1658.674	42169.504	1658.674	19.667	bb			19.1762	95.9	-4.1	79.4
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.44	3897.471	42169.504	3897.471	46.212	MM	09-Apr-10	10:48:07	40.6316	101.6	1.6	214.1
WXX100408-08CRI	24-dinitrotoluene	182 > 152	18.10	889.509	42169.504	889.509	10.547	MM	09-Apr-10	10:50:47	39.8393	99.6	-0.4	46.6
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.29	42169.504		42169.504	42169.504	bb			534.0807	106.8	6.8	2957.1
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.90	281.676	42169.504	281.676	3.340	bb			43.5089	108.8	8.6	67.2
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.24	145.220	42169.504	145.220	1.722	bb			44.3050	110.8	10.8	36.0
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.90	182.823	42169.504	182.823	2.168	MM	09-Apr-10	10:52:03	39.7038	99.3	-0.7	41.3
WXX100408-08CRI	PETN	361 > 62	24.38	2836.721	42169.504	2836.721	33.635	bb			41.7853	104.5	4.5	1189.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/09/10
 Time of Injection 0920
 Standard Number WXX100408-08CRI
 Data File EXP0408025a

HMX	97.4
RDX	90.7
135-TNB	113.8
13-DNB	99.3
Tetryl	110.2
Nitrobenzene	84.5
4A-26-DNT	99.6
2A-46-DNT	103.3
246-TNT	96.9
34-DNT(surr)	95.9
26-DNT	101.6
24-DNT	99.6
2-NT	108.8
4-NT	110.8
3-NT	99.3
PETN	104.5

Handwritten: 4/10/10

Total 1616.2

Average 101.0

Handwritten: 4/10/10

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

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408036a

Analysis Date: 09-APR-10 14:44

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	615.039	103	
1,3-Dinitrobenzene-d4	500	422.177	84	
2,4,6-Trinitrotoluene	600	700.231	117	
2,4-Dinitrotoluene	600	598.551	100	
2,6-Dinitrotoluene	600	601.126	100	
2,6-Dinitrotoluene-d3	500	415.826	83	
2-Amino-4,6-dinitrotoluene	600	671.115	112	
3,4-Dinitrotoluene	300	297.202	99	
4-Amino-2,6-dinitrotoluene	600	629.291	105	
HMX	600	668.293	111	
Nitrobenzene	600	565.065	94	
PETN	600	633.087	106	
RDX	600	715.89	119	
Tetryl	600	687.697	115	
m-Dinitrobenzene	600	604.247	101	
m-Nitrotoluene	600	522.415	87	
o-Nitrotoluene	600	540.297	90	
p-Nitrotoluene	600	575.108	96	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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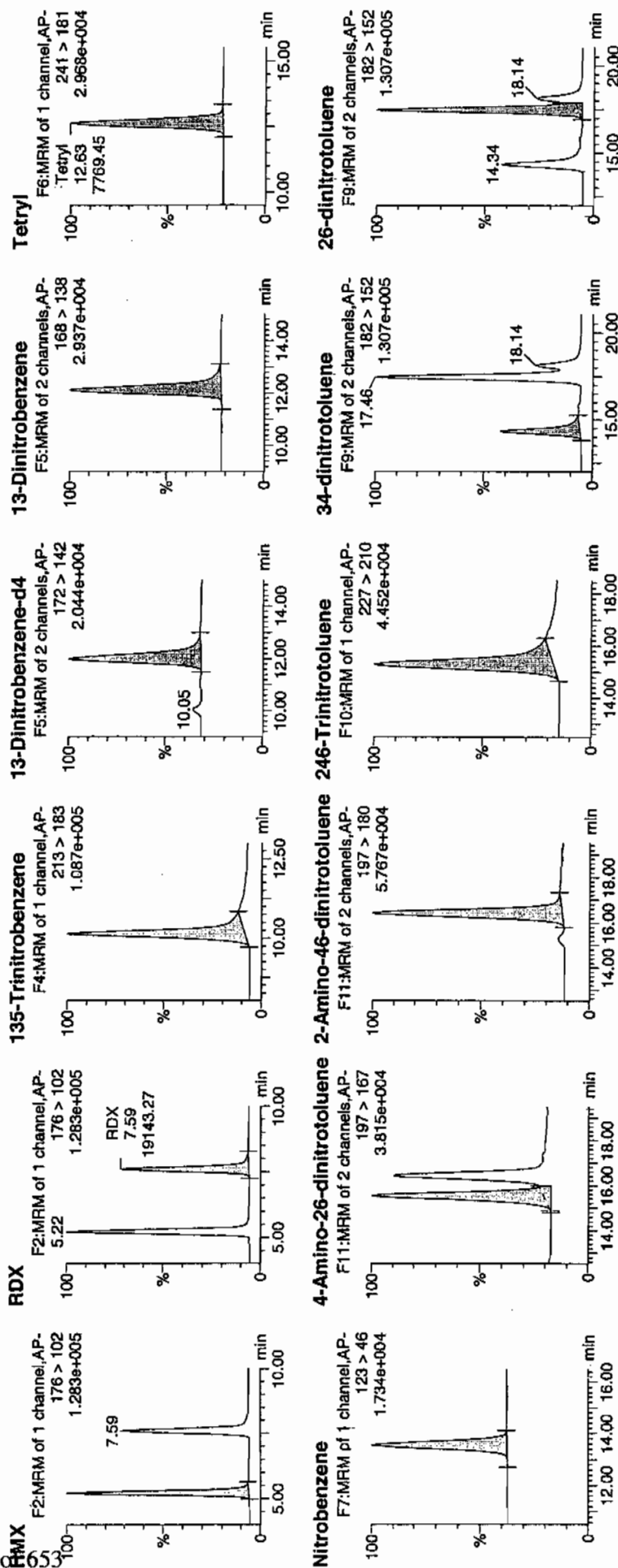
Date: 09-Apr-2010

Time: 14:44:48

ID: WXX100408-07CCV

Stat: 1:1,B

4/10/10



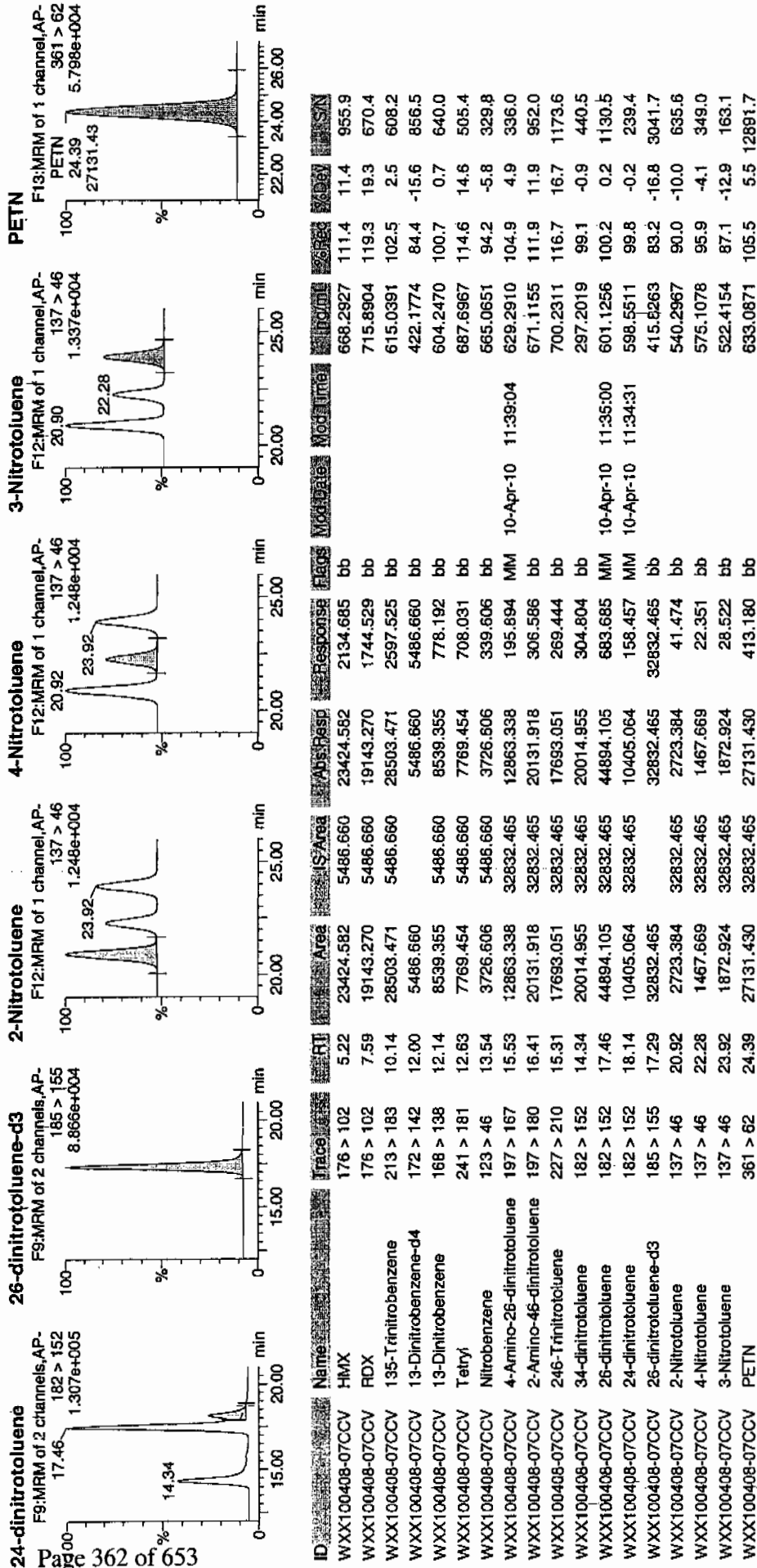
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 22 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/09/10
 Time of Injection: 1444
 Standard Number: WXX100408-07CCV
 Data File: EXP0408036a

HMX	111.4
RDX	119.3
135-TNB	102.5
13-DNB	100.7
Tetryl	114.6
Nitrobenzene	94.2
4A-26-DNT	104.9
2A-46-DNT	111.9
246-TNT	116.7
34-DNT(surr)	99.1
26-DNT	100.2
24-DNT	99.8
2-NT	90.0
4-NT	95.9
3-NT	87.1
PETN	105.5

*not
4/9/10*

Total 1653.8

Average 103.4

Handwritten: 04/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408038a

Analysis Date: 09-APR-10 15:43

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	20	20.469	102	
4-Amino-2,6-dinitrotoluene	40	40.006	100	
HMX	40	42.186	105	
Nitrobenzene	40	41.813	105	
PETN	40	40.909	102	
RDX	40	39.856	100	
Tetryl	40	45.95	115	
m-Dinitrobenzene	40	39.657	99	
m-Nitrotoluene	40	41.758	104	
o-Nitrotoluene	40	40.293	101	
p-Nitrotoluene	40	48.523	121	
1,3,5-Trinitrobenzene	40	42.597	106	
1,3-Dinitrobenzene-d4	500	488.04	98	
2,4,6-Trinitrotoluene	40	44.653	112	
2,4-Dinitrotoluene	40	41.901	105	
2,6-Dinitrotoluene	40	40.578	101	
2,6-Dinitrotoluene-d3	500	467.068	93	
2-Amino-4,6-dinitrotoluene	40	43.801	110	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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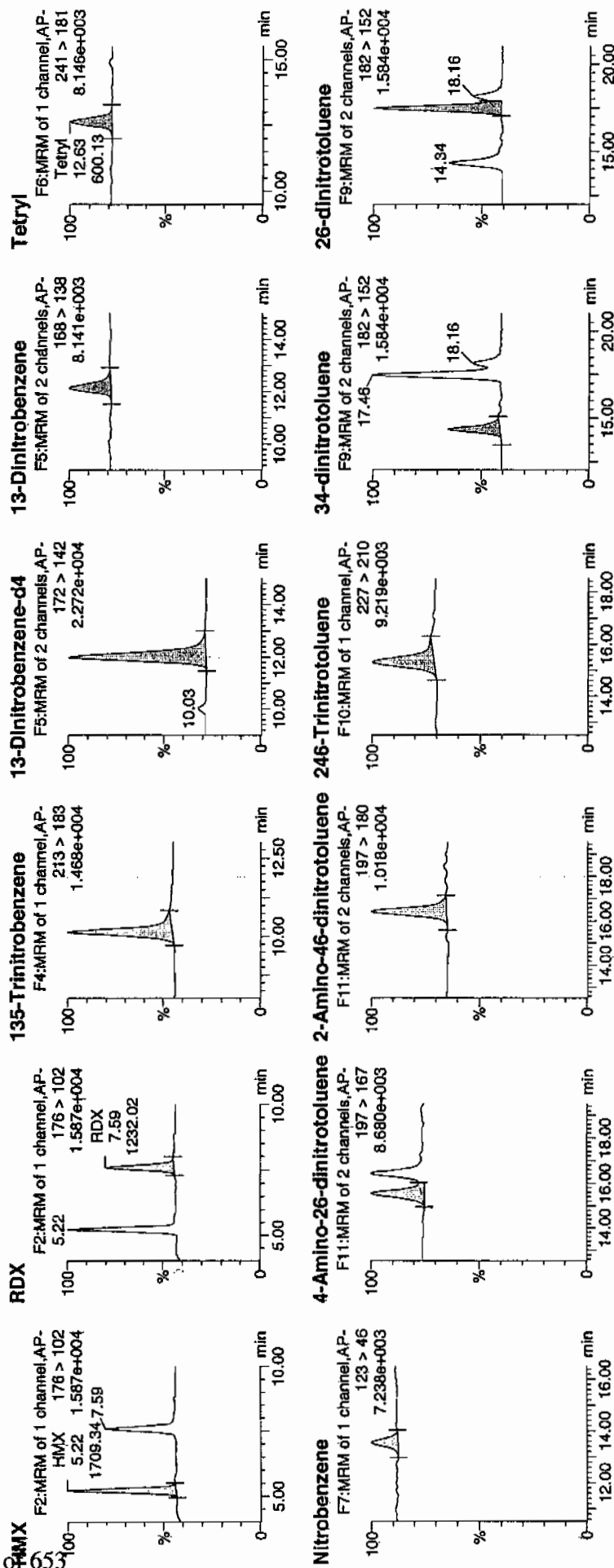
Date: 09-Apr-2010

Time: 15:43:52

ID: WXX100408-08CRI

Val: 1:1,C

4/10/10



4/10/10

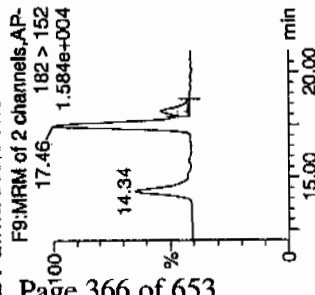
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

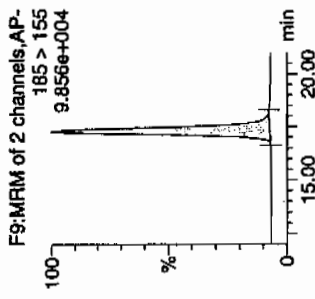
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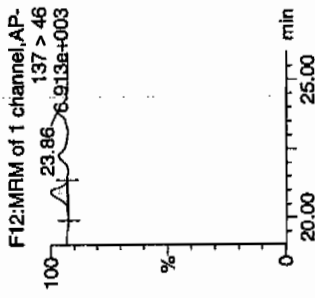
24-dinitrotoluene



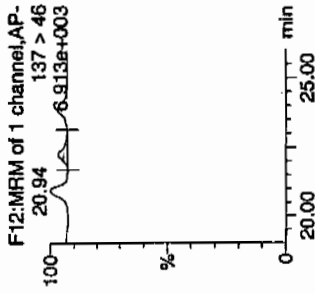
26-dinitrotoluene-d3



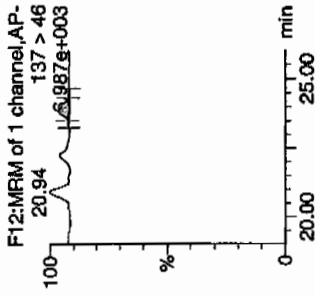
2-Nitrotoluene



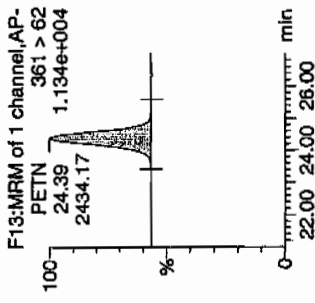
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	Rec	Day	Time
WXX100408-08CRI	HMX	176 > 102	5.22	1709.343	6342.622	1709.343	134.751	bb			42.1855	105.5	5.5	183.0
WXX100408-08CRI	RDX	176 > 102	7.59	1232.022	6342.622	1232.022	97.122	bb			39.8555	99.6	-0.4	116.2
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2282.100	6342.622	2282.100	179.902	bb			42.5970	106.5	6.5	213.1
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	6342.622	6342.622	6342.622	6342.622	bb			488.0404	97.5	-2.4	545.0
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.14	647.869	6342.622	647.869	51.073	bb			39.6566	99.1	-0.9	29.3
WXX100408-08CRI	Tetryl	241 > 181	12.63	600.128	6342.622	600.128	47.309	bb			45.9504	114.9	14.9	52.9
WXX100408-08CRI	Nitrobenzene	123 > 46	13.54	318.776	6342.622	318.776	25.130	bb			41.8129	104.5	4.5	50.7
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.53	918.544	36878.363	918.544	12.454	MM	10-Apr-10	11:38:52	40.0064	100.0	0.0	30.3
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.44	1475.851	36878.363	1475.851	20.010	bb			43.8012	109.5	9.5	52.7
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.31	1267.309	36878.363	1267.309	17.182	bb			44.6532	111.6	11.6	129.8
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.34	1548.369	36878.363	1548.369	20.983	bb			20.4693	102.3	2.3	59.4
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.46	3403.954	36878.363	3403.954	46.151	MM	10-Apr-10	11:35:07	40.5781	101.4	1.4	148.1
WXX100408-08CRI	24-dinitrotoluene	182 > 152	18.16	818.160	36878.363	818.160	11.093	MM	10-Apr-10	11:34:24	41.9012	104.8	4.8	31.0
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.29	36878.363	36878.363	36878.363	36878.363	bb			467.0679	93.4	-6.6	2402.7
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.94	228.128	36878.363	228.128	3.093	bb			40.2934	100.7	0.7	71.1
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.27	139.089	36878.363	139.089	1.886	bb			48.5228	121.3	21.3	40.0
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.83	168.156	36878.363	168.156	2.280	MM	10-Apr-10	11:30:16	41.7580	104.4	4.4	14.1
WXX100408-08CRI	PETN	361 > 62	24.39	2434.169	36878.363	2434.169	33.003	bb			40.9088	102.3	2.3	1075.7

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/09/10
 Time of Injection 1543
 Standard Number WXX100408-08CRI
 Data File EXP0408038a

HMX	105.5
RDX	99.6
135-TNB	106.5
13-DNB	99.1
Tetryl	114.9
Nitrobenzene	104.5
4A-26-DNT	100.0
2A-46-DNT	109.5
246-TNT	111.6
34-DNT(surr)	102.3
26-DNT	101.4
24-DNT	104.8
2-NT	100.7
4-NT	121.3
3-NT	104.4
PETN	102.3

not
4/10/10

Total 1688.4

Average 105.5

Handwritten: 04/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408046a

Analysis Date: 09-APR-10 19:43

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	600	573.858	96	
PETN	600	681.011	114	
RDX	600	745.866	124	*
Tetryl	600	716.114	119	
m-Dinitrobenzene	600	600.408	100	
m-Nitrotoluene	600	529.621	88	
o-Nitrotoluene	600	550.66	92	
p-Nitrotoluene	600	590.579	98	
1,3,5-Trinitrobenzene	600	626.151	104	
1,3-Dinitrobenzene-d4	500	411.022	82	
2,4,6-Trinitrotoluene	600	720.578	120	*
2,4-Dinitrotoluene	600	610.114	102	
2,6-Dinitrotoluene	600	610.942	102	
2,6-Dinitrotoluene-d3	500	390.069	78	*
2-Amino-4,6-dinitrotoluene	600	714.631	119	
3,4-Dinitrotoluene	300	314.02	105	
4-Amino-2,6-dinitrotoluene	600	619.274	103	
HMX	600	698.805	116	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 41 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408046a

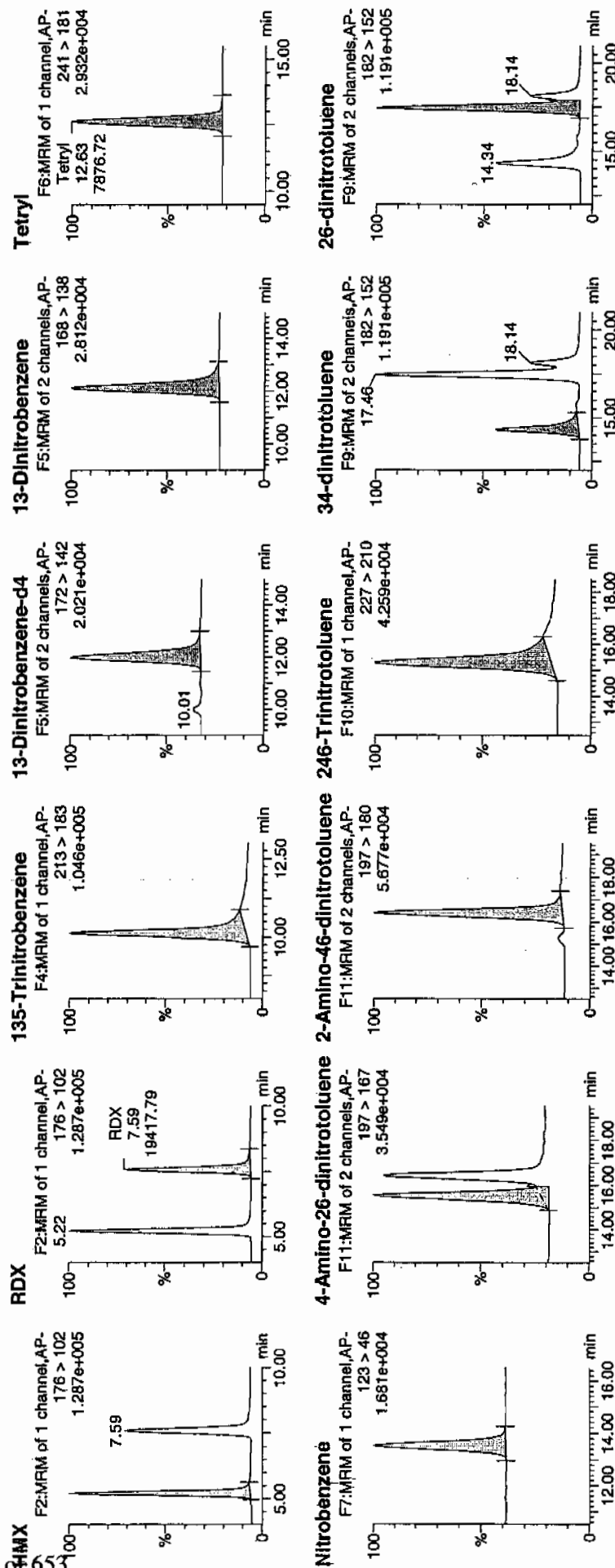
Date: 09-Apr-2010

Time: 19:43:09

ID: WXX100408-07CCV

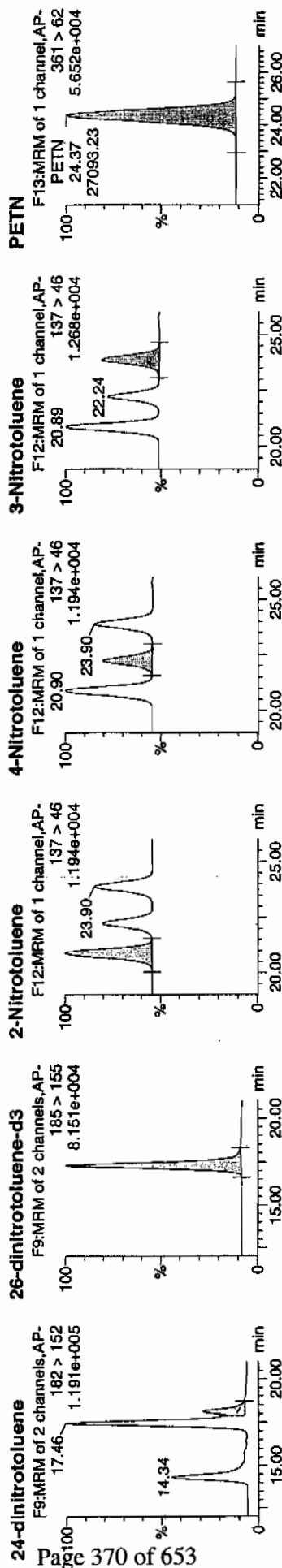
Vial: 1:1,B

WXX
4/10/10



sum 04/10/10

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	Area	Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	IN	SN
WXX100408-07CCV	HMX	176 > 102	5.22	23846.848	5341.678	23846.848	2232.150	bb	698.8053	116.5	16.5	2793.1	
WXX100408-07CCV	RDX	176 > 102	7.59	19417.789	5341.678	19417.789	1817.574	bb	745.8655	124.3	24.3	1942.5	
WXX100408-07CCV	135-Trinitrobenzene	213 > 183	10.14	28251.629	5341.678	28251.629	2644.453	bb	626.1507	104.4	4.4	3005.7	
WXX100408-07CCV	13-Dinitrobenzene-d4	172 > 142	11.97	5341.678	5341.678	5341.678	5341.678	bb	411.0216	82.2	-17.8	549.3	
WXX100408-07CCV	13-Dinitrobenzene	168 > 138	12.14	8260.887	5341.678	8260.887	773.248	bb	600.4080	100.1	0.1	773.1	
WXX100408-07CCV	Tetryl	241 > 181	12.63	7876.723	5341.678	7876.723	737.289	bb	716.1143	119.4	19.4	646.1	
WXX100408-07CCV	Nitrobenzene	123 > 46	13.54	3684.591	5341.678	3684.591	344.891	bb	573.8582	95.6	-4.4	346.3	
WXX100408-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.53	11874.462	30798.709	11874.462	192.775	MM	619.2739	103.2	3.2	457.1	
WXX100408-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.41	20109.385	30798.709	20109.385	326.465	bb	714.6310	119.1	19.1	591.6	
WXX100408-07CCV	246-Trinitrotoluene	227 > 210	15.31	17079.340	30798.709	17079.340	277.274	bb	720.5776	120.1	20.1	938.9	
WXX100408-07CCV	34-dinitrotoluene	182 > 152	14.34	19837.617	30798.709	19837.617	322.053	bb	314.0201	104.7	4.7	600.8	
WXX100408-07CCV	26-dinitrotoluene	182 > 152	17.46	42800.914	30798.709	42800.914	694.849	MM	610.9419	101.8	1.8	1478.7	
WXX100408-07CCV	24-dinitrotoluene	182 > 152	18.14	9949.095	30798.709	9949.095	161.518	MM	610.1140	101.7	1.7	944.3	
WXX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.29	30798.709	30798.709	30798.709	30798.709	bb	390.0686	78.0	-22.0	1409.6	
WXX100408-07CCV	2-Nitrotoluene	137 > 46	20.90	2603.687	30798.709	2603.687	42.269	bb	550.6596	91.8	-8.2	150.7	
WXX100408-07CCV	4-Nitrotoluene	137 > 46	22.25	1413.793	30798.709	1413.793	22.952	bb	590.5789	98.4	-1.6	85.8	
WXX100408-07CCV	3-Nitrotoluene	137 > 46	23.88	1781.142	30798.709	1781.142	28.916	bb	529.6212	88.3	-11.7	81.1	
WXX100408-07CCV	PETN	361 > 62	24.37	27093.227	30798.709	27093.227	439.844	bb	681.0113	113.5	13.5	552.1	

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/09/10
 Time of Injection: 1943
 Standard Number: WXX100408-07CCV
 Data File: EXP0408046a

HMX	116.5
RDX	124.3
135-TNB	104.4
13-DNB	100.1
Tetryl	119.4
Nitrobenzene	95.6
4A-26-DNT	103.2
2A-46-DNT	119.1
246-TNT	120.1
34-DNT(surr)	104.7
26-DNT	101.8
24-DNT	101.7
2-NT	91.8
4-NT	98.4
3-NT	88.3
PETN	113.5

*MTT
9/10/10*

Total 1702.9

Average 106.4

Done 04/10/10

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

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408048a

Analysis Date: 09-APR-10 20:42

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	46.817	117	
1,3-Dinitrobenzene-d4	500	425.431	85	
2,4,6-Trinitrotoluene	40	45.785	114	
2,4-Dinitrotoluene	40	39.222	98	
2,6-Dinitrotoluene	40	40.808	102	
2,6-Dinitrotoluene-d3	500	413.788	83	
2-Amino-4,6-dinitrotoluene	40	41.709	104	
3,4-Dinitrotoluene	20	19.877	99	
4-Amino-2,6-dinitrotoluene	40	40.41	101	
HMX	40	49.707	124	
Nitrobenzene	40	37.314	93	
PETN	40	45.798	114	
RDX	40	48.995	122	
Tetryl	40	47.57	119	
m-Dinitrobenzene	40	38.146	95	
m-Nitrotoluene	40	37.735	94	
o-Nitrotoluene	40	38.37	96	
p-Nitrotoluene	40	36.579	91	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

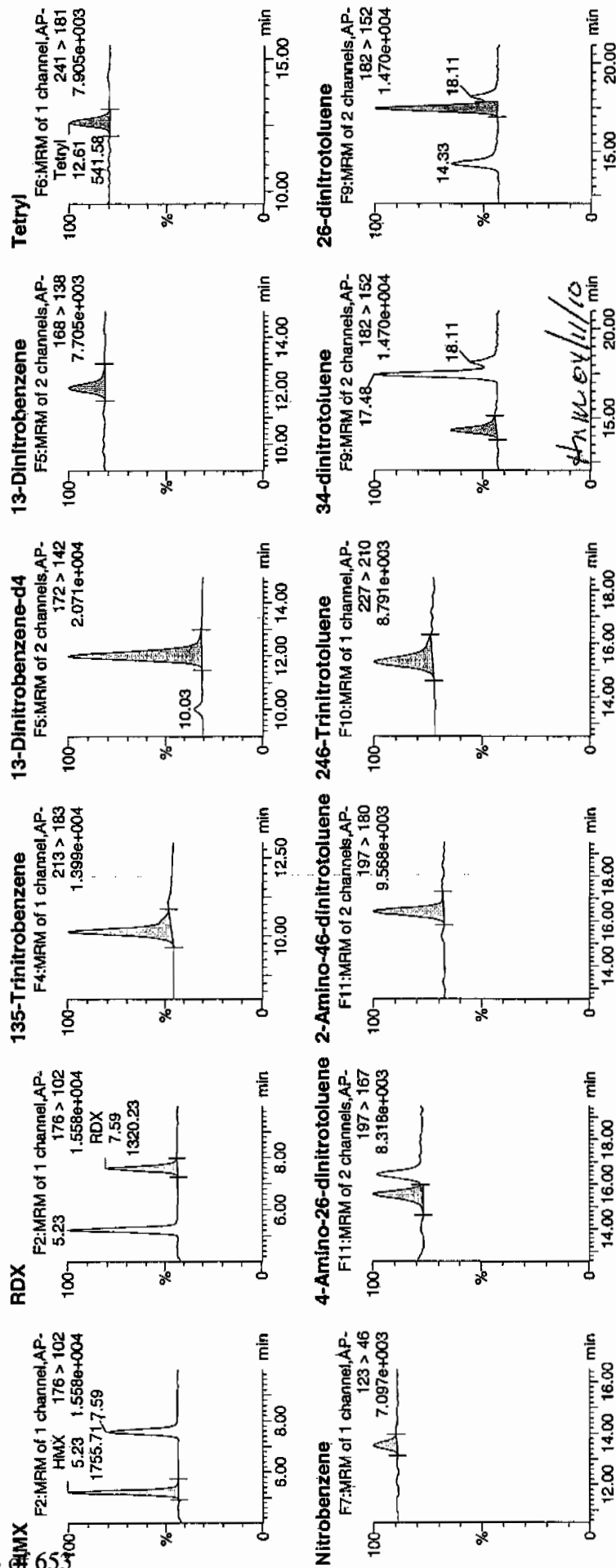
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Date: 09-Apr-2010

Time: 20:42:06

ID: WXX100408-08CRI

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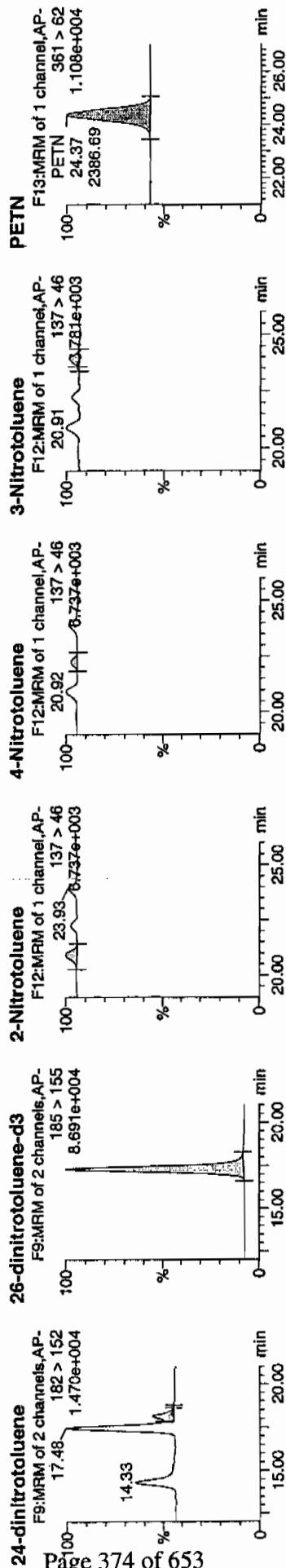


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 46 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	RT	Area	IS Area	Abt Resp	Response	Flags	Mod Date	Mod Time	SN
WXX100408-08CRI	HMX	176 > 102	5.23	1755.715	5528.944	1755.715	158.775	bb	49.7067	124.3	253.8
WXX100408-08CRI	RDX	176 > 102	7.59	1320.235	5528.944	1320.235	119.393	bb	48.9945	122.5	167.2
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2186.401	5528.944	2186.401	197.723	bb	46.8167	117.0	134.1
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	5528.944		5528.944		bb	425.4310	85.1	244.1
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.13	543.243	5528.944	543.243	49.127	bb	38.1460	95.4	40.7
WXX100408-08CRI	Tetryl	241 > 181	12.61	541.575	5528.944	541.575	48.976	bb	47.5698	118.9	43.5
WXX100408-08CRI	Nitrobenzene	123 > 46	13.53	247.982	5528.944	247.982	22.426	bb	37.3139	93.3	-6.7
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.54	821.968	32671.566	821.968	12.579	MM	40.4098	101.0	26.3
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.42	1245.053	32671.566	1245.053	19.054	bb	41.7084	104.3	4.3
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.30	1151.209	32671.566	1151.209	17.618	bb	45.7853	114.5	14.5
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.33	1332.043	32671.566	1332.043	20.385	bb	19.8769	99.4	-0.6
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.48	3032.749	32671.566	3032.749	46.413	MM	40.8081	102.0	2.0
WXX100408-08CRI	24-dinitrotoluene	182 > 152	18.11	678.479	32671.566	678.479	10.383	MM	39.2217	98.1	-1.9
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.30	32671.566		32671.566		bb	413.7885	82.8	-17.2
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.92	192.459	32671.566	192.459	2.945	bb	38.3703	95.9	-4.1
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.24	92.891	32671.566	92.891	1.422	bb	36.5787	91.4	-8.6
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.95	134.623	32671.566	134.623	2.060	MM	37.7954	94.3	-5.7
WXX100408-08CRI	PETN	361 > 62	24.37	2386.693	32671.566	2386.693	36.526	bb	45.7979	114.5	14.5

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/09/10
 Time of Injection 2042
 Standard Number WXX100408-08CRI
 Data File EXP0408048a

HMX	124.3
RDX	122.5
135-TNB	117.0
13-DNB	95.4
Tetryl	118.9
Nitrobenzene	93.3
4A-26-DNT	101.0
2A-46-DNT	104.3
246-TNT	114.5
34-DNT(surr)	99.4
26-DNT	102.0
24-DNT	98.1
2-NT	95.9
4-NT	91.4
3-NT	94.3
PETN	114.5

Handwritten: 114.5

Total 1686.8

Average 105.4

Handwritten: 105.4

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408059a

Analysis Date: 10-APR-10 02:06

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	637.472	106	
1,3-Dinitrobenzene-d4	500	406.896	81	
2,4,6-Trinitrotoluene	600	750.861	125	*
2,4-Dinitrotoluene	600	611.885	102	
2,6-Dinitrotoluene	600	605.131	101	
2,6-Dinitrotoluene-d3	500	399.227	80	*
2-Amino-4,6-dinitrotoluene	600	658.874	110	
3,4-Dinitrotoluene	300	306.732	102	
4-Amino-2,6-dinitrotoluene	600	652.267	109	
HMX	600	711.322	119	
Nitrobenzene	600	579.312	97	
PETN	600	690.737	115	
RDX	600	755.934	126	*
Tetryl	600	720.544	120	*
m-Dinitrobenzene	600	636.143	106	
m-Nitrotoluene	600	533.946	89	
o-Nitrotoluene	600	552.318	92	
p-Nitrotoluene	600	573.913	96	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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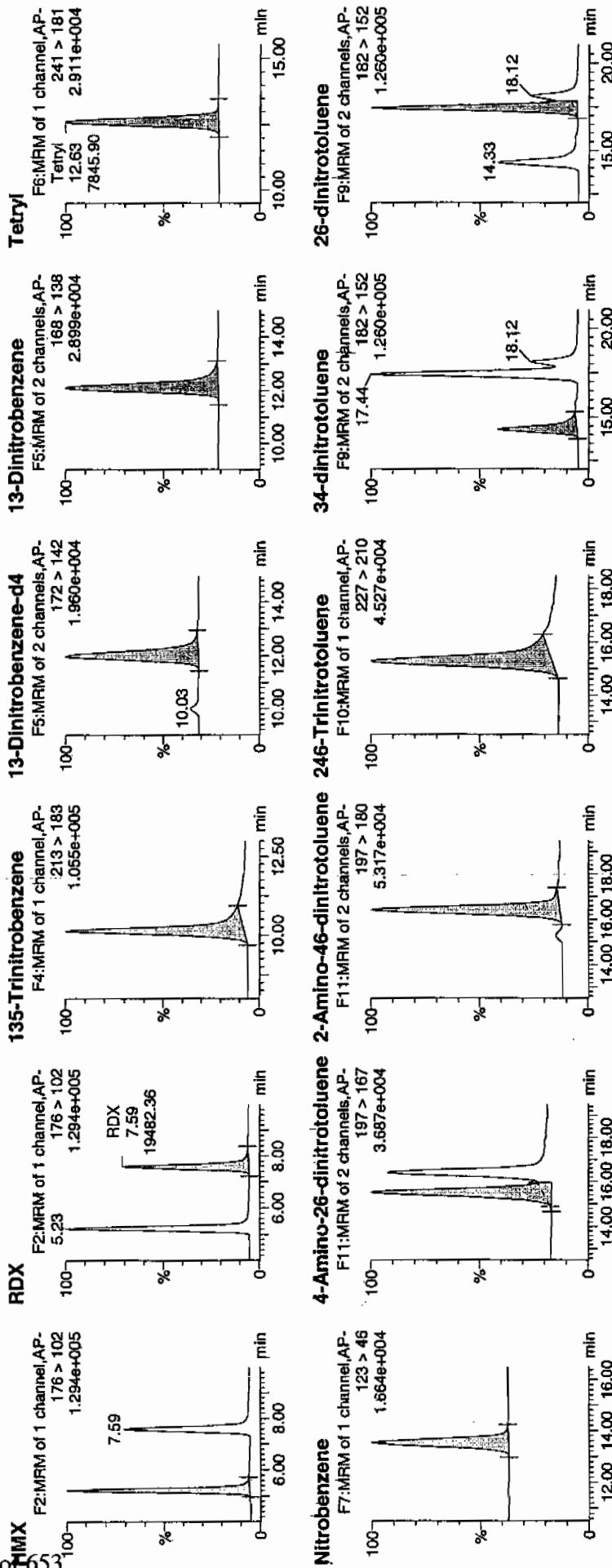
Date: 10-Apr-2010

Time: 02:06:36

ID: WXX100408-07CCV

Ratio: 1:1,B

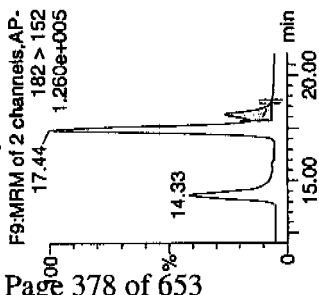
10/10/10



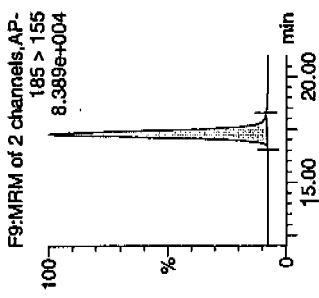
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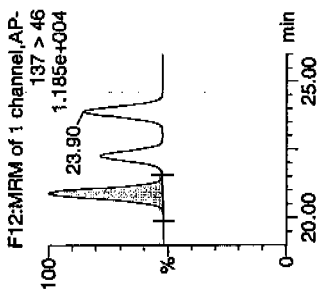
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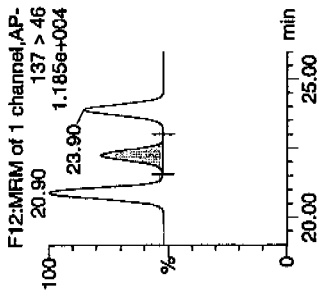
2,6-dinitrotoluene-d3



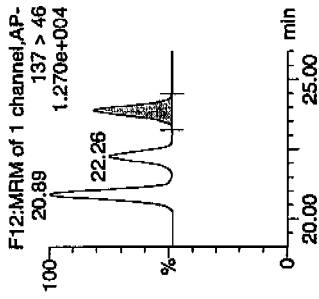
2-Nitrotoluene



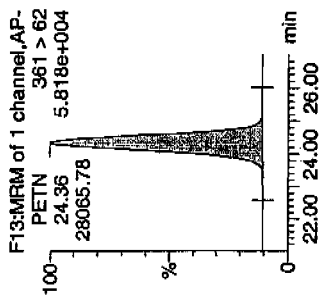
4-Nitrotoluene



3-Nitrotoluene



NETN



Name	Trace	RT	IS Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	INQ URL	INQ Desc	INQ Rev
HMx	176 > 102	5.23	24030.314	5288.059	24030.314	2272.130	bb			711.3217	118.6	18.6
RDx	176 > 102	7.59	19482.361	5288.059	19482.361	1842.109	bb			755.9338	126.0	26.0
135-Trinitrobenzene	213 > 183	10.14	28473.727	5288.059	28473.727	2692.266	bb			637.4719	106.2	6.2
13-Dinitrobenzene-d4	172 > 142	12.00	5288.059		5288.059	5288.059	bb			406.8959	81.4	-18.6
13-Dinitrobenzene	168 > 138	12.14	8664.705	5288.059	8664.705	819.271	bb			636.1433	106.0	6.0
Tetryl	241 > 181	12.63	7845.897	5288.059	7845.897	741.850	bb			720.5445	120.1	20.1
Nitrobenzene	123 > 46	13.53	3682.273	5288.059	3682.273	348.169	bb			579.3123	96.6	-3.4
4-Amino-26-dinitrotoluene	197 > 167	15.52	12800.769	31521.859	12800.769	203.046	MM	10-Apr-10	11:37:42	652.2673	108.7	8.7
2-Amino-46-dinitrotoluene	197 > 180	16.40	18975.732	31521.859	18975.732	300.993	bb			658.8739	109.8	9.8
246-Trinitrotoluene	227 > 210	15.30	18214.992	31521.859	18214.992	288.926	bb			750.8607	125.1	25.1
34-dinitrotoluene	182 > 152	14.33	19832.203	31521.859	19832.203	314.579	bb			306.7323	102.2	2.2
26-dinitrotoluene	182 > 152	17.44	43389.195	31521.859	43389.195	688.240	MM	10-Apr-10	11:38:00	605.1306	100.9	0.9
24-dinitrotoluene	182 > 152	18.12	10212.255	31521.859	10212.255	161.987	MM	10-Apr-10	11:33:20	611.8950	102.0	2.0
26-dinitrotoluene-d3	185 > 155	17.29	31521.859		31521.859	31521.859	bb			398.2273	79.8	-20.2
2-Nitrotoluene	137 > 46	20.90	2672.846	31521.859	2672.846	42.397	bb			552.3178	92.1	-7.9
4-Nitrotoluene	137 > 46	22.26	1406.156	31521.859	1406.156	22.304	bb			573.9133	95.7	-4.3
3-Nitrotoluene	137 > 46	23.90	1837.850	31521.859	1837.850	29.152	bb			533.9463	89.0	-11.0
PETN	361 > 62	24.36	28065.779	31521.859	28065.779	445.180	bb			690.7370	115.1	15.1

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/10/10
 Time of Injection: 0206
 Standard Number: WXX100408-07CCV
 Data File: EXP0408059a

HMX	118.6
RDX	126.0
135-TNB	106.2
13-DNB	106.0
Tetryl	120.1
Nitrobenzene	96.6
4A-26-DNT	108.7
2A-46-DNT	109.8
246-TNT	125.1
34-DNT(surr)	102.2
26-DNT	100.9
24-DNT	102.0
2-NT	92.1
4-NT	95.7
3-NT	89.0
PETN	115.1

Handwritten: 4/10/10

Total 1714.1

Handwritten: Ann 04/11/10

Average 107.1

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

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408061a

Analysis Date: 10-APR-10 03:05

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	46.393	116	
1,3-Dinitrobenzene-d4	500	441.96	88	
2,4,6-Trinitrotoluene	40	47.365	118	
2,4-Dinitrotoluene	40	44.761	112	
2,6-Dinitrotoluene	40	41.465	104	
2,6-Dinitrotoluene-d3	500	430.1	86	
2-Amino-4,6-dinitrotoluene	40	46.162	115	
3,4-Dinitrotoluene	20	21.13	106	
4-Amino-2,6-dinitrotoluene	40	42.51	106	
HMX	40	47.562	119	
Nitrobenzene	40	35.292	88	
PETN	40	48.648	122	
RDX	40	45.14	113	
Tetryl	40	47.002	118	
m-Dinitrobenzene	40	40.574	101	
m-Nitrotoluene	40	32.853	82	
o-Nitrotoluene	40	40.889	102	
p-Nitrotoluene	40	37.144	93	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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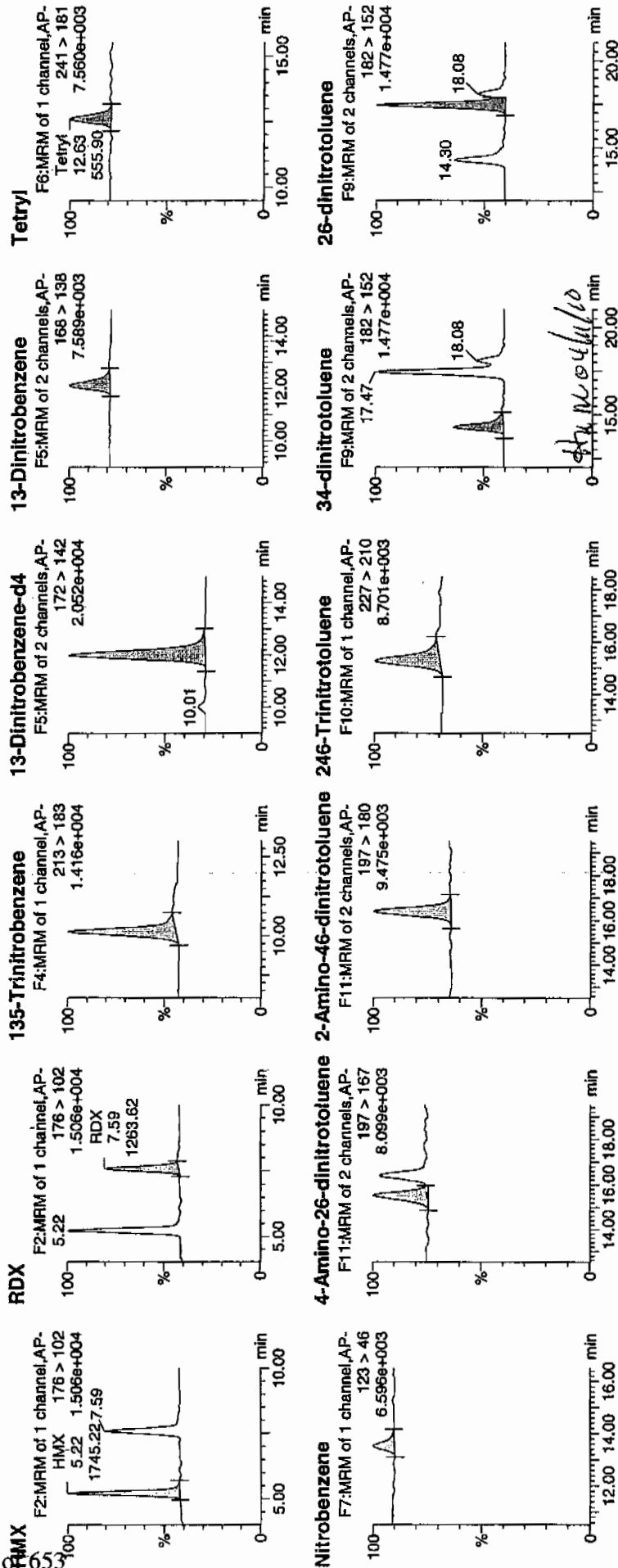
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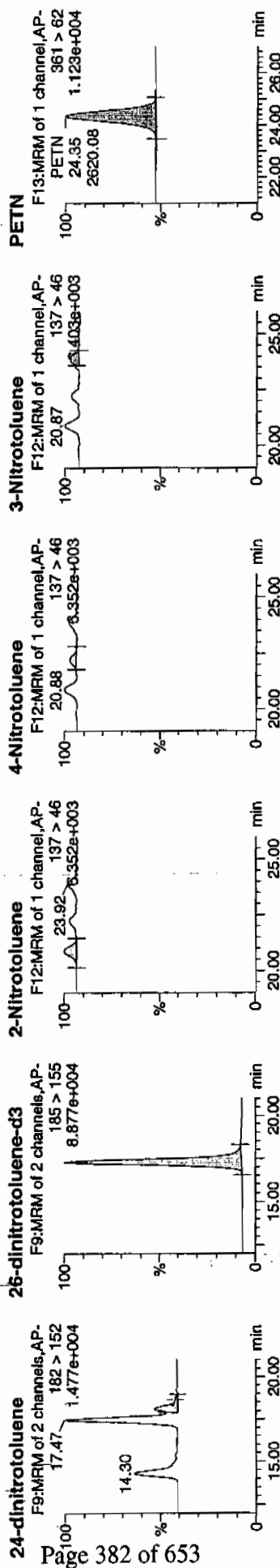
W7
4/10/10



Printed: Sat Apr 10 11:42:30 2010, Page 72 of 99

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	RT	Area	ISArea	AbsResp	Response	Flags	ModDate	ModTime	ModUser	ModReg	ModDev	ModSN
WXX100408-08CRI	HMX	176 > 102	5.22	1745.218	5743.754	1745.218	151.923	bb	47.5616	118.9	18.9	215.4		
WXX100408-08CRI	RDX	176 > 102	7.59	1263.616	5743.754	1263.616	109.999	bb	45.1396	112.8	12.8	140.6		
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.13	2250.808	5743.754	2250.808	195.935	bb	46.3933	116.0	16.0	125.9		
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	11.97	5743.754	5743.754	5743.754	57.43754	bb	441.9598	88.4	-11.6	425.1		
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.10	600.272	5743.754	600.272	52.254	bb	40.5742	101.4	1.4	50.7		
WXX100408-08CRI	Tetryl	241 > 181	12.63	555.897	5743.754	555.897	48.391	bb	47.0016	117.5	17.5	44.6		
WXX100408-08CRI	Nitrobenzene	123 > 46	13.54	243.654	5743.754	243.654	21.210	bb	35.2916	88.2	-11.8	20.9		
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.53	898.775	33959.496	898.775	13.233	MM	42.5100	106.3	6.3	48.0		
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.41	1432.301	33959.496	1432.301	21.088	bb	46.1624	115.4	15.4	39.1		
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.28	1237.884	33959.496	1237.884	18.226	bb	47.3654	118.4	18.4	23.7		
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.30	1471.854	33959.496	1471.854	21.671	bb	21.1302	105.7	5.7	67.8		
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.47	3203.022	33959.496	3203.022	47.159	MM	41.4847	103.7	9.7	175.2		
WXX100408-08CRI	24-dinitrotoluene	182 > 152	18.08	804.818	33959.496	804.818	11.850	MM	44.7607	111.9	11.9	37.0		
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.27	33959.496	33959.496	33959.496	33959.496	bb	430.1002	86.0	-14.0	2024.8		
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.88	213.177	33959.496	213.177	3.139	bb	40.8890	102.2	2.2	49.3		
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.23	98.046	33959.496	98.046	1.444	bb	37.1444	92.9	-7.1	25.1		
WXX100408-08CRI	3-Nitrotoluene	137 > 46	24.00	121.825	33959.496	121.825	1.794	db	32.8530	82.1	-17.9	11.1		
WXX100408-08CRI	PETN	361 > 62	24.35	2620.083	33959.496	2620.083	38.577	bb	48.6484	121.6	21.6	379.5		

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/10/10
 Time of Injection 0305
 Standard Number WXX100408-08CRI
 Data File EXP0408061a

HMX	118.9
RDX	112.8
135-TNB	116.0
13-DNB	101.4
Tetryl	117.5
Nitrobenzene	88.2
4A-26-DNT	106.3
2A-46-DNT	115.4
246-TNT	118.4
34-DNT(surr)	105.7
26-DNT	103.7
24-DNT	111.9
2-NT	102.2
4-NT	92.9
3-NT	82.1
PETN	121.6
Total	1715.0

2077
4/10/10

Average

107.2

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408072a

Analysis Date: 10-APR-10 08:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4,6-Trinitrotoluene	600	753.785	126	*
2,4-Dinitrotoluene	600	638.151	106	
2,6-Dinitrotoluene	600	616.994	103	
2,6-Dinitrotoluene-d3	500	402.197	80	
2-Amino-4,6-dinitrotoluene	600	686.265	114	
3,4-Dinitrotoluene	300	310.058	103	
4-Amino-2,6-dinitrotoluene	600	642.746	107	
HMX	600	660.224	110	
Nitrobenzene	600	526.993	88	
PETN	600	719.605	120	
RDX	600	678.872	113	
Tetryl	600	856.18	143	*
m-Dinitrobenzene	600	587.331	98	
m-Nitrotoluene	600	507.624	85	
o-Nitrotoluene	600	528.075	88	
p-Nitrotoluene	600	578.663	96	
1,3,5-Trinitrobenzene	600	582.253	97	
1,3-Dinitrobenzene-d4	500	448.35	90	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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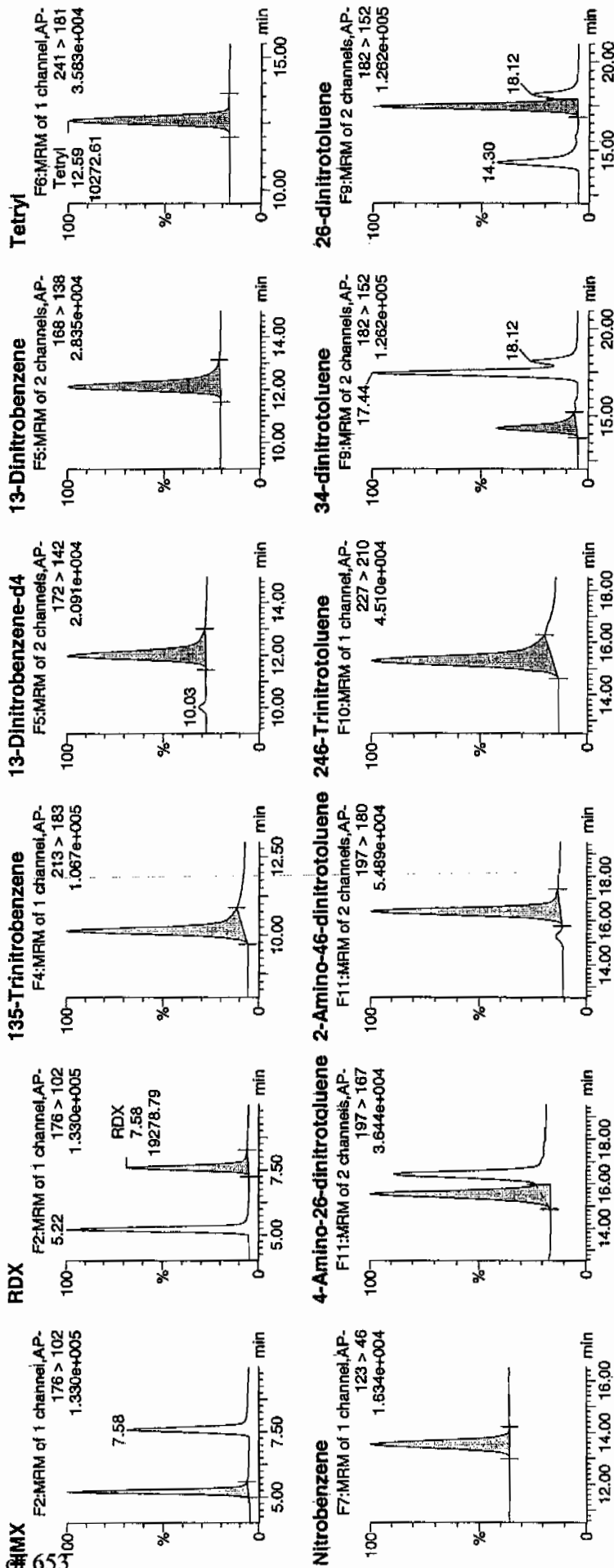
Date: 10-Apr-2010

Time: 08:30:12

ID: WXX100408-07CCV

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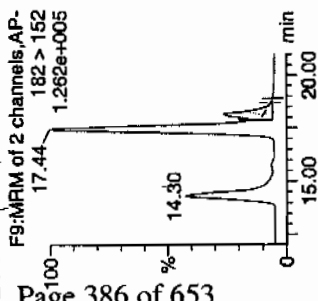
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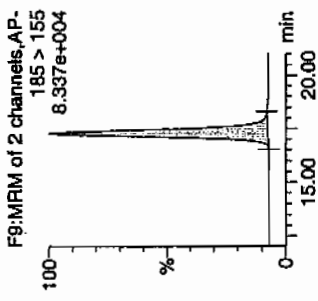
4/10/10

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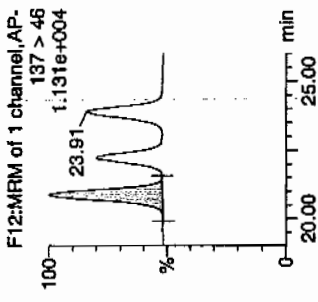
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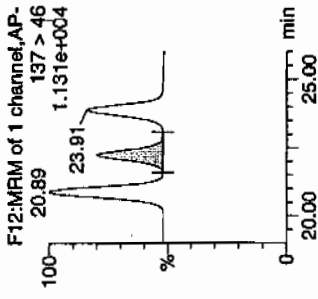
26-dinitrotoluene-d3



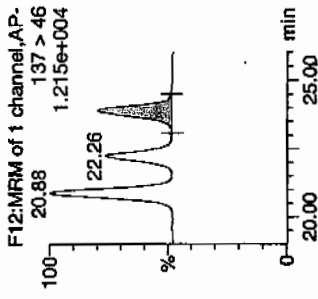
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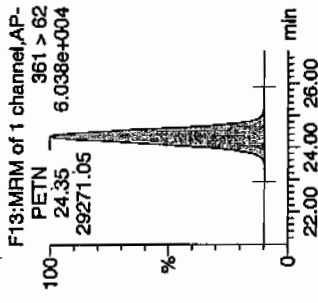
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	Area	Area	Area	Response	Flags	Mod Date	Mod Time	Mod User	Mod Pass	
WXX100408-07CCV	HMX	176 > 102	5.22	24576.387	5826.798	24576.387	2108.910	bb	660.2235	110.0	10.0	2536.6
WXX100408-07CCV	RDX	176 > 102	7.58	19278.787	5826.798	19278.787	1654.321	bb	678.8725	113.1	13.1	1691.0
WXX100408-07CCV	135-Trinitrobenzene	213 > 183	10.13	28656.854	5826.798	28656.854	2459.057	bb	582.2528	97.0	-3.0	2546.3
WXX100408-07CCV	13-Dinitrobenzene-d4	172 > 142	11.98	5826.798	5826.798	5826.798	5826.798	bb	448.3498	89.7	-10.8	468.6
WXX100408-07CCV	13-Dinitrobenzene	168 > 138	12.11	8814.859	5826.798	8814.859	756.407	bb	587.3309	97.9	-2.1	882.3
WXX100408-07CCV	Tetryl	241 > 181	12.59	10272.608	5826.798	10272.608	881.497	bb	856.1803	142.7	42.7	680.1
WXX100408-07CCV	Nitrobenzene	123 > 46	13.54	3690.978	5826.798	3690.978	316.724	bb	526.9926	87.8	-12.2	293.6
WXX100408-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.53	12707.749	31756.346	12707.749	200.082	MM	642.7461	107.1	7.1	272.5
WXX100408-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.41	19911.619	31756.346	19911.619	313.506	bb	686.2647	114.4	14.4	1139.7
WXX100408-07CCV	246-Trinitrotoluene	227 > 210	15.28	18421.951	31756.346	18421.951	290.051	bb	753.7846	125.6	25.6	829.6
WXX100408-07CCV	34-dinitrotoluene	182 > 152	14.30	20196.369	31756.346	20196.369	317.989	bb	310.0582	103.4	3.4	821.6
WXX100408-07CCV	26-dinitrotoluene	182 > 152	17.44	44568.953	31756.346	44568.953	701.733	MM	616.9945	102.8	2.8	2086.3
WXX100408-07CCV	24-dinitrotoluene	182 > 152	18.12	10729.860	31756.346	10729.860	168.940	MM	638.1510	106.4	6.4	452.2
WXX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.27	31756.346	31756.346	31756.346	31756.346	bb	402.1971	80.4	-19.6	2832.3
WXX100408-07CCV	2-Nitrotoluene	137 > 46	20.89	2574.537	31756.346	2574.537	40.536	bb	528.0749	88.0	-12.0	350.0
WXX100408-07CCV	4-Nitrotoluene	137 > 46	22.26	1428.339	31756.346	1428.339	22.489	bb	578.6626	96.4	-3.6	203.4
WXX100408-07CCV	3-Nitrotoluene	137 > 46	23.91	1760.246	31756.346	1760.246	27.715	bb	507.6240	84.6	-15.4	82.9
WXX100408-07CCV	PETN	361 > 62	24.35	29271.053	31756.346	29271.053	480.869	bb	719.6051	119.9	19.9	6628.8

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/10/10
 Time of Injection: 0830
 Standard Number: WXX100408-07CCV
 Data File: EXP0408072a

HMX	110.0
RDX	113.1
135-TNB	97.0
13-DNB	97.9
Tetryl	142.7
Nitrobenzene	87.8
4A-26-DNT	107.1
2A-46-DNT	114.4
246-TNT	125.6
34-DNT(surr)	103.4
26-DNT	102.8
24-DNT	106.4
2-NT	88.0
4-NT	96.4
3-NT	84.6
PETN	119.9

*not
4/10/10*

Total 1697.1

Average 106.1

Sum 04/10/10
 ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408074a

Analysis Date: 10-APR-10 09:29

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	40	40.128	100	
PETN	40	47.507	119	
RDX	40	46.162	115	
Tetryl	40	47.137	118	
m-Dinitrobenzene	40	43.479	109	
m-Nitrotoluene	40	30.676	77	
o-Nitrotoluene	40	37.061	93	
p-Nitrotoluene	40	36.459	91	
1,3,5-Trinitrobenzene	40	46.83	117	
1,3-Dinitrobenzene-d4	500	462.781	93	
2,4,6-Trinitrotoluene	40	43.139	108	
2,4-Dinitrotoluene	40	40.465	101	
2,6-Dinitrotoluene	40	41.672	104	
2,6-Dinitrotoluene-d3	500	459.746	92	
2-Amino-4,6-dinitrotoluene	40	40.75	102	
3,4-Dinitrotoluene	20	19.792	99	
4-Amino-2,6-dinitrotoluene	40	41.358	103	
HMX	40	50.292	126	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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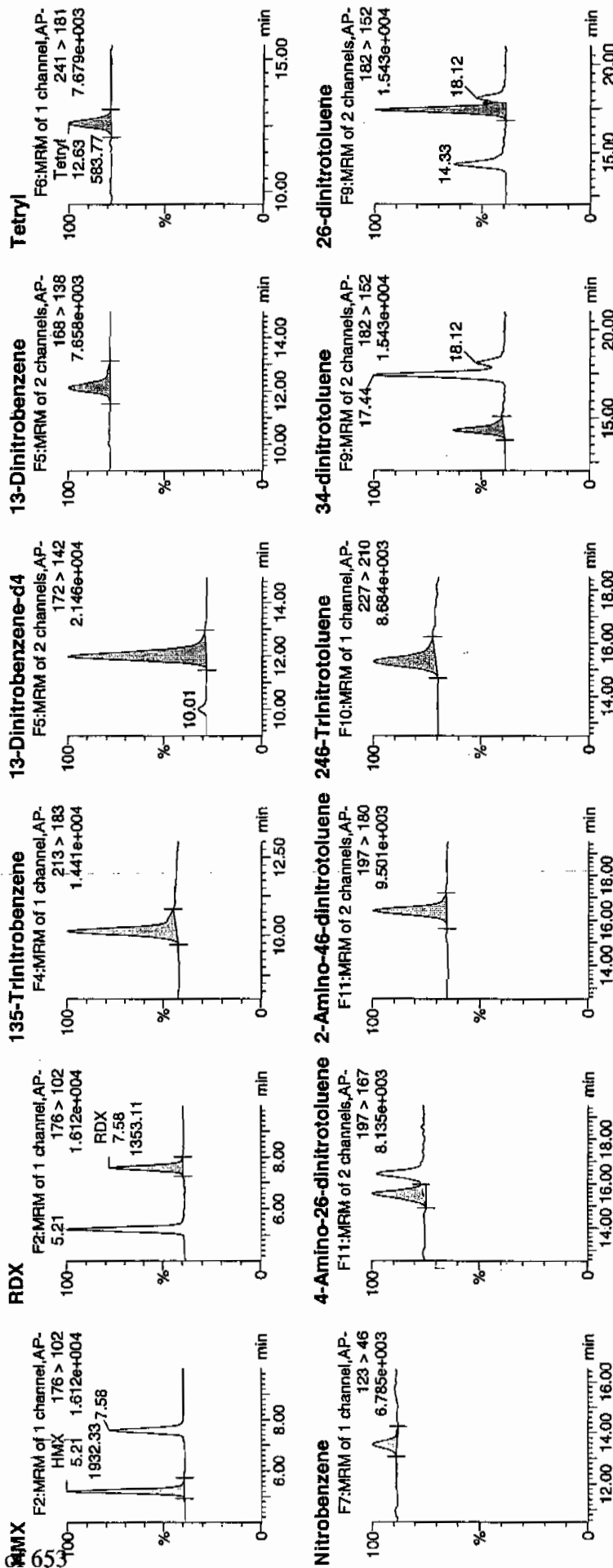
Date: 10-Apr-2010

Time: 09:29:16

ID: WXX100408-08CRI

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4/10/10

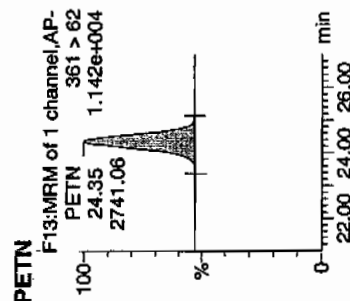
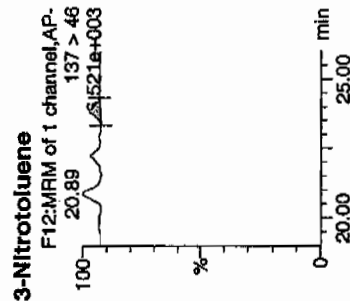
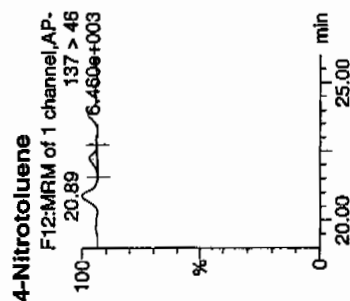
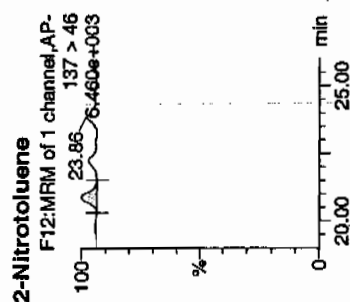
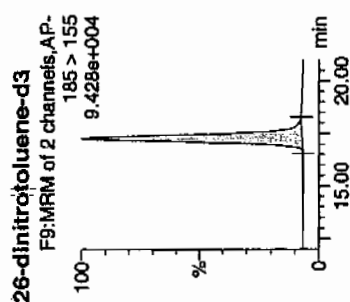
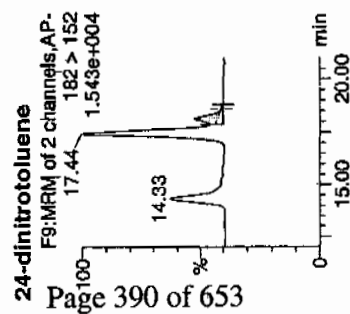


4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



Name	Trace	FI	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Int (m)	Ext (m)	PreV	SN
HMx	176 > 102	5.21	1932.331	6014.345	1932.331	160.644	bb			50.2917	125.7	25.7	269.5
RDX	176 > 102	7.58	1353.113	6014.345	1353.113	112.490	bb			46.1620	115.4	15.4	170.3
135-Trinitrobenzene	213 > 183	10.14	2379.034	6014.345	2379.034	197.780	bb			46.8301	117.1	17.1	320.6
13-Dinitrobenzene-d4	172 > 142	11.97	6014.345		6014.345	6014.345	bb			462.7808	92.6	-7.4	585.4
13-Dinitrobenzene	168 > 138	12.14	673.543	6014.345	673.543	55.995	bb			43.4785	108.7	8.7	107.4
Tetryl	241 > 181	12.63	583.766	6014.345	583.766	48.531	bb			47.1373	117.8	17.8	43.9
Nitrobenzene	123 > 46	13.53	290.097	6014.345	290.097	24.117	bb			40.1280	100.3	0.3	26.9
4-Amino-26-dinitrotoluene	197 > 167	15.52	934.681	36300.254	934.681	12.874	MM	10-Apr-10	11:36:54	41.3576	103.4	3.4	52.1
2-Amino-46-dinitrotoluene	197 > 180	16.40	1351.508	36300.254	1351.508	18.616	bb			40.7497	101.9	1.9	110.4
246-Trinitrotoluene	227 > 210	15.30	1205.129	36300.254	1205.129	16.599	bb			43.1386	107.8	7.8	53.1
34-dinitrotoluene	182 > 152	14.33	1473.642	36300.254	1473.642	20.298	bb			19.7917	99.0	-1.0	73.1
26-dinitrotoluene	182 > 152	17.44	3440.934	36300.254	3440.934	47.395	MM	10-Apr-10	11:36:23	41.6722	104.2	4.2	191.5
24-dinitrotoluene	182 > 152	18.12	777.731	36300.254	777.731	10.712	MM	10-Apr-10	11:32:43	40.4650	101.2	1.2	39.8
26-dinitrotoluene-d3	185 > 155	17.26	36300.254		36300.254	36300.254	bb			459.7461	91.9	-8.1	3232.9
2-Nitrotoluene	137 > 46	20.89	206.536	36300.254	206.536	2.845	bb			37.0606	92.7	-7.3	64.5
4-Nitrotoluene	137 > 46	22.25	102.871	36300.254	102.871	1.417	bb			36.4593	91.1	-8.9	94.7
3-Nitrotoluene	137 > 46	23.85	121.594	36300.254	121.594	1.675	bb			30.6762	76.7	-28.3	14.3
PETN	361 > 62	24.35	2741.064	36300.254	2741.064	37.755	bb			47.5068	118.8	18.8	161.9

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/10/10
 Time of Injection 0929
 Standard Number WXX100408-08CRI
 Data File EXP0408074a

HMX	125.7
RDX	115.4
135-TNB	117.1
13-DNB	108.7
Tetryl	117.8
Nitrobenzene	100.3
4A-26-DNT	103.4
2A-46-DNT	101.9
246-TNT	107.8
34-DNT(surr)	99.0
26-DNT	104.2
24-DNT	101.2
2-NT	92.7
4-NT	91.1
3-NT	76.7
PETN	118.8

*WPP
9/12/10*

Total 1681.8

Average 105.1

Handwritten: 04/10/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408085a

Analysis Date: 10-APR-10 14:53

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
RDX	600	723.103	121	*
Tetryl	600	762.469	127	*
m-Dinitrobenzene	600	619.292	103	
m-Nitrotoluene	600	493.304	82	
o-Nitrotoluene	600	535.244	89	
p-Nitrotoluene	600	572.407	95	
1,3,5-Trinitrobenzene	600	636.106	106	
1,3-Dinitrobenzene-d4	500	371.009	74	*
2,4,6-Trinitrotoluene	600	748.482	125	*
2,4-Dinitrotoluene	600	589.616	98	
2,6-Dinitrotoluene	600	594.847	99	
2,6-Dinitrotoluene-d3	500	366.196	73	*
2-Amino-4,6-dinitrotoluene	600	651.106	109	
3,4-Dinitrotoluene	300	290.529	97	
4-Amino-2,6-dinitrotoluene	600	623.686	104	
HMX	600	695.105	116	
Nitrobenzene	600	579.84	97	
PETN	600	689.507	115	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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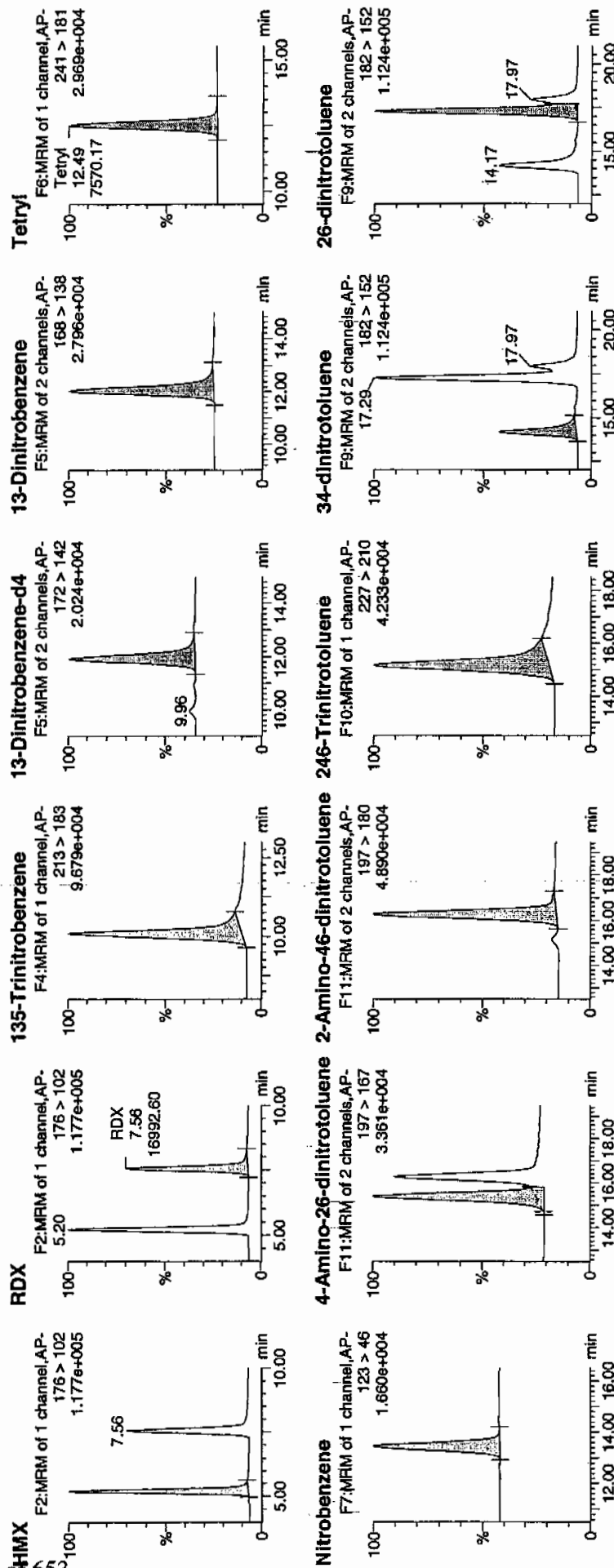
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Vial: 1:1,B

MM
4/11/10

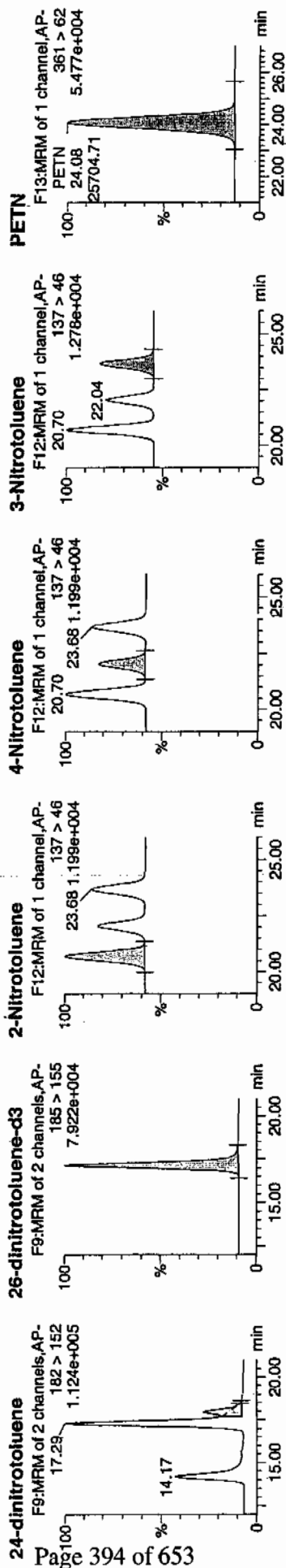


4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010



ID	Name	Trace	Rt	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Inj Vol	Peak	Area	Height
WXX100410-07CCV	HMX	176 > 102	5.20	21411.418	4821.674	21411.418	2220.330	bb			695.1052	115.9	15.9	1690.9
WXX100410-07CCV	RDX	176 > 102	7.56	16992.596	4821.674	16992.596	1762.105	bb			723.1033	120.5	20.5	1143.0
WXX100410-07CCV	135-Trinitrobenzene	213 > 183	10.09	25906.832	4821.674	25906.832	2686.498	bb			636.1060	106.0	6.0	471.5
WXX100410-07CCV	13-Dinitrobenzene-d4	172 > 142	11.92	4821.674		4821.674	4821.674	bb			371.0093	74.2	-25.8	338.5
WXX100410-07CCV	13-Dinitrobenzene	168 > 138	12.03	7691.231	4821.674	7691.231	797.569	bb			619.2920	103.2	3.2	268.0
WXX100410-07CCV	Tetryl	241 > 181	12.49	7570.172	4821.674	7570.172	785.015	bb			762.4693	127.1	27.1	633.9
WXX100410-07CCV	Nitrobenzene	123 > 46	13.45	3360.572	4821.674	3360.572	348.486	bb			579.8403	96.6	-3.4	220.4
WXX100410-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.39	11227.153	28913.775	11227.153	194.149	MM	11-Apr-10	11:37:03	623.6863	103.9	3.9	224.7
WXX100410-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.26	17200.504	28913.775	17200.504	297.445	bb			651.1064	108.5	8.5	1039.3
WXX100410-07CCV	26-Trinitrotoluene	227 > 210	15.18	16654.984	28913.775	16654.984	288.011	bb			748.4824	124.7	24.7	821.7
WXX100410-07CCV	34-dinitrotoluene	182 > 152	14.17	17230.328	28913.775	17230.328	297.961	bb			290.5288	96.8	-3.2	509.9
WXX100410-07CCV	26-dinitrotoluene	182 > 152	17.29	39122.848	28913.775	39122.848	676.543	MM	11-Apr-10	11:40:59	594.8467	99.1	-0.9	1327.1
WXX100410-07CCV	24-dinitrotoluene	182 > 152	17.97	9026.385	28913.775	9026.385	156.091	MM	11-Apr-10	11:42:24	589.6157	98.3	-1.7	288.6
WXX100410-07CCV	26-dinitrotoluene-d3	185 > 155	17.14	28913.775		28913.775	28913.775	bb			366.1957	73.2	-26.8	3387.6
WXX100410-07CCV	2-Nitrotoluene	137 > 46	20.70	2375.910	28913.775	2375.910	41.086	bb			535.2444	89.2	-10.8	104.4
WXX100410-07CCV	4-Nitrotoluene	137 > 46	22.05	1286.426	28913.775	1286.426	22.246	bb			572.4066	95.4	-4.6	59.8
WXX100410-07CCV	3-Nitrotoluene	137 > 46	23.69	1557.471	28913.775	1557.471	26.933	bb			493.3038	82.2	-17.8	35.2
WXX100410-07CCV	PETN	361 > 62	24.08	25704.707	28913.775	25704.707	444.506	bb			689.5071	114.9	14.9	7447.5

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/10/10
 Time of Injection: 1453
 Standard Number: WXX100410-07CCV
 Data File: EXP0408085a

HMX	115.9
RDX	120.5
135-TNB	106.0
13-DNB	103.2
Tetryl	127.1
Nitrobenzene	96.6
4A-26-DNT	103.9
2A-46-DNT	108.5
246-TNT	124.7
34-DNT(surr)	96.8
26-DNT	99.1
24-DNT	98.3
2-NT	89.2
4-NT	95.4
3-NT	82.2
PETN	114.9

4/11/10

Total 1682.3

Average 105.1

Handwritten: 4/11/10

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

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408087a

Analysis Date: 10-APR-10 15:52

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	49.672	124	
1,3-Dinitrobenzene-d4	500	444.755	89	
2,4,6-Trinitrotoluene	40	47.969	120	
2,4-Dinitrotoluene	40	39.334	98	
2,6-Dinitrotoluene	40	39.88	100	
2,6-Dinitrotoluene-d3	500	421.031	84	
2-Amino-4,6-dinitrotoluene	40	42.049	105	
3,4-Dinitrotoluene	20	20.099	100	
4-Amino-2,6-dinitrotoluene	40	40.256	101	
HMX	40	43.574	109	
Nitrobenzene	40	41.715	104	
PETN	40	48.304	121	
RDX	40	44.899	112	
Tetryl	40	46.92	117	
m-Dinitrobenzene	40	40.108	100	
m-Nitrotoluene	40	37.251	93	
o-Nitrotoluene	40	35.231	88	
p-Nitrotoluene	40	34.204	86	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408087a

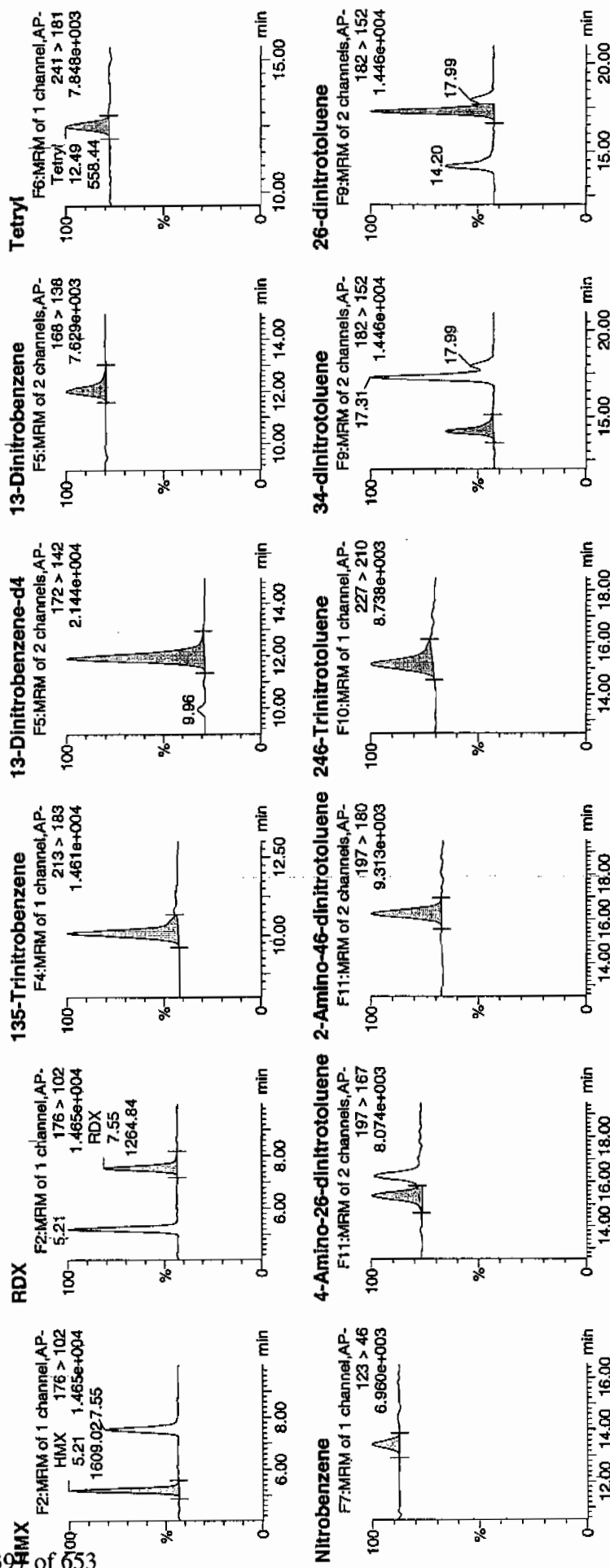
Date: 10-Apr-2010

Time: 15:52:55

ID: WXX100410-08CRI

Vial: 1:1,C

10/11/10
4/11/10

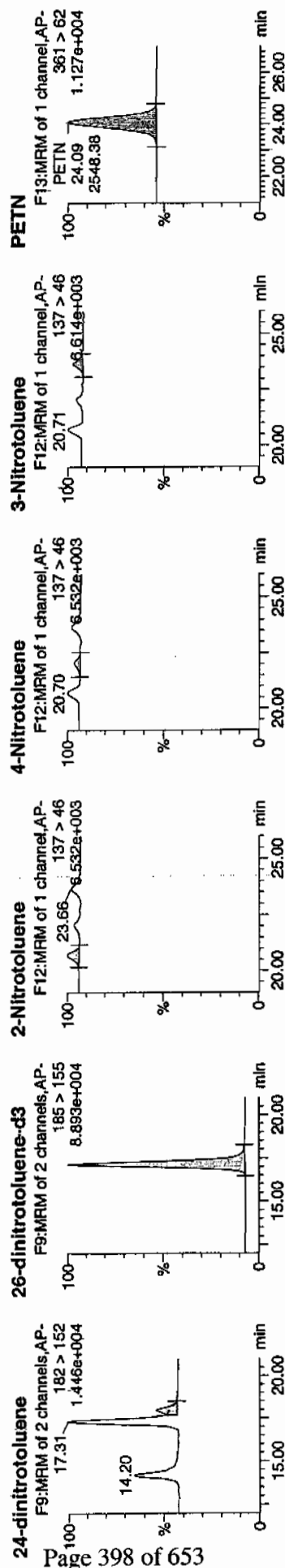


10/11/10
4/11/10

Quantify Sample Report

Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010



ID	Name	Trace	RT	Area	S Area	Area/Resp	Response	Flags	Mod Date	Mod Time	Count	Area	Area/Resp	Mod	MSD
WXX100410-08CRI	HMX	176 > 102	5.21	1609.024	5780.081	1609.024	139.187	bb			43.5744	108.9	8.9	133.4	
WXX100410-08CRI	RDX	176 > 102	7.55	1264.841	5780.081	1264.841	109.414	bb			44.8994	112.2	12.2	89.0	
WXX100410-08CRI	135-T.rinitrobenzene	213 > 183	10.09	2425.127	5780.081	2425.127	209.783	bd			49.6722	124.2	24.2	294.1	
WXX100410-08CRI	13-Dinitrobenzene-d4	172 > 142	11.92	5780.081		5780.081	5780.081	bb			444.7551	89.0	-11.0	1113.8	
WXX100410-08CRI	13-Dinitrobenzene	168 > 138	12.03	597.128	5780.081	597.128	51.654	bb			40.1080	100.3	0.3	57.3	
WXX100410-08CRI	Tetryl	241 > 181	12.49	558.444	5780.081	558.444	48.308	bb			46.9202	117.3	17.3	42.1	
WXX100410-08CRI	Nitrobenzene	123 > 46	13.45	289.821	5780.081	289.821	25.071	bb			41.7147	104.3	4.3	22.9	
WXX100410-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.38	833.179	33243.383	833.179	12.532	MM	11-Apr-10	11:37:10	40.2564	100.6	0.6	40.4	
WXX100410-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.25	1277.164	33243.383	1277.164	19.209	bb			42.0491	105.1	5.1	94.2	
WXX100410-08CRI	246-T.rinitrotoluene	227 > 210	15.17	1227.224	33243.383	1227.224	18.458	bb			47.9690	119.9	19.9	91.5	
WXX100410-08CRI	34-dinitrotoluene	182 > 152	14.20	1370.500	33243.383	1370.500	20.613	bb			20.0990	100.5	0.5	67.1	
WXX100410-08CRI	26-dinitrotoluene	182 > 152	17.31	3015.613	33243.383	3015.613	45.357	MM	11-Apr-10	11:40:45	39.8795	99.7	-0.3	171.7	
WXX100410-08CRI	24-dinitrotoluene	182 > 152	17.99	692.322	33243.383	692.322	10.413	MM	11-Apr-10	11:42:36	39.3335	98.3	-1.7	32.3	
WXX100410-08CRI	26-dinitrotoluene-d3	185 > 155	17.13	33243.383		33243.383	33243.383	bb			421.0306	84.2	-15.8	1433.9	
WXX100410-08CRI	2-Nitrotoluene	137 > 46	20.70	179.806	33243.383	179.806	2.704	bb			35.2311	88.1	-11.9	47.3	
WXX100410-08CRI	4-Nitrotoluene	137 > 46	22.06	88.380	33243.383	88.380	1.329	bb			34.2037	85.5	-14.5	23.4	
WXX100410-08CRI	3-Nitrotoluene	137 > 46	23.66	135.222	33243.383	135.222	2.034	bb			37.2513	93.1	-6.9	20.4	
WXX100410-08CRI	PETN	361 > 62	24.09	2548.383	33243.383	2548.383	38.329	bb			48.3044	120.8	20.8	505.8	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/10/10
 Time of Injection 1552
 Standard Number WXX100410-08CRI
 Data File EXP0408087a

HMX	108.9
RDX	112.2
135-TNB	124.2
13-DNB	100.3
Tetryl	117.3
Nitrobenzene	104.3
4A-26-DNT	100.6
2A-46-DNT	105.1
246-TNT	119.9
34-DNT(surr)	100.5
26-DNT	99.7
24-DNT	98.3
2-NT	88.1
4-NT	85.5
3-NT	93.1
PETN	120.8

11/11/10

Total 1678.8

Average 104.9

Handwritten: 04/11/10

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

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220013.wiff

Analysis Date: 22-MAR-10 18:21

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

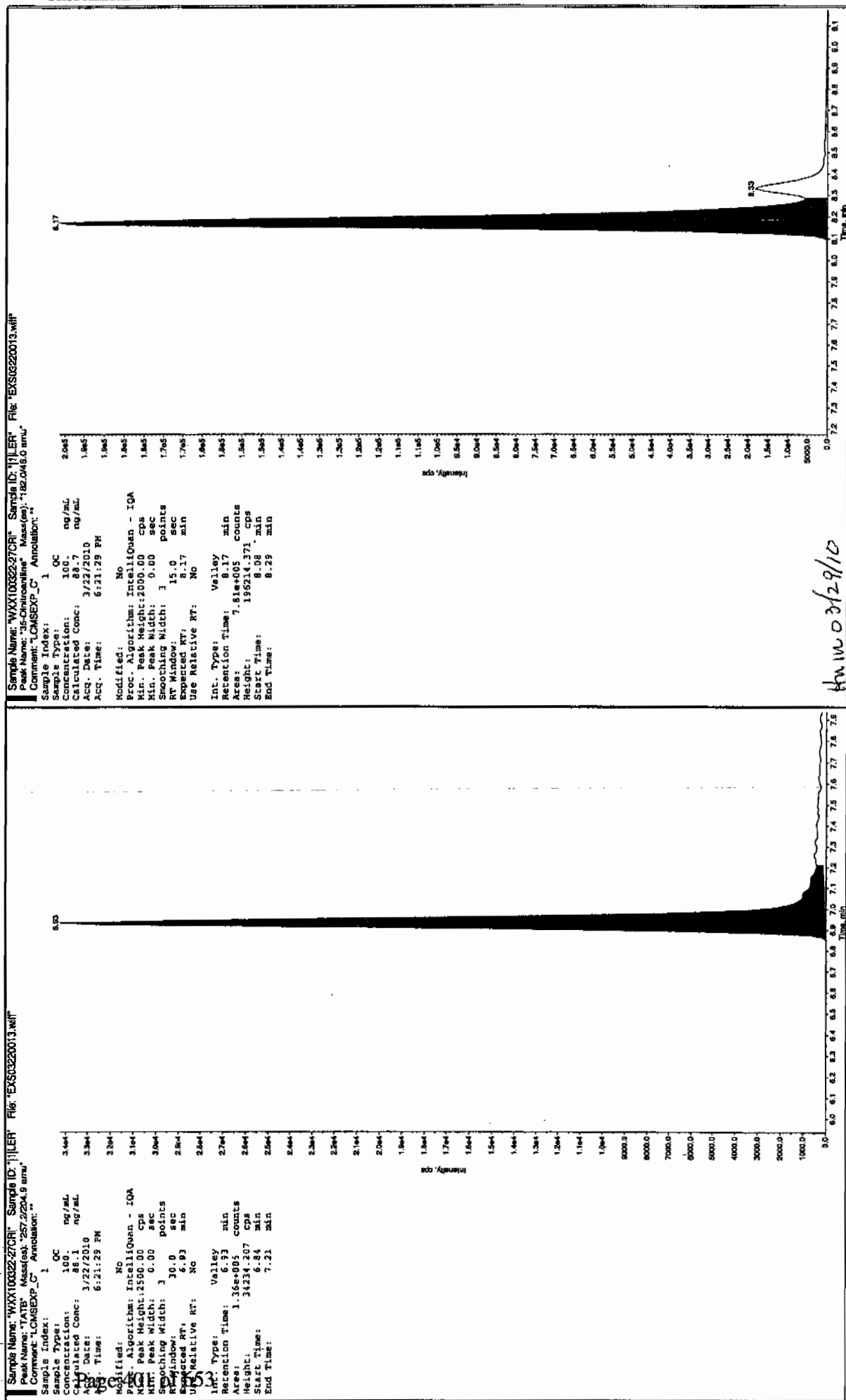
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

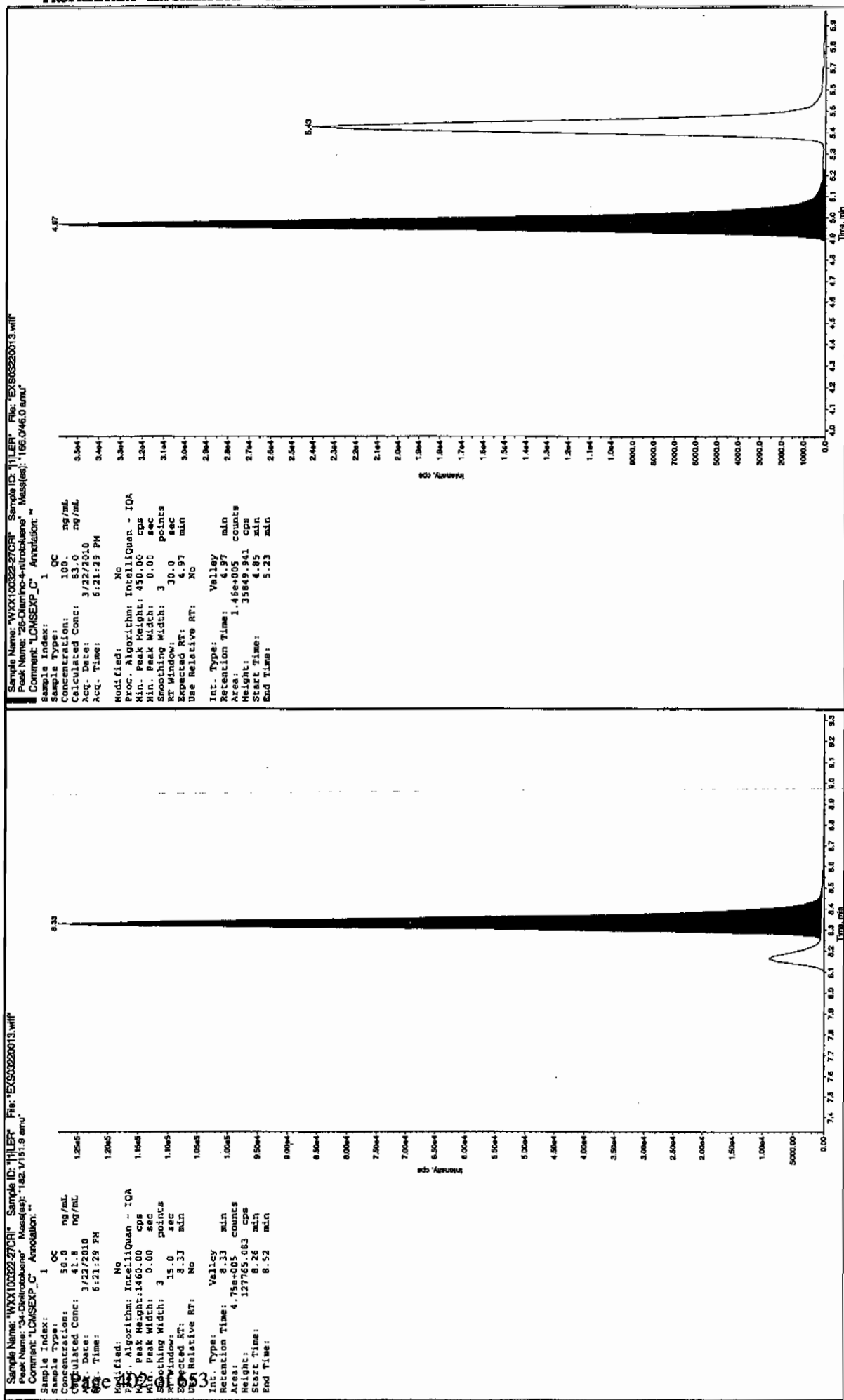
Column used to flag Recovery outside of Limits

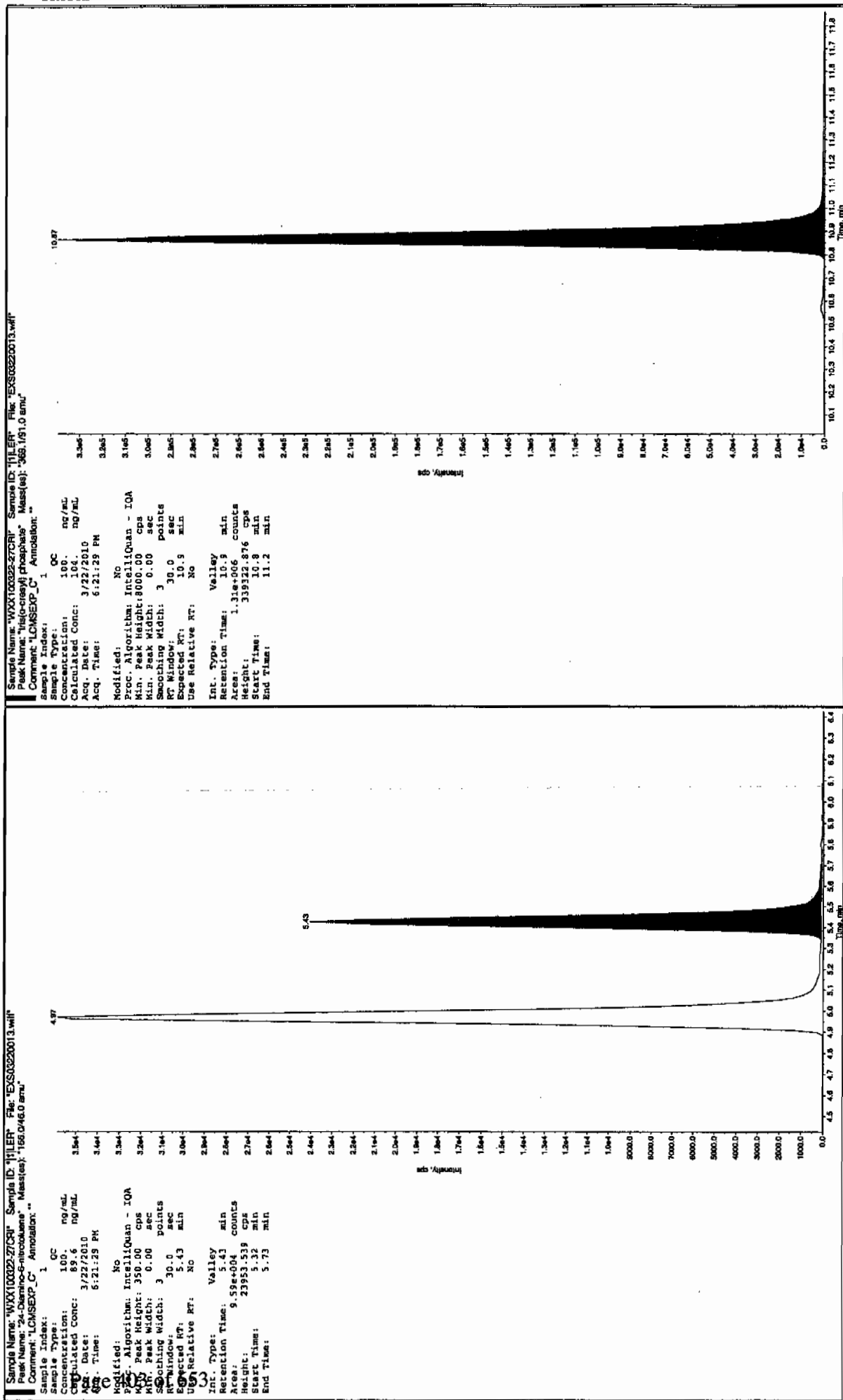
* Value outside of Recovery Limits

8227110



8227110





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220022.wiff

Analysis Date: 22-MAR-10 20:42

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 327110

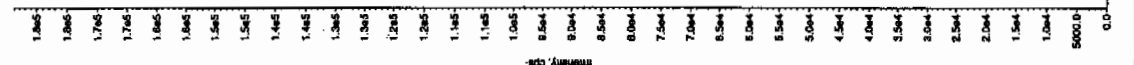
Sample Name: "WXX100322-260CV" Sample ID: "111ER" File: "EX03220022.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/22/2010 ng/mL
 Acq. Date: 8:42:53 PM
 Acq. Time: 8:42:53 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.96 min
 Area: 7.91e+005 counts
 Height: 184077.454 cps
 Start Time: 6.86 min
 End Time: 7.79 min



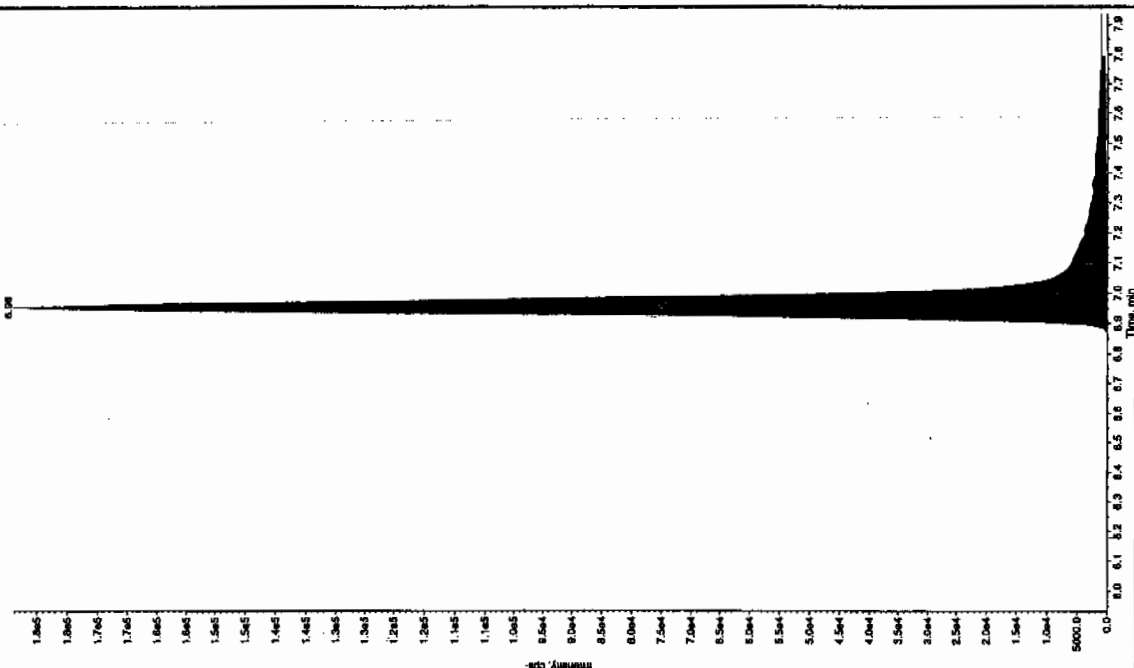
Sample Name: "WXX100322-280CV" Sample ID: "111ER" File: "EX03220022.wif"
 Peak Name: "3S-Dinitroanthracene" Mass(es): "182.0445.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

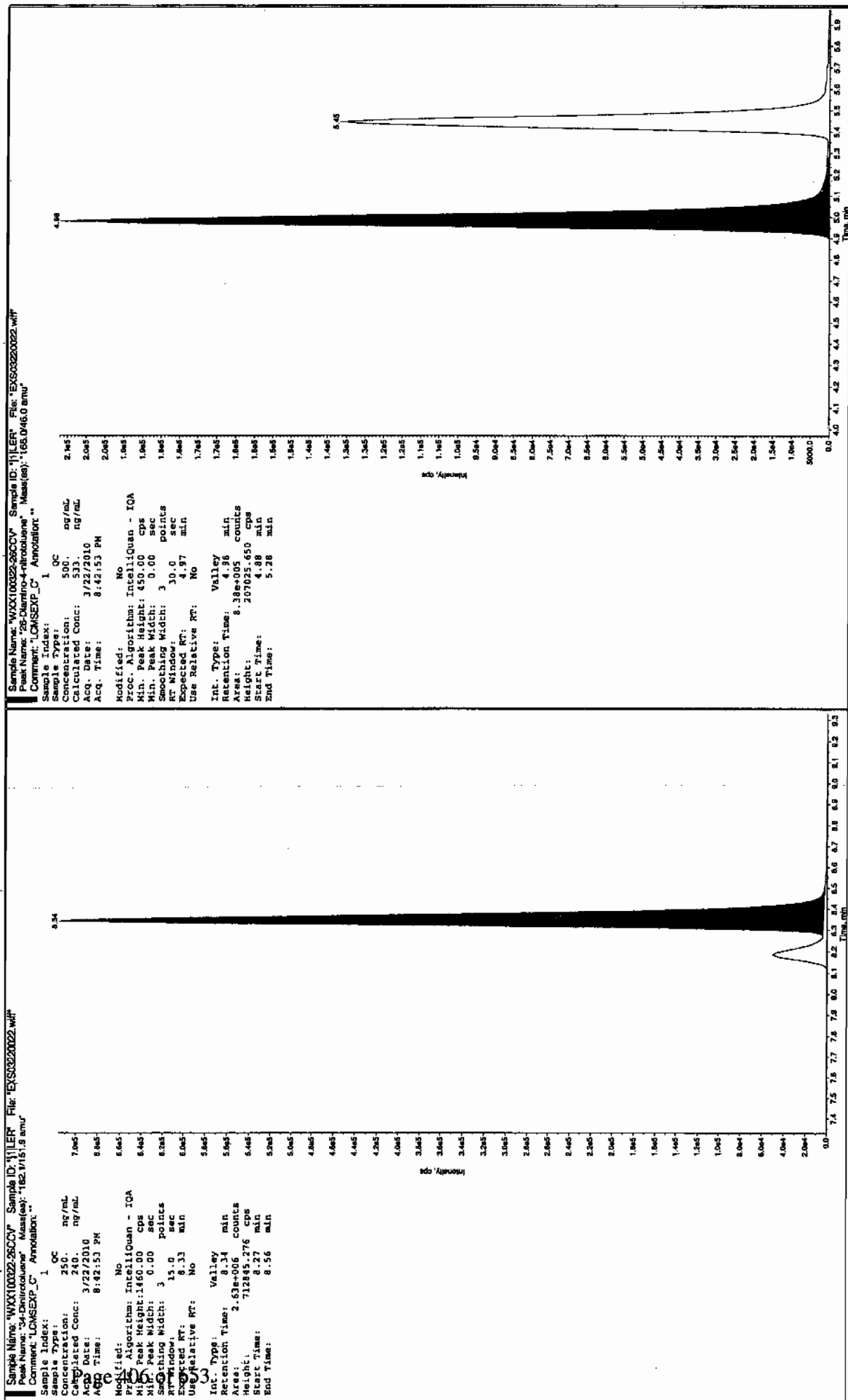
Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/22/2010 ng/mL
 Acq. Date: 8:42:53 PM
 Acq. Time: 8:42:53 PM

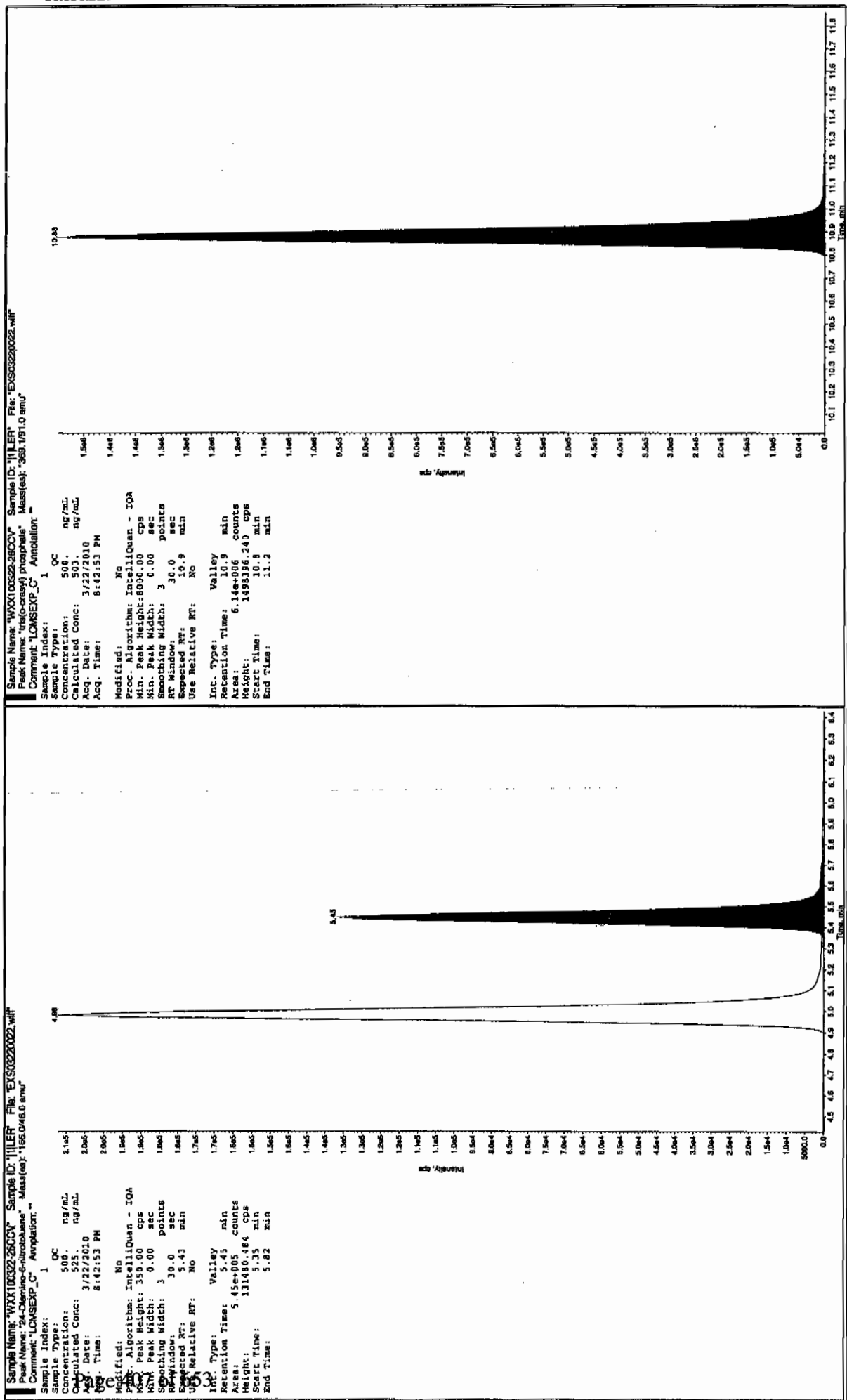
Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.20 min
 Area: 4.17e+006 counts
 Height: 1018683.899 cps
 Start Time: 8.09 min
 End Time: 8.30 min



Run 327110





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXS03220024.wiff

Analysis Date: 22-MAR-10 21:14

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

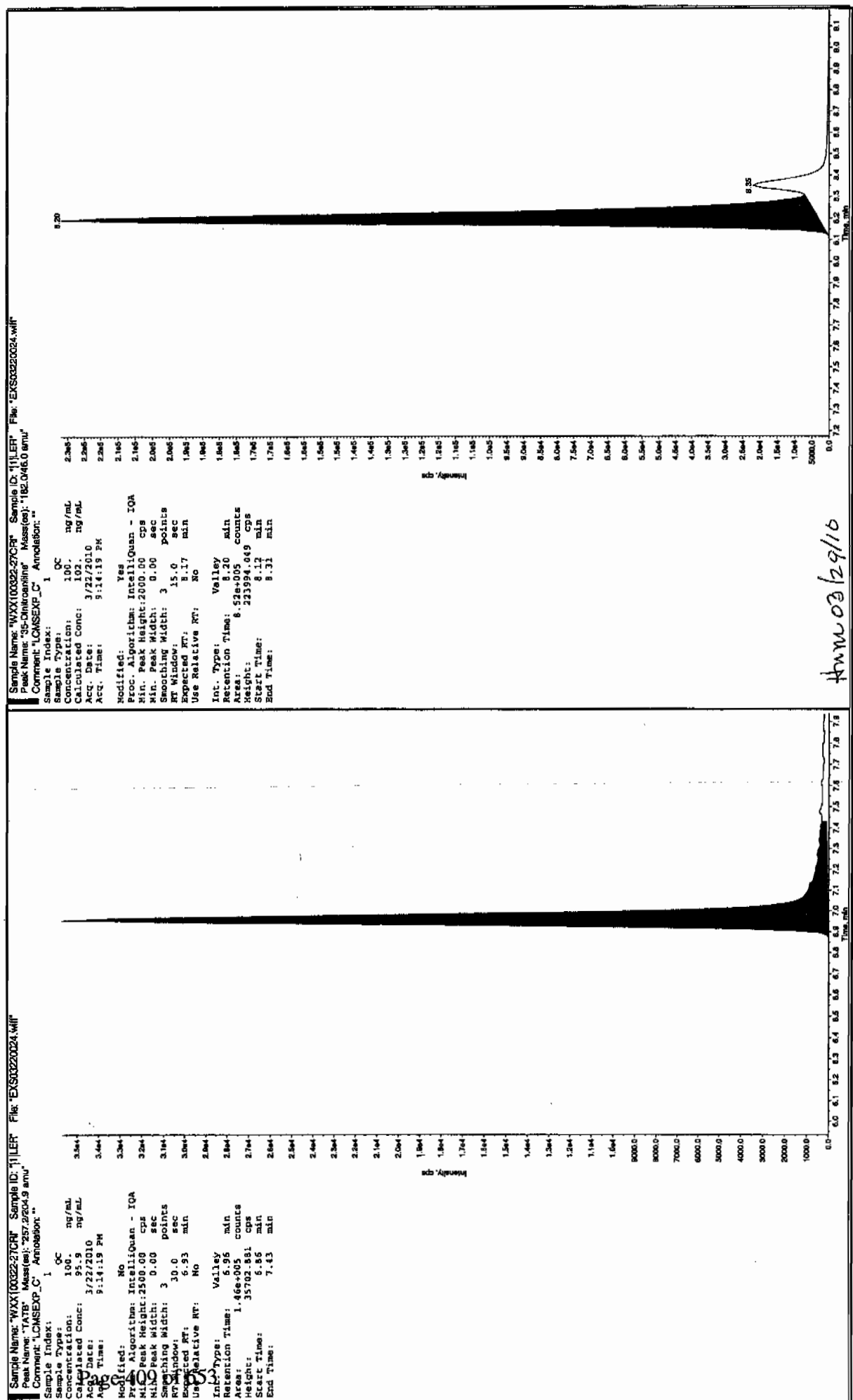
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

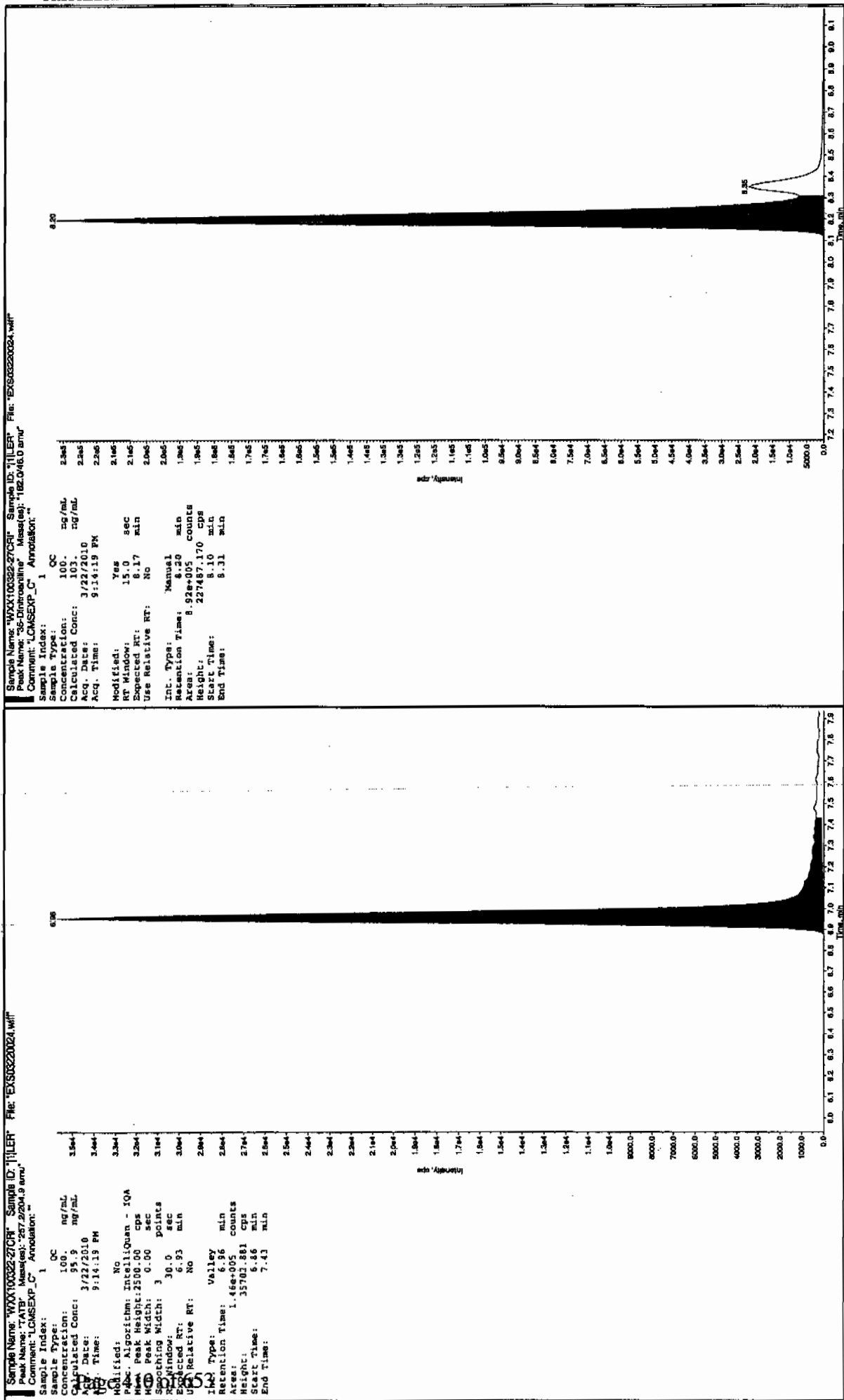
* Value outside of Recovery Limits

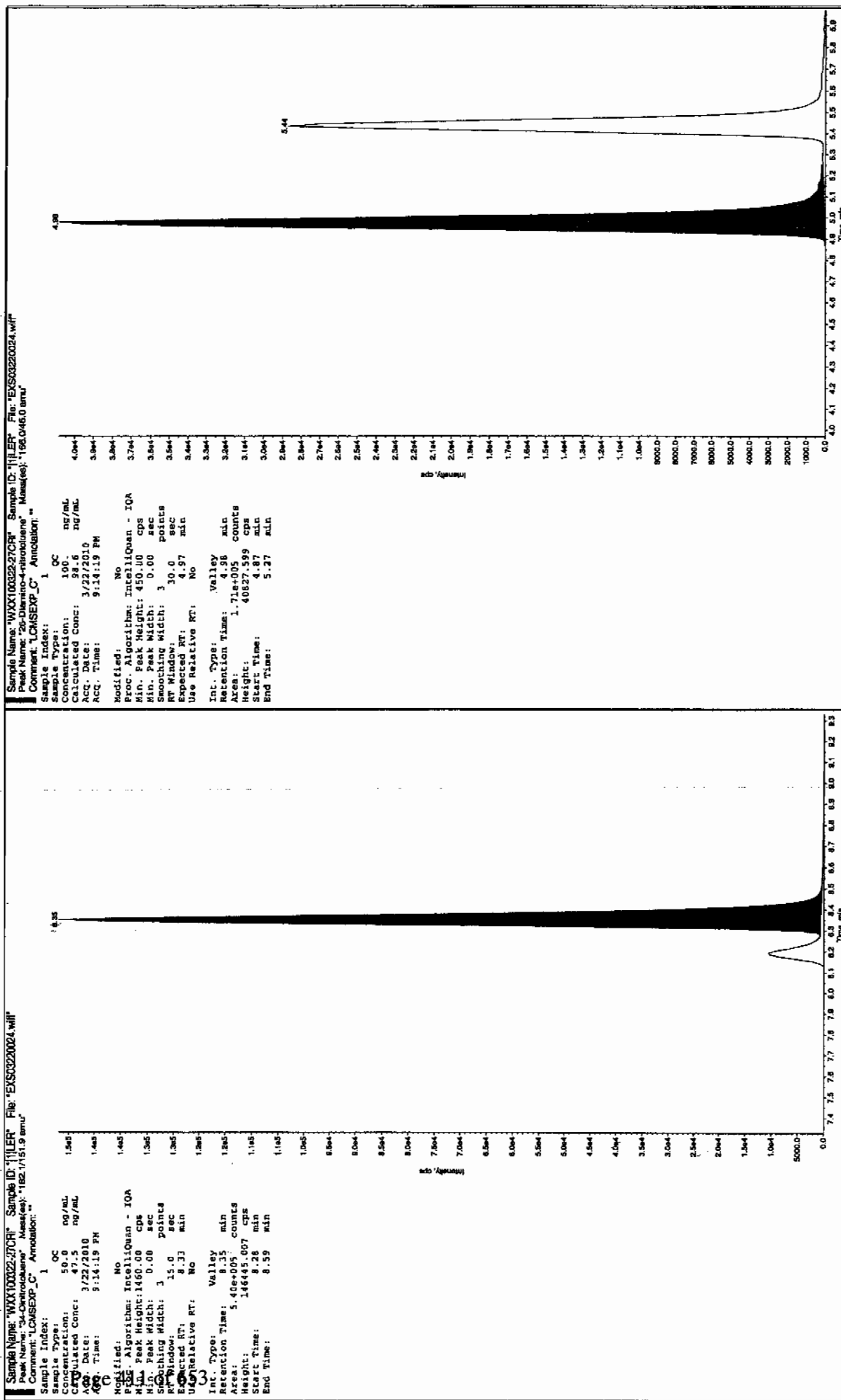
Before Jan 3/27/10



Ann 03/29/10

after Jan 31/10



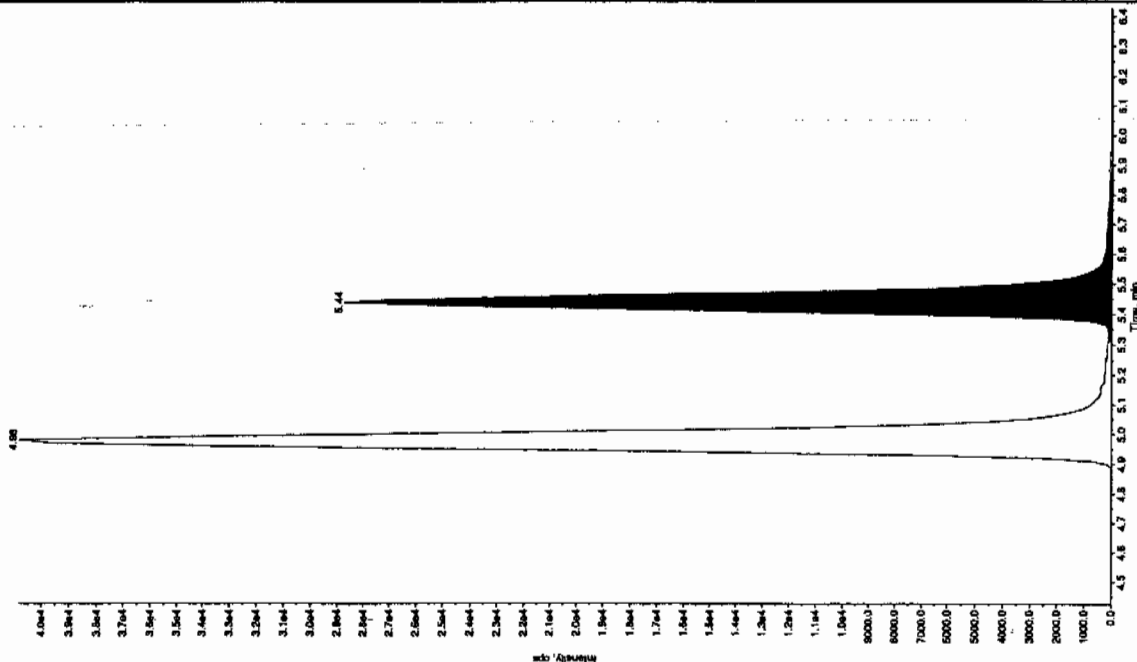


Sample Name: "WXX10022-2701" Sample ID: "111ER" File: "EXS0322024.wif"
 Peak Name: "24-Diamino-6-nicotinane" Mass(es): "166.046.0 amu"
 Comment: "LCMS EXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 110. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 9:14:19 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 Expected RT: 5.43 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 5.44 min
 Area: 1.18e+005 counts
 Height: 28677.340 cps
 Start Time: 5.31 min
 End Time: 5.85 min

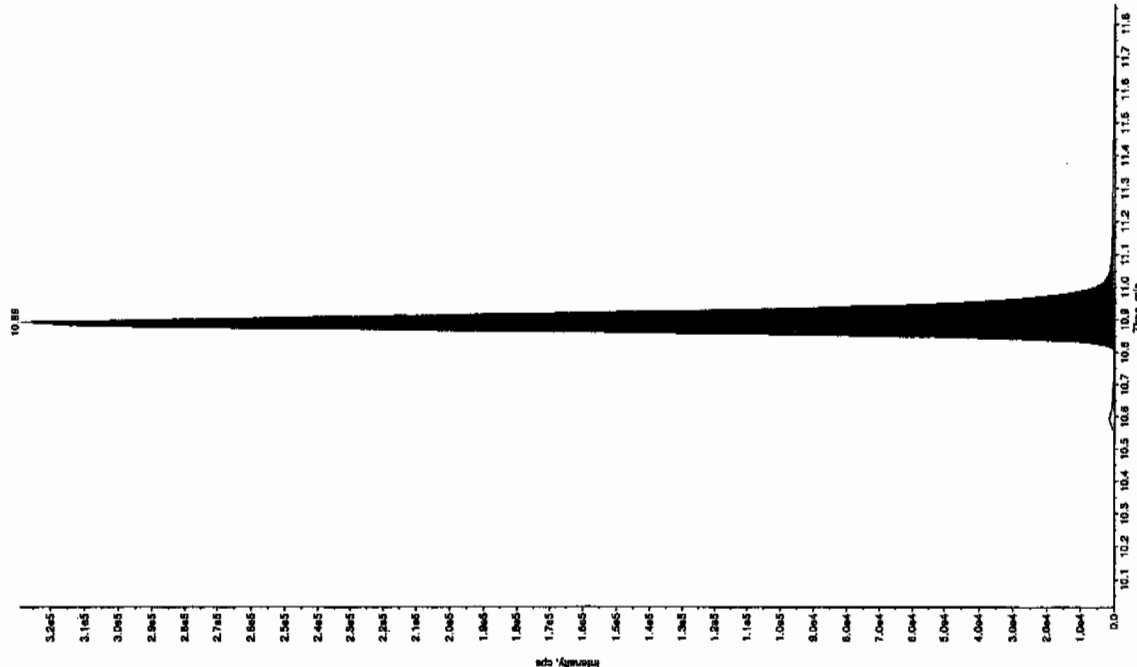


Sample Name: "WXX10022-2701" Sample ID: "111ER" File: "EXS0322024.wif"
 Peak Name: "tris(2-ethyl phosphine)" Mass(es): "386.191.0 amu"
 Comment: "LCMS EXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 106. ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 9:14:19 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.33e+006 counts
 Height: 32873.193 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220035.wiff

Analysis Date: 23-MAR-10 00:07

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

3/23/10
lan

Sample Name: WXX100322-280CV Sample ID: H1LER File: EXS020005.wif

Peak Name: 35-Dinitrobenzyl Measured: 162.046.0 amu

Comment: LCMSEXP_G Annulation:

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 549. ng/mL

Acq. Date: 3/23/2010

Acq. Time: 12:07:11 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.17 min

Use Relative RT: No

Int. Type: Valley

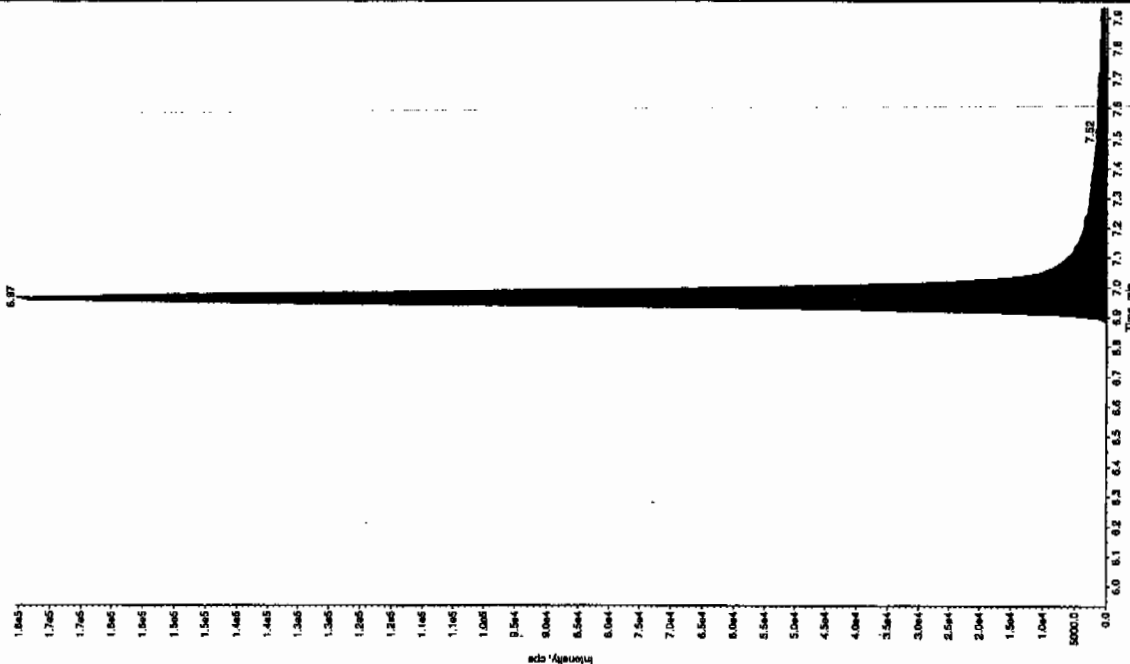
Retention Time: 8.20 min

Area: 4.23e+008 counts

Height: 1060281.795 cps

Start Time: 8.10 min

End Time: 8.31 min



4MW03/2/10

Sample Name: WXX100322-280CV Sample ID: H1LER File: EXS020005.wif

Peak Name: 7ATB Measured: 257.224.9 amu

Comment: LCMSEXP_G Annulation:

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 550. ng/mL

Acq. Date: 3/23/2010

Acq. Time: 12:07:11 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.93 min

Use Relative RT: No

Int. Type: Valley

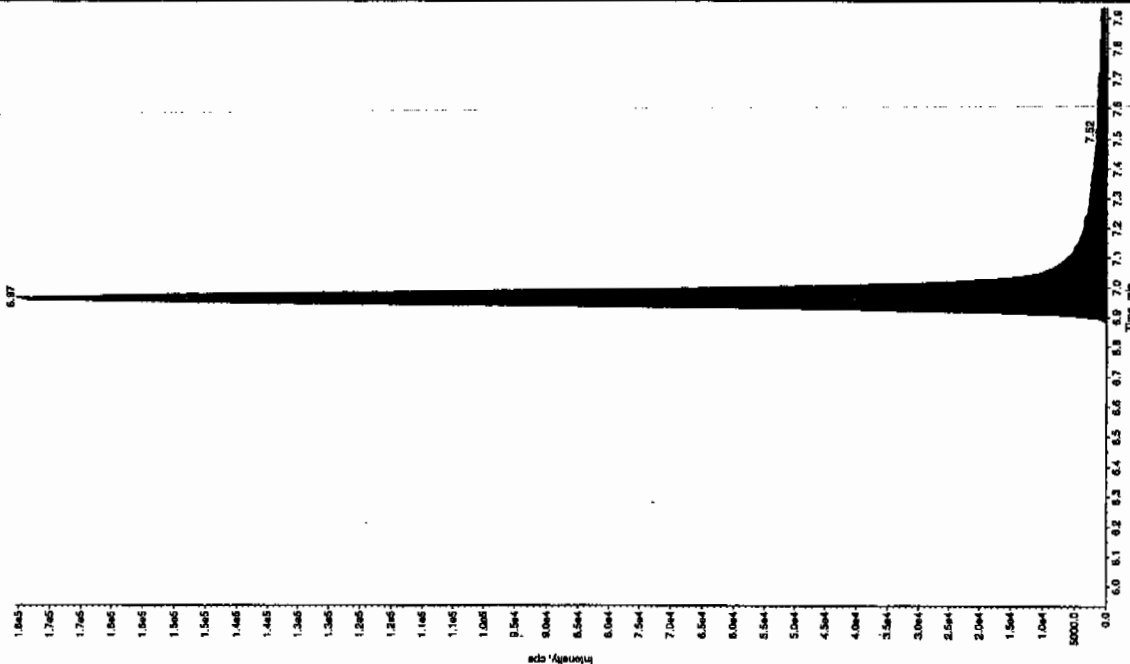
Retention Time: 6.97 min

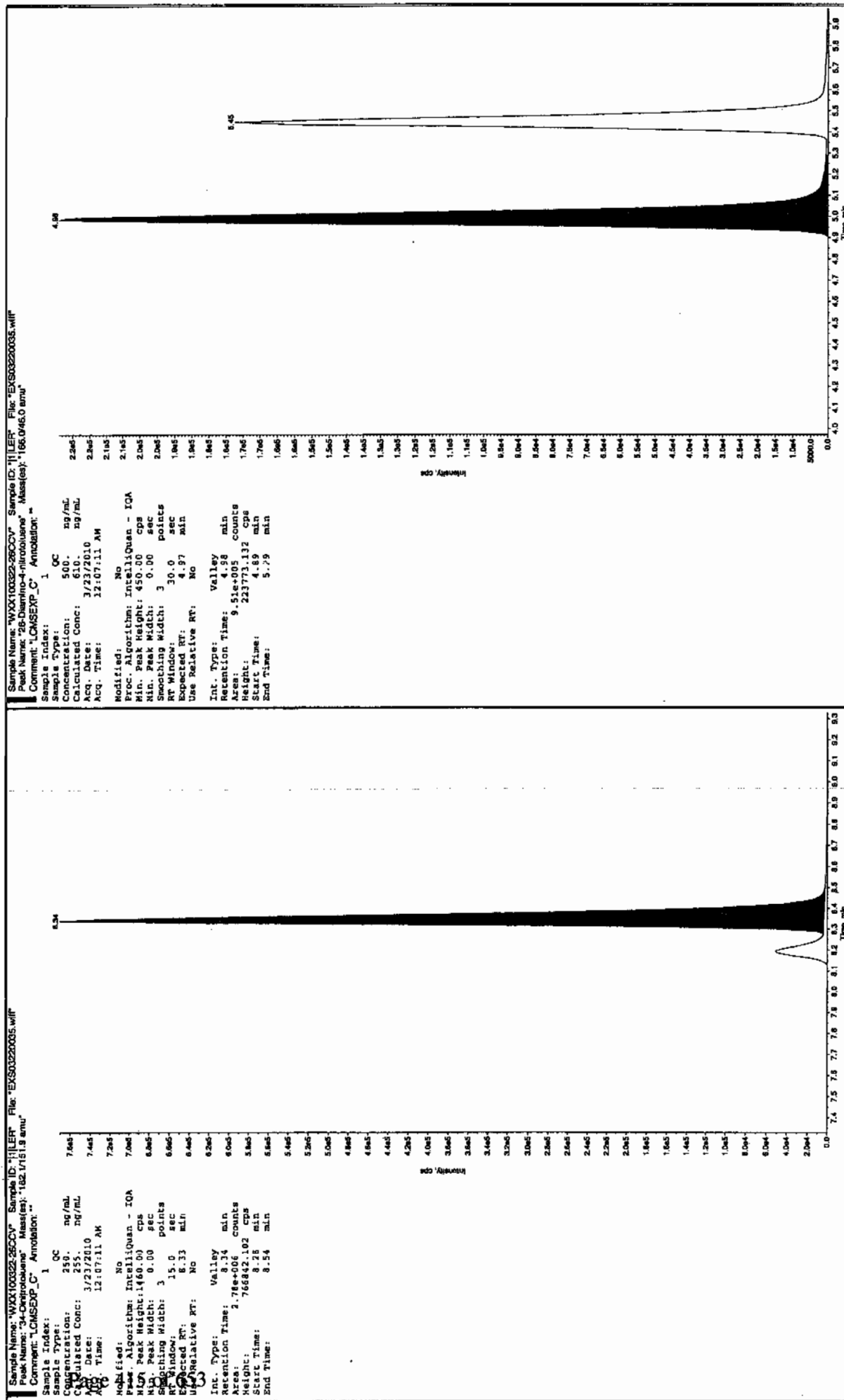
Area: 8.10e+005 counts

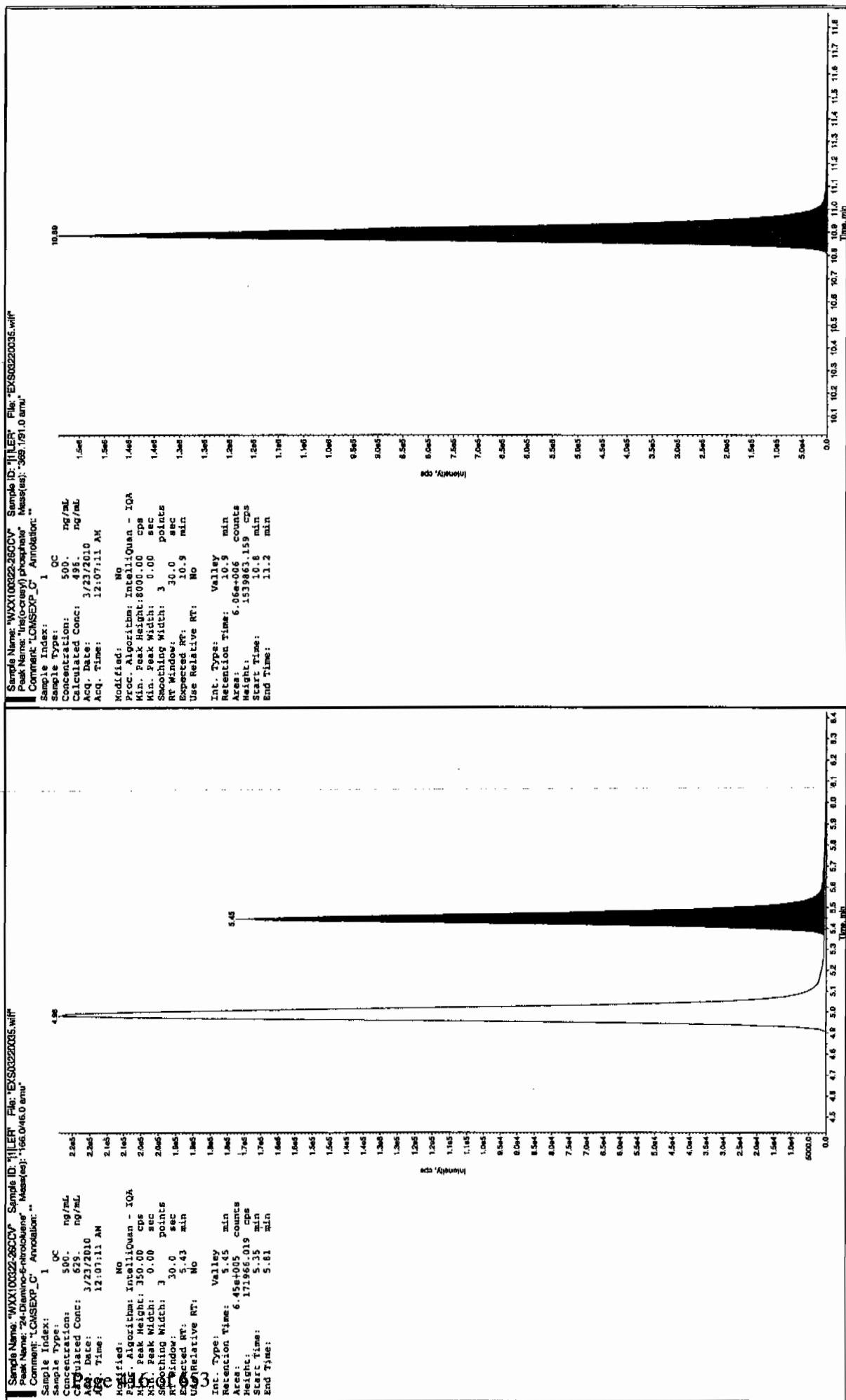
Height: 175115.516 cps

Start Time: 6.86 min

End Time: 7.11 min







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220037.wiff

Analysis Date: 23-MAR-10 00:38

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

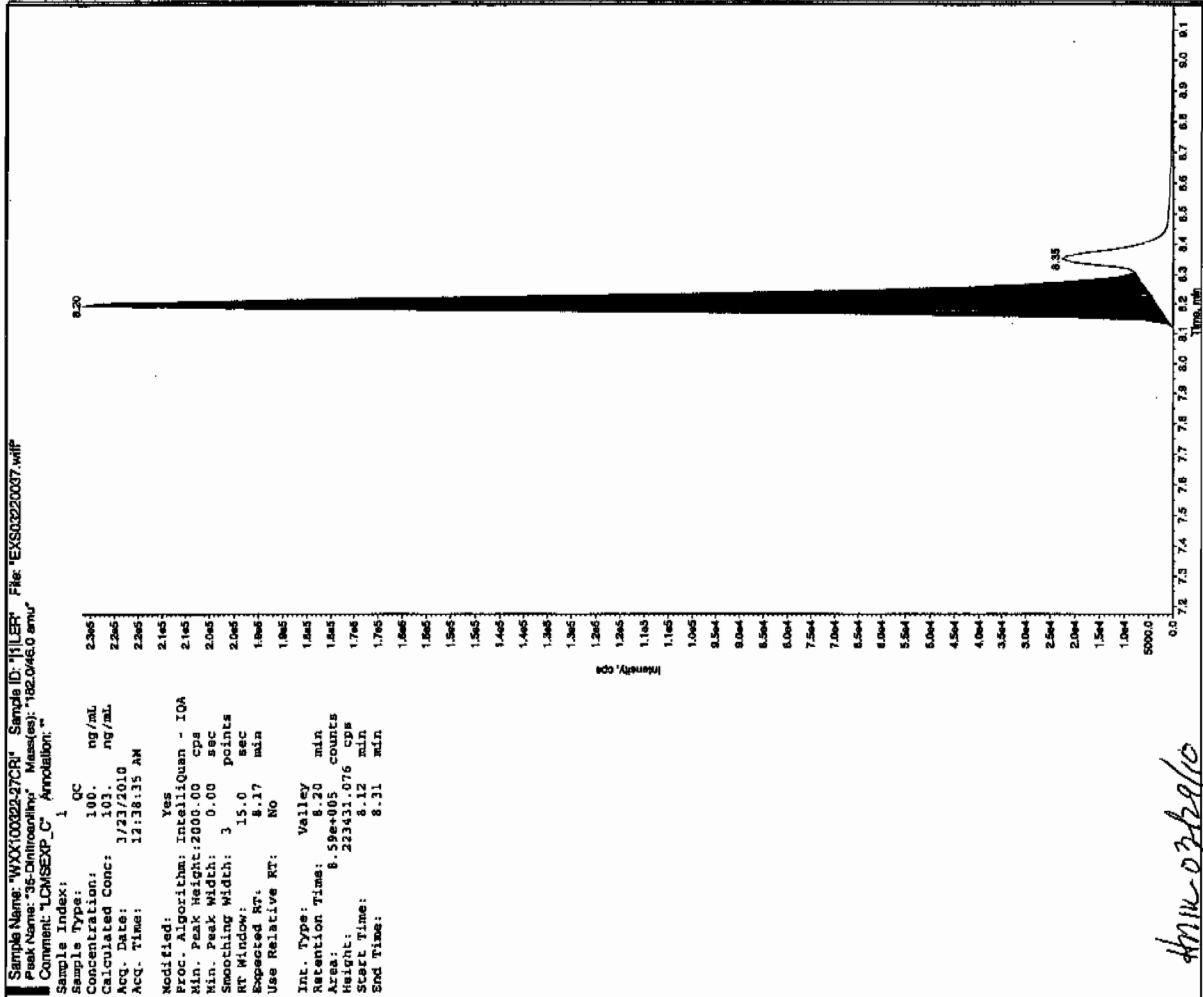
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

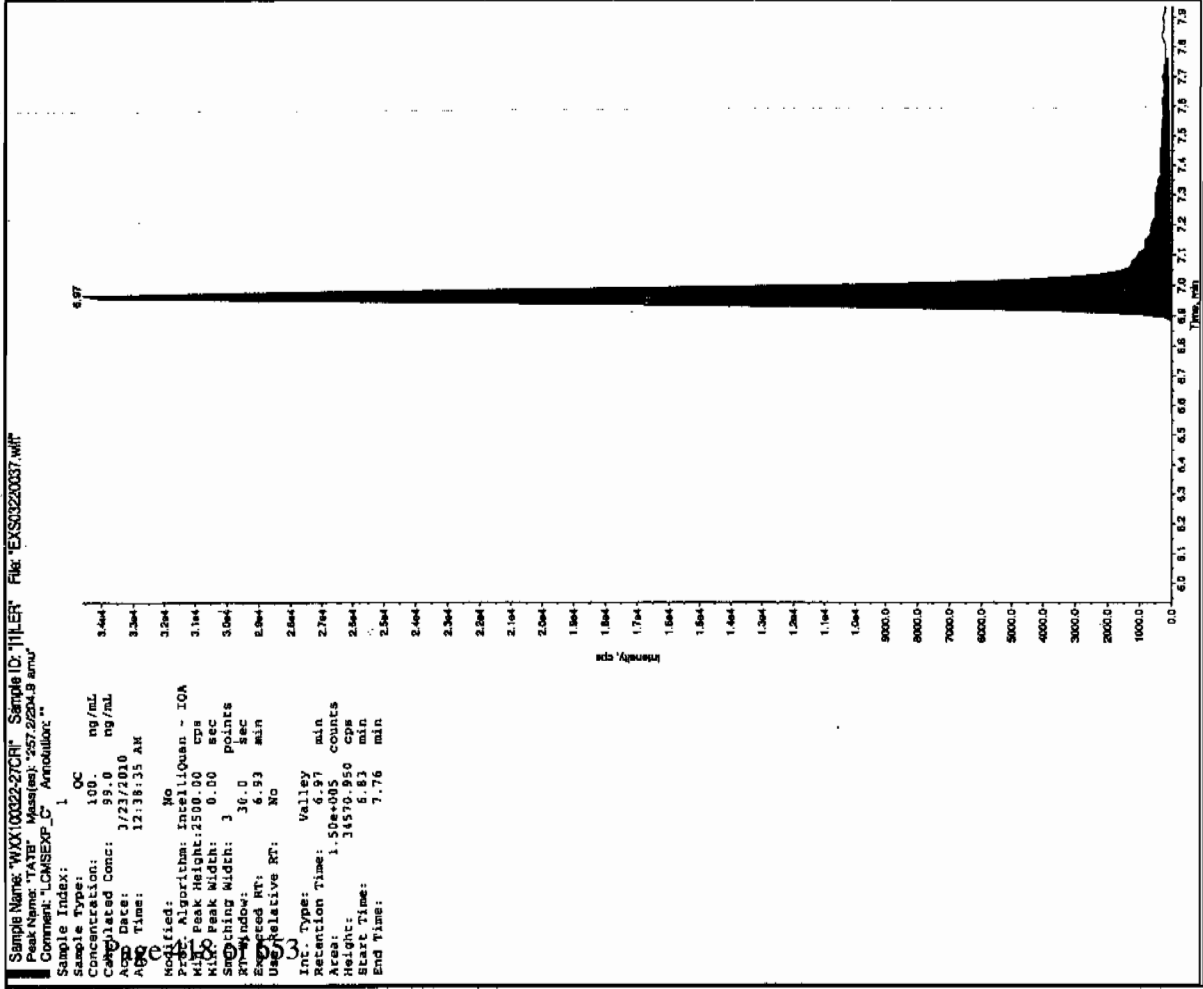
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Run 3b7H10

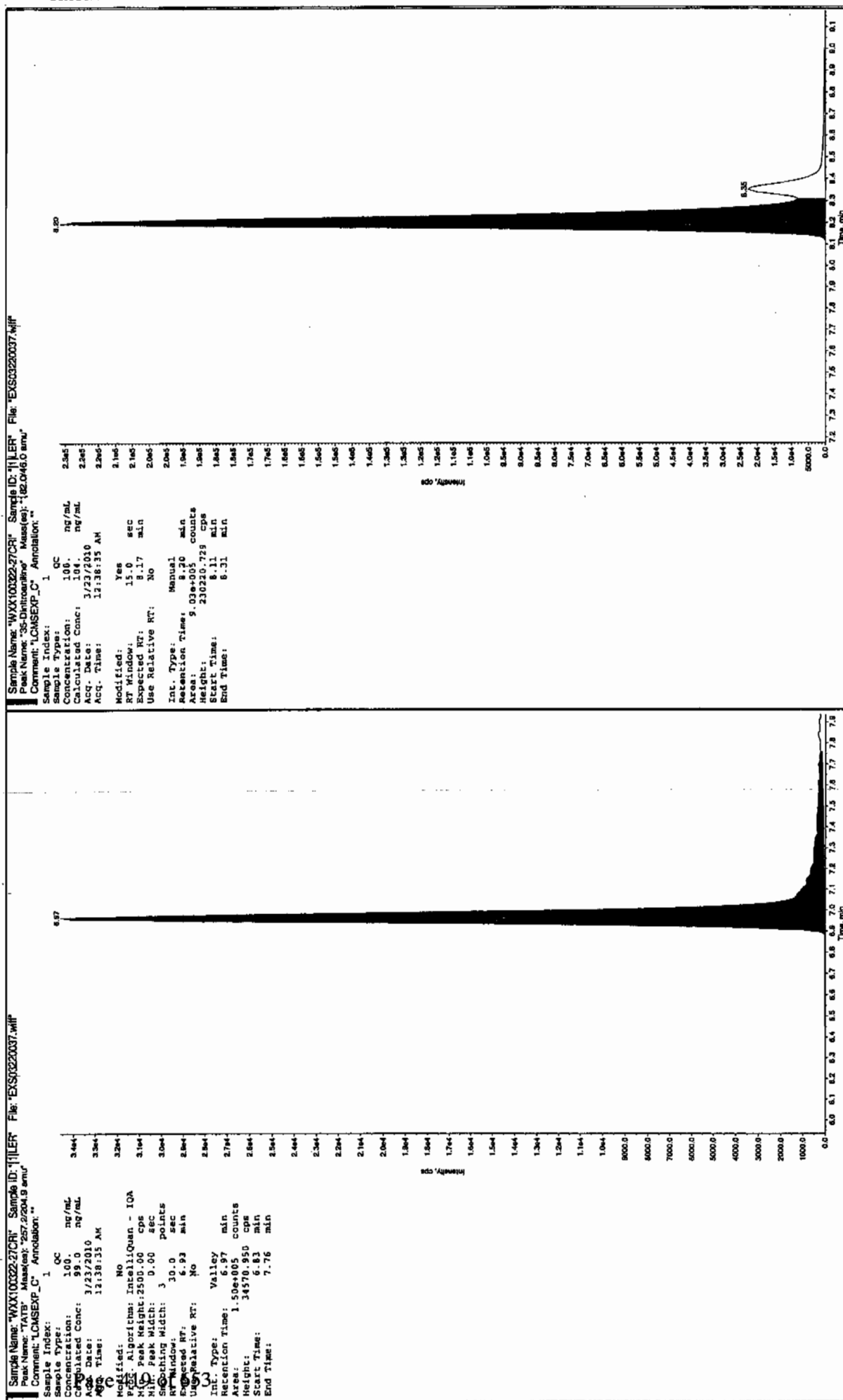


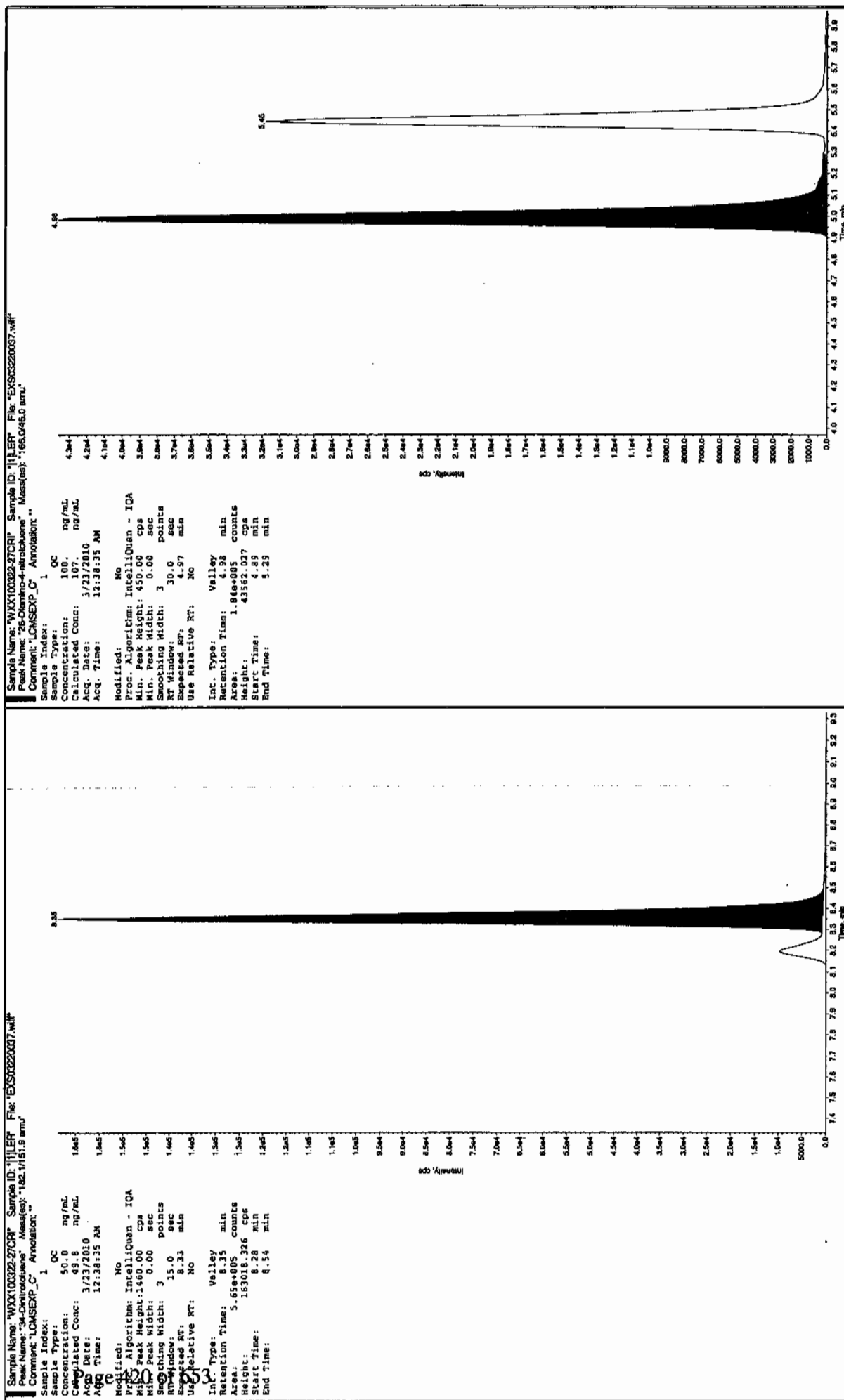
444-024610

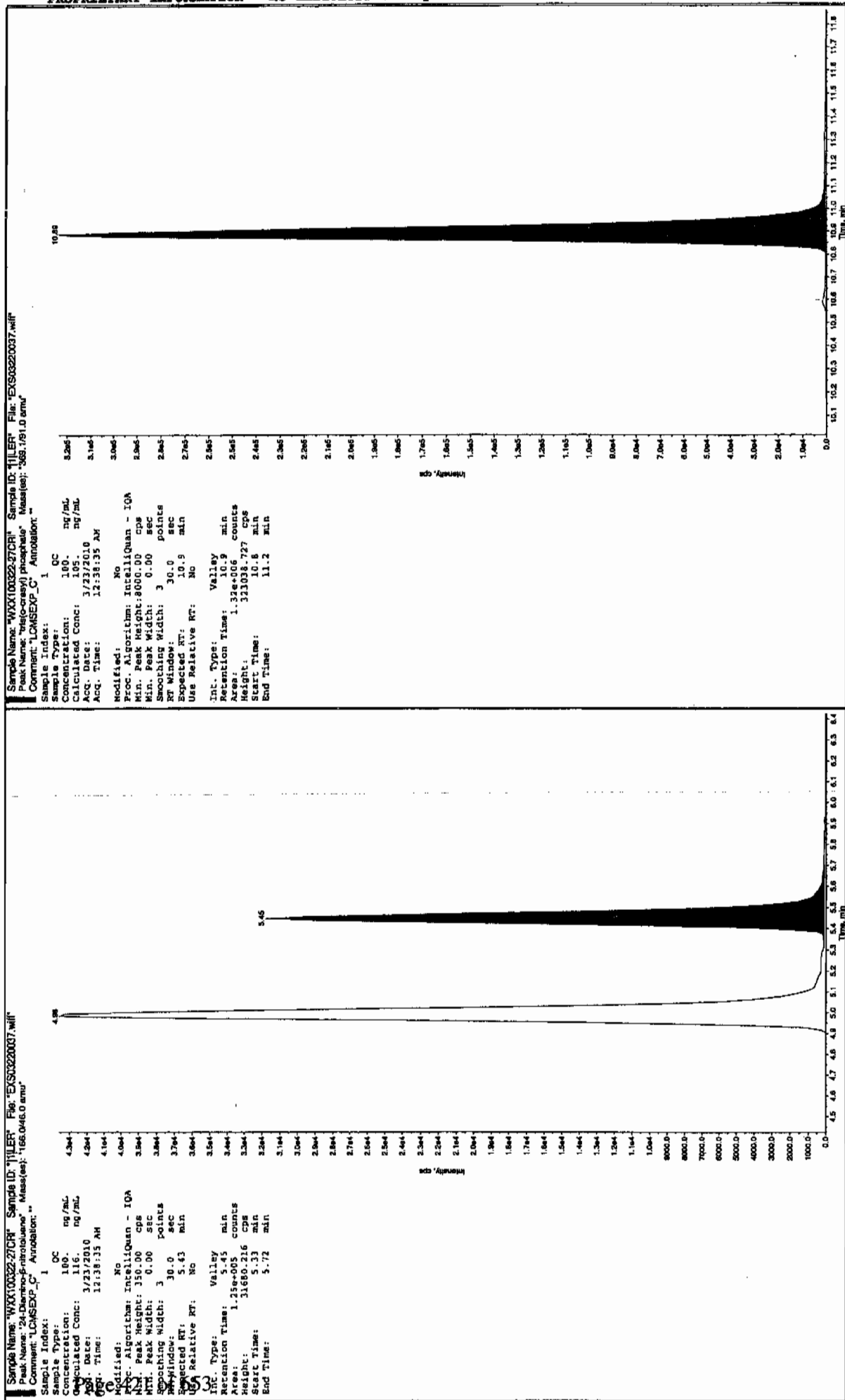


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMMS#4

after Jan 3/27/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220048.wiff

Analysis Date: 23-MAR-10 03:31

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

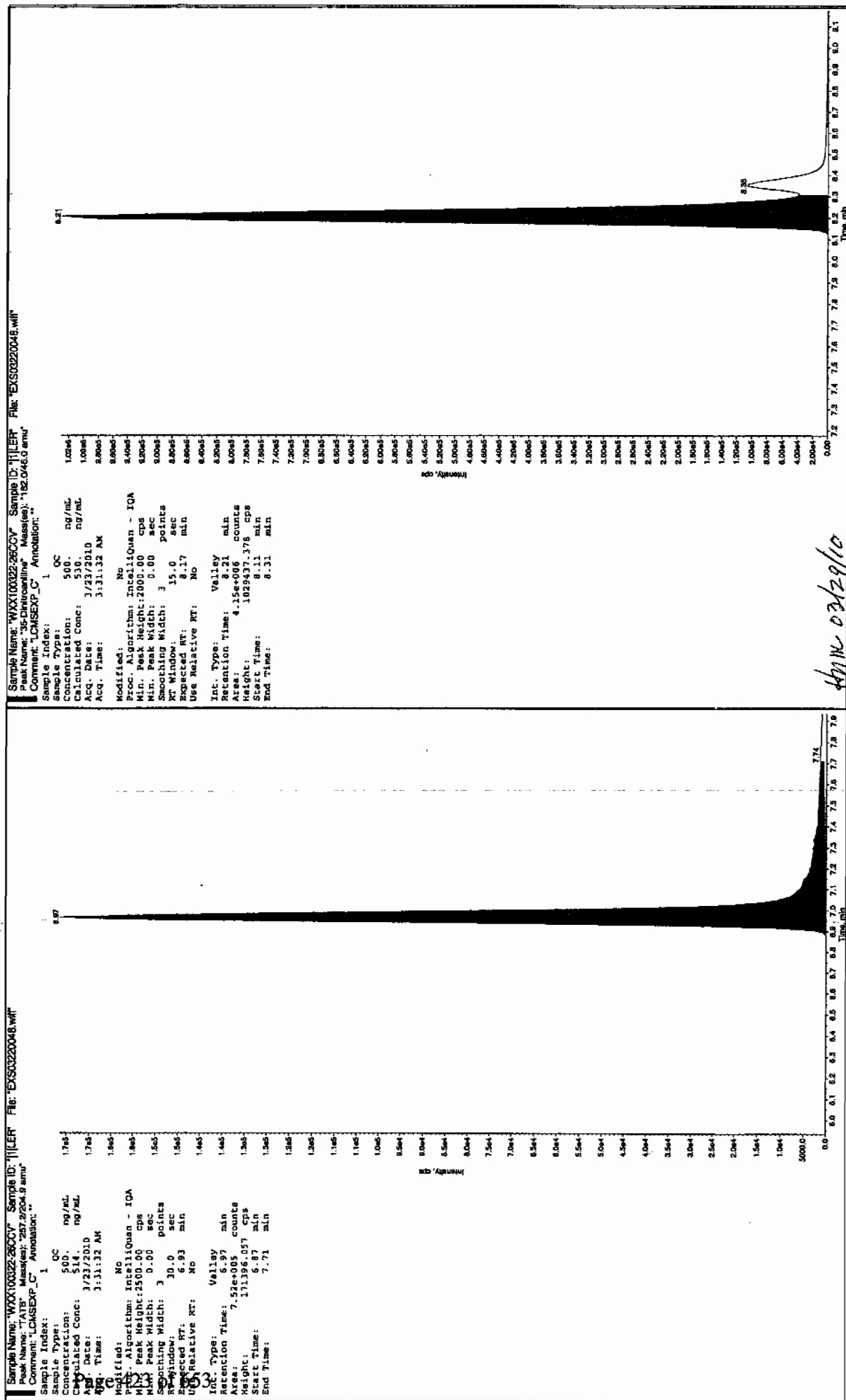
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

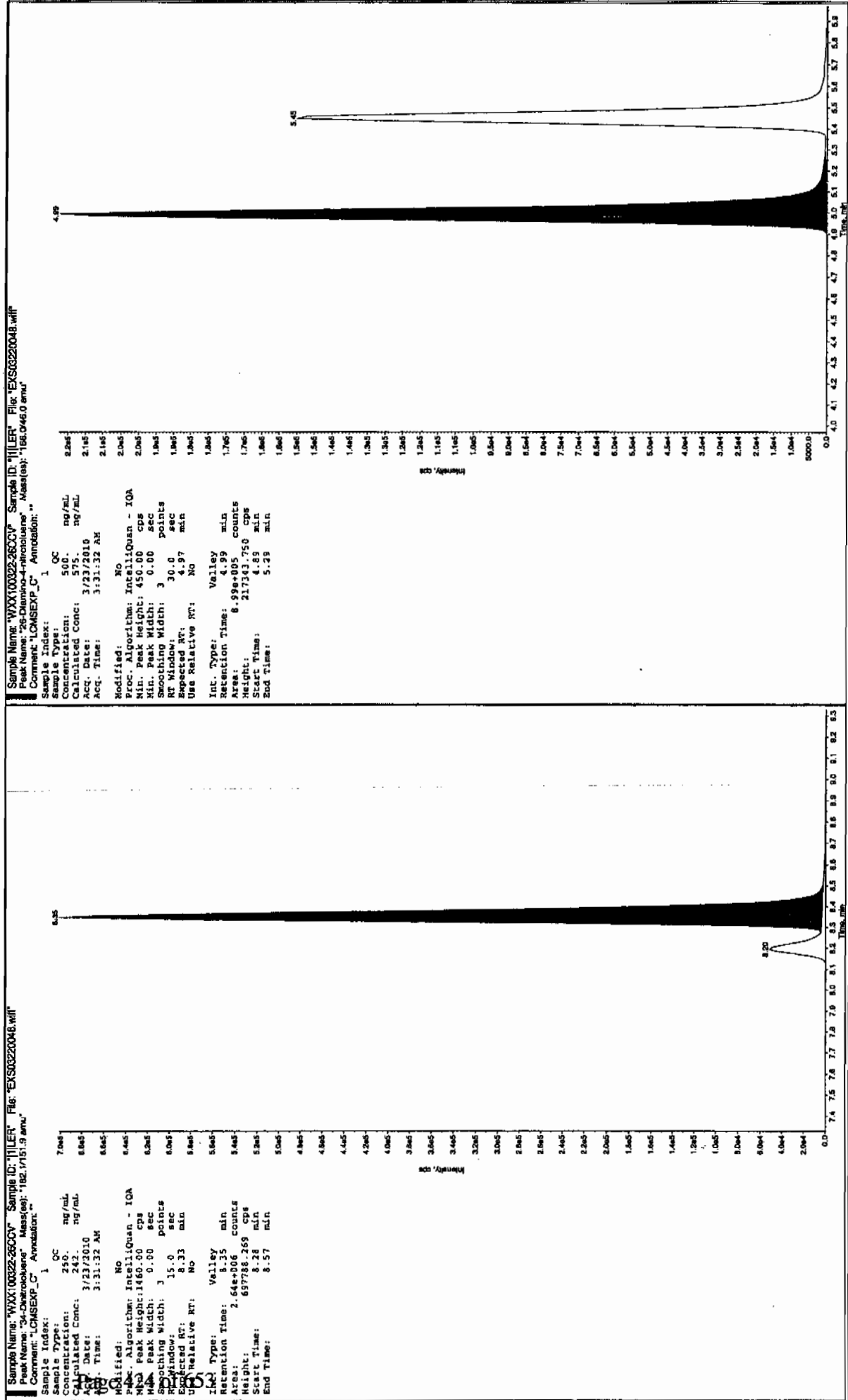
Column used to flag Recovery outside of Limits

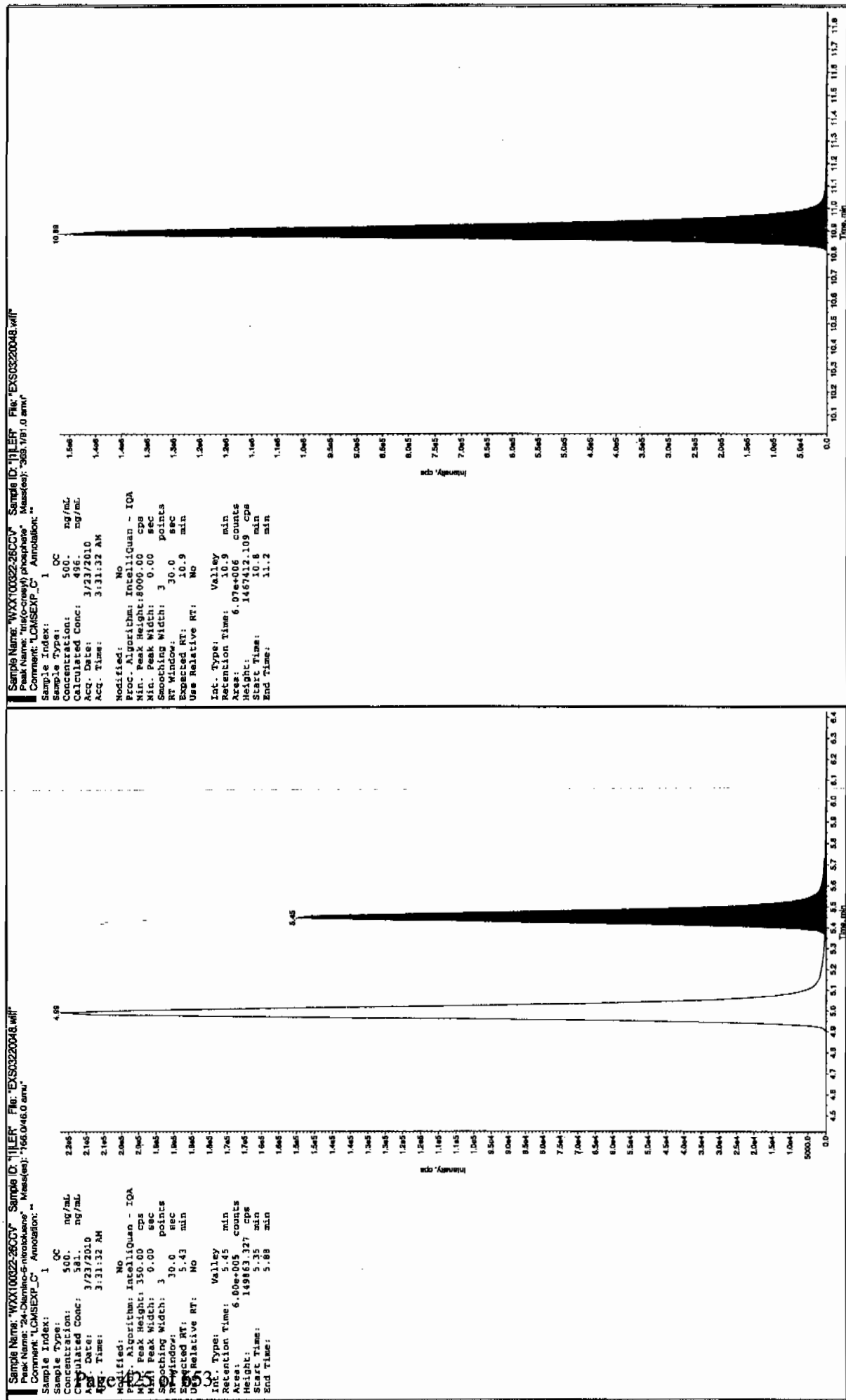
* Value outside of Recovery Limits

San 3/27/10



San 03/29/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220050.wiff

Analysis Date: 23-MAR-10 04:02

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

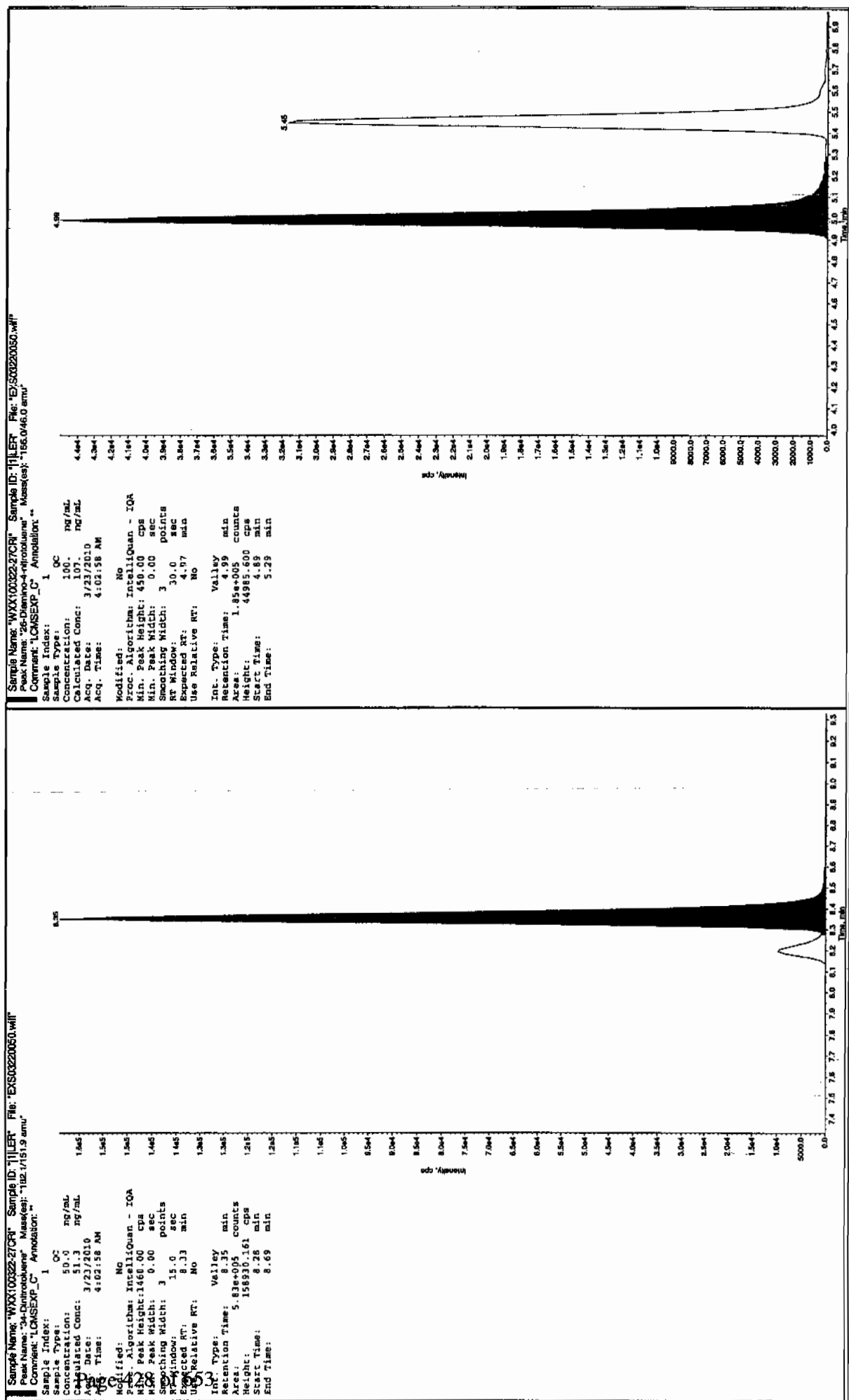
2,4-Diamino-6-nitrotoluene 50-150%

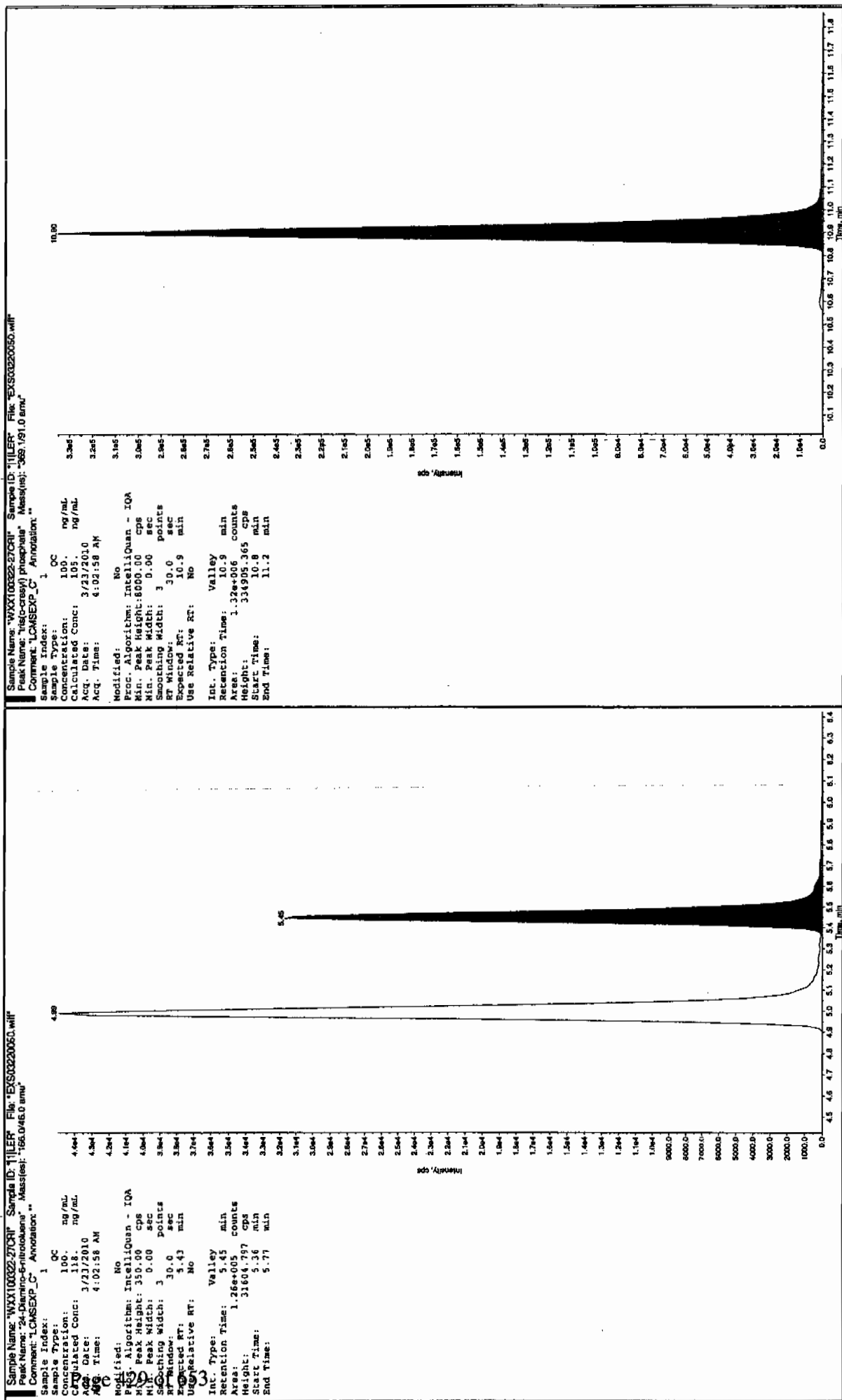
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220058.wiff

Analysis Date: 23-MAR-10 06:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

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

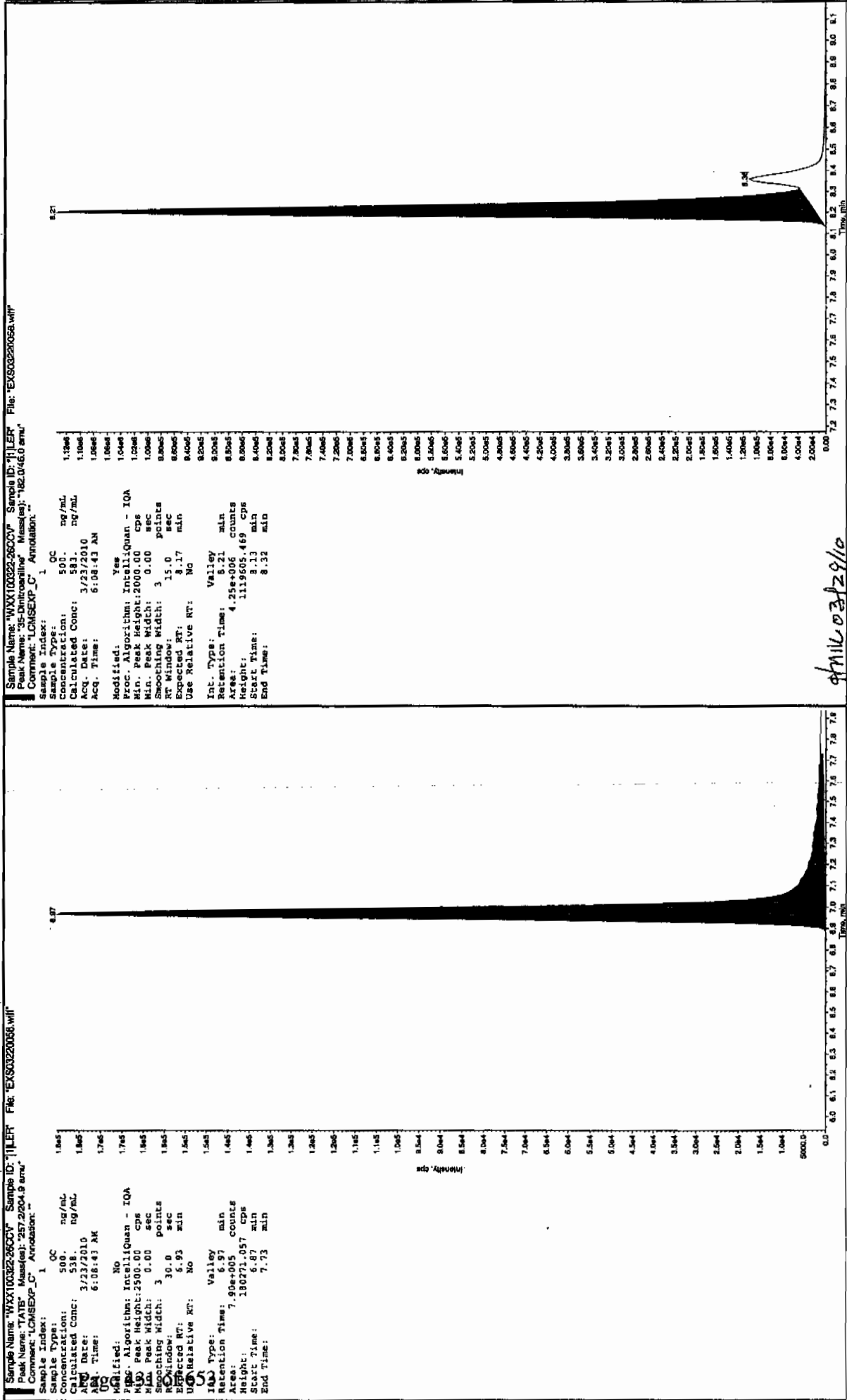
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

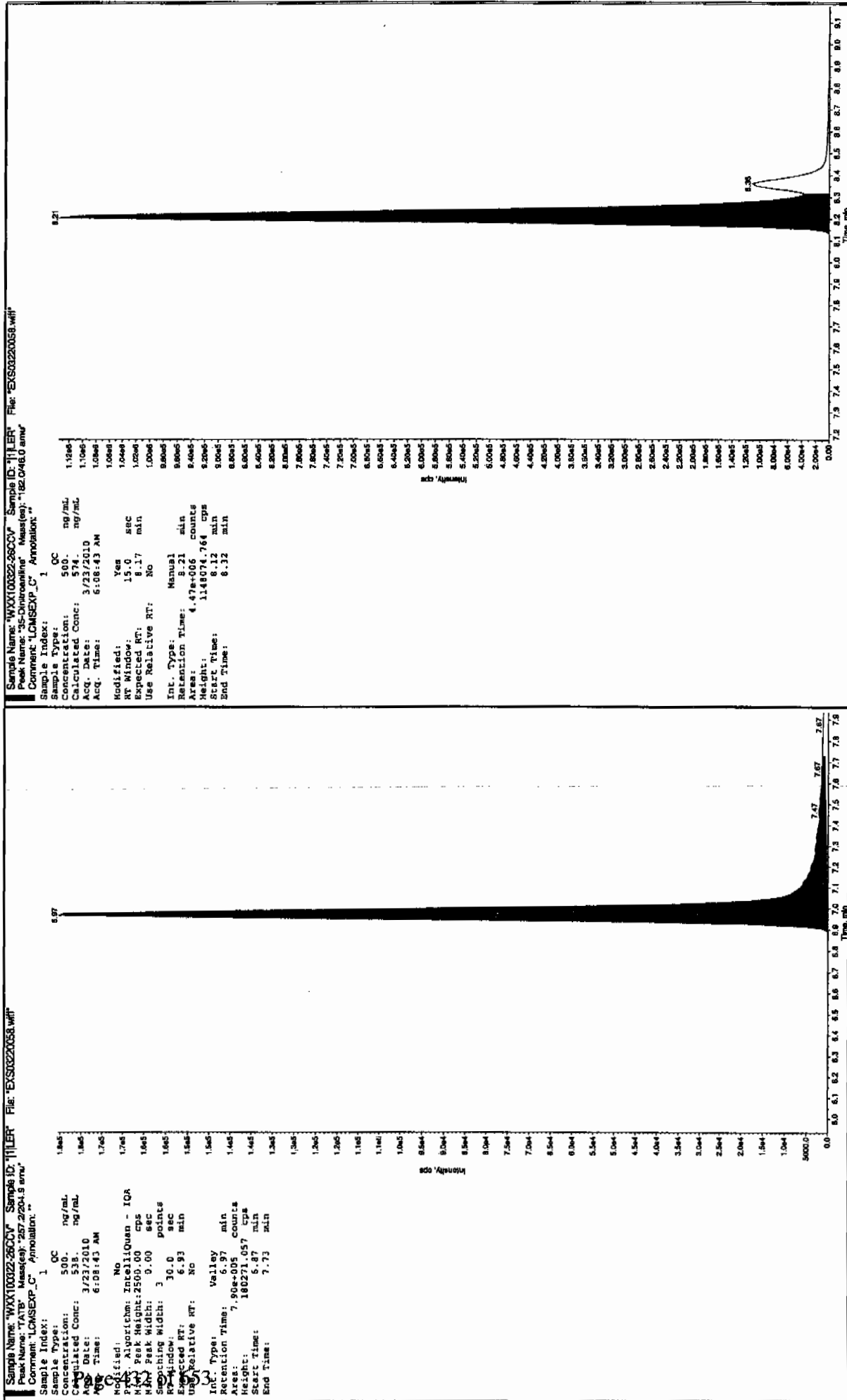
* Value outside of Recovery Limits

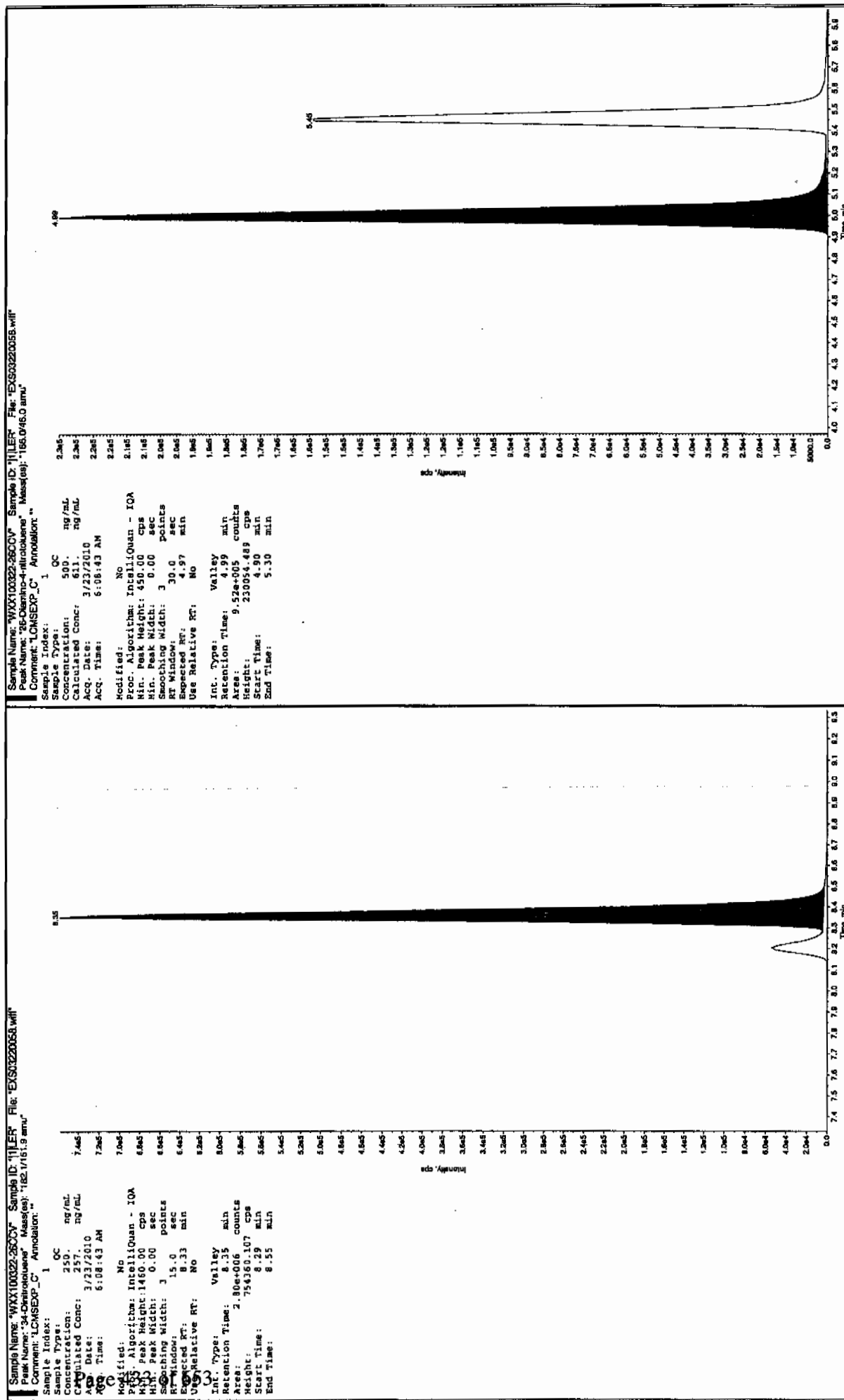
Before Jan 3/27/10

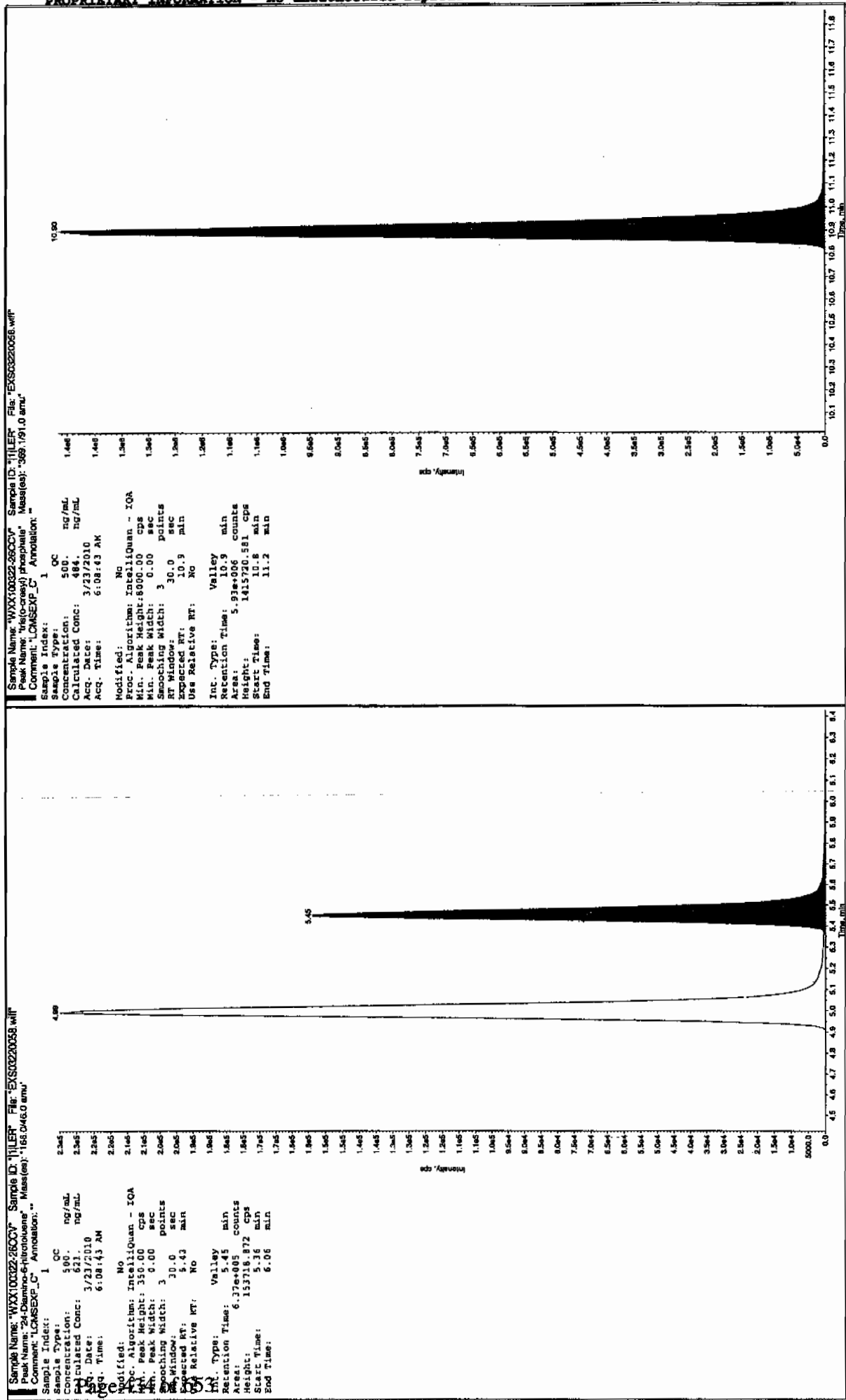


*GEL SOP GL-0A-E-056, Method 8321A-Modified LCMSMS#4

after Jan 3/25/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220060.wiff

Analysis Date: 23-MAR-10 06:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	50	51.6	103	
3,5-Dinitroaniline	100	104	104	
TATB	100	98.4	98	
tris(o-cresyl) phosphate	100	105	105	
2,4-Diamino-6-nitrotoluene	100	112	112	
2,6-Diamino-4-nitrotoluene	100	98.9	99	

Recovery Limits:

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

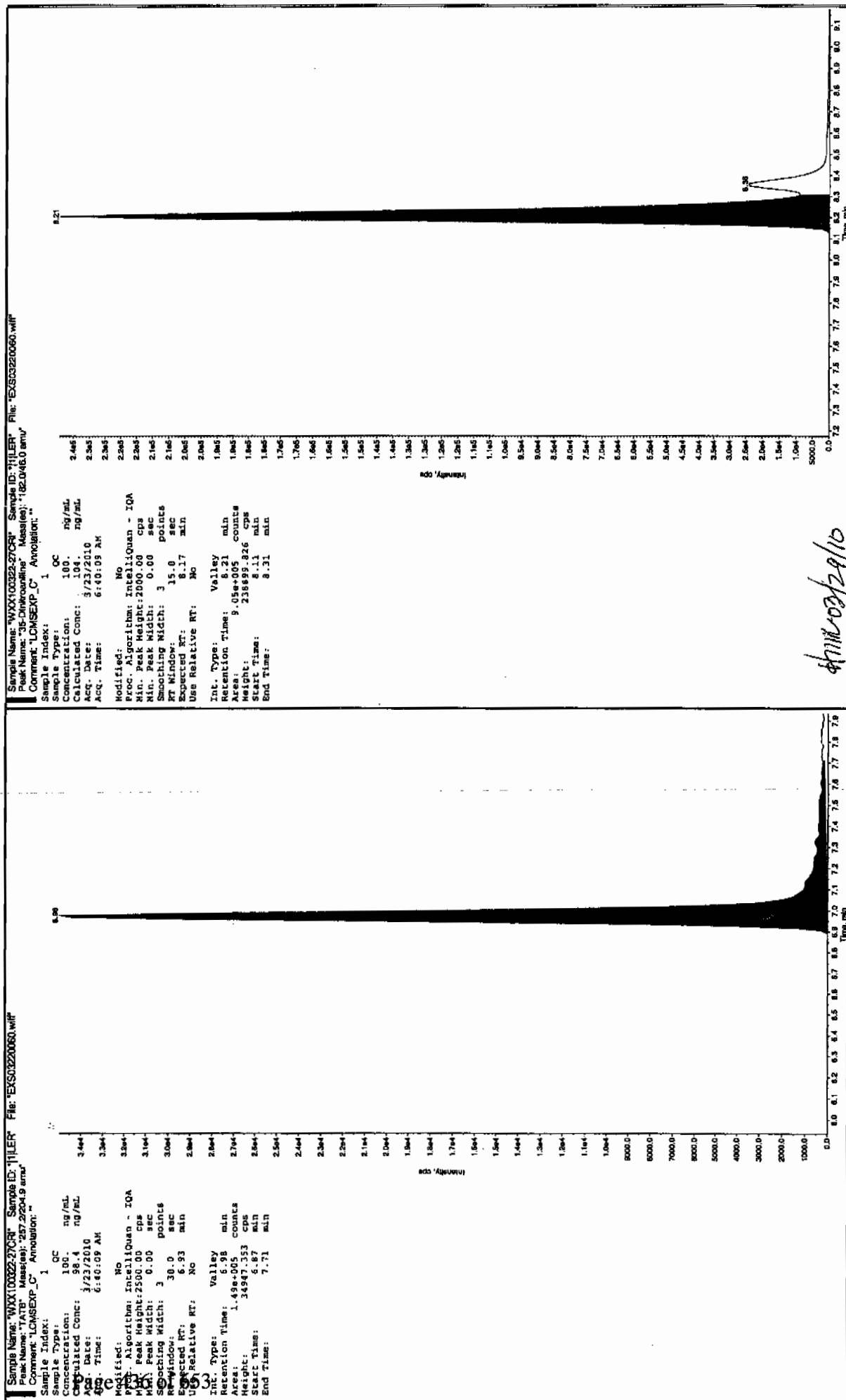
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

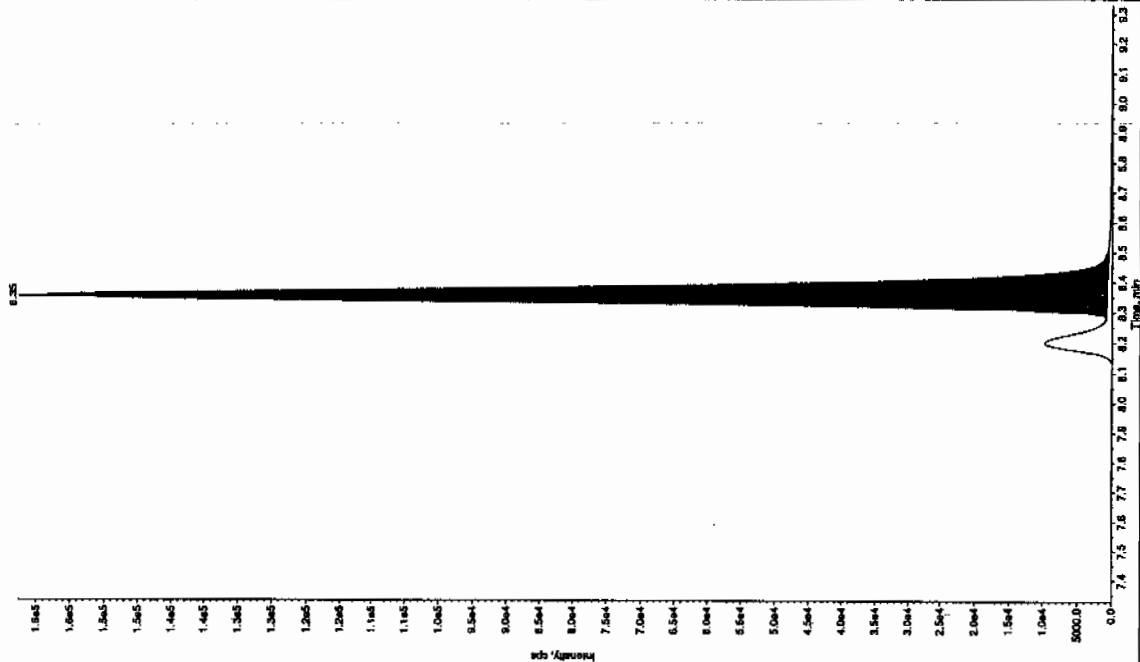
LCA 3/27/10



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

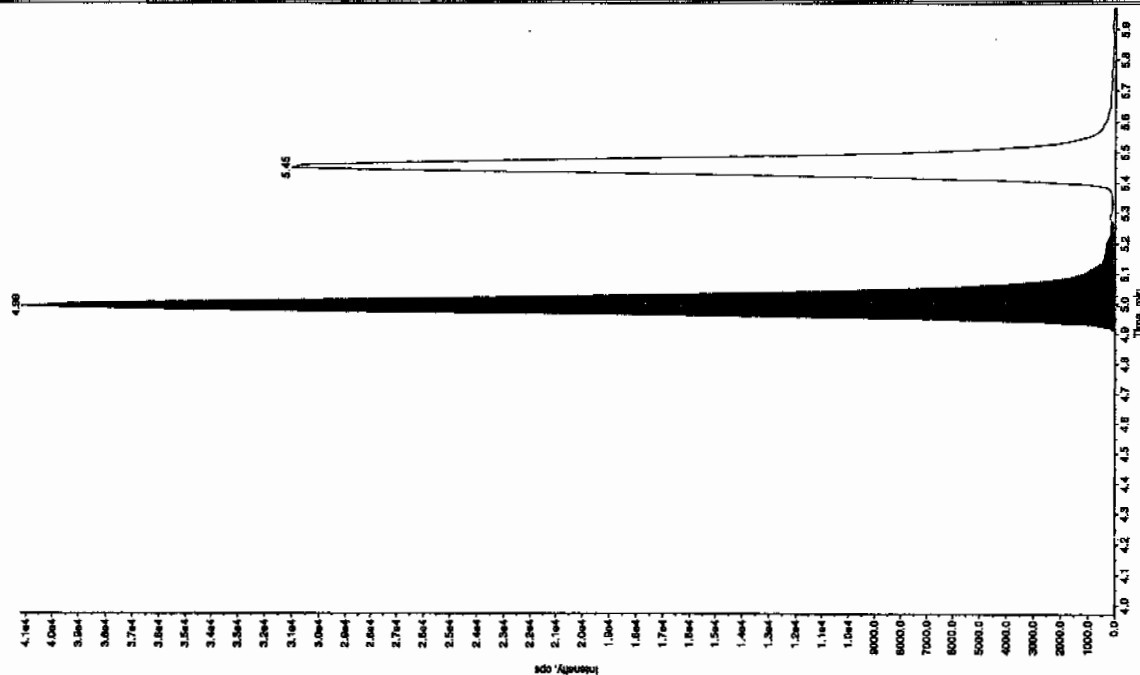
Sample Name: "WXX100322-27CR" Sample ID: "JULER" File: "EXS0220080.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

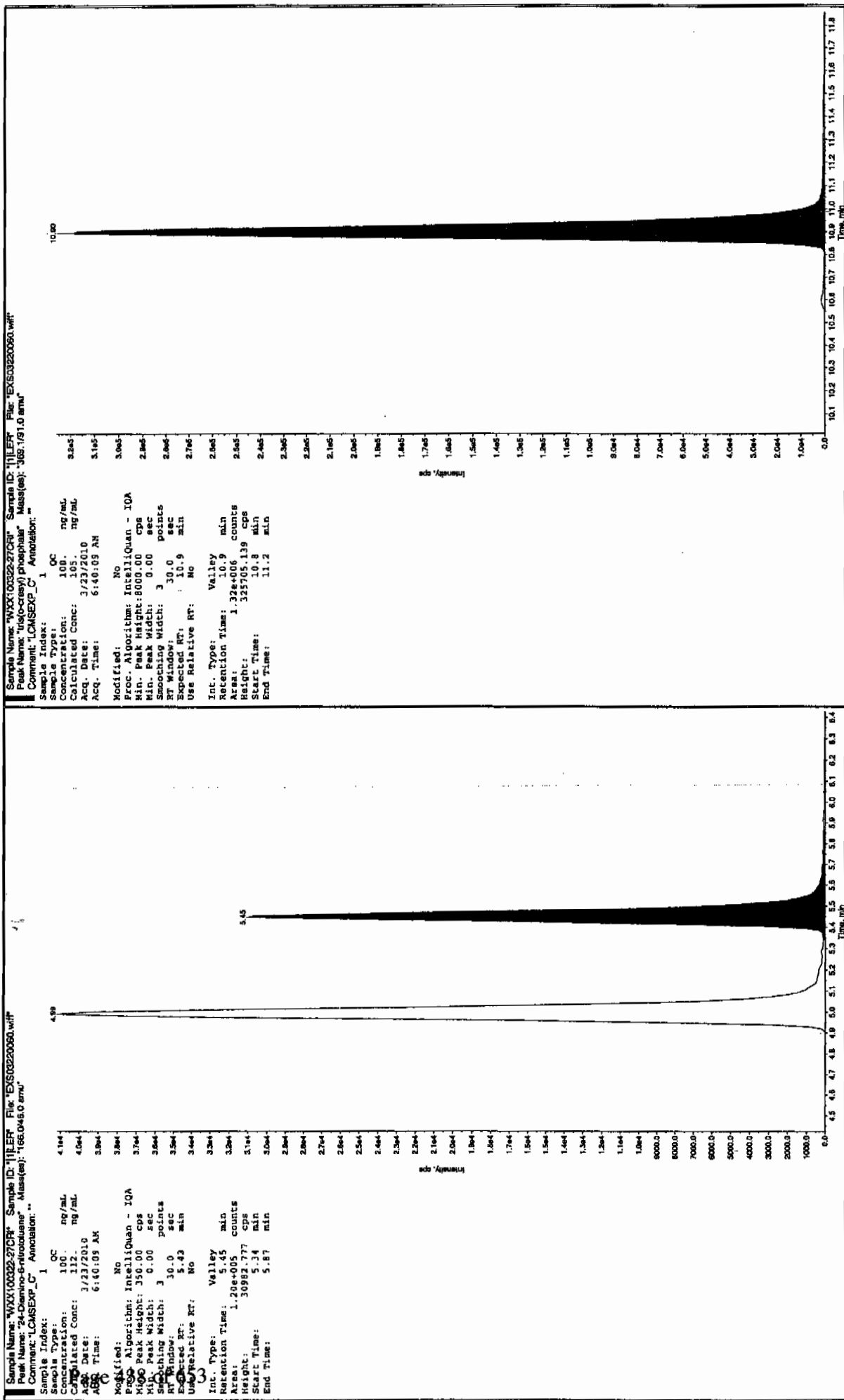
Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 51.6 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:40:09 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 5.85e+005 counts
 Height: 182014.603 cps
 Start Time: 8.26 min
 End Time: 8.64 min



Sample Name: "WXX100322-27CR" Sample ID: "JULER" File: "EXS0220080.wif"
 Peak Name: "25-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Calculated Conc: 99.9 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:40:09 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 850.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.99 min
 Area: 1.71e+005 counts
 Height: 41159.115 cps
 Start Time: 4.90 min
 End Time: 5.27 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220071.wiff

Analysis Date: 23-MAR-10 09:33

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	598	120	
2,6-Diamino-4-nitrotoluene	500	639	128	
3,4-Dinitrotoluene	250	255	102	
3,5-Dinitroaniline	500	559	112	
TATB	500	543	109	
tris(o-cresyl) phosphate	500	507	101	

Recovery Limits:

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

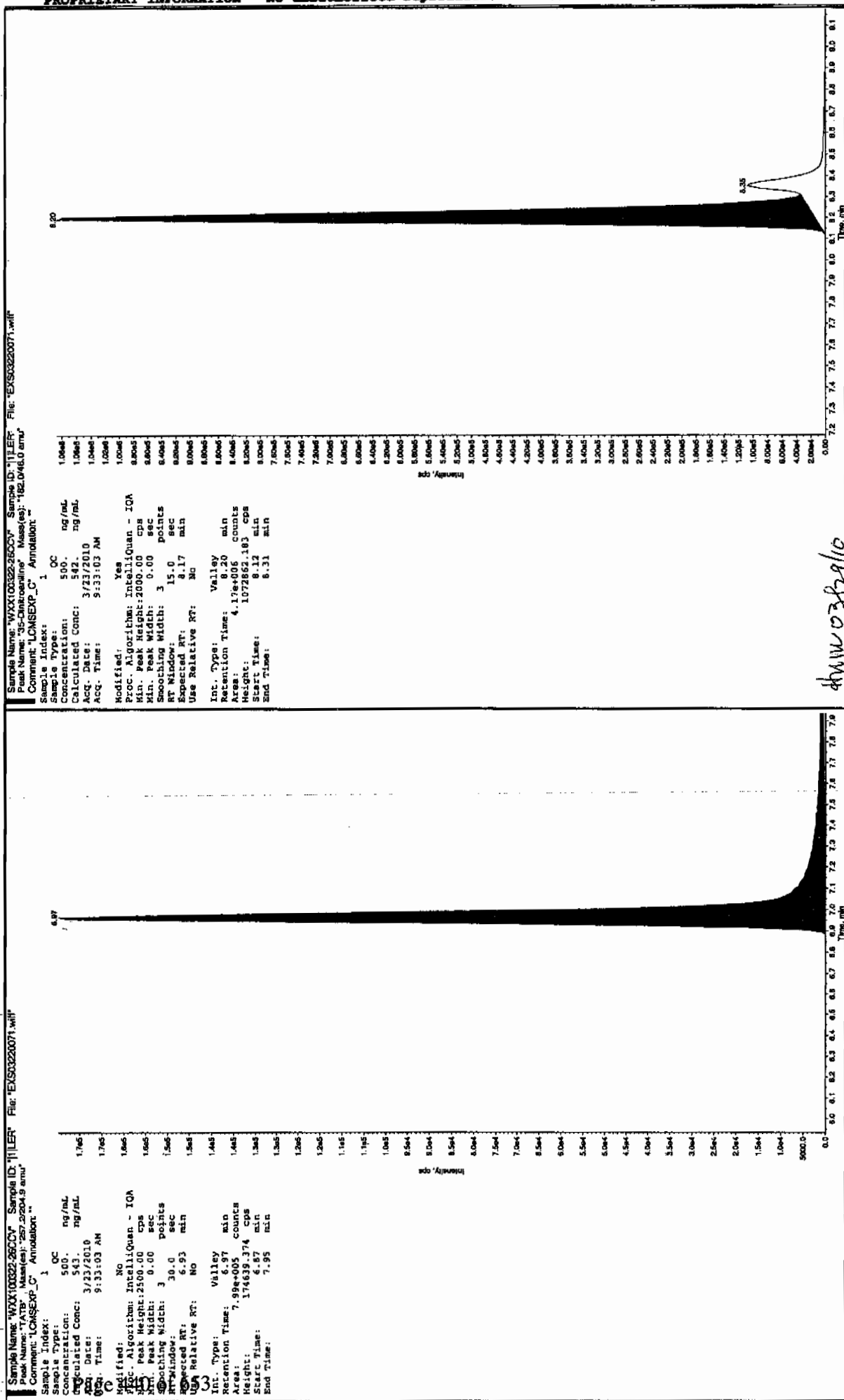
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

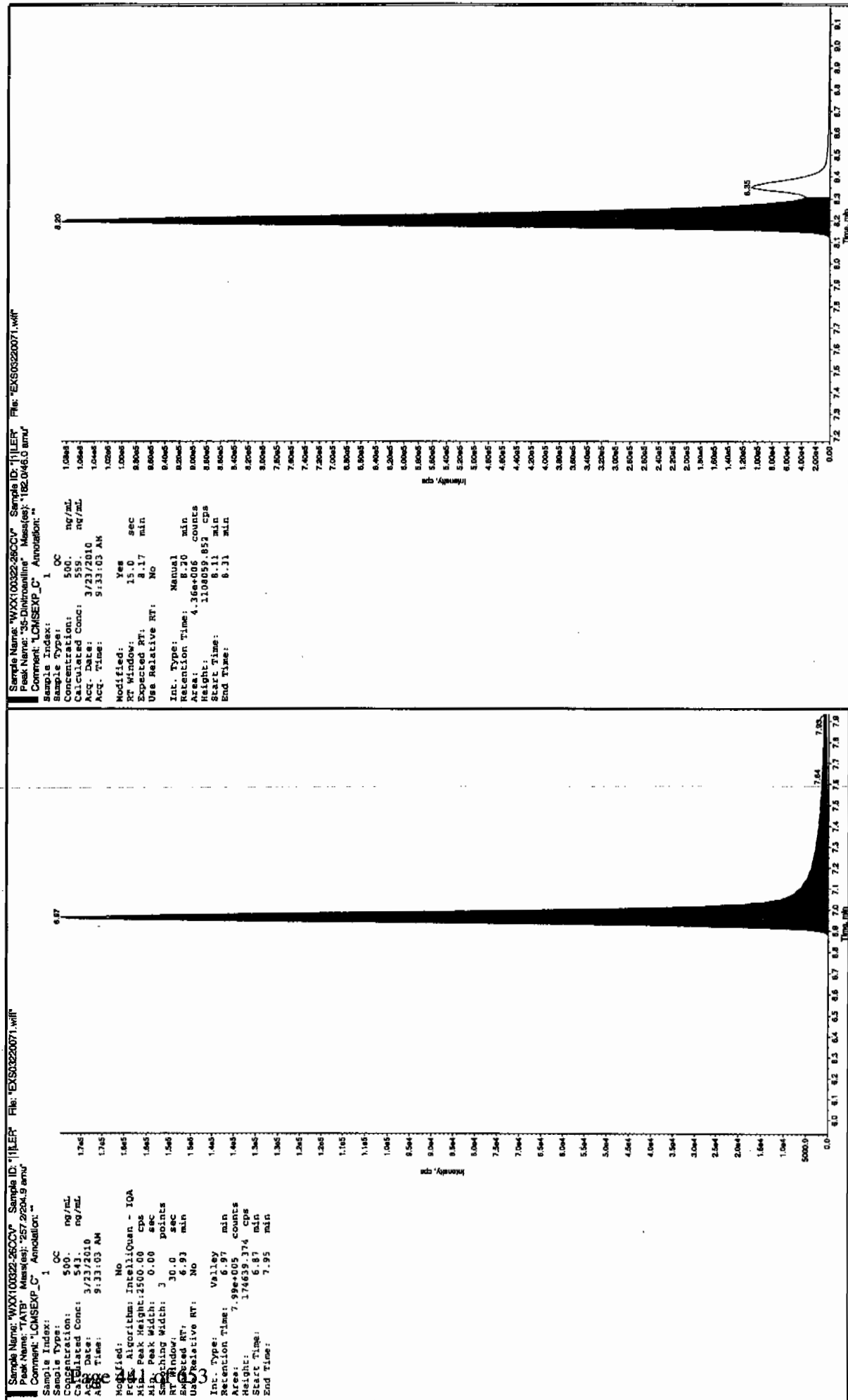
* Value outside of Recovery Limits

Before Ran 3/27/10



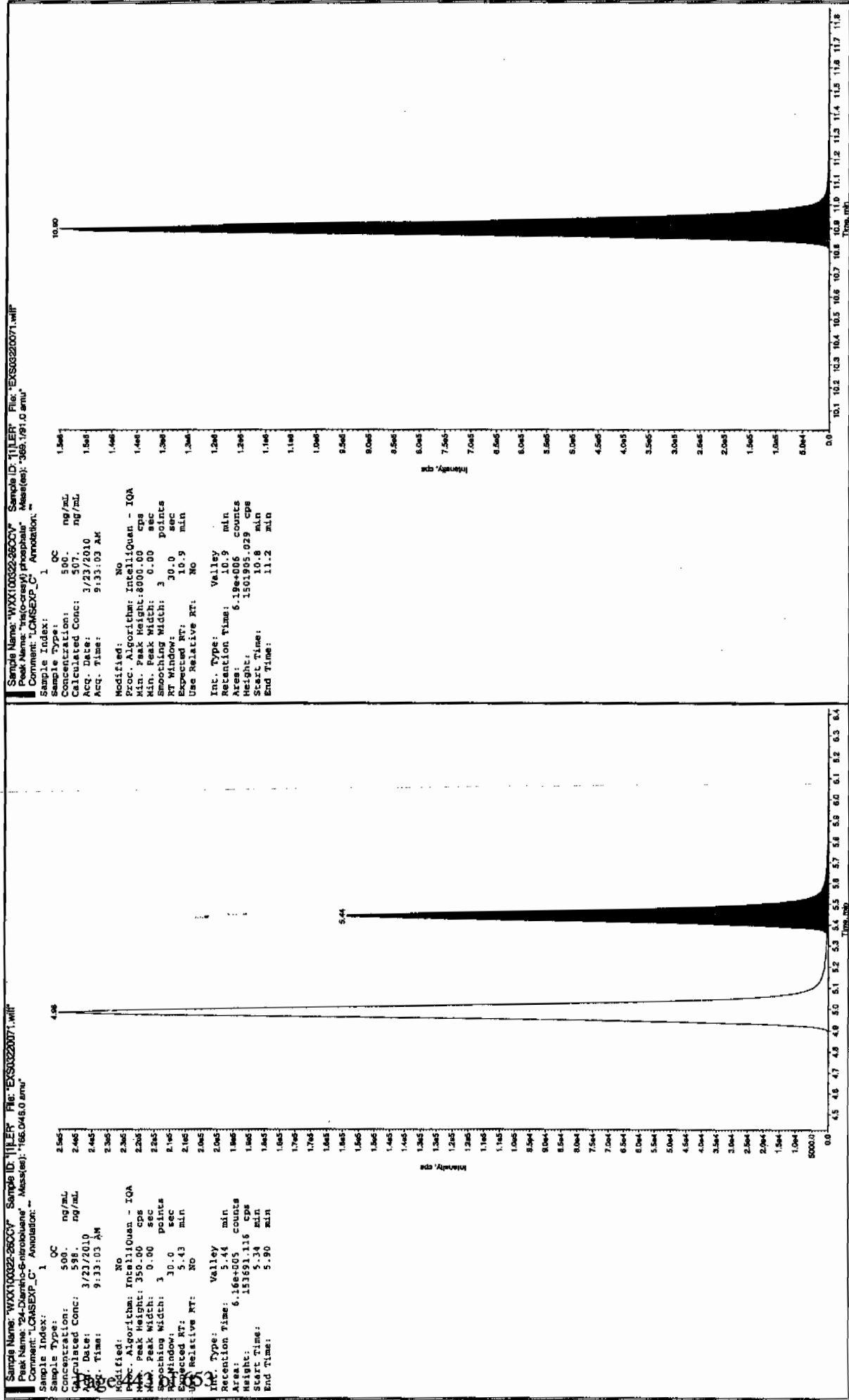
4/11/03/27/10

after Jan 31/10



Sample Name: "WXX100322-2600V" Sample ID: "11LEP" File: "EX03220071.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""
 Sample Index: 1
 Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 559. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:33:03 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.20 min
 Area: 4.36e+006 counts
 Height: 1108059.852 cps
 Start Time: 8.11 min
 End Time: 8.31 min

Sample Name: "WXX100322-2600V" Sample ID: "11LEP" File: "EX03220071.wif"
 Peak Name: "TATB" Mass(es): "257.20204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""
 Sample Index: 1
 Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 543. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:33:03 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Sampling Width: 30.0 points
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.97 min
 Area: 7.99e+005 counts
 Height: 174639.374 cps
 Start Time: 6.87 min
 End Time: 7.95 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220073.wiff

Analysis Date: 23-MAR-10 10:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	119	119	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	52.8	106	
3,5-Dinitroaniline	100	111	111	
TATB	100	101	101	
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 ,

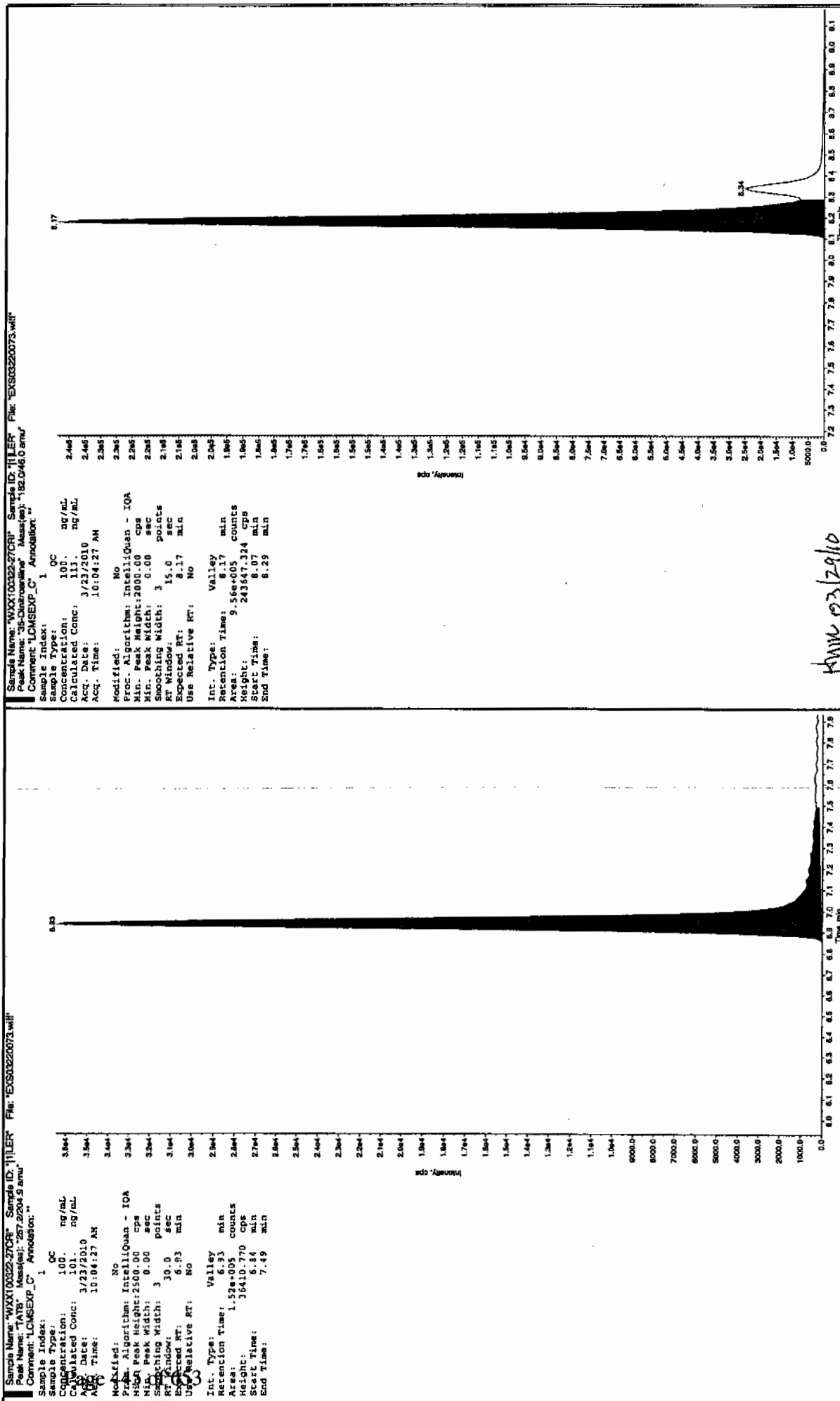
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

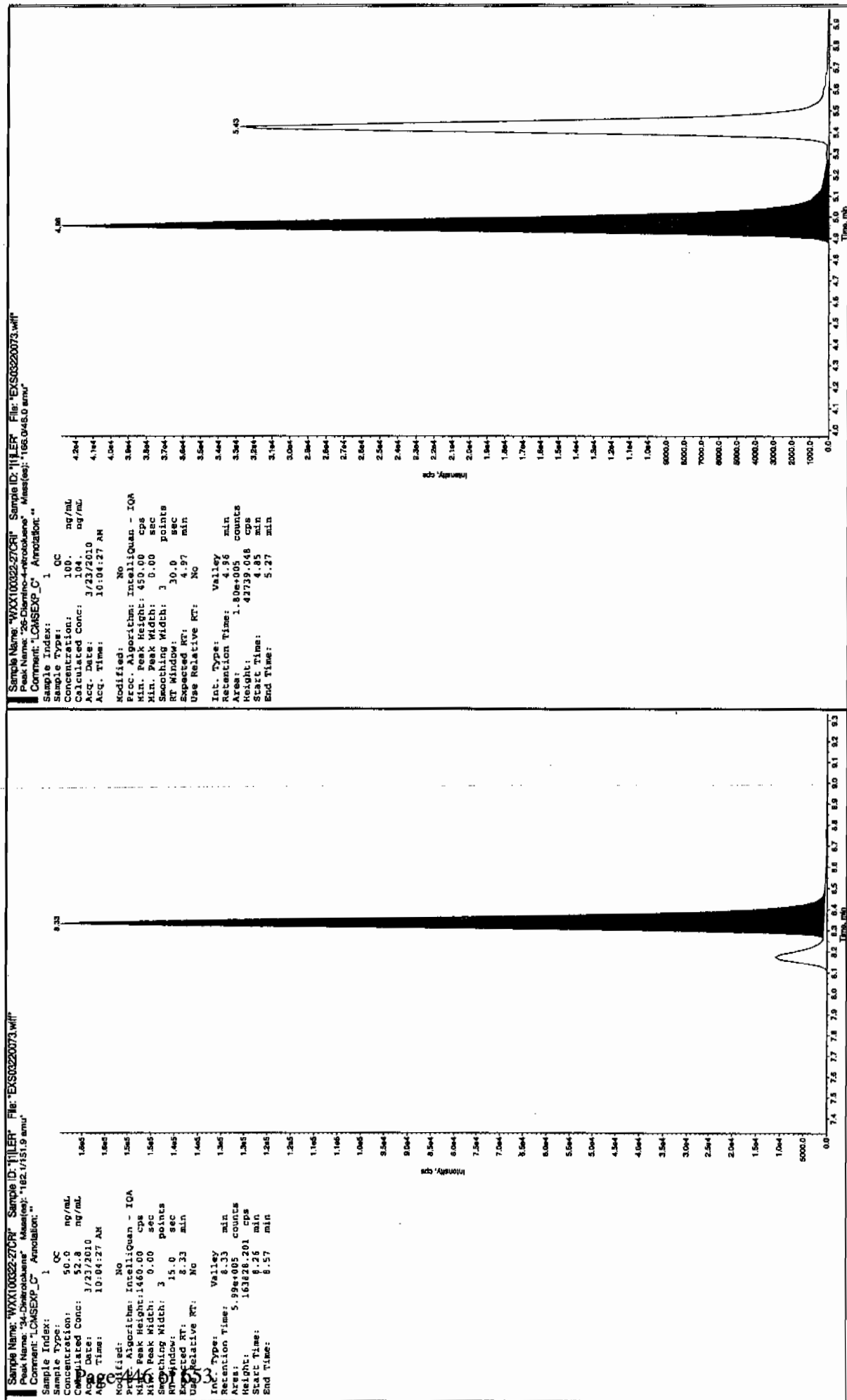
* Value outside of Recovery Limits

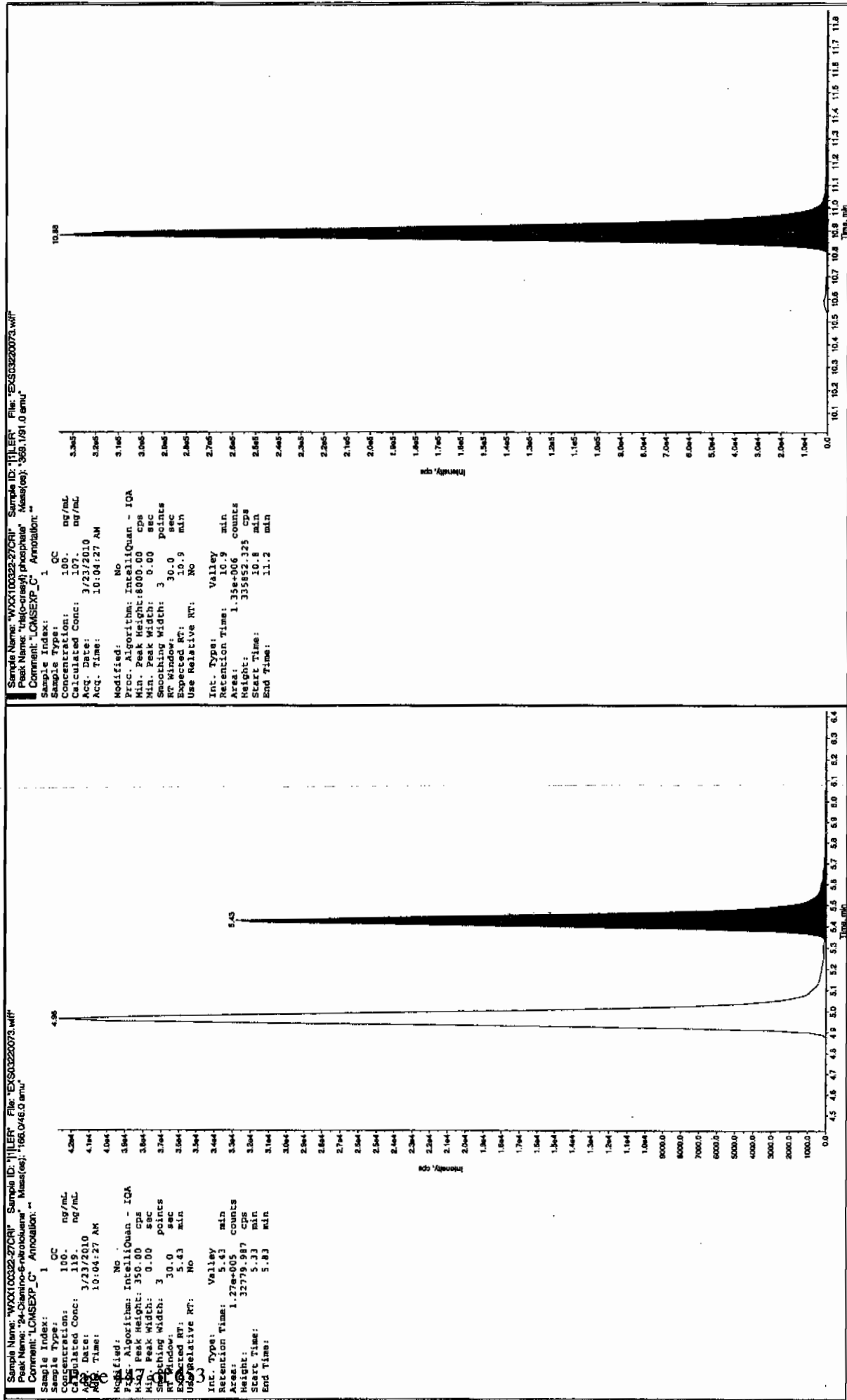
GLC 3/27/10



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

WXX 03/27/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220084.wiff

Analysis Date: 23-MAR-10 12:58

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	587	117	
2,6-Diamino-4-nitrotoluene	500	620	124	
3,4-Dinitrotoluene	250	244	98	
3,5-Dinitroaniline	500	550	110	
TATB	500	537	107	
tris(o-cresyl) phosphate	500	533	107	

Recovery Limits:

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

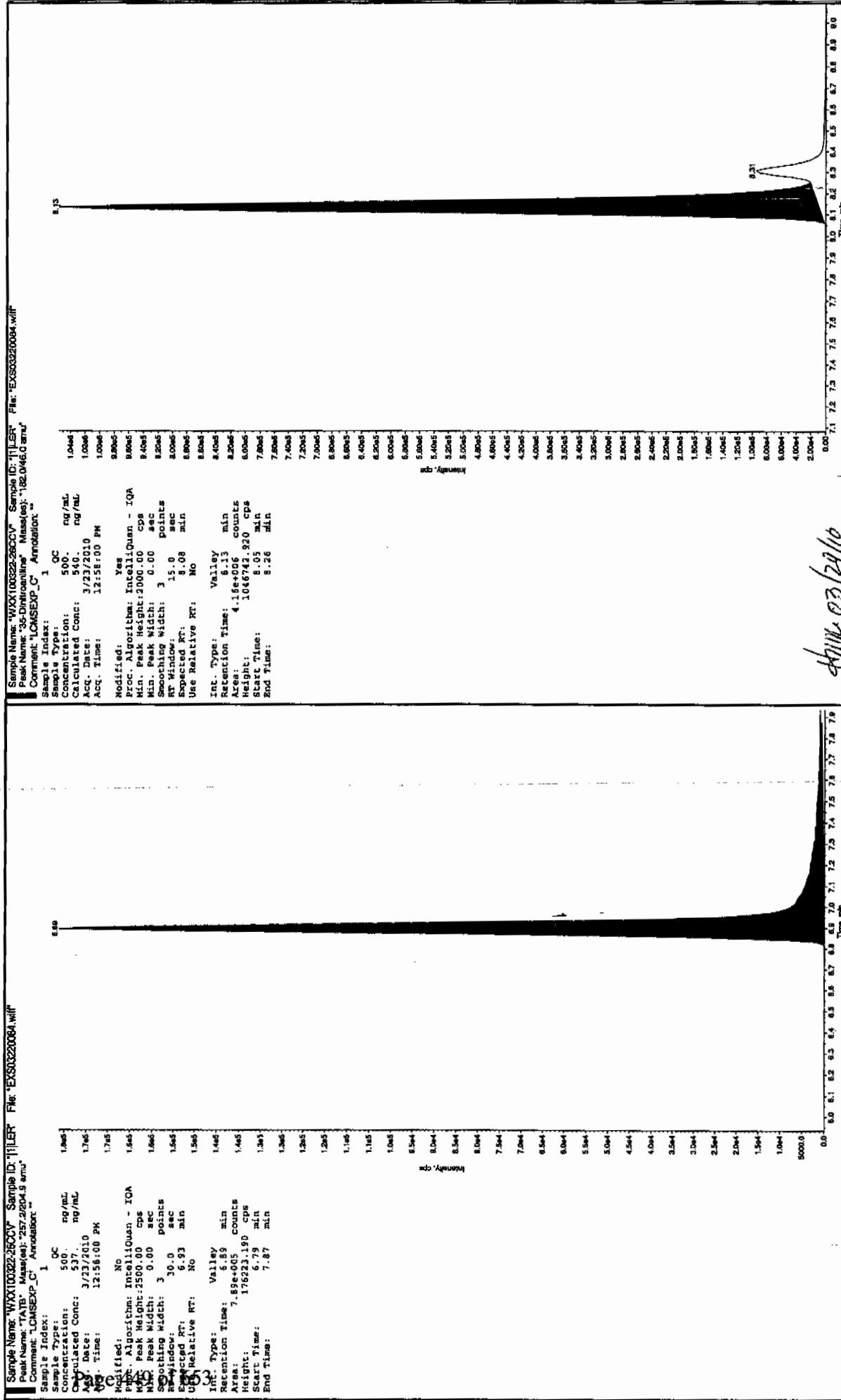
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

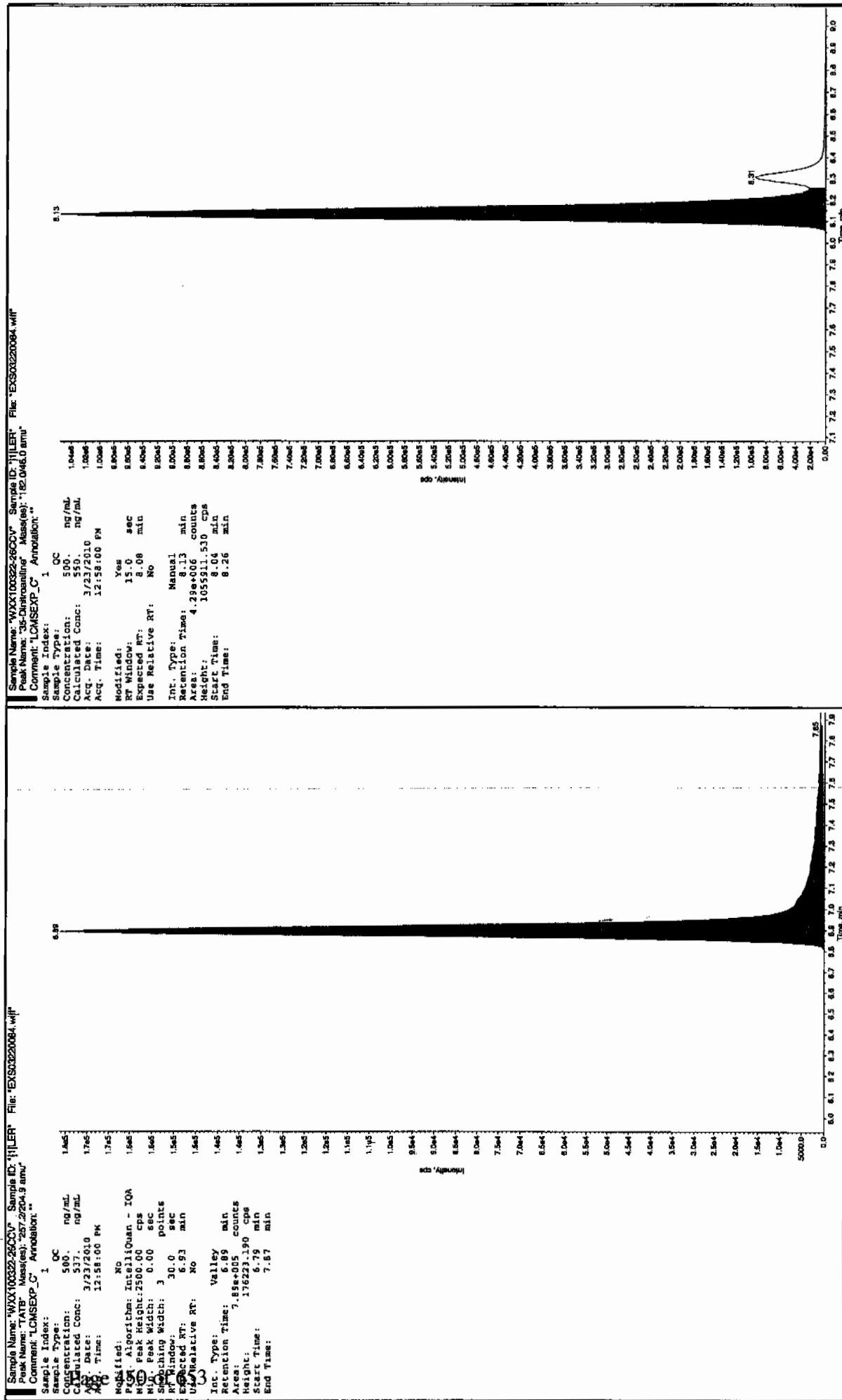
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Len 3/27/10

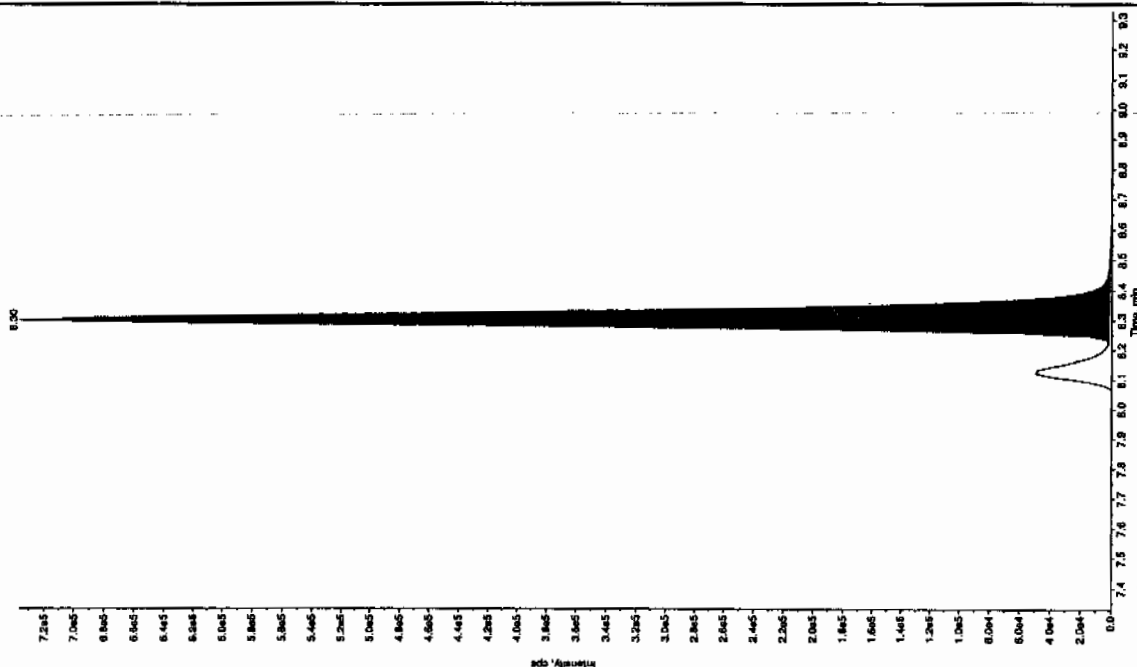


after Jan 3/27/10



Sample Name: "WXX100322-250CV" Sample ID: "111ER" File: "EXS0322094.wif"
 Peak Name: "25-Dimethoxy-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

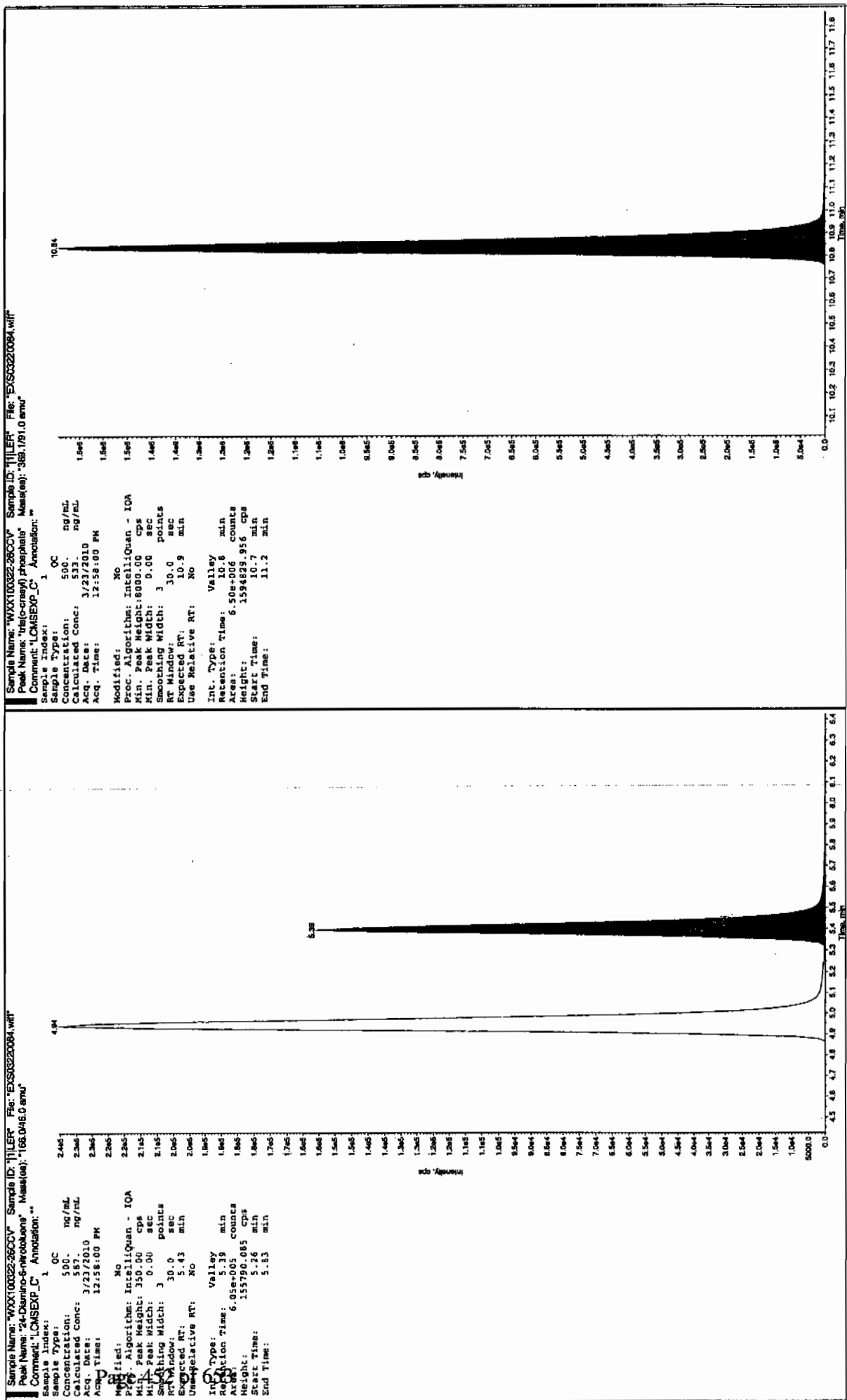
Sample Index: 1 QC
 Sample Type: 500.0 ng/mL
 Concentration: 620.0 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12:58:00 PM
 Acq. Time: 12:58:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.94 min
 Area: 9.66e+005 counts
 Height: 235346.161 cps
 Start Time: 4.74 min
 End Time: 5.24 min



Sample Name: "WXX100322-250CV" Sample ID: "111ER" File: "EXS0322094.wif"
 Peak Name: "34-Dibromofluorene" Mass(es): "182.115.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 250.0 ng/mL
 Concentration: 244.0 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12:58:00 PM
 Acq. Time: 12:58:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.30 min
 Area: 2.57e+005 counts
 Height: 714907.593 cps
 Start Time: 8.23 min
 End Time: 8.56 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220086.wiff

Analysis Date: 23-MAR-10 13:29

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	106	106	
2,6-Diamino-4-nitrotoluene	100	96.1	96	
3,4-Dinitrotoluene	50	51.6	103	
3,5-Dinitroaniline	100	106	106	
TATB	100	102	102	
tris(o-cresyl) phosphate	100	108	108	

Recovery Limits:

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

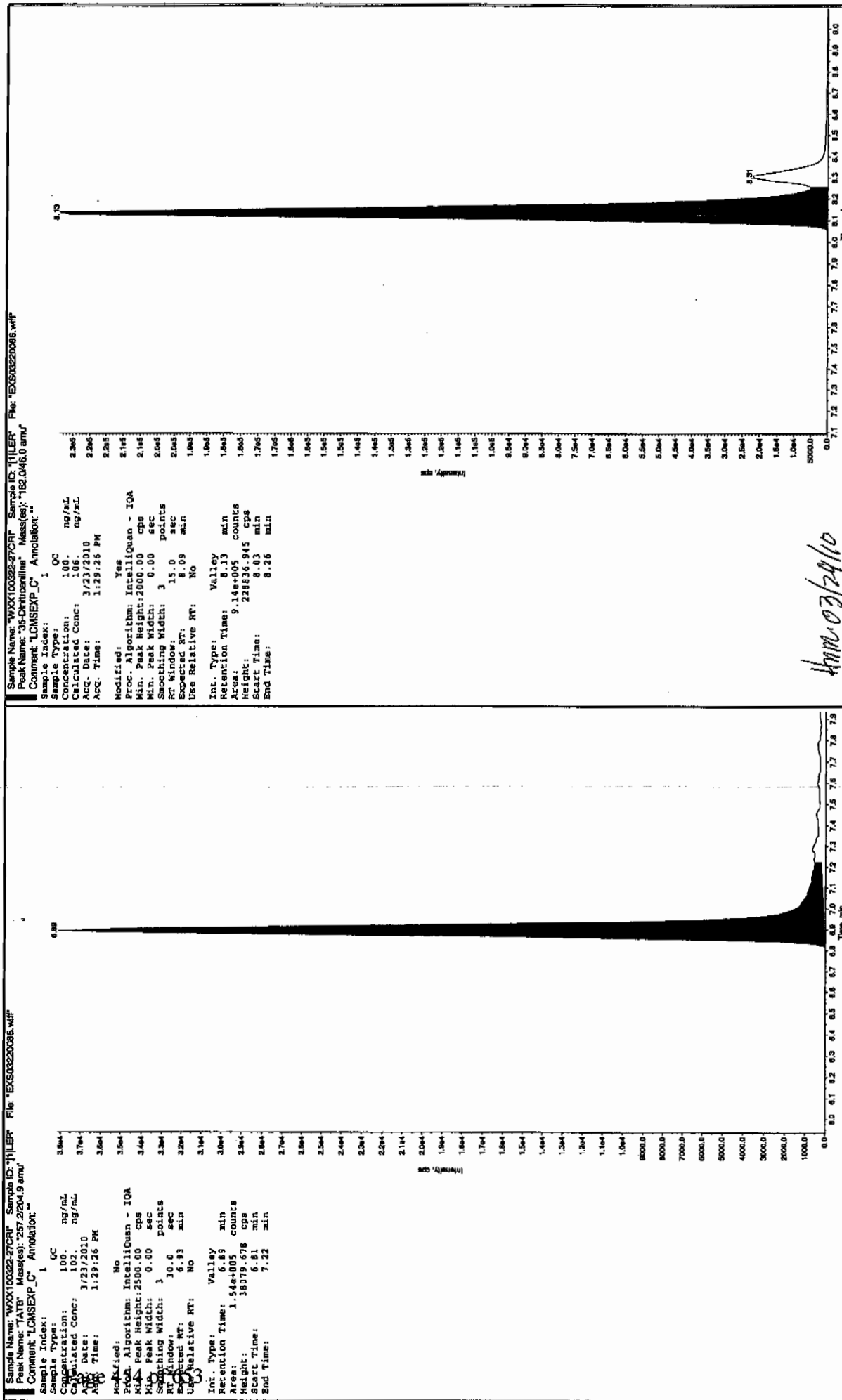
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

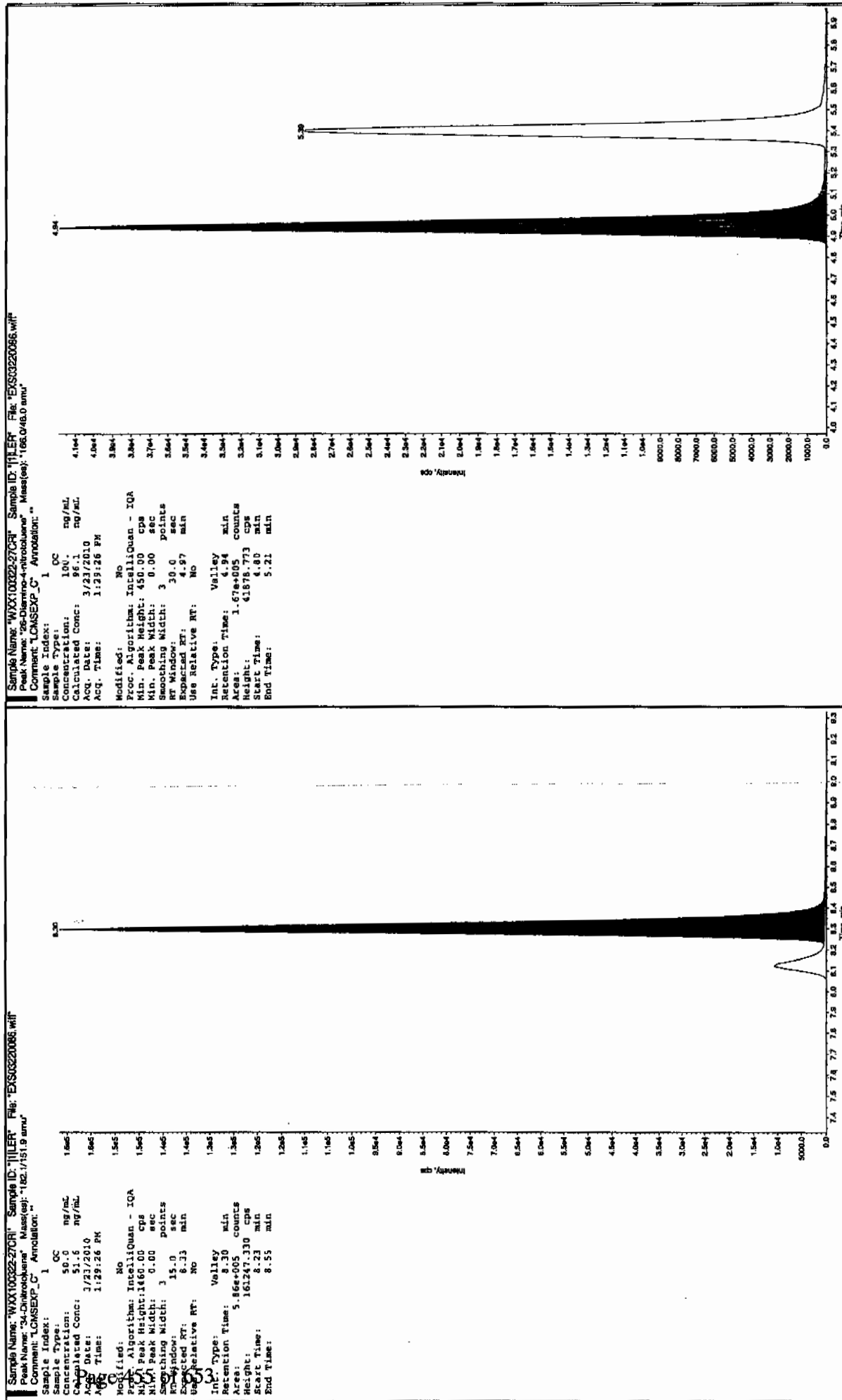
Column used to flag Recovery outside of Limits

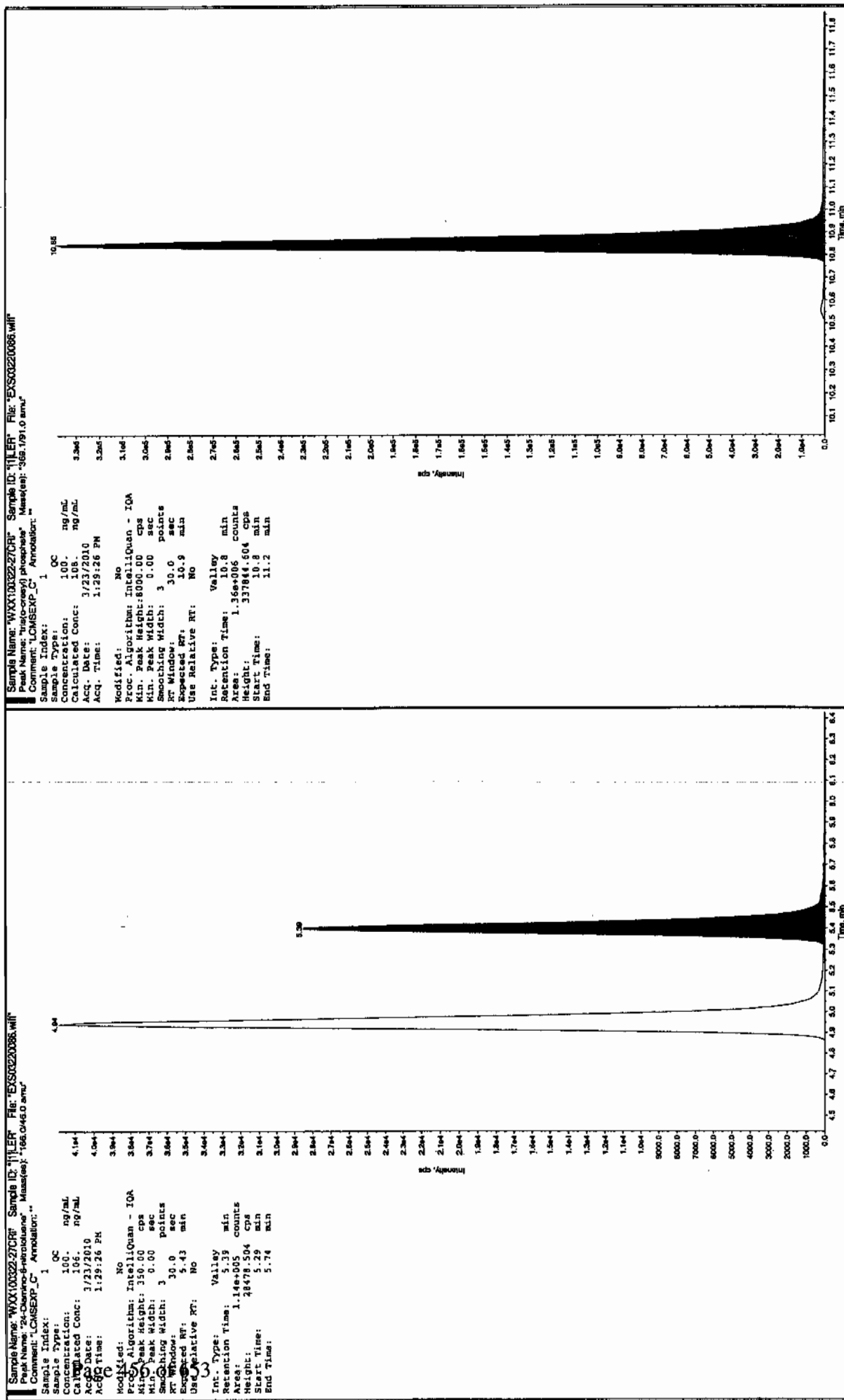
* Value outside of Recovery Limits

Jan 3/27/10



Jan 03/24/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220091.wiff

Analysis Date: 23-MAR-10 14:49

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	501	100	
2,6-Diamino-4-nitrotoluene	500	533	107	
3,4-Dinitrotoluene	250	250	100	
3,5-Dinitroaniline	500	527	105	
TATB	500	528	106	
tris(o-cresyl) phosphate	500	514	103	

Recovery Limits:

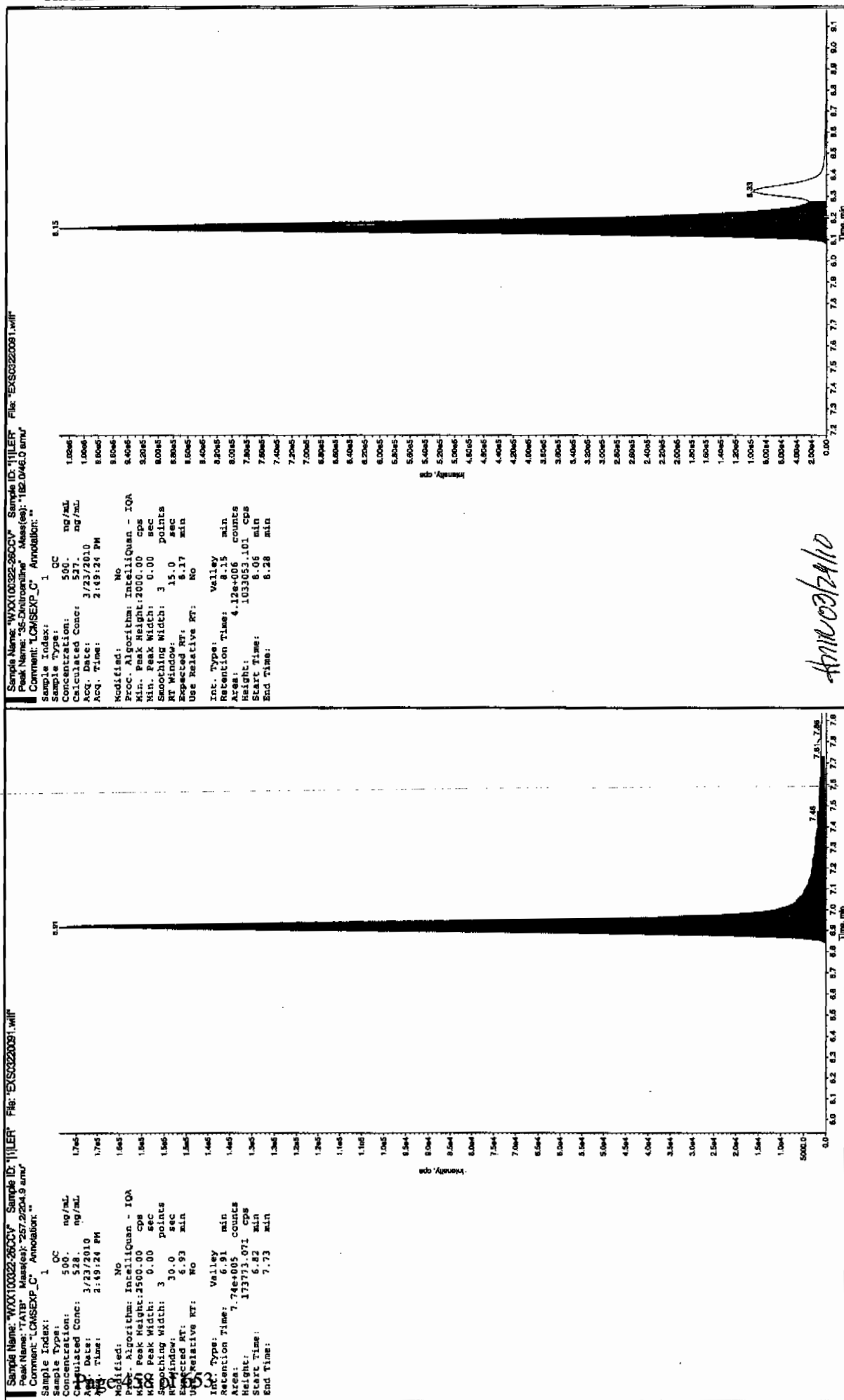
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

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

Other Target Analytes 80-120%

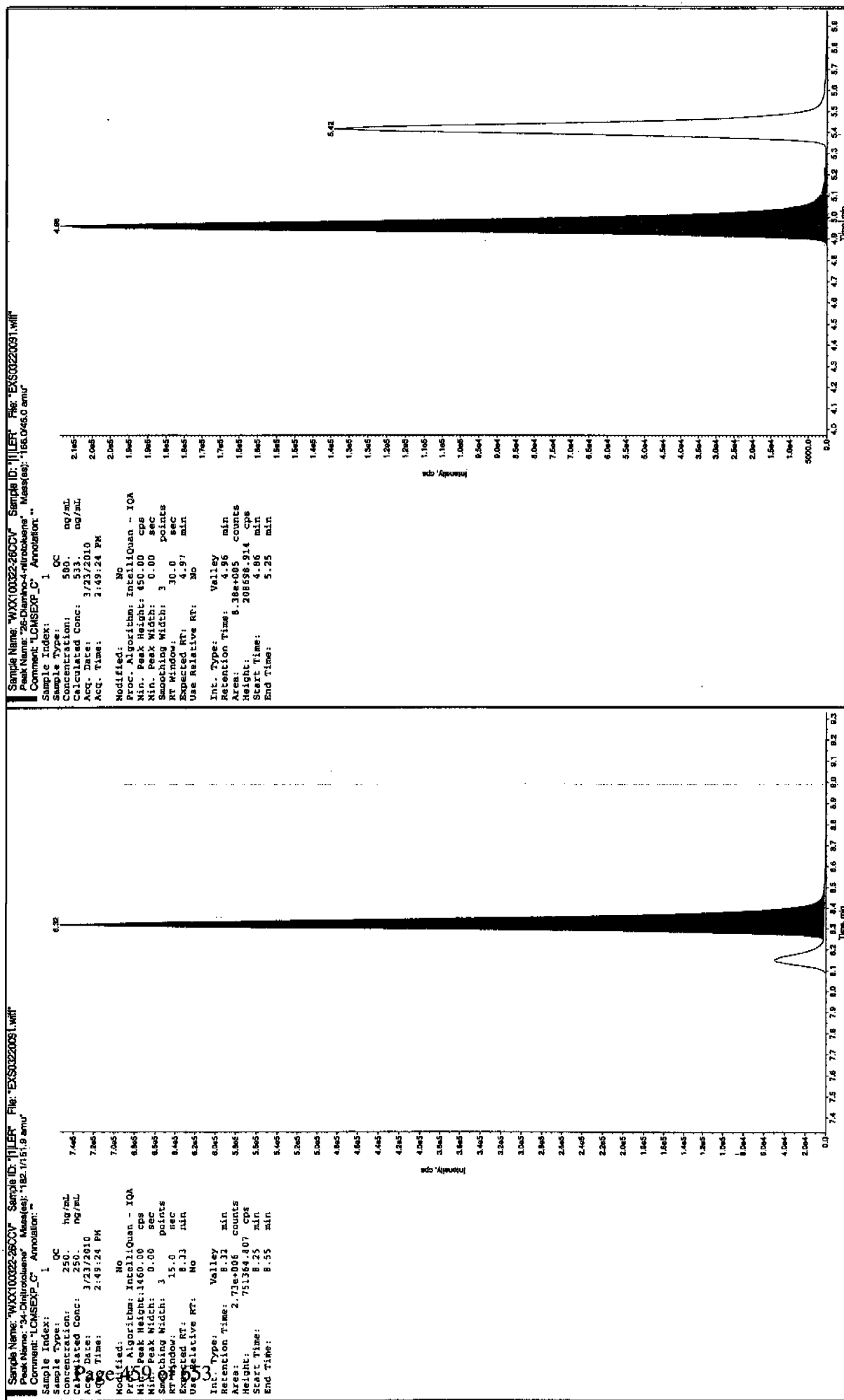
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits



Jan 3/27/10

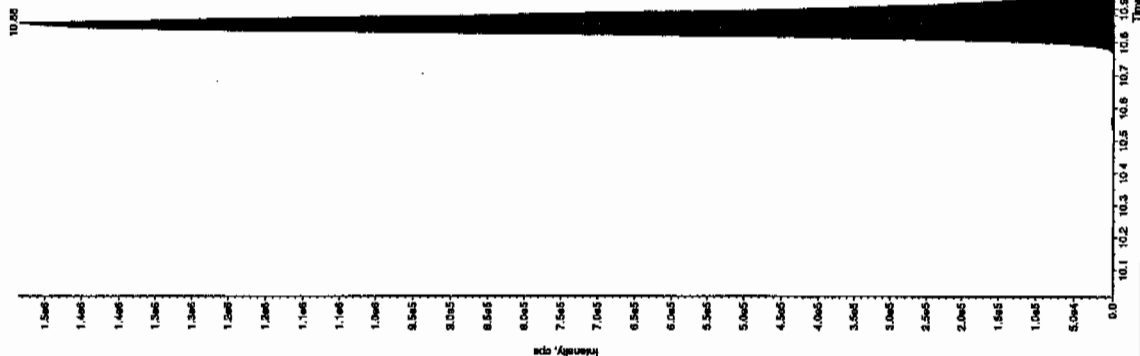
Amc 03/27/10



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

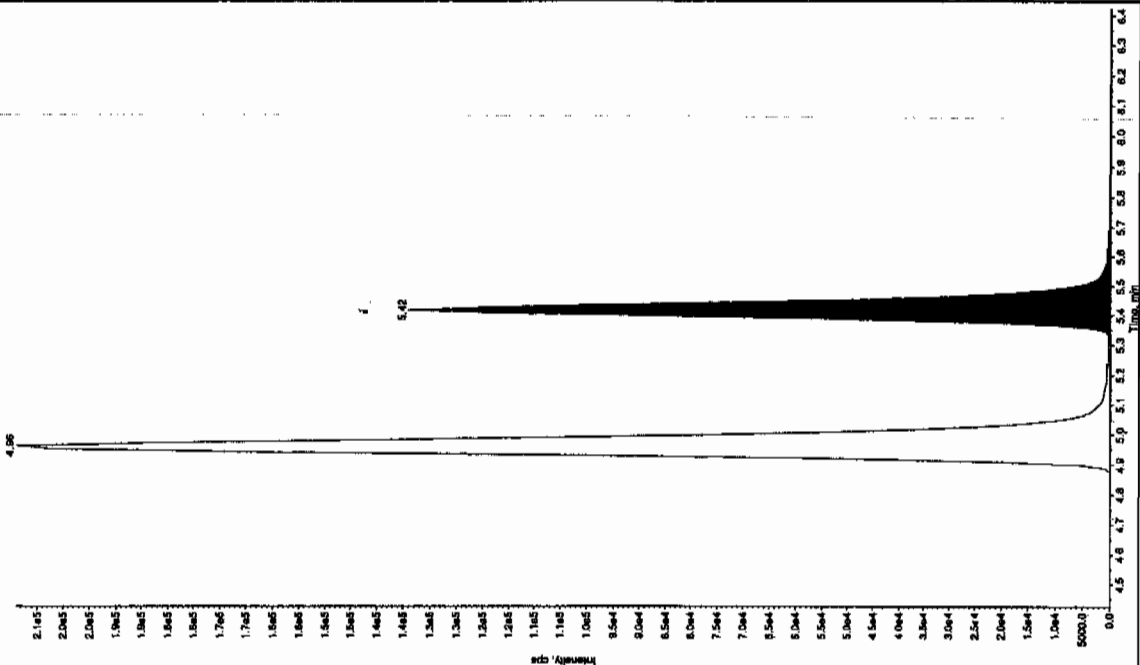
Sample Name: "WXX10022-2800Y" Sample ID: "111EF" File: "E503220091.wif"
 Peak Name: "Tri-(n-propyl) phosphine" Mass(es): 355.1791.0 amu
 Comment: "L0MSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 514 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 2:49:24 PM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.28e+005 counts
 Height: 1484423.095 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Sample Name: "WXX10022-2800Y" Sample ID: "111EF" File: "E503220091.wif"
 Peak Name: "12A-Quinone-6-methoxy" Mass(es): 166.046.0 amu
 Comment: "L0MSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 501 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 2:49:24 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: 5.43 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 5.43 min
 Area: 5.21e+005 counts
 Height: 133933.921 cps
 Start Time: 5.31 min
 End Time: 5.74 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220093.wiff

Analysis Date: 23-MAR-10 15:20

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	109	109	
2,6-Diamino-4-nitrotoluene	100	108	108	
3,4-Dinitrotoluene	50	53	106	
3,5-Dinitroaniline	100	107	107	
TATB	100	107	107	
tris(o-cresyl) phosphate	100	113	113	

Recovery Limits:

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

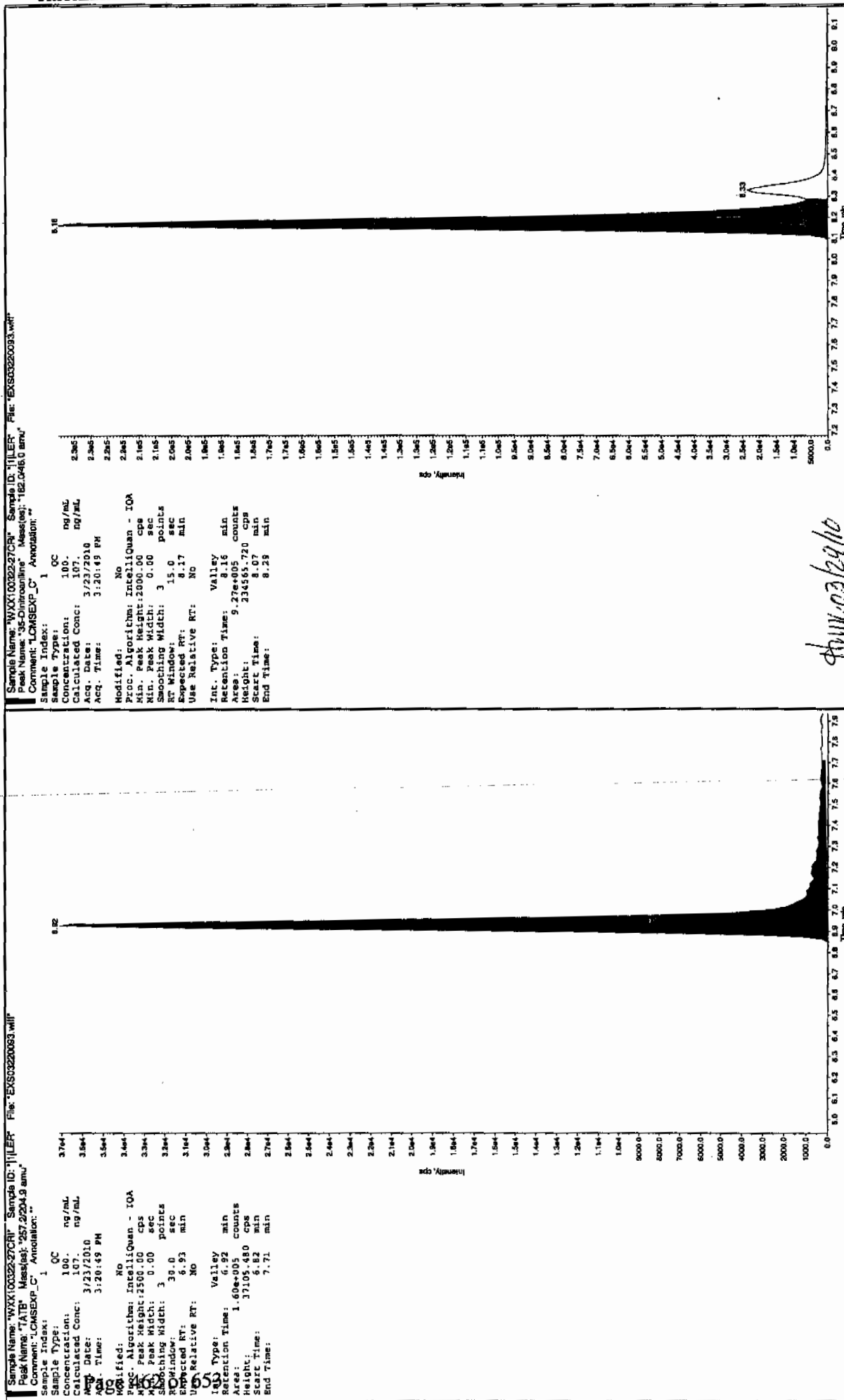
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

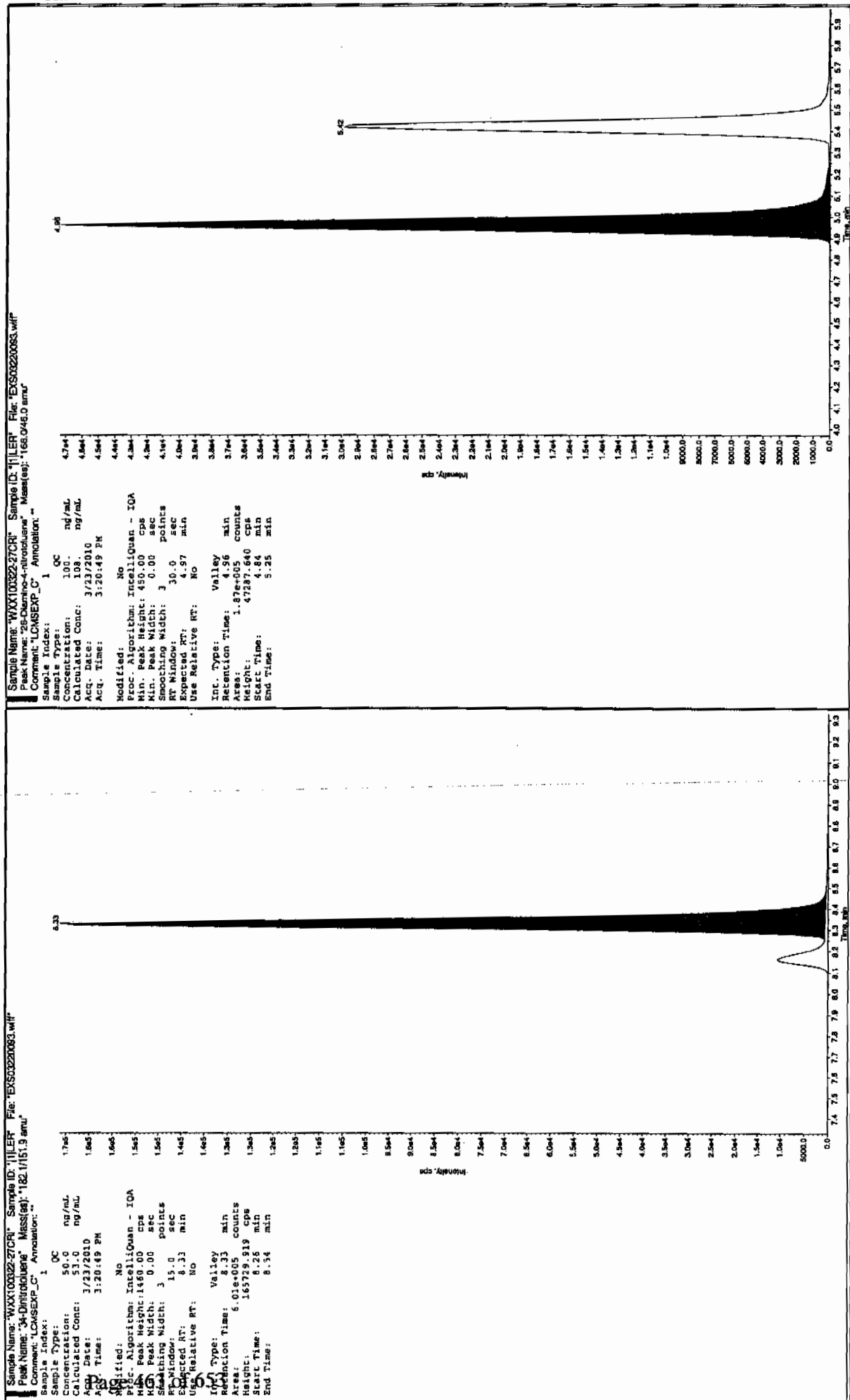
Column used to flag Recovery outside of Limits

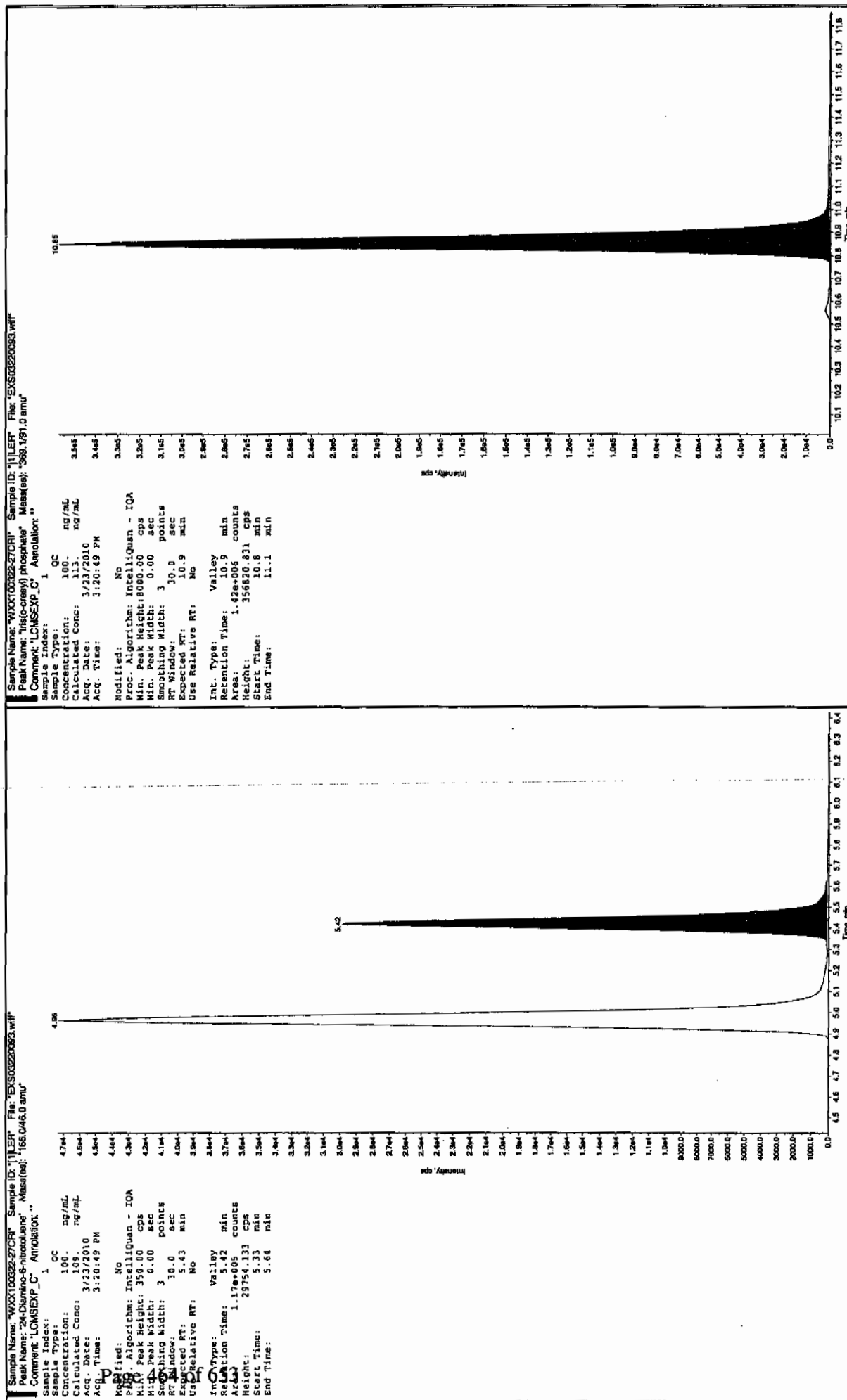
* Value outside of Recovery Limits

Jan 31 2010



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





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220104.wiff

Analysis Date: 23-MAR-10 18:13

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	522	104	
2,6-Diamino-4-nitrotoluene	500	532	106	
3,4-Dinitrotoluene	250	221	89	
3,5-Dinitroaniline	500	469	94	
TATB	500	529	106	
tris(o-cresyl) phosphate	500	521	104	

Recovery Limits:

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

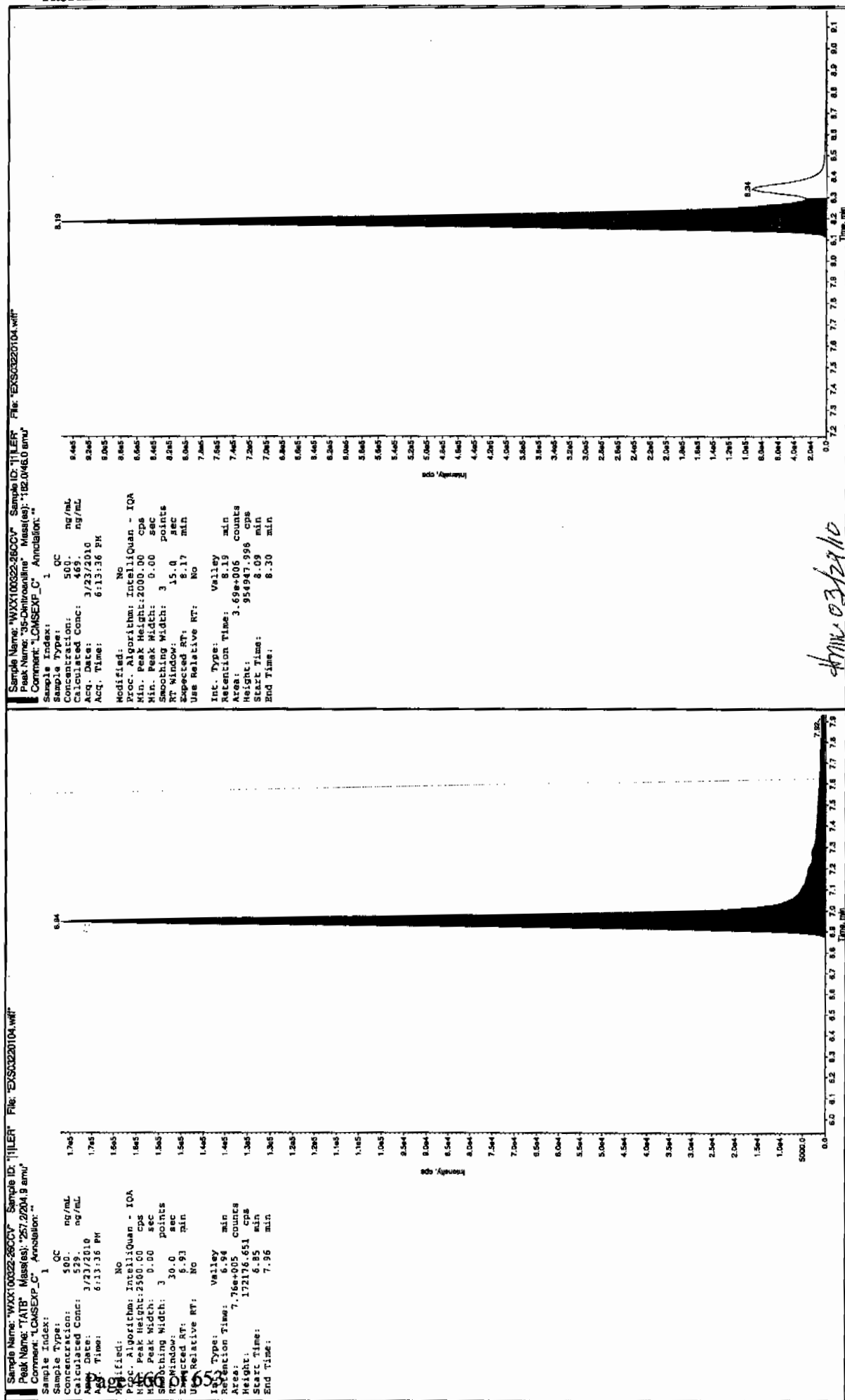
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

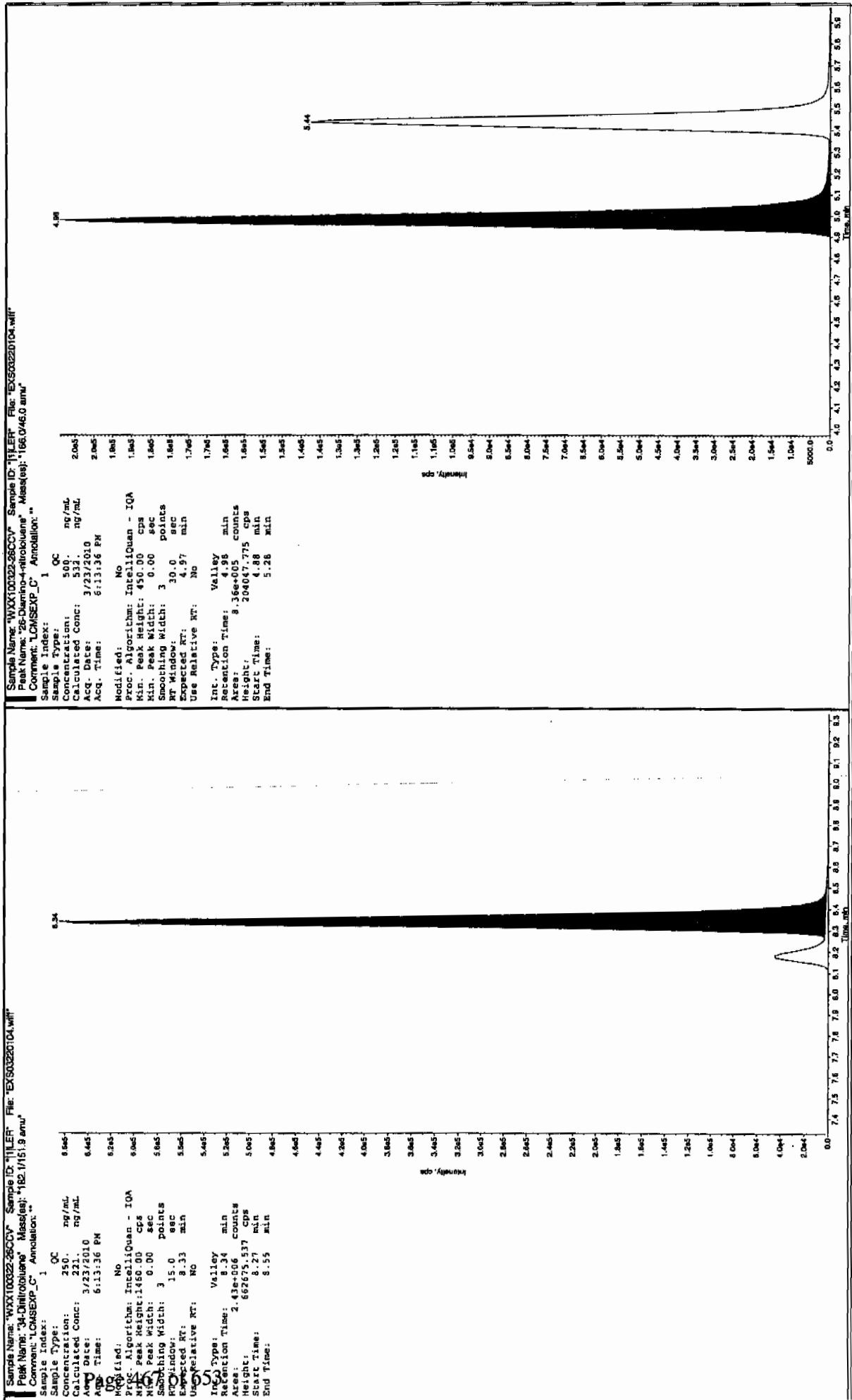
Column used to flag Recovery outside of Limits

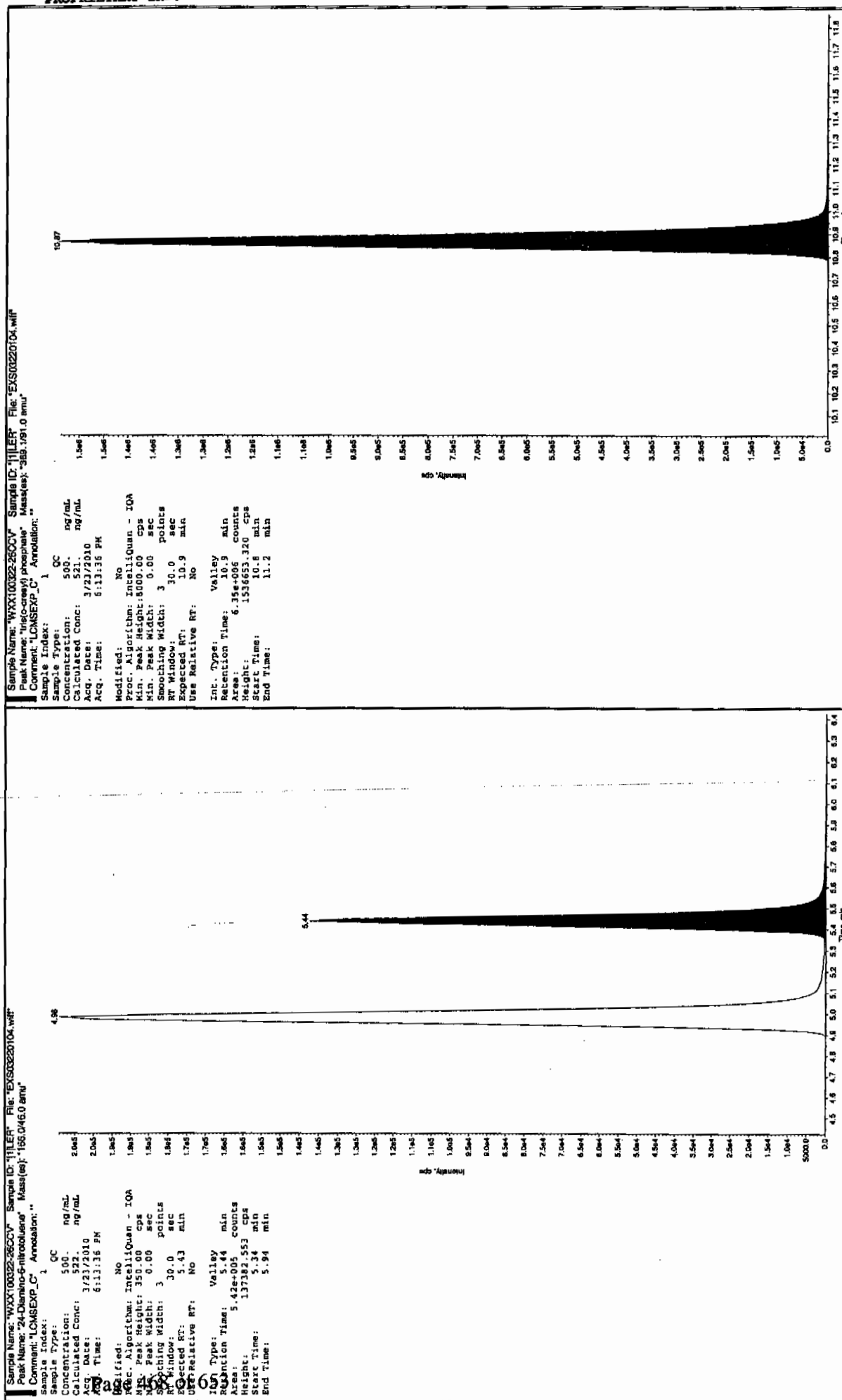
* Value outside of Recovery Limits

Jan 3/29/10



Jan 3/29/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220106.wiff

Analysis Date: 23-MAR-10 18:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	98.8	99	
2,6-Diamino-4-nitrotoluene	100	98.3	98	
3,4-Dinitrotoluene	50	43.5	87	
3,5-Dinitroaniline	100	84.4	84	
TATB	100	87.2	87	
tris(o-cresyl) phosphate	100	113	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 50-150%

Other Target Analytes 70-130%

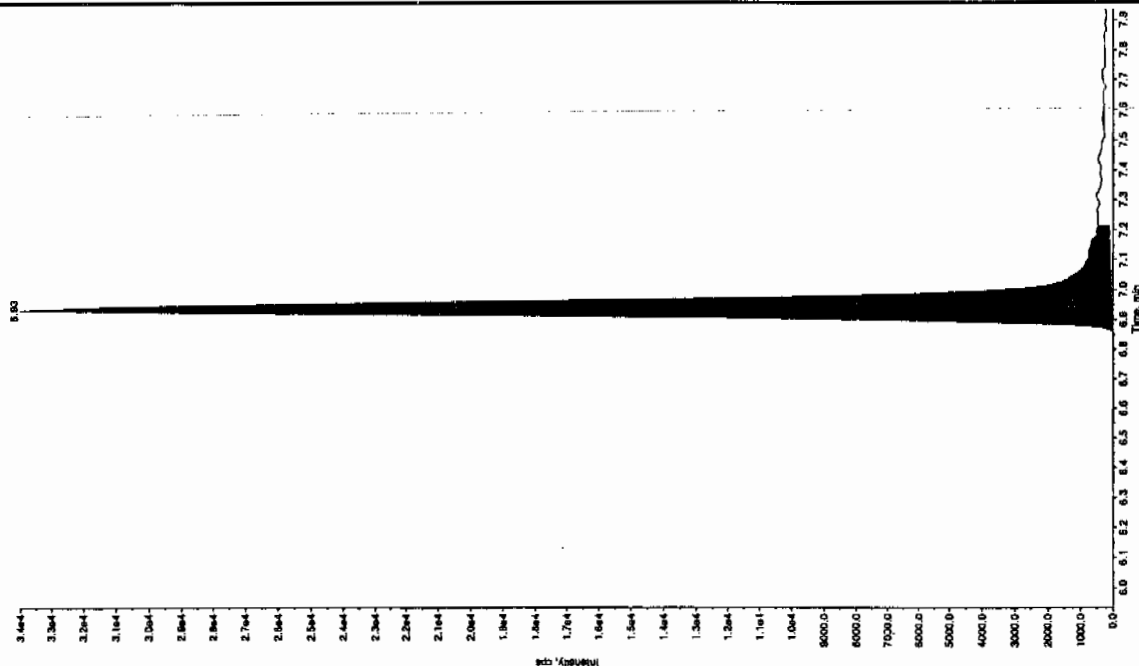
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

800 3/23/10

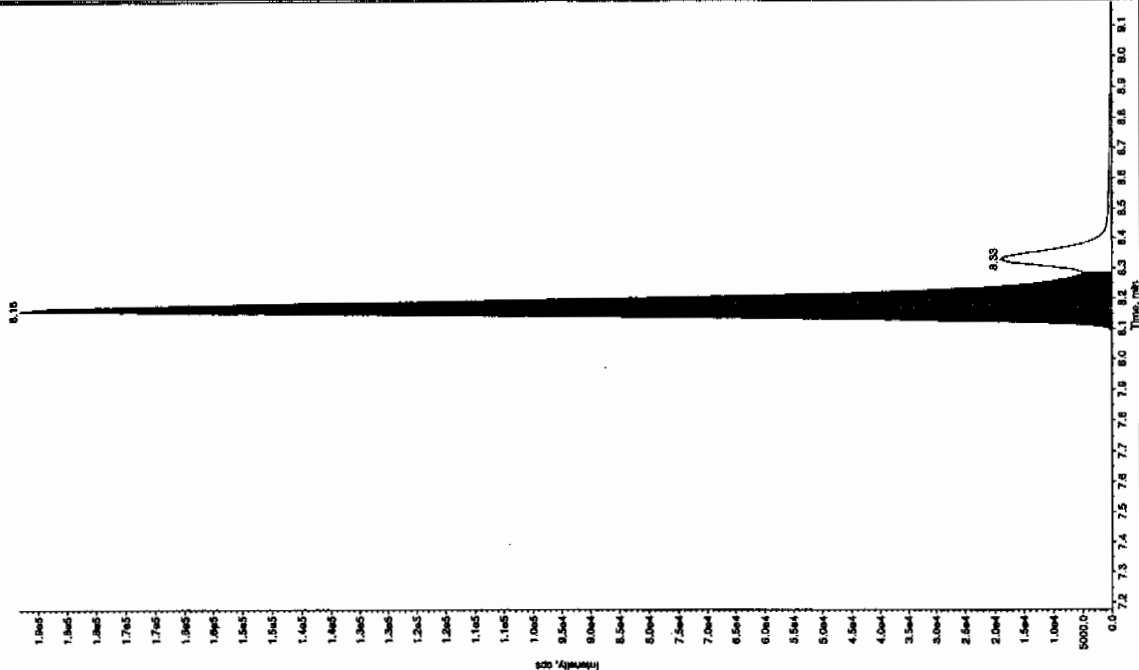
Sample Name: "WXX100322-27C91" Sample ID: "111ER" File: "EXSC0220108.wif"
 Peak Name: "TAIB" Mass(es): "257.2/204.9 amu"
 Comment: "LONSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 100
 Concentration: 87.2 ng/mL
 Calculated Conc: 87.2 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:44:59 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 1.35e+005 counts
 Height: 33980.831 cps
 Start Time: 6.84 min
 End Time: 7.21 min

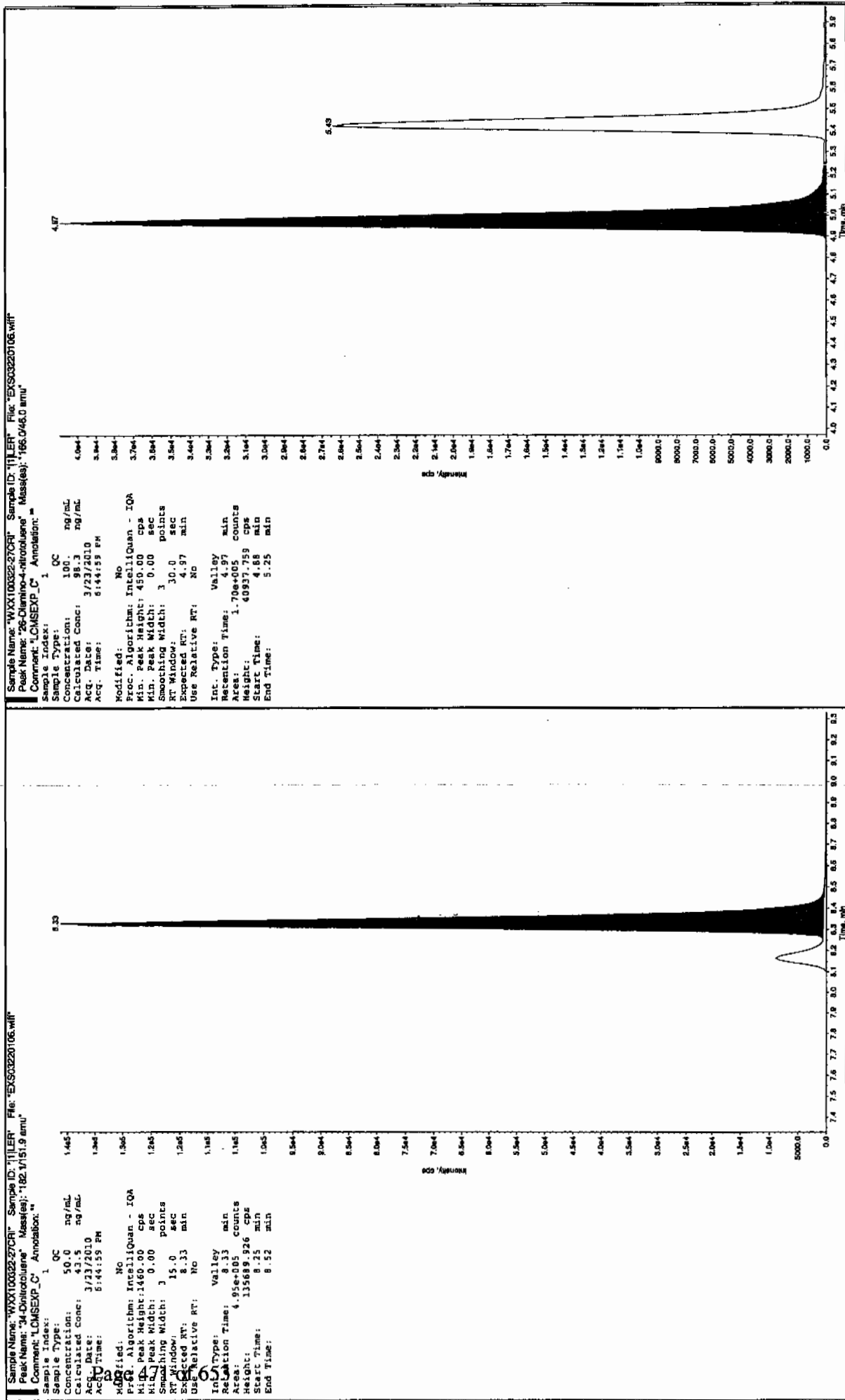


Sample Name: "WXX100322-27C91" Sample ID: "111ER" File: "EXSC0220108.wif"
 Peak Name: "3S-Contrastine" Mass(es): "182.0/46.0 amu"
 Comment: "LONSEXP_C" Annotation: "

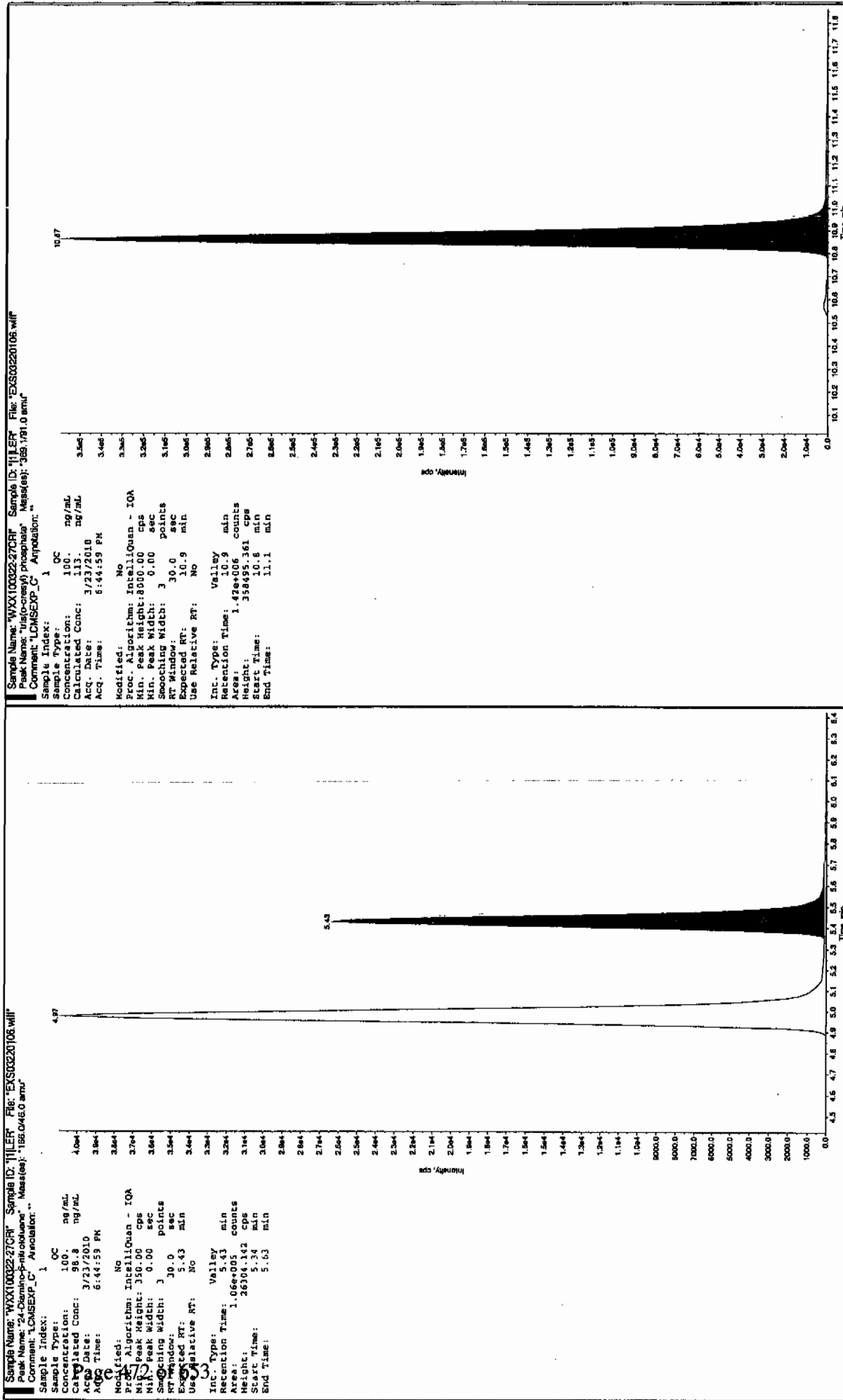
Sample Index: 1
 Sample Type: 100
 Concentration: 84.4 ng/mL
 Calculated Conc: 84.4 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 6:44:59 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 7.47e+005 counts
 Height: 188371.643 cps
 Start Time: 8.07 min
 End Time: 8.29 min



800 3/23/10



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



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220117.wiff

Analysis Date: 23-MAR-10 21:37

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	622	124	
2,6-Diamino-4-nitrotoluene	500	617	123	
3,4-Dinitrotoluene	250	224	90	
3,5-Dinitroaniline	500	491	98	
TATB	500	530	106	
tris(o-cresyl) phosphate	500	528	106	

Recovery Limits:

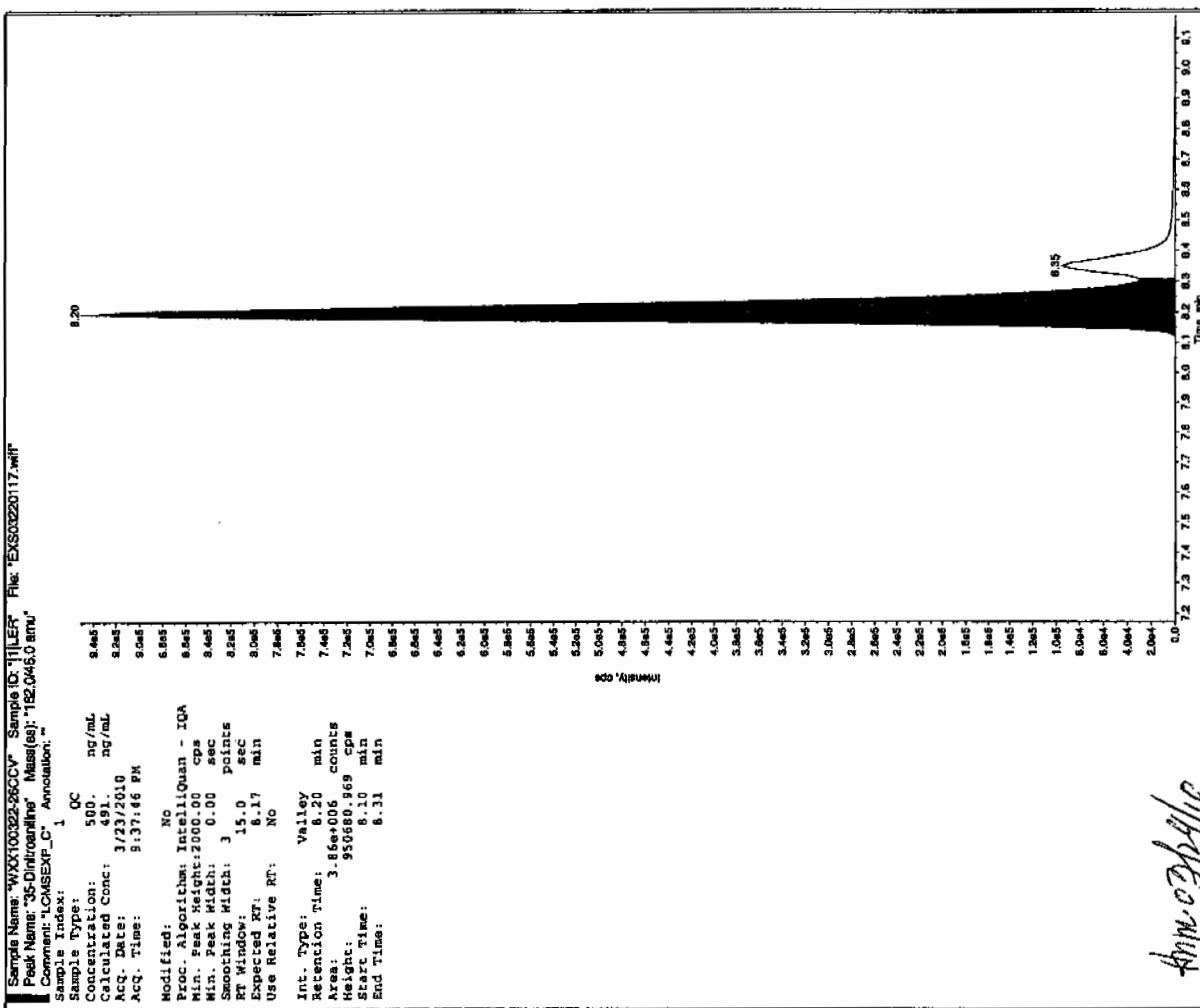
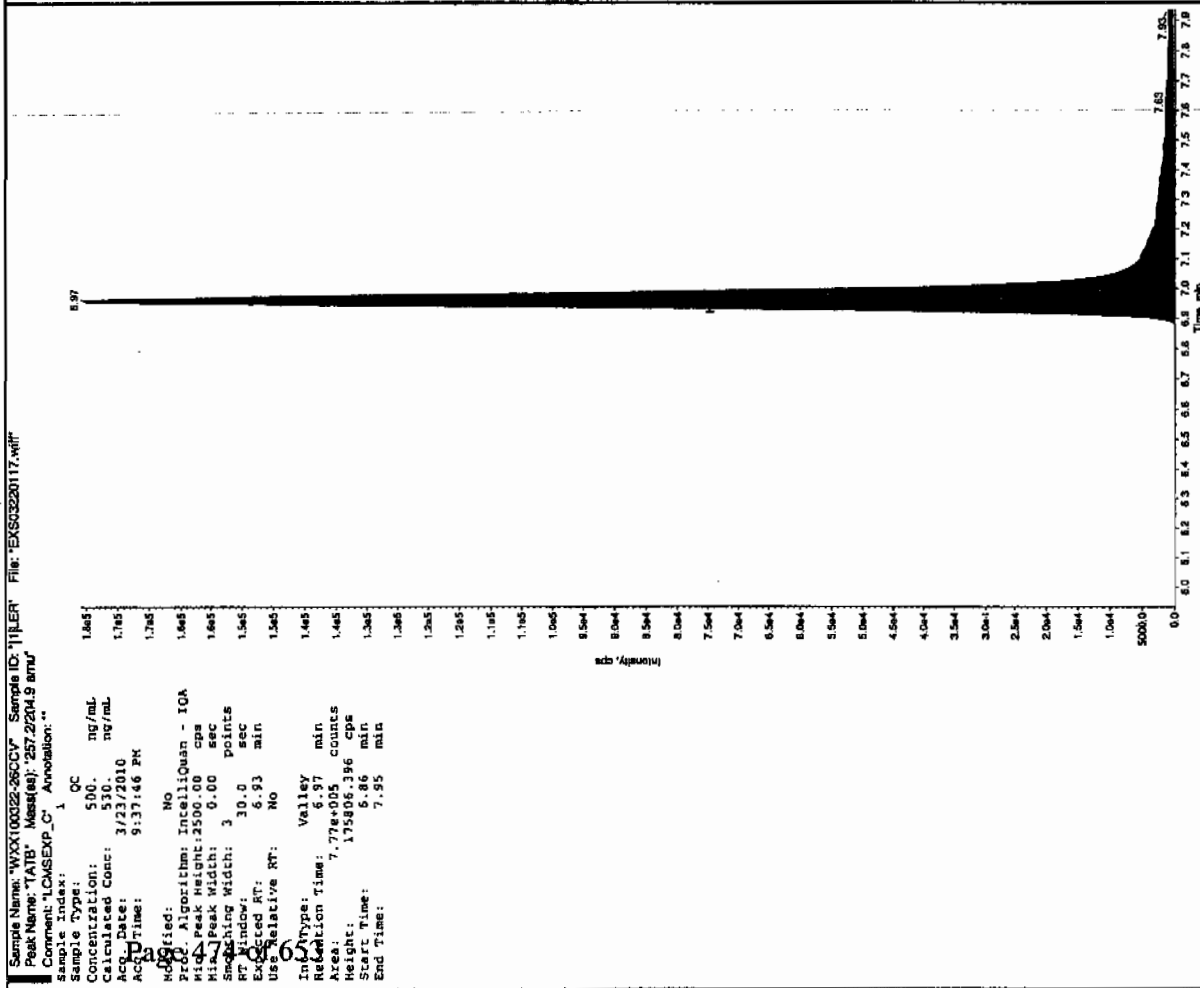
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

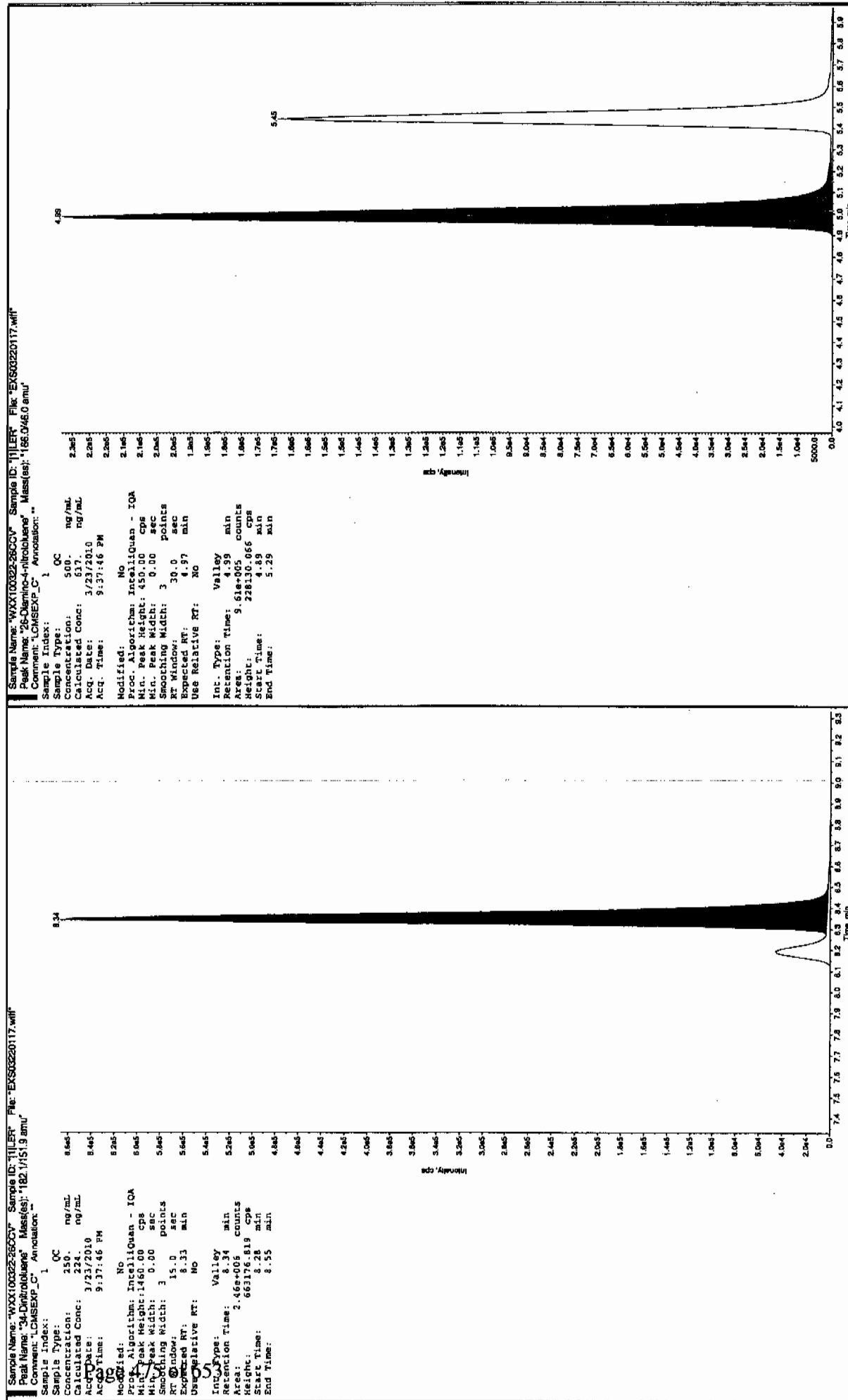
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 3/27/10



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



Sample Name: "WXX100322-2800V" Sample ID: "JLER" File: "EX503220117.wif"

Peak Name: "trio-cresyl phosphate" Mass(es): "388.191.0 amu"

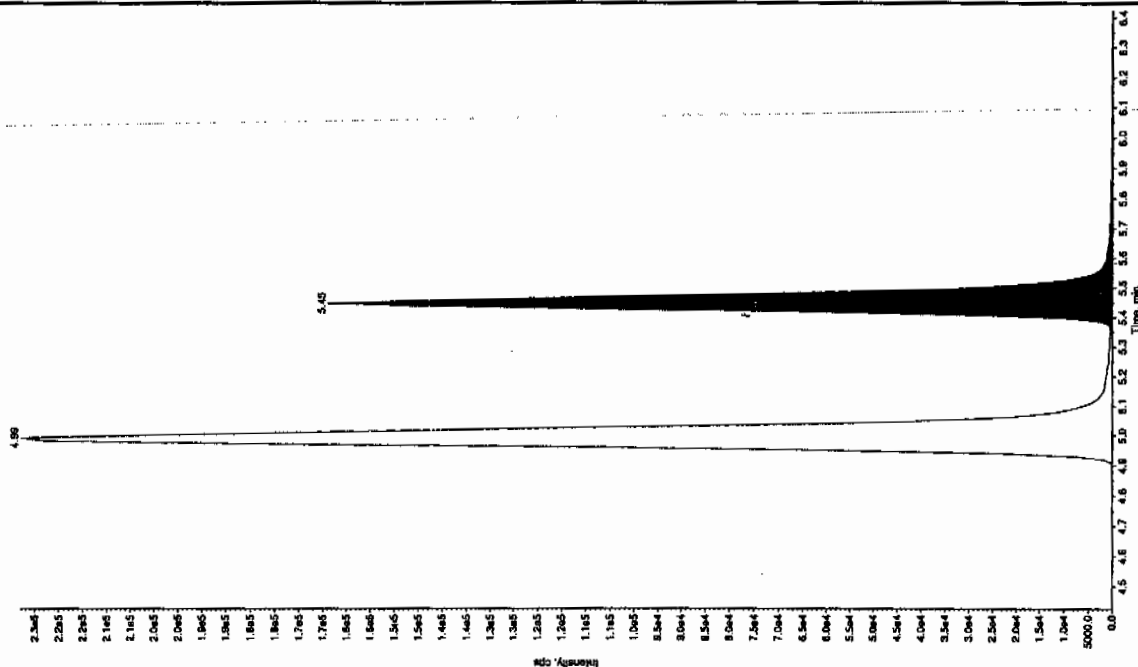
Comment: "LCMSXP_G" Annotation: ""

Sample Index: 1

Sample Type: QC
Concentration: 500. ng/mL
Conc. Unit: ng/mL
Acq. Date: 3/23/2010
Acq. Time: 9:37:46 PM

Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 8000.00 cps
Min. Peak Width: 0.00 sec
Smoother Width: 3 points
RT Window: 30.0 sec
Expected RT: 10.9 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 6.44e+008 counts
Height: 1577877.197 cps
Start Time: 10.8 min
End Time: 11.2 min



Sample Name: "WXX100322-2800V" Sample ID: "JLER" File: "EX503220117.wif"

Peak Name: "24-Diamino-5-nitroguanine" Mass(es): "166.046.0 amu"

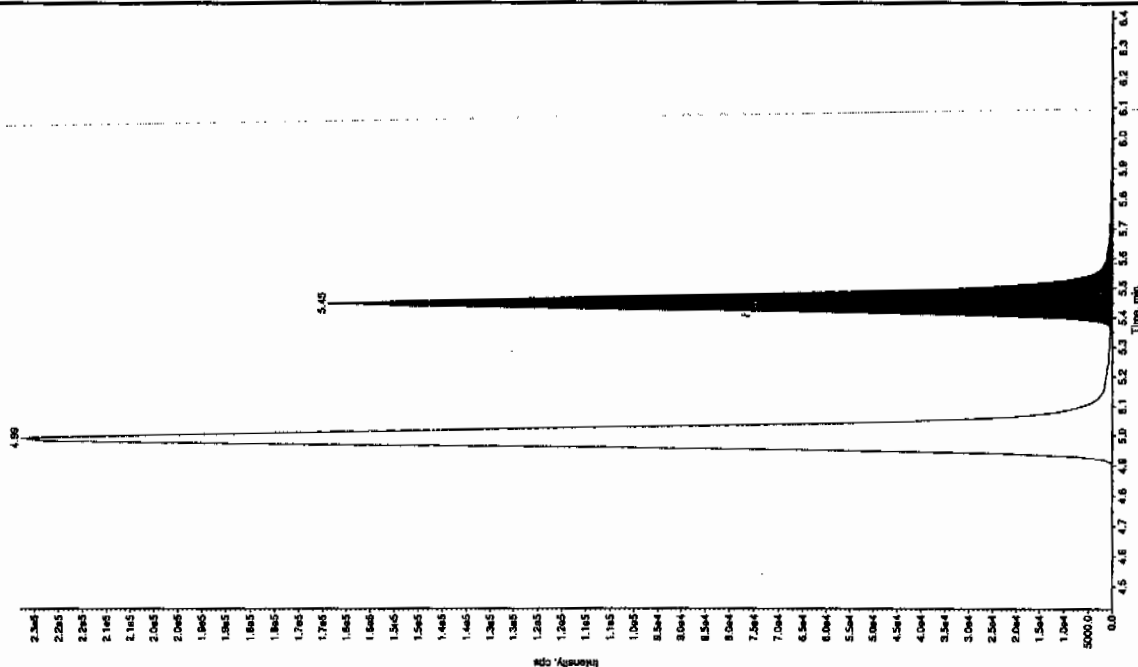
Comment: "LCMSXP_G" Annotation: ""

Sample Index: 1

Sample Type: QC
Concentration: 500. ng/mL
Conc. Unit: ng/mL
Acq. Date: 3/23/2010
Acq. Time: 9:37:46 PM

Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 350.00 cps
Min. Peak Width: 0.00 sec
Smoother Width: 3 points
RT Window: 30.0 sec
Expected RT: 5.43 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.43 min
Area: 6.39e+005 counts
Height: 161825.079 cps
Start Time: 5.34 min
End Time: 5.69 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220119.wiff

Analysis Date: 23-MAR-10 22:09

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	100	92.9	93	
TATB	100	95	95	
tris(o-cresyl) phosphate	100	114	114	
2,4-Diamino-6-nitrotoluene	100	120	120	
2,6-Diamino-4-nitrotoluene	100	118	118	
3,4-Dinitrotoluene	50	49	98	

Recovery Limits:

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

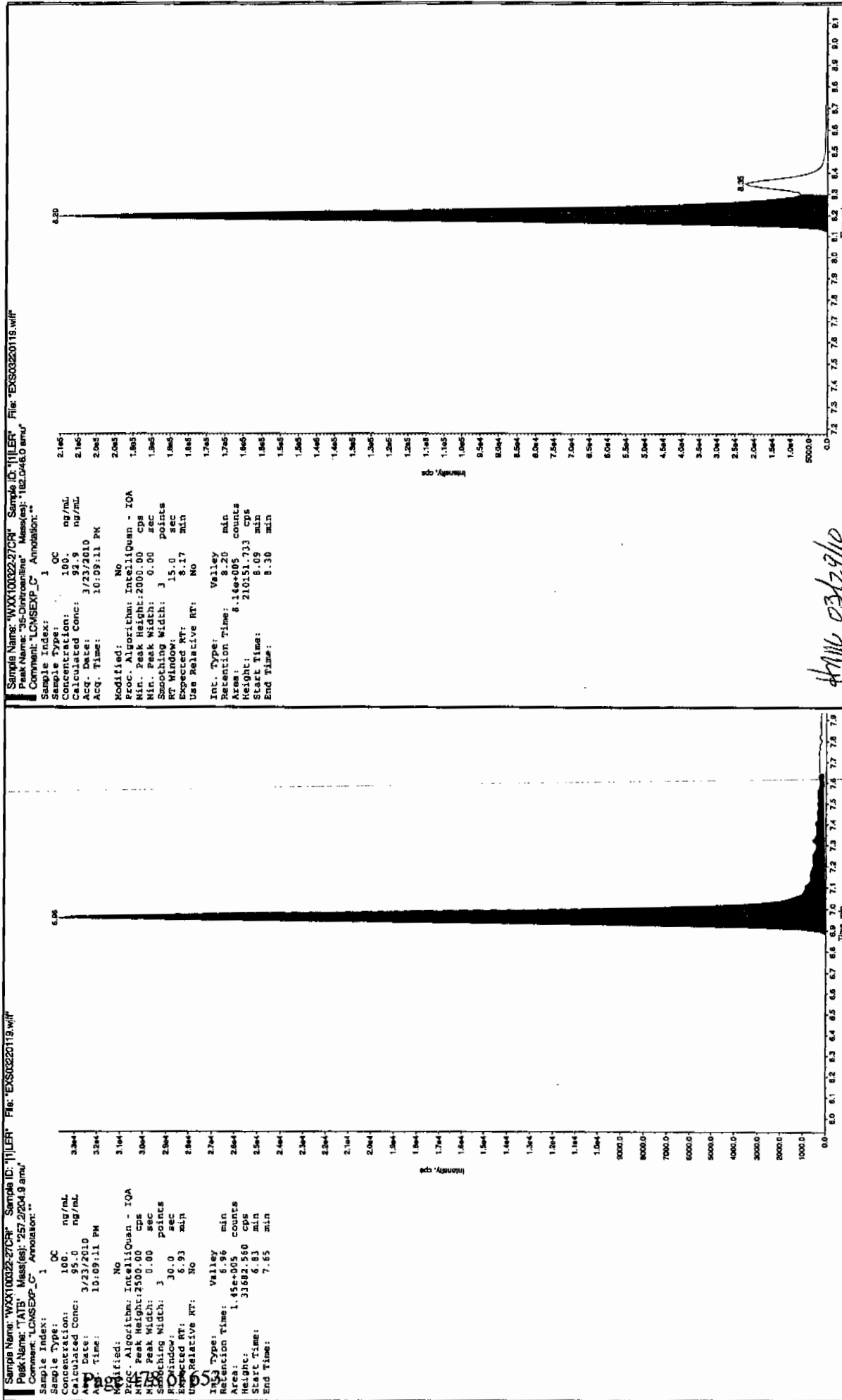
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

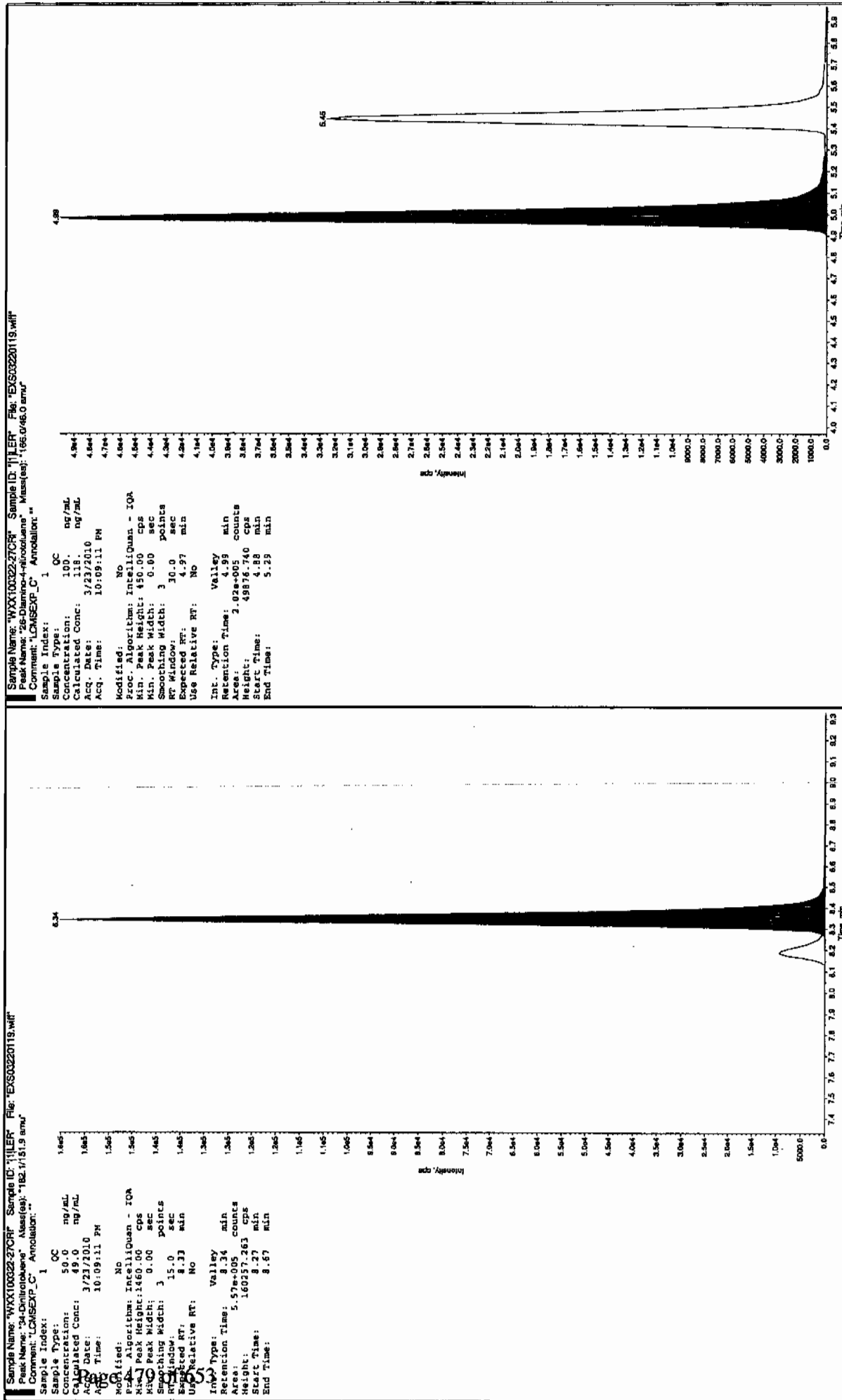
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31/23/10

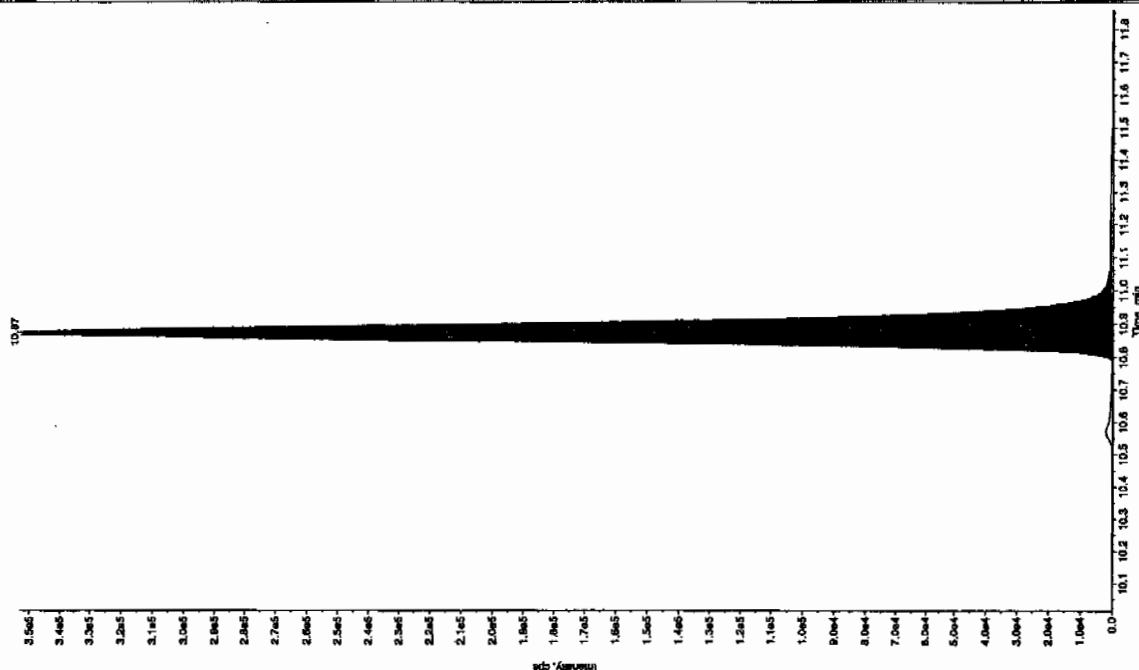


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSEXP#4



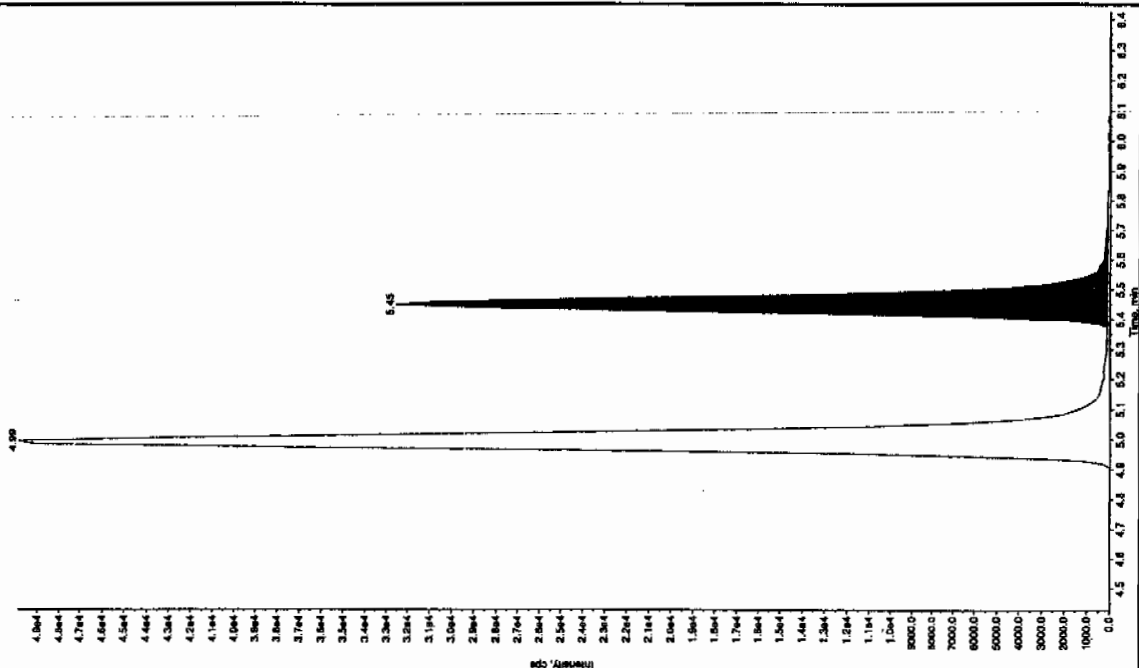
Sample Name: "WXX100322-27CR" Sample ID: "HLEP" File: "EXS03220119.will"
 Peak Name: "Relo-crawly phosphate" Mass(es): "355.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 100. ng/mL
 Calculated Conc: 114. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:09:11 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 3.00 sec
 Sampling Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.44e+006 counts
 Height: 352576.080 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100322-27CR" Sample ID: "HLEP" File: "EXS03220119.will"
 Peak Name: "24-Oxymino-6-nitrosoluan" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 100. ng/mL
 Calculated Conc: 120. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:09:11 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 3500.00 cps
 Min. Peak Width: 3.00 sec
 Sampling Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.45 min
 Area: 1.28e+005 counts
 Height: 32442.200 cps
 Start Time: 5.36 min
 End Time: 5.78 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03290013.wiff

Analysis Date: 29-MAR-10 12:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	109	109	
2,6-Diamino-4-nitrotoluene	100	90.5	91	
3,4-Dinitrotoluene	50	44.2	88	
3,5-Dinitroaniline	100	88.7	89	
TATB	100	102	102	
tris(o-cresyl) phosphate	100	109	109	

Recovery Limits:

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

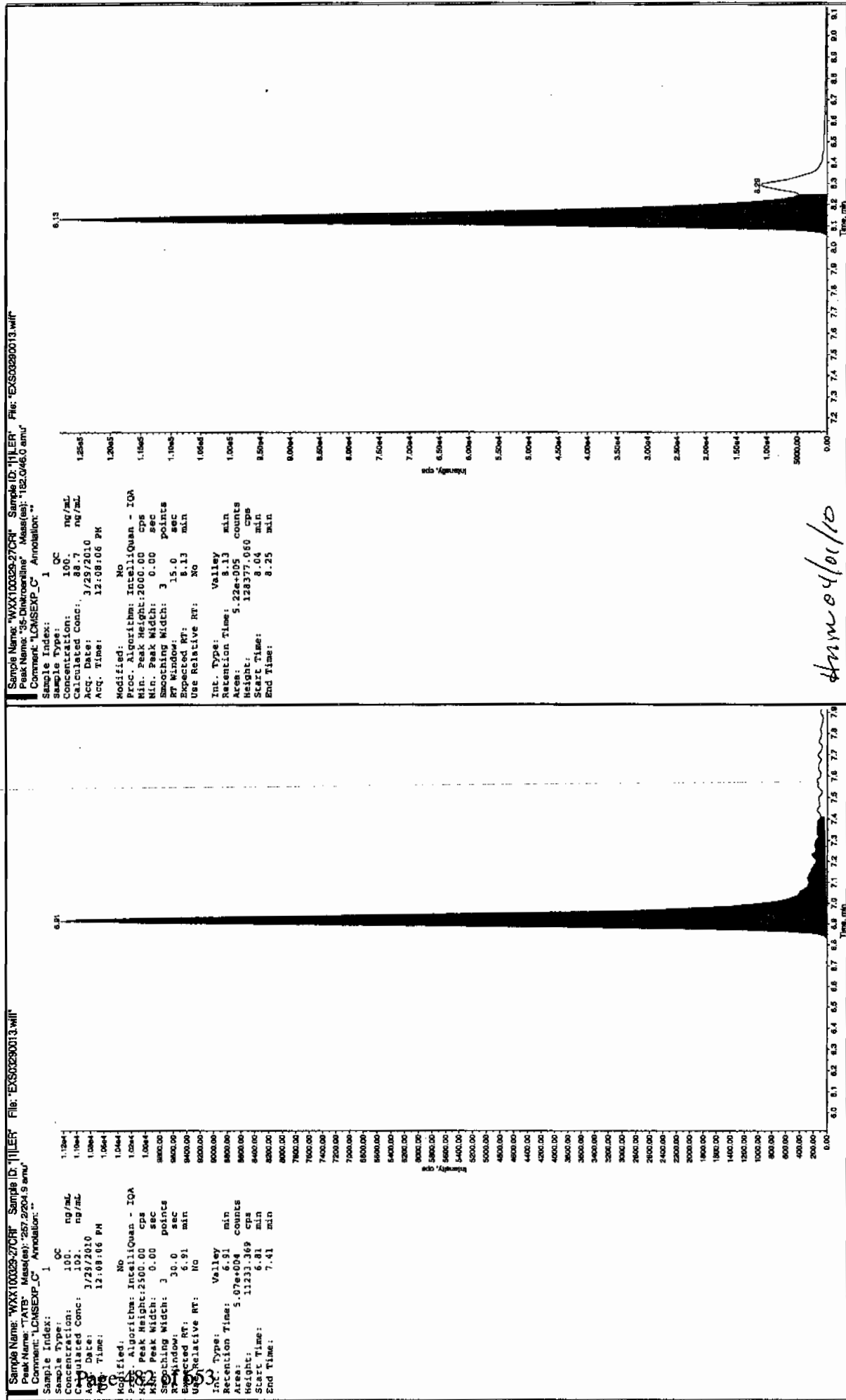
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

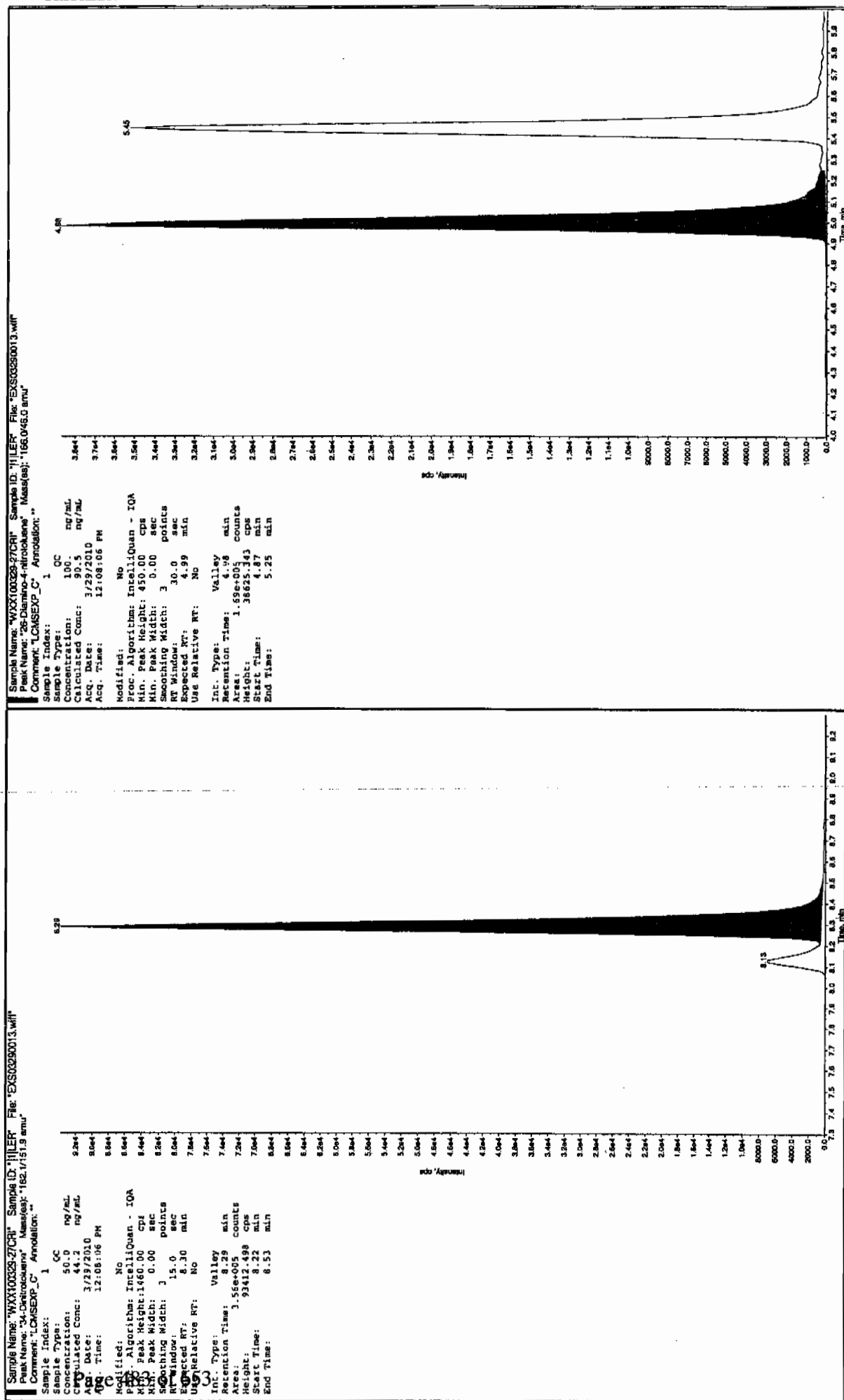
Column used to flag Recovery outside of Limits

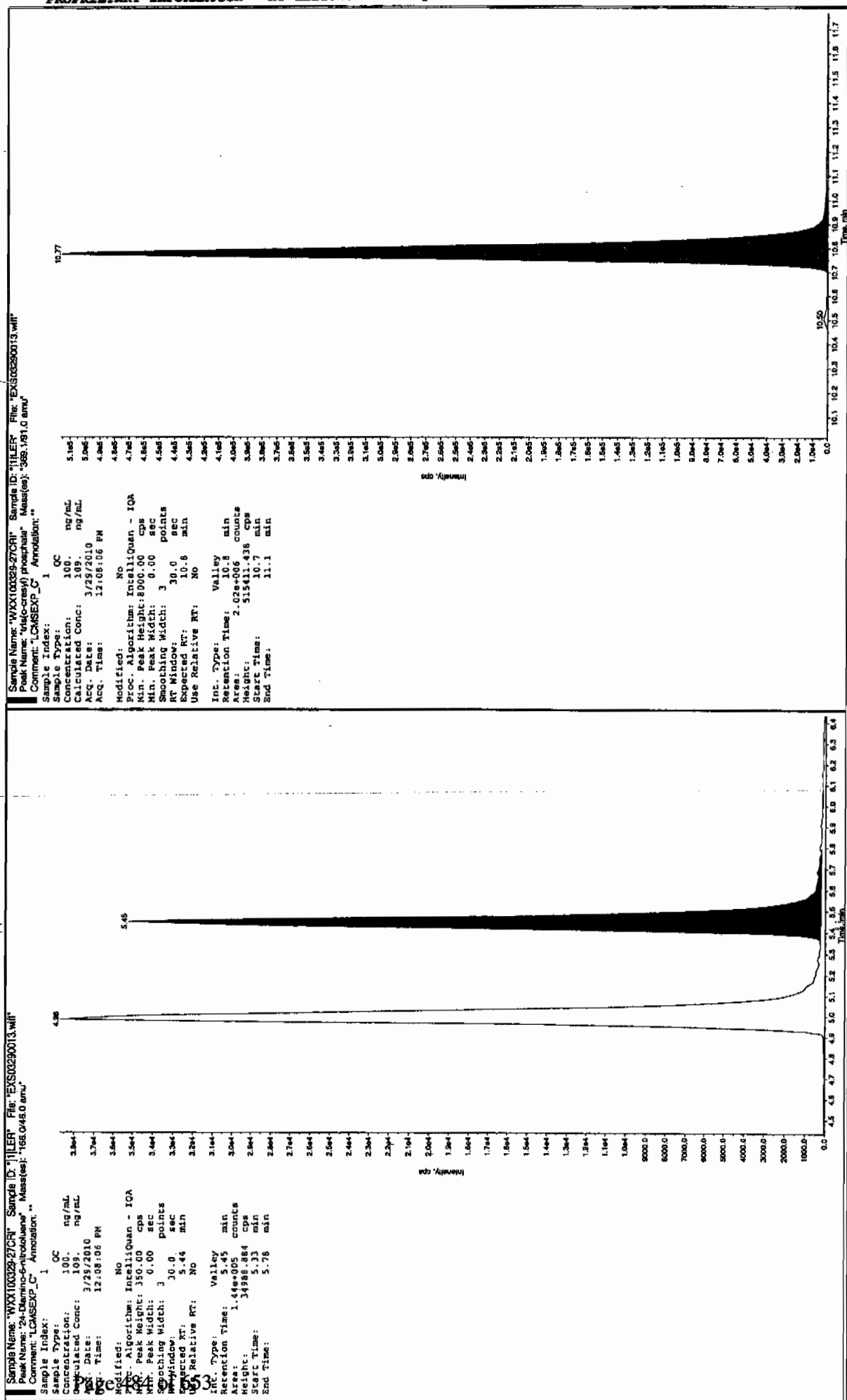
* Value outside of Recovery Limits

for 4/1/10



4/1/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03290017.wiff

Analysis Date: 29-MAR-10 13:10

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Diamino-4-nitrotoluene	500	519	104	
3,4-Dinitrotoluene	250	228	91	
3,5-Dinitroaniline	500	488	98	
TATB	500	468	94	
tris(o-cresyl) phosphate	500	511	102	
2,4-Diamino-6-nitrotoluene	500	518	104	

Recovery Limits:

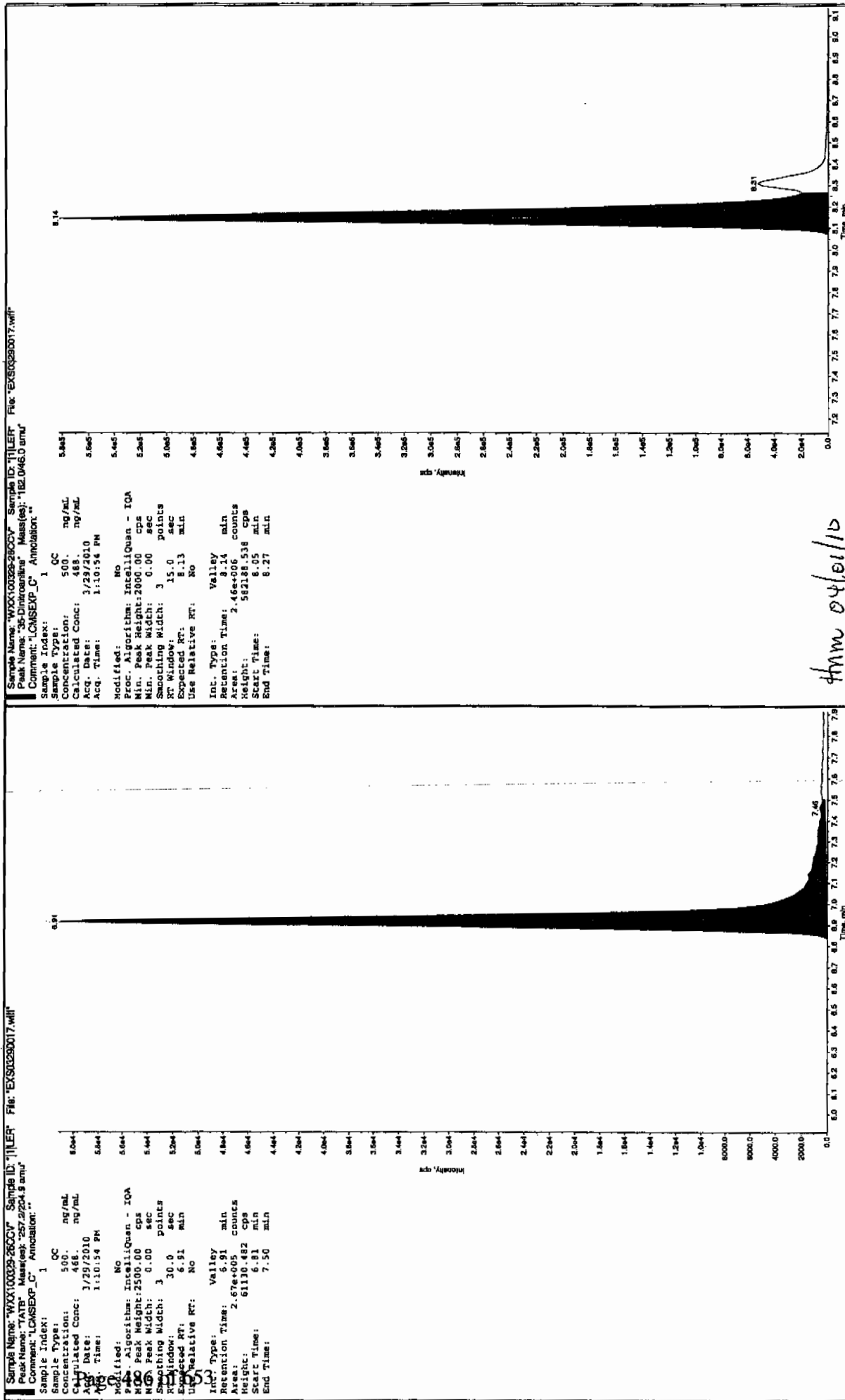
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

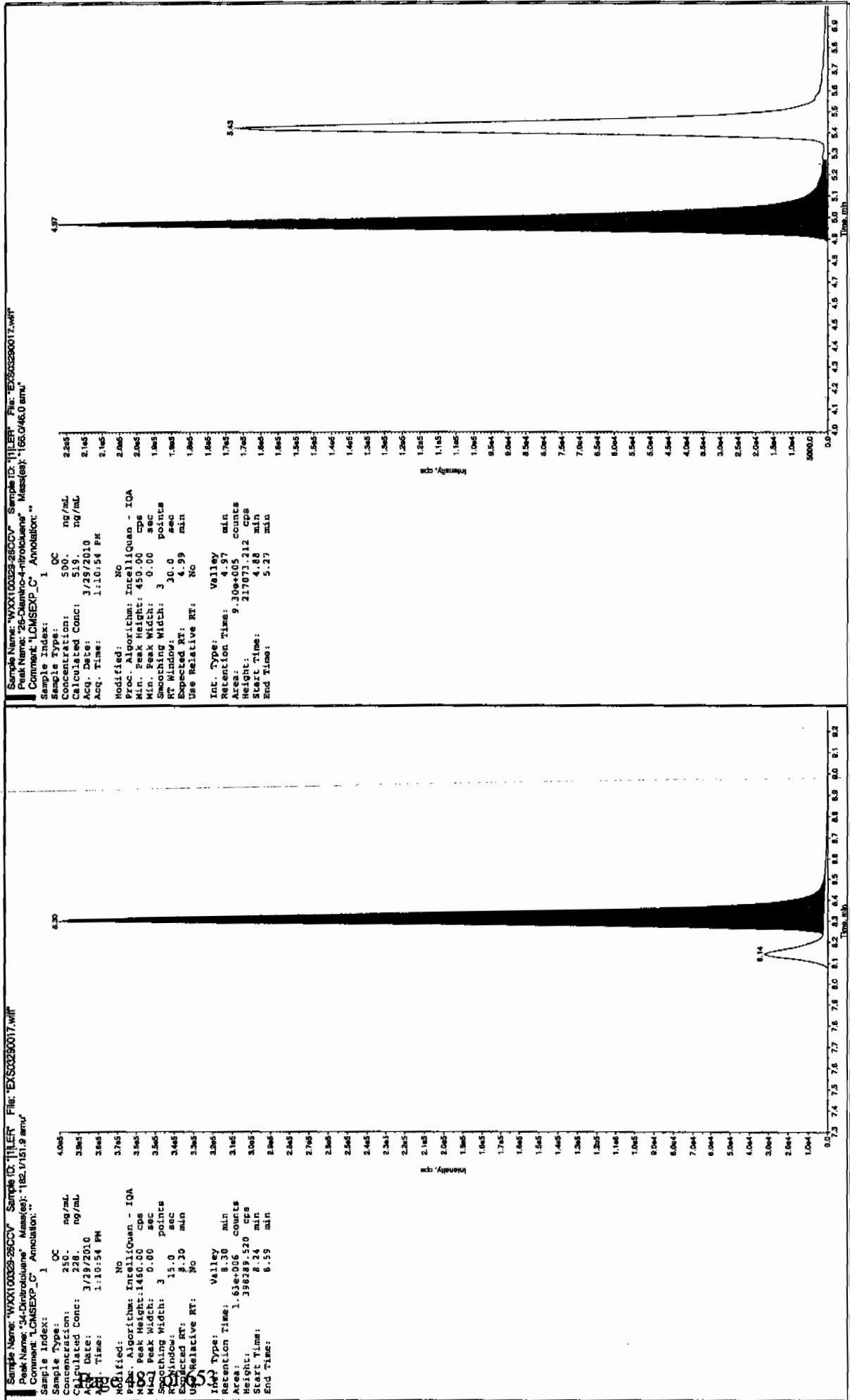
Column used to flag Recovery outside of Limits

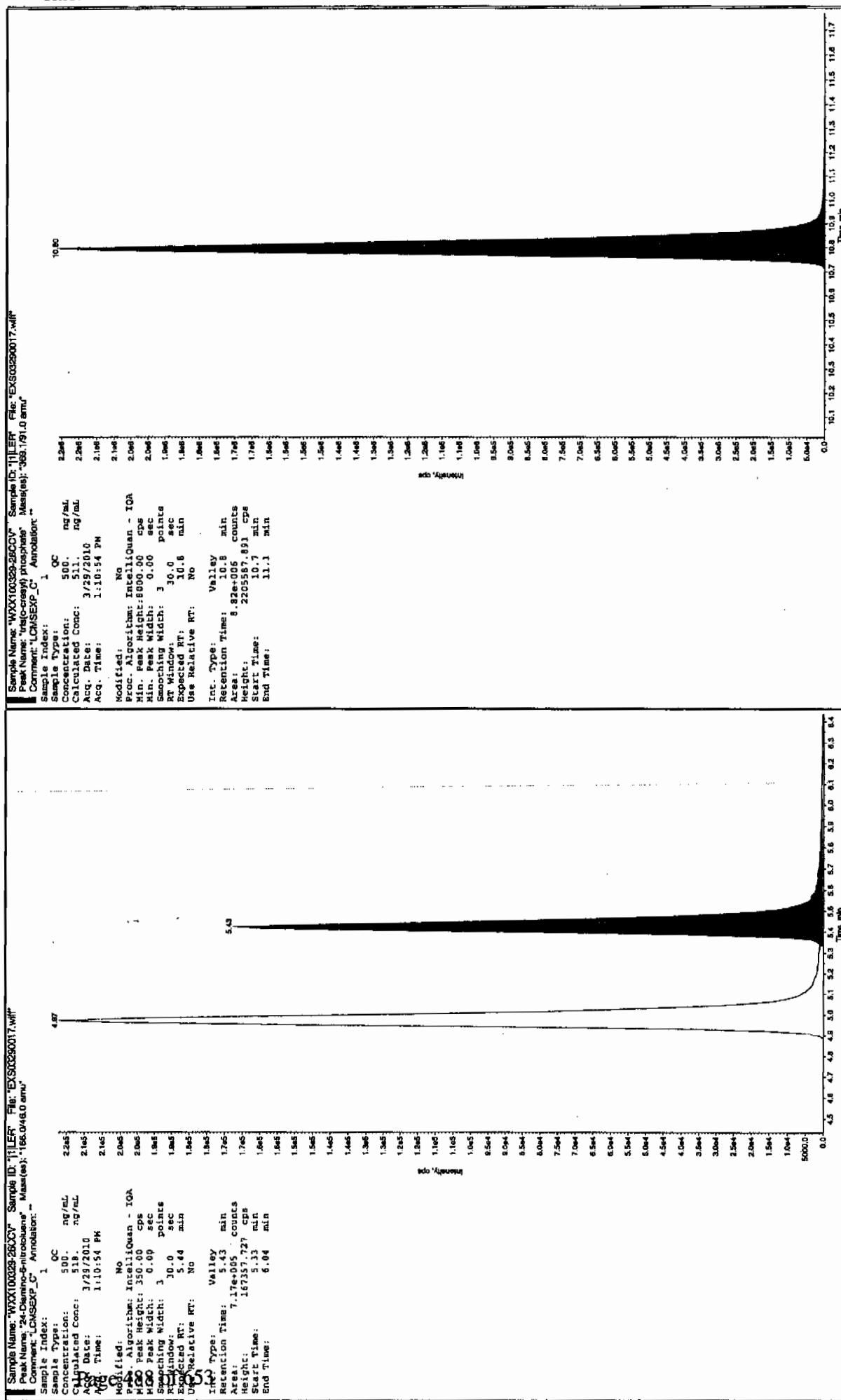
* Value outside of Recovery Limits

See 341110



4mm 04/01/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2012

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03290019.wiff

Analysis Date: 29-MAR-10 13:42

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	107	107	
2,6-Diamino-4-nitrotoluene	100	101	101	
3,4-Dinitrotoluene	50	42.9	86	
3,5-Dinitroaniline	100	89.9	90	
TATB	100	105	105	
tris(o-cresyl) phosphate	100	108	108	

Recovery Limits:

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

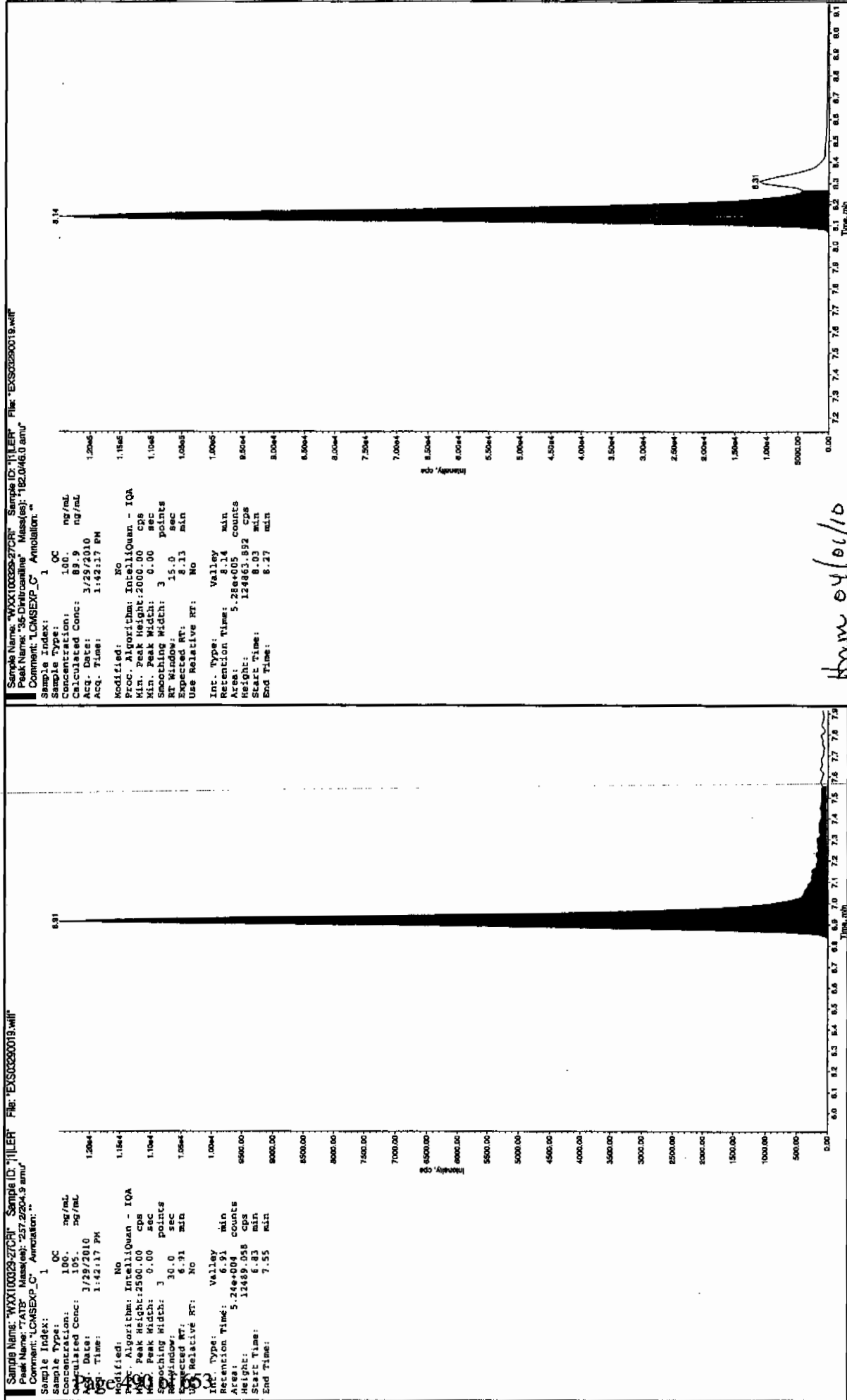
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

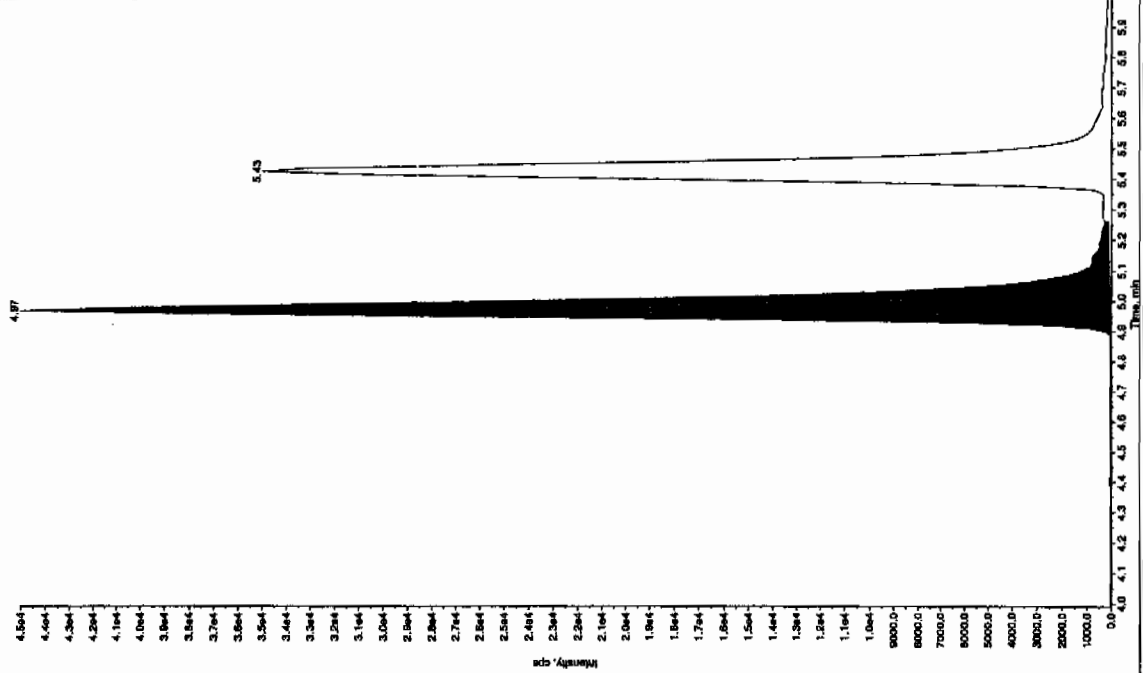
* Value outside of Recovery Limits

Run 4/1/10



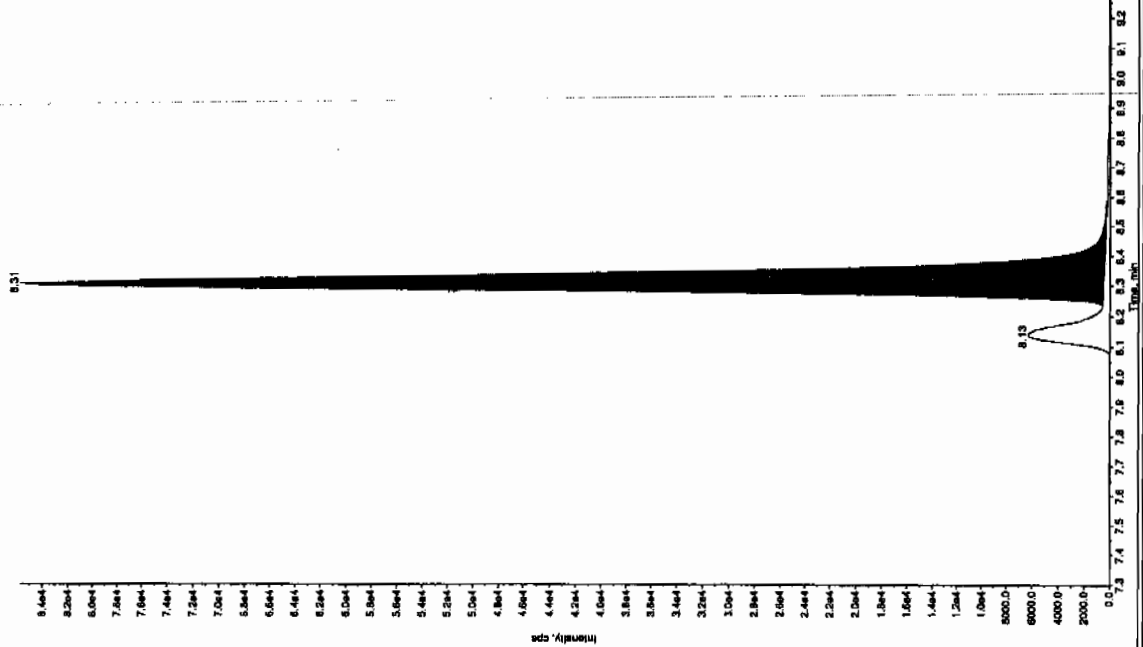
Sample Name: WXX10029-27CR Sample ID: 111ER File: EX00290018.wif
 Peak Name: 34-Dinitrobenzyl Mes(es): 166.046.0 amu
 Comment: LONSEN_C Annotation:

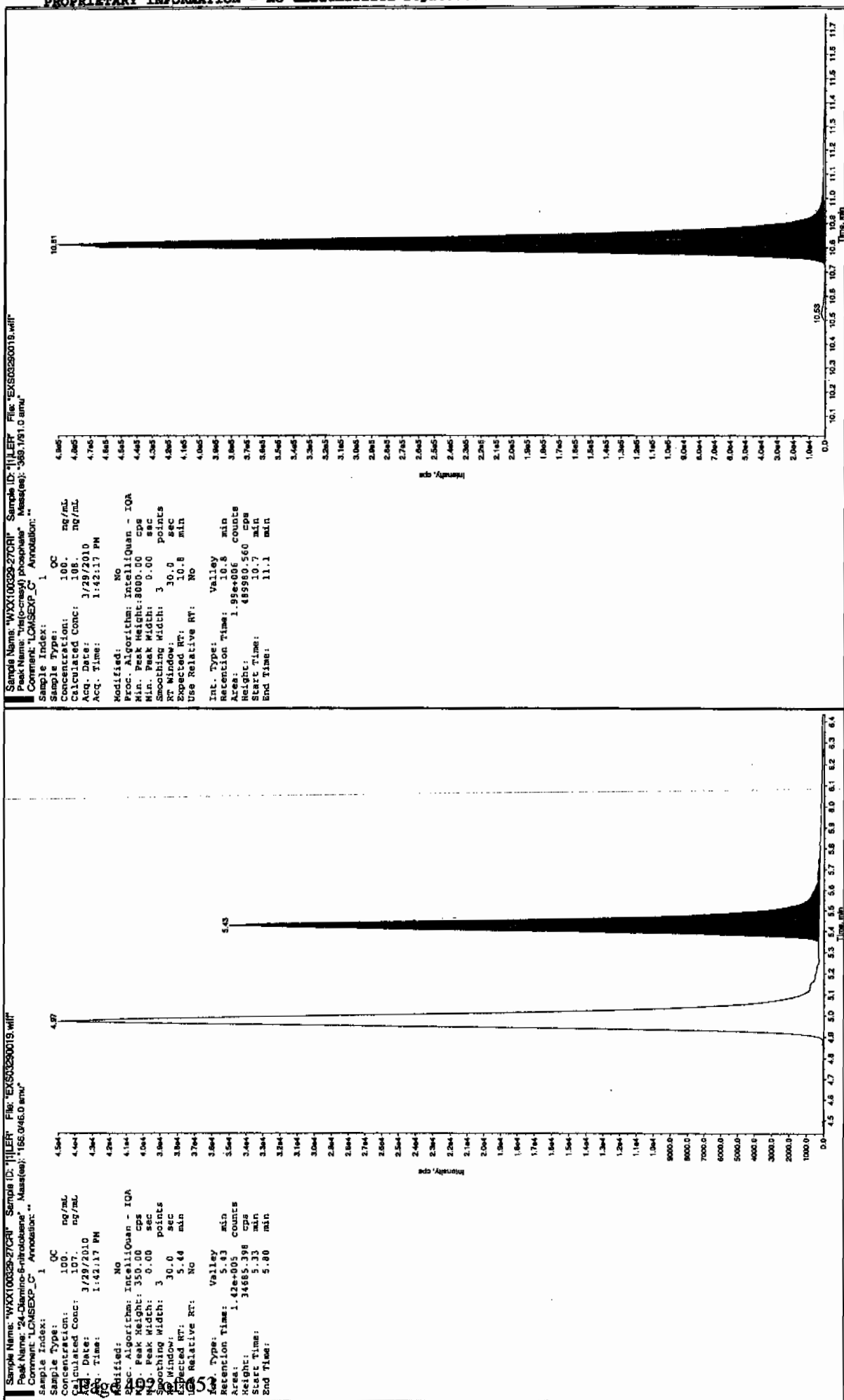
Sample Index: 1
 Sample Type: QC
 Concentration: 100 ng/mL
 Calculated Conc: 101 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 1:42:17 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.99 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Peak Height: 1.88e+007 counts
 Start Time: 4.84 min
 End Time: 5.26 min



Sample Name: WXX10029-27CR Sample ID: 111ER File: EX00290018.wif
 Peak Name: 34-Dinitrobenzyl Mes(es): 162.1715.9 amu
 Comment: LONSEN_C Annotation:

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 42.9 ng/mL
 Acq. Date: 3/29/2010
 Acq. Time: 1:42:17 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.30 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.31 min
 Peak Height: 85210.997 cps
 Start Time: 8.24 min
 End Time: 8.60 min





QUALITY CONTROL DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957701

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053631

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408049a

Date Analyzed: 09-APR-10 21:11

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 47 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408049a

Date: 09-Apr-2010

Time: 21:11:36

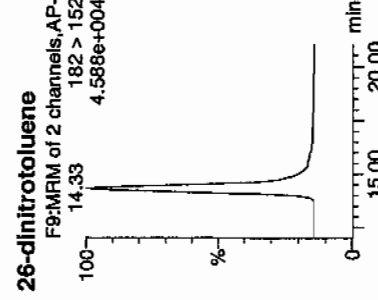
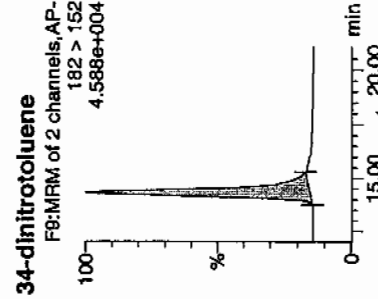
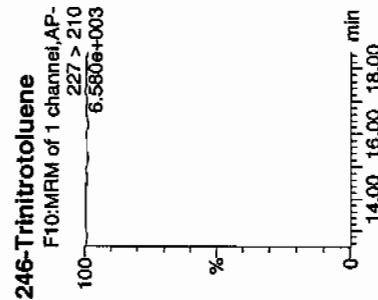
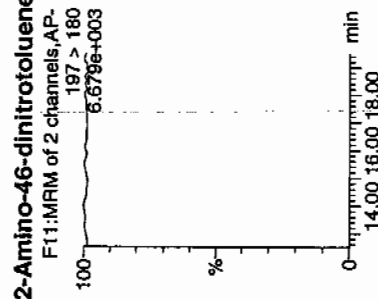
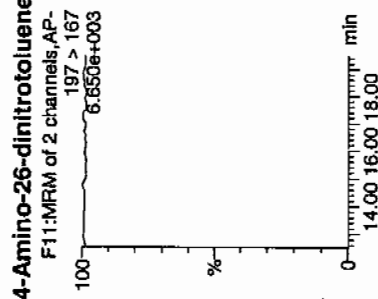
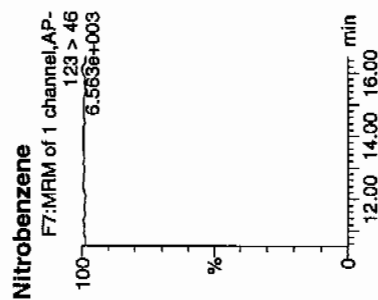
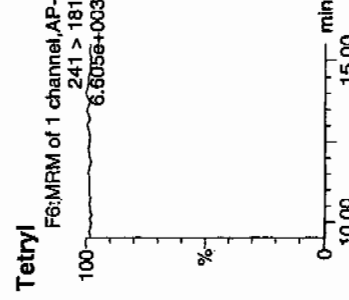
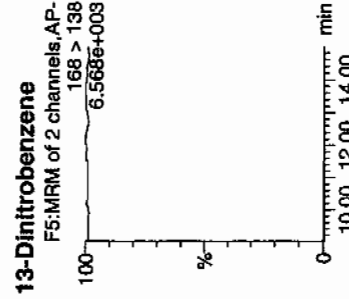
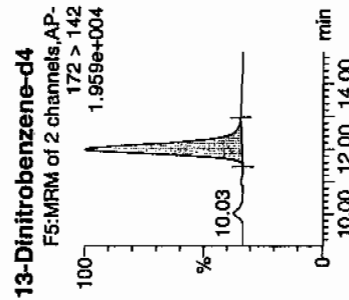
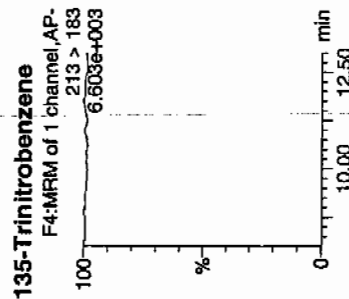
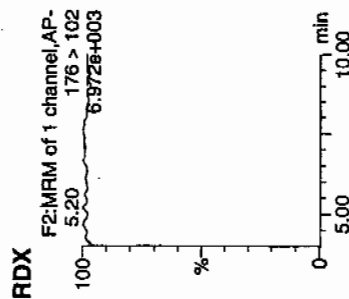
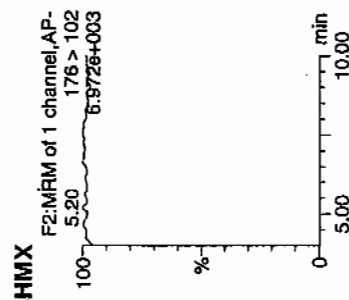
ID: 1202053631

Vial: 2:5,A

not
4/10/10

law 957702-18022 / MSB / 2-1

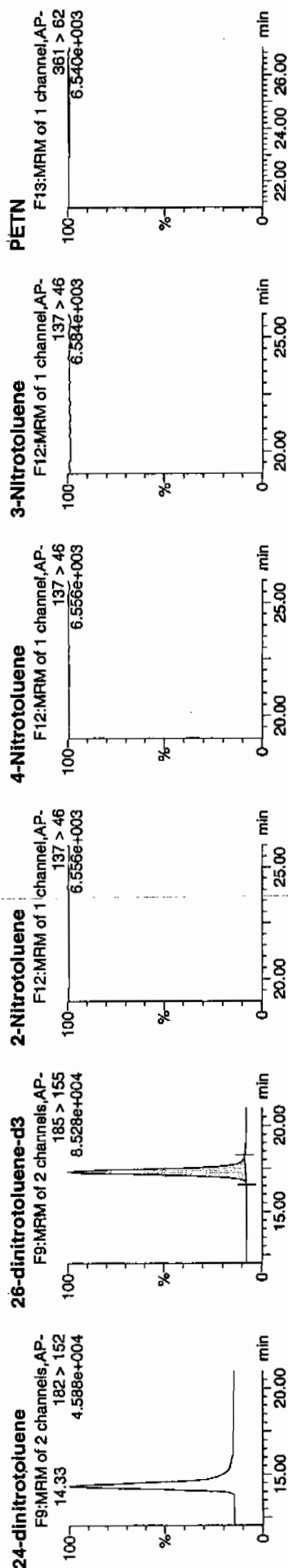
HMx



Ames 4/11/10

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957701

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053631

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220096.wiff

Date Analyzed: 23-MAR-10 16:08

Units: ug/kg

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

*Concentration =

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

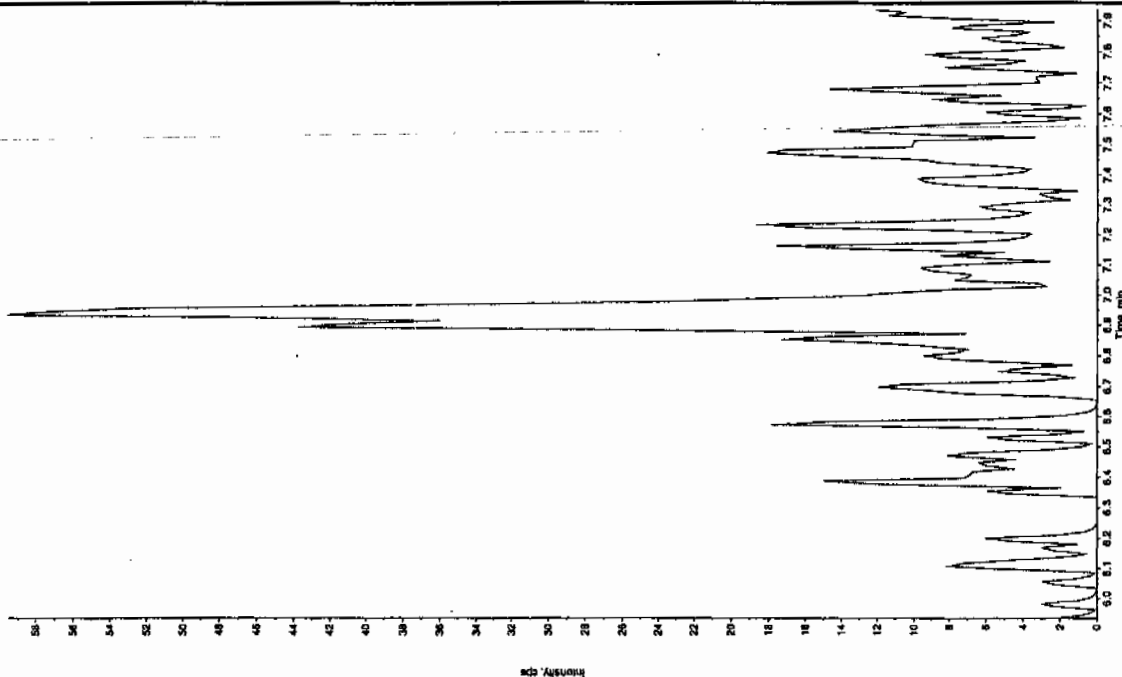
Jan 3/23/10

Sample Name: "1202053631" Sample ID: "9577020066.wif" File: "EX03020066.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:08:01 PM
 Modified: No

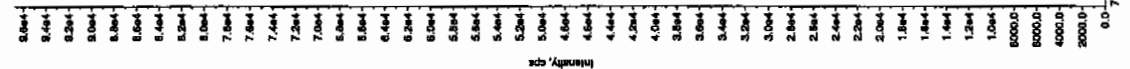


Sample Name: "1202053631" Sample ID: "9577020066.wif" File: "EX03020066.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:08:01 PM
 Modified: No

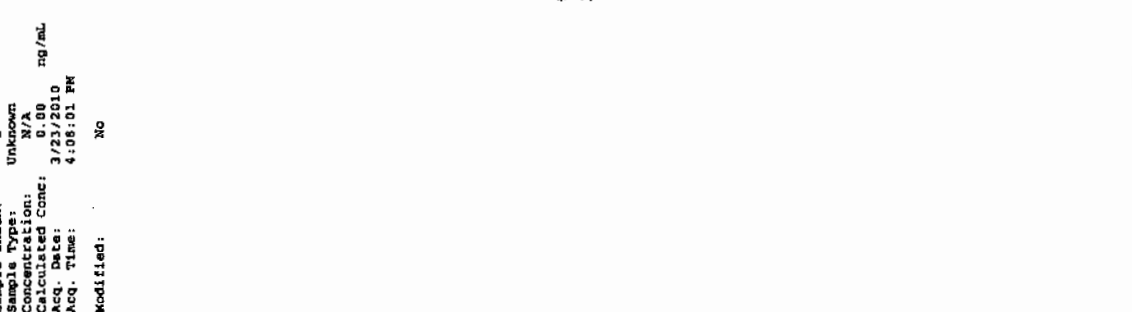


Jan 03/29/10

Sample Name: "120205331" Sample ID: "957702121" File: "EX03220036.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "156.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 mg/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:08:01 PM
 Modified: No

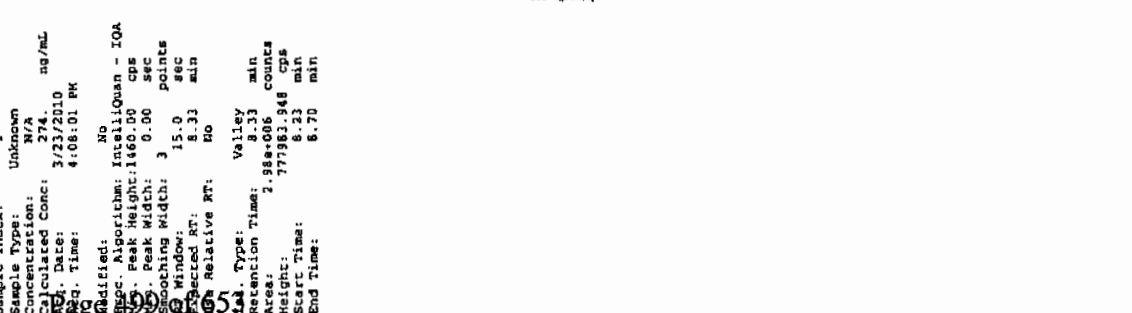
Intensity, cps



Sample Name: "120205331" Sample ID: "957702121" File: "EX03220036.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: "

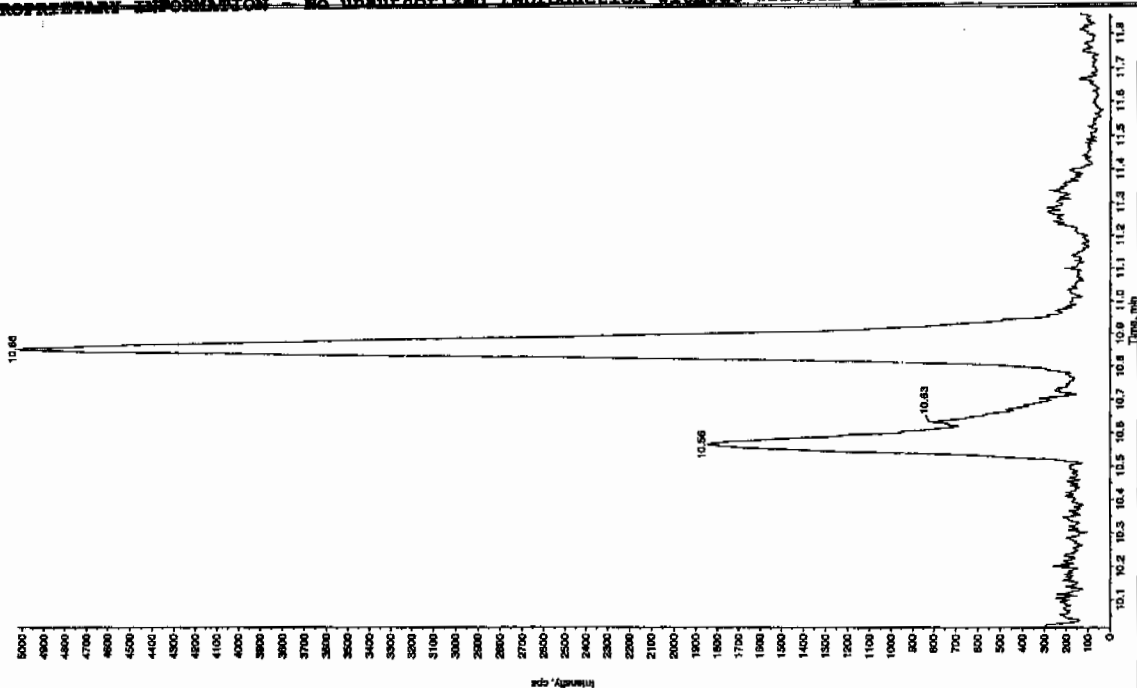
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010
 Acq. Date: 4:08:01 PM
 Acq. Time: 4:08:01 PM
 Modified: No
 Spec. Algorithm: IntelliQuan - IOA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 8.33 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.33 min
 Area: 2.98e+006 counts
 Height: 777983.948 cps
 Start Time: 8.23 min
 End Time: 8.70 min

Intensity, cps



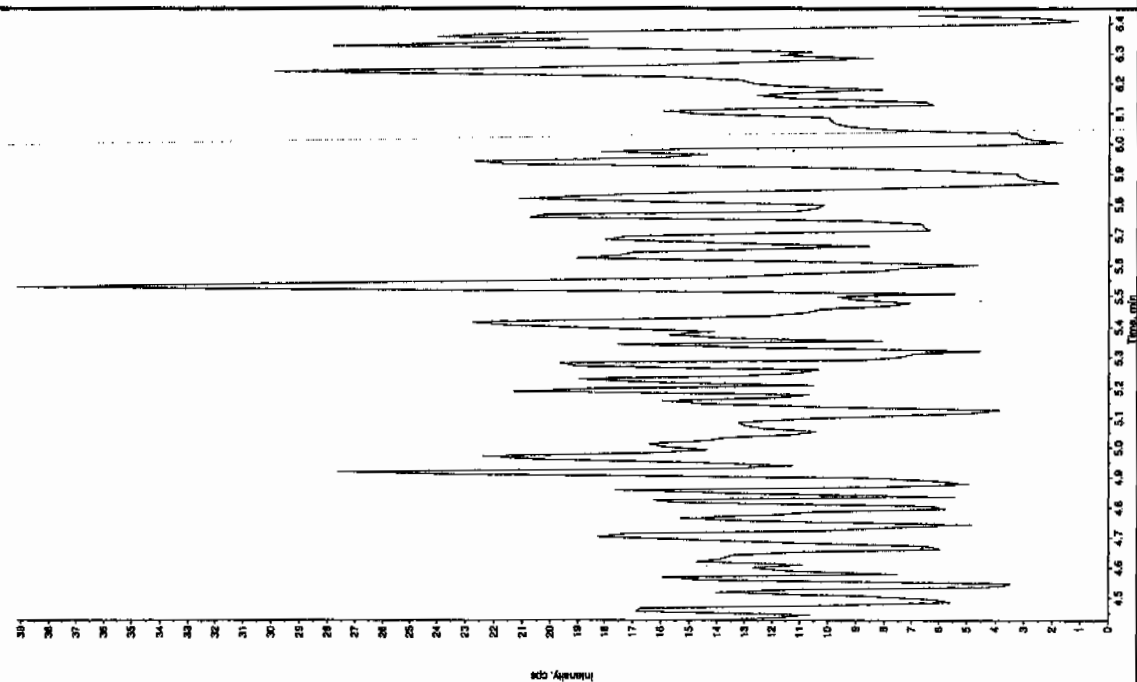
Sample Name: "120205331" Sample ID: "957702JLER" File: "EXS0220095.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.1/91.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:08:01 PM
 Modified: NO



Sample Name: "120205331" Sample ID: "957702JLER" File: "EXS0220095.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.0/46.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 4:08:01 PM
 Modified: NO



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957701

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053632

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408050a

Date Analyzed: 09-APR-10 21:41

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4970	
121-14-2	2,4-Dinitrotoluene	4440	
121-82-4	RDX	5650	
19406-51-0	4-Amino-2,6-dinitrotoluene	4820	
2691-41-0	HMX	5400	
35572-78-2	2-Amino-4,6-dinitrotoluene	5230	
479-45-8	Tetryl	1800	
606-20-2	2,6-Dinitrotoluene	4870	
78-11-5	PETN	5390	
88-72-2	o-Nitrotoluene	4410	
98-95-3	Nitrobenzene	4500	
99-08-1	m-Nitrotoluene	4200	
99-35-4	1,3,5-Trinitrobenzene	4240	
99-65-0	m-Dinitrobenzene	4990	
99-99-0	p-Nitrotoluene	4760	

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0408050a

Date: 09-Apr-2010

Time: 21:41:10

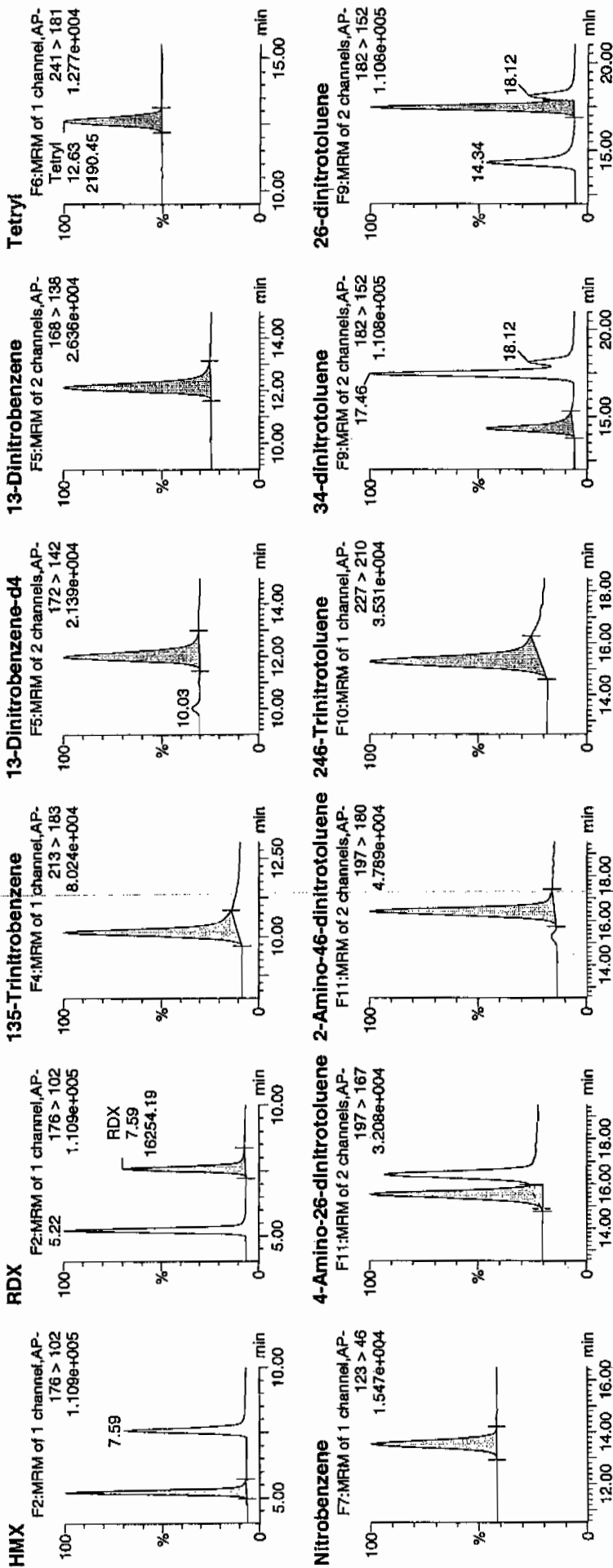
ID: 1202053632

Vial: 2:5,B

4/10/10

WAX 957702 / Souza / 2 / CES /

↓ TetraYL



Handwritten signature and date: 4/10/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957701

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053632

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220097.wiff

Date Analyzed: 23-MAR-10 16:23

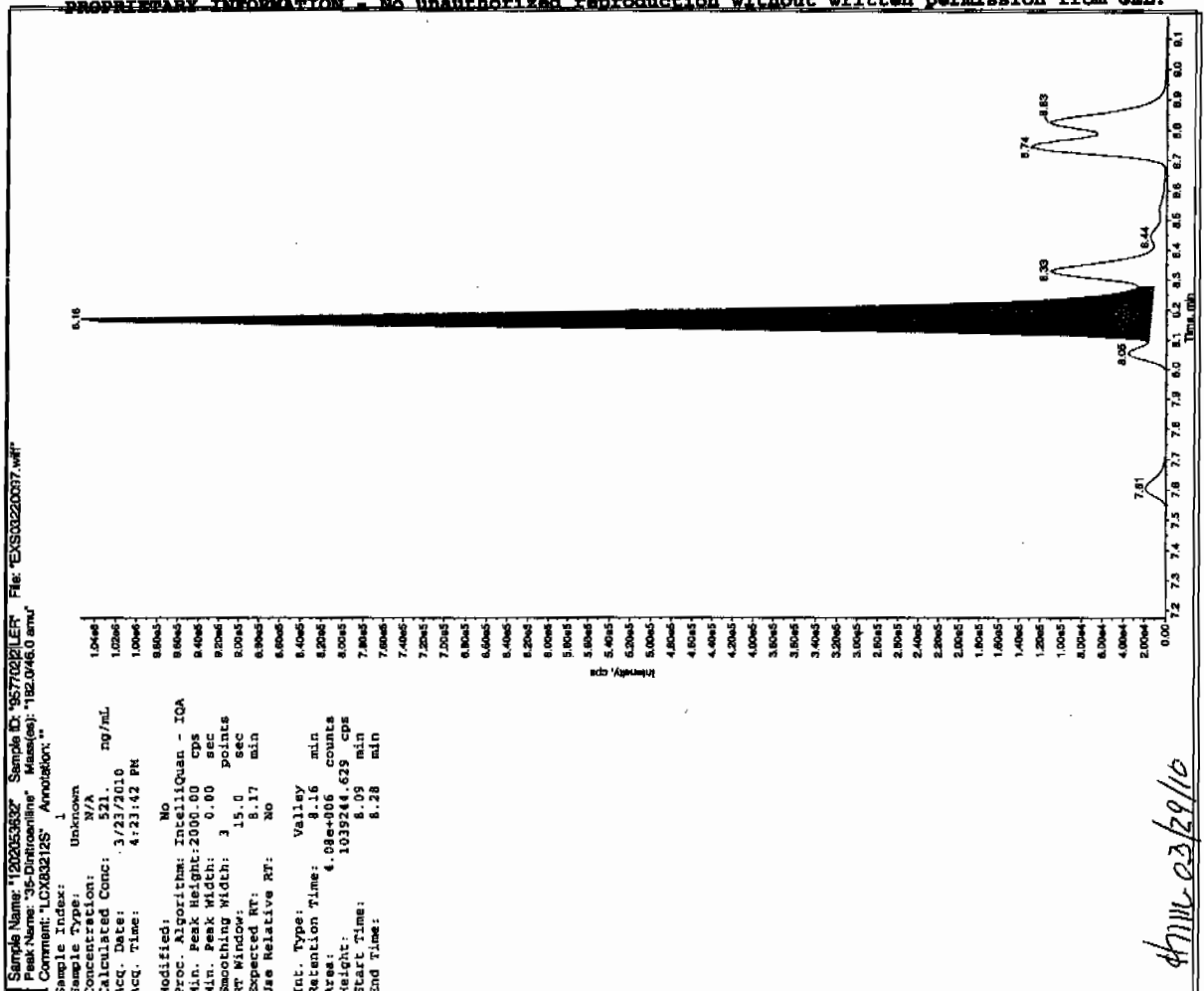
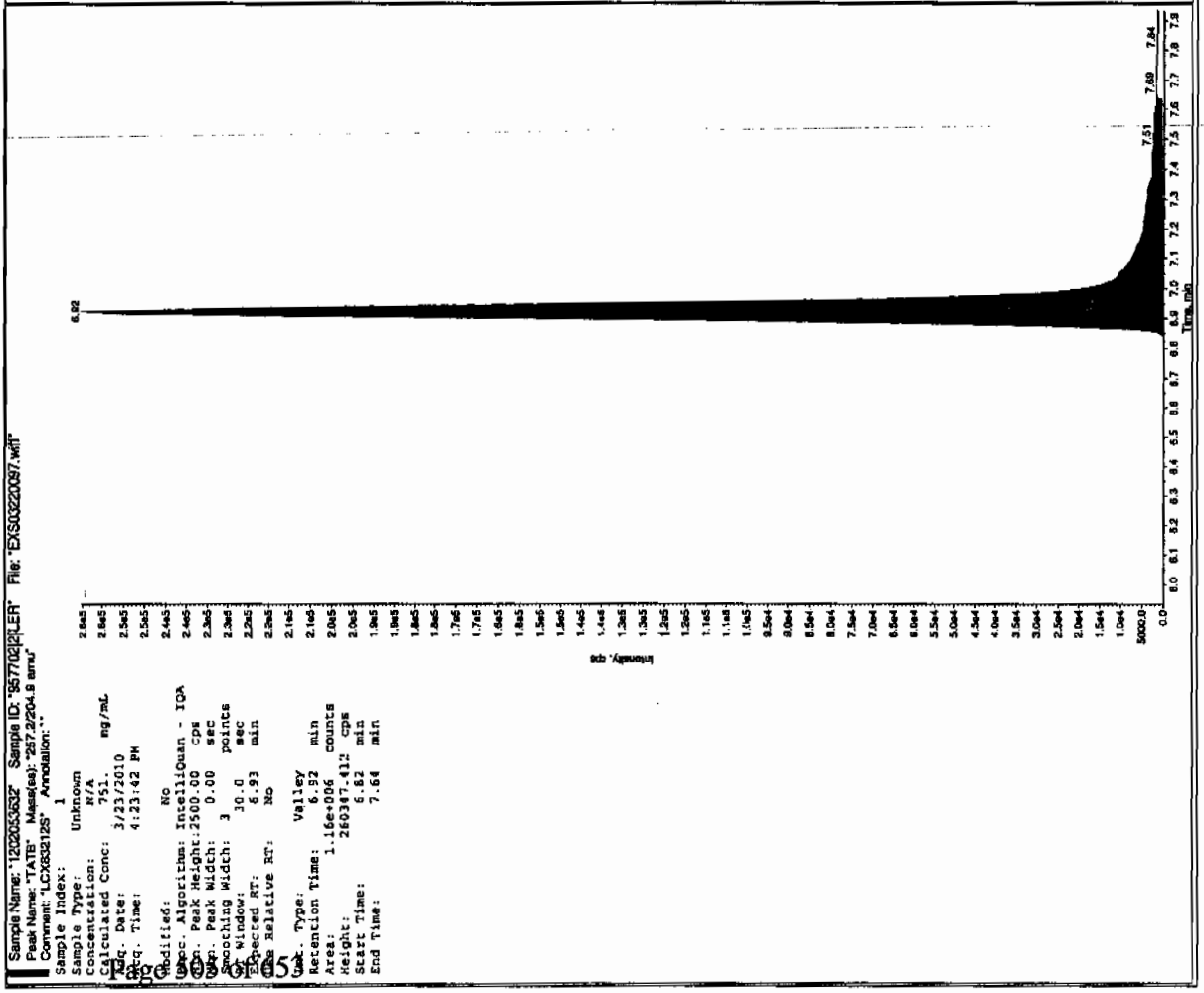
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	7510	
59229-75-3	2,6-Diamino-4-nitrotoluene	4700	
618-87-1	3,5-Dinitroaniline	5210	
6629-29-4	2,4-Diamino-6-nitrotoluene	4460	
78-30-8	tris(o-cresyl) phosphate	5420	

*Concentration =

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

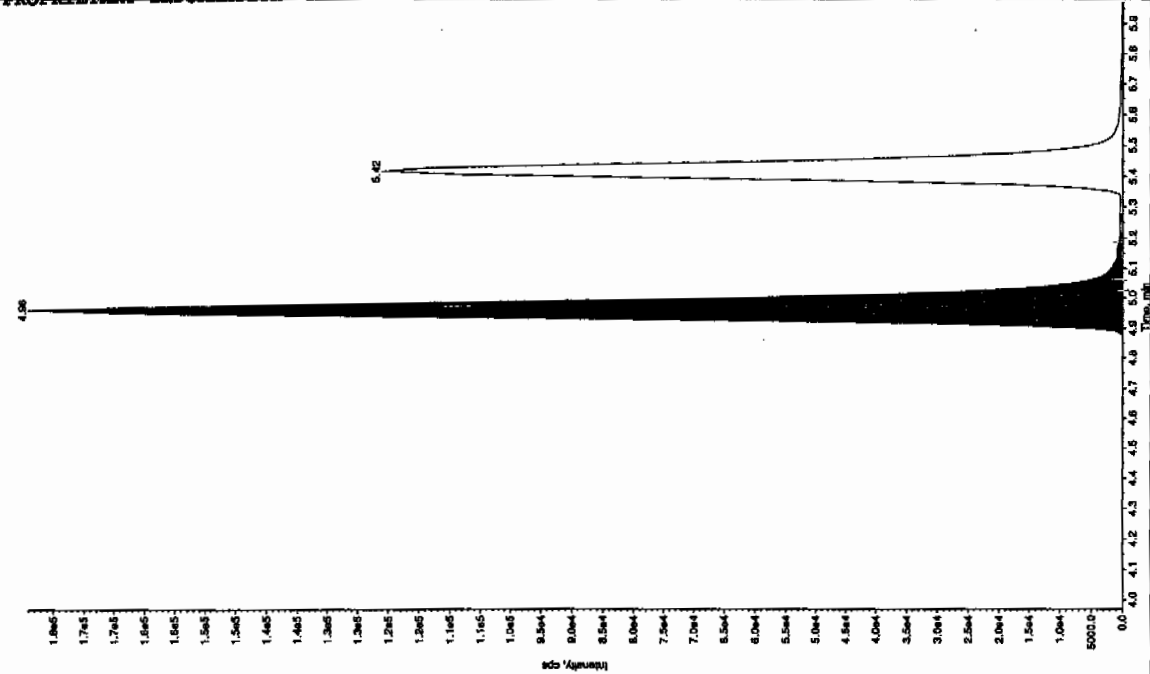
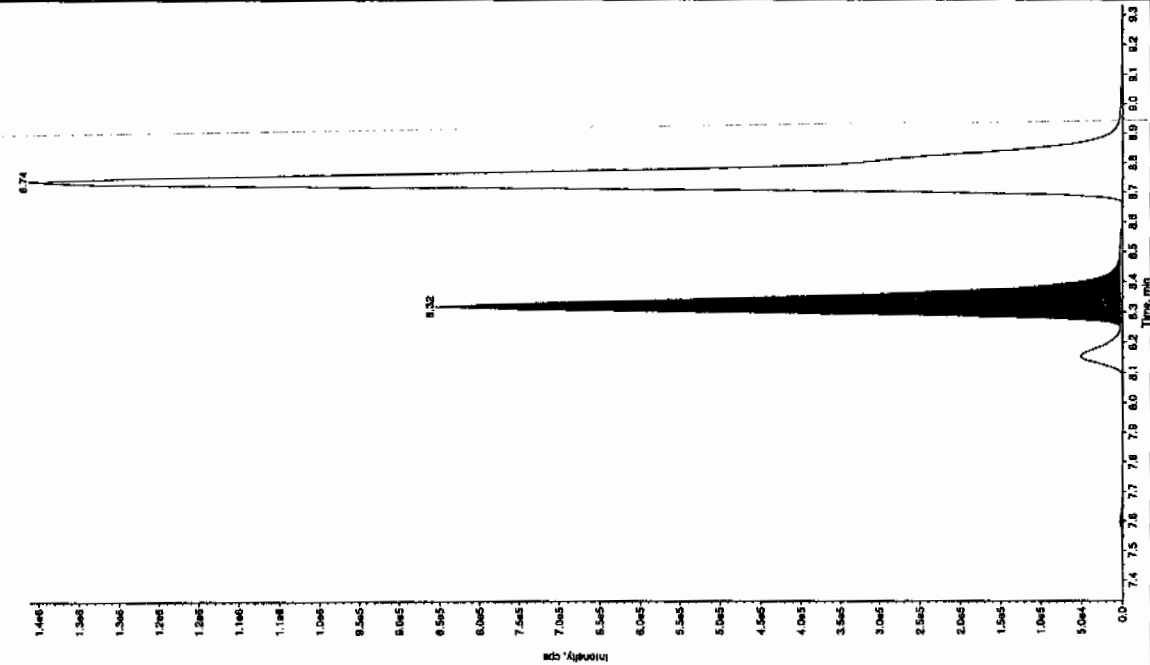
Jan 3/29/10



477702329/10

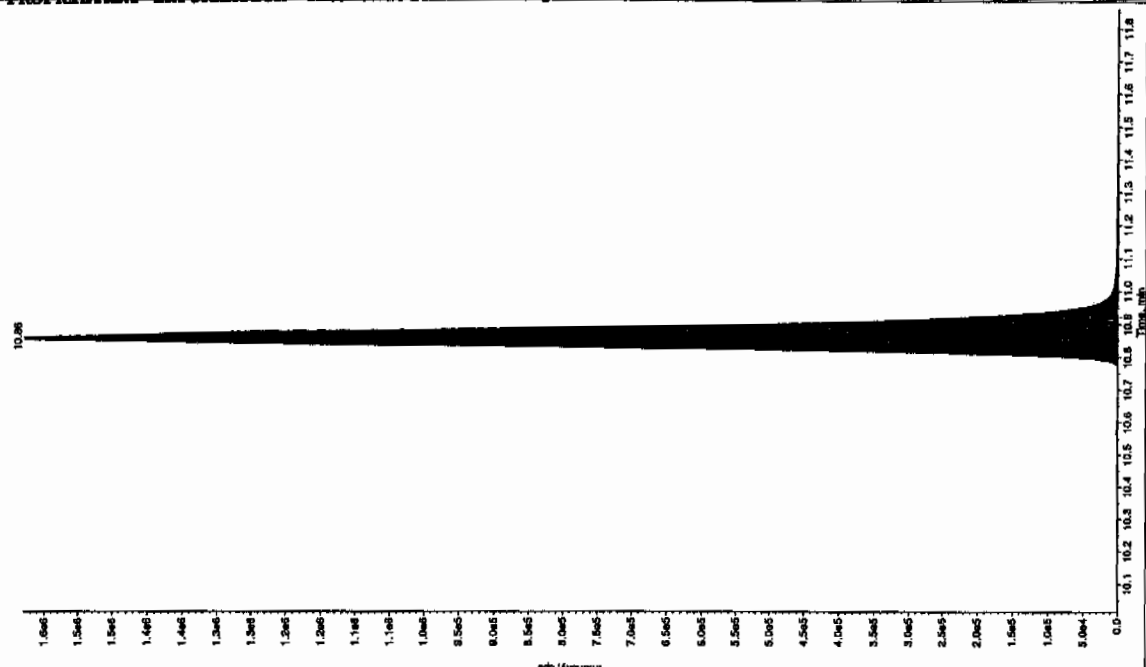
Sample Name: "1200053632" Sample ID: "95770241ER" File: "EXS03220037.wif"
 Peak Name: "34-Chlorocyclopentane" Mass(es): "162.1715.0 amu"
 Comment: "LDX832125" Approval: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 4:23:42 PM
 Acq. Time: 4:23:42 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: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 7.43e+005 counts
 Height: 178965.522 cps
 Start Time: 4.86 min
 End Time: 5.22 min



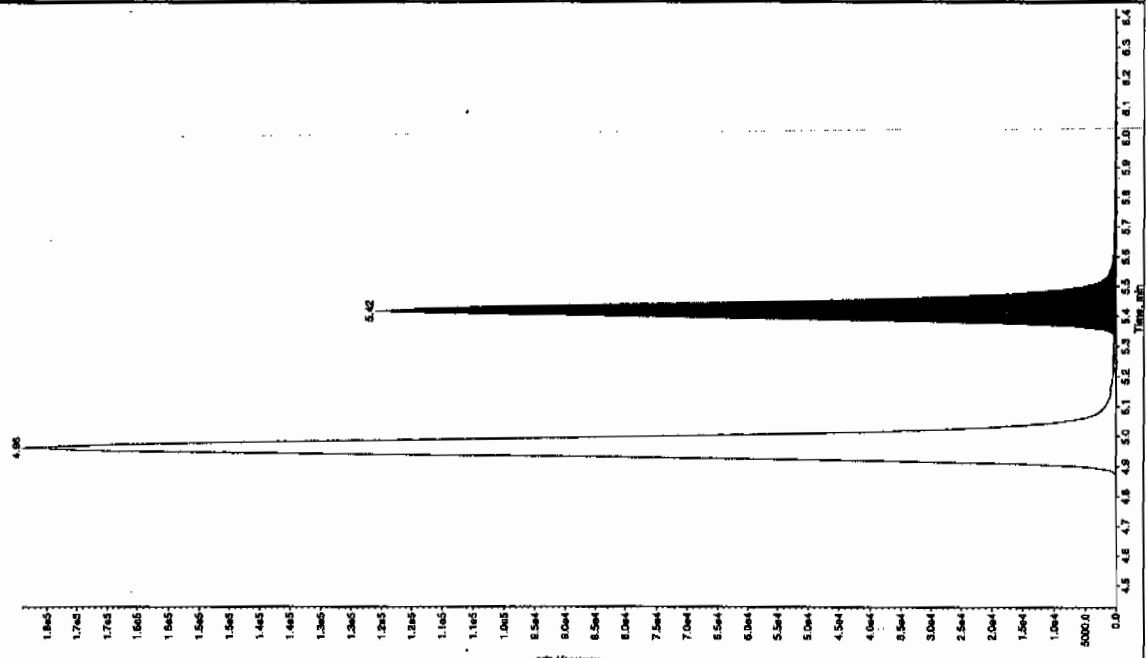
Sample Name: "1202033332" Sample ID: "957702121" File: "EXS03220097.wif"
 Peak Name: "tri(o-cresyl) phosphate" Mass(es): "359.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 4:23:42 PM
 Acq. Time: 4:23:42 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.40e+006 counts
 Height: 1579316.548 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "1202033332" Sample ID: "957702121" File: "EXS03220097.wif"
 Peak Name: "24-Diamino-6-nitrophenol" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 4:23:42 PM
 Acq. Time: 4:23:42 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: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 4.65e+005 counts
 Height: 120875.549 cps
 Start Time: 5.32 min
 End Time: 5.77 min



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019(247904001MS)

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053633

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408052a

Date Analyzed: 09-APR-10 22:40

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5300	
121-14-2	2,4-Dinitrotoluene	4880	
121-82-4	RDX	5160	
19406-51-0	4-Amino-2,6-dinitrotoluene	5040	
2691-41-0	HMX	4890	
35572-78-2	2-Amino-4,6-dinitrotoluene	5250	
479-45-8	Tetryl	3070	
606-20-2	2,6-Dinitrotoluene	4890	
78-11-5	PETN	5160	
88-72-2	o-Nitrotoluene	4330	
98-95-3	Nitrobenzene	4340	
99-08-1	m-Nitrotoluene	4100	
99-35-4	1,3,5-Trinitrobenzene	4610	
99-65-0	m-Dinitrobenzene	4710	
99-99-0	p-Nitrotoluene	4490	

*Concentration =

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

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Date: 09-Apr-2010

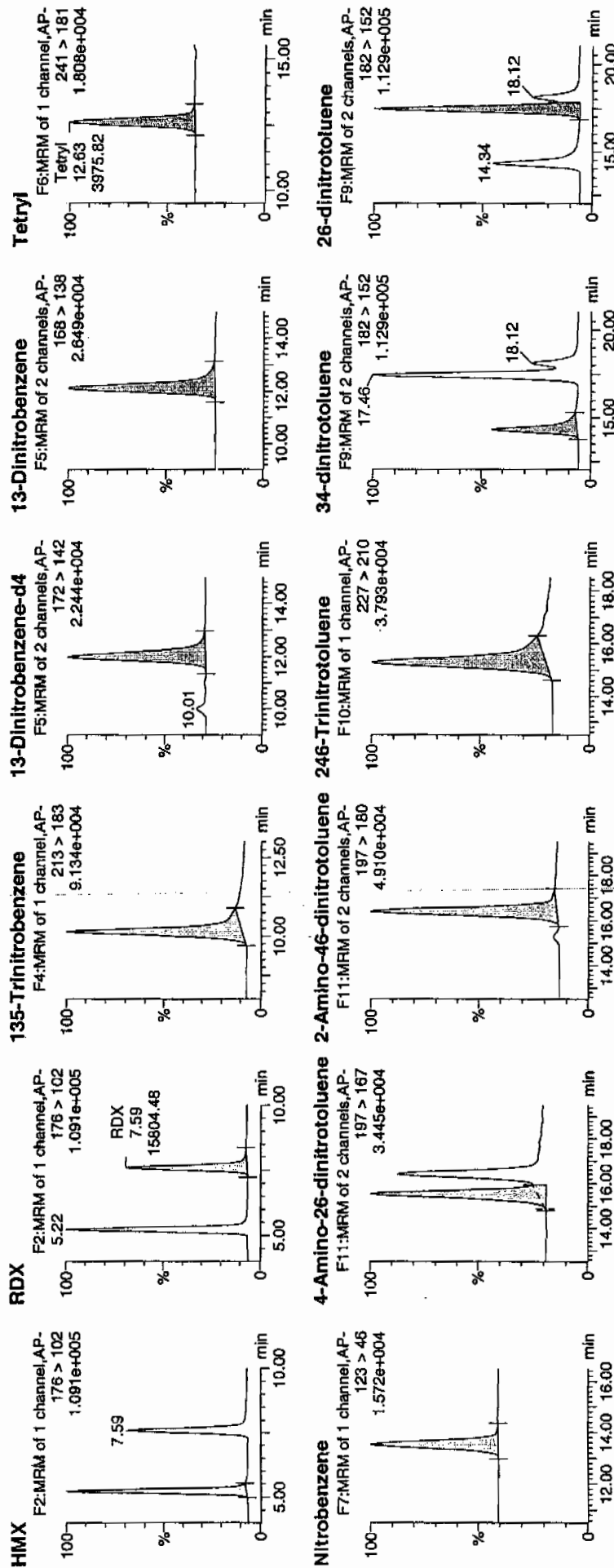
Time: 22:40:09

ID: 1202053633

Vial: 2:5,D

1047
4/14/10

LAUW (957702) / 247904001 us / 21



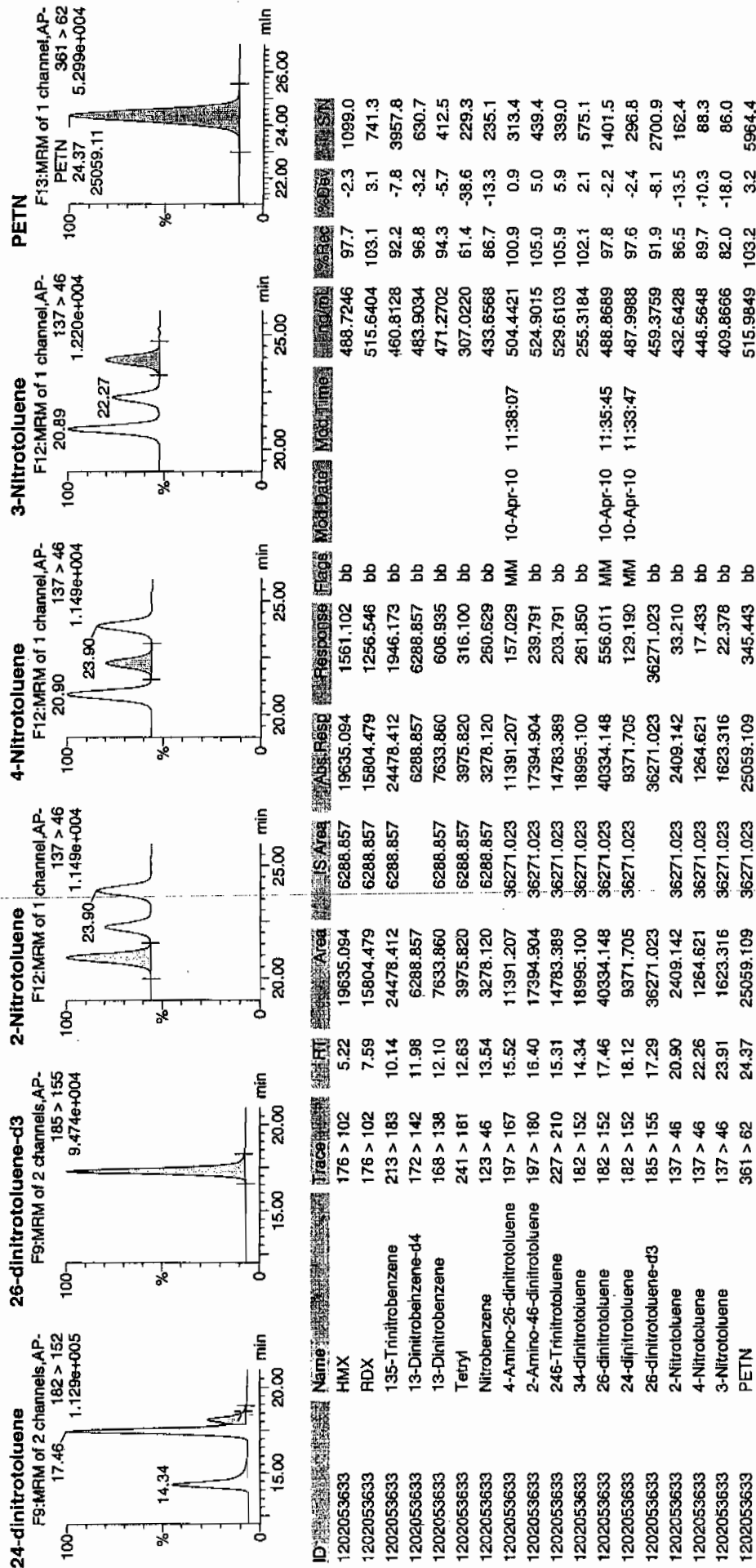
4/14/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 54 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019(247904001MS)

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053633

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220099.wiff

Date Analyzed: 23-MAR-10 16:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	8400	
59229-75-3	2,6-Diamino-4-nitrotoluene	4420	
618-87-1	3,5-Dinitroaniline	4540	
6629-29-4	2,4-Diamino-6-nitrotoluene	3210	
78-30-8	tris(o-cresyl) phosphate	5300	

*Concentration =

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

SLN 3/27/10

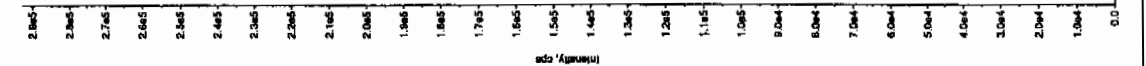
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Sample Name: "1202053633" Sample ID: "557702121" File: "EX50220059.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX532125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 840. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 4:55:07 PM
Modified: No
Proc. Algorithm: IntLiQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 30.0 points
RT Window: 6.93 min
Expected RT: No
Use Relative RT: No
Int. Type: Valley
Retention Time: 6.92 min
Area: 1.32e+006 counts
Height: 292732.849 cps
Start Time: 6.92 min
End Time: 8.20 min

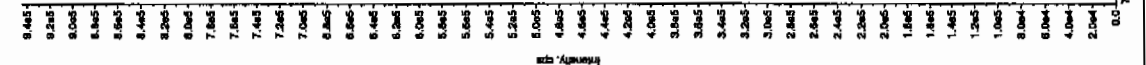


Sample Name: "1202053633" Sample ID: "557702121" File: "EX50220059.wif"

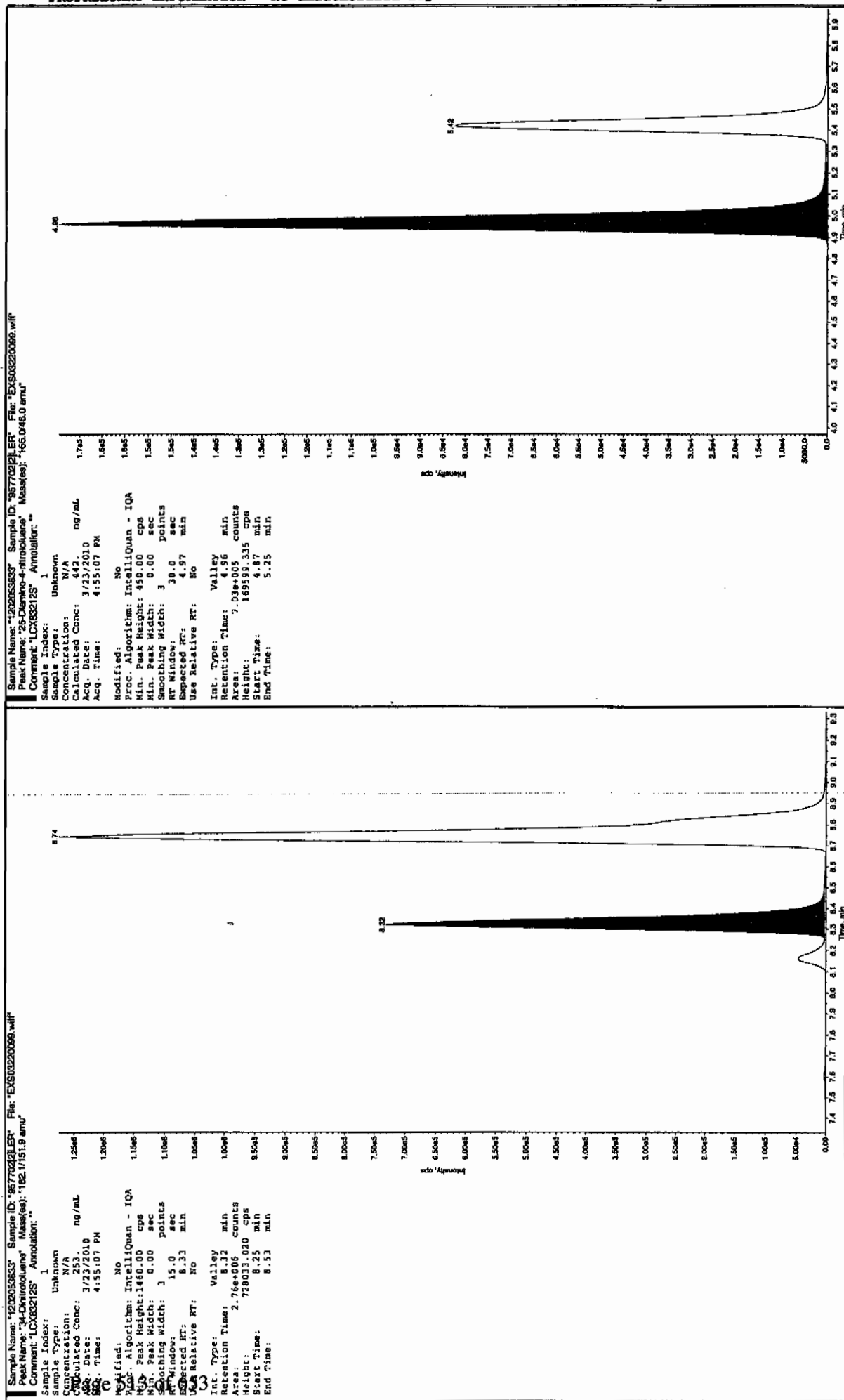
Peak Name: "35-Oximinoline" Mass(es): "182.046.0 amu"

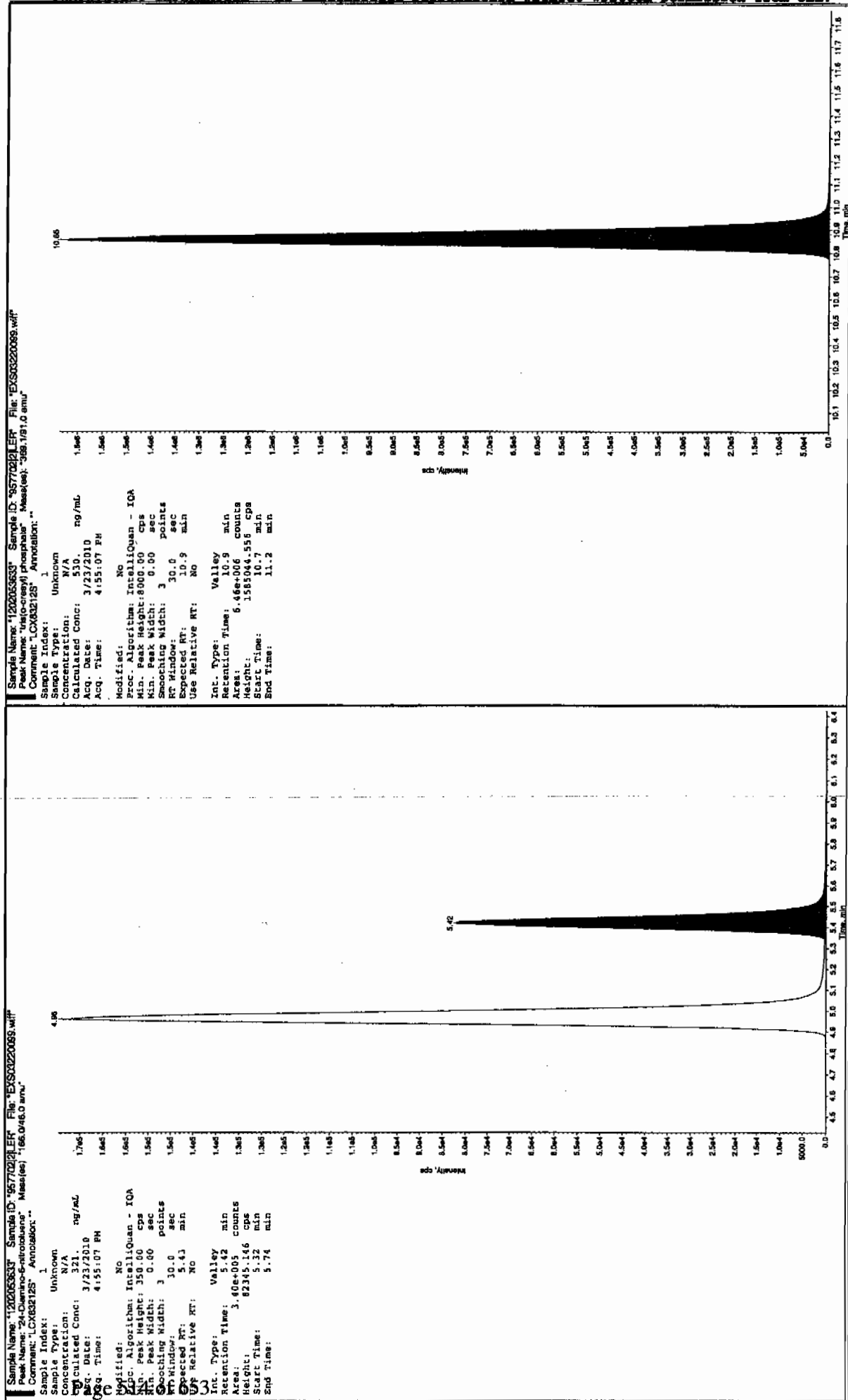
Comment: "LCX532125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 454. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 4:55:07 PM
Modified: No
Proc. Algorithm: IntLiQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 30.0 points
RT Window: 8.17 min
Expected RT: No
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.16 min
Area: 3.58e+006 counts
Height: 924799.683 cps
Start Time: 8.10 min
End Time: 8.28 min



How 03/29/10





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019(247904001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053634

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408053a

Date Analyzed: 09-APR-10 23:09

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5140	
121-14-2	2,4-Dinitrotoluene	5040	
121-82-4	RDX	5400	
19406--51-0	4-Amino-2,6-dinitrotoluene	4900	
2691-41-0	HMX	5140	
35572-78-2	2-Amino-4,6-dinitrotoluene	5430	
479-45-8	Tetryl	2540	
606-20-2	2,6-Dinitrotoluene	5000	
78-11-5	PETN	5230	
88-72-2	o-Nitrotoluene	4290	
98-95-3	Nitrobenzene	4530	
99-08-1	m-Nitrotoluene	4040	
99-35-4	1,3,5-Trinitrobenzene	4730	
99-65-0	m-Dinitrobenzene	4860	
99-99-0	p-Nitrotoluene	4440	

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0408053a

Date: 09-Apr-2010

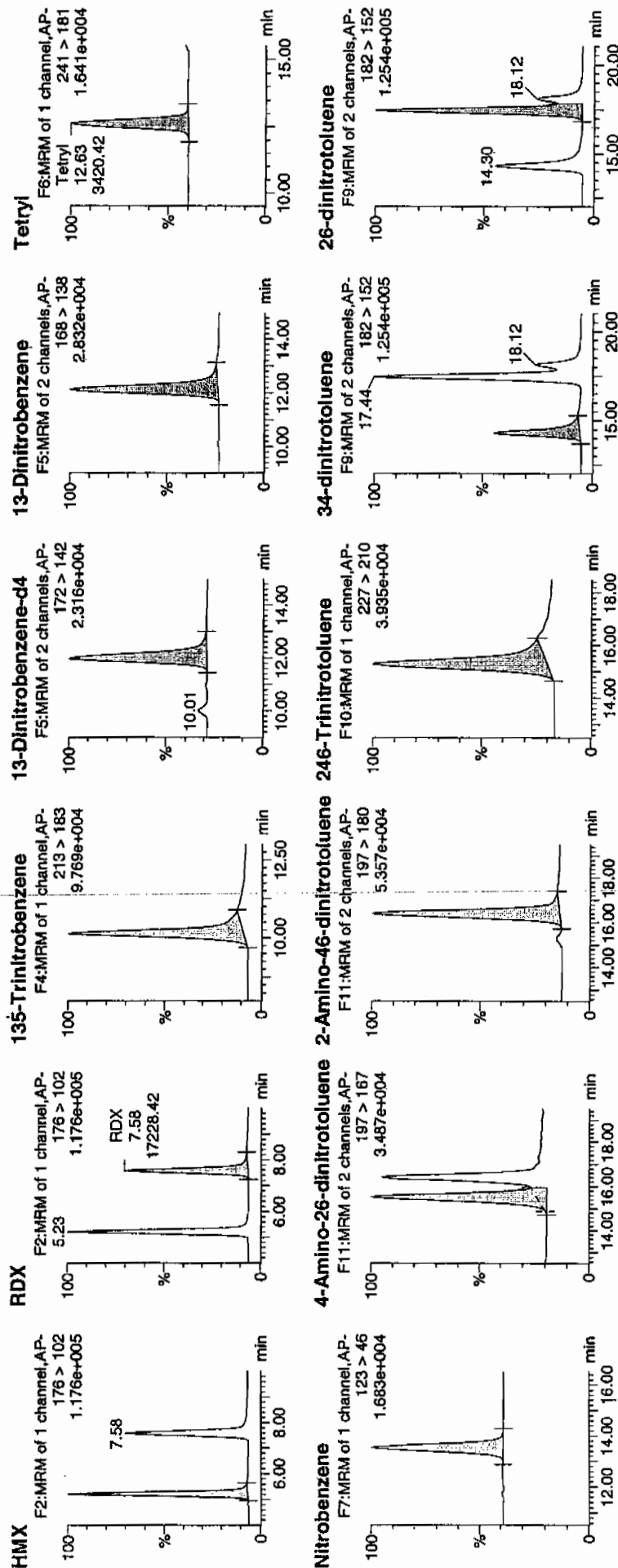
Time: 23:09:38

ID: 1202053634

Vial: 2:5,E

1077
4/10/10

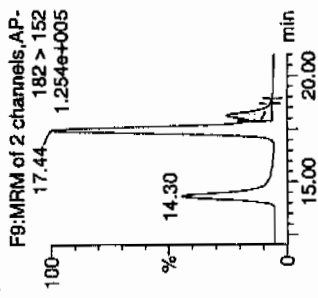
WAL-957702 / 247904001 usd / 21



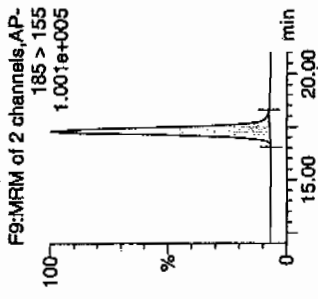
Amie
04/11/10

Dataset: C:\MASSLYN\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

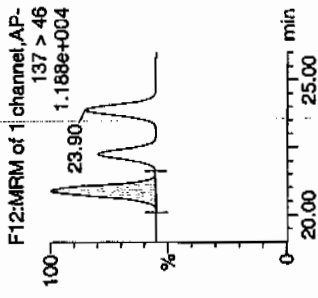
24-dinitrotoluène



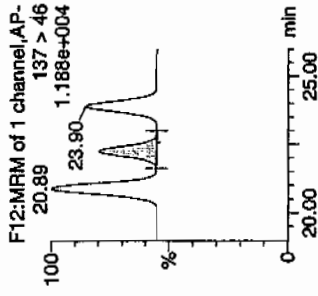
26-dinitrotoluene-d3



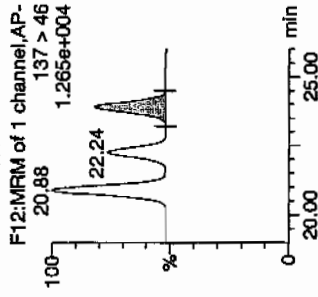
2-Nitrotoluene



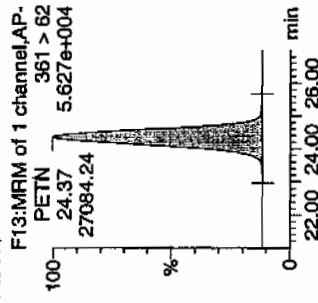
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Avs Resp	Response	Flags	Mod Date	Mod Time	Pre	Dev	SN
1202053634	HMX	176 > 102	5.23	21516.555	6546.319	21516.555	1643.409	bb		514.4918	102.9	2.9	1392.5
1202053634	RDX	176 > 102	7.58	17228.416	6546.319	17228.416	1315.886	bb		539.9912	108.0	8.0	948.2
1202053634	135-Trinitrobenzene	213 > 183	10.14	26127.145	6546.319	26127.145	1995.560	bb		472.5066	94.5	-5.5	2760.3
1202053634	13-Dinitrobenzene-d4	172 > 142	11.97	6546.319		6546.319	6546.319	bb		503.7141	100.7	0.7	530.4
1202053634	13-Dinitrobenzene	168 > 138	12.14	8190.396	6546.319	8190.396	625.573	bb		485.7415	97.1	-2.9	453.1
1202053634	TeiryI	241 > 181	12.63	3420.424	6546.319	3420.424	261.248	bb		253.7449	50.7	-49.3	249.8
1202053634	Nitrobenzene	123 > 46	13.54	3561.510	6546.319	3561.510	272.024	bb		452.6161	90.5	-9.5	267.5
1202053634	4-Amino-26-dinitrotoluene	197 > 167	15.53	11807.027	38704.105	11807.027	152.529	MM	10-Apr-10	11:37:59	98.0	-2.0	395.0
1202053634	2-Amino-46-dinitrotoluene	197 > 180	16.41	19214.389	38704.105	19214.389	248.222	bb		543.3568	108.7	8.7	277.7
1202053634	246-Trinitrotoluene	227 > 210	15.28	15315.703	38704.105	15315.703	197.856	bb		514.1882	102.8	2.8	843.3
1202053634	34-dinitrotoluene	182 > 152	14.30	21116.014	38704.105	21116.014	272.788	bb		265.9839	106.4	6.4	575.1
1202053634	26-dinitrotoluene	182 > 152	17.44	44005.480	38704.105	44005.480	568.486	MM	10-Apr-10	11:35:51	100.0	-0.0	1399.7
1202053634	24-dinitrotoluene	182 > 152	18.12	10321.572	38704.105	10321.572	133.339	MM	10-Apr-10	11:33:33	100.7	0.7	291.1
1202053634	26-dinitrotoluene-d3	185 > 155	17.29	38704.105		38704.105	38704.105	bb		490.1911	98.0	-2.0	2393.5
1202053634	2-Nitrotoluene	137 > 46	20.89	2550.916	38704.105	2550.916	32.954	bb		429.3051	85.9	-14.1	414.2
1202053634	4-Nitrotoluene	137 > 46	22.25	1337.148	38704.105	1337.148	17.274	bb		444.4747	88.9	-11.1	227.5
1202053634	3-Nitrotoluene	137 > 46	23.91	1705.470	38704.105	1705.470	22.032	bb		403.5398	80.7	-19.3	129.1
1202053634	PETN	361 > 62	24.37	27084.240	38704.105	27084.240	349.888	bb		523.4809	104.7	4.7	7177.9

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8019(247904001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-2012

Matrix: SOIL

GEL Sample ID: 1202053634

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957701

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220100.wiff

Date Analyzed: 23-MAR-10 17:10

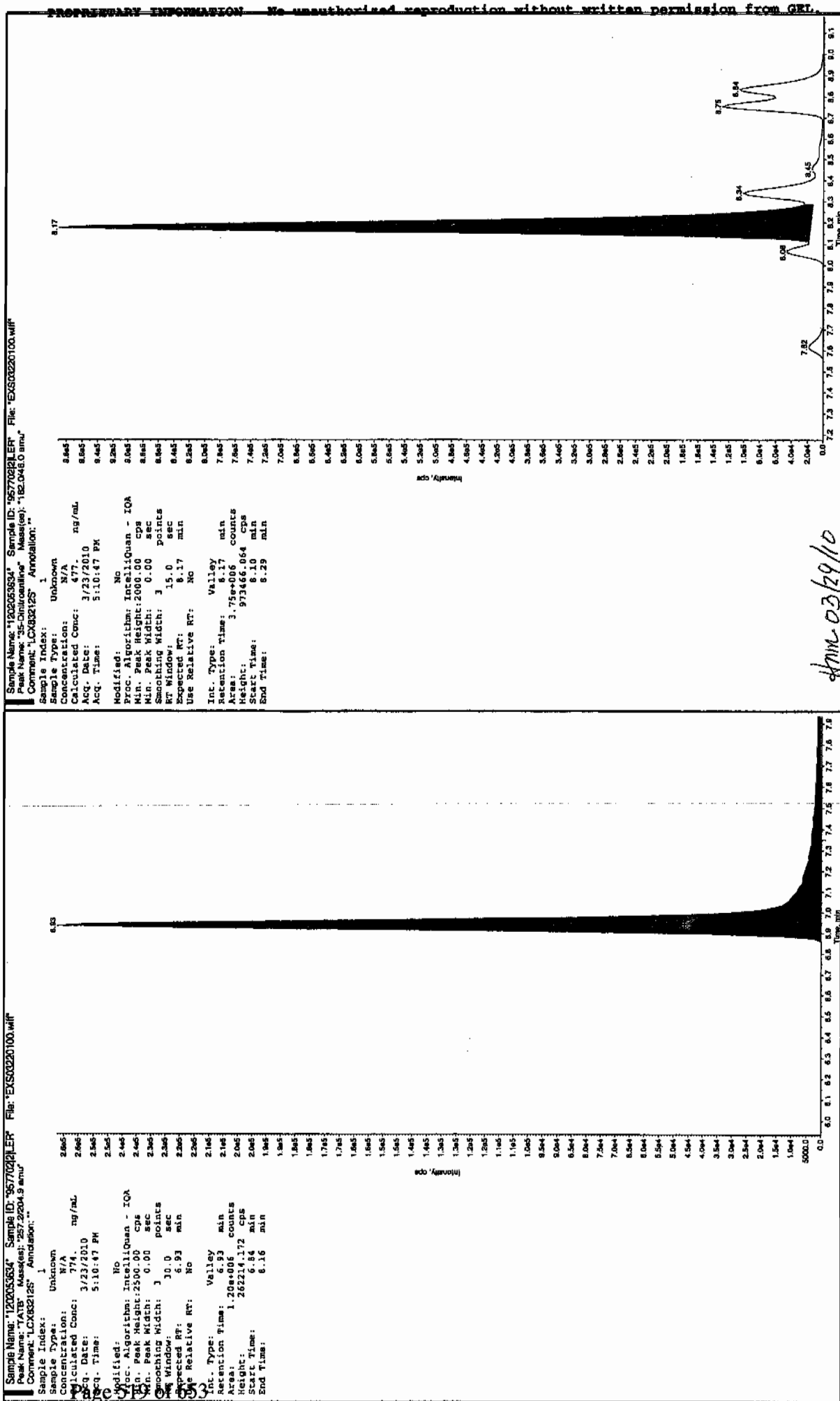
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	7740	
59229-75-3	2,6-Diamino-4-nitrotoluene	4880	
618-87-1	3,5-Dinitroaniline	4770	
6629-29-4	2,4-Diamino-6-nitrotoluene	3870	
78-30-8	tris(o-cresyl) phosphate	5400	

*Concentration =

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

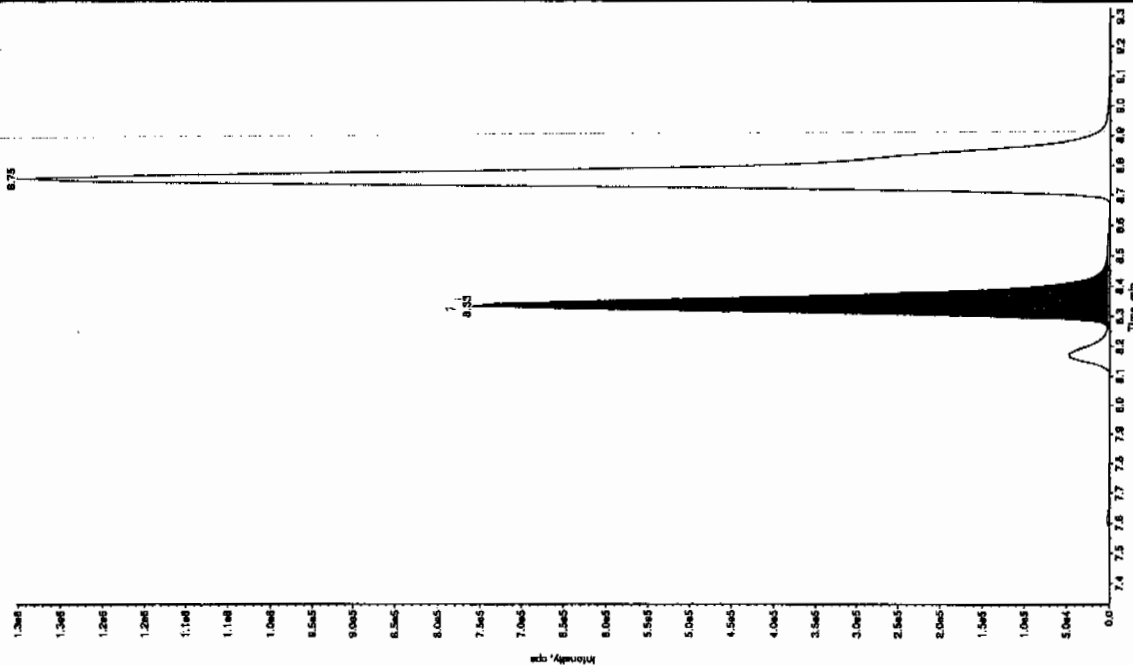
kan 3/27/10



kan 03/29/10

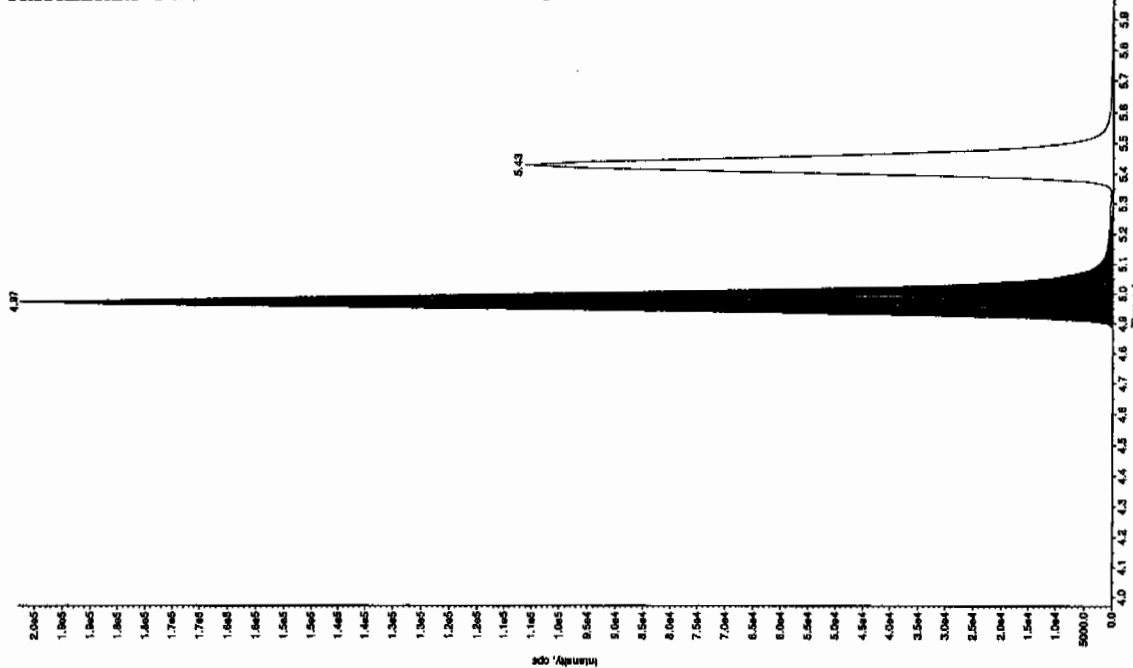
Sample Name: "1202053634" Sample ID: "957702121.ER" File: "EX030220100.wif"
 Peak Name: "34-Dinitro-4-nitrotoluene" Mass(es): "182.17/151.9 amu"
 Comment: "LCX032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 258 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:10:47 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: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.82e+008 counts
 Height: 757099731 cps
 Start Time: 8.26 min
 End Time: 8.33 min



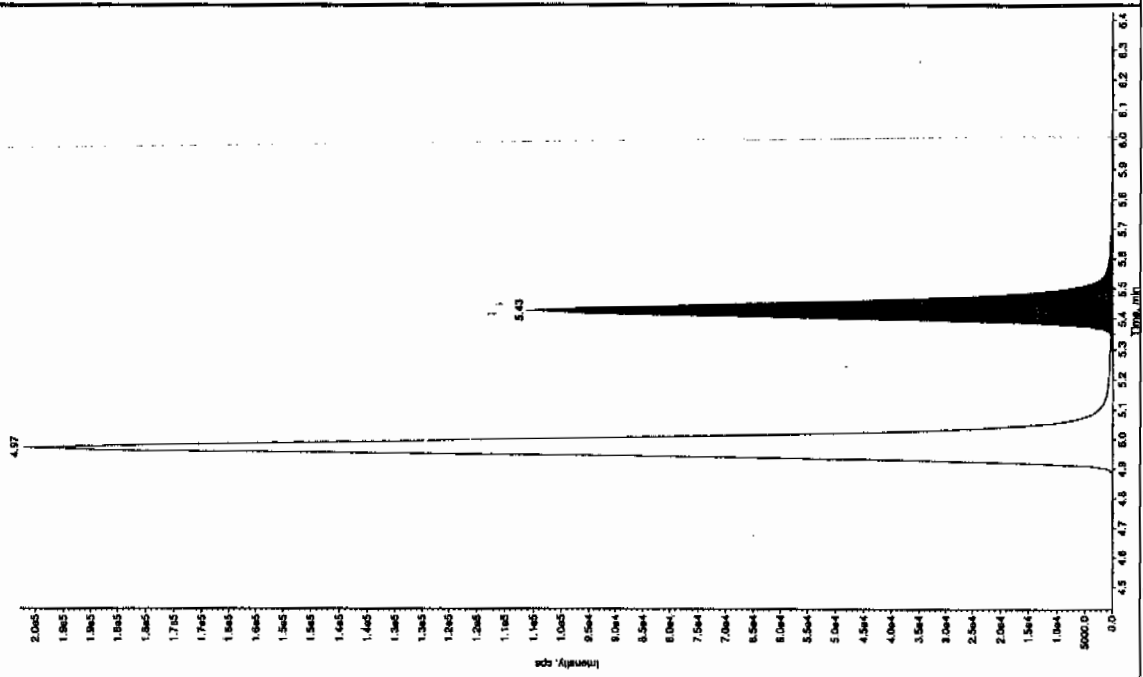
Sample Name: "1202053634" Sample ID: "957702121.ER" File: "EX030220100.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "186.0/165.0 amu"
 Comment: "LCX032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 258 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 5:10:47 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Area: 7.71e+005 counts
 Height: 197884.028 cps
 Start Time: 4.86 min
 End Time: 5.26 min



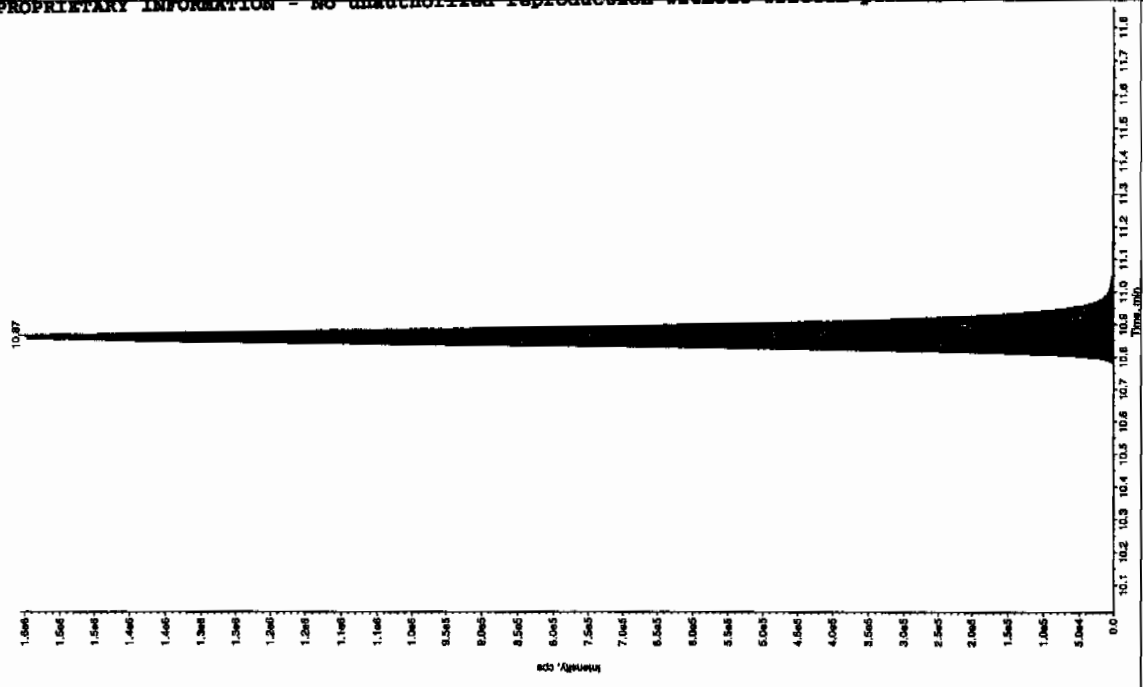
Sample Name: "1202053834" Sample ID: "95770221L1R" File: "EX503220100.wif"
Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 387. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:10:47 PM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 350.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 30.0 points
RT Window: 30.0 sec
Expected RT: 5.43 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 5.43 min
Area: 4.07e+005 counts
Height: 106416.039 cps
Start Time: 5.33 min
End Time: 5.61 min



Sample Name: "1202053834" Sample ID: "95770221L1R" File: "EX503220100.wif"
Peak Name: "Vib(5-cresyl) phosphite" Mass(es): "355.191.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 540. ng/mL
Acq. Date: 3/23/2010
Acq. Time: 5:10:47 PM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 8000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 30.0 points
RT Window: 30.0 sec
Expected RT: 10.9 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 10.9 min
Area: 6.58e+006 counts
Height: 1555151.733 cps
Start Time: 10.8 min
End Time: 11.2 min



MISCELLANEOUS DATA

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

Batch ID: 957701 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)
1202053631 MB	01-MAR-2010 16:00:00	2	10	5
1202053632 LCS	01-MAR-2010 16:00:00	2	10	5
247904001	01-MAR-2010 16:00:00	2	10	5
1202053633 MS (247904001)	01-MAR-2010 16:00:00	2	10	5
1202053634 MSD (247904001)	01-MAR-2010 16:00:00	2	10	5
247904002	01-MAR-2010 16:00:00	2	10	5
247904003	01-MAR-2010 16:00:00	2	10	5
247904004	01-MAR-2010 16:00:00	2	10	5
247904005	01-MAR-2010 16:00:00	2	10	5
247904006	01-MAR-2010 16:00:00	2	10	5
247904007	01-MAR-2010 16:00:00	2	10	5
247904008	01-MAR-2010 16:00:00	2	10	5
247904009	01-MAR-2010 16:00:00	2	10	5
247904010	01-MAR-2010 16:00:00	2	10	5
247904011	01-MAR-2010 16:00:00	2	10	5
247904012	01-MAR-2010 16:00:00	2	10	5
247904013	01-MAR-2010 16:00:00	2	10	5
247904014	01-MAR-2010 16:00:00	2	10	5
247904015	01-MAR-2010 16:00:00	2	10	5
247904016	01-MAR-2010 16:00:00	2	10	5
247904017	01-MAR-2010 16:00:00	2	10	5

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202053632	8321 Explosives LCS	EXX100225-03	.1	mL	Final Solvent: ACN
LCS	1202053632	8321 LANL Explosives Mix 10mg/L	UXX100223-02.01	1	mL	
MS	1202053633	8321 Explosives LCS	EXX100225-03	.1	mL	
MS	1202053633	8321 LANL Explosives Mix 10mg/L	UXX100223-02.01	1	mL	
MSD	1202053634	8321 Explosives LCS	EXX100225-03	.1	mL	
MSD	1202053634	8321 LANL Explosives Mix 10mg/L	UXX100223-02.01	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	EXP100301-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 04/08/10
 Extr. Injection Volume: 50uL
 Sequence Number: 040810expA
 Initial Calibration Date: 04/08/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100324-02.2
 Mobile Phase Lot#: 1296548, 1289686
 Standard-Samp Reagent Lot#: 1292884, 1293274
 Reviewed BY: *gdm*
 Date: *04/11/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100408-07 & WXX100410-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Cifent	Comments	QC_Flag
EXP0408001a	XIBLK01	MAP	4/8/10 21:32			1		USE	B
EXP0408002a	XIBLK01	MAP	4/8/10 22:02			1		USE	B
EXP0408003a	WXXICAL-01	MAP	4/8/10 22:31			1		USE	I
EXP0408004a	WXXICAL-02	MAP	4/8/10 23:01			1		USE	I
EXP0408005a	WXXICAL-03	MAP	4/8/10 23:30			1		USE	I
EXP0408006a	WXXICAL-04	MAP	4/9/10 0:00			1		USE	I
EXP0408007a	WXXICAL-05	MAP	4/9/10 0:29			1		USE	I
EXP0408008a	WXXICAL-06	MAP	4/9/10 0:59			1		USE	I
EXP0408009a	XIBLK02	MAP	4/9/10 1:28			1		USE	B
EXP0408010a	WXXICV	MAP	4/9/10 1:58			1		USE	C
EXP0408011a	XIBLK03	MAP	4/9/10 2:27			1		USE	B
EXP0408012a	WXXCRI	MAP	4/9/10 2:57			1		USE	C
EXP0408013a	1202053627	MAP	4/9/10 3:26	957700	10-2009	2	LANL	USE	S
EXP0408014a	1202053628	MAP	4/9/10 3:56	957700	10-2009	2	LANL	USE	S
EXP0408015a	247897001	MAP	4/9/10 4:25	957700	10-2009	2	LANL	USE	S
EXP0408016a	1202053629	MAP	4/9/10 4:55	957700	10-2009	2	LANL	USE	S
EXP0408017a	1202053630	MAP	4/9/10 5:24	957700	10-2009	2	LANL	USE	S
EXP0408018a	247897002	MAP	4/9/10 5:54	957700	10-2009	2	LANL	USE	S
EXP0408019a	247897003	MAP	4/9/10 6:23	957700	10-2009	2	LANL	USE	S
EXP0408020a	247897004	MAP	4/9/10 6:52	957700	10-2009	2	LANL	USE	S
EXP0408021a	247897005	MAP	4/9/10 7:22	957700	10-2009	2	LANL	USE	S
EXP0408022a	247897006	MAP	4/9/10 7:51	957700	10-2009	2	LANL	USE	S
EXP0408023a	WXXCCV	MAP	4/9/10 8:21			1		USE	C
EXP0408024a	XIBLK04	MAP	4/9/10 8:50			1		USE	B
EXP0408025a	WXXCRI	MAP	4/9/10 9:20			1		USE	C
EXP0408026a	247897007	MAP	4/9/10 9:49	957700	10-2009	2	LANL	USE	S
EXP0408027a	247897008	MAP	4/9/10 10:19	957700	10-2009	2	LANL	USE	S
EXP0408028a	247897009	MAP	4/9/10 10:48	957700	10-2009	2	LANL	DUSE-RA	S
EXP0408029a	247897010	MAP	4/9/10 11:18	957700	10-2009	2	LANL	DUSE-RA	S

EXP0408030a	247897011	MAP	4/9/10 11:47	957700	10-2009	2	LANL	DUSE-RA	S
EXP0408031a	247897012	MAP	4/9/10 12:17	957700	10-2009	2	LANL	USE	S
EXP0408032a	247897013	MAP	4/9/10 12:46	957700	10-2009	2	LANL	USE	S
EXP0408033a	247897014	MAP	4/9/10 13:16	957700	10-2009	2	LANL	USE	S
EXP0408034a	247897015	MAP	4/9/10 13:45	957700	10-2009	2	LANL	USE	S
EXP0408035a	247897016	MAP	4/9/10 14:15	957700	10-2009	2	LANL	USE	S
EXP0408036a	WXXCCV	MAP	4/9/10 14:44			1		USE	C
EXP0408037a	XIBLK05	MAP	4/9/10 15:14			1		USE	B
EXP0408038a	WXXCRI	MAP	4/9/10 15:43			1		USE	C
EXP0408039a	247897017	MAP	4/9/10 16:13	957700	10-2009	2	LANL	USE	S
EXP0408040a	247897018	MAP	4/9/10 16:46	957700	10-2009	2	LANL	USE	S
EXP0408041a	247897019	MAP	4/9/10 17:15	957700	10-2009	2	LANL	USE	S
EXP0408042a	247897020	MAP	4/9/10 17:45	957700	10-2009	2	LANL	USE	S
EXP0408043a	247897009	MAP	4/9/10 18:14	957700	10-2009	2	LANL	DUSE	S
EXP0408044a	247897010	MAP	4/9/10 18:44	957700	10-2009	2	LANL	DUSE	S
EXP0408045a	247897011	MAP	4/9/10 19:13	957700	10-2009	2	LANL	DUSE	S
EXP0408046a	WXXCCV	MAP	4/9/10 19:43			1		USE	C
EXP0408047a	XIBLK06	MAP	4/9/10 20:12			1		USE	B
EXP0408048a	WXXCRI	MAP	4/9/10 20:42			1		USE	C
EXP0408049a	1202053631	MAP	4/9/10 21:11	957702	10-2012	2	LANL	USE	S
EXP0408050a	1202053632	MAP	4/9/10 21:41	957702	10-2012	2	LANL	USE	S
EXP0408051a	247904001	MAP	4/9/10 22:10	957702	10-2012	2	LANL	USE	S
EXP0408052a	1202053633	MAP	4/9/10 22:40	957702	10-2012	2	LANL	USE	S
EXP0408053a	1202053634	MAP	4/9/10 23:09	957702	10-2012	2	LANL	USE	S
EXP0408054a	247904002	MAP	4/9/10 23:39	957702	10-2012	2	LANL	USE	S
EXP0408055a	247904003	MAP	4/10/10 0:08	957702	10-2012	2	LANL	USE	S
EXP0408056a	247904004	MAP	4/10/10 0:38	957702	10-2012	2	LANL	USE	S
EXP0408057a	247904005	MAP	4/10/10 1:07	957702	10-2012	2	LANL	USE	S
EXP0408058a	247904006	MAP	4/10/10 1:37	957702	10-2012	2	LANL	USE	S
EXP0408059a	WXXCCV	MAP	4/10/10 2:06			1		USE	C
EXP0408060a	XIBLK07	MAP	4/10/10 2:36			1		USE	B
EXP0408061a	WXXCRI	MAP	4/10/10 3:05			1		USE	C
EXP0408062a	247904007	MAP	4/10/10 3:35	957702	10-2012	2	LANL	USE	S
EXP0408063a	247904008	MAP	4/10/10 4:04	957702	10-2012	2	LANL	USE	S
EXP0408064a	247904009	MAP	4/10/10 4:34	957702	10-2012	2	LANL	USE	S
EXP0408065a	247904010	MAP	4/10/10 5:03	957702	10-2012	2	LANL	USE	S
EXP0408066a	247904011	MAP	4/10/10 5:33	957702	10-2012	2	LANL	USE	S

EXP0408067a	247904012	MAP	4/10/10 6:02	957702	10-2012	2	LANL	USE	S
EXP0408068a	247904013	MAP	4/10/10 6:32	957702	10-2012	2	LANL	USE	S
EXP0408069a	247904014	MAP	4/10/10 7:01	957702	10-2012	2	LANL	USE	S
EXP0408070a	247904015	MAP	4/10/10 7:31	957702	10-2012	2	LANL	USE	S
EXP0408071a	247904016	MAP	4/10/10 8:00	957702	10-2012	2	LANL	USE	S
EXP0408072a	WXXCVC	MAP	4/10/10 8:30			1		USE	C
EXP0408073a	XIBLK08	MAP	4/10/10 8:59			1		USE	B
EXP0408074a	WXXCRI	MAP	4/10/10 9:29			1		USE	C
EXP0408075a	247904017	MAP	4/10/10 9:58	957702	10-2012	2	LANL	USE	S
EXP0408076a	XIBLK09	MAP	4/10/10 10:28			1		USE	B
EXP0408077a	1202055003	MAP	4/10/10 10:57	958247	Various	2	LANL	USE	S
EXP0408078a	1202055004	MAP	4/10/10 11:27	958247	Various	2	LANL	USE	S
EXP0408079a	248004002	MAP	4/10/10 11:57	958247	10-2024	2	LANL	USE	S
EXP0408080a	1202055005	MAP	4/10/10 12:26	958247	10-2024	2	LANL	USE	S
EXP0408081a	1202055006	MAP	4/10/10 12:55	958247	10-2024	2	LANL	USE	S
EXP0408082a	247897009	MAP	4/10/10 13:25	957700	10-2009	2	LANL	USE	S
EXP0408083a	247897010	MAP	4/10/10 13:54	957700	10-2009	2	LANL	USE	S
EXP0408084a	247897011	MAP	4/10/10 14:24	957700	10-2009	2	LANL	USE	S
EXP0408085a	WXXCVC	MAP	4/10/10 14:53			1		USE	C
EXP0408086a	XIBLK10	MAP	4/10/10 15:23			1		USE	B
EXP0408087a	WXXCRI	MAP	4/10/10 15:52			1		USE	C
EXP0408088a	248004003	MAP	4/10/10 16:22	958247	10-2024	2	LANL	USE	S
EXP0408089a	248004004	MAP	4/10/10 16:51	958247	10-2024	2	LANL	USE	S
EXP0408090a	248004005	MAP	4/10/10 17:21	958247	10-2024	2	LANL	USE	S
EXP0408091a	248004006	MAP	4/10/10 17:50	958247	10-2024	2	LANL	USE	S
EXP0408092a	248012002	MAP	4/10/10 18:20	958247	10-2027	2	LANL	USE	S
EXP0408093a	248012003	MAP	4/10/10 18:49	958247	10-2027	2	LANL	USE	S
EXP0408094a	248012004	MAP	4/10/10 19:19	958247	10-2027	2	LANL	USE	S
EXP0408095a	248012005	MAP	4/10/10 19:48	958247	10-2027	2	LANL	USE	S
EXP0408096a	248012006	MAP	4/10/10 20:18	958247	10-2027	2	LANL	USE	S
EXP0408097a	248012007	MAP	4/10/10 20:47	958247	10-2027	2	LANL	USE	S
EXP0408098a	WXXCVC	MAP	4/10/10 21:17			1		USE	C
EXP0408099a	XIBLK11	MAP	4/10/10 21:46			1		USE	B
EXP0408100a	WXXCRI	MAP	4/10/10 22:16			1		USE	C
EXP0408101a	248012008	MAP	4/10/10 22:45	958247	10-2027	2	LANL	USE	S
EXP0408102a	248012009	MAP	4/10/10 23:15	958247	10-2027	2	LANL	USE	S
EXP0408103a	248013001	MAP	4/10/10 23:44	958247	10-2034	2	LANL	USE	S

EXP0408104a	248013002	MAP	4/11/10 0:14	958247	10-2034	2	LANL	USE	S
EXP0408105a	248013003	MAP	4/11/10 0:43	958247	10-2034	2	LANL	USE	S
EXP0408106a	248013004	MAP	4/11/10 1:13	958247	10-2034	2	LANL	USE	S
EXP0408107a	WXXCCV	MAP	4/11/10 1:42			1		USE	C
EXP0408108a	XIBLK12	MAP	4/11/10 2:12			1		USE	B
EXP0408109a	WXXCRI	MAP	4/11/10 2:41			1		USE	C
EXP0408110a	1202055078	MAP	4/11/10 3:11	958282	Various	2	LANL	DUSE-RA	S
EXP0408111a	1202055079	MAP	4/11/10 3:40	958282	Various	2	LANL	USE	S
EXP0408112a	248017003	MAP	4/11/10 4:10	958282	10-2039	2	LANL	DUSE-RA	S
EXP0408113a	1202055080	MAP	4/11/10 4:39	958282	10-2039	2	LANL	USE	S
EXP0408114a	1202055081	MAP	4/11/10 5:09	958282	10-2039	2	LANL	DUSE-RA	S
EXP0408115a	248042002	MAP	4/11/10 5:38	958282	10-2057	2	LANL	DUSE-RA	S
EXP0408116a	248042008	MAP	4/11/10 6:08	958282	10-2057	2	LANL	DUSE-RA	S
EXP0408117a	248042010	MAP	4/11/10 6:37	958282	10-2057	2	LANL	DUSE-RA	S
EXP0408118a	248047003	MAP	4/11/10 7:07	958282	10-2045	2	LANL	USE	S
EXP0408119a	248047007	MAP	4/11/10 7:36	958282	10-2045	2	LANL	DUSE-RA	S
EXP0408120a	WXXCCV	MAP	4/11/10 8:06			1		USE	C
EXP0408121a	XIBLK13	MAP	4/11/10 8:35			1		USE	B
EXP0408122a	WXXCRI	MAP	4/11/10 9:05			1		USE	C
EXP0408123a	1202055028	MAP	4/11/10 9:34	958257	Various	2	LANL	USE	S
EXP0408124a	1202055031	MAP	4/11/10 10:04	958257	Various	2	LANL	USE	S
EXP0408125a	248027002	MAP	4/11/10 10:33	958257	10-2068	2	LANL	USE	S
EXP0408126a	1202055029	MAP	4/11/10 11:03	958257	10-2068	2	LANL	USE	S
EXP0408127a	1202055030	MAP	4/11/10 11:32	958257	10-2068	2	LANL	USE	S
EXP0408128a	248027003	MAP	4/11/10 12:02	958257	10-2068	2	LANL	USE	S
EXP0408129a	248027004	MAP	4/11/10 12:31	958257	10-2068	2	LANL	USE	S
EXP0408130a	248027005	MAP	4/11/10 13:01	958257	10-2068	2	LANL	USE	S
EXP0408131a	248027006	MAP	4/11/10 13:30	958257	10-2068	2	LANL	USE	S
EXP0408132a	248029001	MAP	4/11/10 14:00	958257	10-2071	2	LANL	USE	S
EXP0408133a	WXXCCV	MAP	4/11/10 14:29			1		USE	C
EXP0408134a	XIBLK14	MAP	4/11/10 14:59			1		USE	B
EXP0408135a	WXXCRI	MAP	4/11/10 15:28			1		USE	C
EXP0408136a	248029002	MAP	4/11/10 15:58	958257	10-2071	2	LANL	USE	S
EXP0408137a	248029003	MAP	4/11/10 16:27	958257	10-2071	2	LANL	USE	S
EXP0408138a	248029004	MAP	4/11/10 16:57	958257	10-2071	2	LANL	USE	S
EXP0408139a	248029005	MAP	4/11/10 17:26	958257	10-2071	2	LANL	USE	S
EXP0408140a	248029006	MAP	4/11/10 17:56	958257	10-2071	2	LANL	USE	S

EXP0408141a	248029007	MAP	4/11/10 18:25	958257	10-2071	2	LANL	USE	S
EXP0408142a	248029008	MAP	4/11/10 18:55	958257	10-2071	2	LANL	USE	S
EXP0408143a	248029009	MAP	4/11/10 19:24	958257	10-2071	2	LANL	USE	S
EXP0408144a	248068001	MAP	4/11/10 19:54	958257	10-2088	2	LANL	USE	S
EXP0408145a	248068002	MAP	4/11/10 20:23	958257	10-2088	2	LANL	USE	S
EXP0408146a	WXXCCV	MAP	4/11/10 20:53			1		USE	C
EXP0408147a	XIBLK15	MAP	4/11/10 21:22			1		USE	B
EXP0408148a	WXXCRI	MAP	4/11/10 21:52			1		USE	C
EXP0408149a	1202055038	MAP	4/11/10 22:21	958267	10-2077	2	LANL	USE	S
EXP0408150a	1202055039	MAP	4/11/10 22:51	958267	10-2077	2	LANL	USE	S
EXP0408151a	248052001	MAP	4/11/10 23:20	958267	10-2077	2	LANL	USE	S
EXP0408152a	1202055040	MAP	4/11/10 23:50	958267	10-2077	2	LANL	USE	S
EXP0408153a	1202055041	MAP	4/12/10 0:19	958267	10-2077	2	LANL	USE	S
EXP0408154a	248052002	MAP	4/12/10 0:49	958267	10-2077	2	LANL	USE	S
EXP0408155a	248052003	MAP	4/12/10 1:18	958267	10-2077	2	LANL	USE	S
EXP0408156a	248052004	MAP	4/12/10 1:48	958267	10-2077	2	LANL	USE	S
EXP0408157a	248052005	MAP	4/12/10 2:17	958267	10-2077	2	LANL	USE	S
EXP0408158a	248052006	MAP	4/12/10 2:47	958267	10-2077	2	LANL	USE	S
EXP0408159a	WXXCCV	MAP	4/12/10 3:16			1		USE	C
EXP0408160a	XIBLK16	MAP	4/12/10 3:46			1		USE	B
EXP0408161a	WXXCRI	MAP	4/12/10 4:15			1		USE	C
EXP0408162a	248052007	MAP	4/12/10 4:45	958267	10-2077	2	LANL	USE	S
EXP0408163a	248052008	MAP	4/12/10 5:14	958267	10-2077	2	LANL	USE	S
EXP0408164a	248052009	MAP	4/12/10 5:44	958267	10-2077	2	LANL	USE	S
EXP0408165a	248052010	MAP	4/12/10 6:13	958267	10-2077	2	LANL	USE	S
EXP0408166a	248052011	MAP	4/12/10 6:43	958267	10-2077	2	LANL	USE	S
EXP0408167a	248052012	MAP	4/12/10 7:12	958267	10-2077	2	LANL	USE	S
EXP0408168a	248052013	MAP	4/12/10 7:42	958267	10-2077	2	LANL	USE	S
EXP0408169a	248052014	MAP	4/12/10 8:11	958267	10-2077	2	LANL	USE	S
EXP0408170a	248052015	MAP	4/12/10 8:41	958267	10-2077	2	LANL	USE	S
EXP0408171a	248052016	MAP	4/12/10 9:10	958267	10-2077	2	LANL	USE	S
EXP0408172a	WXXCCV	MAP	4/12/10 9:40			1		USE	C
EXP0408173a	XIBLK17	MAP	4/12/10 10:09			1		USE	B
EXP0408174a	WXXCRI	MAP	4/12/10 10:39			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS4

Date: 03/22/10

Extr. Injection Volume: 10ul

Sequence Number: 032210exs

Initial Calibration Date: 032210

Method: 8321A-Modified

Int. Std.: N/A

Mobile Phase Lot#: 1268566, 1268568

Standard-Samp Reagent Lot#: 1274562, 1261217

Reviewed By: *HMC*

Date: *03/29/10*

SOP: GL-OA-E-056 Rev.12

Alt Check Std. ID: WXX100322-26

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

EXS03220031.wiff	248420005	LER	3/22/2010 23:04	960370	10-2190	2	LANL	USE	S
EXS03220032.wiff	248420006	LER	3/22/2010 23:20	960370	10-2190	2	LANL	USE	S
EXS03220033.wiff	248420007	LER	3/22/2010 23:35	960370	10-2190	2	LANL	USE	S
EXS03220034.wiff	248420008	LER	3/22/2010 23:51	960370	10-2190	2	LANL	USE	S
EXS03220035.wiff	WXXCCV	LER	3/23/2010 0:07			1		USE	C
EXS03220036.wiff	XIBLK05	LER	3/23/2010 0:22			1		USE	B
EXS03220037.wiff	WXXCRI	LER	3/23/2010 0:38			1		USE	C
EXS03220038.wiff	248420009	LER	3/23/2010 0:54	960370	10-2190	2	LANL	USE	S
EXS03220039.wiff	XIBLK06	LER	3/23/2010 1:10			1		USE	B
EXS03220040.wiff	1202052398	LER	3/23/2010 1:25	957196	10-1972	2	LANL	USE	S
EXS03220041.wiff	1202052399	LER	3/23/2010 1:41	957196	10-1972	2	LANL	USE	S
EXS03220042.wiff	247767001	LER	3/23/2010 1:57	957196	10-1972	2	LANL	USE	S
EXS03220043.wiff	1202052400	LER	3/23/2010 2:12	957196	10-1972	2	LANL	USE	S
EXS03220044.wiff	1202052401	LER	3/23/2010 2:28	957196	10-1972	2	LANL	USE	S
EXS03220045.wiff	247767002	LER	3/23/2010 2:44	957196	10-1972	2	LANL	USE	S
EXS03220046.wiff	247767003	LER	3/23/2010 3:00	957196	10-1972	2	LANL	USE	S
EXS03220047.wiff	247767004	LER	3/23/2010 3:15	957196	10-1972	2	LANL	USE	S
EXS03220048.wiff	WXXCCV	LER	3/23/2010 3:31			1		USE	C
EXS03220049.wiff	XIBLK07	LER	3/23/2010 3:47			1		USE	B
EXS03220050.wiff	WXXCRI	LER	3/23/2010 4:02			1		USE	C
EXS03220051.wiff	247767005	LER	3/23/2010 4:18	957196	10-1972	2	LANL	USE	S
EXS03220052.wiff	247767006	LER	3/23/2010 4:34	957196	10-1972	2	LANL	USE	S
EXS03220053.wiff	247767007	LER	3/23/2010 4:50	957196	10-1972	2	LANL	USE	S
EXS03220054.wiff	247767008	LER	3/23/2010 5:05	957196	10-1972	2	LANL	USE	S
EXS03220055.wiff	247767009	LER	3/23/2010 5:21	957196	10-1972	2	LANL	USE	S
EXS03220056.wiff	247767010	LER	3/23/2010 5:37	957196	10-1972	2	LANL	USE	S
EXS03220057.wiff	247767011	LER	3/23/2010 5:53	957196	10-1972	2	LANL	USE	S
EXS03220058.wiff	WXXCCV	LER	3/23/2010 6:08			1		USE	C
EXS03220059.wiff	XIBLK08	LER	3/23/2010 6:24			1		USE	B
EXS03220060.wiff	WXXCRI	LER	3/23/2010 6:40			1		USE	C
EXS03220061.wiff	1202053627	LER	3/23/2010 6:55	957700	10-2009	2	LANL	USE	S
EXS03220062.wiff	1202053628	LER	3/23/2010 7:11	957700	10-2009	2	LANL	USE	S
EXS03220063.wiff	247897001	LER	3/23/2010 7:27	957700	10-2009	2	LANL	USE	S
EXS03220064.wiff	1202053629	LER	3/23/2010 7:42	957700	10-2009	2	LANL	USE	S
EXS03220065.wiff	1202053630	LER	3/23/2010 7:58	957700	10-2009	2	LANL	USE	S
EXS03220066.wiff	247897002	LER	3/23/2010 8:14	957700	10-2009	2	LANL	USE	S
EXS03220067.wiff	247897003	LER	3/23/2010 8:30	957700	10-2009	2	LANL	USE	S

EXS03220068.wiff	247897004	LER	3/23/2010 8:45	957700	10-2009	2	LANL	USE	S
EXS03220069.wiff	247897005	LER	3/23/2010 9:01	957700	10-2009	2	LANL	USE	S
EXS03220070.wiff	247897006	LER	3/23/2010 9:17	957700	10-2009	2	LANL	USE	S
EXS03220071.wiff	WXXCCV	LER	3/23/2010 9:33			1		USE	C
EXS03220072.wiff	XIBLK09	LER	3/23/2010 9:48			1		USE	B
EXS03220073.wiff	WXXCRI	LER	3/23/2010 10:04			1		USE	C
EXS03220074.wiff	247897007	LER	3/23/2010 10:20	957700	10-2009	2	LANL	USE	S
EXS03220075.wiff	247897008	LER	3/23/2010 10:35	957700	10-2009	2	LANL	USE	S
EXS03220076.wiff	247897009	LER	3/23/2010 10:51	957700	10-2009	2	LANL	USE	S
EXS03220077.wiff	247897010	LER	3/23/2010 11:07	957700	10-2009	2	LANL	USE	S
EXS03220078.wiff	247897011	LER	3/23/2010 11:23	957700	10-2009	2	LANL	USE	S
EXS03220079.wiff	247897012	LER	3/23/2010 11:38	957700	10-2009	2	LANL	USE	S
EXS03220080.wiff	247897013	LER	3/23/2010 11:54	957700	10-2009	2	LANL	USE	S
EXS03220081.wiff	247897014	LER	3/23/2010 12:10	957700	10-2009	2	LANL	USE	S
EXS03220082.wiff	247897015	LER	3/23/2010 12:26	957700	10-2009	2	LANL	USE	S
EXS03220083.wiff	247897016	LER	3/23/2010 12:42	957700	10-2009	2	LANL	USE	S
EXS03220084.wiff	WXXCCV	LER	3/23/2010 12:58			1		USE	C
EXS03220085.wiff	XIBLK10	LER	3/23/2010 13:13			1		USE	B
EXS03220086.wiff	WXXCRI	LER	3/23/2010 13:29			1		USE	C
EXS03220087.wiff	247897017	LER	3/23/2010 13:45	957700	10-2009	2	LANL	USE	S
EXS03220088.wiff	247897018	LER	3/23/2010 14:02	957700	10-2009	2	LANL	USE	S
EXS03220089.wiff	247897019	LER	3/23/2010 14:17	957700	10-2009	2	LANL	USE	S
EXS03220090.wiff	247897020	LER	3/23/2010 14:33	957700	10-2009	2	LANL	USE	S
EXS03220091.wiff	WXXCCV	LER	3/23/2010 14:49			1		USE	C
EXS03220092.wiff	XIBLK11	LER	3/23/2010 15:05			1		USE	B
EXS03220093.wiff	WXXCRI	LER	3/23/2010 15:20			1		USE	C
EXS03220094.wiff	UXX100223-02.1	LER	3/23/2010 15:36	SCREEN	SOLID	2	O2SI	USE	S
EXS03220095.wiff	XIBLK12	LER	3/23/2010 15:52			1		USE	B
EXS03220096.wiff	1202053631	LER	3/23/2010 16:08	957702	10-2012	2	LANL	USE	S
EXS03220097.wiff	1202053632	LER	3/23/2010 16:23	957702	10-2012	2	LANL	USE	S
EXS03220098.wiff	247904001	LER	3/23/2010 16:39	957702	10-2012	2	LANL	USE	S
EXS03220099.wiff	1202053633	LER	3/23/2010 16:55	957702	10-2012	2	LANL	USE	S
EXS03220100.wiff	1202053634	LER	3/23/2010 17:10	957702	10-2012	2	LANL	USE	S
EXS03220101.wiff	247904002	LER	3/23/2010 17:26	957702	10-2012	2	LANL	USE	S
EXS03220102.wiff	247904003	LER	3/23/2010 17:42	957702	10-2012	2	LANL	USE	S
EXS03220103.wiff	247904004	LER	3/23/2010 17:57	957702	10-2012	2	LANL	USE	S
EXS03220104.wiff	WXXCCV	LER	3/23/2010 18:13			1		USE	C

EXS03220105.wiff	XIBLK13	LER	3/23/2010 18:29			1	USE	B
EXS03220106.wiff	WXXCRI	LER	3/23/2010 18:44			1	USE	C
EXS03220107.wiff	247904005	LER	3/23/2010 19:00	957702	10-2012	2	LANL	S
EXS03220108.wiff	247904006	LER	3/23/2010 19:16	957702	10-2012	2	LANL	S
EXS03220109.wiff	247904007	LER	3/23/2010 19:32	957702	10-2012	2	LANL	S
EXS03220110.wiff	247904008	LER	3/23/2010 19:47	957702	10-2012	2	LANL	S
EXS03220111.wiff	247904009	LER	3/23/2010 20:03	957702	10-2012	2	LANL	S
EXS03220112.wiff	247904010	LER	3/23/2010 20:19	957702	10-2012	2	LANL	S
EXS03220113.wiff	247904011	LER	3/23/2010 20:34	957702	10-2012	2	LANL	S
EXS03220114.wiff	247904012	LER	3/23/2010 20:50	957702	10-2012	2	LANL	S
EXS03220115.wiff	247904013	LER	3/23/2010 21:06	957702	10-2012	2	LANL	S
EXS03220116.wiff	247904014	LER	3/23/2010 21:22	957702	10-2012	2	LANL	S
EXS03220117.wiff	WXXCCV	LER	3/23/2010 21:37			1	USE	C
EXS03220118.wiff	XIBLK14	LER	3/23/2010 21:53			1	USE	B
EXS03220119.wiff	WXXCRI	LER	3/23/2010 22:09			1	USE	C
EXS03220120.wiff	247904015	LER	3/23/2010 22:24	957702	10-2012	2	LANL	S
EXS03220121.wiff	247904016	LER	3/23/2010 22:40	957702	10-2012	2	LANL	S
EXS03220122.wiff	247904017	LER	3/23/2010 22:56	957702	10-2012	2	LANL	S
EXS03220123.wiff	WXXCCV	LER	3/23/2010 23:12			1	DUSE	C
EXS03220124.wiff	XIBLK15	LER	3/23/2010 23:27			1	DUSE	B
EXS03220125.wiff	WXXCRI	LER	3/23/2010 23:43			1	DUSE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/29/10
 Extr. Injection Volume: 10uL
 Sequence Number: 032910exs
 Initial Calibration Date: 032910
 Method: 8321A-Modified
 Int. Std: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1292884, 1284736
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100329-26

Reviewed By: *hnm*
 Date: *04/01/10*

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03290001.wiff	XIBLK01	LER	3/29/2010 8:59			1		USE	B
EXS03290002.wiff	XIBLK01	LER	3/29/2010 9:15			1		USE	B
EXS03290003.wiff	WXXICAL-19	LER	3/29/2010 9:30			1		USE	I
EXS03290004.wiff	WXXICAL-20	LER	3/29/2010 9:46			1		USE	I
EXS03290005.wiff	WXXICAL-21	LER	3/29/2010 10:02			1		USE	I
EXS03290006.wiff	WXXICAL-22	LER	3/29/2010 10:18			1		USE	I
EXS03290007.wiff	WXXICAL-23	LER	3/29/2010 10:33			1		USE	I
EXS03290008.wiff	WXXICAL-24	LER	3/29/2010 10:49			1		USE	I
EXS03290009.wiff	WXXICAL-25	LER	3/29/2010 11:05			1		USE	I
EXS03290010.wiff	XIBLK02	LER	3/29/2010 11:20			1		USE	B
EXS03290011.wiff	WXXICV	LER	3/29/2010 11:36			1		USE	C
EXS03290012.wiff	XIBLK03	LER	3/29/2010 11:52			1		USE	B
EXS03290013.wiff	WXXCRI	LER	3/29/2010 12:08			1		USE	C
EXS03290014.wiff	247904015	LER	3/29/2010 12:23	957702	10-2012	2	LANL	USE	S
EXS03290015.wiff	247904016	LER	3/29/2010 12:39	957702	10-2012	2	LANL	USE	S
EXS03290016.wiff	247904017	LER	3/29/2010 12:55	957702	10-2012	2	LANL	USE	S
EXS03290017.wiff	WXXCCV	LER	3/29/2010 13:10			1		USE	C
EXS03290018.wiff	XIBLK04	LER	3/29/2010 13:26			1		USE	B
EXS03290019.wiff	WXXCRI	LER	3/29/2010 13:42			1		USE	C
EXS03290020.wiff	1202076336	LER	3/29/2010 13:57	967392	10-2491	2	LANL	DUSE-MISC	S
EXS03290021.wiff	1202076337	LER	3/29/2010 14:13	967392	10-2491	2	LANL	DUSE-MISC	S
EXS03290022.wiff	249611006	LER	3/29/2010 14:29	967392	10-2491	2	LANL	DUSE-MISC	S
EXS03290023.wiff	1202076338	LER	3/29/2010 14:45	967392	10-2491	2	LANL	DUSE-MISC	S
EXS03290024.wiff	1202076339	LER	3/29/2010 15:00	967392	10-2491	2	LANL	DUSE-MISC	S
EXS03290025.wiff	WXXCCV	LER	3/29/2010 15:16			1		DUSE-MISC	C
EXS03290026.wiff	XIBLK05	LER	3/29/2010 15:32			1		DUSE-MISC	B
EXS03290027.wiff	WXXCRI	LER	3/29/2010 15:47			1		DUSE-MISC	C
EXS03290028.wiff	1202053635	LER	3/29/2010 16:03	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290029.wiff	1202053636	LER	3/29/2010 16:19	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290030.wiff	247915001	LER	3/29/2010 16:34	957705	10-2015	2	LANL	DUSE-RA	S

2

EXS032900031.wiff	1202053637	LER	3/29/2010 16:50	957705	10-2015	2	LANL	DUSE-RA	S
EXS032900032.wiff	1202053638	LER	3/29/2010 17:06	957705	10-2015	2	LANL	DUSE-RA	S
EXS032900033.wiff	247915002	LER	3/29/2010 17:22	957705	10-2015	2	LANL	DUSE-RA	S
EXS032900034.wiff	247915003	LER	3/29/2010 17:37	957705	10-2015	2	LANL	DUSE-RA	S
EXS032900035.wiff	247915004	LER	3/29/2010 17:53	957705	10-2015	2	LANL	DUSE-RA	S
EXS032900036.wiff	247915005	LER	3/29/2010 18:09	957705	10-2015	2	LANL	DUSE-RA	S
EXS032900037.wiff	247915006	LER	3/29/2010 18:25	957705	10-2015	2	LANL	DUSE-RA	S
EXS032900038.wiff	WXXCCV	LER	3/29/2010 18:40			1		USE	C
EXS032900039.wiff	XIBLK06	LER	3/29/2010 18:56			1		USE	B
EXS032900040.wiff	WXXCRI	LER	3/29/2010 19:12			1		USE	C
EXS032900041.wiff	1202061339	LER	3/29/2010 19:27	961041	VARIOUS	2	LANL	USE	S
EXS032900042.wiff	1202061340	LER	3/29/2010 19:43	961041	VARIOUS	2	LANL	USE	S
EXS032900043.wiff	248530001	LER	3/29/2010 19:59	961041	10-2204	2	LANL	USE	S
EXS032900044.wiff	1202061341	LER	3/29/2010 20:15	961041	10-2204	2	LANL	USE	S
EXS032900045.wiff	1202061342	LER	3/29/2010 20:30	961041	10-2204	2	LANL	USE	S
EXS032900046.wiff	248530002	LER	3/29/2010 20:46	961041	10-2204	2	LANL	USE	S
EXS032900047.wiff	248530003	LER	3/29/2010 21:02	961041	10-2204	2	LANL	USE	S
EXS032900048.wiff	248530004	LER	3/29/2010 21:18	961041	10-2204	2	LANL	USE	S
EXS032900049.wiff	248530005	LER	3/29/2010 21:33	961041	10-2204	2	LANL	USE	S
EXS032900050.wiff	248530006	LER	3/29/2010 21:49	961041	10-2204	2	LANL	USE	S
EXS032900051.wiff	WXXCCV	LER	3/29/2010 22:05			1		USE	C
EXS032900052.wiff	XIBLK07	LER	3/29/2010 22:21			1		USE	B
EXS032900053.wiff	WXXCRI	LER	3/29/2010 22:36			1		USE	C
EXS032900054.wiff	248530007	LER	3/29/2010 22:52	961041	10-2204	2	LANL	DUSE-RA	S
EXS032900055.wiff	248530008	LER	3/29/2010 23:08	961041	10-2204	2	LANL	DUSE-RA	S
EXS032900056.wiff	248530009	LER	3/29/2010 23:24	961041	10-2204	2	LANL	DUSE-RA	S
EXS032900057.wiff	248530010	LER	3/29/2010 23:39	961041	10-2204	2	LANL	DUSE-RA	S
EXS032900058.wiff	248538003	LER	3/29/2010 23:55	961041	10-2207	2	LANL	DUSE-RA	S
EXS032900059.wiff	248538004	LER	3/30/2010 0:11	961041	10-2207	2	LANL	DUSE-RA	S
EXS032900060.wiff	248538005	LER	3/30/2010 0:26	961041	10-2207	2	LANL	DUSE-RA	S
EXS032900061.wiff	248538006	LER	3/30/2010 0:42	961041	10-2207	2	LANL	DUSE-RA	S
EXS032900062.wiff	248538007	LER	3/30/2010 0:58	961041	10-2207	2	LANL	DUSE-RA	S
EXS032900063.wiff	248538008	LER	3/30/2010 1:14	961041	10-2207	2	LANL	DUSE-RA	S
EXS032900064.wiff	WXXCCV	LER	3/30/2010 1:29			1		DUSE-RA	C
EXS032900065.wiff	XIBLK08	LER	3/30/2010 1:45			1		DUSE-RA	B
EXS032900066.wiff	WXXCRI	LER	3/30/2010 2:01			1		DUSE-RA	C
EXS032900067.wiff	248538009	LER	3/30/2010 2:17	961041	10-2207	2	LANL	DUSE-RA	S

EXS03290068.wiff	248538010	LER	3/30/2010 2:32	961041	10-2207	2	LANL	DUSE-RA	S
EXS03290069.wiff	248538011	LER	3/30/2010 2:48	961041	10-2207	2	LANL	DUSE-RA	S
EXS03290070.wiff	WXXCCV	LER	3/30/2010 3:04			1		USE	C
EXS03290071.wiff	XIBLK09	LER	3/30/2010 3:20			1		USE	B
EXS03290072.wiff	WXXCRI	LER	3/30/2010 3:35			1		USE	C
EXS03290073.wiff	1202076336	LER	3/30/2010 3:51	967392	10-2491	2	LANL	USE	S
EXS03290074.wiff	1202076337	LER	3/30/2010 4:07	967392	10-2491	2	LANL	USE	S
EXS03290075.wiff	249611006	LER	3/30/2010 4:23	967392	10-2491	2	LANL	USE	S
EXS03290076.wiff	1202076338	LER	3/30/2010 4:38	967392	10-2491	2	LANL	USE	S
EXS03290077.wiff	1202076339	LER	3/30/2010 4:54	967392	10-2491	2	LANL	USE	S
EXS03290078.wiff	WXXCCV	LER	8/30/2010 5:10			1		USE	C
EXS03290079.wiff	XIBLK05	LER	3/30/2010 5:25			1		USE	B
EXS03290080.wiff	WXXCRI	LER	3/30/2010 5:41			1		USE	C
EXS03290081.wiff	1202053635	LER	3/30/2010 5:57	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290082.wiff	1202053636	LER	3/30/2010 6:13	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290083.wiff	247915001	LER	3/30/2010 6:28	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290084.wiff	1202053637	LER	3/30/2010 6:44	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290085.wiff	1202053638	LER	3/30/2010 7:00	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290086.wiff	247915002	LER	3/30/2010 7:15	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290087.wiff	247915003	LER	3/30/2010 7:31	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290088.wiff	247915004	LER	3/30/2010 7:47	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290089.wiff	247915005	LER	3/30/2010 8:03	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290090.wiff	247915006	LER	3/30/2010 8:18	957705	10-2015	2	LANL	DUSE-RA	S
EXS03290091.wiff	WXXCCV	LER	3/30/2010 8:34			1		DUSE	C
EXS03290092.wiff	XIBLK06	LER	3/30/2010 8:50			1		DUSE	B
EXS03290093.wiff	WXXCRI	LER	3/30/2010 9:05			1		DUSE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 816024

Revision No.: 1

DATA EXCEPTION REPORT

Mo. Day Yr. 11-APR-10	Division: Federal	Quality Criteria:	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 957702	Sample Numbers: 1202053632		
Potentially affected work order(s)(SDG): 247904(10-2012) Application Issues: Failed Recovery for LCS/LCSD			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The LCS (1202053632) did not meet spike recovery limits for Tetryl at 36.1%. The recovery limits are 51-112%.		1. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative.	

Originator's Name:

Michael Penny 11-APR-10

Data Validator/Group Leader:

Herbert Maier 12-APR-10

GC SEMIVOLATILE PCB ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2012**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 959468
Prep Batch Number: 959464

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247904015	RE15-10-8065
247904016	RE15-10-8066
247904017	RE15-10-8033
1202057855	Method Blank (MB)
1202057856	Laboratory Control Sample (LCS)
1202057857	248130002(WST16-10-13288) Matrix Spike (MS)
1202057858	248130002(WST16-10-13288) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 15.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

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

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

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

Continuing Calibration Verification (CCV) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MB 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 (#10-2097) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data are included in the package summarizing the results.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

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

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

Data Exception (DER) Documentation

Data exception report (DER) is for documentation of any procedural anomalies that may deviate from referenced

SOP or contractual document. A DER was not required for this SDG.

Manual Integration

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction..

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VII's will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
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: Jimmi Cao

Date: 3/23/10

Roadmap for LANL 10-2012 PCB

This roadmap was analyzed by jen01212 on 03-08-2010, 09:56.

This roadmap was reviewed by jim01140 on 03-09-2010, 08:16.

This roadmap was packaged by yml on 03-22-2010, 11:49.

This roadmap was validated by jim01140 on 03-23-2010, 09:49.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/014f1401.d	247904015	sample	02-MAR-2010	10:54	10-2012.sub	RE15-10-8065	1.00000	959468	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/015f1501.d	247904016	sample	02-MAR-2010	11:06	10-2012.sub	RE15-10-8066	1.00000	959468	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/016f1601.d	247904017	sample	02-MAR-2010	11:19	10-2012.sub	RE15-10-8033	1.00000	959468	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/014f1401.d	247904015	sample	02-MAR-2010	10:54	10-2012.sub	RE15-10-8065	1.00000	959468	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/015f1501.d	247904016	sample	02-MAR-2010	11:06	10-2012.sub	RE15-10-8066	1.00000	959468	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/016f1601.d	247904017	sample	02-MAR-2010	11:19	10-2012.sub	RE15-10-8033	1.00000	959468	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/012f1201.d	1202057855	mb	02-MAR-2010	10:29	10-2012.sub	PBLK01	1.00000	959468	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/013f1301.d	1202057856	lcs	02-MAR-2010	10:41	10-2012.sub	PBLK01LCS	1.00000	959468	UPLOAD BOTH, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/012b1201.d	1202057855	mb	02-MAR-2010	10:29	10-2012.sub	PBLK01	1.00000	959468	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030210.b/013b1301.d	1202057856	lcs	02-MAR-2010	10:41	10-2012.sub	PBLK01LCS	1.00000	959468	UPLOAD BOTH, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2012
Lab Sample ID: 247904017

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 24.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8033
Batch ID: 959468
Run Date: 03/02/2010 11:19
Prep Date: 03/01/2010 23:33
Data File: 016f1601.d
016b1601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.39	ug/kg	1.46	4.39	1
11104-28-2	Aroclor-1221	U	4.39	ug/kg	1.46	4.39	1
11141-16-5	Aroclor-1232	U	4.39	ug/kg	1.46	4.39	1
53469-21-9	Aroclor-1242	U	4.39	ug/kg	1.46	4.39	1
12672-29-6	Aroclor-1248	U	4.39	ug/kg	1.46	4.39	1
11097-69-1	Aroclor-1254	U	4.39	ug/kg	1.46	4.39	1
11096-82-5	Aroclor-1260	U	4.39	ug/kg	1.46	4.39	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2012
Lab Sample ID: 247904015

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8065
Batch ID: 959468
Run Date: 03/02/2010 10:54
Prep Date: 03/01/2010 23:33
Data File: 014f1401.d
014b1401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	U	3.67	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	U	3.67	ug/kg	1.22	3.67	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2012
Lab Sample ID: 247904016

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.1 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 19.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8066
Batch ID: 959468
Run Date: 03/02/2010 11:06
Prep Date: 03/01/2010 23:33
Data File: 015f1501.d
015b1501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.11	ug/kg	1.37	4.11	1
11104-28-2	Aroclor-1221	U	4.11	ug/kg	1.37	4.11	1
11141-16-5	Aroclor-1232	U	4.11	ug/kg	1.37	4.11	1
53469-21-9	Aroclor-1242	U	4.11	ug/kg	1.37	4.11	1
12672-29-6	Aroclor-1248	U	4.11	ug/kg	1.37	4.11	1
11097-69-1	Aroclor-1254	U	4.11	ug/kg	1.37	4.11	1
11096-82-5	Aroclor-1260	U	4.11	ug/kg	1.37	4.11	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-2012

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 #
1202057855	MB for batch 959464	86	92	54	93
1202057856	LCS for batch 959464	86	91	43	94
247904015	RE15-10-8065	60	62	41	63
247904016	RE15-10-8066	71	74	57	74
247904017	RE15-10-8033	56	57	30	56

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

PCB

Page 1 of 1

**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-2012

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 959464

Matrix: SOIL

Lab Sample ID:1202057856

Instrument: ECD8A.I

Analysis Date: 03/02/2010 10:41

Dilution: 1

Analyst: JAOC

Pren Batch II 959464

Inj. Vol: 1 uL

Batch ID: 959468

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	29.0	87	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	32.8	98	45-118

PCB

Page 1 of 2

**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-2097

Sample Type: Matrix Spike

Client ID: WST16-10-13288MS

Matrix: R

Lab Sample ID:1202057857

%Moisture: 9.8

Instrument: ECD8A.I

Analysis Date: 03/02/2010 15:51

Dilution: 1

Analyst: JAOC

Pren Batch II 959464

Inj. Vol: 1 uL

Batch ID: 959468

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	36.8	0.00 U	31.5	86	23-119
11096-82-5	MS Aroclor-1260	36.8	0.00 U	34.5	94	28-124

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-2097

Sample Type: Matrix Spike Duplicate

Client ID: WST16-10-13288MSD

Matrix: R

Lab Sample ID:1202057858

%Moisture: 9.8

Instrument: ECD8A.I

Analysis Date: 03/02/2010 16:04

Dilution: 1

Analyst: JAOC

Prep Batch ID: 959464

Inj. Vol: 1 uL

Batch ID: 959468

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	36.8	0.00 U	30.2	82	23-119	4	0-28
11096-82-5	MSD Aroclor-1260	36.8	0.00 U	34.5	94	28-124	0	0-30

Method Blank Summary

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SDG Number:	10-2012	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 959464	Instrument ID:	ECD8AJ_2	Data File:	012b1201-1.d
Lab Sample ID:	1202057855		ECD8AJ_1		012f1201-1.d
Column:	CLP2	Prep Date:	03/01/2010 23:33	Analyzed:	03/02/10 10:29
	CLP1	Level:	LOW		

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

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 959464	1202057856	013f1301-1.d 013b1301-1.d	03/02/10	1041
02 RE15-10-8065	247904015	014f1401.d 014b1401.d	03/02/10	1054
03 RE15-10-8066	247904016	015f1501.d 015b1501.d	03/02/10	1106
04 RE15-10-8033	247904017	016f1601.d 016b1601.d	03/02/10	1119

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-2012
Lab Sample ID: 247904017

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 24.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8033
Batch ID: 959468
Run Date: 03/02/2010 11:19
Prep Date: 03/01/2010 23:33
Data File: 016f1601.d
016b1601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.39	ug/kg	1.46	4.39	1
11104-28-2	Aroclor-1221	U	4.39	ug/kg	1.46	4.39	1
11141-16-5	Aroclor-1232	U	4.39	ug/kg	1.46	4.39	1
53469-21-9	Aroclor-1242	U	4.39	ug/kg	1.46	4.39	1
12672-29-6	Aroclor-1248	U	4.39	ug/kg	1.46	4.39	1
11097-69-1	Aroclor-1254	U	4.39	ug/kg	1.46	4.39	1
11096-82-5	Aroclor-1260	U	4.39	ug/kg	1.46	4.39	1

Data File: /chem/ecd8a.i/030210.b/016f1601.d
Report Date: 03-Mar-2010 11:24

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/016f1601.d

Lab Smp Id: 247904017

Client Smp ID: RE15-10-8033

Inj Date : 02-MAR-2010 11:19

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247904017|1|

Misc Info : |ECD82P_1S|959468|SVA|LANL|SOIL|RE15-10-8033|||

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 03-Mar-2010 08:07 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 16

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2012.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	24.31730	% 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	
2.252	2.251	0.001	14125878	112.102	4.9 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.242	6.243	-0.001	5331077	59.0256	2.6 80.00- 120.00	100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/ecdb8a.i/030210.b/016f1601.d

Date: 02-MAR-2010 11:19

Client ID: RE15-10-8033

Sample Info: 124790401711

Volume Injected (uL): 1.0

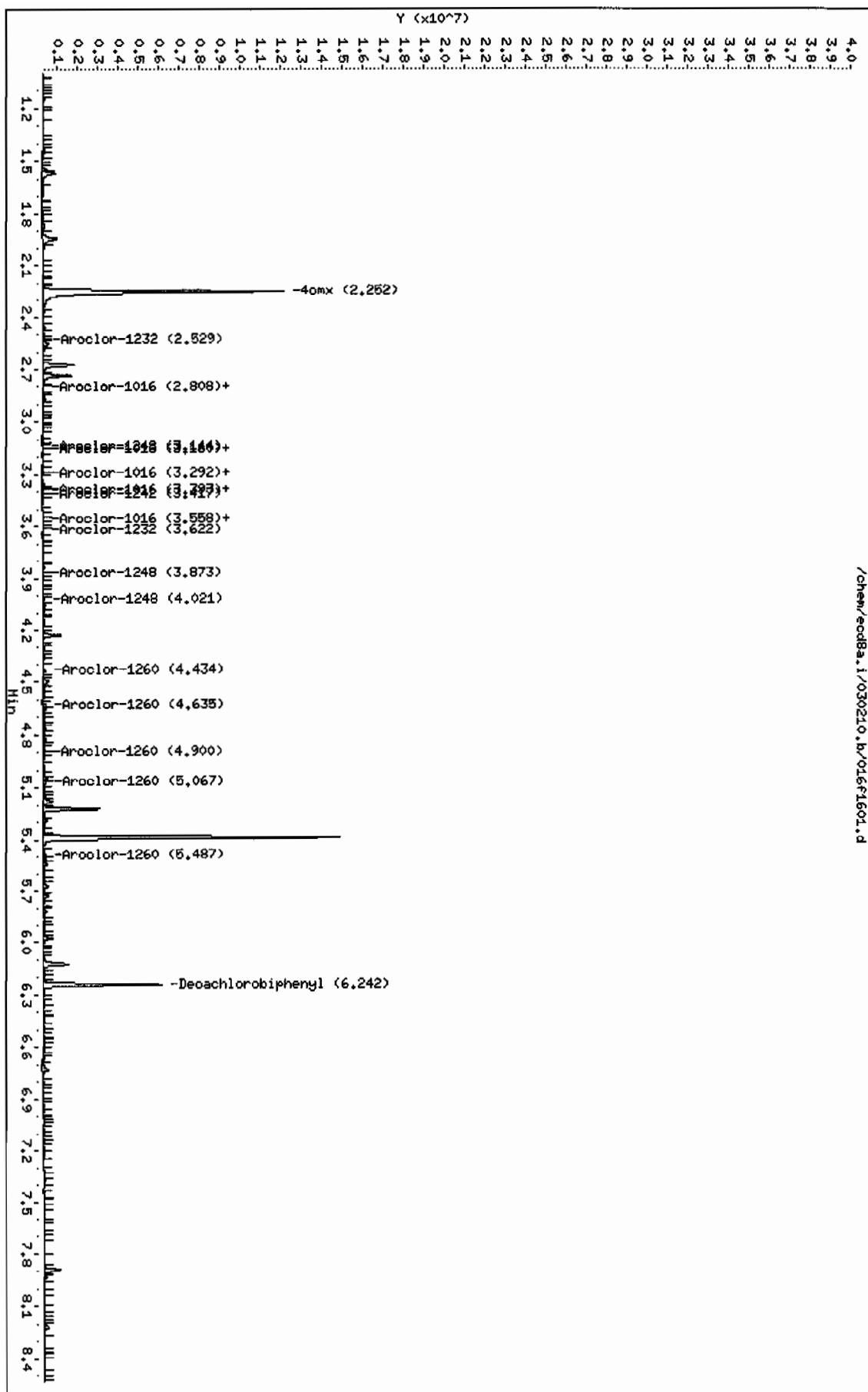
Column Phase: CLP1

Instrument: ecdb8a.i

Operator: JMO

Column diameter: 0.25

/chem/ecdb8a.i/030210.b/016f1601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/016b1601.d

Lab Smp Id: 247904017

Client Smp ID: RE15-10-8033

Inj Date : 02-MAR-2010 11:19

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247904017|1|

Misc Info : |ECD82P_1S|959468|SVA|LANL|SOIL|RE15-10-8033|||

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 03-Mar-2010 08:08 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 16

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2012.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	24.31730	% Moisture

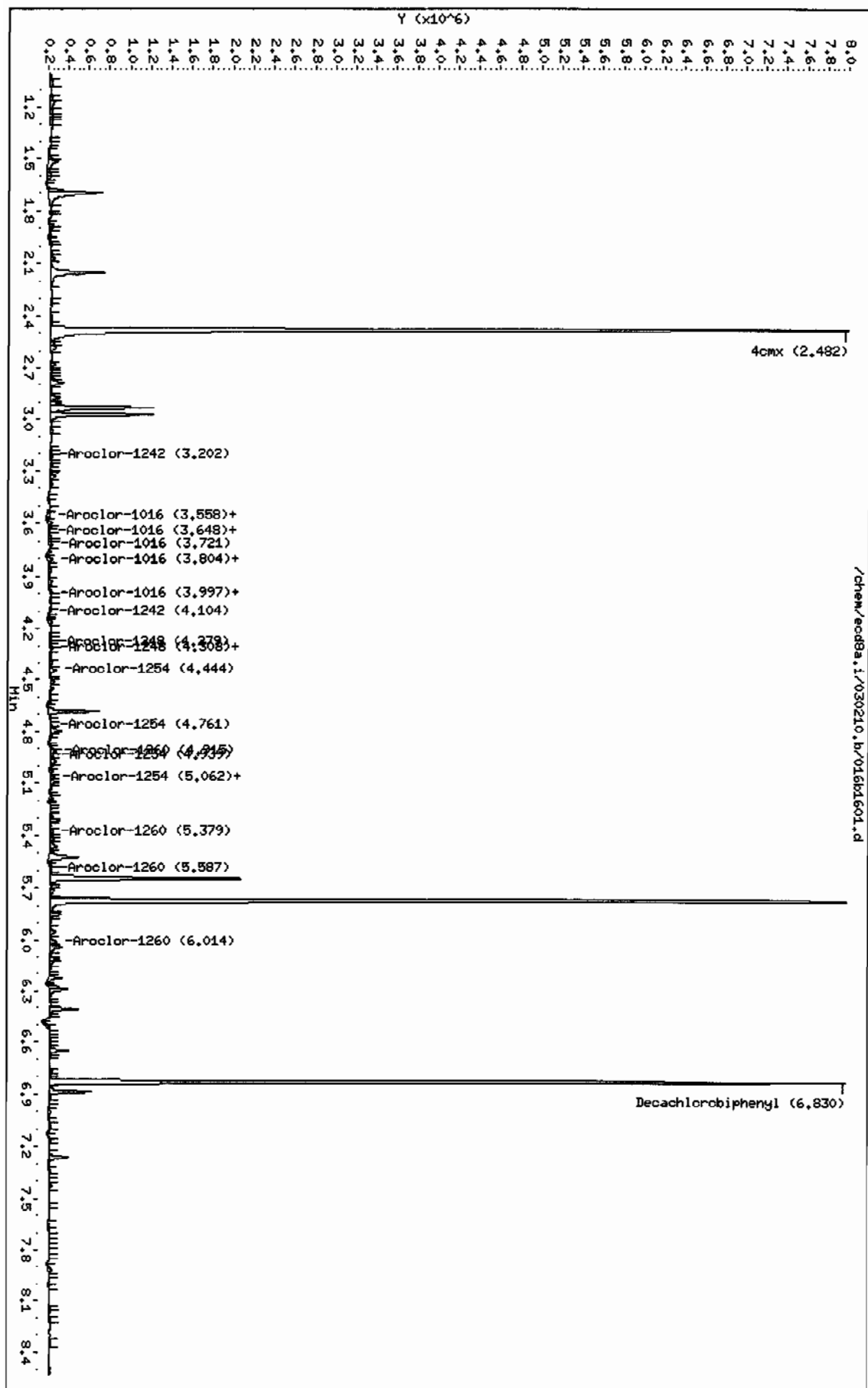
Cpnd Variable

Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx	2.482	2.482	0.000	9451107 114.594	5.0 80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl	6.830	6.832	-0.002	6942599 112.636	4.9 80.00- 120.00	100.00

Data File: /chem/ecd8a.i/030210.b/016b1601.d
 Date : 02-MAR-2010 11:19
 Client ID: REIS-10-8033
 Sample Info: 124790402711
 Volume Injected (uL): 1.0
 Column Phase: CLP2

Instrument: ecd8a.i
 Operator: JADC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2012
Lab Sample ID: 247904015

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8AJ
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	U	3.67	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	U	3.67	ug/kg	1.22	3.67	1

Data File: /chem/ecd8a.i/030210.b/014f1401.d
 Report Date: 03-Mar-2010 11:19

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/014f1401.d
 Lab Smp Id: 247904015 Client Smp ID: RE15-10-8065
 Inj Date : 02-MAR-2010 10:54
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |247904015||
 Misc Info : |ECD82P_1S|959468|SVA|LANL|SOIL|RE15-10-8065||
 Comment :
 Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m
 Meth Date : 03-Mar-2010 08:07 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2012.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	30.05000	Weight of sample extracted (g)
M	9.22760	% Moisture

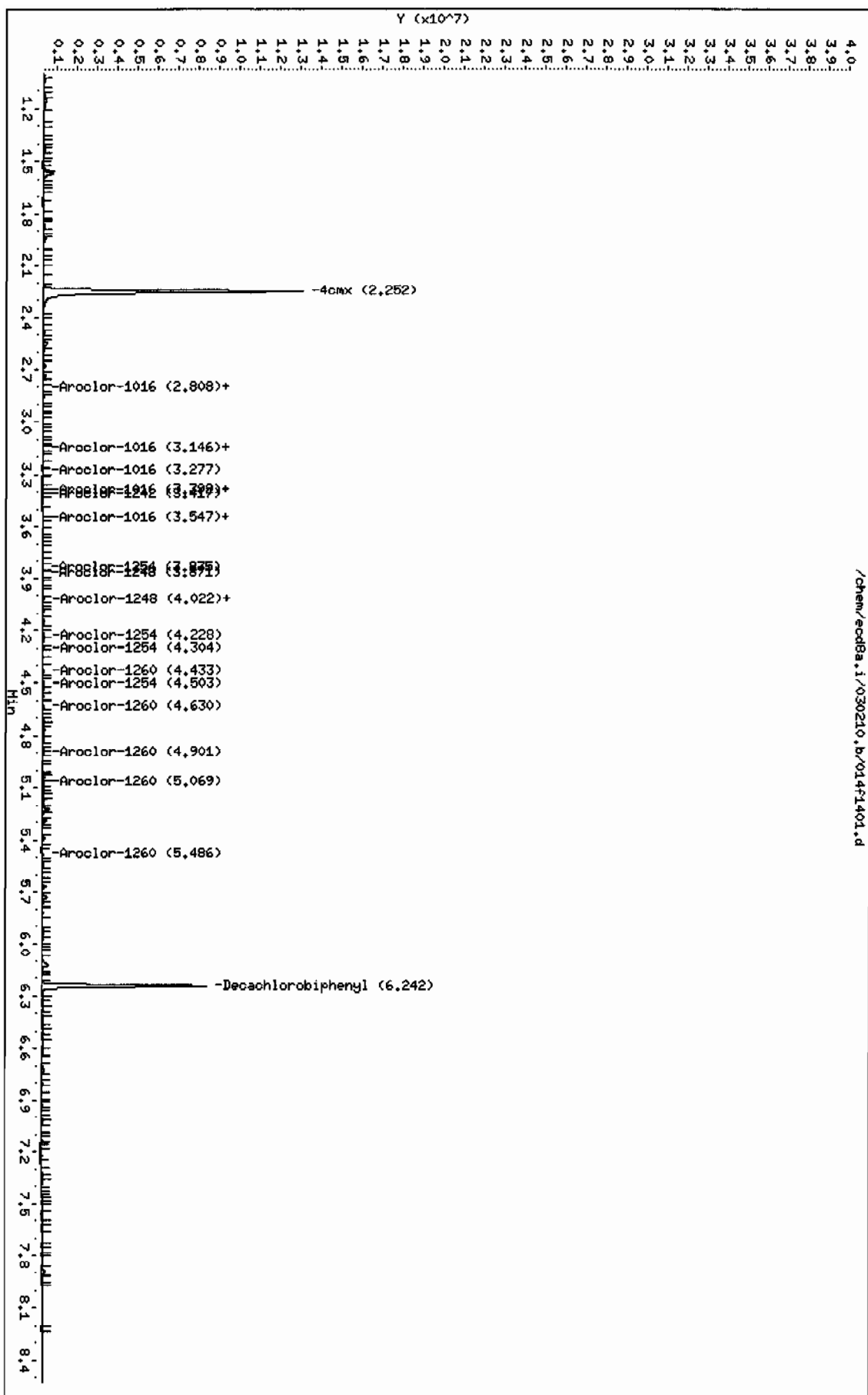
Cpnd Variable Local Compound Variable

		CONCENTRATIONS						
		ON-COL	FINAL					
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====		=====
\$ 11 4cmx CAS #: 877-09-8								
2.252	2.251	0.001	15020988	119.205	4.4	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3								
6.242	6.243	-0.001	7455733	82.5497	3.0	80.00- 120.00	100.00	

Data File: /chem/ecob8a.i/030210.b/014f1401.d
 Date: 02-MAR-2010 10:54
 Client ID: REIS-10-8065
 Sample Info: 124790401511
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecob8a.i
 Operator: JMO
 Column diameter: 0.25



Data File: /chem/ecd8a.i/030210.b/014b1401.d
Report Date: 03-Mar-2010 11:18

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/014b1401.d
Lab Smp Id: 247904015 Client Smp ID: RE15-10-8065
Inj Date : 02-MAR-2010 10:54
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247904015|1|
Misc Info : |ECD82P_1S|959468|SVA|LANL|SOIL|RE15-10-8065|1|
Comment :
Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m
Meth Date : 03-Mar-2010 08:08 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2012.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	30.05000	Weight of sample extracted (g)
M	9.22760	% Moisture

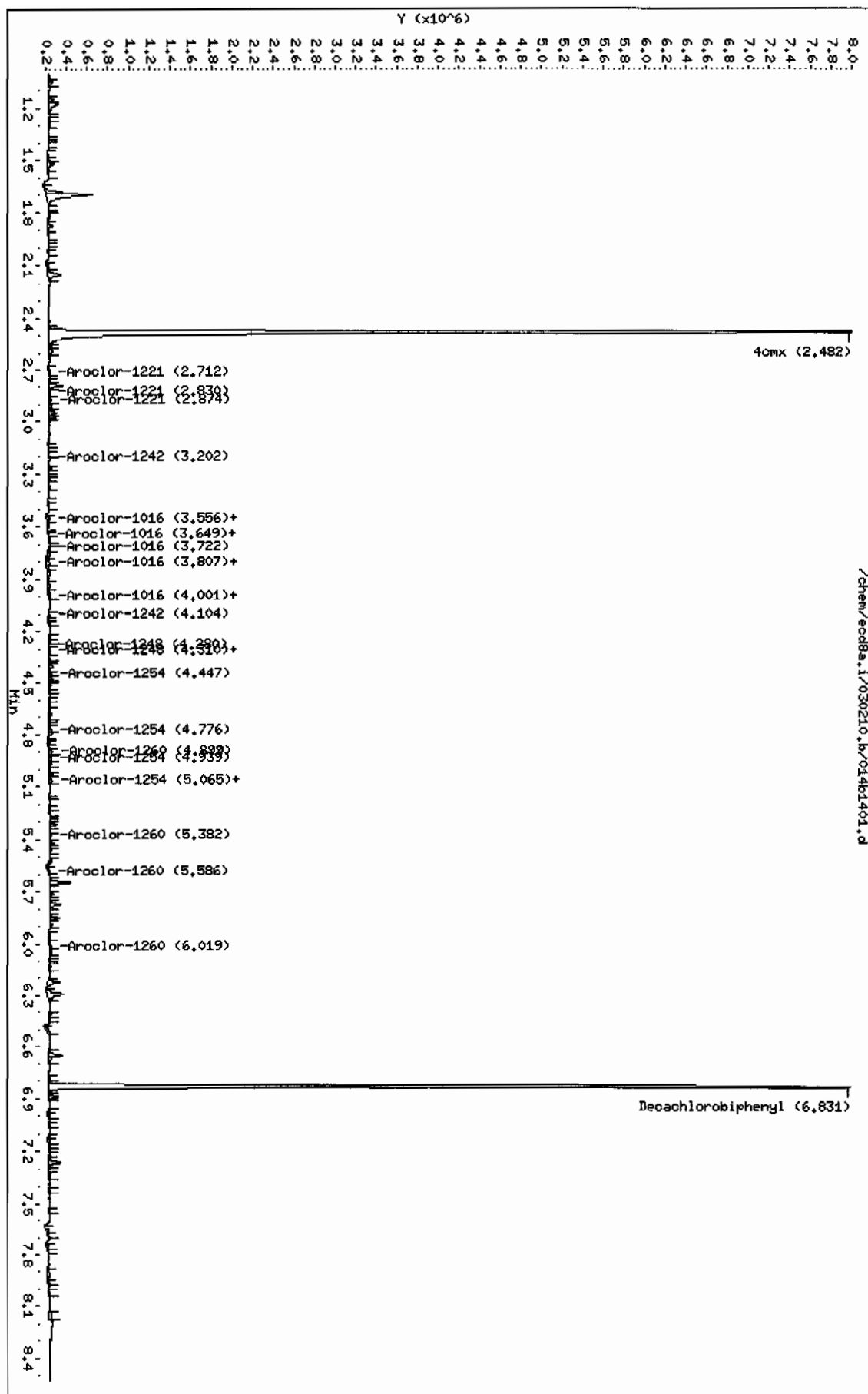
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.482	2.482	0.000	10221675 123.937	4.5	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.831	6.832	-0.001	7707219 125.041	4.6	80.00- 120.00	100.00

Data File: /chem/ecob8a.i/030210.b/014b1401.d
 Date : 02-MAR-2010 10:54
 Client ID: RE15-10-8065
 Sample Info: 124790401511
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecob8a.i
 Operator: JHOC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2012
Lab Sample ID: 247904016

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.1 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 19.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.11	ug/kg	1.37	4.11	1
11104-28-2	Aroclor-1221	U	4.11	ug/kg	1.37	4.11	1
11141-16-5	Aroclor-1232	U	4.11	ug/kg	1.37	4.11	1
53469-21-9	Aroclor-1242	U	4.11	ug/kg	1.37	4.11	1
12672-29-6	Aroclor-1248	U	4.11	ug/kg	1.37	4.11	1
11097-69-1	Aroclor-1254	U	4.11	ug/kg	1.37	4.11	1
11096-82-5	Aroclor-1260	U	4.11	ug/kg	1.37	4.11	1

Data File: /chem/ecd8a.i/030210.b/015f1501.d
Report Date: 03-Mar-2010 11:23

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/015f1501.d

Lab Smp Id: 247904016

Client Smp ID: RE15-10-8066

Inj Date : 02-MAR-2010 11:06

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247904016|1|

Misc Info : |ECD82P_1S|959468|SVA|LANL|SOIL|RE15-10-8066|||

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 03-Mar-2010 08:07 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 15

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2012.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	30.10000	Weight of sample extracted (g)
M	19.25680	% Moisture

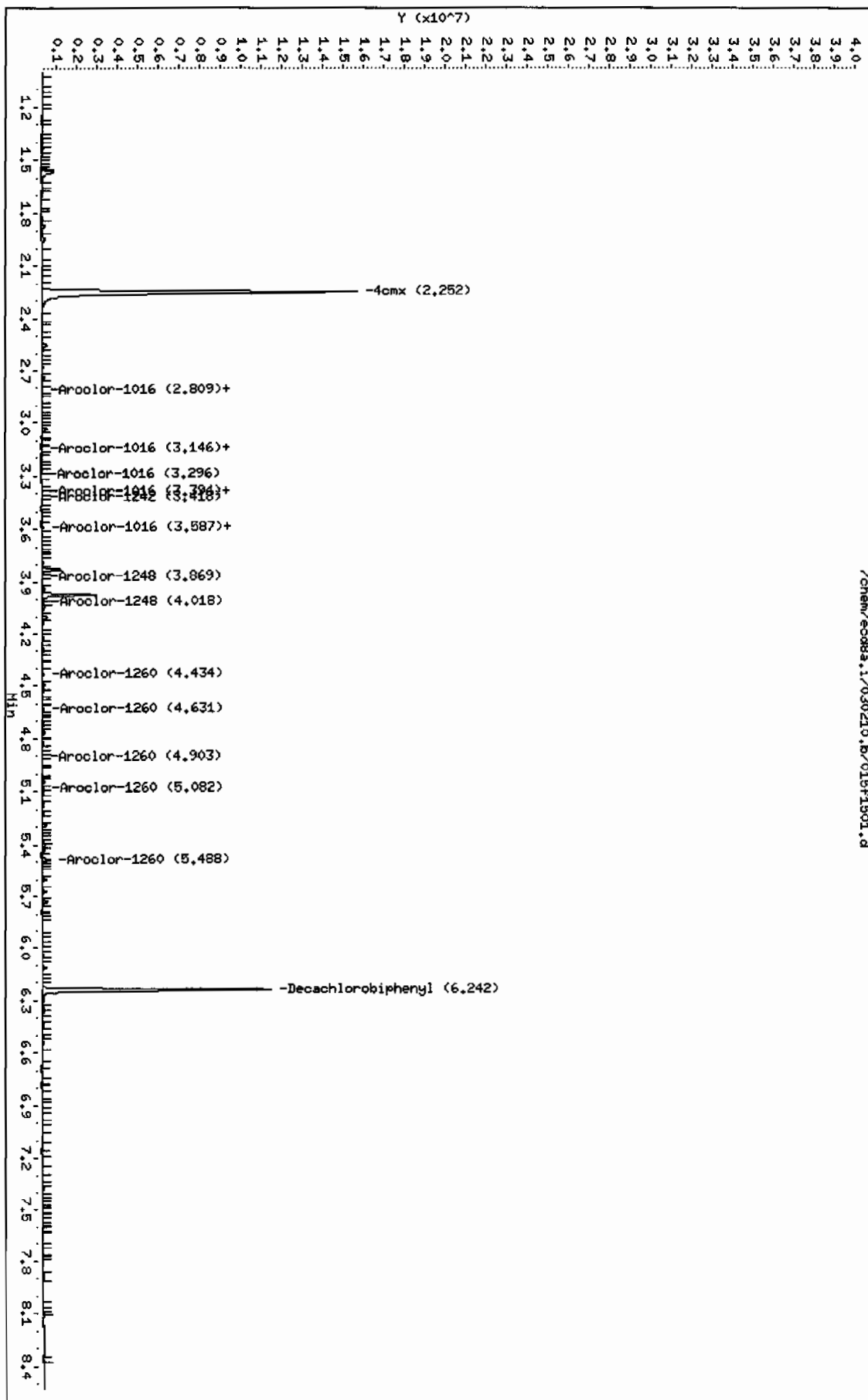
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8		
2.252	2.251	0.001	17848129	141.641	5.8 80.00- 120.00	100.00	
					CAS #: 2051-24-3		
6.242	6.243	-0.001	10344899	114.538	4.7 80.00- 120.00	100.00	

Data File: /chem/ec08a.i/030210.b/015f1501.d
 Date: 02-MAR-2010 11:06
 Client ID: RE15-10-8066
 Sample Info: 124790401611
 Volume Injected (uL): 1.0
 Column Phase: CLP1

Instrument: ec08a.i
 Operator: JADC
 Column diameter: 0.25

/chem/ec08a.i/030210.b/015f1501.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/015b1501.d

Lab Smp Id: 247904016

Client Smp ID: RE15-10-8066

Inj Date : 02-MAR-2010 11:06

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247904016|1|

Misc Info : |ECD82P_1S|959468|SVA|LANL|SOIL|RE15-10-8066|

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 15

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2012.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	30.10000	Weight of sample extracted (g)
M	19.25680	% Moisture

Cpnd Variable

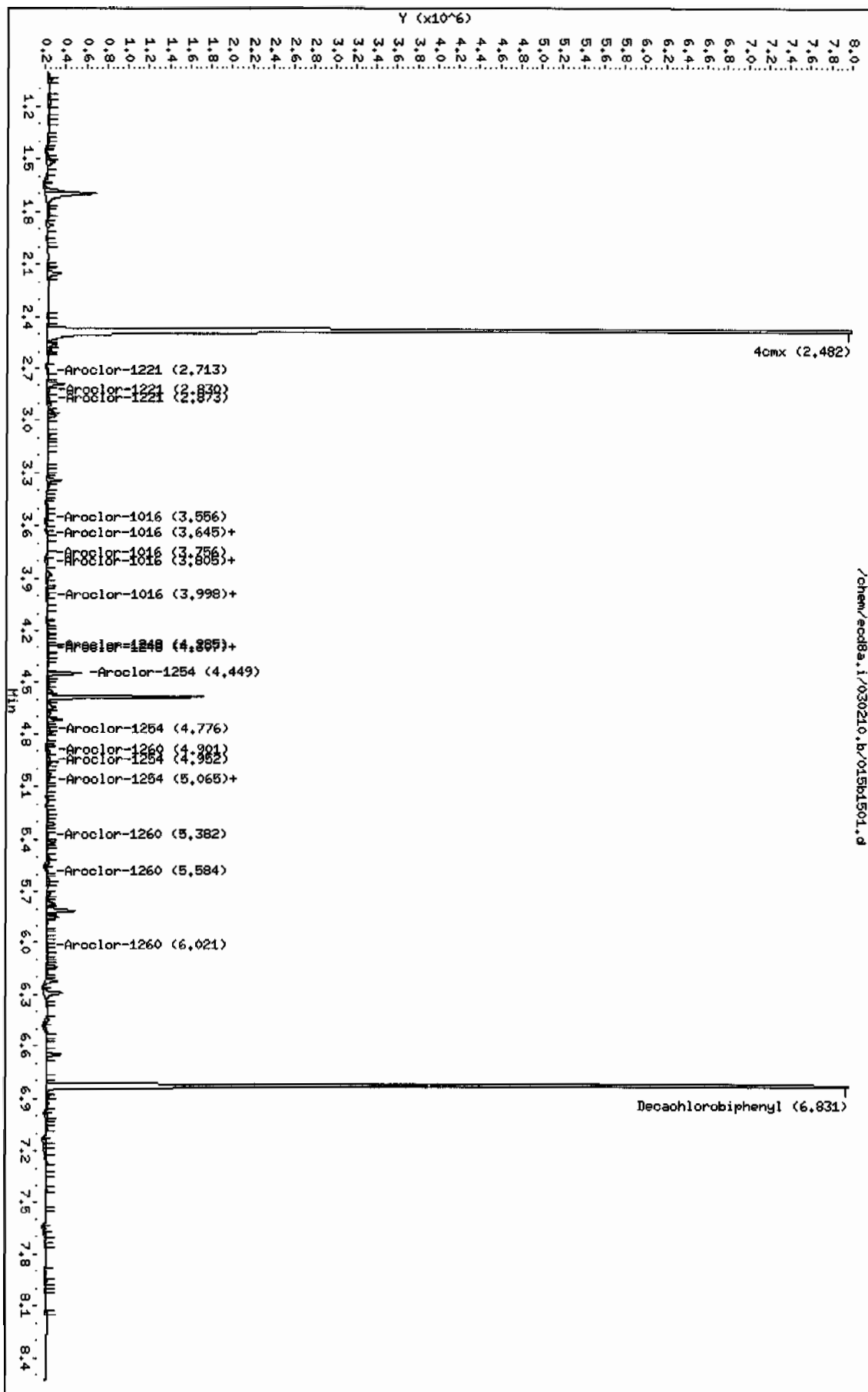
Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx							CAS #: 877-09-8	
2.482	2.482	0.000	12228119	148.265	6.1	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl							CAS #: 2051-24-3	
6.831	6.832	-0.001	9170459	148.780	6.1	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/030210.b/015b1501.d
 Date : 02-MAR-2010 11:06
 Client ID: RE15-10-8066
 Sample Info: 124790401611
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecd8a.i
 Operator: JNOC
 Column diameter: 0.25



STANDARDS DATA

Report Date: 03-Mar-2010 11:00

Calibration History

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 23-FEB-2010 11:32

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
23-FEB-2010 10:43	AR1221	/chem/ecd8a.i/022310.b/013f1301.d
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
23-FEB-2010 09:28	AR1660	/chem/ecd8a.i/022310.b/007f0701.d

Cal Level: 2 , Cal Amount: 250.00000		
23-FEB-2010 10:55	AR1221	/chem/ecd8a.i/022310.b/014f1401.d
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
23-FEB-2010 09:41	AR1660	/chem/ecd8a.i/022310.b/008f0801.d

Cal Level: 3 , Cal Amount: 500.00000		
23-FEB-2010 11:07	AR1221	/chem/ecd8a.i/022310.b/015f1501.d
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
23-FEB-2010 09:53	AR1660	/chem/ecd8a.i/022310.b/009f0901.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
23-FEB-2010 11:20	AR1221	/chem/ecd8a.i/022310.b/016f1601.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
23-FEB-2010 10:05	AR1660	/chem/ecd8a.i/022310.b/010f1001.d

Cal Level: 5 , Cal Amount: 4000.00000		
23-FEB-2010 11:32	AR1221	/chem/ecd8a.i/022310.b/017f1701.d
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
23-FEB-2010 10:18	AR1660	/chem/ecd8a.i/022310.b/011f1101.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 16:57	AR1660	/chem/ecd8a.i/030210.b/042f4201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 15:14	AR1660	/chem/ecd8a.i/030210.b/034f3401.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 12:37	AR1660	/chem/ecd8a.i/030210.b/022f2201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 09:52	AR1268	/chem/ecd8a.i/030210.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 09:39	AR1262	/chem/ecd8a.i/030210.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 09:27	AR1221	/chem/ecd8a.i/030210.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 09:15	AR1232	/chem/ecd8a.i/030210.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 09:02	AR1248	/chem/ecd8a.i/030210.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 08:50	AR1242	/chem/ecd8a.i/030210.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 08:37	AR1254	/chem/ecd8a.i/030210.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 08:25	AR1660	/chem/ecd8a.i/030210.b/002f0201.d

Report Date: 03-Mar-2010 10:59

Calibration History

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 23-FEB-2010 11:32

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
23-FEB-2010 10:43	AR1221	/chem/ecd8a.i/022310.b/013b1301.d
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
23-FEB-2010 09:28	AR1660	/chem/ecd8a.i/022310.b/007b0701.d
Cal Level: 2 , Cal Amount: 250.00000		
23-FEB-2010 10:55	AR1221	/chem/ecd8a.i/022310.b/014b1401.d
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
23-FEB-2010 09:41	AR1660	/chem/ecd8a.i/022310.b/008b0801.d
Cal Level: 3 , Cal Amount: 500.00000		
23-FEB-2010 11:07	AR1221	/chem/ecd8a.i/022310.b/015b1501.d
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
23-FEB-2010 09:53	AR1660	/chem/ecd8a.i/022310.b/009b0901.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
23-FEB-2010 11:20	AR1221	/chem/ecd8a.i/022310.b/016b1601.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
23-FEB-2010 10:05	AR1660	/chem/ecd8a.i/022310.b/010b1001.d
Cal Level: 5 , Cal Amount: 4000.00000		
23-FEB-2010 11:32	AR1221	/chem/ecd8a.i/022310.b/017b1701.d
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
23-FEB-2010 10:18	AR1660	/chem/ecd8a.i/022310.b/011b1101.d

Ccal Level Mode: GLOBAL LEVEL 4

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 03-Mar-2010 08:07 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	2.808	2.778-2.838	4.551e+03
	3.161	3.131-3.191	5.610e+03
	3.304	3.274-3.334	2.392e+03
	3.397	3.367-3.427	2.141e+03
	3.559	3.529-3.589	3.099e+03
2 Aroclor-1221	2.391	2.361-2.421	1.568e+03
	2.506	2.476-2.536	9.154e+02
	2.538	2.508-2.568	3.573e+03
3 Aroclor-1232	2.538	2.508-2.568	2.601e+03
	2.810	2.780-2.840	2.261e+03
	3.305	3.275-3.335	1.243e+03
	3.559	3.529-3.589	1.479e+03
4 Aroclor-1242	3.621	3.591-3.651	9.227e+02
	2.809	2.779-2.839	3.974e+03
	3.160	3.130-3.190	4.796e+03
	3.396	3.366-3.426	1.805e+03
	3.414	3.384-3.444	1.889e+03
5 Aroclor-1248	3.559	3.529-3.589	2.645e+03
	3.146	3.116-3.176	2.990e+03
	3.396	3.366-3.426	3.823e+03
	3.558	3.528-3.588	5.000e+03
	3.864	3.834-3.894	5.990e+03
	4.024	3.994-4.054	4.826e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.834	3.804-3.864	4.785e+03
	4.021	3.991-4.051	6.569e+03
	4.216	4.186-4.246	5.138e+03
	4.303	4.273-4.333	8.797e+03
	4.499	4.469-4.529	6.914e+03
7 Aroclor-1260	4.433	4.403-4.463	6.476e+03
	4.629	4.599-4.659	9.548e+03
	4.904	4.874-4.934	5.666e+03
	5.077	5.047-5.107	5.904e+03
	5.488	5.458-5.518	6.229e+03
8 Aroclor-1262	4.333	4.303-4.363	3.367e+03
	4.432	4.402-4.462	5.243e+03
	4.628	4.598-4.658	7.103e+03
	4.903	4.873-4.933	8.580e+03
	5.075	5.045-5.105	7.966e+03
9 Aroclor-1268	5.510	5.480-5.540	1.632e+04
	5.537	5.507-5.567	1.572e+04
	5.671	5.641-5.701	1.207e+04
	5.916	5.886-5.946	6.023e+03
	6.113	6.083-6.143	3.601e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.251	2.221-2.281	1.260e+05
\$ 12 Decachlorobiphenyl	6.243	6.213-6.273	9.032e+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/030210.b/ECD8-B-8082-020310a.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 03-Mar-2010 08:08 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	3.554	3.524-3.584	3.619e+03
	3.653	3.623-3.683	2.410e+03
	3.729	3.699-3.759	1.453e+03
	3.805	3.775-3.835	1.434e+03
	4.001	3.971-4.031	1.958e+03
2 Aroclor-1221	2.721	2.691-2.751	9.481e+02
	2.834	2.804-2.864	5.911e+02
	2.883	2.853-2.913	2.179e+03
3 Aroclor-1232	3.201	3.171-3.231	1.515e+03
	3.554	3.524-3.584	1.744e+03
	3.653	3.623-3.683	1.176e+03
	3.730	3.700-3.760	7.101e+02
4 Aroclor-1242	3.805	3.775-3.835	6.182e+02
	3.200	3.170-3.230	2.677e+03
	3.554	3.524-3.584	3.126e+03
	3.653	3.623-3.683	2.127e+03
	4.001	3.971-4.031	1.703e+03
5 Aroclor-1248	4.090	4.060-4.120	1.567e+03
	3.652	3.622-3.682	1.427e+03
	3.804	3.774-3.834	2.467e+03
	4.001	3.971-4.031	3.089e+03
	4.279	4.249-4.309	3.647e+03
	4.312	4.282-4.342	4.004e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	4.307	4.277-4.337	3.450e+03
	4.446	4.416-4.476	3.910e+03
	4.775	4.745-4.805	5.500e+03
	4.937	4.907-4.967	4.011e+03
	5.062	5.032-5.092	2.549e+03
7 Aroclor-1260	4.915	4.885-4.945	3.967e+03
	5.063	5.033-5.093	4.809e+03
	5.380	5.350-5.410	3.680e+03
	5.588	5.558-5.618	3.826e+03
	6.018	5.988-6.048	5.994e+03
8 Aroclor-1262	4.914	4.884-4.944	3.276e+03
	5.062	5.032-5.092	3.827e+03
	5.379	5.349-5.409	5.446e+03
	5.587	5.557-5.617	5.047e+03
	6.016	5.986-6.046	7.196e+03
9 Aroclor-1268	6.013	5.983-6.043	1.138e+04
	6.045	6.015-6.075	1.041e+04
	6.224	6.194-6.254	8.192e+03
	6.421	6.391-6.451	4.057e+03
	6.650	6.620-6.680	2.464e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.482	2.452-2.512	8.247e+04
\$ 12 Decachlorobiphenyl	6.832	6.802-6.862	6.164e+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 : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m
 Cal Date : 03-Mar-2010 08:07 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/022310.b/013f1301.d
 Level 2: /chem/ecd8a.i/022310.b/014f1401.d
 Level 3: /chem/ecd8a.i/022310.b/015f1501.d
 Level 4: /chem/ecd8a.i/020310a.b/036f3601.d
 Level 5: /chem/ecd8a.i/022310.b/017f1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	5184	5051	4636	4164	3722	4551	13.432
(2)	5955	5983	5682	5356	5075	5610	6.983
(3)	2525	2613	2438	2236	2150	2392	8.137
(4)	2419	2376	2156	1934	1819	2141	12.343
(5)	3374	3397	3129	2891	2705	3099	9.729
2 Aroclor-1221(1)	1843	1746	1580	1468	1203	1568	15.964
(2)	1118	1046	917	835	660	915	19.675
(3)	4334	3992	3544	3325	2672	3573	17.859
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 : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m
 Cal Date : 03-Mar-2010 08:07 jen01212
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
7 Aroclor-1260(1)	7011	7159	6444	6079	5685	6476	9.568
(2)	10286	10384	9540	9039	8493	9548	8.467
(3)	6319	6091	5552	5308	5058	5666	9.329
(4)	6626	6271	5777	5525	5322	5904	9.102
(5)	6986	6455	6034	5888	5781	6229	7.946
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	129289	131757	127787	121546	119668	126009	4.106
12 Decachlorobiphenyl	104555	92006	87870	84335	82825	90318	9.644

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m
 Cal Date : 03-Mar-2010 08:08 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/022310.b/013b1301.d
 Level 2: /chem/ecd8a.i/022310.b/014b1401.d
 Level 3: /chem/ecd8a.i/022310.b/015b1501.d
 Level 4: /chem/ecd8a.i/020310a.b/036b3601.d
 Level 5: /chem/ecd8a.i/022310.b/017b1701.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)	3700	3563	3621	3616	3597	3619	1.393
(2)	2616	2439	2406	2318	2272	2410	5.524
(3)	1536	1447	1442	1402	1439	1453	3.402
(4)	1585	1460	1422	1359	1342	1434	6.769
(5)	2095	1991	1936	1896	1874	1958	4.503
2 Aroclor-1221(1)	1008	1017	964	925	826	948	8.179
(2)	642	644	604	571	494	591	10.518
(3)	2384	2349	2220	2116	1827	2179	10.256
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 : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m
 Cal Date : 03-Mar-2010 08:08 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)	4253	3988	3955	3849	3788	3967	4.519
(2)	5113	4816	4799	4685	4631	4809	3.886
(3)	3914	3673	3654	3574	3584	3680	3.741
(4)	4047	3810	3802	3720	3750	3826	3.378
(5)	6273	5947	5927	5853	5968	5994	2.707
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
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	82185	80840	82752	82147	84451	82475	1.586
12 Decachlorobiphenyl	65682	61409	60606	59658	60834	61638	3.808

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.: 10-2012
 Instrument ID: ECD8A Calibration Date: 03/02/10 Time: 0825
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4551.274	4642.847	0.01	2.0	15.0
(2)	5610.061	5892.034	0.01	5.0	15.0
(3)	2392.299	2509.676	0.01	4.9	15.0
(4)	2140.620	2170.596	0.01	1.4	15.0
(5)	3099.161	3182.047	0.01	2.7	15.0
Aroclor-1260	6475.551	6594.858	0.01	1.8	15.0
(2)	9548.264	9687.249	0.01	1.4	15.0
(3)	5665.674	5712.376	0.01	0.8	15.0
(4)	5904.028	5983.896	0.01	1.4	15.0
(5)	6228.823	6392.211	0.01	2.6	15.0
4cmx	126009.40	136931.40	0.01	8.7	15.0
Decachlorobiphenyl	90318.109	92232.090	0.01	2.1	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2012
 Instrument ID: ECD8A Calibration Date: 03/02/10 Time: 0825
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3619.456	4093.659	0.01	13.1	15.0
(2)	2410.146	2663.473	0.01	10.5	15.0
(3)	1453.120	1608.645	0.01	10.7	15.0
(4)	1433.781	1558.556	0.01	8.7	15.0
(5)	1958.294	2176.796	0.01	11.2	15.0
Aroclor-1260	3966.597	4416.983	0.01	11.4	15.0
(2)	4809.043	5369.915	0.01	11.7	15.0
(3)	3679.792	4078.929	0.01	10.8	15.0
(4)	3825.801	4244.972	0.01	11.0	15.0
(5)	5993.805	6584.628	0.01	9.8	15.0
4cmx	82474.964	94563.800	0.01	14.6	15.0
Decachlorobiphenyl	61637.648	66251.610	0.01	7.5	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.: 10-2012
 Instrument ID: ECD8A Calibration Date: 03/02/10 Time: 1237
 Lab File ID: 022F2201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4551.274	4465.642	0.01	-1.9	15.0
(2)	5610.061	5696.197	0.01	1.5	15.0
(3)	2392.299	2402.031	0.01	0.4	15.0
(4)	2140.620	2094.375	0.01	-2.2	15.0
(5)	3099.161	3066.717	0.01	-1.0	15.0
Aroclor-1260	6475.551	6479.013	0.01	0.0	15.0
(2)	9548.264	9607.495	0.01	0.6	15.0
(3)	5665.674	5640.650	0.01	-0.4	15.0
(4)	5904.028	5891.638	0.01	-0.2	15.0
(5)	6228.823	6287.413	0.01	0.9	15.0
4cmx	126009.40	130739.86	0.01	3.8	15.0
Decachlorobiphenyl	90318.109	89520.260	0.01	-0.9	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.: 10-2012
 Instrument ID: ECD8A Calibration Date: 03/02/10 Time: 1237
 Lab File ID: 022B2201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3619.456	3920.259	0.01	8.3	15.0
(2)	2410.146	2561.701	0.01	6.3	15.0
(3)	1453.120	1553.071	0.01	6.9	15.0
(4)	1433.781	1495.511	0.01	4.3	15.0
(5)	1958.294	2092.451	0.01	6.8	15.0
Aroclor-1260	3966.597	4261.051	0.01	7.4	15.0
(2)	4809.043	5196.899	0.01	8.1	15.0
(3)	3679.792	3962.577	0.01	7.7	15.0
(4)	3825.801	4109.795	0.01	7.4	15.0
(5)	5993.805	6403.586	0.01	6.8	15.0
4cmx	82474.964	90047.380	0.01	9.2	15.0
Decachlorobiphenyl	61637.648	63433.670	0.01	2.9	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/002f0201.d

Lab Smp Id: WAR100225-60 01

Client Smp ID: AR166001

Inj Date : 02-MAR-2010 08:25

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
2.251	2.251	0.000	13693140 100.000	109	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.243	6.243	0.000	9223209 100.000	102	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.808	2.808	0.000	4642846 1000.00	1020	80.00- 120.00	100.00
3.161	3.161	0.000	5892033 1000.00	1050	110.02- 150.02	126.91
3.304	3.304	0.000	2509676 1000.00	1050	33.62- 73.62	54.05
3.397	3.397	0.000	2170596 1000.00	1010	27.47- 67.47	46.75
3.559	3.559	0.000	3182046 1000.00	1030	47.53- 87.53	68.54
Average of Peak Amounts =			1.03e+03			

7 Aroclor-1260				CAS #: 11096-82-5		
4.433	4.433	0.000	6594857 1000.00	1020	80.00- 120.00	100.00
4.629	4.629	0.000	9687249 1000.00	1010	129.13- 169.13	146.89
4.904	4.904	0.000	5712376 1000.00	1010	67.89- 107.89	86.62
5.077	5.077	0.000	5983896 1000.00	1010	71.99- 111.99	90.74
5.488	5.488	0.000	6392210 1000.00	1030	78.98- 118.98	96.93
Average of Peak Amounts =			1.02e+03			

Data File: /chem/ecob8a.i/030210.b/002f0201.d

Date: 02-MAR-2010 08:25

Client ID: RPL66001

Sample Info: IWR100225-60 01

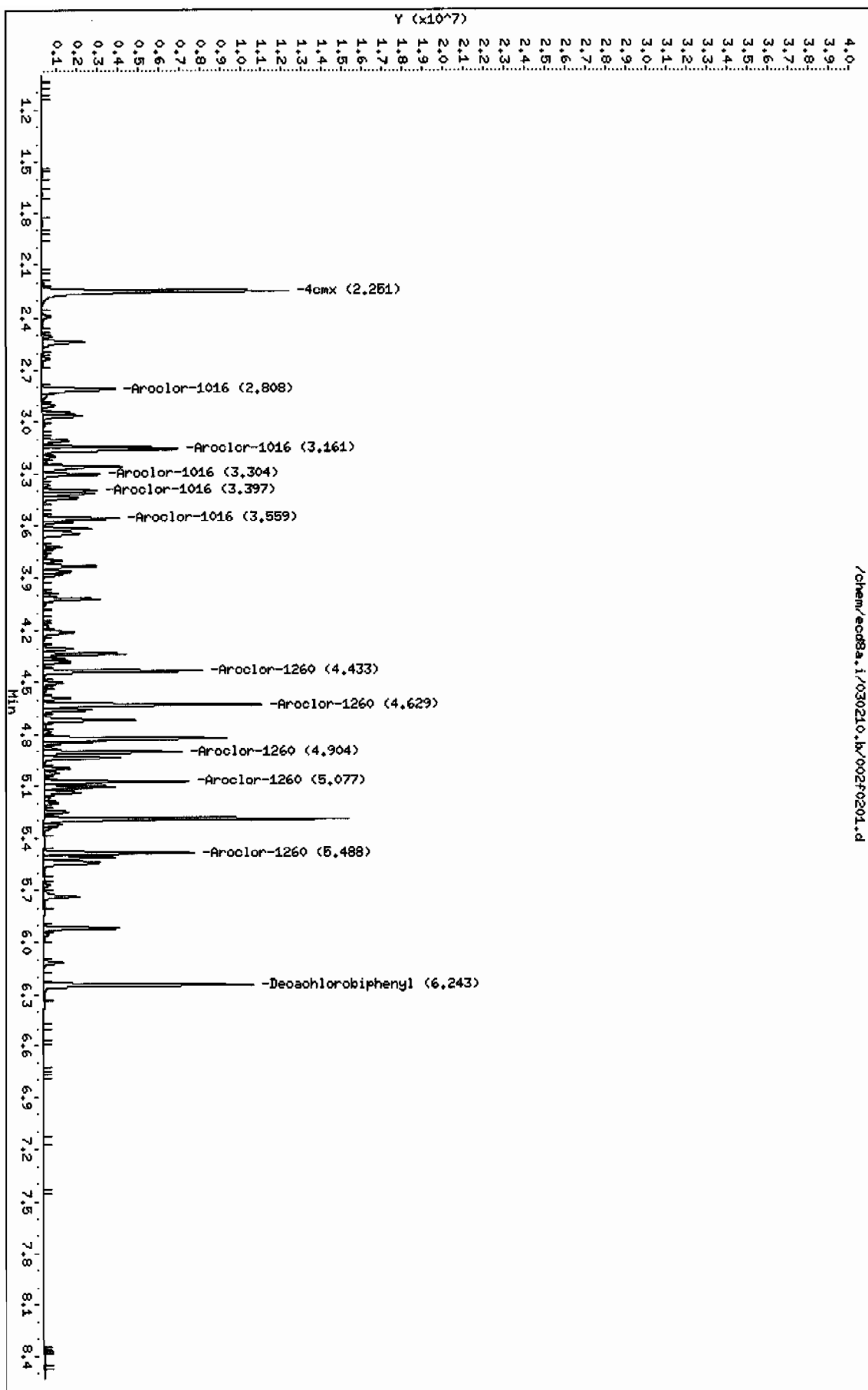
Page 1

Instrument: ecob8a.i

Operator: JADC

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/030210.b/002b0201.d

Lab Smp Id: WAR100225-60 01

Client Smp ID: AR166001

Inj Date : 02-MAR-2010 08:25

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212

Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 2

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

2.482	2.482	0.000	9456380	100.000	115 80.00- 120.00	100.00
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\$ 12 Decachlorobiphenyl

CAS #: 2051-24-3

6.832	6.832	0.000	6625161	100.000	107 80.00- 120.00	100.00
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1 Aroclor-1016

CAS #: 12674-11-2

3.554	3.554	0.000	4093658	1000.00	1130 80.00- 120.00	100.00
3.653	3.653	0.000	2663472	1000.00	1100 43.38- 83.38	65.06
3.729	3.729	0.000	1608645	1000.00	1110 18.56- 58.56	39.30
3.805	3.805	0.000	1558555	1000.00	1090 17.23- 57.23	38.07
4.001	4.001	0.000	2176795	1000.00	1110 32.04- 72.04	53.17

Average of Peak Amounts = 1.11e+03

7 Aroclor-1260

CAS #: 11096-82-5

4.915	4.915	0.000	4416982	1000.00	1110 80.00- 120.00	100.00
5.063	5.063	0.000	5369915	1000.00	1120 102.35- 142.35	121.57
5.380	5.380	0.000	4078928	1000.00	1110 73.01- 113.01	92.35
5.588	5.588	0.000	4244971	1000.00	1110 76.90- 116.90	96.11
6.018	6.018	0.000	6584628	1000.00	1100 131.73- 171.73	149.08

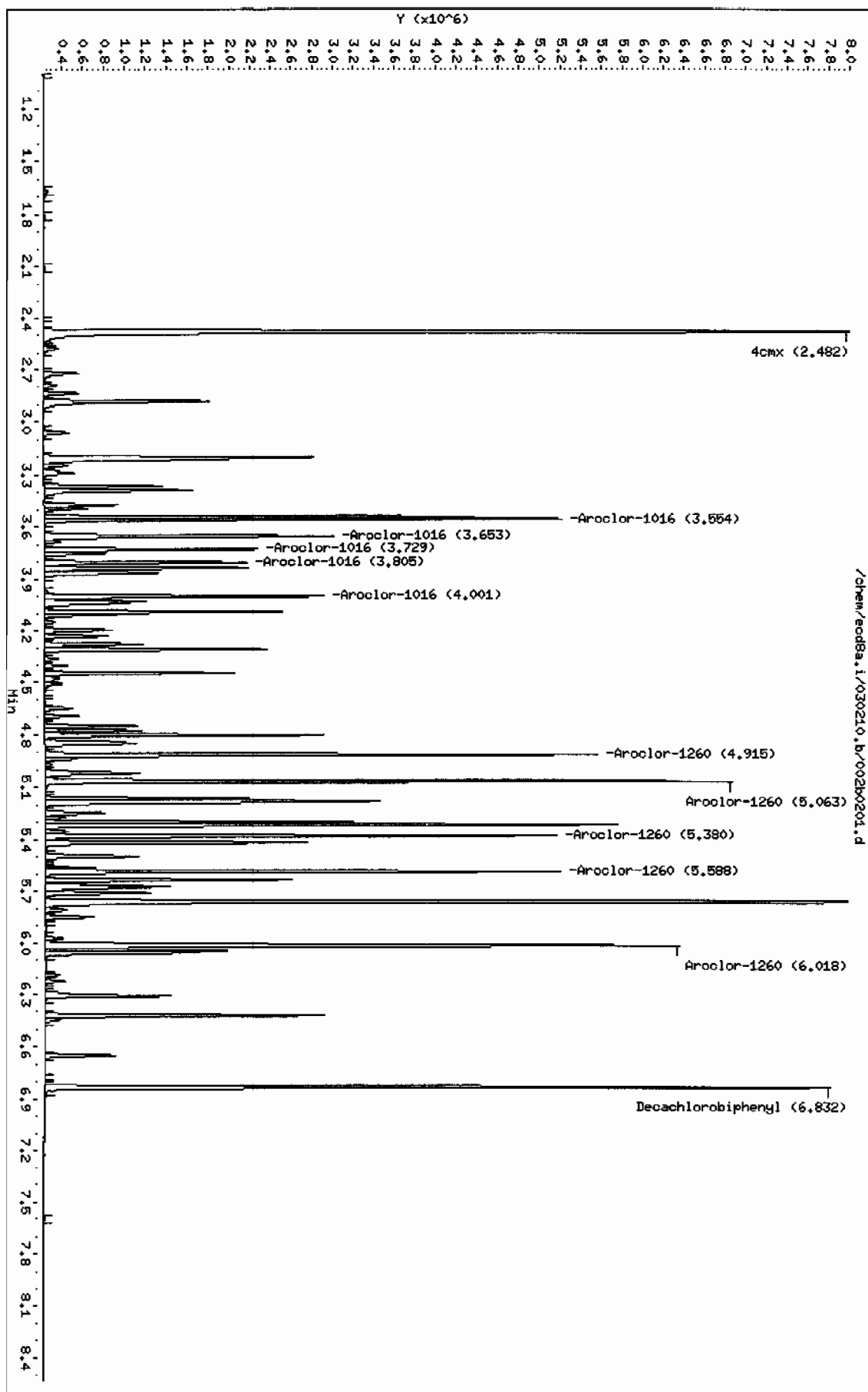
Average of Peak Amounts = 1.11e+03

Data File: /chem/ecdb8a.i/030210.b/002b0201.d
Date : 02-MAR-2010 08:25
Client ID: RRT6001
Sample Info: IMR100225-60 01

Column phase: CLP2

Instrument: ecdb8a.i

Operator: JHOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/003f0301.d

Lab Smp Id: WAR100201-54

Client Smp ID: AR125401

Inj Date : 02-MAR-2010 08:37

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1	
3.834	3.834	0.000	4808941 1000.00	1000	80.00- 120.00	100.00
4.021	4.021	0.000	6637153 1000.00	1010	118.02- 158.02	138.02
4.216	4.216	0.000	5235881 1000.00	1020	88.88- 128.88	108.88
4.303	4.303	0.000	8869923 1000.00	1010	164.45- 204.45	184.45
4.499	4.499	0.000	6772279 1000.00	980	120.83- 160.83	140.83
Average of Peak Amounts =			1e+03			

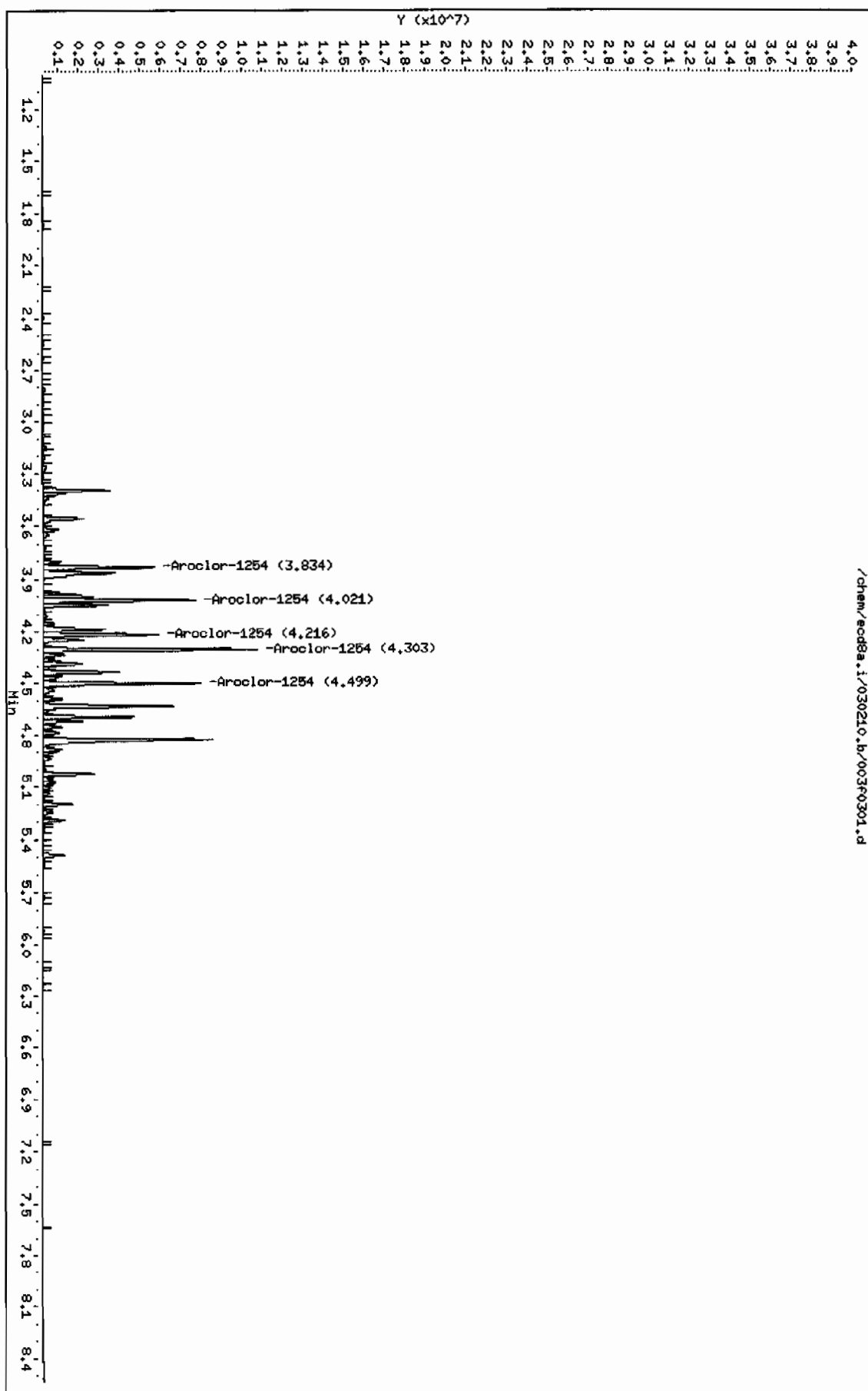
Data File: /chem/ecod8a.i/030210.b/003f0301.d
Date : 02-MAR-2010 08:37
Client ID: AR125401
Sample Info: IMR100201-54

Instrument: ecod8a.i

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Column phase: CLP1

Operator: JROC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/003b0301.d

Lab Smp Id: WAR100201-54

Client Smp ID: AR125401

Inj Date : 02-MAR-2010 08:37

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

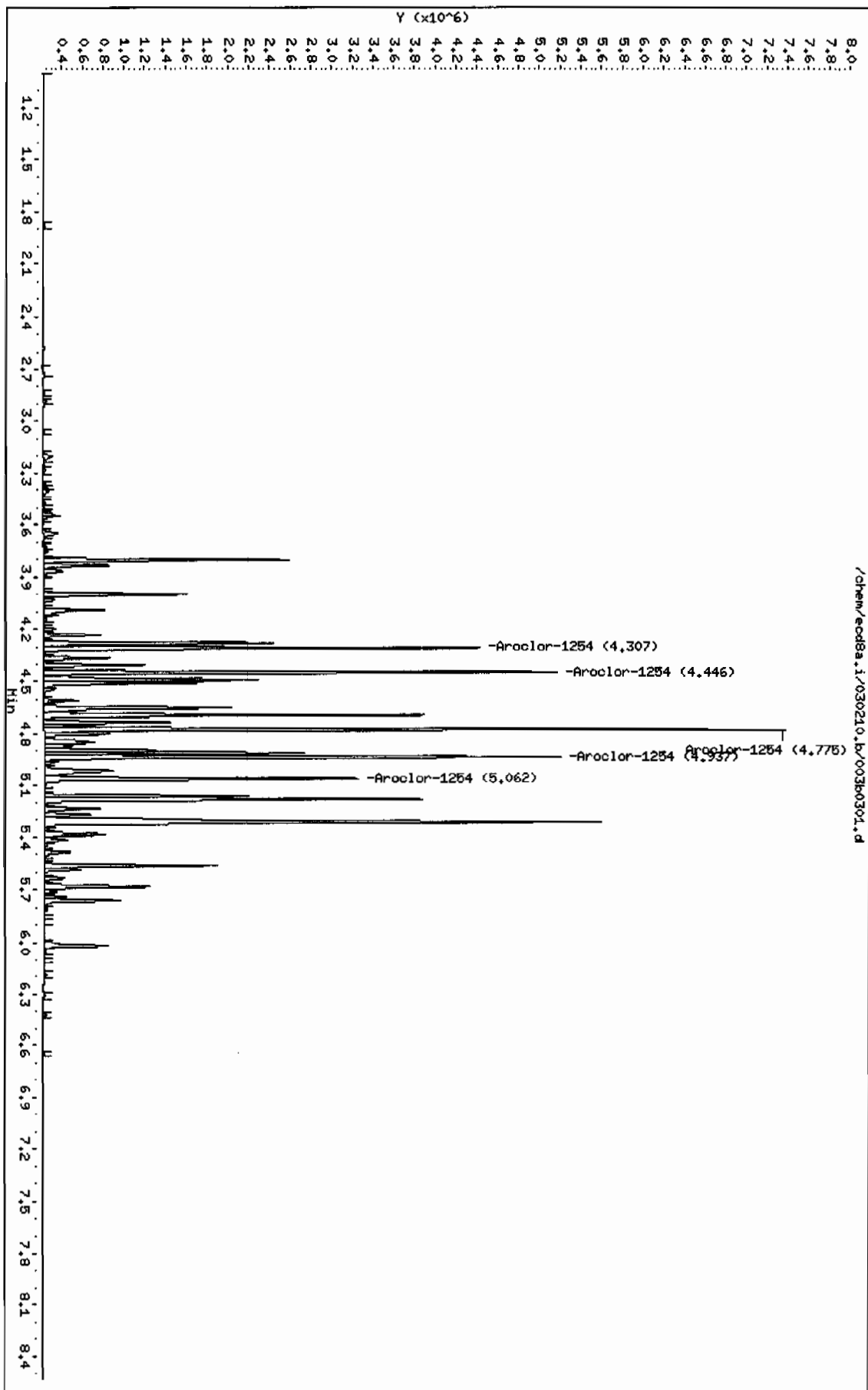
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1	
4.307	4.307	0.000	3580452 1000.00	1040	80.00- 120.00	100.00
4.446	4.446	0.000	4042779 1000.00	1030	92.91- 132.91	112.91
4.775	4.775	0.000	5740717 1000.00	1040	140.33- 180.33	160.33
4.937	4.937	0.000	4112011 1000.00	1020	94.85- 134.85	114.85
5.062	5.062	0.000	2620652 1000.00	1030	53.19- 93.19	73.19
Average of Peak Amounts =			1.03e+03			

Data File: /chem/ecod8a.i/030210.b/003b0301.d
Date : 02-MAR-2010 08:37
Client ID: AR123401
Sample Info: 11MAR100201-54

Column phase: CLP2

Instrument: ecod8a.i
Operator: JADC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 02-MAR-2010 08:50

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-42

Misc Info : |1242

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

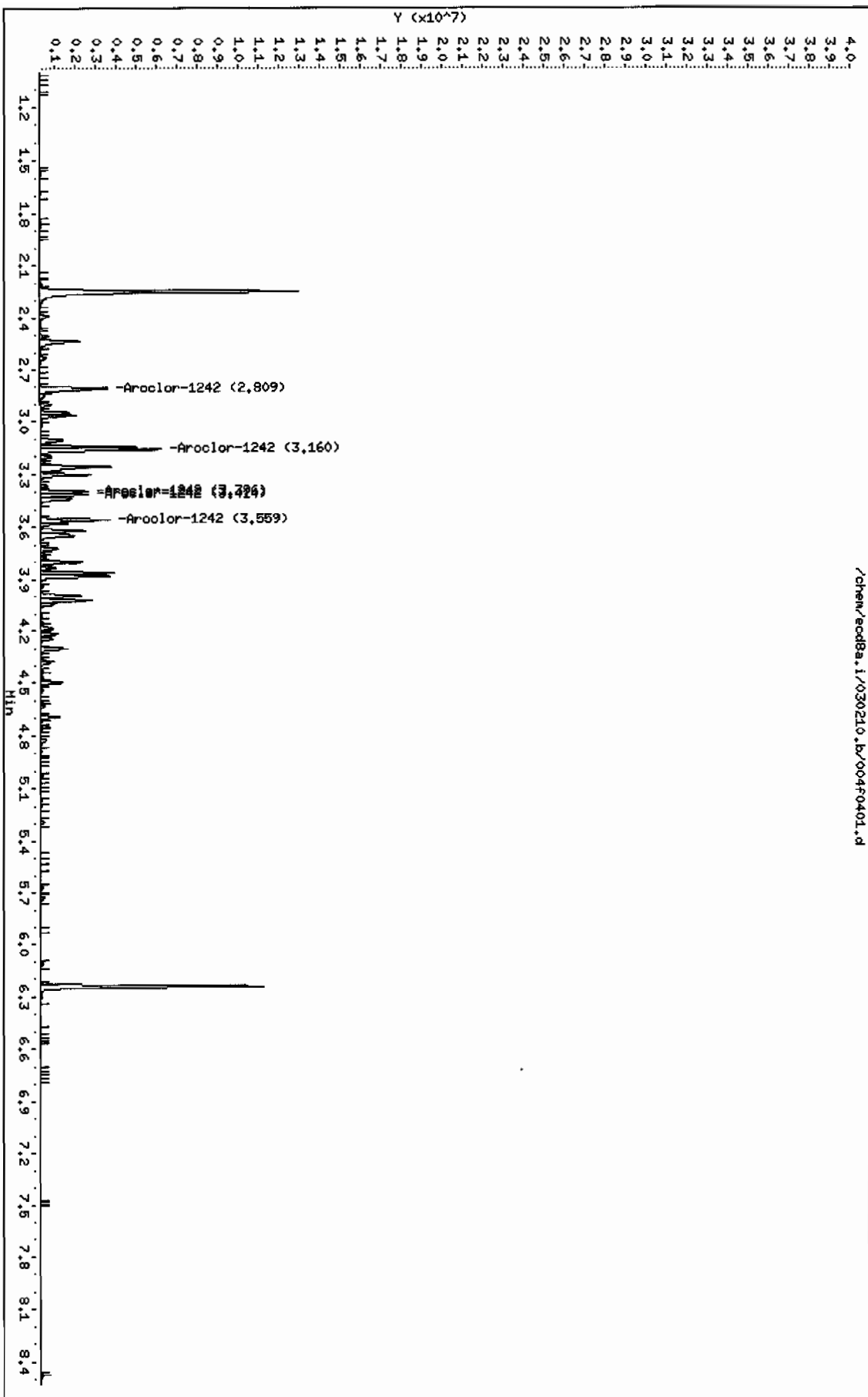
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4	Aroclor-1242				CAS #: 53469-21-9	
2.809	2.809	0.000	4191757 1000.00	1050	80.00- 120.00	100.00
3.160	3.160	0.000	5320612 1000.00	1110	106.93- 146.93	126.93
3.396	3.396	0.000	1897974 1000.00	1050	25.28- 65.28	45.28
3.414	3.414	0.000	2050793 1000.00	1080	28.92- 68.92	48.92
3.559	3.559	0.000	2871546 1000.00	1080	48.50- 88.50	68.50
Average of Peak Amounts =			1.08e+03			

Data File: /chem/ecob8a.i/030210.b/004f0401.d
Date : 02-MAR-2010 08:50
Client ID: PR124201
Sample Info: 1MAR091217-42

Column phase: CLP1

Instrument: ecob8a.i
Operator: JMO
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/004b0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 02-MAR-2010 08:50
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-42
Misc Info : |1242
Comment :
Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
4 Aroclor-1242			CAS #: 53469-21-9			
3.200	3.200	0.000	2892167 1000.00	1080	80.00- 120.00	100.00(M)
3.554	3.554	0.000	3583416 1000.00	1150	103.90- 143.90	123.90
3.653	3.653	0.000	2339147 1000.00	1100	60.88- 100.88	80.88
4.001	4.001	0.000	1871073 1000.00	1100	44.69- 84.69	64.69
4.090	4.090	0.000	1734052 1000.00	1110	39.96- 79.96	59.96
Average of Peak Amounts =			1.11e+03			

QC Flag Legend

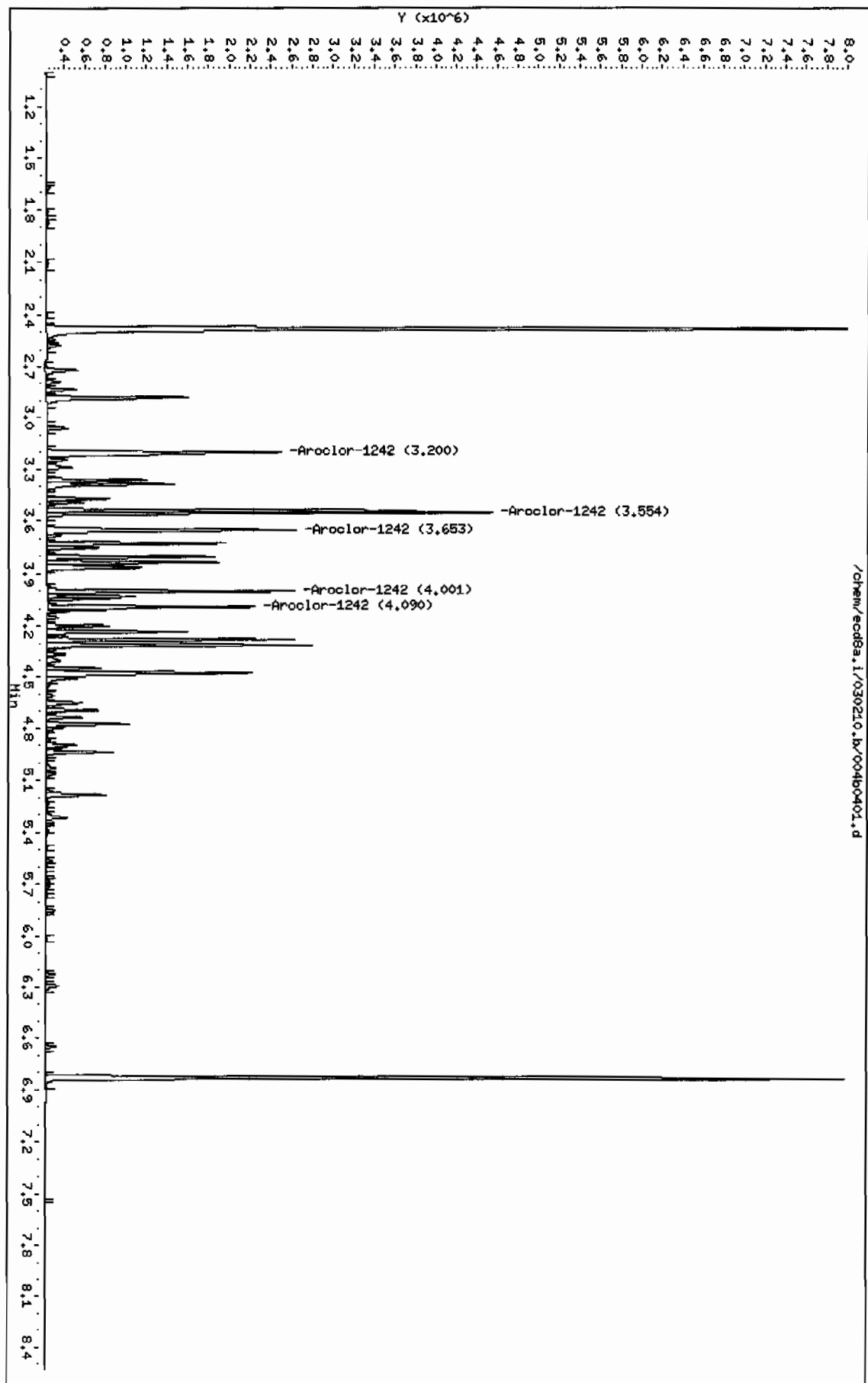
M - Compound response manually integrated.

Data File: /chem/ecod8a.i/030210.b/004b0401.d
Date: 02-MAR-2010 08:50
Client ID: AR124201
Sample Info: 1M6R091217-42

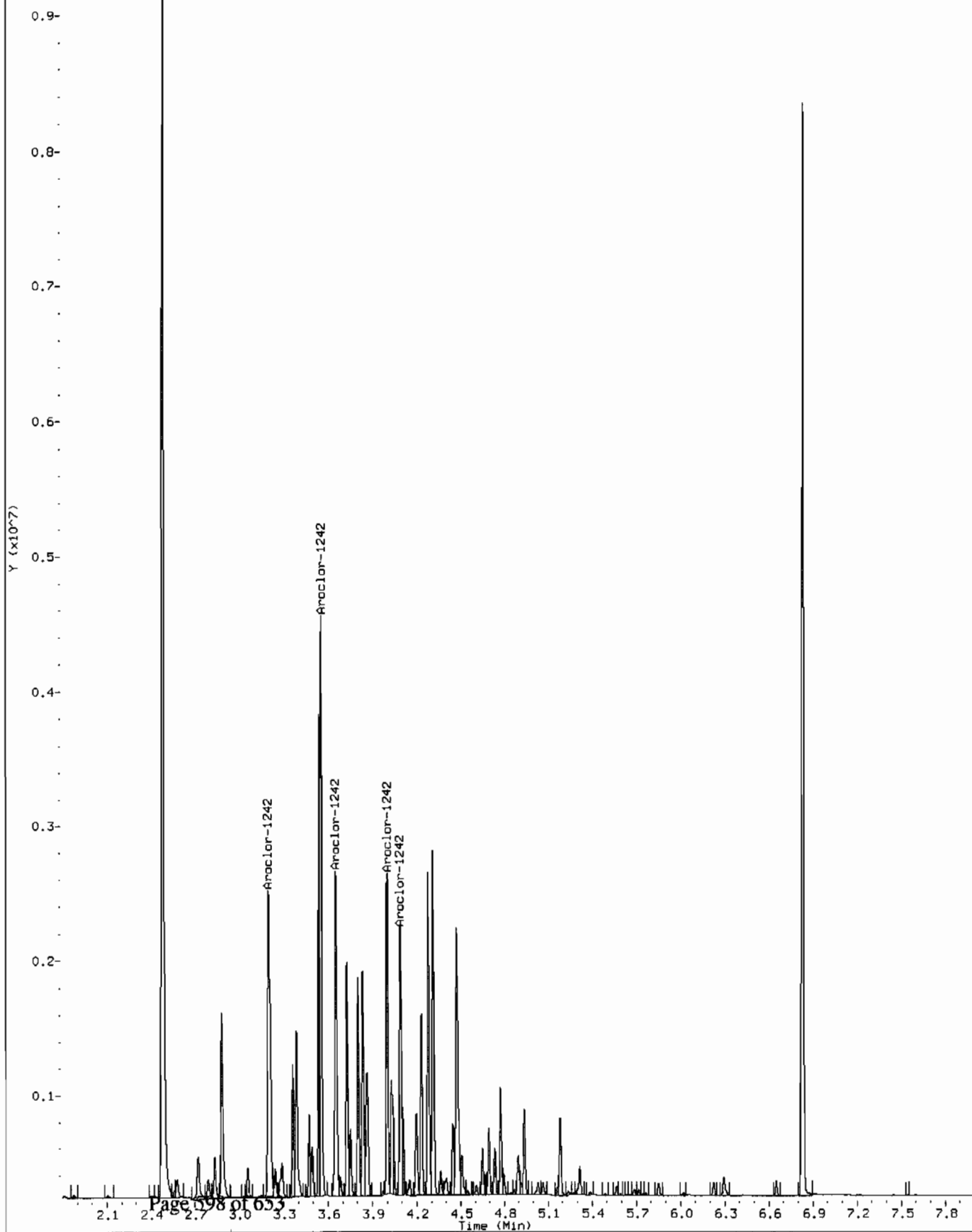
Column phase: CLP2

Instrument: ecod8a.i
Operator: JHOC
Column diameter: 0.25

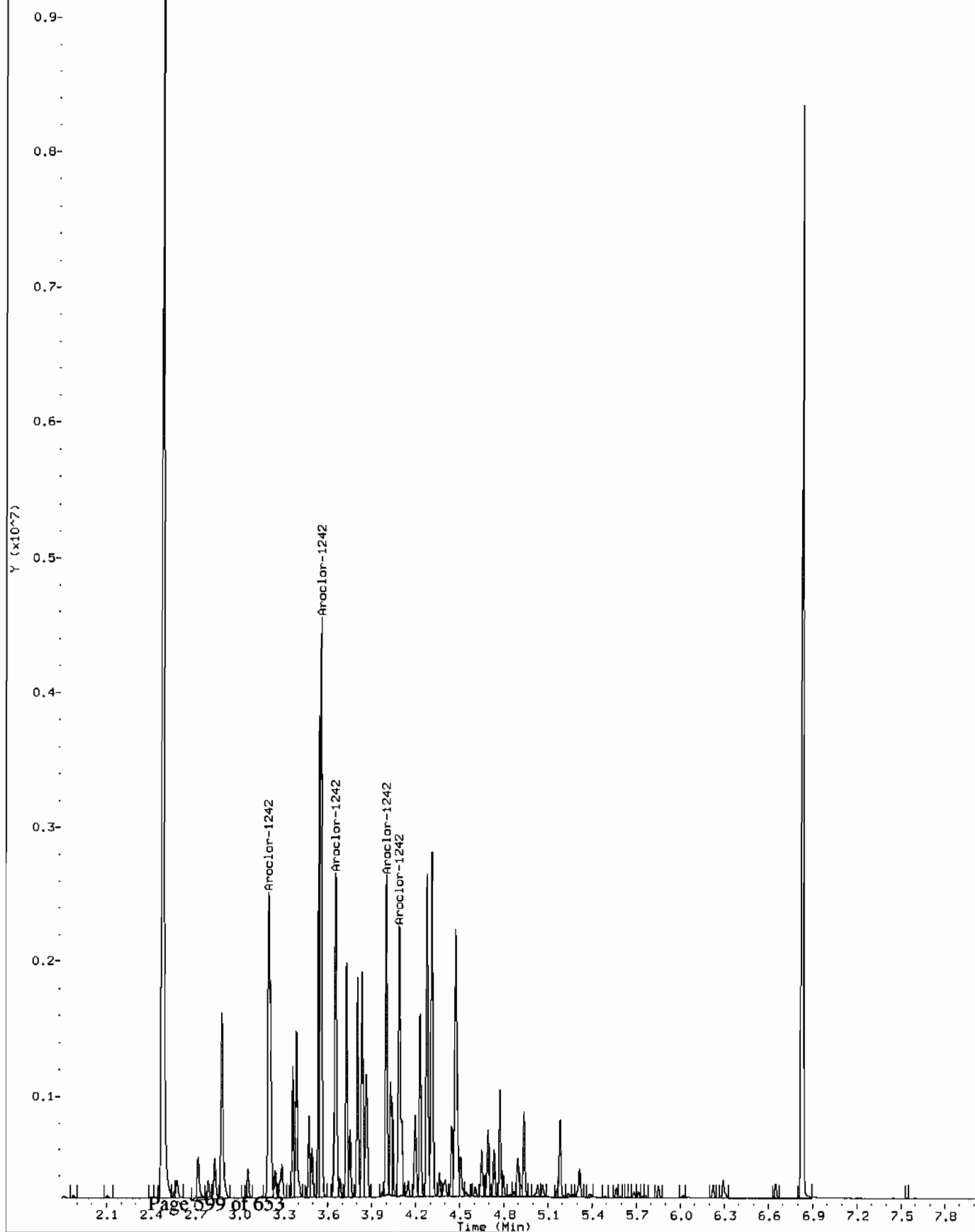
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Comment: Manually Integrated
Data File: /chem/ecd8a.i/030210.b/004b0401.d
Operator: JAOC
Injection Date: 02-MAR-2010 08:50
Instrument: ecd8a.i
Client Sample ID: AR124201



Comment: Before manual integration
Data File: /chem/ecd8a.i/030210.b/orig-004b0401.d
Operator: JAOC
Injection Date: 02-MAR-2010 08:50
Instrument: ecd8a.i
Client Sample ID: AR124201



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 02-MAR-2010 09:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-48

Misc Info : |1248

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.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			
3.146	3.146	0.000	2663093	1000.00	891 80.00- 120.00	100.00
3.396	3.396	0.000	3486162	1000.00	912 110.91- 150.91	130.91
3.558	3.558	0.000	4538107	1000.00	908 150.41- 190.41	170.41
3.864	3.864	0.000	5501368	1000.00	918 186.58- 226.58	206.58
4.024	4.024	0.000	4445048	1000.00	921 146.91- 186.91	166.91

Average of Peak Amounts =

910

Data File: /chem/ecd8a.i/030210.b/005f0501.d
Date : 02-MAR-2010 09:02
Client ID: ARL24801
Sample Info: IMR091217-48

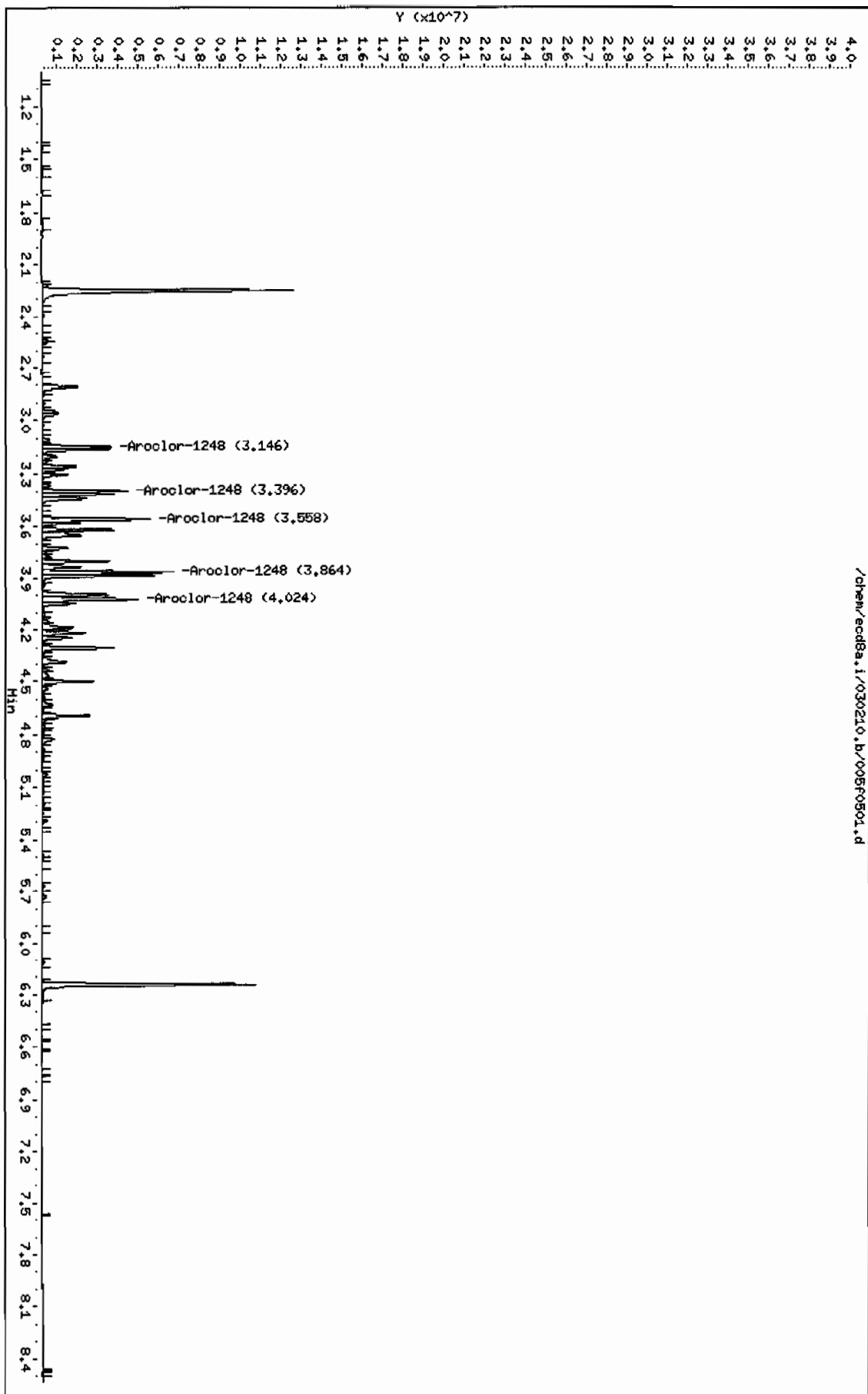
Instrument: ecd8a.i

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Column phase: CLP1

Operator: JMO
Column diameter: 0.25

/chem/ecd8a.i/030210.b/005f0501.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/005b0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 02-MAR-2010 09:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-48

Misc Info : |1248

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.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

3.652	3.652	0.000	1422014	1000.00	997 80.00- 120.00	100.00
3.804	3.804	0.000	2529839	1000.00	1020 157.91- 197.91	177.91
4.001	4.001	0.000	3207783	1000.00	1040 205.58- 245.58	225.58
4.279	4.279	0.000	3761648	1000.00	1030 244.53- 284.53	264.53
4.312	4.312	0.000	4145665	1000.00	1040 271.53- 311.53	291.53

Average of Peak Amounts = 1.03e+03

Data File: /chem/ecdb8a.i/030210.b/005b0501.d

Date : 02-MAR-2010 09:02

Client ID: AR124801

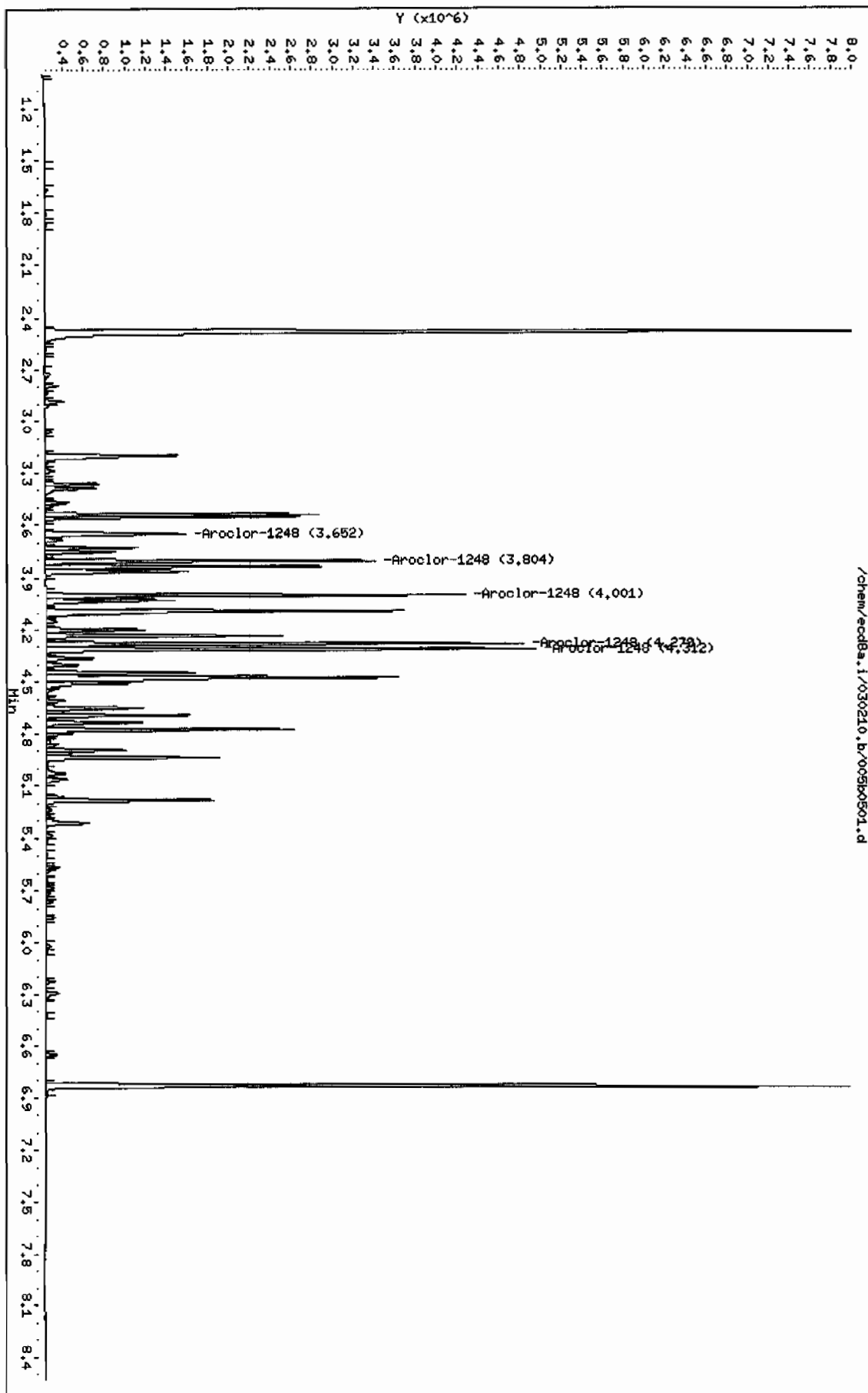
Sample Info: IWAR091217-48

Column phase: CLP2

Instrument: ecdb8a.i

Operator: JHOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/006f0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 02-MAR-2010 09:15

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-32

Misc Info : |1232

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212

Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====

3 Aroclor-1232

CAS #: 11141-16-5

2.538	2.538	0.000	2971184	1000.00	1140 80.00- 120.00	100.00
2.810	2.810	0.000	2587868	1000.00	1140 67.10- 107.10	87.10
3.305	3.305	0.000	1398165	1000.00	1120 27.06- 67.06	47.06
3.559	3.559	0.000	1688795	1000.00	1140 36.84- 76.84	56.84
3.621	3.621	0.000	1024388	1000.00	1110 14.48- 54.48	34.48

Average of Peak Amounts = 1.13e+03

Data File: /chem/ecod8a.i/030210.b/006f0601.d

Date: 02-MAR-2010 09:15

Client ID: AR423201

Sample Info: 1MAR100104-32

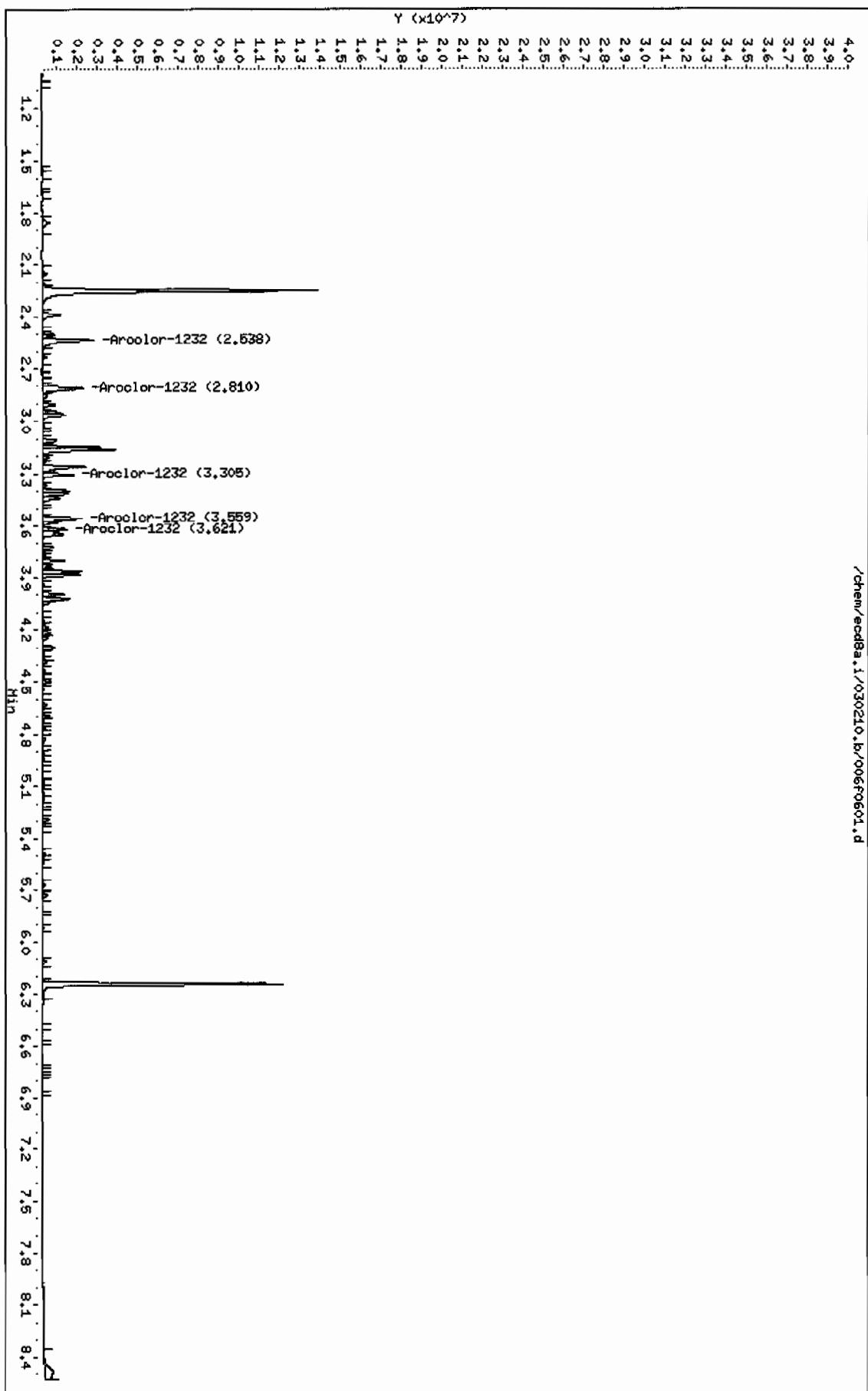
Column phase: CLP1

Instrument: ecod8a.i

Operator: JHOC

Column diameter: 0.25

/chem/ecod8a.i/030210.b/006f0601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/006b0601.d

Lab Smp Id: WAR100104-32 Client Smp ID: AR123201

Inj Date : 02-MAR-2010 09:15

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100104-32

Misc Info : |1232

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d

Als bottle: 6 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: AR1232.sub

Target Version: 3.50 Sample Matrix: None

AMOUNTS

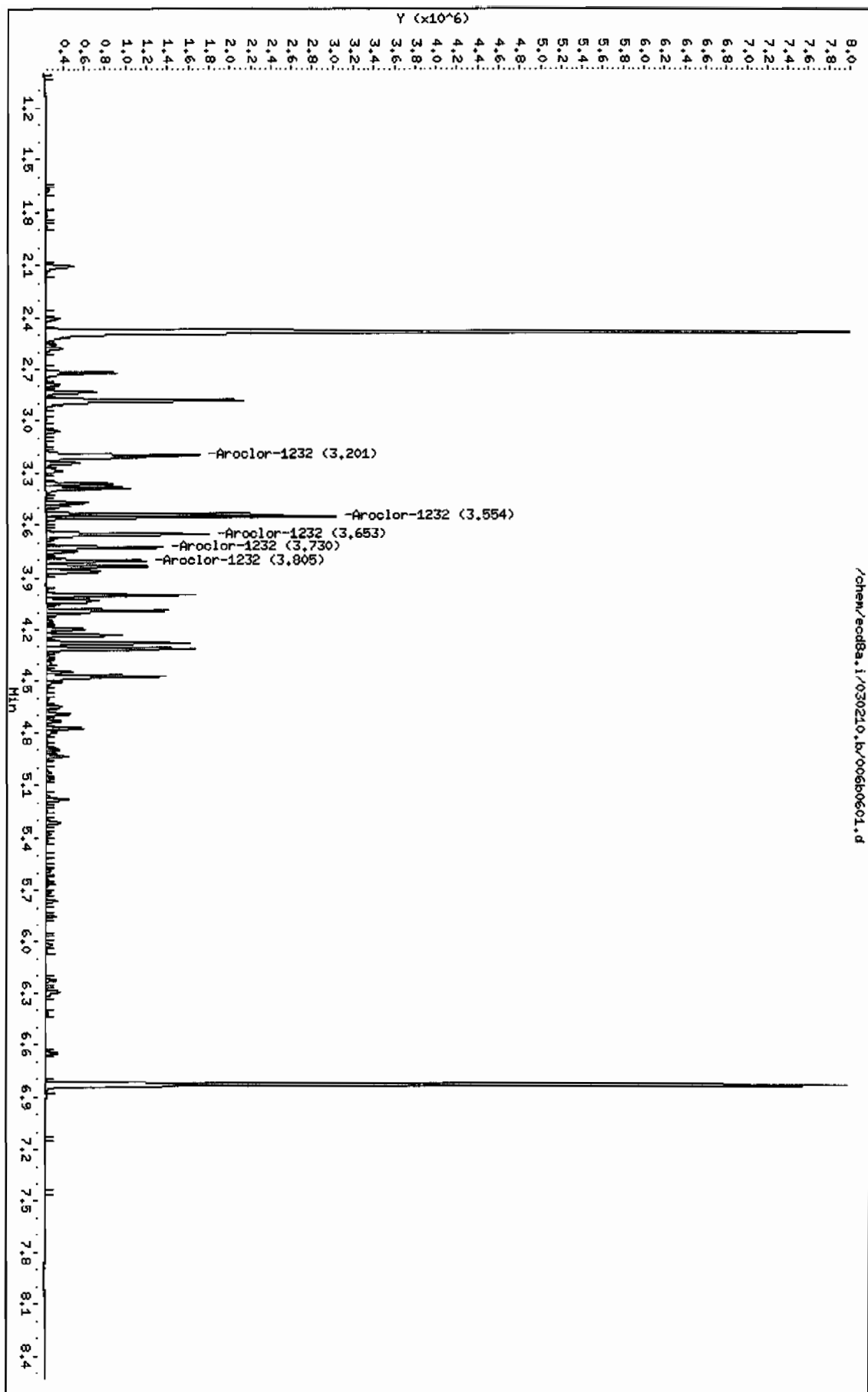
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
***	*****	*****	*****	*****	*****	*****	*****	
3 Aroclor-1232					CAS #: 11141-16-5			
3.201	3.201	0.000	1935861	1000.00	1280	80.00- 120.00	100.00	
3.554	3.554	0.000	2198493	1000.00	1260	93.57- 133.57	113.57	
3.653	3.653	0.000	1522599	1000.00	1290	58.65- 98.65	78.65	
3.730	3.730	0.000	915869	1000.00	1290	27.31- 67.31	47.31	
3.805	3.805	0.000	791031	1000.00	1280	20.86- 60.86	40.86	
Average of Peak Amounts =					1.28e+03			

Data File: /chem/eod8a.i/030210.b/0060601.d
Date : 02-MAR-2010 09:15
Client ID: AR123201
Sample Info: IMR100104-32

Column phase: CLP2

Instrument: eod8a.i
Operator: JAC
Column diameter: 0.25

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Data File: /chem/ecd8a.i/030210.b/007f0701.d
Report Date: 02-Mar-2010 15:45

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/007f0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 02-MAR-2010 09:27

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-21

Misc Info : |1221

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d

Als bottle: 7 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

2 Aroclor-1221

CAS #: 11104-28-2

2.391	2.391	0.000	1606498 1000.00	1020 80.00- 120.00	100.00
2.506	2.506	0.000	898609 1000.00	982 35.94- 75.94	55.94
2.538	2.538	0.000	3697763 1000.00	1030 210.18- 250.18	230.18

Average of Peak Amounts = 1.01e+03

Data File: /chem/ecodba.i/030210.b/007f0701.d
Date : 02-MAR-2010 09:27
Client ID: AR122101
Sample Info: IMR100104-21

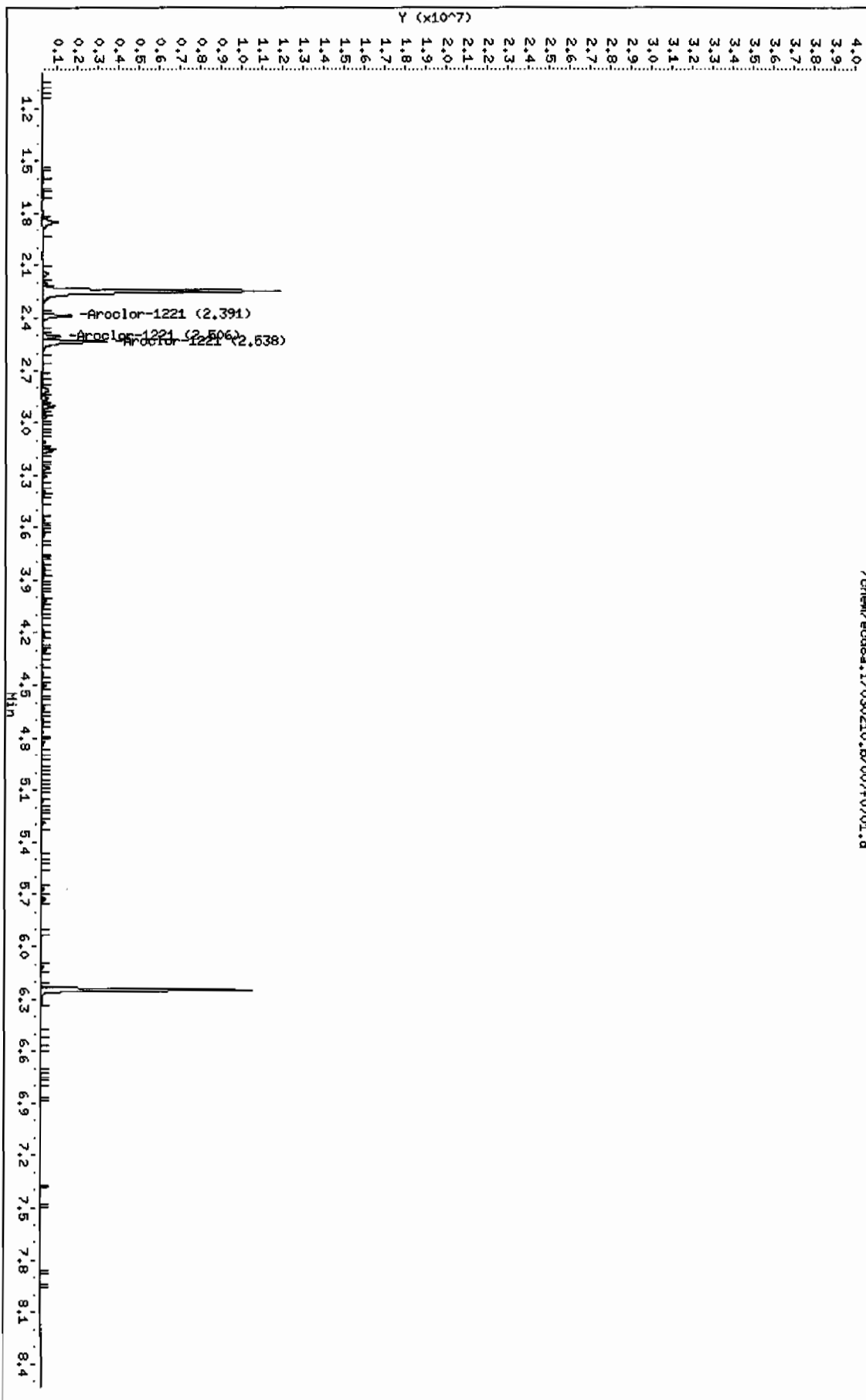
Instrument: ecodba.i

Page 1

Column phase: CLP1

Operator: JHOC
Column diameter: 0.25

/chem/ecodba.i/030210.b/007f0701.d



Data File: /chem/ecd8a.i/030210.b/007b0701.d
Report Date: 02-Mar-2010 15:45

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 02-MAR-2010 09:27

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-21

Misc Info : |1221

Comment :

Method : /chem/ecd8a.i/030210.b/ECDB-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2						
2 Aroclor-1221				CAS #: 11104-28-2		
2.721	2.721	0.000	1109419 1000.00	1170 80.00- 120.00	100.00	
2.834	2.834	0.000	662348 1000.00	1120 39.70- 79.70	59.70	
2.883	2.883	0.000	2403069 1000.00	1100 196.61- 236.61	216.61	
Average of Peak Amounts =			1.13e+03			

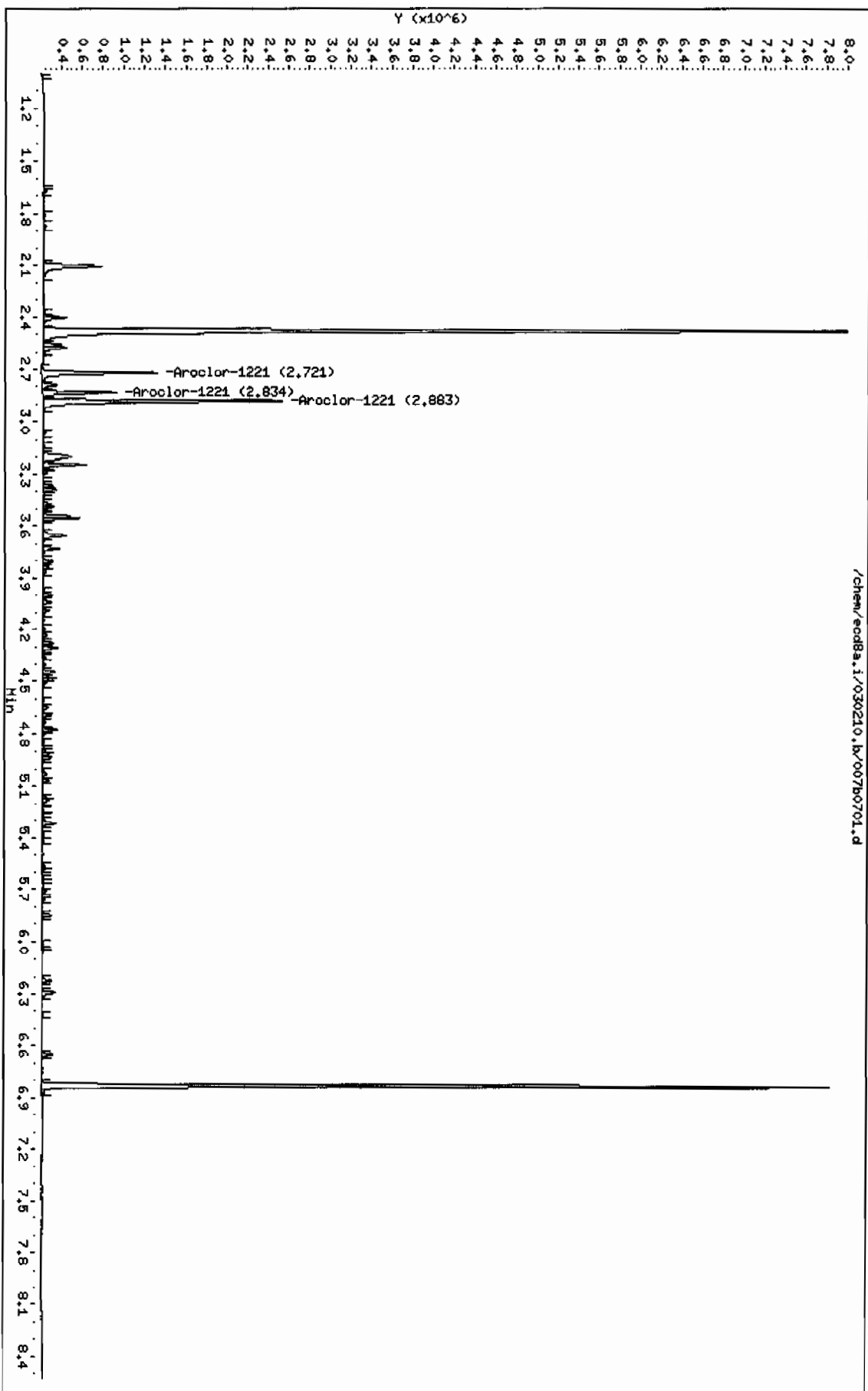
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Date : 02-MAR-2010 09:27
Client ID: AR122101
Sample Info: 1MAR100104-21

Instrument: eod8a.i

Page 1

Column phase: CLP2

Operator: JROC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/022f2201.d

Lab Smp Id: WAR100225-60 02

Client Smp ID: AR166002

Inj Date : 02-MAR-2010 12:37

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 02

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 22

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

\$ 11 4cmx			CAS #: 877-09-8			
2.249	2.251	-0.002	13073986 100.000	104	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.242	6.243	-0.001	8952026 100.000	99.1	80.00- 120.00	100.00

1 Aroclor-1016			CAS #: 12674-11-2			
2.807	2.808	-0.001	4465641 1000.00	981	80.00- 120.00	100.00
3.159	3.161	-0.002	5696196 1000.00	1020	110.02- 150.02	127.56
3.302	3.304	-0.002	2402030 1000.00	1000	33.62- 73.62	53.79
3.394	3.397	-0.003	2094375 1000.00	978	27.47- 67.47	46.90
3.556	3.559	-0.003	3066717 1000.00	990	47.53- 87.53	68.67
Average of Peak Amounts =			994			

7 Aroclor-1260			CAS #: 11096-82-5			
4.430	4.433	-0.003	6479013 1000.00	1000	80.00- 120.00	100.00
4.626	4.629	-0.003	9607495 1000.00	1010	129.13- 169.13	148.29
4.902	4.904	-0.002	5640650 1000.00	996	67.89- 107.89	87.06
5.074	5.077	-0.003	5891637 1000.00	998	71.99- 111.99	90.93
5.485	5.488	-0.003	6287413 1000.00	1010	78.98- 118.98	97.04
Average of Peak Amounts =			1e+03			

Data File: /chem/ecd8a.i/030210.b/02f2201.d

Date: 02-MAR-2010 12:37

Client ID: PR166002

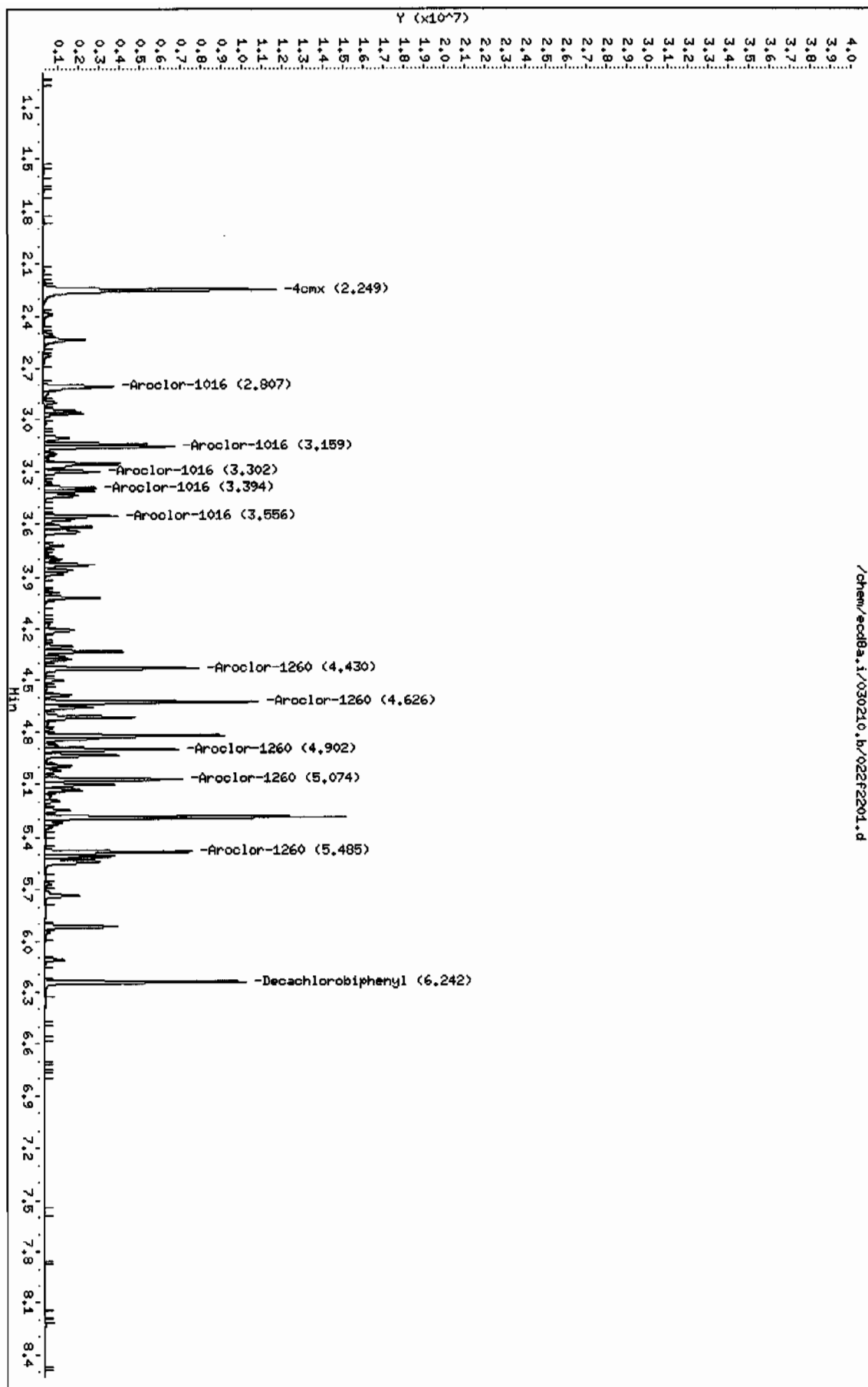
Sample Info: IMR100225-60 02

Column phase: CLP1

Instrument: ecd8a.i

Operator: JHDC

Column diameter: 0.25



Data File: /chem/ecd8a.i/030210.b/022b2201.d
Report Date: 02-Mar-2010 16:01

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/022b2201.d

Lab Smp Id: WAR100225-60 02

Client Smp ID: AR166002

Inj Date : 02-MAR-2010 12:37

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 02

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212

Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 22

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			
2.480	2.482	-0.002	9004738	100.000	109	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.829	6.832	-0.003	6343367	100.000	103	80.00-	120.00	100.00

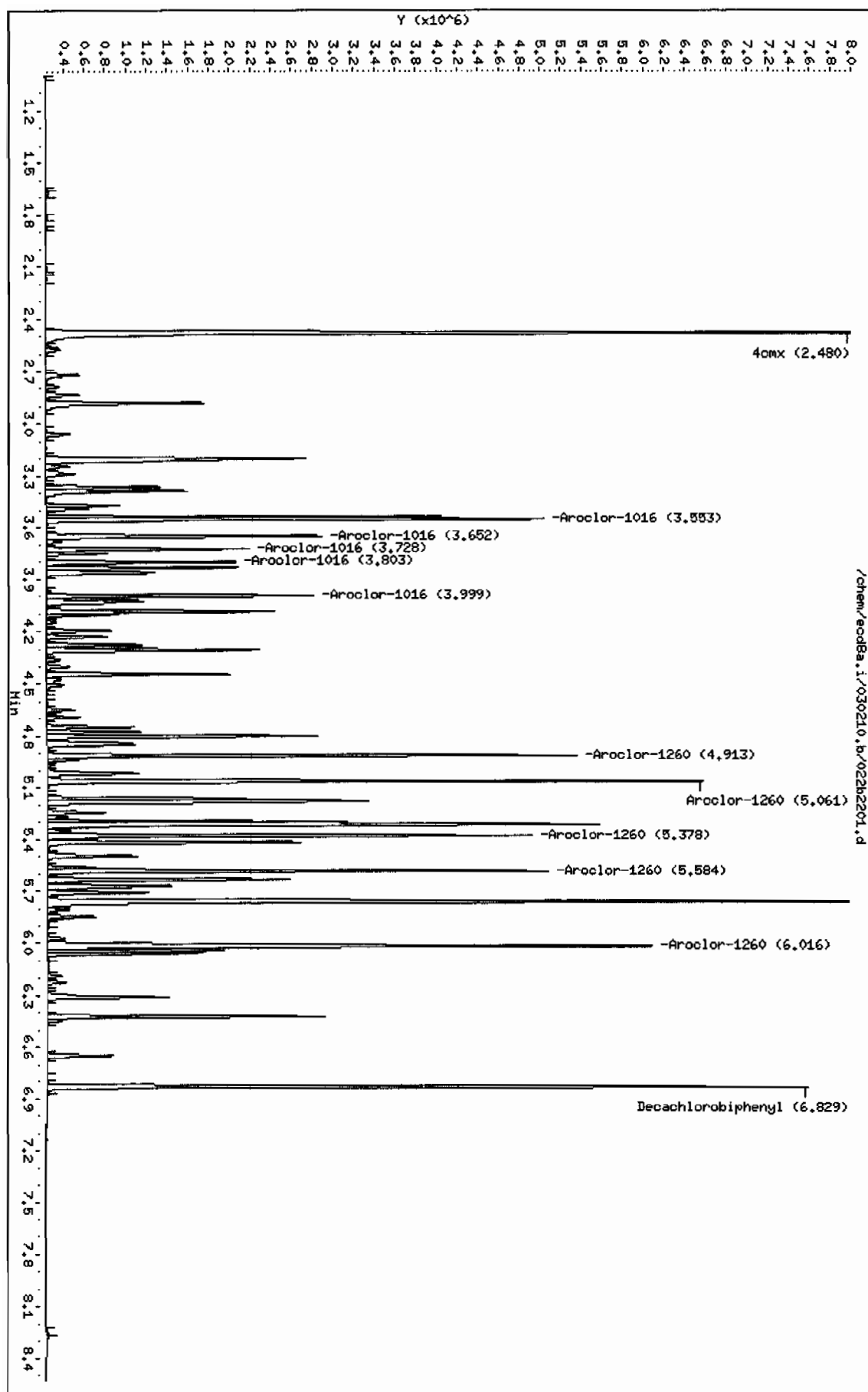
1 Aroclor-1016					CAS #: 12674-11-2			
3.553	3.554	-0.001	3920259	1000.00	1080	80.00-	120.00	100.00
3.652	3.653	-0.001	2561700	1000.00	1060	43.38-	83.38	65.35
3.728	3.729	-0.001	1553070	1000.00	1070	18.56-	58.56	39.62
3.803	3.805	-0.002	1495510	1000.00	1040	17.23-	57.23	38.15
3.999	4.001	-0.002	2092451	1000.00	1070	32.04-	72.04	53.38
Average of Peak Amounts =					1.07e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.913	4.915	-0.002	4261051	1000.00	1070	80.00-	120.00	100.00
5.061	5.063	-0.002	5196898	1000.00	1080	102.35-	142.35	121.96
5.378	5.380	-0.002	3962576	1000.00	1080	73.01-	113.01	93.00
5.584	5.588	-0.004	4109795	1000.00	1070	76.90-	116.90	96.45
6.016	6.018	-0.002	6403585	1000.00	1070	131.73-	171.73	150.28
Average of Peak Amounts =					1.07e+03			

Data File: /chem/eod8a.i/030210.b/022b2201.d
Date : 02-MAR-2010 12:37
Client ID: AR160002
Sample Info: 1MAR100225-60 02

Column phase: CLP2

Instrument: eod8a.i
Operator: JHDC
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.: 10-2012

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25			DCB: 6.24		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/23/10 0814	2.25	6.24
02	ZZZZZ	ZZZZZ	02/23/10 0826	2.25	6.24
03	AR125401	WAR100201-54	02/23/10 0839		
04	AR124201	WAR091217-42	02/23/10 0851		
05	AR124801	WAR091217-48	02/23/10 0903		
06	AR123201	WAR100104-32	02/23/10 0916		
07	AR166001	WAR100223-01	02/23/10 0928	2.25	6.24
08	AR166002	WAR100223-02	02/23/10 0941	2.25	6.24
09	AR166003	WAR100223-03	02/23/10 0953	2.25	6.24
10	AR166004	WAR100223-04	02/23/10 1005	2.25	6.24
11	AR166005	IAR100223-01	02/23/10 1018	2.25	6.24
12	ZZZZZ	ZZZZZ	02/23/10 1030	2.25	6.24
13	AR122101	WAR100223-05	02/23/10 1043		
14	AR122102	WAR100223-06	02/23/10 1055		
15	AR122103	WAR100223-07	02/23/10 1107		
16	AR122104	WAR100223-08	02/23/10 1120		
17	AR122105	IAR100104-02	02/23/10 1132		
18	AR122101	WAR100104-21	02/23/10 1145		
19	AR166001	WAR100222-60	02/23/10 1157	2.25	6.24
20	AR126201	WAR100104-62	02/23/10 1209		
21	AR126801	WAR100107-68	02/23/10 1222		
22	DDTANALOGSTD	WAR091219-DD	02/23/10 1234		
23	PIBLK02	WAR100105-99	02/23/10 1246	2.25	6.24
24	ZZZZZ	ZZZZZ	02/23/10 1259	2.25	6.24
25	ZZZZZ	ZZZZZ	02/23/10 1311	2.25	6.24
26	ZZZZZ	ZZZZZ	02/23/10 1324	2.25	6.24
27	ZZZZZ	ZZZZZ	02/23/10 1336	2.25	6.24
28	ZZZZZ	ZZZZZ	02/23/10 1348	2.25	6.24
29	AR166002	WAR100222-60	02/23/10 1401	2.25	6.24
30	PIBLK03	WAR100105-99	02/23/10 1413	2.25	6.24
31	ZZZZZ	ZZZZZ	02/23/10 1426	2.25	6.24
32	ZZZZZ	ZZZZZ	02/23/10 1438	2.25	6.24

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2012

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.48				DCB: 6.83			
EPA	LAB	DATE	TIME	SI	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	PIBLK01	WAR100105-99	02/23/10	0814	2.48	6.83	
02	ZZZZZ	ZZZZZ	02/23/10	0826	2.48	6.83	
03	AR125401	WAR100201-54	02/23/10	0839			
04	AR124201	WAR091217-42	02/23/10	0851			
05	AR124801	WAR091217-48	02/23/10	0903			
06	AR123201	WAR100104-32	02/23/10	0916			
07	AR166001	WAR100223-01	02/23/10	0928	2.48	6.83	
08	AR166002	WAR100223-02	02/23/10	0941	2.48	6.83	
09	AR166003	WAR100223-03	02/23/10	0953	2.48	6.83	
10	AR166004	WAR100223-04	02/23/10	1005	2.48	6.83	
11	AR166005	IAR100223-01	02/23/10	1018	2.48	6.83	
12	ZZZZZ	ZZZZZ	02/23/10	1030	2.48	6.83	
13	AR122101	WAR100223-05	02/23/10	1043			
14	AR122102	WAR100223-06	02/23/10	1055			
15	AR122103	WAR100223-07	02/23/10	1107			
16	AR122104	WAR100223-08	02/23/10	1120			
17	AR122105	IAR100104-02	02/23/10	1132			
18	AR122101	WAR100104-21	02/23/10	1145			
19	AR166001	WAR100222-60	02/23/10	1157	2.48	6.83	
20	AR126201	WAR100104-62	02/23/10	1209			
21	AR126801	WAR100107-68	02/23/10	1222			
22	DDTANALOGSTD	WAR091219-DD	02/23/10	1234			
23	PIBLK02	WAR100105-99	02/23/10	1246	2.48	6.83	
24	ZZZZZ	ZZZZZ	02/23/10	1259	2.48	6.83	
25	ZZZZZ	ZZZZZ	02/23/10	1311	2.48	6.83	
26	ZZZZZ	ZZZZZ	02/23/10	1324	2.48	6.83	
27	ZZZZZ	ZZZZZ	02/23/10	1336	2.48	6.83	
28	ZZZZZ	ZZZZZ	02/23/10	1348	2.48	6.83	
29	AR166002	WAR100222-60	02/23/10	1401	2.48	6.83	
30	PIBLK03	WAR100105-99	02/23/10	1413	2.48	6.83	
31	ZZZZZ	ZZZZZ	02/23/10	1426	2.48	6.83	
32	ZZZZZ	ZZZZZ	02/23/10	1438	2.48	6.83	

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.: 10-2012

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25			DCB: 6.24		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100219-99	03/02/10	0813	
02	AR166001	WAR100225-60	03/02/10	0825	
03	AR125401	WAR100201-54	03/02/10	0837	
04	AR124201	WAR091217-42	03/02/10	0850	
05	AR124801	WAR091217-48	03/02/10	0902	
06	AR123201	WAR100104-32	03/02/10	0915	
07	AR122101	WAR100104-21	03/02/10	0927	
08	AR126201	WAR100104-62	03/02/10	0939	
09	AR126801	WAR100107-68	03/02/10	0952	
10	DDTANALOGSTD	WAR091219-DD	03/02/10	1004	
11	PIBLK02	WAR100219-99	03/02/10	1017	2.25 6.24
12	PBLK01	1202057855	03/02/10	1029	2.25 6.24
13	PBLK01LCS	1202057856	03/02/10	1041	2.25 6.24
14	RE15-10-8065	247904015	03/02/10	1054	2.25 6.24
15	RE15-10-8066	247904016	03/02/10	1106	2.25 6.24
16	RE15-10-8033	247904017	03/02/10	1119	2.25 6.24
17	ZZZZZ	ZZZZZ	03/02/10	1131	2.25 6.24
18	ZZZZZ	ZZZZZ	03/02/10	1143	2.25 6.24
19	ZZZZZ	ZZZZZ	03/02/10	1156	2.25 6.24
20	ZZZZZ	ZZZZZ	03/02/10	1208	2.25 6.24
21	ZZZZZ	ZZZZZ	03/02/10	1221	2.25 6.24
22	AR166002	WAR100225-60	03/02/10	1237	2.25 6.24
23	PIBLK03	WAR100219-99	03/02/10	1249	2.25 6.24
24	ZZZZZ	ZZZZZ	03/02/10	1302	2.25 6.24
25	ZZZZZ	ZZZZZ	03/02/10	1314	2.25 6.24
26	ZZZZZ	ZZZZZ	03/02/10	1327	2.25 6.24
27	ZZZZZ	ZZZZZ	03/02/10	1339	2.25 6.24
28	ZZZZZ	ZZZZZ	03/02/10	1352	2.25 6.24
29	ZZZZZ	ZZZZZ	03/02/10	1404	2.25 6.24
30	ZZZZZ	ZZZZZ	03/02/10	1416	2.25 6.24
31	ZZZZZ	ZZZZZ	03/02/10	1429	2.25 6.24
32	ZZZZZ	ZZZZZ	03/02/10	1445	2.25 6.24

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2012

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.48				DCB: 6.83			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
							#
01	PIBLK01	WAR100219-99	03/02/10	0813	2.48		6.83
02	AR166001	WAR100225-60	03/02/10	0825	2.48		6.83
03	AR125401	WAR100201-54	03/02/10	0837			
04	AR124201	WAR091217-42	03/02/10	0850			
05	AR124801	WAR091217-48	03/02/10	0902			
06	AR123201	WAR100104-32	03/02/10	0915			
07	AR122101	WAR100104-21	03/02/10	0927			
08	AR126201	WAR100104-62	03/02/10	0939			
09	AR126801	WAR100107-68	03/02/10	0952			
10	DDTANALOGSTD	WAR091219-DD	03/02/10	1004			
11	PIBLK02	WAR100219-99	03/02/10	1017	2.48		6.83
12	PBLK01	1202057855	03/02/10	1029	2.48		6.83
13	PBLK01LCS	1202057856	03/02/10	1041	2.48		6.83
14	RE15-10-8065	247904015	03/02/10	1054	2.48		6.83
15	RE15-10-8066	247904016	03/02/10	1106	2.48		6.83
16	RE15-10-8033	247904017	03/02/10	1119	2.48		6.83
17	ZZZZZ	ZZZZZ	03/02/10	1131	2.48		6.83
18	ZZZZZ	ZZZZZ	03/02/10	1143	2.48		6.83
19	ZZZZZ	ZZZZZ	03/02/10	1156	2.48		6.83
20	ZZZZZ	ZZZZZ	03/02/10	1208	2.48		6.83
21	ZZZZZ	ZZZZZ	03/02/10	1221	2.48		6.83
22	AR166002	WAR100225-60	03/02/10	1237	2.48		6.83
23	PIBLK03	WAR100219-99	03/02/10	1249	2.48		6.83
24	ZZZZZ	ZZZZZ	03/02/10	1302	2.48		6.83
25	ZZZZZ	ZZZZZ	03/02/10	1314	2.48		6.83
26	ZZZZZ	ZZZZZ	03/02/10	1327	2.48		6.83
27	ZZZZZ	ZZZZZ	03/02/10	1339	2.48		6.83
28	ZZZZZ	ZZZZZ	03/02/10	1352	2.48		6.83
29	ZZZZZ	ZZZZZ	03/02/10	1404	2.48		6.83
30	ZZZZZ	ZZZZZ	03/02/10	1416	2.48		6.83
31	ZZZZZ	ZZZZZ	03/02/10	1429	2.48		6.83
32	ZZZZZ	ZZZZZ	03/02/10	1445	2.48		6.83

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

Page 1 of 1

SDG Number: 10-2012

Client ID: LCS for batch 959464

Lab Sample ID: 1202057856

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD8A.I_1

Inst: ECD8A.I_2

Column: CLP1

Column: CLP2

Analyzed: 02-MAR-10 10:41

Analyzed: 02-MAR-10 10:41

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							3.53
Column 1	1	2.81	2.78 – 2.84	27.1		ug/kg	
	2	3.16	3.13 – 3.19	28.7		ug/kg	
	3	3.3	3.27 – 3.33	28.4		ug/kg	
	4	3.4	3.37 – 3.43	28.1		ug/kg	
	5	3.56	3.53 – 3.59	27.7		ug/kg	
					28		
Column 2	1	3.55	3.52 – 3.58	30.1		ug/kg	
	2	3.65	3.62 – 3.68	28.7		ug/kg	
	3	3.73	3.7 – 3.76	28.1		ug/kg	
	4	3.8	3.78 – 3.84	29		ug/kg	
	5	4	3.97 – 4.03	29.1		ug/kg	
					29		
Aroclor-1260							5.53
Column 1	1	4.43	4.4 – 4.46	31.7		ug/kg	
	2	4.63	4.6 – 4.66	32.2		ug/kg	
	3	4.9	4.87 – 4.93	30.8		ug/kg	
	4	5.07	5.05 – 5.11	28.8		ug/kg	
	5	5.49	5.46 – 5.52	31.5		ug/kg	
					31		
Column 2	1	4.91	4.89 – 4.95	31.6		ug/kg	
	2	5.06	5.03 – 5.09	33.1		ug/kg	
	3	5.38	5.35 – 5.41	35.1		ug/kg	
	4	5.59	5.56 – 5.62	29.3		ug/kg	
	5	6.02	5.99 – 6.05	35		ug/kg	
					32.8		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2012

Lab Sample ID: 1202057855

Client Sample: QC for batch 959464

Client ID: MB for batch 959464

Batch ID: 959468

Run Date: 03/02/2010 10:29

Prep Date: 03/01/2010 23:33

Data File: 012f1201-1.d

012b1201-1.d

Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL

Project: QC
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/012f1201.d
 Lab Smp Id: 1202057855 Client Smp ID: PBLK01
 Inj Date : 02-MAR-2010 10:29
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202057855|1|
 Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m
 Meth Date : 03-Mar-2010 08:07 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2012.sub
 Target Version: 3.50 Sample Matrix: Soil

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

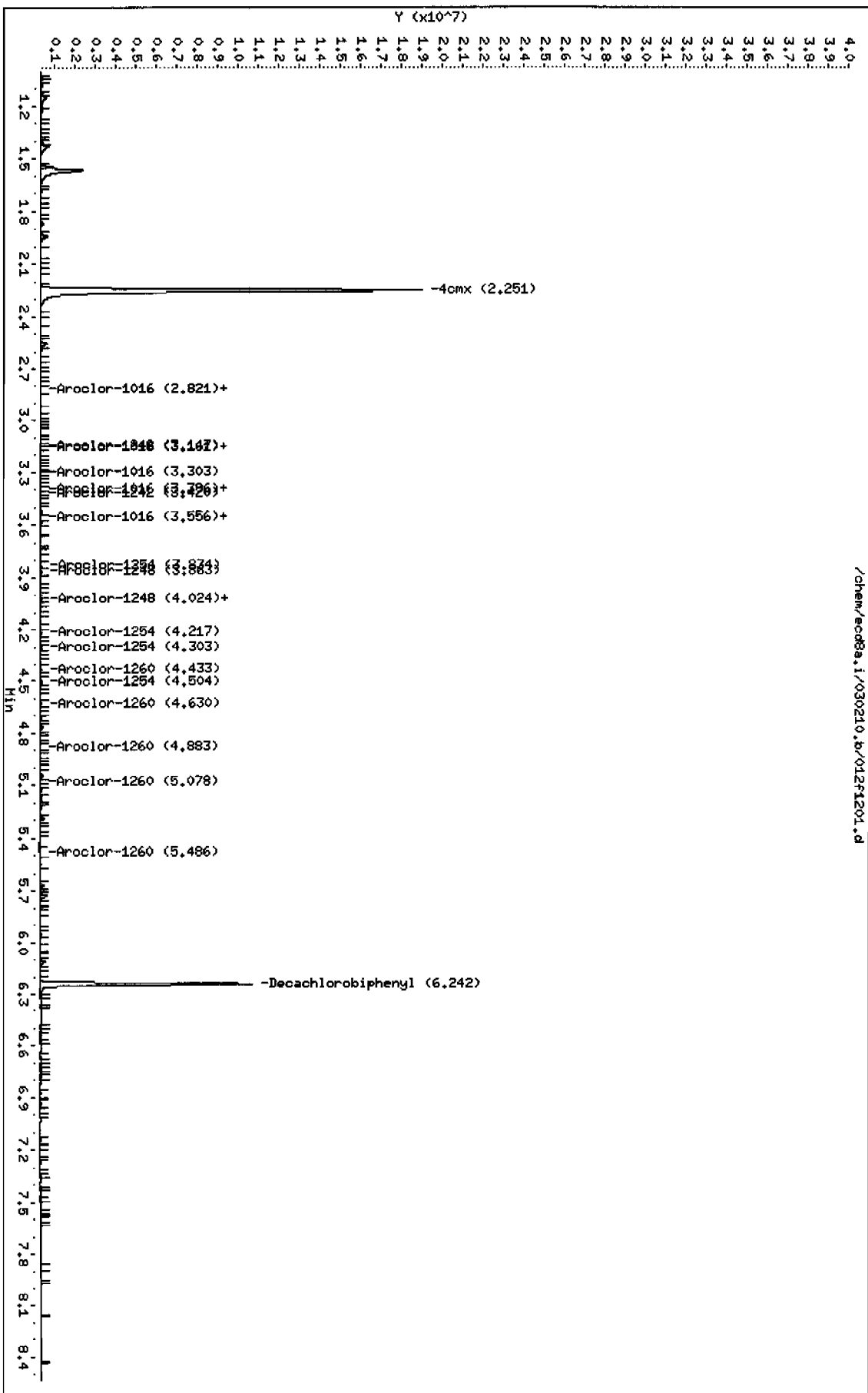
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.251	2.251	0.000	21777756	172.826	5.8	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.242	6.243	-0.001	9736033	107.797	3.6	80.00- 120.00	100.00

Data File: /chem/ecob8a.i/030210.b/012f1201.d
Date : 02-MAR-2010 10:29
Client ID: PKK01
Sample Info: 1420205785511
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecob8a.i
Operator: JHOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/030210.b/012b1201.d
Report Date: 02-Mar-2010 15:59

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/012b1201.d

Lab Smp Id: 1202057855

Client Smp ID: PBLK01

Inj Date : 02-MAR-2010 10:29

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202057855|1|

Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|MB|||

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 15:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 12

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2012.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

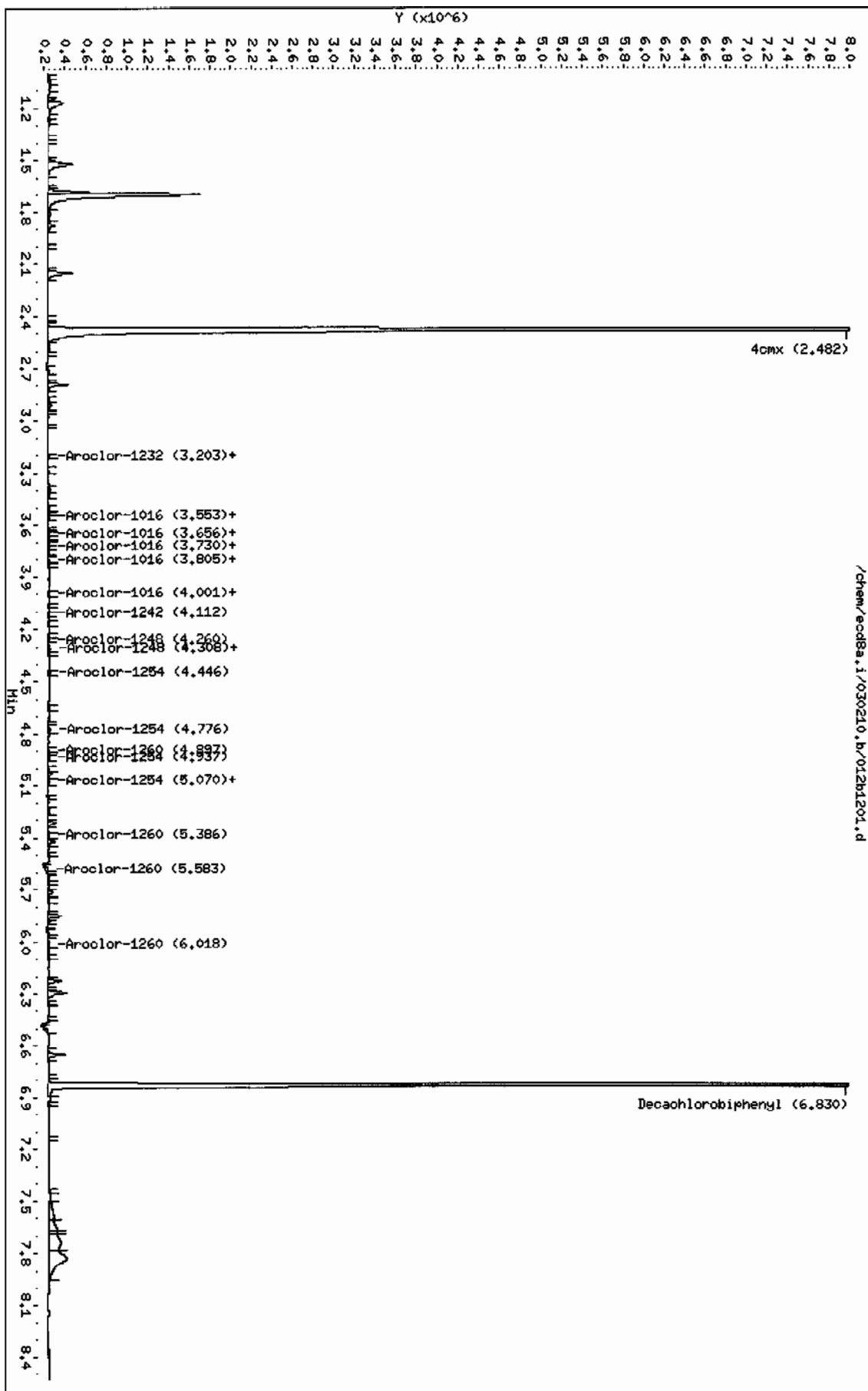
Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.482	2.482	0.000	15251925	184.928	6.2 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.830	6.832	-0.002	11452170	185.798	6.2 80.00- 120.00	100.00

Data File: /chem/ecod8a.i/030210.b/012b1201.d
Date : 02-MAR-2010 10:29
Client ID: PLK01
Sample Info: 1120205785511
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecod8a.i
Operator: J90C
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2012

Lab Sample ID: 1202057856

Client Sample: QC for batch 959464

Client ID: LCS for batch 959464

Batch ID: 959468

Run Date: 03/02/2010 10:41

Prep Date: 03/01/2010 23:33

Data File: 013f1301-1.d

013b1301-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD8A.I

Analyst: JAOC

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		29.0	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		32.8	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/030210.b/013f1301.d
 Lab Smp Id: 1202057856 Client Smp ID: PBLK01LCS
 Inj Date : 02-MAR-2010 10:41
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202057856|1|
 Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m
 Meth Date : 03-Mar-2010 08:07 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2012.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

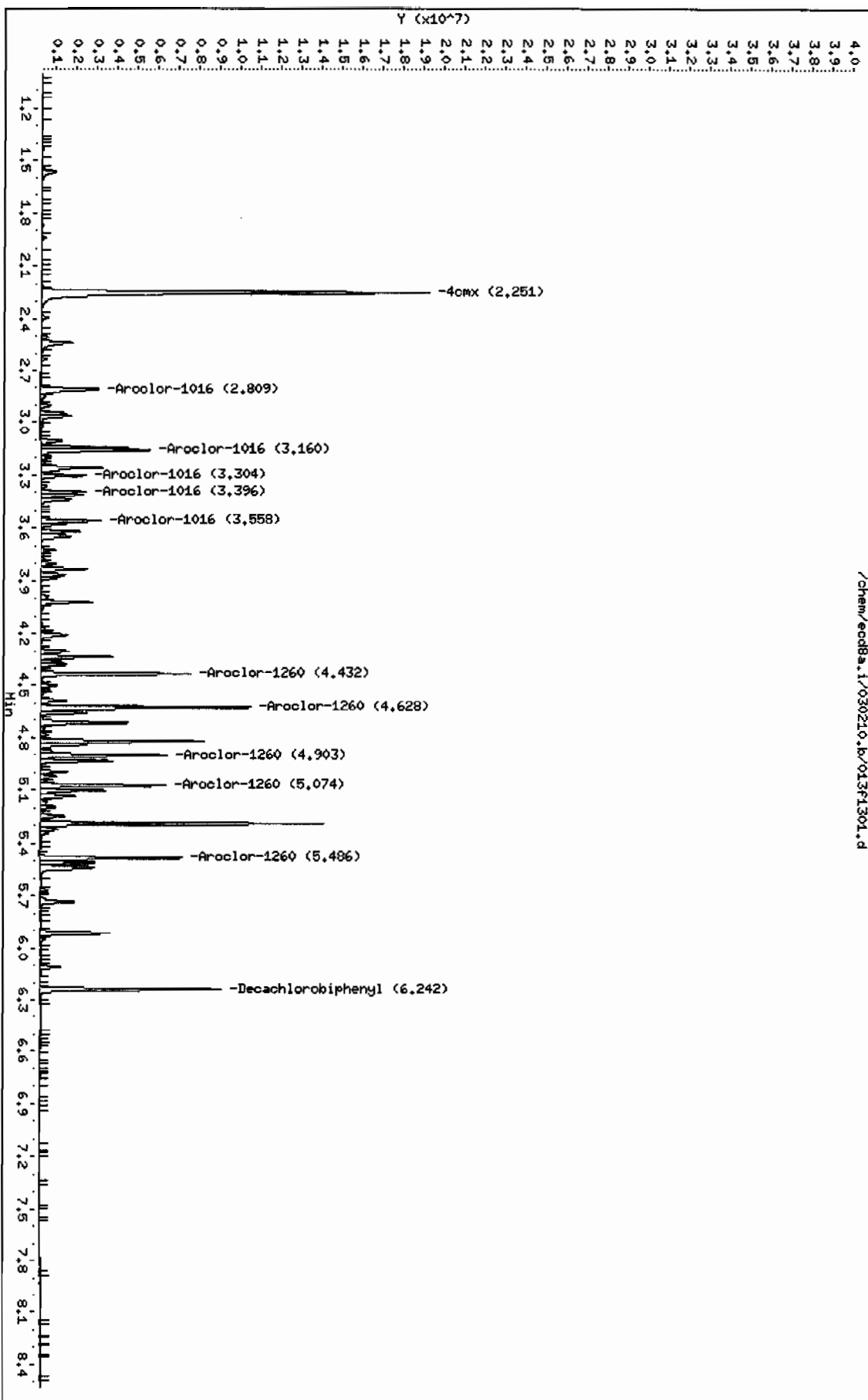
CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.251	2.251	0.000	21581124	171.266	5.7	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.242	6.243	-0.001	7824590	86.6337	2.9	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.809	2.808	0.001	3698083	812.538	27.1	80.00- 120.00	100.00
3.160	3.161	-0.001	4824437	859.962	28.7	110.65- 150.65	130.46
3.304	3.304	0.000	2038481	852.101	28.4	33.51- 73.51	55.12
3.396	3.397	-0.001	1807633	844.444	28.1	26.95- 66.95	48.88
3.558	3.559	-0.001	2578943	832.142	27.7	48.05- 88.05	69.74
Average of Peak Concentrations =					28.0		

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5				
4.432	4.433	-0.001	6153878	950.325	31.7	80.00-	120.00	100.00	
4.628	4.629	-0.001	9235572	967.251	32.2	128.55-	168.55	150.08	
4.903	4.904	-0.001	5243380	925.464	30.8	67.09-	107.09	85.20	
5.074	5.077	-0.003	5108089	865.187	28.8	70.83-	110.83	83.01	
5.486	5.488	-0.002	5894957	946.400	31.5	79.33-	119.33	95.79	
Average of Peak Concentrations =					31.0				

Data File: /chem/ecdb8a.1/030210.b/013F1301.d
Date : 02-MAR-2010 10:41
Client ID: PLK01LCS
Sample Info: 1120205785611
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdb8a.1
Operator: JROC
Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/013b1301.d
 Lab Smp Id: 1202057856 Client Smp ID: PBLK01LCS
 Inj Date : 02-MAR-2010 10:41
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202057856|1|
 Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m
 Meth Date : 03-Mar-2010 08:08 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2012.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

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
2.482	2.482	0.000	14985608	181.699	6.0	80.00- 120.00	100.00

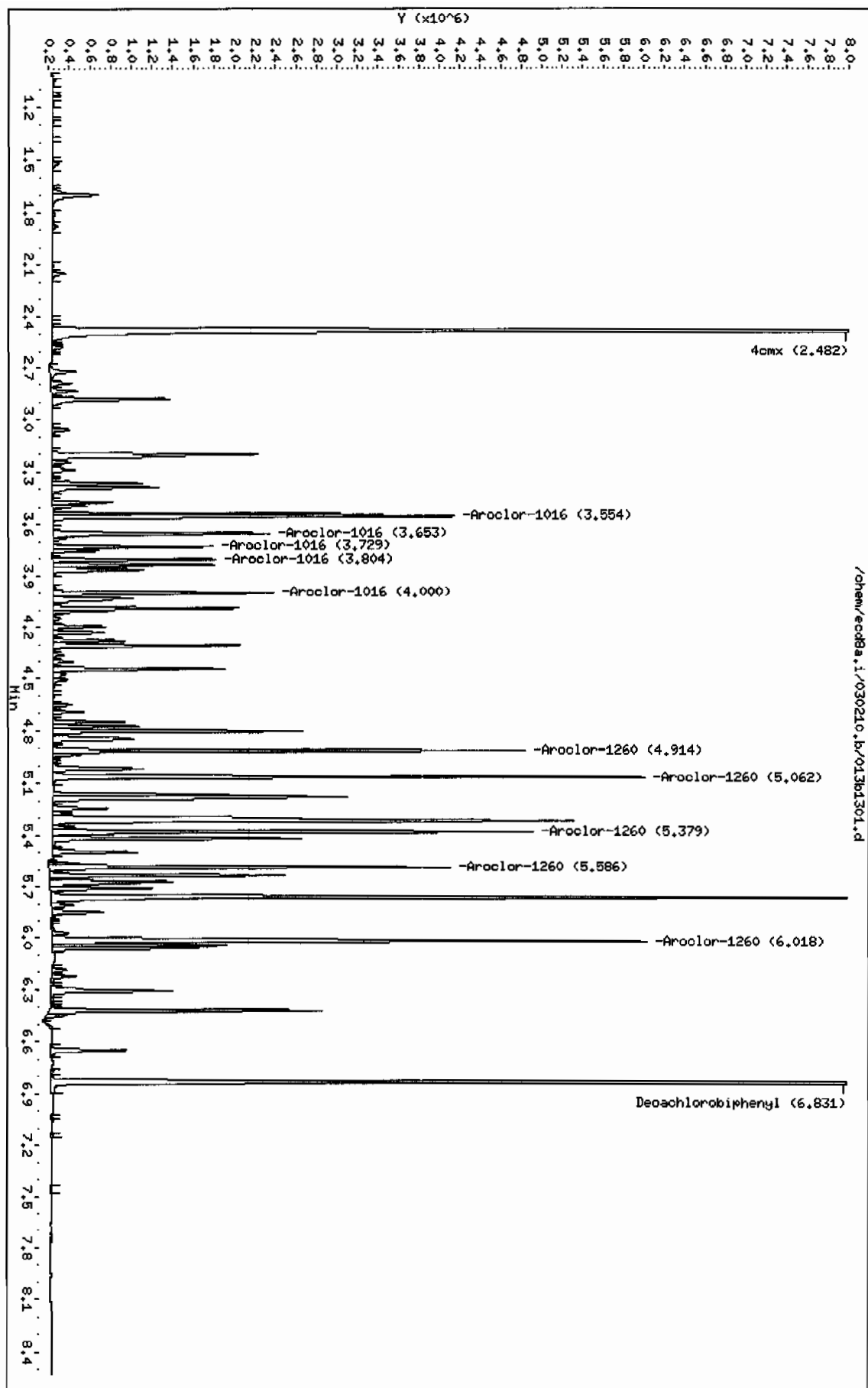
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.831	6.832	-0.001	11541450	187.247	6.2	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2			
3.554	3.554	0.000	3273588	904.442	30.1	80.00- 120.00	100.00
3.653	3.653	0.000	2073895	860.485	28.7	43.27- 83.27	63.35
3.729	3.729	0.000	1224155	842.432	28.1	18.69- 58.69	37.39
3.804	3.805	-0.001	1249465	871.448	29.0	17.10- 57.10	38.17
4.000	4.001	-0.001	1710567	873.499	29.1	31.95- 71.95	52.25
Average of Peak Concentrations =				29.0			

			CONCENTRATIONS					
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5			
4.914	4.915	-0.001	3755723	946.838	31.6	80.00-	120.00	100.00
5.062	5.063	-0.001	4773365	992.581	33.1	102.11-	142.11	127.10
5.379	5.380	-0.001	3871194	1052.01	35.1	73.00-	113.00	103.07
5.586	5.588	-0.002	3360925	878.489	29.3	76.97-	116.97	89.49
6.018	6.018	0.000	6291211	1049.62	35.0	132.07-	172.07	167.51
Average of Peak Concentrations =					32.8			

Data File: /chem/eod8a.i/030210.b/013b1301.d
 Date: 02-MAR-2010 10:41
 Client ID: PBLK01LCS
 Sample Info: 1120205785611
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: eod8a.i
 Operator: JHDC
 Column diameter: 0.25



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 02/24/2010

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/022310.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1WARI00105-99 01	JAOC	23-FEB-2010 08:14		022310	1.0l		CLEAN
1002f0201.d	1WARI00203-60 01	JAOC	23-FEB-2010 08:26		022310	1.0l		DUSE
1003f0301.d	1WARI00201-54	JAOC	23-FEB-2010 08:39		022310	1.0l		PASSES BOTH COLUMNS
1004f0401.d	1WARI091217-42	JAOC	23-FEB-2010 08:51		022310	1.0l		PASSES BOTH COLUMNS
1005f0501.d	1WARI091217-48	JAOC	23-FEB-2010 09:03		022310	1.0l		PASSES BOTH COLUMNS
1006f0601.d	1WARI00104-32	JAOC	23-FEB-2010 09:16		022310	1.0l		PATTERN ONLY
1007f0701.d	1WARI00223-01 60	JAOC	23-FEB-2010 09:28		022310	1.0l		1660 LEVEL 1
1008f0801.d	1WARI00223-02 60	JAOC	23-FEB-2010 09:41		022310	1.0l		1660 LEVEL 2
1009f0901.d	1WARI00223-03 60	JAOC	23-FEB-2010 09:53		022310	1.0l		1660 LEVEL 3
1010f1001.d	1WARI00223-04 60	JAOC	23-FEB-2010 10:05		022310	1.0l		1660 LEVEL 4
1011f1101.d	1WARI00223-01 60	JAOC	23-FEB-2010 10:18		022310	1.0l		1660 LEVEL 5
1012f1201.d	1WARI00222-60 01	JAOC	23-FEB-2010 10:30		022310	1.0l		DUSE
1013f1301.d	1WARI00223-05 21	JAOC	23-FEB-2010 10:43		022310	1.0l		1221 LEVEL 1
1014f1401.d	1WARI00223-06 21	JAOC	23-FEB-2010 10:55		022310	1.0l		1221 LEVEL 2
1015f1501.d	1WARI00223-07 21	JAOC	23-FEB-2010 11:07		022310	1.0l		1221 LEVEL 3

Instrument Batch: /chem/ecd8a.i/022310.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1016f1601.d	1WARI00223-08 21	JAOC	23-FEB-2010 11:20		022310	1.0l		1221 LEVEL 4
1017f1701.d	1WARI00104-02 21	JAOC	23-FEB-2010 11:32		022310	1.0l		1221 LEVEL 5

1018f1801.d	1WAR100104-21	1JAO	23-FEB-2010 11:45	1	022310	1	1.0	1	PASSES BOTH COLUMNS
1019f1901.d	1WAR100222-60 01	1JAO	23-FEB-2010 11:57	1	022310	1	1.0	1	PASSES BOTH COLUMNS
1020f2001.d	1WAR100104-62	1JAO	23-FEB-2010 12:09	1	022310	1	1.0	1	PATTERN ONLY
1021f2101.d	1WAR100107-68	1JAO	23-FEB-2010 12:22	1	022310	1	1.0	1	PATTERN ONLY
1022f2201.d	1WAR091219-DDT	1JAO	23-FEB-2010 12:34	1	022310	1	1.0	1	DDT
1023f2301.d	1WAR100105-99 02	1JAO	23-FEB-2010 12:46	1	022310	1	1.0	1	CLEAN
1024f2401.d	11202048644	1JAO	23-FEB-2010 12:59	955558	10-1781	1	1.0	QC A	1 UPLOAD BOTH, USE HIGHER
1025f2501.d	11202048645	1JAO	23-FEB-2010 13:11	955558	10-1781	1	1.0	QC A	1 UPLOAD BOTH, USE HIGHER
1026f2601.d	1246863005	1JAO	23-FEB-2010 13:24	955558	10-1781	1	1.0	LANL	1 UPLOAD BOTH, USE HIGHER
1027f2701.d	11202048646	1JAO	23-FEB-2010 13:36	955558	10-1781	1	1.0	QC A	1 UPLOAD BOTH, USE HIGHER
1028f2801.d	11202048647	1JAO	23-FEB-2010 13:48	955558	10-1781	1	1.0	QC A	1 UPLOAD BOTH, USE HIGHER
1029f2901.d	1WAR100222-60 02	1JAO	23-FEB-2010 14:01	1	022310	1	1.0	1	PASSES BOTH COLUMNS
1030f3001.d	1WAR100105-99 03	1JAO	23-FEB-2010 14:13	1	022310	1	1.0	1	CLEAN
1031f3101.d	11202047548	1JAO	23-FEB-2010 14:26	955074	022310	1	1.0	QC A	1 DUSE
1032f3201.d	11202047549	1JAO	23-FEB-2010 14:38	955074	1	1	1.0	QC A	1 DUSE
1033f3301.d	1243880001	1JAO	23-FEB-2010 14:50	955074	2010AR1221MDL-L	1	1.0	QCQA	1 DUSE
1034f3401.d	1243880002	1JAO	23-FEB-2010 15:03	955074	2010AR1221MDL-L	1	1.0	QCQA	1 DUSE
1035f3501.d	1243880003	1JAO	23-FEB-2010 15:15	955074	2010AR1221MDL-L	1	1.0	QCQA	1 DUSE

Instrument Batch: /chem/ecd8a.i/022310.b

Page: 2

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	1243880004	1JAO	23-FEB-2010 15:28	955074	2010AR1221MDL-L	1	1.0	QCQA 1 DUSE
1037f3701.d	1243880005	1JAO	23-FEB-2010 15:40	955074	2010AR1221MDL-L	1	1.0	QCQA 1 DUSE
1038f3801.d	1243880006	1JAO	23-FEB-2010 15:53	955074	2010AR1221MDL-L	1	1.0	QCQA 1 DUSE
1039f3901.d	1243880007	1JAO	23-FEB-2010 16:05	955074	2010AR1221MDL-L	1	1.0	QCQA 1 DUSE
1040f4001.d	1243880008	1JAO	23-FEB-2010 16:17	955074	2010AR1221MDL-L	1	1.0	QCQA 1 DUSE
1041f4101.d	1WAR100222-60 03	1JAO	23-FEB-2010 16:30	1	022310	1	1.0	1 PASSES BOTH COLUMNS

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 03/03/2010 METHOD: ECD8-F-8082-020310a.m OPERATOR: JAOC REVIEWED BY: _____
DATE: _____HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA936
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/030210.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1001f00219-99 01	JAOC	02-MAR-2010 08:13		030210	1.0	CLEAN	
1002f0201.d	1002f00225-60 01	JAOC	02-MAR-2010 08:25		030210	1.0	PASSES BOTH COLUMNS	
1003f0301.d	1003f00201-54	JAOC	02-MAR-2010 08:37		030210	1.0	PASSES BOTH COLUMNS	
1004f0401.d	1004f0091217-42	JAOC	02-MAR-2010 08:50		030210	1.0	PASSES BOTH COLUMNS	
1005f0501.d	1005f0091217-48	JAOC	02-MAR-2010 09:02		030210	1.0	PASSES BOTH COLUMNS	
1006f0601.d	1006f00104-32	JAOC	02-MAR-2010 09:15		030210	1.0	PATTERN ONLY	
1007f0701.d	1007f00104-21	JAOC	02-MAR-2010 09:27		030210	1.0	PATTERN ONLY	
1008f0801.d	1008f00104-62	JAOC	02-MAR-2010 09:39		030210	1.0	PATTERN ONLY	
1009f0901.d	1009f00107-68	JAOC	02-MAR-2010 09:52		030210	1.0	PATTERN ONLY	
1010f1001.d	1010f0091219-DDT	JAOC	02-MAR-2010 10:04		030210	1.0	DDT	
1011f1101.d	1011f00219-99 02	JAOC	02-MAR-2010 10:17		030210	1.0	CLEAN	
1012f1201.d	1012f02057855	JAOC	02-MAR-2010 10:29	959468	10-2012	1.0	QC A	UPLOAD BOTH, USE HIGHER
1013f1301.d	1013f02057856	JAOC	02-MAR-2010 10:41	959468	10-2012	1.0	QC A	UPLOAD BOTH, USE HIGHER
1014f1401.d	1014f0904015	JAOC	02-MAR-2010 10:54	959468	10-2012	1.0	LANL	UPLOAD BOTH, USE HIGHER
1015f1501.d	1015f0904016	JAOC	02-MAR-2010 11:06	959468	10-2012	1.0	LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/030210.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1016f1601.d	1016f0904017	JAOC	02-MAR-2010 11:19	959468	10-2012	1.0	LANL	UPLOAD BOTH, USE HIGHER
1017f1701.d	1017f0915001	JAOC	02-MAR-2010 11:31	959468	10-2015	1.0	LANL	UPLOAD BOTH, USE HIGHER

1018f1801.d	1247915002	JAOC	02-MAR-2010 11:43	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1019f1901.d	1247915003	JAOC	02-MAR-2010 11:56	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1020f2001.d	1247915004	JAOC	02-MAR-2010 12:08	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1021f2101.d	1247915005	JAOC	02-MAR-2010 12:21	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1022f2201.d	1247915006	JAOC	02-MAR-2010 12:37	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1023f2301.d	1247915007	JAOC	02-MAR-2010 12:49	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1024f2401.d	1247915008	JAOC	02-MAR-2010 13:02	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1025f2501.d	1247915009	JAOC	02-MAR-2010 13:14	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1026f2601.d	1247915010	JAOC	02-MAR-2010 13:27	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1027f2701.d	1247915011	JAOC	02-MAR-2010 13:39	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1028f2801.d	1247915012	JAOC	02-MAR-2010 13:52	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1029f2901.d	1247915013	JAOC	02-MAR-2010 14:04	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1030f3001.d	1247915014	JAOC	02-MAR-2010 14:16	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1031f3101.d	1247915015	JAOC	02-MAR-2010 14:29	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1032f3201.d	1247915016	JAOC	02-MAR-2010 14:45	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1033f3301.d	1247915017	JAOC	02-MAR-2010 14:58	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1034f3401.d	1247915018	JAOC	02-MAR-2010 15:14	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER
1035f3501.d	1247915019	JAOC	02-MAR-2010 15:27	959468	10-2015	1.0 LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/030210.b

1036f3601.d	1248130002	JAOC	02-MAR-2010 15:39	959468	10-2097	1.0 LANL	UPLOAD BOTH, USE HIGHER
1037f3701.d	1248130003	JAOC	02-MAR-2010 15:51	959468	10-2097	1.0 LANL	UPLOAD BOTH, USE HIGHER
1038f3801.d	1248130004	JAOC	02-MAR-2010 16:04	959468	10-2097	1.0 LANL	UPLOAD BOTH, USE HIGHER
1039f3901.d	1248130005	JAOC	02-MAR-2010 16:16	959468	10-2097	1.0 LANL	UPLOAD BOTH, USE HIGHER
1040f4001.d	1248130006	JAOC	02-MAR-2010 16:29	959468	10-2097	1.0 LANL	UPLOAD BOTH, USE HIGHER
1041f4101.d	1248130007	JAOC	02-MAR-2010 16:41	959468	10-2097	1.0 LANL	UPLOAD BOTH, USE HIGHER

042f4201.d	WAR100225-60 04	JAO	02-MAR-2010 16:57		030210		1.01		PASSES BOTH COLUMNS	+
043f4301.d	WAR100219-99 05	JAO	02-MAR-2010 17:10		030210		1.01		CLEAN	+

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/037b3701.d

Lab Smp Id: 1202057857

Client Smp ID: WST16-10-13288MS

Inj Date : 02-MAR-2010 15:51

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202057857|1|

Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|MS|

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 03-Mar-2010 08:08 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 37

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2097.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	30.13000	Weight of sample extracted (g)
M	9.84860	% Moisture

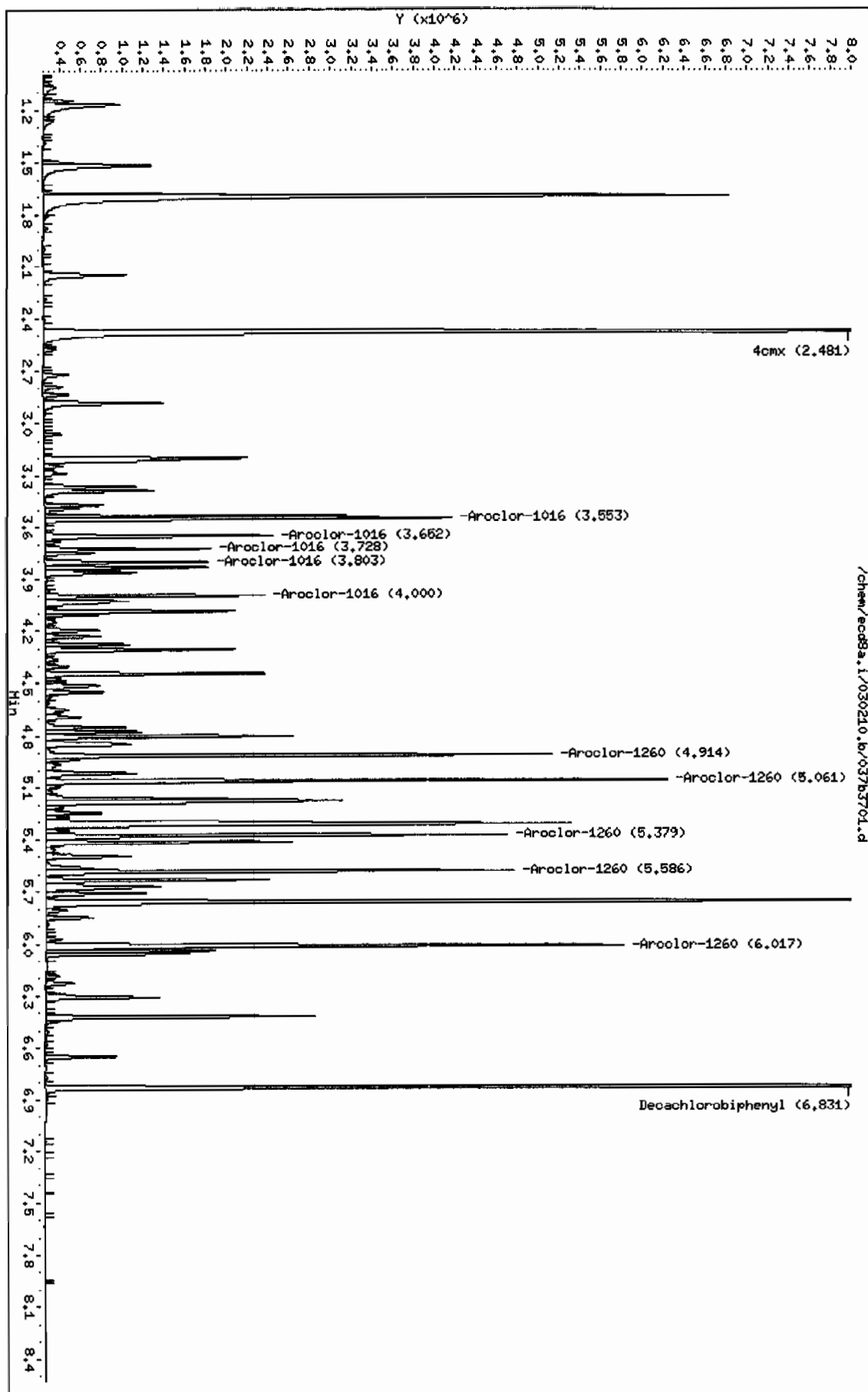
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx	2.481	2.482	-0.001	13974188 169.436	6.2 80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl	6.831	6.832	-0.001	10788524 175.031	6.4 80.00- 120.00	100.00
CAS #: 12674-11-2						
1 Aroclor-1016	3.553	3.554	-0.001	3239620 895.057	33.0 80.00- 120.00	100.00
	3.652	3.653	-0.001	2067736 857.930	31.6 43.27- 83.27	63.83
	3.728	3.729	-0.001	1324770 911.673	33.6 18.69- 58.69	40.89
	3.803	3.805	-0.002	1276373 890.215	32.8 17.10- 57.10	39.40
	4.000	4.001	-0.001	1736915 886.953	32.6 31.95- 71.95	53.61
Average of Peak Concentrations =				32.7		

				CONCENTRATIONS					
				ON-COL		FINAL			
RT	EXP RT	DLT RT	RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====		=====	=====	=====	=====	=====	=====
7 Aroclor-1260						CAS #: 11096-82-5			
4.914	4.915	-0.001		3997751	1007.85	37.1	80.00-	120.00	100.00
5.061	5.063	-0.002		4939655	1027.16	37.8	102.11-	142.11	123.56
5.379	5.380	-0.001		3806375	1034.40	38.1	73.00-	113.00	95.21
5.586	5.588	-0.002		3721080	972.628	35.8	76.97-	116.97	93.08
6.017	6.018	-0.001		5955226	993.564	36.6	132.07-	172.07	148.96
Average of Peak Concentrations =						37.1			

Data File: /chem/ecd8a.i/030210.b/037b3701.d
Date : 02-MAR-2010 15:51
Client ID: MST16-10-1328MS
Sample Info: 1120205765711
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JADG
Column diameter: 0.25



Data File: /chem/ecd8a.i/030210.b/037f3701.d
Report Date: 05-Mar-2010 12:17

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/037f3701.d

Lab Smp Id: 1202057857

Client Smp ID: WST16-10-13288MS

Inj Date : 02-MAR-2010 15:51

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202057857|1|

Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|MS|||

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 03-Mar-2010 08:07 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 37

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2097.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	30.13000	Weight of sample extracted (g)
M	9.84860	% 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		
2.250	2.251	-0.001	20388659 161.803	6.0	80.00- 120.00	100.00

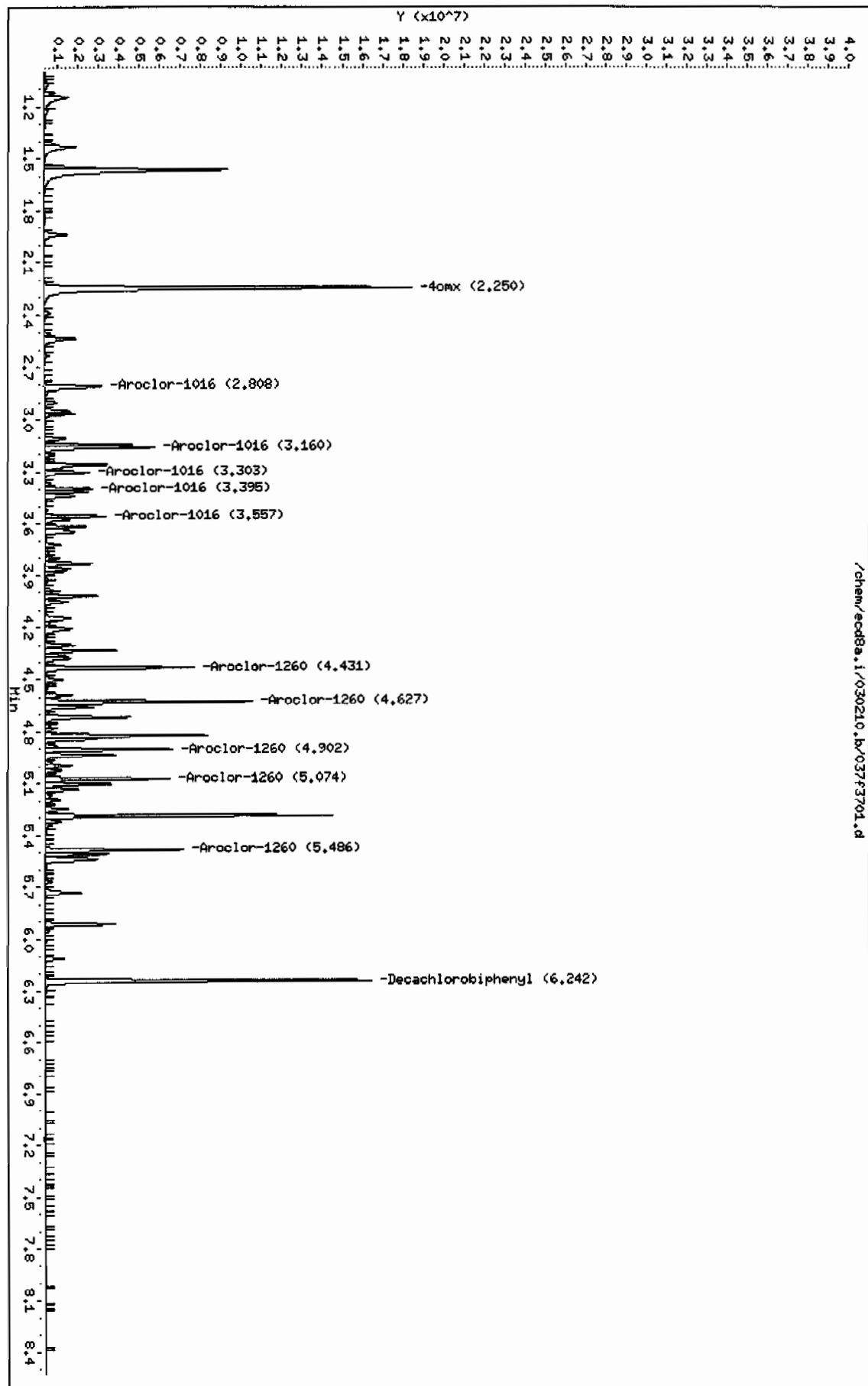
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.242	6.243	-0.001	13982240 154.811	5.7	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.808	2.808	0.000	3618456 795.042	29.3	80.00- 120.00	100.00
3.160	3.161	-0.001	4934214 879.529	32.4	110.65- 150.65	136.36
3.303	3.304	-0.001	2020469 844.572	31.1	33.51- 73.51	55.84
3.395	3.397	-0.002	1948017 910.025	33.5	26.95- 66.95	53.84
3.557	3.559	-0.002	2613285 843.223	31.0	48.05- 88.05	72.22
Average of Peak Concentrations =				31.5		

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5				
4.431	4.433	-0.002	6160045	951.277	35.0	80.00- 120.00	100.00
4.627	4.629	-0.002	9311178	975.170	35.9	128.55- 168.55	151.15
4.902	4.904	-0.002	5336802	941.954	34.7	67.09- 107.09	86.64
5.074	5.077	-0.003	5289653	895.940	33.0	70.83- 110.83	85.87
5.486	5.488	-0.002	5732934	920.388	33.9	79.33- 119.33	93.07
Average of Peak Concentrations =					34.5		

Data File: /chem/ecd8a.i/030210.b/037F3701.d
Date: 02-MAR-2010 15:51
Client ID: MST16-10-1328MS
Sample Info: 1120205785711
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecd8a.i
Operator: JROC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/038b3801.d

Lab Smp Id: 1202057858

Client Smp ID: WST16-10-13288MSD

Inj Date : 02-MAR-2010 16:04

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202057858|1|

Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|MSD|1|

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-B-8082-020310a.m

Meth Date : 03-Mar-2010 08:08 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 38

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2097.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	9.84860	% 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			
2.481	2.482	-0.001	14203447	172.215	6.3	80.00-	120.00	100.00

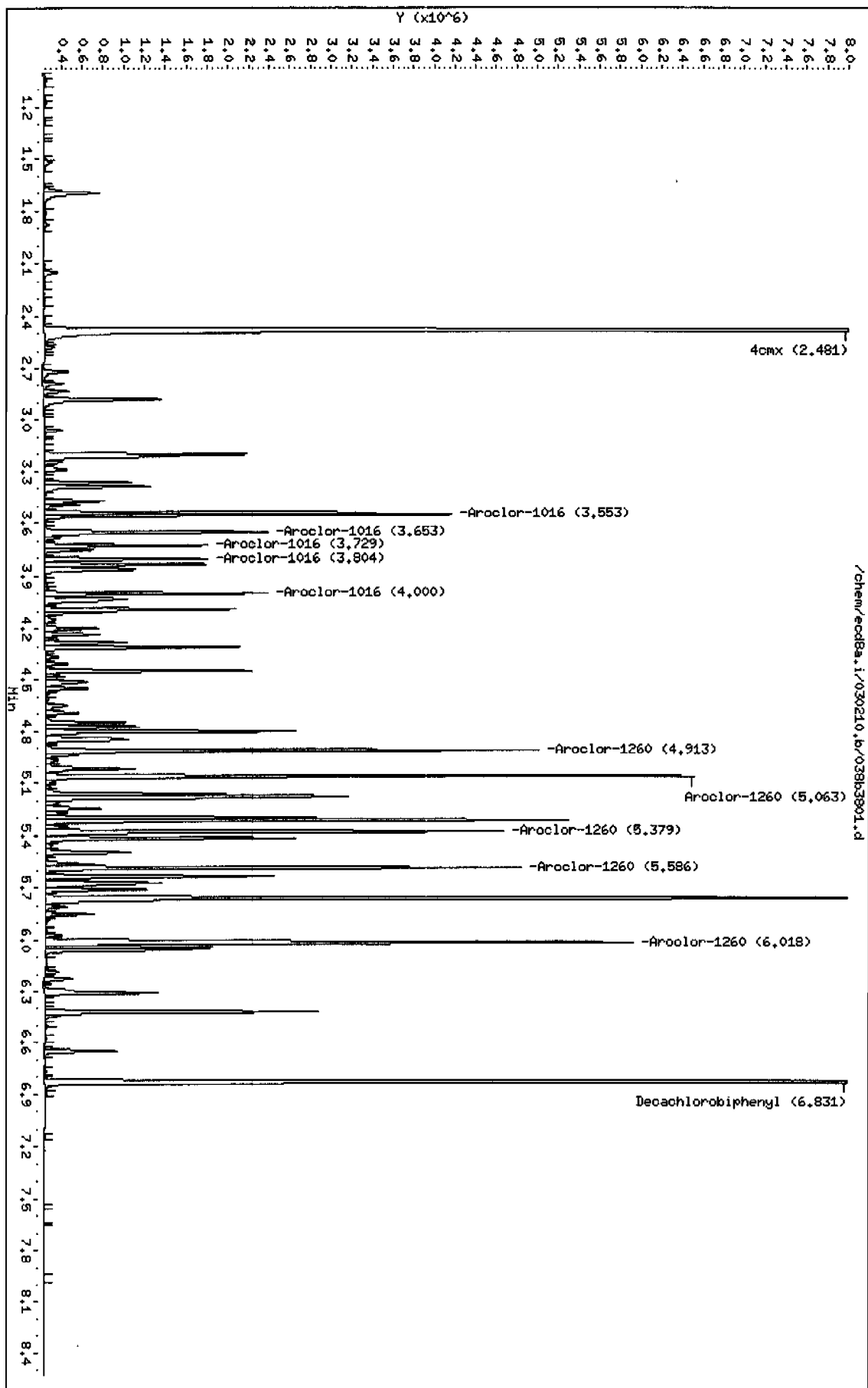
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.831	6.832	-0.001	11050606	179.283	6.6	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.553	3.554	-0.001	3280325	906.303	33.3	80.00-	120.00	100.00
3.653	3.653	0.000	2068321	858.173	31.5	43.27-	83.27	63.05
3.729	3.729	0.000	1313282	903.767	33.2	18.69-	58.69	40.04
3.804	3.805	-0.001	1272199	887.303	32.6	17.10-	57.10	38.78
4.000	4.001	-0.001	1731834	884.359	32.5	31.95-	71.95	52.79
Average of Peak Concentrations =					32.6			

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5			
4.913	4.915	-0.002	3981479	1003.75	36.9	80.00- 120.00	100.00
5.063	5.063	0.000	5036210	1047.24	38.5	102.11- 142.11	126.49
5.379	5.380	-0.001	3825173	1039.51	38.2	73.00- 113.00	96.07
5.586	5.588	-0.002	3807504	995.218	36.6	76.97- 116.97	95.63
6.018	6.018	0.000	6093870	1016.69	37.4	132.07- 172.07	153.06
Average of Peak Concentrations =				37.5			

Data File: /chem/eod8a.i/030210.b/03863801.d
Date: 02-MAR-2010 16:04
Client ID: MST16-10-1328HSD
Sample Info: 11202057898111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod8a.i
Operator: JHOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030210.b/038f3801.d

Lab Smp Id: 1202057858

Client Smp ID: WST16-10-13288MSD

Inj Date : 02-MAR-2010 16:04

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202057858|1|

Misc Info : |ECD82P_1S|959468|SVA|QC A|SOIL|MSD|

Comment :

Method : /chem/ecd8a.i/030210.b/ECD8-F-8082-020310a.m

Meth Date : 03-Mar-2010 08:07 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 38

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2097.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	9.84860	% 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			
2.251	2.251	0.000	20369988	161.655	5.9	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.242	6.243	-0.001	14763102	163.457	6.0	80.00-	120.00	100.00

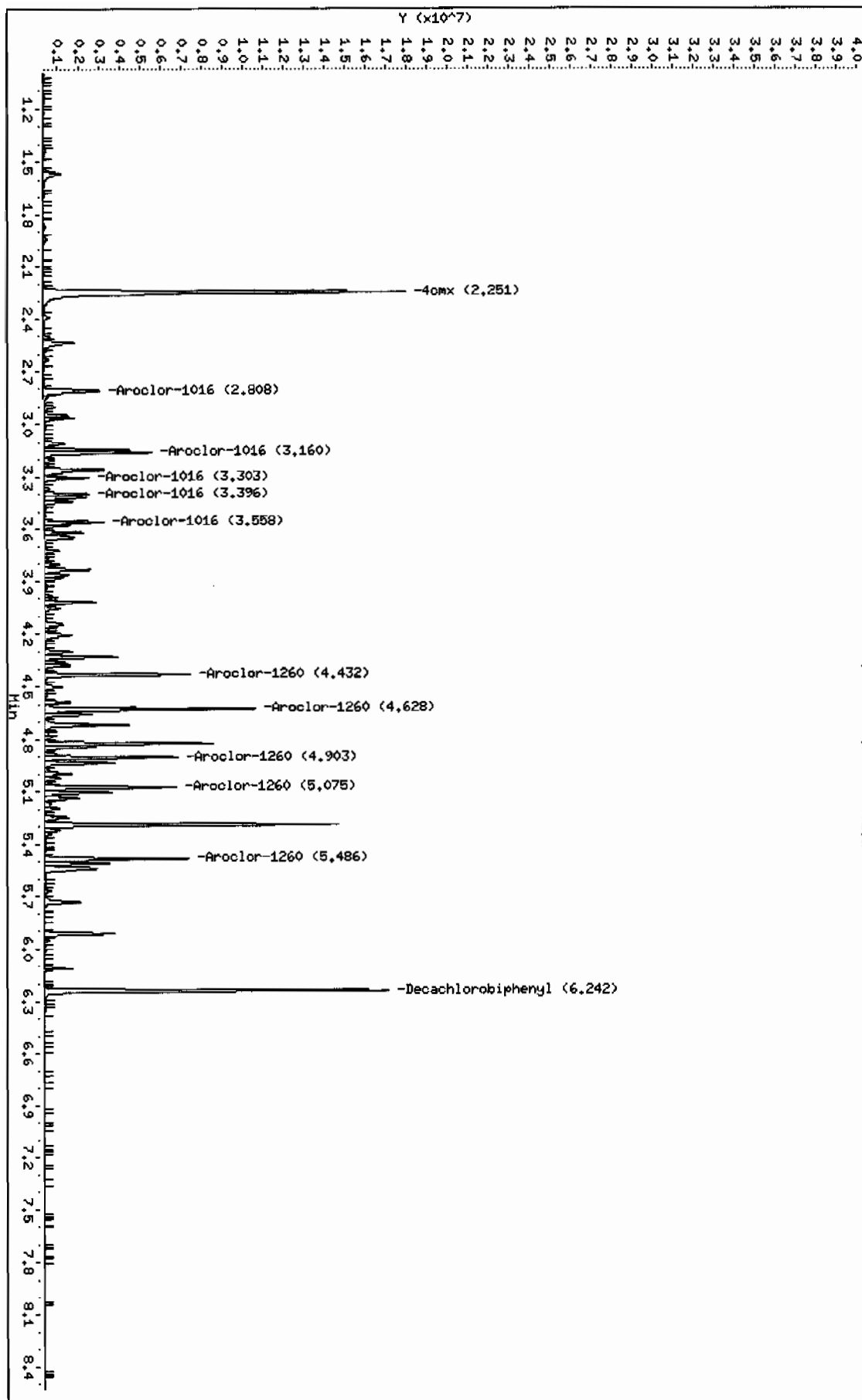
1 Aroclor-1016					CAS #: 12674-11-2			
2.808	2.808	0.000	3560863	782.388	28.8	80.00-	120.00	100.00
3.160	3.161	-0.001	4707481	839.114	30.8	110.65-	150.65	132.20
3.303	3.304	-0.001	1962202	820.216	30.1	33.51-	73.51	55.10
3.396	3.397	-0.001	1841805	860.407	31.6	26.95-	66.95	51.72
3.558	3.559	-0.001	2507472	809.081	29.7	48.05-	88.05	70.42
Average of Peak Concentrations =					30.2			

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5			
4.432	4.433	-0.001	6051729	934.550	34.3 80.00- 120.00	100.00
4.628	4.629	-0.001	9179302	961.358	35.3 128.55- 168.55	151.68
4.903	4.904	-0.001	5393082	951.887	35.0 67.09- 107.09	89.12
5.075	5.077	-0.002	5344373	905.208	33.3 70.83- 110.83	88.31
5.486	5.488	-0.002	5881165	944.186	34.7 79.33- 119.33	97.18
Average of Peak Concentrations =			34.5			

Data File: /chem/ecob8a.i/030210.b/038f3801.d
Date: 02-MAR-2010 16:04
Client ID: MST16-10-1328HSD
Sample Info: 1120205785811
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecob8a.i
Operator: JAC
Column diameter: 0.25

/chem/ecob8a.i/030210.b/038f3801.d



Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 959464
 Analyst: Alberto Velasco
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)		
1202057855 MB	01-MAR-2010 23:33:00	30	1	0.03333		
1202057856 LCS	01-MAR-2010 23:33:00	30	1	0.03333		
247904015	01-MAR-2010 23:33:00	30.05	1	0.03328		
247904016	01-MAR-2010 23:33:00	30.1	1	0.03322		
247904017	01-MAR-2010 23:33:00	30.08	1	0.03324		
247915001	01-MAR-2010 23:33:00	30.02	1	0.03331		
247915002	01-MAR-2010 23:33:00	30.02	1	0.03331		
247915003	01-MAR-2010 23:33:00	30.13	1	0.03319		
247915004	01-MAR-2010 23:33:00	30.15	1	0.03317		
247915005	01-MAR-2010 23:33:00	30.15	1	0.03317		
247915006	01-MAR-2010 23:33:00	30.13	1	0.03319		
247915007	01-MAR-2010 23:33:00	30.05	1	0.03328		
247920002	01-MAR-2010 23:33:00	30.04	1	0.03329		
248012002	01-MAR-2010 23:33:00	30.05	1	0.03328		
248013001	01-MAR-2010 23:33:00	30.18	1	0.03313		
248013002	01-MAR-2010 23:33:00	30.05	1	0.03328		
248013003	01-MAR-2010 23:33:00	30.1	1	0.03322		
248013004	01-MAR-2010 23:33:00	30.19	1	0.03312		
248130002	01-MAR-2010 23:33:00	30.01	1	0.03332		
1202057857 MS (248130002)	01-MAR-2010 23:33:00	30.13	1	0.03319		
1202057858 MSD (248130002)	01-MAR-2010 23:33:00	30.18	1	0.03313		
248130003	01-MAR-2010 23:33:00	30.19	1	0.03312		
248130004	01-MAR-2010 23:33:00	30.2	1	0.03311		
248130005	01-MAR-2010 23:33:00	30.1	1	0.03322		
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202057856	PCB Laboratory Control	WEI00224-07	1	mL	Clean up Date: 3-1-10
MS	1202057857	PCB Laboratory Control	WEI00224-07	1	mL	Clean up Initials: AAW
MSD	1202057858	PCB Laboratory Control	WEI00224-07	1	mL	Verified By: AAW
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UEI00222-15	1	mL	Final Solvent: Hexane
REGNT	All	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037
REGNT	All	Hexane	127340-B2	150	mL	
REGNT	All	Acetone	1273823-B1	150	mL	
REGNT	All	5% Potassium Permanganate	B1275177-F	5	mL	
SOURC	All	SODIUM SULFATE	1274910	30	g	