

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

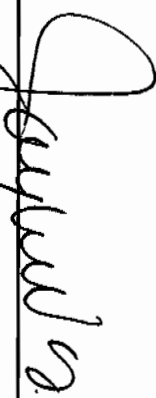
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



Page 1 of 2
REQUEST NUMBER: 10-2009

These Samples are on:

LANL Request Number: 10-2009
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7893	R	2/18/2010	
		1	RE15-10-7894	R	2/18/2010	
		1	RE15-10-7895	R	2/18/2010	
		1	RE15-10-7896	R	2/18/2010	
		1	RE15-10-7897	R	2/18/2010	
		1	RE15-10-7898	R	2/18/2010	
		1	RE15-10-7899	R	2/18/2010	
		1	RE15-10-7900	R	2/18/2010	
	SW-846:8321A_MOD	1	RE15-10-7893	R	2/18/2010	

Tuesday, February 23, 2010

Page 2 of 2
REQUEST NUMBER: 10-2009

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-7894	R	2/18/2010	
		1	RE15-10-7895	R	2/18/2010	
		1	RE15-10-7896	R	2/18/2010	
		1	RE15-10-7897	R	2/18/2010	
		1	RE15-10-7898	R	2/18/2010	
		1	RE15-10-7899	R	2/18/2010	
		1	RE15-10-7900	R	2/18/2010	
		1	RE15-10-8001	R	2/18/2010	
		1	RE15-10-8002	R	2/18/2010	
		1	RE15-10-8003	R	2/18/2010	
		1	RE15-10-8004	R	2/18/2010	
		1	RE15-10-8005	R	2/18/2010	
		1	RE15-10-8006	R	2/18/2010	
		1	RE15-10-8007	R	2/18/2010	
		1	RE15-10-8008	R	2/18/2010	
		1	RE15-10-8009	R	2/18/2010	
		1	RE15-10-8010	R	2/18/2010	
		1	RE15-10-8011	R	2/18/2010	
		1	RE15-10-8012	R	2/18/2010	

Final Page of REQUEST NUMBER 10-2009

Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2009

LOS ALAMOS

REQUEST NUMBER: 10-2009

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
RE15-10-7896	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7894	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7900	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7898	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7897	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7895	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7899	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7893	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8011	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8004	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8009	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8003	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8007	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8002	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8010	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8006	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8001	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8012	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8008	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8005	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-7893

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	QBT3	11 ^m 2/18/10	AT SED
TIME COLLECTED (HH:MM)		0916		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610716	↓		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	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 IL RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown frozen silty sand, pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-6, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative


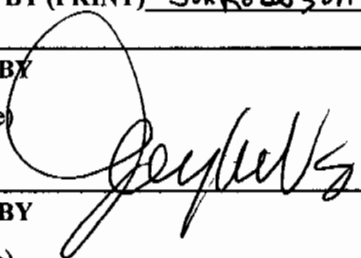
Alpha \leq 11 dpm
Beta/Gamma \leq 1755 dpm

PID $\frac{\text{Ambient Reading}}{2.1} = \frac{0.0}{2.1}$ ppm

COLLECTED BY (PRINT)

TL McFarland

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: RE15-10-7894

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)		0930		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	15-610716	↓		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	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	TOTAL POLY 1L RS 01-11-10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown moist sand, some tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-6 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 5 dpm
Beta/Gamma \leq 1617 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{1.3} \text{ ppm}$

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT) Joe Roberson

RELINQUISHED BY (Printed Name) Joe Roberson (Signature) <i>Joe Roberson</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) <i>Joe 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: RE15-10-7895

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1307		SUB-MEDIA:		TUFF1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610717	↓		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/NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		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 GAL POLY IL RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown sand, roots

FD: RE15-10-8065

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-17, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha ≤ 27 dpm
Beta/Gamma ≤ 2130 dpmPID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppmCOLLECTED BY (PRINT)
TLMcFarland

REVIEWED BY (PRINT) Lesley A Lopez

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Z m7	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) [Signature] (Signature) [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: RE15-10-7896

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1315		SUB-MEDIA:		TUFF1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610717	↓		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		NO/NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		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 GAL POLY 1L RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b - 17

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 27 dpm
Beta/Gamma \leq 2280 dpm

PID $\frac{\text{Ambient Reading}}{0.6} \frac{0.0}{0.6}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Lacey A. Lopez

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Zett	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) [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: RE15-10-7897

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1334		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 15-610718		↓		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	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 1L RS 01-11-10	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-11 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 44 dpm
Beta/Gamma \leq 2020 dpm

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

HE = NEG(-)

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Lacey A. Lopez

RELINQUISHED BY (Printed Name) TL McFarland (Signature) <i>TL McFarland</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <i>Jay W</i> (Signature) <i>Jay W</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: RE15-10-7898

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1347		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610718	↓		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	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 1L RS 01-11-10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

moist dark brown sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b - 11 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 27 dpm
Beta/Gamma \leq 1997 dpm

PID $\frac{\text{Ambient Reading}}{1.6} = \frac{0.0}{1.6}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (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: RE15-10-7899

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1430		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610719	↓		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		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	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 L POLY 1L RS 01-11-10	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Brown sandy silt

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-1 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 1955 dpm

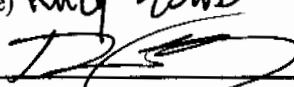
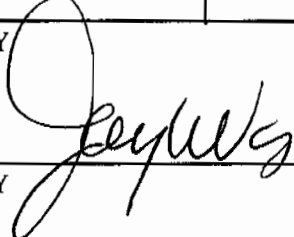
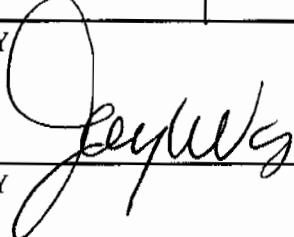
HE neg
PID $\frac{\text{Ambient Reading}}{0.1} = 0.0$ ppm

COLLECTED BY (PRINT)

ThmCFarlane

REVIEWED BY (PRINT)

Riley Ewms

RELINQUISHED BY (Printed Name) Riley Ewms (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: RE15-10-7900

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	OBT3		ok
TIME COLLECTED (HH:MM)		1445		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610719	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	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 LITER POLY 1L RS 01-11-10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray Tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 1817 dpm

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

COLLECTED BY (PRINT)

Th McFarlane

REVIEWED BY (PRINT)

Lance A. Lopez

RELINQUISHED BY (Printed Name) Riley Gounis (Signature) [Signature]	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) [Signature] (Signature) [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: RE15-10-8001

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):	7 ^{PM} 2/18/10	02/18/2010		MEDIA:	OBT3		SED
TIME COLLECTED (HH:MM)	2/18/10	0956		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610770			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			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			
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 frozen ^{7^{PM} 2/18/10} silty sand, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-20, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpmBeta/Gamma \leq 2330 dpm

HE negative

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

COLLECTED BY (PRINT)

TLMcFarland

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>Geoff Ws</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: RE15-10-8002

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)		1012		SUB-MEDIA: TUFF 1		↓	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610770	↓		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		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 <i>xc</i>	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 and brown silty sand, some roots

SAMPLE COMMENTS:

Tuff at 1.5 ft

LOCATION DESC:

8b-20, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 38 dpm
Beta/Gamma \leq 2020 dpm

PID $\frac{\text{Ambient Reading}}{12.7} = \frac{0.0}{12.7}$ ppm

COLLECTED BY (PRINT)

TL 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) Sherri Sherwood (Signature) <i>Sherri Sherwood</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: RE15-10-8003

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)		1002		SUB-MEDIA: TUFF.1		NA	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610771	↓		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 11 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 silty sand, some lamy material, roots, leaves

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-5, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \pm 38 dpm
Beta/Gamma \pm 2420 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) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>Sherri Sherwood</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: RE15-10-8004

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1624		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610771		↓		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		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 ok	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 moist silty sand, roots

SAMPLE COMMENTS:

NA

FR: RE15-10-8089

LOCATION DESC:

8b-5 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm
Beta/Gamma = 1907 dpm

PID $\frac{\text{Ambient Reading}}{0.7} = 0.0$ ppm

COLLECTED BY (PRINT)

T. M. C. Farlane

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: RE15-10-8005

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		OBT3
TIME COLLECTED (HH:MM)		1038	SUB-MEDIA:		TUFF 1
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	15-610772	↓	FIELD QC TYPE:		NA
LOCATION TYPE:	GENERIC	↓	FIELD PREP:		NA
TOP DEPTH:	0	0.0 @ 13m	SAMPLE USAGE:		INV
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	5	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:

Brownish black silty sand, moist

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b - 21

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 5 dpm
Beta/Gamma \leq 2500 dpm

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

COLLECTED BY (PRINT)

TLMcFarlane

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) Jon Roberson	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) [Signature] (Signature) [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: RE15-10-8006

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		QBT3
TIME COLLECTED (HH:MM)		1045	SUB-MEDIA:		TUFF 1
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	15-610772	↓	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 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:

Tannish brown silty sand,
tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-21

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 2220 dpm

HE neg

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

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) Jon Roberson	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) Jay Williams	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: RE15-10-8007

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)		1055	SUB-MEDIA:	TUFF1	NA
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	15-610773	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC		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		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NR	

#	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 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:

Brown moist silty sand

FD: RE15-10-8035

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-10 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm

Beta/Gamma = 2010 dpm

HE neg.

PID Ambient 0.0
Reading 8.0 ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY: (Printed Name) J. Roberson (Signature) Jon Roberson	Date/Time 2/18/10 1650	RECEIVED BY: (Printed Name) (Signature) J. Roberson	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: RE15-10-8008

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1135		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610773	↓		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 11 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:

Brown sandy silt, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-10 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpmBeta/Gamma \neq 2380 dpmPID $\frac{\text{Ambient}}{\text{Reading}} \frac{6.0}{0.7}$ 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>Jeffrey W. 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: RE15-10-8009

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1059		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610774	↓		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		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 LITER POLY 11 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 loamy silt, organics

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-22, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 5100 dpm

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

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) Jon Roberson

Th McFarland

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1050	RECEIVED BY (Printed Name) (Signature) <i>[Signature]</i>	Date/Time 2/18/10 1050
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: RE15-10-8010

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		QBT3
TIME COLLECTED (HH:MM)		1105	SUB-MEDIA:		TUFF 1
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	15-610774	↓	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	ok	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA		

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

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	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:

Gray tuff, roots

SAMPLE COMMENTS:

Tuff at 1.0 ft

LOCATION DESC:

8b-22, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 27 dpm

Beta/Gamma = 2520 dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

JonRoberson

RELINQUISHED BY (Printed Name) JonRoberson (Signature) <i>JonRoberson</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) <i>JonRoberson</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: RE15-10-8011

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1135		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610775	↓		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/NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		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 loamy silt, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-16 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha ≤ 11 dpm

Beta/Gamma ≤ 2070 dpm

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

COLLECTED BY (PRINT)

L 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) <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: RE15-10-8012

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1138		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610775	↓		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 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, weathered tuff, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-16 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm

Beta/Gamma = 2110 dpm

PID $\frac{\text{Ambient Reading}}{46.0} = \frac{0.0}{46.0} \text{ ppm}$

COLLECTED BY (PRINT)

Th 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>Gayle W</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



133 State Road 4, White Rock, NM 87544
605-672-2770 FAX 605-672-9534

ARS Sample Delivery Group: AR52-10-00061
Client Sample ID: RE18-10-7893
Sample Collection Date: 02/18/10 09:16
Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: AR52-10-00061-001
Date Received: 02/19/10 00:00
Report Date: 02/22/10 12:00

Analysis Description	Analysis Results	Analysis Error +/- 2σ	MDL	TOT	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Transfer/Chem Recovery
GROSS ALPHA	20.52	27.74	37.46	27.98		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	29.98	14.33	18.42	14.79		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.11	0.14	0.08	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	20.01	0.33	0.07	6.35		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.00	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.02	0.05	0.03	0.05		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.19	0.18	0.05	0.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.03	-0.04	0.21	-0.04		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.71	0.32	0.12	0.32		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.00	0.00	0.30	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.76	0.34	0.30	0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.07	2.23	0.07	2.42		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM 241	0.35	0.38	0.14	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 3.80										

Matthew J. Edger
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-8534

ARS Sample Delivery Group: ARS2-10-00061

Request or PQ Number:

Client Sample ID: RE15-10-7894

ARS Sample ID: ARS2-10-00061-002

Sample Collection Date: 02/18/10 09:50

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 12:59

Analysis Description	Analysis Results	Analysis Error +/- 2 s	NDC	TPU	Qual	Analysis units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	5.16	16.04	34.06	16.86		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	31.18	13.86	17.92	14.37		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.02	0.09	0.07	0.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	24.34	6.75	0.77	6.79		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.04	0.00	0.05	0.06		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.09	0.04	0.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
HU-192	-0.30	92.88	0.21	92.88		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.51	0.30	0.13	0.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.60	0.26	0.24	0.26		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.83	0.44	0.31	0.44		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	3.02	2.77	1.08	2.66		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.02	21.16	0.05	21.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 3.12

Matthew L Eden
Quality Assurance Review

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133 State Road 4, White Rock, NM 87544

505-872-2770 FAX 505-872-9534

ARS Sample Delivery Group: ARS2-10-00061

Request or PO Number:

Client Sample ID: RE15-10-7895

ARS Sample ID: ARS2-10-00061-003

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

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 13:00

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TFU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracker/Chain Recovery
GROSS ALPHA	17.21	21.33	32.65	21.43		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	44.80	16.00	18.12	16.91		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	41.38	0.13	41.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	3.90	6.03	2.67	6.03		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	0.12	0.15	0.12	0.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.03	0.11	0.09	0.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.56	160.17	0.36	160.17		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.43	0.54	0.16	0.55		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-226	2.37	1.07	0.35	1.02		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.55	0.88	0.47	0.88		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	3.77	3.08	1.30	3.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.54	0.38	0.13	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.91

Martin A. Eder
 Quality Assurance Review

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133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

AKS sample delivery group: AR52-10-00061

Request or PO Number:

Client Sample ID: RE15-10-7896

ARS Sample ID: AR52-10-00061-004

Sample Collection Date: 02/18/10 13:15

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 13:00

Analysis Description	Analysis Results	Analysis Error +/- 1 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	37.31	28.68	33.91	29.04		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	19.60	13.04	17.73	13.26		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.11	0.21	0.12	0.21		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	21.30	8.38	1.35	8.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.11	0.14	0.13	0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.17	0.22	0.09	0.22		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.03	0.10	0.09	0.10		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.53	151.41	0.34	151.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.52	0.52	0.14	0.53		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.58	0.99	0.33	0.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	-0.57	197.36	0.44	197.36		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-236	4.14	2.91	1.20	3.06		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.18	0.37	0.16	0.37		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 0.51										

[Signature]
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: ARS2-10-00061
 Client Sample ID: RE15-10-789/
 Sample Collection Date: 02/18/10 13:34
 Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00061-005

Date Received: 02/19/10 00:00

Report Date: 02/22/10 13:00

Analysis Description	Analysis Result	Analysis Error +/- 2s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis technician	Tracer/Chem Recovery
GROSS ALPHA	-0.19	14.35	37.39	14.25		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	26.61	13.32	18.33	13.72		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	31.73	0.10	31.73		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	1.22	7.01	3.31	7.01		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	0.24	0.19	0.13	0.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.28	0.29	0.09	0.29		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.13	-0.27	0.29	-0.27		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.53	0.49	0.14	0.49		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.00	0.00	0.27	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.67	0.94	0.40	0.95		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	14.97	5.66	1.92	5.61		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.01	-0.13	0.00	-0.13		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 1.85

[Signature]
 Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00061

Request or PO Number:

Client Sample ID: RE15-10-7898

ARS Sample ID: AR52-10-00061-006

Sample Collection Date: 02/18/10 13:47

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 13:00

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	28.23	25.82	34.06	28.05		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	30.98	14.38	17.92	14.77		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.04	0.15	0.12	0.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	26.59	9.40	1.37	9.43		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.40	0.29	0.09	0.29		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	0.10	0.15	0.38	0.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.28	0.54	0.19	0.55		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.00	0.00	0.33	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	-0.04	-0.55	0.41	-0.55		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	7.47	4.39	1.08	4.71		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.13	0.31	0.15	0.31		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 1.36

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 505-672-9834

ARS Sample Delivery Group: ARS2-10-00061
 Client Sample ID: RE15-10-7899
 Sample Collection Date: 02/18/10 14:30
 Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00061-007

Data Received: 02/19/10 00:00

Report Date: 02/22/10 13:00

Analysis Description	Analysis Results	Analysis Error +/- %	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	17.26	21.39	32.78	21.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	40.42	15.65	18.31	16.41		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	30.28	0.10	30.28		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	26.01	8.12	1.04	8.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.06	0.12	0.10	0.12		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.13	0.10	0.07	0.10		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.49	0.26	0.06	0.27		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
SU-152	0.30	0.37	0.26	0.37		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PD-212	0.89	0.39	0.14	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-226	1.28	0.81	0.25	0.81		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.64	0.56	0.41	0.56		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	5.70	3.24	1.24	3.49		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.31	0.35	0.15	0.35		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 2.47

Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2009 VALIDATION DATE: 4/16/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

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

- The initial calibration RRF value for p-nitrotoluene was <0.05 but ≥ 0.01 . All associated sample results were NDs and, thus, were qualified UJ,HE7b.
- The CCV %Ds were $>20\%$ with positive bias, for 2,6-diamino-4-nitrotoluene associated with all the samples, for 2,4,6-trinitrotoluene and tetryl associated with samples RE15-10-8011, -8004 and -8009 and for 2,4-diamino-6-nitrotoluene associated with samples -7896, -7894, -7900, -7898, -7897 and -7895. All associated sample results were NDs and, thus, were not qualified.
- The LCS %R for tetryl was $<$ the laboratory LAL but $\geq 10\%$. All associated sample results were NDs and, thus, were qualified UJ,HE12a. The LCS %R for 2,6-diamino-4-nitrotoluene was $>$ the laboratory UAL. All associated sample results were NDs and, thus, data were not qualified.
- The MSD %R for tetryl was $<$ the laboratory LAL but $\geq 10\%$. All associated sample results were NDs and, thus, were qualified UJ,HE12e.
- The MS/MSD RPD for tetryl was $>$ the laboratory acceptance limit. All associated sample results were NDs and, thus, were qualified UJ,HE12g.

Reviewed by: Susan Ball


Level: I


Date: 04/19/10

VALIDATOR'S SIGNATURE:


A handwritten signature in cursive script that reads 'Eyda Hergenreder'.

DATE: 4/16/10


DATA VALIDATION COVER SHEET	
5122-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1943
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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE3d	R, HE3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is ≤ 5 times the concentration of the related analyte in the method blank.	U, HE4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5x$.	N/A	J, HE4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, HE4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE4e	R, HE4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The absence of sample carry-over must be determined and verified.	N/A	R, N, HE4f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, HE7	J, HE7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is less < 0.99 .	UJ, R, HE7a	J, HE7a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of < 0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

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

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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897001

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408015a

Date Analyzed: 09-APR-10 04:25

Units: ug/kg

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897001

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220063.wiff

Date Analyzed: 23-MAR-10 07:27

Units: ug/kg

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

*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution Factor
Sample Amount

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7894

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897002

Sample Amount 2

Moisture: 26.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408018a

Date Analyzed: 09-APR-10 05:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7894

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897002

Sample Amount 2

Moisture: 26.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220066.wiff

Date Analyzed: 23-MAR-10 08:14

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7900

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897003

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408019a

Date Analyzed: 09-APR-10 06:23

Units: ug/kg

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7900

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897003

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220067.wiff

Date Analyzed: 23-MAR-10 08:30

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7898

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897004

Sample Amount 2

Moisture: 15.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408020a

Date Analyzed: 09-APR-10 06:52

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7898

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897004

Sample Amount 2

Moisture: 15.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220068.wiff

Date Analyzed: 23-MAR-10 08:45

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7897

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897005

Sample Amount 2

Moisture: 16.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408021a

Date Analyzed: 09-APR-10 07:22

Units: ug/kg

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7897

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897005

Sample Amount 2

Moisture: 16.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220069.wiff

Date Analyzed: 23-MAR-10 09:01

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7895

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897006

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408022a

Date Analyzed: 09-APR-10 07:51

Units: ug/kg

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7895

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897006

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220070.wiff

Date Analyzed: 23-MAR-10 09:17

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7899

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897007

Sample Amount 2

Moisture: 18.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408026a

Date Analyzed: 09-APR-10 09:49

Units: ug/kg

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7899

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897007

Sample Amount 2

Moisture: 18.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: HXS03220074.wiff

Date Analyzed: 23-MAR-10 10:20

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7893

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897008

Sample Amount 2

Moisture: 28.0

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408027a

Date Analyzed: 09-APR-10 10:19

Units: ug/kg

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7893

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897008

Sample Amount 2

Moisture: 28.0

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220075.wiff

Date Analyzed: 23-MAR-10 10:35

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8011

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408082a

Date Analyzed: 10-APR-10 13:25

Units: ug/kg

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8011

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220076.wiff

Date Analyzed: 23-MAR-10 10:51

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8004

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408083a

Date Analyzed: 10-APR-10 13:54

Units: ug/kg

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8004

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897010

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220077.wiff

Date Analyzed: 23-MAR-10 11:07

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8009

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408084a

Date Analyzed: 10-APR-10 14:24

Units: ug/kg

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8009

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220078.wiff

Date Analyzed: 23-MAR-10 11:23

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

EH
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8003

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408031a

Date Analyzed: 09-APR-10 12:17

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8003

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220079.wiff

Date Analyzed: 23-MAR-10 11:38

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8007

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408032a

Date Analyzed: 09-APR-10 12:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl 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	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8007

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220080.wiff

Date Analyzed: 23-MAR-10 11:54

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8002

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408033a

Date Analyzed: 09-APR-10 13:16

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8002

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220081.wiff

Date Analyzed: 23-MAR-10 12:10

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8010

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408034a

Date Analyzed: 09-APR-10 13:45

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8010

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220082.wiff

Date Analyzed: 23-MAR-10 12:26

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
------------------	---	---	---	-----------------

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8006

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408035a

Date Analyzed: 09-APR-10 14:15

Units: ug/kg

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8006

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220083.wiff

Date Analyzed: 23-MAR-10 12:42

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8001

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408039a

Date Analyzed: 09-APR-10 16:13

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8001

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220087.wiff

Date Analyzed: 23-MAR-10 13:45

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8012

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408040a

Date Analyzed: 09-APR-10 16:46

Units: ug/kg

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8012

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220088.wiff

Date Analyzed: 23-MAR-10 14:02

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8008

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408041a

Date Analyzed: 09-APR-10 17:15

Units: ug/kg

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

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8008

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220089.wiff

Date Analyzed: 23-MAR-10 14:17

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8005

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897020

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408042a

Date Analyzed: 09-APR-10 17:45

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

EH
4/16/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8005

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897020

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220090.wiff

Date Analyzed: 23-MAR-10 14:33

Units: ug/kg

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

*Concentration =

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

EH
4/16/10

DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2009 VALIDATION DATE: 4/19/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Eyda Hergenreder ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

None.

Reviewed by: Susan Ball

Level: I

Date: 04/19/10

VALIDATOR'S SIGNATURE:

A handwritten signature of Eyda Hergenreder in cursive script.

DATE: 4/19/10

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

5116-2

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

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				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 ≥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 checked="" type="checkbox"/>	<input type="checkbox"/>	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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

SDG Number: 10-2009
Lab Sample ID: 247897008

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 28
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	4.63	ug/kg	1.54	4.63	1
11104-28-2	Aroclor-1221	U	4.63	ug/kg	1.54	4.63	1
11141-16-5	Aroclor-1232	U	4.63	ug/kg	1.54	4.63	1
53469-21-9	Aroclor-1242	U	4.63	ug/kg	1.54	4.63	1
12672-29-6	Aroclor-1248	U	4.63	ug/kg	1.54	4.63	1
11097-69-1	Aroclor-1254	U	4.63	ug/kg	1.54	4.63	1
11096-82-5	Aroclor-1260	U	4.63	ug/kg	1.54	4.63	1

EH
4/19/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897002

Client ID: RE15-10-7894
Batch ID: 958628
Run Date: 03/02/2010 18:10
Prep Date: 03/01/2010 11:47
Data File: 063f6301.d
063b6301.d

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.09 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 26.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.55	ug/kg	1.51	4.55	1
11104-28-2	Aroclor-1221	U	4.55	ug/kg	1.51	4.55	1
11141-16-5	Aroclor-1232	U	4.55	ug/kg	1.51	4.55	1
53469-21-9	Aroclor-1242	U	4.55	ug/kg	1.51	4.55	1
12672-29-6	Aroclor-1248	U	4.55	ug/kg	1.51	4.55	1
11097-69-1	Aroclor-1254	J	2.20	ug/kg	1.51	4.55	1
11096-82-5	Aroclor-1260	U	4.55	ug/kg	1.51	4.55	1

EH
4/19/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897006

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7895
Batch ID: 958628
Run Date: 03/02/2010 19:01
Prep Date: 03/01/2010 11:47
Data File: 067f6701.d
067b6701.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.69	ug/kg	1.23	3.69	1
11104-28-2	Aroclor-1221	U	3.69	ug/kg	1.23	3.69	1
11141-16-5	Aroclor-1232	U	3.69	ug/kg	1.23	3.69	1
53469-21-9	Aroclor-1242	U	3.69	ug/kg	1.23	3.69	1
12672-29-6	Aroclor-1248	U	3.69	ug/kg	1.23	3.69	1
11097-69-1	Aroclor-1254	U	3.69	ug/kg	1.23	3.69	1
11096-82-5	Aroclor-1260	U	3.69	ug/kg	1.23	3.69	1

EH
4/19/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897001

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 5.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.54	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260	U	3.54	ug/kg	1.18	3.54	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897005

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 16.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7897
Batch ID: 958628
Run Date: 03/02/2010 18:48
Prep Date: 03/01/2010 11:47
Data File: 066f6601.d
066b6601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.98	ug/kg	1.32	3.98	1
11104-28-2	Aroclor-1221	U	3.98	ug/kg	1.32	3.98	1
11141-16-5	Aroclor-1232	U	3.98	ug/kg	1.32	3.98	1
53469-21-9	Aroclor-1242	U	3.98	ug/kg	1.32	3.98	1
12672-29-6	Aroclor-1248	U	3.98	ug/kg	1.32	3.98	1
11097-69-1	Aroclor-1254		9.30	ug/kg	1.32	3.98	1
11096-82-5	Aroclor-1260		7.20	ug/kg	1.32	3.98	1

EH
4/19/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897004

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Allquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 15.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.94	ug/kg	1.31	3.94	1
11104-28-2	Aroclor-1221	U	3.94	ug/kg	1.31	3.94	1
11141-16-5	Aroclor-1232	U	3.94	ug/kg	1.31	3.94	1
53469-21-9	Aroclor-1242	U	3.94	ug/kg	1.31	3.94	1
12672-29-6	Aroclor-1248	U	3.94	ug/kg	1.31	3.94	1
11097-69-1	Aroclor-1254	JP	3.50	ug/kg	1.31	3.94	1
11096-82-5	Aroclor-1260	J	2.60	ug/kg	1.31	3.94	1

EH
4/19/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897007

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1AJ
Analyst: YS1
Allquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 18.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7899
Batch ID: 958628
Run Date: 03/02/2010 19:13
Prep Date: 03/01/2010 11:47
Data File: 068f6801.d
068b6801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.08	ug/kg	1.36	4.08	1
11104-28-2	Aroclor-1221	U	4.08	ug/kg	1.36	4.08	1
11141-16-5	Aroclor-1232	U	4.08	ug/kg	1.36	4.08	1
53469-21-9	Aroclor-1242	U	4.08	ug/kg	1.36	4.08	1
12672-29-6	Aroclor-1248	U	4.08	ug/kg	1.36	4.08	1
11097-69-1	Aroclor-1254	U	4.08	ug/kg	1.36	4.08	1
11096-82-5	Aroclor-1260	U	4.08	ug/kg	1.36	4.08	1

EH
4/19/10

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-2009
Lab Sample ID: 247897003Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
% Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.63	ug/kg	1.21	3.63	1
11104-28-2	Aroclor-1221	U	3.63	ug/kg	1.21	3.63	1
11141-16-5	Aroclor-1232	U	3.63	ug/kg	1.21	3.63	1
53469-21-9	Aroclor-1242	U	3.63	ug/kg	1.21	3.63	1
12672-29-6	Aroclor-1248	U	3.63	ug/kg	1.21	3.63	1
11097-69-1	Aroclor-1254	U	3.63	ug/kg	1.21	3.63	1
11096-82-5	Aroclor-1260	U	3.63	ug/kg	1.21	3.63	1

EH
4/19/10

Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2009

LOS ALAMOS

REQUEST NUMBER: 10-2009

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:

2478971

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7896	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7894	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7900	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7898	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7897	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7895	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7899	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7893	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8011	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8004	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8009	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8003	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8007	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8002	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8010	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8006	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8001	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8012	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8008	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8005	1	AMBER GLASS	NMED Explosives list	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

These Samples are on:
LANL Request Number: 10-2009
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	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE15-10-7893	R	2/18/2010	
		1	RE15-10-7894	R	2/18/2010	
		1	RE15-10-7895	R	2/18/2010	
		1	RE15-10-7896	R	2/18/2010	
		1	RE15-10-7897	R	2/18/2010	
		1	RE15-10-7898	R	2/18/2010	
		1	RE15-10-7899	R	2/18/2010	
		1	RE15-10-7900	R	2/18/2010	
	SW-846-8321A_MOD	1	RE15-10-7893	R	2/18/2010	

Tuesday, February 23, 2010

Page 2 of 2

REQUEST NUMBER: 10-2009

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8321A_MOD	1	RE15-10-7894	R	2/18/2010	
		1	RE15-10-7895	R	2/18/2010	
		1	RE15-10-7896	R	2/18/2010	
		1	RE15-10-7897	R	2/18/2010	
		1	RE15-10-7898	R	2/18/2010	
		1	RE15-10-7899	R	2/18/2010	
		1	RE15-10-7900	R	2/18/2010	
		1	RE15-10-8001	R	2/18/2010	
		1	RE15-10-8002	R	2/18/2010	
		1	RE15-10-8003	R	2/18/2010	
		1	RE15-10-8004	R	2/18/2010	
		1	RE15-10-8005	R	2/18/2010	
		1	RE15-10-8006	R	2/18/2010	
		1	RE15-10-8007	R	2/18/2010	
		1	RE15-10-8008	R	2/18/2010	
		1	RE15-10-8009	R	2/18/2010	
		1	RE15-10-8010	R	2/18/2010	
		1	RE15-10-8011	R	2/18/2010	
		1	RE15-10-8012	R	2/18/2010	

Final Page of REQUEST NUMBER 10-2009



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: 247897
SDG: 10-2009

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: 10-2009
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247897
SDG: 10-2009

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247897
SDG # : 10-2009**

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:

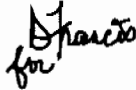
<u>Laboratory ID</u>	<u>Client ID</u>
247897001	RE15-10-7896
247897002	RE15-10-7894
247897003	RE15-10-7900
247897004	RE15-10-7898
247897005	RE15-10-7897
247897006	RE15-10-7895
247897007	RE15-10-7899
247897008	RE15-10-7893
247897009	RE15-10-8011
247897010	RE15-10-8004
247897011	RE15-10-8009
247897012	RE15-10-8003
247897013	RE15-10-8007
247897014	RE15-10-8002
247897015	RE15-10-8010
247897016	RE15-10-8006
247897017	RE15-10-8001
247897018	RE15-10-8012
247897019	RE15-10-8008
247897020	RE15-10-8005

Case Narrative

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

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

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



Valerie Davis

Project Manager

List of current GEL Certifications as of 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: 10-2009

LOS ALAMOS

REQUEST NUMBER: 10-2009

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:

247897%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7896	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7894	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7900	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7898	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7897	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7895	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7899	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7893	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8011	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8004	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8009	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8003	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8007	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8002	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8010	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8006	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8001	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8012	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8008	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8005	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

Printed Name

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Signature

Printed Name

Signature

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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

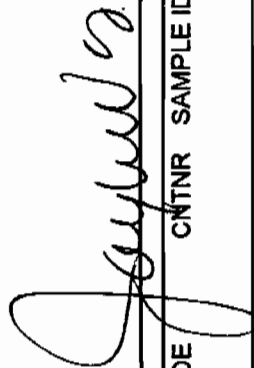
TURNAROUND/REPORT DUE: 3/25/2010

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: 10-2009
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Page 1 of 2
REQUEST NUMBER: 10-2009

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7893	R	2/18/2010	
		1	RE15-10-7894	R	2/18/2010	
		1	RE15-10-7895	R	2/18/2010	
		1	RE15-10-7896	R	2/18/2010	
		1	RE15-10-7897	R	2/18/2010	
		1	RE15-10-7898	R	2/18/2010	
		1	RE15-10-7899	R	2/18/2010	
		1	RE15-10-7900	R	2/18/2010	
	SW-846:8321A_MOD	1	RE15-10-7893	R	2/18/2010	

Tuesday, February 23, 2010

Page 2 of 2
REQUEST NUMBER: 10-2009

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-7894	R	2/18/2010	
		1	RE15-10-7895	R	2/18/2010	
		1	RE15-10-7896	R	2/18/2010	
		1	RE15-10-7897	R	2/18/2010	
		1	RE15-10-7898	R	2/18/2010	
		1	RE15-10-7899	R	2/18/2010	
		1	RE15-10-7900	R	2/18/2010	
		1	RE15-10-8001	R	2/18/2010	
		1	RE15-10-8002	R	2/18/2010	
		1	RE15-10-8003	R	2/18/2010	
		1	RE15-10-8004	R	2/18/2010	
		1	RE15-10-8005	R	2/18/2010	
		1	RE15-10-8006	R	2/18/2010	
		1	RE15-10-8007	R	2/18/2010	
		1	RE15-10-8008	R	2/18/2010	
		1	RE15-10-8009	R	2/18/2010	
		1	RE15-10-8010	R	2/18/2010	
		1	RE15-10-8011	R	2/18/2010	
		1	RE15-10-8012	R	2/18/2010	

Final Page of REQUEST NUMBER 10-2009



SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCO/Work Order: 10-2009	
Received By: Mercedes Simmons		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 $0 \leq 6$ 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: <u>No time on Chain of Custody.</u>
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) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 58.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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

BILL SENDER

1°
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-8171
REF: 68010AMR3A05529E00

1°
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-8171
REF: 68010AMR3A05529E00

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Matr-N 7209 7850 1748 0201

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 58.0 LB MAN
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BILL SENDER

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 68010AMR3A05529E00

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GENERAL ENGINEERING LAB
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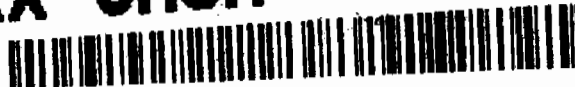
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Matr-N 7209 7850 1780 0201

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PRIORITY OVERNIGHT

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SC-US
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ORIGIN ID: SAFA (505) 685-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

ORIGIN ID: SAFA (505) 685-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

3°
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05158YDO

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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REF: 68010AMR3A05529E00

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MPSH 7209 7850 1735
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TRKH 7209 7850 1746
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LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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JOYLENE VALDEZ
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TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

CAD: 0014176/CAFE2450

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ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 57.0 LB MAN
CRD: 0014176/CAPE2450
BILL SENDER

ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 56.0 LB MAN
CRD: 0014176/CAPE2450
BILL SENDER

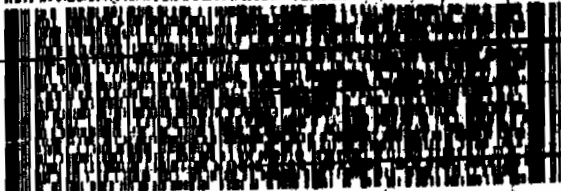
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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
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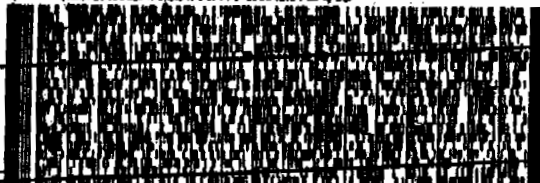
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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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WED - 24FEB A1
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ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 49.0 LB MAN
CRD: 0014176/CAPE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

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

LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2009**

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: 957700

Prep Batch Number: 957690

Sample Analysis

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

Sample ID	Client ID
247897001	RE15-10-7896
247897002	RE15-10-7894
247897003	RE15-10-7900
247897004	RE15-10-7898
247897005	RE15-10-7897
247897006	RE15-10-7895
247897007	RE15-10-7899
247897008	RE15-10-7893
247897009	RE15-10-8011
247897010	RE15-10-8004
247897011	RE15-10-8009
247897012	RE15-10-8003
247897013	RE15-10-8007
247897014	RE15-10-8002
247897015	RE15-10-8010
247897016	RE15-10-8006
247897017	RE15-10-8001
247897018	RE15-10-8012
247897019	RE15-10-8008
247897020	RE15-10-8005
1202053627	Method Blank (MB)
1202053628	Laboratory Control Sample (LCS)
1202053629	247897001(RE15-10-7896) Matrix Spike (MS)
1202053630	247897001(RE15-10-7896) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

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

Primary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS recovered Tetryl at 50.0% with recovery limits of 51-112%. While Tetryl did not meet in-house recovery limits, it did meet the DOD marginal exceedance limits of 41-122%. The data are reported. Please see data exception report 816014.

QC Sample Designation

Sample 247897001 (RE15-10-7896) 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 recovered Tetryl at 25.5%. The recovery limits are 36-124%. While the MS met acceptance limits, the spike recovery was biased low. Since similar recoveries were observed, the noted exception is attributed to sample matrix interference. The LCS met the DOD marginal exceedance limits. The data are reported. Please see data exception report 816014.

MS/MSD Relative Percent Difference (RPD) Statement

The MS/MSD RPD for Tetryl was 42.8%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 816014.

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

Samples 247897009(RE15-10-8011), 247897010(RE15-10-8004) and 247897011(RE15-10-8009) were re-analyzed due to an injector malfunction. The re-analysis failed ISTD acceptance criteria. The samples were further re-analyzed and passed acceptance criteria. The last re-analysis is reported.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS recovered 2,6-Diamino-4-nitrotoluene at 126% with recovery limits of 64-122%. While the LCS exhibited a high bias, both the MS and MSD met acceptance limits for 2,6-Diamino-4-nitrotoluene. 2,6-Diamino-4-nitrotoluene was not detected in the associated samples. The data are reported. Please see data exception report 816014.

QC Sample Designation

Sample 247897001 (RE15-10-7896) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Internal Standard (ISTD) Acceptance

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

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

Sample Re-extraction/Re-analysis

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

Miscellaneous Information

Data Exception (DER) Documentation

Data exception report 816014 was generated for this SDG.

The LCS recovered Tetryl at 50.0% with recovery limits of 51-112%. The LCS recovered 2,6-Diamino-4-nitrotoluene at 126% with recovery limits of 64-122%. While Tetryl did not meet in-house recovery limits, it did meet the DOD marginal exceedance limits of 41-122%. While the LCS exhibited a high bias, both the MS and MSD met acceptance limits for 2,6-Diamino-4-nitrotoluene. 2,6-Diamino-4-nitrotoluene was not detected in the associated samples. The data are reported.

The MSD recovered Tetryl at 25.5%. The recovery limits are 36-124%. While the MS met acceptance limits, the spike recovery was biased low. Since similar recoveries were observed, the noted exception is attributed to sample matrix interference. The LCS met the DOD marginal exceedance limits. The data are reported.

The MS/MSD RPD for Tetryl was 42.8%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. 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: Hebert Mauer Date: 04/13/10

SAMPLE DATA SUMMARY

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897001

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408015a

Date Analyzed: 09-APR-10 04:25

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897001

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220063.wiff

Date Analyzed: 23-MAR-10 07:27

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: RE15-10-7894

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897002

Sample Amount 2

Moisture: 26.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408018a

Date Analyzed: 09-APR-10 05:54

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7894

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897002

Sample Amount 2

Moisture: 26.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220066.wiff

Date Analyzed: 23-MAR-10 08:14

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7900

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897003

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408019a

Date Analyzed: 09-APR-10 06:23

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7900

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897003

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220067.wiff

Date Analyzed: 23-MAR-10 08:30

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: RE15-10-7898

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897004

Sample Amount 2

Moisture: 15.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408020a

Date Analyzed: 09-APR-10 06:52

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7898

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897004

Sample Amount 2

Moisture: 15.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220068.wiff

Date Analyzed: 23-MAR-10 08:45

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7897

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897005

Sample Amount 2

Moisture: 16.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408021a

Date Analyzed: 09-APR-10 07:22

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7897

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897005

Sample Amount 2

Moisture: 16.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220069.wiff

Date Analyzed: 23-MAR-10 09:01

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7895

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897006

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408022a

Date Analyzed: 09-APR-10 07:51

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7895

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897006

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220070.wiff

Date Analyzed: 23-MAR-10 09:17

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7899

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897007

Sample Amount 2

Moisture: 18.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408026a

Date Analyzed: 09-APR-10 09:49

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7899

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897007

Sample Amount 2

Moisture: 18.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220074.wiff

Date Analyzed: 23-MAR-10 10:20

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: RE15-10-7893

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897008

Sample Amount 2

Moisture: 28.0

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408027a

Date Analyzed: 09-APR-10 10:19

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7893

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897008

Sample Amount 2

Moisture: 28.0

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220075.wiff

Date Analyzed: 23-MAR-10 10:35

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8011

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408082a

Date Analyzed: 10-APR-10 13:25

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8011

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220076.wiff

Date Analyzed: 23-MAR-10 10:51

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: RE15-10-8004

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408083a

Date Analyzed: 10-APR-10 13:54

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8004

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220077.wiff

Date Analyzed: 23-MAR-10 11:07

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8009

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408084a

Date Analyzed: 10-APR-10 14:24

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8009

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220078.wiff

Date Analyzed: 23-MAR-10 11:23

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: RE15-10-8003

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408031a

Date Analyzed: 09-APR-10 12:17

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8003

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220079.wiff

Date Analyzed: 23-MAR-10 11:38

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8007

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408032a

Date Analyzed: 09-APR-10 12:46

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8007

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220080.wiff

Date Analyzed: 23-MAR-10 11:54

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8002

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408033a

Date Analyzed: 09-APR-10 13:16

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8002

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220081.wiff

Date Analyzed: 23-MAR-10 12:10

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8010

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408034a

Date Analyzed: 09-APR-10 13:45

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8010

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220082.wiff

Date Analyzed: 23-MAR-10 12:26

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8006

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408035a

Date Analyzed: 09-APR-10 14:15

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8006

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220083.wiff

Date Analyzed: 23-MAR-10 12:42

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8001

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408039a

Date Analyzed: 09-APR-10 16:13

Units: ug/kg

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

*Concentration =

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: RE15-10-8001

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220087.wiff

Date Analyzed: 23-MAR-10 13:45

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8012

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408040a

Date Analyzed: 09-APR-10 16:46

Units: ug/kg

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

*Concentration =

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: RE15-10-8012

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220088.wiff

Date Analyzed: 23-MAR-10 14:02

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8008

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408041a

Date Analyzed: 09-APR-10 17:15

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8008

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220089.wiff

Date Analyzed: 23-MAR-10 14:17

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8005

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897020

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408042a

Date Analyzed: 09-APR-10 17:45

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8005

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897020

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220090.wiff

Date Analyzed: 23-MAR-10 14:33

Units: ug/kg

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

*Concentration =

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

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247897001	RE15-10-7896	103	70 - 144	
247897001	RE15-10-7896	122	70 - 144	
247897002	RE15-10-7894	102	70 - 144	
247897002	RE15-10-7894	120	70 - 144	
247897003	RE15-10-7900	101	70 - 144	
247897003	RE15-10-7900	121	70 - 144	
247897004	RE15-10-7898	101	70 - 144	
247897004	RE15-10-7898	118	70 - 144	
247897005	RE15-10-7897	104	70 - 144	
247897005	RE15-10-7897	125	70 - 144	
247897006	RE15-10-7895	106	70 - 144	
247897006	RE15-10-7895	128	70 - 144	
247897007	RE15-10-7899	104	70 - 144	
247897007	RE15-10-7899	112	70 - 144	
247897008	RE15-10-7893	97.1	70 - 144	
247897008	RE15-10-7893	118	70 - 144	
247897009	RE15-10-8011	110	70 - 144	
247897009	RE15-10-8011	126	70 - 144	
247897010	RE15-10-8004	108	70 - 144	
247897010	RE15-10-8004	115	70 - 144	
247897011	RE15-10-8009	109	70 - 144	
247897011	RE15-10-8009	118	70 - 144	
247897012	RE15-10-8003	102	70 - 144	
247897012	RE15-10-8003	119	70 - 144	
247897013	RE15-10-8007	105	70 - 144	
247897013	RE15-10-8007	113	70 - 144	
247897014	RE15-10-8002	108	70 - 144	
247897014	RE15-10-8002	114	70 - 144	
247897015	RE15-10-8010	105	70 - 144	
247897015	RE15-10-8010	111	70 - 144	
247897016	RE15-10-8006	100	70 - 144	
247897016	RE15-10-8006	109	70 - 144	
247897017	RE15-10-8001	114	70 - 144	
247897017	RE15-10-8001	105	70 - 144	
247897018	RE15-10-8012	107	70 - 144	
247897018	RE15-10-8012	118	70 - 144	
247897019	RE15-10-8008	103	70 - 144	

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247897019	RE15-10-8008	108	70 - 144	
247897020	RE15-10-8005	106	70 - 144	
247897020	RE15-10-8005	117	70 - 144	
1202053627	MB for batch 957690	100	70 - 144	
1202053627	MB for batch 957690	117	70 - 144	
1202053628	LCS for batch 957690	121	70 - 144	
1202053628	LCS for batch 957690	113	70 - 144	
1202053629	RE15-10-7896(247897001MS)	106	70 - 144	
1202053629	RE15-10-7896(247897001MS)	115	70 - 144	
1202053630	RE15-10-7896(247897001MSD)	105	70 - 144	
1202053630	RE15-10-7896(247897001MSD)	114	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) 10-2009

Extract Batch Code: 957690

Date Extracted: 01-MAR-10

GEL LCS ID: 1202053628

GEL LCSDUP ID:

Analysis Date/Time: 09-APR-10 03:56

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	3760	75.1					69 - 126
2,4,6-Trinitrotoluene	5000	5630	113					73 - 149
2,4-Dinitrotoluene	5000	4740	94.7					87 - 137
2,6-Dinitrotoluene	5000	4800	96					89 - 120
2-Amino-4,6-dinitrotoluene	5000	4890	97.8					90 - 130
4-Amino-2,6-dinitrotoluene	5000	5460	109					84 - 130
HMX	5000	3730	74.5					58 - 138
Nitrobenzene	5000	4350	87					71 - 122
PETN	5000	4860	97.2					64 - 137
RDX	5000	4170	83.4					81 - 137
Tetryl	5000	2500	50 *					51 - 112
m-Dinitrobenzene	5000	4710	94.2					83 - 122
m-Nitrotoluene	5000	4430	88.7					73 - 118
o-Nitrotoluene	5000	4580	91.5					72 - 119
p-Nitrotoluene	5000	4760	95.2					67 - 131

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

* Values outside of QC limits

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-2009

Extract Batch Code: 957690

Date Extracted: 01-MAR-10

GEL LCS ID: 1202053628

GEL LCSDUP ID:

Analysis Date/Time: 23-MAR-10 07:11

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	5530	111					52 - 114
2,6-Diamino-4-nitrotoluene	5000	6290	126 *					64 - 122
3,5-Dinitroaniline	5000	5400	108					70 - 127
tris(o-cresyl) phosphate	5000	5040	101					84 - 119
TATB	5000	6070	121					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: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Extract Batch Code: 957690

Date Extracted: 01-MAR-10

GEL Spike ID: 1202053629

GEL SpikeDup ID: 1202053630

Analysis Date/Time: 09-APR-10 04:55

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
o-Nitrotoluene	5000	0	4530	90.5	4440	88.9	1.85	30	69 – 123
2-Amino-4,6-dinitrotoluene	5000	0	4960	99.3	5160	103	3.92	30	85 – 137
HMX	5000	0	4760	95.2	4700	93.9	1.38	30	51 – 144
PETN	5000	0	4870	97.4	4620	92.3	5.38	30	60 – 140
m-Nitrotoluene	5000	0	4140	82.8	4430	88.5	6.64	30	70 – 120
m-Dinitrobenzene	5000	0	4940	98.8	4870	97.3	1.44	30	85 – 118
Tetryl	5000	0	1970	39.4	1270	25.5 *	42.8 *	30	36 – 124
RDX	5000	0	4960	99.1	5730	115	14.5	30	59 – 152
Nitrobenzene	5000	0	4740	94.8	4900	98	3.29	30	70 – 122
4-Amino-2,6-dinitrotoluene	5000	0	4880	97.7	4950	99	1.37	30	72 – 143
2,6-Dinitrotoluene	5000	0	4900	98.1	4920	98.4	.35	30	90 – 118
1,3,5-Trinitrobenzene	5000	0	4300	86	4070	81.4	5.41	30	50 – 140
2,4,6-Trinitrotoluene	5000	0	4970	99.4	5040	101	1.31	30	76 – 144
2,4-Dinitrotoluene	5000	0	4810	96.2	4840	96.8	.524	30	86 – 135
p-Nitrotoluene	5000	0	4760	95.3	4620	92.4	3.09	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: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Extract Batch Code: 957690

Date Extracted: 01-MAR-10

GEL Spike ID: 1202053629

GEL SpikeDup ID: 1202053630

Analysis Date/Time: 23-MAR-10 07:42

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	5310	106	5340	107	.563	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	5870	117	5780	116	1.55	30	55 - 130
3,5-Dinitroaniline	5000	0	5380	108	5440	109	1.11	30	73 - 129
TATB	5000	0	5080	102	5710	114	11.7	30	29 - 155
tris(o-cresyl) phosphate	5000	59	5090	101	5050	99.8	.789	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): 10-2009

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Date: 08-Apr-2010

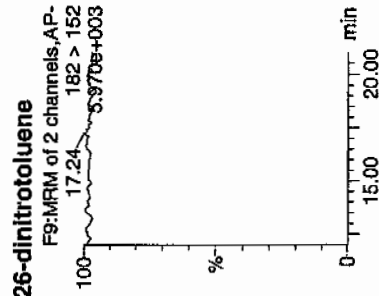
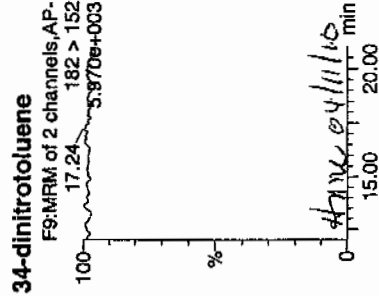
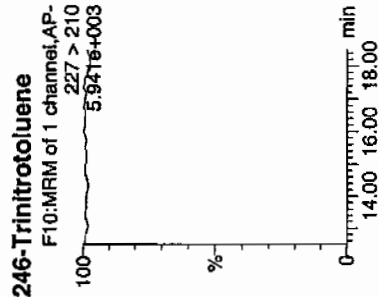
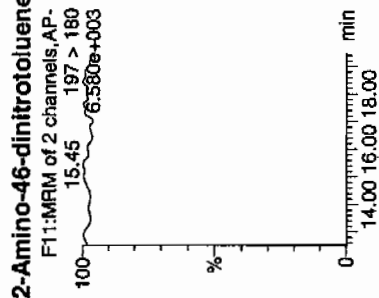
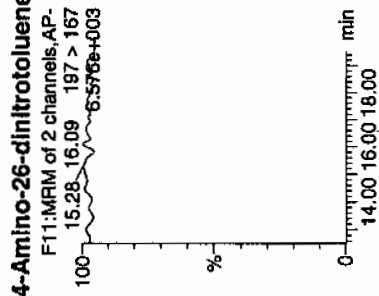
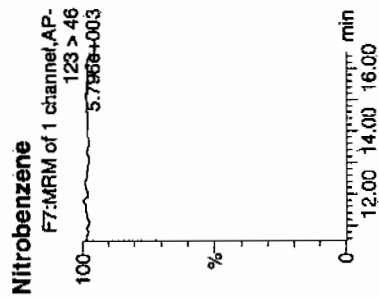
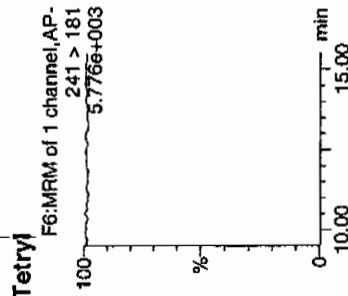
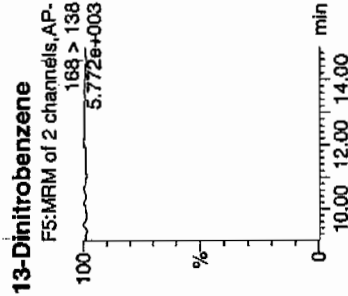
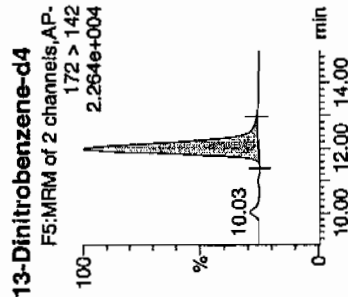
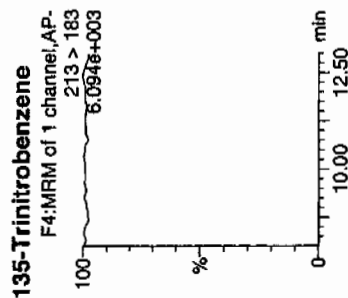
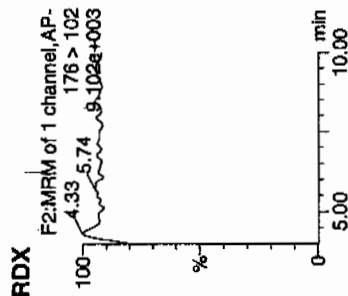
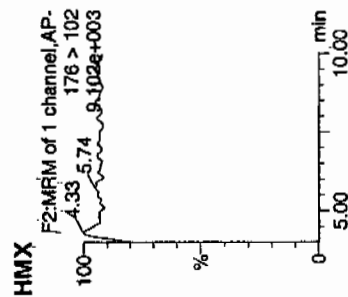
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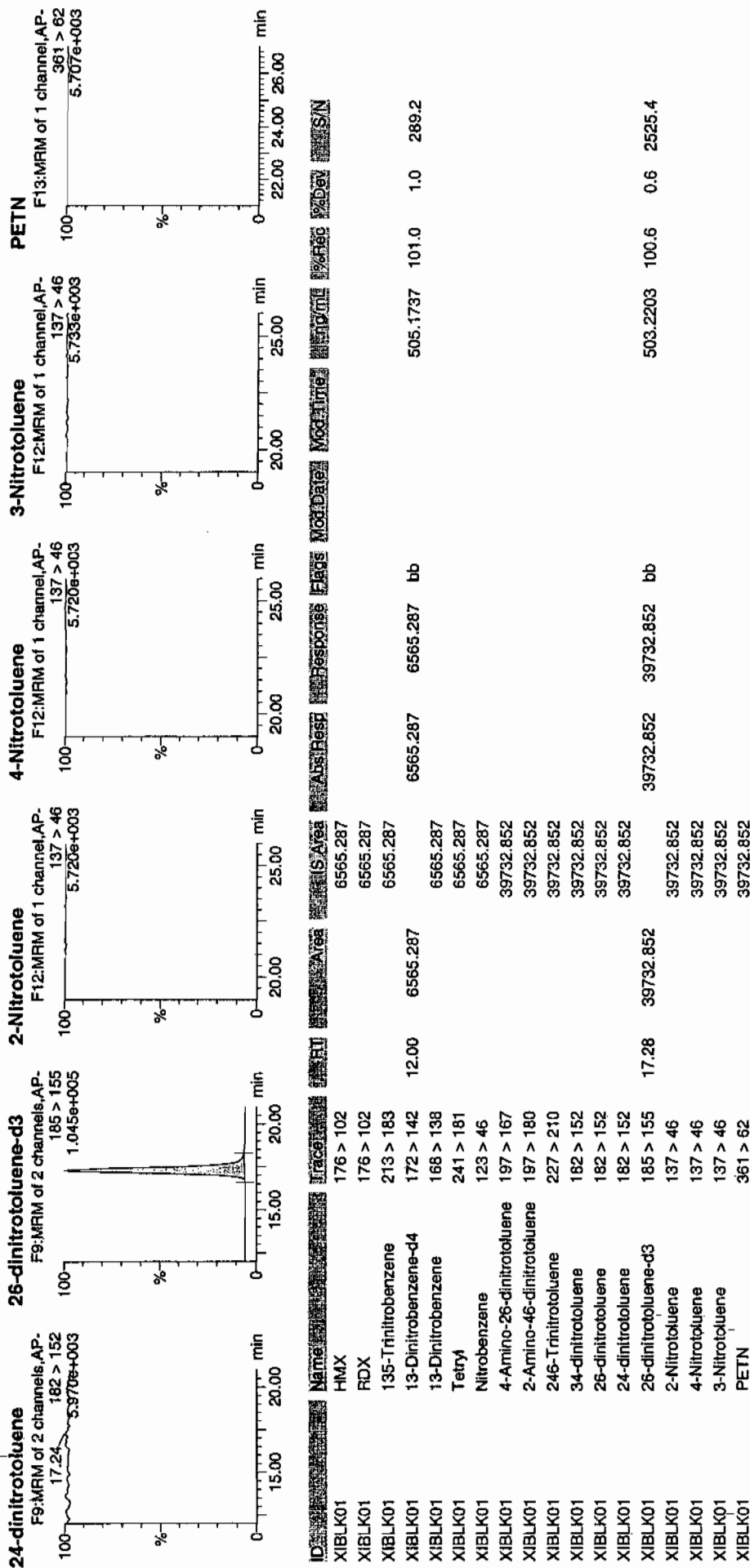
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Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA.qtd, Time: Fri Apr 09 10:54:52 2010

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Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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)
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
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

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Date: 08-Apr-2010

Time: 22:02:20

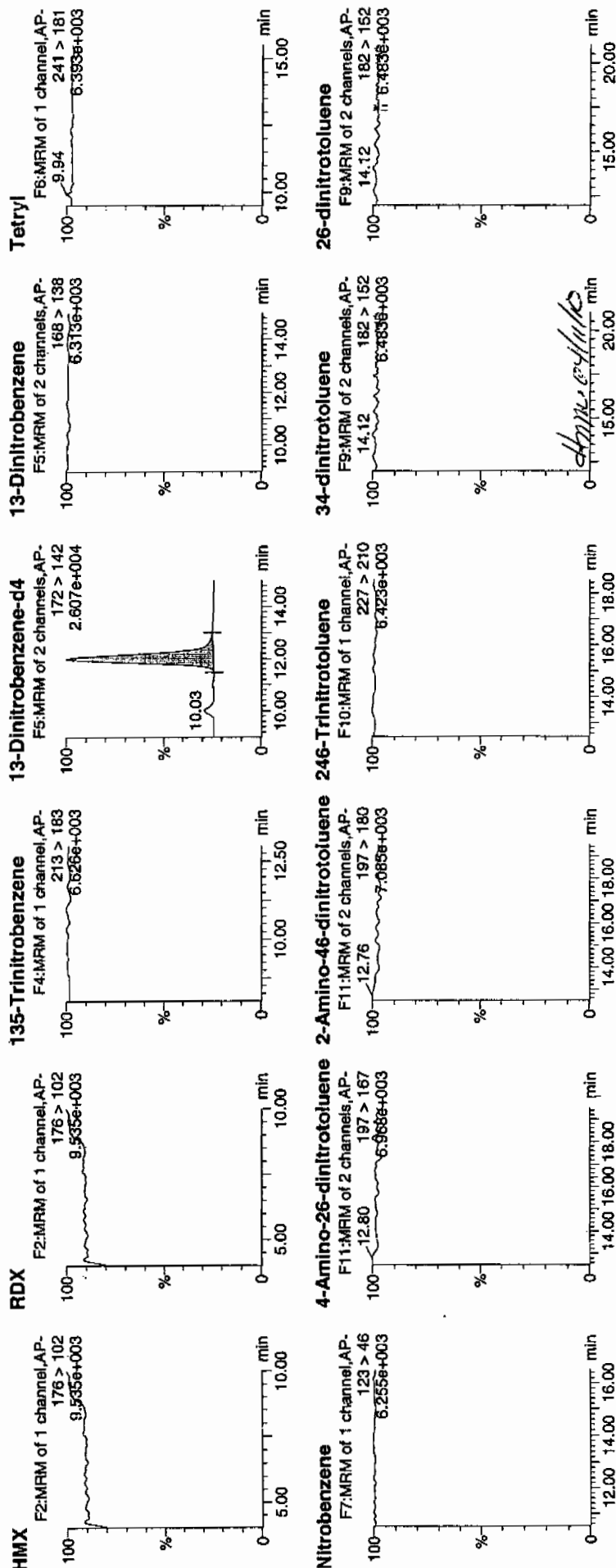
ID: XIBLK01

Vial: 1:1,A

11/17
4/10/10

Page 74 of 703

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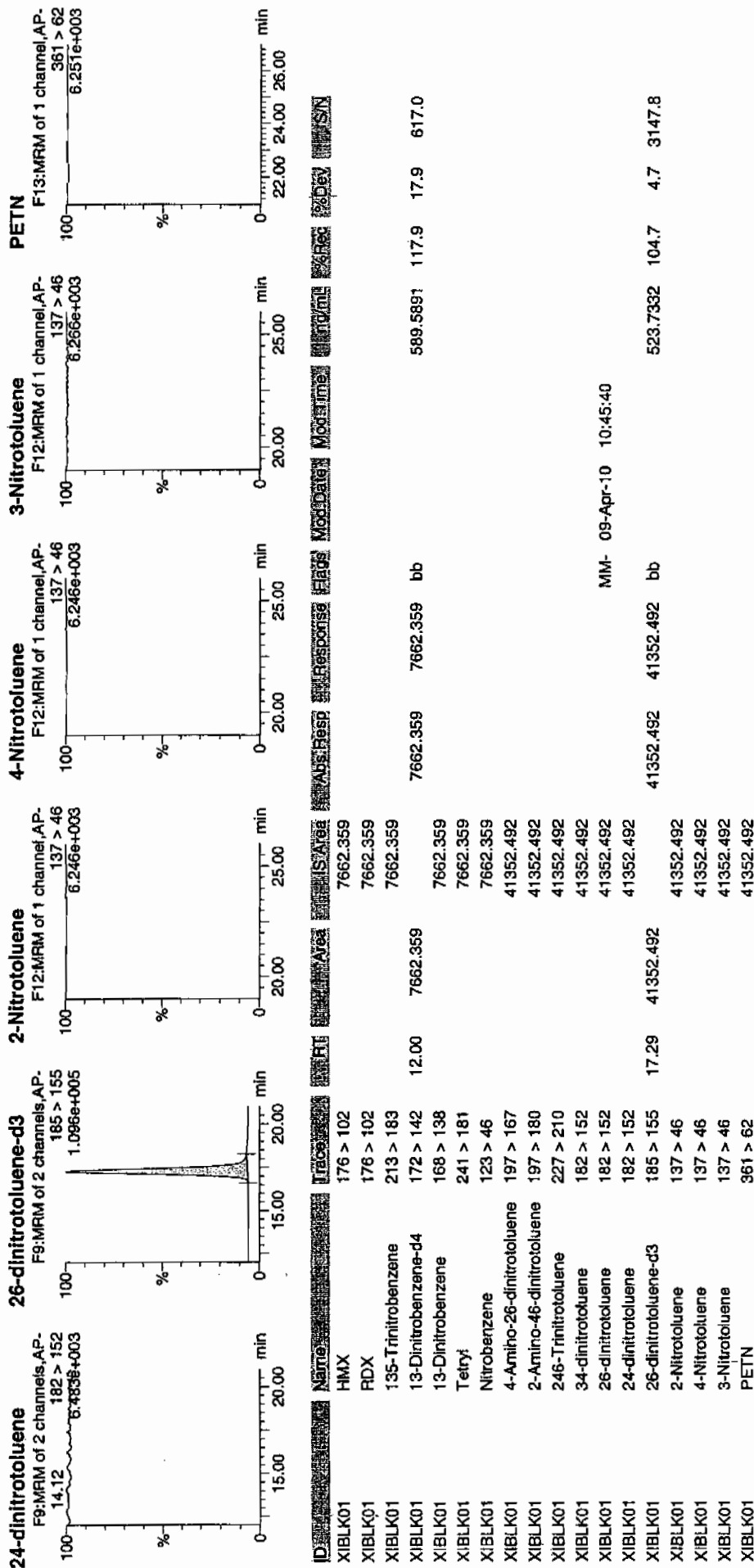


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 4 of 51

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



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-MAR-10 15:12

GEL Data File: EXS03220001.wiff

Instrument ID: LCMSMS

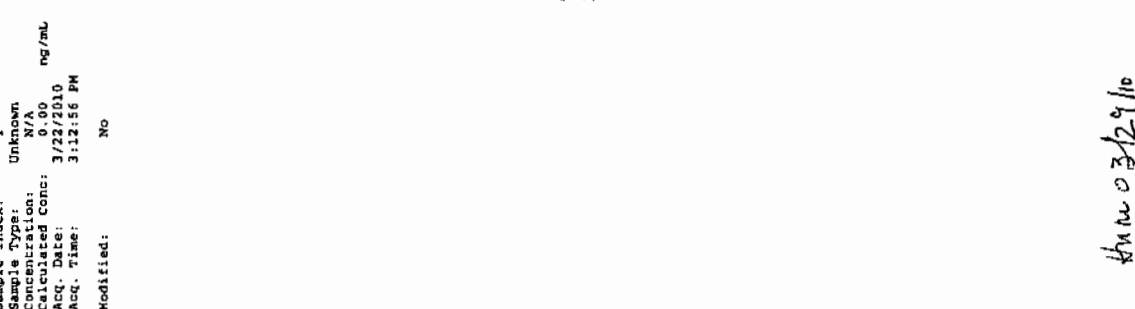
Column: Phenomenex Ultracarb 5u ODS(20)

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: '1111ER' File: 'EX503220001.wiff'
Peak Name: '35-Dinitroaniline' Mass(es): '182.046.0 amu'
Comment: 'LCMS-EXP_B' Annotation: ''
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:12:56 PM
Modified: No

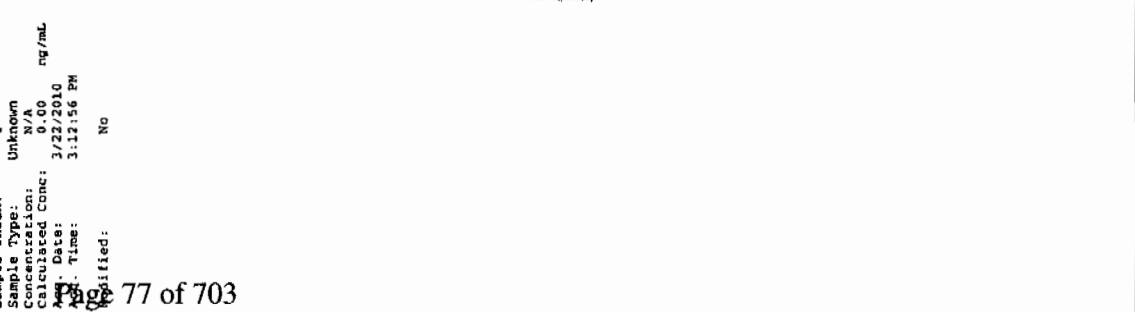
Intensity, cps



Can 3/27/10

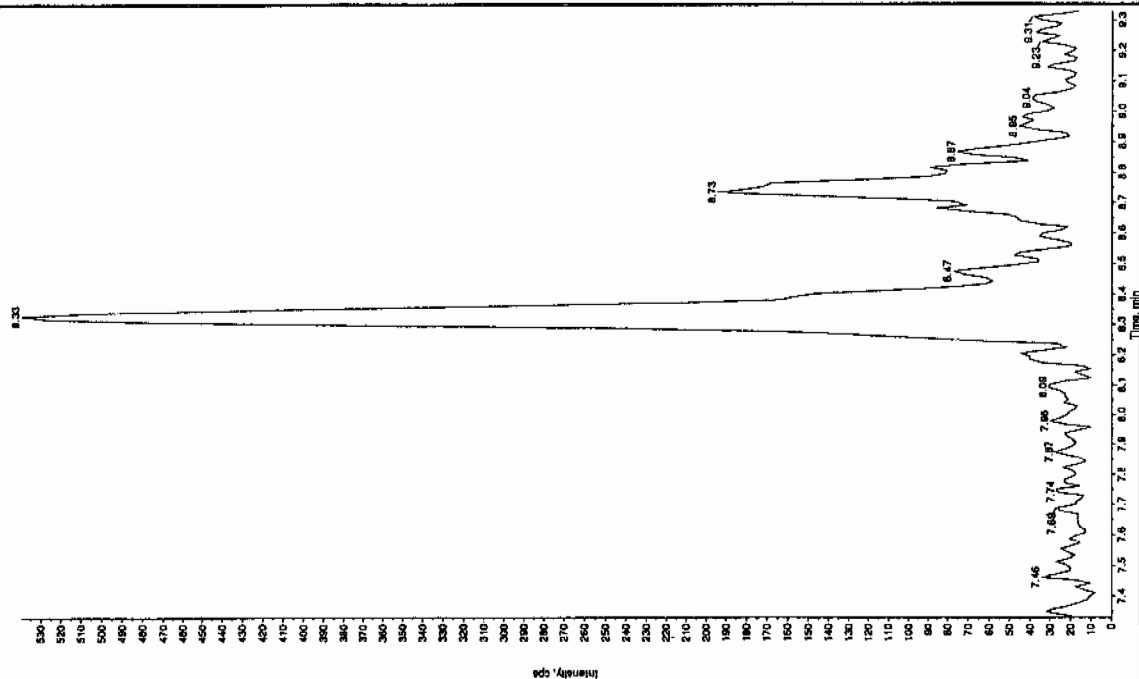
Sample Name: 'XBLK01' Sample ID: '1111ER' File: 'EX503220001.wiff'
Peak Name: 'TAIB' Mass(es): '257.2204.9 amu'
Comment: 'LCMS-EXP_B' Annotation: ''
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/22/2010
Acq. Time: 3:12:56 PM
Modified: No

Intensity, cps



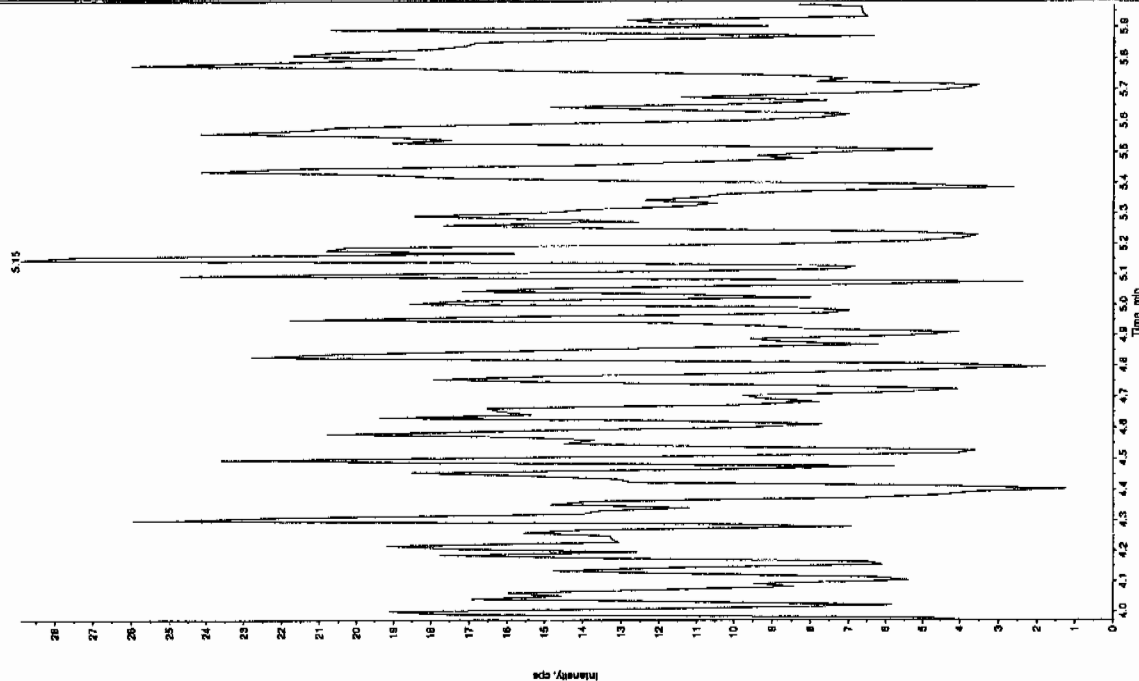
Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03220001.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



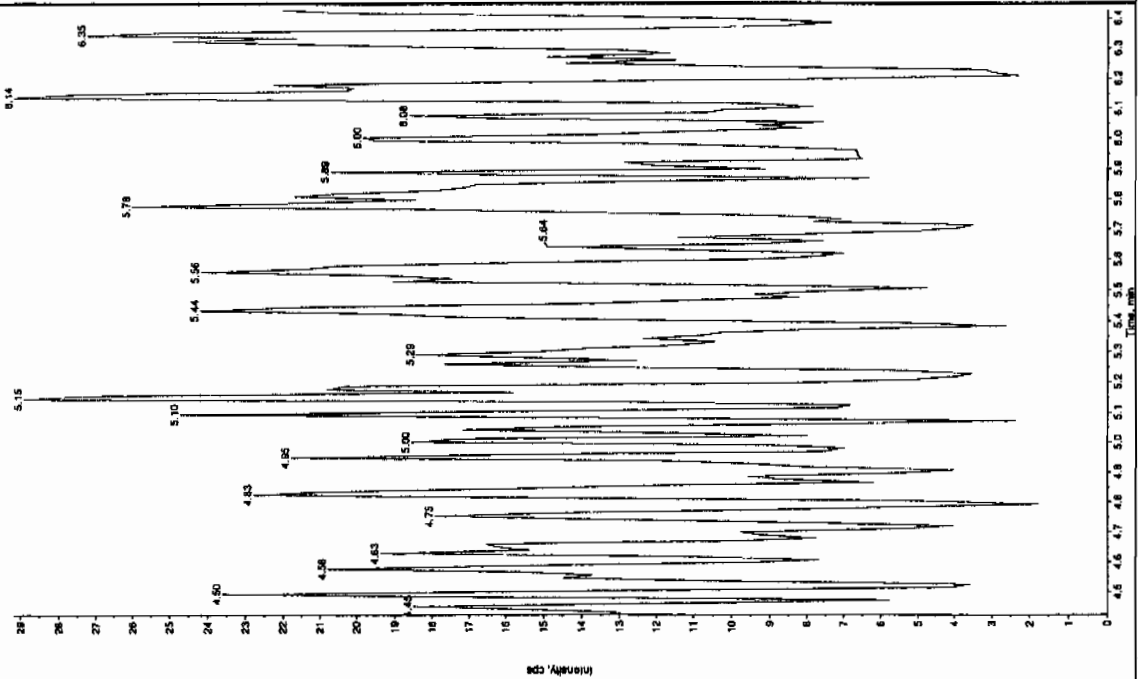
Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03220001.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



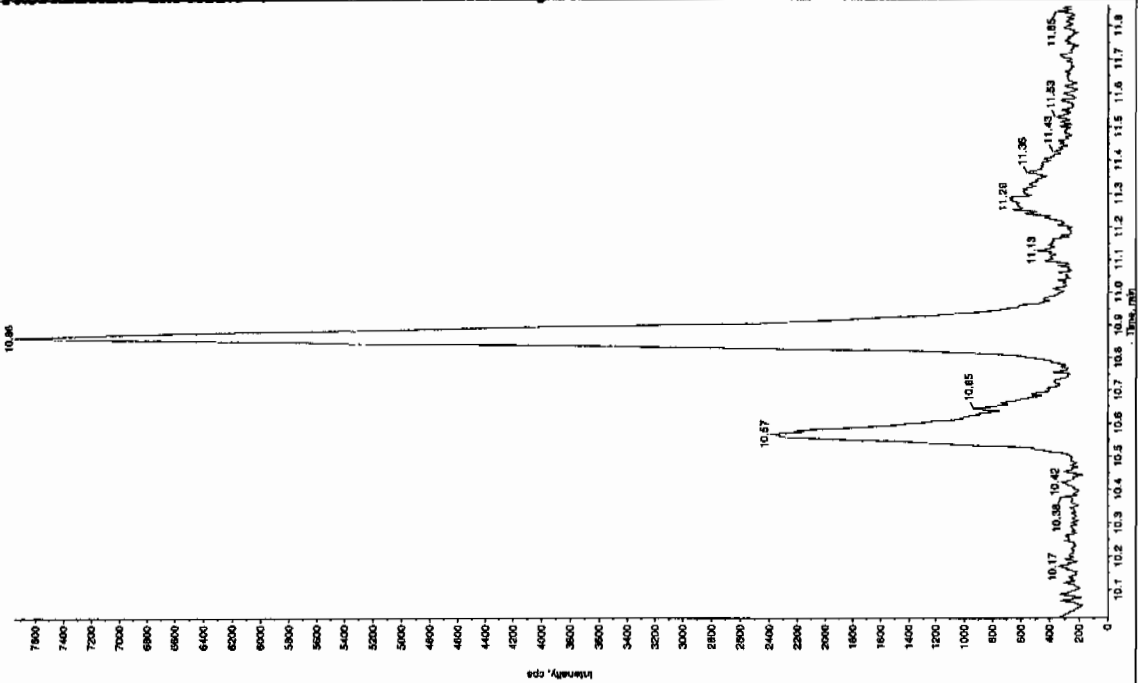
Sample Name: "XBLK01" Sample ID: "11LER" File: "EX030220001.wif"
 Peak Name: "24-Diamino-6-nitrobenzene" Mass(es): "165.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 3:12:55 PM
 Modified: No



Sample Name: "XBLK01" Sample ID: "11LER" File: "EX030220001.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "389.1/391.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 22-MAR-10 15:28

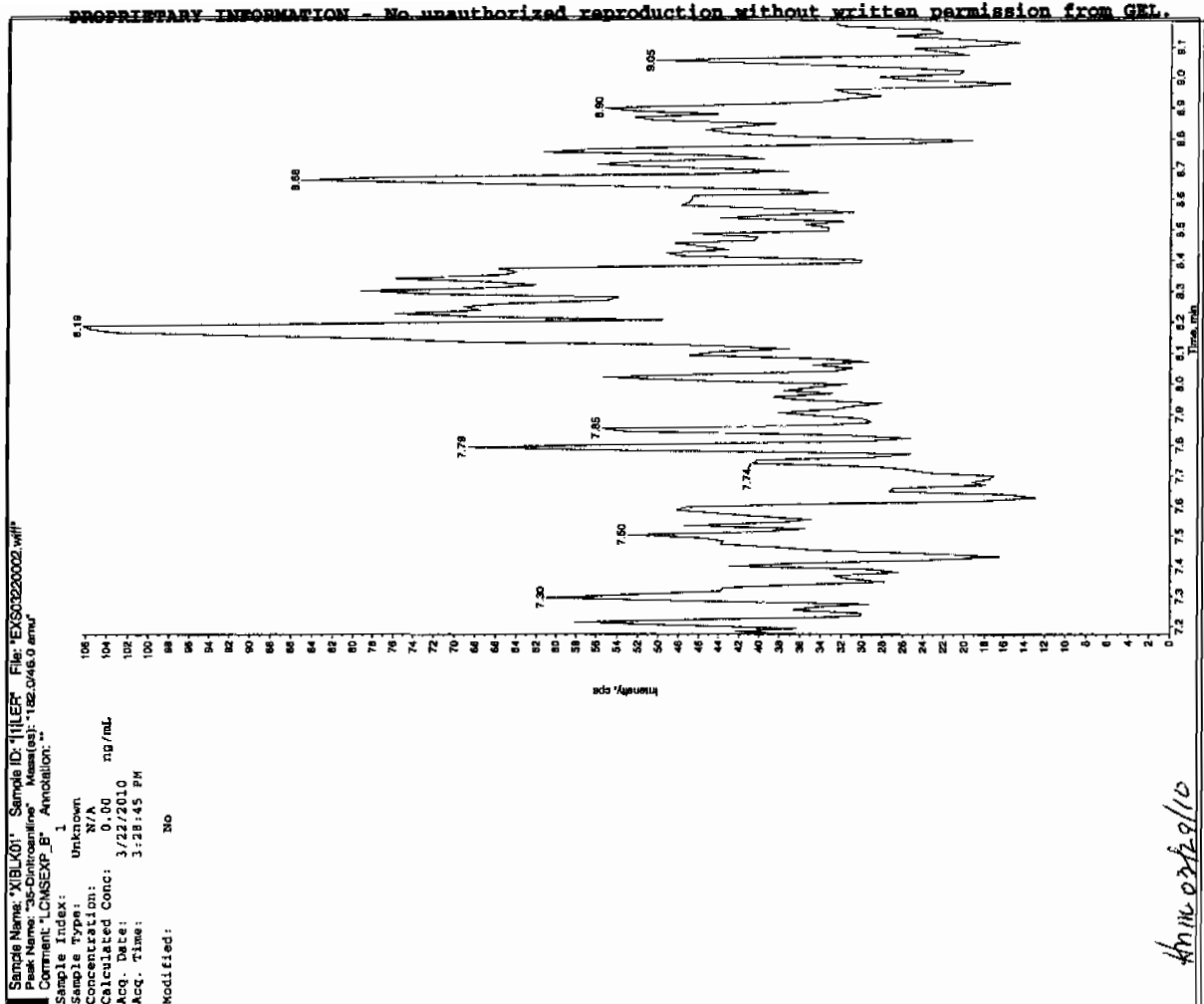
GEL Data File: EXS03220002.wiff

Instrument ID: LCMSMS

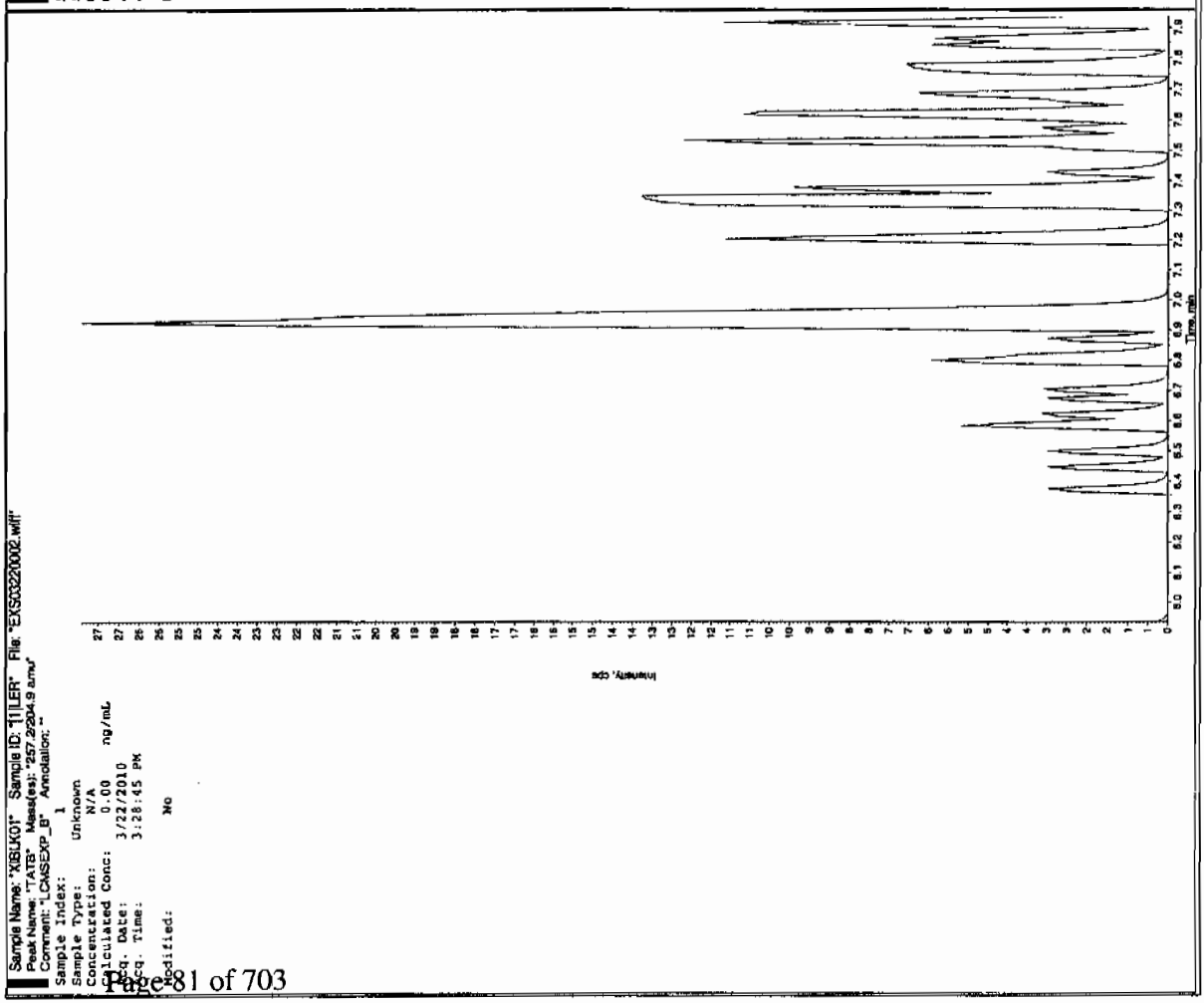
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Diamino-4-nitrotoluene	0	0
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

Ken 3/27/10



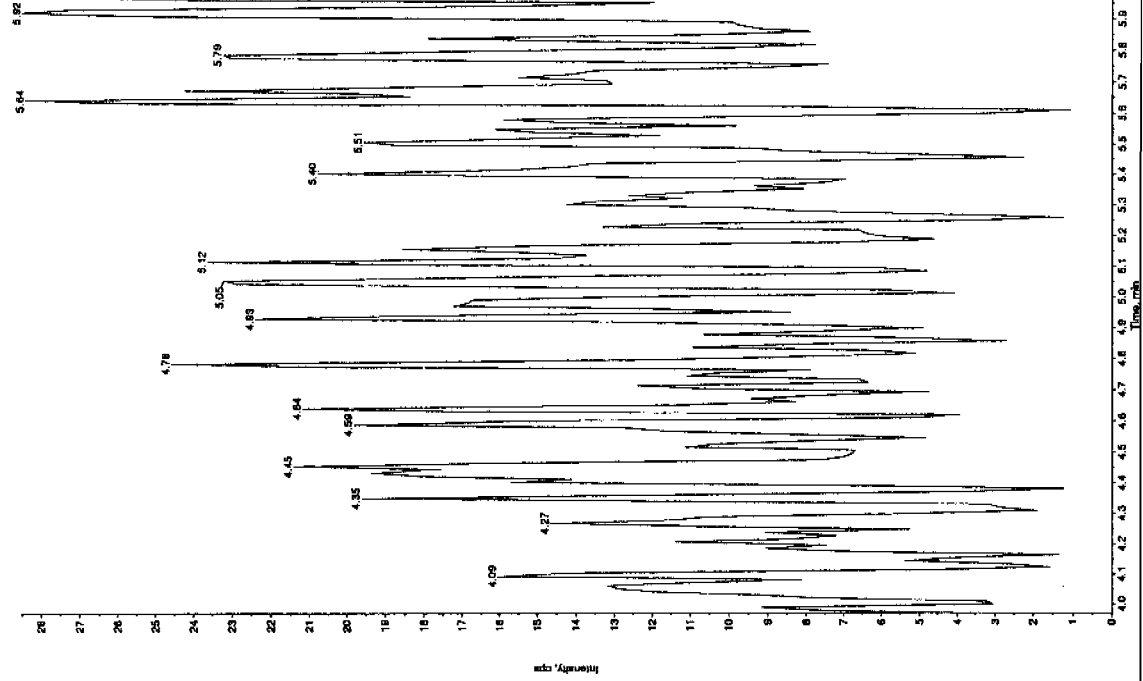
4/14/03/29/10



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

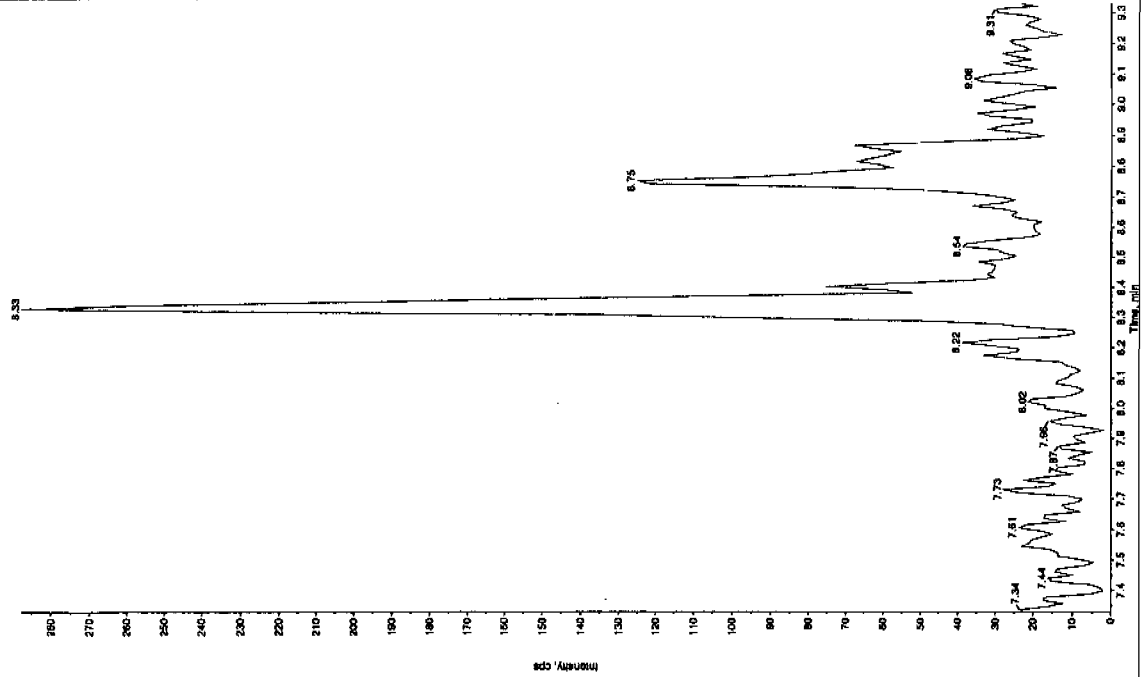
Sample Name: "XIBLK01" Sample ID: "11111" File: "EXS03220002.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "156.048.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



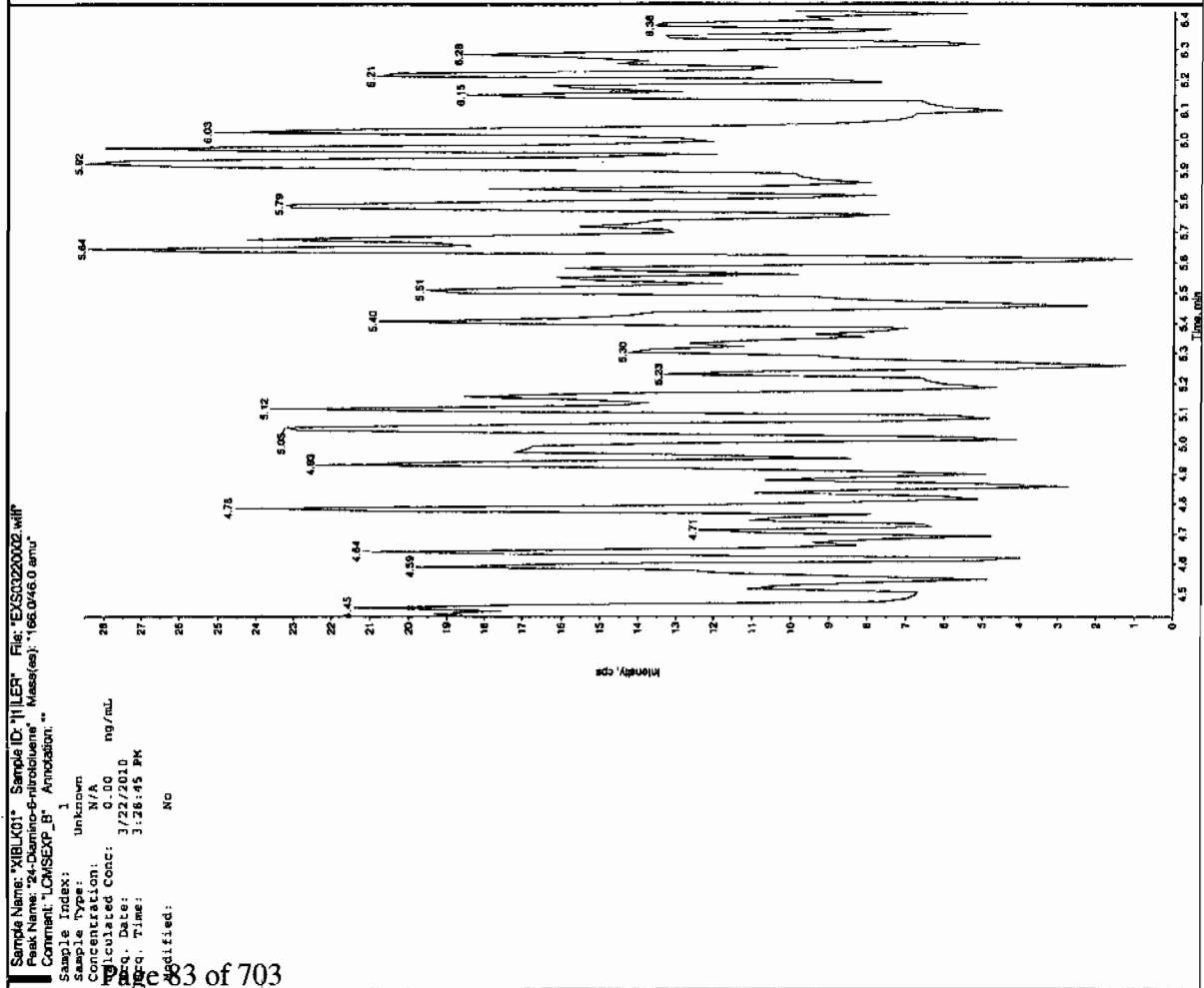
Sample Name: "XIBLK01" Sample ID: "11111" File: "EXS03220002.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.07151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XIBLX01" Sample ID: "111ER" File: "EX30320002.wif"
Peak Name: "tris(cresyl) phosphate" Mass(es): "388.1/91.0 amu"
Comment: "LOWSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A ng/mL
Calculated Conc: 3/22/2010
Acq. Date: 3/28/15 PM
Acq. Time: 3:28:45 PM
Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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)
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
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	582.512
2,4,6-Trinitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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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

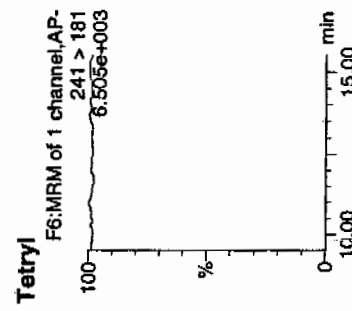
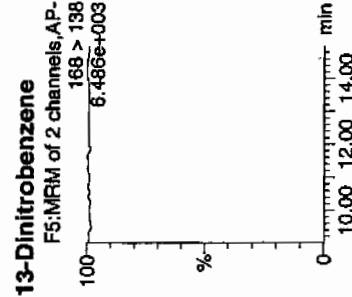
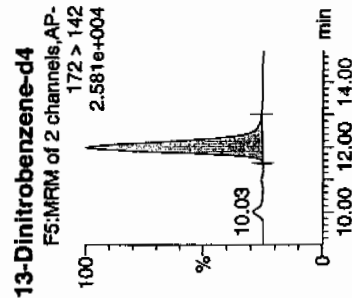
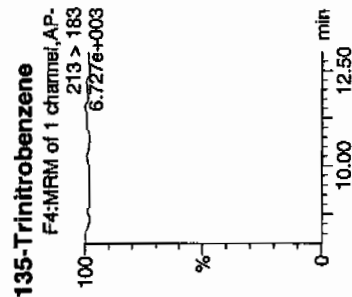
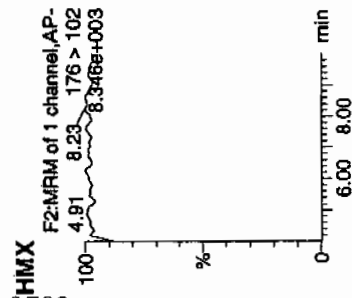
ID: XIBLK02

Vial: 1:1,A

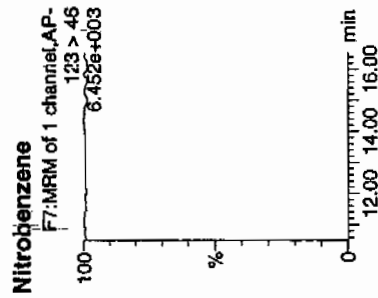
WAT
4/10/10

85 of 703

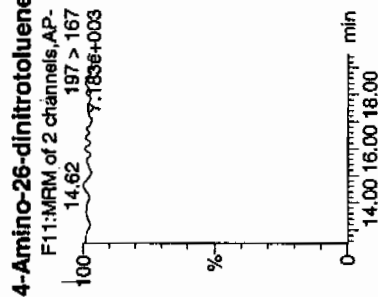
RDX



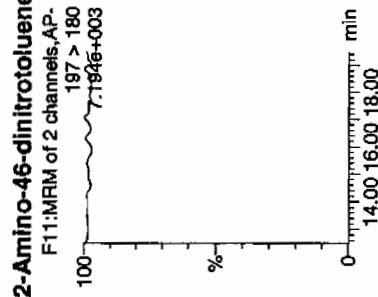
Nitrobenzene



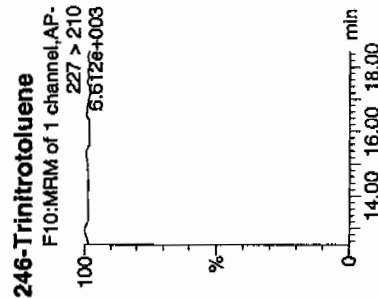
4-Amino-26-dinitrotoluene



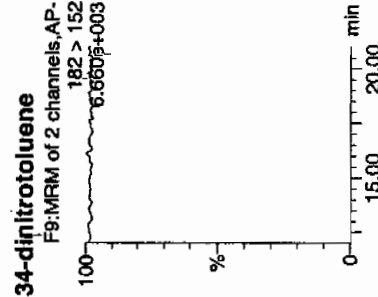
2-Amino-46-dinitrotoluene



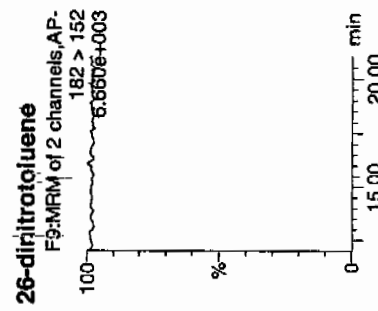
246-Trinitrotoluene



34-dinitrotoluene



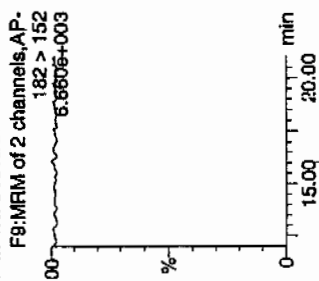
26-dinitrotoluene



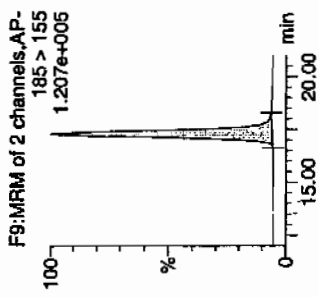
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4/11/10

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

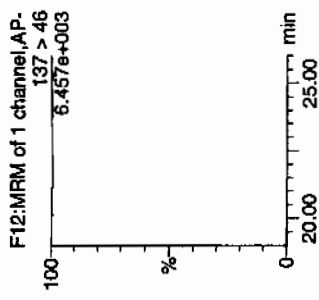
24-dinitrotoluène



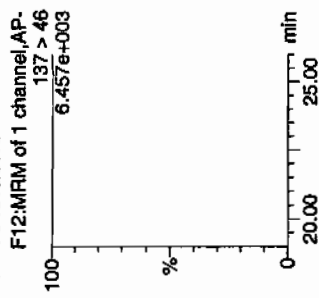
26-dinitrotoluene-d3



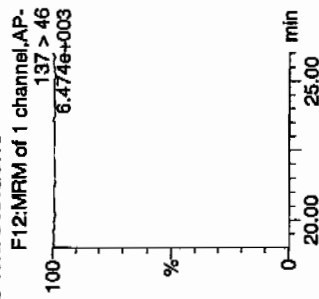
2-Nitrotoluene



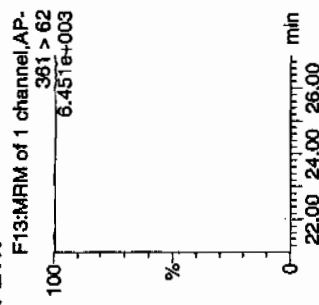
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S Area	Abs Heat	Response	Flag	Mot Date	Mod Time	%Conf	%Rec	%Dev	PASS/N
XIBLK02	HMX	176 > 102			7570.382									
XIBLK02	RDX	176 > 102			7570.382									
XIBLK02	135-Trinitrobenzene	213 > 183			7570.382									
XIBLK02	13-Dinitrobenzene-d4	172 > 142	12.00	7570.382		7570.382	7570.382	bb			582.5119	116.5	16.5	406.2
XIBLK02	13-Dinitrobenzene	168 > 138			7570.382									
XIBLK02	Tetryl	241 > 181			7570.382									
XIBLK02	Nitrobenzene	123 > 46			7570.382									
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167			45964.992									
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180			45964.992									
XIBLK02	246-Trinitrotoluene	227 > 210			45964.992									
XIBLK02	34-dinitrotoluene	182 > 152			45964.992									
XIBLK02	26-dinitrotoluene	182 > 152			45964.992									
XIBLK02	24-dinitrotoluene	182 > 152			45964.992									
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.29	45964.992		45964.992	45964.992	bb			582.1510	116.4	16.4	2006.3
XIBLK02	2-Nitrotoluene	137 > 46			45964.992									
XIBLK02	4-Nitrotoluene	137 > 46			45964.992									
XIBLK02	3-Nitrotoluene	137 > 46			45964.992									
XIBLK02	PETN	361 > 62			45964.992									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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

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\EXP0408011a

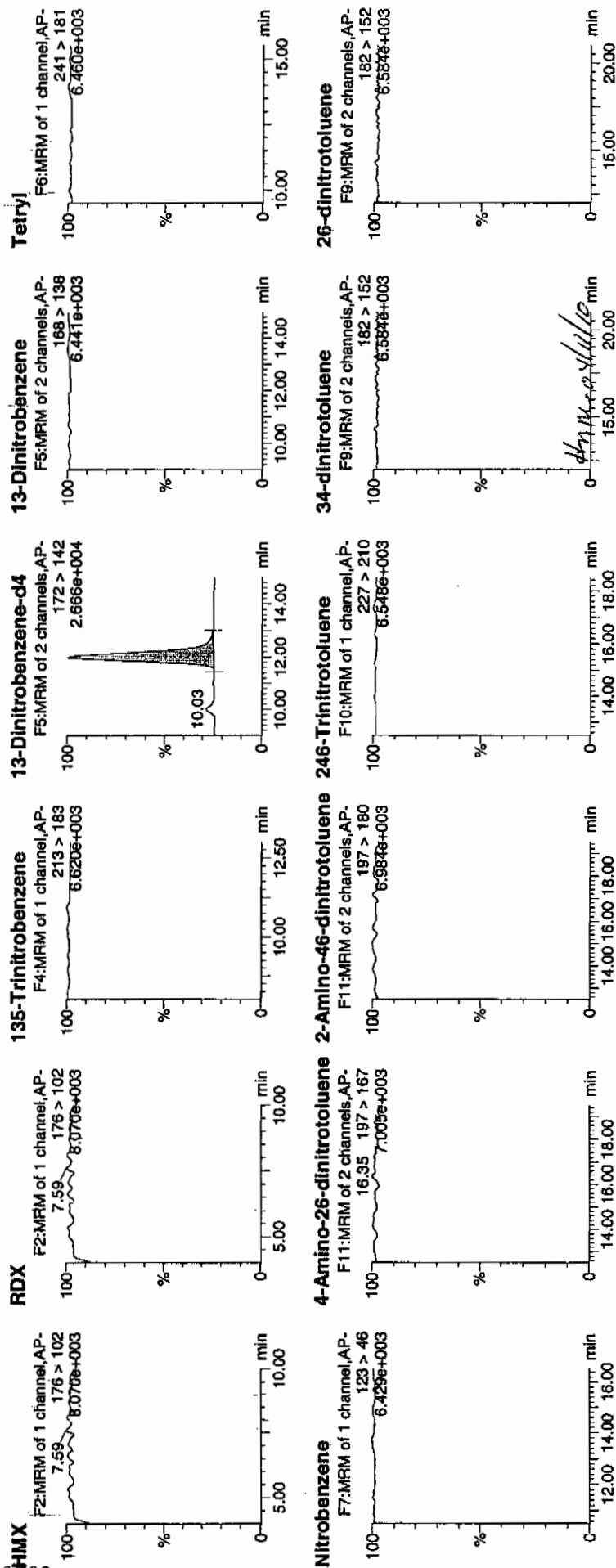
Date: 09-Apr-2010

Time: 02:27:37

ID: XIBLK03

Vial: 1:1,A

of 703

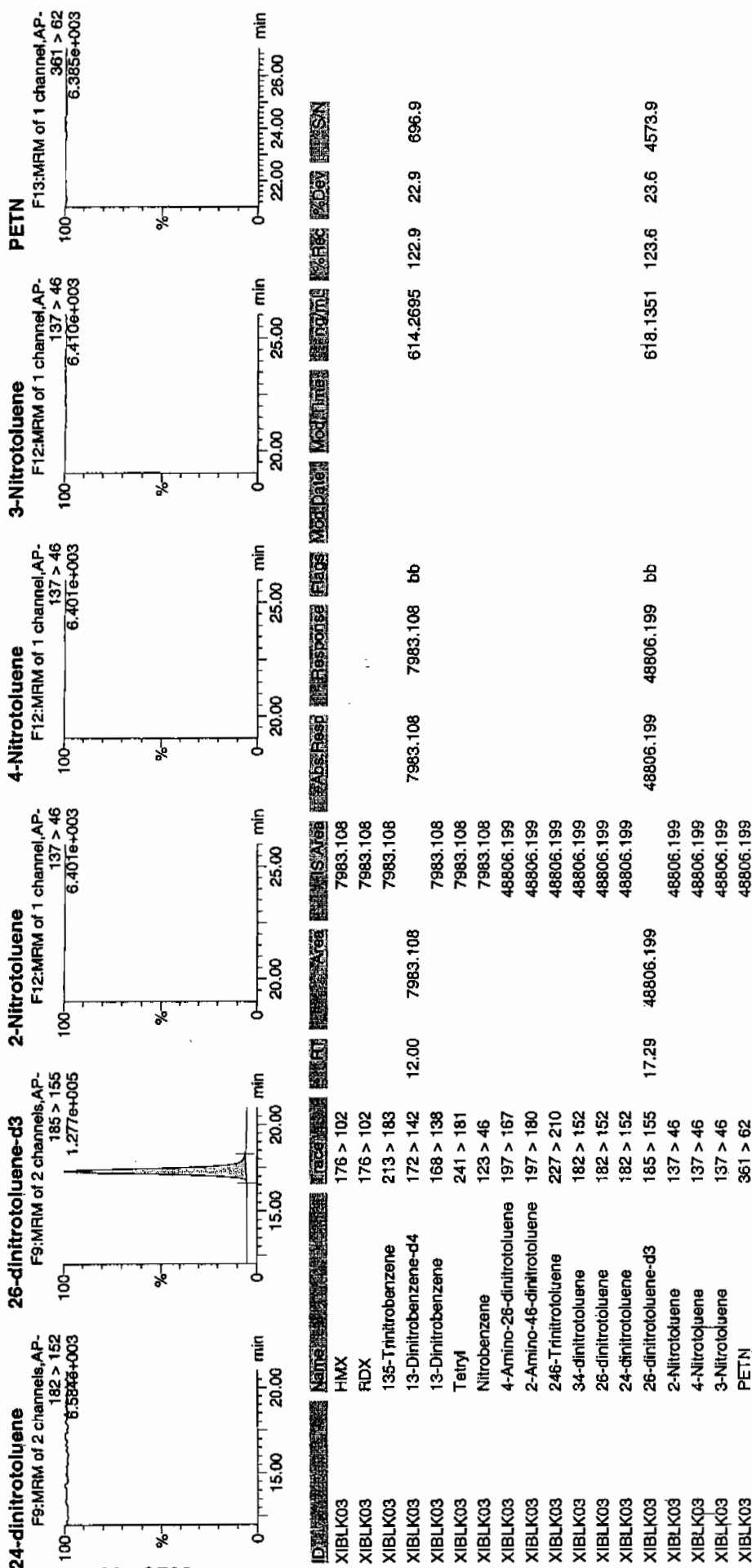


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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



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4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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)
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
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	626.188

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

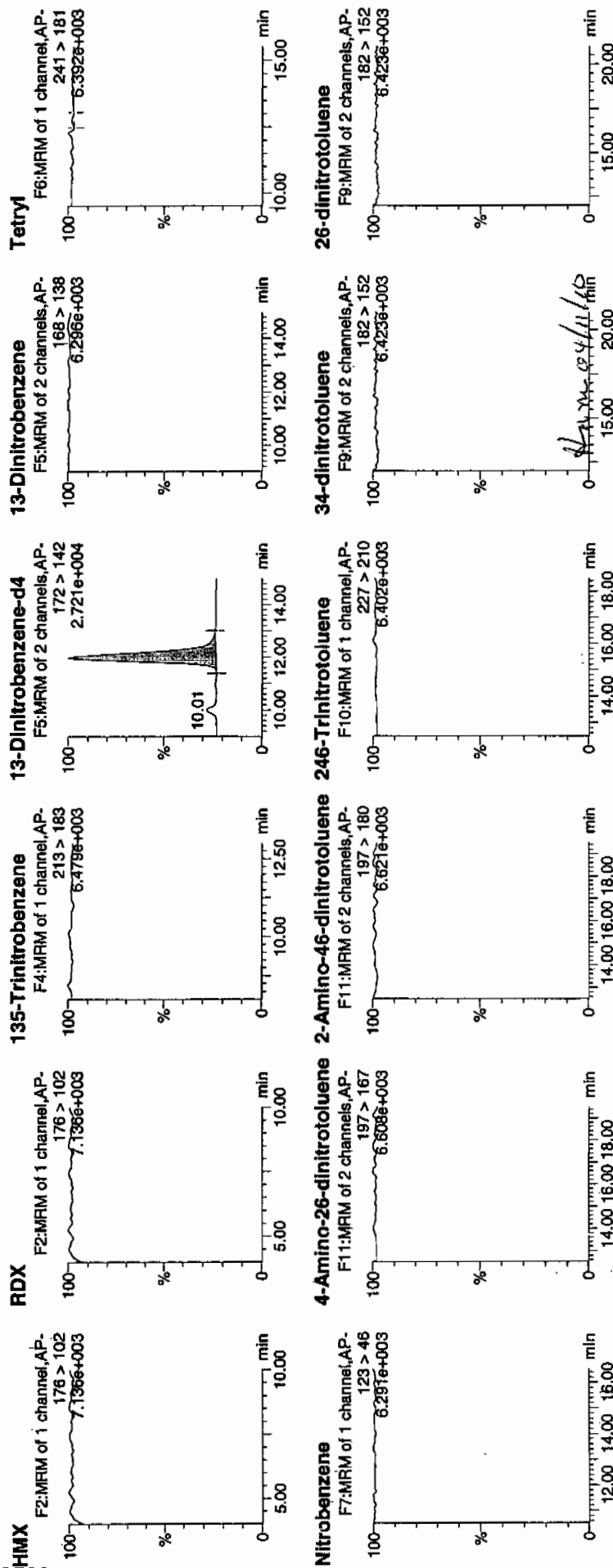
Date: 09-Apr-2010

Time: 08:50:59

ID: XIBLK04

Vial: 1:1A

AP
 4/10/10

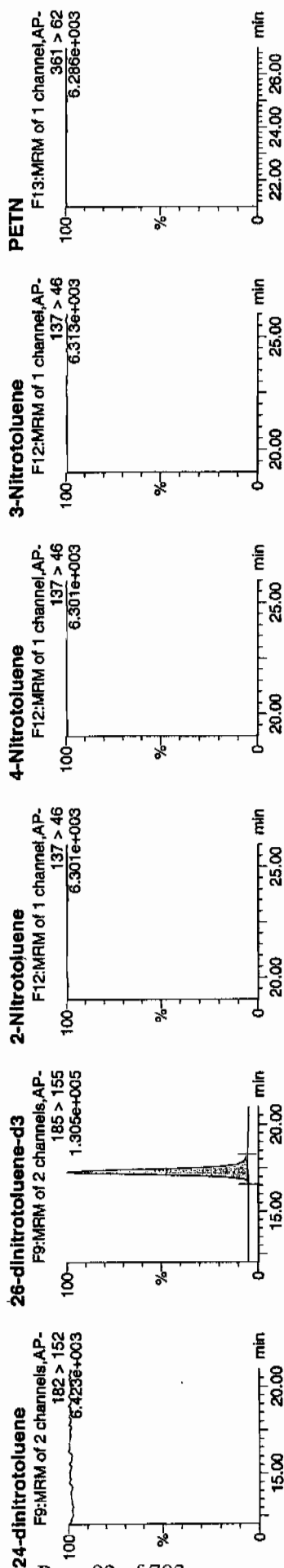


Quantity Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 48 of 51

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



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Acq Date	Acq Time
XIBLK04	HMX	176 > 102			8137.999							
XIBLK04	RDX	176 > 102			8137.999							
XIBLK04	135-Trinitrobenzene	213 > 183			8137.999							
XIBLK04	13-Dinitrobenzene-d4	172 > 142	11.97	8137.999								
XIBLK04	13-Dinitrobenzene	168 > 138			8137.999							
XIBLK04	Tetryl	241 > 181			8137.999							
XIBLK04	Nitrobenzene	123 > 46			50091.766							
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167			50091.766							
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180			50091.766							
XIBLK04	246-Trinitrotoluene	227 > 210			50091.766							
XIBLK04	34-dinitrotoluene	182 > 152			50091.766							
XIBLK04	26-dinitrotoluene	182 > 152			50091.766							
XIBLK04	24-dinitrotoluene	182 > 152			50091.766							
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.27	50091.766								
XIBLK04	2-Nitrotoluene	137 > 46			50091.766							
XIBLK04	4-Nitrotoluene	137 > 46			50091.766							
XIBLK04	3-Nitrotoluene	137 > 46			50091.766							
XIBLK04	PETN	361 > 62			50091.766							
						8137.999	8137.999	bb	MM-	09-Apr-10	10:42:51	
						50091.766	50091.766	bb				
						634.4169	126.9	25.2	456.2			
						626.1878	125.2	25.2	456.2			
						50091.766	50091.766	bb				
						634.4169	126.9	26.9	5991.7			

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 23 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\EXP0408037a

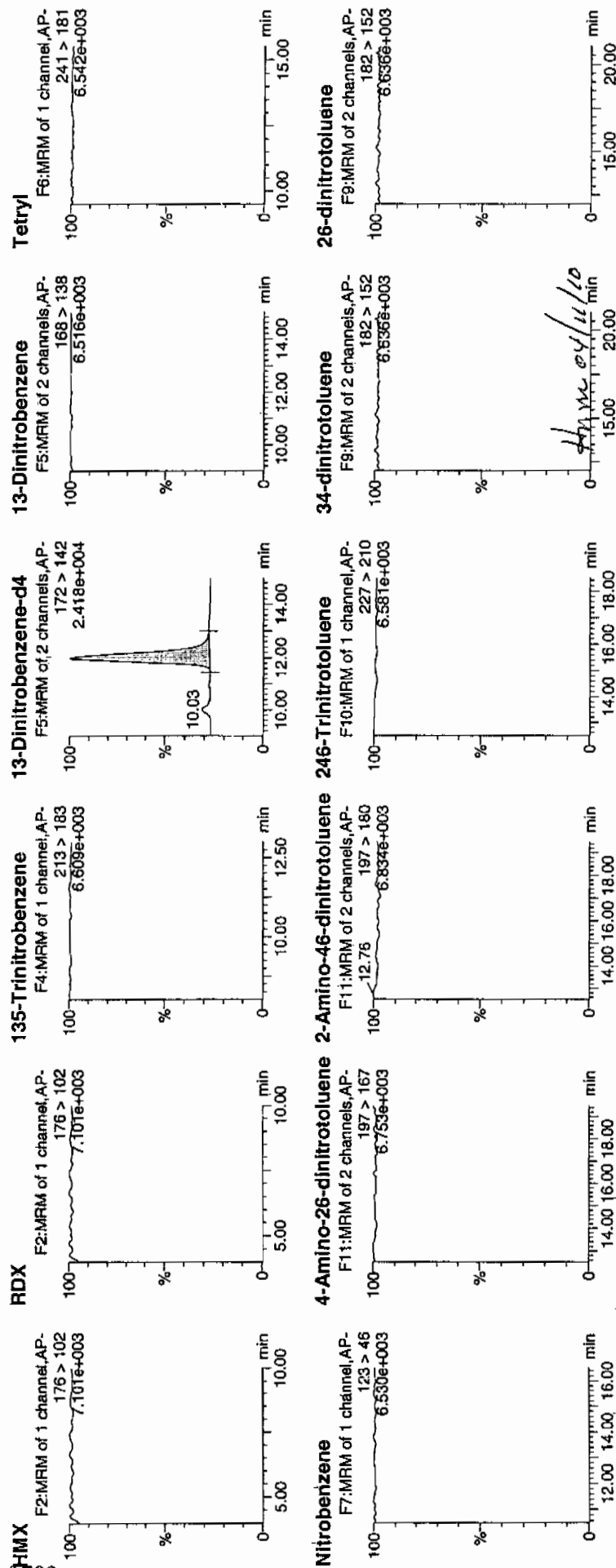
Date: 09-Apr-2010

Time: 15:14:23

ID: XIBLK05

Vial: 1:1,A

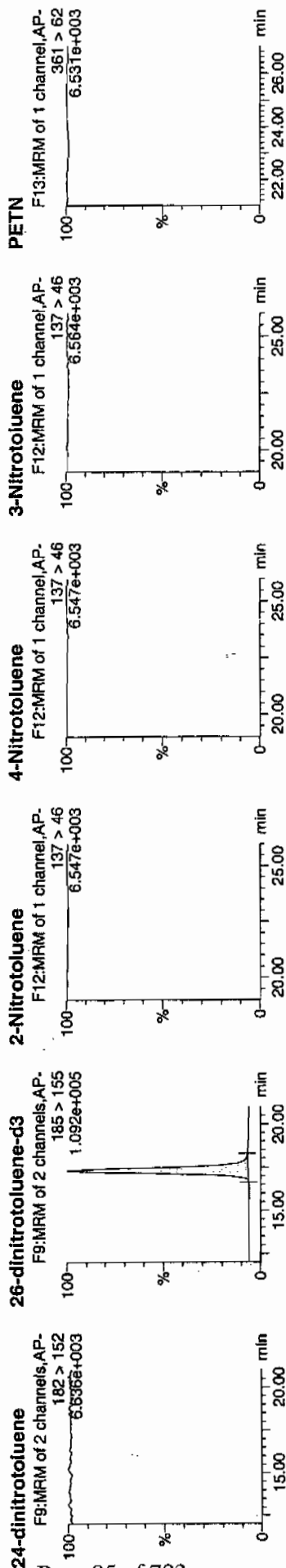
W07
4/10/10



Printed: Sat Apr 10 11:42:30 2010, Page 24 of 99

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



ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod	Date	%Rec	%Dev	SN
XIBLK05	HMX	176 > 102			6980.063								
XIBLK05	RDX	176 > 102			6980.063								
XIBLK05	135-Trinitrobenzene	213 > 183			6980.063								
XIBLK05	13-Dinitrobenzene-d4	172 > 142	12.00	6980.063				bb			537.0891	107.4	7.4
XIBLK05	13-Dinitrobenzene	168 > 138			6980.063								
XIBLK05	Tetryl	241 > 181			6980.063								
XIBLK05	Nitrobenzene	123 > 46			6980.063								
XIBLK05	4-Amino-26-dinitrotoluene	197 > 167			6980.063								
XIBLK05	2-Amino-46-dinitrotoluene	197 > 180			40903.723								
XIBLK05	246-Trinitrotoluene	227 > 210			40903.723								
XIBLK05	34-dinitrotoluene	182 > 152			40903.723								
XIBLK05	26-dinitrotoluene	182 > 152			40903.723								
XIBLK05	24-dinitrotoluene	182 > 152			40903.723								
XIBLK05	26-dinitrotoluene-d3	185 > 155	17.29	40903.723				bb			518.0495	103.6	3.6
XIBLK05	2-Nitrotoluene	137 > 46			40903.723								
XIBLK05	4-Nitrotoluene	137 > 46			40903.723								
XIBLK05	3-Nitrotoluene	137 > 46			40903.723								
XIBLK05	PETN	361 > 62			40903.723								

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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)
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
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

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

Date: 09-Apr-2010

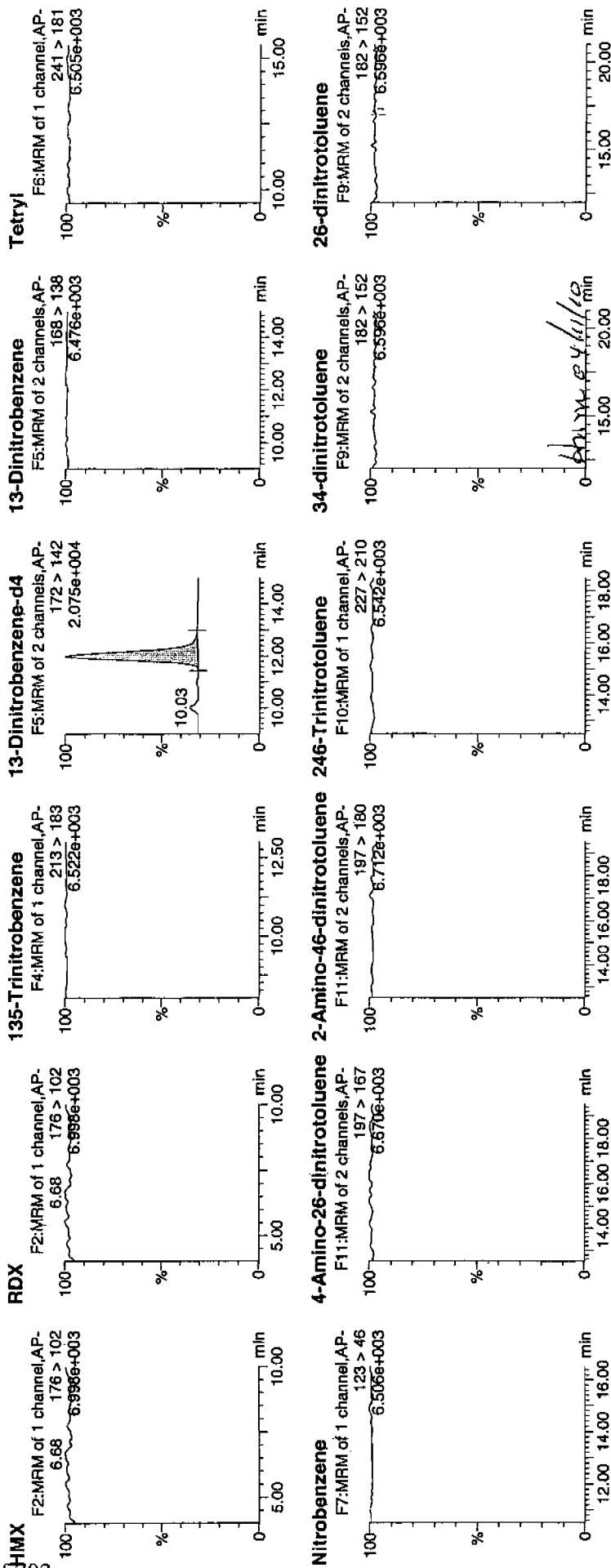
Time: 20:12:37

ID: XIBLK06

Vial: 1:1,A

4/10/10

HMx

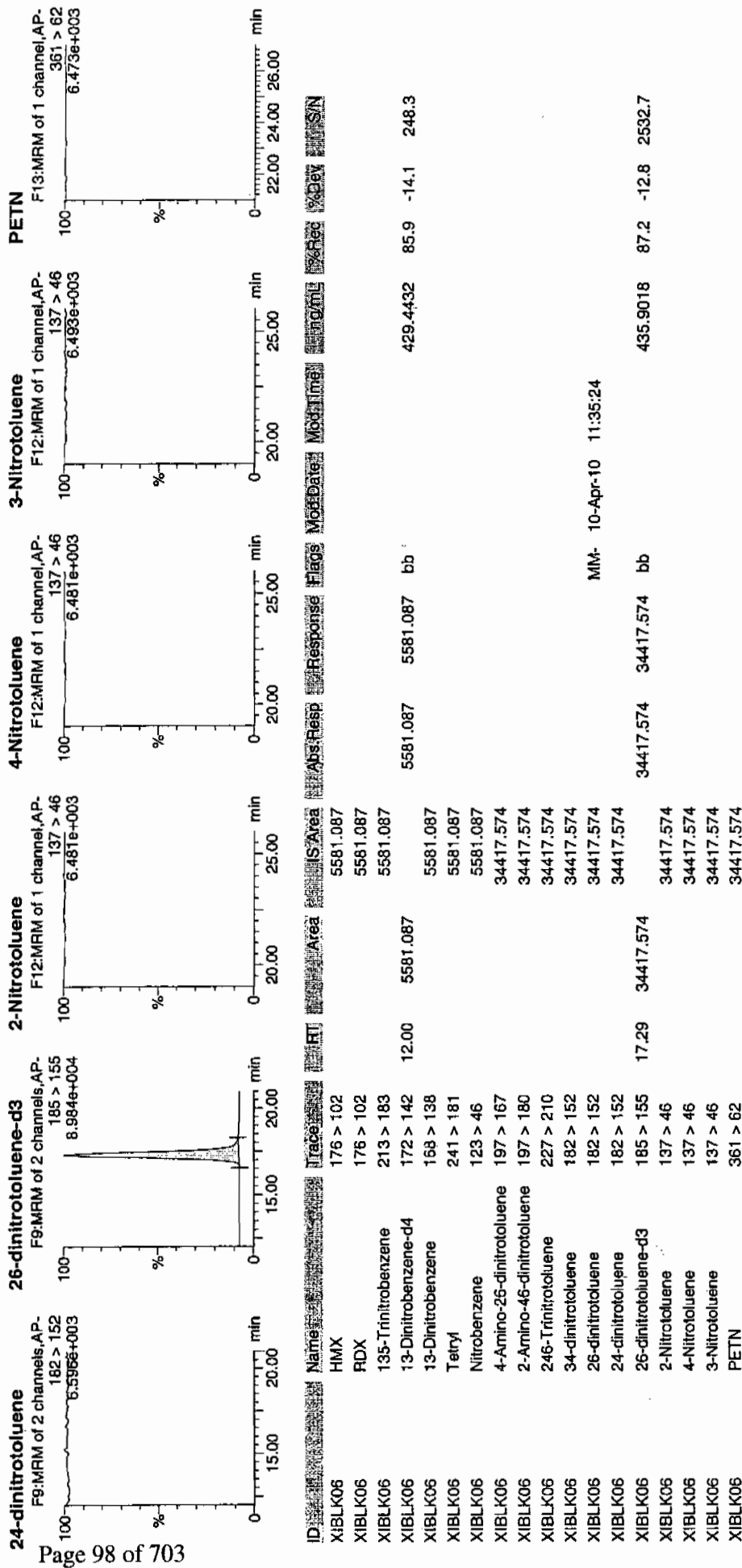


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 44 of 99

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



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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

Printed: Sat Apr 10 11:42:30 2010, Page 69 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\EXP0408060a

Date: 10-Apr-2010

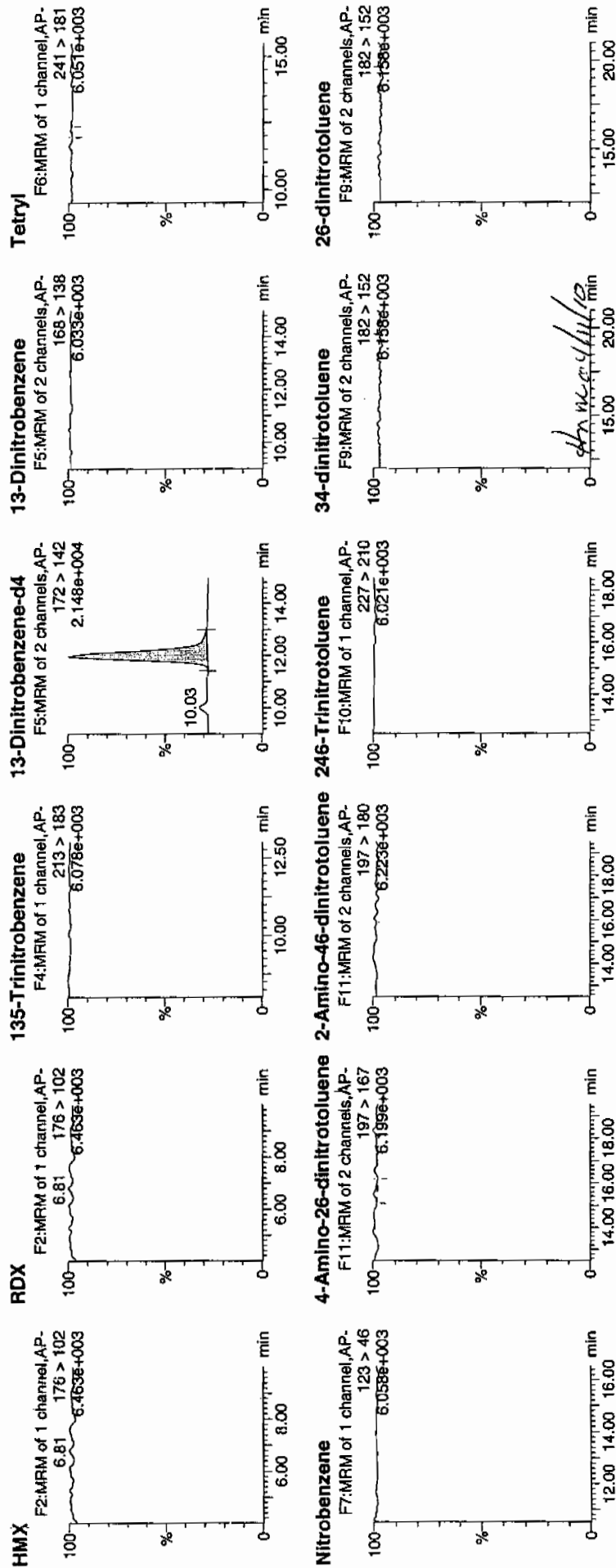
Time: 02:36:11

ID: XIBLK07

Vial: 1:1,A

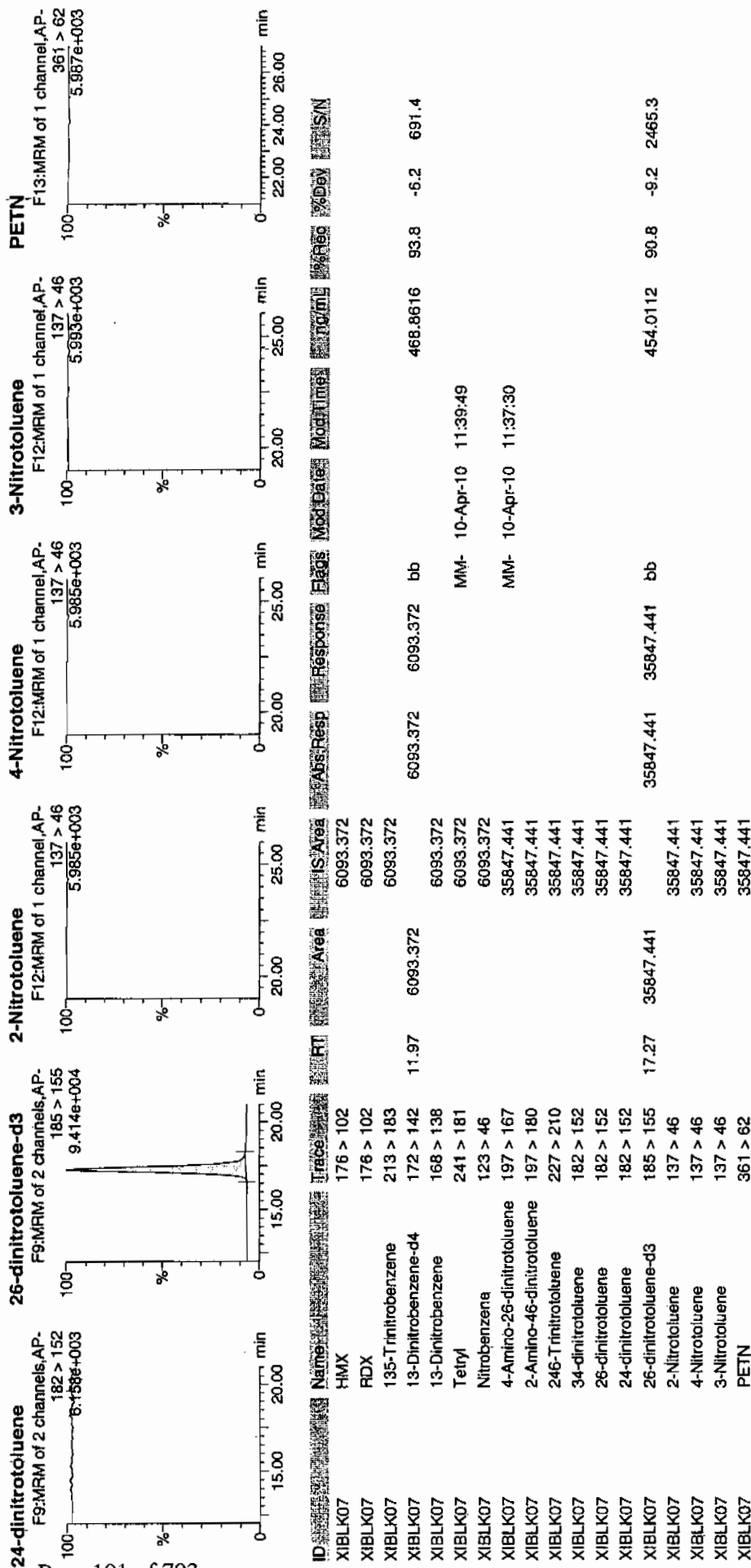
4/10/10
MJP

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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



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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)
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
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
3,4-Dinitrotoluene	0	0

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\EXP0408073a

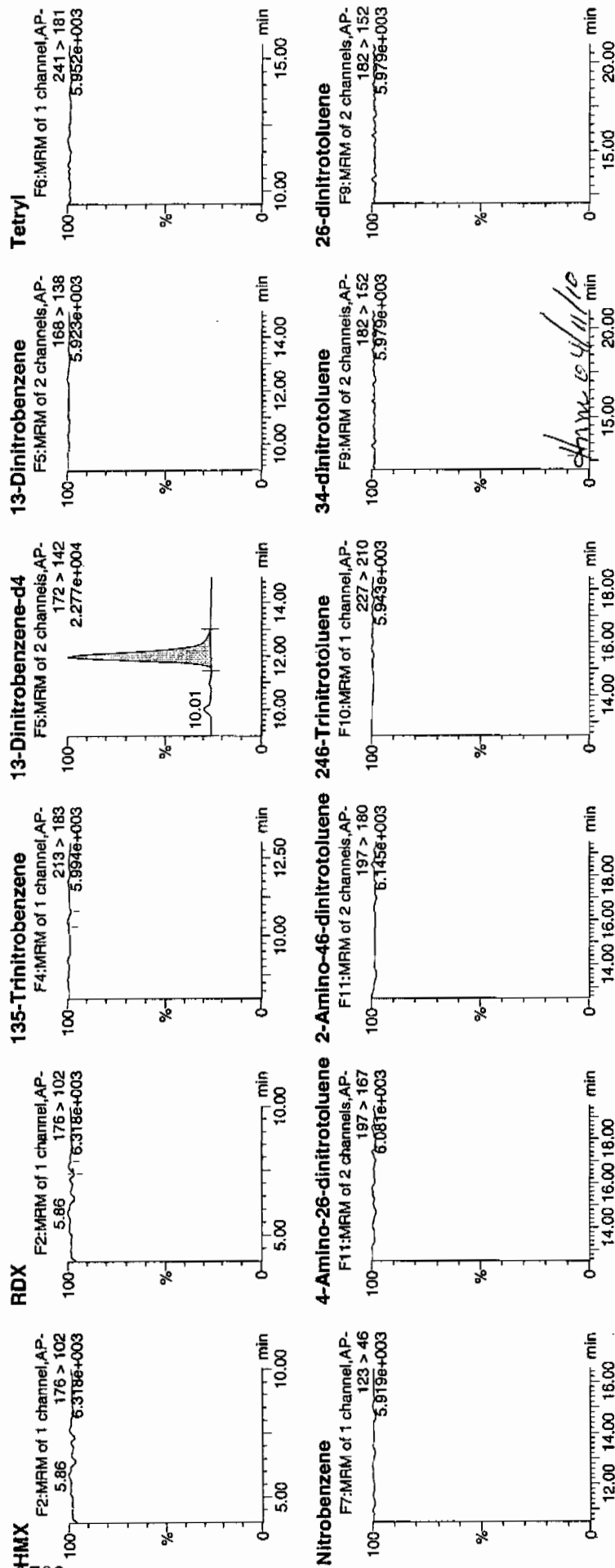
Date: 10-Apr-2010

Time: 08:59:47

ID: XIBLK08

Vial: 1:1,A

MM
4/10/10

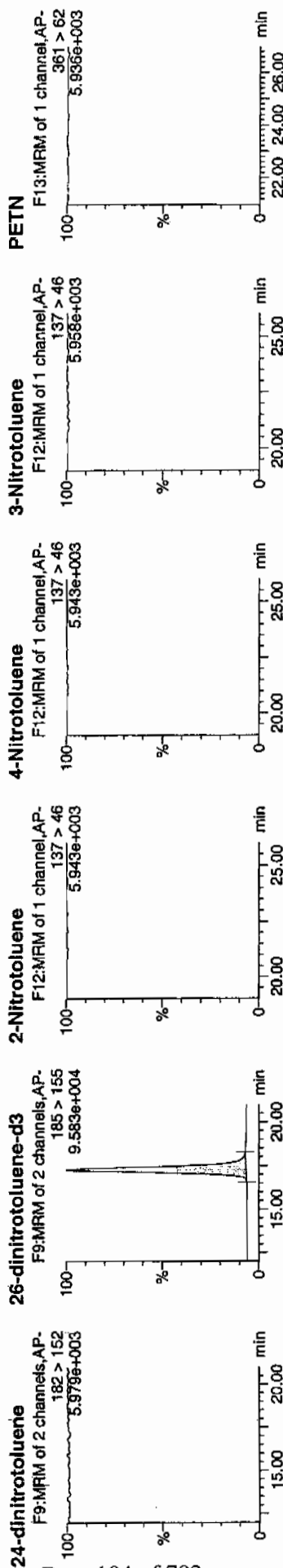


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 96 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	Abs Resp	Response	Flags	Mod	Date	Conc	% Rec	% Dev	SN
XIBLK08	HMX	176 > 102			6575.798									
XIBLK08	RDX	176 > 102			6575.798									
XIBLK08	135-Trinitrobenzene	213 > 183			6575.798									
XIBLK08	13-Dinitrobenzene-d4	172 > 142	11.97	6575.798										
XIBLK08	13-Dinitrobenzene	168 > 138			6575.798									
XIBLK08	Tetryl	241 > 181			6575.798									
XIBLK08	Nitrobenzene	123 > 46			6575.798									
XIBLK08	4-Amino-26-dinitrotoluene	197 > 167			36570.039									
XIBLK08	2-Amino-46-dinitrotoluene	197 > 180			36570.039									
XIBLK08	246-Trinitrotoluene	227 > 210			36570.039									
XIBLK08	34-dinitrotoluene	182 > 152			36570.039									
XIBLK08	26-dinitrotoluene	182 > 152			36570.039									
XIBLK08	24-dinitrotoluene	182 > 152			36570.039									
XIBLK08	26-dinitrotoluene-d3	185 > 155	17.27	36570.039										
XIBLK08	2-Nitrotoluene	137 > 46			36570.039									
XIBLK08	4-Nitrotoluene	137 > 46			36570.039									
XIBLK08	3-Nitrotoluene	137 > 46			36570.039									
XIBLK08	PETN	361 > 62			36570.039									
						6575.798	6575.798	bb		10-Apr-10	11:40:20			
						6575.798	6575.798	bb		10-Apr-10	11:40:06			
						36570.039	36570.039	bb				463.1630	92.6	3298.5
												505.9824	101.2	928.8

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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

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

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

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0408076a

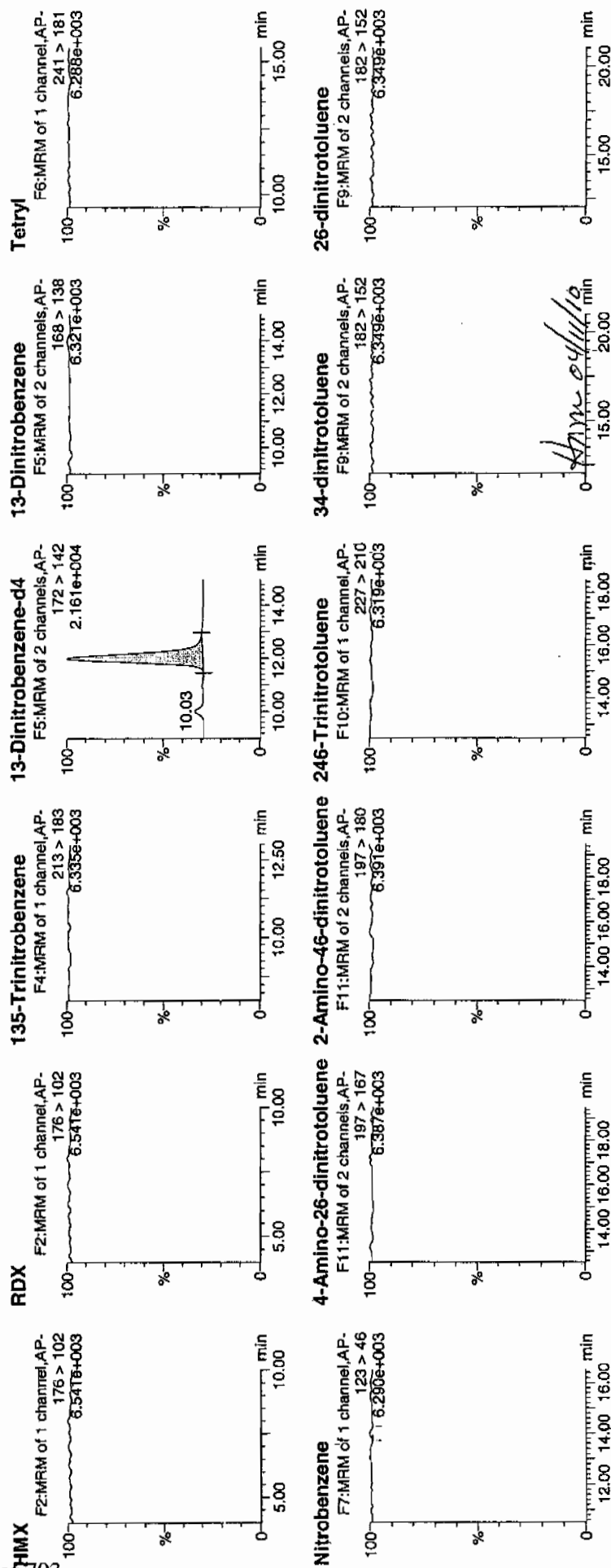
Date: 10-Apr-2010

Time: 10:28:20

ID: XIBLK09

Vial: 1:1,A

10/11/10

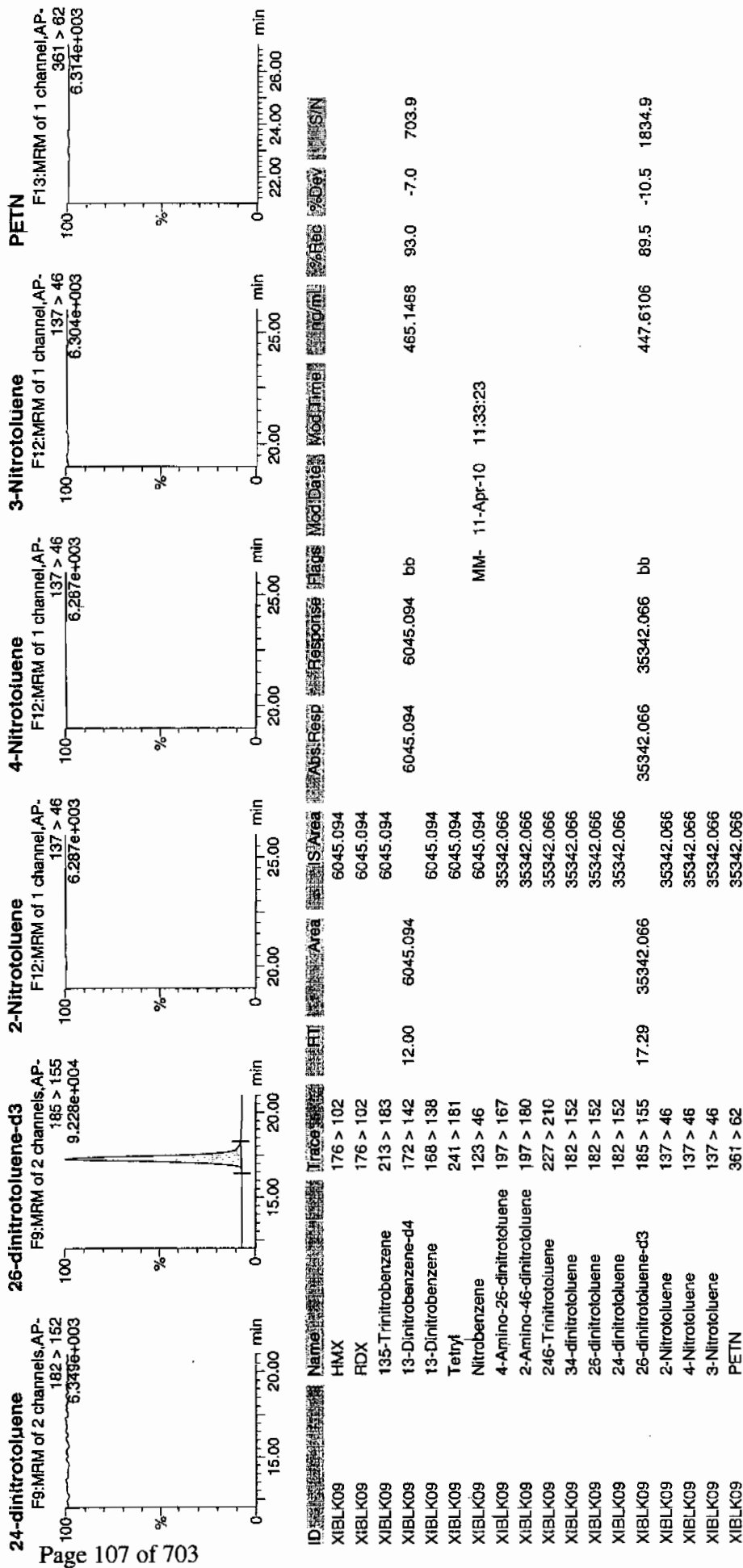


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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)
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
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 23 of 97

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

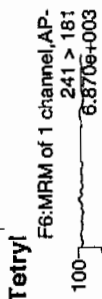
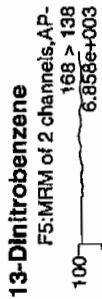
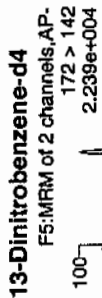
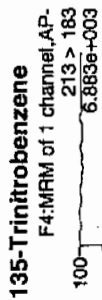
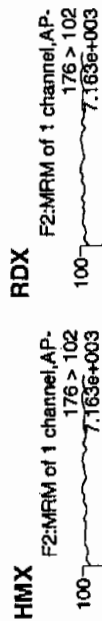
Vial: 1:1,A

10/17
1/11/10

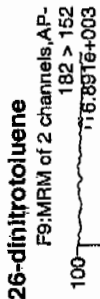
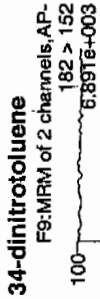
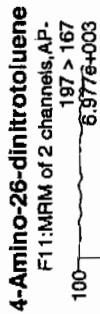
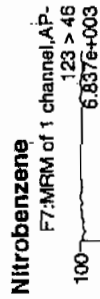
Page 109 of 703

HMZ

RDX



Nitrobenzene

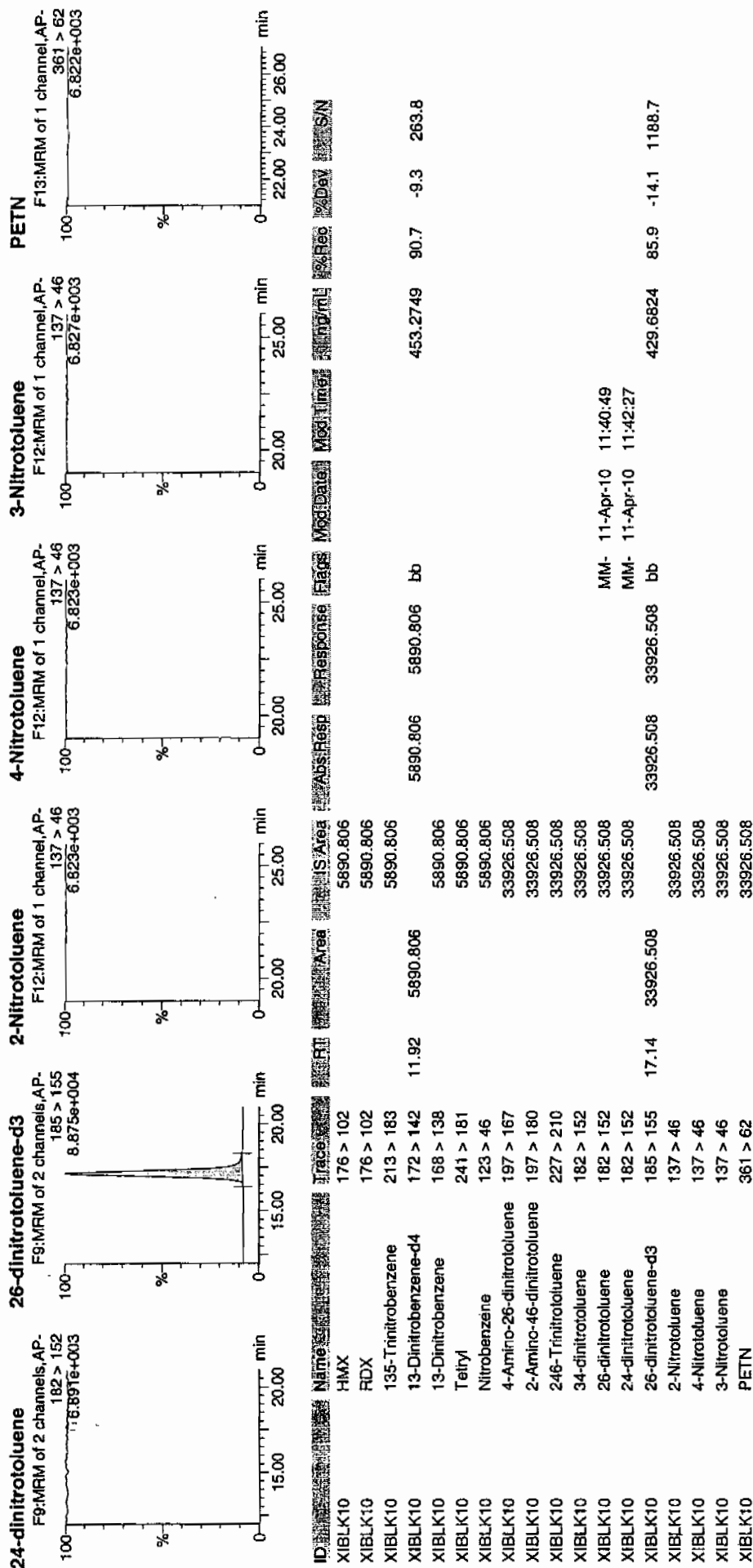


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 24 of 97

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



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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

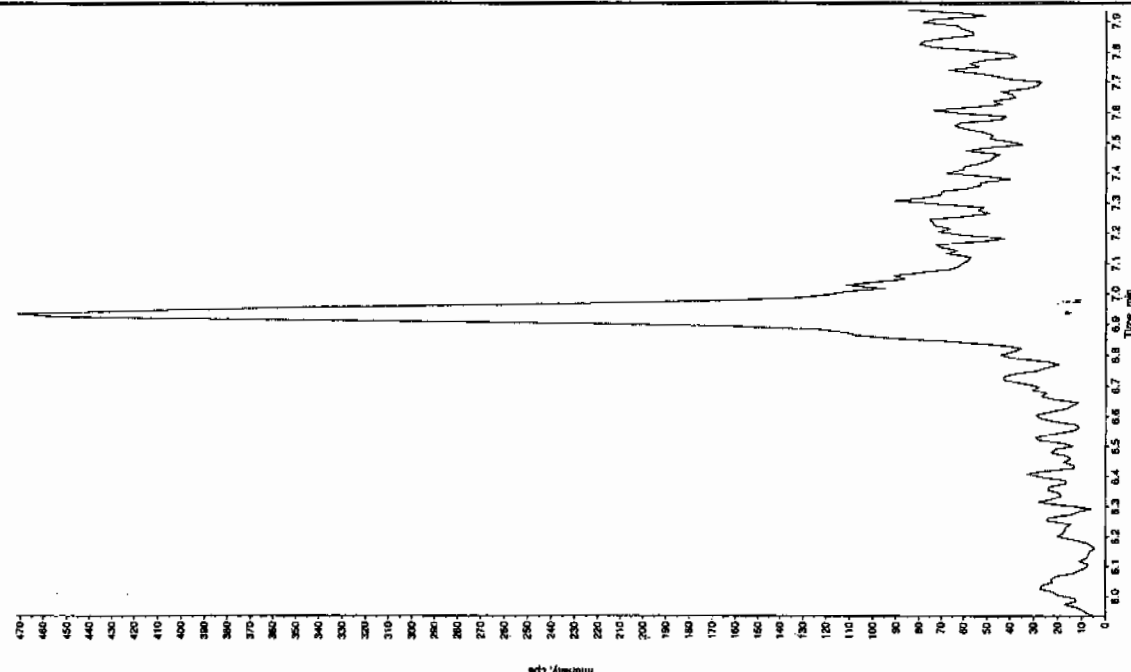
See 3/27/10

Sample Name: 'XBLK02' Sample ID: '111ER' File: 'EXS00220010.wif'

Peak Name: '5-Dimethyl-1H-imidazole' Mass(es): 132.0460 amu

Concentration: 'LCMSEXP_B' Amount: '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



4/11/10 03/29/10

Sample Name: 'XBLK02' Sample ID: '111ER' File: 'EXS00220010.wif'

Peak Name: 'TATB' Mass(es): 257.2049 amu

Concentration: 'LCMSEXP_B' Amount: '1'

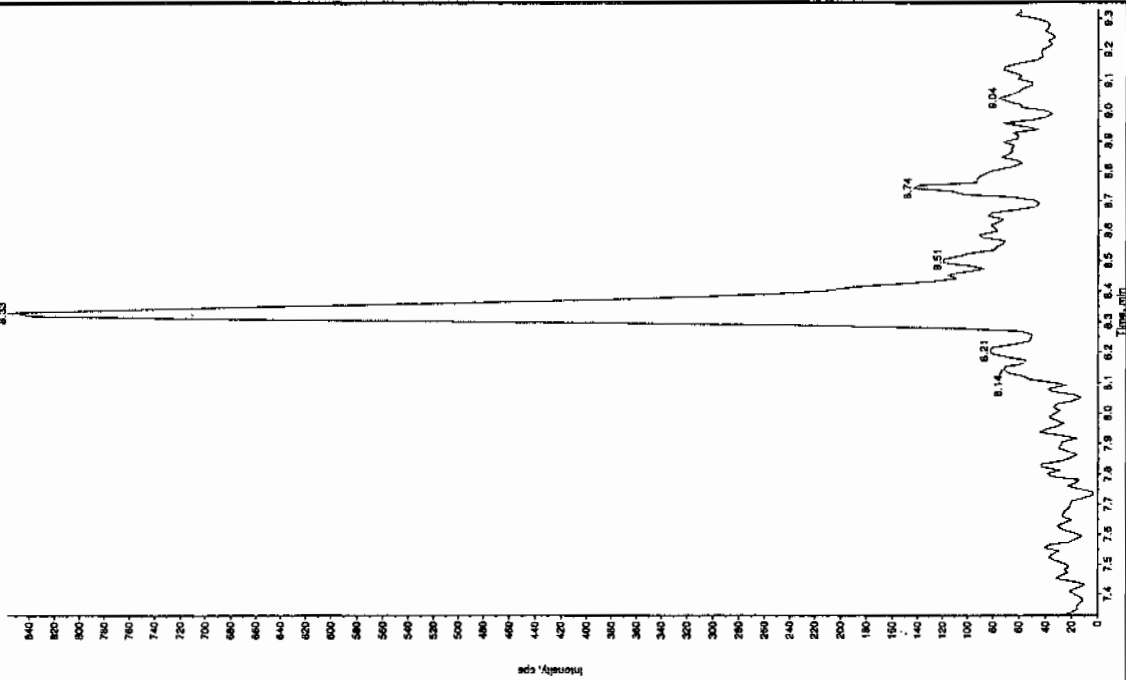
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:19 PM
 Modified: No



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

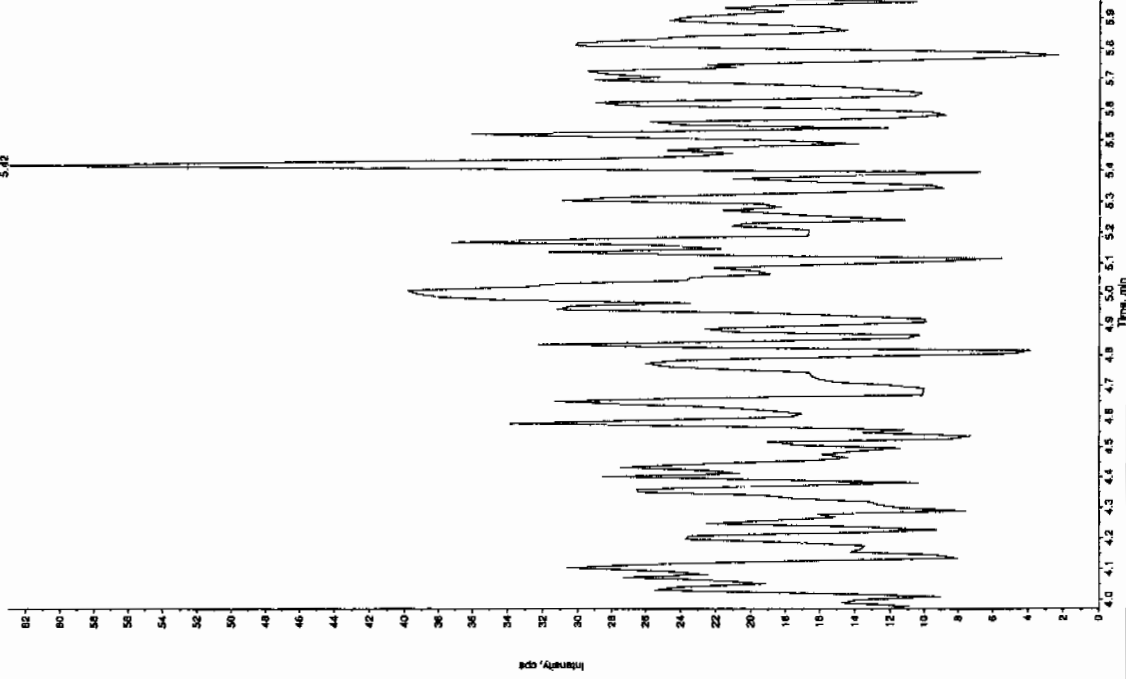
Sample Name: "XIBLK02" Sample ID: "JILLER" File: "EX00020010.wiff"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:13 PM
 Modified: No



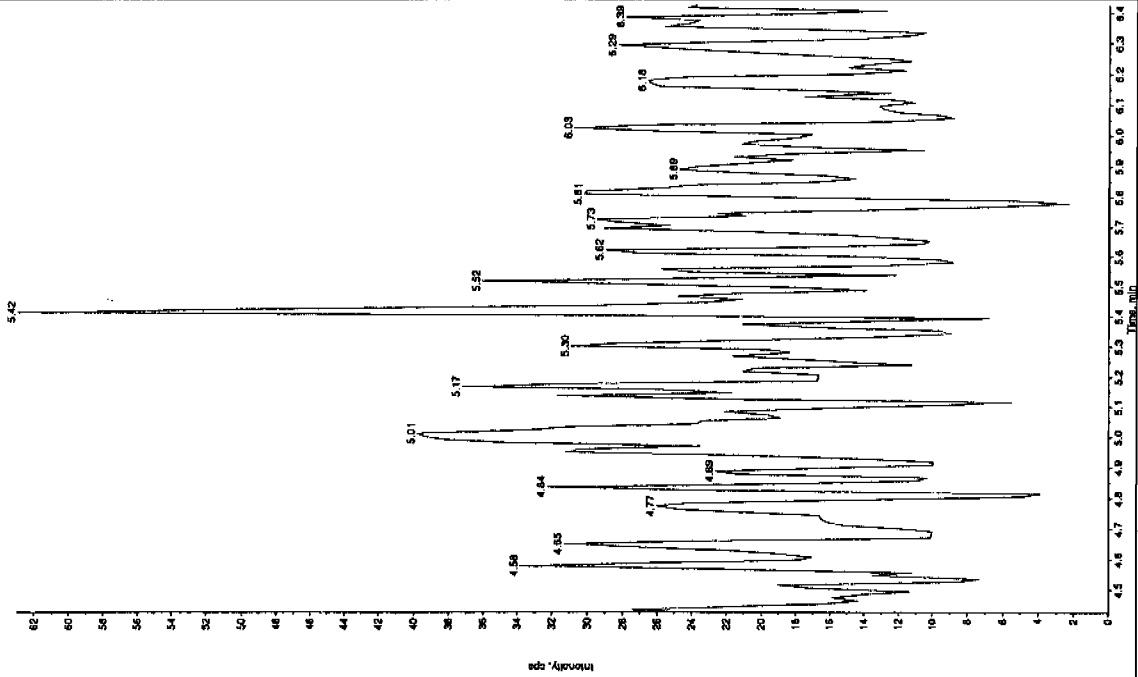
Sample Name: "XIBLK02" Sample ID: "JILLER" File: "EX00020010.wiff"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:13 PM
 Modified: No



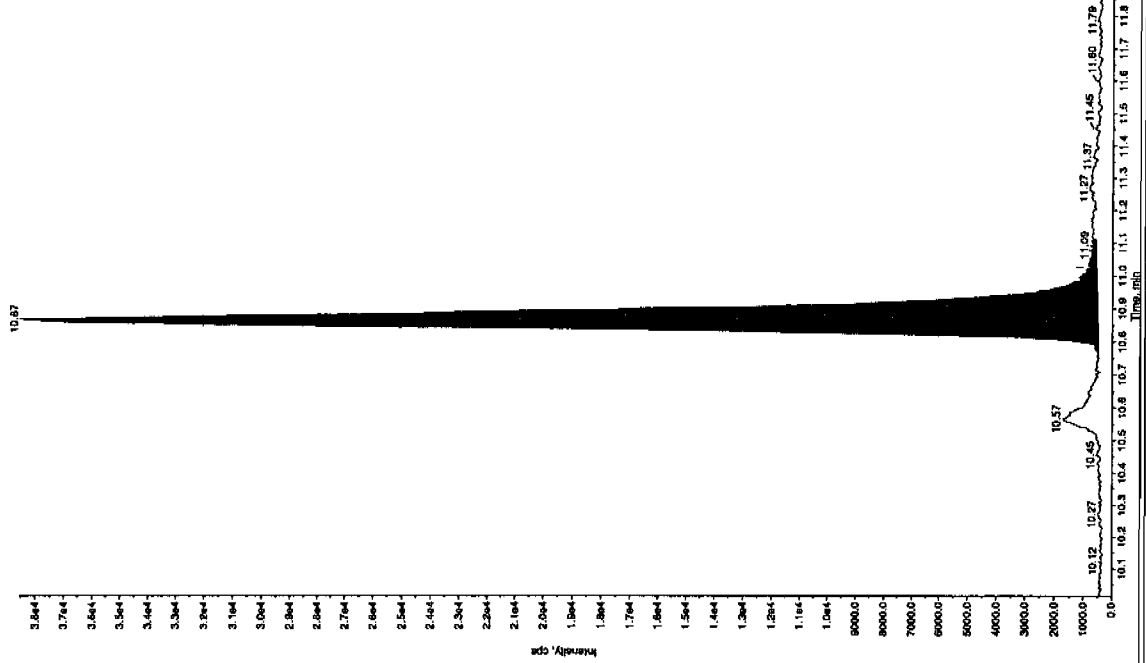
Sample Name: "XBLK02" Sample ID: "111ER" File: "EXS0322010.wiff"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "165.0463.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/22/2010
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:13 PM
 Modified: No



Sample Name: "XBLK02" Sample ID: "111ER" File: "EXS0322010.wiff"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.1811.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/22/2010
 Acq. Date: 3/22/2010
 Acq. Time: 5:34:13 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.53e+005 counts
 Height: 38049.168 cps
 Start Time: 10.6 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 22-MAR-10 18:05

GEL Data File: EXS03220012.wiff

Instrument ID: LCMSMS

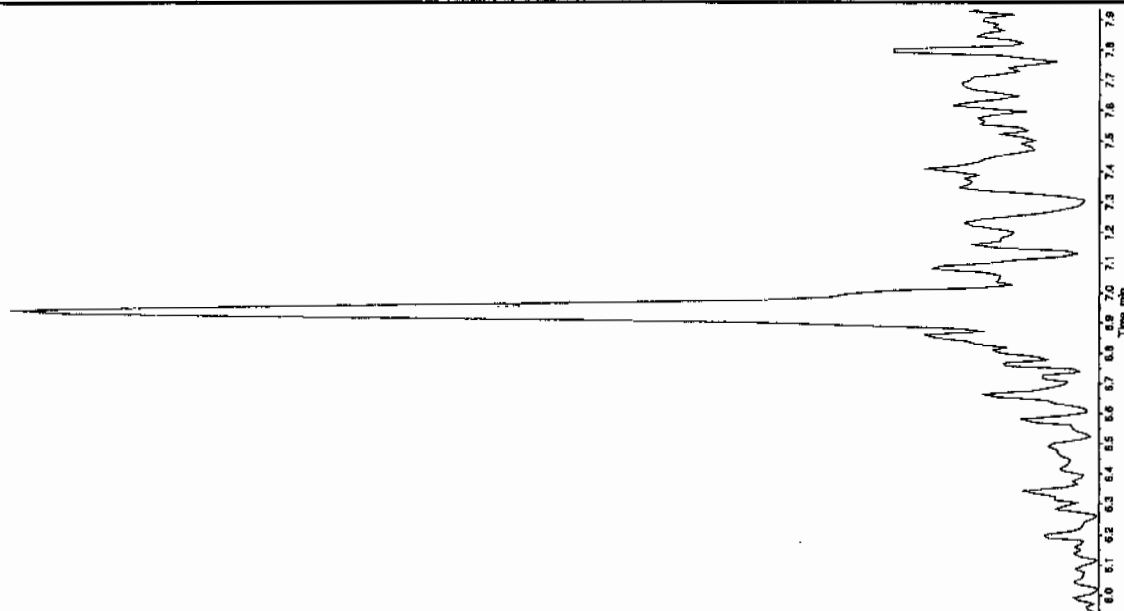
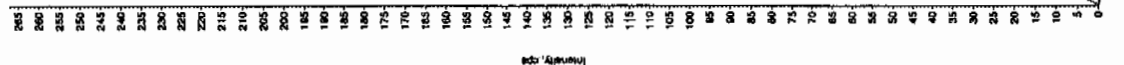
Column: Phenomenex Ultracarb 5u ODS(20)

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

San 3/27/10

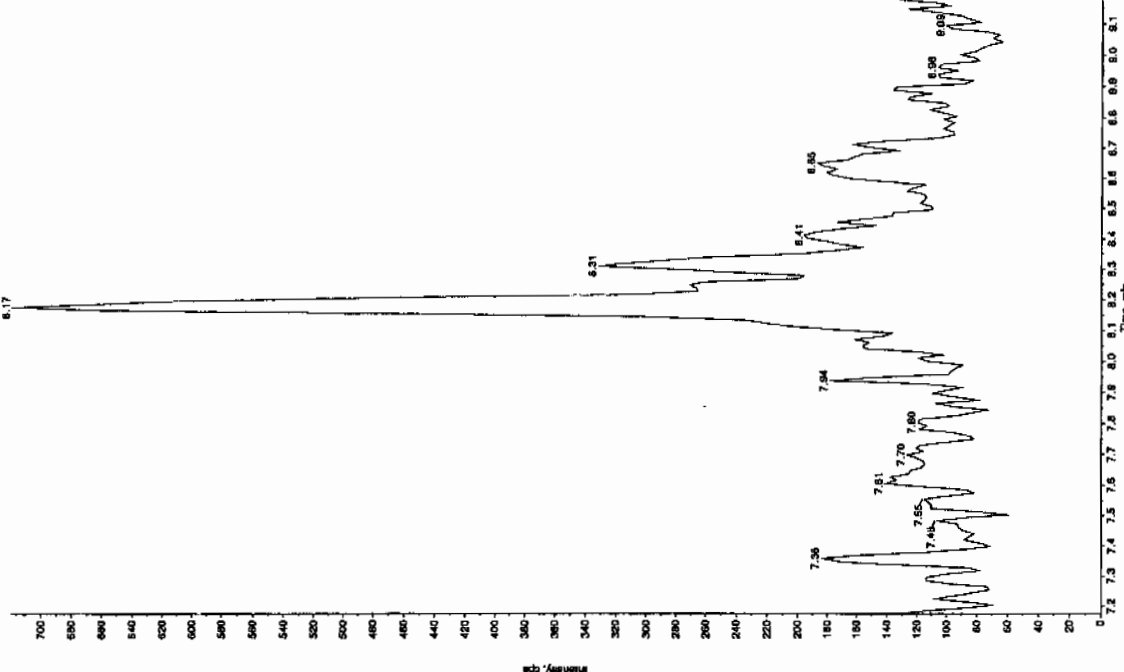
Sample Name: "XIBLK03" Sample ID: "TJLER" File: "EXS0322012.wif"
 Peak Name: "TATB" Mass(es): "257.2/264.9 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

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

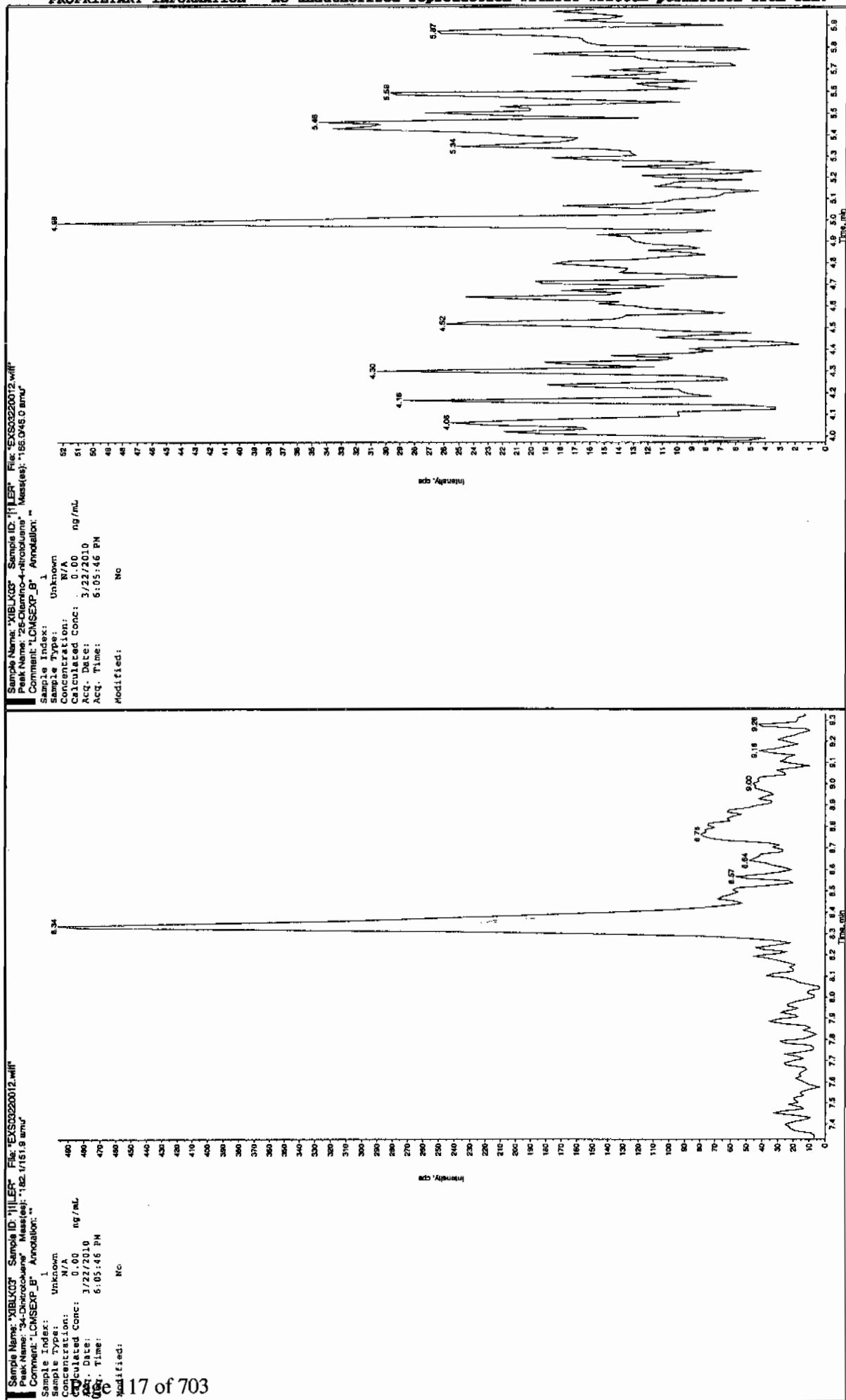


Sample Name: "XIBLK03" Sample ID: "TJLER" File: "EXS0322012.wif"
 Peak Name: "35-Dinitroanthracene" Mass(es): "182.0/184.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

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



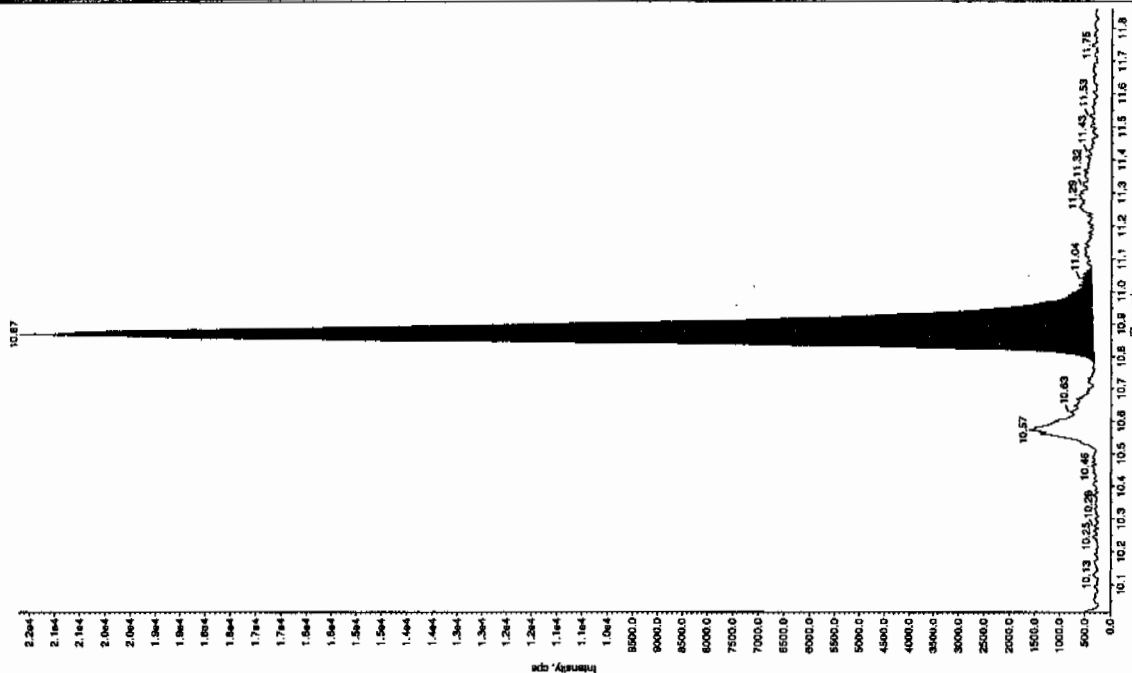
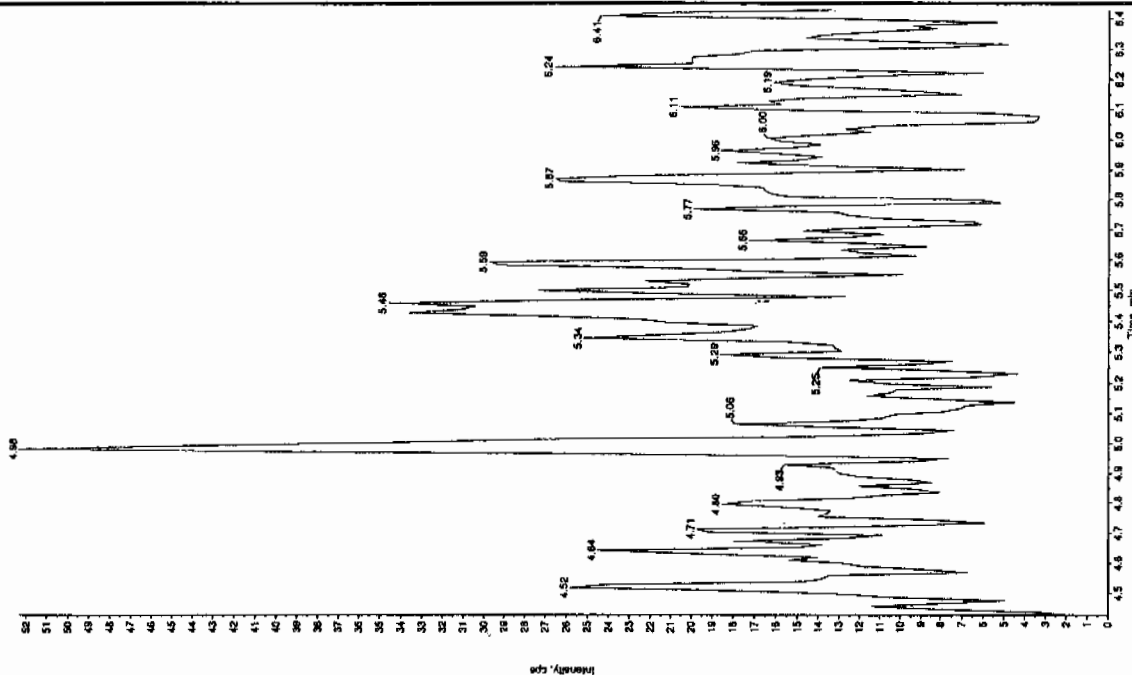
San 3/29/10



Sample Name: "XIBLK03" Sample ID: "IILER" File: "EXS03220012.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"

Sample Index:	1	
Comment:	LMSEXP.B: Amolition:	
Sample Type:	Unknown	
Concentration:	8.78	ng/mL
Acq. Date:	3/22/2010	
Acq. Time:	6:05:45 PM	
Modified:	No	
Algorithm:	IntelliQuan - 10	
Min. Peak Height:	8000.00	cps
Min. Peak Width:	3.000	secs
RT Window:	30.0	secs
Expected RT:	10.9	min
Use Relative RT:	No	
Minant. Type:	Valley	
Retention Time:	10.9	min
Weight:	8.5162526	
Start Time:	10.8	min
End Time:	11.1	min

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



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 22-MAR-10 20:58

GEL Data File: EXS03220023.wiff

Instrument ID: LCMSMS

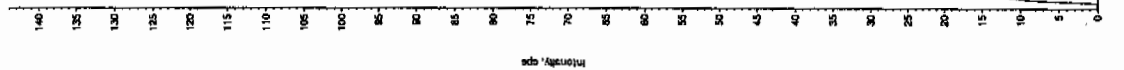
Column: Phenomenex Ultracarb 5u ODS(20)

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

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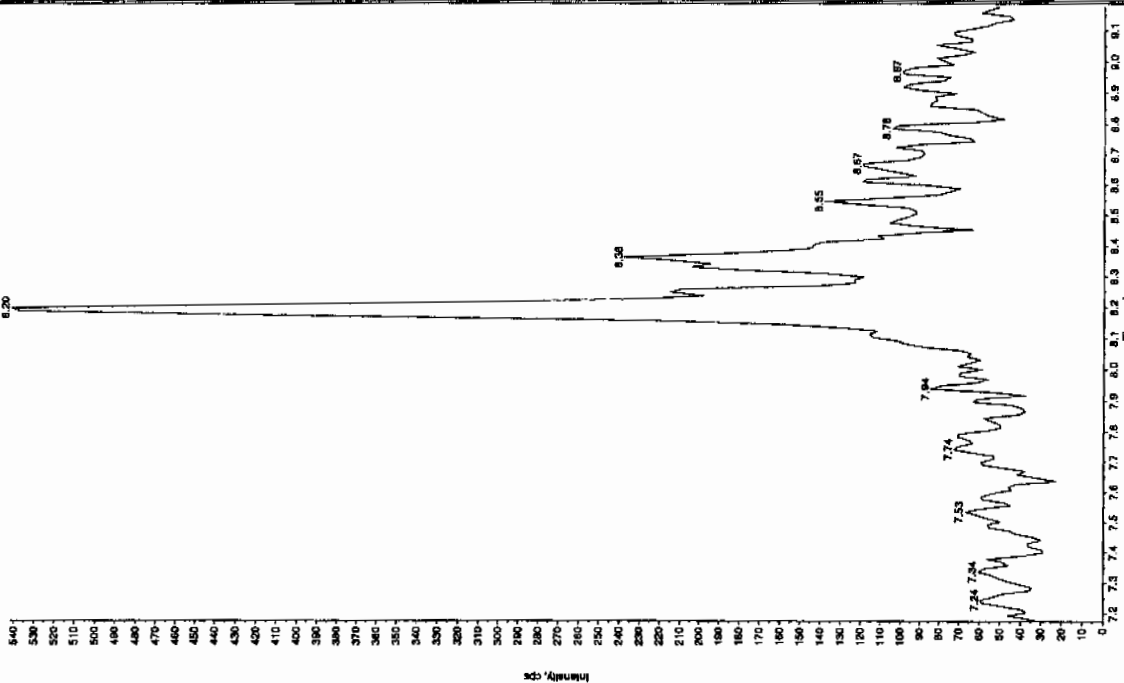
Sample Name: "XBLK04" Sample ID: "T1LER" File: "EXS03220023.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



Sample Name: "XBLK04" Sample ID: "T1LER" File: "EXS03220023.wif"
 Peak Name: "3S-Orlistatline" Mass(es): "182.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

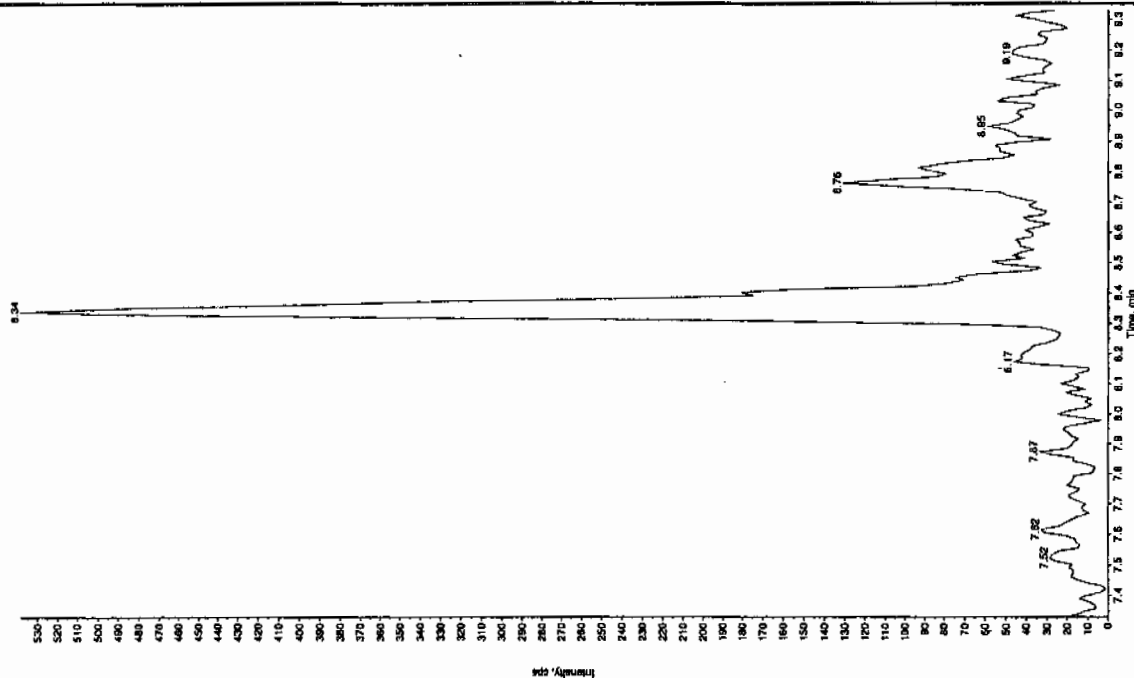
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/22/2010
 Acq. Date: 8:58:36 PM
 Acq. Time: 8:58:36 PM
 Modified: No



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Sample Name: "XIBLK04" Sample ID: "11LER" File: "EX303220023.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "182.0460 amu"
 Comment: "LONSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:58:36 PM
 Modified: No

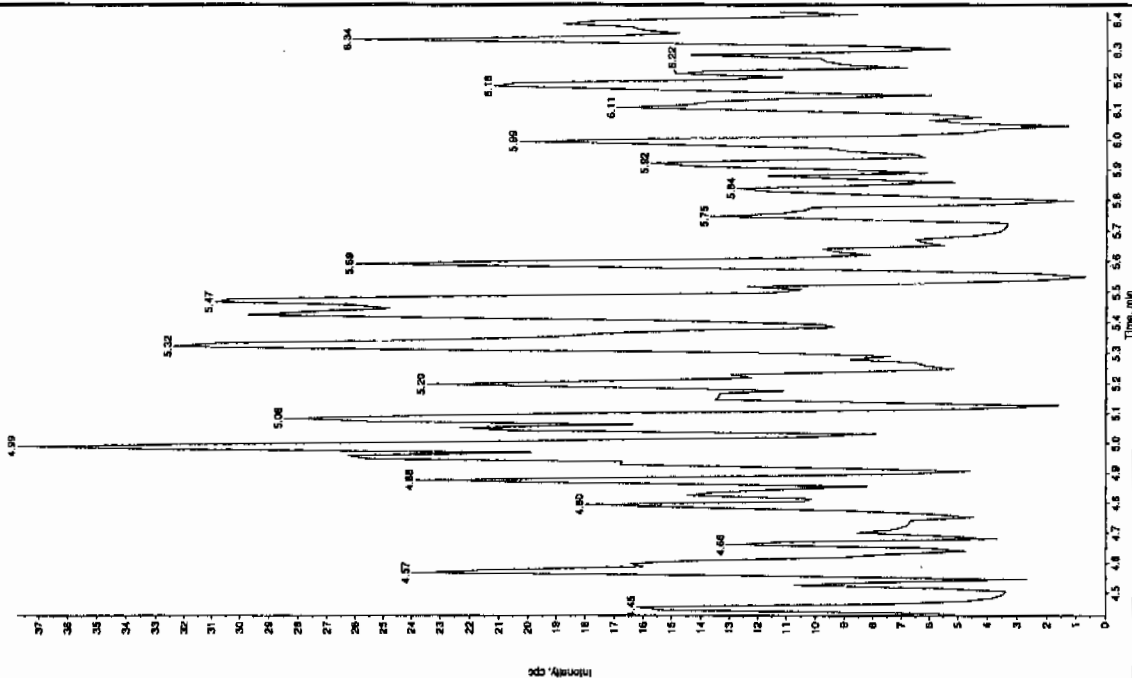


Sample Name: "XIBLK04" Sample ID: "11LER" File: "EX303220023.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "182.0460 amu"
 Comment: "LONSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:58:36 PM
 Modified: No

Sample Name: "XBLK04" Sample ID: "JL1ER" File: "EXS022023.wif"
 Peak Name: "tris(2-creyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/22/2010
 Acq. Date: 8:58:36 PM
 Acq. Time: 8:58:36 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IGA
 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: 6.00e+004 counts
 Height: 14426.788 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XBLK04" Sample ID: "JL1ER" File: "EXS022023.wif"
 Peak Name: "94-Dienol-6-nitrobenzene" Mass(es): "185.0945.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 23-MAR-10 00:22

GEL Data File: EXS03220036.wiff

Instrument ID: LCMSMS

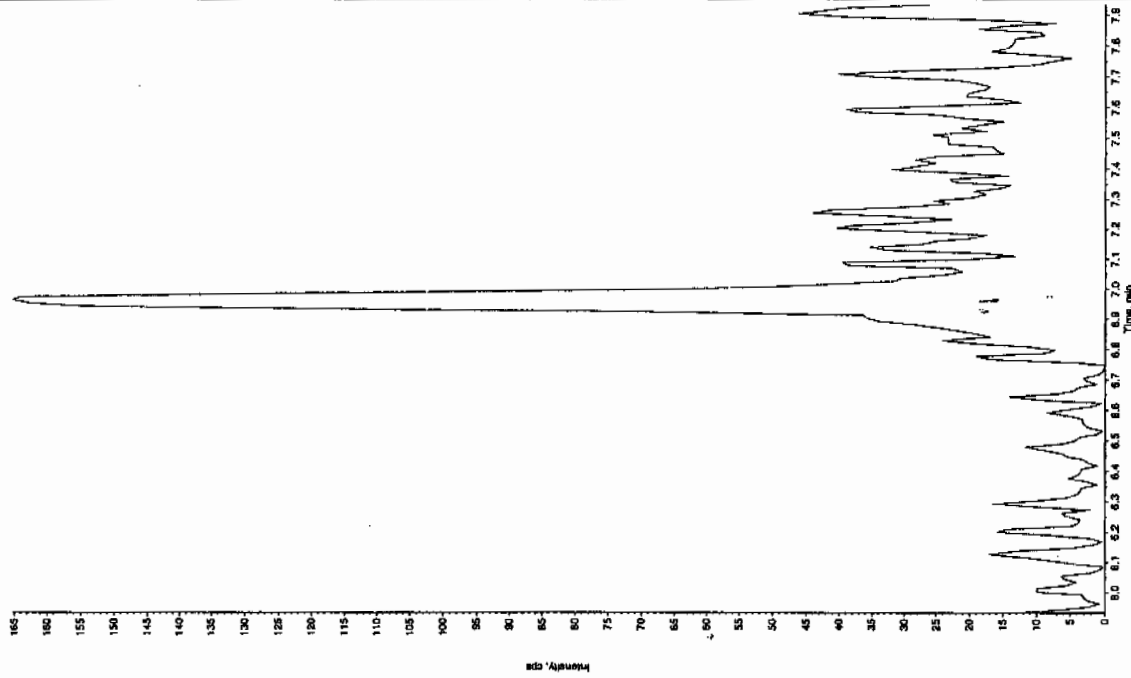
Column: Phenomenex Ultracarb 5u ODS(20)

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 3b7/10

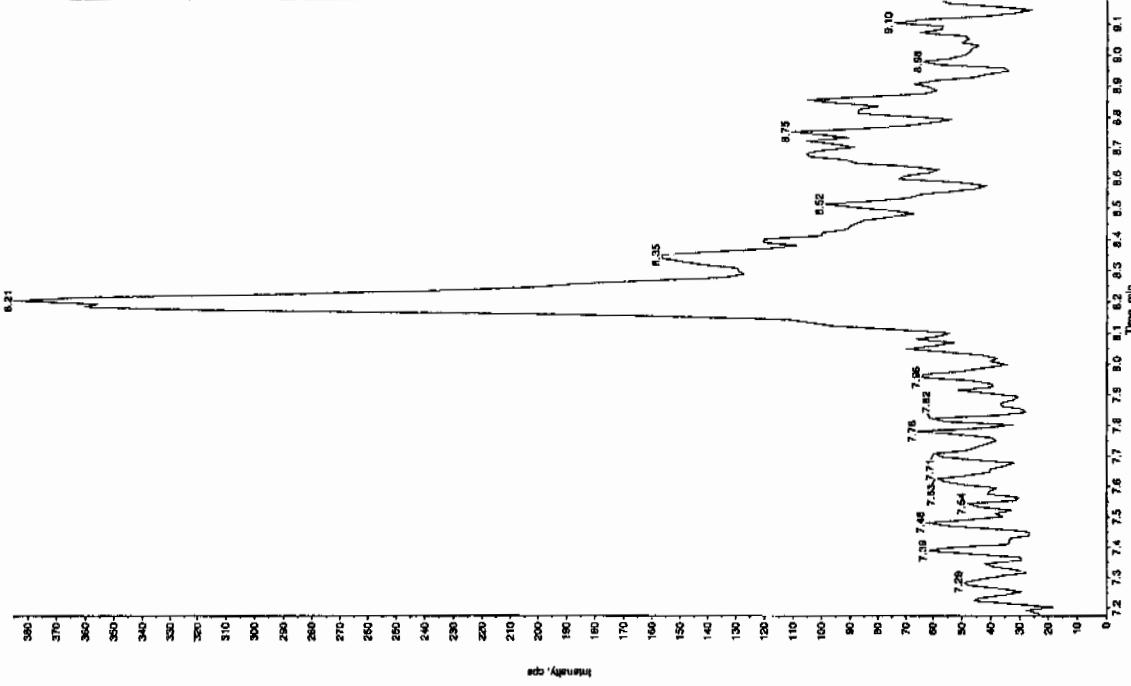
Sample Name: 'XBLK05' Sample ID: '11LER' File: 'EXS0020035.wif'
Peak Name: '1ATB' Mass(es): '257.2204.9 amu'
Comment: 'LCMSEXP_B' Annotation: ''

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



Sample Name: 'XBLK05' Sample ID: '11LER' File: 'EXS0020035.wif'
Peak Name: '35-Chloroantline' Mass(es): '182.048.0 amu'
Comment: 'LCMSEXP_B' Annotation: ''

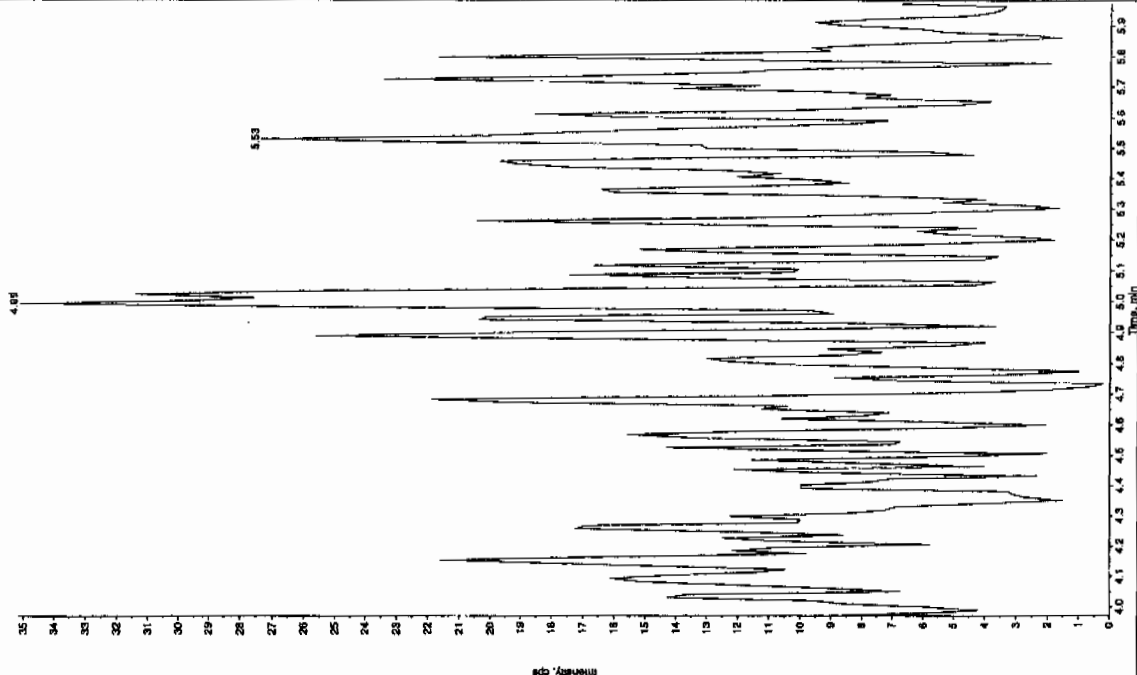
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 12:22:53 AM
Modified: No



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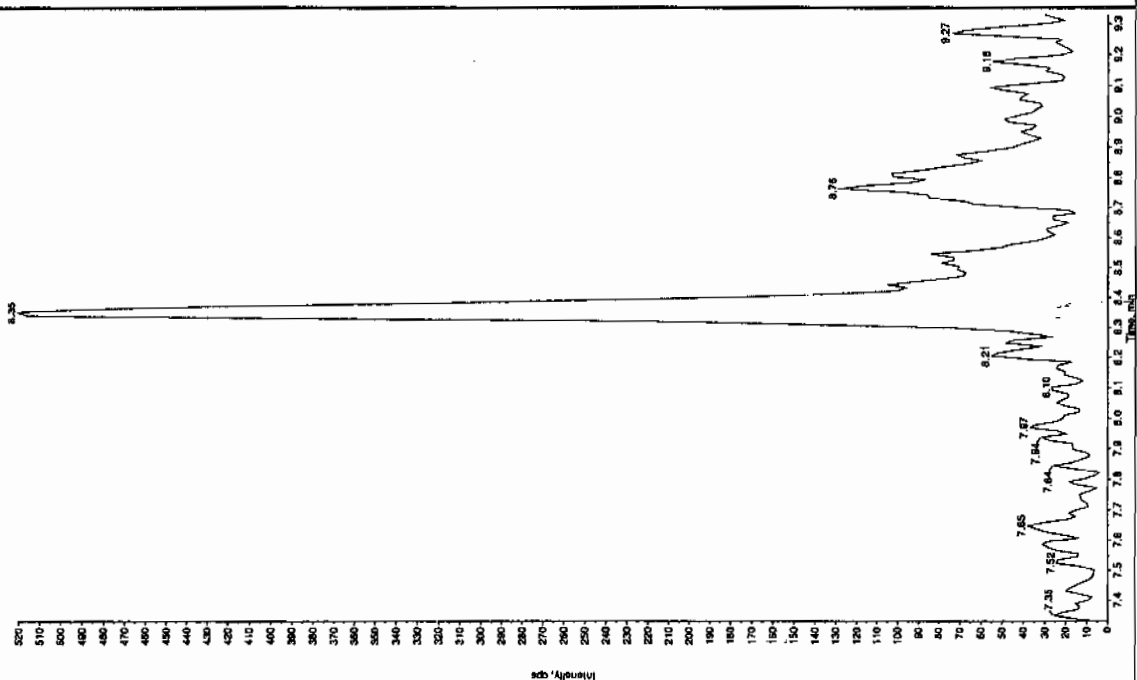
Sample Name: "XBLX05" Sample ID: "11" LER File: "EX00220008.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12/22/13 AM
 Acq. Time: 12:22:53 AM
 Modified: No



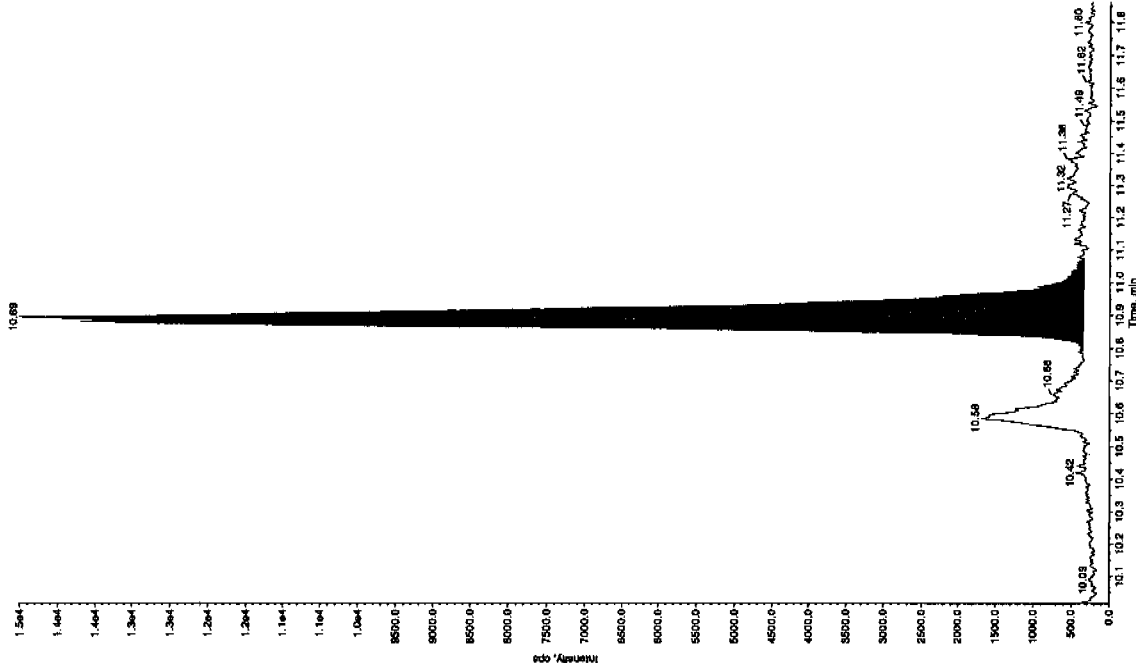
Sample Name: "XBLX05" Sample ID: "11" LER File: "EX00220008.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1715.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12/22/13 AM
 Acq. Time: 12:22:53 AM
 Modified: No



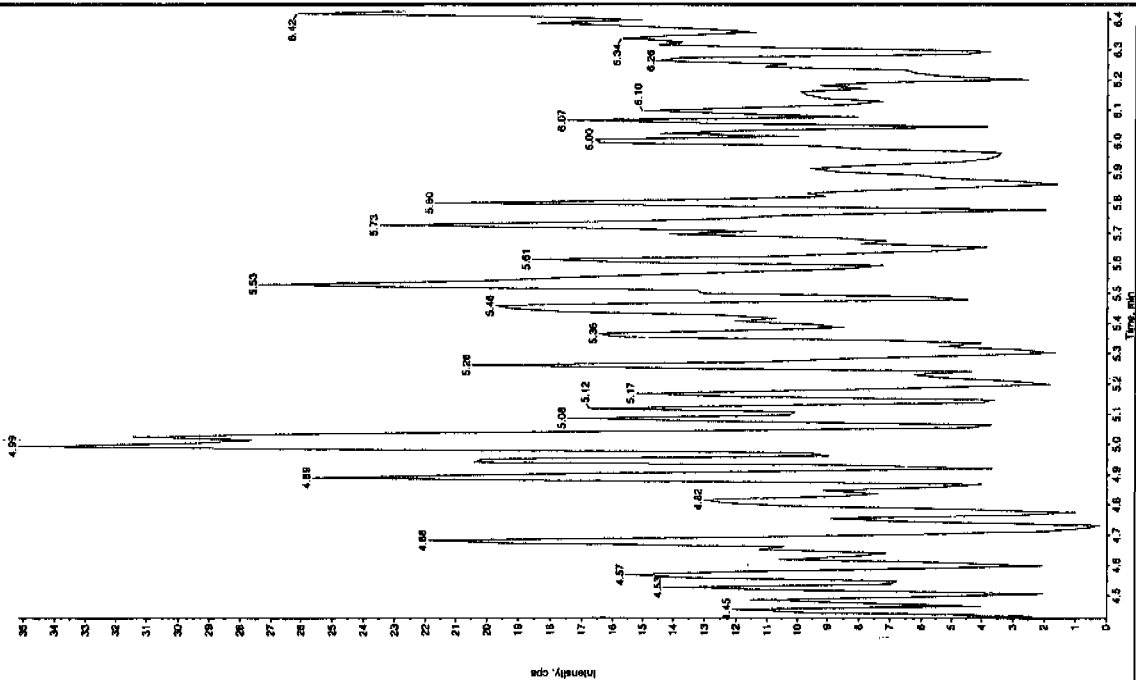
Sample Name: "XIBLK05" Sample ID: "11ER" File: "EXS020035.wif"
 Peak Name: "Indo-cisyl phosphole" Mass(es): 369.191.0 amu
 Comment: "LCMSEXP_B" Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: 87.3 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12/22/13 AM
 Acq. Time: 12:22:53 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.67e+004 counts
 Height: 14161.798 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBLK05" Sample ID: "11ER" File: "EXS020035.wif"
 Peak Name: "24-Diamino-6-methylidene" Mass(es): 186.045.0 amu
 Comment: "LCMSEXP_B" Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010
 Acq. Date: 12/22/13 AM
 Acq. Time: 12:22:53 AM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 23-MAR-10 01:10

GEL Data File: EXS03220039.wiff

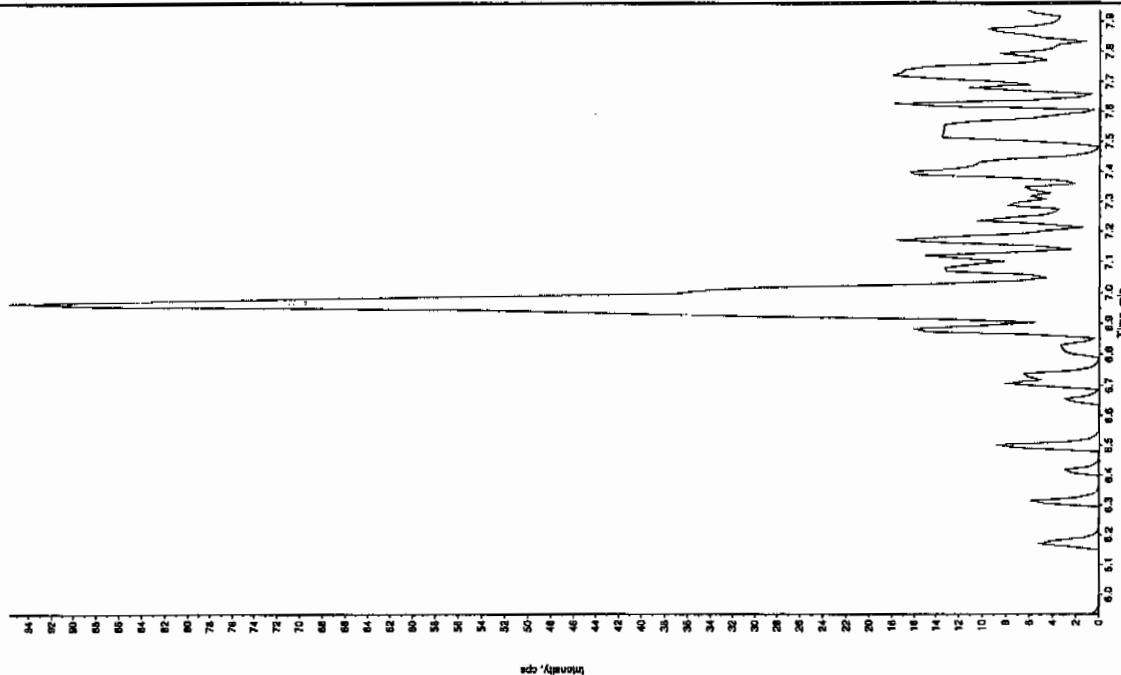
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

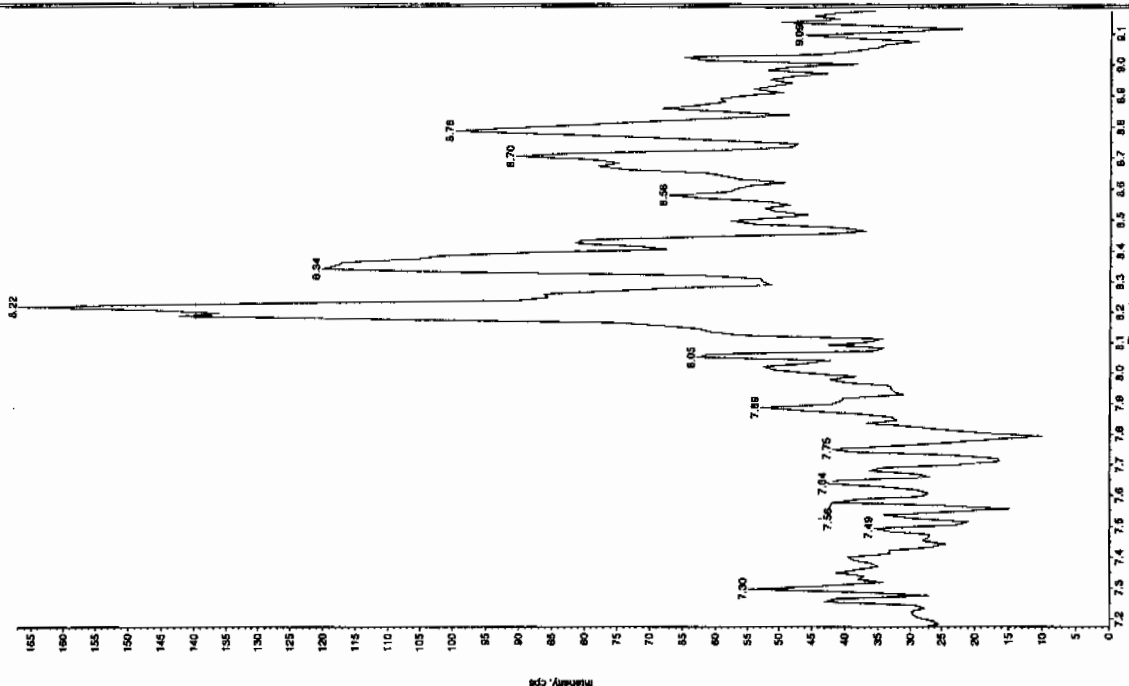
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	4.63
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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Sample Name: "XIBLK06" Sample ID: "TILLER" File: "EXS03220038.wiff"
 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: 1:10:01 AM
 Modified: No



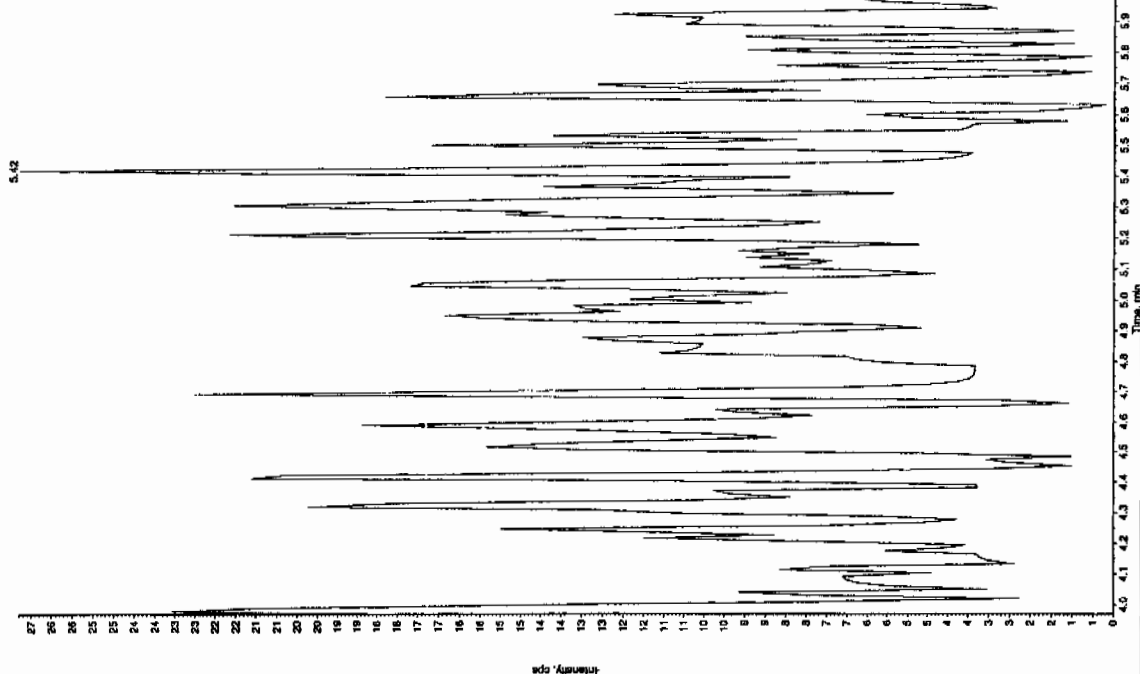
Sample Name: "XIBLK06" Sample ID: "TILLER" File: "EXS03220038.wiff"
 Peak Name: "35-Dinitrobenzine" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: No



Jan 03/29/10

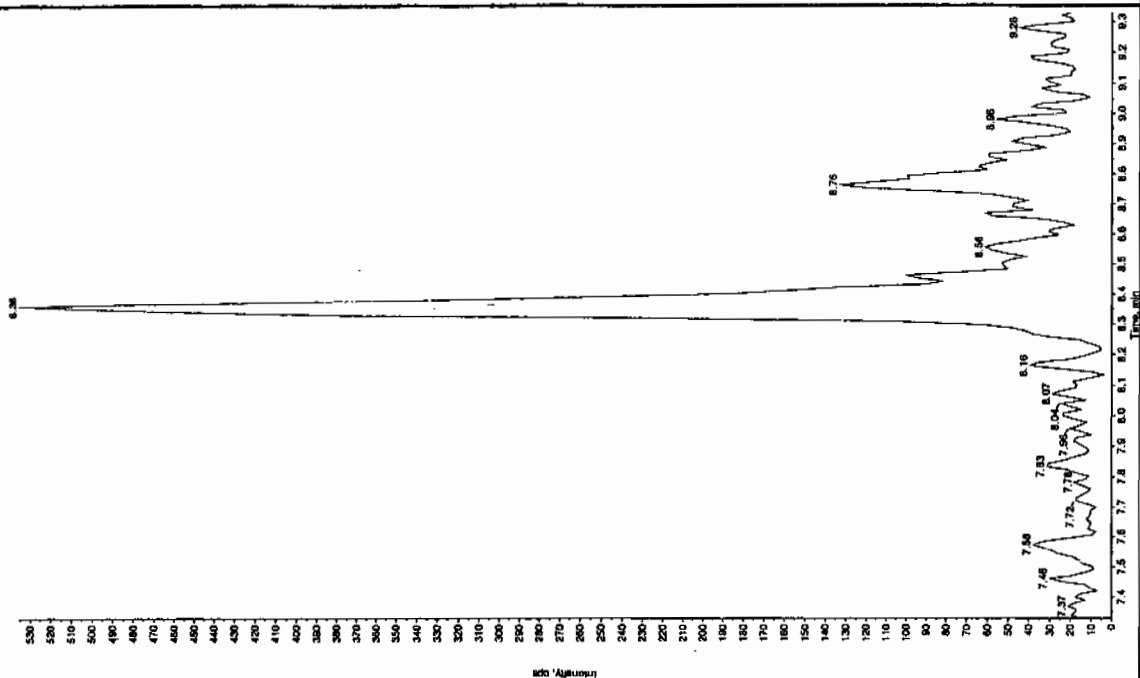
Sample Name: "XIBU08" Sample ID: "11LER" File: "EX303220039.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

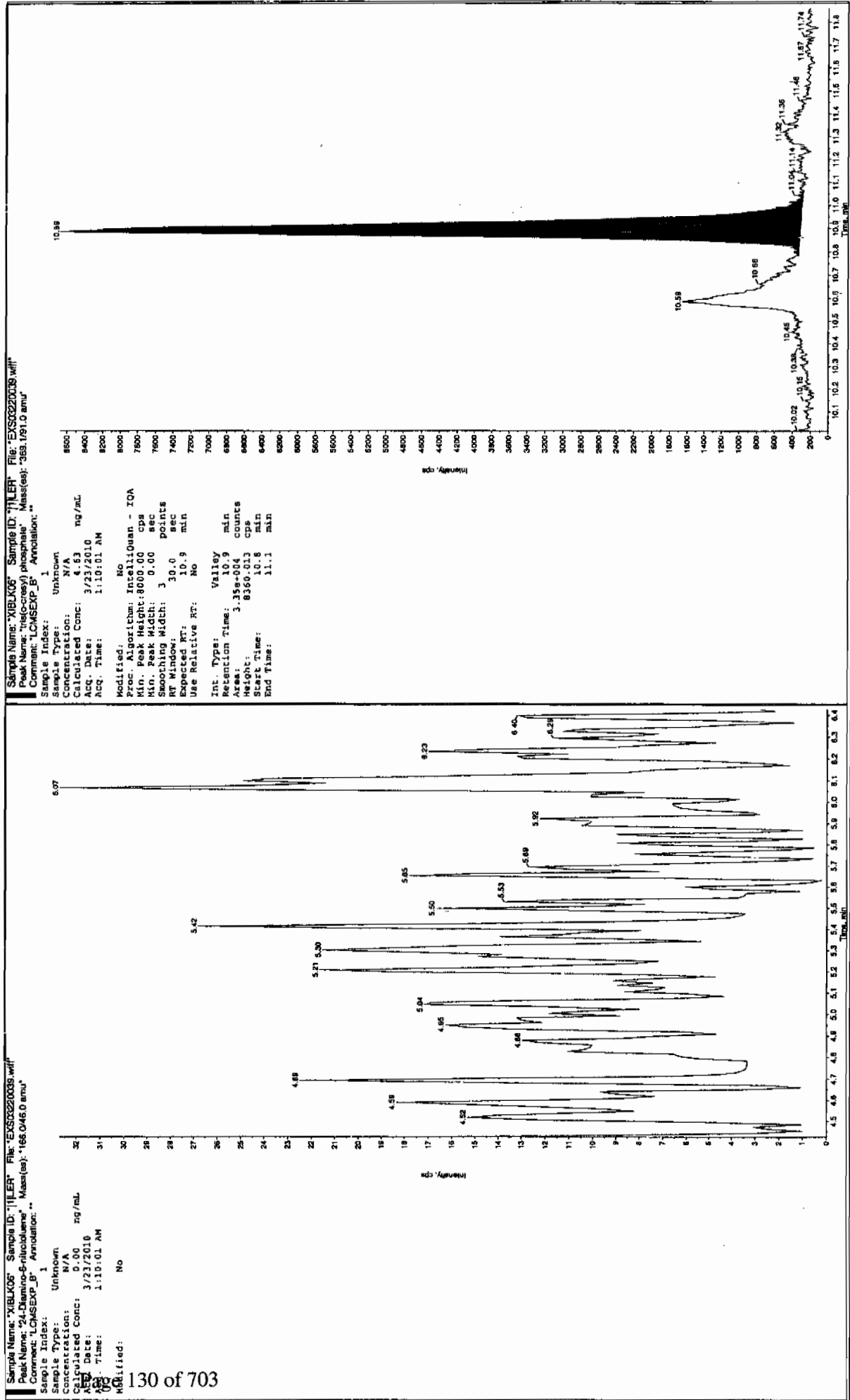
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:10:01 AM
 Modified: No



Sample Name: "XIBU08" Sample ID: "11LER" File: "EX303220039.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 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





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 23-MAR-10 03:47

GEL Data File: EXS03220049.wiff

Instrument ID: LCMSMS

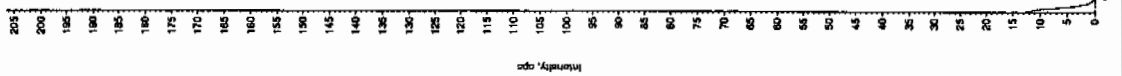
Column: Phenomenex Ultracarb 5u ODS(20)

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

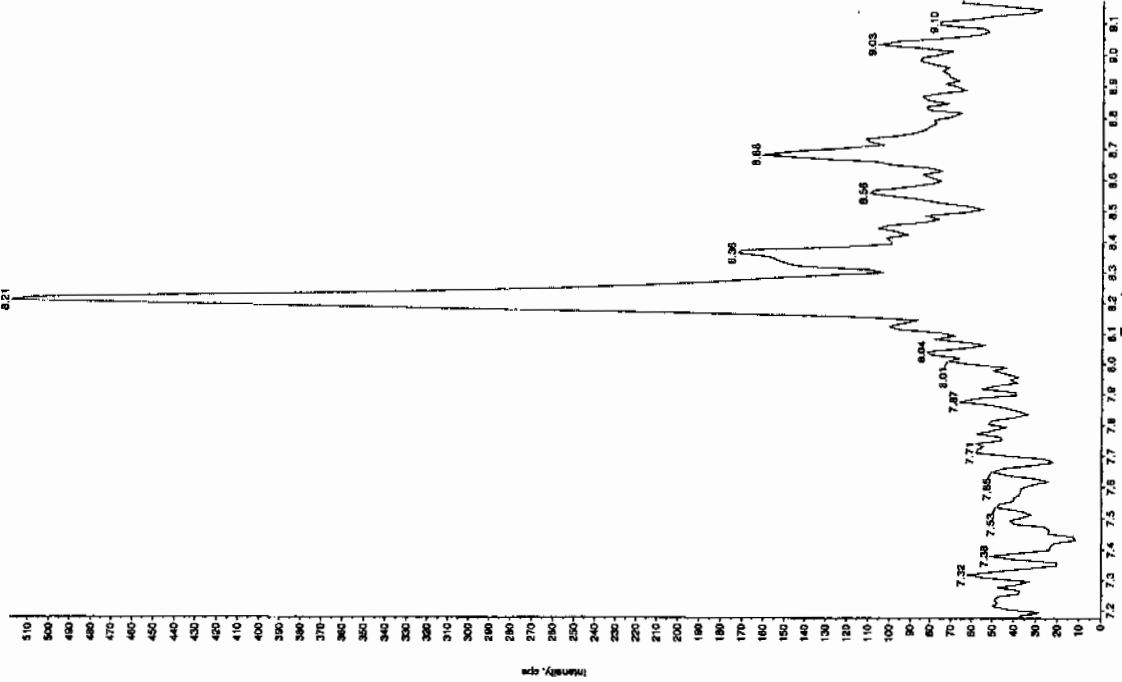
Sample Name: 'XBLU07' Sample ID: '1111ER' File: 'EXS03221049.wif'
 Peak Name: '1111ER' Mass(es): '257.2204.9 amu'
 Comment: 'LCMS EXP_B' Annotation: ''

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



Sample Name: 'XBLU07' Sample ID: '1111ER' File: 'EXS03220048.wif'
 Peak Name: '1111ER' Mass(es): '182.046.0 amu'
 Comment: 'LCMS EXP_B' Annotation: ''

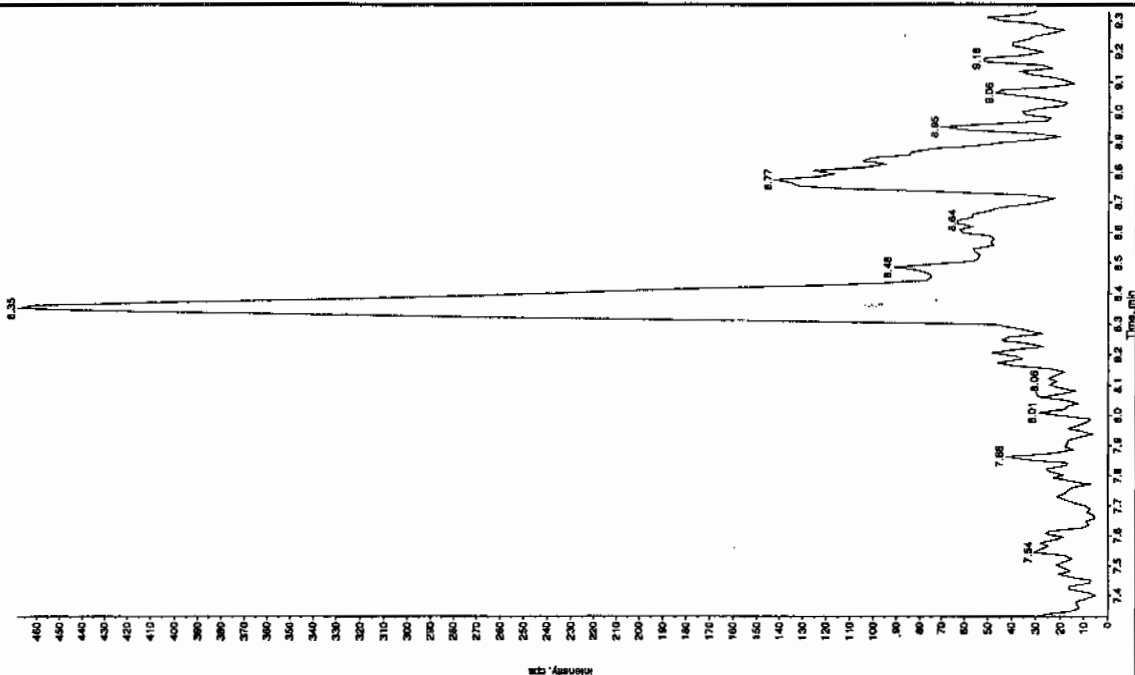
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:47:13 AM
 Modified: No



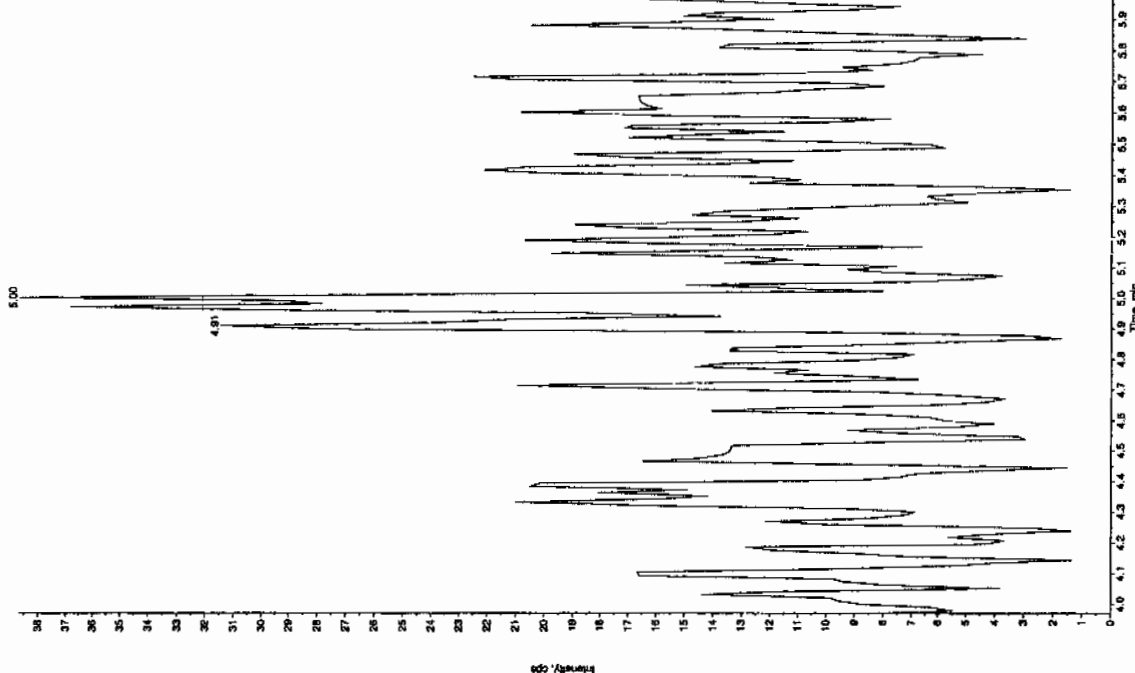
See 3/29/10

Sample Name: "XBLK07" Sample ID: "T1LER" File: "EX503220049.wif"
 Peak Name: "26-Diamino-4-silicic acid" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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

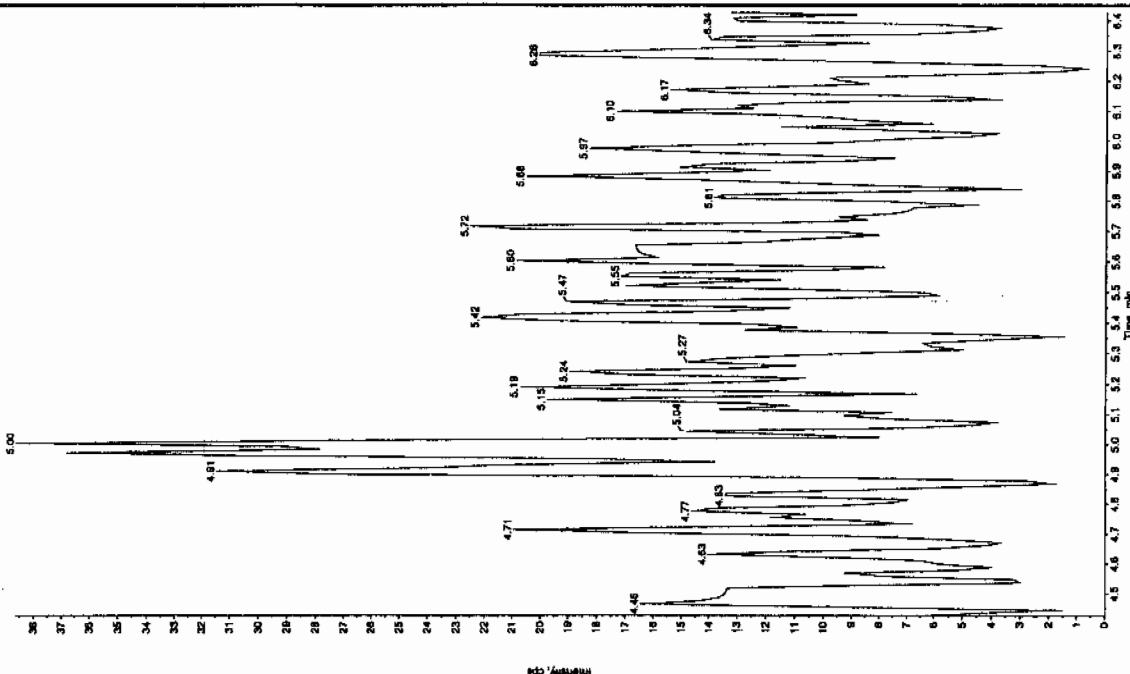


Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 3/23/2010
 Acq. Time: 3:47:13 AM
 Modified: No



Sample Name: "XIBUK07" Sample ID: "111ER" File: "EXS0220048.wif"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "355.1/91.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 7.45 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:47:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.61e+004 counts
 Height: 18226.908 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBUK07" Sample ID: "111ER" File: "EXS0220048.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 23-MAR-10 06:24

GEL Data File: EXS03220059.wiff

Instrument ID: LCMSMS

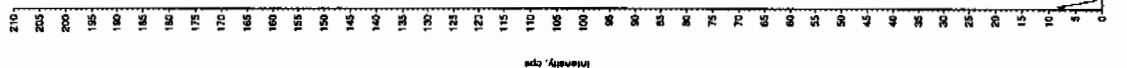
Column: Phenomenex Ultracarb 5u ODS(20)

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

San 3/27/10

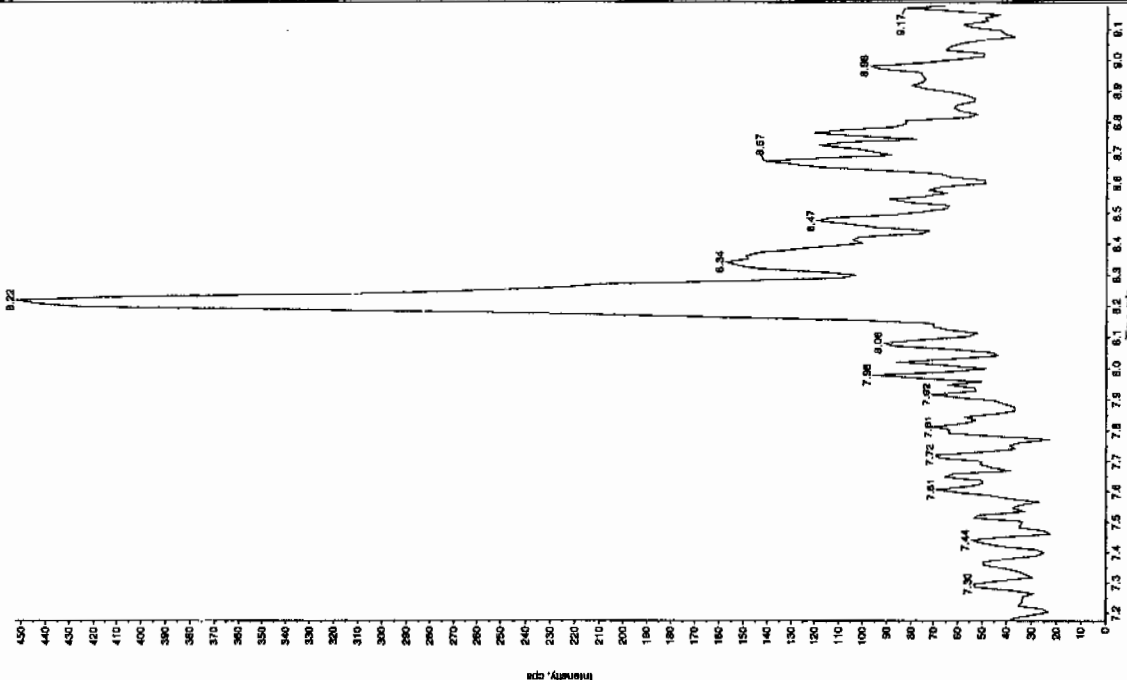
Sample Name: 'XBLK08' Sample ID: 'JLIER' File: 'EXS0320059.wif'
Peak Name: 'TATB' Mass(es): '257.2204.9 amu'
Comment: 'LCMSXP_B' Annotation: ''

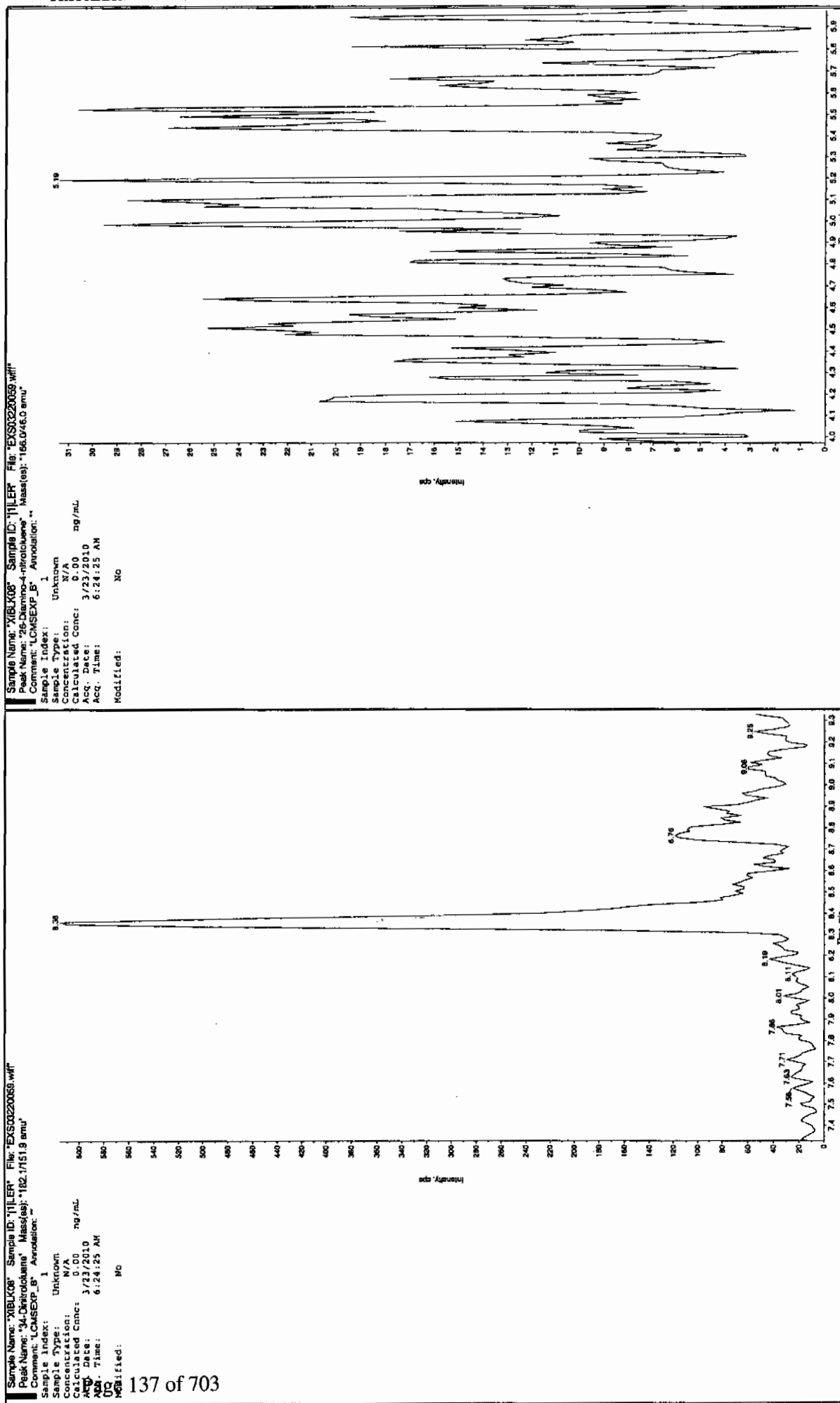
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 6:24:25 AM
Modified: No



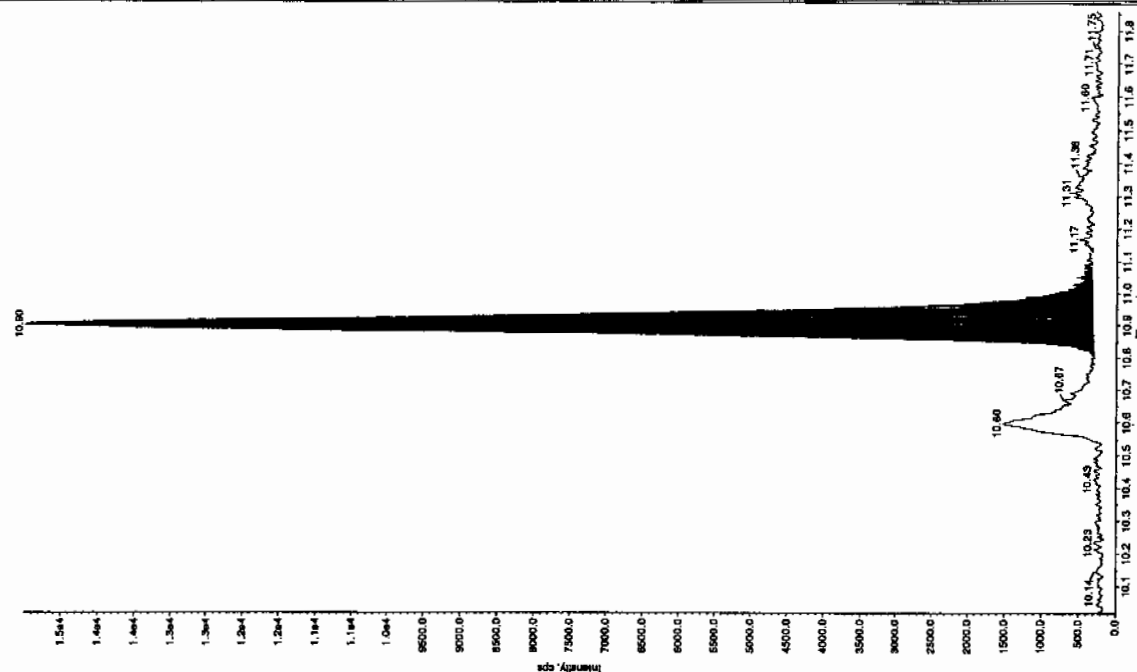
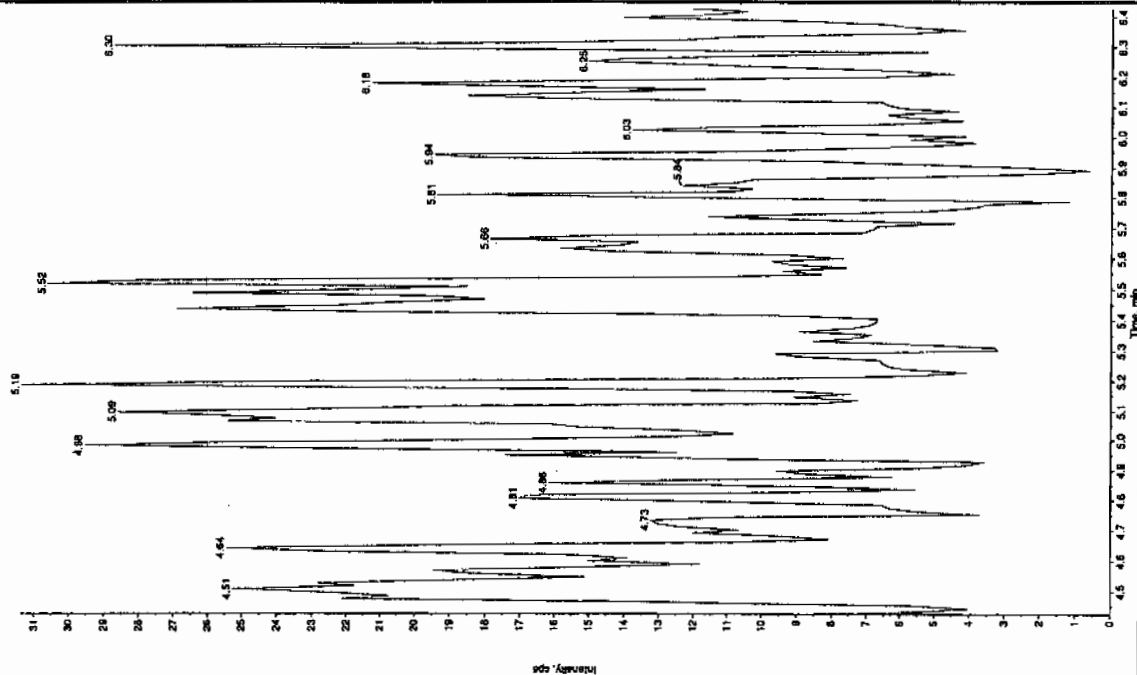
Sample Name: 'XBLK08' Sample ID: 'JLIER' File: 'EXS0320059.wif'
Peak Name: '3S-Dinitroaniline' Mass(es): '182.0460 amu'
Comment: 'LCMSXP_B' Annotation: ''

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: "XIBU08" Sample ID: "HLR" File: "XS0502200509.nit"
Peak Name: "tri(n-octyl) phosphate" Mass(es): "388.191.0 amu"
Comment: "LCMSEXP_B" Annotation:
Sample Index: 1 Unknown
Concentration: N/A
Calculated Conc: 6.69 ng/mL
Acq. Date: 3/23/2010
Time: 6:24:25 AM



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 23-MAR-10 09:48

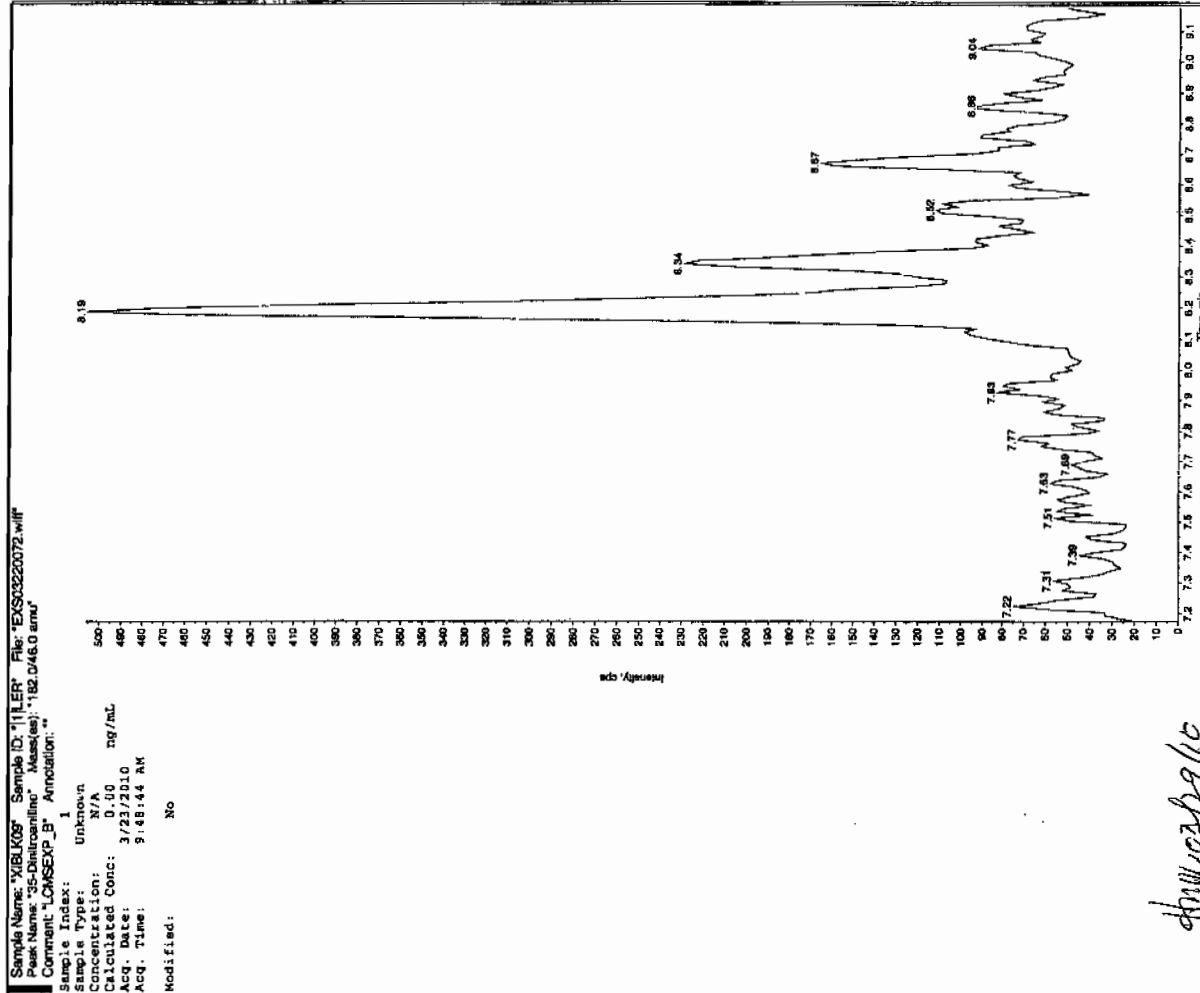
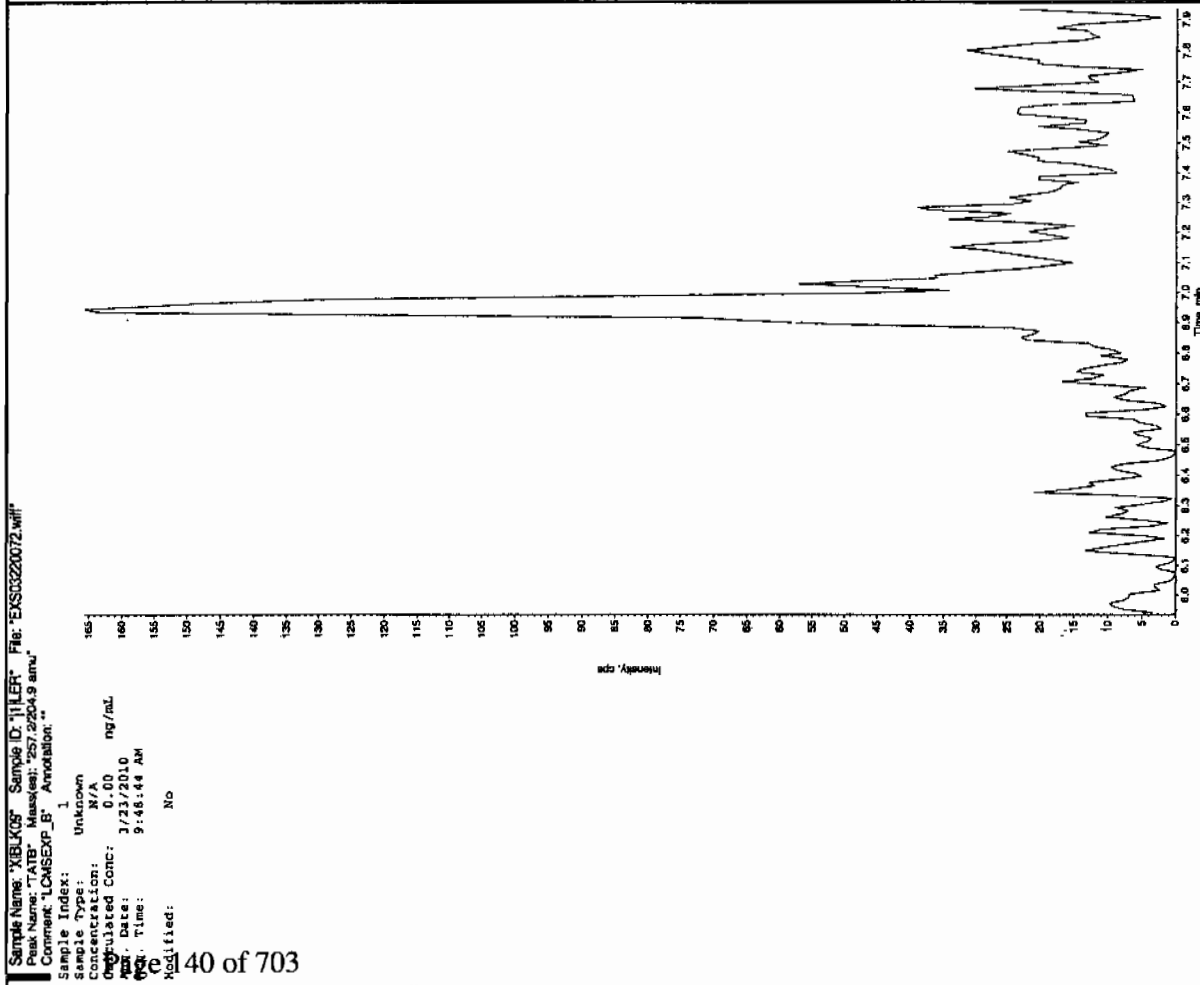
GEL Data File: EXS03220072.wiff

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

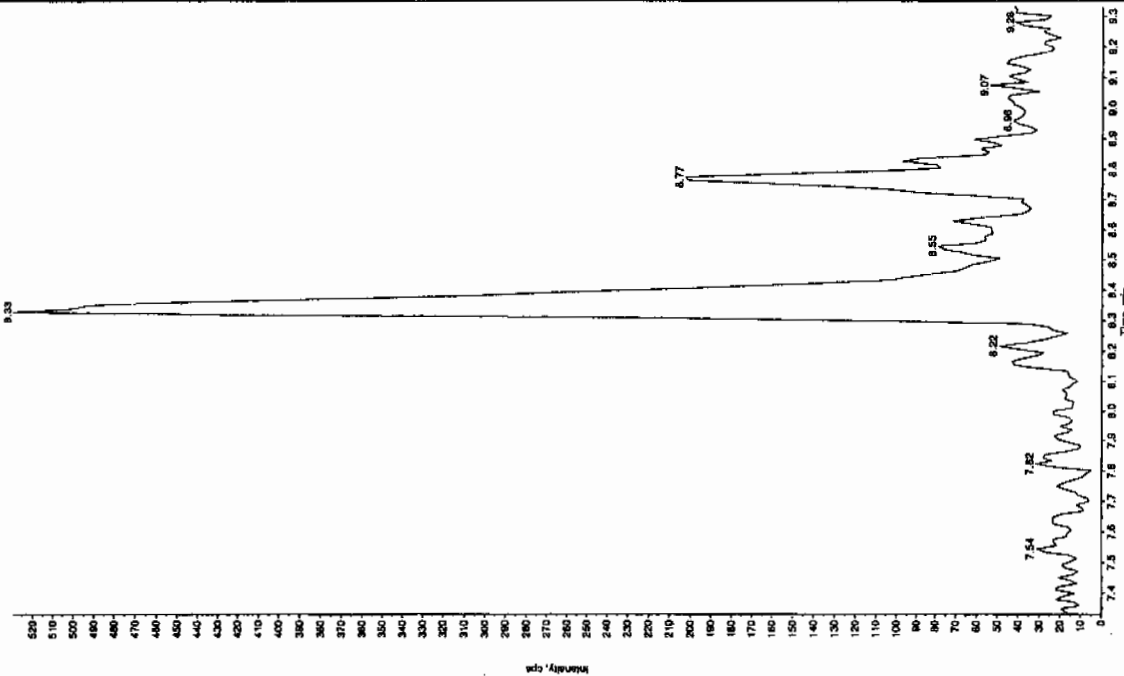
San 3/27/10



dmwcpa10

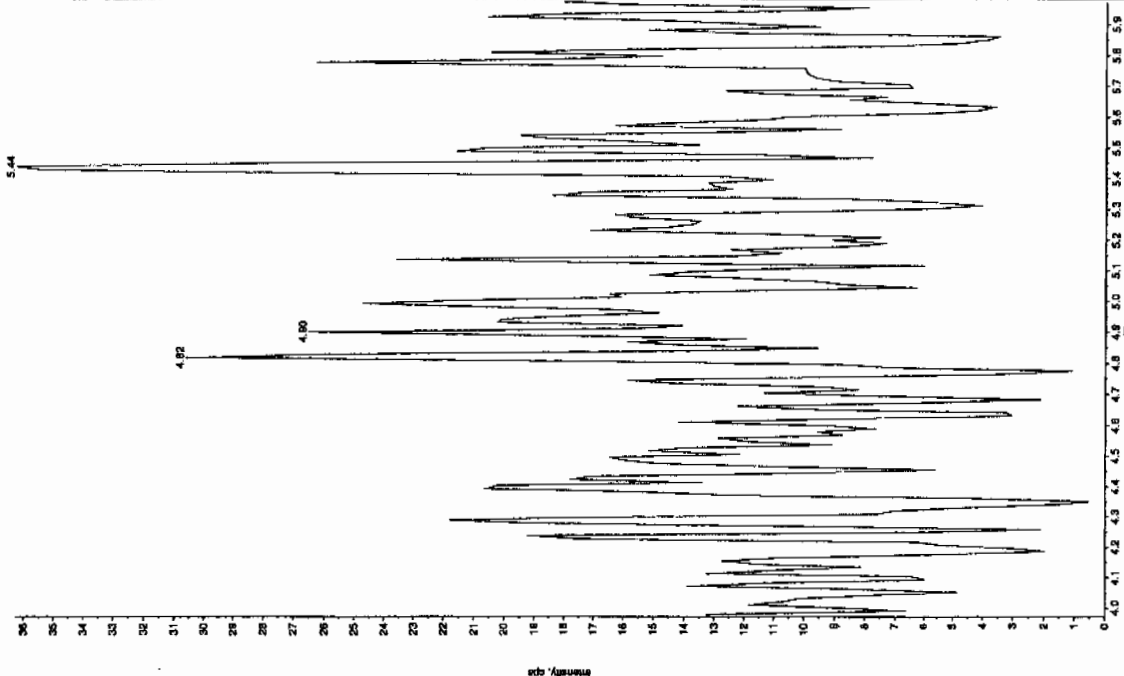
Sample Name: "XBLK09" Sample ID: "111ER" File: "EXS03220072.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



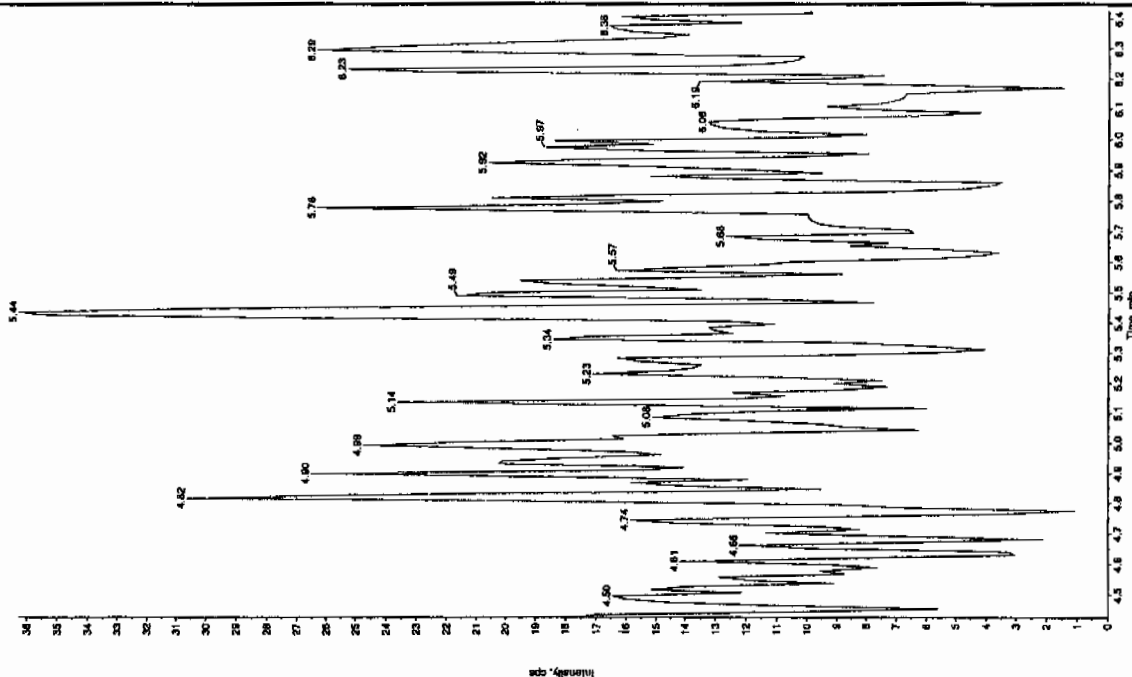
Sample Name: "XBLK09" Sample ID: "111ER" File: "EXS03220072.wif"
 Peak Name: "25-Dinitro-4-nitrofluorene" Mass(es): "186.0/168.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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: "XIBLK09" Sample ID: "HILLER" File: "EXS03220072.wif"
 Peak Name: "24-Diamino-6-nitrocholine" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

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



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 23-MAR-10 13:13

GEL Data File: EXS03220085.wiff

Instrument ID: LCMSMS

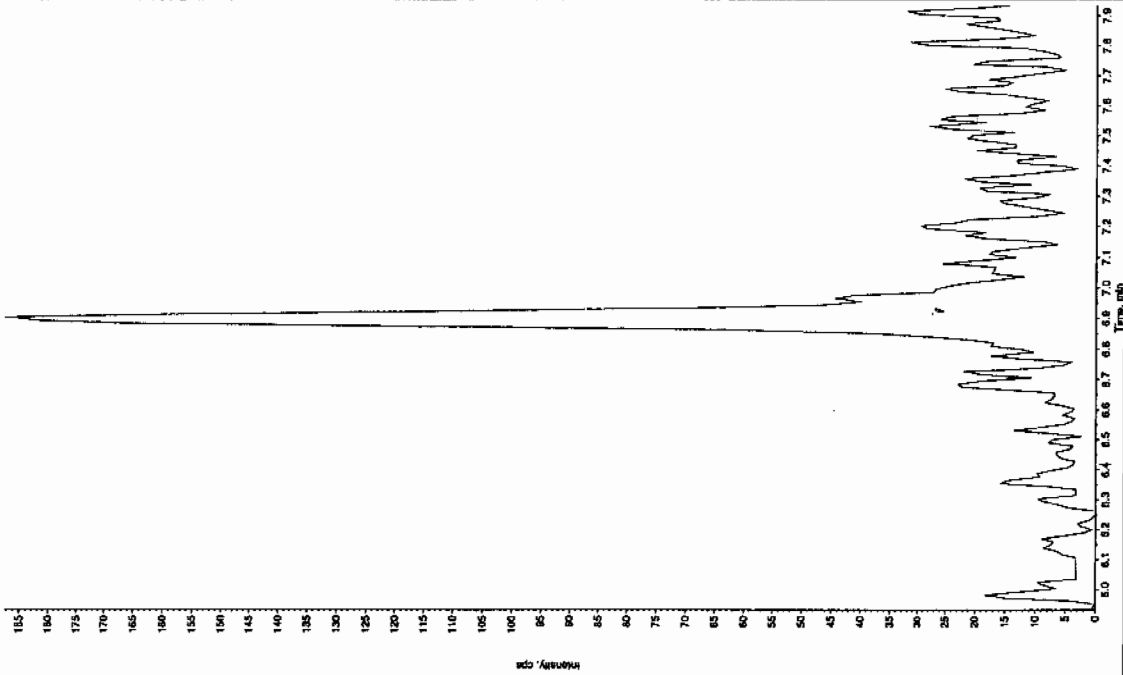
Column: Phenomenex Ultracarb 5u ODS(20)

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 31/2/10

Sample Name: "XIBLK10" Sample ID: "JILBR" File: "EX503220085.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

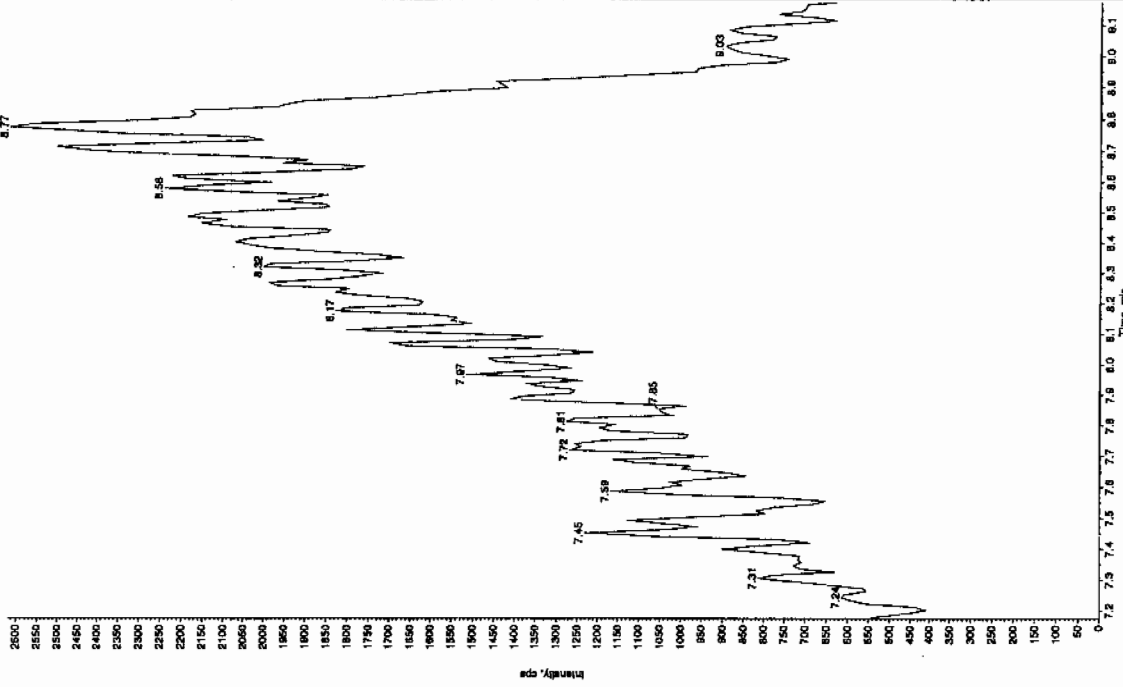
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:13:43 PM
Modified: No



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

Sample Name: "XIBLK10" Sample ID: "JILBR" File: "EX503220085.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

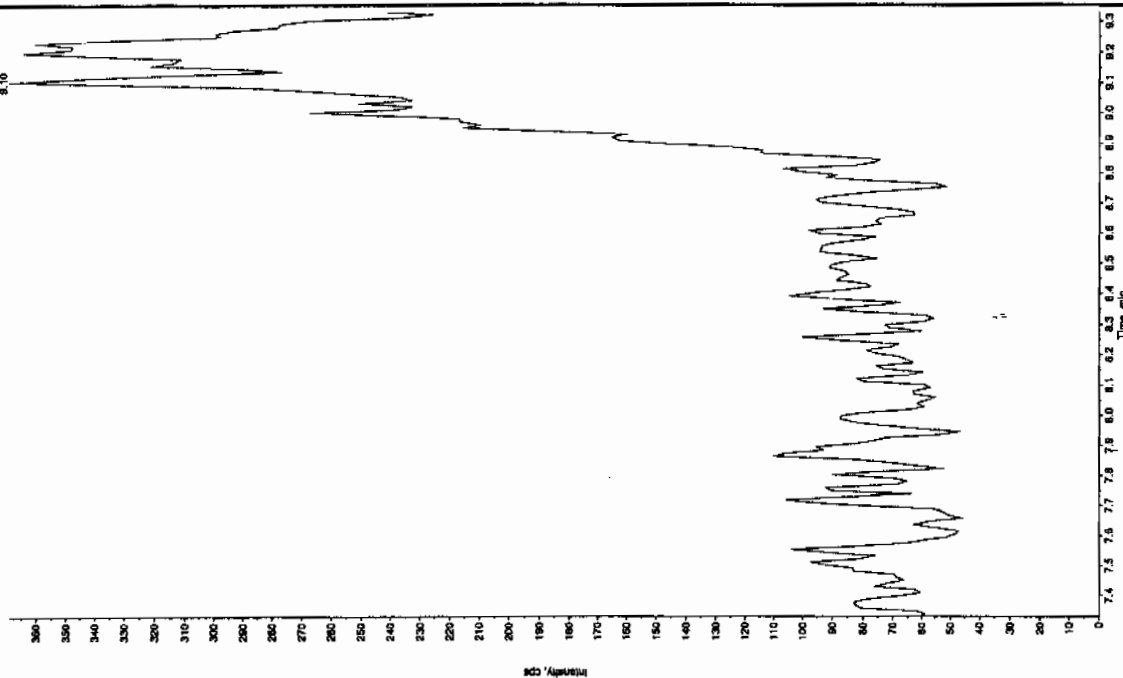
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/23/2010
Acq. Time: 1:13:43 PM
Modified: No



Jan 31/2/10

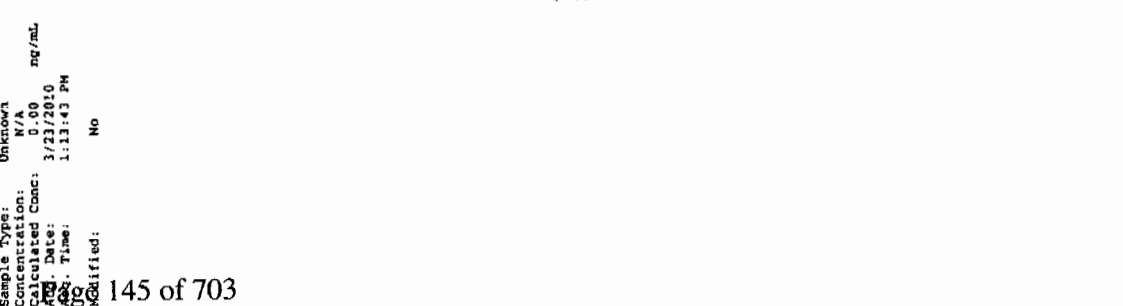
Sample Name: "XBLK10" Sample ID: "HILLER" File: "EXS03220055.wif"
 Peak Name: "29-Dimethoxy-4-methylphenol" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:13:43 PM
 Modified: NO



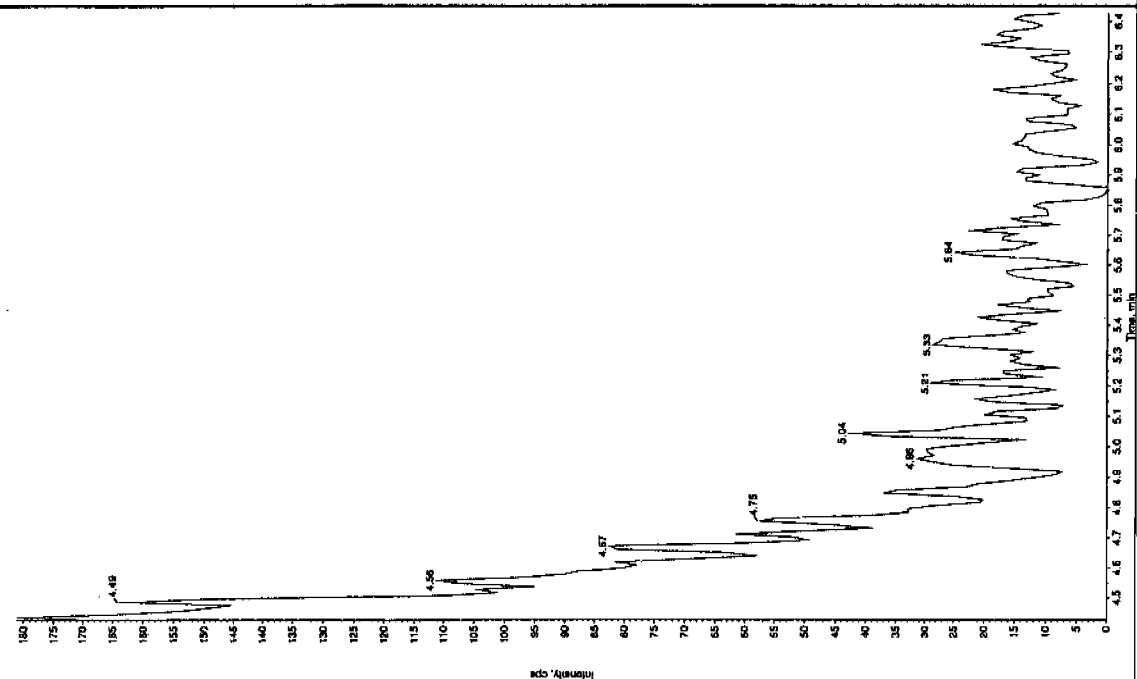
Sample Name: "XBLK10" Sample ID: "HILLER" File: "EXS03220055.wif"
 Peak Name: "29-Dimethoxy-4-methylphenol" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:13:43 PM
 Modified: NO



Sample Name: "XIBLK10" Sample ID: "HILER" File: "EX903220065.wif"
 Peak Name: "Tri(n-octyl) phosphate" Mass(es): "368.1/91.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 5.12 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:13:43 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: 10.8 min
 Area: 5.27e+004 counts
 Height: 12831.207 cps
 Start Time: 10.7 min
 End Time: 11.0 min



Sample Name: "XIBLK10" Sample ID: "HILER" File: "EX903220065.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2009

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

Jan 3/27/10

Sample Name: 'XBLK11' Sample ID: '11LER' File: 'EXS0320092.wif'

Peak Name: 'TATB' Mass(es): '237.2204.9 amu'

Comment: 'LCMSEXP.B' Annotation: ''

Sample Index: 1

Sample Type: Unknown

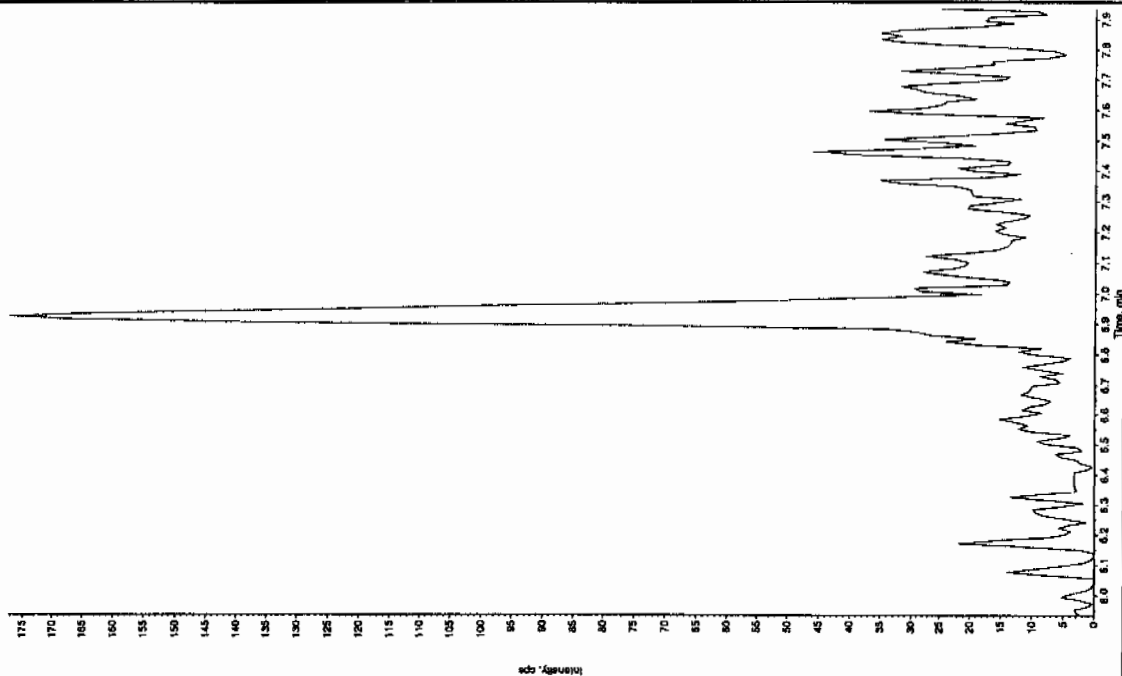
Concentration: 0.00 ng/mL

Calculated Conc: 3/23/2010

Acq. Date: 3/05:06 PM

Acq. Time: 3/05:06 PM

Modified: No



Sample Name: 'XBLK11' Sample ID: '11LER' File: 'EXS0320092.wif'

Peak Name: '35-Dinitroanthracene' Mass(es): '182.046.0 amu'

Comment: 'LCMSEXP.B' Annotation: ''

Sample Index: 1

Sample Type: Unknown

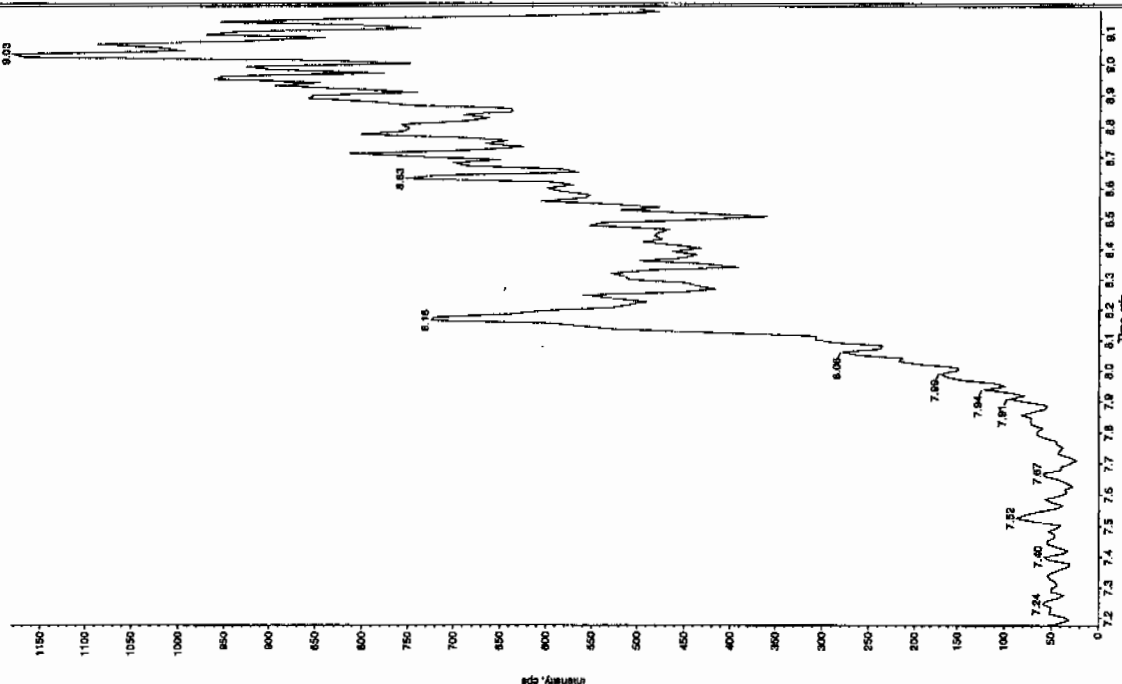
Concentration: N/A ng/mL

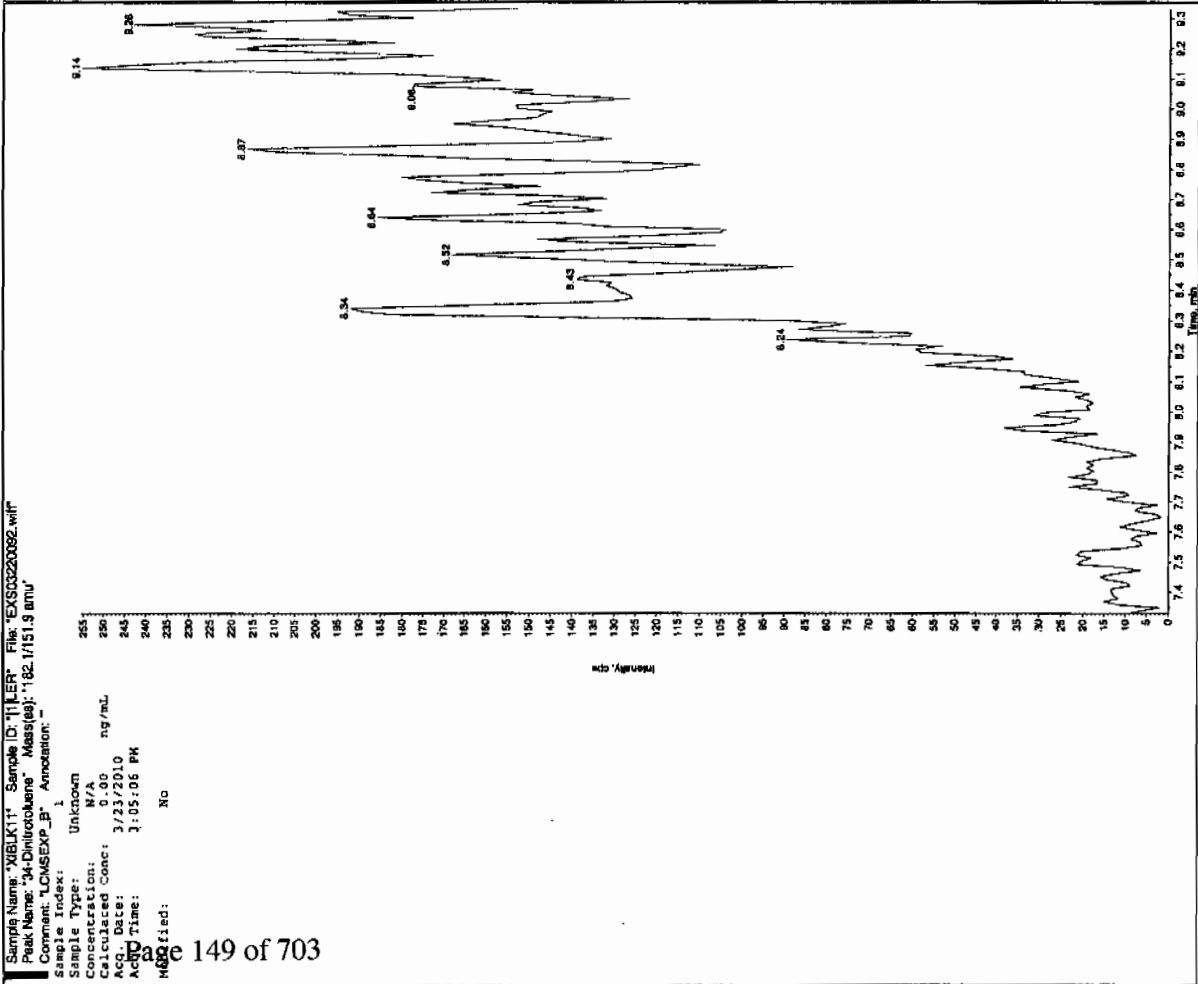
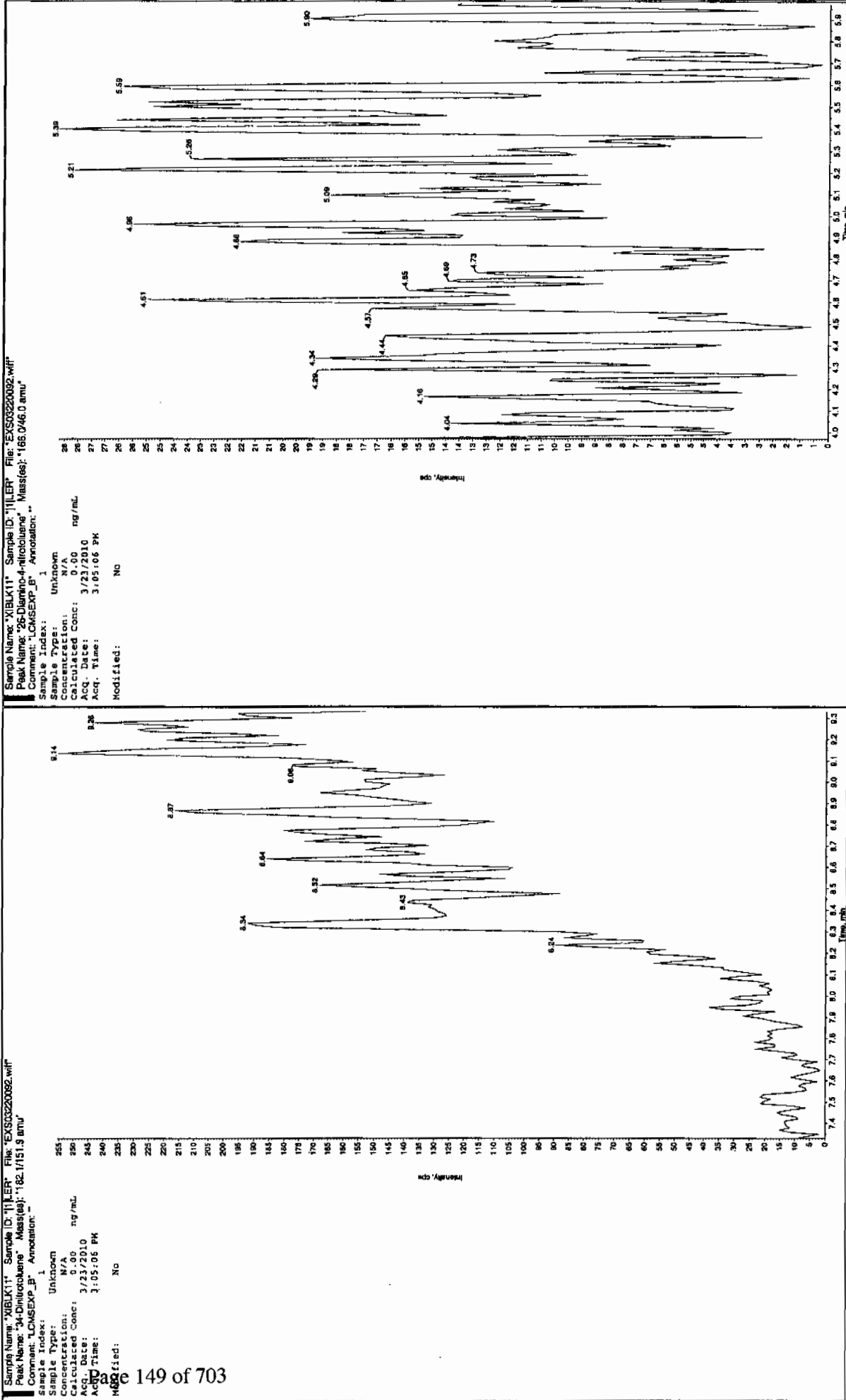
Calculated Conc: 3/23/2010

Acq. Date: 3/05:06 PM

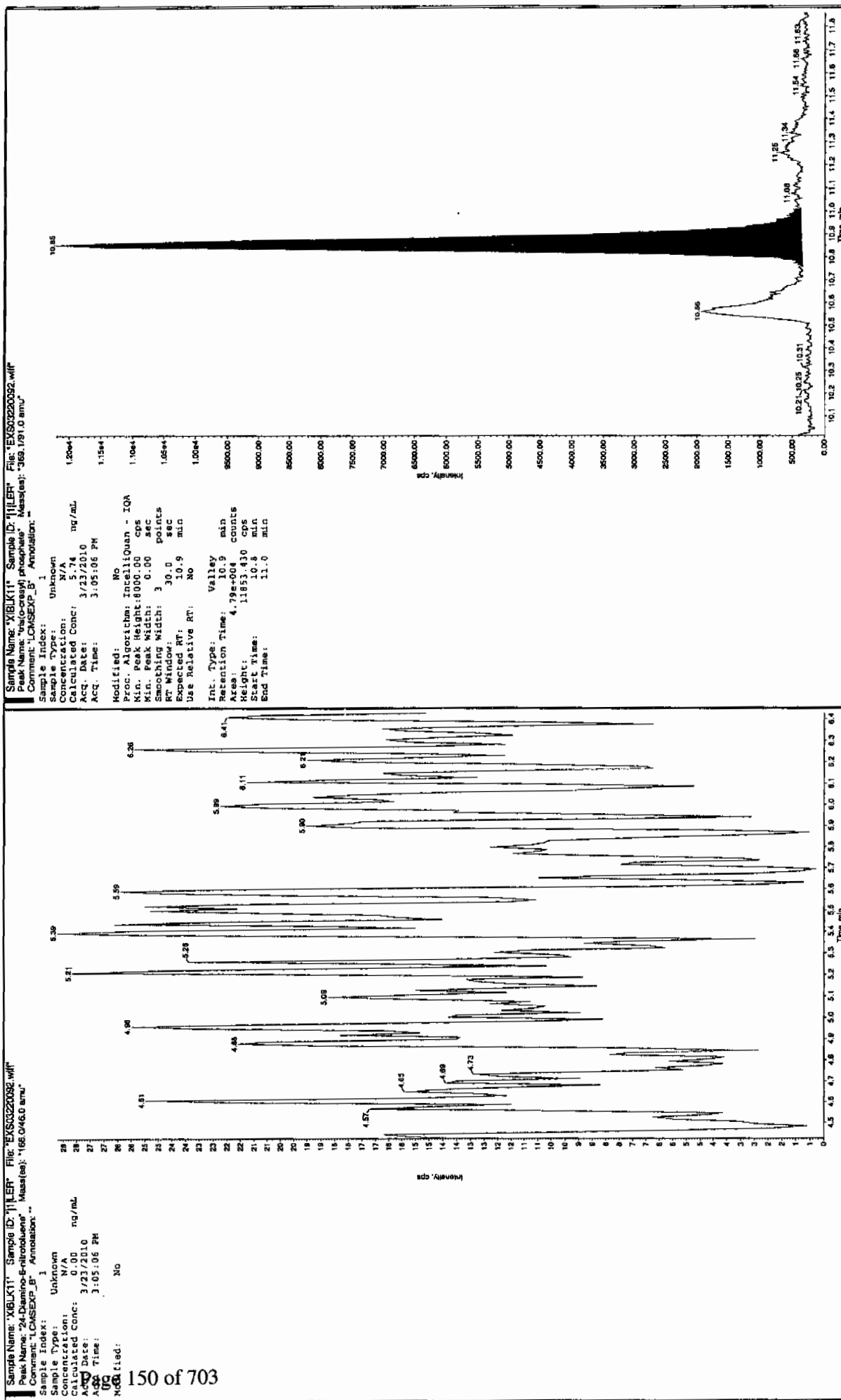
Acq. Time: 3/05:06 PM

Modified: No





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



Nairb.ref

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

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

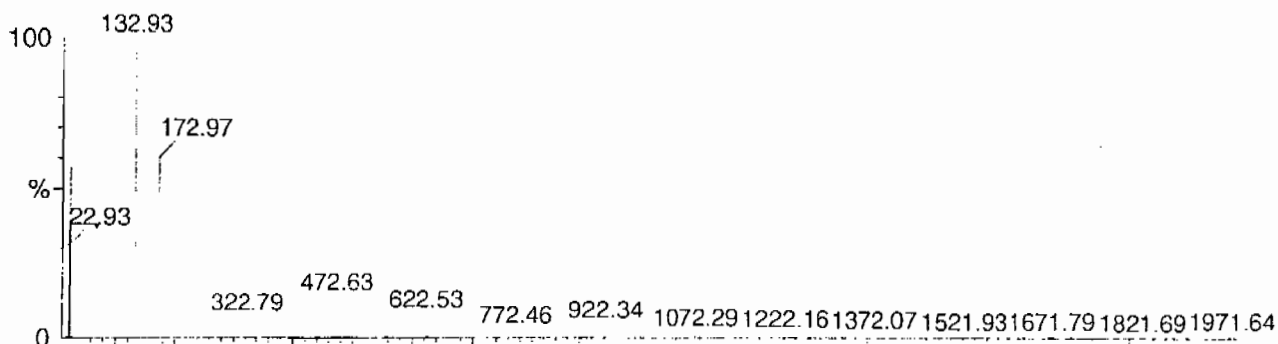
Calibration Report - MS1 Static

Page 1 of 1

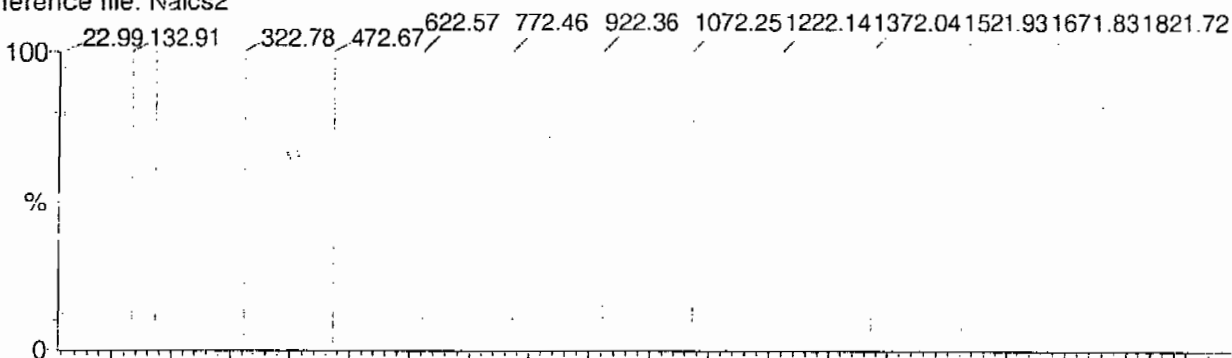
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

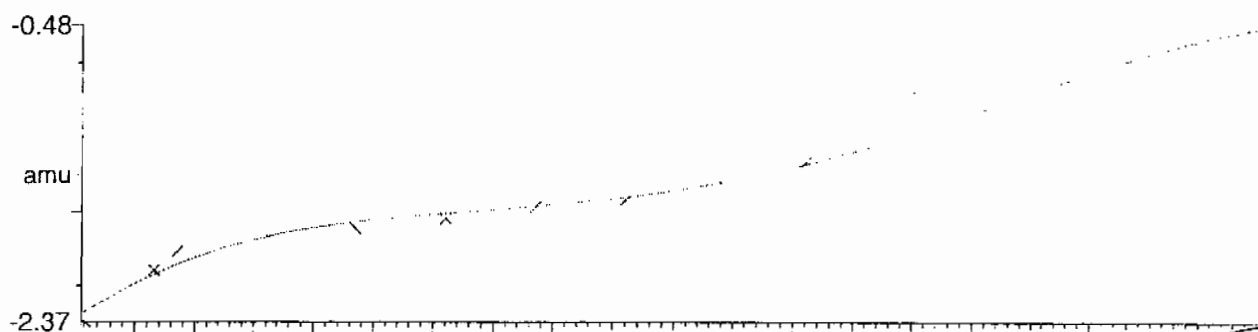
15 matches of 15 tested references



Reference file: Naics2

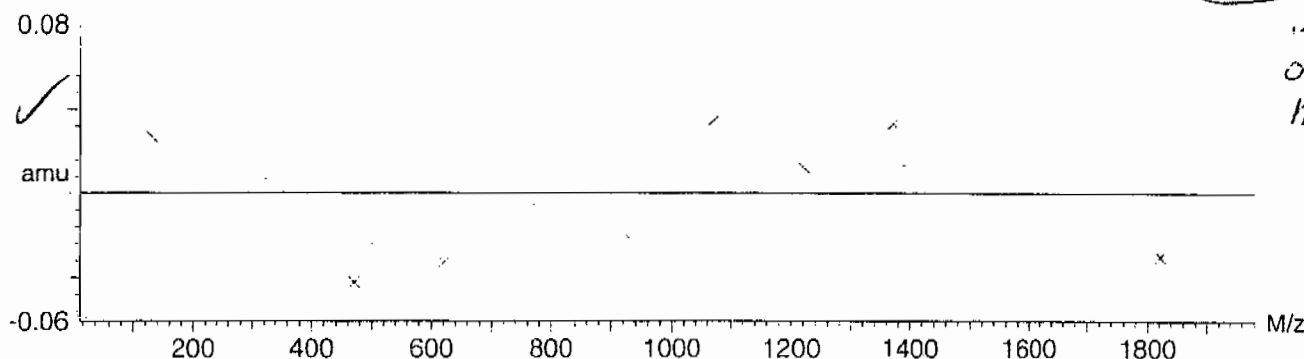


Mass difference (Raw - Ref mass)



Residuals

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



ok
m

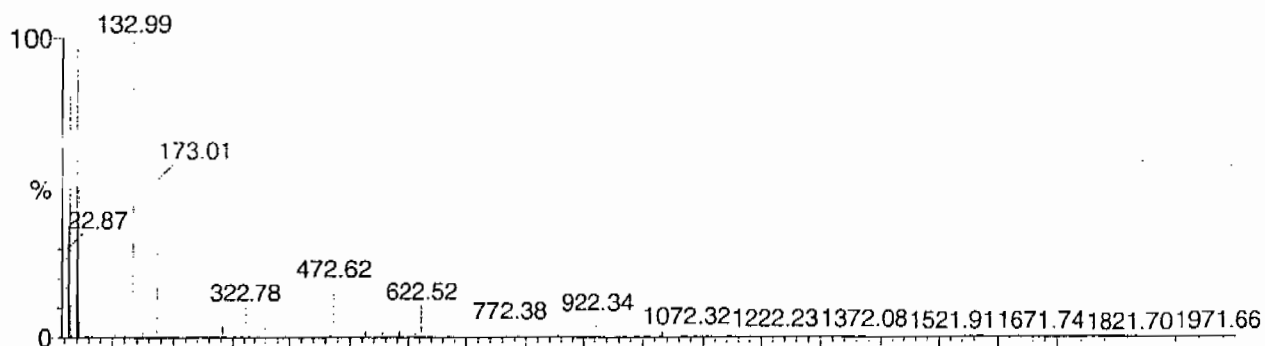
Calibration Report - MS1 Scanning

Page 1 of 1

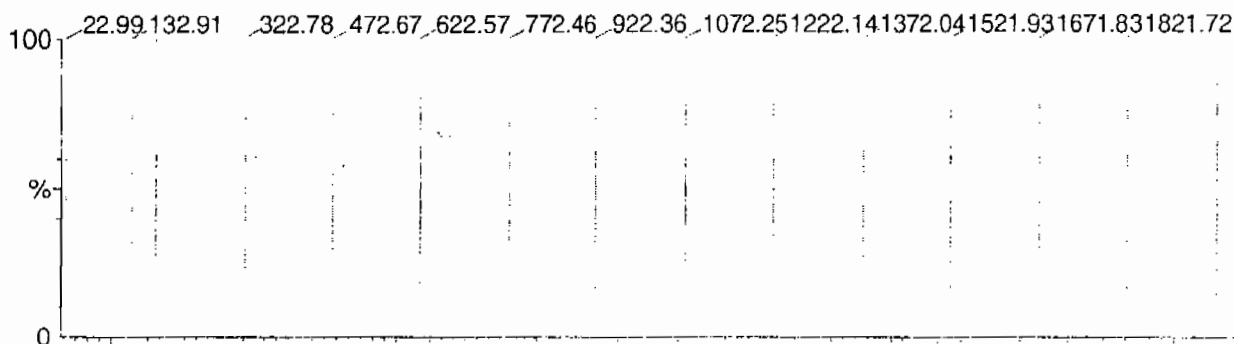
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

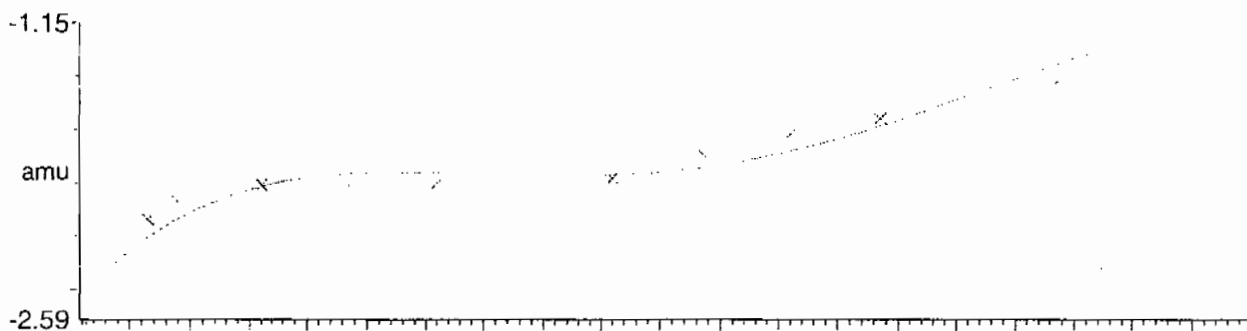
15 matches of 15 tested references



Reference file: Naics2

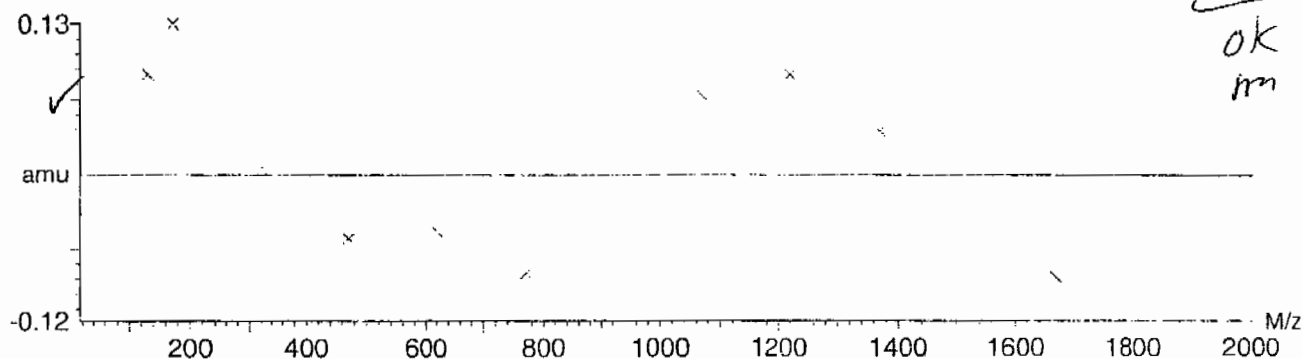


Mass difference (Raw - Ref mass)



Residuals

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



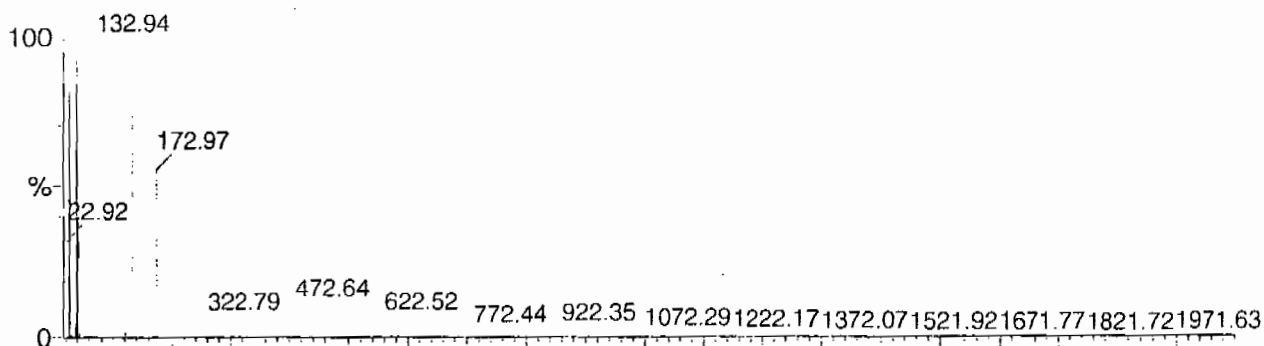
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

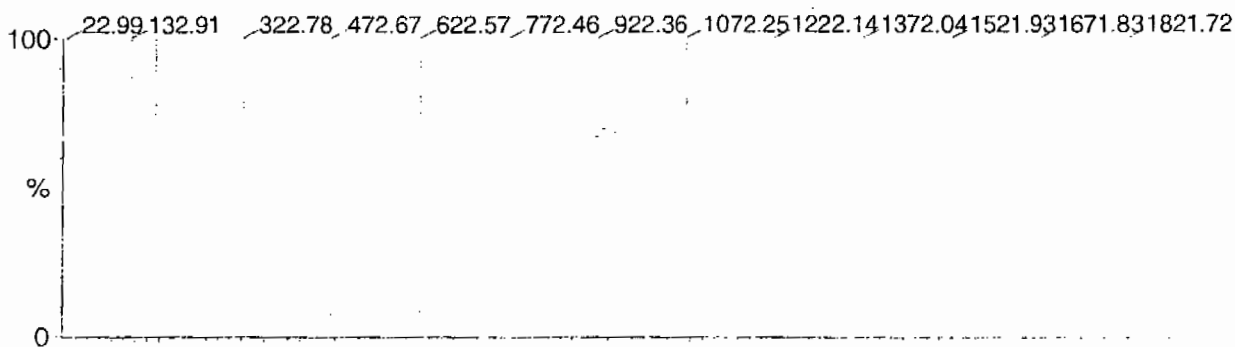
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

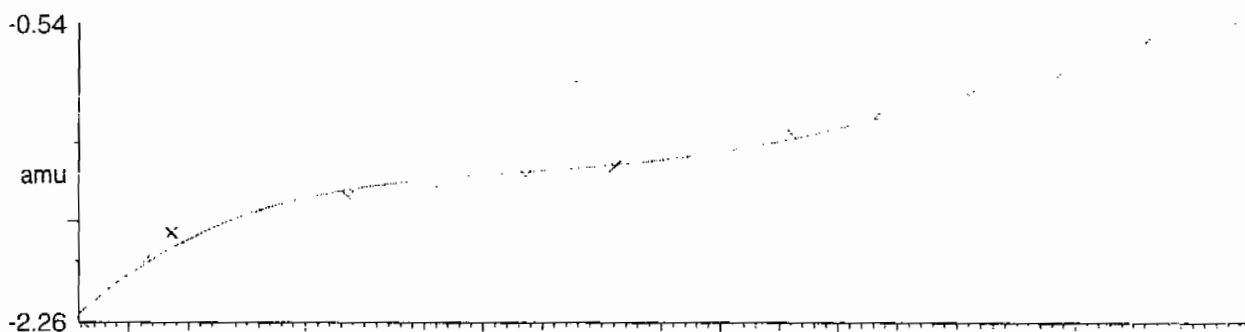
15 matches of 15 tested references



Reference file: Naics2

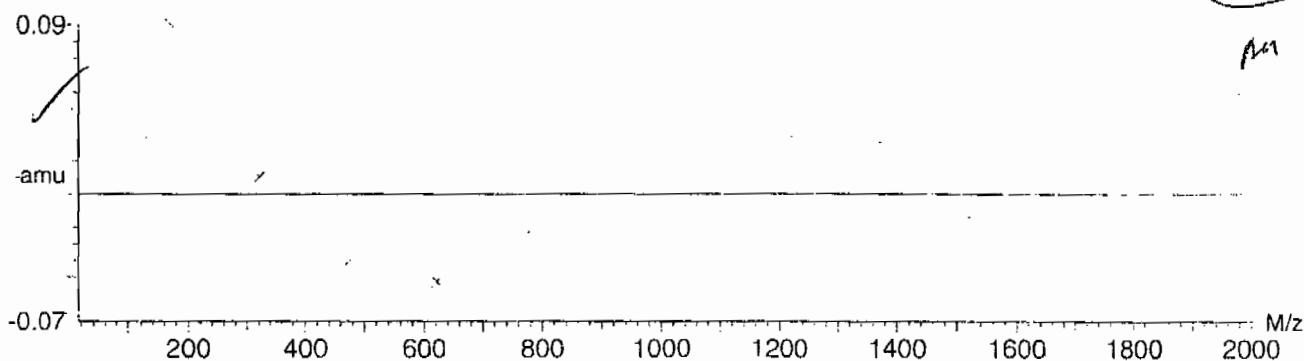


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639e-9 \pm 0.040487$



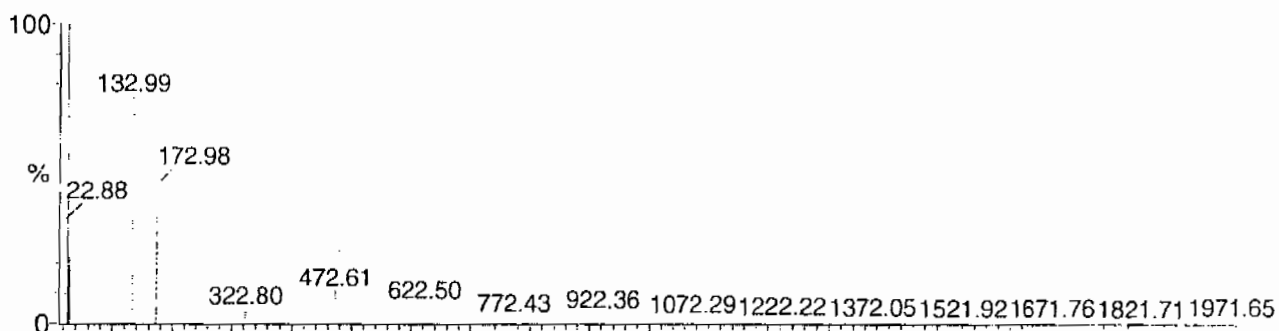
Calibration Report - MS2 Static

Page 1 of 1

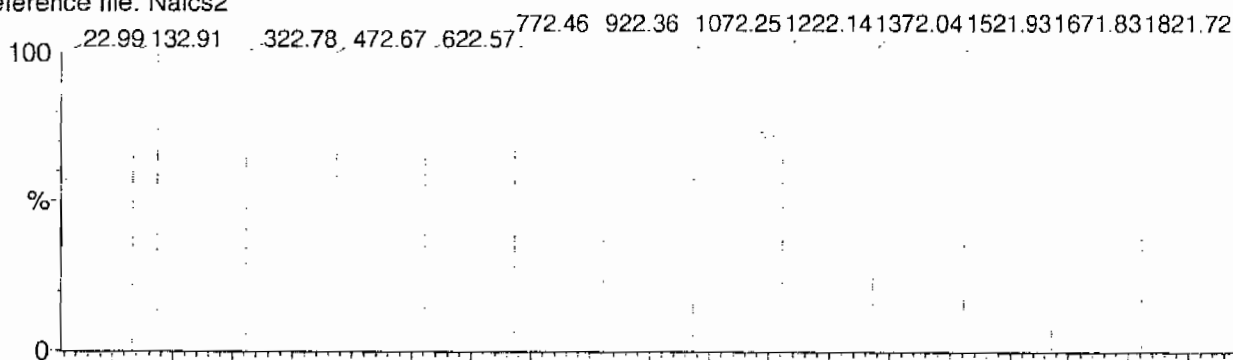
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

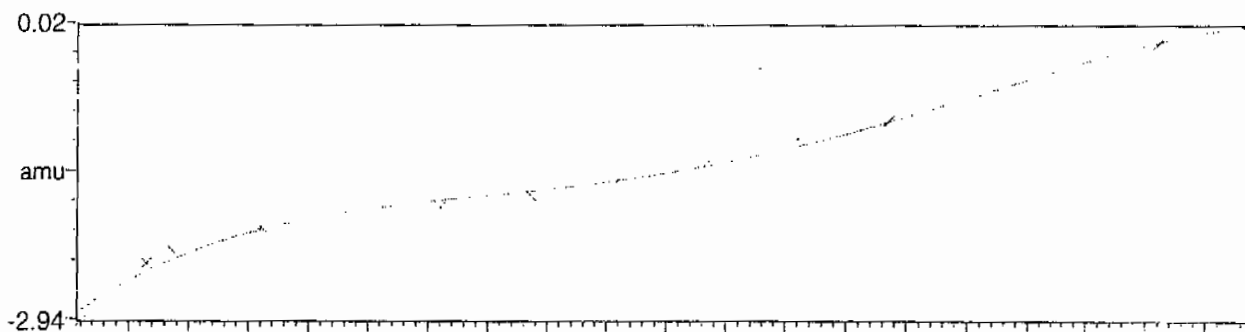
15 matches of 15 tested references



Reference file: Naics2

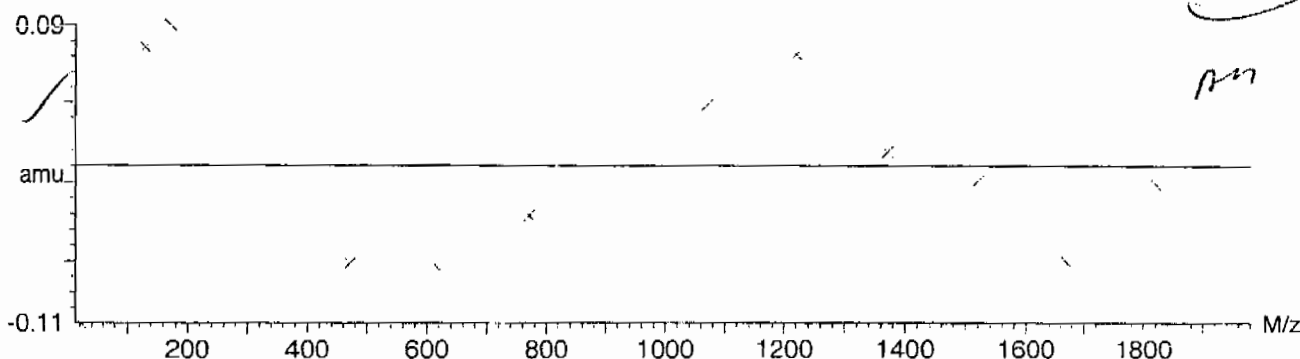


Mass difference (Raw - Ref mass)



Residuals

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



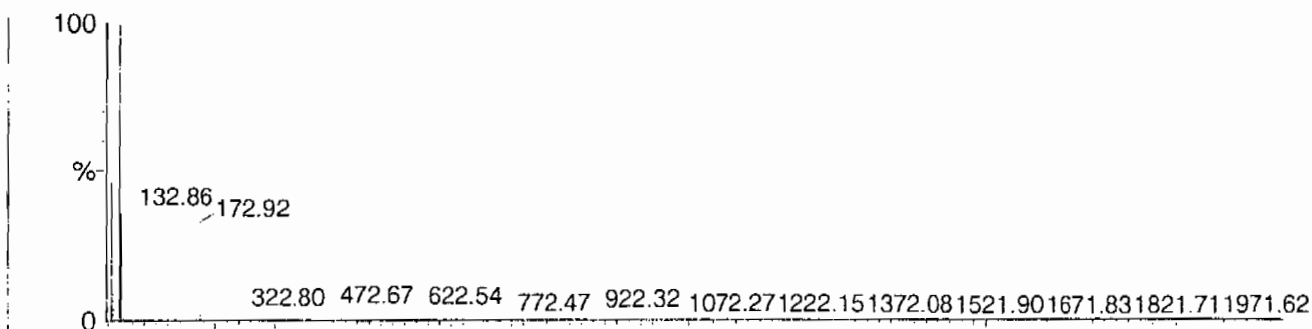
Calibration Report - MS2 Scanning

Page 1 of 1

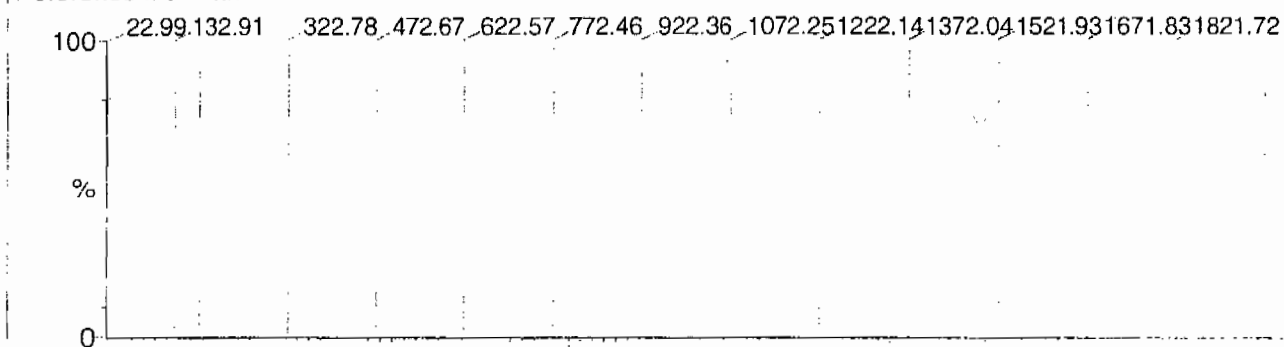
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

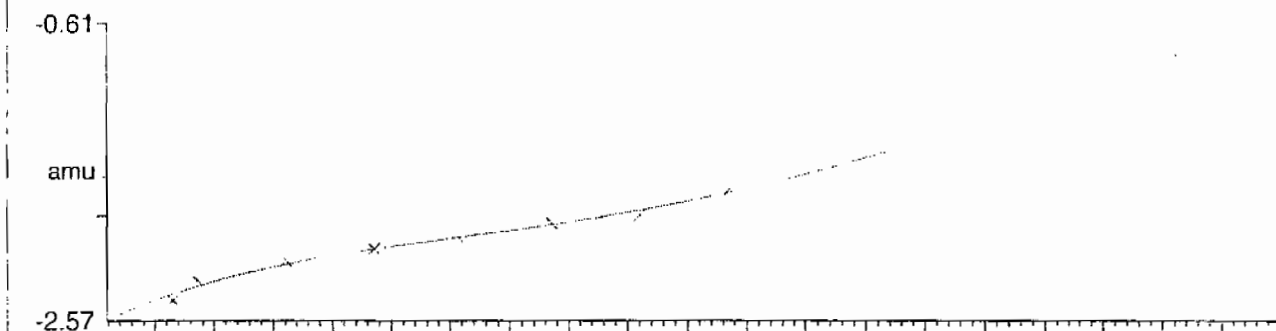
14 matches of 15 tested references



Reference file: Naics2

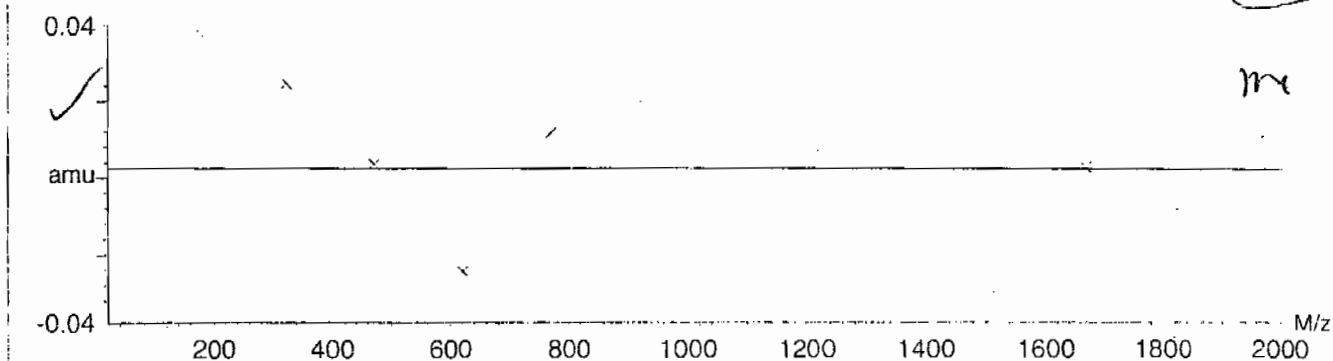


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502e-9 \pm 0.025622$



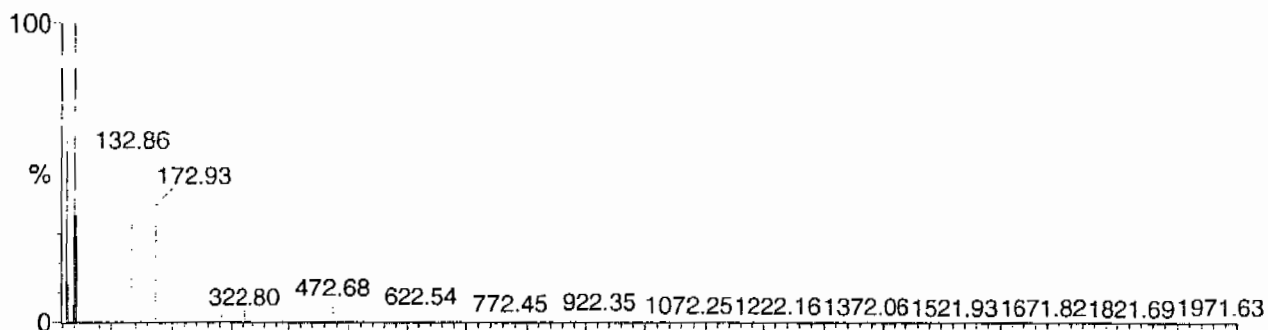
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

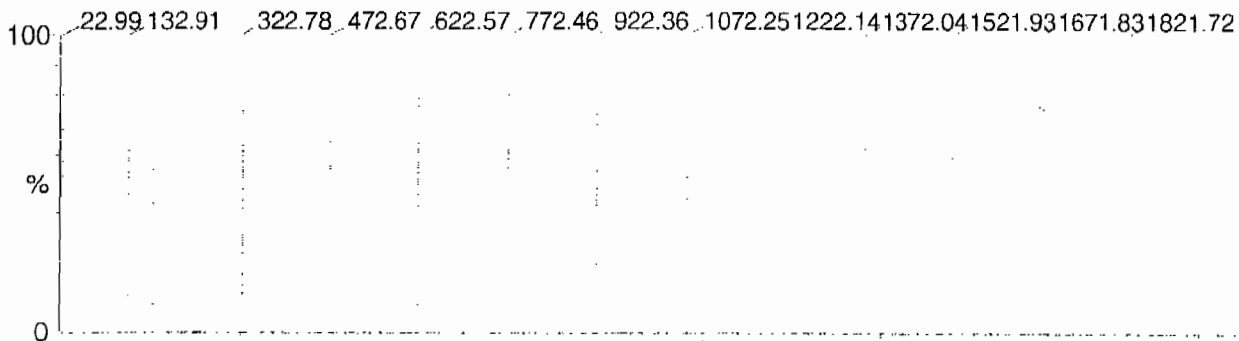
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

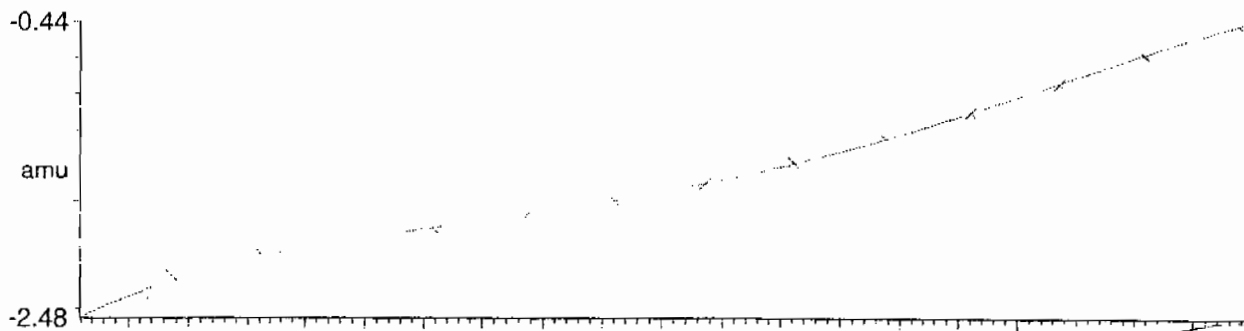
14 matches of 15 tested references



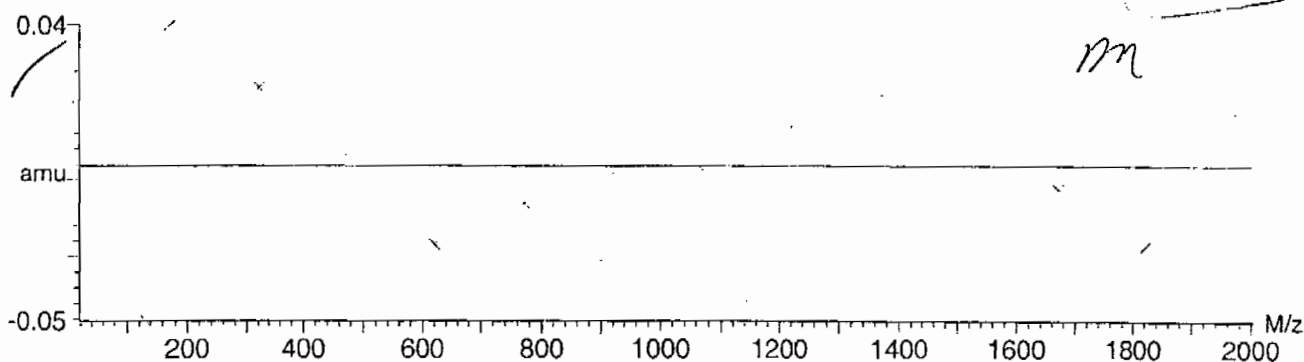
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals

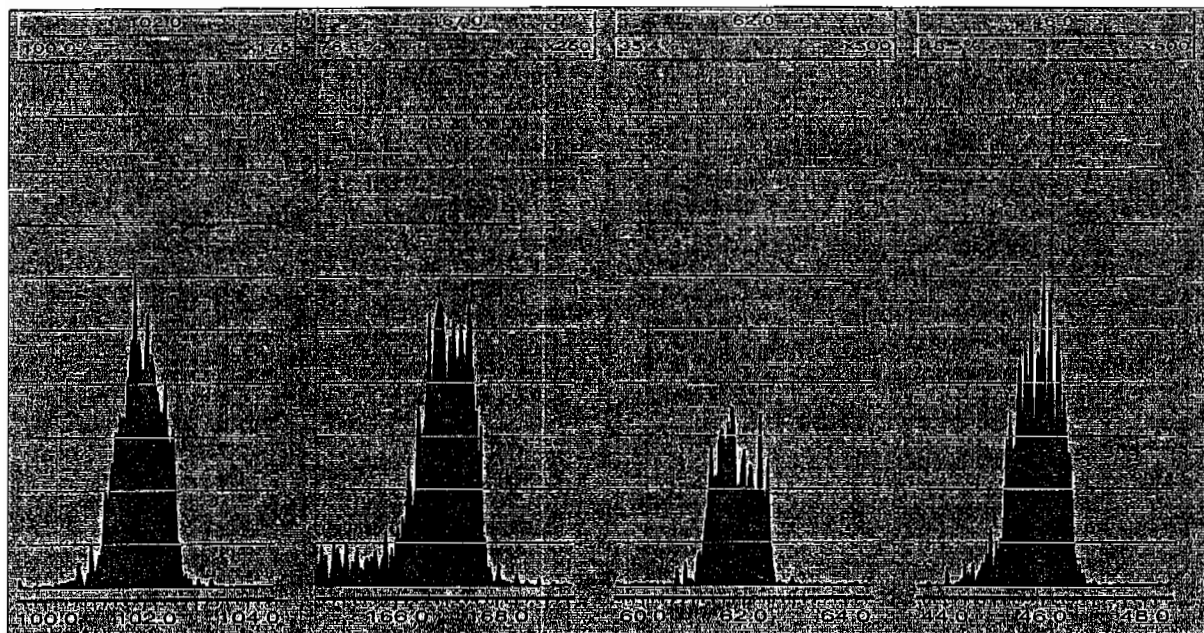


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\New_Exp.PROVACQUDB\explosives04.ipr

Printed : Thu Apr 08 15:35:33 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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 957690	09-apr-10 03:26	EXP0408013a	6662.58	11.999	39376.8	17.289
LCS for batch 957690	09-apr-10 03:56	EXP0408014a	8243.81	11.973	40921.8	17.289
RE15-10-7896	09-apr-10 04:25	EXP0408015a	6808.53	11.972	41254	17.292
RE15-10-7896(247897001MS)	09-apr-10 04:55	EXP0408016a	6944.55	11.973	42773.6	17.285
RE15-10-7896(247897001MSD)	09-apr-10 05:24	EXP0408017a	6941.08	11.998	45398.3	17.292
RE15-10-7894	09-apr-10 05:54	EXP0408018a	6796.68	11.997	40159.1	17.292
RE15-10-7900	09-apr-10 06:23	EXP0408019a	6473.99	11.999	39612.1	17.289
RE15-10-7898	09-apr-10 06:52	EXP0408020a	6731.49	11.997	40060	17.291
RE15-10-7897	09-apr-10 07:22	EXP0408021a	6829.29	11.972	41685	17.289
RE15-10-7895	09-apr-10 07:51	EXP0408022a	6952.13	11.972	40991.8	17.27
RE15-10-7899	09-apr-10 09:49	EXP0408026a	7269.34	11.999	42849.3	17.289
RE15-10-7893	09-apr-10 10:19	EXP0408027a	7031.69	11.998	41828.9	17.292
RE15-10-8003	09-apr-10 12:17	EXP0408031a	5621.86	11.999	34232.6	17.29
RE15-10-8007	09-apr-10 12:46	EXP0408032a	5429.13	11.998	33220.3	17.289
RE15-10-8002	09-apr-10 13:16	EXP0408033a	5757.69	11.999	32470.9	17.292
RE15-10-8010	09-apr-10 13:45	EXP0408034a	5527.28	11.996	33259.1	17.3
RE15-10-8006	09-apr-10 14:15	EXP0408035a	5956.06	11.997	34964.9	17.291
RE15-10-8001	09-apr-10 16:13	EXP0408039a	6140.64	11.998	32554.3	17.288
RE15-10-8012	09-apr-10 16:46	EXP0408040a	5188.31	11.999	31452.8	17.289
RE15-10-8008	09-apr-10 17:15	EXP0408041a	5389.44	12.001	31959.8	17.287
RE15-10-8005	09-apr-10 17:45	EXP0408042a	5062.78	12.001	30330.1	17.286
RE15-10-8011	10-apr-10 13:25	EXP0408082a	5304.3	11.998	32775.7	17.29
RE15-10-8004	10-apr-10 13:54	EXP0408083a	5348.25	11.973	30999.9	17.204
RE15-10-8009	10-apr-10 14:24	EXP0408084a	5758.07	11.921	34259.9	17.135

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

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

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

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

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

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

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

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

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

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897001

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408015a

Date Analyzed: 09-APR-10 04:25

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 29 of 51

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

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0408015a

Date: 09-Apr-2010

Time: 04:25:39

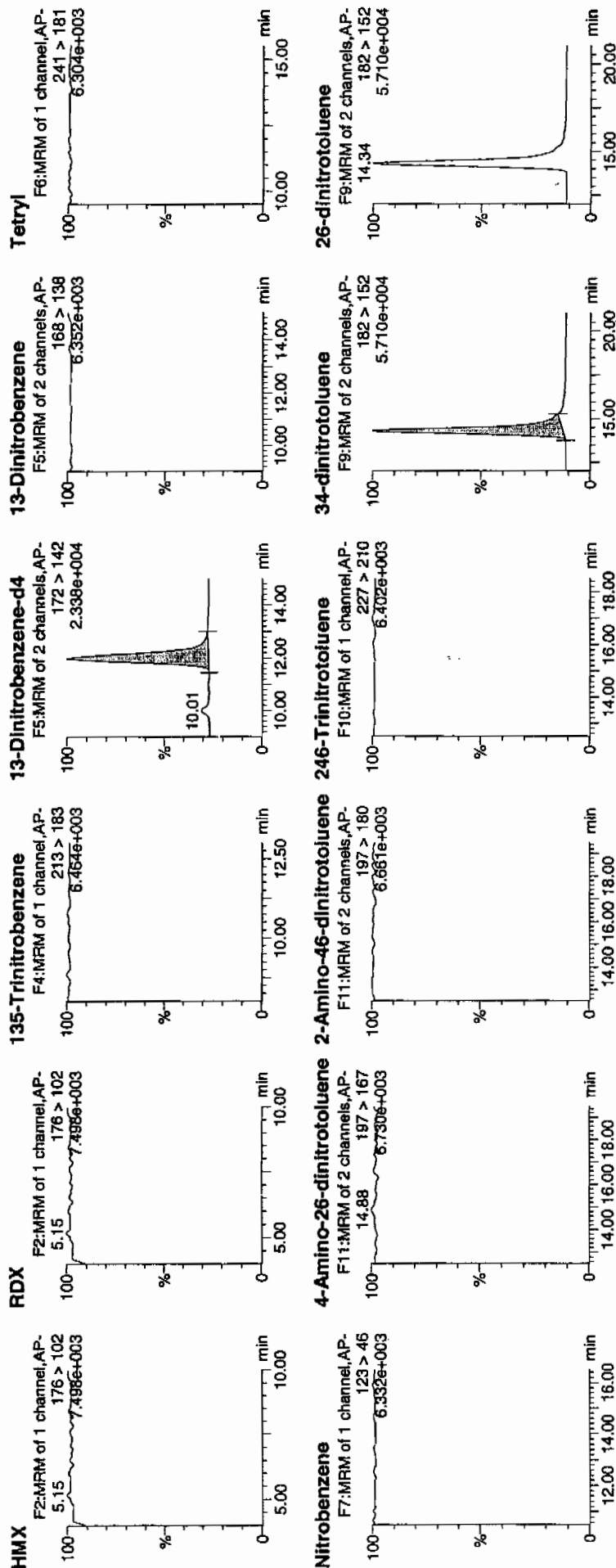
ID: 247897001

Vial: 2:1,C

4/9/10
4/10/10

LAU/957200/8022/21

Page 163 of 703



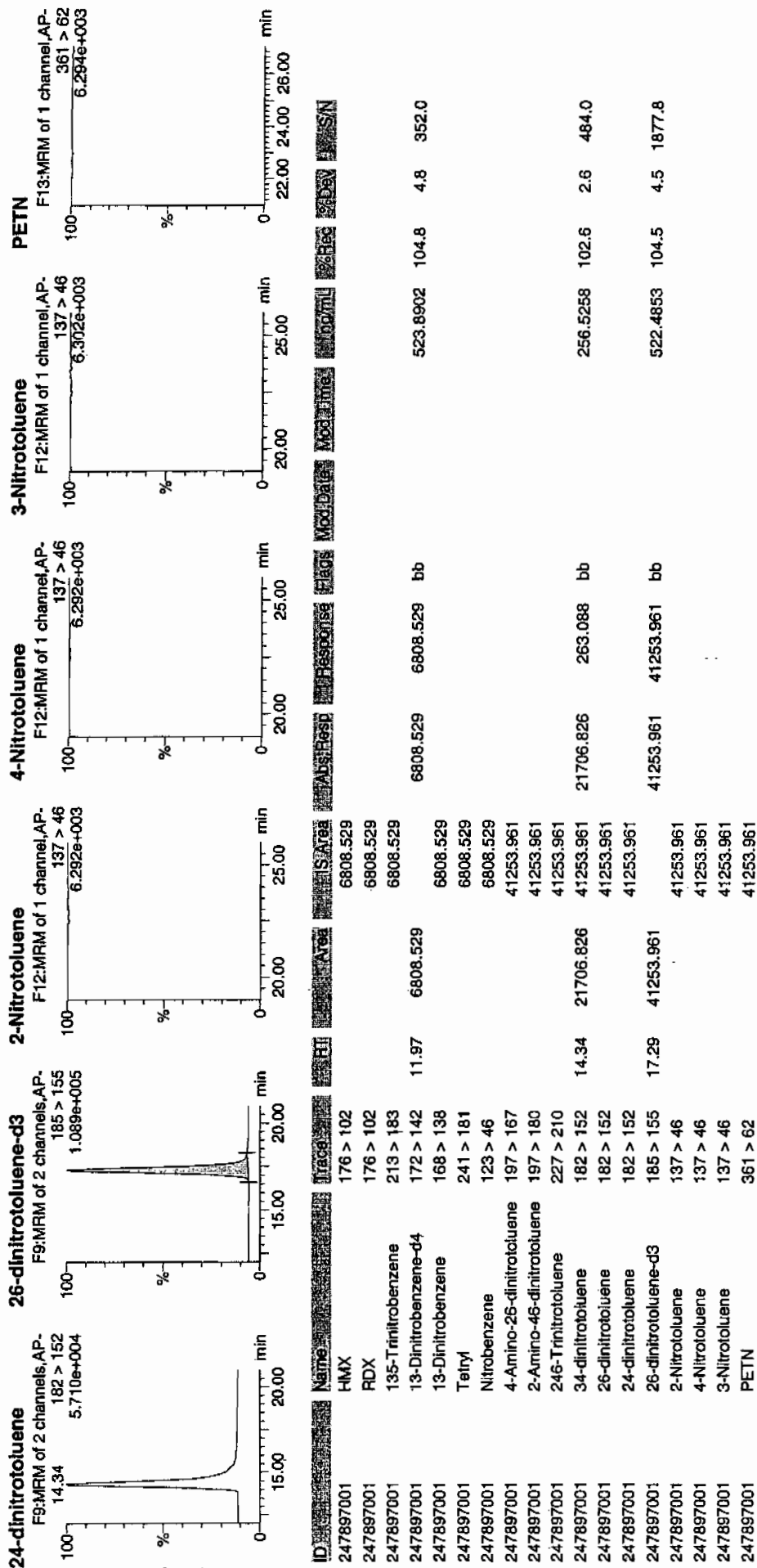
done
4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 30 of 51

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



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897001

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220063.wiff

Date Analyzed: 23-MAR-10 07:27

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

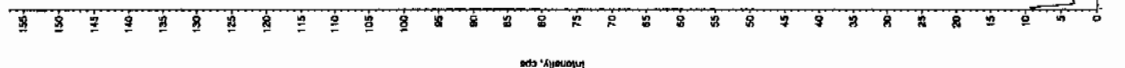
for 3/27/10

Sample Name: "247897001" Sample ID: "95770021.ER" File: "EXS03220063.wif"

Peak Name: "TATB" Mass(es): "257.2/204.8 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: 7:27:16 AM
Modified: No

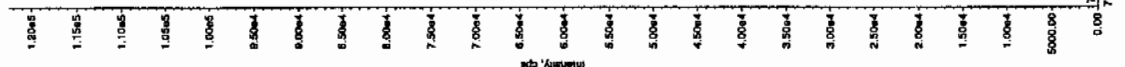


Sample Name: "247897001" Sample ID: "95770031.ER" File: "EXS03220063.wif"

Peak Name: "35-Dinitroanthracene" Mass(es): "182.0/166.0 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: 7:27:16 AM
Modified: No



Ann 03/29/10

Sample Name: "247897001" Sample ID: "9577002JLER" File: "EX503220063.wif"

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

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

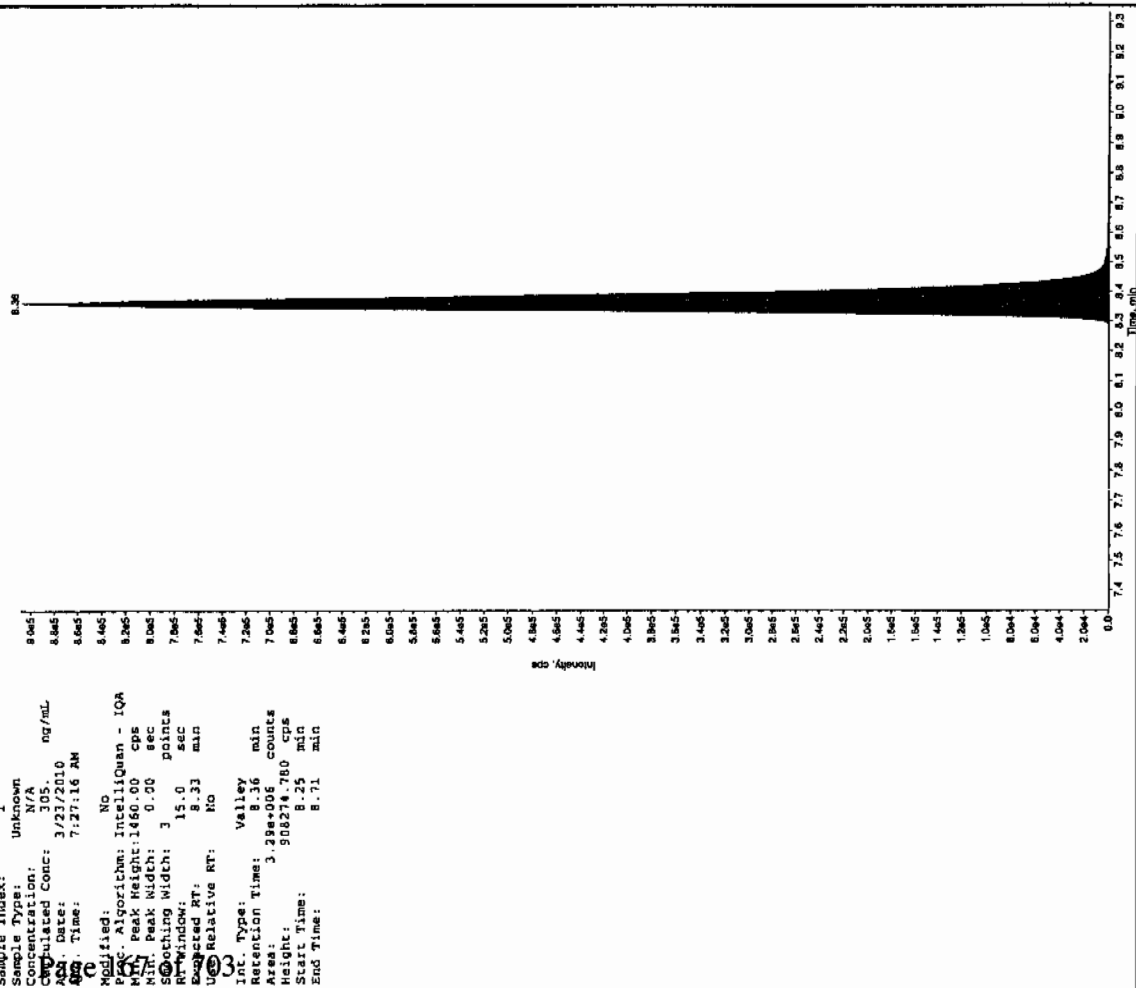
Concentration: 87.6 ng/mL

Calculated Conc: 3/23/2010

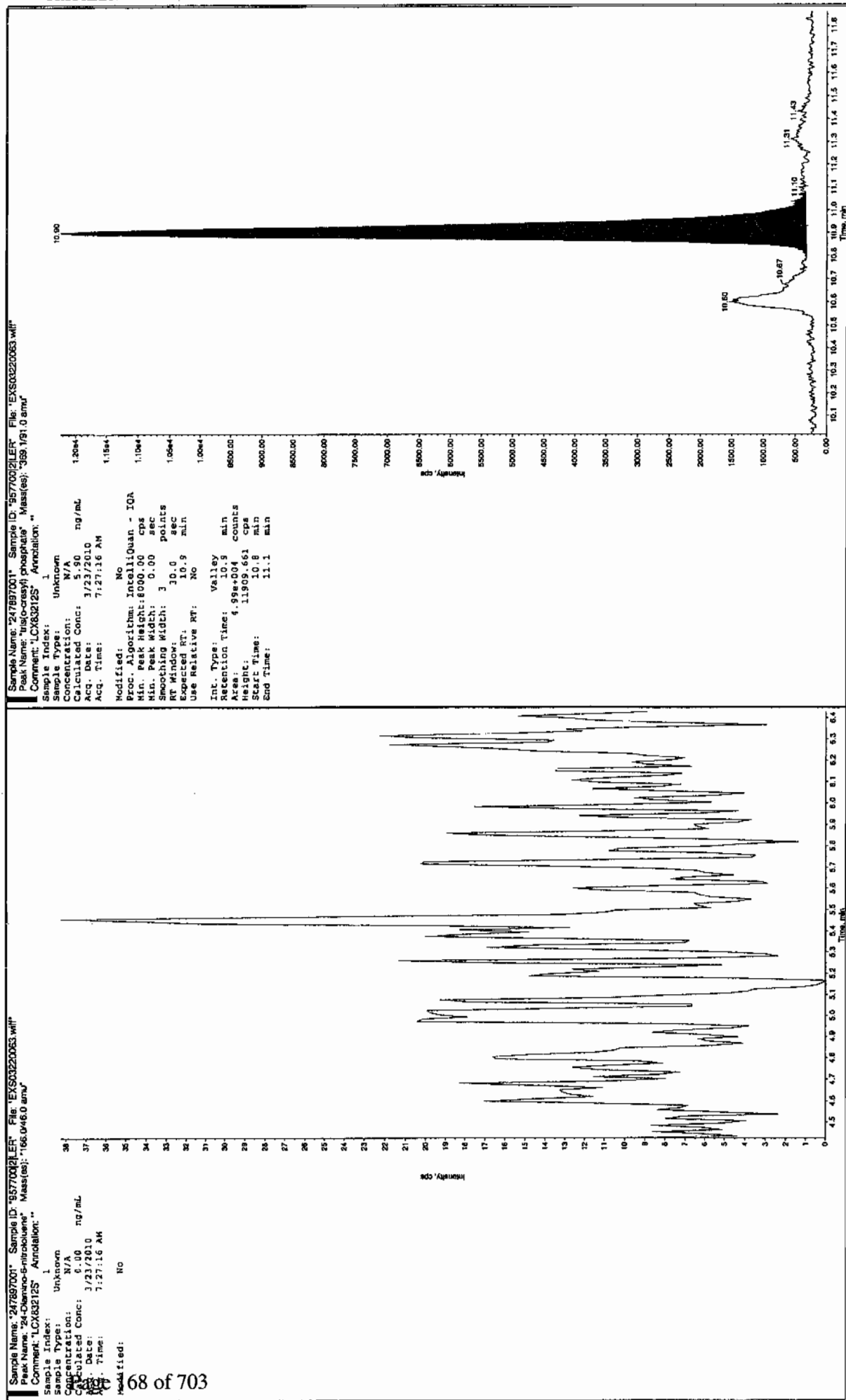
Acq. Date: 7:27:16 AM

Acq. Time: 7:27:16 AM

Modified: No



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



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7894

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897002

Sample Amount 2

Moisture: 26.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408018a

Date Analyzed: 09-APR-10 05:54

Units: ug/kg

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

*Concentration =

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408018a

Date: 09-Apr-2010

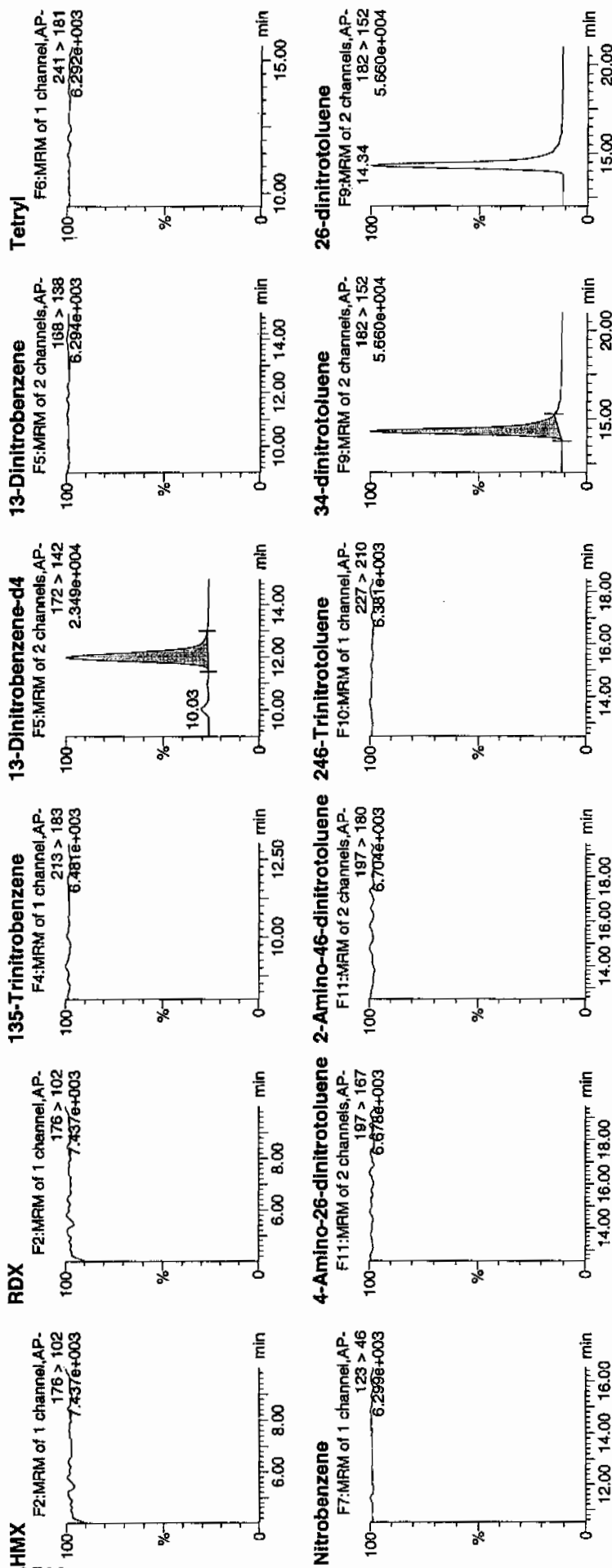
Time: 05:54:01

ID: 247897002

Vial: 2:1,F

4/10/10

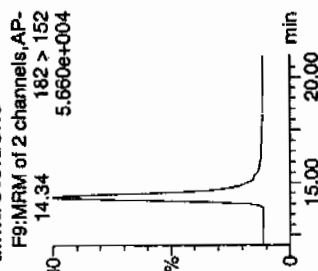
LAU-1957700 | 21 | 5022



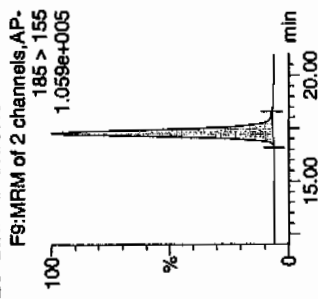
Handwritten signature and date: 4/11/10

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

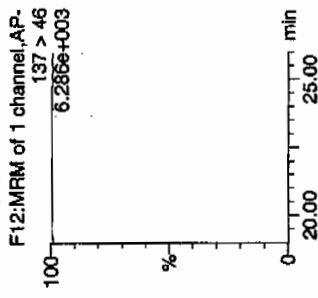
24-dinitrotoluene



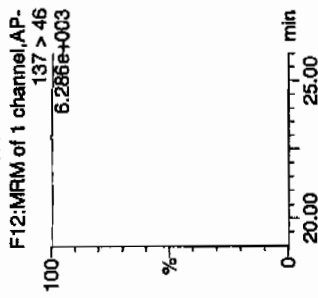
26-dinitrotoluene-d3



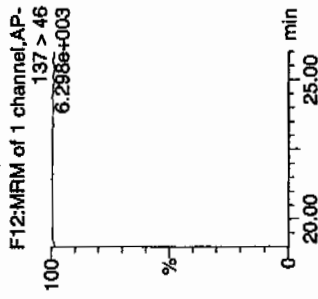
2-Nitrotoluene



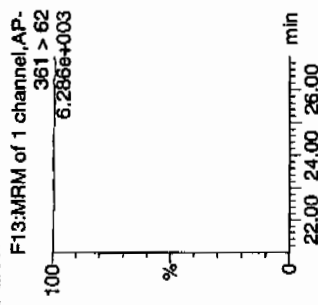
4-Nitrotoluene



3-Nitrotoluene



PEIN



Name	ID	Trace	RT	Area	Area	Abst Resp	Res Responses	Flags	Mod Date	Mod Time	IntromL	%Rec	QDay	MSIN
HNX	247897002	176 > 102			6796.677									
RDX	247897002	176 > 102			6796.677									
135-Trinitrobenzene	247897002	213 > 183			6796.677									
13-Dinitrobenzene-d4	247897002	172 > 142	12.00	6796.677		6796.677	6796.677	bb			522.9782	104.6	4.6	416.6
13-Dinitrobenzene	247897002	168 > 138												
Tetryl	247897002	241 > 181			6796.677									
Nitrobenzene	247897002	123 > 46			6796.677									
4-Amino-26-dinitrotoluene	247897002	197 > 167			40159.105									
2-Amino-46-dinitrotoluene	247897002	197 > 180			40159.105									
246-Trinitrotoluene	247897002	227 > 210			40159.105									
34-dinitrotoluene	247897002	182 > 152	14.34	20954.617	40159.105	20954.617	260.895	bb			254.3877	101.8	1.8	768.8
26-dinitrotoluene	247897002	182 > 152			40159.105									
24-dinitrotoluene	247897002	182 > 152			40159.105									
26-dinitrotoluene-d3	247897002	185 > 155	17.29	40159.105		40159.105	40159.105	bb			508.6189	101.7	1.7	2305.8
2-Nitrotoluene	247897002	137 > 46			40159.105									
4-Nitrotoluene	247897002	137 > 46			40159.105									
3-Nitrotoluene	247897002	137 > 46			40159.105									
PETN	247897002	361 > 62			40159.105									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7894

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897002

Sample Amount 2

Moisture: 26.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220066.wiff

Date Analyzed: 23-MAR-10 08:14

Units: ug/kg

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

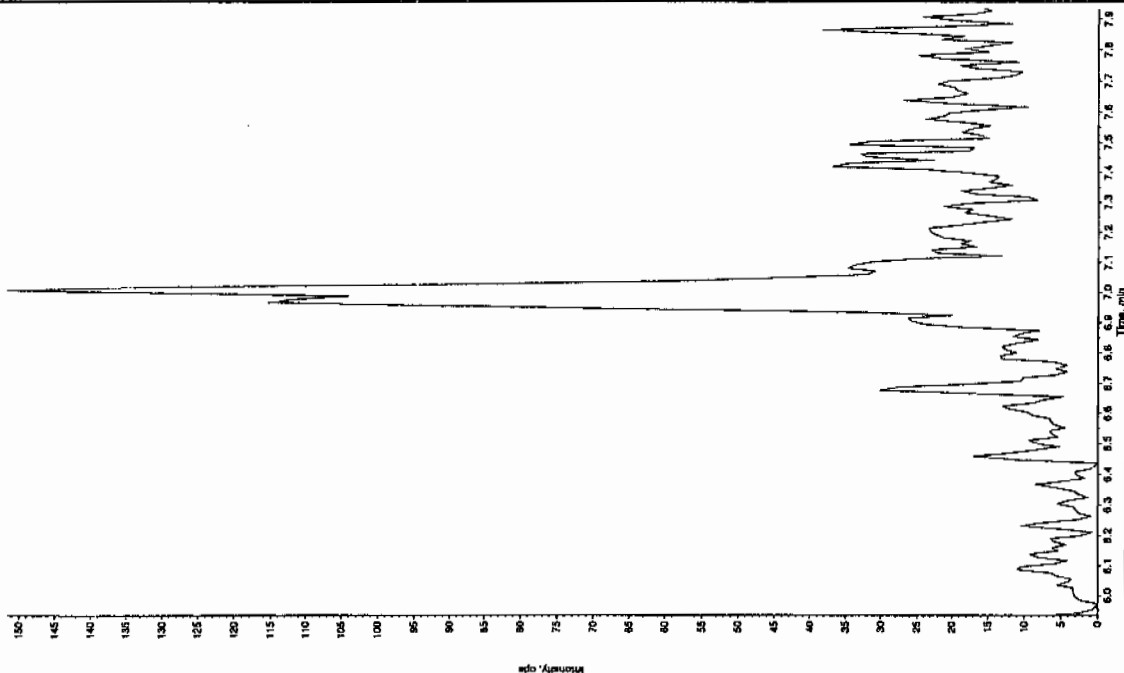
*Concentration =

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

San 3/27/10

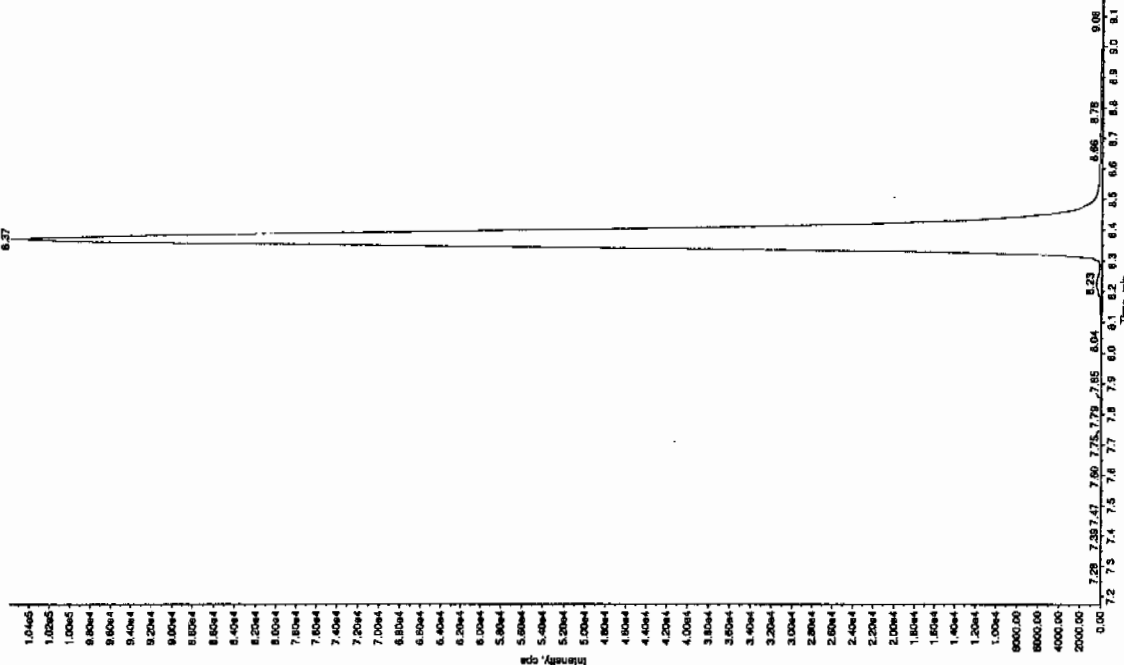
Sample Name: "24789702" Sample ID: "9570021ER" File: "EX503220068.wif"
 Peak Name: "TATB" Mass(es): "257.2204.8 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:14:27 AM
 Modified: No

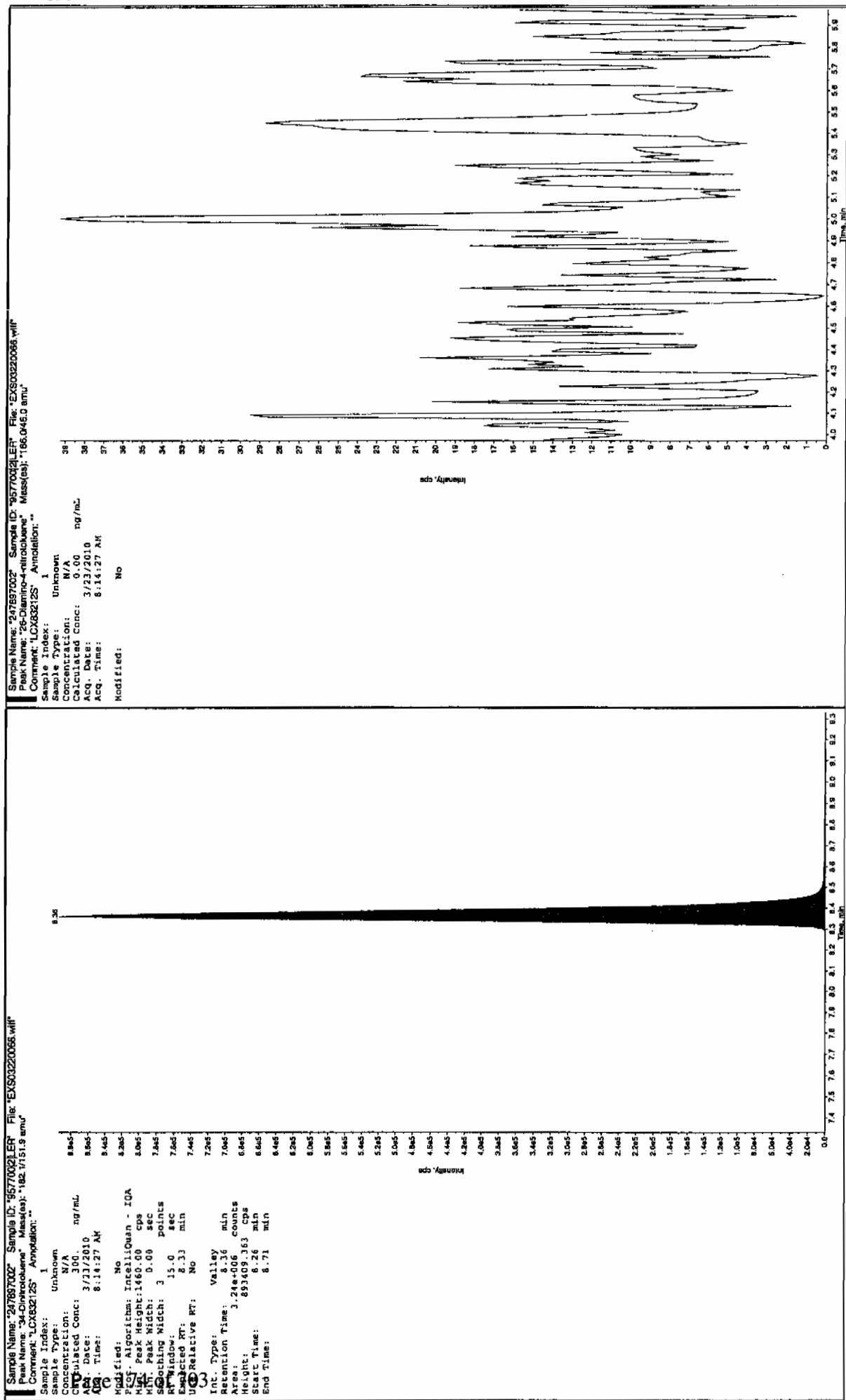


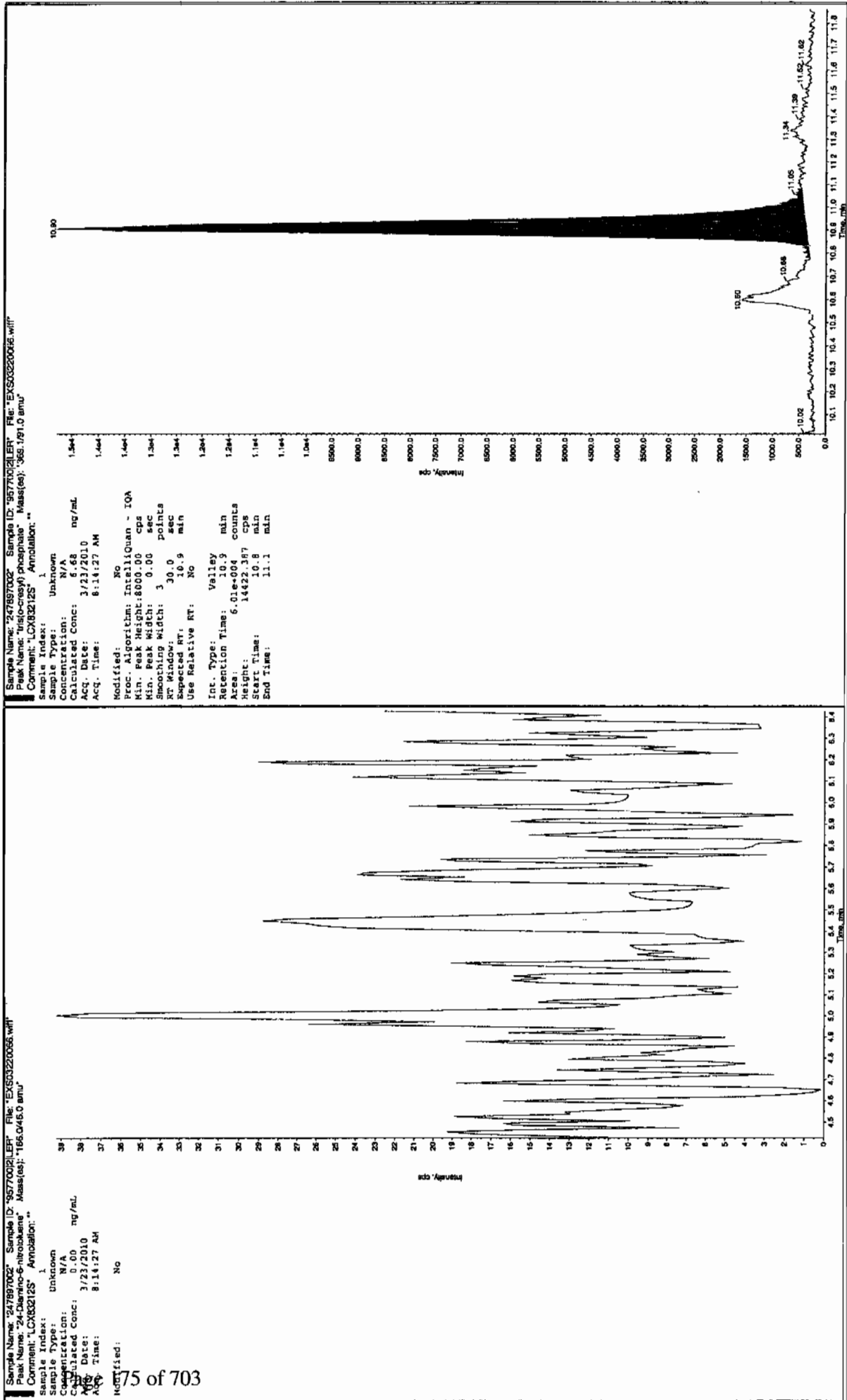
Sample Name: "24789702" Sample ID: "9570021ER" File: "EX503220068.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:14:27 AM
 Modified: No



San 3/27/10





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7900

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897003

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408019a

Date Analyzed: 09-APR-10 06:23

Units: ug/kg

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

*Concentration =

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408019a

Date: 09-Apr-2010

Time: 06:23:28

ID: 247897003

Vial: 2:2,A

4/9/10

LAU (95720) | 8022 | 21

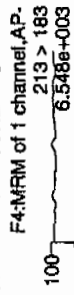
HMx



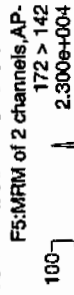
RDX



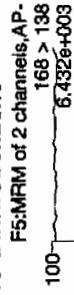
135-Trinitrobenzene



13-Dinitrobenzene-d4



13-Dinitrobenzene



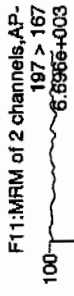
Tetryl



Nitrobenzene



4-Amino-26-dinitrotoluene



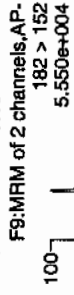
2-Amino-46-dinitrotoluene



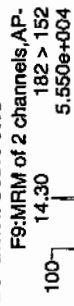
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

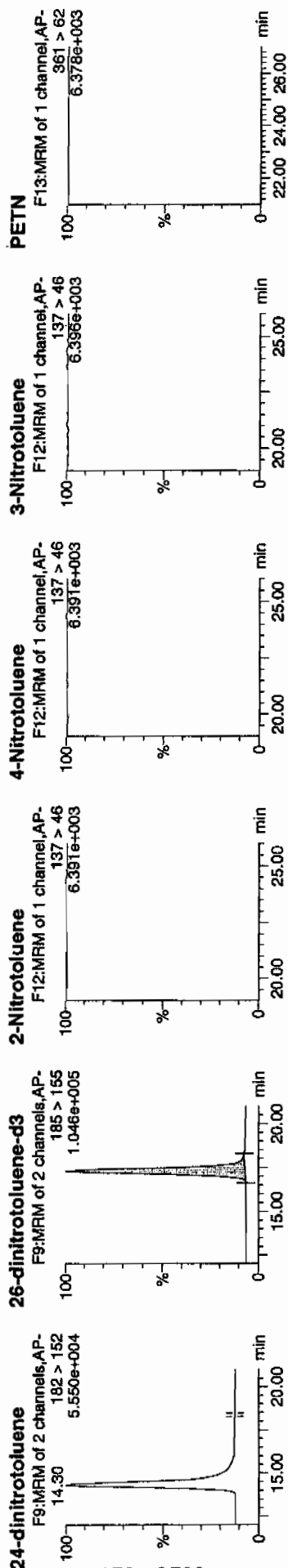


Handwritten signature

Quantify Sample Report

Analyst: Michael A. Penny

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

[illegible]

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7900

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897003

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220067.wiff

Date Analyzed: 23-MAR-10 08:30

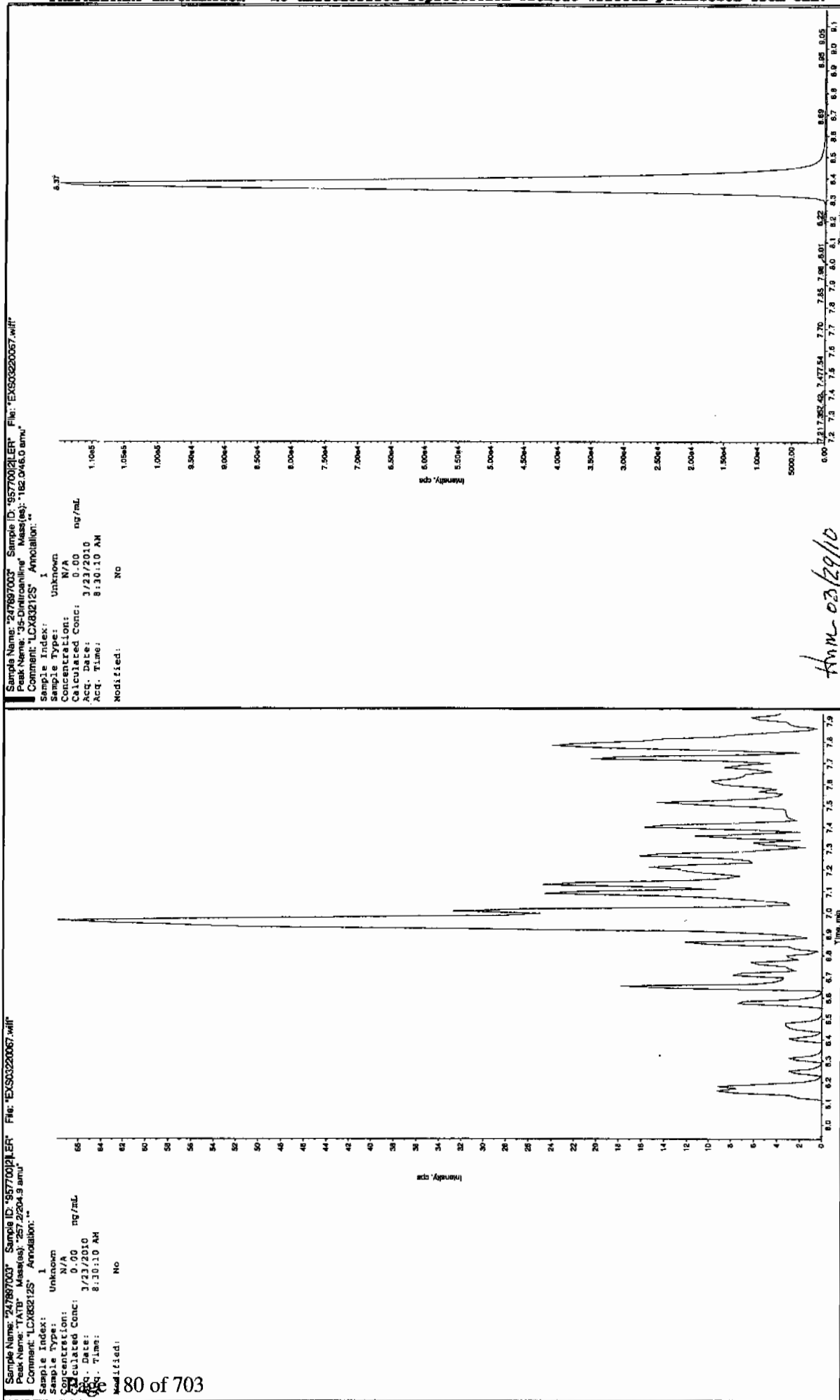
Units: ug/kg

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

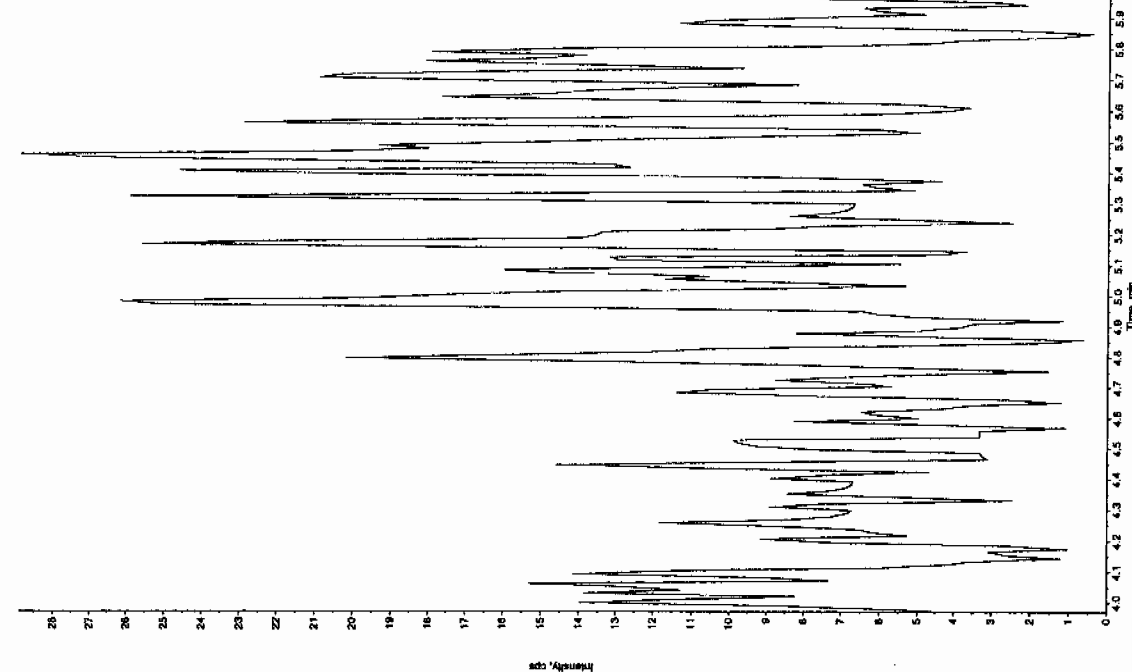
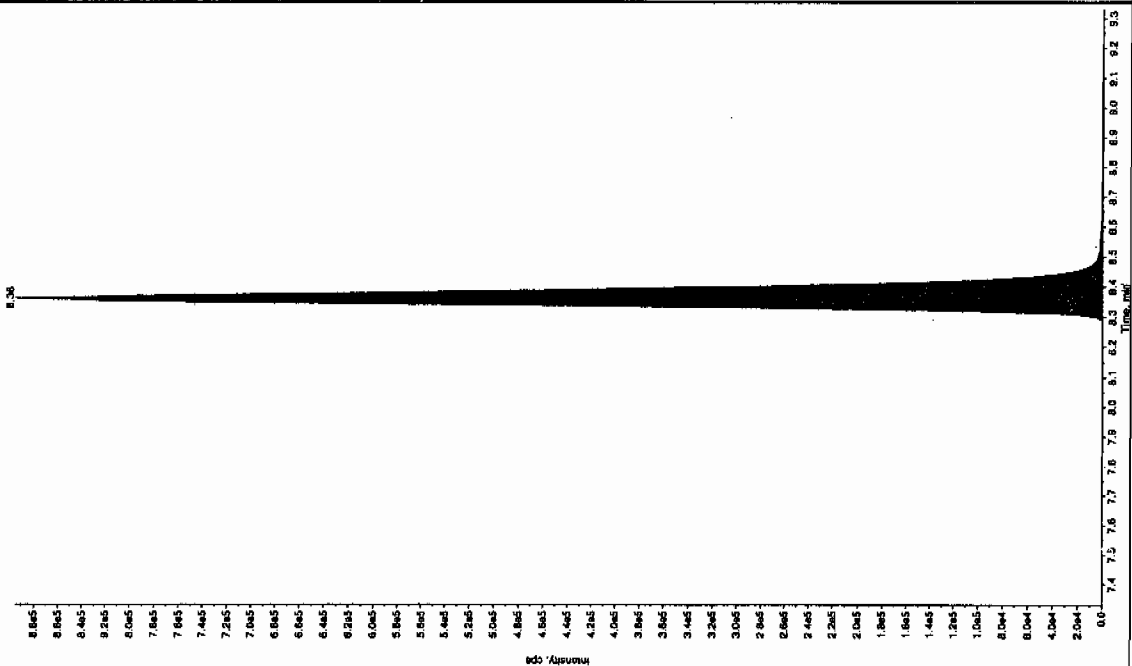
*Concentration =

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

for 3/23/10

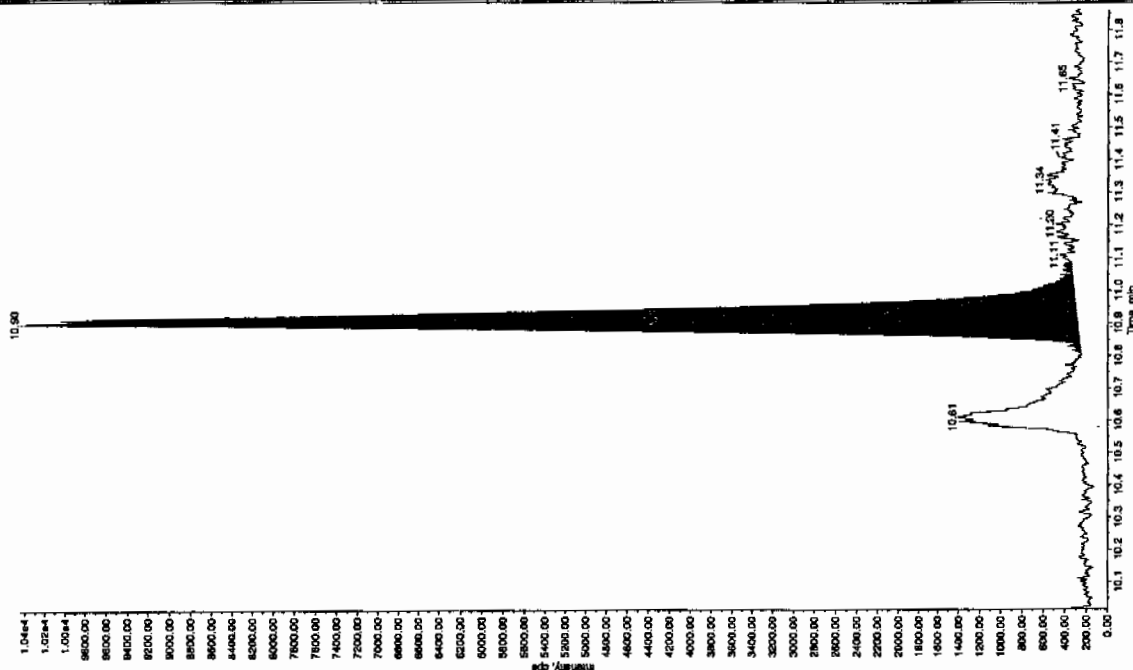


Amc 03/29/10



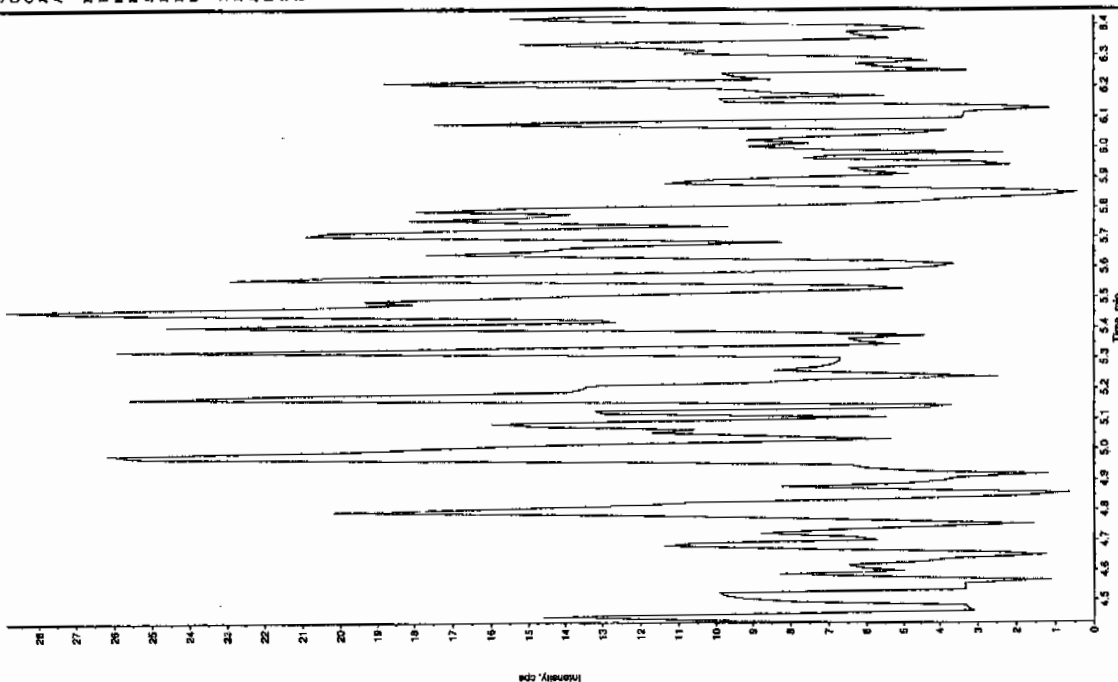
Sample Name: "247897003" Sample ID: "9577002LER" File: "EXS03220067.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 5.18 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 8:30:10 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Weight: 6000.00 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: 4.06e+004 counts
 Height: 10158.607 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "247897003" Sample ID: "9577002LER" File: "EXS03220067.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "186.046.0 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: 8:30:10 AM
 Modified: No



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7898

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897004

Sample Amount 2

Moisture: 15.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408020a

Date Analyzed: 09-APR-10 06:52

Units: ug/kg

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

*Concentration =

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

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 39 of 51

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408020a

Date: 09-Apr-2010

Time: 06:52:58

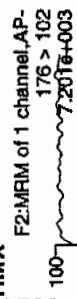
ID: 247897004

Vial: 2:2,B

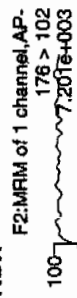
Lot#
4/12/10

WAV/95700/Sens/21

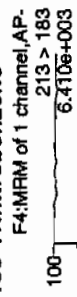
HMx



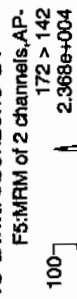
RDX



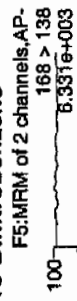
135-Trinitrobenzene



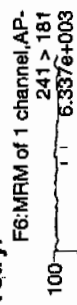
13-Dinitrobenzene-d4



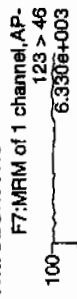
13-Dinitrobenzene



Tetryl



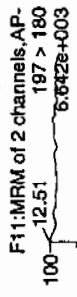
Nitrobenzene



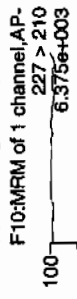
4-Amino-26-dinitrotoluene



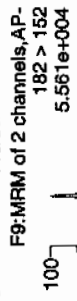
2-Amino-46-dinitrotoluene



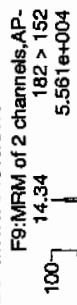
246-Trinitrotoluene



34-dinitrotoluene



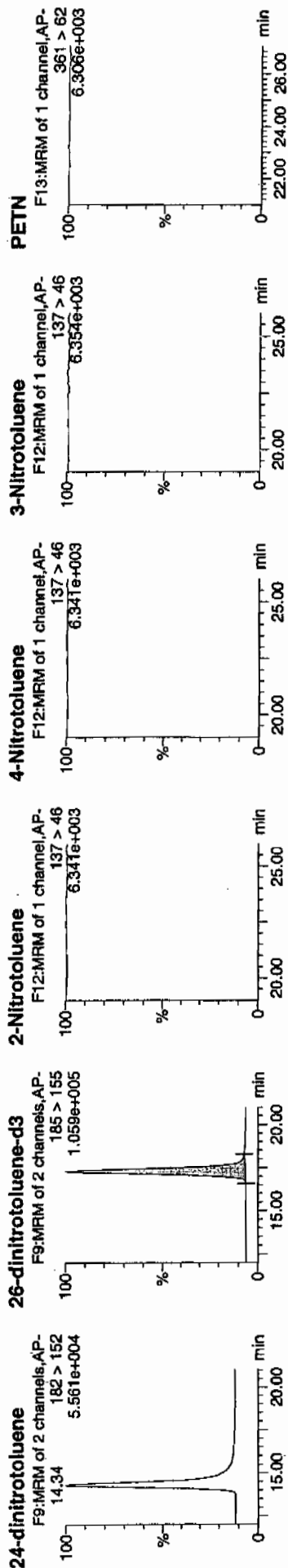
26-dinitrotoluene



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

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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7898

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897004

Sample Amount 2

Moisture: 15.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220068.wiff

Date Analyzed: 23-MAR-10 08:45

Units: ug/kg

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

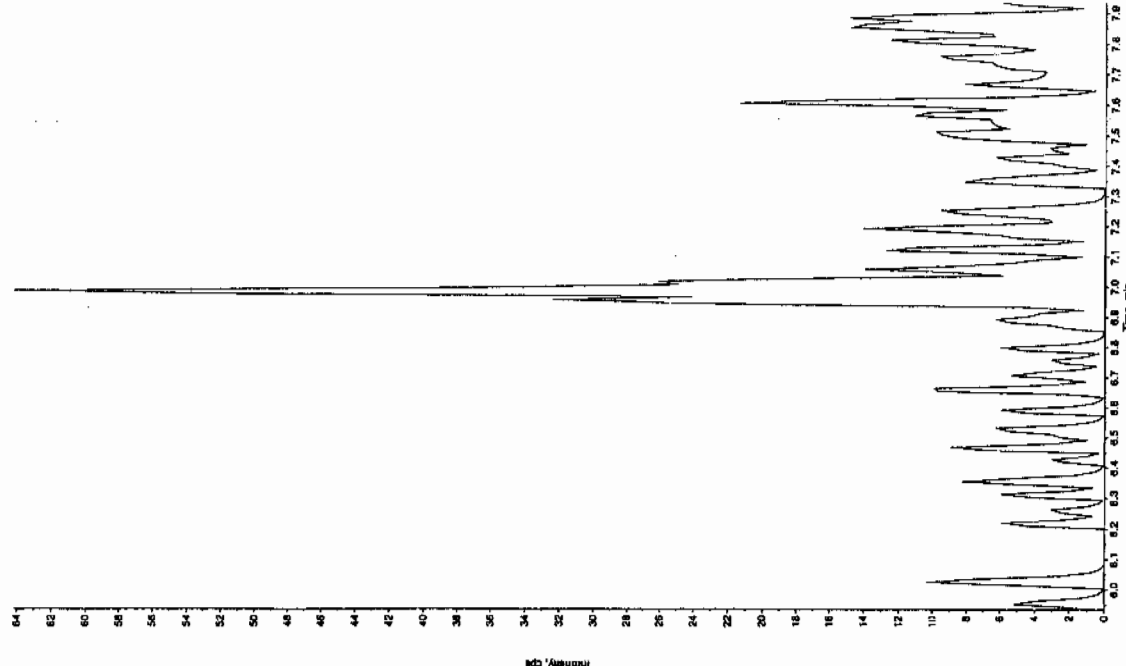
*Concentration =

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

kan 3/27/10

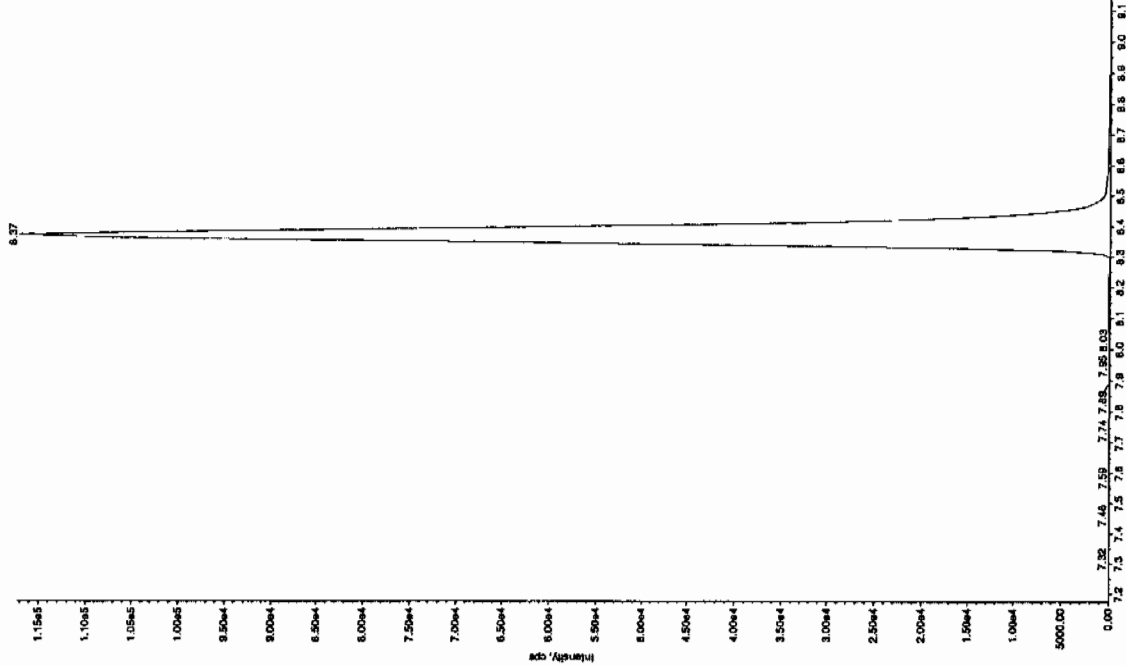
Sample Name: "247897004" Sample ID: "95770021.ER" File: "EX303220068.will"
 Peak Name: "1A19" Mass(es): "257.2704.9 amu"
 Comment: "LCX632125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 8:45:53 AM
 Acq. Time: 8:45:53 AM
 Modified: No

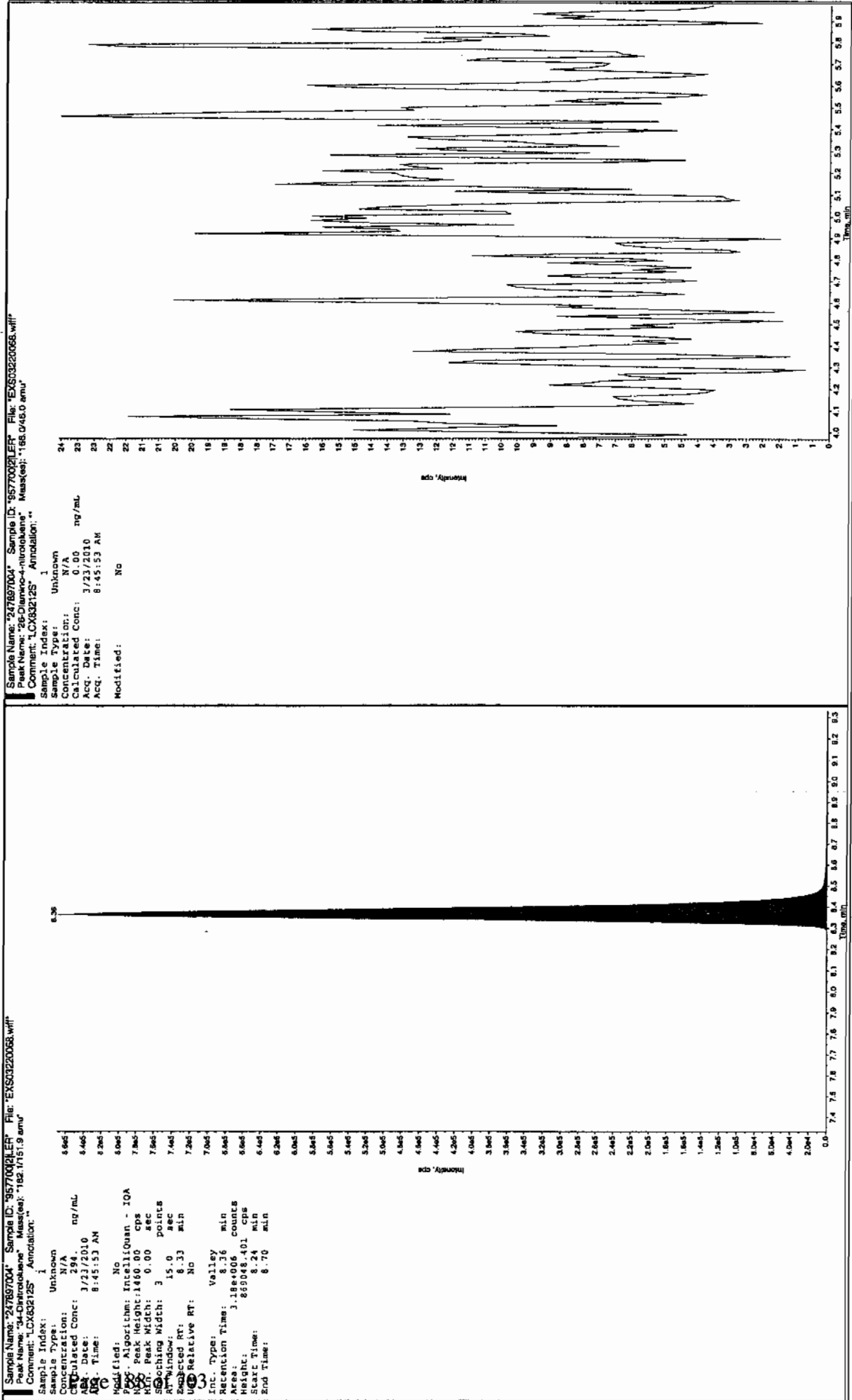


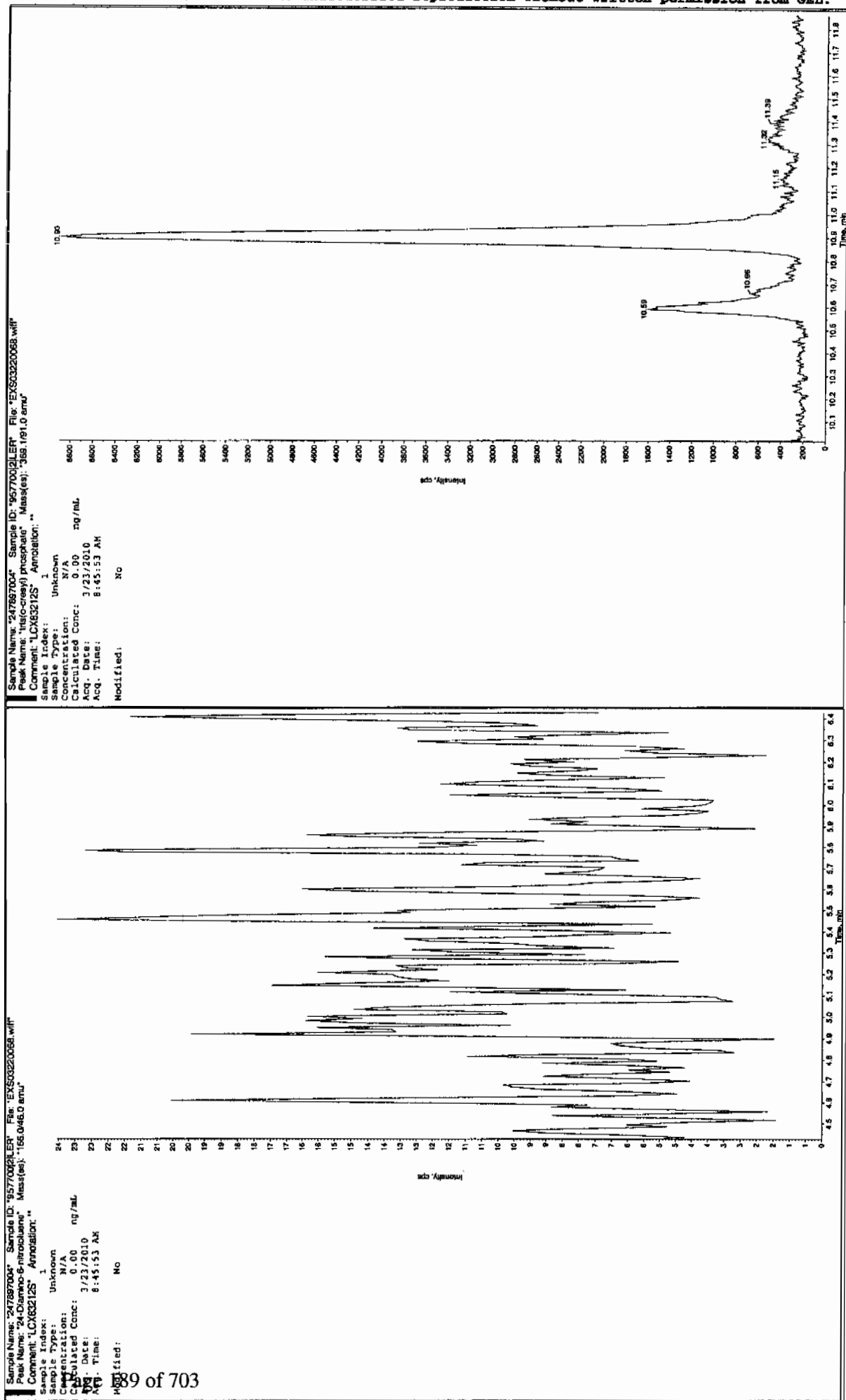
Sample Name: "247897004" Sample ID: "95770021.ER" File: "EX303220068.will"
 Peak Name: "35-Dinitroaniline" Mass(es): "102.046.0 amu"
 Comment: "LCX632125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 8:45:53 AM
 Acq. Time: 8:45:53 AM
 Modified: No



AMW 03/29/10





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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7897

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897005

Sample Amount 2

Moisture: 16.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408021a

Date Analyzed: 09-APR-10 07:22

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408021a

Date: 09-Apr-2010

Time: 07:22:27

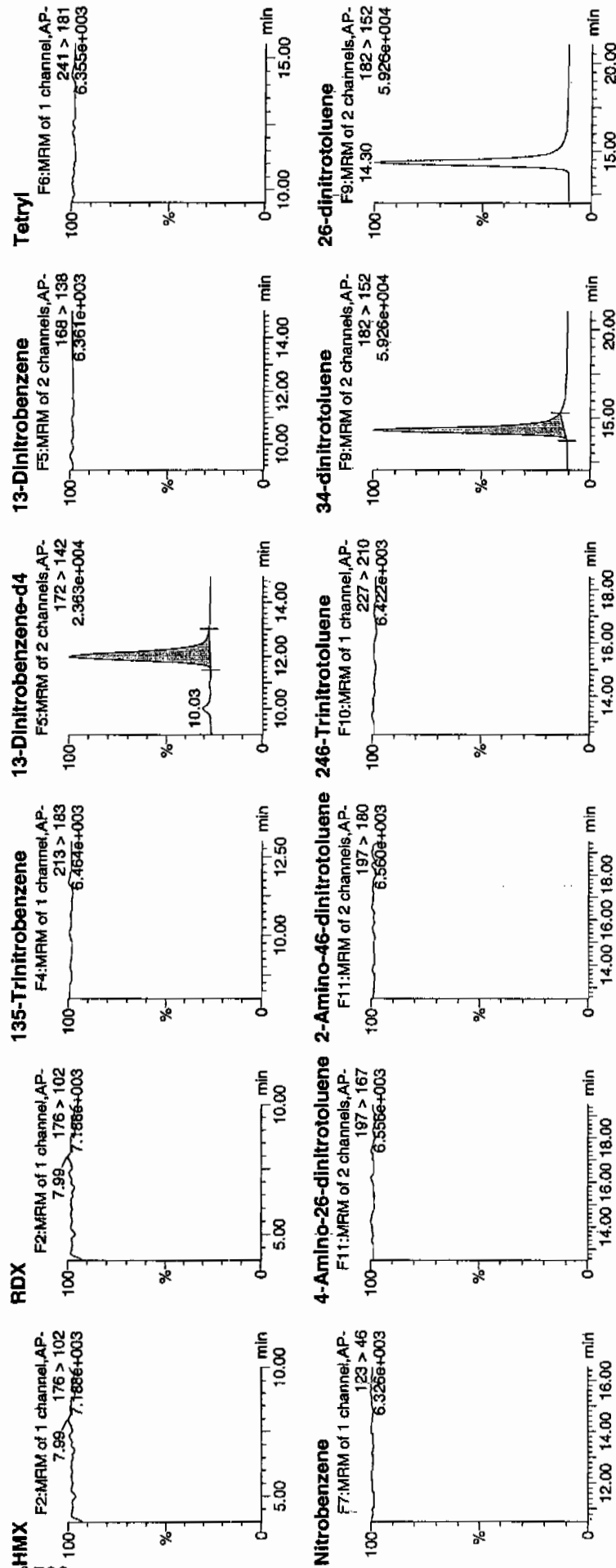
ID: 247897005

Vial: 2:2,C

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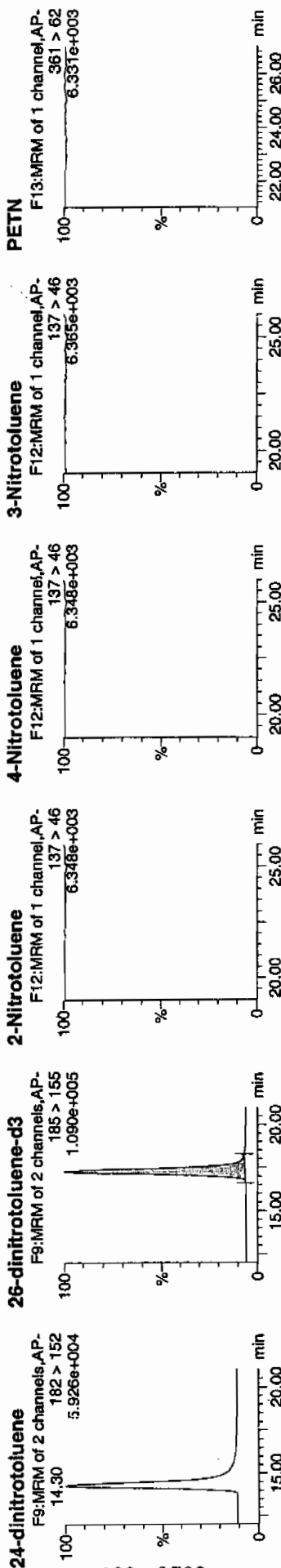
done
4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 42 of 51

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



ID	Name	RT	Area	StArea	AbstrResp	Response	Flag	ModDate	ModTime	ModBy	ModSN
247897005	HMX	176 > 102	6829.293	6829.293							
247897005	RDX	176 > 102	6829.293	6829.293							
247897005	135-Trinitrobenzene	213 > 183	6829.293	6829.293							
247897005	13-Dinitrobenzene-d4	172 > 142	11.97	6829.293			bb				
247897005	13-Dinitrobenzene	168 > 138	6829.293	6829.293							
247897005	Tetryl	241 > 181	6829.293	6829.293							
247897005	Nitrobenzene	123 > 46	6829.293	6829.293							
247897005	4-Amino-26-dinitrotoluene	197 > 167	6829.293	6829.293							
247897005	2-Amino-46-dinitrotoluene	197 > 180	41684.988	41684.988							
247897005	246-Trinitrotoluene	227 > 210	41684.988	41684.988							
247897005	34-dinitrotoluene	182 > 152	14.30	22233.439	22233.439	266.684	bb				
247897005	26-dinitrotoluene	182 > 152	41684.988	41684.988							
247897005	24-dinitrotoluene	182 > 152	41684.988	41684.988							
247897005	26-dinitrotoluene-d3	185 > 155	17.29	41684.988	41684.988	41684.988	bb				
247897005	2-Nitrotoluene	137 > 46	41684.988	41684.988							
247897005	4-Nitrotoluene	137 > 46	41684.988	41684.988							
247897005	3-Nitrotoluene	137 > 46	41684.988	41684.988							
247897005	PETN	361 > 62	41684.988	41684.988							

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7897

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897005

Sample Amount 2

Moisture: 16.2

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220069.wiff

Date Analyzed: 23-MAR-10 09:01

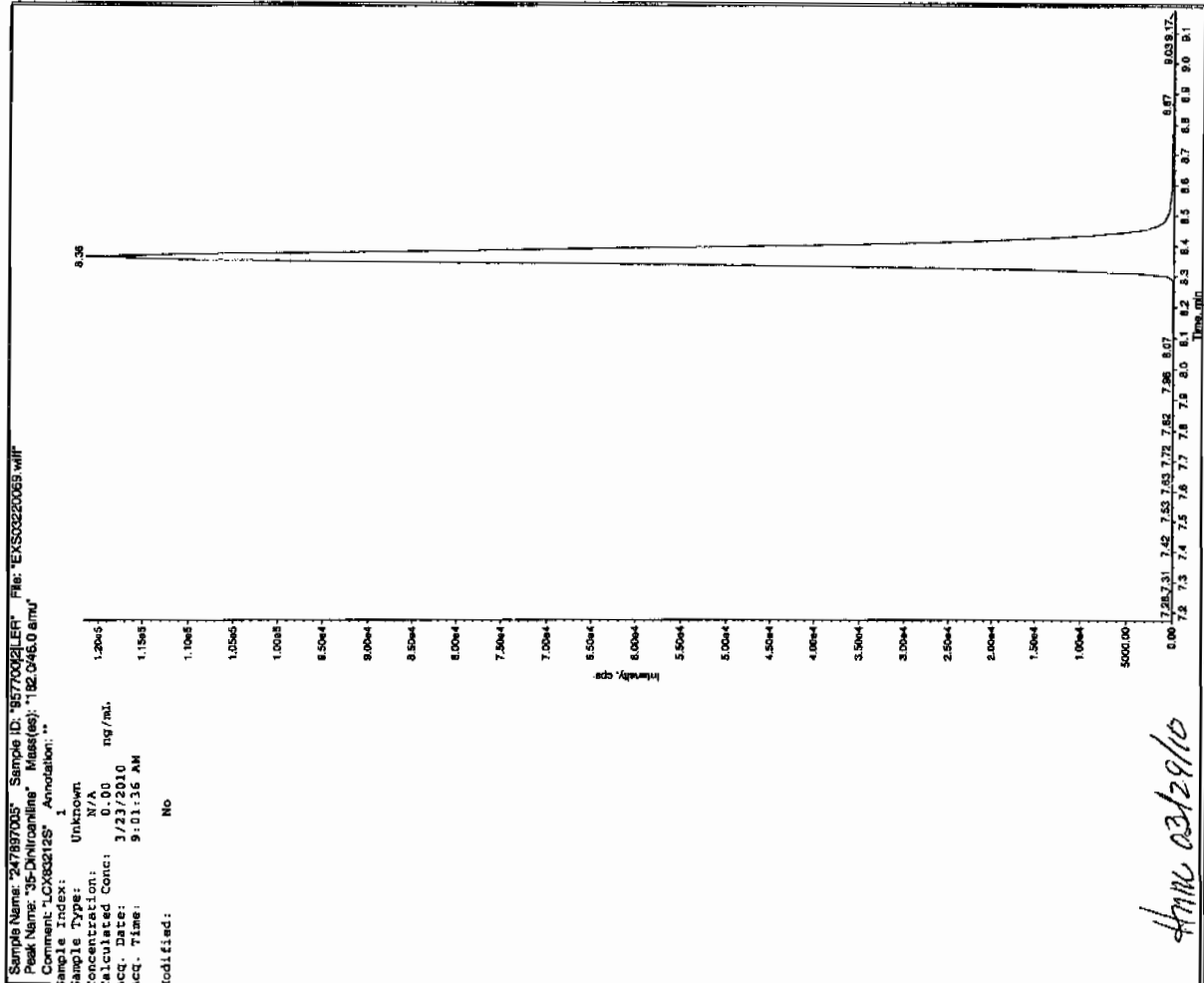
Units: ug/kg

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

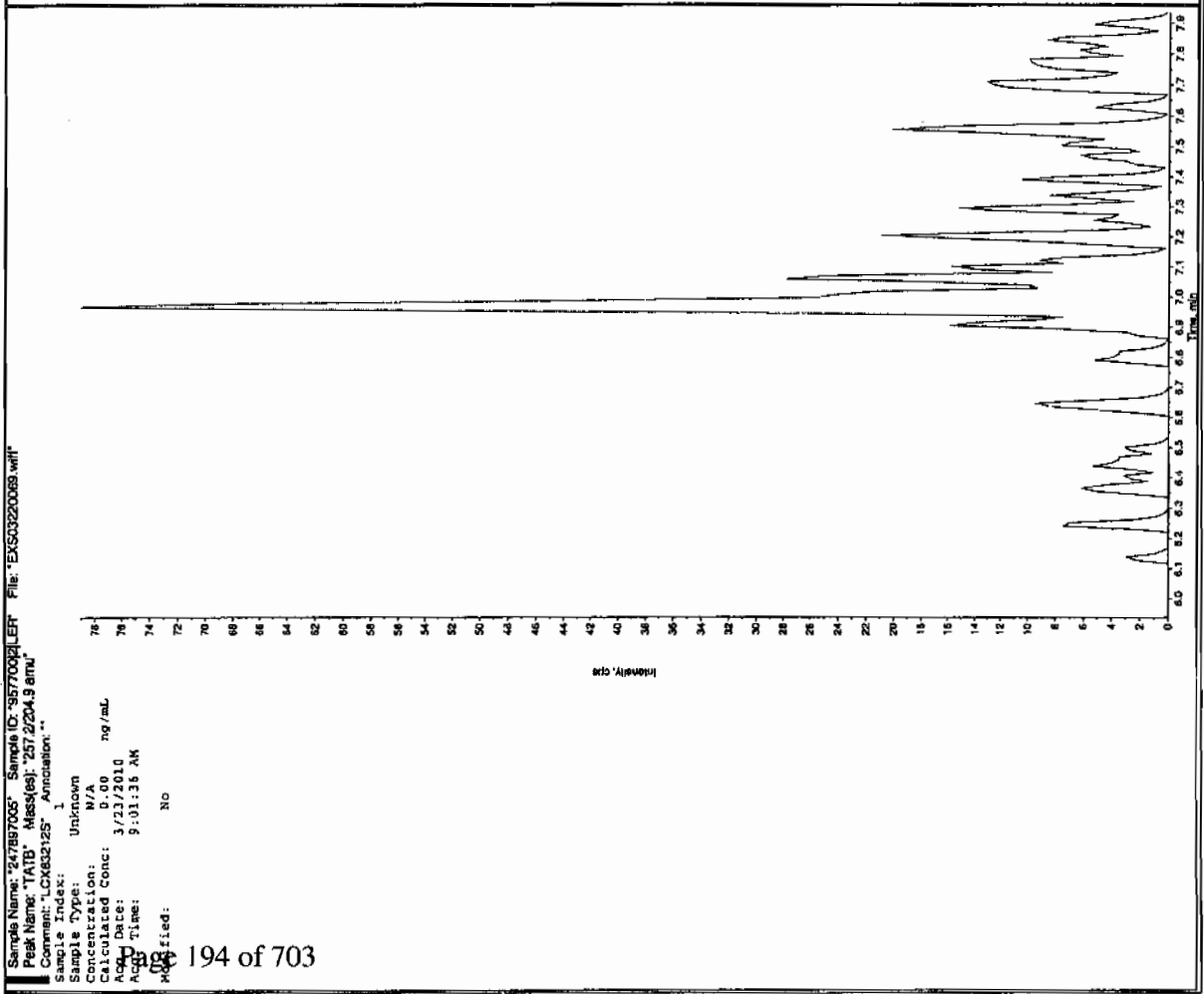
*Concentration =

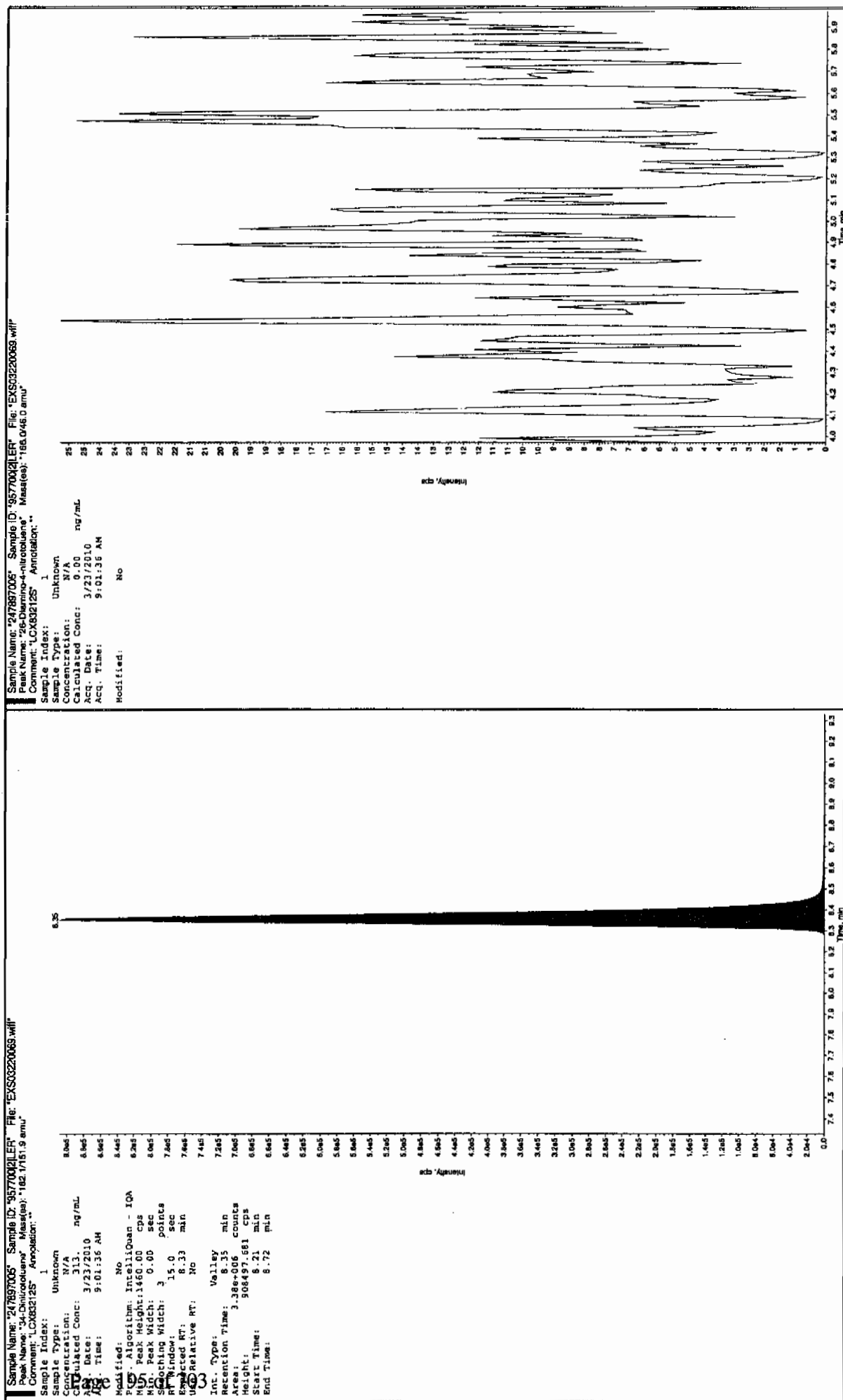
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

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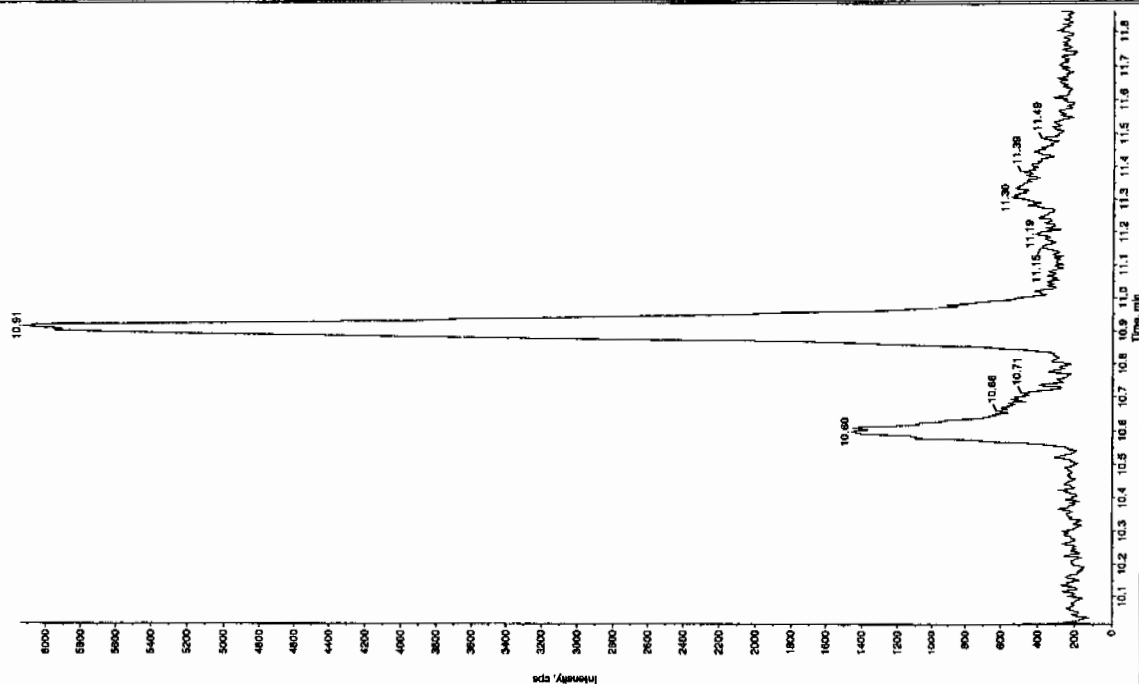
Amc 03/29/10





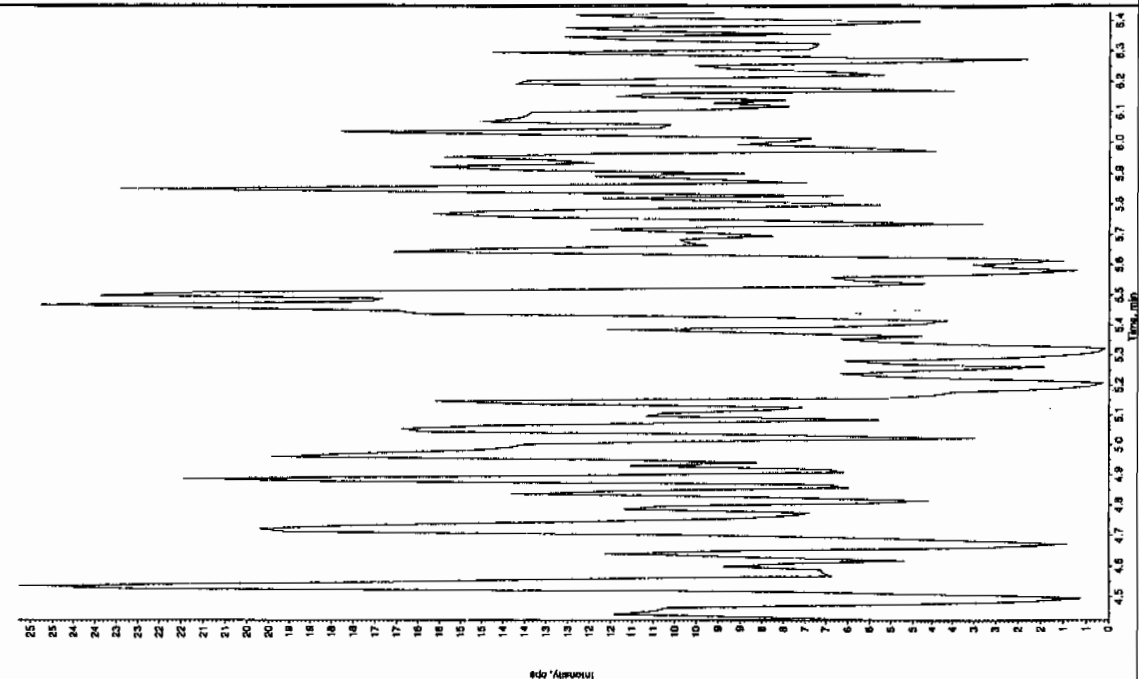
Sample Name: "247897005" Sample ID: "55770021ER" File: "EX503220069.wiff"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "355.151.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:01:36 AM
 Modified: No



Sample Name: "247897005" Sample ID: "55770021ER" File: "EX503220069.wiff"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "156.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 9:01:36 AM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7895

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897006

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408022a

Date Analyzed: 09-APR-10 07:51

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report

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

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408022a

Date: 09-Apr-2010

Time: 07:51:55

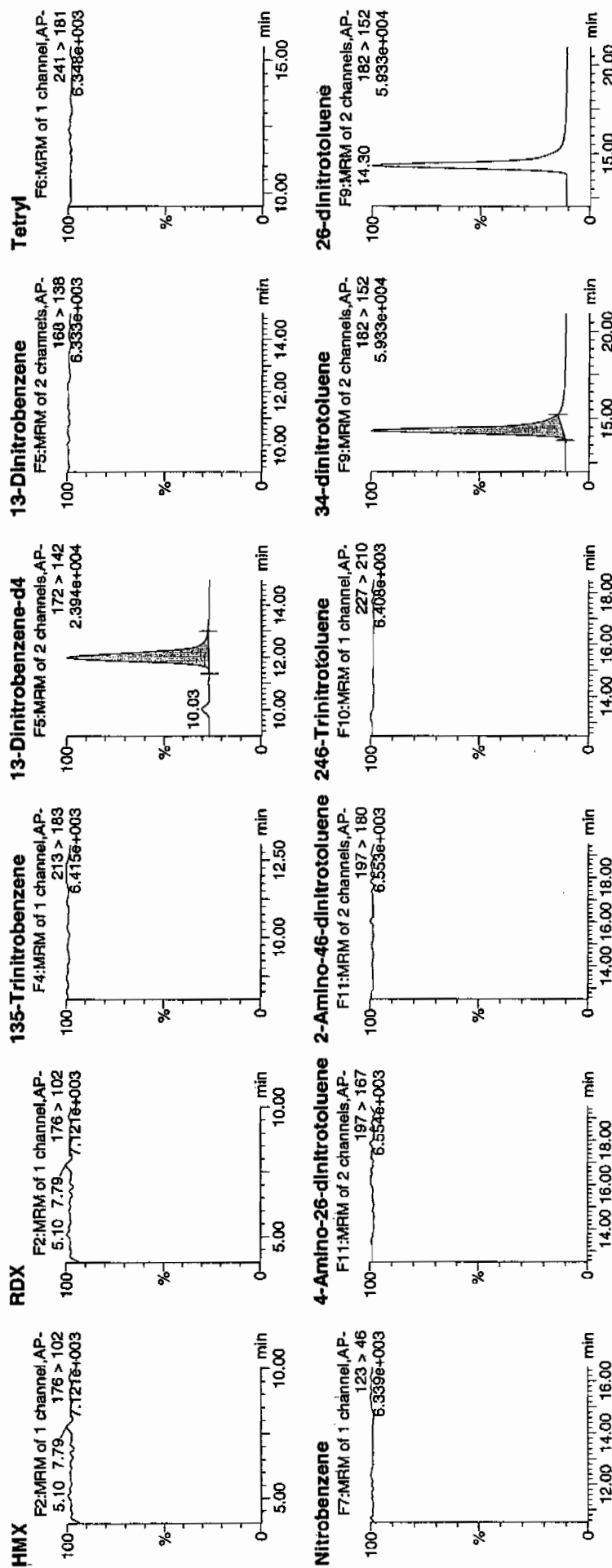
ID: 247897006

Vial: 2:2,D

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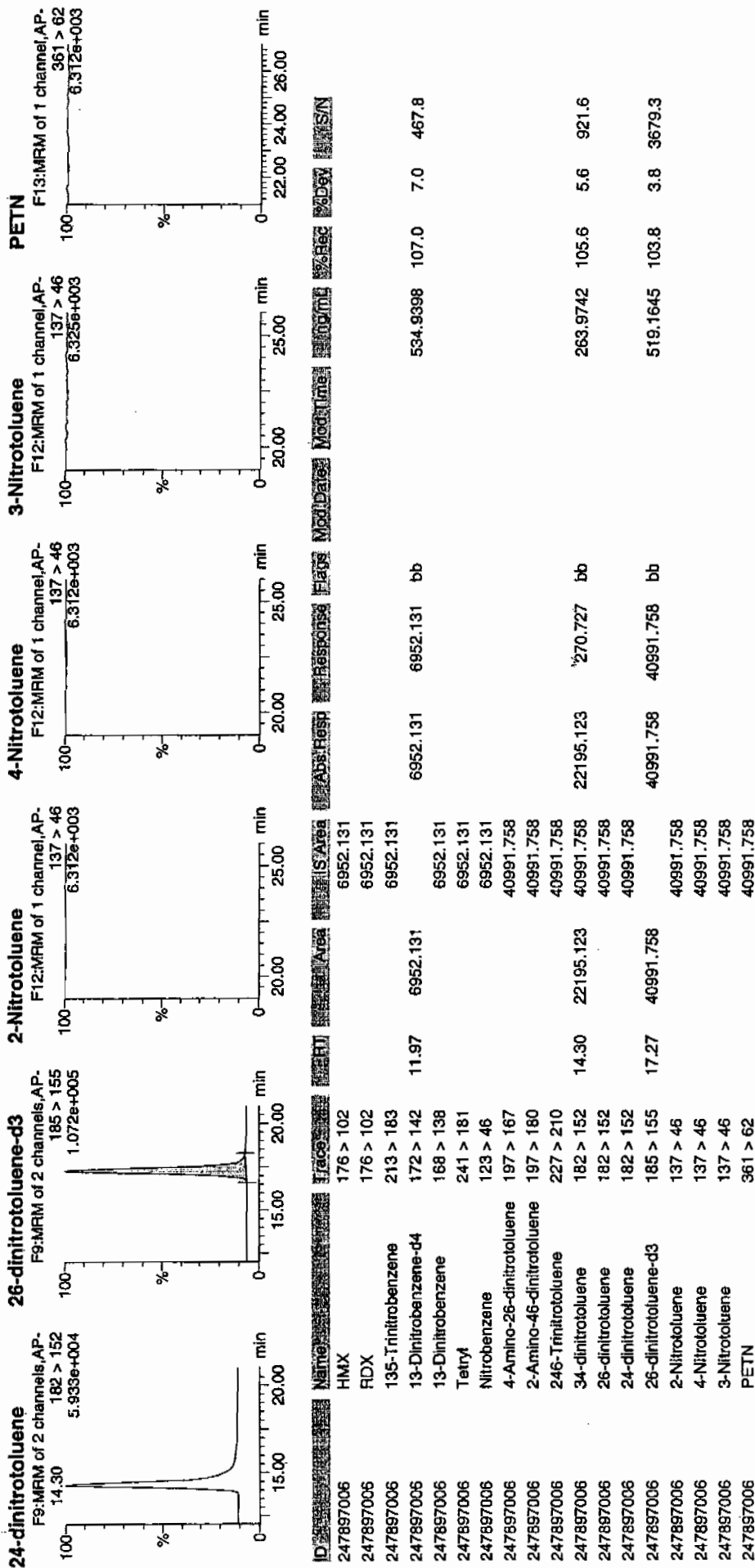
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Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 44 of 51

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



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7895

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897006

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220070.wiff

Date Analyzed: 23-MAR-10 09:17

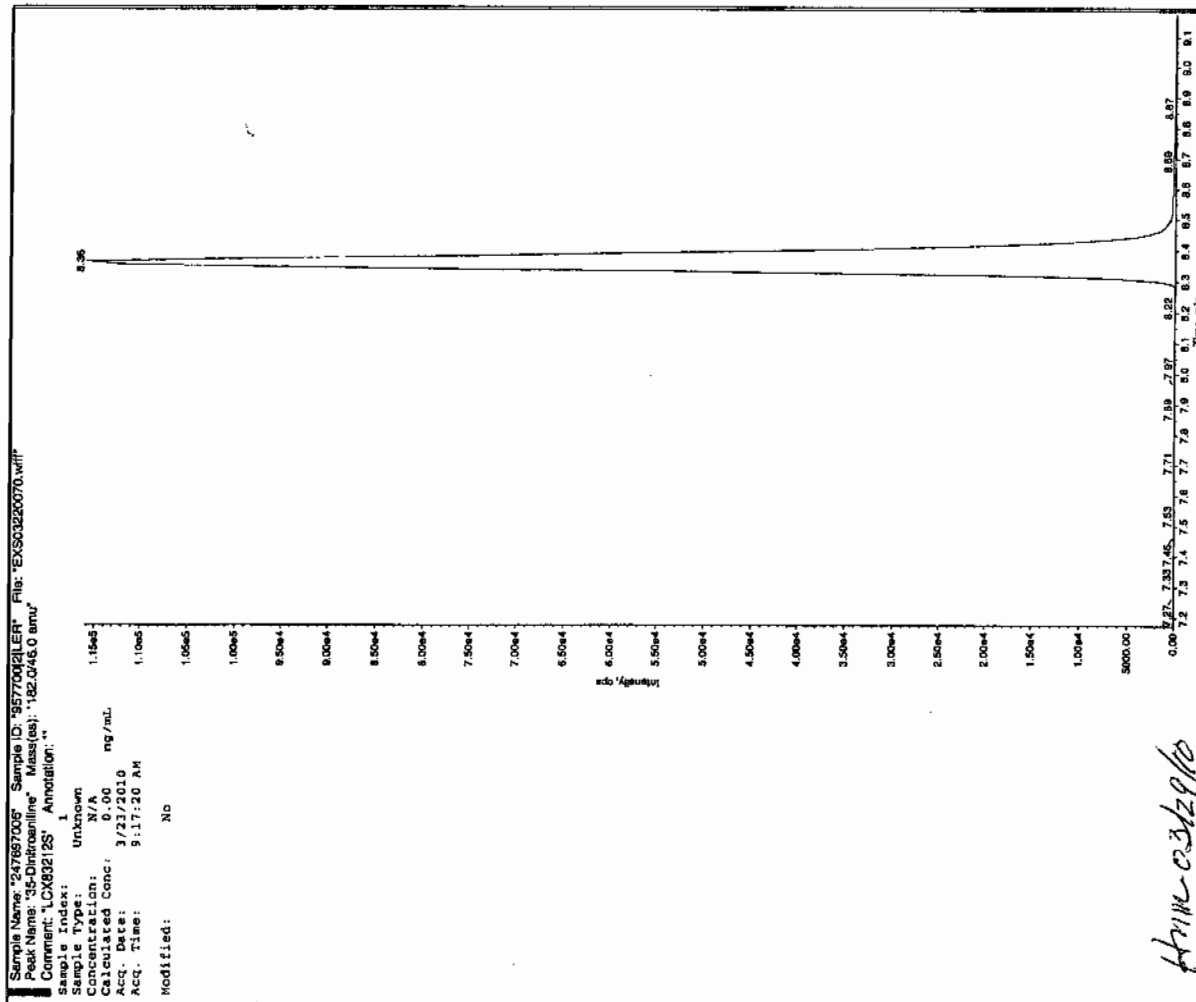
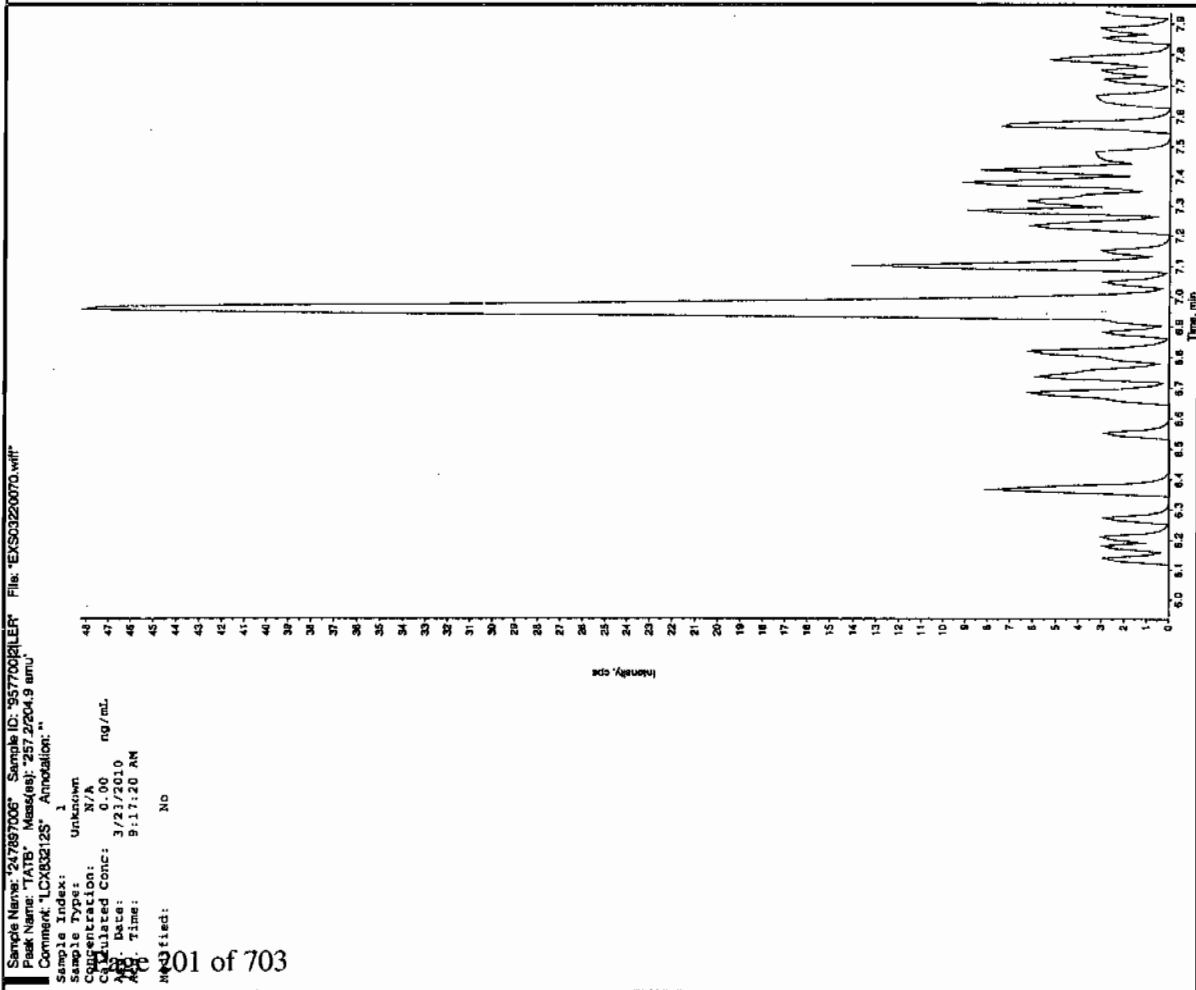
Units: ug/kg

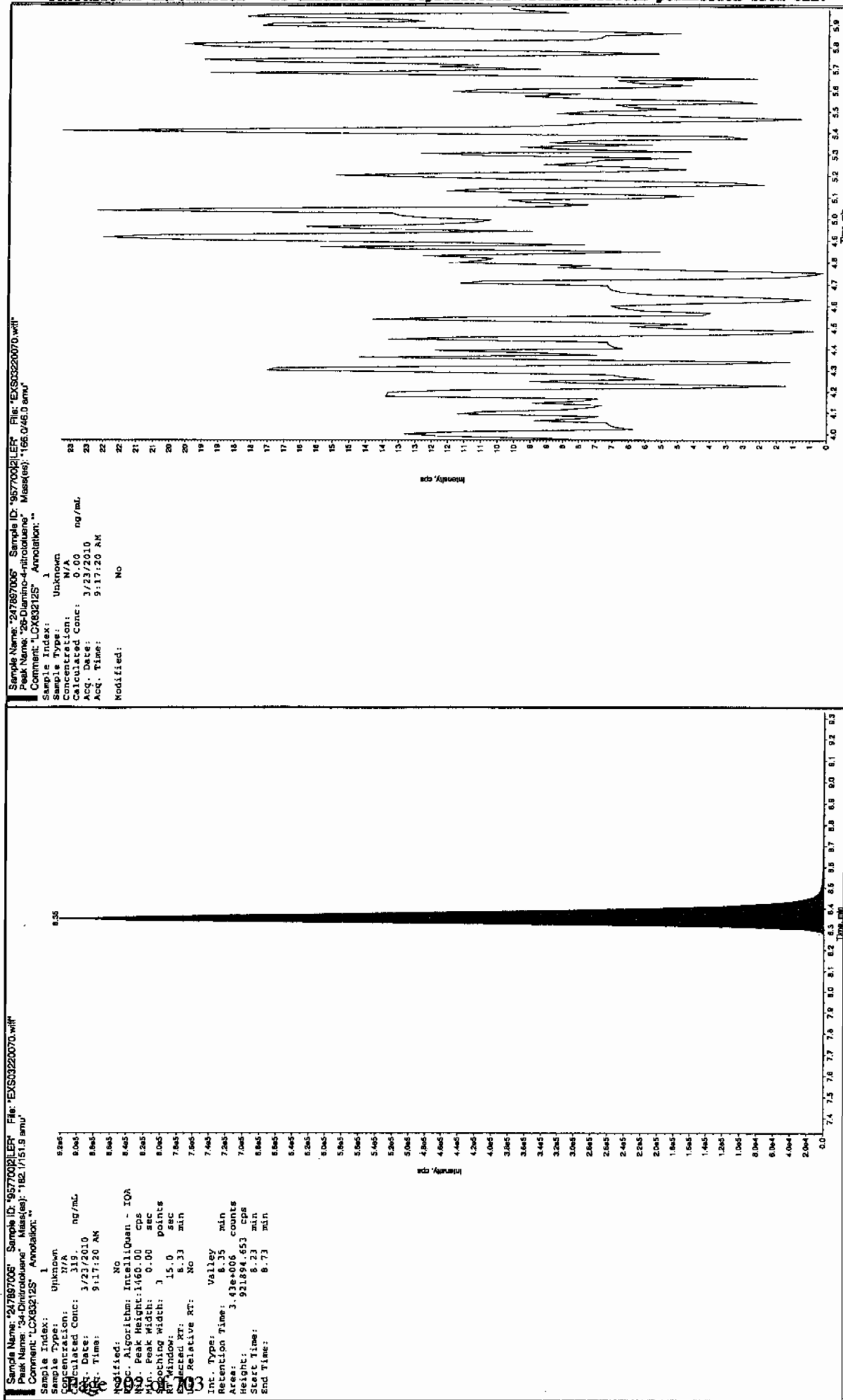
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

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Sample Name: "247887006" Sample ID: "95770021.ER" File: "EXS03220070.wif"

Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/81.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

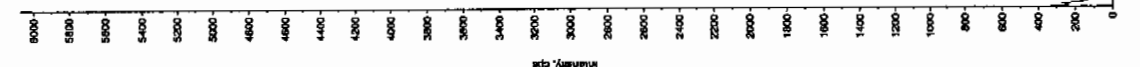
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 9:17:20 AM

Modified: No



Sample Name: "247887006" Sample ID: "95770021.ER" File: "EXS03220070.wif"

Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

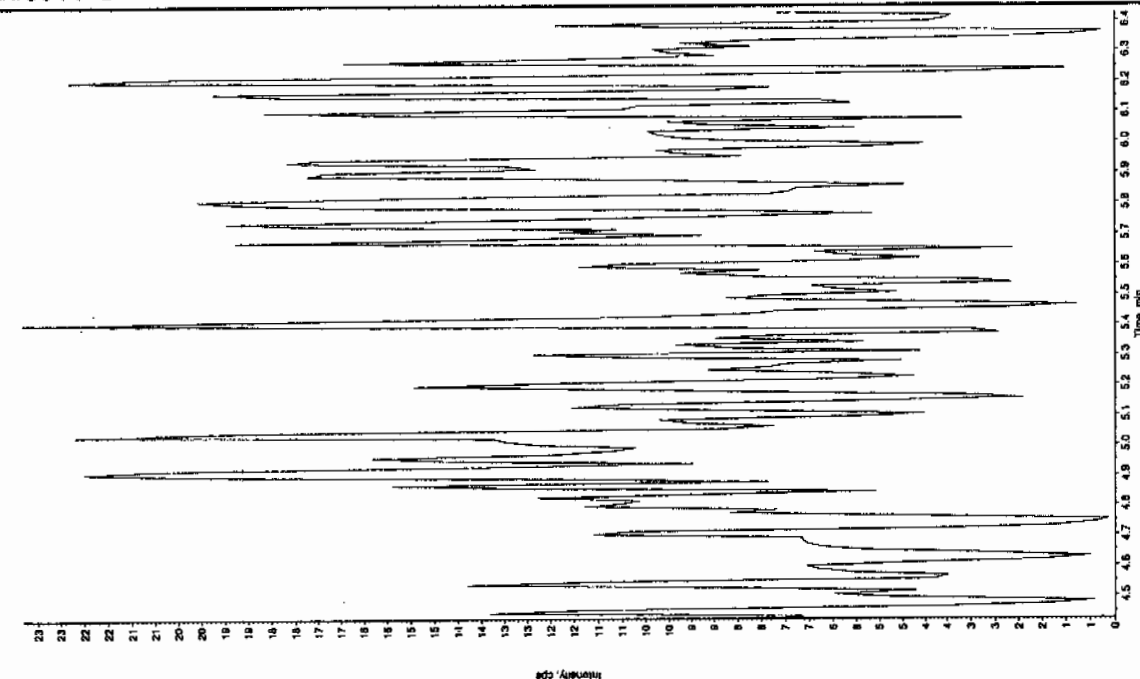
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 9:17:20 AM

Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7899

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897007

Sample Amount 2

Moisture: 18.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408026a

Date Analyzed: 09-APR-10 09:49

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 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\EXP0408026a

Date: 09-Apr-2010

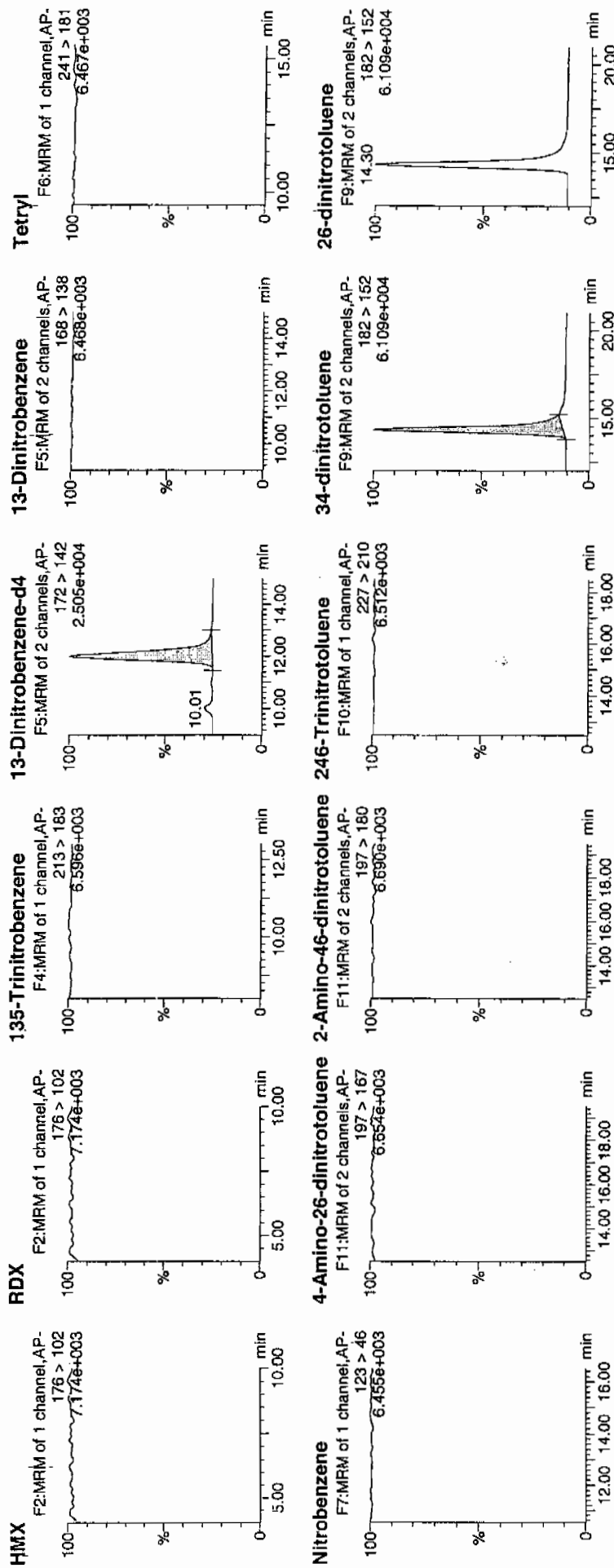
Time: 09:49:56

ID: 247897007

Vial: 2:2,E

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4/10/10

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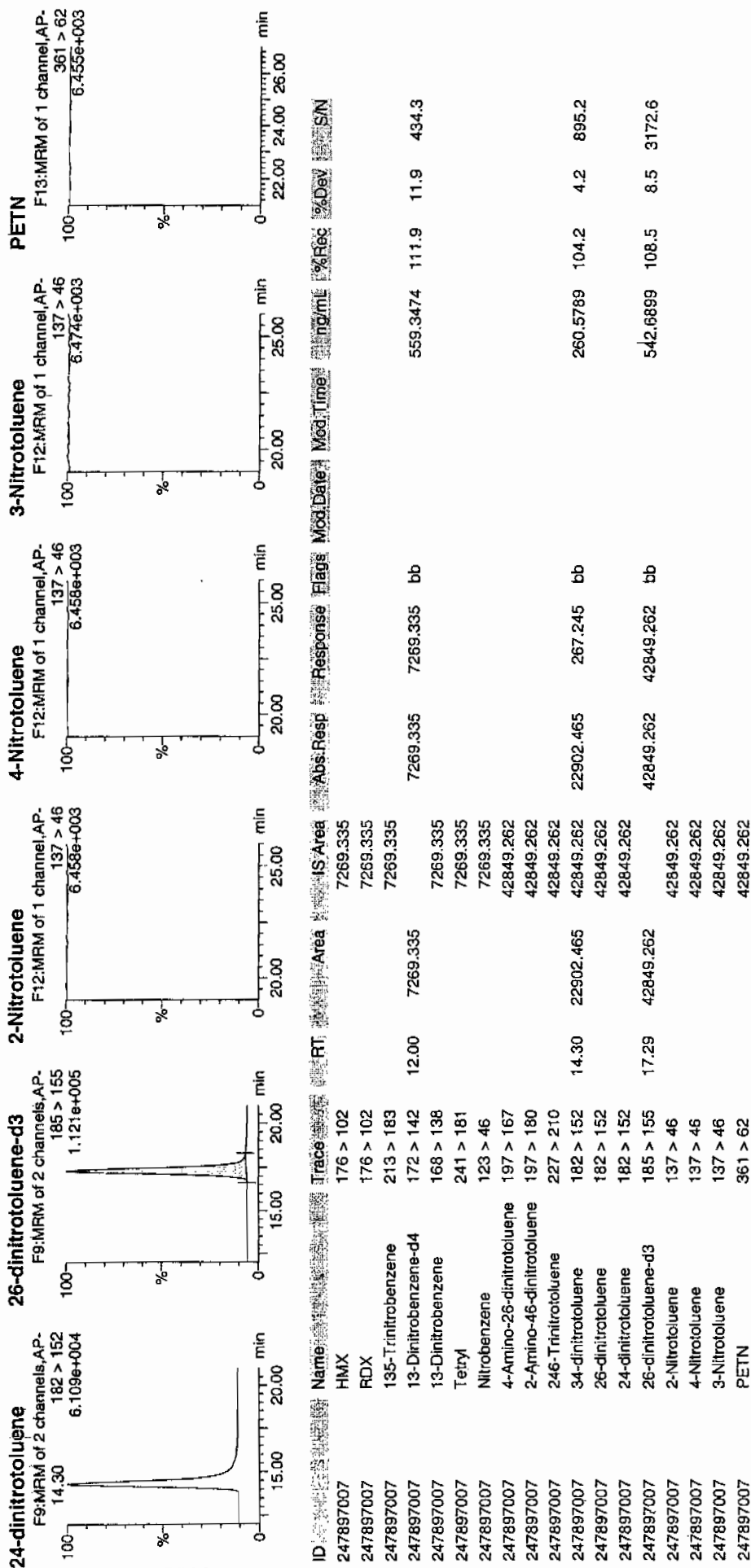
4/7
4/10/10

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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



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7899

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897007

Sample Amount 2

Moisture: 18.4

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220074.wiff

Date Analyzed: 23-MAR-10 10:20

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

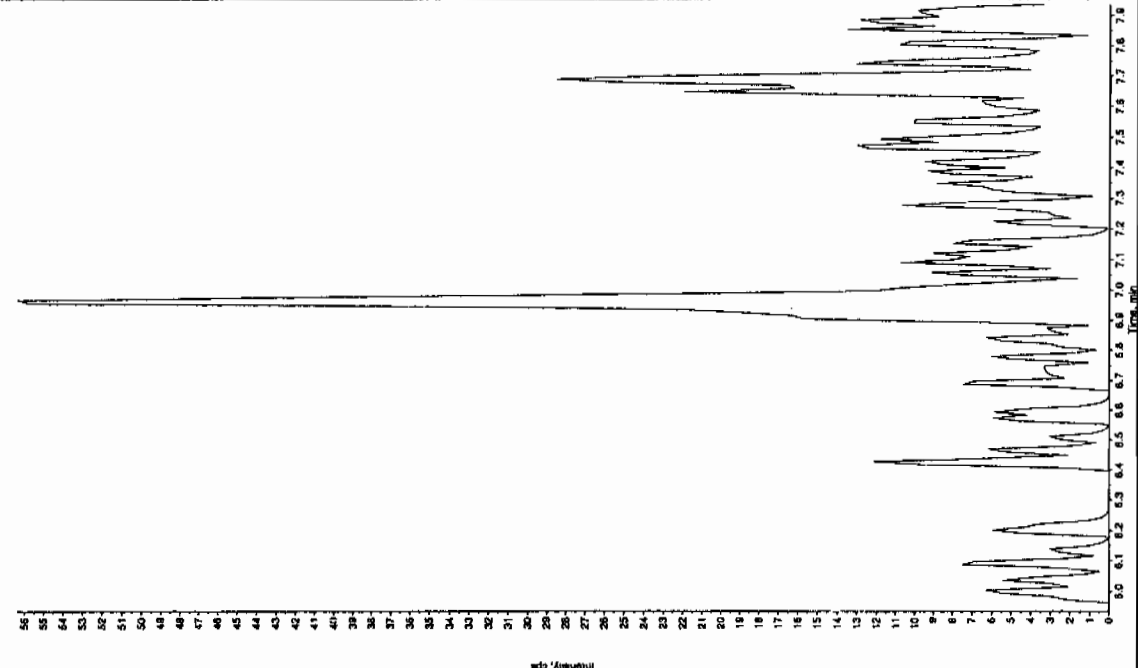
*Concentration =

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

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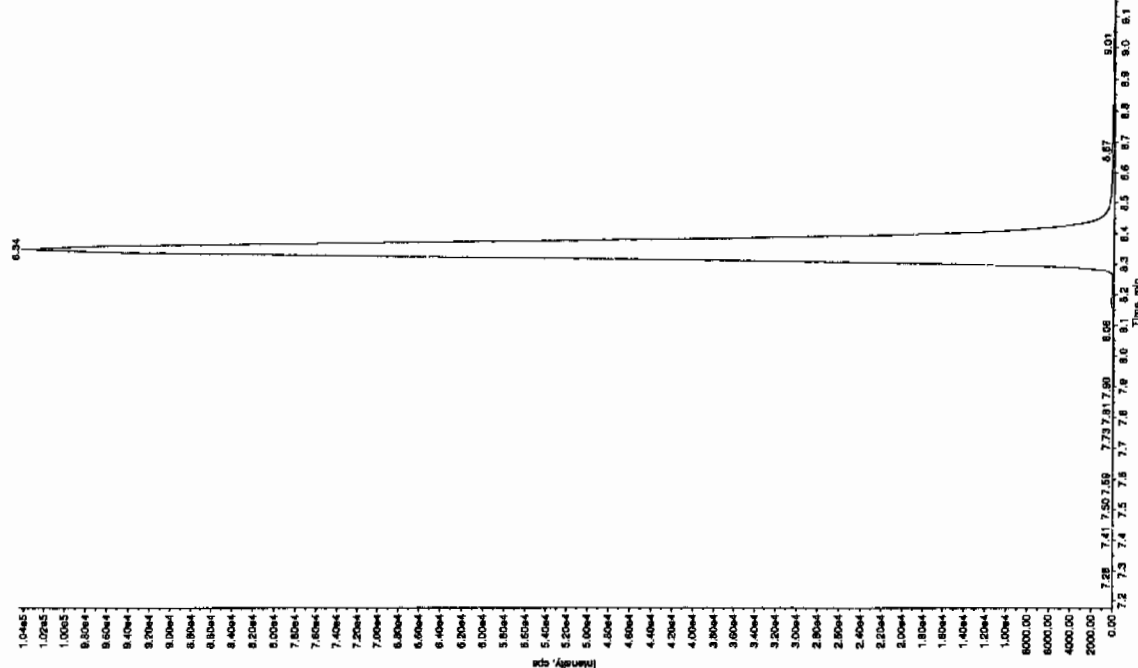
Sample Name: "247887007" Sample ID: "95770021LRF" File: "EXS03220074.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:20:08 AM
 Modified: No



Sample Name: "247887007" Sample ID: "95770021LRF" File: "EXS03220074.wif"
 Peak Name: "35-Dinitroresiline" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:20:08 AM
 Modified: No



Ken 3/27/10

Sample Name: 247897007 Sample ID: 95770021ER File: EX9303220074.wif
 Peak Name: 26-Diamino-4-nitrofluorene Mass(es): 166.046.0 amu
 Comment: LCX632125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Acq. Date: 3/23/2010
 Acq. Time: 10:20:08 AM
 Modified: No

28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

Intensity

Time, min

Sample Name: 247897007 Sample ID: 95770021ER File: EX9303220074.wif
 Peak Name: 34-Diaminofluorene Mass(es): 162.151.9 amu
 Comment: LCX632125 Annotation: "

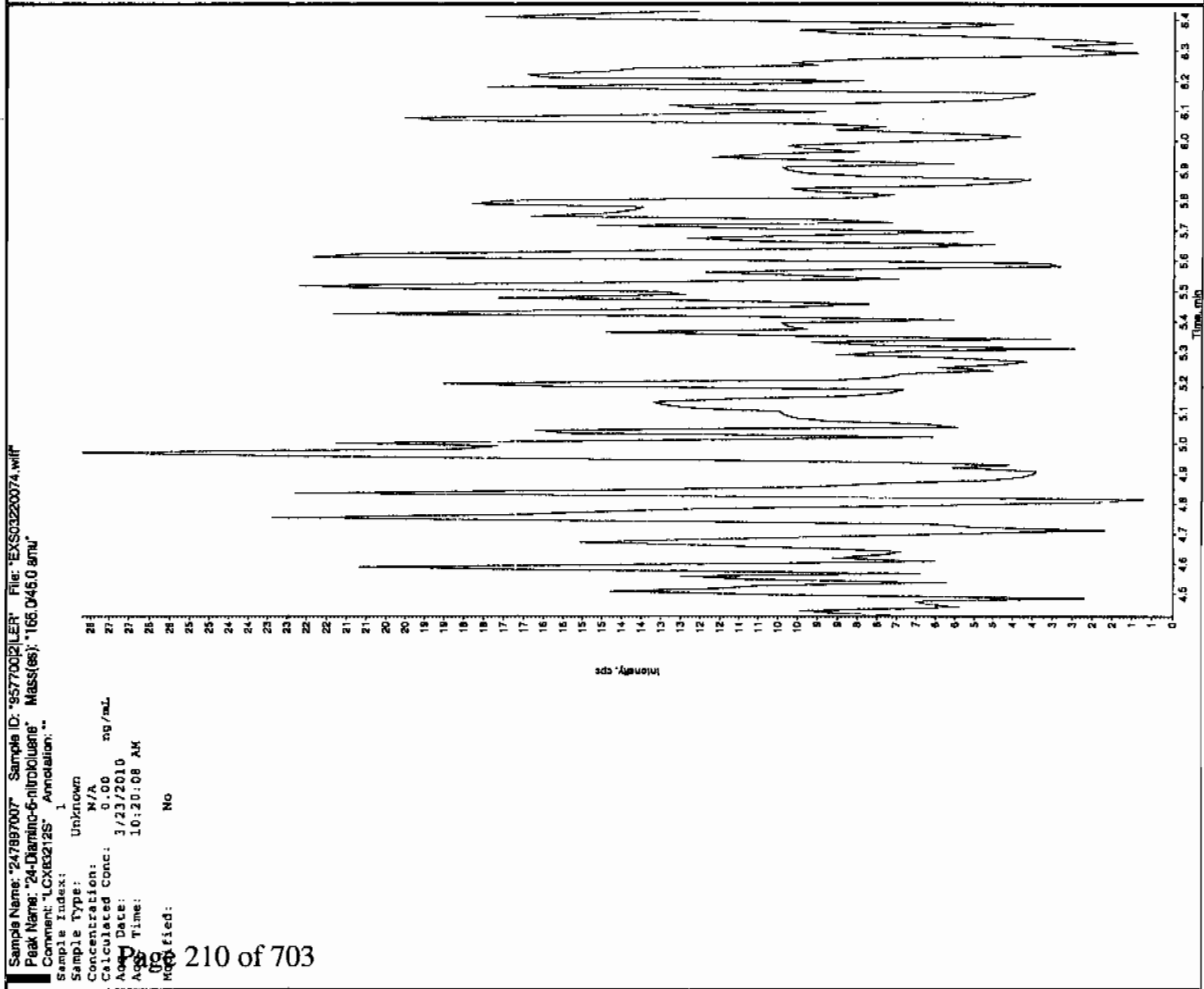
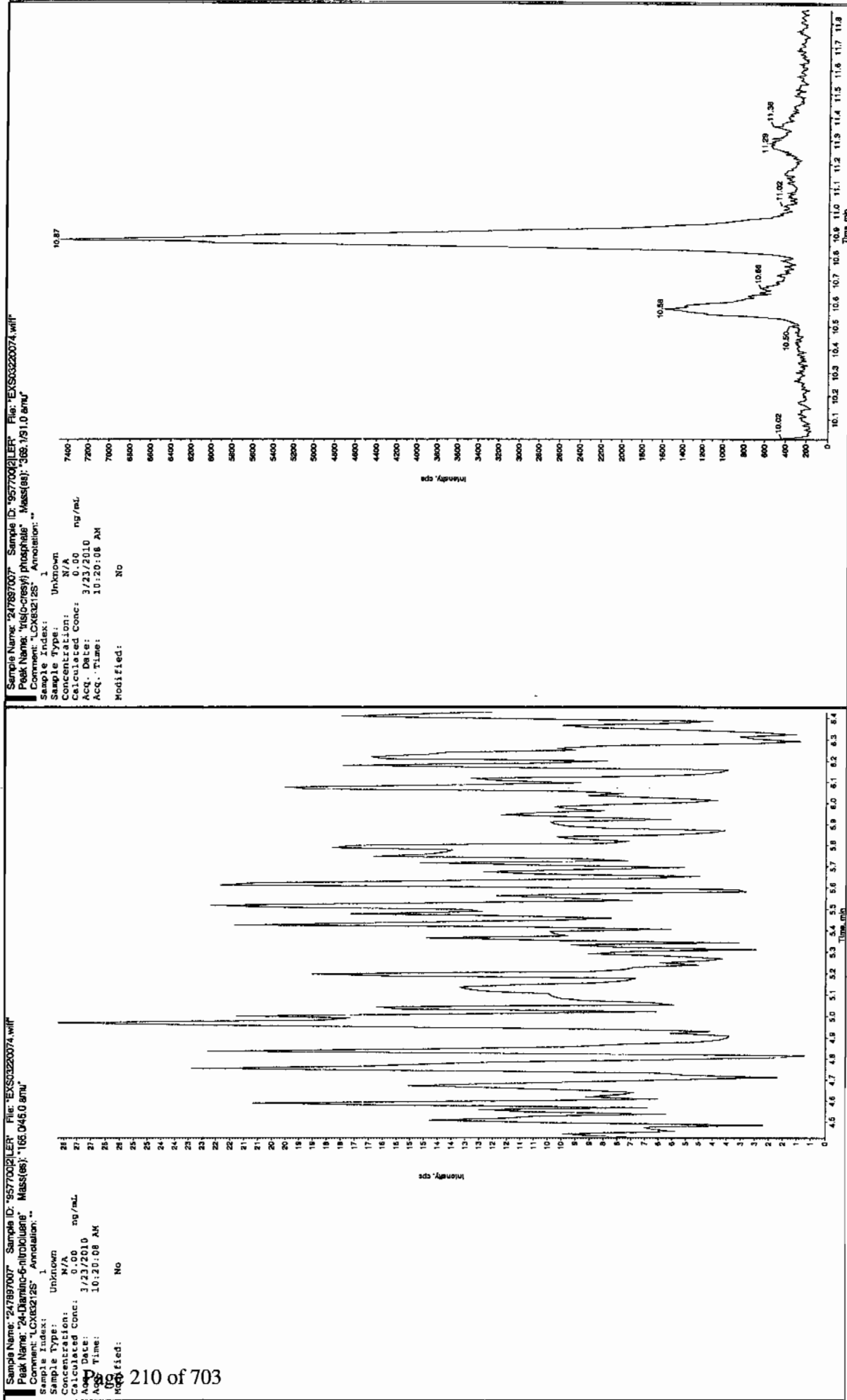
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Acq. Date: 3/23/2010
 Acq. Time: 10:20:08 AM
 Modified: No

Pre-Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 User-Relative RT: No
 Type: Valley
 Retention Time: 8.33 min
 Abundance: 3.05e+006 counts
 Height: 805879.944 cps
 Start Time: 8.23 min
 End Time: 8.71 min

8.0e5
7.5e5
7.0e5
6.5e5
6.0e5
5.5e5
5.0e5
4.5e5
4.0e5
3.5e5
3.0e5
2.5e5
2.0e5
1.5e5
1.0e5
5.0e4
0.0

Intensity, cps

Time, min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7893

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897008

Sample Amount 2

Moisture: 28.0

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408027a

Date Analyzed: 09-APR-10 10:19

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report

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\EXP0408027a

Date: 09-Apr-2010

Time: 10:19:28

ID: 247897008

Val: 2:2,F

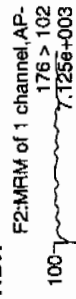
not
4/10/10

LAJ 957700 / 8000 / 21

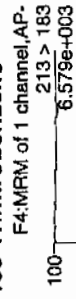
OHMX



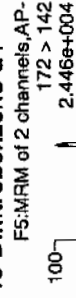
RDX



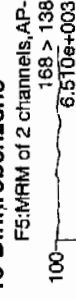
135-Trinitrobenzene



13-Dinitrobenzene-d4



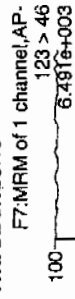
13-Dinitrobenzene



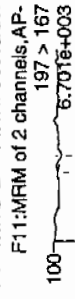
Tetryl



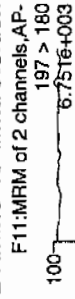
Nitrobenzene



4-Amino-26-dinitrotoluene



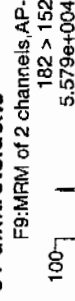
2-Amino-46-dinitrotoluene



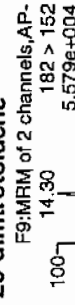
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



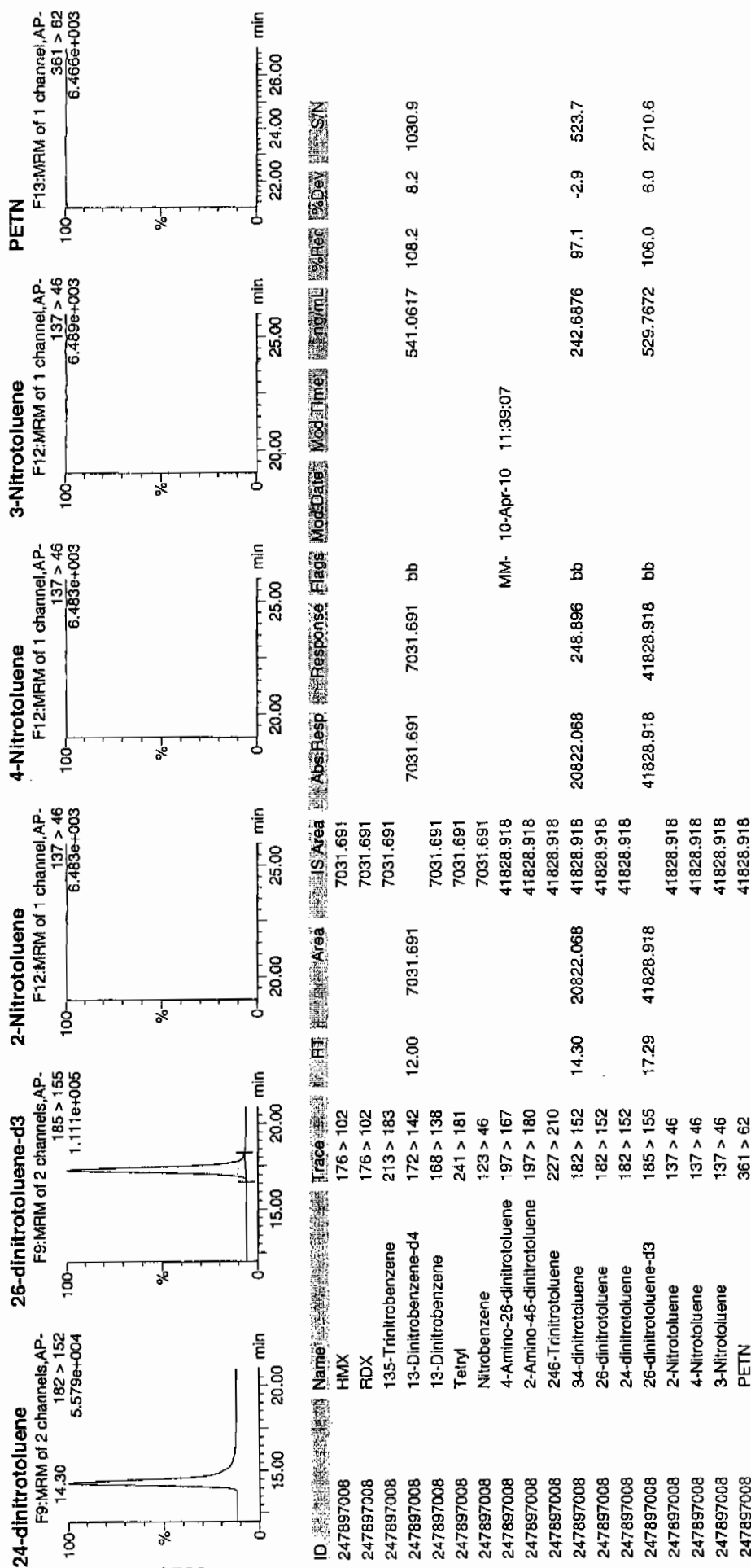
Amu 4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 4 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: RE15-10-7893

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897008

Sample Amount 2

Moisture: 28.0

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220075.wiff

Date Analyzed: 23-MAR-10 10:35

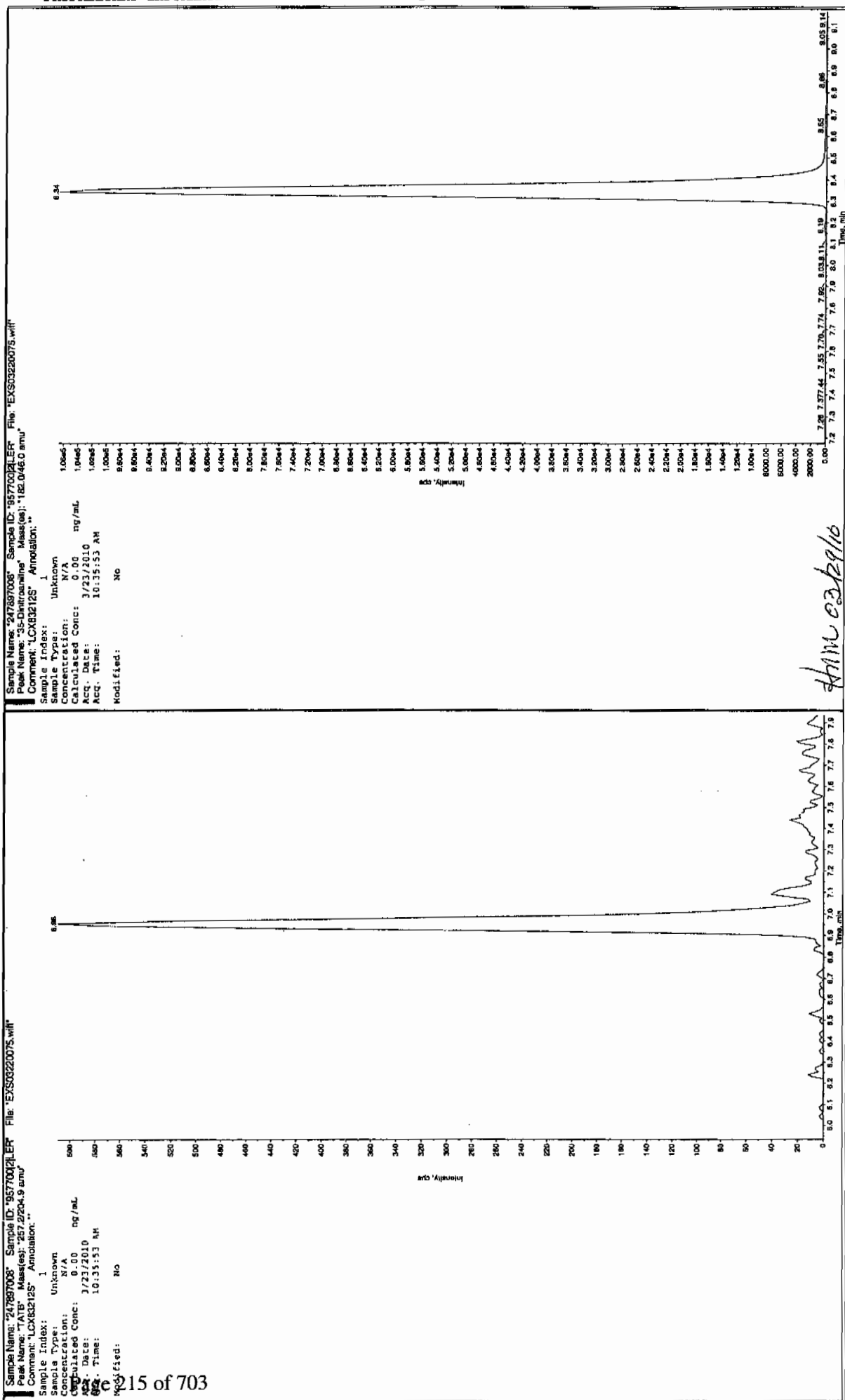
Units: ug/kg

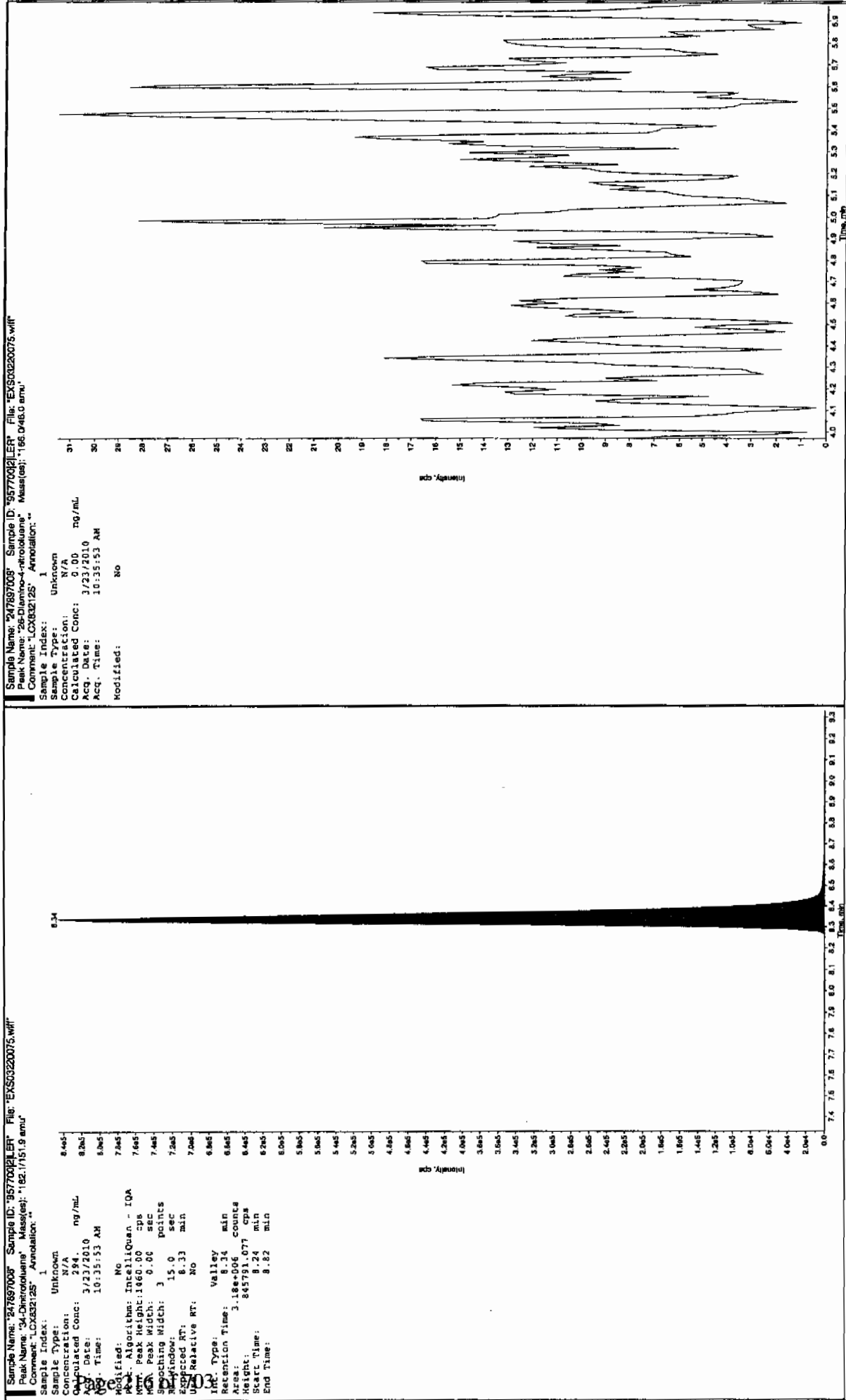
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

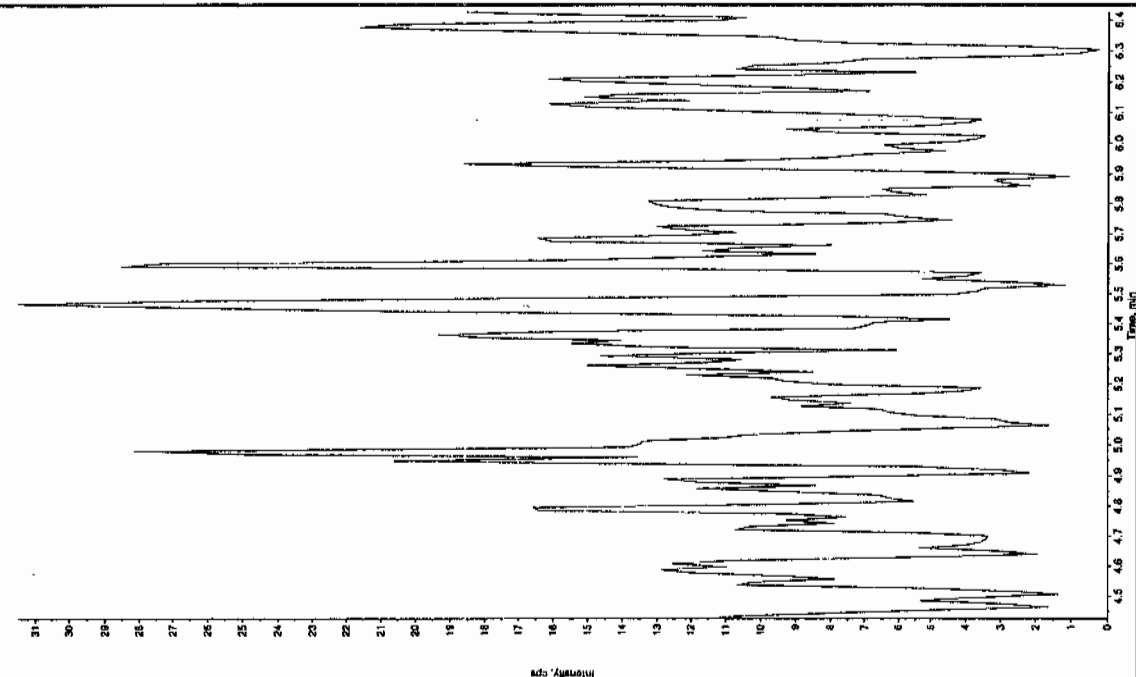
San 3/27/10





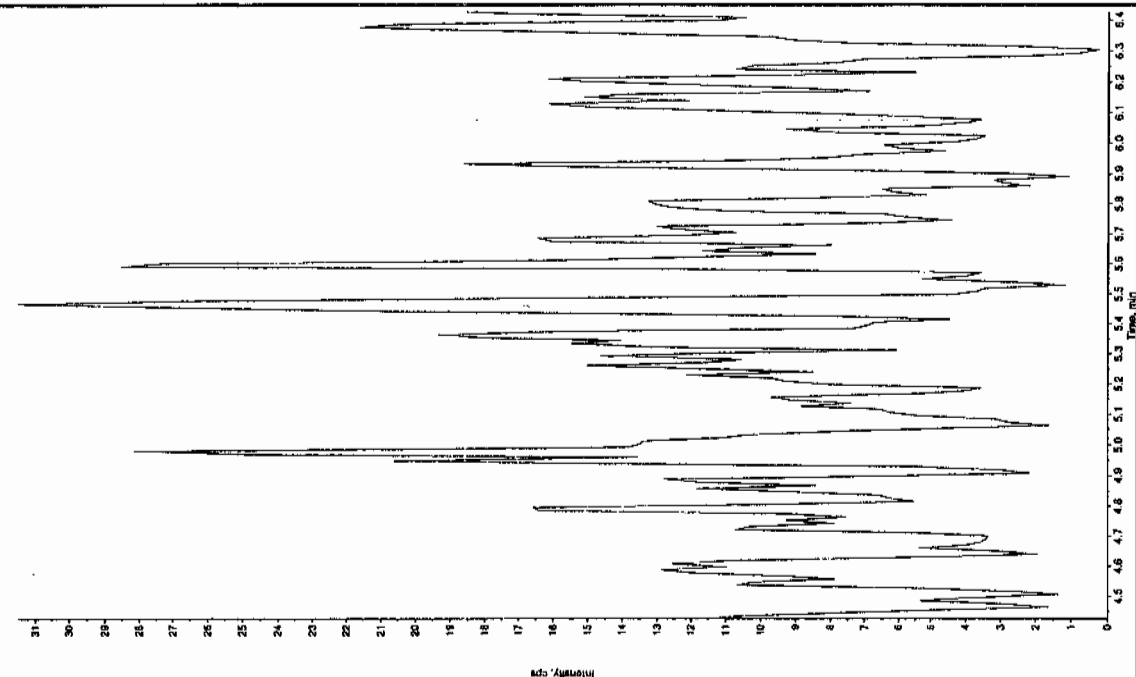
Sample Name: "247897008" Sample ID: "55770021LER" File: "EX50320075.wi"
 Peak Name: "trio-cresyl phosphate" Mass(es): "385.1/91.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Estimated Conc: N/A ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:15:53 AM
 Modified: No



Sample Name: "247897008" Sample ID: "55770021LER" File: "EX50320075.wi"
 Peak Name: "24-Diamino-6-nitrochlorine" Mass(es): "166.0/46.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Estimated Conc: N/A ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:15:53 AM
 Modified: No



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8011

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408082a

Date Analyzed: 10-APR-10 13:25

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408082a

Date: 10-Apr-2010

Time: 13:25:29

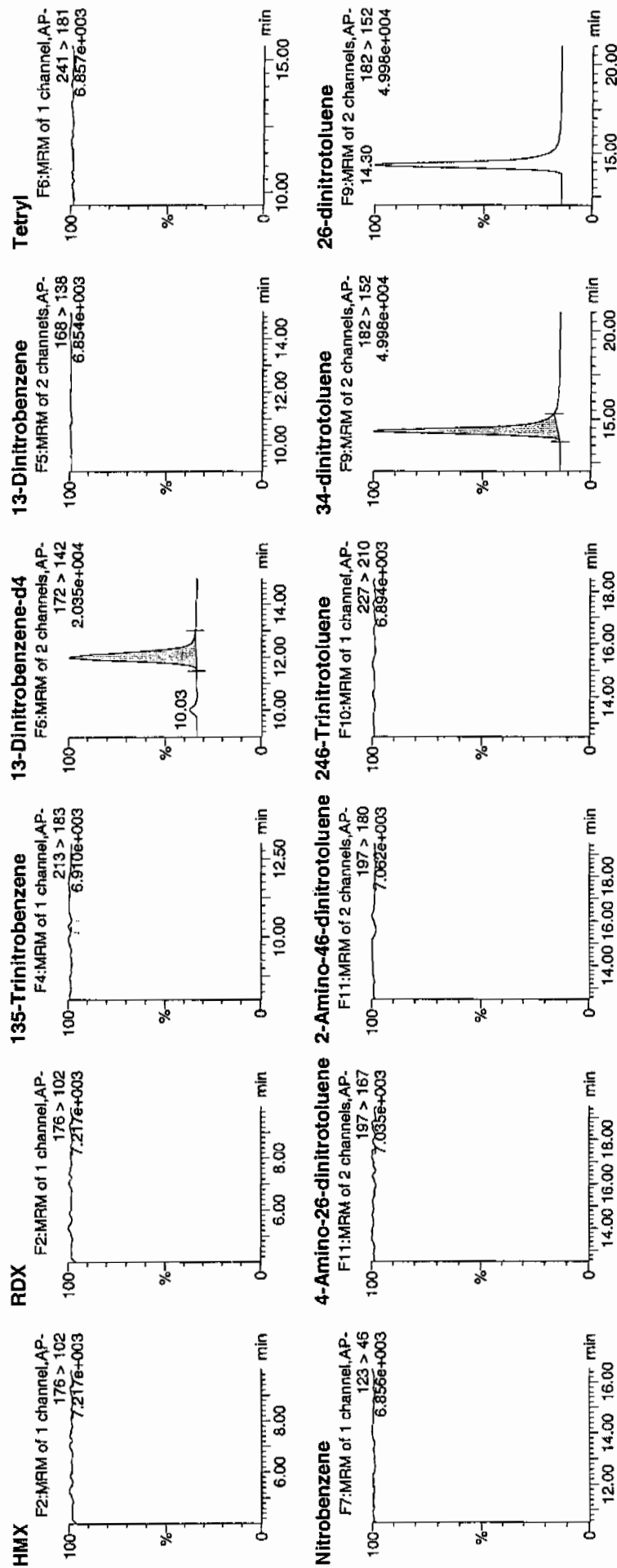
ID: 247897009

Vial: 1:3,A

Handwritten: 4/11/10

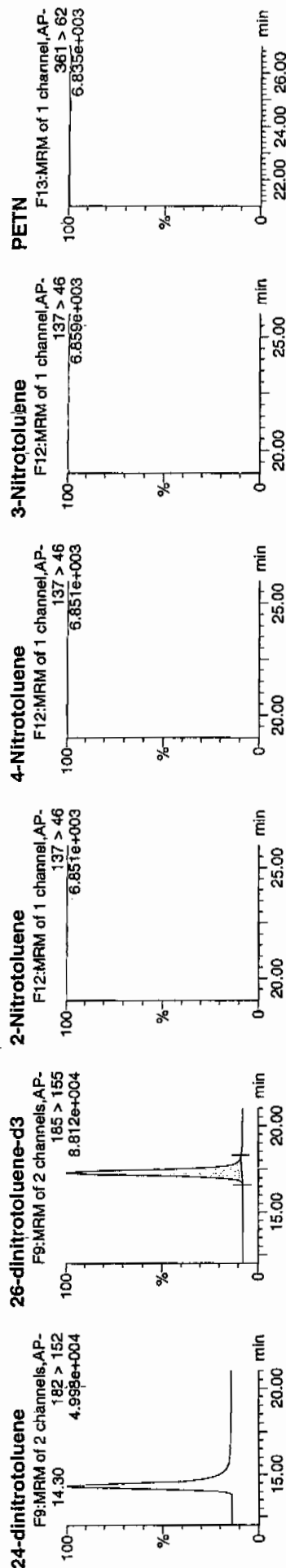
Handwritten: 12176+003 / 8032 / 21

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Handwritten: 4/11/10

Dataset: C:\MASSLYNX\New_Exp\PROV040810expA2.qid, Time: Sun Apr 11 11:45:05 2010



ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	Mod Dev	Mod SN
247897009	HMX	176 > 102		5304.298								
247897009	RDX	176 > 102		5304.298								
247897009	135-Trinitrobenzene	213 > 183		5304.298								
247897009	13-Dinitrobenzene-d4	172 > 142	12.00	5304.298		5304.298	5304.298	bb	MM- 11-Apr-10	11:32:46	408.1454	81.6 -18.4 303.6
247897009	13-Dinitrobenzene	188 > 138		5304.298								
247897009	Tetryl	241 > 181		5304.298								
247897009	Nitrobenzene	123 > 46		5304.298								
247897009	4-Amino-26-dinitrotoluene	197 > 167		32775.715								
247897009	2-Amino-46-dinitrotoluene	197 > 180		32775.715								
247897009	246-Trinitrotoluene	227 > 210		32775.715								
247897009	34-dinitrotoluene	182 > 152	14.30	18550.496		18550.496	282.991	bb			275.9331	110.4 10.4 840.0
247897009	26-dinitrotoluene	182 > 152		32775.715								
247897009	24-dinitrotoluene	182 > 152		32775.715								
247897009	26-dinitrotoluene-d3	185 > 155	17.29	32775.715		32775.715	32775.715	bb			415.1075	83.0 -17.0 580.4
247897009	2-Nitrotoluene	137 > 46		32775.715								
247897009	4-Nitrotoluene	137 > 46		32775.715								
247897009	3-Nitrotoluene	137 > 46		32775.715								
247897009	PETN	361 > 62		32775.715								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8011

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220076.wiff

Date Analyzed: 23-MAR-10 10:51

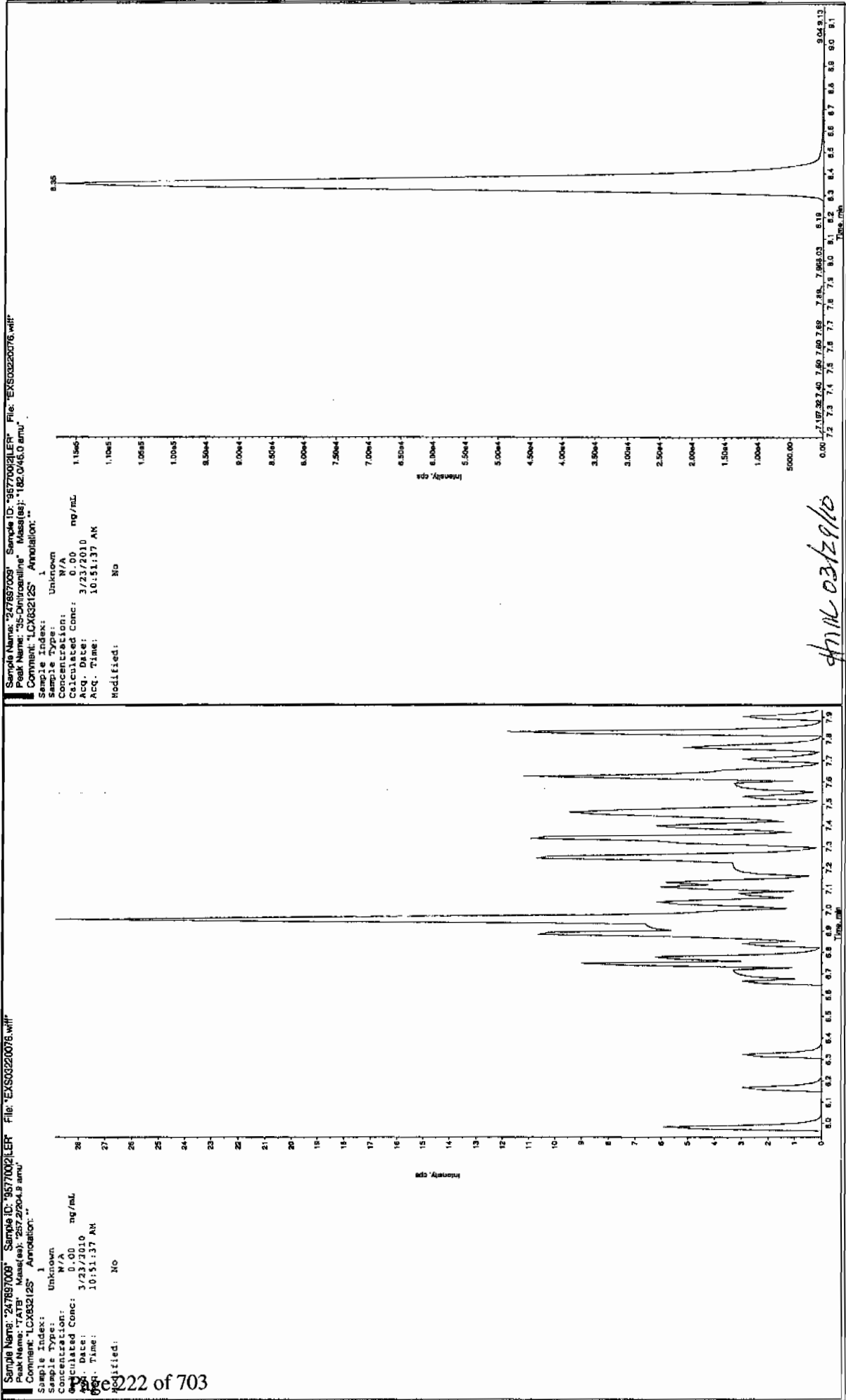
Units: ug/kg

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

*Concentration =

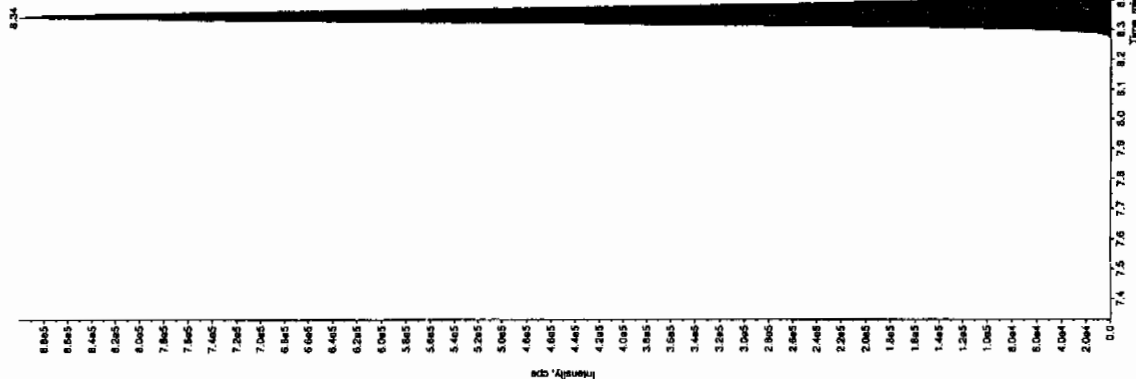
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

San 3/27/10



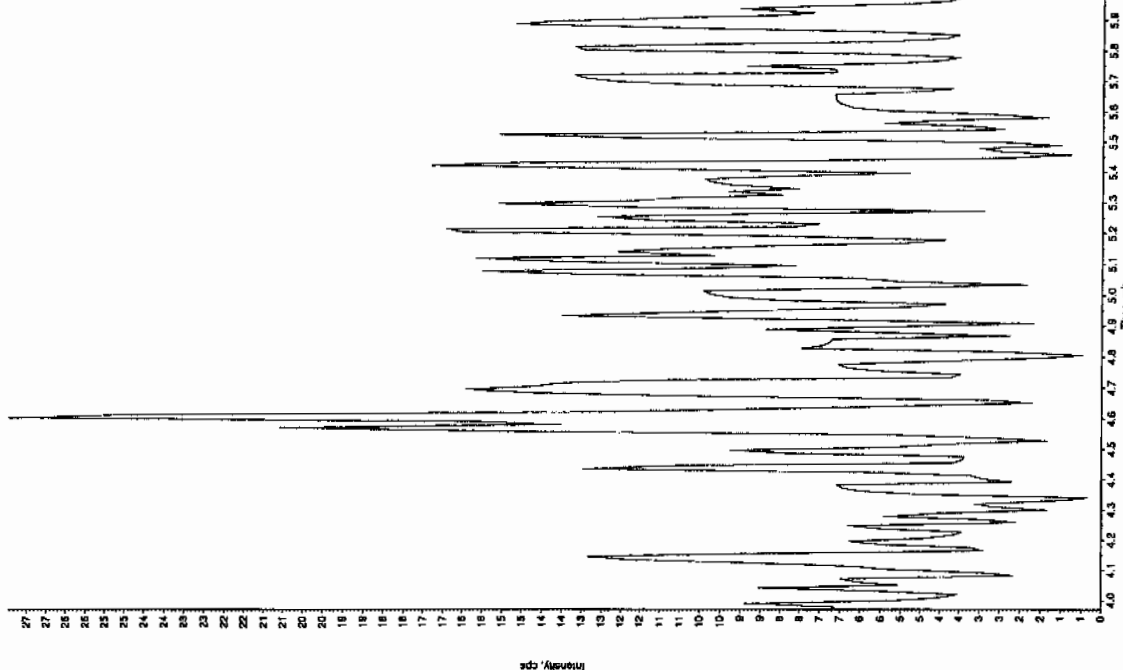
Sample Name: 247897008 Sample ID: 9577002LER File: EX503220078.wif
 Peak Name: 34-Chlorocholesterol Mass(es): 162.1751.9 amu
 Comment: LCX632125 Annotation: -

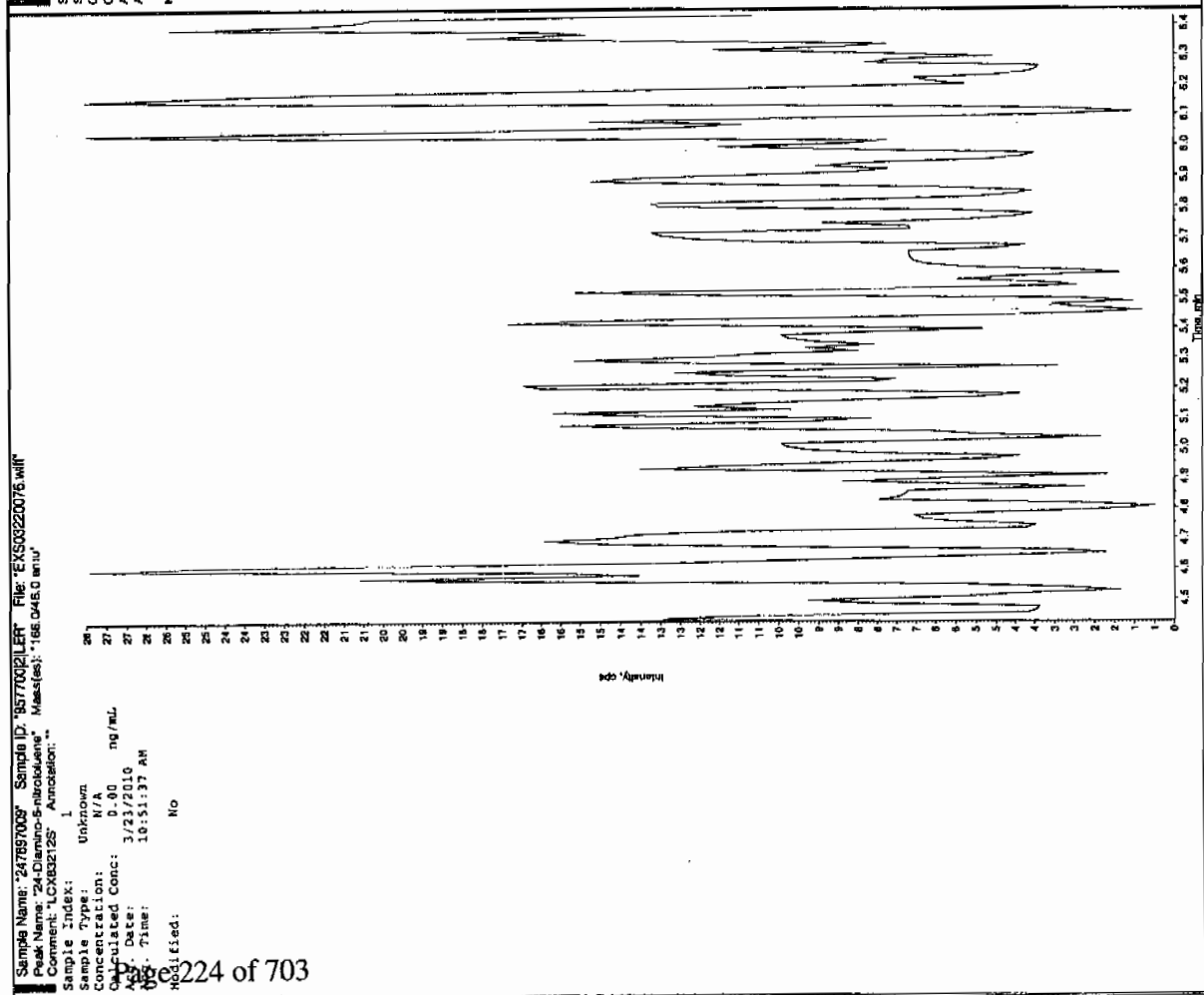
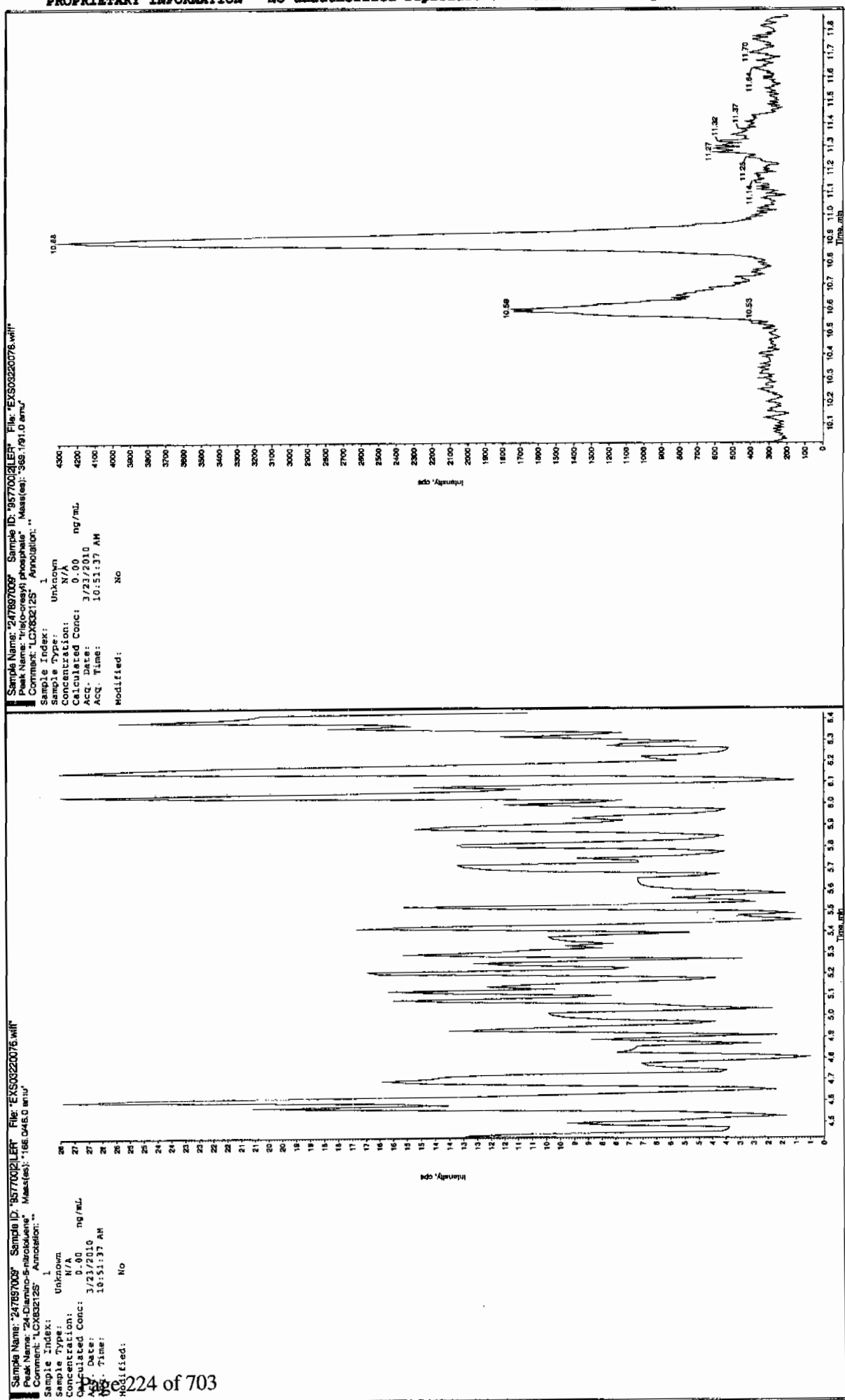
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 314 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:51:37 AM
 Modified: No
 Acq. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Relative RT: No
 Int. Type: Valley
 Retention Time: 8.24 min
 Peak Height: 3.39e+006 counts
 Height: 899623.779 cps
 Start Time: 8.24 min
 End Time: 8.73 min



Sample Name: 247897008 Sample ID: 9577002LER File: EX503220078.wif
 Peak Name: 25-Diamino-4-methylcholesterol Mass(es): 168.046.0 amu
 Comment: LCX632125 Annotation: -

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 314 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 10:51:37 AM
 Modified: No





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8004

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408083a

Date Analyzed: 10-APR-10 13:54

Units: ug/kg

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

*Concentration =

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

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408083a

Date: 10-Apr-2010

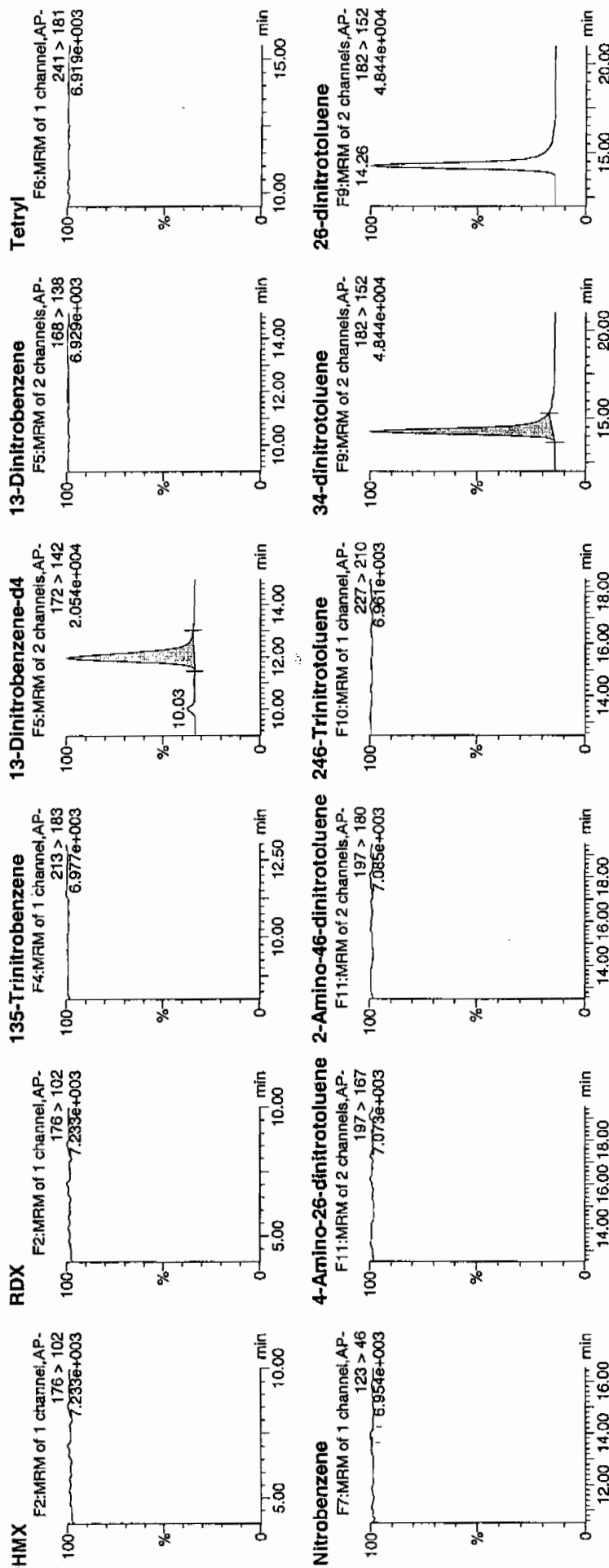
Time: 13:54:59

ID: 247897010

Vial: 1:3,B

4/11/10

WALC 957700 / 8022 / 12 /



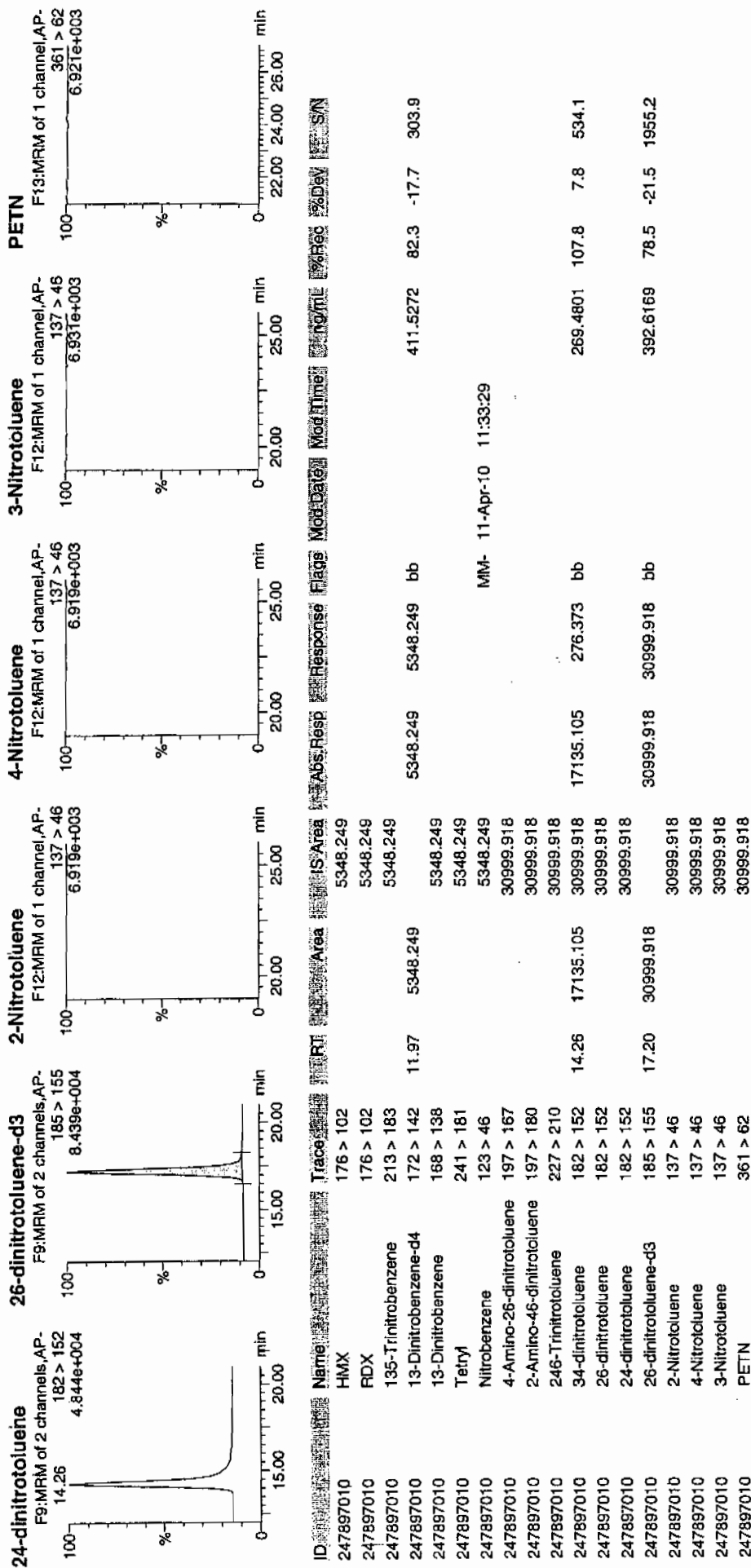
4/11/10

Quantity Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\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: RE15-10-8004

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220077.wiff

Date Analyzed: 23-MAR-10 11:07

Units: ug/kg

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

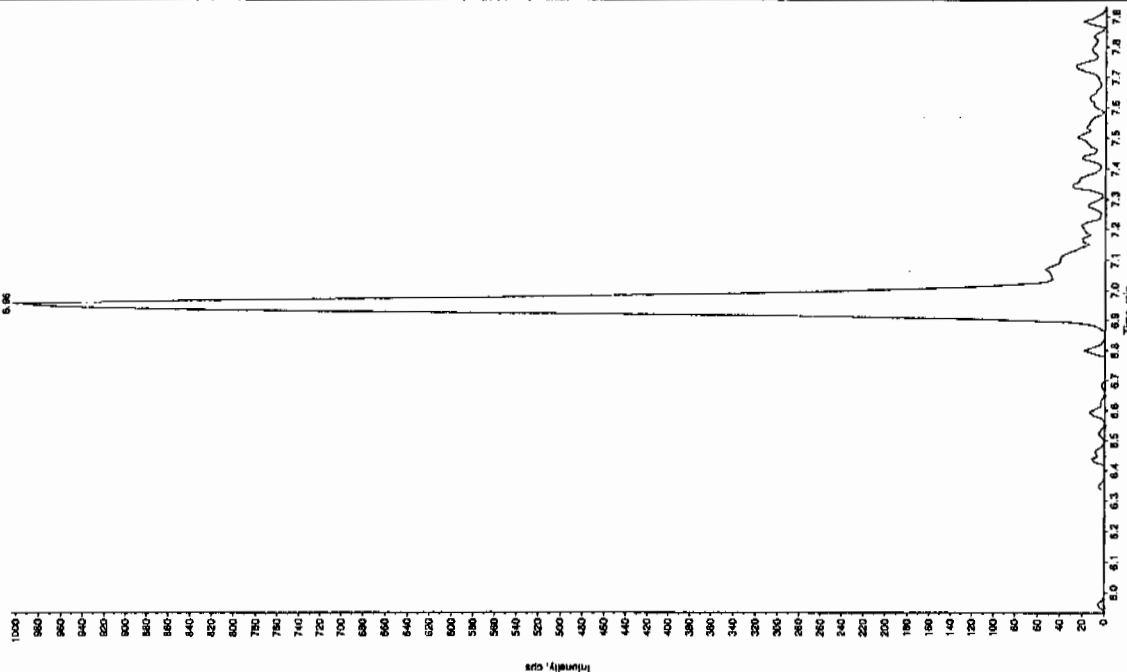
*Concentration =

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

Jan 3/23/10

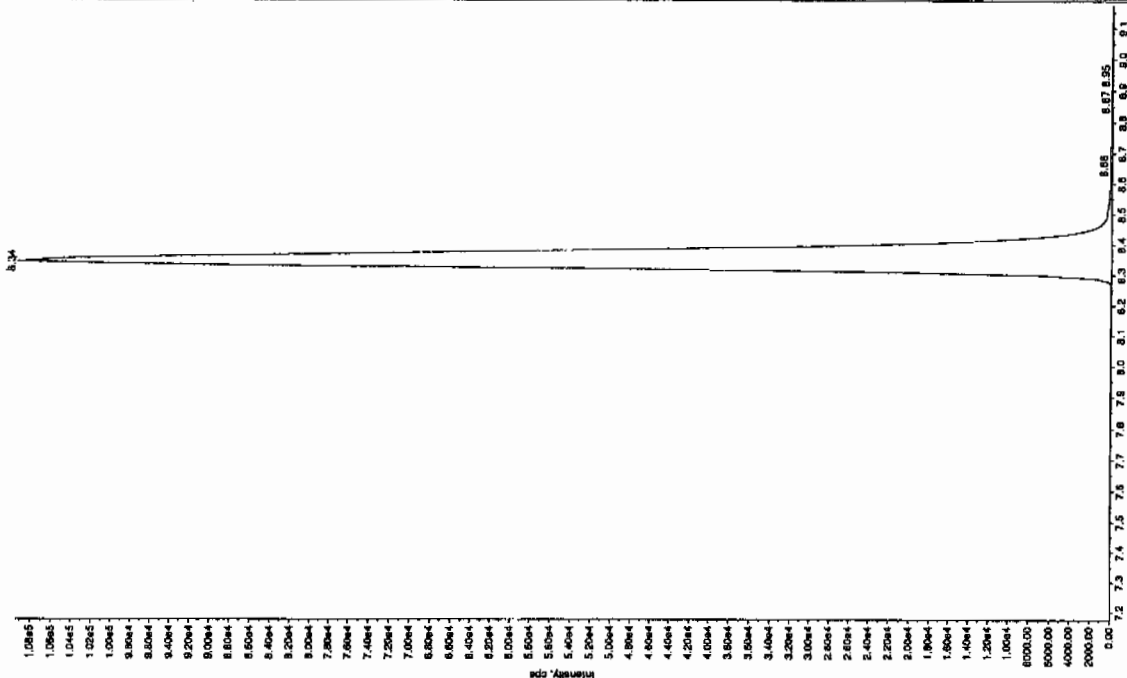
Sample Name: 247897010 Sample ID: 95770010L File: EXSC022007.wml
 Peak Name: 35-Dinitroaniline Mass(es): 162.046.0 amu
 Comment: LCX832125 Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:07:19 AM
 Modified: No

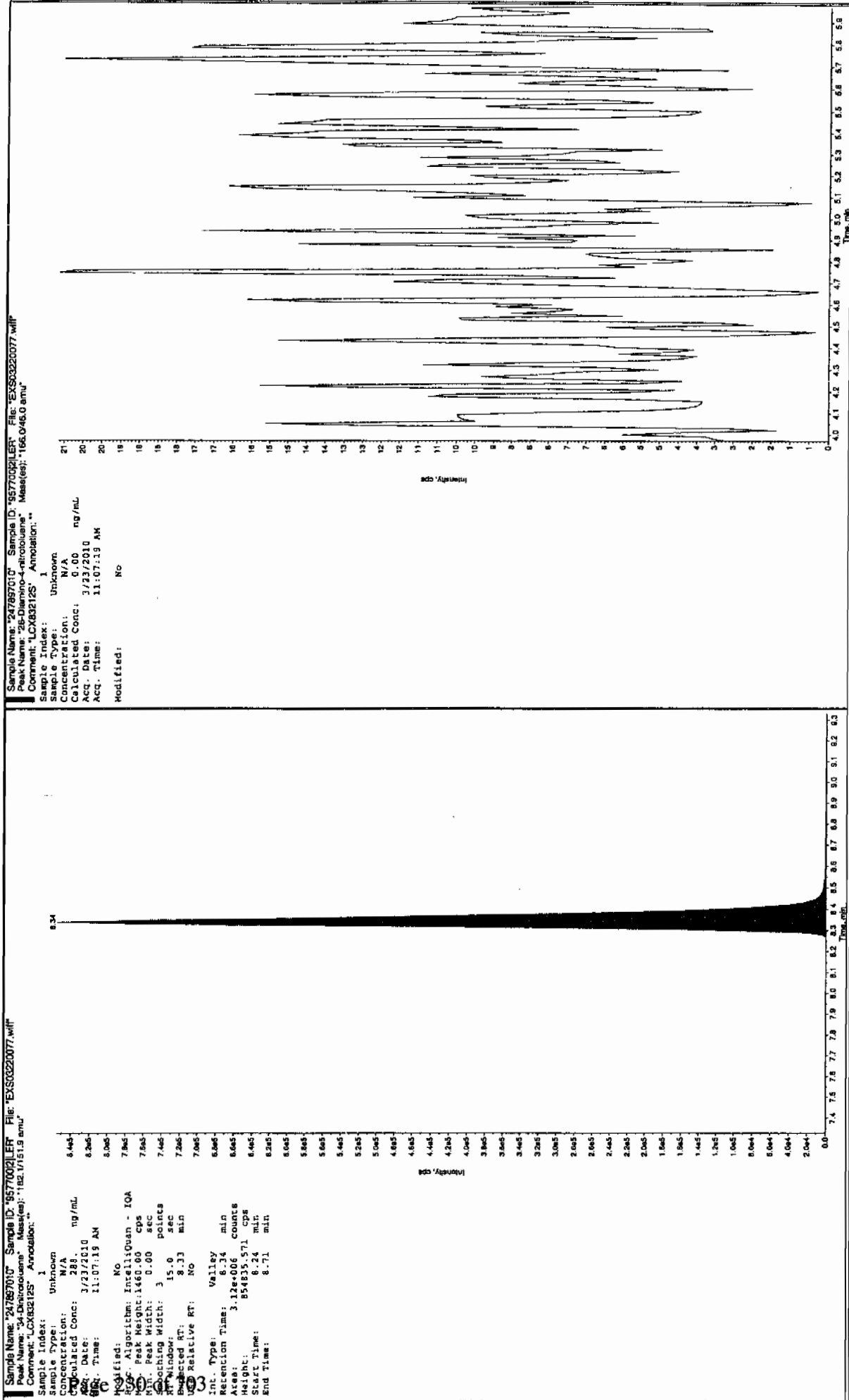


Sample Name: 247897010 Sample ID: 95770010L File: EXSC022007.wml
 Peak Name: 35-Dinitroaniline Mass(es): 162.046.0 amu
 Comment: LCX832125 Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:07:19 AM
 Modified: No



Jan 3/23/10



Sample Name: "247897010" Sample ID: "95770021ER" File: "EXS03220077.wiff"

Peak Name: "tris(o-cresyl) phosphate" Mass(es): "359.151.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

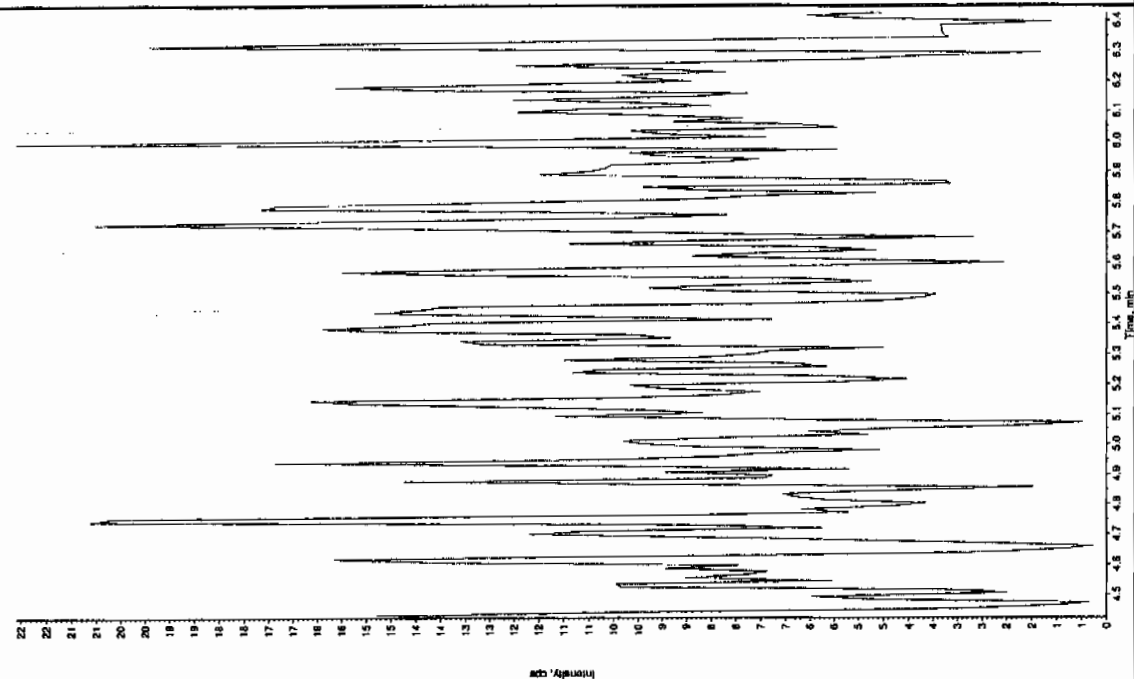
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 11:07:19 AM

Modified: No



Sample Name: "247897010" Sample ID: "95770021ER" File: "EXS03220077.wiff"

Peak Name: "24-Diamino-6-nitrothiophene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

Acq. Time: 11:07:19 AM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8009

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408084a

Date Analyzed: 10-APR-10 14:24

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 19 of 97

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408084a

Date: 10-Apr-2010

Time: 14:24:28

ID: 247897011

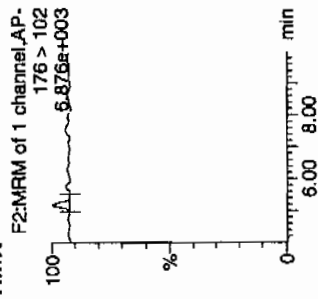
Vial: 1:3,C

LAUW 957700 | 8022 | 21

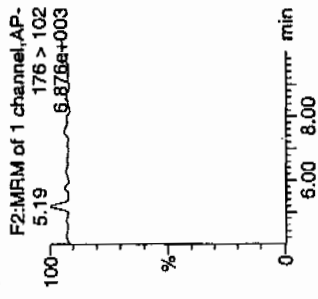
5677
4/11/10

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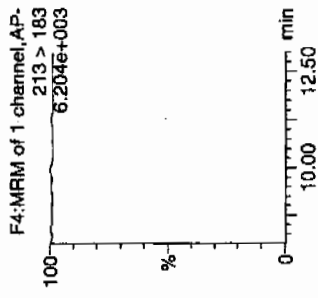
HMX



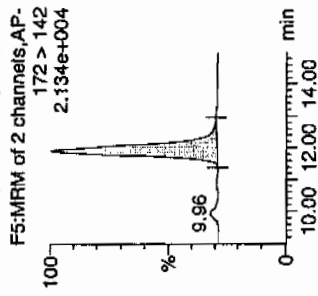
RDX



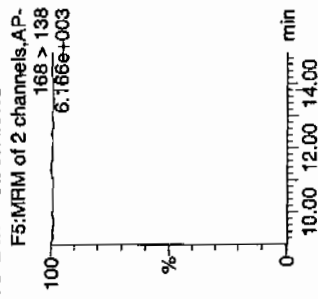
135-Trinitrobenzene



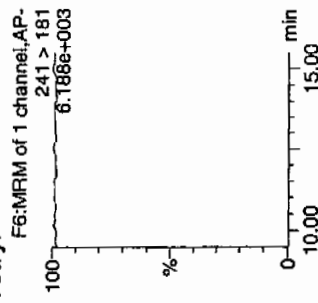
13-Dinitrobenzene-d4



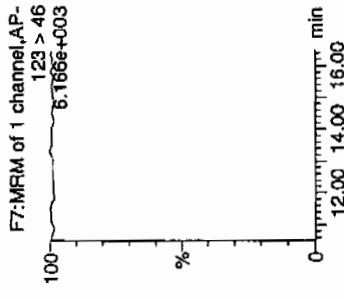
13-Dinitrobenzene



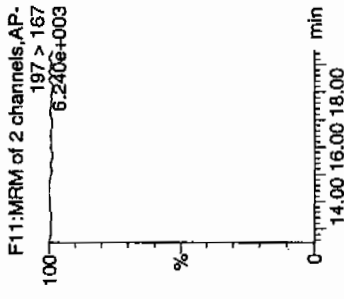
Tetryl



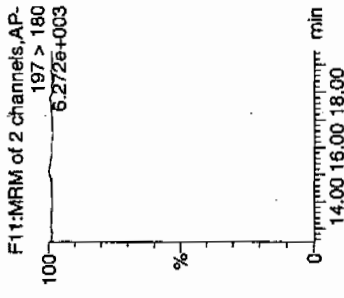
Nitrobenzene



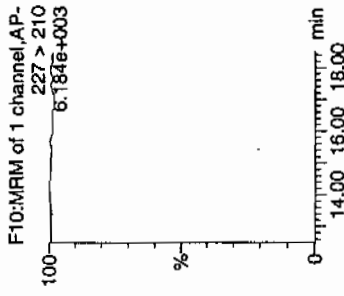
4-Amino-26-dinitrotoluene



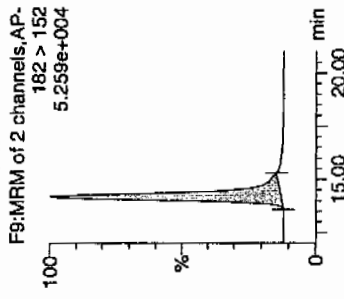
2-Amino-46-dinitrotoluene



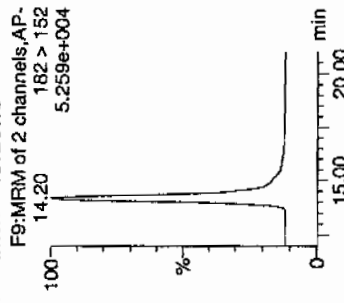
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



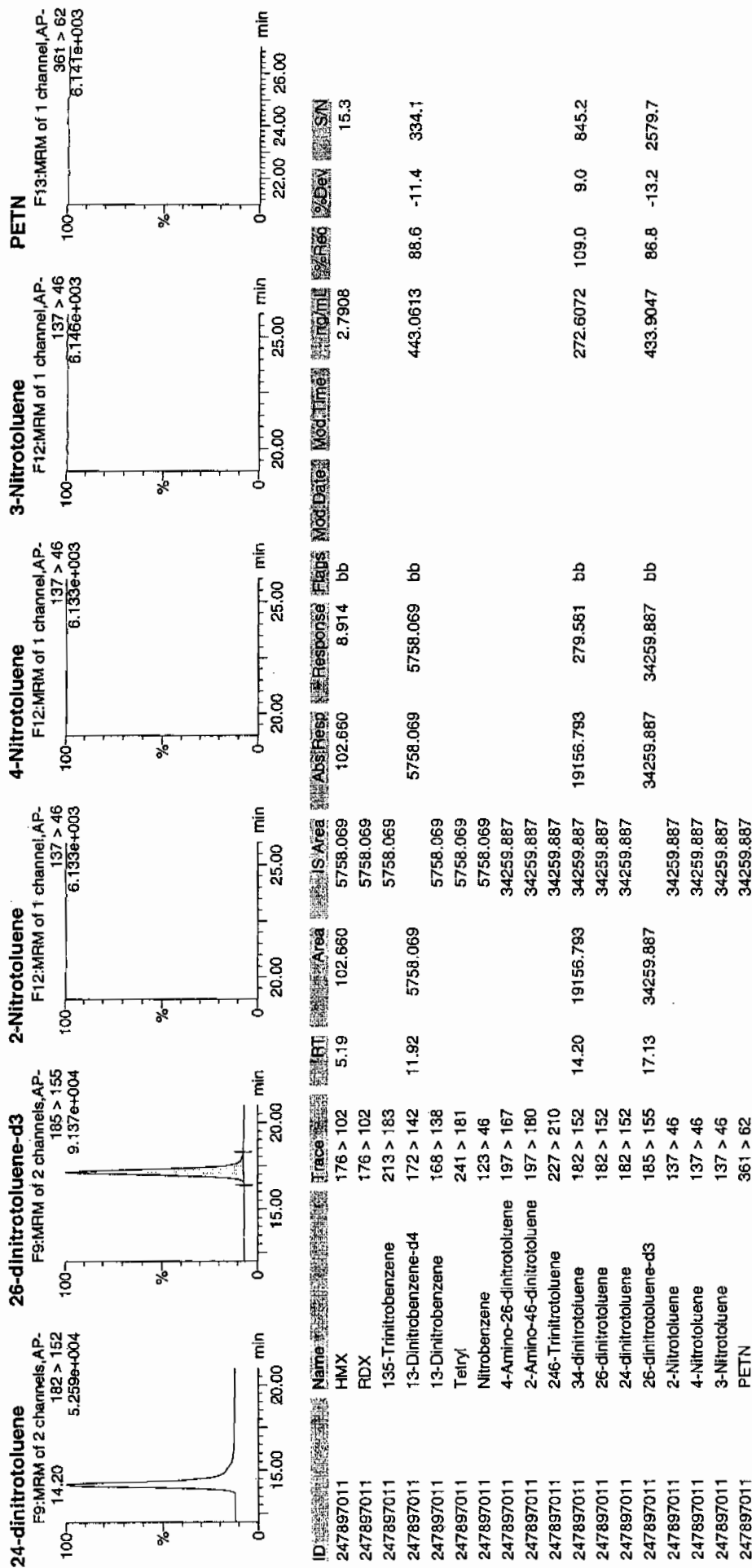
Handwritten signature and date: 4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 20 of 97

Dataset: C:\MASSLYNX\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: RE15-10-8009

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220078.wiff

Date Analyzed: 23-MAR-10 11:23

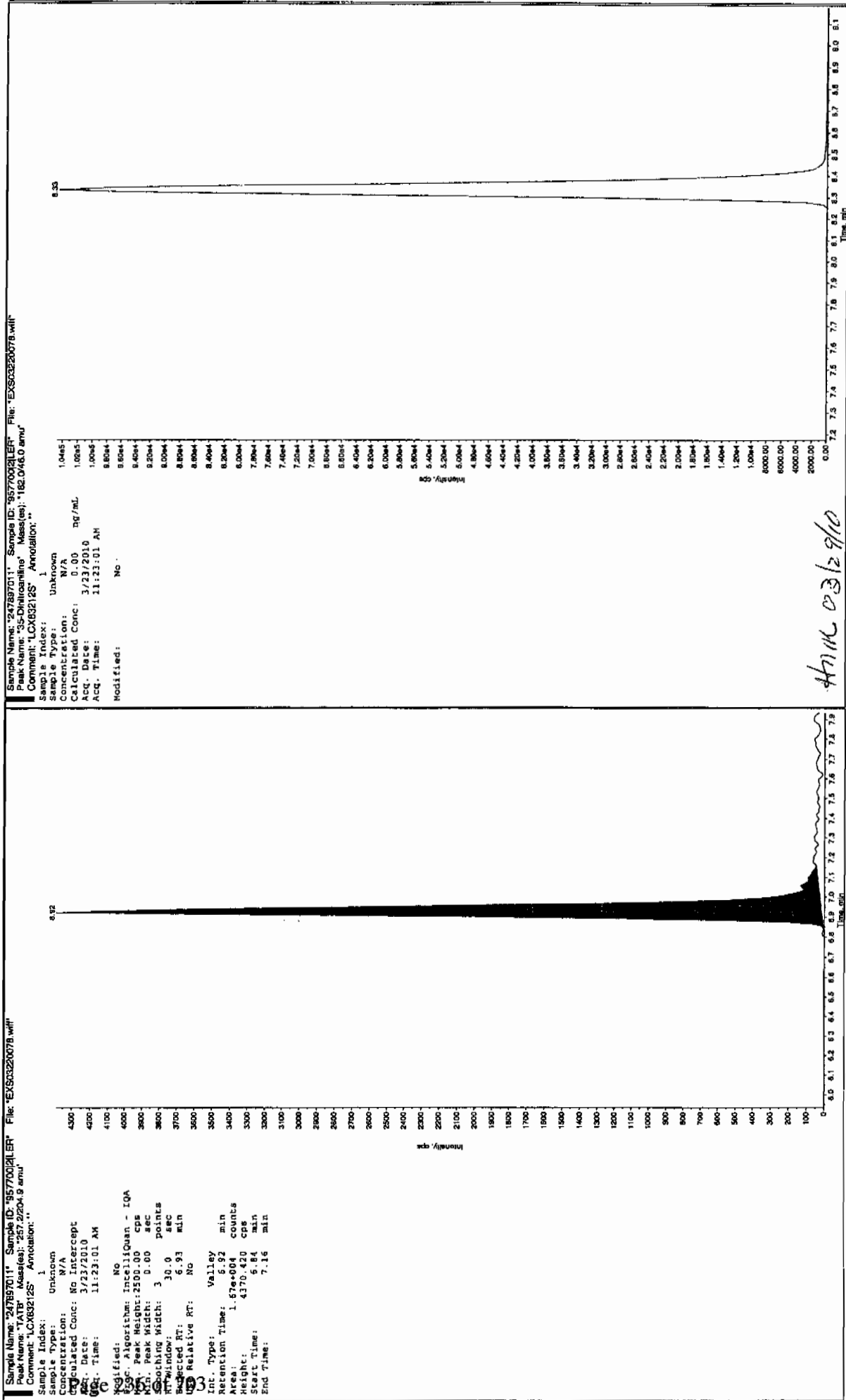
Units: ug/kg

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

San 3/27/10

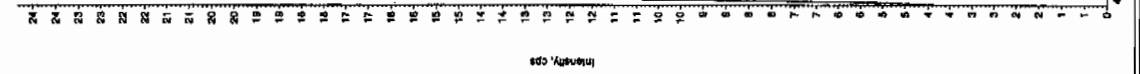


Amc 03/29/10

Sample Name: 247897011 Sample ID: 95770021ER File: EX503220076.wif
 Peak Name: 25-Diamino-4-nitrotoluene Mass(es): 165.046.0 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:23:01 AM
 Modified: No

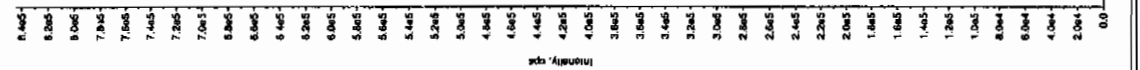
Intensity, cps



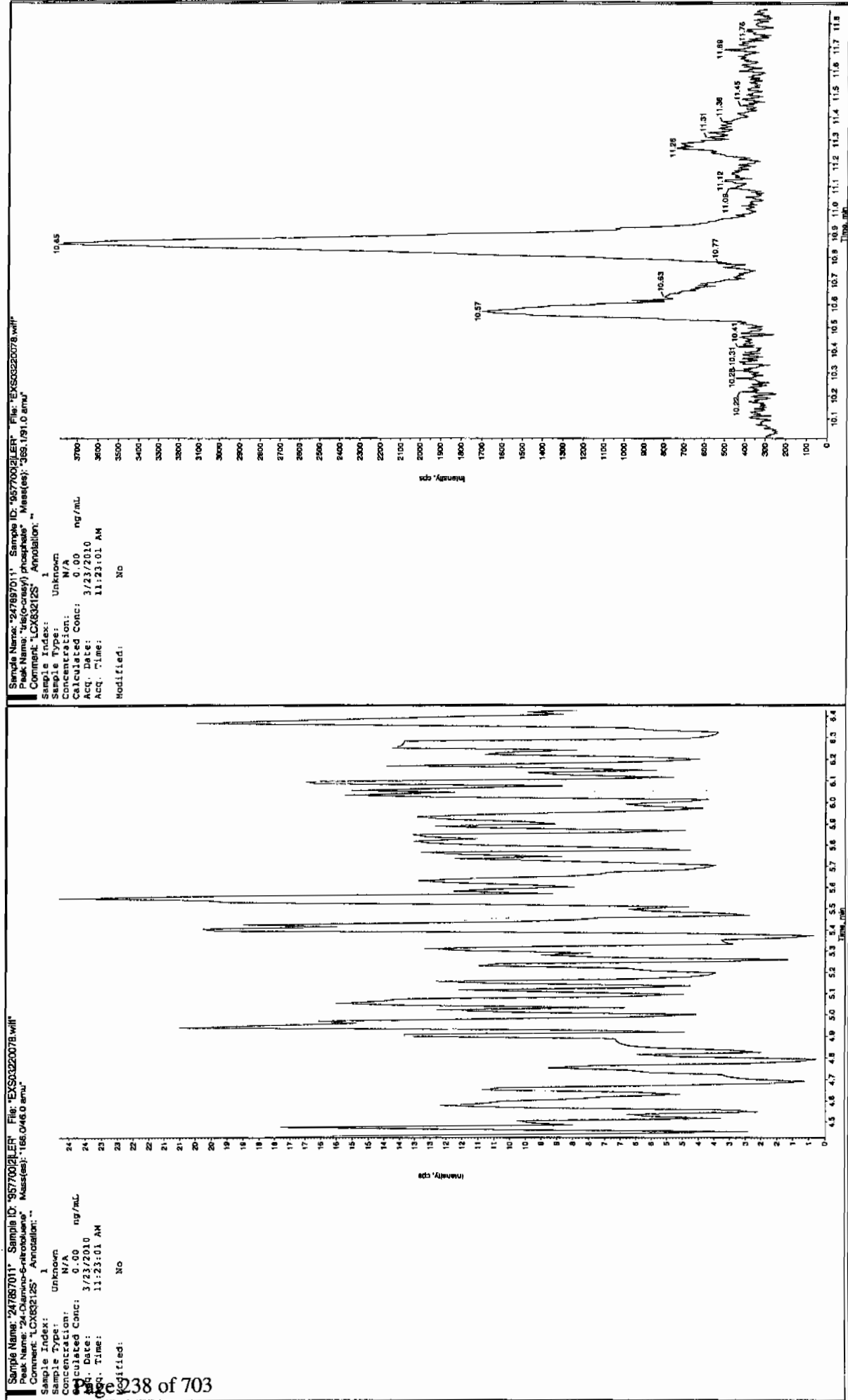
Sample Name: 247897011 Sample ID: 95770021ER File: EX503220076.wif
 Peak Name: 3a-Chlorotoluene Mass(es): 162.151.9 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 296 cps/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:23:01 AM
 Modified: No
 Peak: Algorithm: IntelliQuan - IOA
 Ret. Peak Height: 1460.00 cps
 Ret. Peak Width: 0.00 sec
 Ret. Window: 3 points
 Ret. Window: 15.0 sec
 Expected RT: 8.33 min
 Obs. Relative RT: No

Intensity, cps



Int. Type: Valley
 Retention Time: 8.33 min
 Area: 3.20e+05 counts
 Height: 84233398 cps
 Start Time: 8.21 min
 End Time: 8.71 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8003

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408031a

Date Analyzed: 09-APR-10 12:17

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 11 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\EXP0408031a

Date: 09-Apr-2010

Time: 12:17:24

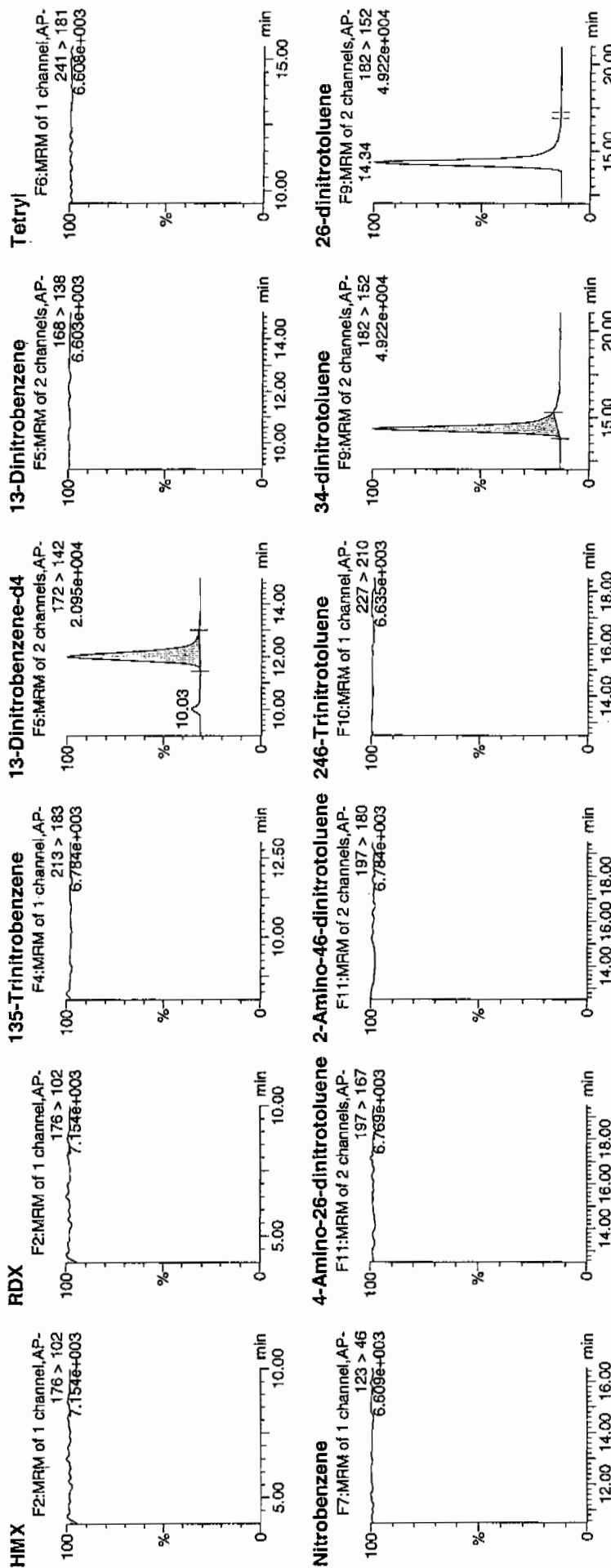
ID: 247897012

Vial: 2:3,D

1077
4/10/10

WAV/957700 | 8022 | 21

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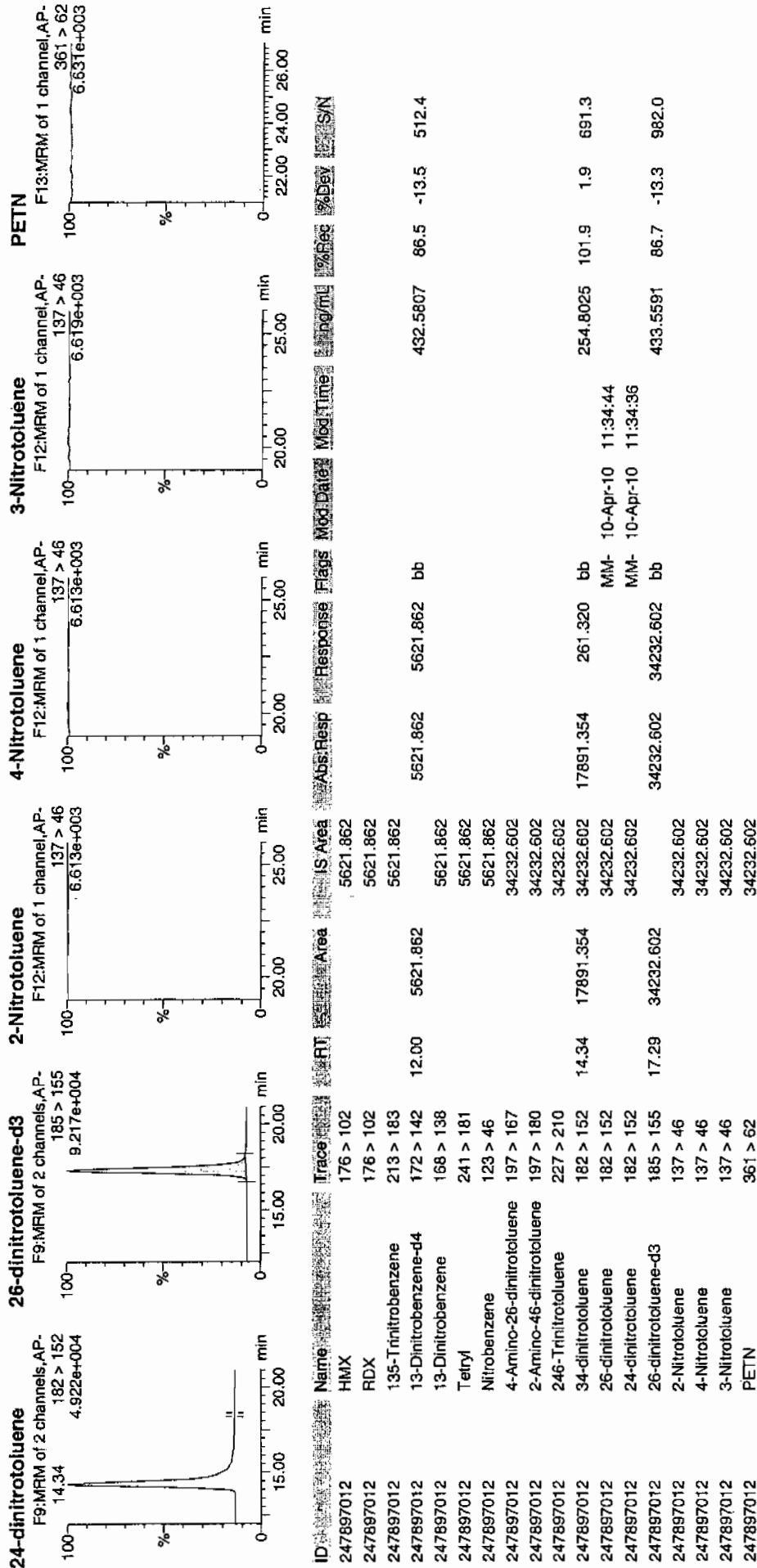
Amu/11/10
04/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 12 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: RE15-10-8003

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220079.wiff

Date Analyzed: 23-MAR-10 11:38

Units: ug/kg

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

*Concentration =

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

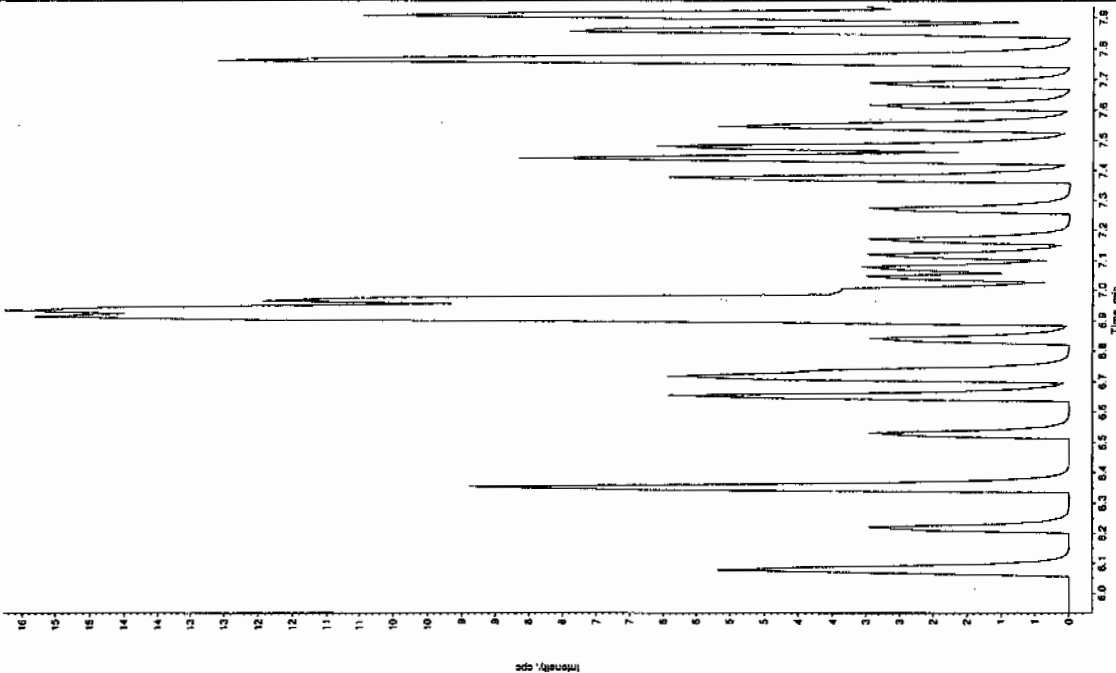
Jan 3/23/10

Sample Name: "247697012" Sample ID: "95770021ER" File: "EXS03220079.will"

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

Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:38:43 AM
 Modified: No

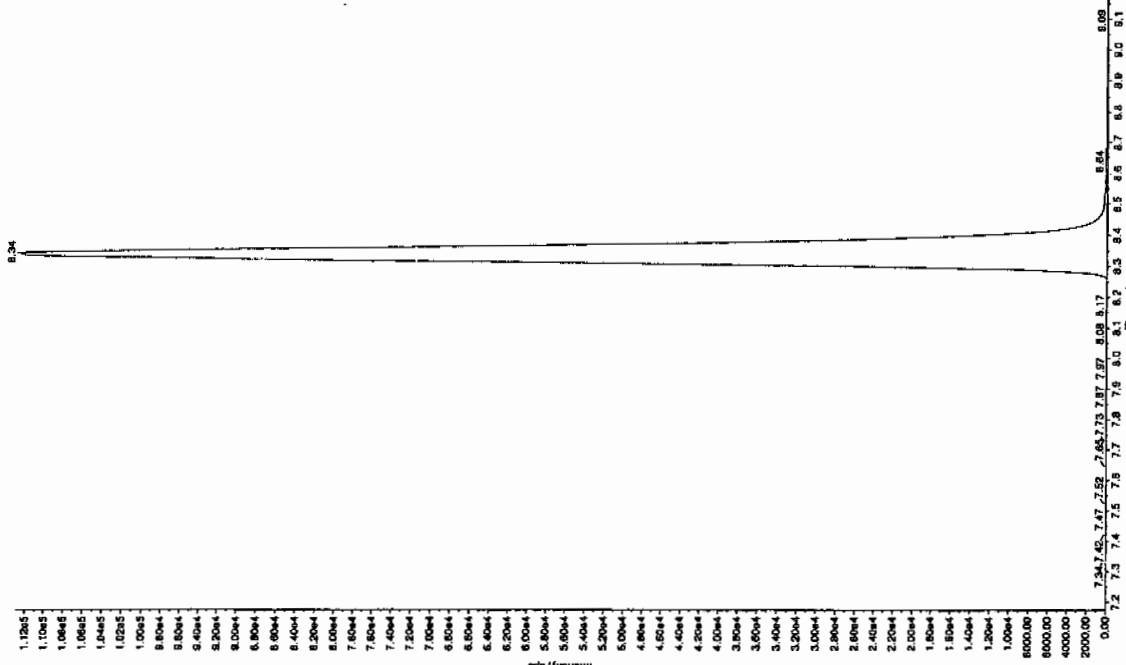


Sample Name: "247697012" Sample ID: "95770021ER" File: "EXS03220079.will"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/165.0 amu"

Comment: "LCX832125" Annotation: ""

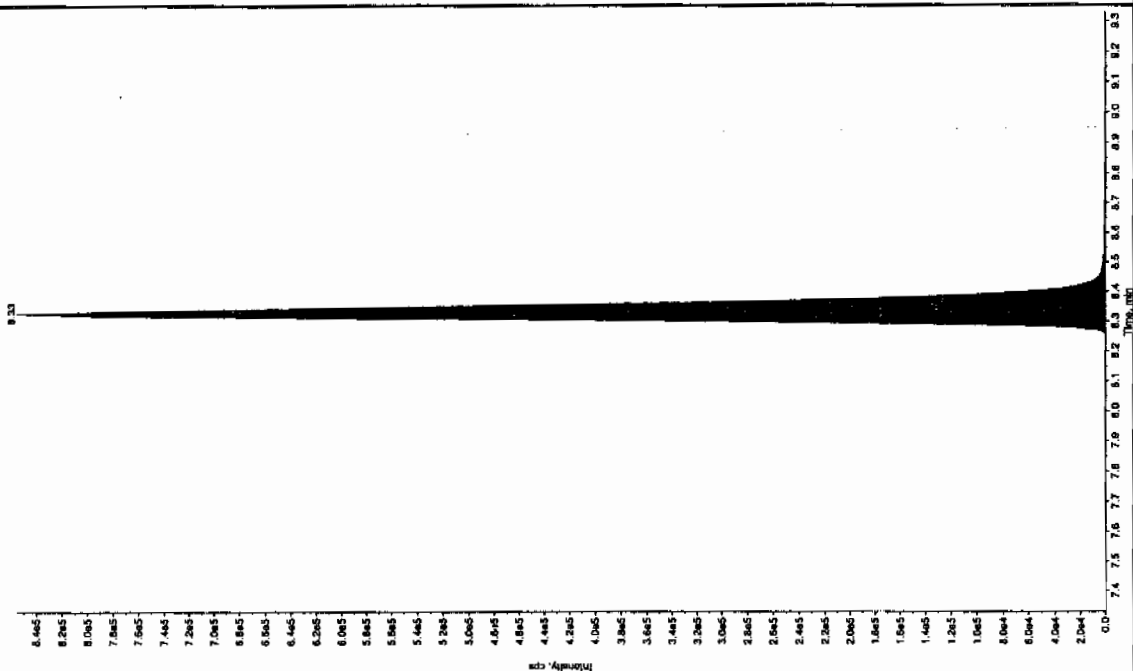
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:38:43 AM
 Modified: No



Jan 03/23/10

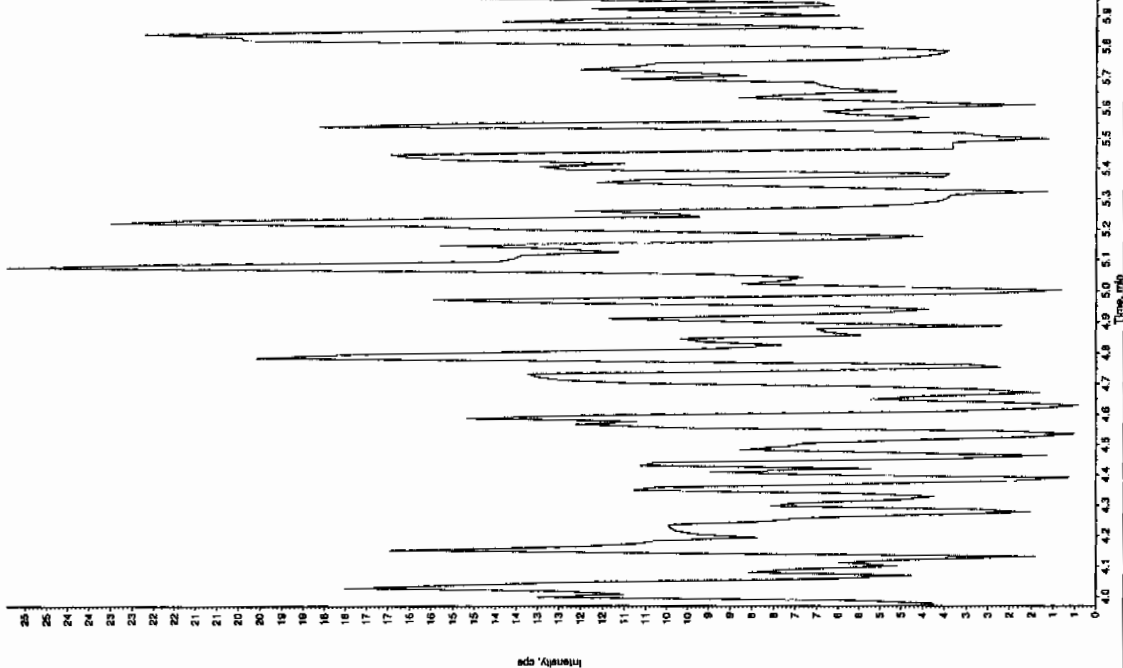
Sample Name: 247897012 Sample ID: 9577002011ER File: EX503220079.wht
 Peak Name: 24-Chloro-4-nitrophenol Mass(es): 182.1/151.9 amu
 Comment: LCX83212S Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 297. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:38:43 AM
 Modified: No
 Algorithm: IntelliQuan - IOA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Peak Window: 15.0 sec
 Expected RT: 8.33 min
 Relative RT: No
 RT Type: Valley
 Retention Time: 8.33 min
 Area: 3.21e+006 counts
 Height: 855671.570 cps
 Start Time: 8.24 min
 End Time: 8.72 min



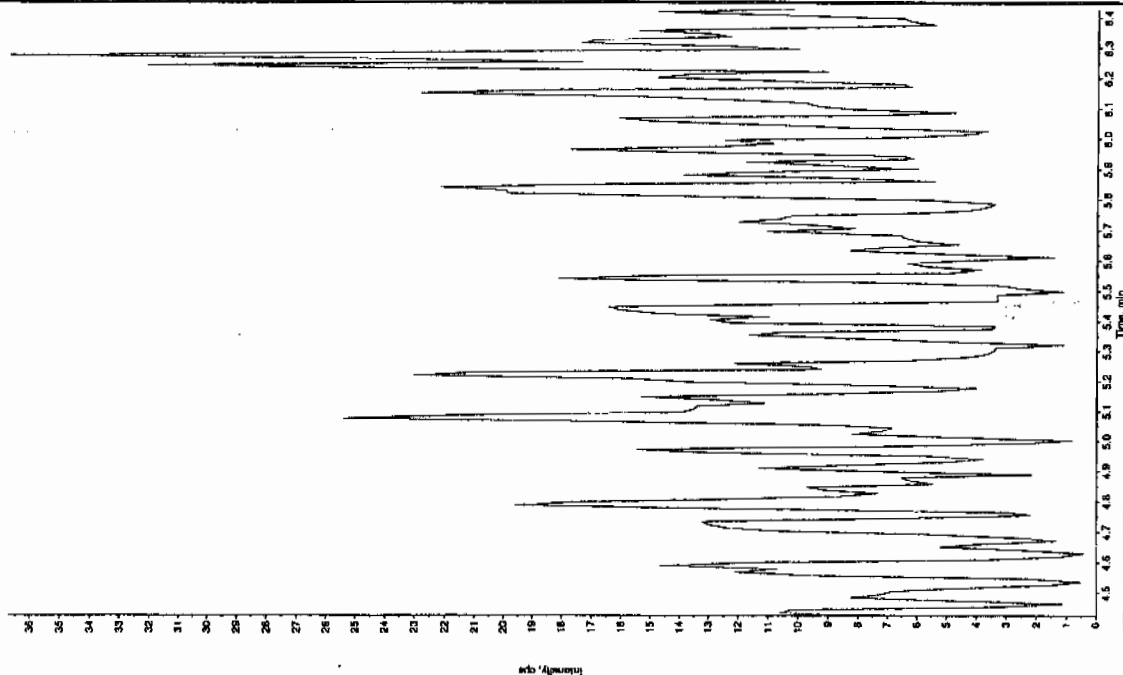
Sample Name: 247897012 Sample ID: 9577002011ER File: EX503220079.wht
 Peak Name: 26-Chloro-4-nitrophenol Mass(es): 168.0/146.0 amu
 Comment: LCX83212S Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:38:43 AM
 Modified: No



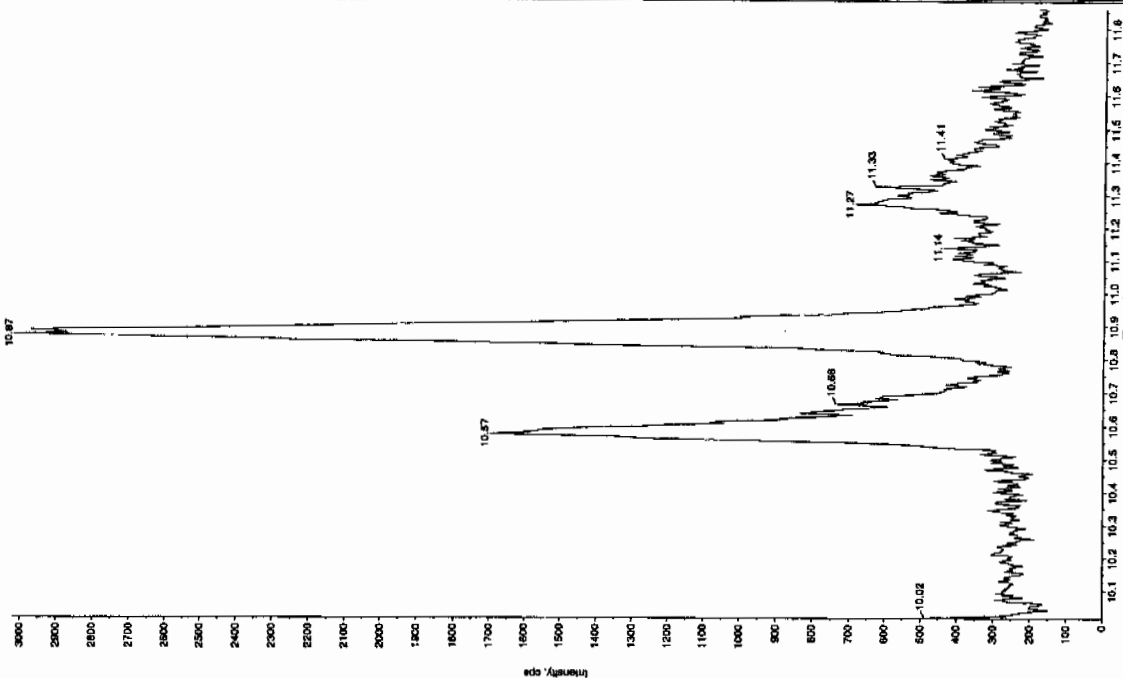
Sample Name: "247887012" Sample ID: "95770021ER" File: "EX503220079.wiff"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.045.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:38:43 AM
 Modified: No



Sample Name: "247887012" Sample ID: "95770021ER" File: "EX503220078.wiff"
 Peak Name: "tricyclic phosphite" 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: 11:38:43 AM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8007

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408032a

Date Analyzed: 09-APR-10 12:46

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 13 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\EXP0408032a

Date: 09-Apr-2010

Time: 12:46:53

ID: 247897013

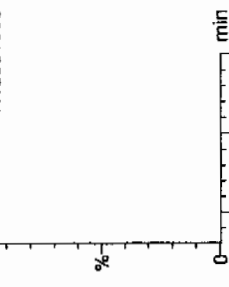
Vial: 2:3,E

LAU 957700 | 80220 | 21

1477
4/10/10

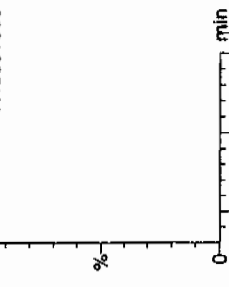
HMX

F2:MRM of 1 channel,AP-
176 > 102
7.133e+003



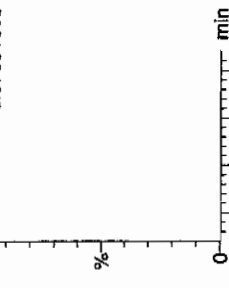
RDX

F2:MRM of 1 channel,AP-
176 > 102
7.133e+003



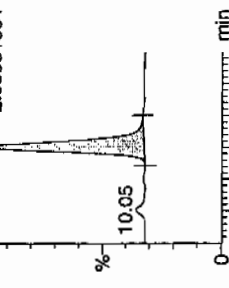
135-Trinitrobenzene

F4:MRM of 1 channel,AP-
213 > 183
6.876e+003



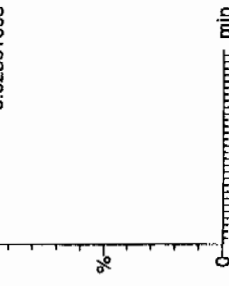
13-Dinitrobenzene-d4

F5:MRM of 2 channels,AP-
172 > 142
2.066e+004



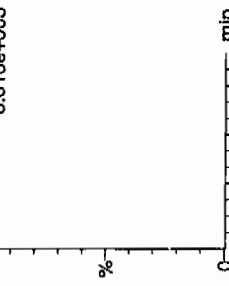
13-Dinitrobenzene

F5:MRM of 2 channels,AP-
168 > 138
5.823e+003



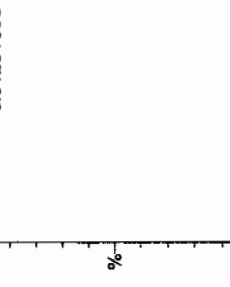
Tetryl

F6:MRM of 1 channel,AP-
241 > 181
6.613e+003



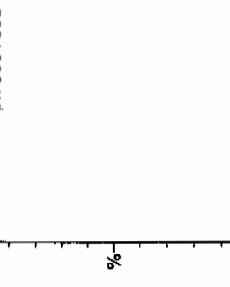
Nitrobenzene

F7:MRM of 1 channel,AP-
123 > 46
6.612e+003



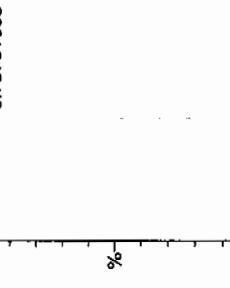
4-Amino-26-dinitrotoluene

F11:MRM of 2 channels,AP-
197 > 167
6.756e+003



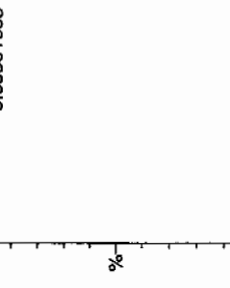
2-Amino-46-dinitrotoluene

F11:MRM of 2 channels,AP-
197 > 180
6.787e+003



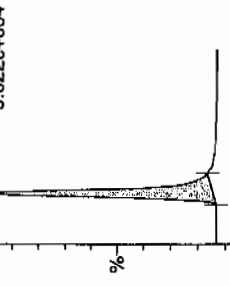
246-Trinitrotoluene

F10:MRM of 1 channel,AP-
227 > 210
6.653e+003



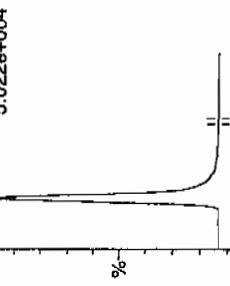
34-dinitrotoluene

F9:MRM of 2 channels,AP-
182 > 152
5.022e+004



26-dinitrotoluene

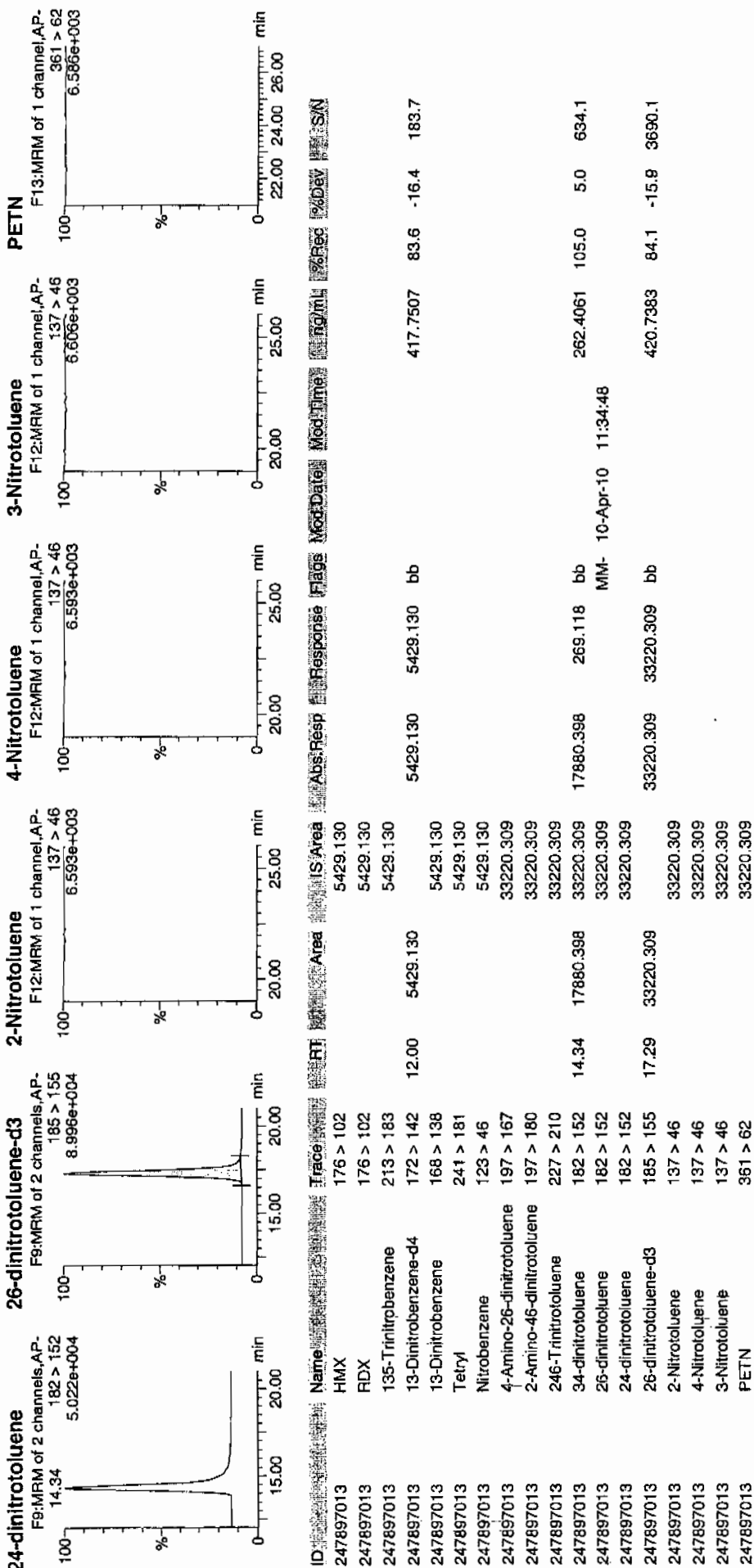
F9:MRM of 2 channels,AP-
182 > 152
5.022e+004



Handwritten signature and date 04/11/10

Dataset: C:\MASSLYNX\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: RE15-10-8007

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220080.wiff

Date Analyzed: 23-MAR-10 11:54

Units: ug/kg

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

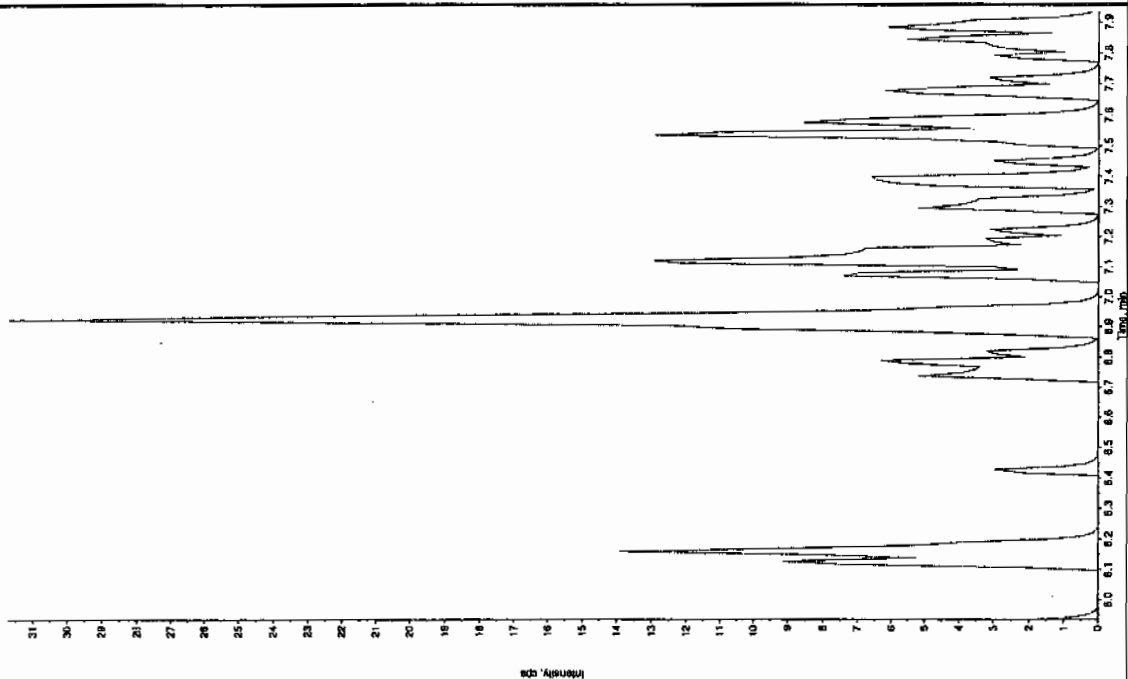
*Concentration =

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

Jan 31/29/10

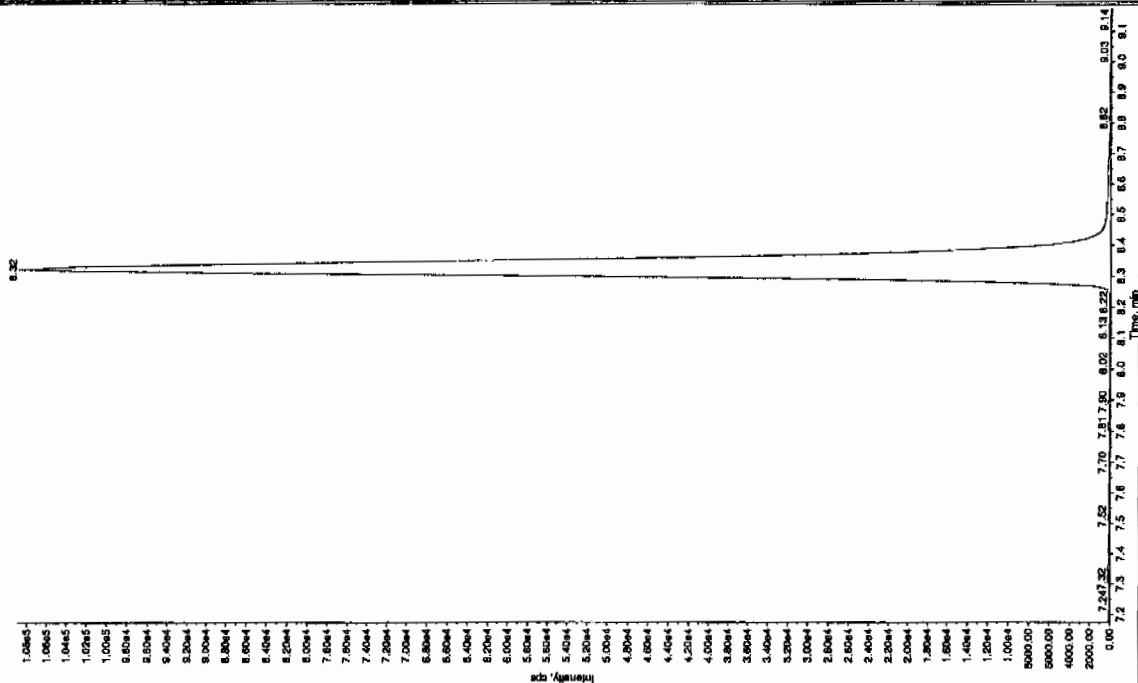
Sample Name: '247897013' Sample ID: '95770021LER' File: 'EX50320080.wif'
 Peak Name: 'TATB' Mass(es): '257.2204.9 amu'
 Comment: 'LCX83212S' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:54:29 AM
 Modified: No



Sample Name: '247897013' Sample ID: '95770021LER' File: 'EX50320080.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: 11:54:29 AM
 Modified: No



Jan 03/29/10

Sample Name: "247897013" Sample ID: "95770021ER" File: "EX503220080.wif"

Peak Name: "34-Dinitro-4-nitrofluorene" Mass(es): "182.17518 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 283. ng/mL

Calculated Conc: 3/23/2010

Acq. Date: 11:54:29 AM

Acq. Time: 11:54:29 AM

Modified: No

Int. Type: Valley

Retention Time: 8.32 min

Area: 3.07e+006 counts

Height: 828834.290 cps

Start Time: 8.20 min

End Time: 8.68 min

Selected RT: 8.33 min

Relative RT: No

Int. Type: Valley

Retention Time: 8.32 min

Area: 3.07e+006 counts

Height: 828834.290 cps

Start Time: 8.20 min

End Time: 8.68 min

Selected RT: 8.33 min

Relative RT: No

Int. Type: Valley

Retention Time: 8.32 min

Area: 3.07e+006 counts

Height: 828834.290 cps

Start Time: 8.20 min

End Time: 8.68 min

Selected RT: 8.33 min

Relative RT: No

Int. Type: Valley

Retention Time: 8.32 min

Area: 3.07e+006 counts

Height: 828834.290 cps

Start Time: 8.20 min

End Time: 8.68 min

Selected RT: 8.33 min

Relative RT: No

Int. Type: Valley

Retention Time: 8.32 min

Area: 3.07e+006 counts

Height: 828834.290 cps

Start Time: 8.20 min

End Time: 8.68 min

Selected RT: 8.33 min

Relative RT: No

Int. Type: Valley

Retention Time: 8.32 min

Area: 3.07e+006 counts

Height: 828834.290 cps

Start Time: 8.20 min

End Time: 8.68 min

Selected RT: 8.33 min

Relative RT: No

Int. Type: Valley

Retention Time: 8.32 min

Area: 3.07e+006 counts

Height: 828834.290 cps

Start Time: 8.20 min

Sample Name: "247897013" Sample ID: "95770021ER" File: "EX503220080.wif"

Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

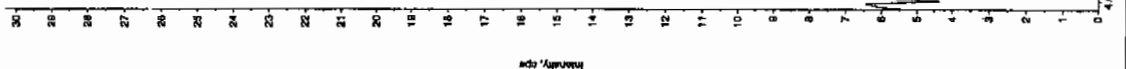
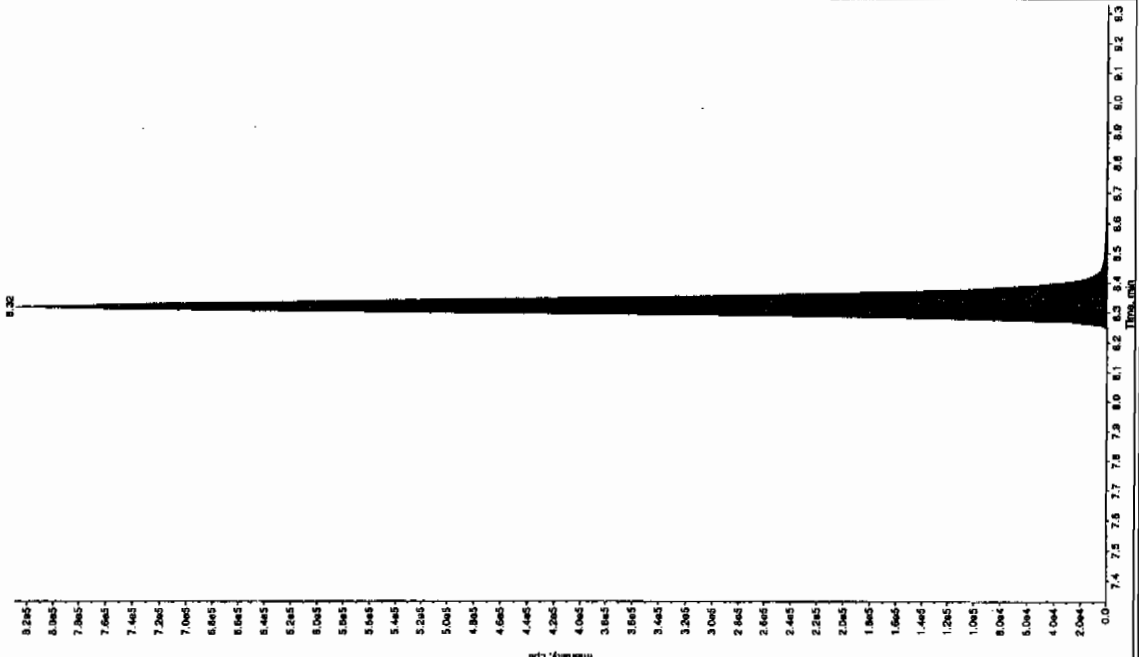
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/23/2010

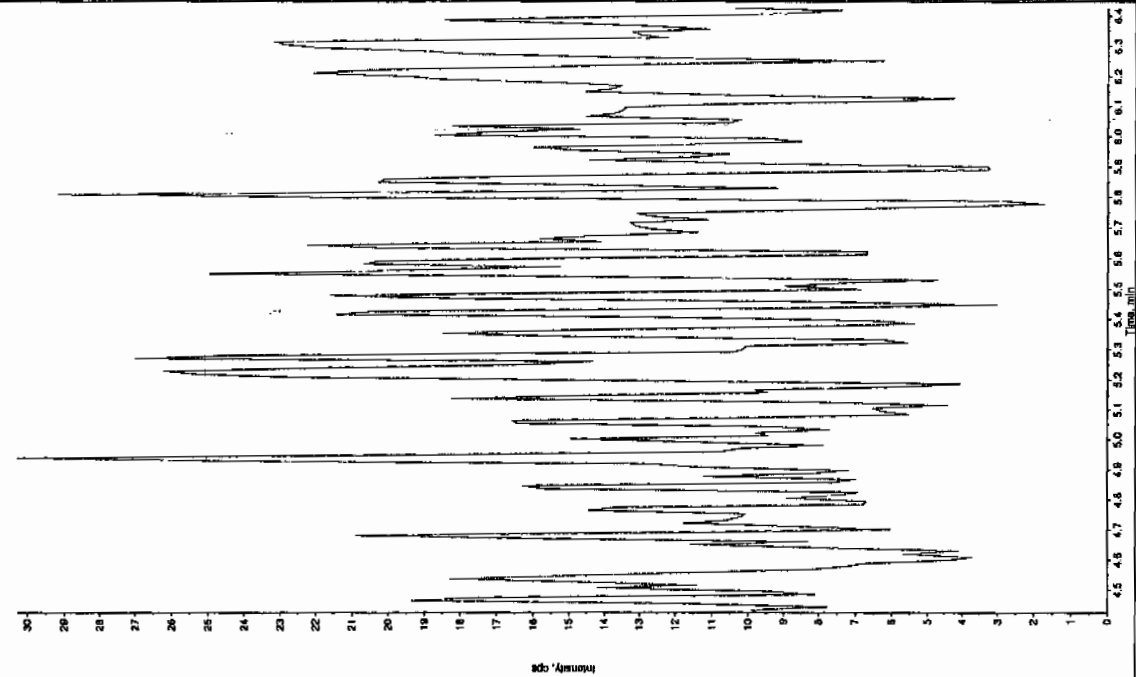
Acq. Time: 11:54:29 AM

Modified: No



Sample Name: "247897013" Sample ID: "95770021.ER" File: "EXS03220080.wiff"
 Peak Name: "247897013" Concentration: "0.00" Mass(es): "355.191.0 amu"
 Compound: "LCMS032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:54:29 AM
 Modified: No



Sample Name: "247897013" Sample ID: "95770021.ER" File: "EXS03220080.wiff"
 Peak Name: "247897013" Concentration: "0.00" Mass(es): "168.046.0 amu"
 Compound: "LCMS032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 11:54:29 AM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15--10-8002

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408033a

Date Analyzed: 09-APR-10 13:16

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 15 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\EXP0408033a

Date: 09-Apr-2010

Time: 13:16:20

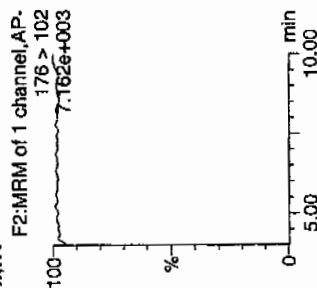
ID: 247897014

Vial: 2:3,F

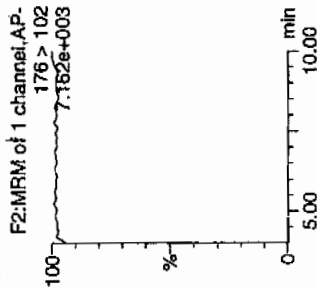
4/10/10

LAU 1957700 / 8022 / 21

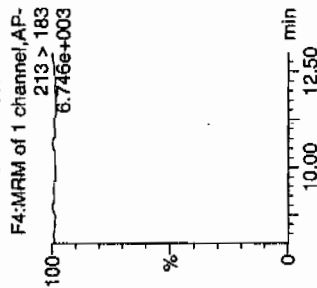
HMX



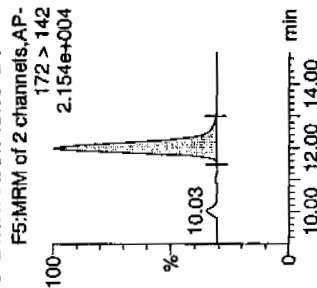
RDX



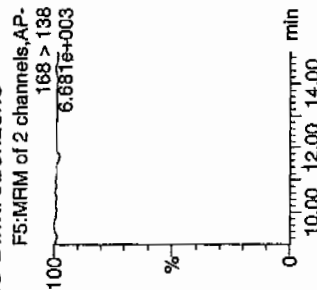
135-Trinitrobenzene



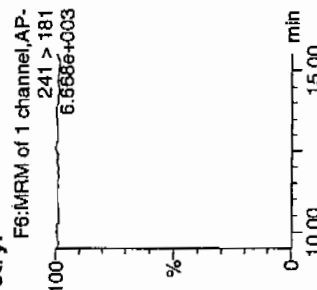
13-Dinitrobenzene-d4



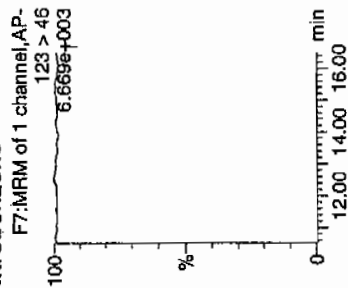
13-Dinitrobenzene



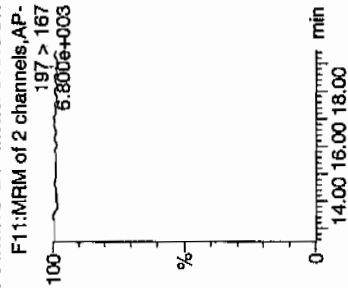
Tetryl



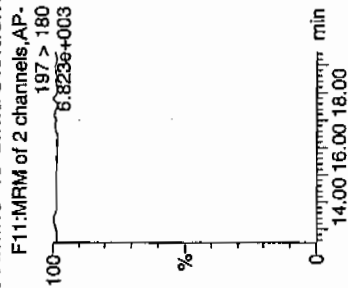
Nitrobenzene



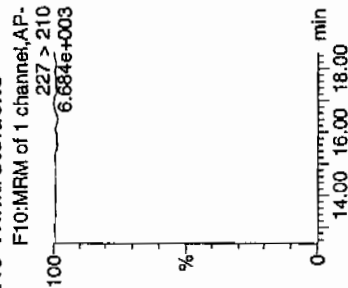
4-Amino-26-dinitrotoluene



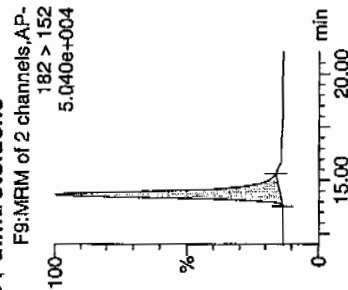
2-Amino-46-dinitrotoluene



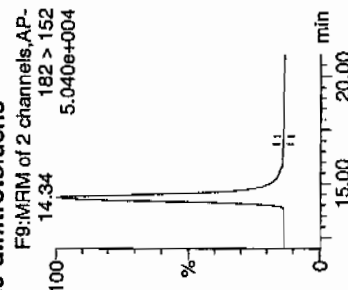
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



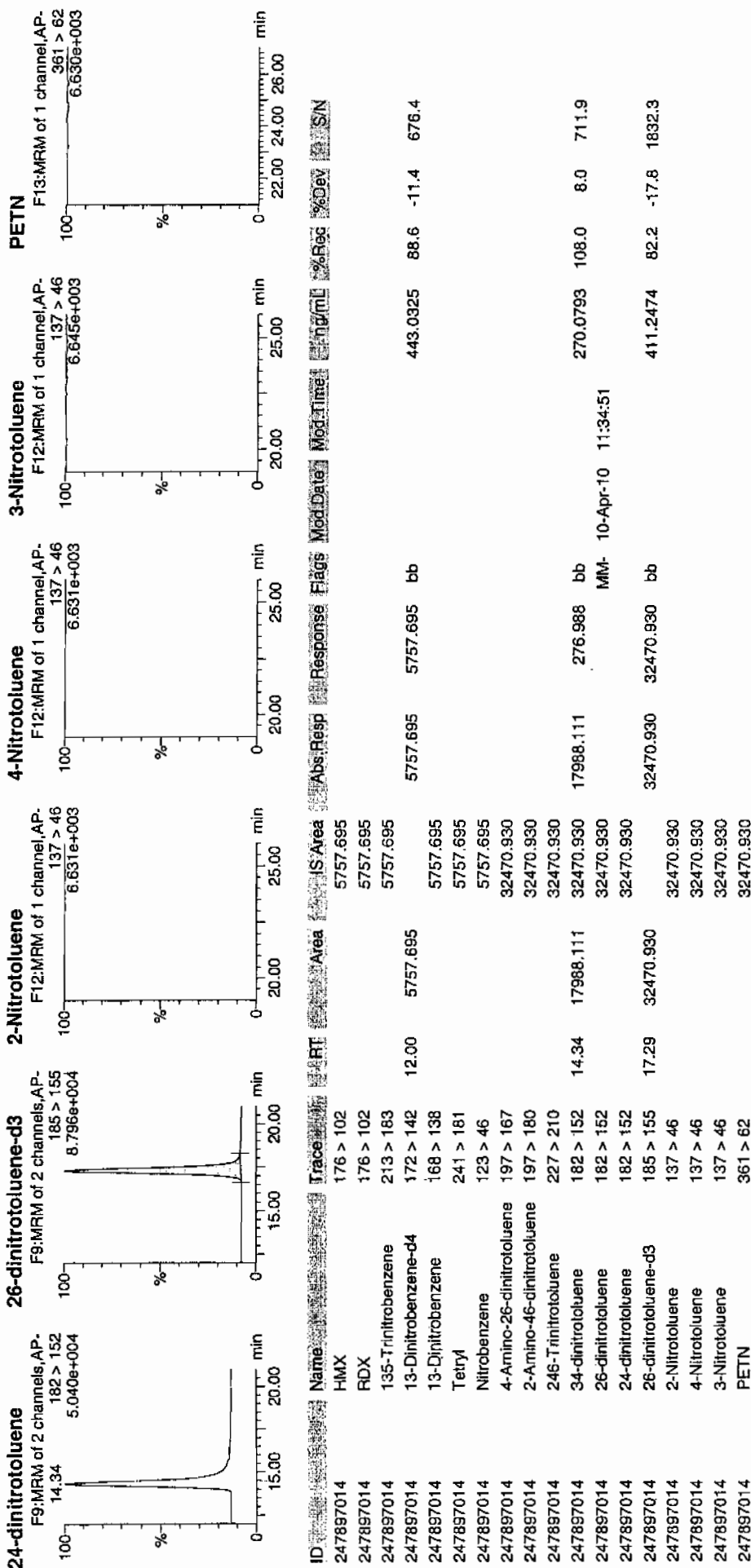
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 16 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: RE15-10-8002

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220081.wiff

Date Analyzed: 23-MAR-10 12:10

Units: ug/kg

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

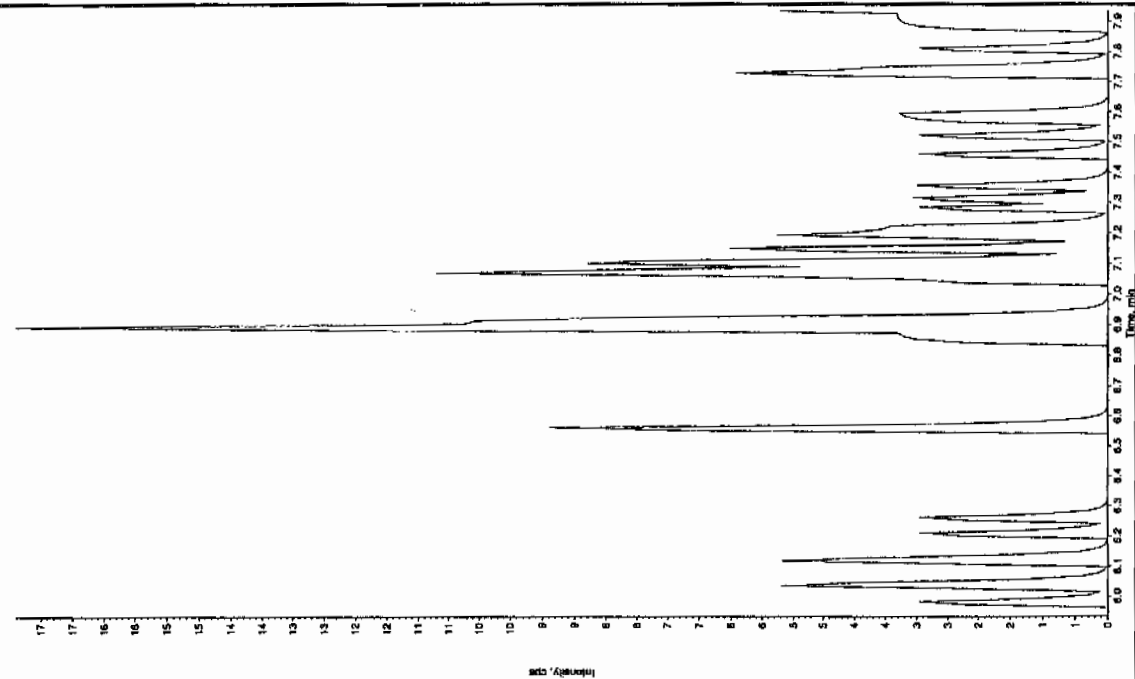
*Concentration =

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

Run 3/23/10

Sample Name: "247827014" Sample ID: "95770021ER" File: "EXS03220081.wif"
 Peak Name: "15-Deoxyribose" Mass(es): "162.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12:10:55 PM
 Acq. Time: 12:10:55 PM
 Modified: NO



Sample Name: "247827014" Sample ID: "95770021ER" File: "EXS03220081.wif"
 Peak Name: "15-Deoxyribose" Mass(es): "162.046.0 amu"
 Comment: "LCX832125" Annotation: "

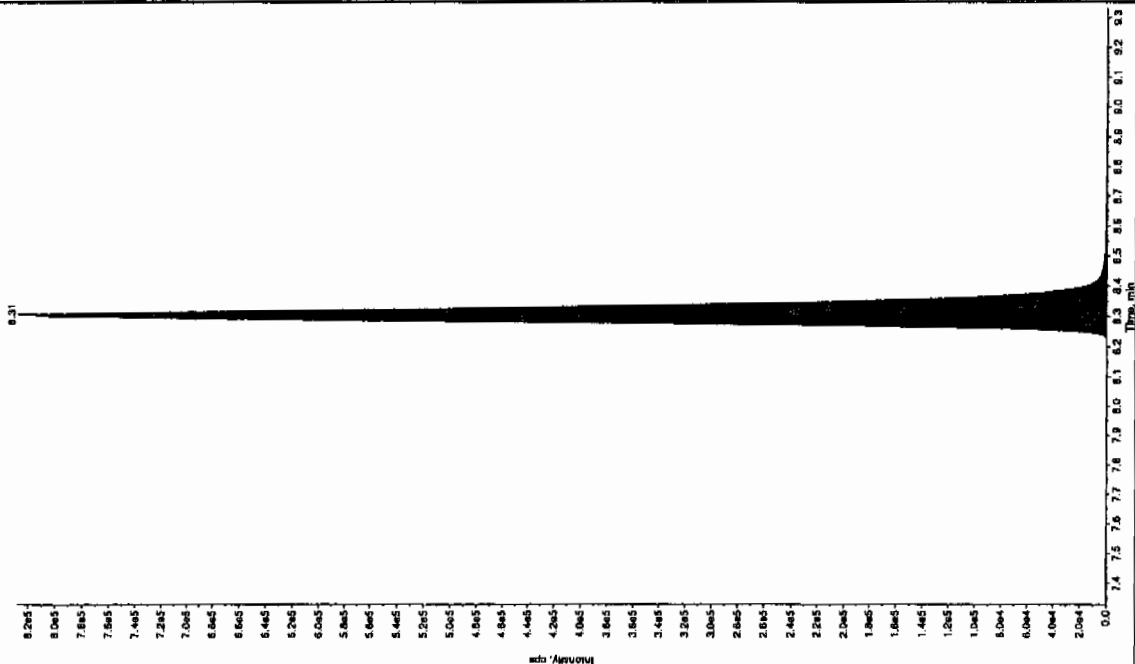
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12:10:55 PM
 Acq. Time: 12:10:55 PM
 Modified: NO



Run 03/23/10

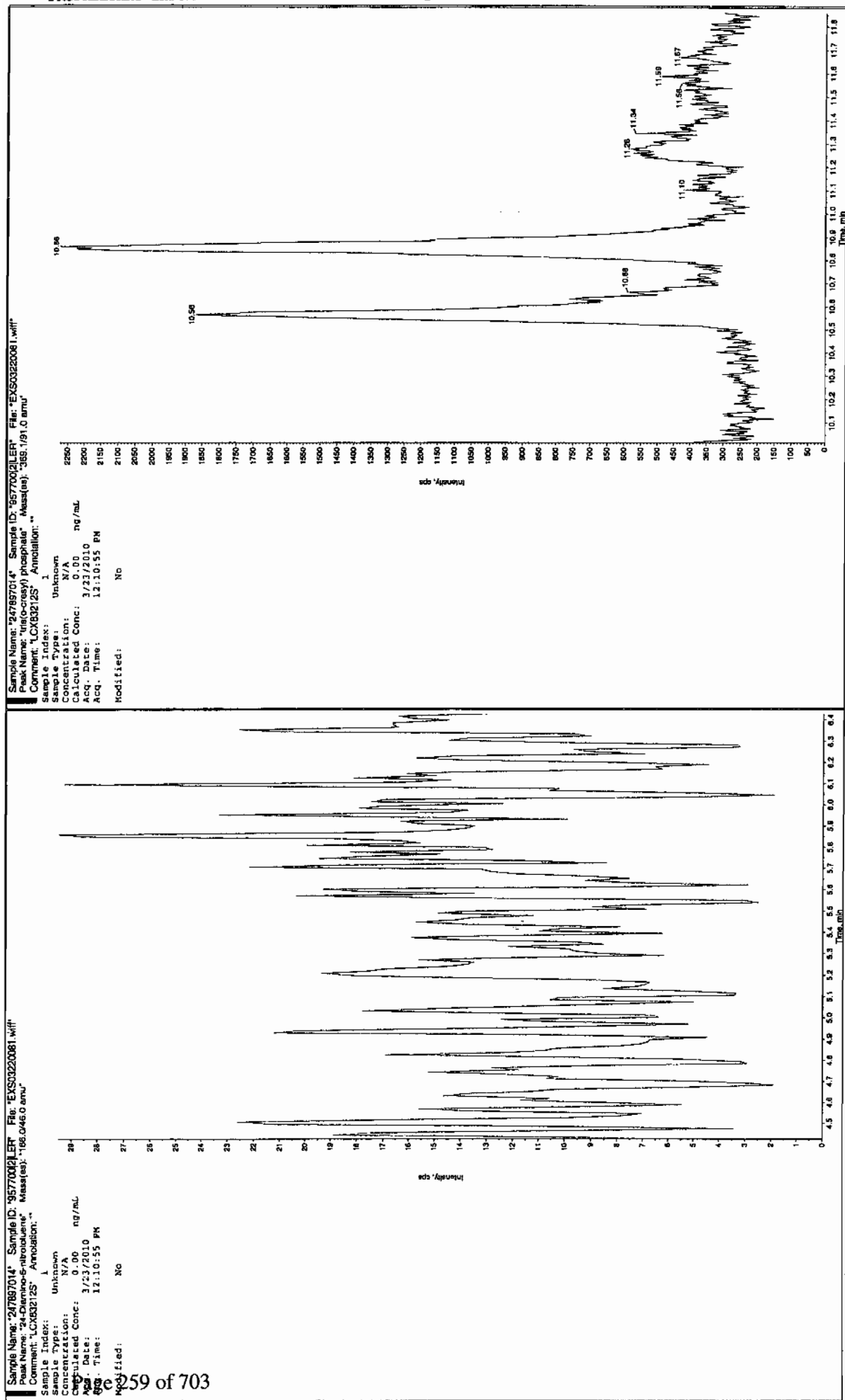
Sample Name: "247897014" Sample ID: "9577002LER" File: "EXS03220081.will"
 Peak Name: "26-Diantho-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.23/2010 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:10:55 PM
 Modified: No



Sample Name: "247897014" Sample ID: "9577002LER" File: "EXS03220081.will"
 Peak Name: "34-Divinitrofluorene" Mass(es): "182.1715.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.23/2010 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:10:55 PM
 Modified: No
 Peak Name: "34-Divinitrofluorene" Mass(es): "182.1715.9 amu"
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Peak Area: 3.10e+006 counts
 Peak Window: 15.0 sec
 Peak RT: 8.33 min
 Relative RT: No
 Ret. Type: Valley
 Retention Time: 8.31 min
 Area: 3.10e+006 counts
 Height: 827835.815 cps
 Start Time: 8.17 min
 End Time: 8.43 min



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8010

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408034a

Date Analyzed: 09-APR-10 13:45

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\EXP0408034a

Date: 09-Apr-2010

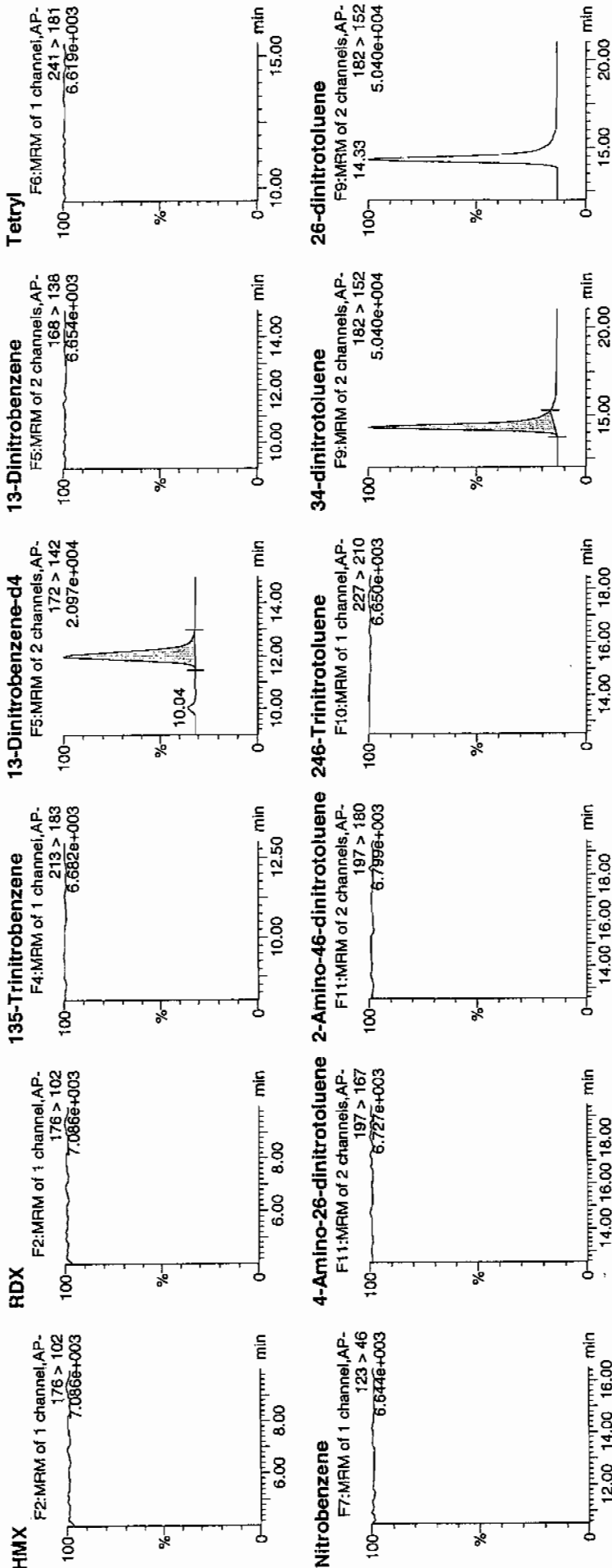
Time: 13:45:48

ID: 247897015

Vial: 2:4.A

just
4/6/10

247897015 / 21
8022



4/11/10

Quantify Sample Report

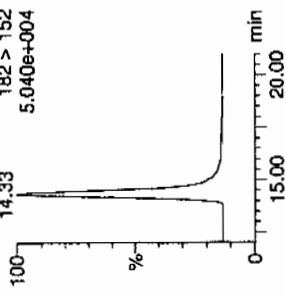
GEL Laboratories, LLC / Analyst : Michael A. Penny

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

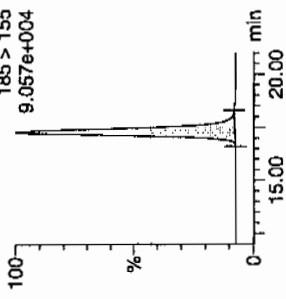
24-dinitrotoluene

F9:MRM of 2 channels,AP-
182 > 152
5.040e+004



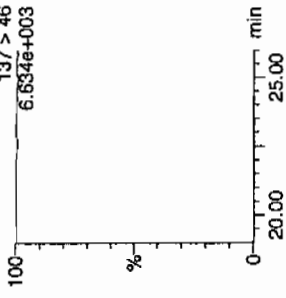
26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-
185 > 155
9.057e+004



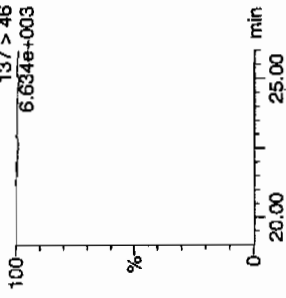
2-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
6.634e+003



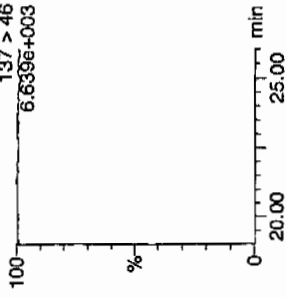
4-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
6.634e+003



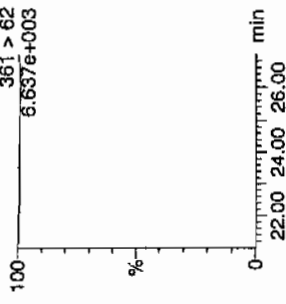
3-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
6.639e+003



PETN

F13:MRM of 1 channel,AP-
361 > 62
6.637e+003



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
247897015	HMx	176 > 102			5527.278								
247897015	RDX	176 > 102			5527.278								
247897015	135-Trinitrobenzene	213 > 183			5527.278								
247897015	13-Dinitrobenzene-d4	172 > 142	12.00	5527.278		5527.278	5527.278	bb			425.3028	85.1	-14.9
247897015	13-Dinitrobenzene	168 > 138			5527.278								167.7
247897015	Tetryl	241 > 181			5527.278								
247897015	Nitrobenzene	123 > 46			5527.278								
247897015	4-Amino-26-dinitrotoluene	197 > 167			33259.070								
247897015	2-Amino-46-dinitrotoluene	197 > 180			33259.070								
247897015	246-Trinitrotoluene	227 > 210			33259.070								
247897015	34-dinitrotoluene	182 > 152	14.33	17877.355	33259.070	17877.355	268.759	bb			262.0557	104.8	4.8
247897015	26-dinitrotoluene	182 > 152			33259.070								
247897015	24-dinitrotoluene	182 > 152			33259.070								
247897015	26-dinitrotoluene-d3	185 > 155	17.30	33259.070	33259.070	33259.070	33259.070	bb			421.2293	84.2	-15.8
247897015	2-Nitrotoluene	137 > 46			33259.070								2825.9
247897015	4-Nitrotoluene	137 > 46			33259.070								
247897015	3-Nitrotoluene	137 > 46			33259.070								
247897015	PETN	361 > 62			33259.070								

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8010

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220082.wiff

Date Analyzed: 23-MAR-10 12:26

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

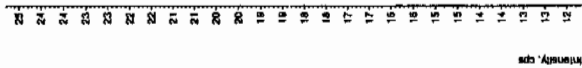
*Concentration =

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

for 3/23/10

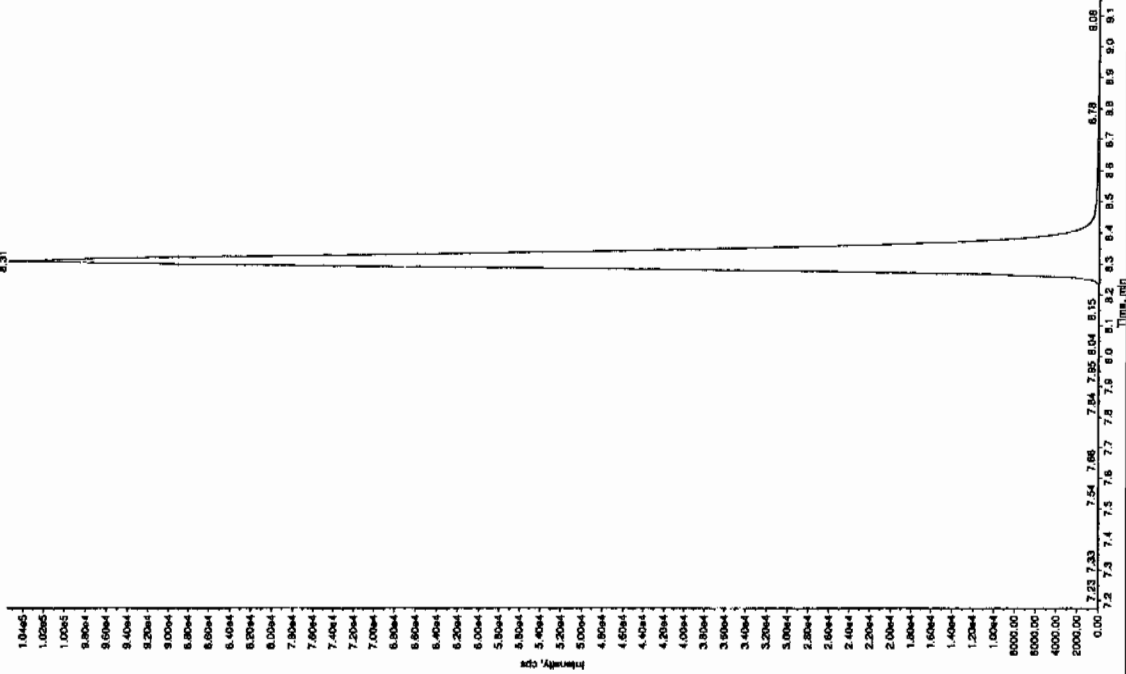
Sample Name: "247807015" Sample ID: "95770021ER" File: "EXS03220082.wiff"
 Peak Name: "TATB" M_r(calc): "257.2204.8 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:26:37 PM
 Modified: No



Sample Name: "247807015" Sample ID: "95770021ER" File: "EXS03220082.wiff"
 Peak Name: "3S-Dinitrailline" M_r(calc): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: "

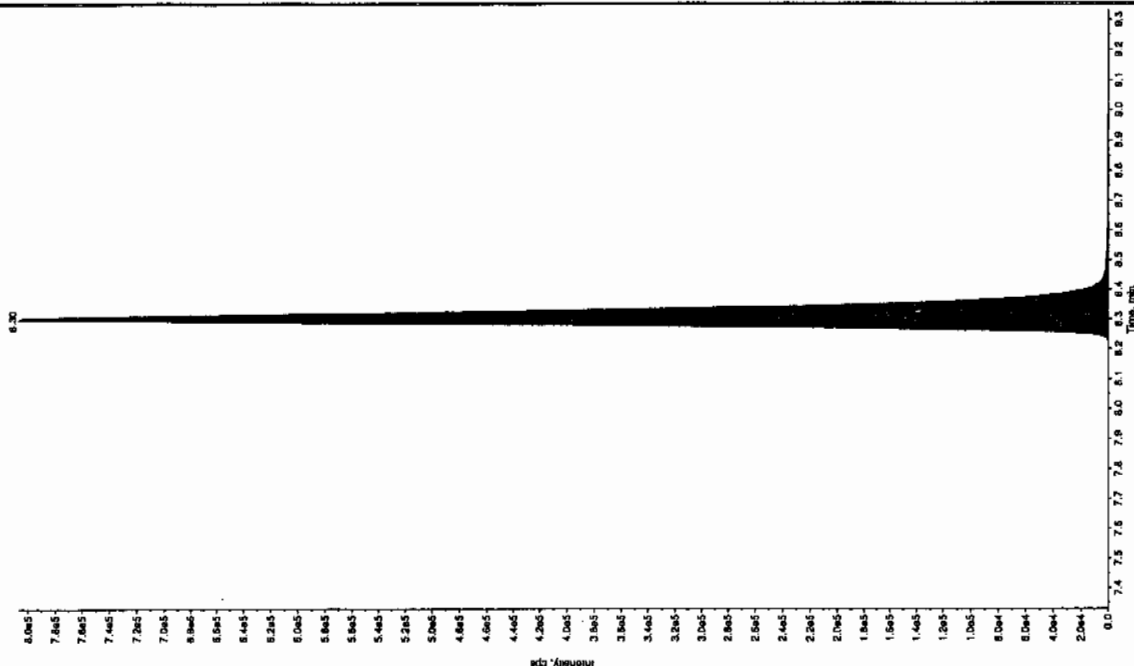
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:26:37 PM
 Modified: No



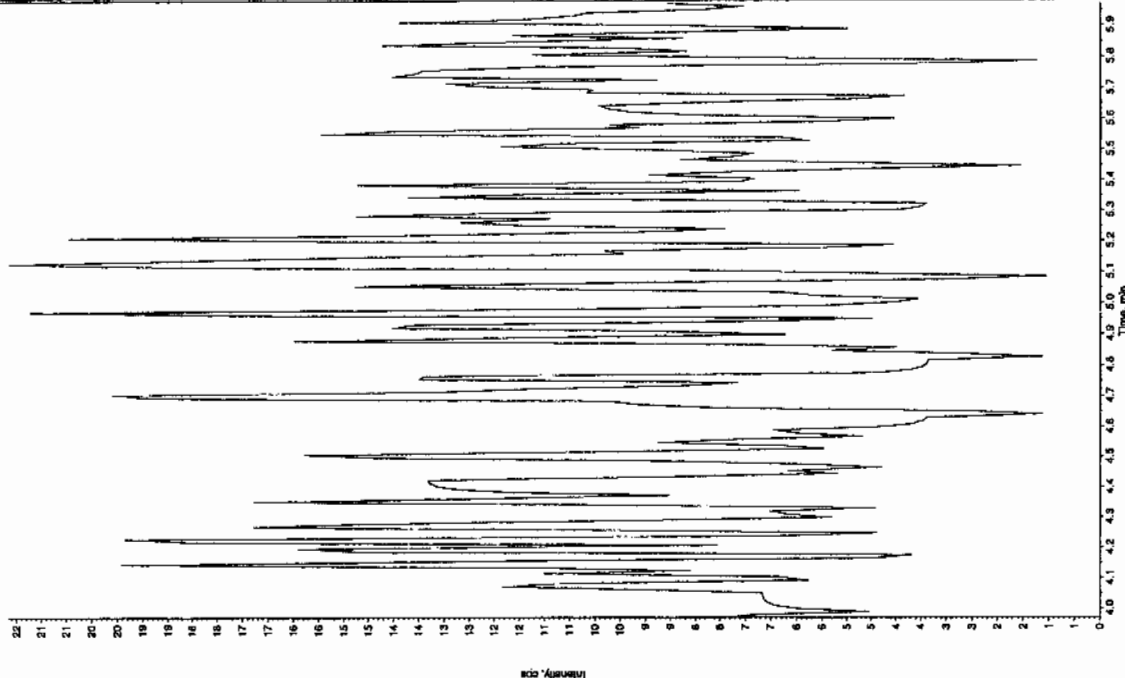
4/11/03/29/10

Sample Name: "27897015" Sample ID: "9577002|LER" File: "EXS03220082.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "168.046.0 amu"
Comment: "LCX93212S" Annotation: ""

Sample Index:	1	Sample Type:	Unknown
Concentrated Conc:	N/A	ng/mL	
Batch Date:	3/23/2010		
Batch Time:	12:26:37 PM		
CO Conf:	NO		
CO Algorithm:	IntelliQuan - ICA		
Peak Height:	1460.00	cps	
Peak Width:	0.00	sec	
Sweeping Width:	3.0	points	
Acq Window:	15.0	sec	
Expected RT:	8.33	min	
Relative RT:	NO		
Peaks:	Valley		
Retention Time:	8.30	min	
Area:	3.00e+006	counts	
Height:	807496.338	cps	
Start Time:	8.19	min	
End Time:	8.75	min	

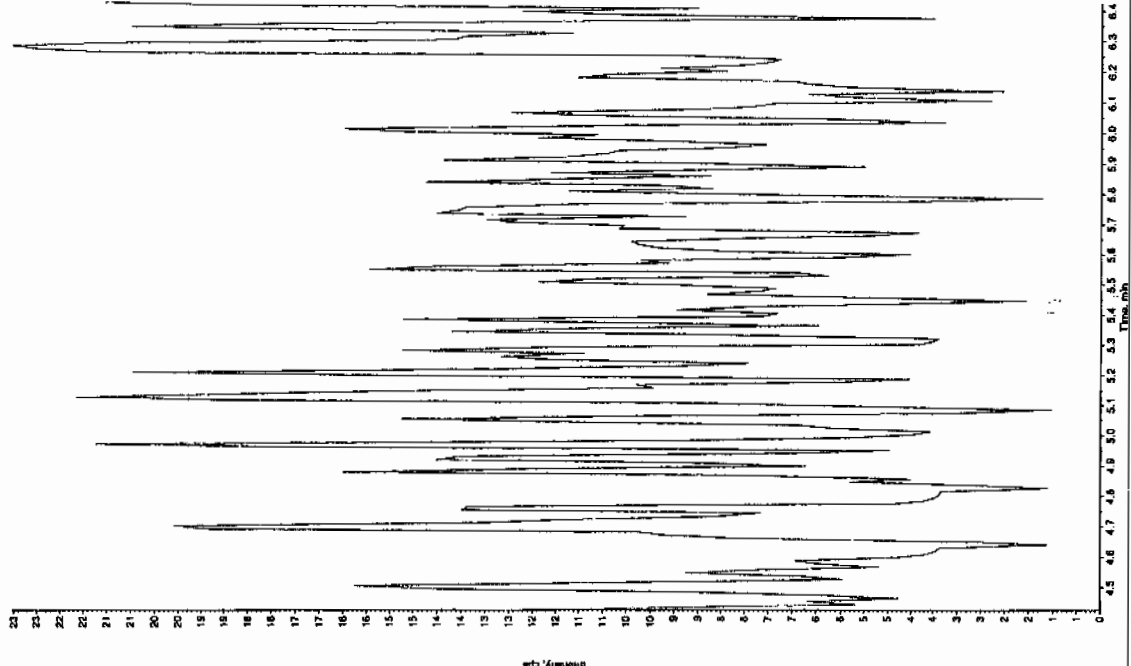


Sample Index:	1
Sample type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	3/23/2010
Acq. Time:	11:26:37 PM
Modified:	NO



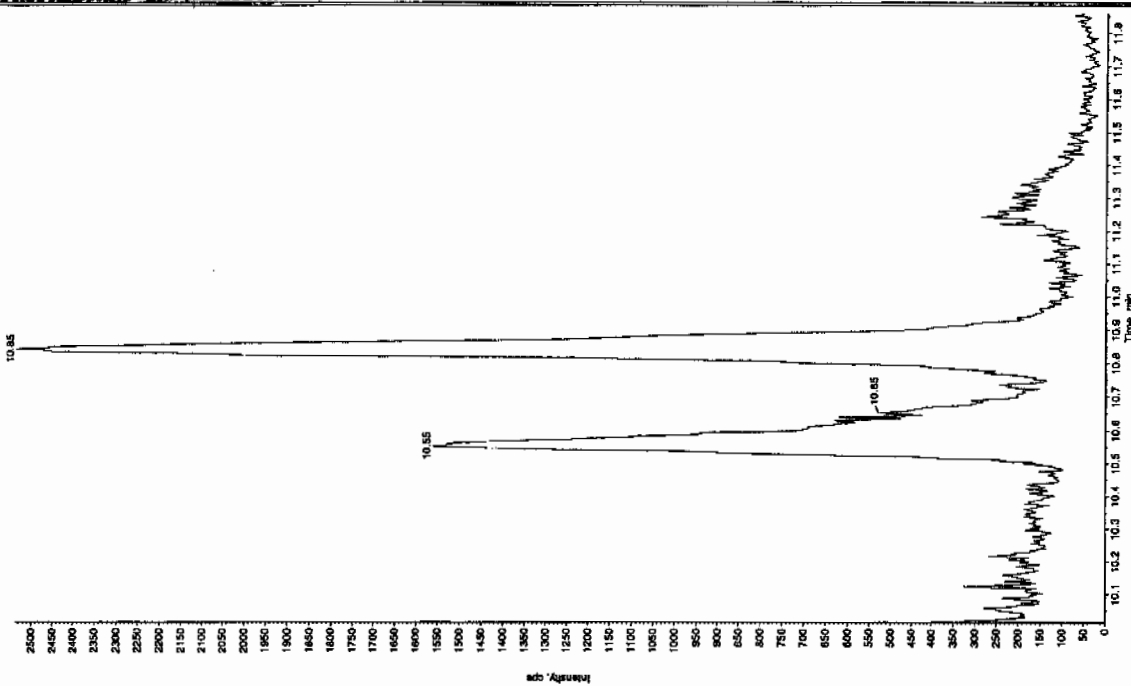
Sample Name: "247897015" Sample ID: "35770021ER" File: "EX930220082.wif"
 Peak Name: "24-O-methyl-5-nitrocholine" Mass(es): "165.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Time: 12:26:37 PM
 Modified: No



Sample Name: "247897015" Sample ID: "95770021ER" File: "EX930220082.wif"
 Peak Name: "tris(2-cresyl) phosphate" Mass(es): "359.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/23/2010
 Time: 12:26:37 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8006

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408035a

Date Analyzed: 09-APR-10 14:15

Units: ug/kg

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

*Concentration =

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

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\EXP0408035a

Date: 09-Apr-2010

Time: 14:15:18

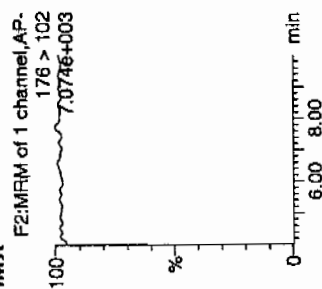
ID: 247897016

Vial: 2:4,B

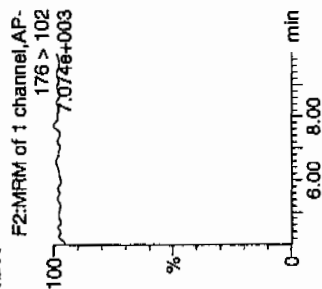
4/10/10

Ward / 957700 / 8022 / 2 /

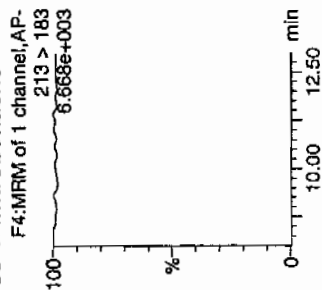
HMX



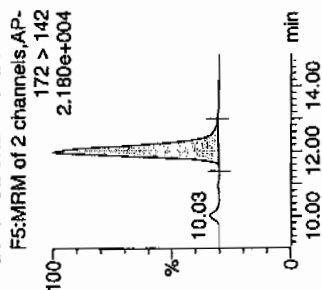
RDX



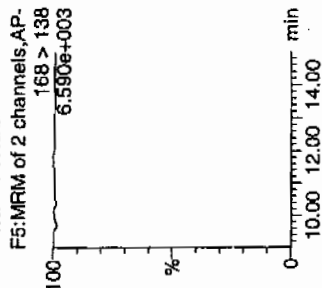
135-Trinitrobenzene



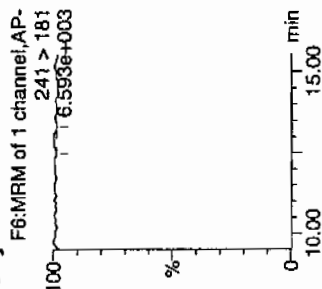
13-Dinitrobenzene-d4



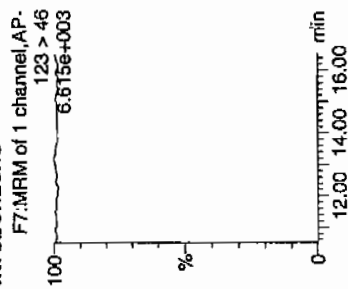
13-Dinitrobenzene



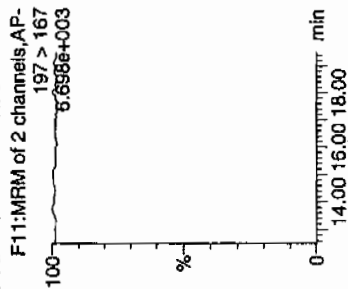
Tetryl



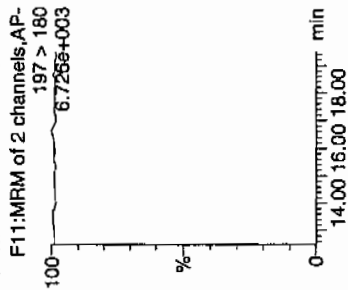
Nitrobenzene



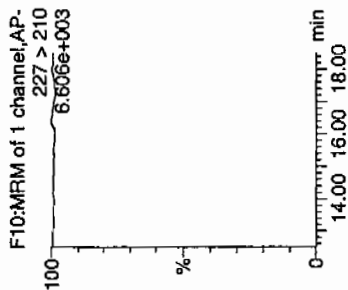
4-Amino-26-dinitrotoluene



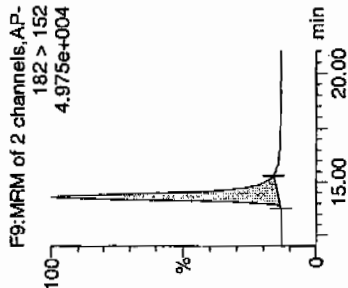
2-Amino-46-dinitrotoluene



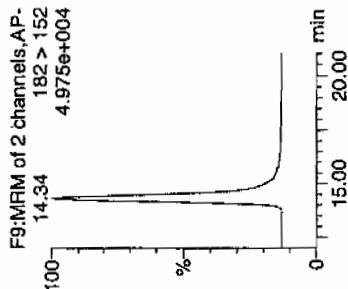
246-Trinitrotoluene



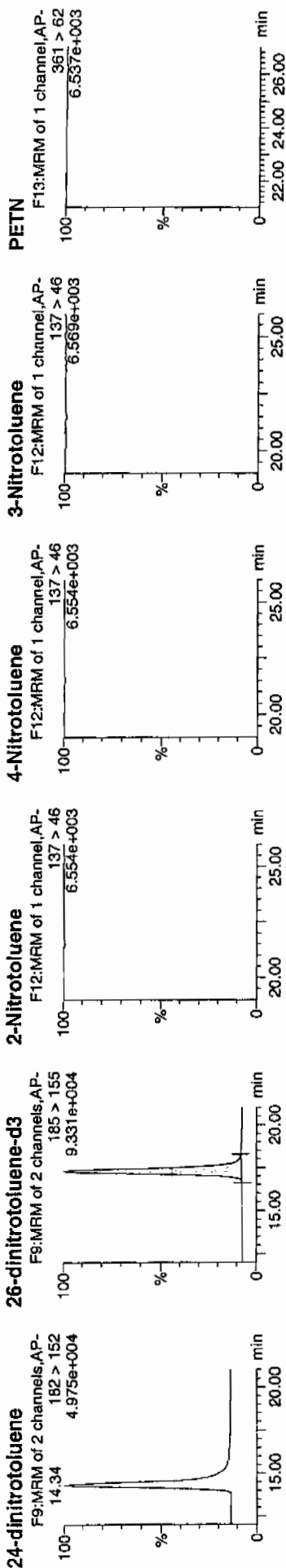
34-dinitrotoluene



26-dinitrotoluene



4/11/10



Name	Trace	RT	Area	S Area	Abs Resp.	Response	Flags	Mod Date	Mod Time	Inj/mL	%Rep	%Dev
HMX	247897016 176 > 102			5956.057								
RDX	247897016 176 > 102			5956.057								
135-Trinitrobenzene	247897016 213 > 183			5956.057								
13-Dinitrobenzene-d4	247897016 172 > 142	12.00	5956.057									
13-Dinitrobenzene	247897016 168 > 138				5956.057	5956.057	bb			458.2957	91.7	-8.3
Tetryl	247897016 241 > 181			5956.057								
Nitrobenzene	247897016 123 > 46			5956.057								
4-Amino-26-dinitrotoluene	247897016 197 > 167			34964.898				MM-	10-Apr-10	11:39:32		
2-Amino-46-dinitrotoluene	247897016 197 > 180			34964.898								
246-Trinitrotoluene	247897016 227 > 210			34964.898								
34-dinitrotoluene	247897016 182 > 152	14.34	17959.787	34964.898	17959.787	256.826	bb			250.4202	100.2	0.2
26-dinitrotoluene	247897016 182 > 152			34964.898								
24-dinitrotoluene	247897016 182 > 152			34964.898								
26-dinitrotoluene-d3	247897016 185 > 155	17.29	34964.898		34964.898	34964.898	bb			442.8337	88.6	-11.4
2-Nitrotoluene	247897016 137 > 46			34964.898								
4-Nitrotoluene	247897016 137 > 46			34964.898								
3-Nitrotoluene	247897016 137 > 46			34964.898								
PETN	247897016 361 > 62			34964.898								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8006

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220083.wiff

Date Analyzed: 23-MAR-10 12:42

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

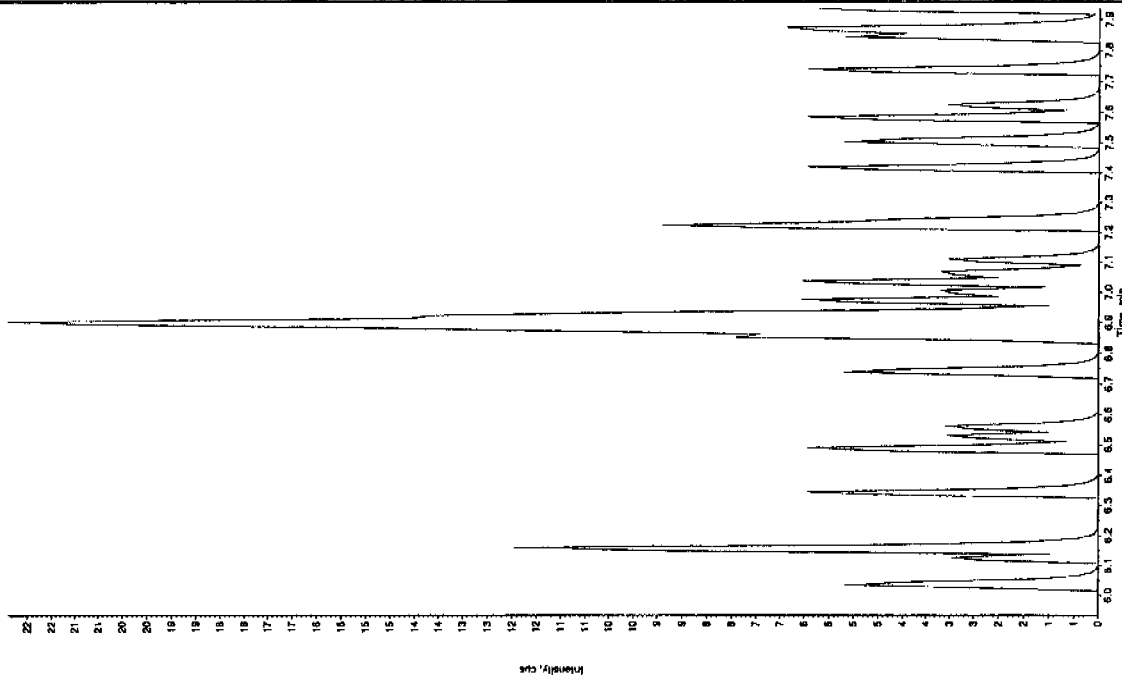
*Concentration =

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

Jan 3/27/10

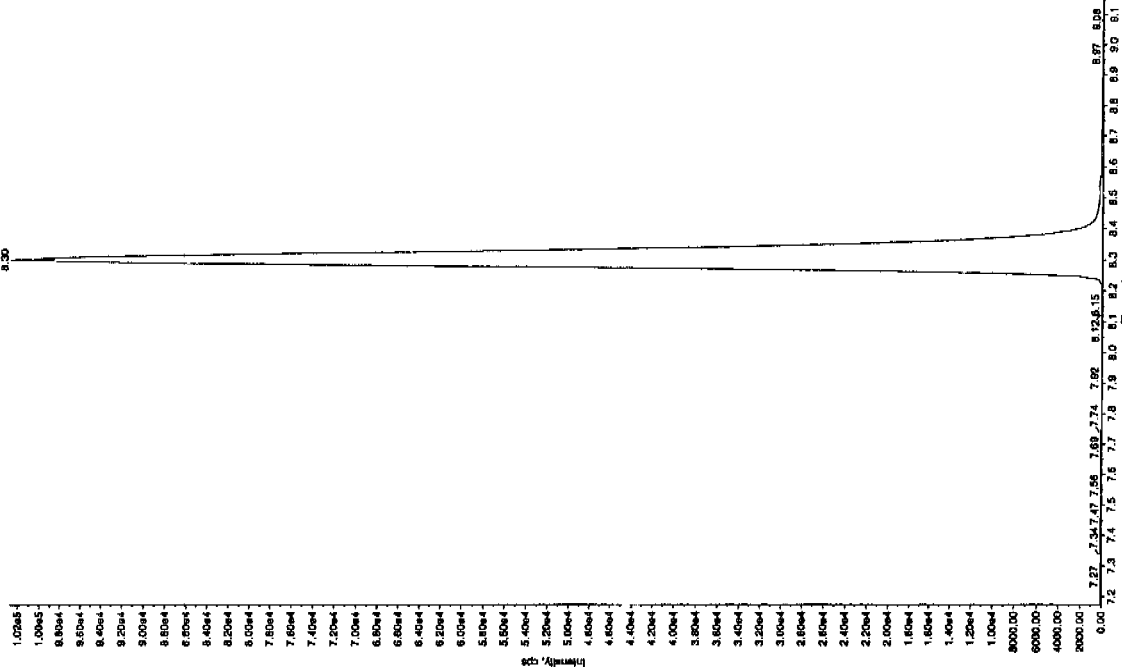
Sample Name: "247897016" Sample ID: "95770021ER" File: "EX50320083.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:42:19 PM
 Modified: No

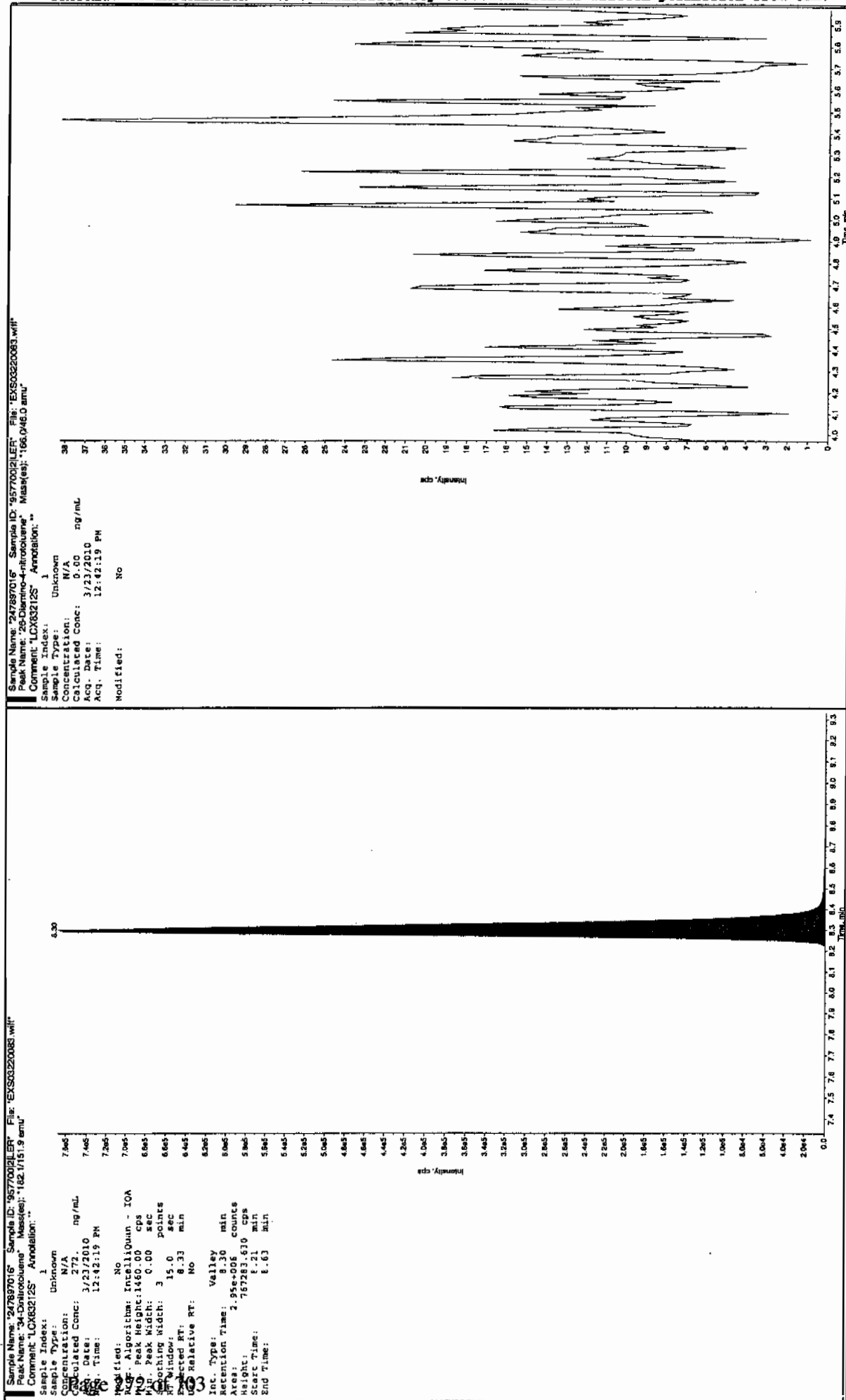


Sample Name: "247897016" Sample ID: "95770021ER" File: "EX50320083.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:42:19 PM
 Modified: No



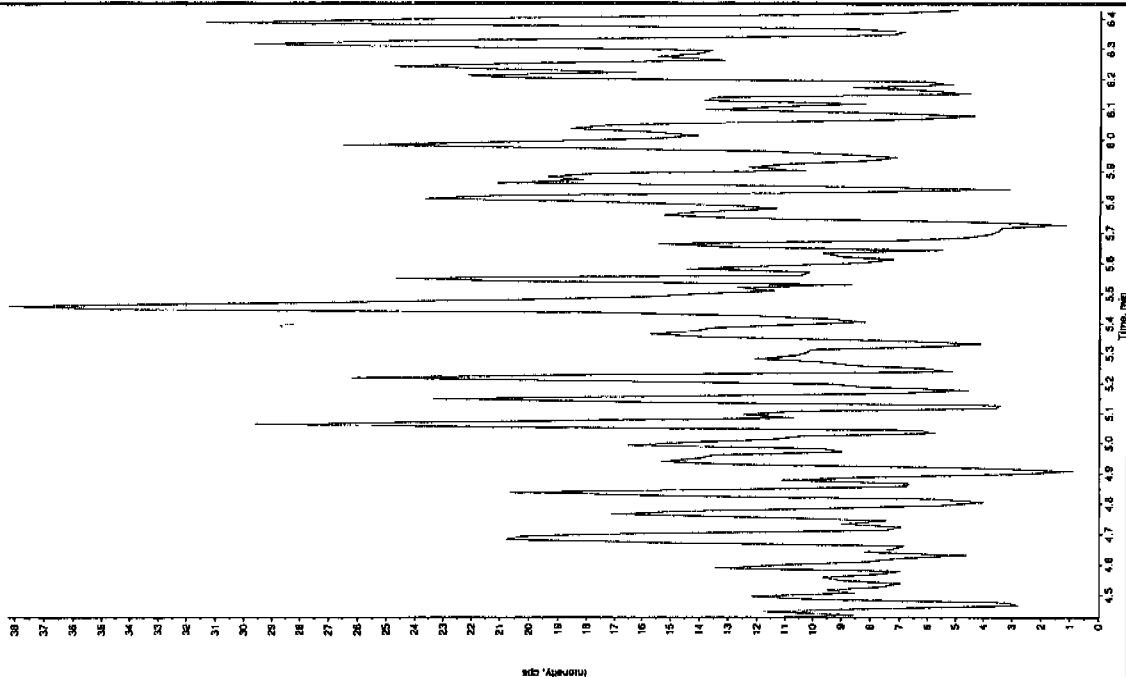
Jan 03/27/10



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

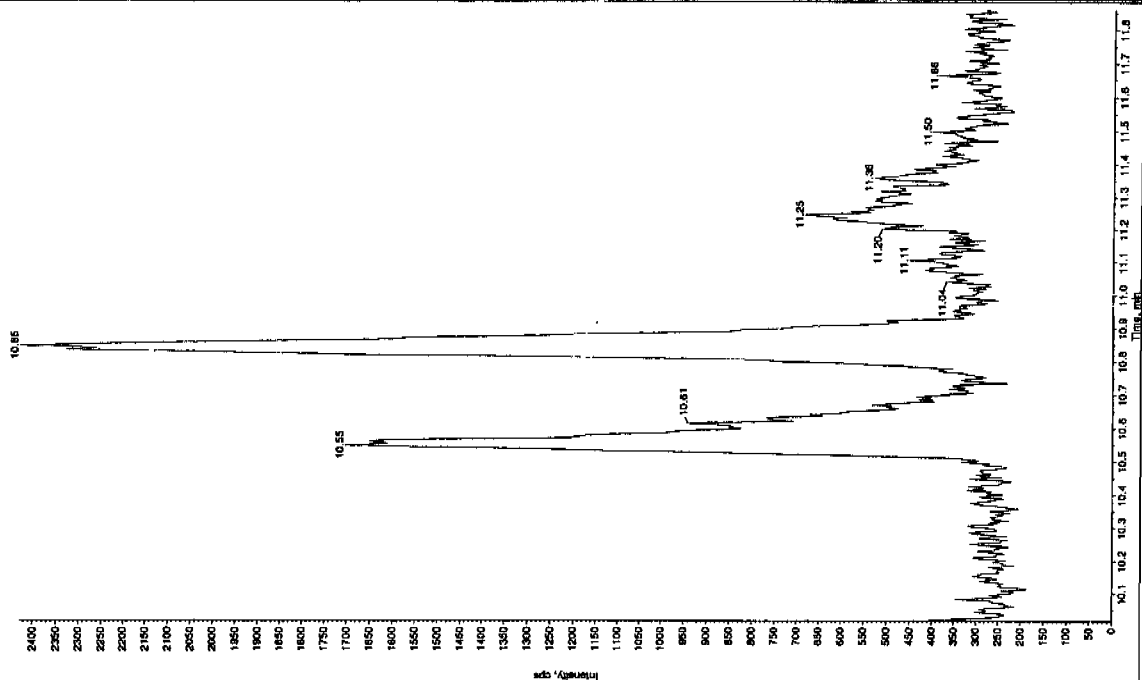
Sample Name: "247897016" Sample ID: "9577002JLER" File: "EXS03220083.wiff"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12:42:19 PM
 Acq. Time: 12:42:19 PM
 Modified: No



Sample Name: "247897016" Sample ID: "9577002JLER" File: "EXS03220083.wiff"
 Peak Name: "tri(C-oresyl) phosphata" Mass(es): "369.1491.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 12:42:19 PM
 Acq. Time: 12:42:19 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8001

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408039a

Date Analyzed: 09-APR-10 16:13

Units: ug/kg

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

*Concentration =

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\EXP0408039a

Date: 09-Apr-2010

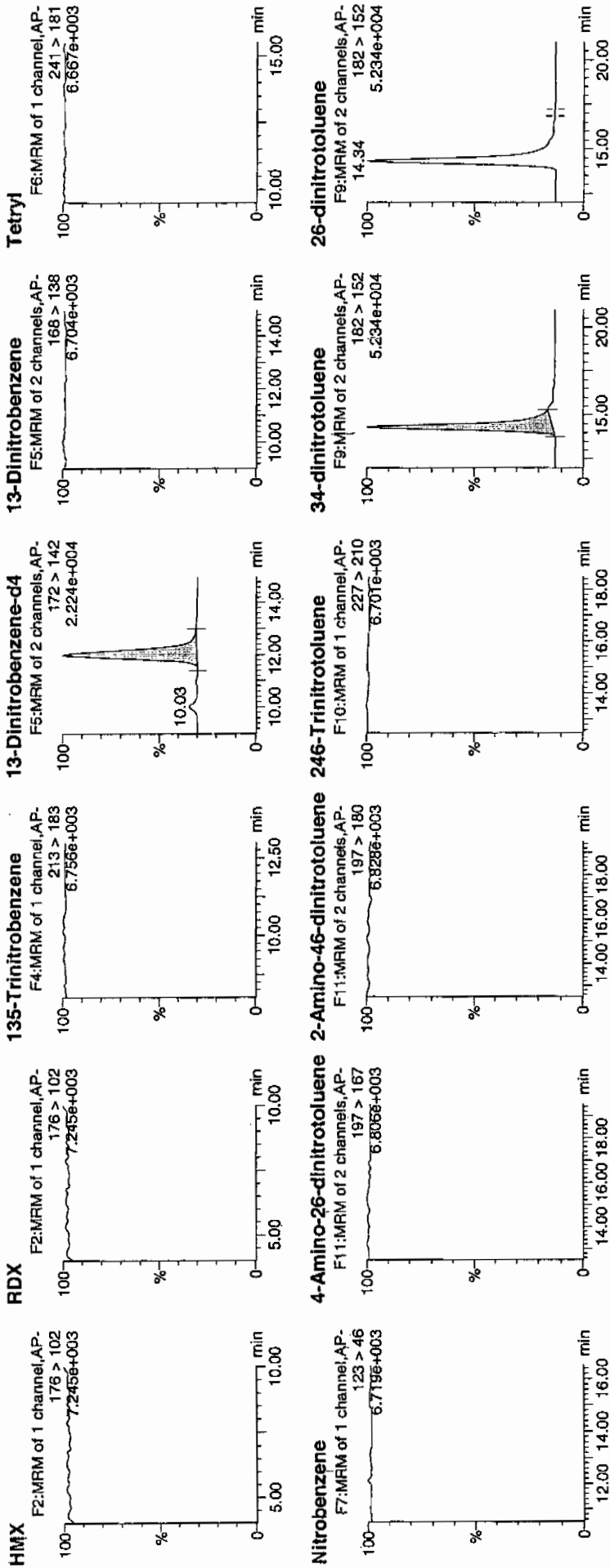
Time: 16:13:22

ID: 247897017

Vial: 2:4,C

left
4/10/10

WAVE 957700 / 8022 / 2 /



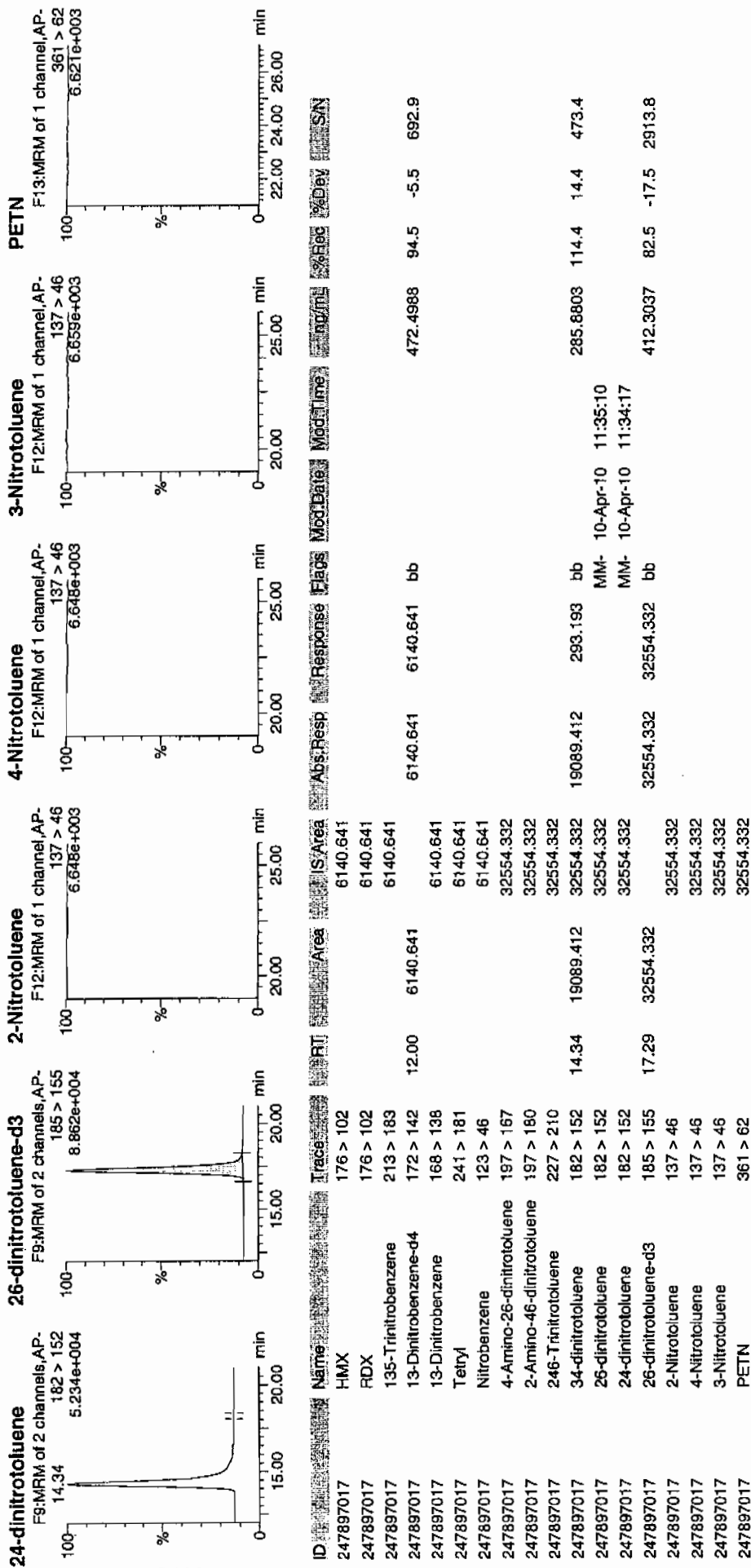
amm
04/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 28 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: RE15-10-8001

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220087.wiff

Date Analyzed: 23-MAR-10 13:45

Units: ug/kg

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

*Concentration =

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

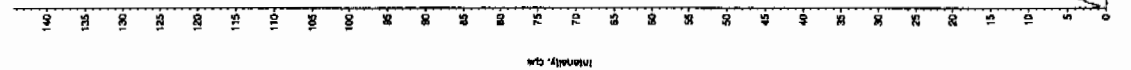
dan 3/27/10

Sample Name: "247897017" Sample ID: "95770021LER" File: "EXS03220087.wht"

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

Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010
 Acq. Date: 3/23/2010
 Acq. Time: 1:45:09 PM
 Modified: No

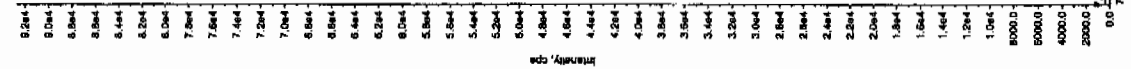


Sample Name: "247897017" Sample ID: "95770021LER" File: "EXS03220087.wht"

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

Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/23/2010
 Acq. Date: 3/23/2010
 Acq. Time: 1:45:09 PM
 Modified: No

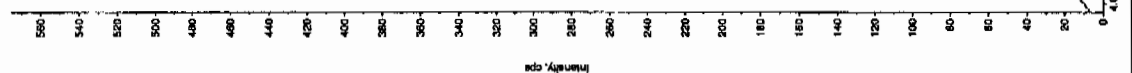


Sample Name: 247897017 Sample ID: 95770021ER File: EX903220087.wiff

Peak Name: 26-Diamino-4-nitrofluorene Mass(es): 186.046.0 amu

Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.72/20.0 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 1:45:09 PM
 Modified: No



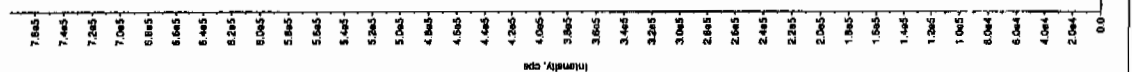
Sample Name: 247897017 Sample ID: 95770021ER File: EX903220087.wiff

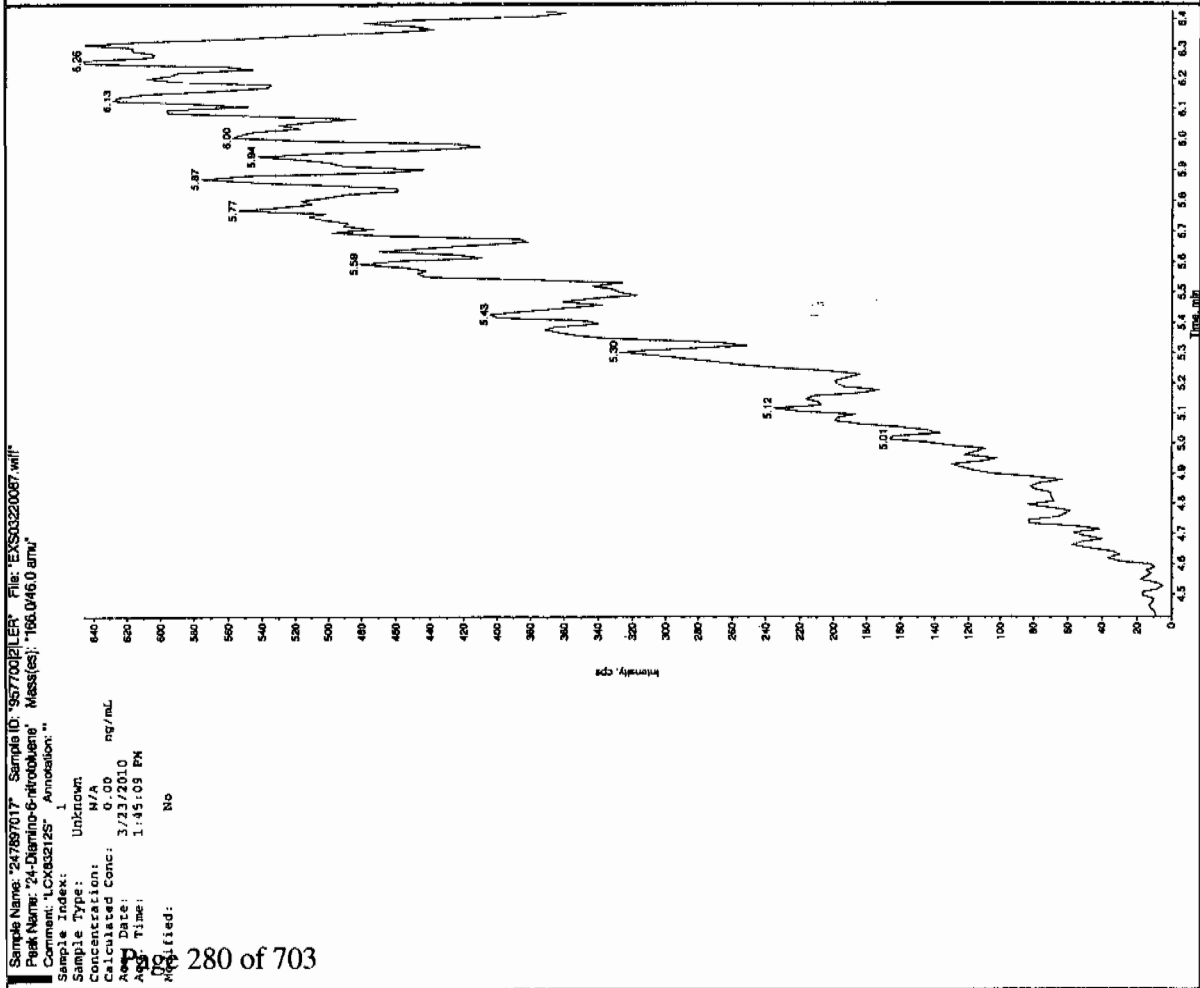
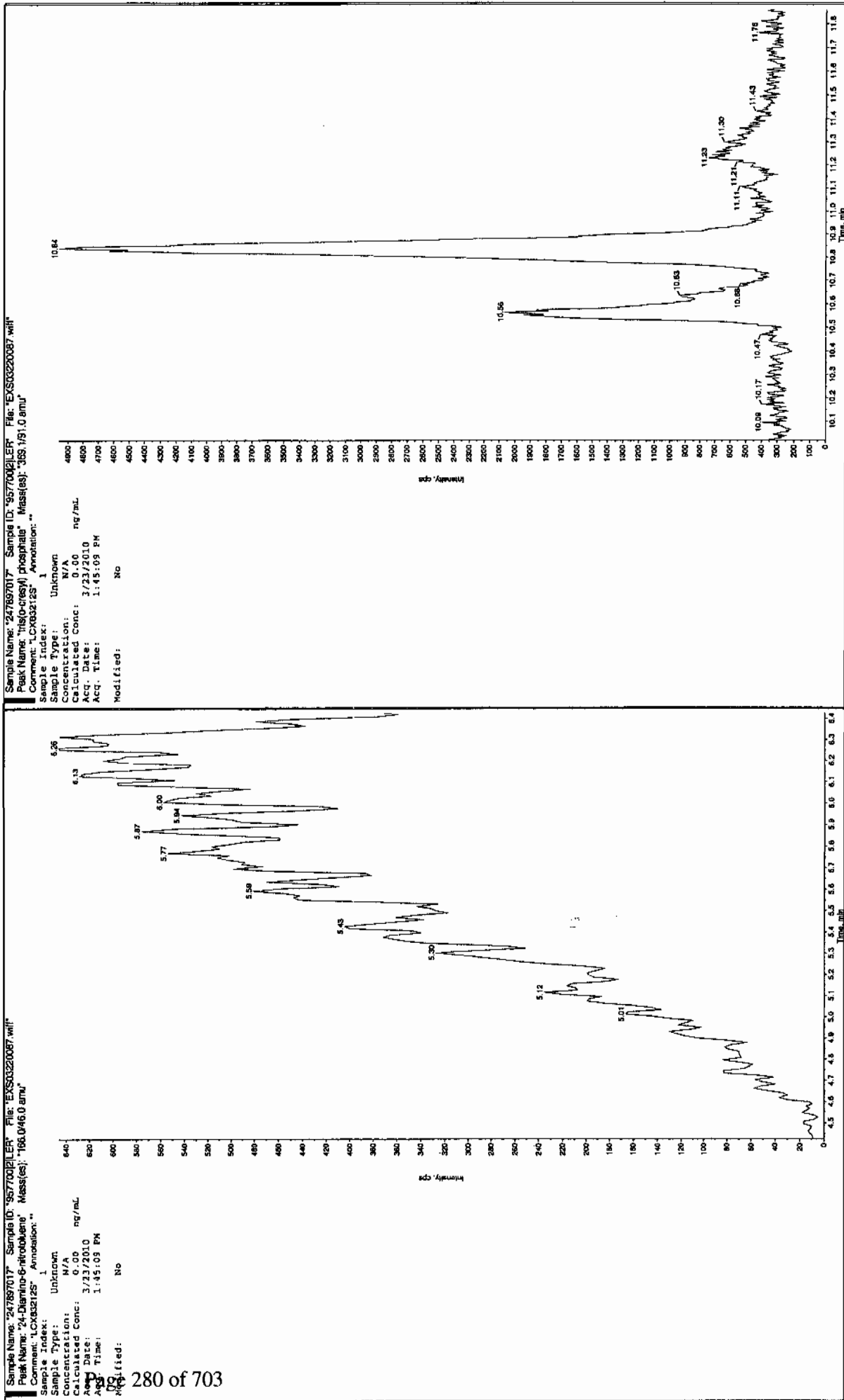
Peak Name: 34-Dinitrofluorene Mass(es): 162.046.0 amu

Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 262 ng/mL
 Calculated Conc: 3.72/20.0
 Acq. Date: 3/23/2010
 Acq. Time: 1:45:09 PM
 Modified: No

Int. Type: Valley
 Retention Time: 8.31 min
 Area: 2.85e+005 counts
 Height: 778217.407 cps
 Start Time: 8.23 min
 End Time: 8.34 min





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8012

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408040a

Date Analyzed: 09-APR-10 16:46

Units: ug/kg

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

*Concentration =

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\EXP0408040a

Date: 09-Apr-2010

Time: 16:46:08

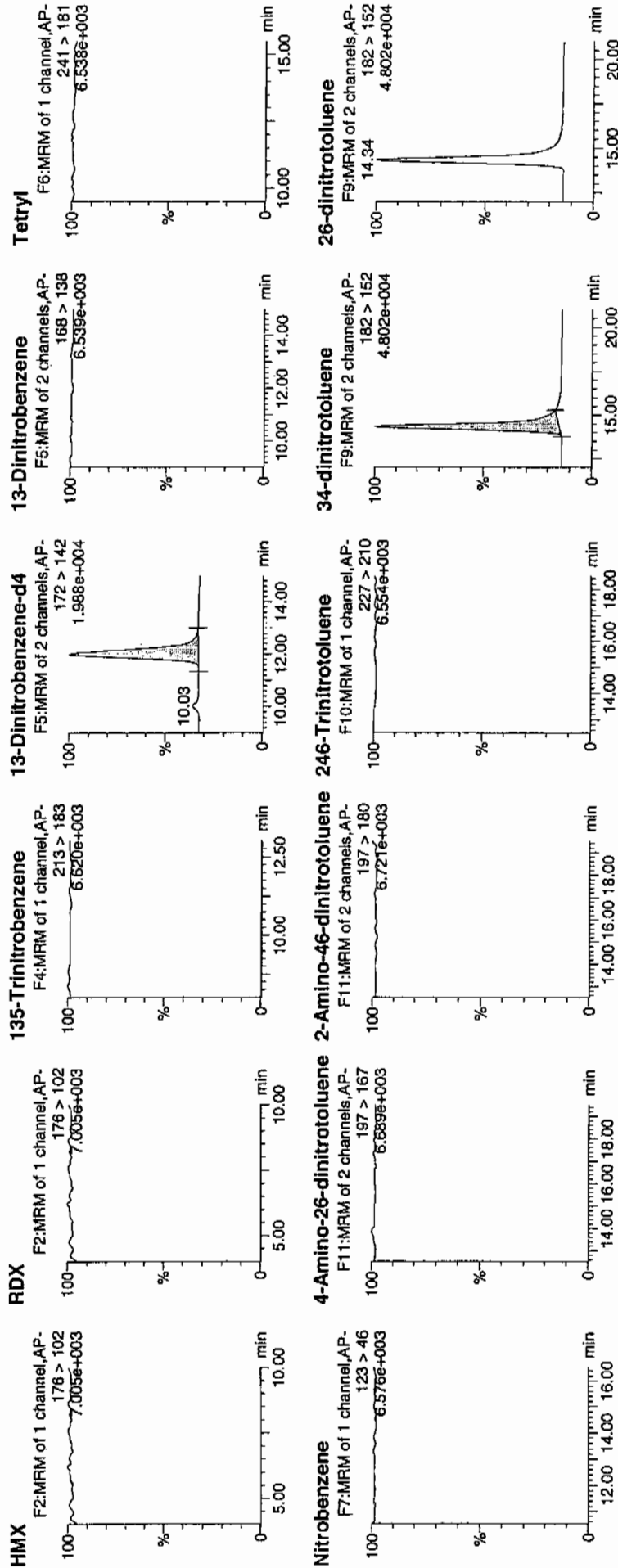
ID: 247897018

Vial: 2:4,D

4/10/10

WAVE 1957700 (SOL 2) / 21

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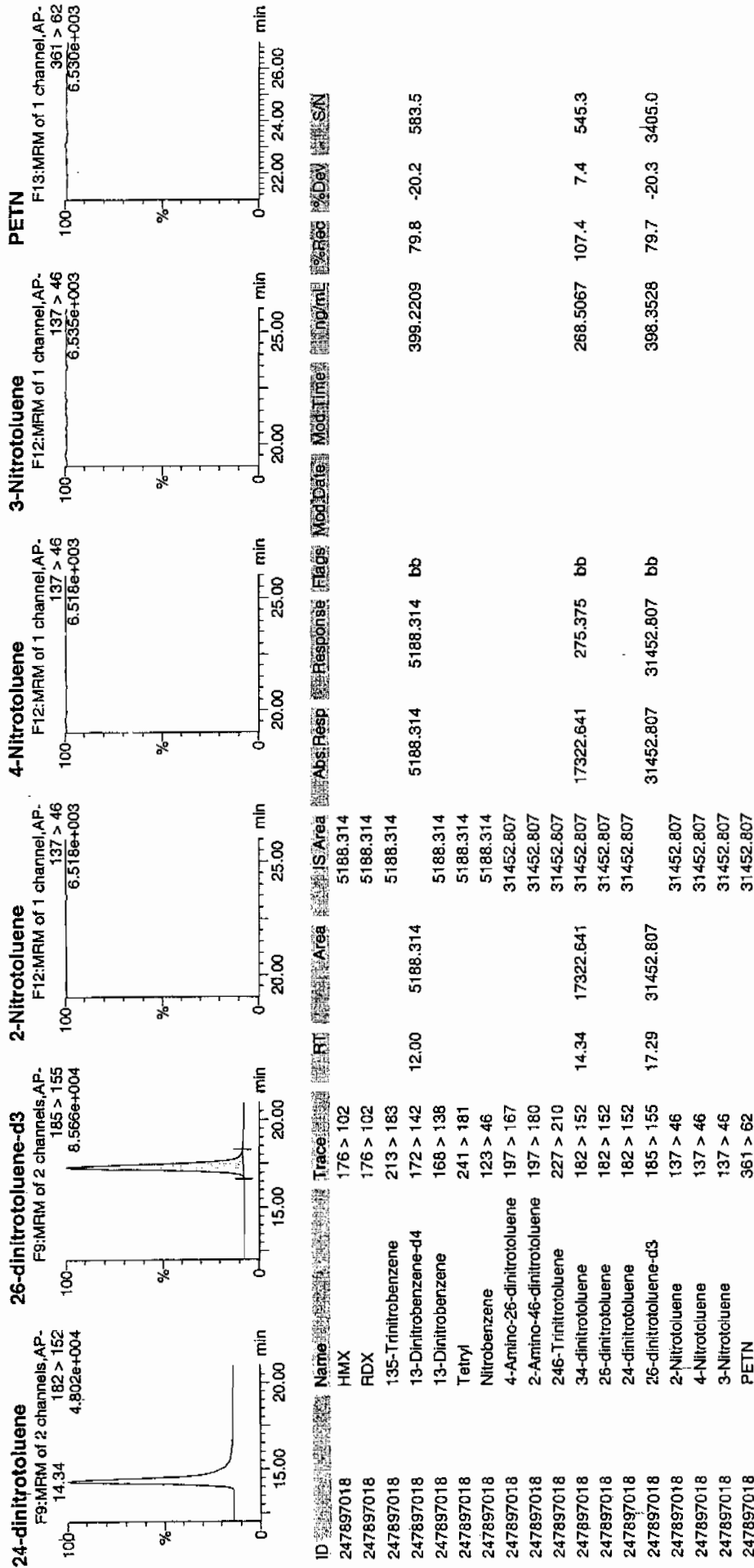
4/11/10

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



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8012

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220088.wiff

Date Analyzed: 23-MAR-10 14:02

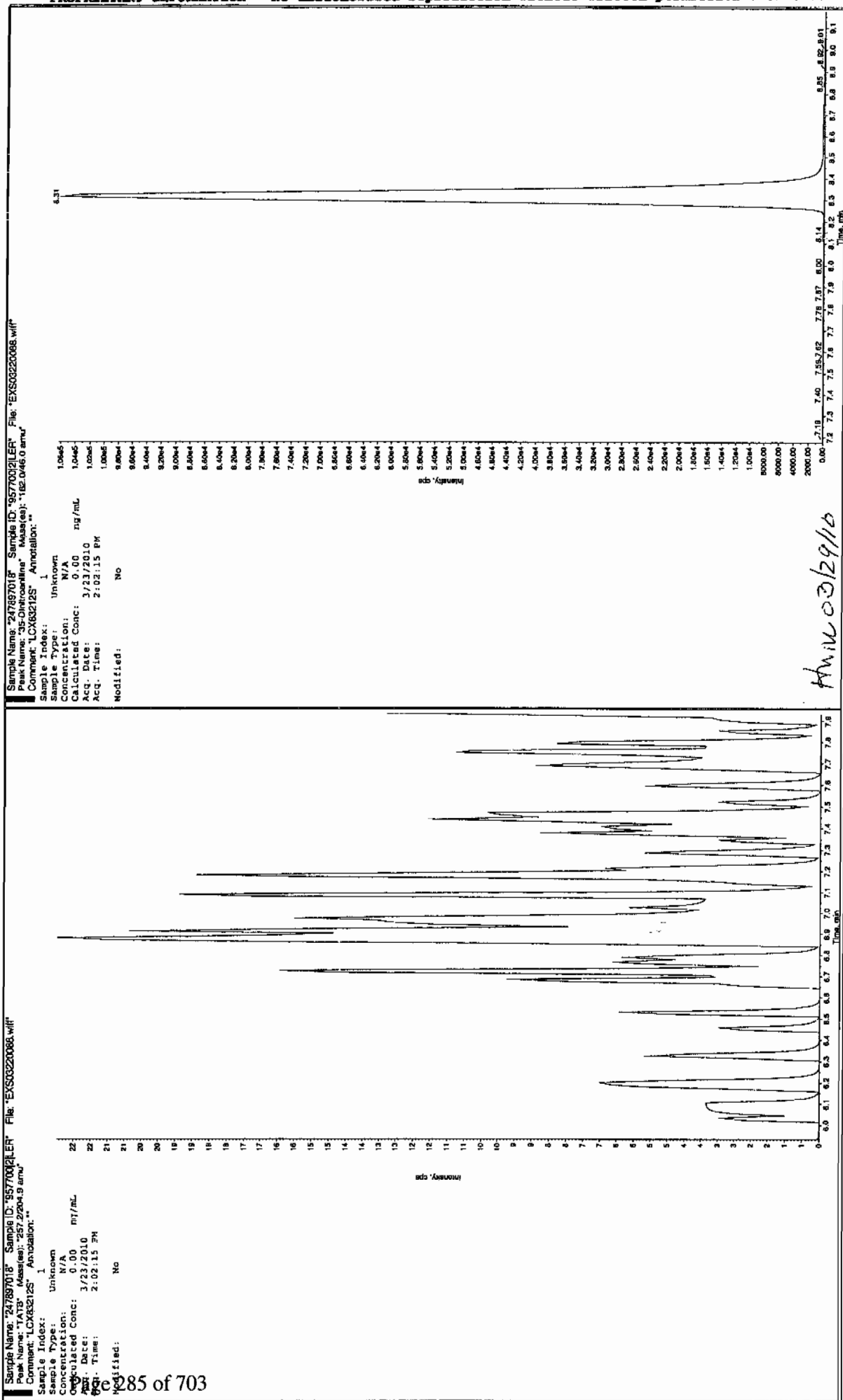
Units: ug/kg

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

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

LCN 3/27/10



Sample Name: "247897018" Sample ID: "95770021LER" File: "EXS03220088.wif"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.17151.9 amu"
Comment: "LCX63212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	3/23/2010
Acq. Time:	2:02:15 PM
Modified:	No

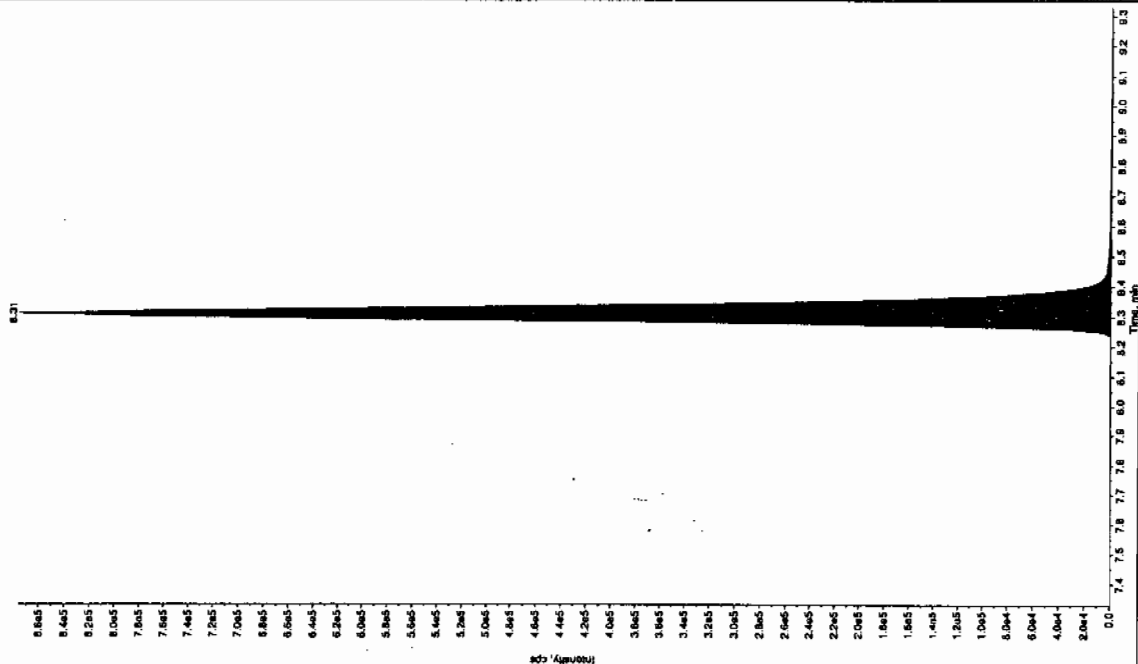
Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Regulated Conc:	294. ng/mL
Test Date:	3/23/2010
Test Time:	2:02:15 PM

```

modified:      No
Proc. Algorithm: IntelliQuan - IQA
              1000000
              Peak Height:1460.00 cps
              Peak Width: 0.00 sec
              Sweeping width: 3 points
              Window: 15.0 sec
              Selected RT: 8.33 min
              Relative RT: NO

```

Unit Type:	Valley
Retention Time:	8.31 min
Area:	3.19e+006 counts
Height:	875978.638 cps
Start Time:	8.20 min
End Time:	8.68 min



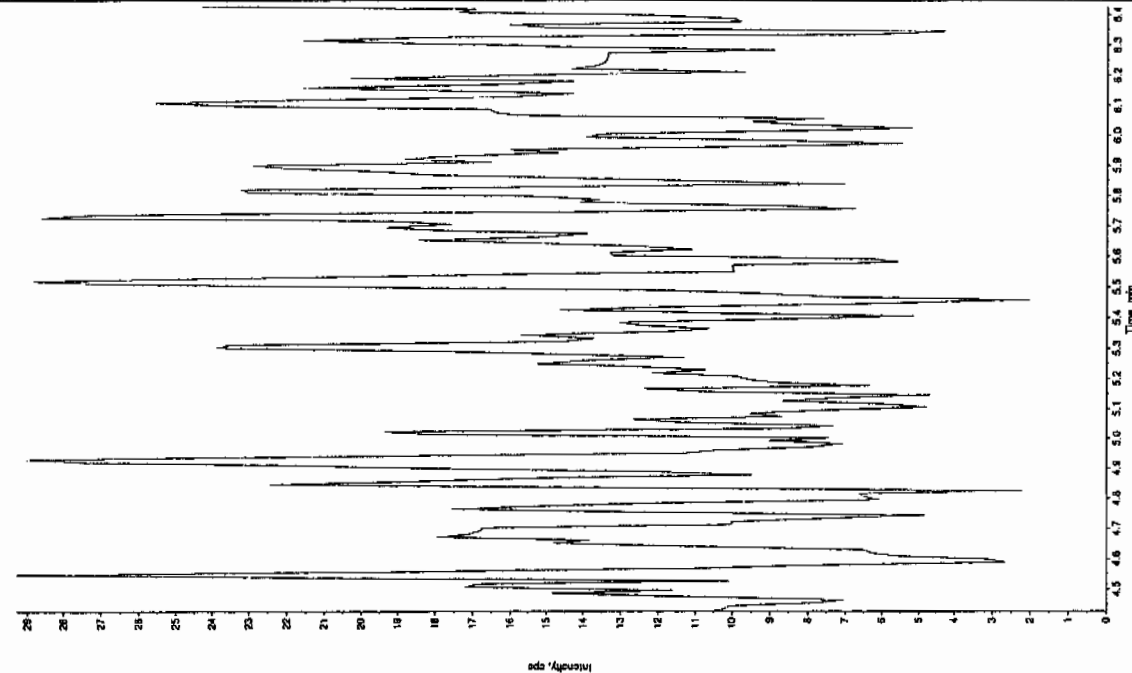
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "24789701B" Sample ID: "95770021L1E1" File: "EXS03220088.wif"

Peak Name: "bis(cresyl) phosphate" Mass(es): "365.191.0 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: 2:02:15 PM
 Modified: No



Sample Name: "24789701B" Sample ID: "95770021L1E1" File: "EXS03220088.wif"

Peak Name: "24-Dinitro-5-nitroindole" Mass(es): "166.0460 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: 2:02:15 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8008

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408041a

Date Analyzed: 09-APR-10 17:15

Units: ug/kg

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

*Concentration =

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

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\EXP0408041a

Date: 09-Apr-2010

Time: 17:15:37

ID: 247897019

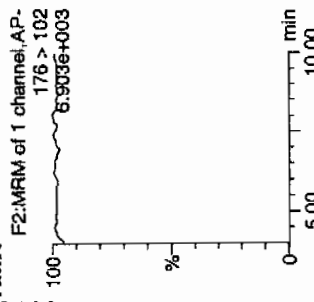
Vial: 2:4,E

4/10/10

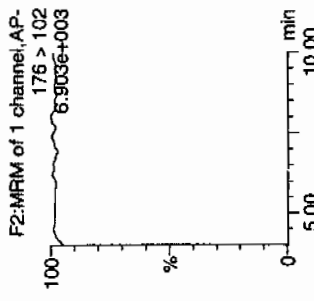
21

957700 | 8000 | 21

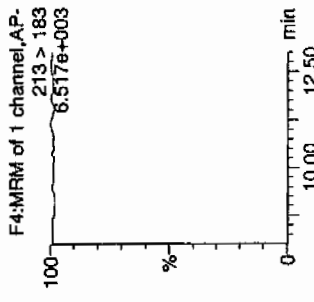
HMX



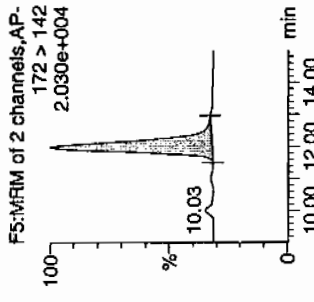
RDX



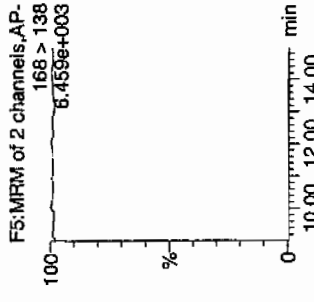
135-Trinitrobenzene



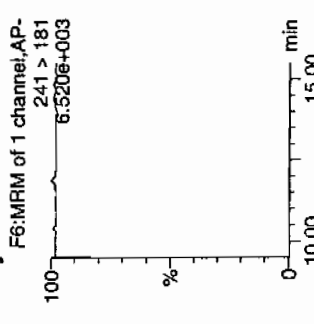
13-Dinitrobenzene-d4



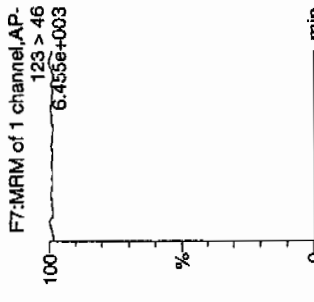
13-Dinitrobenzene



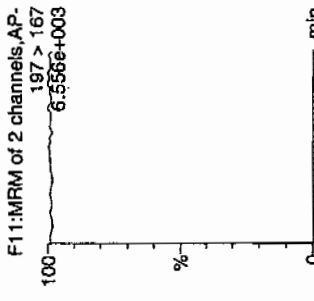
Tetryl



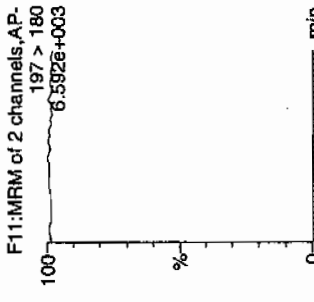
Nitrobenzene



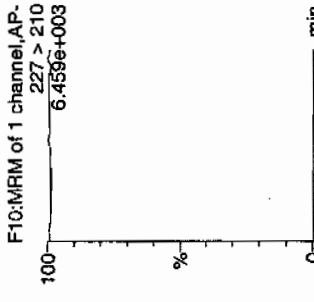
4-Amino-26-dinitrotoluene



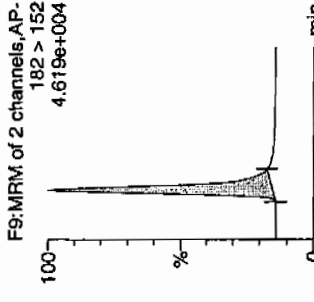
2-Amino-46-dinitrotoluene



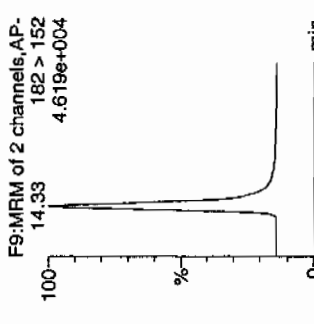
246-Trinitrotoluene



34-dinitrotoluene



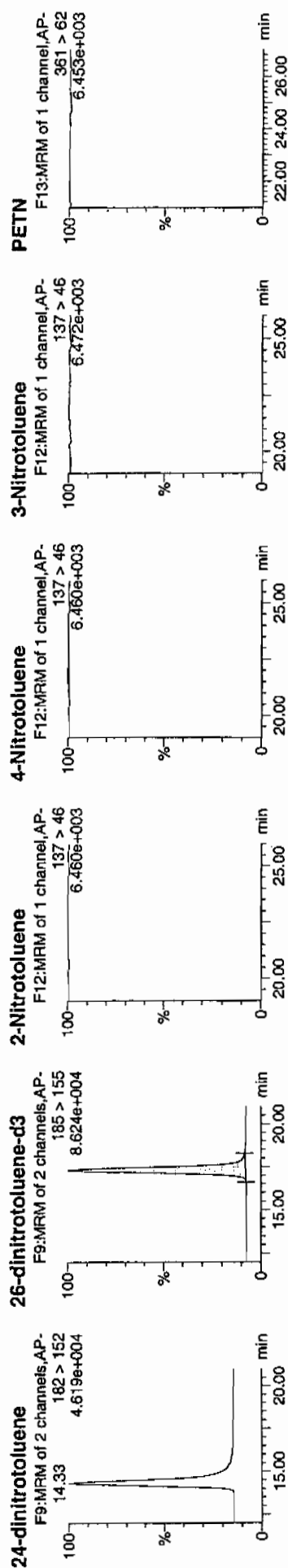
26-dinitrotoluene



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

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[illegible]

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8008

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220089.wiff

Date Analyzed: 23-MAR-10 14:17

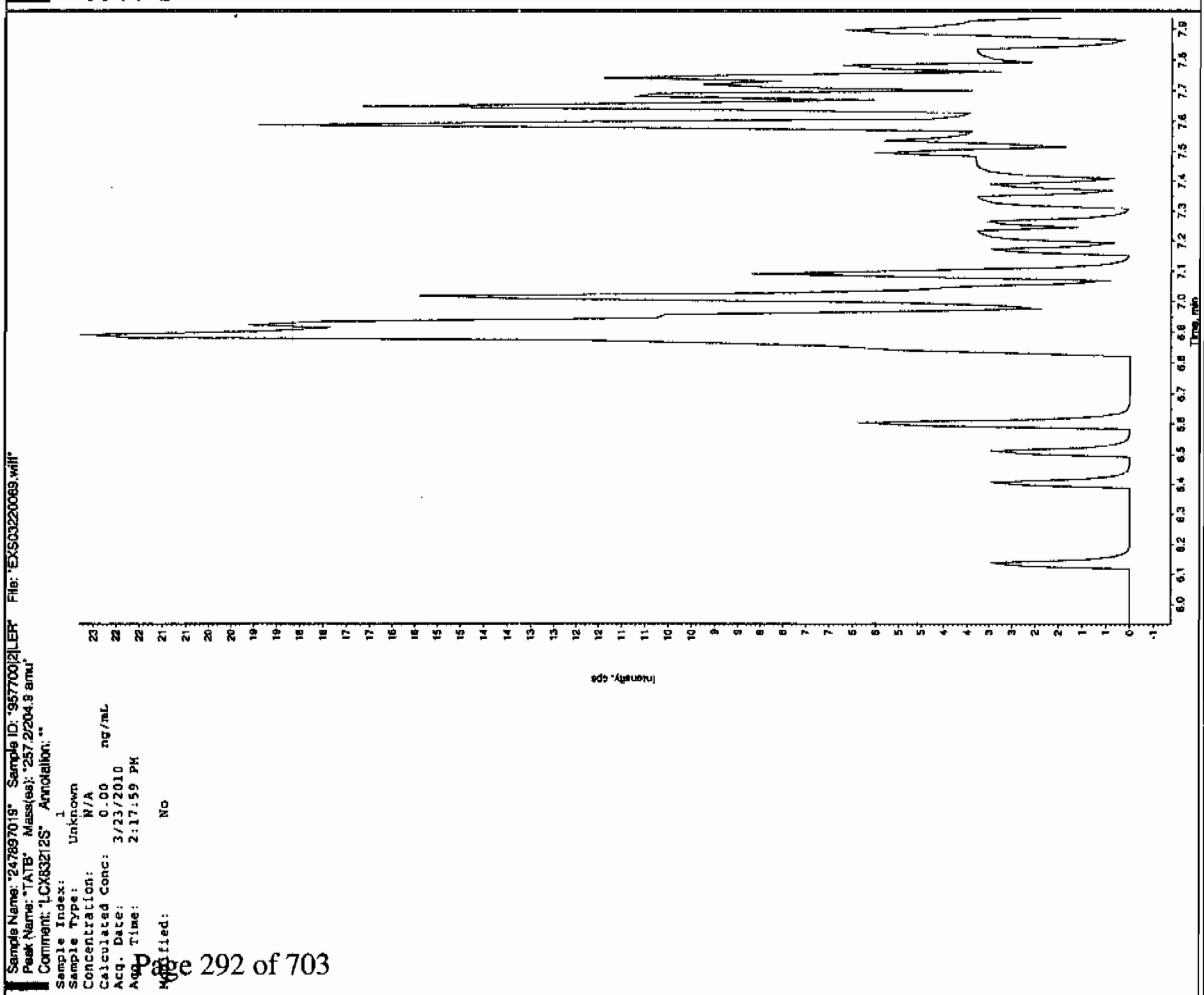
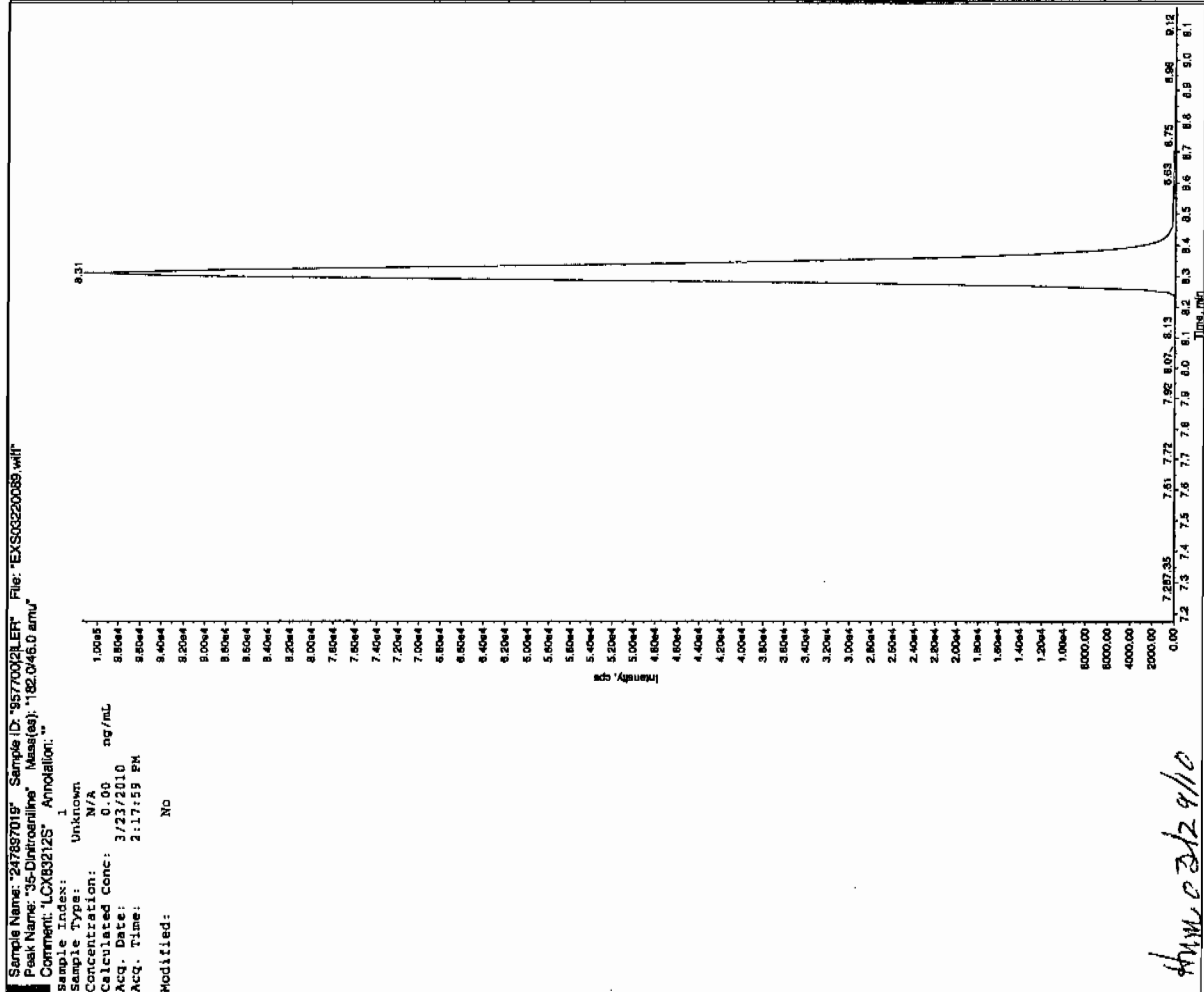
Units: ug/kg

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

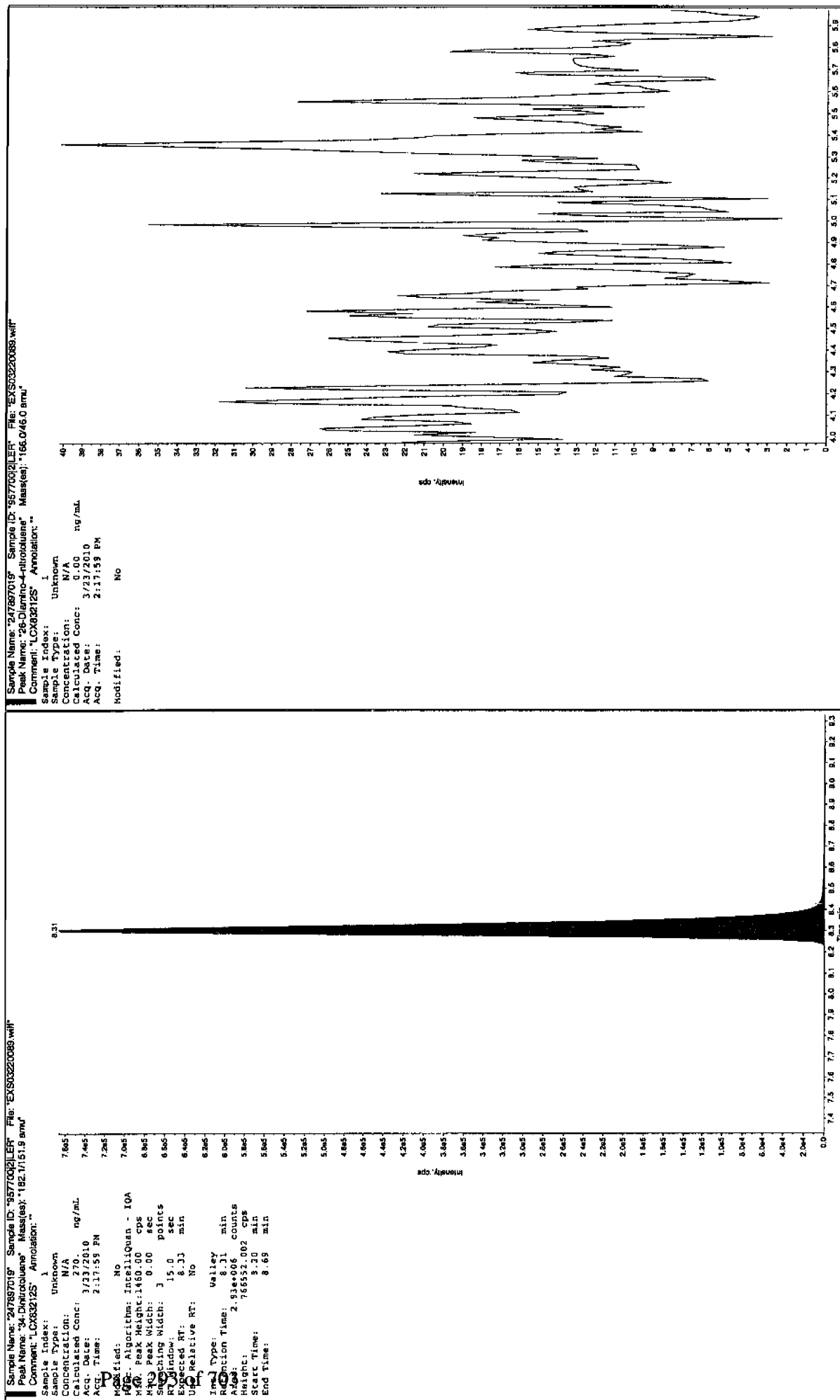
*Concentration =

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

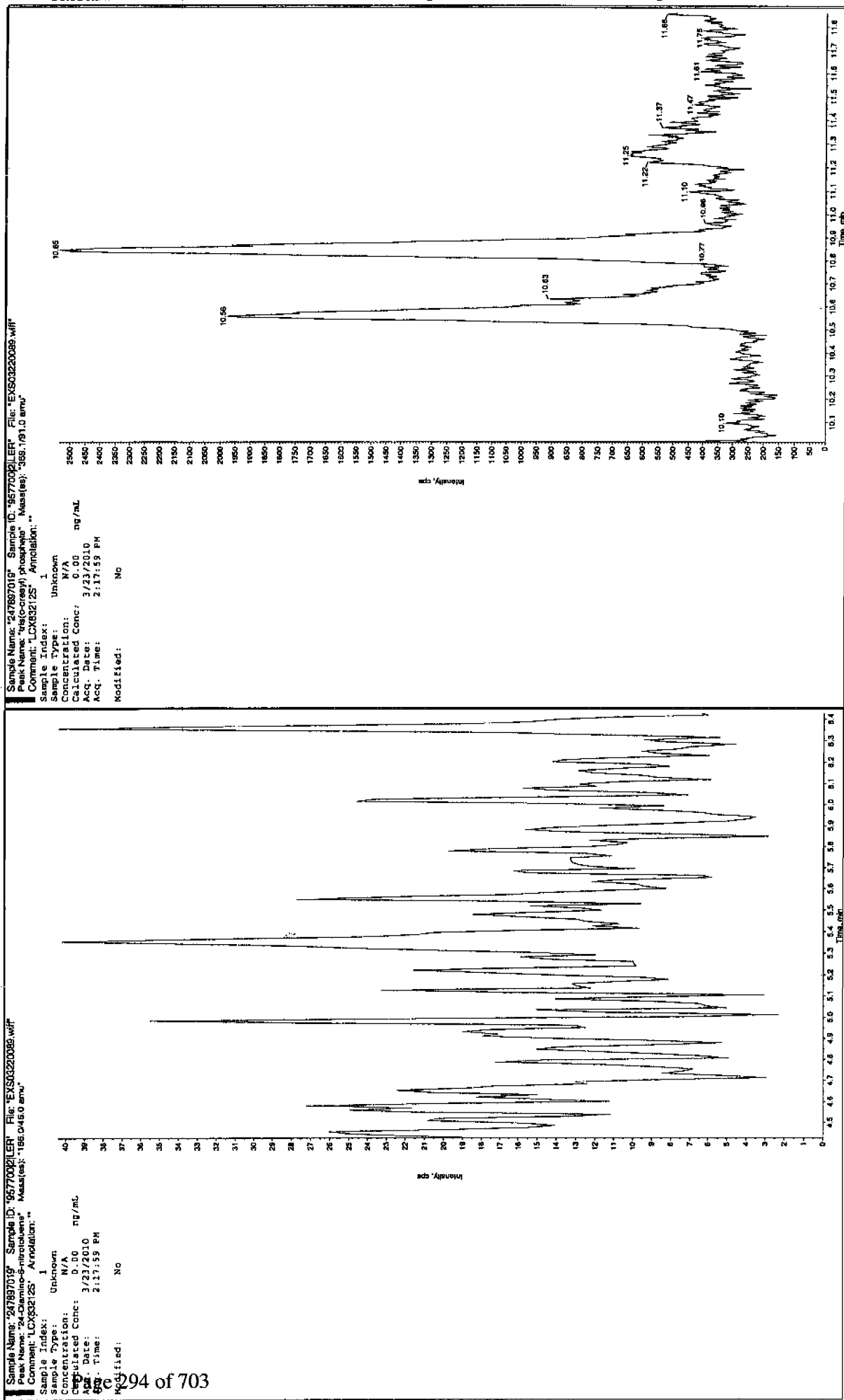
Jan 3/27/10



Jan 3/27/10



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



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8005

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897020

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408042a

Date Analyzed: 09-APR-10 17:45

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\EXP0408042a

Date: 09-Apr-2010

Time: 17:45:06

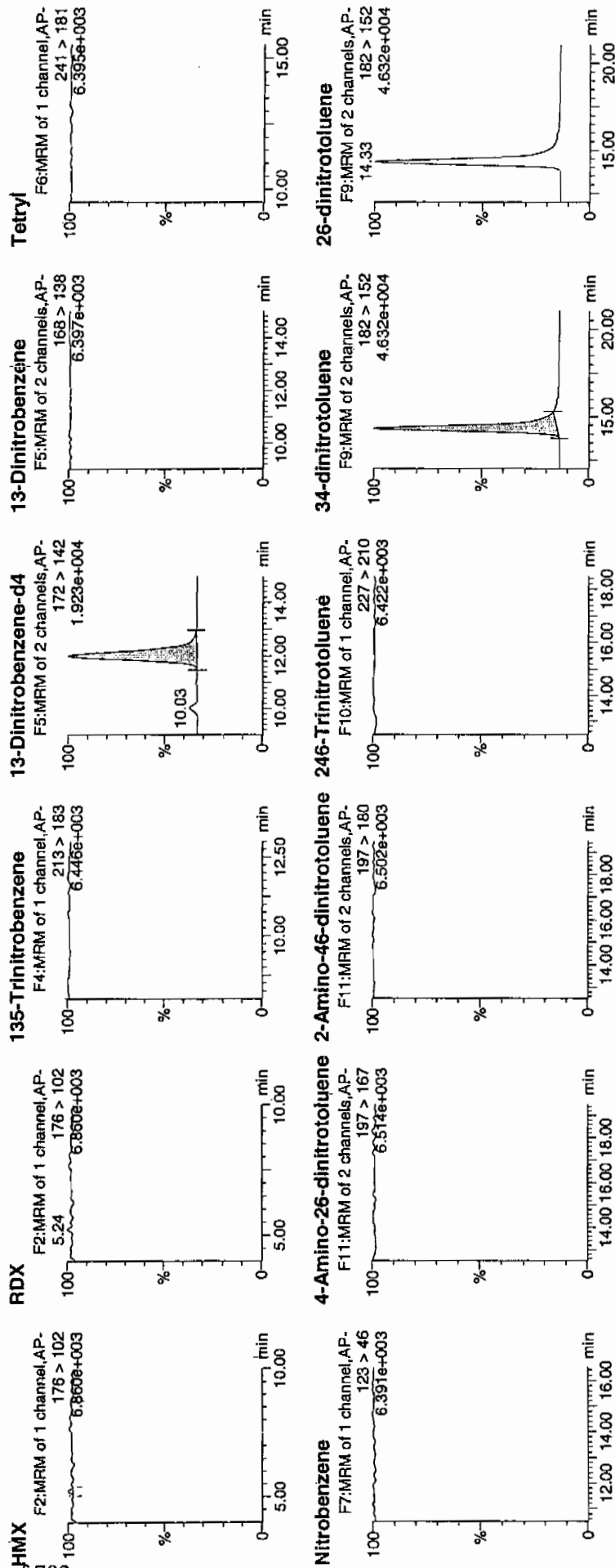
ID: 247897020

Vial: 2:4,F

not
4/10/10

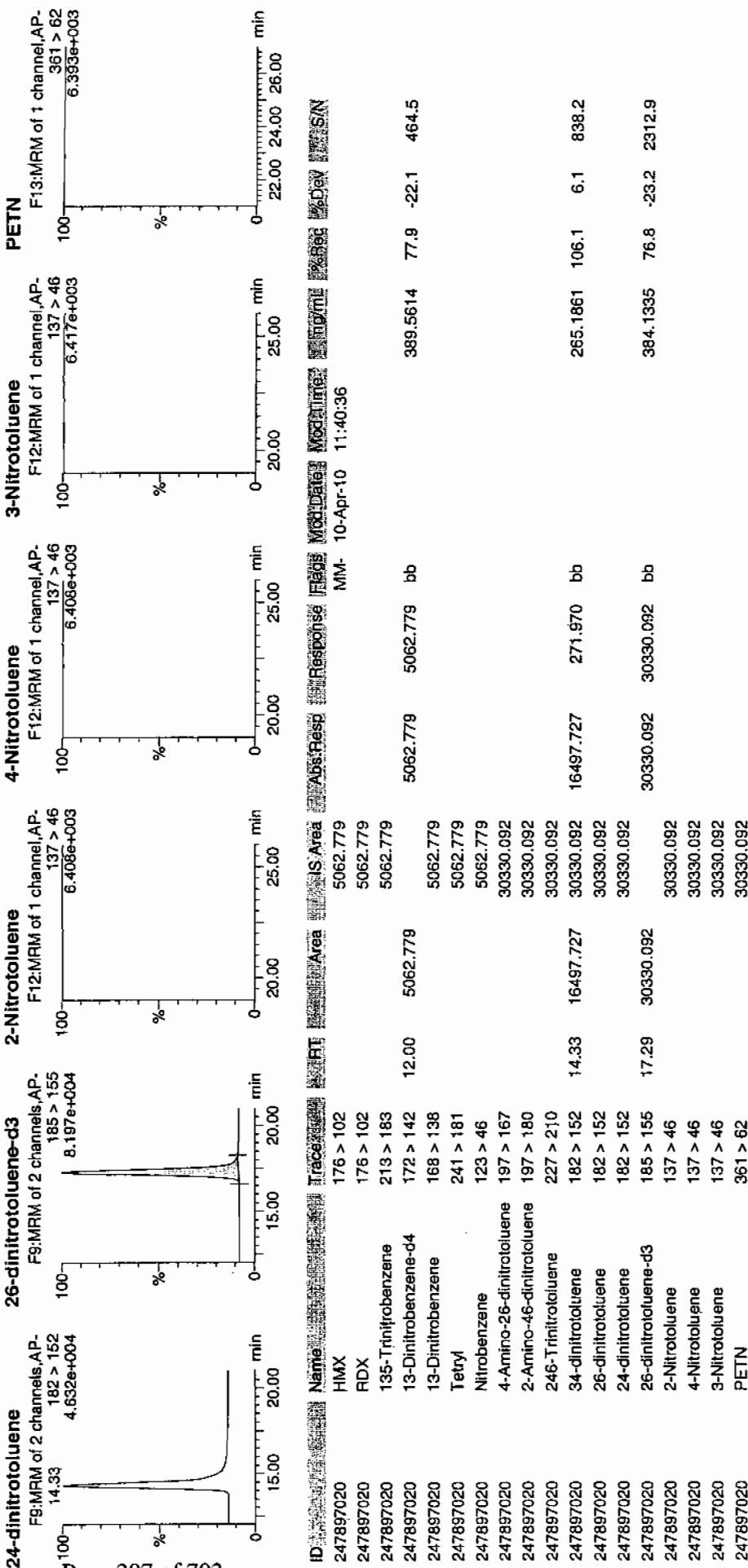
LAUL 957700 | SOLZ 121

296
703



done 4/11/10

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: RE15-10-8005

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 247897020

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220090.wiff

Date Analyzed: 23-MAR-10 14:33

Units: ug/kg

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

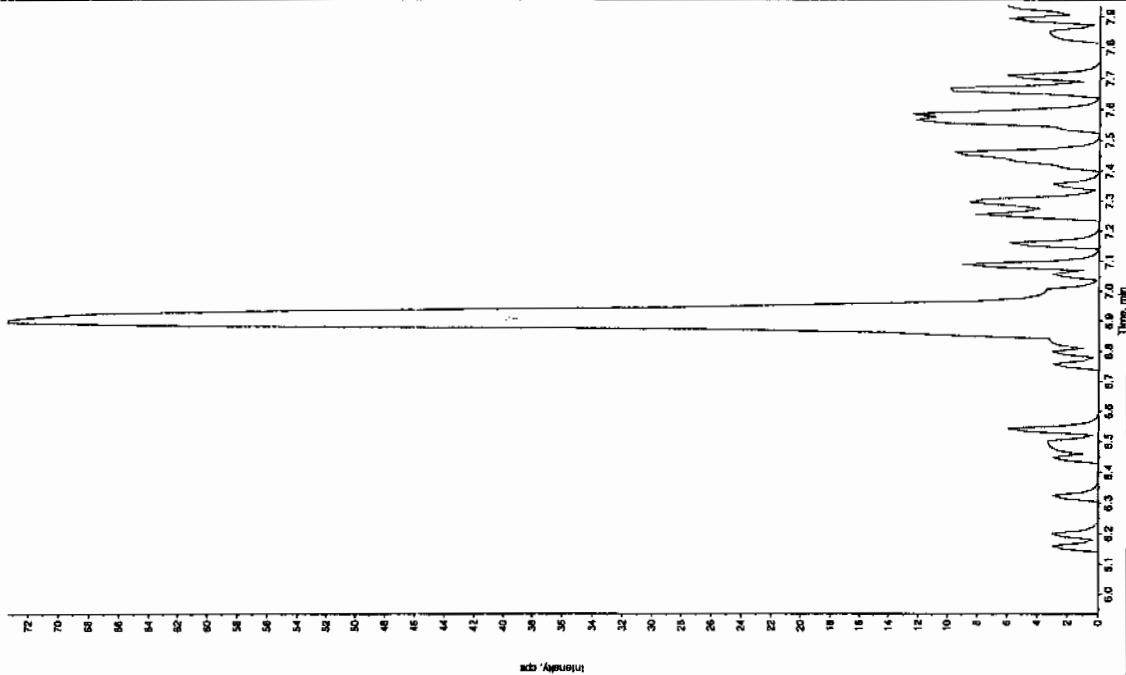
*Concentration =

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

See 3/27/10

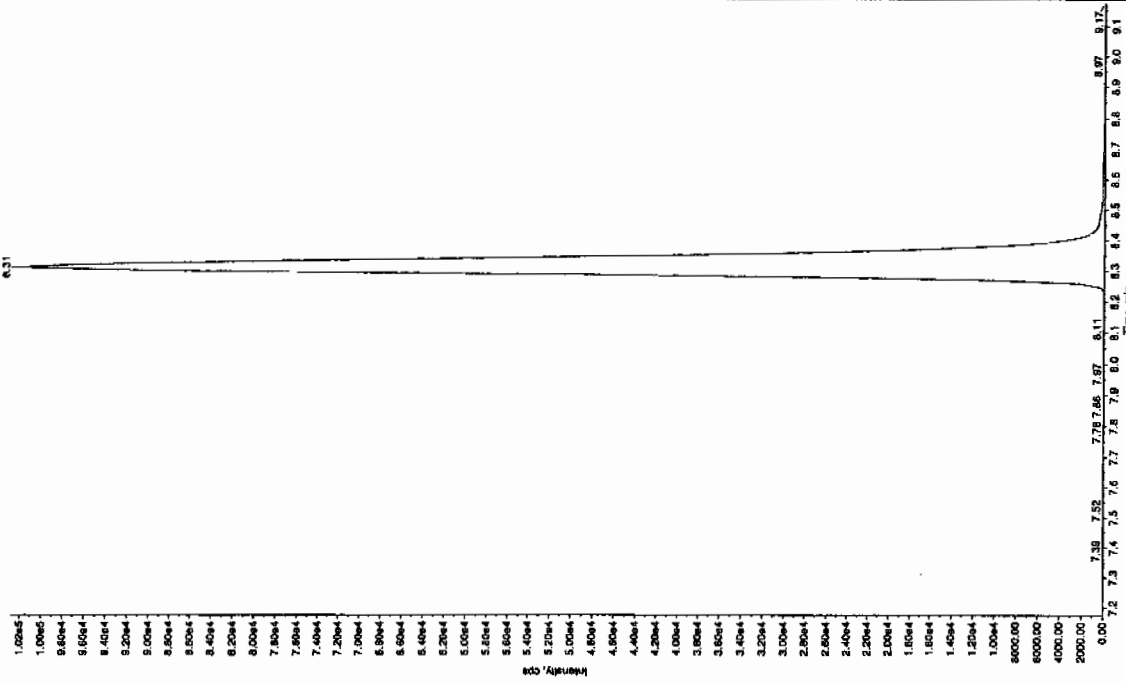
Sample Name: "247897020" Sample ID: "9570021ER" File: "EXS0020090.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX632125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 2:33:43 PM
 Modified: No



Sample Name: "247897020" Sample ID: "9570021ER" File: "EXS0020090.wif"
 Peak Name: "35-Chloroanthracene" Mass(es): "182.046.0 amu"
 Comment: "LCX632125" Annotation: "

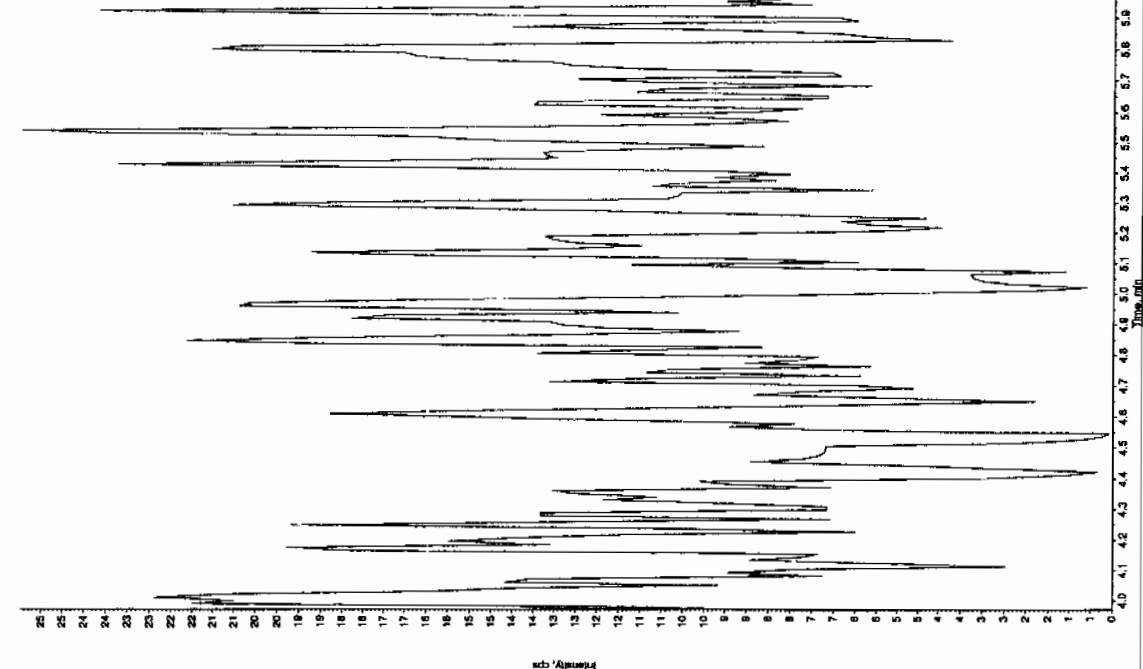
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 2:33:43 PM
 Modified: No



See 3/27/10

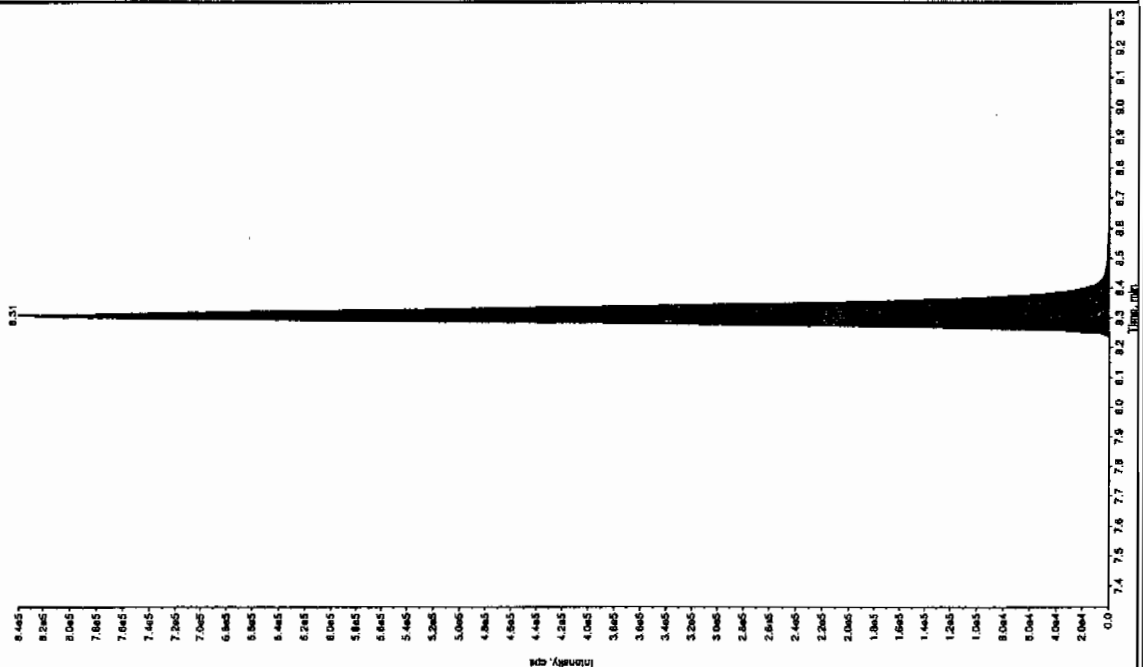
Sample Name: 2478970207 Sample ID: 357002151 File: EX50220300.wif
 Peak Name: 34 Unknowns Mass(es): 166.046.0 amu
 Comment: LCX832125 Annotation: ..

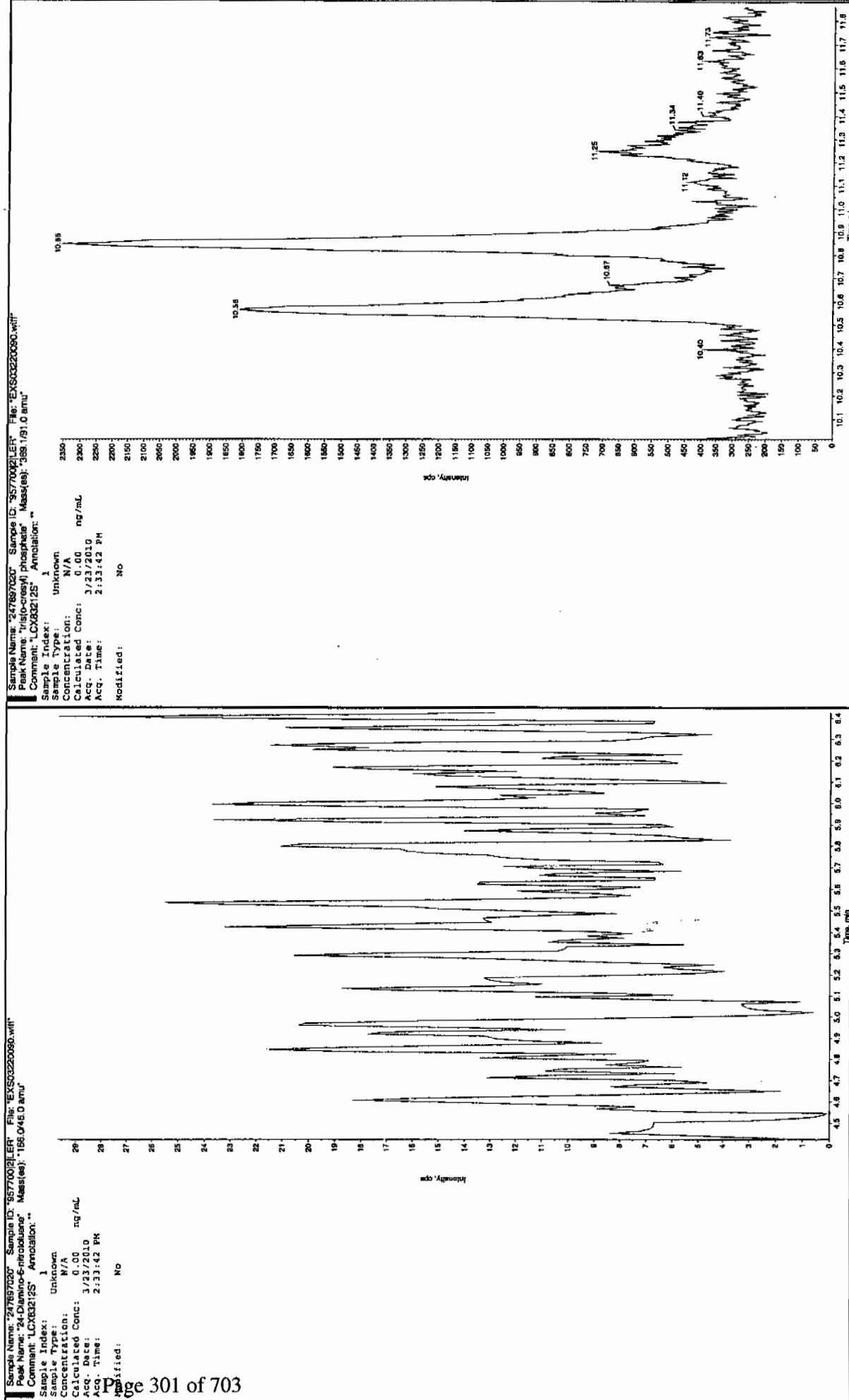
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 2:33:42 PM
 Acq. Time: 2:33:42 PM
 Modified: No



Sample Name: 2478970207 Sample ID: 357002151 File: EX50220300.wif
 Peak Name: 34 Unknowns Mass(es): 162.115.9 amu
 Comment: LCX832125 Annotation: ..

Sample Index: 1
 Sample Type: Unknown
 Concentration: 232.00 ng/mL
 Calculated Conc: 3/23/2010
 Acq. Date: 2:33:42 PM
 Acq. Time: 2:33:42 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Requested RT: 8.33 min
 Relative RT: No
 RT Type: Valley
 Retention Time: 8.31 min
 Area: 1.16e+006 counts
 Height: 840709.839 cps
 Start Time: 8.21 min
 End Time: 8.69 min





STANDARDS DATA

**SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels**

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MXN	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2009

Lab Code: GEL

Run Date: 08-APR-10.09-APR-10.22-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: \$321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Calibration Level:		1	2	3	4	5	6	Ave RF	RSD	Q
Parname	Data File:	EXP0408003a	EXP0408004a	EXP0408005a	EXP0408006a	EXP0408007a	EXP0408008a			
1,3,5-Trinitrobenzene		4.687	4.464	3.962	4.008	4.099	4.121	4.224	6.807	
1,3-Dinitrobenzene-04		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: 10-2009

Lab Code: GEL

Run Date: 08-APR-10.09-APR-10.22-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)

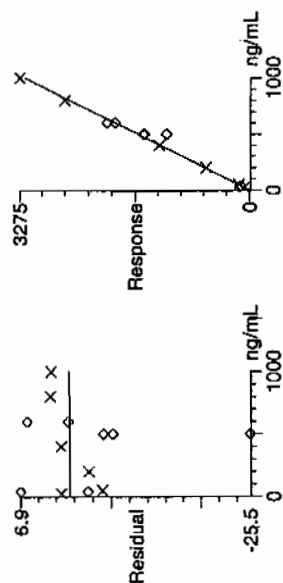
* Values outside of QC Limit

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

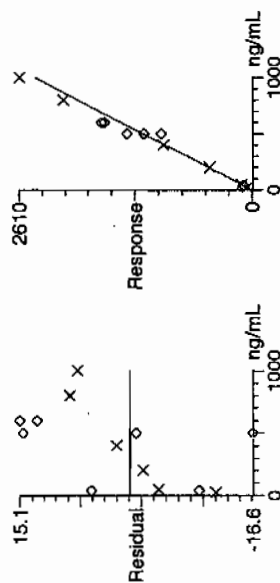
Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

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



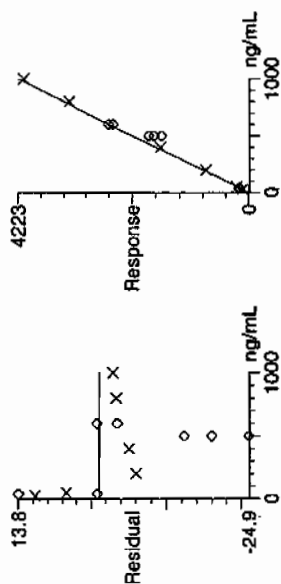
Compound name: RDX
Response Factor: 2.43687
RRF SD: 0.179446, % Relative SD: 7.36382
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



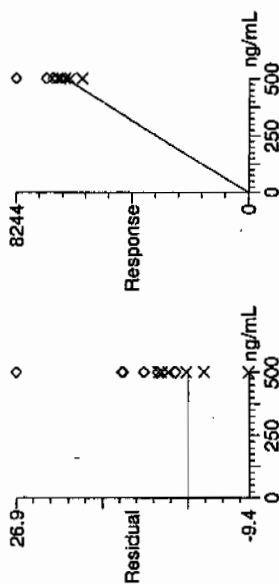
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

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



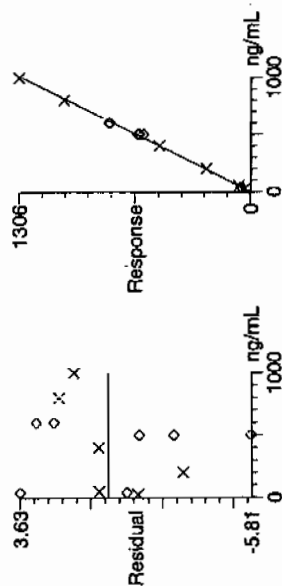
Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

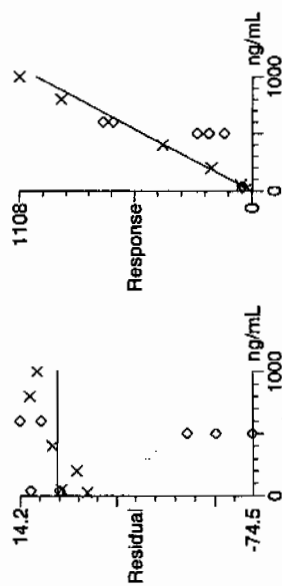
Printed: Fri Apr 09 10:56:07 2010, Page 3 of 9

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



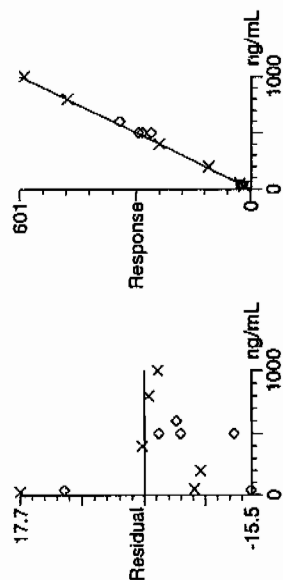
Compound name: Tetra
Response Factor: 1.02957
RRF SD: 0.0870508, % Relative SD: 8.45507
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



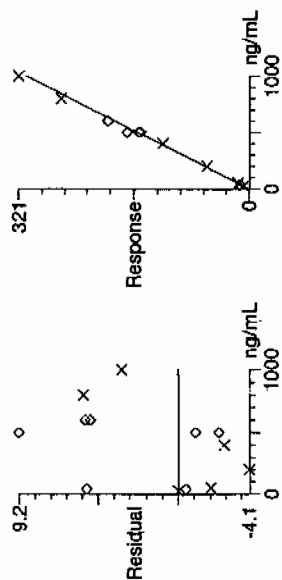
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

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



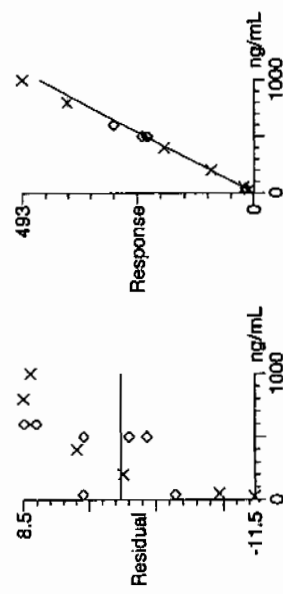
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.311292
RRF SD: 0.0114211, % Relative SD: 3.66892
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



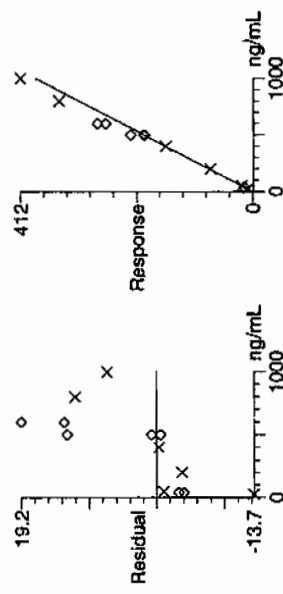
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp\PRO1040810expA.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



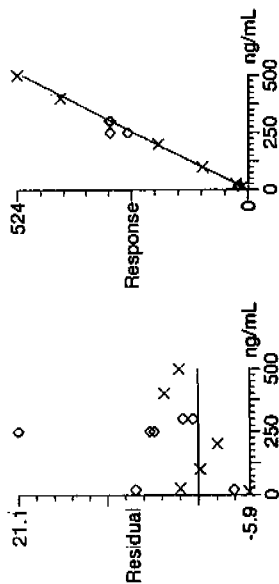
Compound name: 246-Trinitrotoluene
 Response Factor: 0.384794
 RRF SD: 0.038323, % Relative SD: 8.79231
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



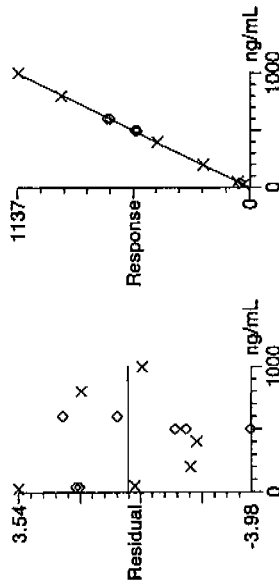
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\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



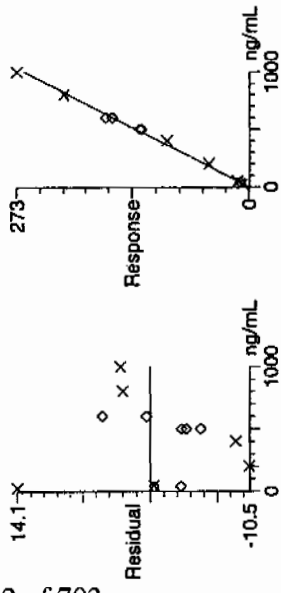
Compound name: 26-dinitrotoluene
 Response Factor: 1.13734
 RRF SD: 0.0251449, % Relative SD: 2.21085
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



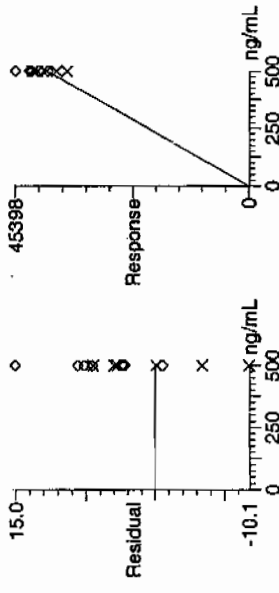
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

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

Compound name: 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

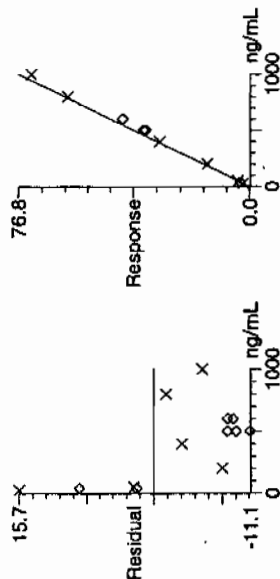


Compound name: 26-dinitrotoluene-d3
 Response Factor: 78.9572
 RRF SD: 5.12457, % Relative SD: 6.49031
 Response type: External Std, Area
 Curve type: RF

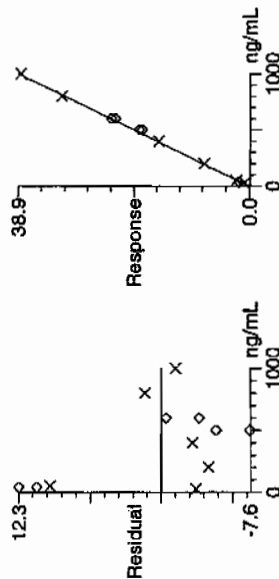


Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

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



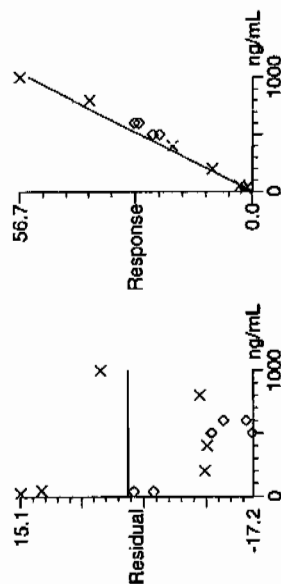
Compound name: 4-Nitrotoluene
Response Factor: 0.0388638
RRF SD: 0.00197819, % Relative SD: 5.09006
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



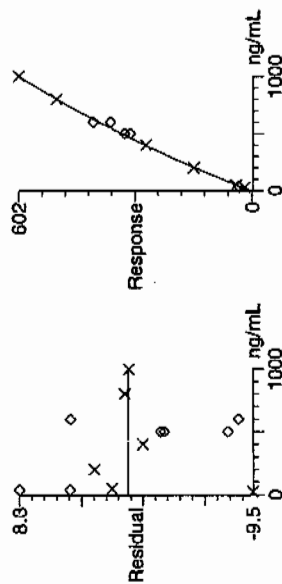
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

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): 10-2009

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

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408010a

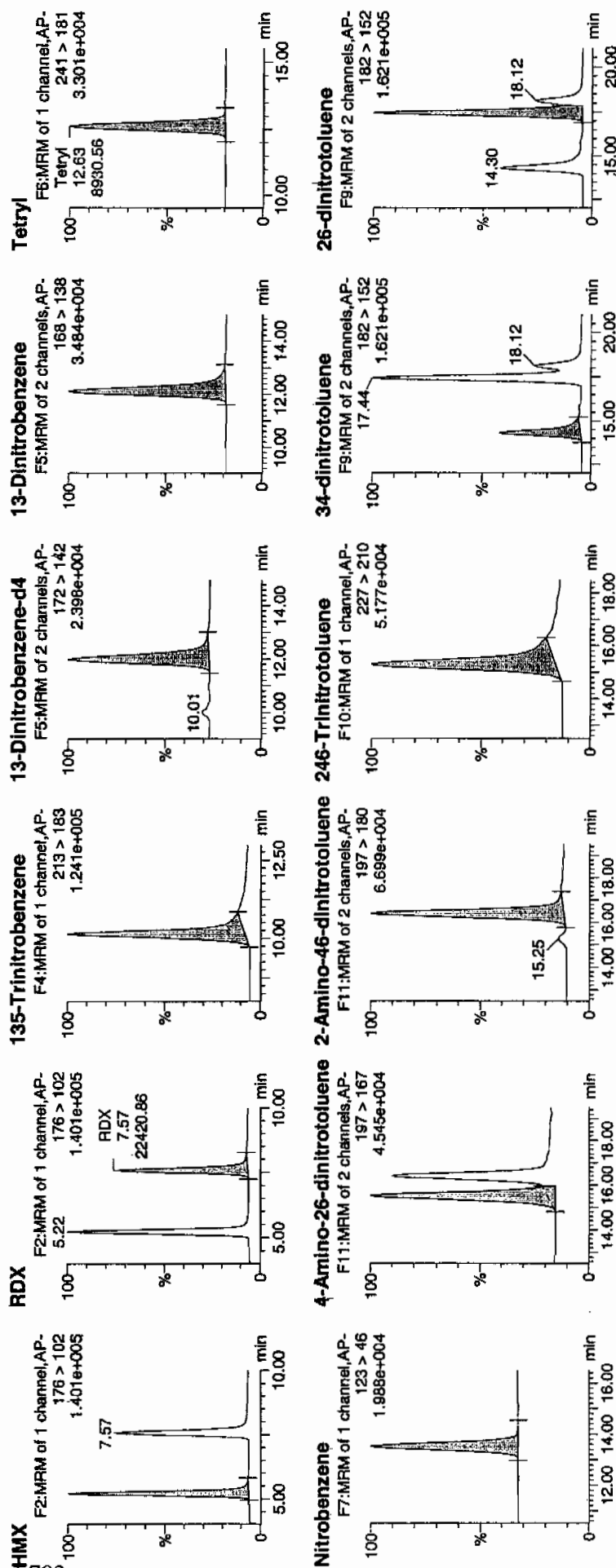
Date: 09-Apr-2010

Time: 01:58:08

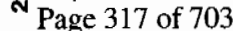
ID: WXX100408-07ICV

Vial: 1:1,B

4/9/10



4/9/10

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

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

mtf
4/10/10

Total 1615.0

Average 100.9

4/10/10

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: 10-2009

Lab Code: GEL

Run Date: 08-APR-10 09-APR-10 22-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03220003.wiff	EXS03220004.wiff	EXS03220005.wiff	EXS03220007.wiff	EXS03220008.wiff	EXS03220009.wiff					
Parname:											
2,4-Diamino-6-nitrotoluene	55200	101000	275000	737000	1000000	1740000	-1900	1100	-1.14	.9998	
2,6-Diamino-4-nitrotoluene	85700	164000	428000	1170000	1480000	2740000	13100	1610	-1.26	.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

Page 1

Handwritten: 3/27/10

Handwritten: 4/11/03

032210ICAL

Iterate No

None

weighting

Quadratic

a0 -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

a0 -2.65e+004

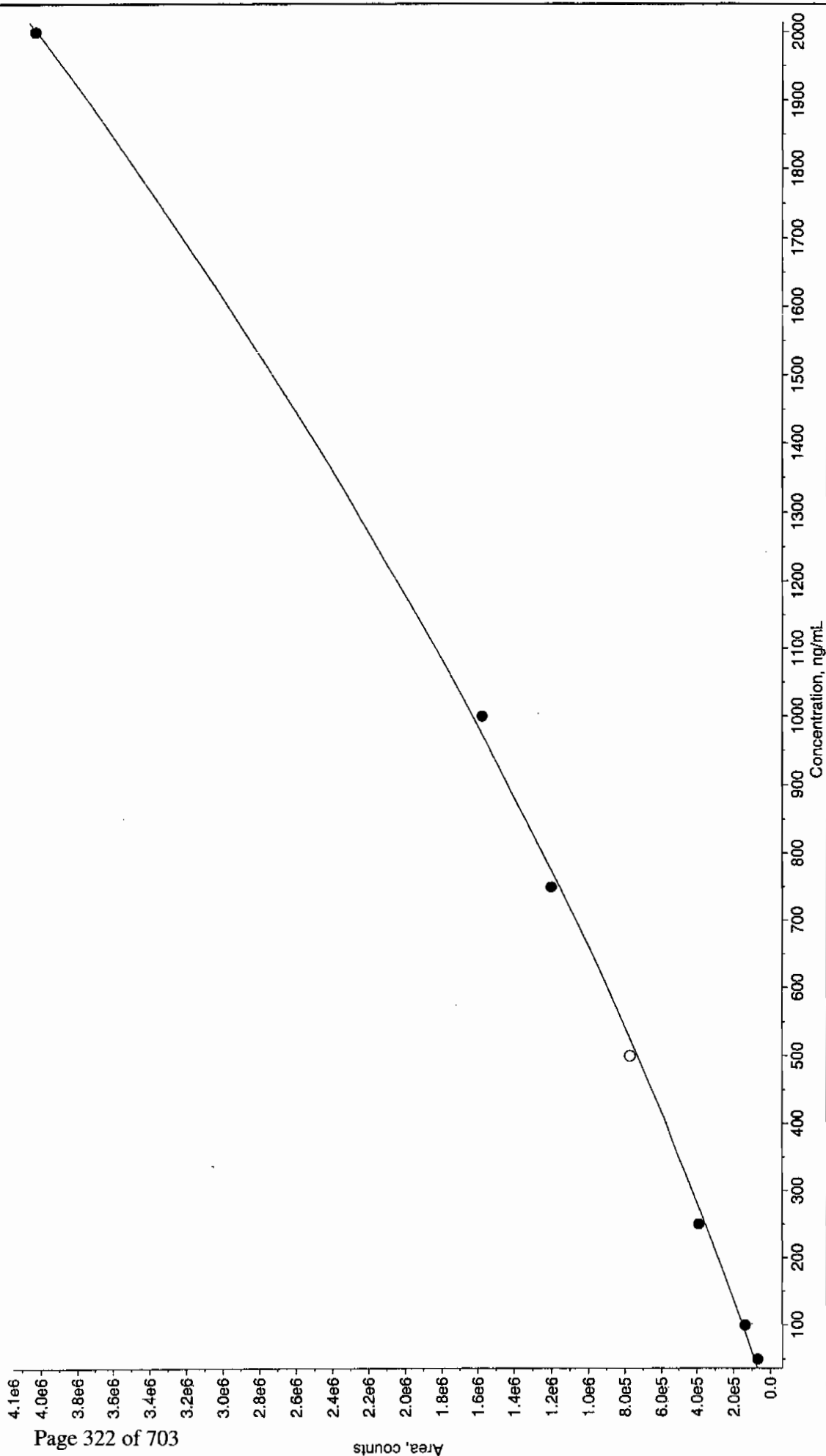
a1 1.3e+004

a2 -1.35

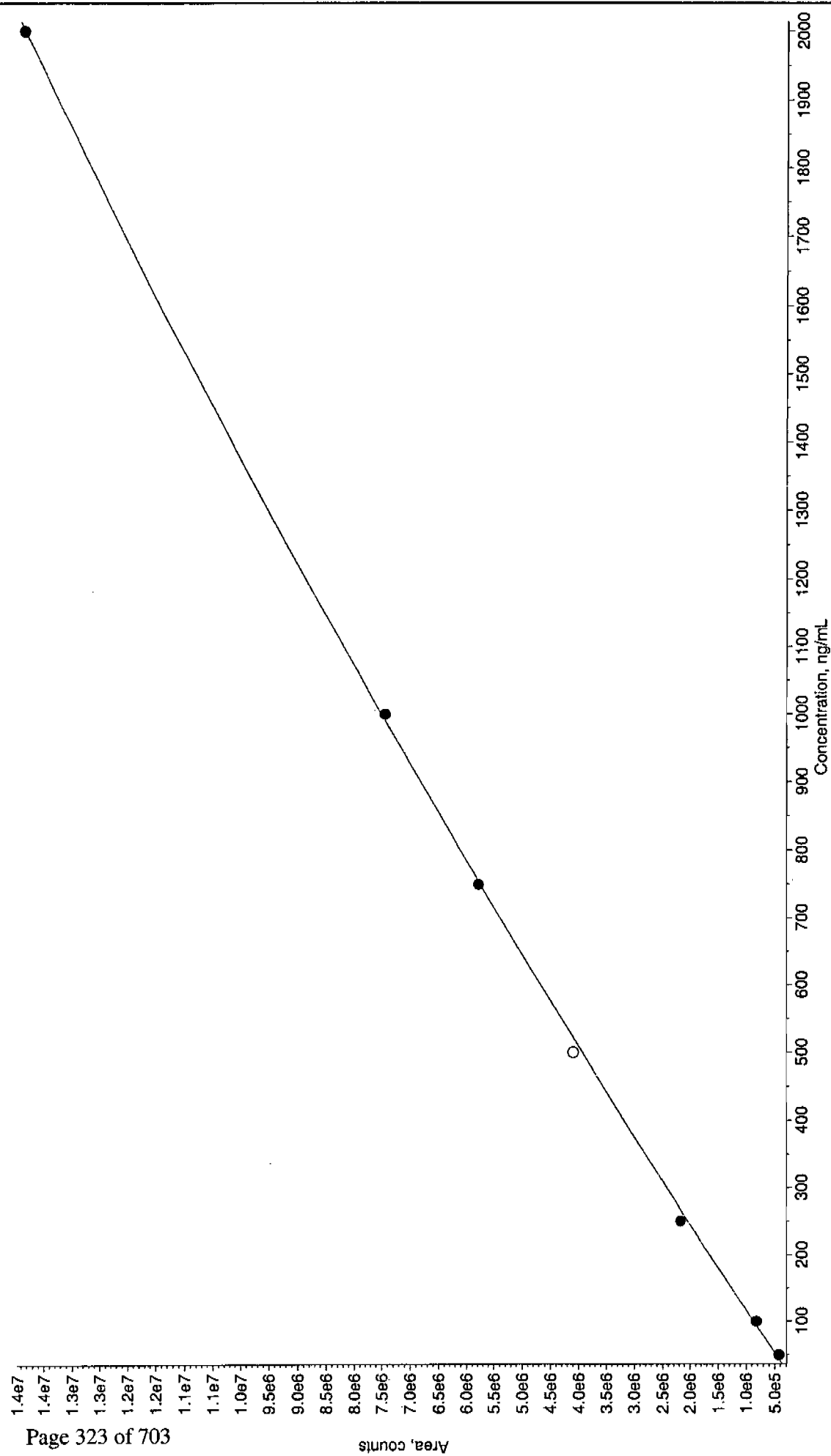
Correlation coefficient 1.0000

Use Area

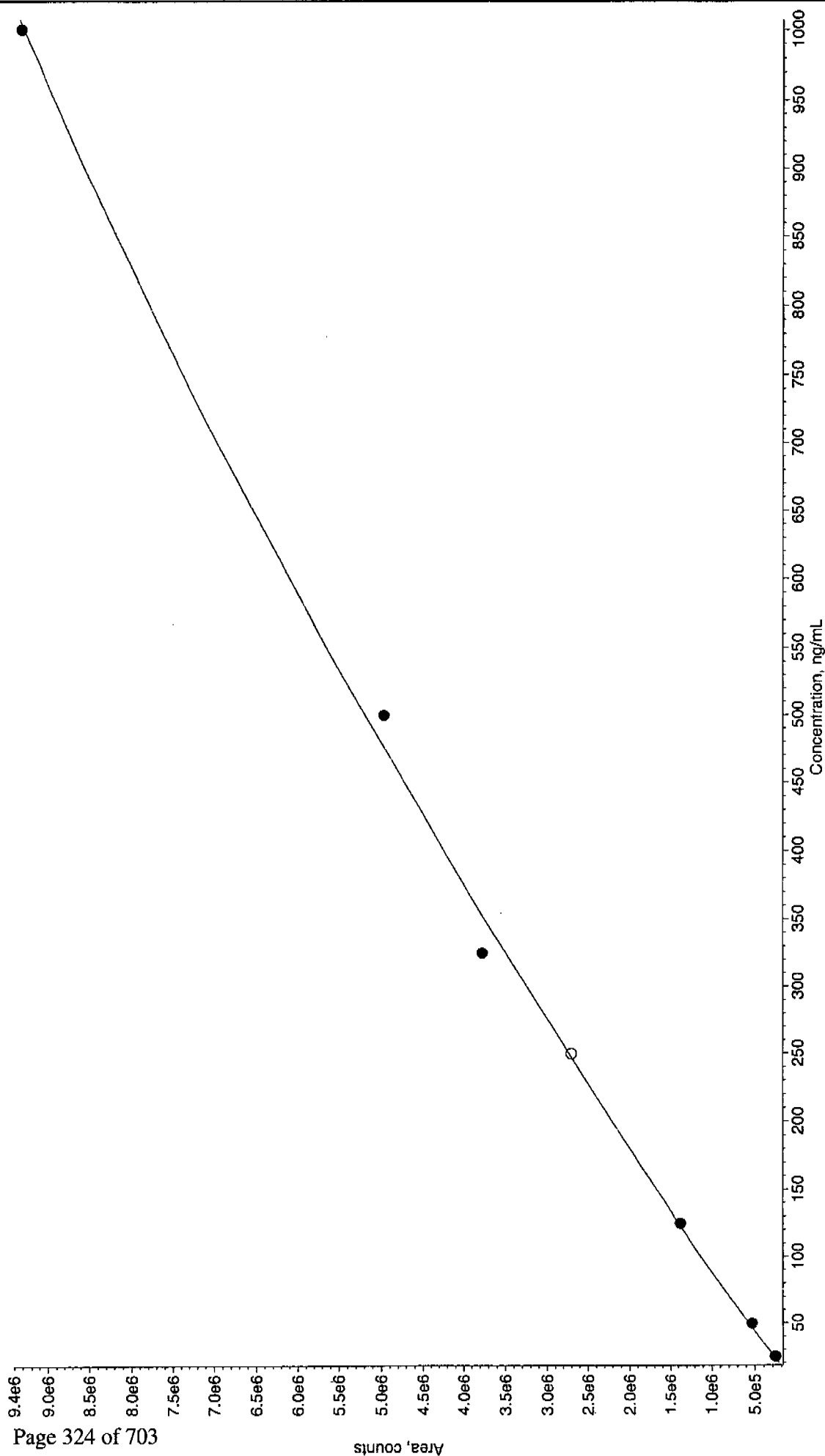
032210.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.391 x^2 + 1.21e+003 x + 2.63e+004$ ($r = 0.9997$)

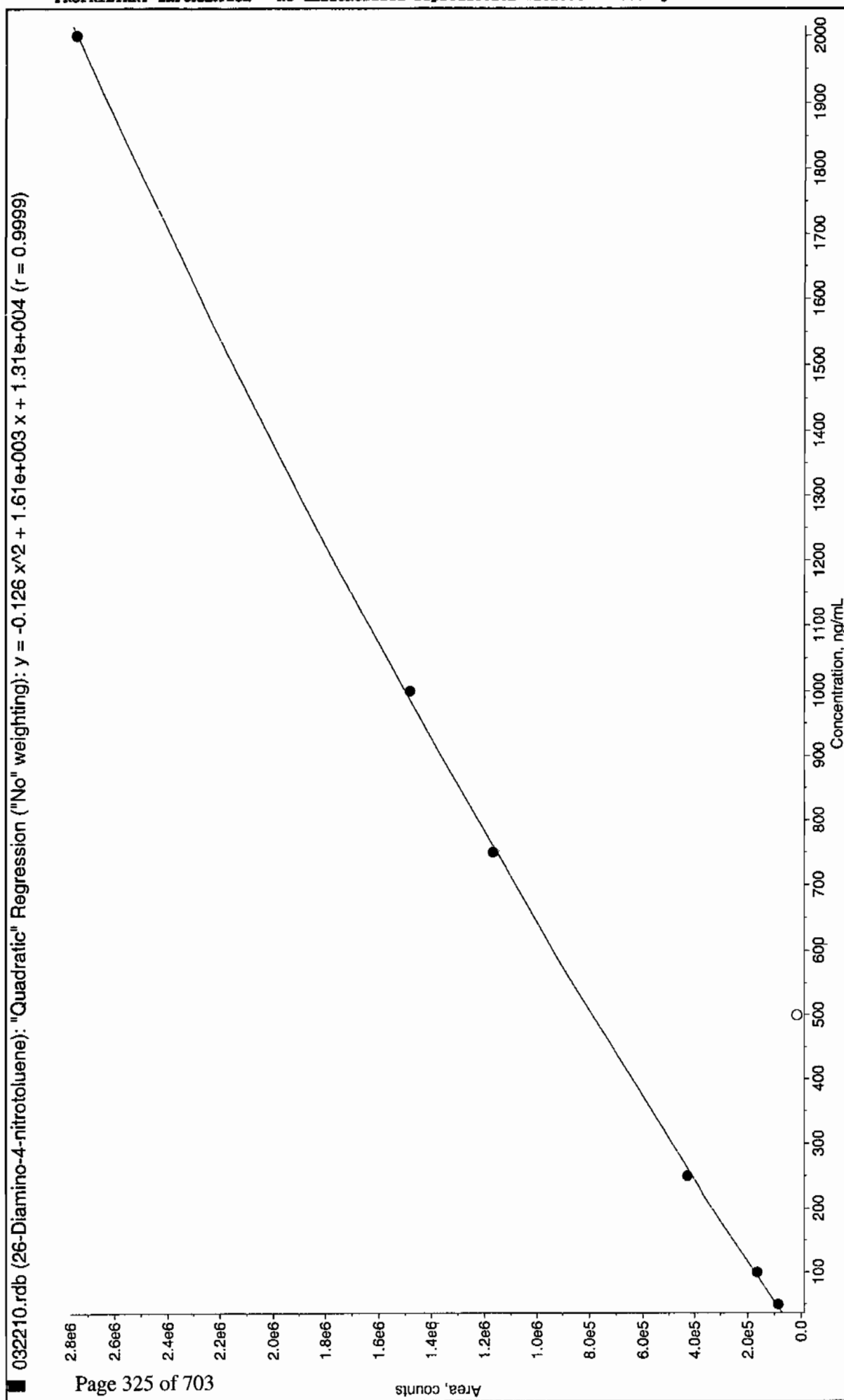


032210.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.547 x^2 + 7.96e+003 x + 7.9e+004$ ($r = 0.9999$)

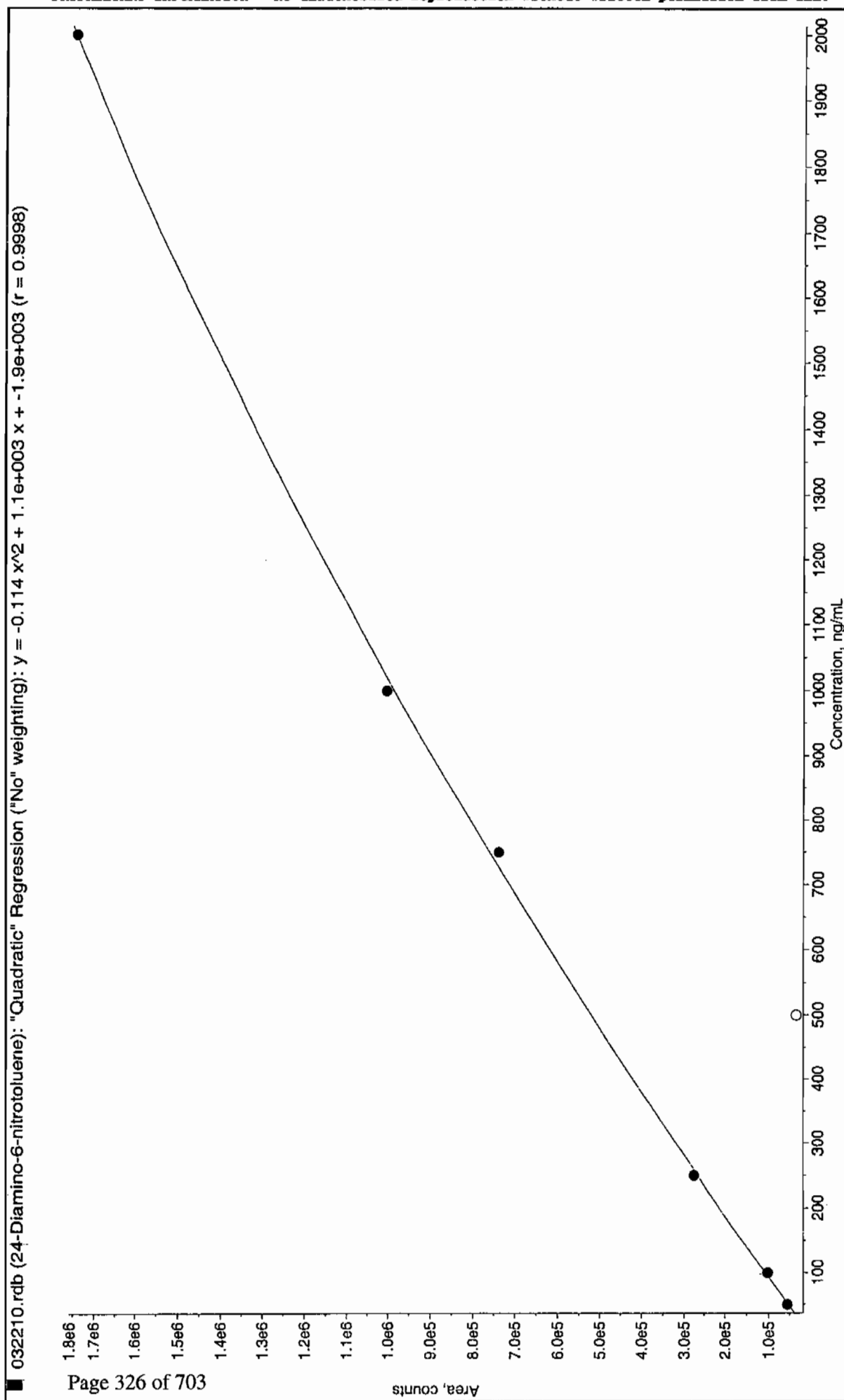


032210.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.17 x^2 + 1.15e+004 x + 361$ ($r = 0.9989$)

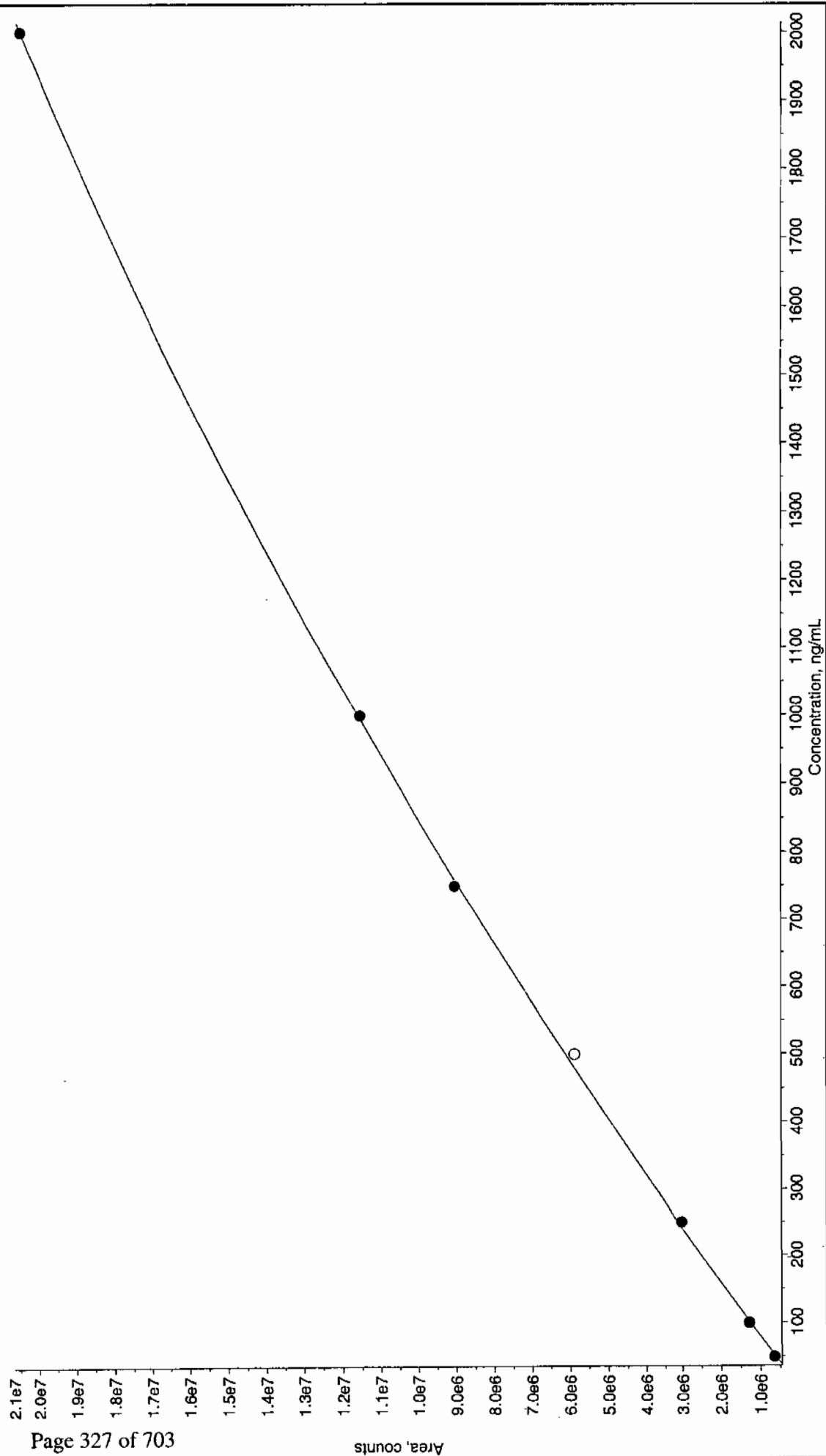




*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



032210.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -1.35 \times 10^{-4} x^2 + 1.3 \times 10^{-4} x + -2.65 \times 10^{-4}$ ($r = 1.0000$)



7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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

for 3/27/10

Sample Name: "WXX100322-28CV" Sample ID: "JLER" File: "EXS0220011.wif"

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

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC

Concentration: 500. ng/mL

Calculated Conc: 541. ng/mL

Acq. Date: 3/22/2010

Acq. Time: 5:50:03 PM

Modified: No

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

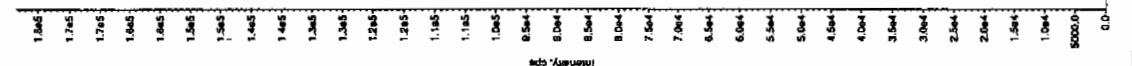
Retention Time: 6.93 min

Area: 7.96e+005 counts

Height: 178520.091 cps

Start Time: 6.84 min

End Time: 7.90 min



Sample Name: "WXX100322-28CV" Sample ID: "JLER" File: "EXS0220011.wif"

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

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC

Concentration: 500. ng/mL

Calculated Conc: 487. ng/mL

Acq. Date: 3/22/2010

Acq. Time: 5:50:03 PM

Modified: No

Algorithm: IntelliQuan - IOA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.17 min

Use Relative RT: No

Int. Type: Valley

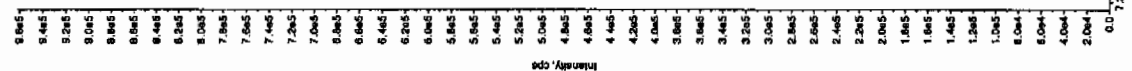
Retention Time: 8.17 min

Area: 3.83e+006 counts

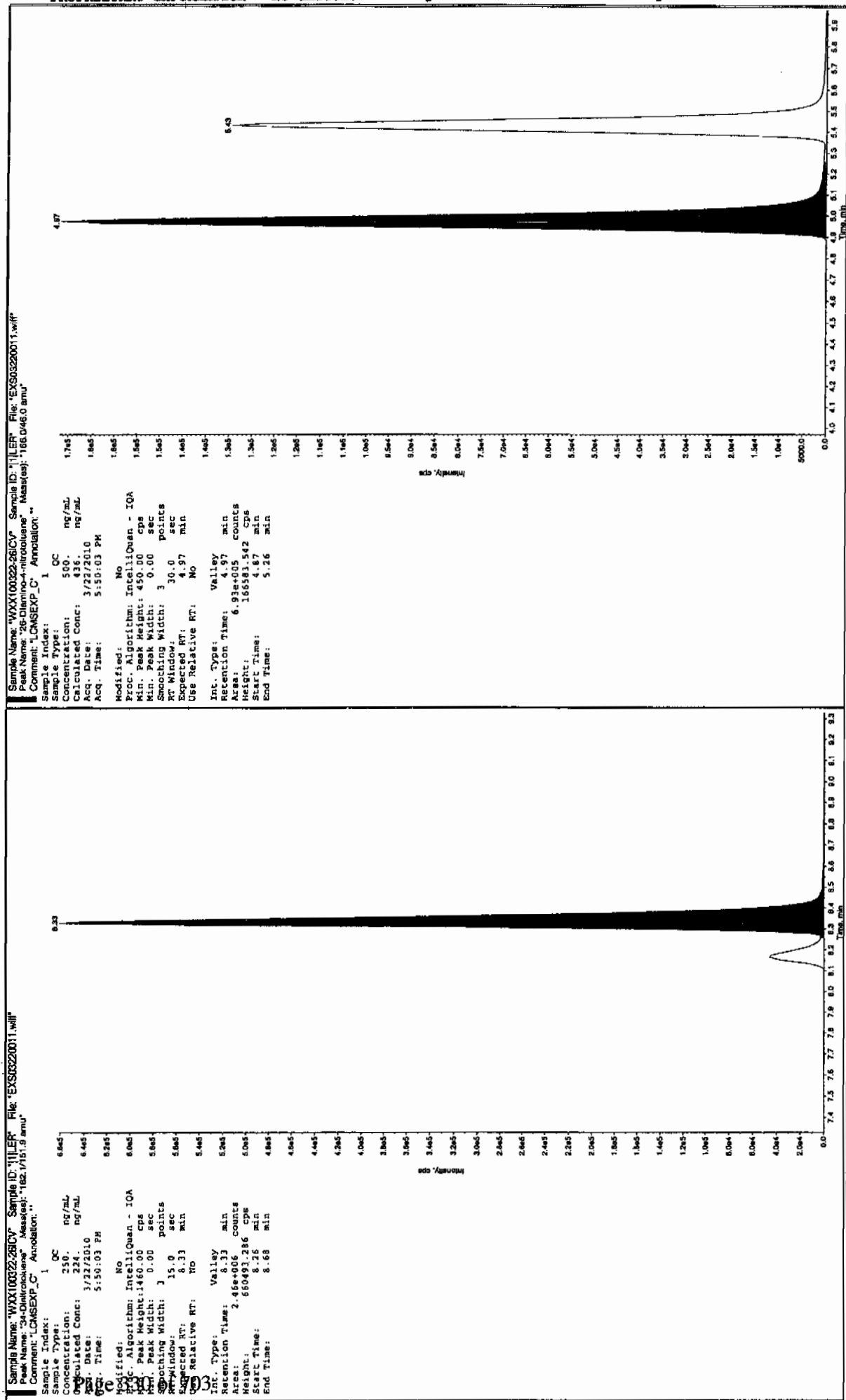
Height: 961258.118 cps

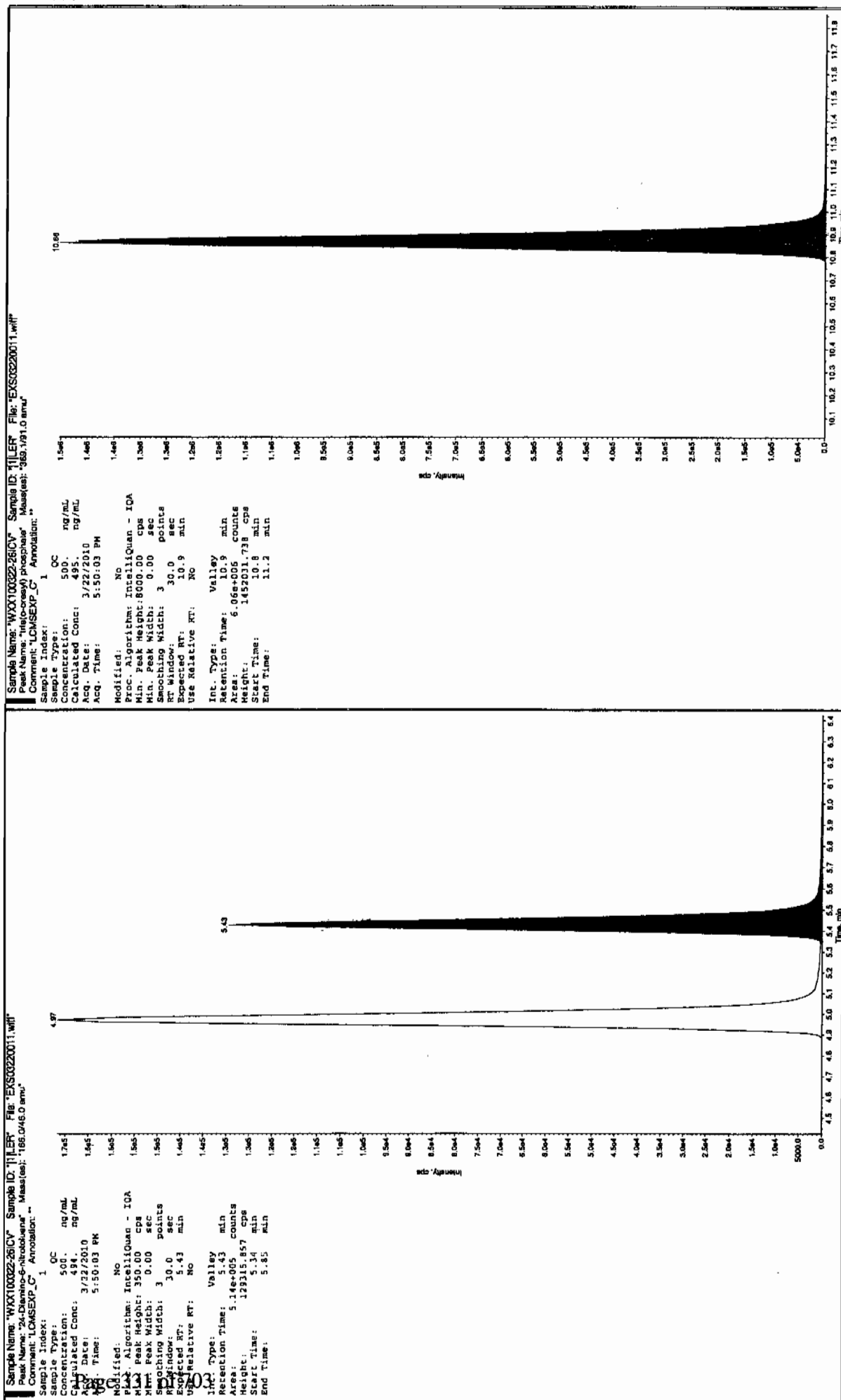
Start Time: 8.08 min

End Time: 8.29 min



for 3/29/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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

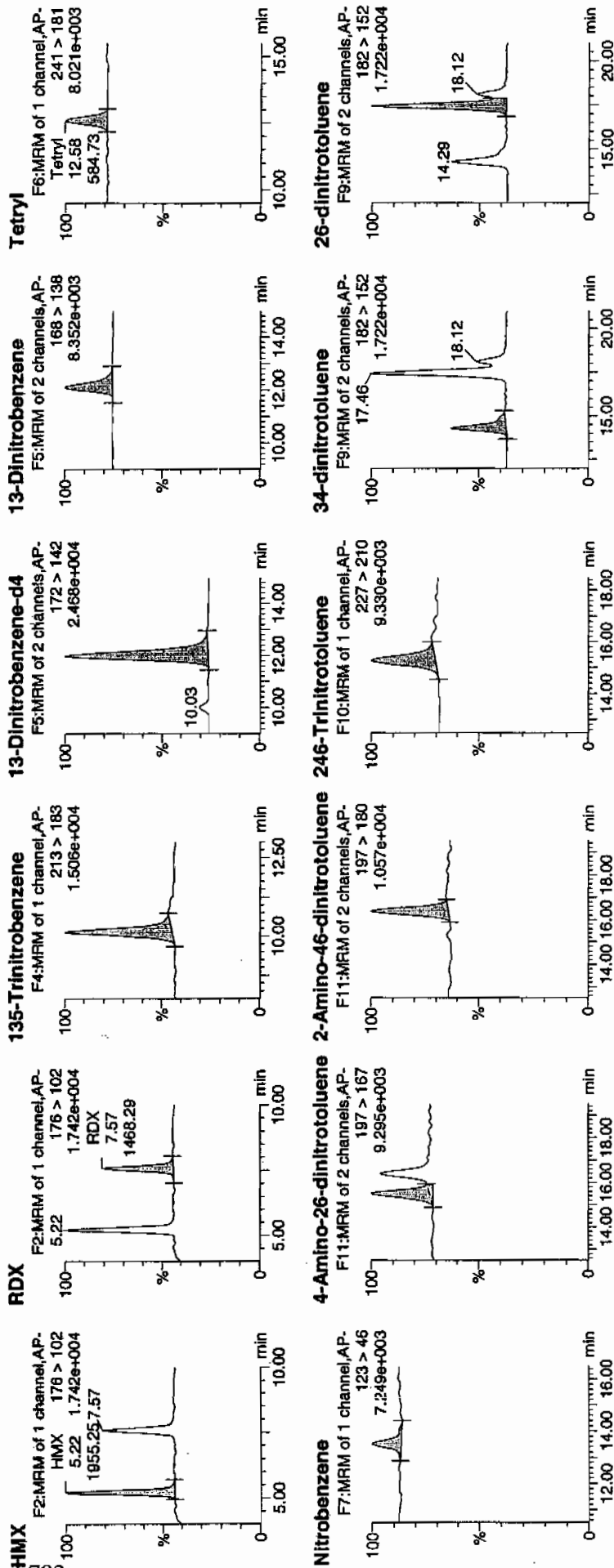
Date: 09-Apr-2010

Time: 02:57:06

ID: WXX100408-08CRI

Vial: 1:1,C

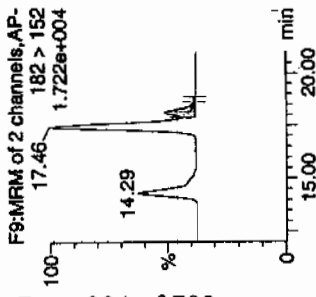
WXX
4/10/10



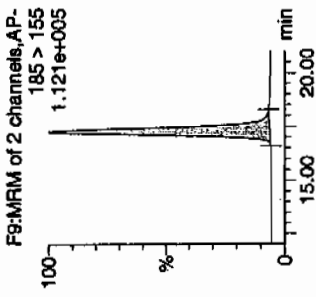
WXX
4/10/10

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

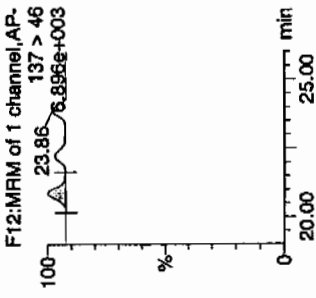
24-dinitrotoluene



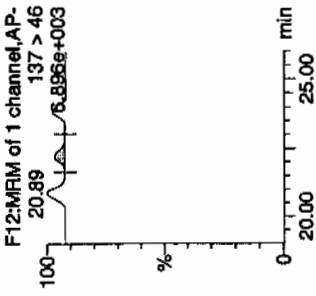
26-dinitrotoluene-d3



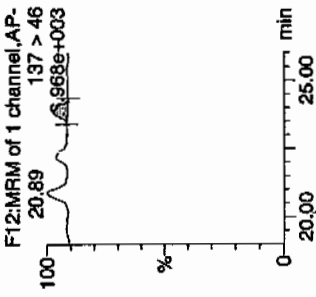
2-Nitrotoluene



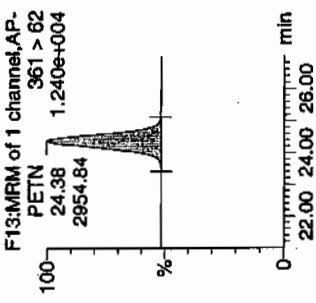
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	HT	Area	SArea	Abn Resp	Response	Flags	Mod Date	Mod Time	Mod	Sec	%Dev	SSN
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	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	09-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	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
4/9/10*

Total 1648.3

Average 103.0

done 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): 10-2009

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
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	
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	

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

Analyst: Michael A. Penny

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

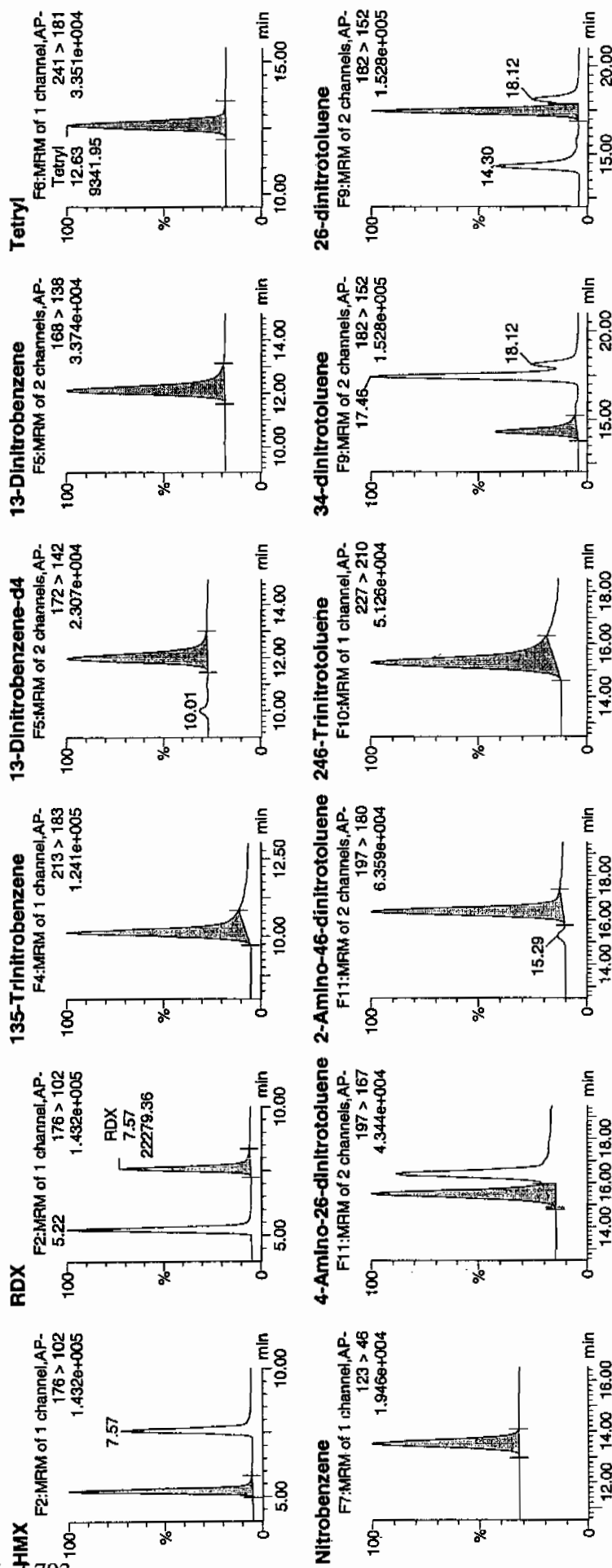
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Date: 09-Apr-2010

Time: 08:21:23

ID: WXX100408-07CCV

Aviat: 1:1,B



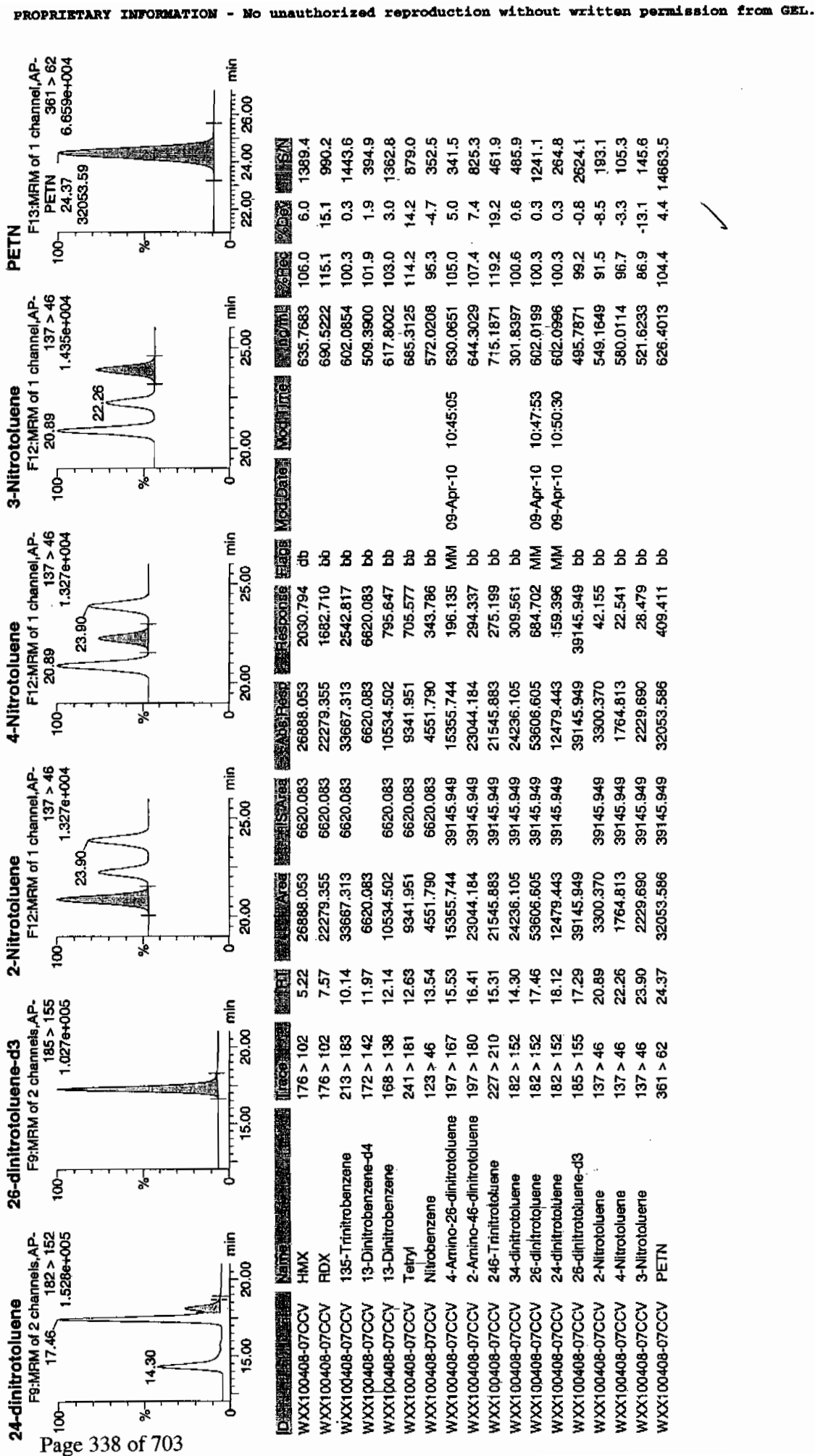
01/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 46 of 51

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

Handwritten: 115.1
91.5/10

Total 1646.2

Average 102.9

Handwritten: 102.9 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): 10-2009

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

Printed: Fri Apr 09 10:56:07 2010, Page 49 of 51

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

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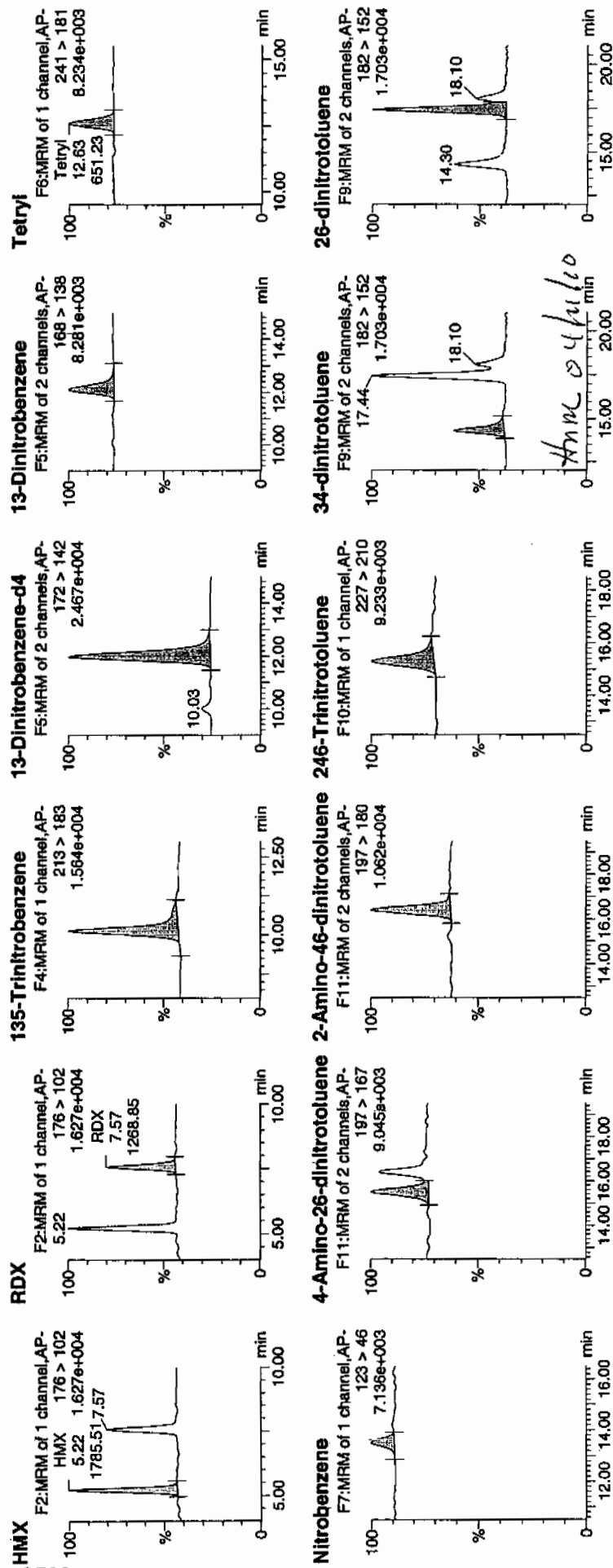
Date: 09-Apr-2010

Time: 09:20:28

ID: WXX100408-08CRI

Vial: 1:1,C

*WXX
ul/dip*

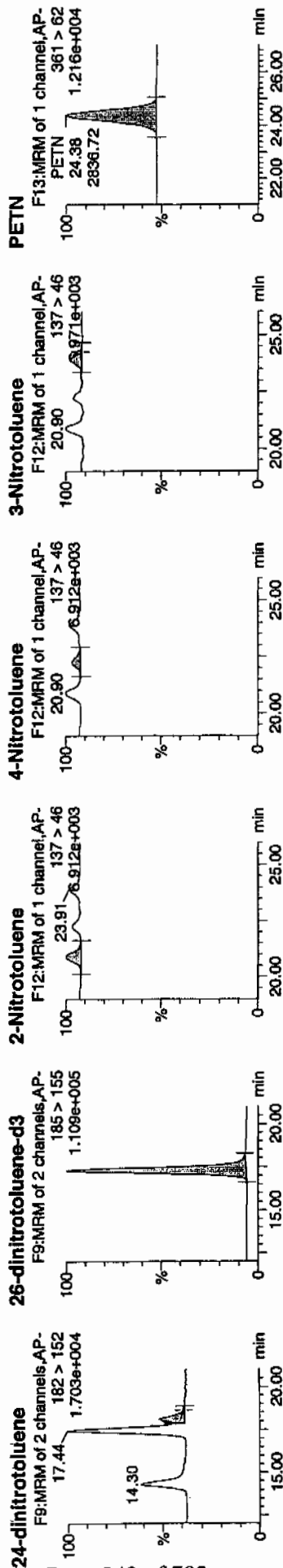


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 50 of 51

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



ID	Name	Trace	RT	Area	IS Area	AutoHess	Response	Flags	Mod Date	Mod Time	Conc	SN
WXX100408-08CRI	HMZ	176 > 102	5.22	1785.509	7172.133	1785.509	124.475	bb	38.9688	97.4	-2.6	182.8
WXX100408-08CRI	ROX	176 > 102	7.57	1268.851	7172.133	1268.851	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	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	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-Trinitrofluorene	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	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	39.8393	99.6	-0.4	46.6
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.29	42169.504	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	8.8	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	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): 10-2009

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

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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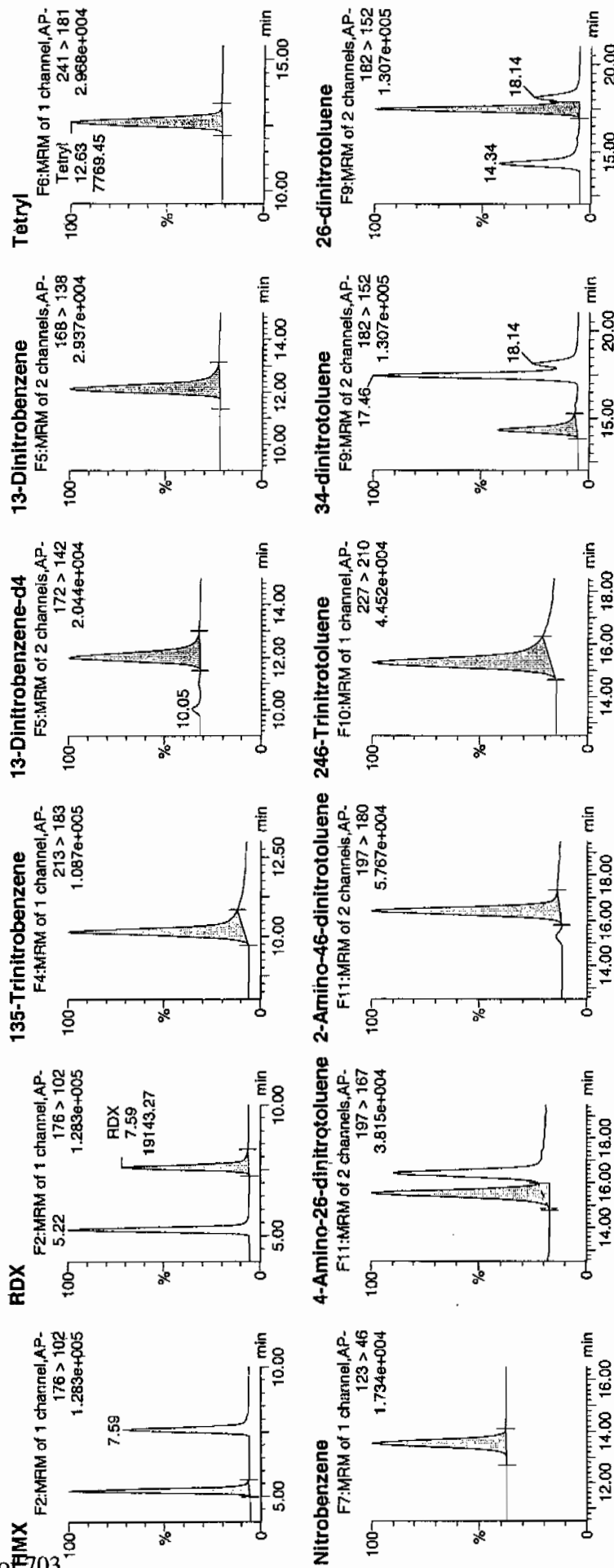
Date: 09-Apr-2010

Time: 14:44:48

ID: WXX100408-07CCV

Vial: 1:1,B

NOT
4/10/10



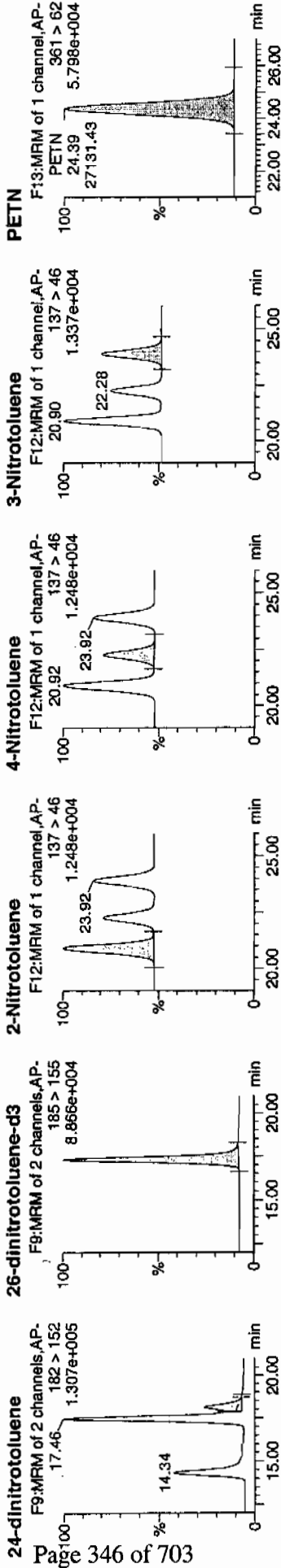
4/10/10

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



ID	Name	Trace	RT	Area	IS-Area	Abst:Resp	Flags	Mod:Data	Mod:Time	Area	%Area	%Dev	ISN
WXX100408-07CCV	HMV	176 > 102	5.22	23424.582	5486.660	23424.582	bb			668.2927	111.4	11.4	955.9
WXX100408-07CCV	RDX	176 > 102	7.59	19143.270	5486.660	19143.270	bb			715.8904	119.3	19.3	670.4
WXX100408-07CCV	135-Trinitrobenzene	213 > 183	10.14	28503.471	5486.660	28503.471	bb			615.0391	102.5	2.5	608.2
WXX100408-07CCV	13-Dinitrobenzene-d4	172 > 142	12.00	5486.660		5486.660	bb			422.1774	84.4	-15.6	856.5
WXX100408-07CCV	13-Dinitrobenzene	168 > 138	12.14	8539.355	5486.660	8539.355	bb			604.2470	100.7	0.7	640.0
WXX100408-07CCV	Tetryl	241 > 181	12.63	7769.454	5486.660	7769.454	bb			687.6967	114.6	14.6	505.4
WXX100408-07CCV	Nitrobenzene	123 > 46	13.54	3726.606	5486.660	3726.606	bb			565.0651	94.2	-5.8	329.8
WXX100408-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.53	12863.338	32832.465	12863.338	MM	10-Apr-10	11:39:04	629.2910	104.9	4.9	336.0
WXX100408-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.41	20131.918	32832.465	20131.918	MM			671.1155	111.9	11.9	952.0
WXX100408-07CCV	246-Trinitrotoluene	227 > 210	15.31	17693.051	32832.465	17693.051	bb			700.2311	116.7	16.7	1173.6
WXX100408-07CCV	34-dinitrotoluene	182 > 152	14.34	20014.955	32832.465	20014.955	bb			297.2019	99.1	-0.9	440.5
WXX100408-07CCV	26-dinitrotoluene	182 > 152	17.46	44894.105	32832.465	44894.105	MM	10-Apr-10	11:35:00	601.1256	100.2	0.2	1130.5
WXX100408-07CCV	24-dinitrotoluene	182 > 152	18.14	10405.064	32832.465	10405.064	MM	10-Apr-10	11:34:31	598.5511	99.8	-0.2	239.4
WXX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.29	32832.465		32832.465	bb			415.8263	83.2	-16.8	3041.7
WXX100408-07CCV	2-Nitrotoluene	137 > 46	20.92	2723.384	32832.465	2723.384	bb			540.2967	90.0	-10.0	635.6
WXX100408-07CCV	4-Nitrotoluene	137 > 46	22.28	1467.669	32832.465	1467.669	bb			575.1078	95.9	-4.1	349.0
WXX100408-07CCV	3-Nitrotoluene	137 > 46	23.92	1872.924	32832.465	1872.924	bb			522.4154	87.1	-12.9	163.1
WXX100408-07CCV	PETN	361 > 62	24.39	27131.430	32832.465	27131.430	bb			633.0871	105.5	5.5	12891.7

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

Handwritten: 4/10/10

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): 10-2009

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

Printed: Sat Apr 10 11:42:30 2010, Page 25 of 99

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

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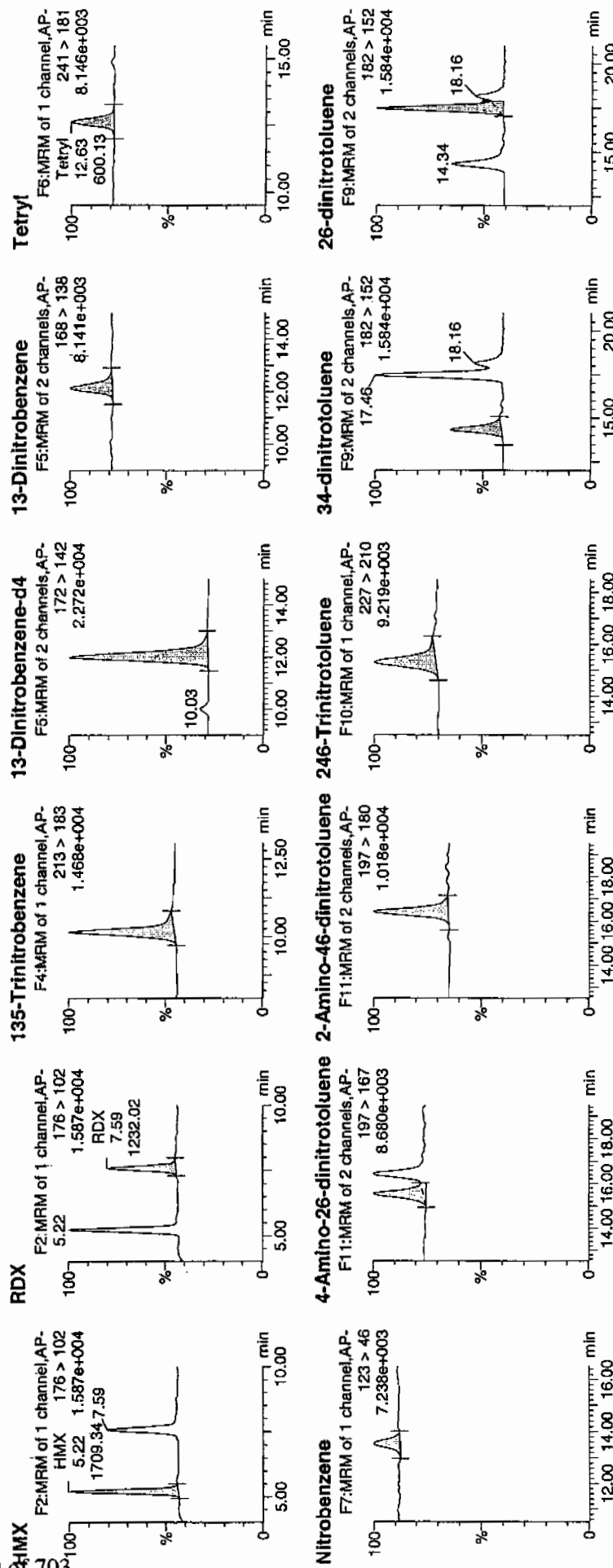
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Time: 15:43:52

ID: WXX100408-08CRI

Vial: 1:1,C

4/10/10



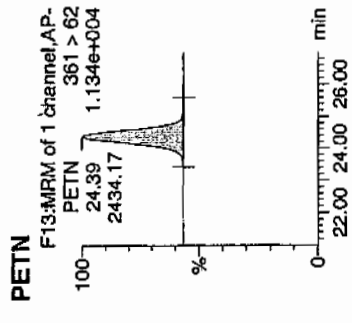
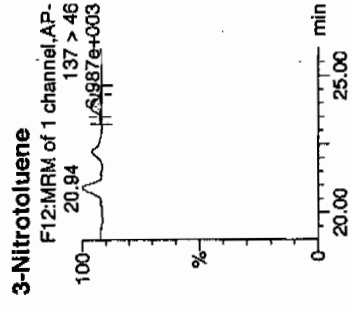
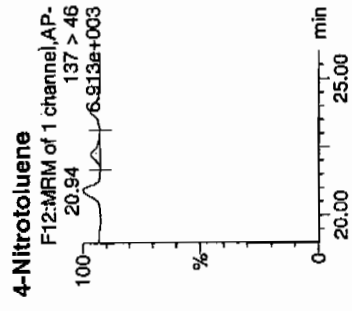
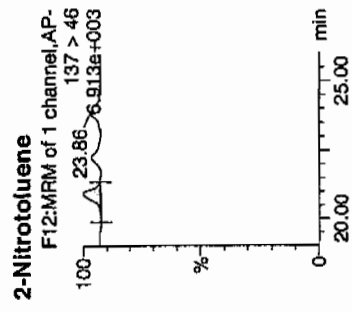
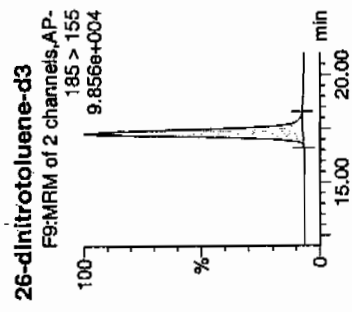
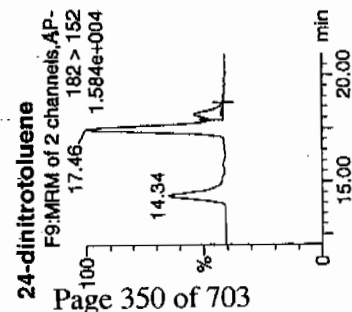
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 26 of 99

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	Norm	% Rec	% Dev	SN
WXX100408-08CRI	HMX	176 > 102	5.22	1709.343	6342.622	1709.343	134.751	bb	10-Apr-10	11:38:52	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			42.5870	106.5	6.5	213.1
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	6342.622		6342.622	6342.622	bb			488.0404	97.6	-2.4	546.0
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	20.993	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	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

done 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): 10-2009

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
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	
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	

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

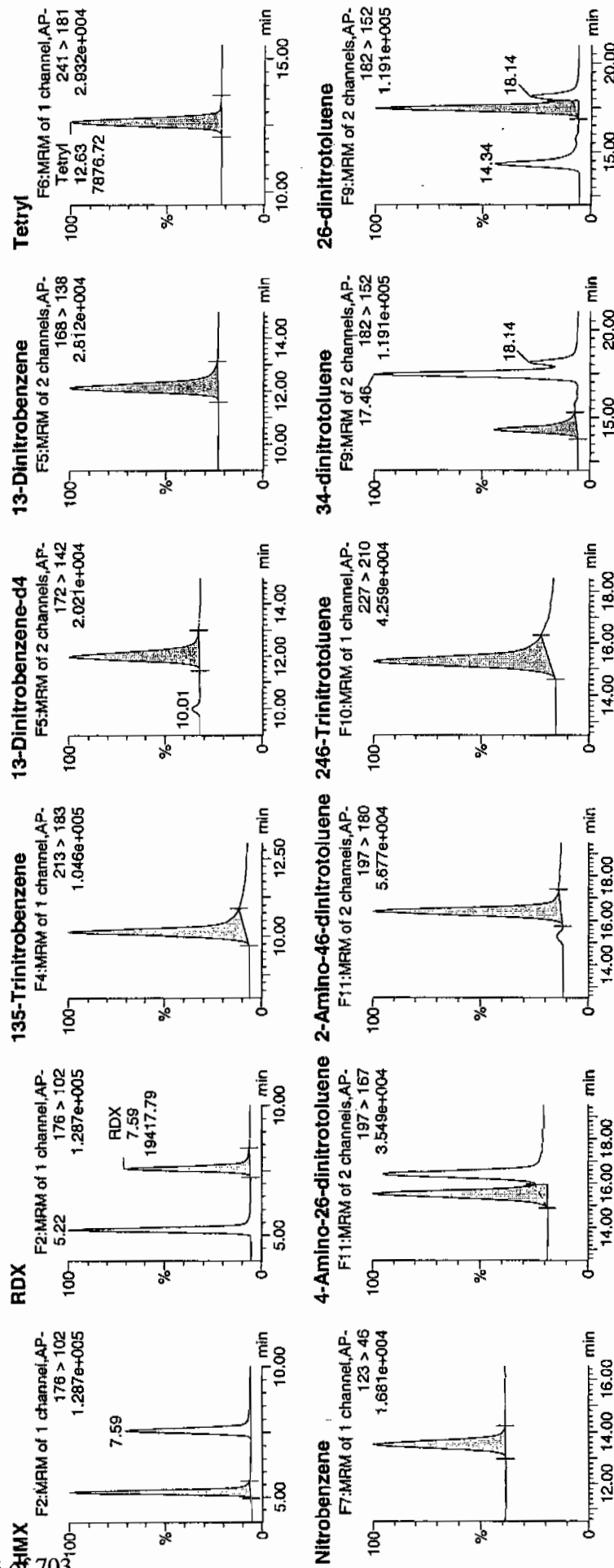
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Date: 09-Apr-2010

Time: 19:43:09

ID: WXX100408-07CCV

Vial: 1:1, B



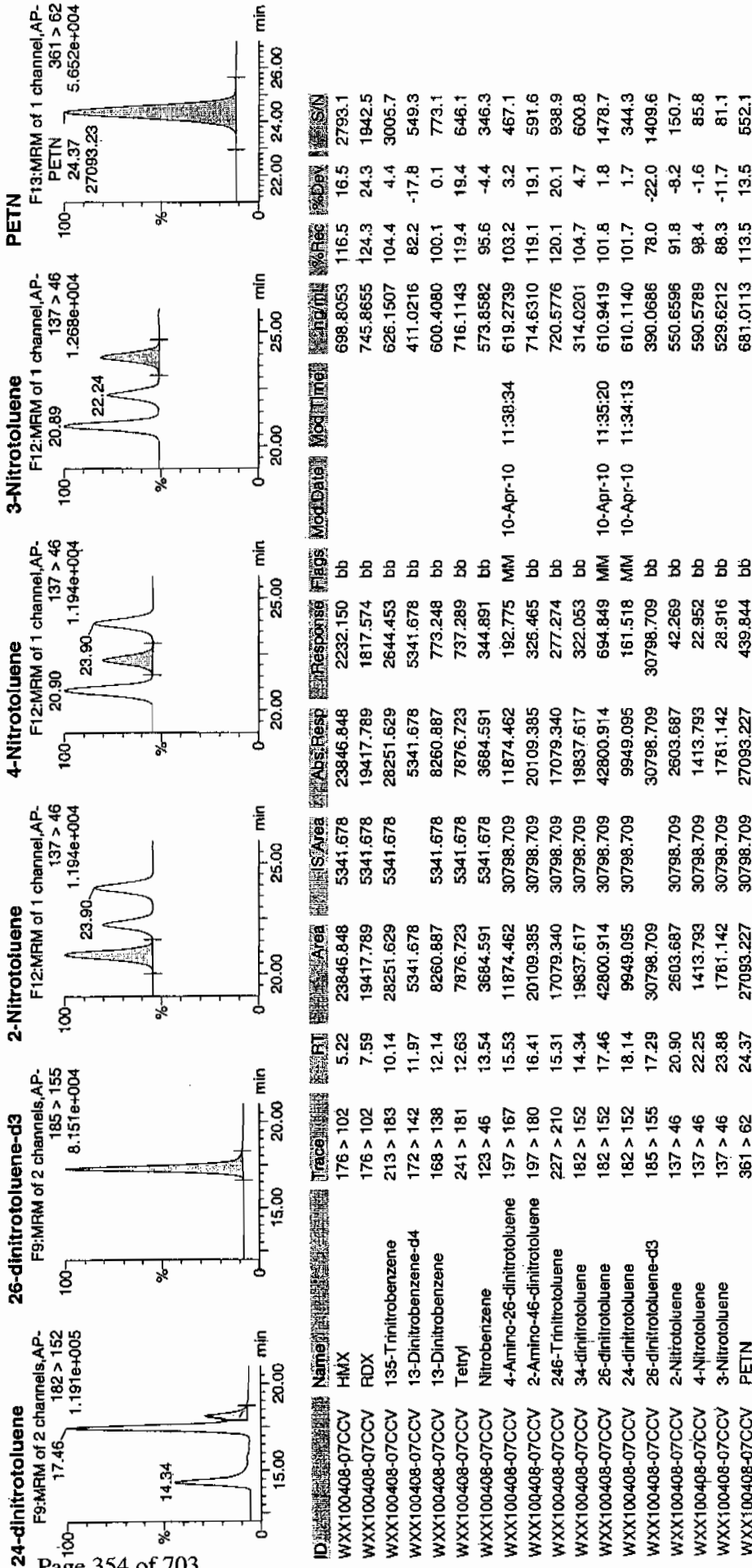
01/11/19

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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

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



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

*100%
4/10/10*

Total 1702.9

Average 106.4

Done 4/10/10

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): 10-2009

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

Printed: Sat Apr 10 11:42:30 2010, Page 45 of 99

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

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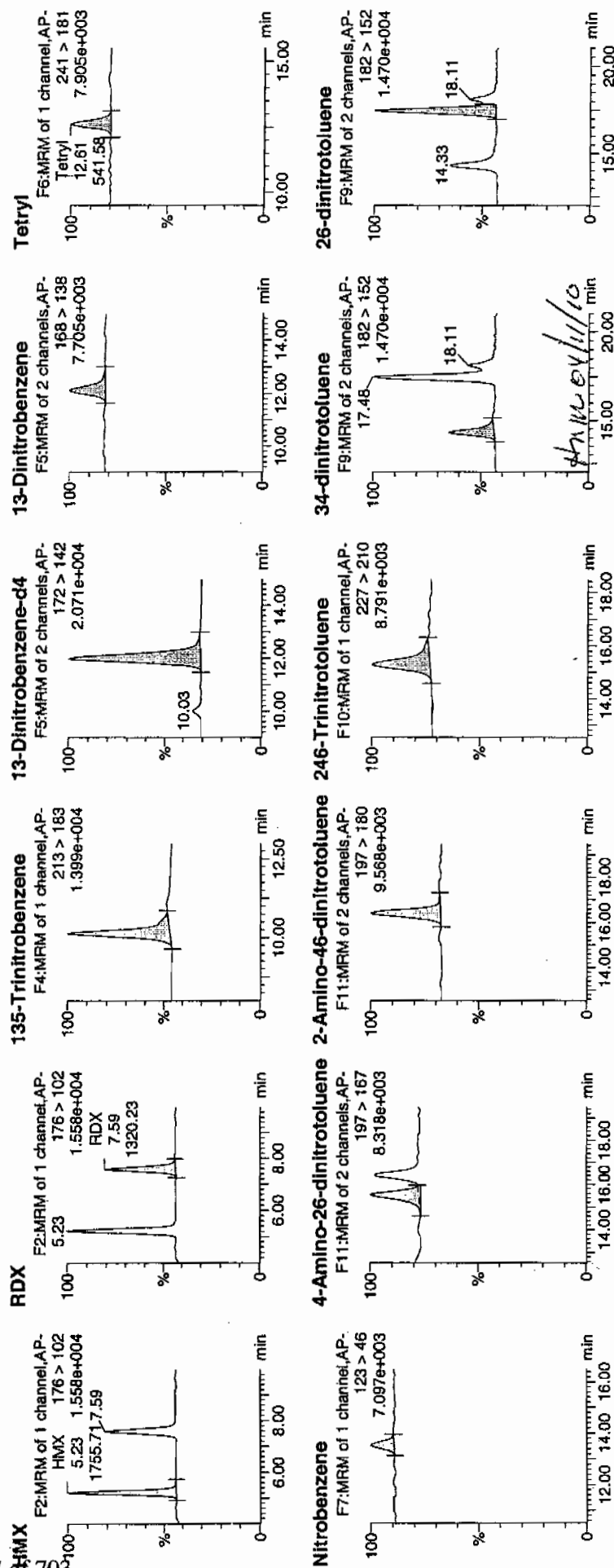
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Vial: 1:1,C

4/10/10



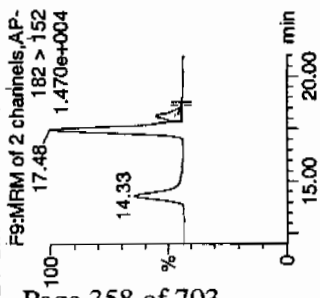
Quantity Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

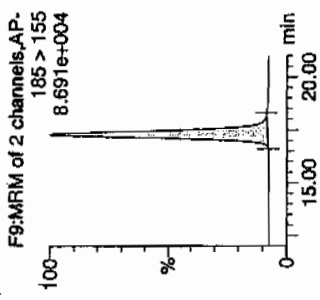
Printed: Sat Apr 10 11:42:30 2010, Page 46 of 99

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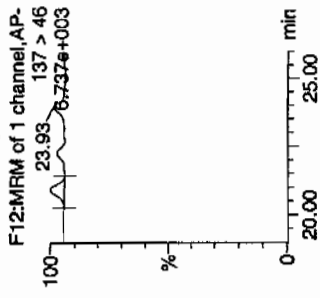
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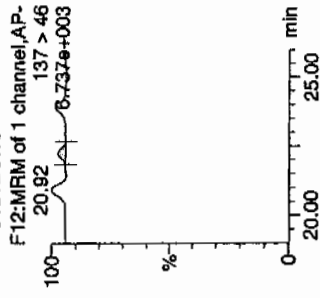
26-dinitrotoluene-d3



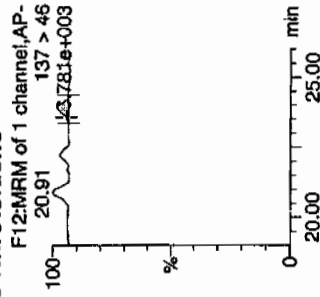
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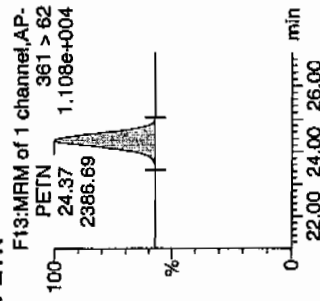
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS:Area	Abn:Resp	Flags	Mod:Time	Int:Time	%Rec	%Dev	SIN
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WXX100408-08CRI	RDX	176 > 102	7.59	1320.235	5528.944	1320.235	bb	48.9945	122.5	22.5	167.2	
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2186.401	5528.944	2186.401	bb	46.8167	117.0	17.0	134.1	
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	5528.944	5528.944	5528.944	bb	425.4310	85.1	-14.9	244.1	
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.13	543.243	5528.944	543.243	bb	38.1460	95.4	-4.6	40.7	
WXX100408-08CRI	Tetryl	241 > 181	12.61	541.575	5528.944	541.575	bb	47.5698	118.9	18.9	43.5	
WXX100408-08CRI	Nitrobenzene	123 > 46	13.53	247.982	5528.944	247.982	bb	37.3139	93.3	-6.7	21.6	
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.54	821.968	32671.566	821.968	MM	40.4098	101.0	1.0	26.3	
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.42	1245.053	32671.566	1245.053	bb	41.7094	104.3	4.3	75.5	
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.30	1151.209	32671.566	1151.209	bb	45.7853	114.5	14.5	99.7	
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.33	1332.043	32671.566	1332.043	bb	19.8769	99.4	-0.6	64.0	
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.48	3032.749	32671.566	3032.749	MM	40.8081	102.0	2.0	171.2	
WXX100408-08CRI	24-dinitrotoluene	182 > 152	18.11	678.479	32671.566	678.479	MM	39.2217	98.1	-1.9	34.6	
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.30	32671.566	32671.566	32671.566	bb	413.7885	82.8	-17.2	3953.5	
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.92	192.459	32671.566	192.459	bb	38.3703	95.9	-4.1	53.9	
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.24	92.891	32671.566	92.891	bb	36.5787	91.4	-8.6	30.6	
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.95	134.623	32671.566	134.623	MM	37.7354	94.3	-5.7	30.4	
WXX100408-08CRI	PETN	361 > 62	24.37	2386.693	32671.566	2386.693	bb	45.7979	114.5	14.5	598.9	

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

*not
4/6/10*

Total 1686.8

Average 105.4

done 04/09/10

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): 10-2009

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
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	
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	

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408059a

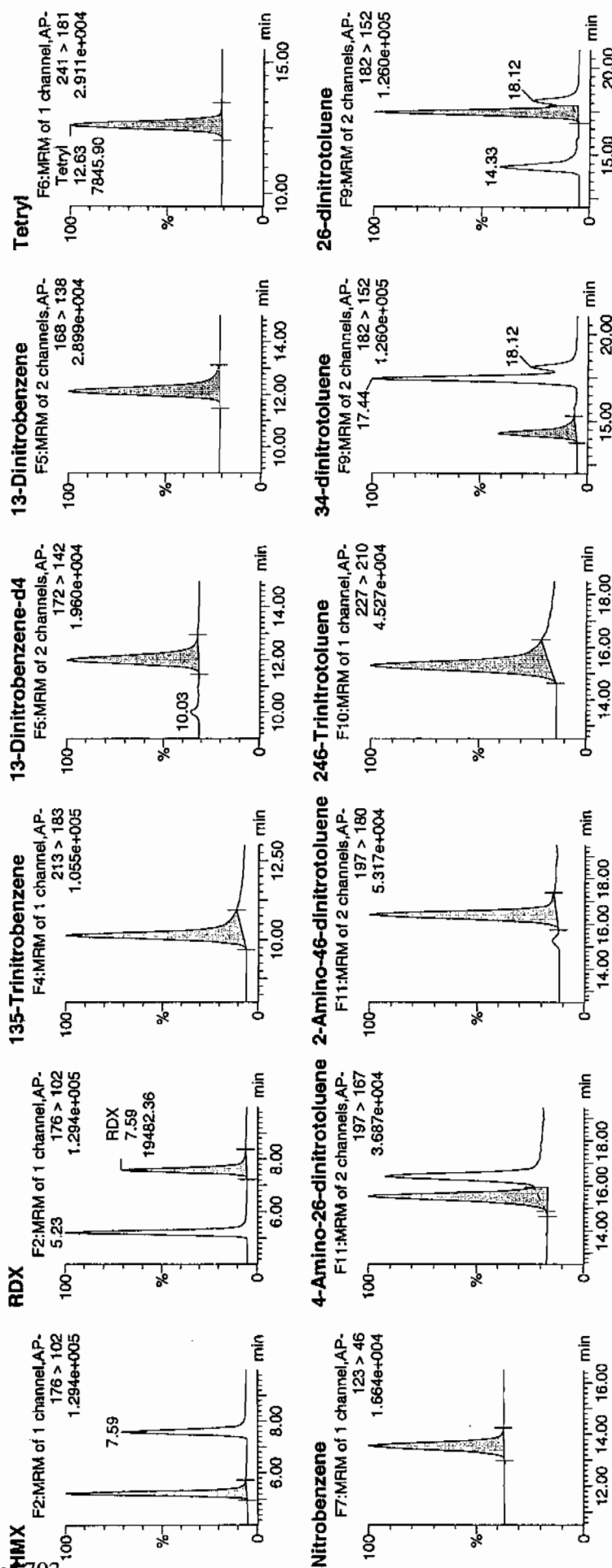
Date: 10-Apr-2010

Time: 02:06:36

ID: WXX100408-07CCV

Vial: 1:1,B

4/10/10



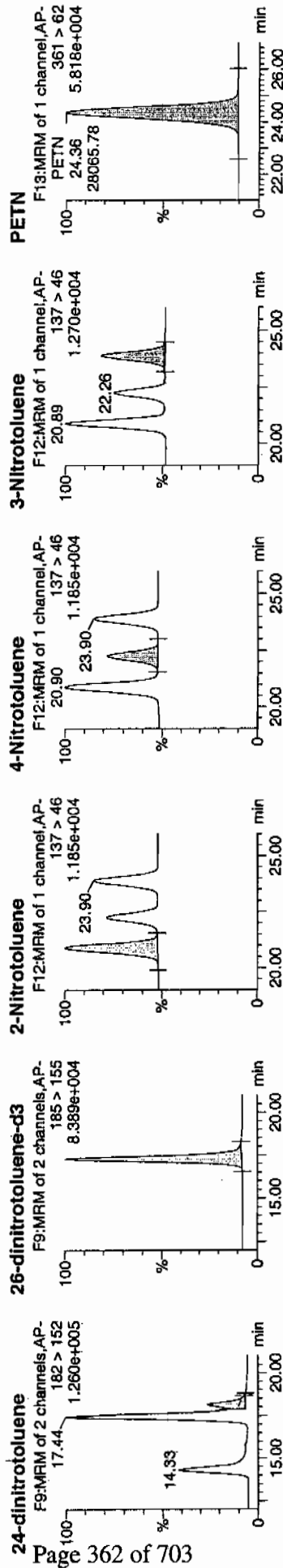
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 68 of 99

Dataset: C:\MASSLYN\New_Exp\PRO040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Flags	Mod Date	Mod Time	Intd/ml	%Rec	%Dev	Intd/SN	
WXX100408-07CCV	HMX	176 > 102	5.23	24030.314	5288.059	24030.314	2272.130	bb		711.3217	118.6	18.6	1694.3	
WXX100408-07CCV	RDX	176 > 102	7.59	19482.361	5288.059	19482.361	1842.109	bb		755.9338	126.0	26.0	1174.8	
WXX100408-07CCV	135-Trinitrobenzene	213 > 183	10.14	28473.727	5288.059	28473.727	2692.266	bb		637.4719	106.2	6.2	2781.8	
WXX100408-07CCV	13-Dinitrobenzene-d4	172 > 142	12.00	5288.059		5288.059	5288.059	bb		406.8959	81.4	-18.6	698.2	
WXX100408-07CCV	13-Dinitrobenzene	168 > 138	12.14	8664.705	5288.059	8664.705	819.271	bb		636.1433	106.0	6.0	1286.5	
WXX100408-07CCV	Tetryl	241 > 181	12.63	7845.897	5288.059	7845.897	741.850	bb		720.5445	120.1	20.1	390.5	
WXX100408-07CCV	Nitrobenzene	123 > 46	13.53	3682.273	5288.059	3682.273	348.169	bb		579.3123	96.6	-3.4	419.6	
WXX100408-07CCV	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	297.6
WXX100408-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.40	18975.732	31521.859	18975.732	300.993	bb		658.8739	109.8	9.8	436.8	
WXX100408-07CCV	246-Trinitrotoluene	227 > 210	15.30	18214.992	31521.859	18214.992	288.926	bb		750.8607	125.1	25.1	499.2	
WXX100408-07CCV	34-dinitrotoluene	182 > 152	14.33	19832.203	31521.859	19832.203	314.579	bb		306.7323	102.2	2.2	620.8	
WXX100408-07CCV	26-dinitrotoluene	182 > 152	17.44	43389.195	31521.859	43389.195	688.240	MM	10-Apr-10	11:36:00	605.1306	100.9	0.9	1620.8
WXX100408-07CCV	24-dinitrotoluene	182 > 152	18.12	10212.255	31521.859	10212.255	161.987	MM	10-Apr-10	11:33:20	611.8850	102.0	2.0	342.7
WXX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.29	31521.859		31521.859	31521.859	bb		399.2273	79.8	-20.2	1622.7	
WXX100408-07CCV	2-Nitrotoluene	137 > 46	20.90	2672.846	31521.859	2672.846	42.397	bb		552.3178	92.1	-7.9	334.0	
WXX100408-07CCV	4-Nitrotoluene	137 > 46	22.26	1406.156	31521.859	1406.156	22.324	bb		573.9133	95.7	-4.3	181.9	
WXX100408-07CCV	3-Nitrotoluene	137 > 46	23.90	1837.850	31521.859	1837.850	29.152	bb		533.9463	89.0	-11.0	289.4	
WXX100408-07CCV	PETN	361 > 62	24.36	28065.779	31521.859	28065.779	445.180	bb		690.7370	115.1	15.1	8205.5	

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

4/10/10

Total 1714.1

Sum 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): 10-2009

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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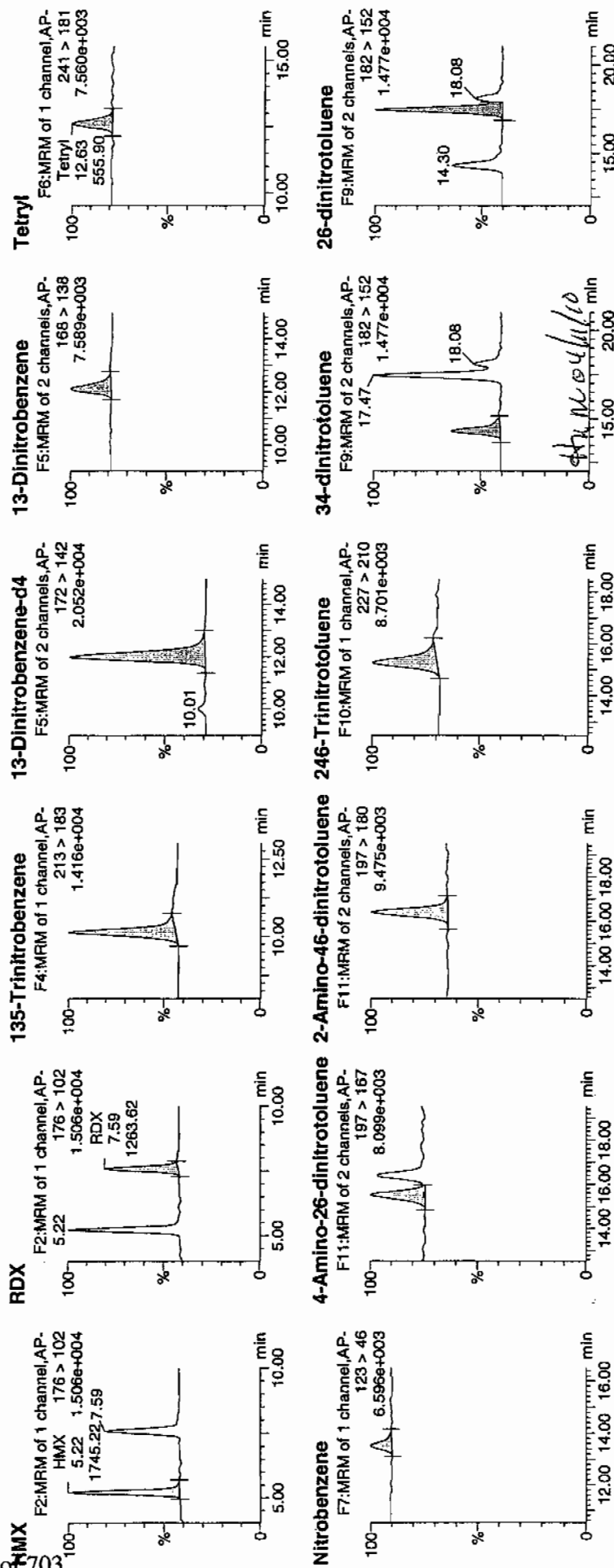
Date: 10-Apr-2010

Time: 03:05:40

ID: WXX100408-08CRI

Alal: 1:1,C

WXX
4/10/10

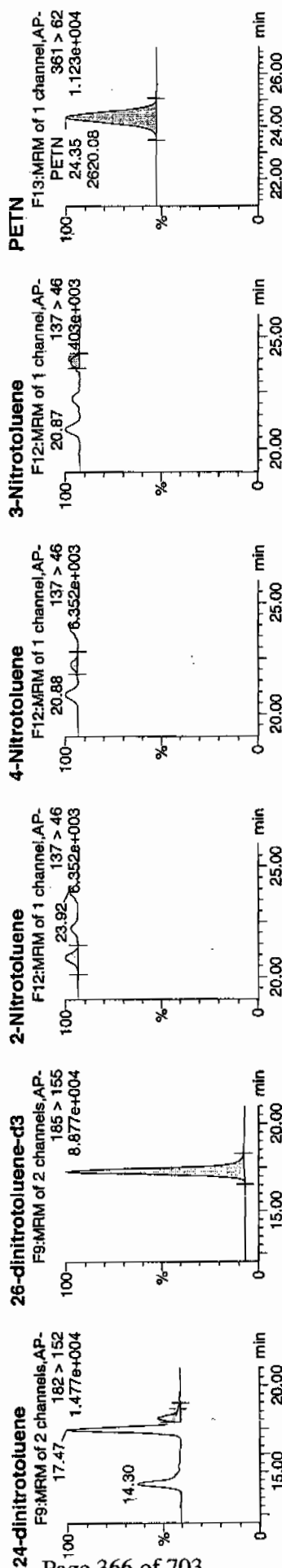


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO040810expA1.qld, Time: Sat Apr 10 11:40:36 2010

Printed: Sat Apr 10 11:42:30 2010, Page 72 of 99



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod:Date	Mod:Time	%Rec	%Dev	SN
WXX100408-08CRI	HMZ		5.22	1745.218	5743.754	1745.218	151.923	bb			47.5616	118.9	215.4
WXX100408-08CRI	RDX		7.59	1263.616	5743.754	1263.616	109.998	bb			45.1396	112.8	140.6
WXX100408-08CRI	135-Trinitrobenzene		10.13	2250.808	5743.754	2250.808	195.935	bb			46.3933	116.0	125.9
WXX100408-08CRI	13-Dinitrobenzene-d4		11.97	5743.754	5743.754	5743.754	5743.754	bb			441.9598	88.4	425.1
WXX100408-08CRI	13-Dinitrobenzene		12.10	600.272	5743.754	600.272	52.254	bb			40.5742	101.4	50.7
WXX100408-08CRI	Tetryl		12.63	555.897	5743.754	555.897	48.391	bb			47.0016	117.5	44.6
WXX100408-08CRI	Nitrobenzene		13.54	243.654	5743.754	243.654	21.210	bb			35.2916	88.2	20.9
WXX100408-08CRI	4-Amino-26-dinitrotoluene		15.53	898.775	33959.496	898.775	13.233	MM	10-Apr-10	11:37:24	42.5100	106.3	48.0
WXX100408-08CRI	2-Amino-46-dinitrotoluene		16.41	1432.301	33959.496	1432.301	21.088	bb			46.1624	115.4	39.1
WXX100408-08CRI	246-Trinitrotoluene		15.28	1237.884	33959.496	1237.884	16.226	bb			47.3654	118.4	23.7
WXX100408-08CRI	34-dinitrotoluene		14.30	1471.854	33959.496	1471.854	21.671	bb			21.1302	105.7	67.8
WXX100408-08CRI	26-dinitrotoluene		17.47	3203.022	33959.496	3203.022	47.159	MM	10-Apr-10	11:36:06	41.4647	103.7	175.2
WXX100408-08CRI	24-dinitrotoluene		18.08	804.818	33959.496	804.818	11.850	MM	10-Apr-10	11:33:08	44.7607	111.9	37.0
WXX100408-08CRI	26-dinitrotoluene-d3		17.27	33959.496	33959.496	33959.496	33959.496	bb			430.1002	86.0	2024.8
WXX100408-08CRI	2-Nitrotoluene		20.88	213.177	33959.496	213.177	3.139	bb			40.8890	102.2	49.3
WXX100408-08CRI	4-Nitrotoluene		22.23	98.046	33959.496	98.046	1.444	bb			37.1444	92.9	25.1
WXX100408-08CRI	3-Nitrotoluene		24.00	121.825	33959.496	121.825	1.794	db			32.8530	82.1	11.1
WXX100408-08CRI	PETN		24.35	2620.083	33959.496	2620.083	38.577	bb			48.6484	121.6	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

4/10/10

Total 1715.0

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): 10-2009

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
1,3,5-Trinitrobenzene	600	582.253	97	
1,3-Dinitrobenzene-d4	500	448.35	90	
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	

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 93 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\EXP0408072a

Date: 10-Apr-2010

Time: 08:30:12

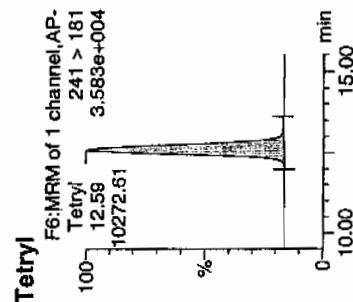
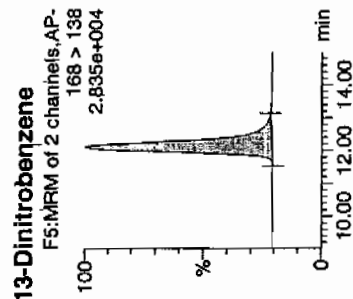
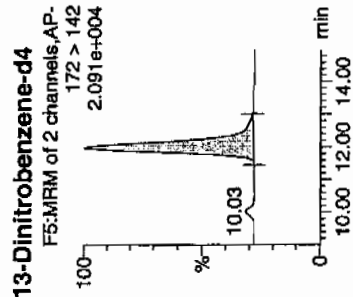
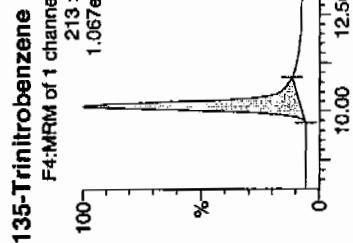
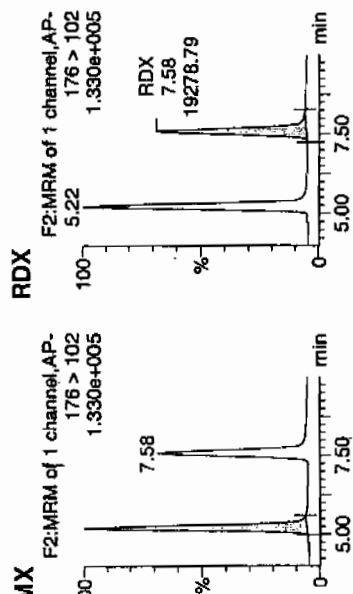
ID: WYX100408-07CCV

Vial: 1:1,B

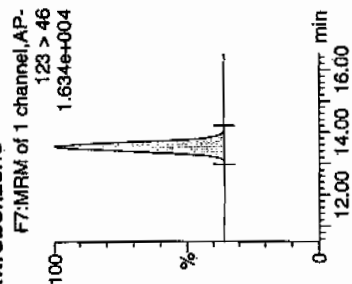
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703

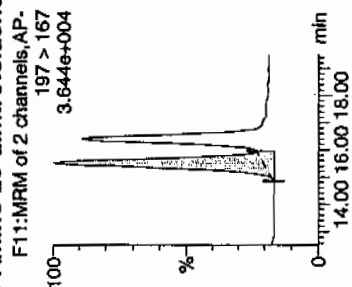
RDX



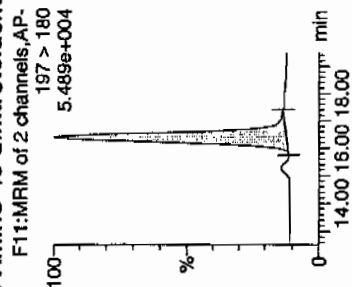
Nitrobenzene



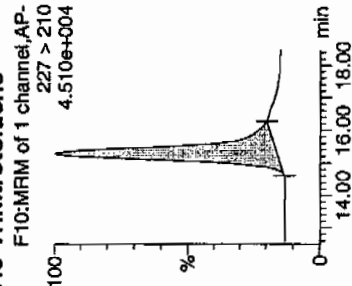
4-Amino-26-dinitrotoluene



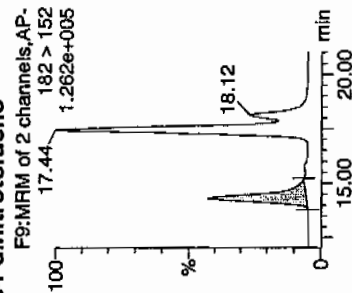
2-Amino-46-dinitrotoluene



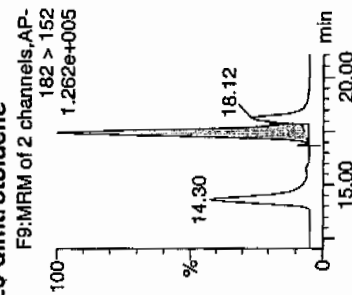
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

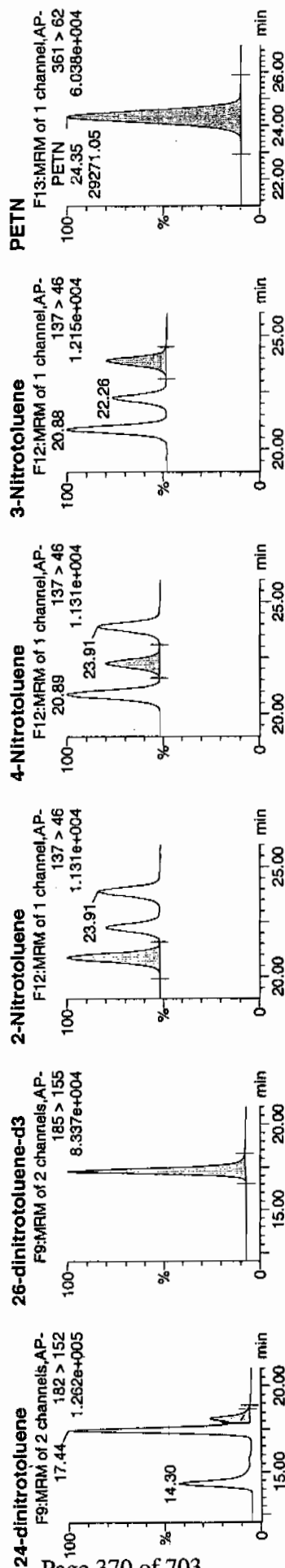


thru 4/11/10

Quantify Sample Report

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

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



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Norml	%Req	Codev	SIN
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	bb			448.3498	89.7	-10.3	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	10-Apr-10	11:37:15	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	10-Apr-10	11:36:17	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	10-Apr-10	11:32:52	638.1510	106.4	6.4	452.2
WXX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.27	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	460.869	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

Handwritten: 4/10/10

Total 1697.1

Average 106.1

Handwritten: 4/10/10

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): 10-2009

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

Printed: Sat Apr 10 11:42:30 2010, Page 97 of 99

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

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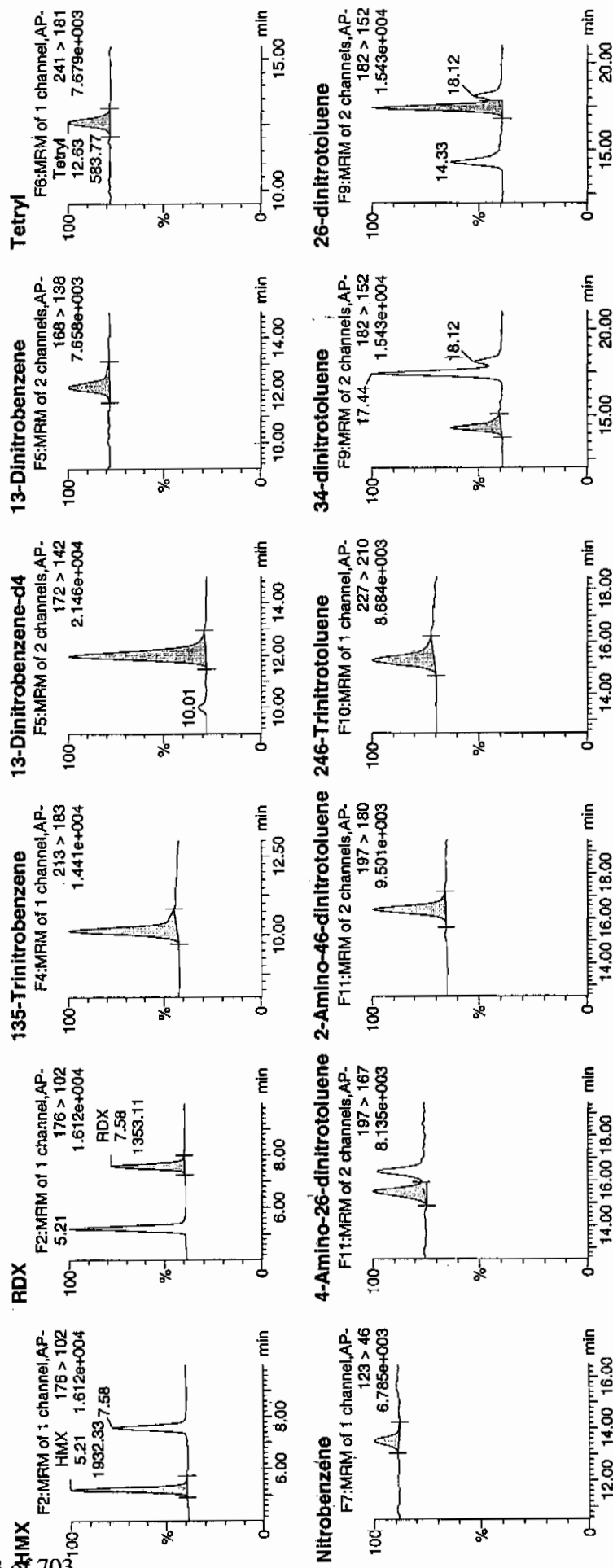
Date: 10-Apr-2010

Time: 09:29:16

ID: WXX100408-08CR1

Vial: 1:1,C

4/10/10



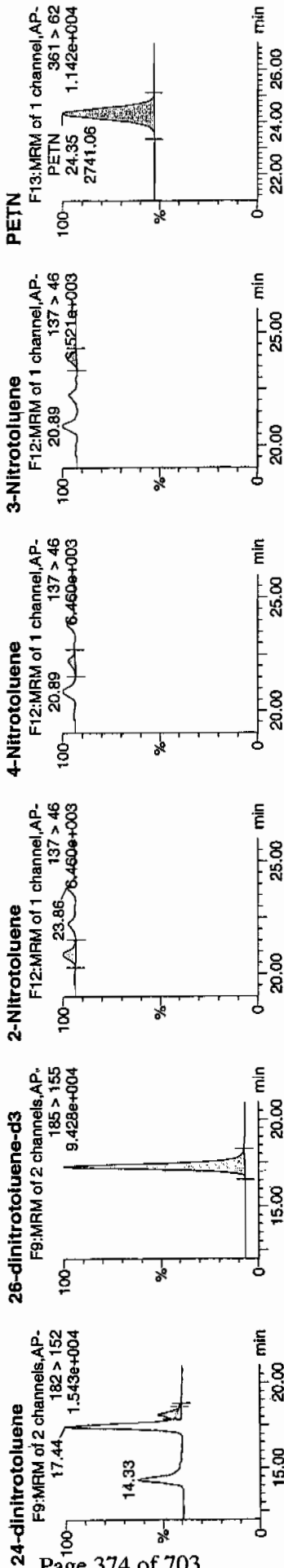
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 98 of 99

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 Date	Mod Time	Res	%Dev	SSN
WXX100408-08CRI	HMX	176 > 102	5.21	1932.331	6014.345	1932.331	160.644	bb			50.2917	125.7	26.9
WXX100408-08CRI	RDX	176 > 102	7.58	1353.113	6014.345	1353.113	112.490	bb			46.1620	115.4	170.3
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2379.034	6014.345	2379.034	197.780	bb			46.8301	117.1	320.6
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	11.97	6014.345	6014.345	6014.345	6014.345	bb			462.7808	92.6	-7.4
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.14	673.543	6014.345	673.543	55.995	bb			43.4785	108.7	8.7
WXX100408-08CRI	Tetryl	241 > 181	12.63	583.766	6014.345	583.766	48.531	bb			47.1373	117.8	17.8
WXX100408-08CRI	Nitrobenzene	123 > 46	13.53	290.097	6014.345	290.097	24.117	bb			40.1280	100.3	0.3
WXX100408-08CRI	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
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.40	1351.508	36300.254	1351.508	18.616	bb			40.7497	101.9	1.9
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.30	1205.129	36300.254	1205.129	16.599	bb			43.1386	107.8	7.8
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.33	1473.642	36300.254	1473.642	20.298	bb			19.7917	99.0	-1.0
WXX100408-08CRI	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
WXX100408-08CRI	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
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.26	36300.254	36300.254	36300.254	36300.254	bb			459.7461	91.9	-8.1
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.89	206.536	36300.254	206.536	2.845	bb			37.0606	92.7	-7.3
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.25	102.871	36300.254	102.871	1.417	bb			36.4593	91.1	-8.9
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.85	121.594	36300.254	121.594	1.675	bb			30.6762	76.7	-23.3
WXX100408-08CRI	PETN	361 > 62	24.35	2741.064	36300.254	2741.064	37.755	bb			47.5068	118.8	18.8

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

*sum
9/10/10*

Total 1681.8

Average 105.1

sum 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): 10-2009

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
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	
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	*

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: Sun Apr 11 11:47:08 2010, Page 21 of 97

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

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Date: 10-Apr-2010

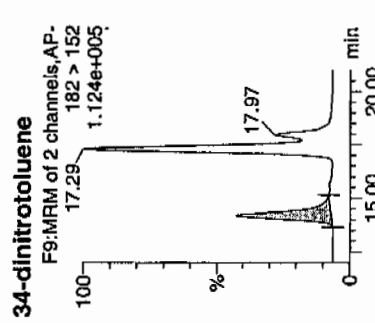
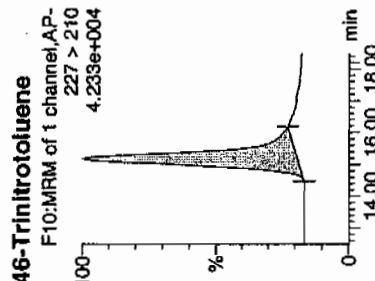
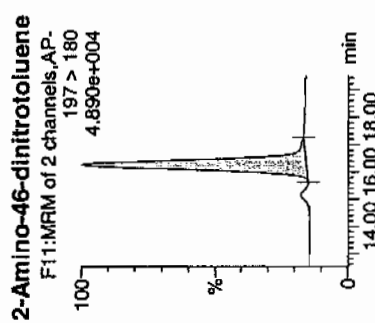
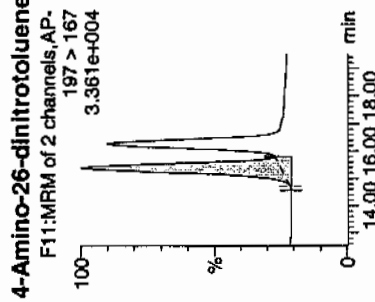
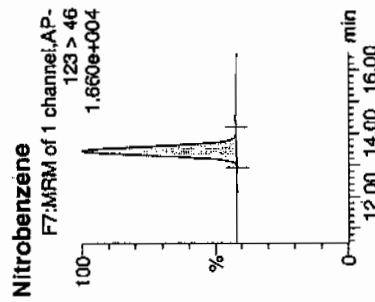
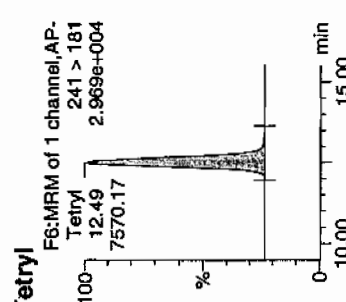
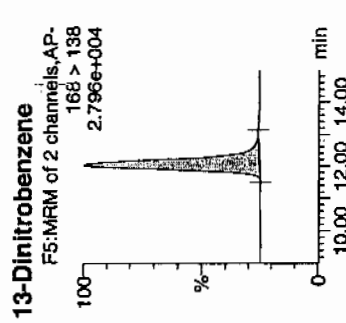
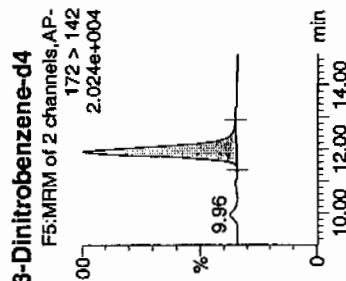
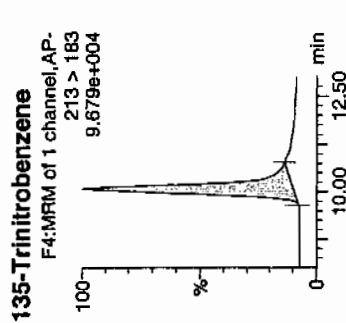
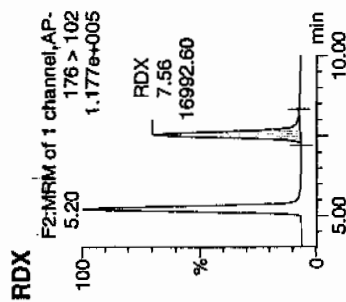
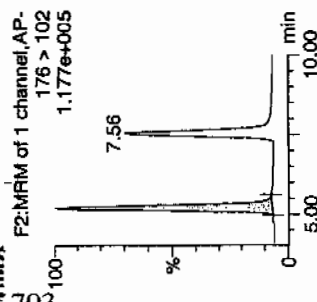
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ID: WXX100410-07CCV

Vial: 1:1,B

MMT
4/11/10

HMZ



4/11/10

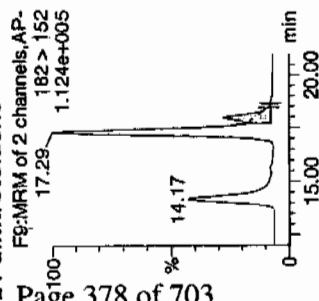
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

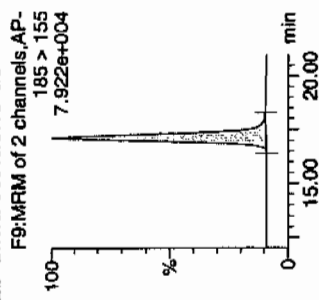
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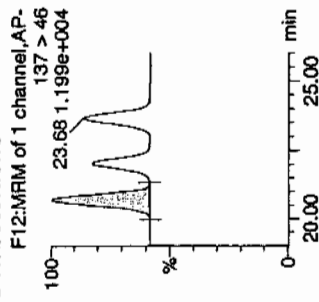
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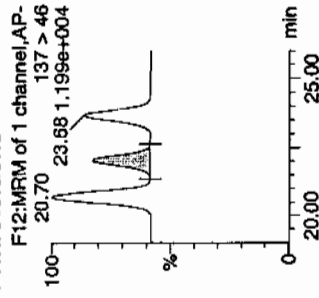
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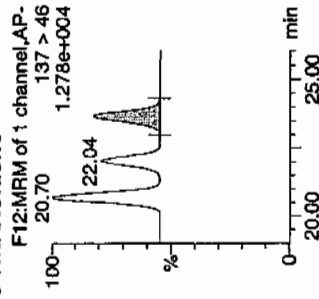
2-Nitrotoluene



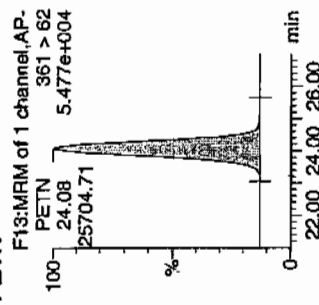
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	%Dev	S/N
WXX100410-07CCV	HMX	176 > 102	5.20	21411.418	4821.674	21411.418	2220.330	bb			695.1052	115.9	1690.9
WXX100410-07CCV	RDX	176 > 102	7.56	16992.596	4821.674	16992.596	1762.105	bb			723.1033	120.5	1143.0
WXX100410-07CCV	135-Trinitrobenzene	213 > 183	10.09	25906.832	4821.674	25906.832	2686.498	bb			636.1060	106.0	471.5
WXX100410-07CCV	13-Dinitrobenzene-d4	172 > 142	11.92	4821.674		4821.674	4821.674	bb			371.0093	74.2	258.338.5
WXX100410-07CCV	13-Dinitrobenzene	168 > 138	12.03	7691.231		7691.231	797.569	bb			619.2920	103.2	3.2 268.0
WXX100410-07CCV	Tetryl	241 > 181	12.49	7570.172		7570.172	785.015	bb			762.4693	127.1	27.1 633.9
WXX100410-07CCV	Nitrobenzene	123 > 46	13.45	3360.572		3360.572	348.486	bb			579.8403	96.8	-3.4 220.4
WXX100410-07CCV	4-Amino-28-dinitrotoluene	197 > 167	15.39	11227.153		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		17200.504	297.445	bb			651.1064	108.5	8.5 1039.3
WXX100410-07CCV	246-Trinitrotoluene	227 > 210	15.18	16654.984		16654.984	288.011	bb			748.4824	124.7	24.7 821.7
WXX100410-07CCV	34-dinitrotoluene	182 > 152	14.17	17230.328		17230.328	297.961	bb			290.5288	96.8	-3.2 509.9
WXX100410-07CCV	28-dinitrotoluene	182 > 152	17.29	39122.848		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		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		2375.910	41.086	bb			535.2444	89.2	-10.8 104.4
WXX100410-07CCV	4-Nitrotoluene	137 > 46	22.05	1286.426		1286.426	22.246	bb			572.4066	95.4	-4.6 59.8
WXX100410-07CCV	3-Nitrotoluene	137 > 46	23.69	1557.471		1557.471	26.933	bb			493.3038	82.2	-17.8 35.2
WXX100410-07CCV	PETN	361 > 62	24.08	25704.707		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

WTP
4/11/10

Total 1682.3

Handwritten: 04/11/10

Average 105.1

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): 10-2009

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

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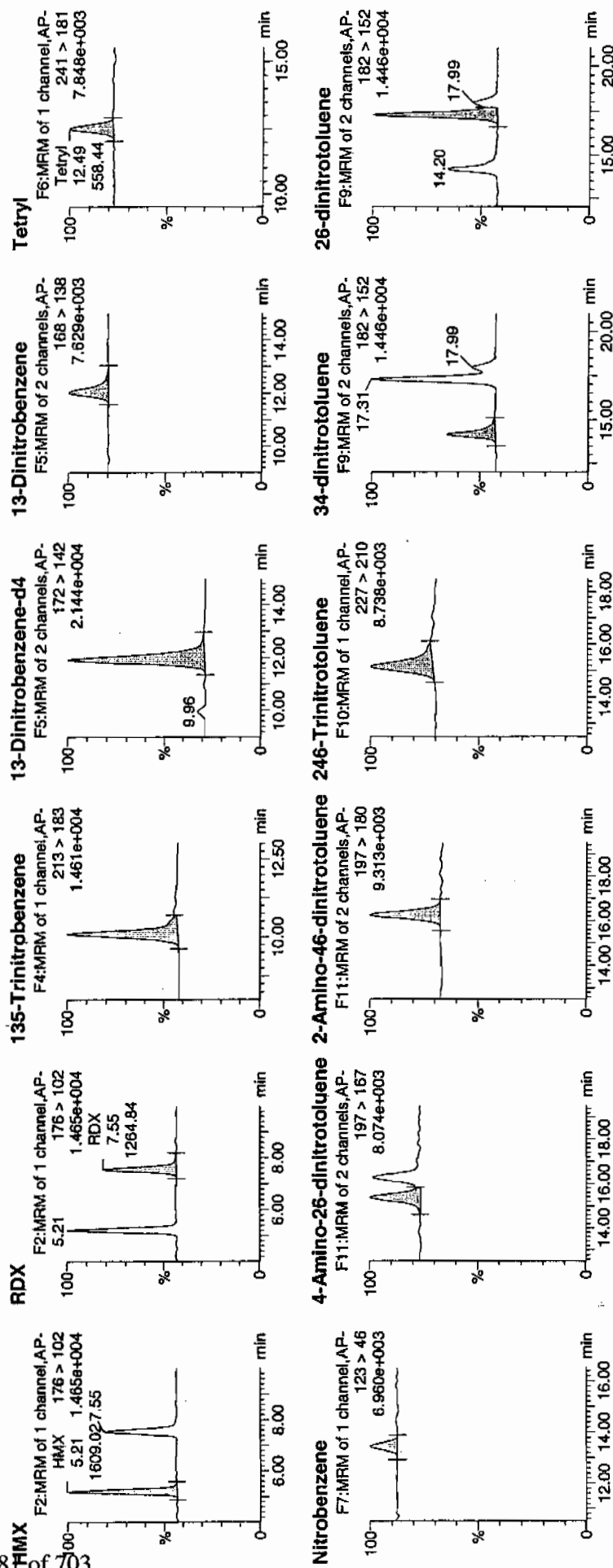
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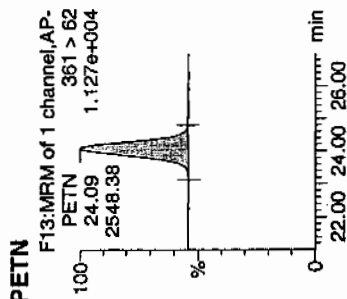
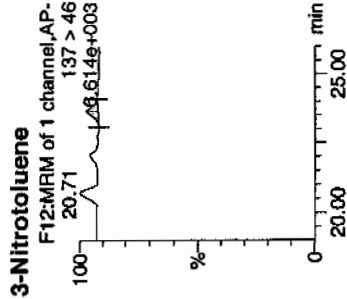
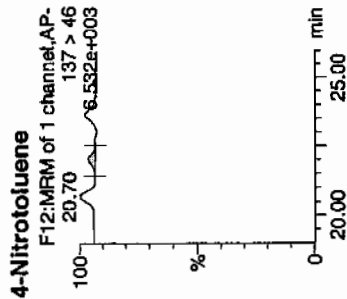
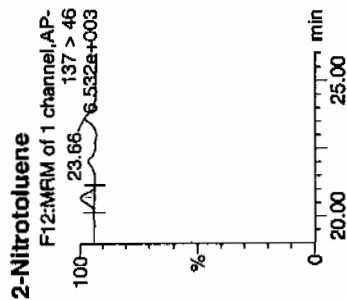
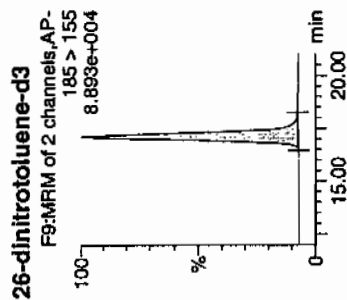
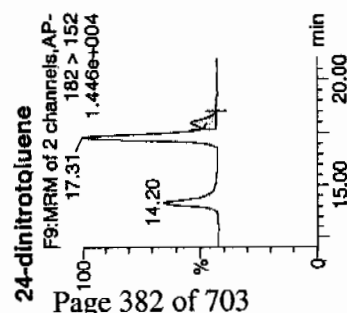
Vial: 1:1,C

μg
411.60



HW
04/11/10

Dataset: C:\MASSLYN\New Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010



ID	Name	Trace	RT	Area	IS Area	Abn Resp	Response	Flags	Mod Date	Mod Time	TD/m	%Rec	%Dev	ISIN
WXX100410-08CRI	HMX	176 > 102	5.21	1609.024	5780.081	1609.024	139.187	bb			43.5744	108.9	8.9	193.4
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-nitrobenzene	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			46.3202	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-nitrotoluene	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

*1007
4/11/10*

Total 1678.8

Average 104.9

Home 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): 10-2009

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
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	
2,4-Diamino-6-nitrotoluene	100	89.6	90	
2,6-Diamino-4-nitrotoluene	100	83	83	

Recovery Limits:

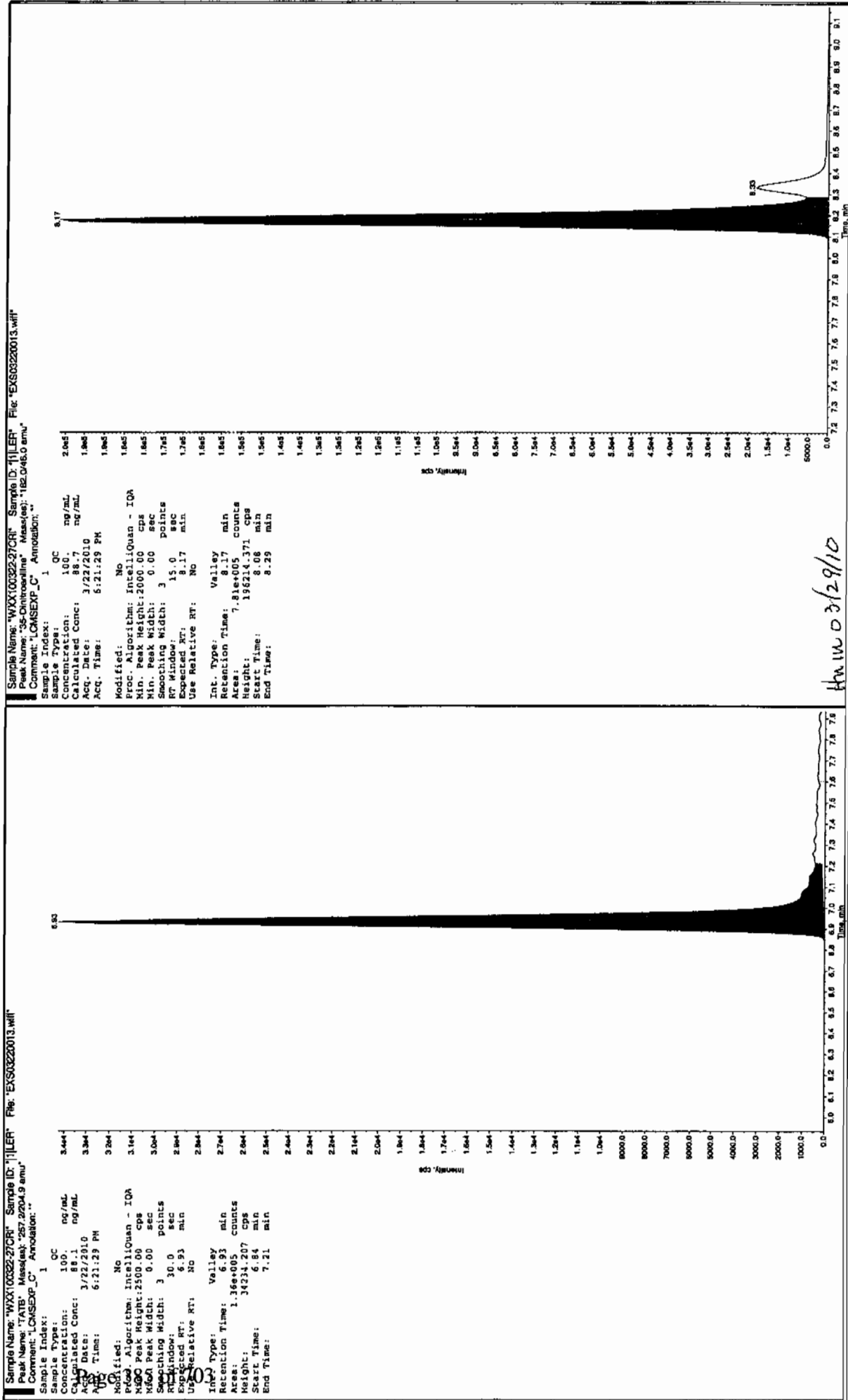
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

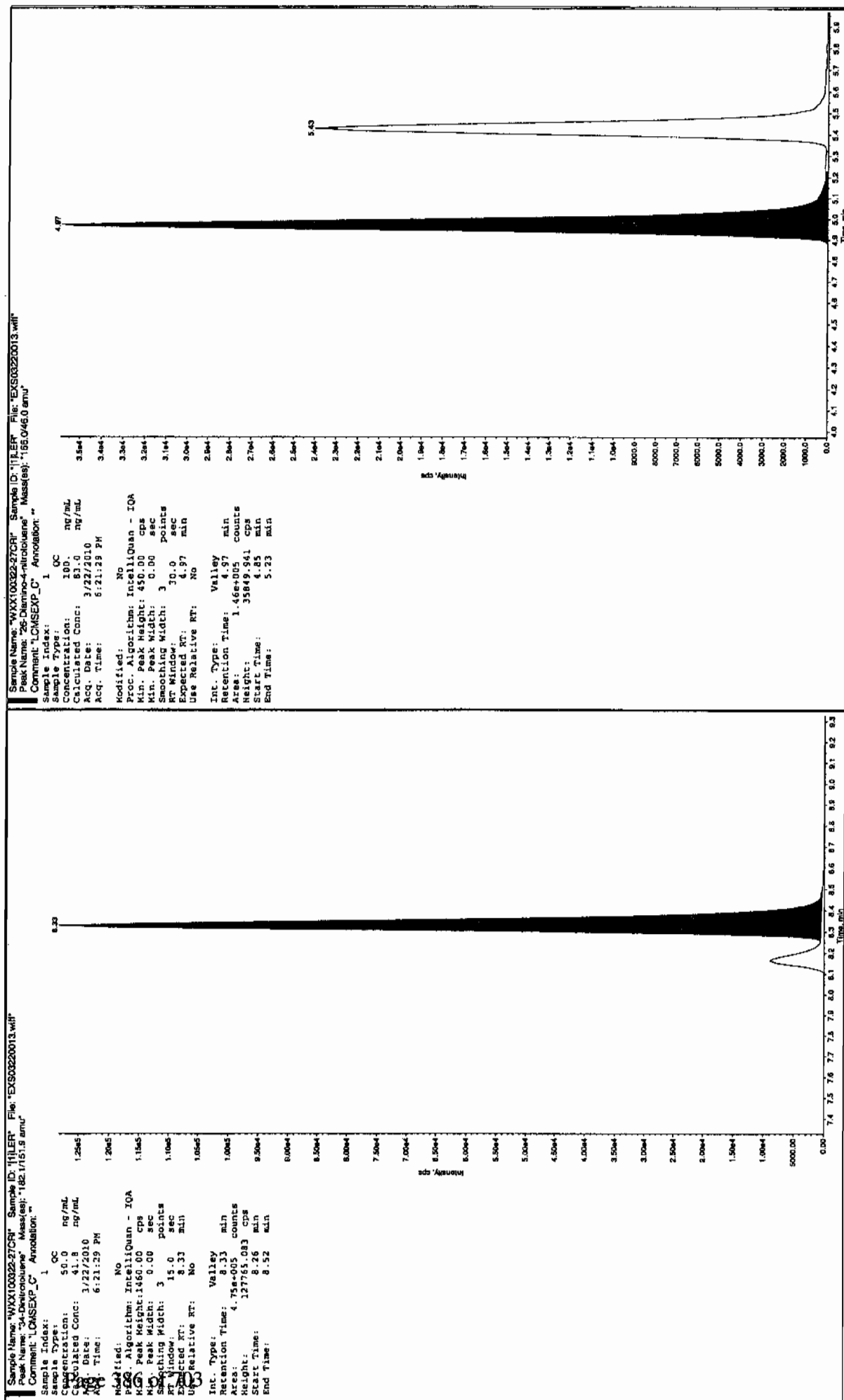
Other Target Analytes 70-130%

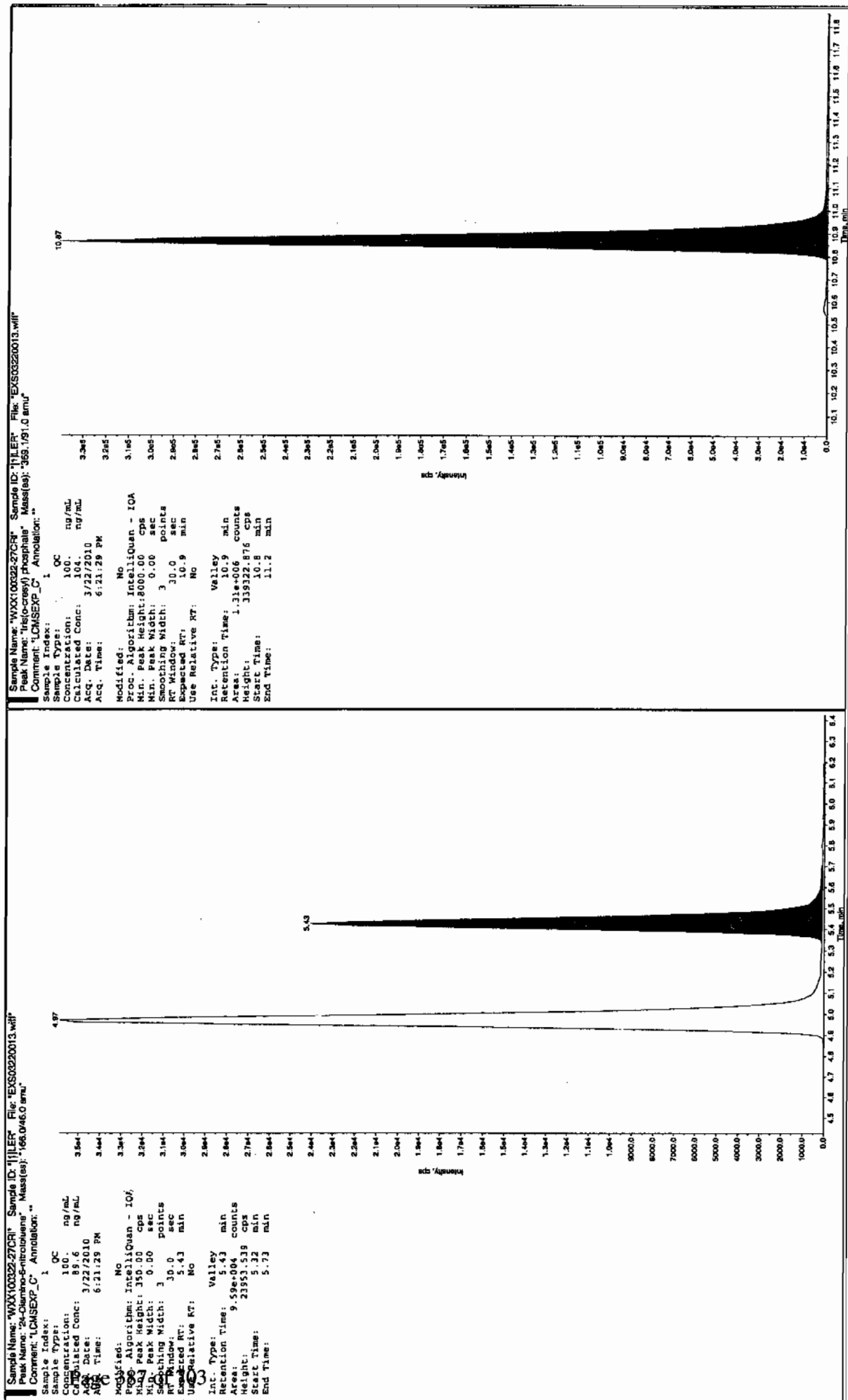
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 3/27/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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:

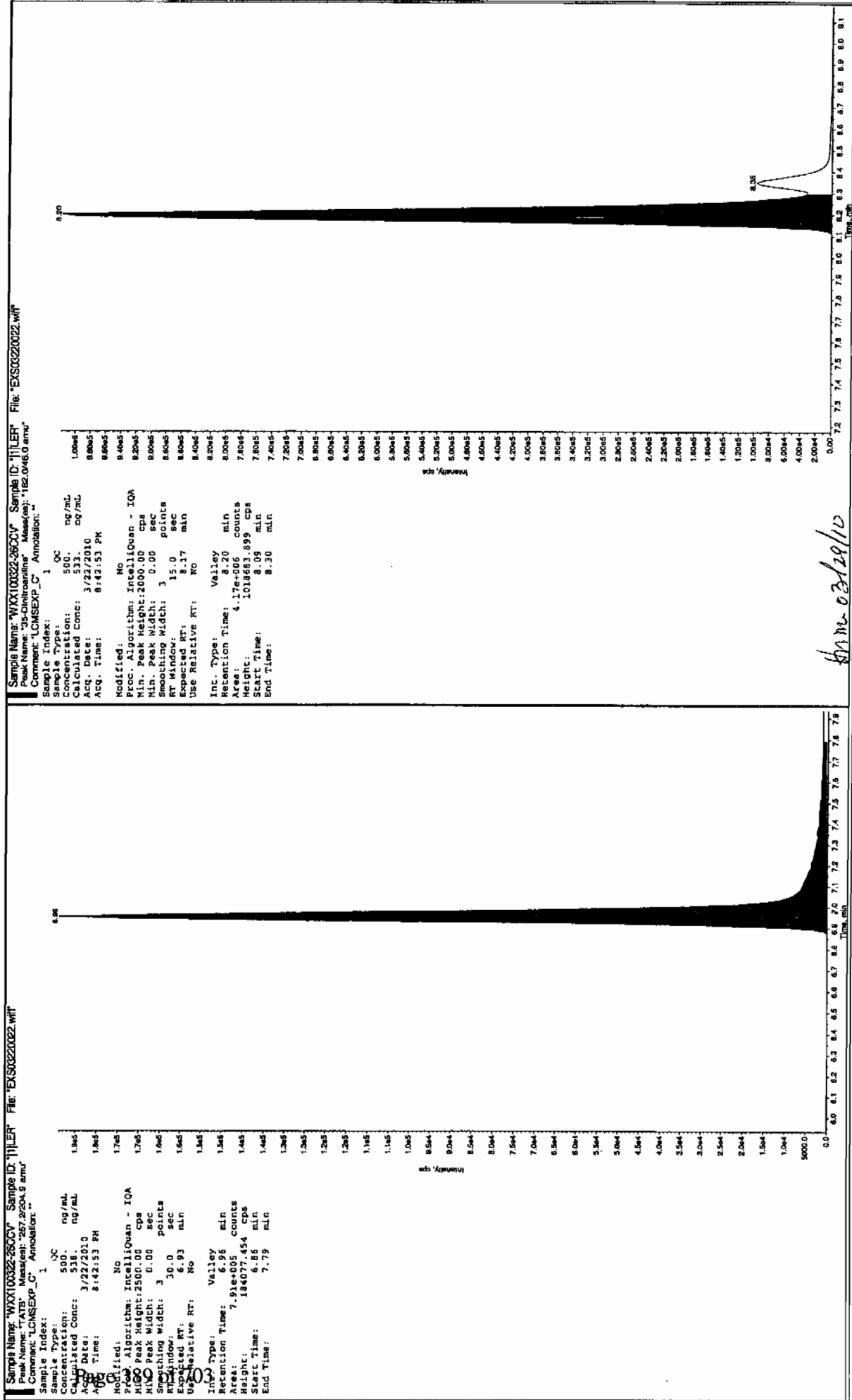
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

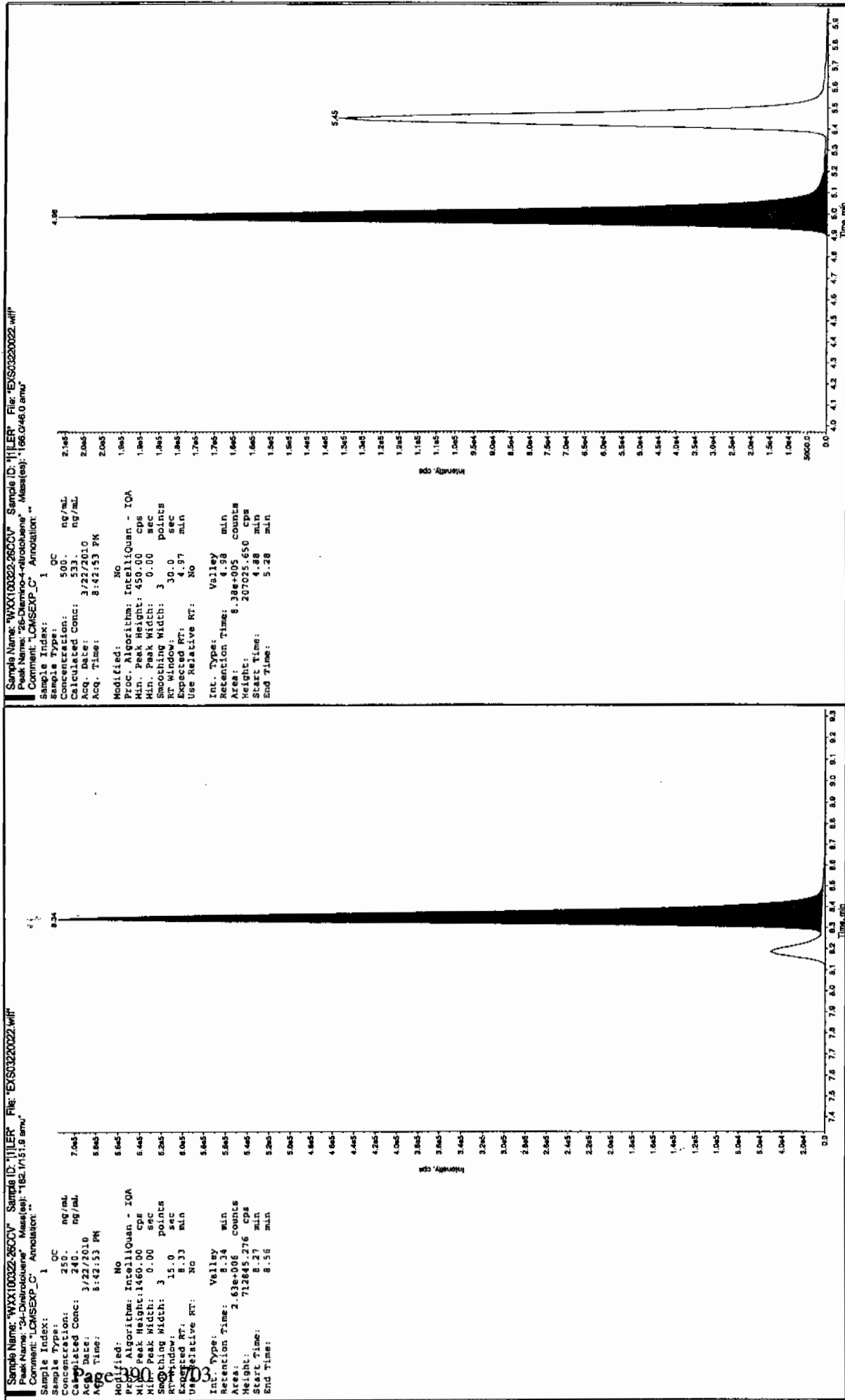
Column used to flag Recovery outside of Limits

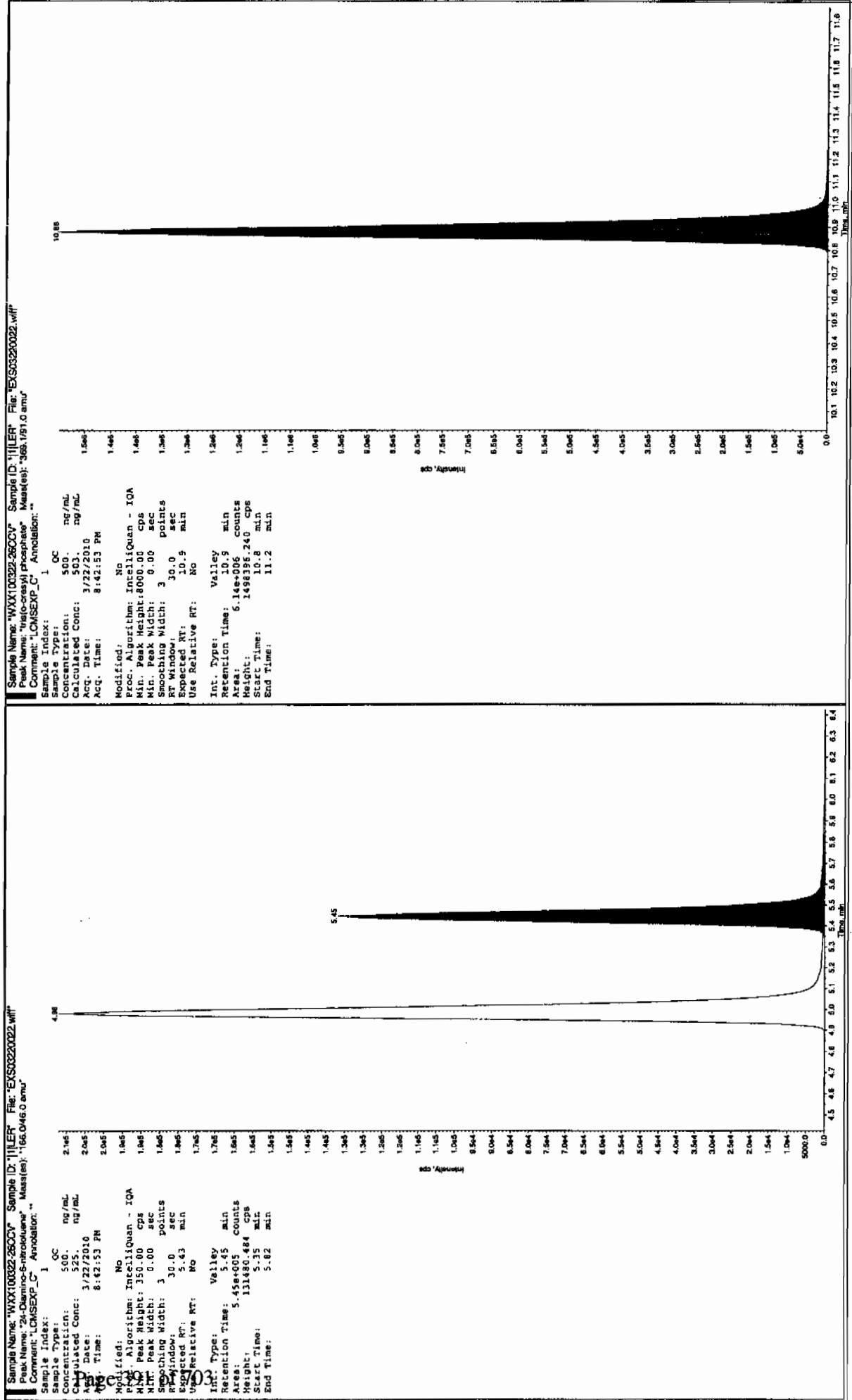
* Value outside of Recovery Limits

Jan 3/27/10



Jan 03/29/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220024.wiff

Analysis Date: 22-MAR-10 21:14

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

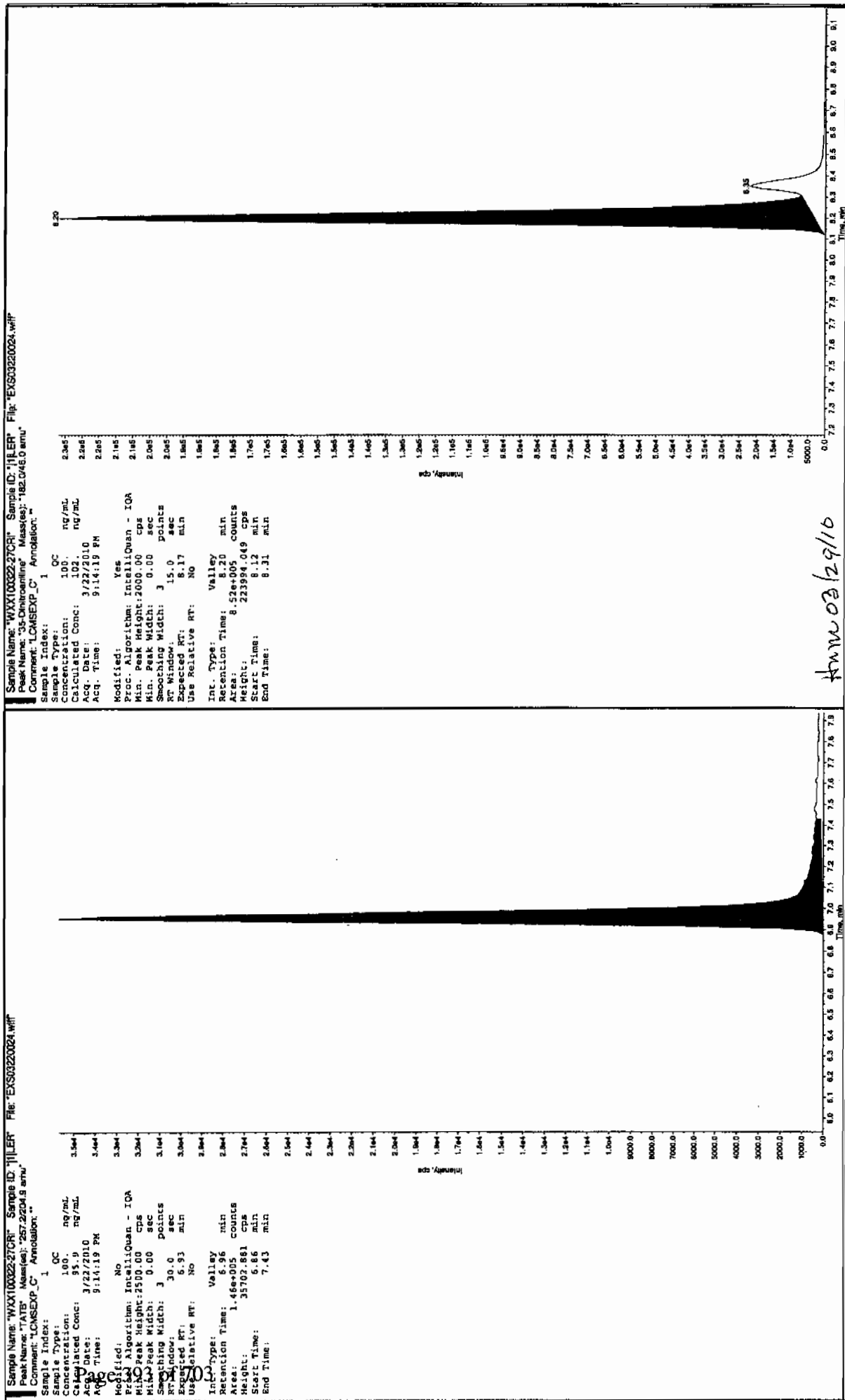
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

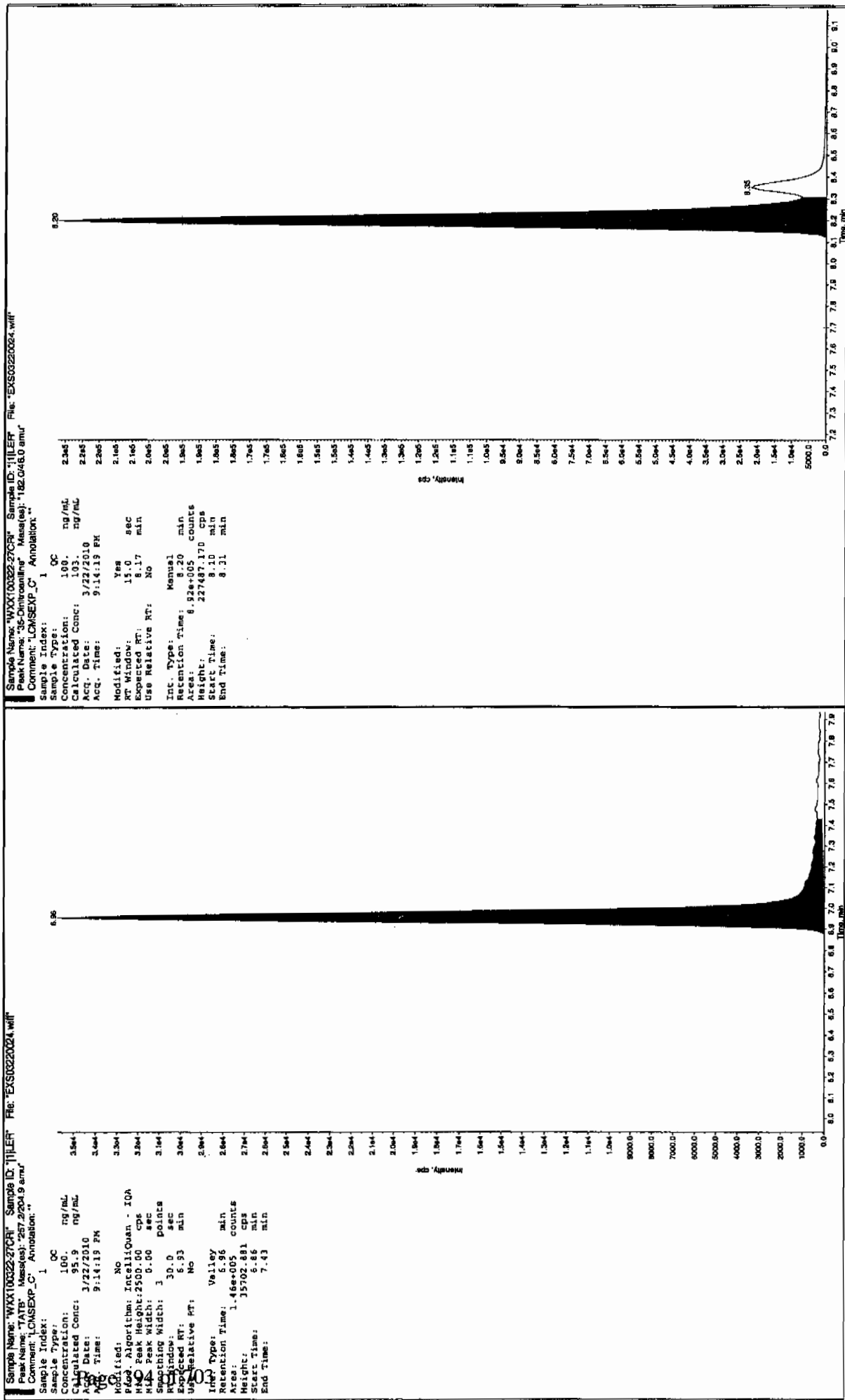
* Value outside of Recovery Limits

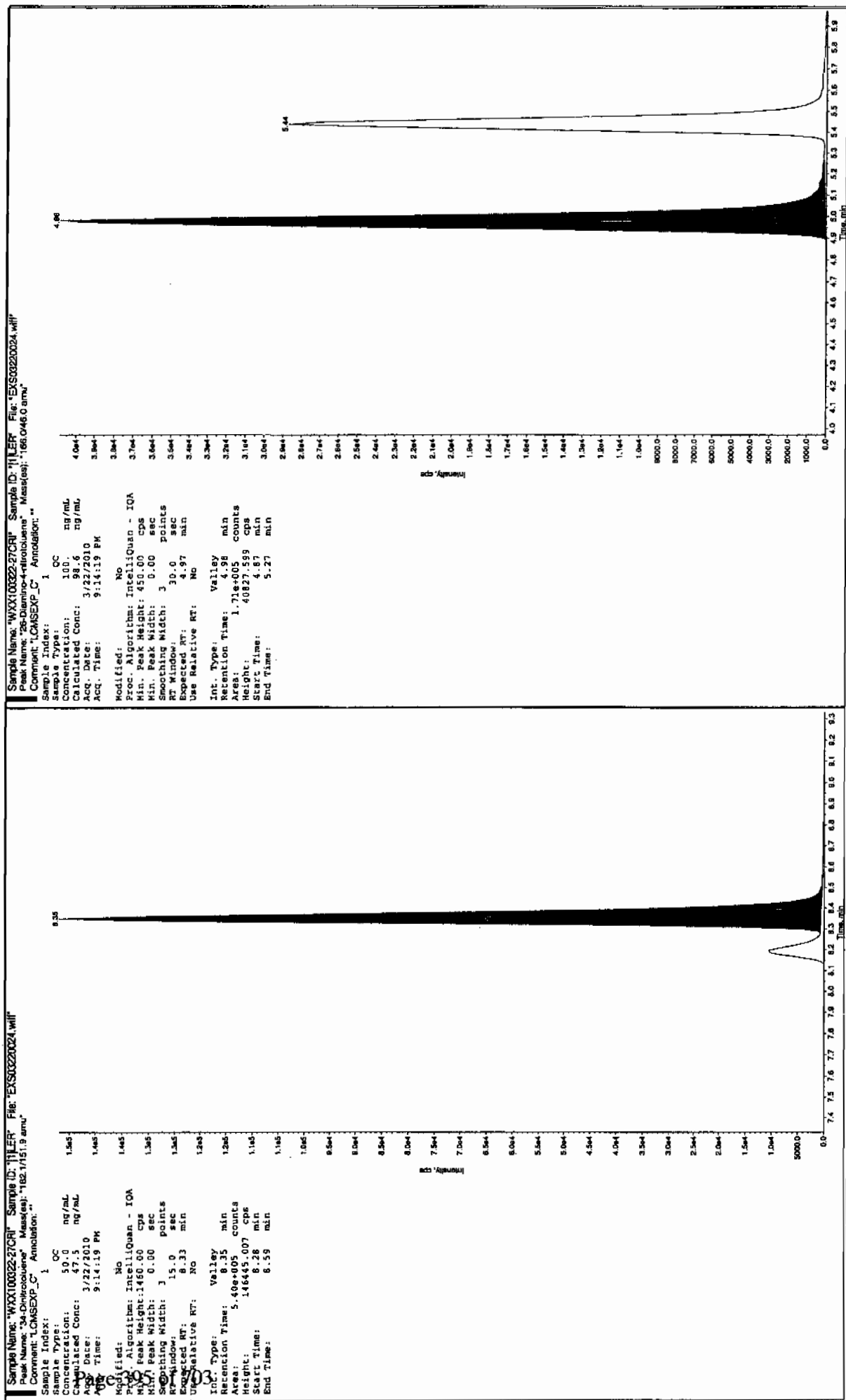
Before Jan 3/27/10

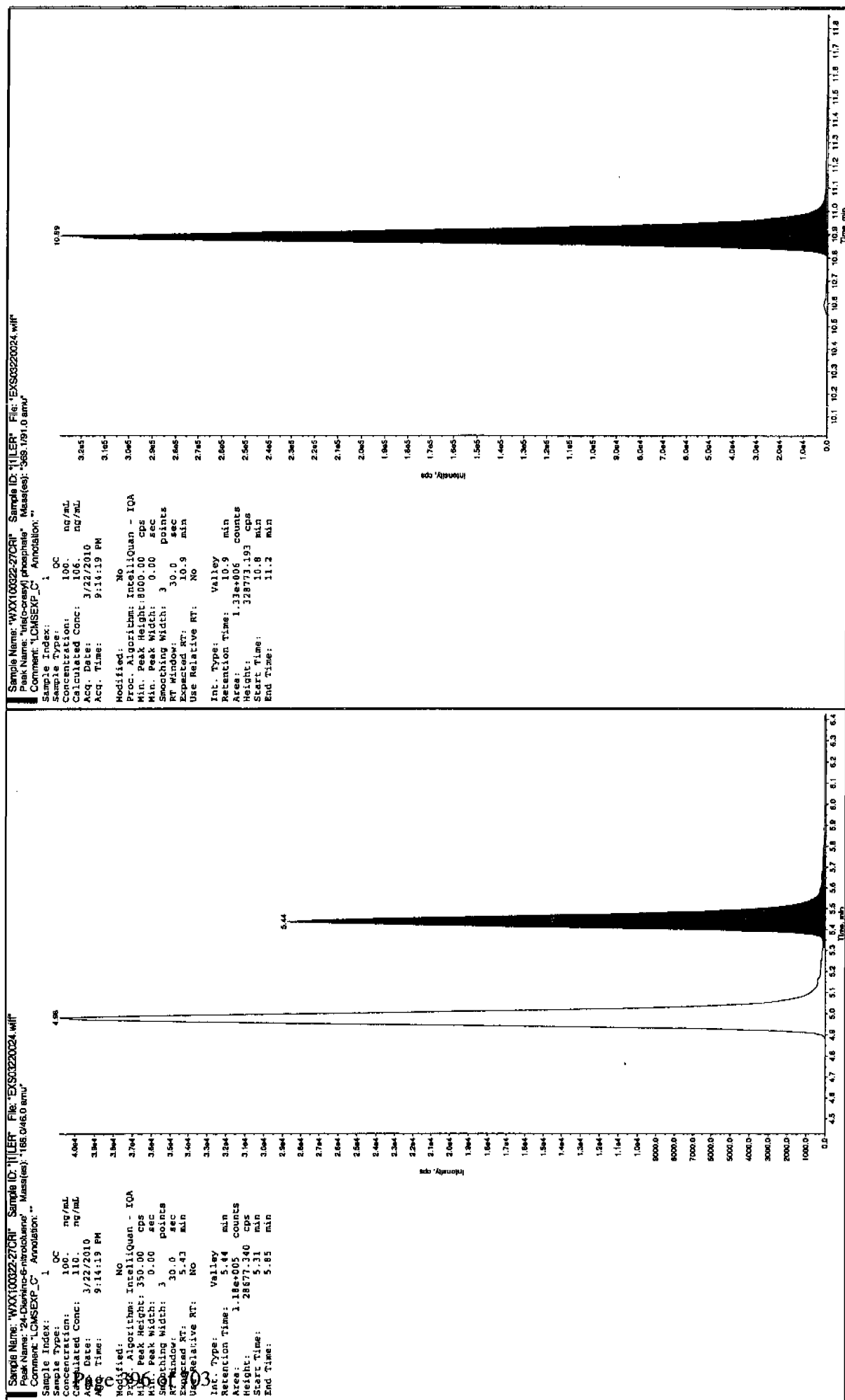


Amw 03/29/10

after Jan 31st 10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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	

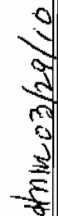
Recovery Limits:

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

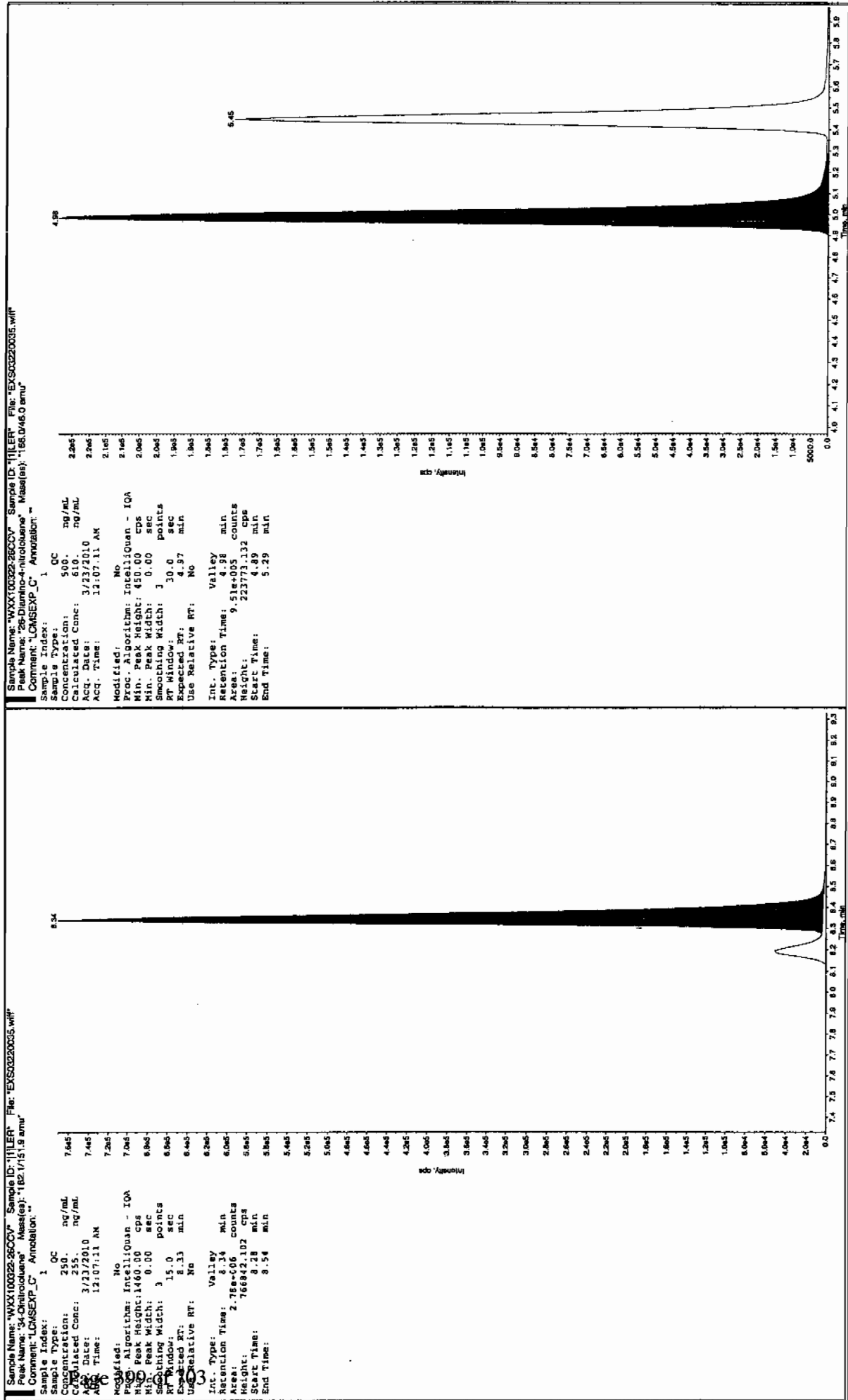
Other Target Analytes 80-120%

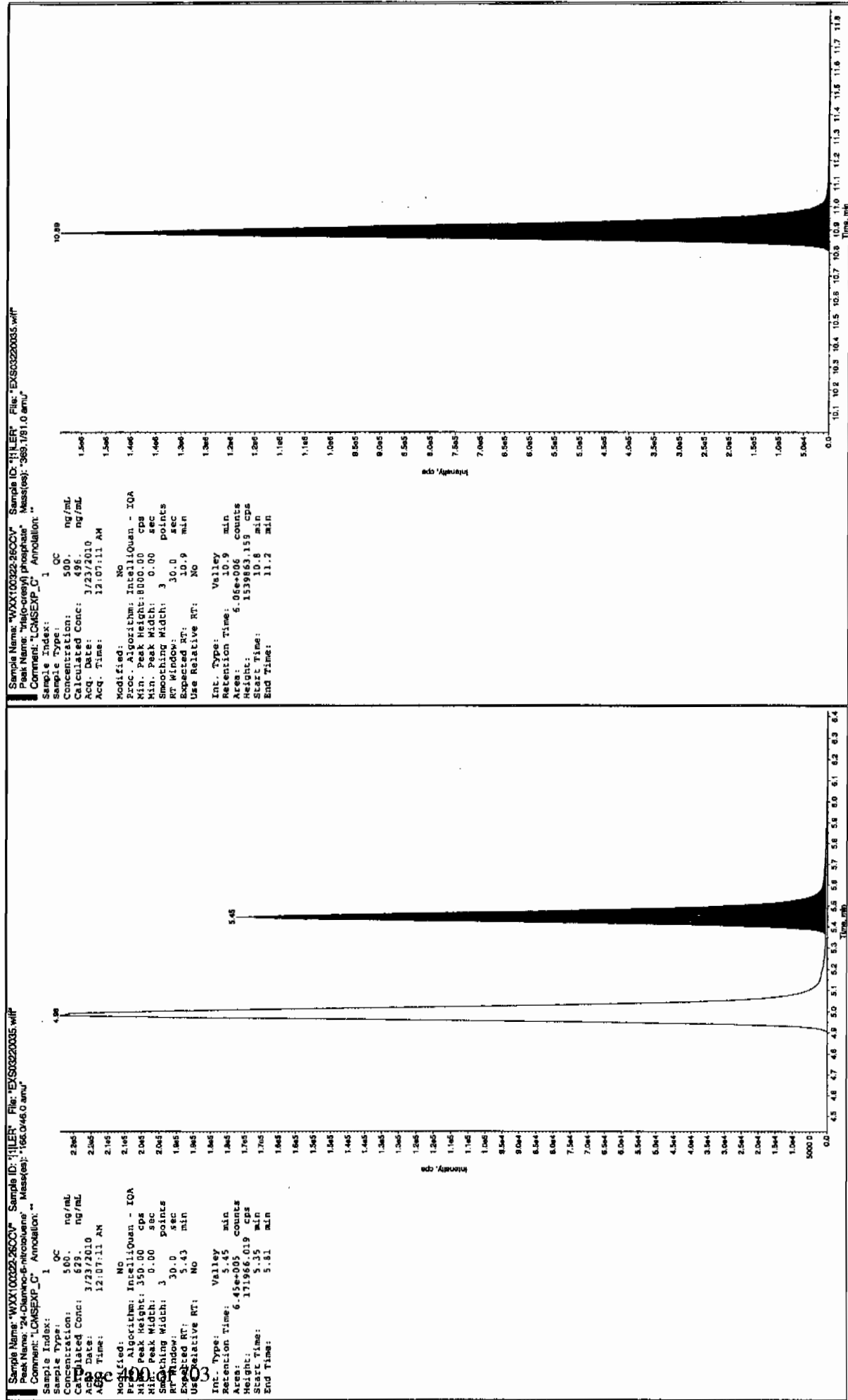
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits



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





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220037.wiff

Analysis Date: 23-MAR-10 00:38

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

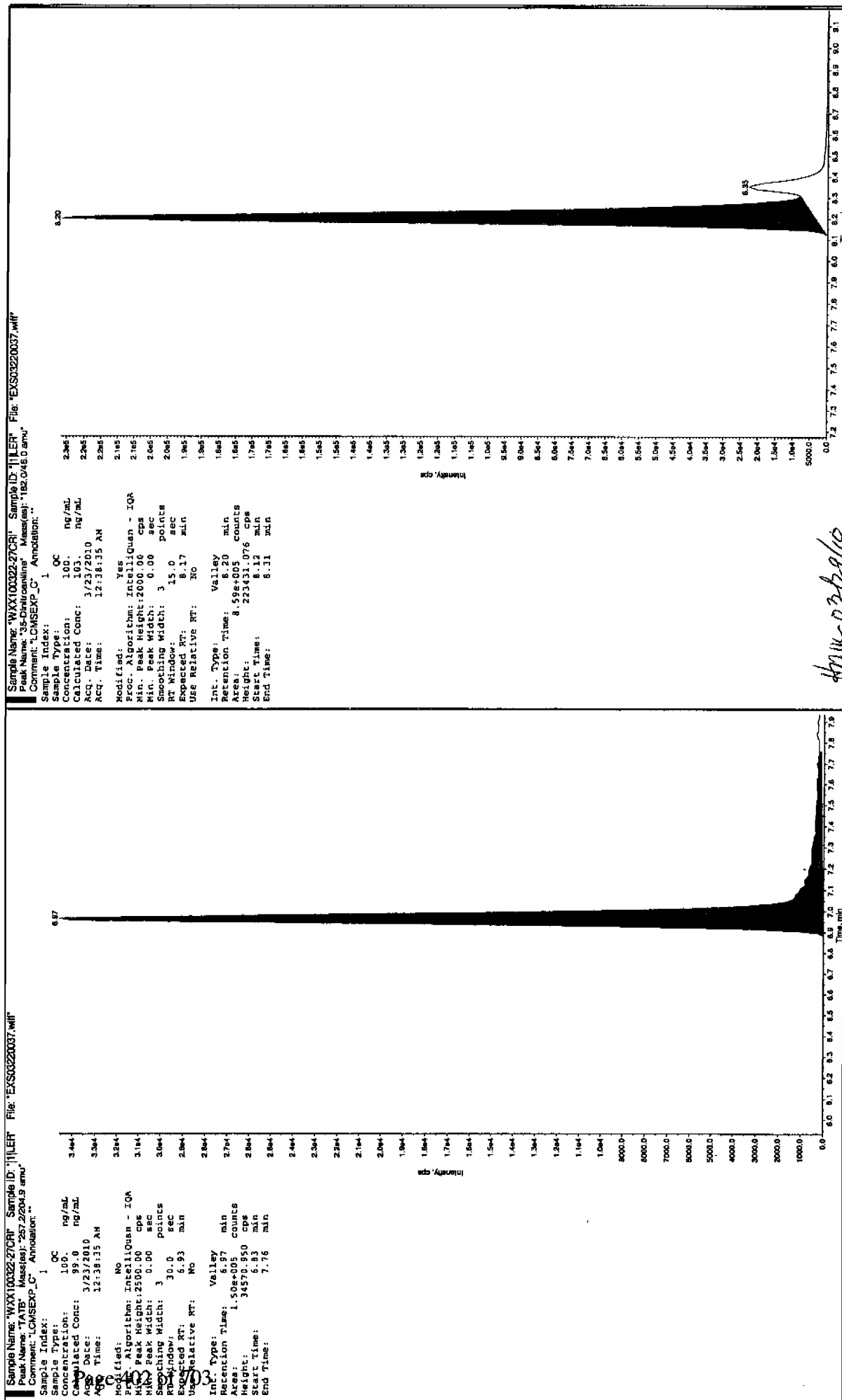
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

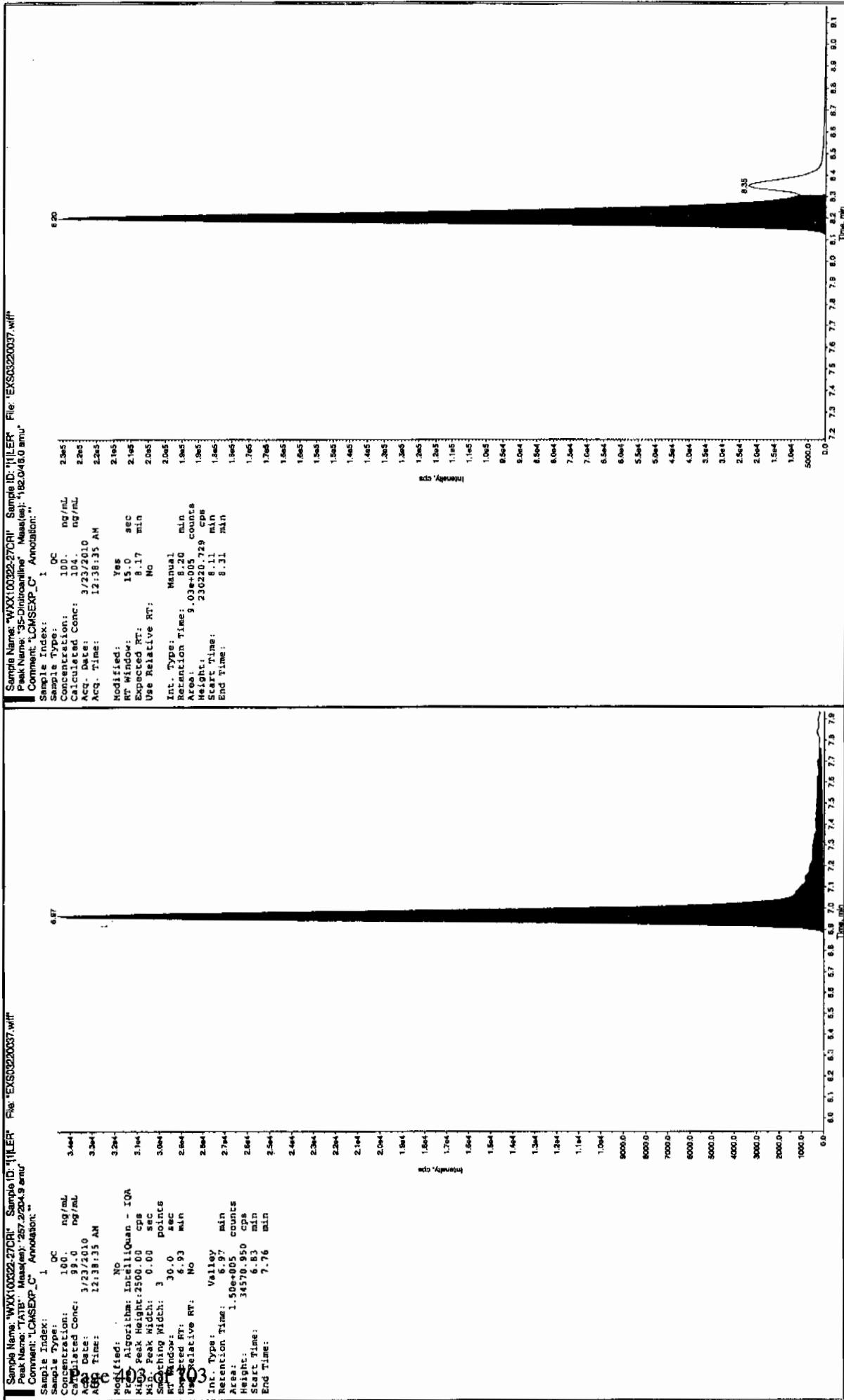
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3b7H10

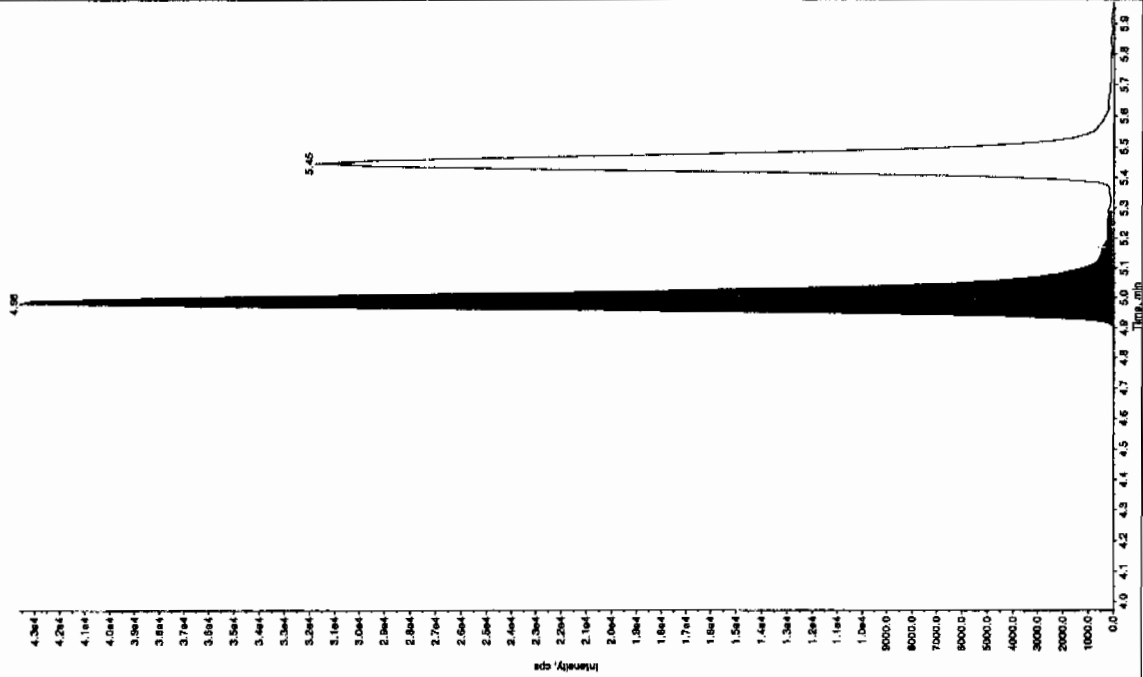


after Jan 3/27/10



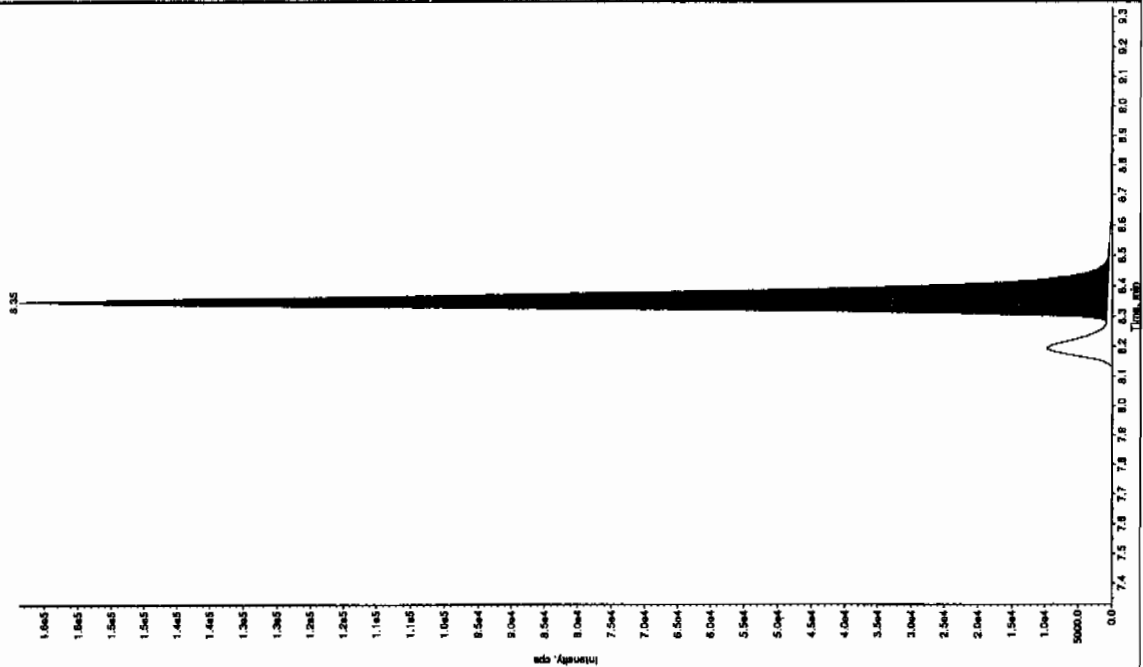
Sample Name: "WXX100322-2701" Sample ID: "111111" File: "EXS03220037.wif"
 Peak Name: "26-Diamino-4-nitroourea" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

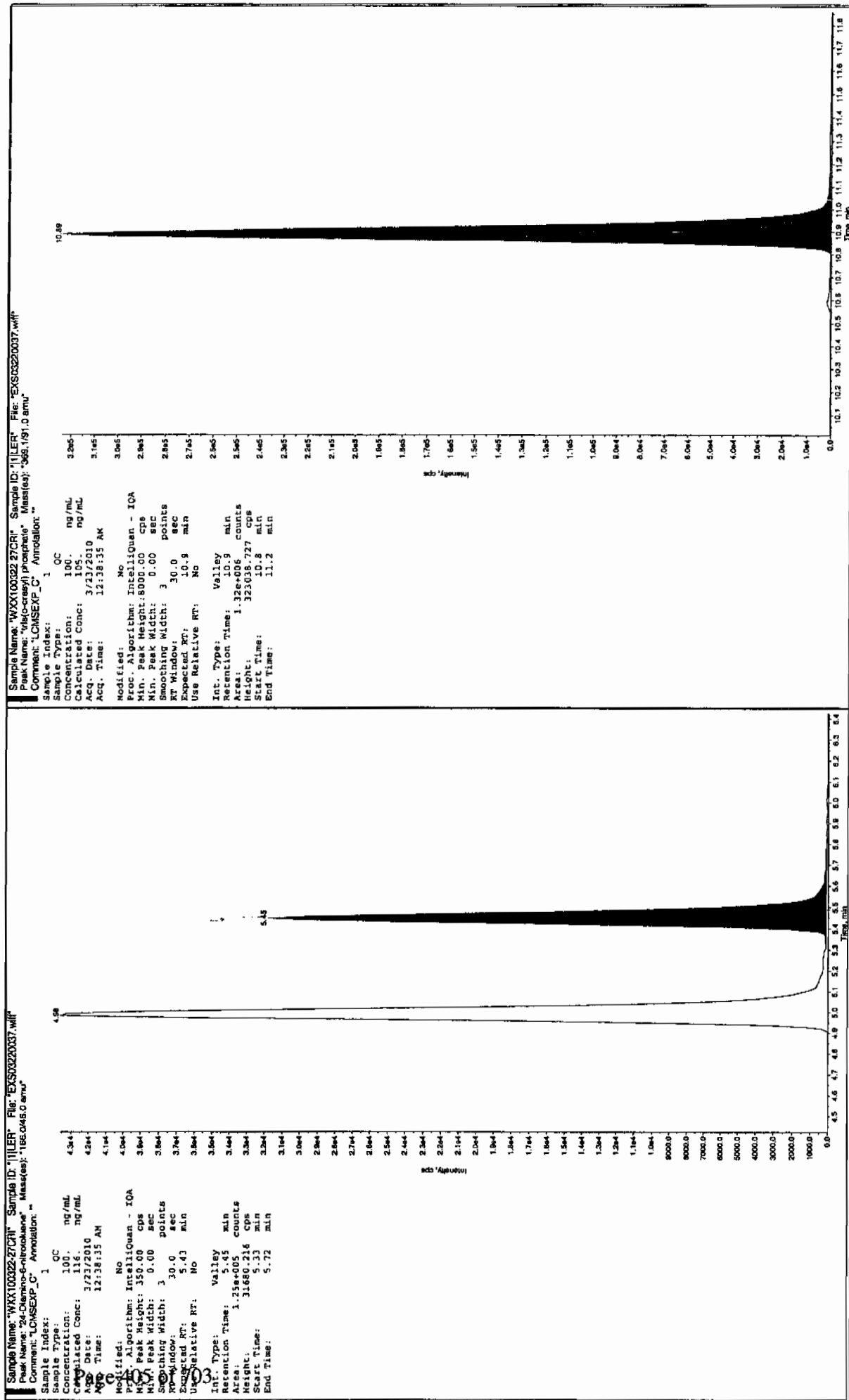
Sample Index: 1
 Sample Type: OC
 Concentration: 100. ng/mL
 Calculated Conc: 107. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:38:35 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.57 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.58 min
 Area: 1.84e+05 counts
 Height: 43562.077 cps
 Start Time: 4.89 min
 End Time: 5.29 min



Sample Name: "WXX100322-2701" Sample ID: "111111" File: "EXS03220037.wif"
 Peak Name: "34-Diaminotoluene" Mass(es): "162.151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: OC
 Concentration: 50.0 ng/mL
 Calculated Conc: 49.8 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 12:38:35 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 5.65e+05 counts
 Height: 163121.326 cps
 Start Time: 8.24 min
 End Time: 8.54 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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
2,6-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	
2,4-Diamino-6-nitrotoluene	500	581	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

GLA 3/27/10

Sample Name: "WXX10032-260CV" Sample ID: "J11ER" File: "EX80322048.wif"

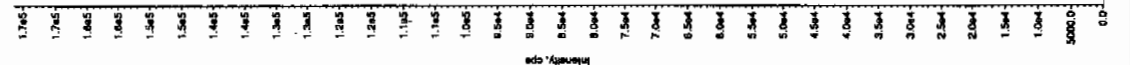
Peak Name: "ATB" Mass(es): "257.2/204.9 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 514. ng/mL
Acq. Date: 3/27/2010
Acq. Time: 3:31:32 AM
Modified: NO
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 6.93 min
Use Relative RT: NO

Int. Type: Valley
Retention Time: 6.97 min
Area: 7.52e+005 counts
Height: 17136.057 cps
Start Time: 6.71 min
End Time: 7.71 min



Sample Name: "WXX10032-260CV" Sample ID: "J11ER" File: "EX80322048.wif"

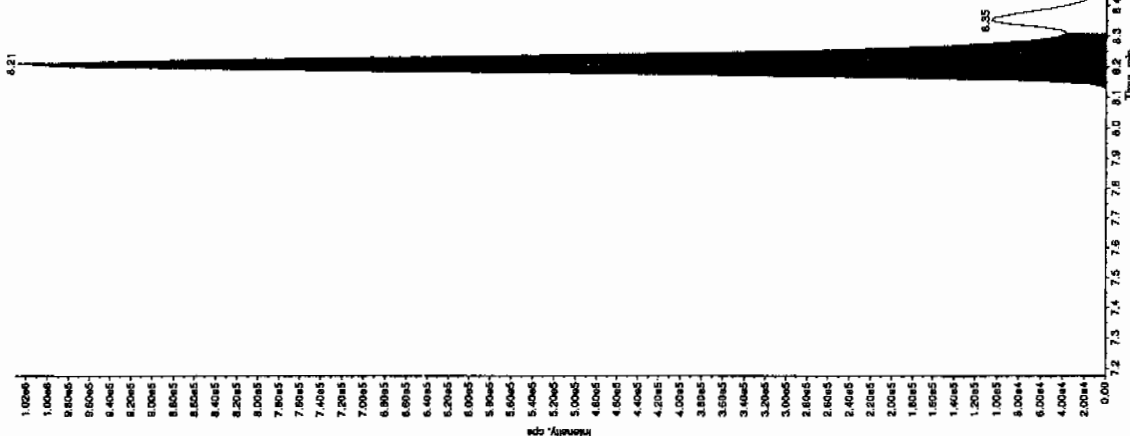
Peak Name: "35-Dinitrophenol" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

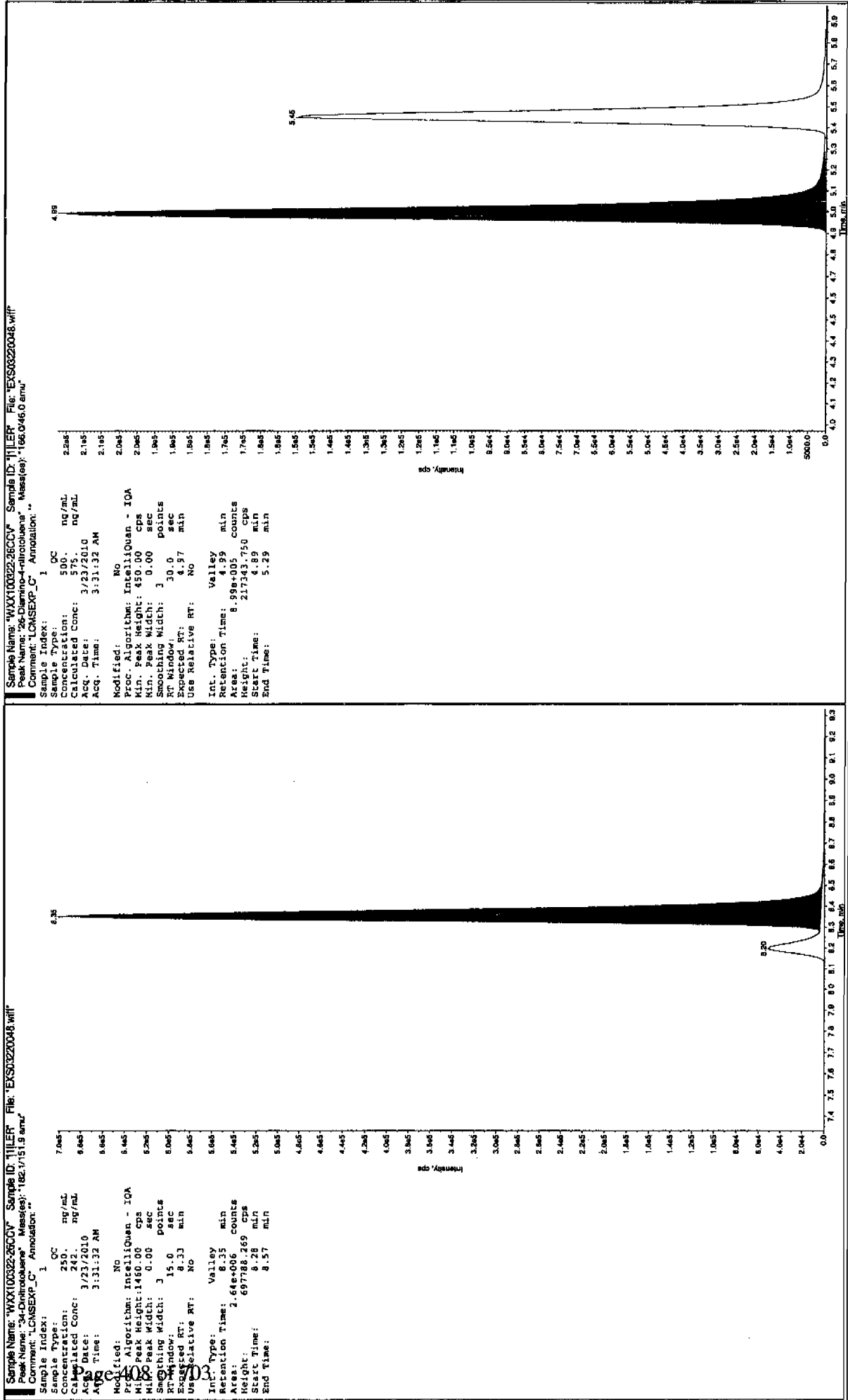
Sample Index: 1

Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 530. ng/mL
Acq. Date: 3/27/2010
Acq. Time: 3:31:32 AM
Modified: NO
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.17 min
Use Relative RT: NO

Int. Type: Valley
Retention Time: 8.21 min
Area: 4.15e+006 counts
Height: 1029437.376 cps
Start Time: 8.11 min
End Time: 8.31 min

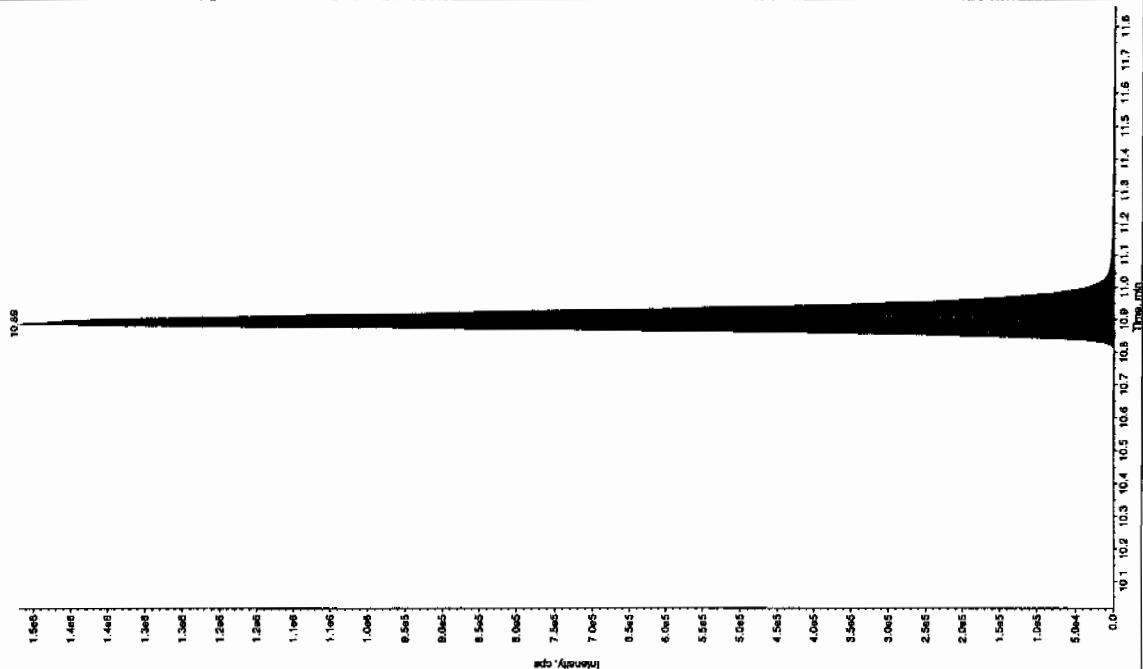


449K 03/29/10



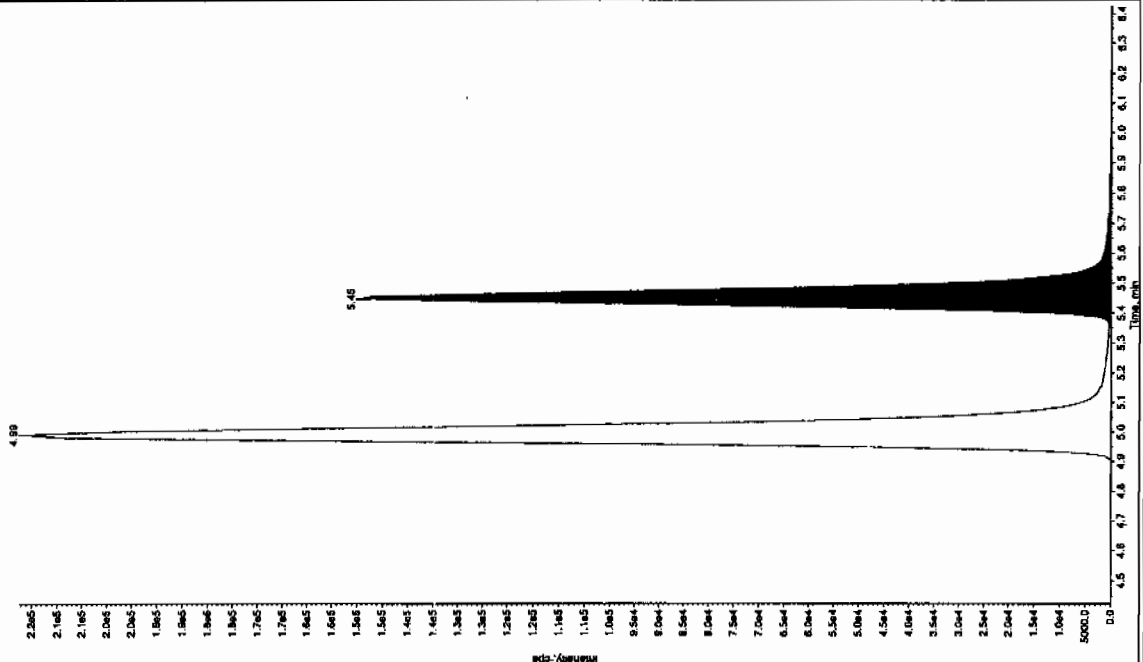
Sample Name: "WXX100322-26CCV" Sample ID: "J11ER" File: "EVS03220048.wif"
 Peak Name: "LCSMSEXP_01" Annotation: "Mass(es): 355.191.0 amu"

Sample Index: 1 QC
 Concentration: 500 ng/mL
 Calculated Conc: 496 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:31:32 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
 Height: 6.07e+006 counts
 Weight: 1467412.106 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100322-26CCV" Sample ID: "J11ER" File: "EVS03220048.wif"
 Peak Name: "LCSMSEXP_01" Annotation: "Mass(es): 186.046.0 amu"

Sample Index: 1 QC
 Concentration: 500 ng/mL
 Calculated Conc: 581 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:31:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Height: 6.00e+005 counts
 Weight: 149063.327 cps
 Start Time: 5.35 min
 End Time: 5.88 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220050.wiff

Analysis Date: 23-MAR-10 04:02

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

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

Recovery Limits:

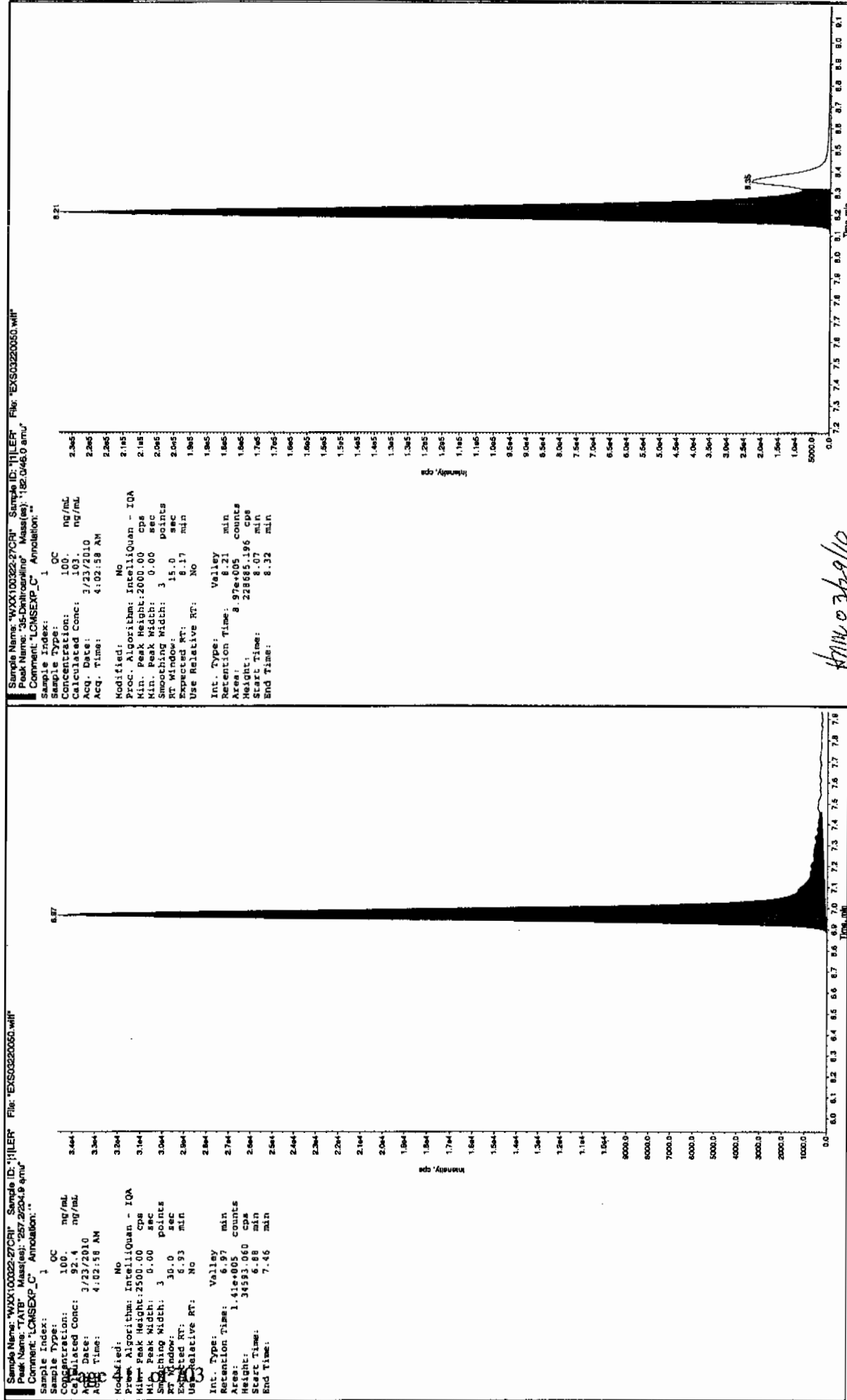
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

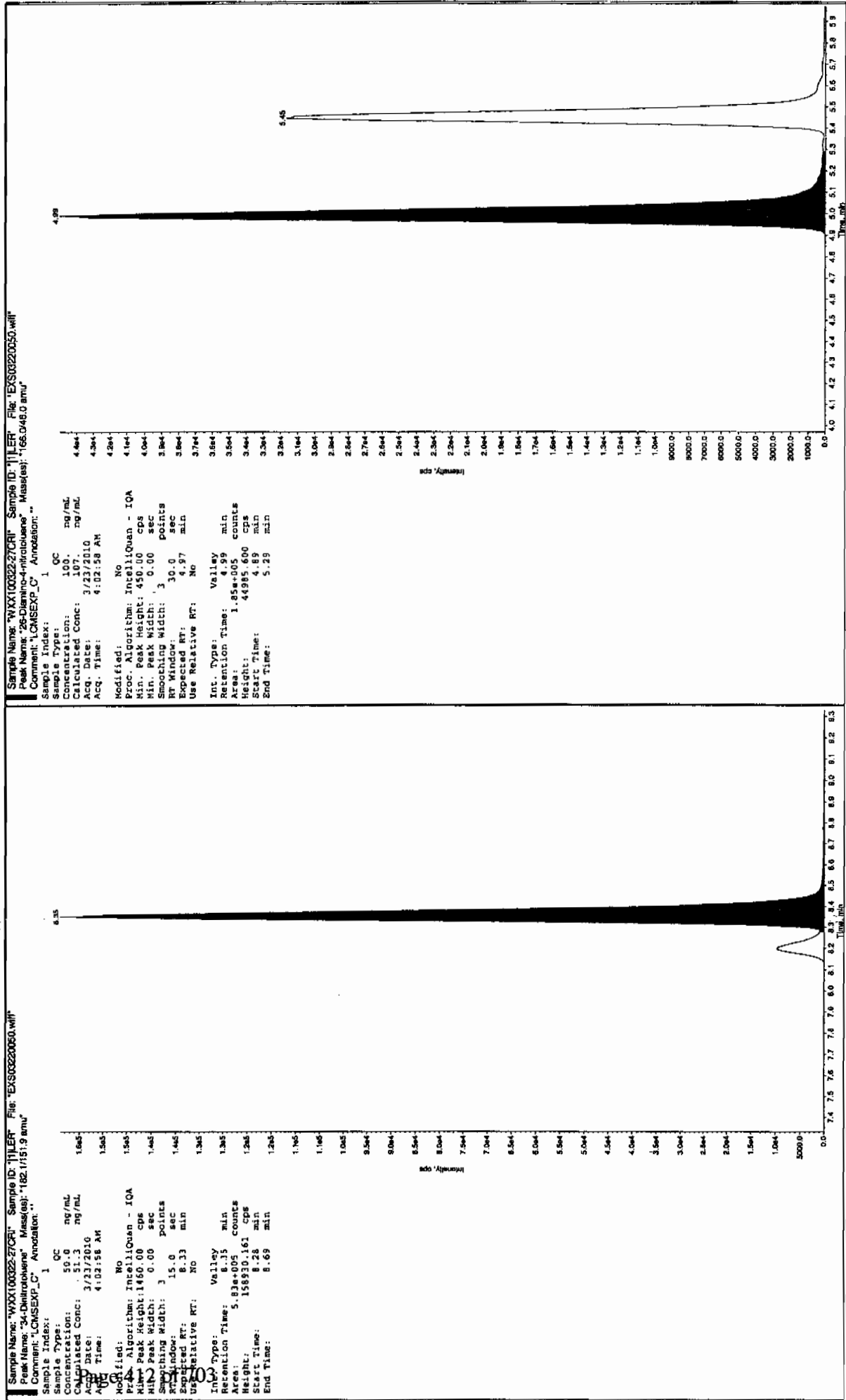
Column used to flag Recovery outside of Limits

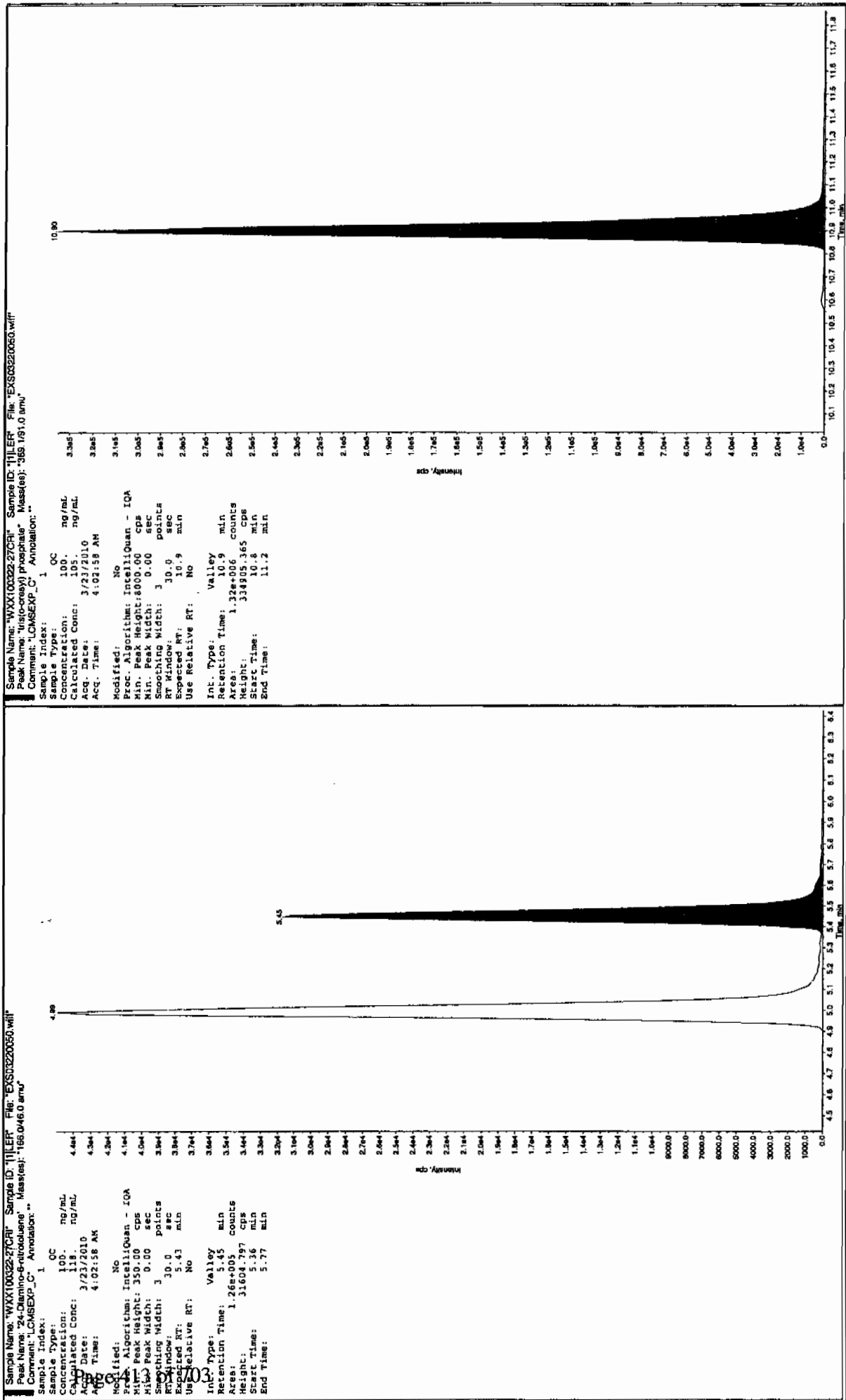
* Value outside of Recovery Limits

lan 3/27/10



lan 3/27/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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:

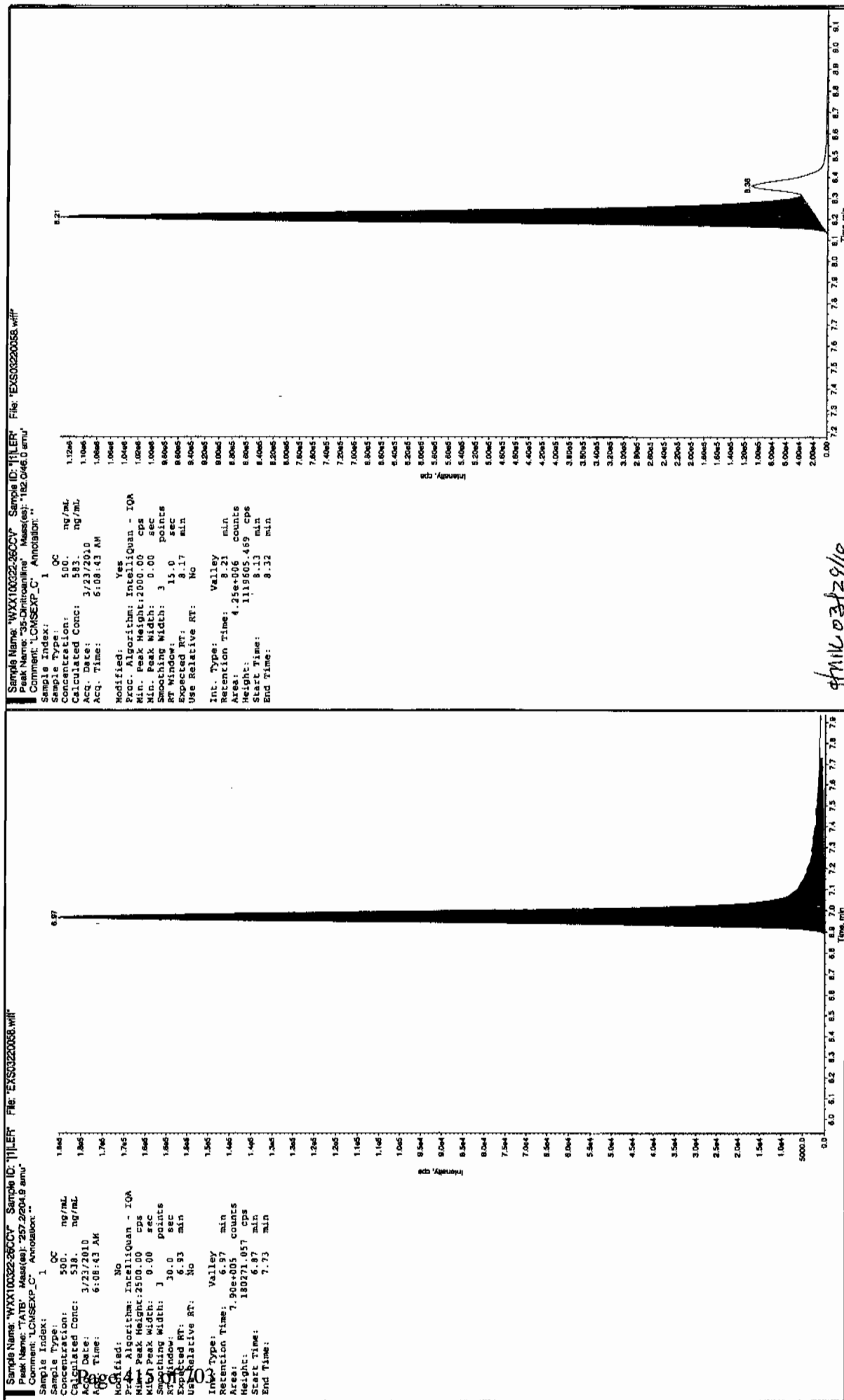
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

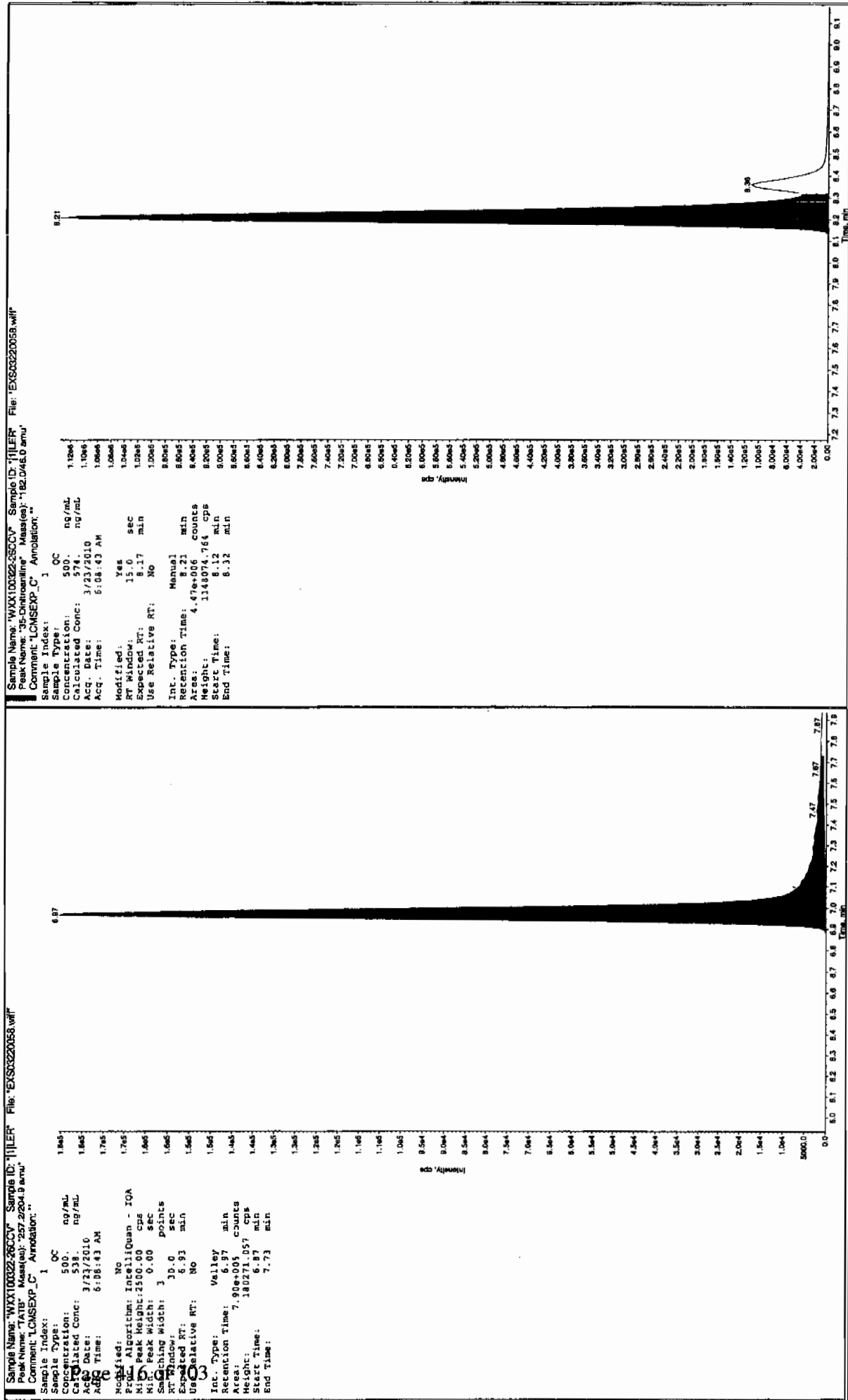
* Value outside of Recovery Limits

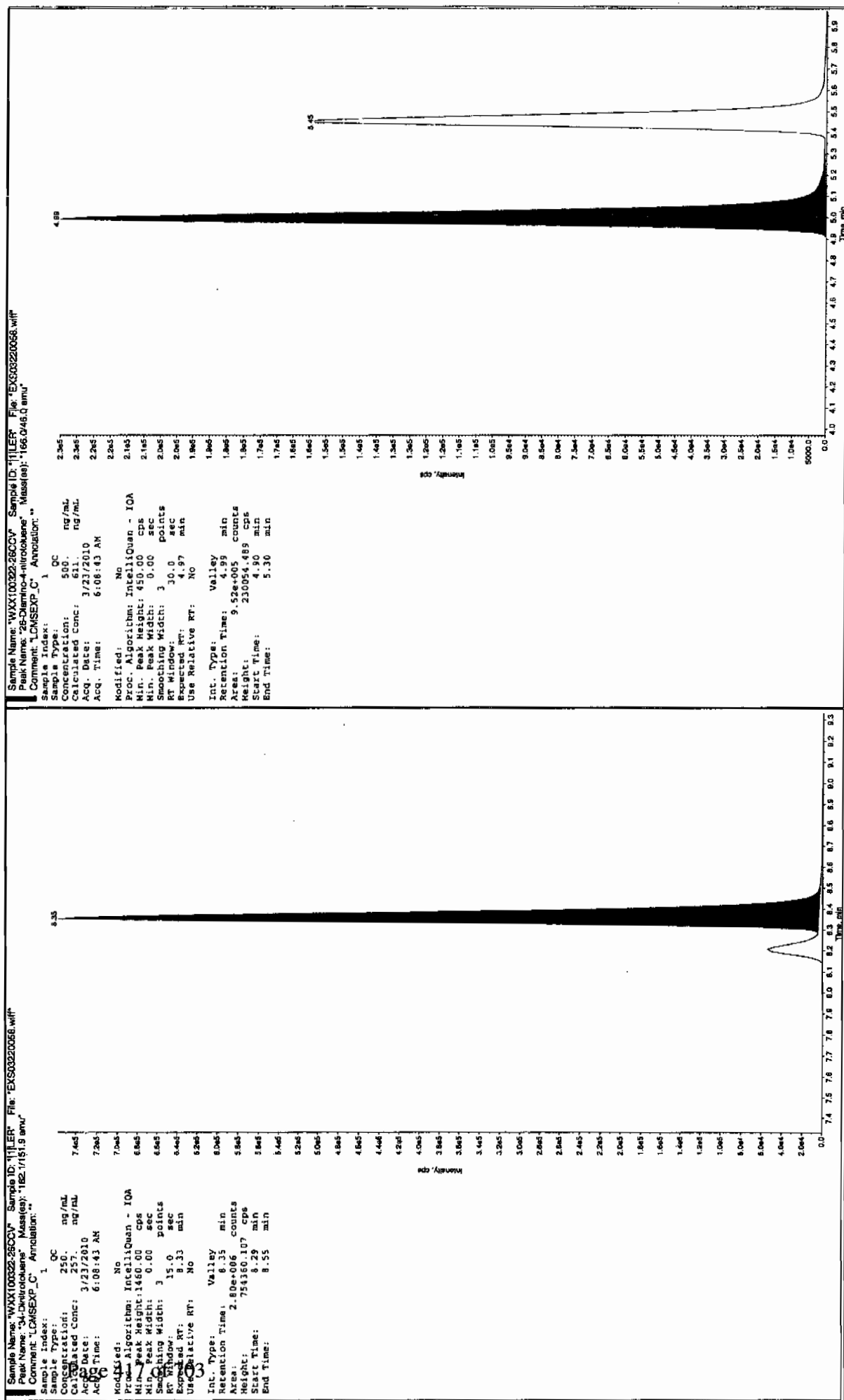
Before Jan 3/27/10

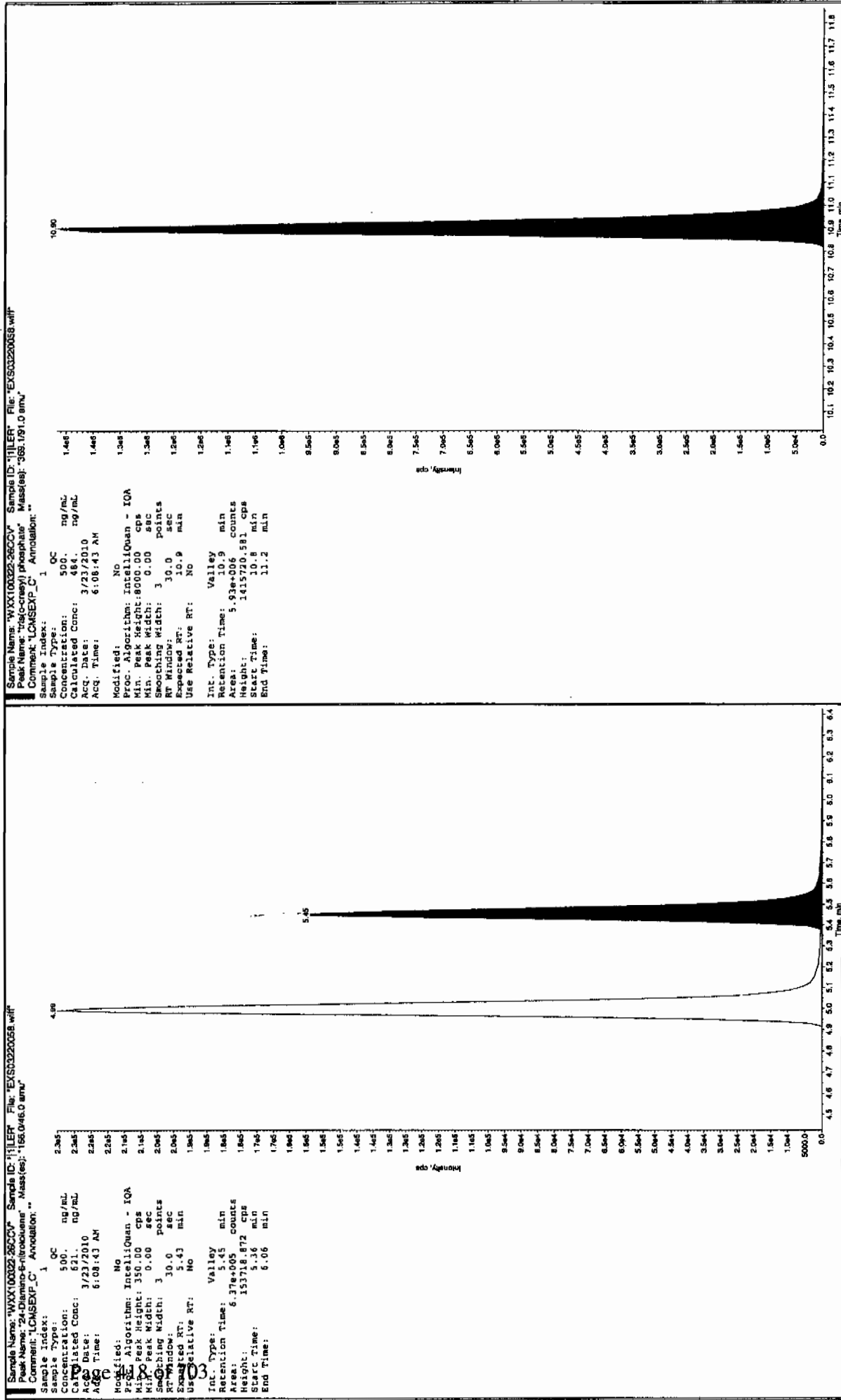


Jan 03/29/10

after Jan 31/2010







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03220060.wiff

Analysis Date: 23-MAR-10 06:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	112	112	
2,6-Diamino-4-nitrotoluene	100	98.9	99	
3,4-Dinitrotoluene	50	51.6	103	
3,5-Dinitroaniline	100	104	104	
TATB	100	98.4	98	
tris(o-cresyl) phosphate	100	105	105	

Recovery Limits:

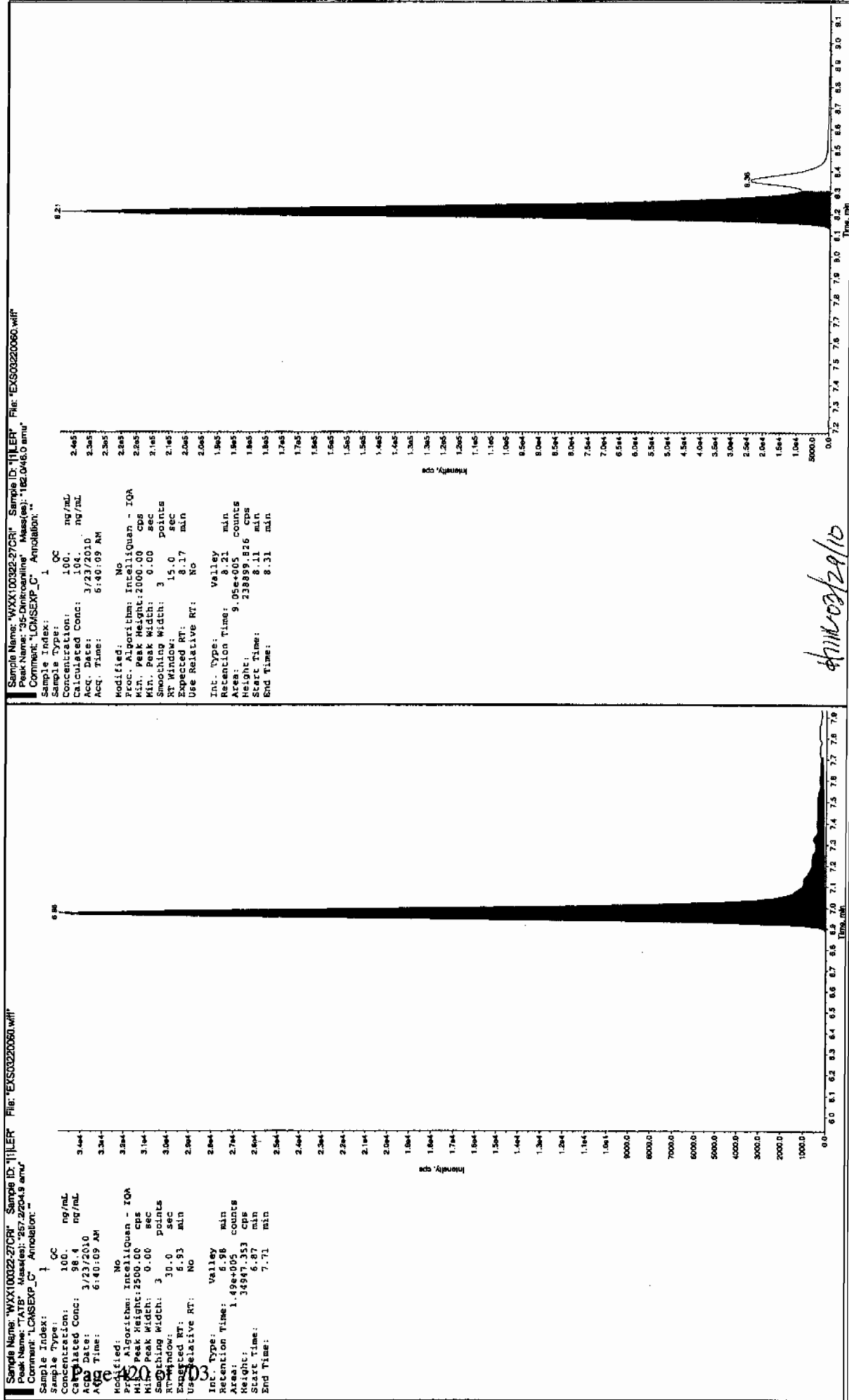
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

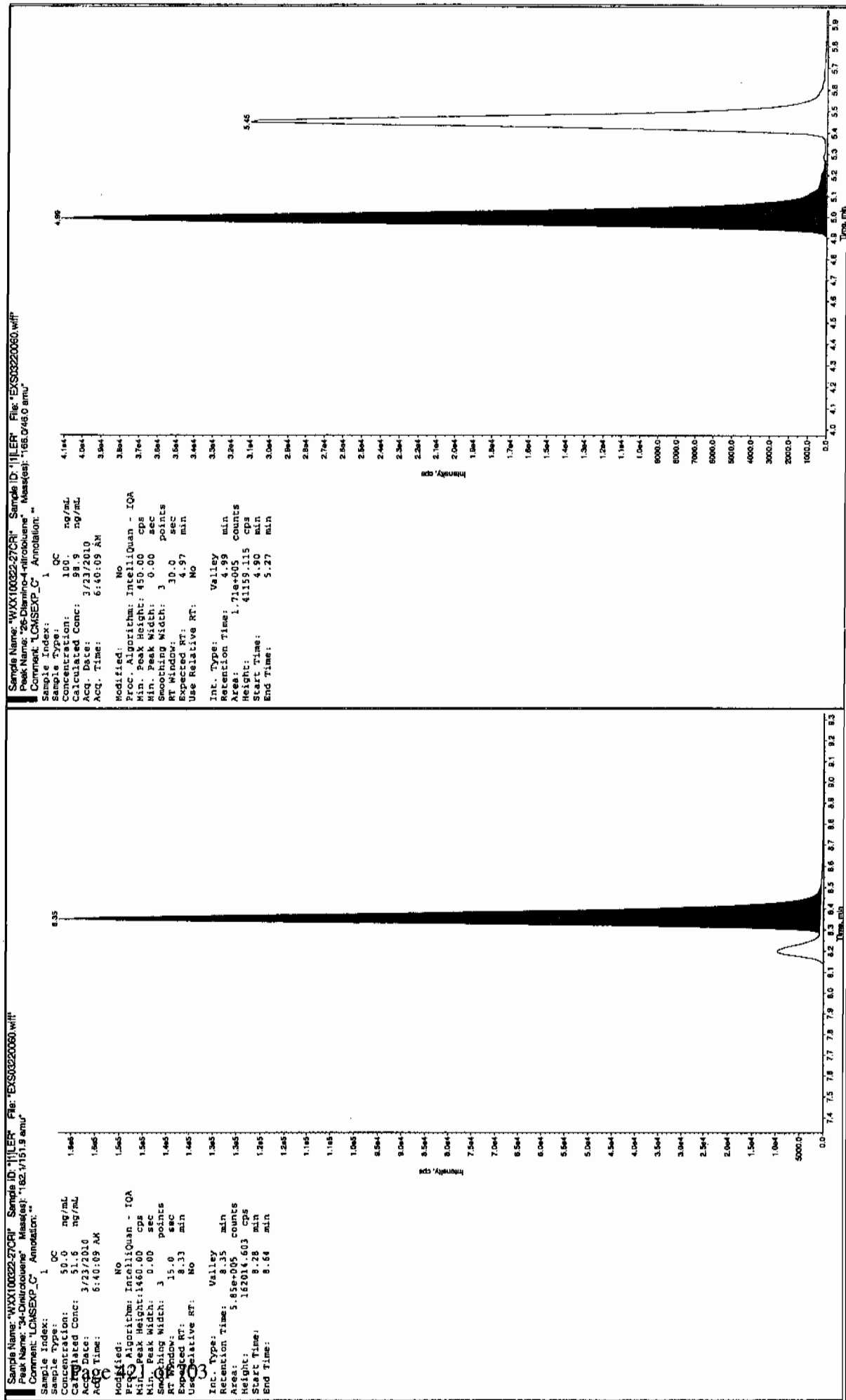
Other Target Analytes 70-130%

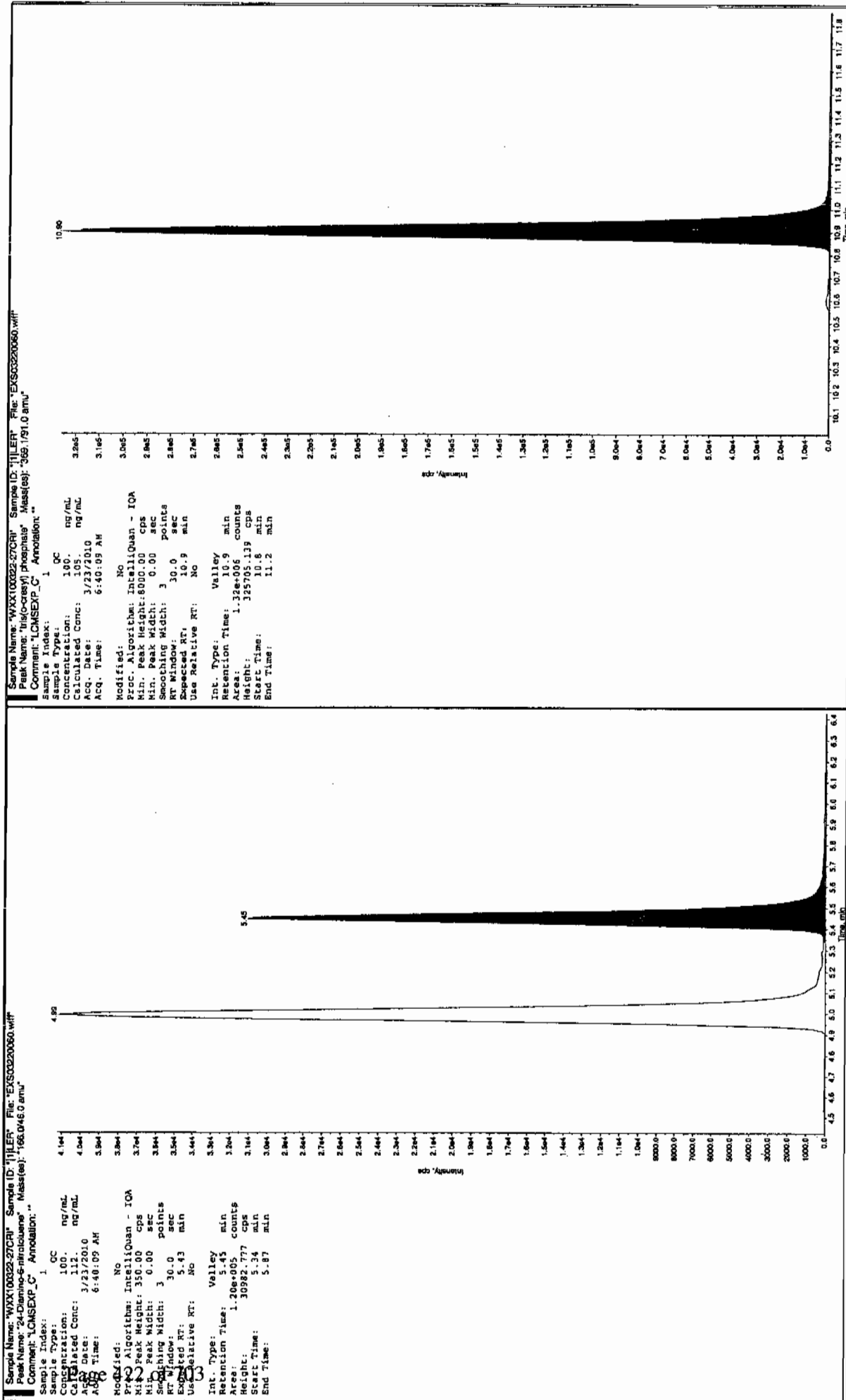
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

LC# 312710







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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:

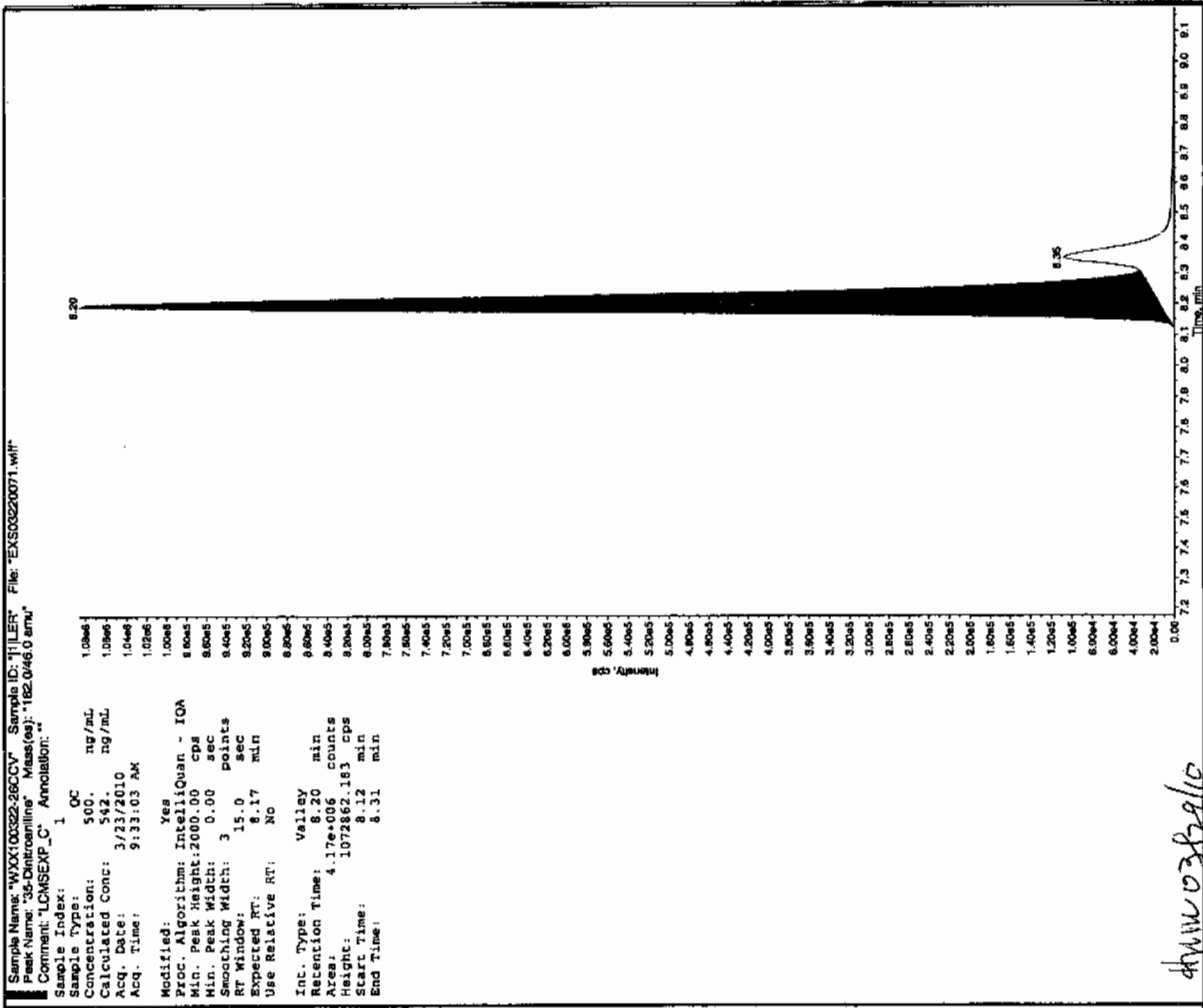
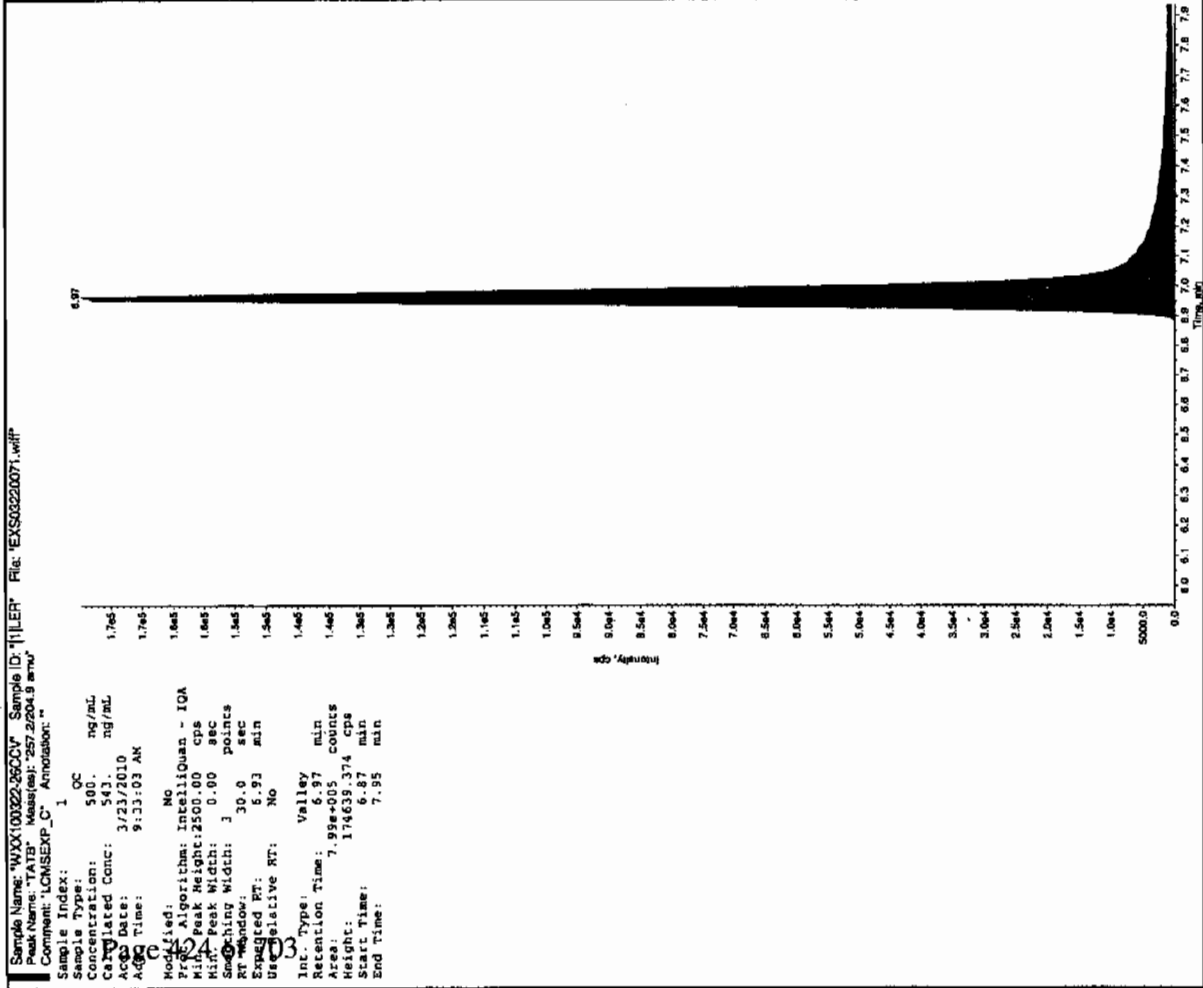
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

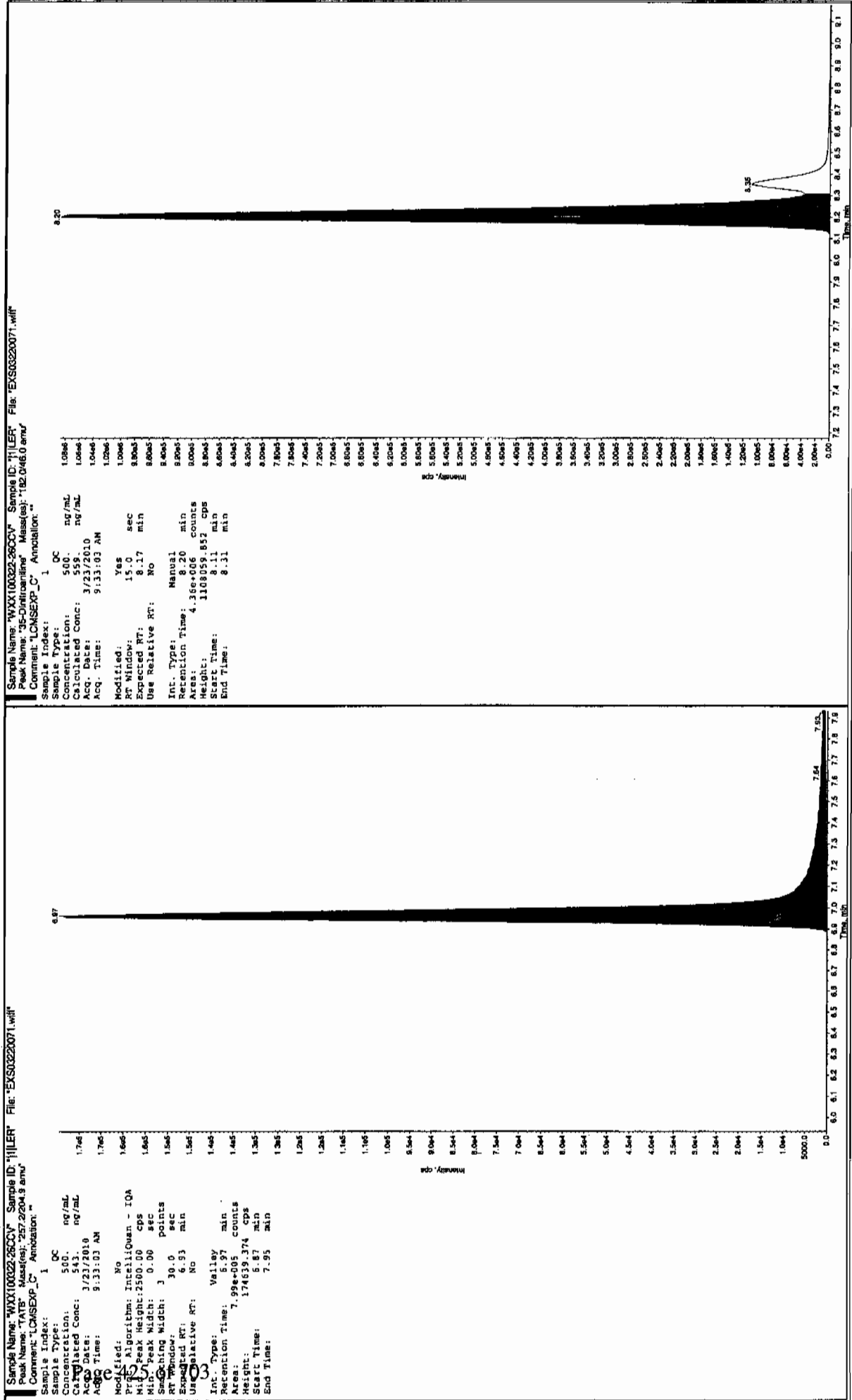
Before Ran 3/27/10

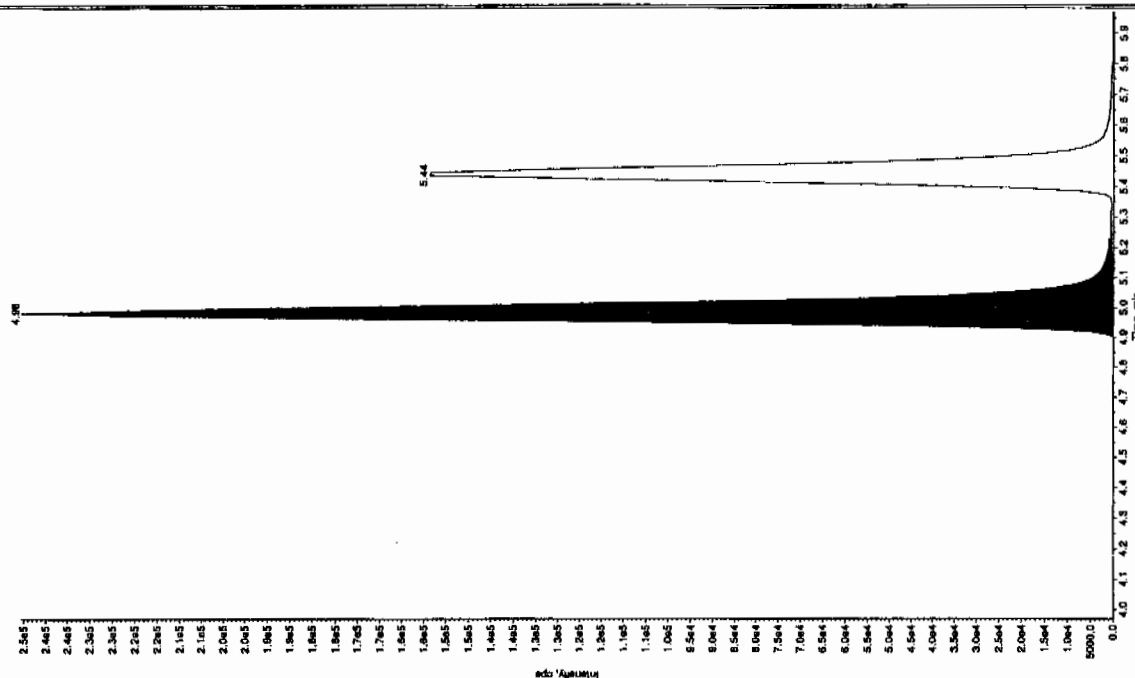


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

4/11/10 03:28:10

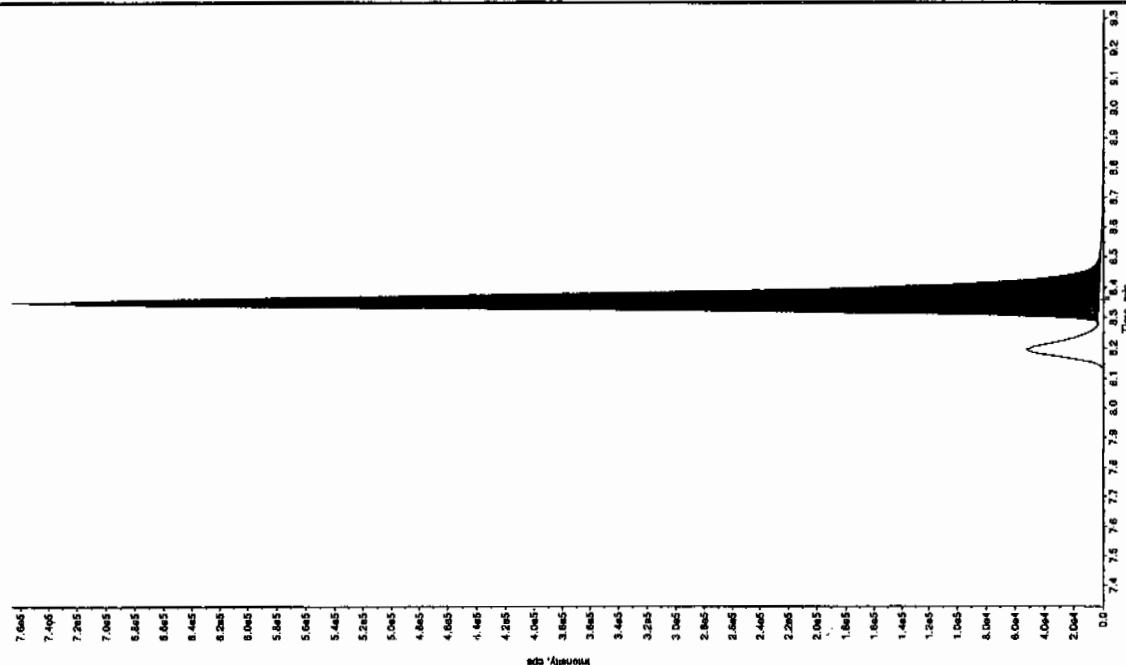
after Jan 3/23/10



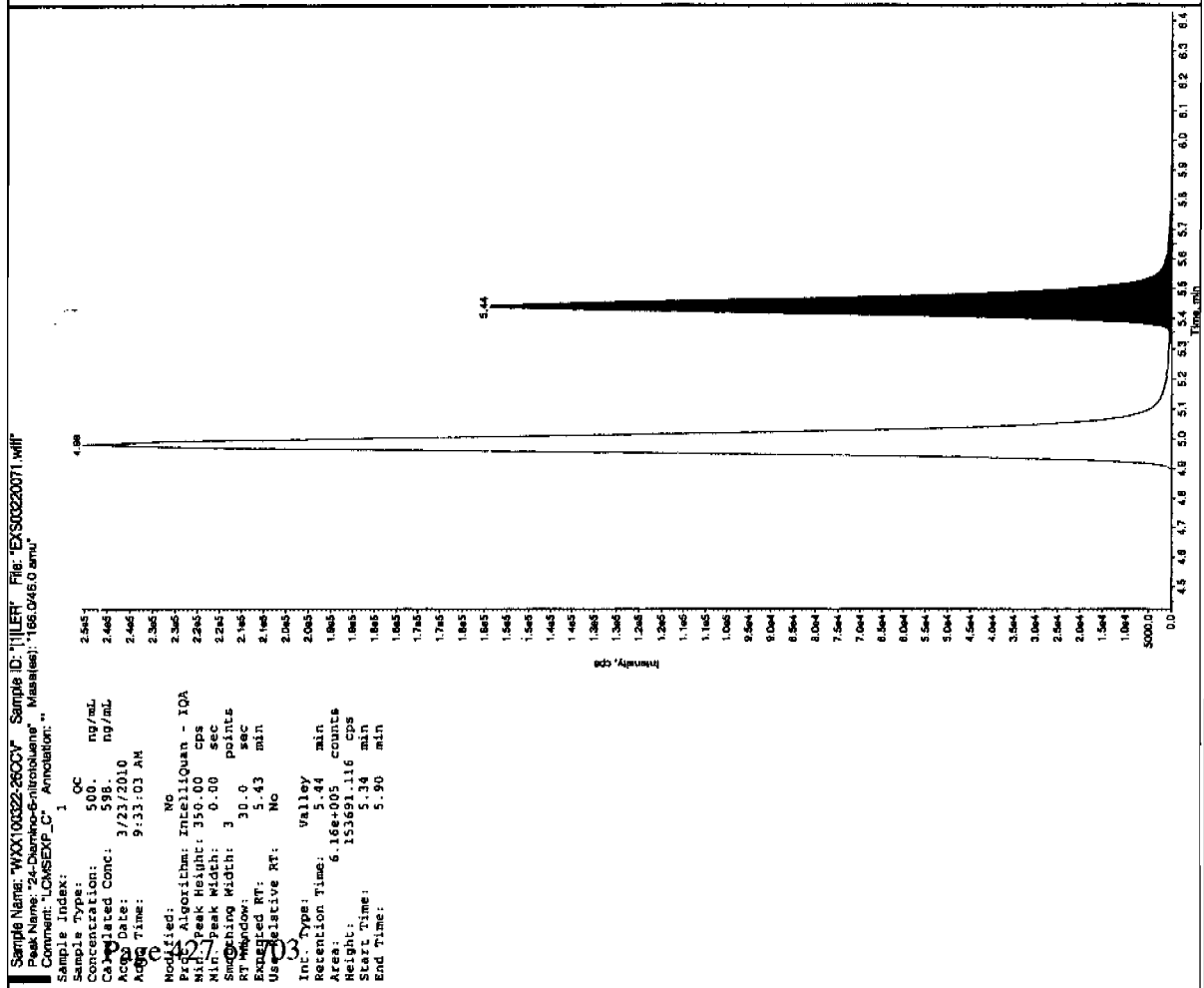
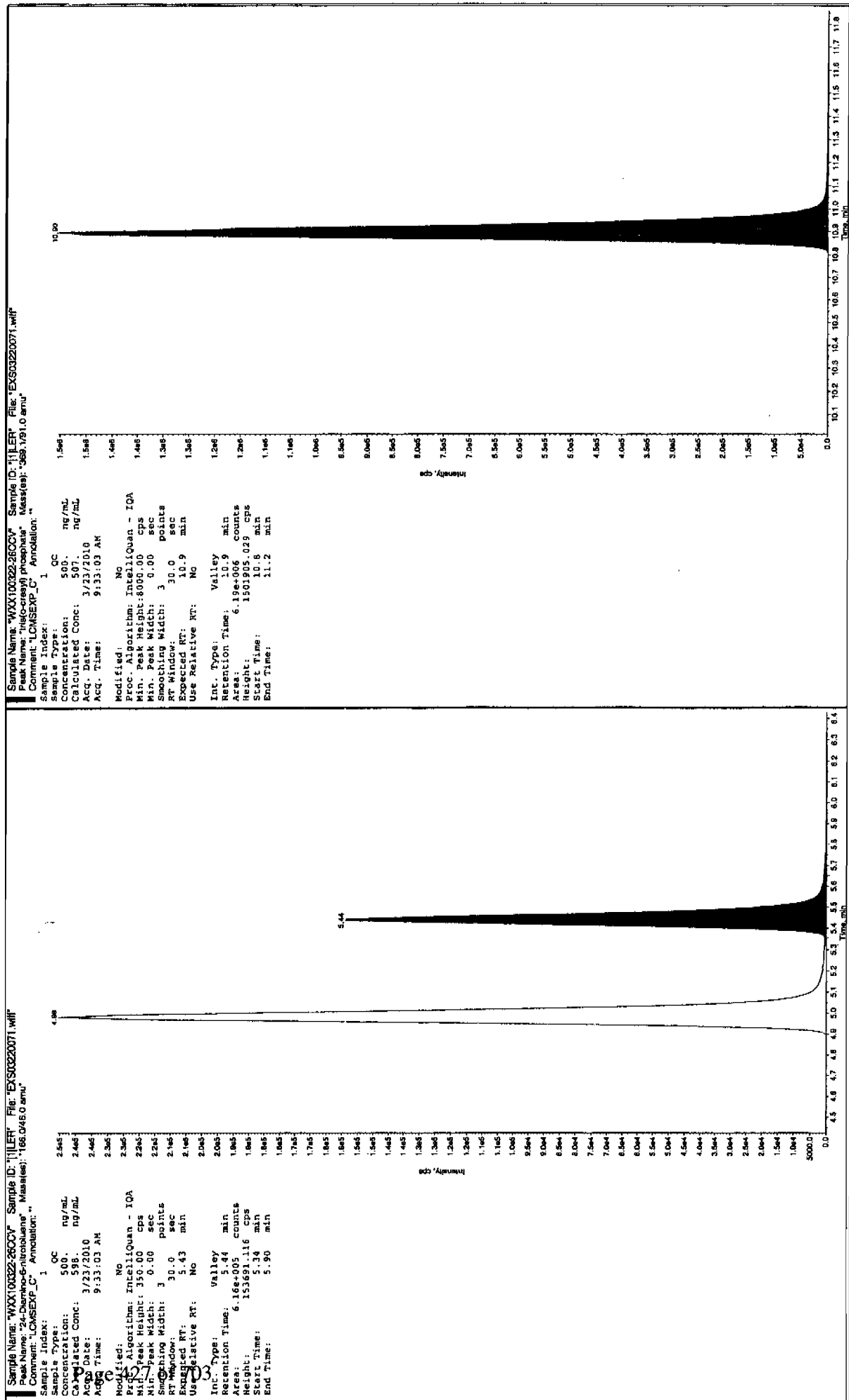


Sample Index:	1	QC	254
Concentration:	500	ng/mL	254
Calculated Conc:	539	ng/mL	254
Acq. Date:	3/23/2020		254
Acq. Time:	9:33:03 AM		254
Modified:	No		254
Method:	Integrator: IntQuan - IQA		254
Injection Volume:	450.00	µL	254
Peak Width:	3.00	sec	254
Smoothing Width:	30.0	sec	254
RT Window:	4.97	min	254
Expected RT:	No		254
Relative RT:			254
Int. Type:	Valley		254
Retention Time:	9.9246	min	194
Height:	248442	counts	194
Area:	4.88	min	194
Start Time:	5.78	min	194
End Time:			194

Sample Name: "WXX100322-26CCV" Sample ID: "11LER" File: "EXS03220071.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182 1/151.9 amu"
Comment: "LCMSEXP C" Annotation: ""



Sample Index:	1	QC
Sample Type:		
Concentration:	250	ng/mL
Calculated Conc:	255	ng/mL
Acq Date:	3/23/2010	
Acq Time:	9:33:03 AM	
Modified:	NO	NO
Algorithm:	Int:Quan - IQA	
Int:Peak Width:	1.600 sec	
Int:Peak Width:	0.00 sec	
Smoothing Width:	15.0 sec	
Int:Window:	NO	
Expected RT:	8.33 min	
Relative RT:	NO	
Int: Type:	Valley	
Retention Time:	2.78e+05	min
Height:	7.62e59	counts
Width:	8.28 min	
Start Time:	8.57 min	
End Time:		



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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
3,5-Dinitroaniline	100	111	111	
TATB	100	101	101	
tris(o-cresyl) phosphate	100	107	107	
2,4-Diamino-6-nitrotoluene	100	119	119	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	52.8	106	

Recovery Limits:

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

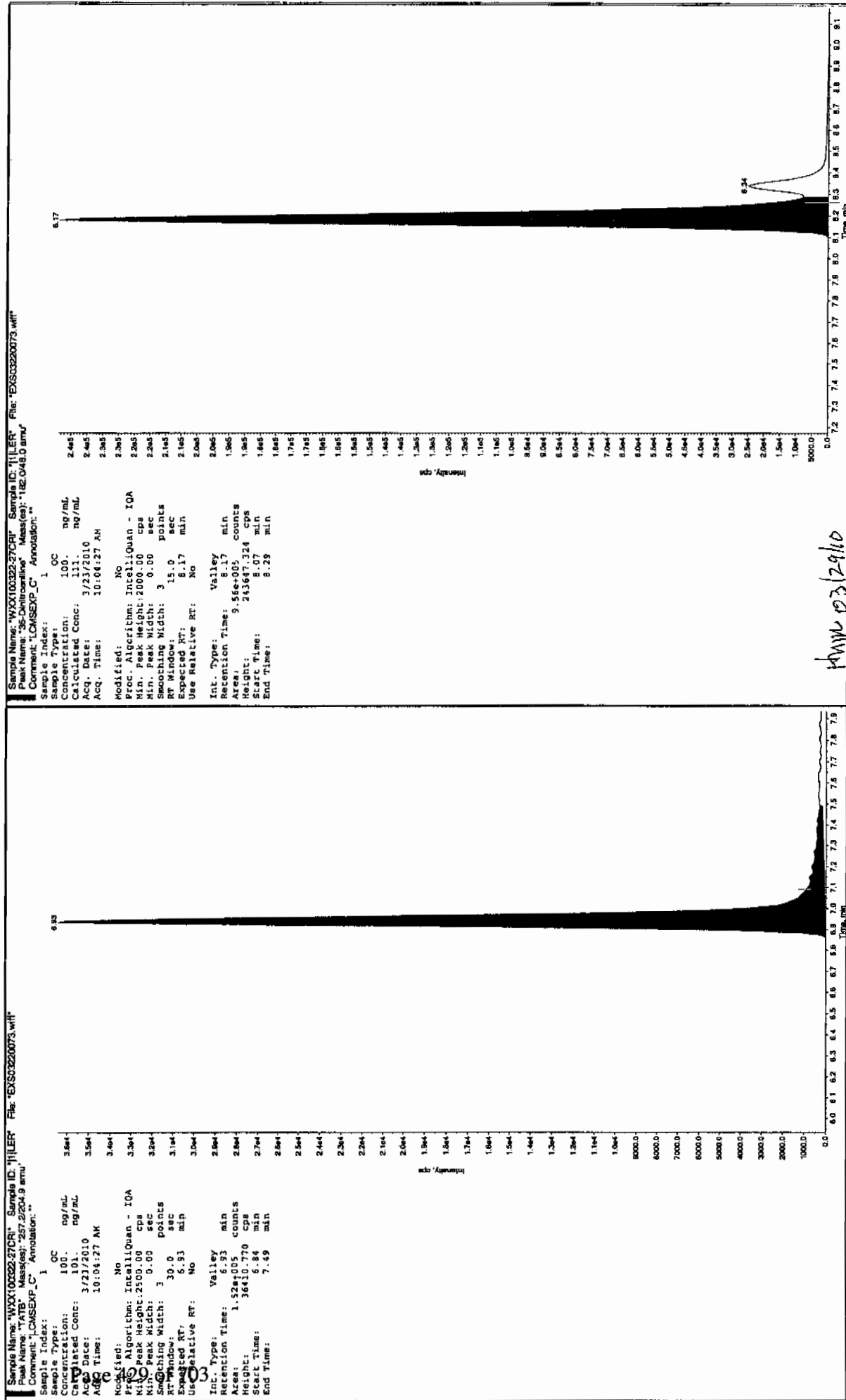
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

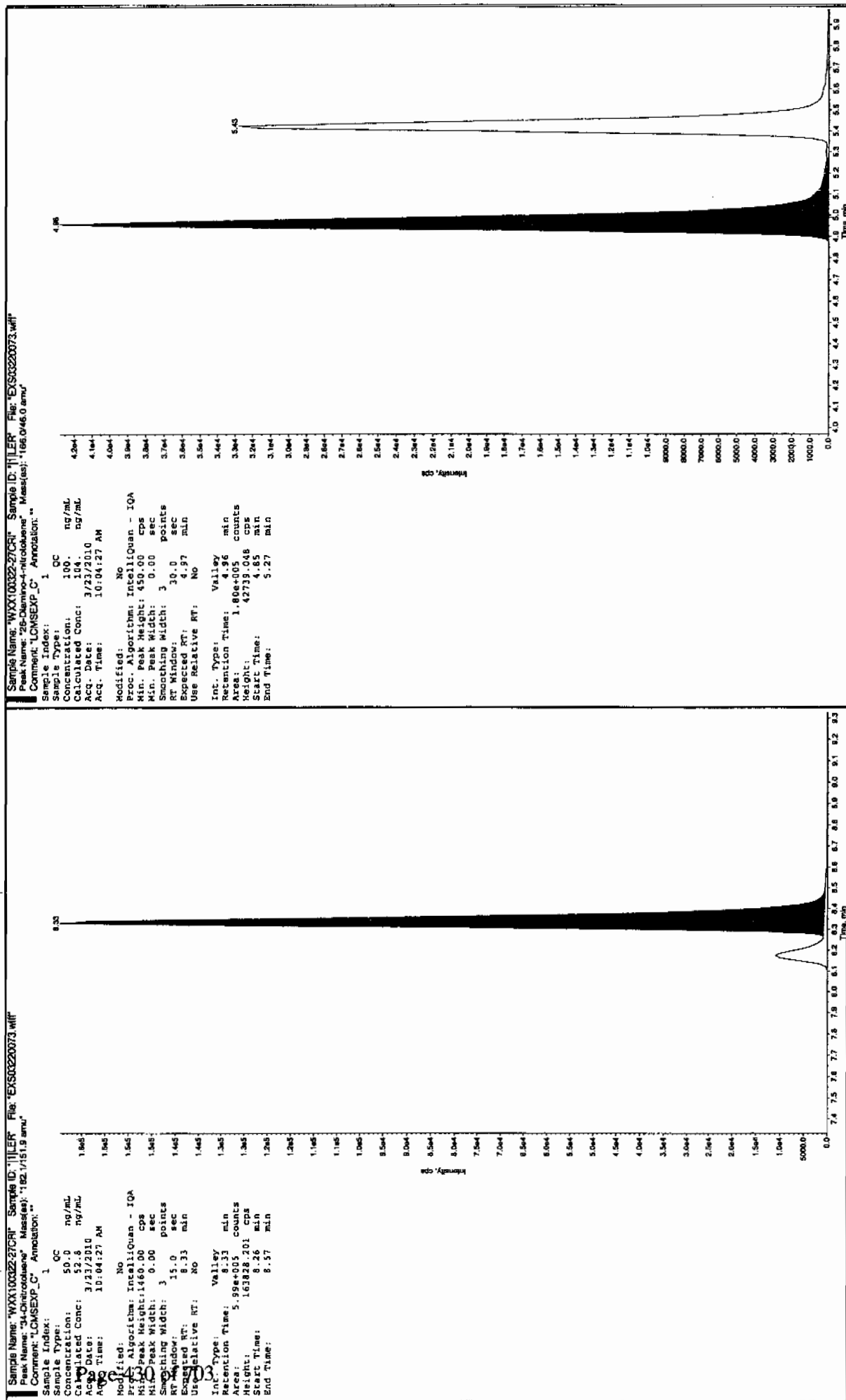
Column used to flag Recovery outside of Limits

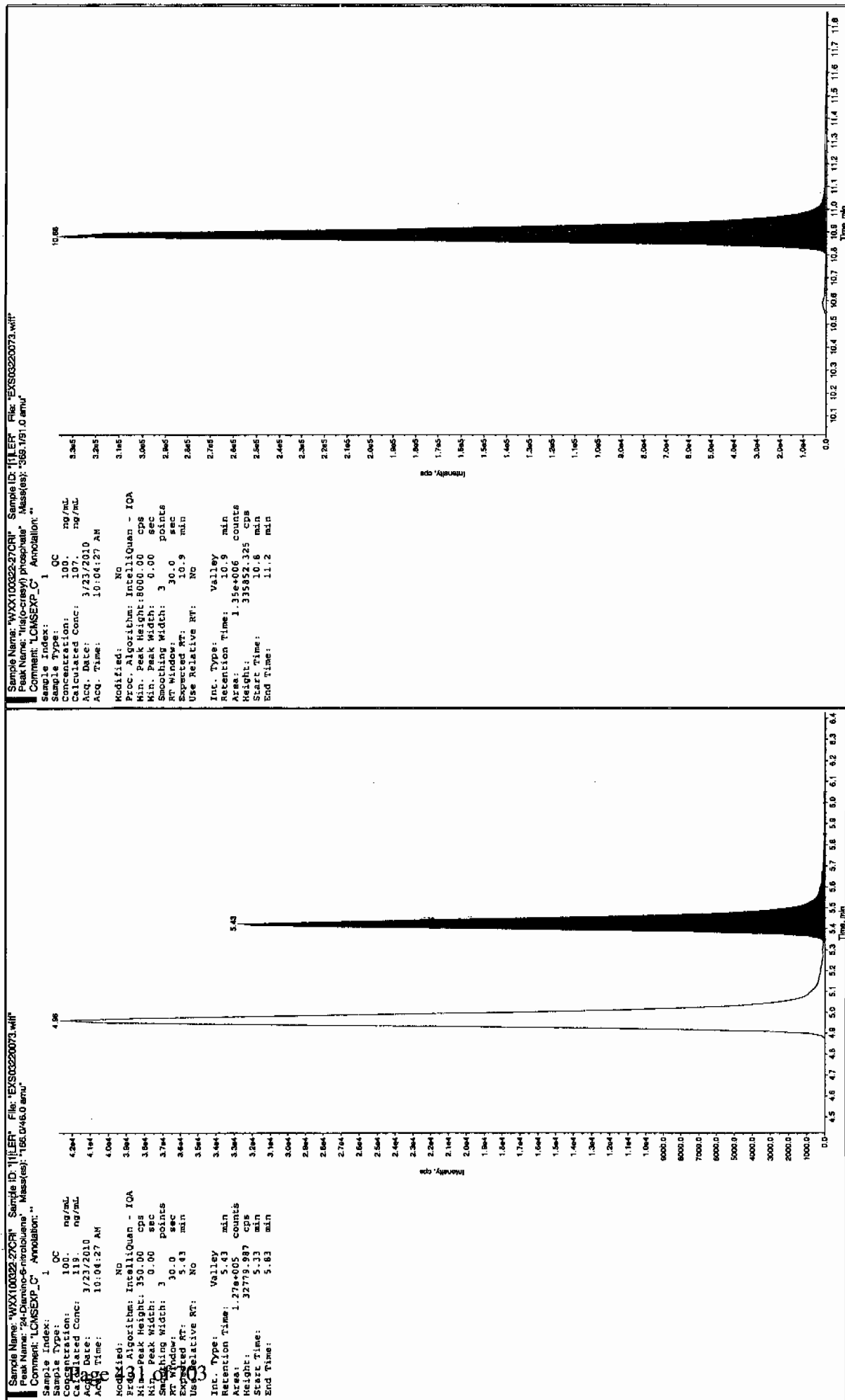
* Value outside of Recovery Limits

800 3/23/10



800 3/23/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03220084.wiff

Analysis Date: 23-MAR-10 12:58

LCMSMS ID: 1358

Column ID: Sphere 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:

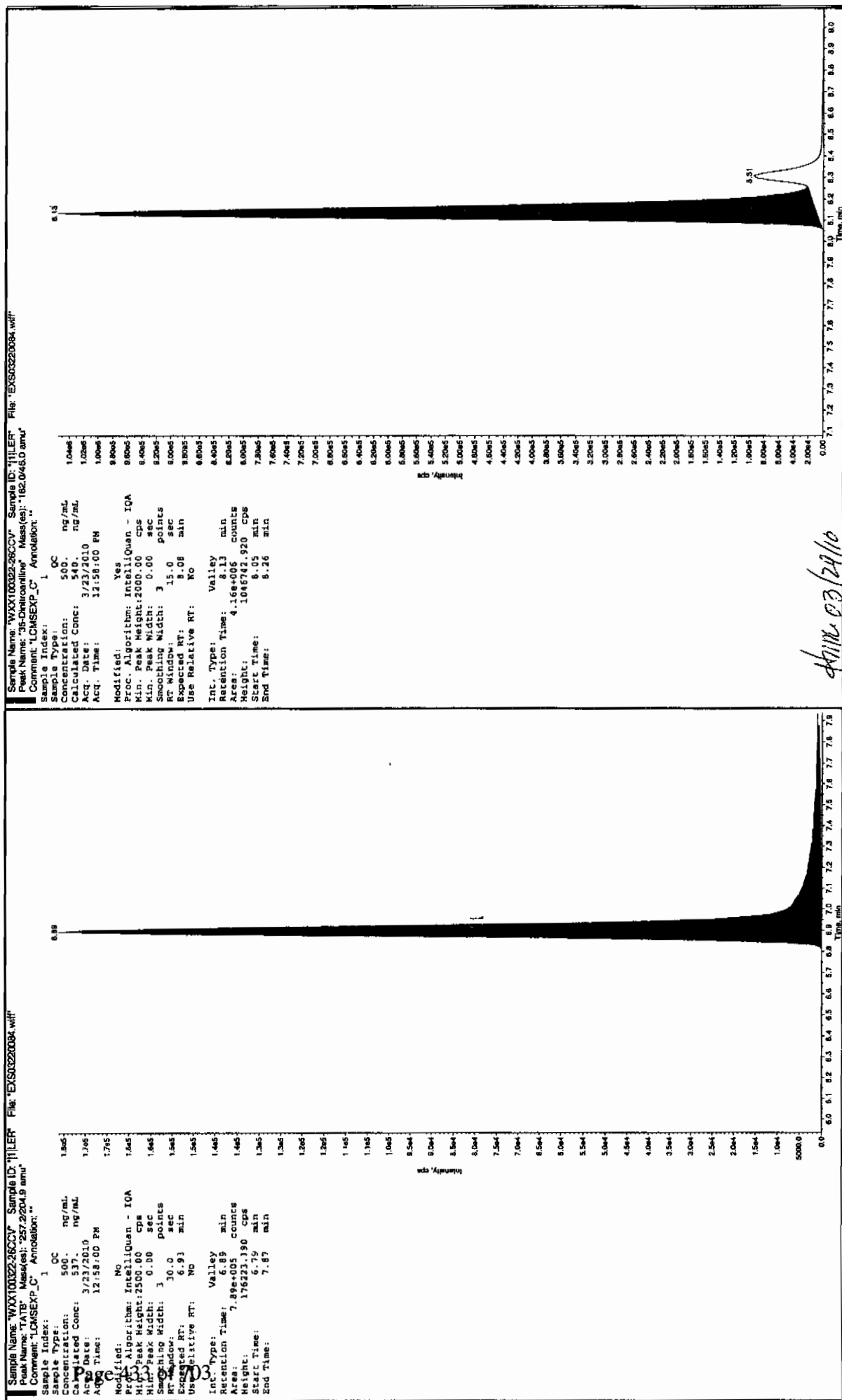
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

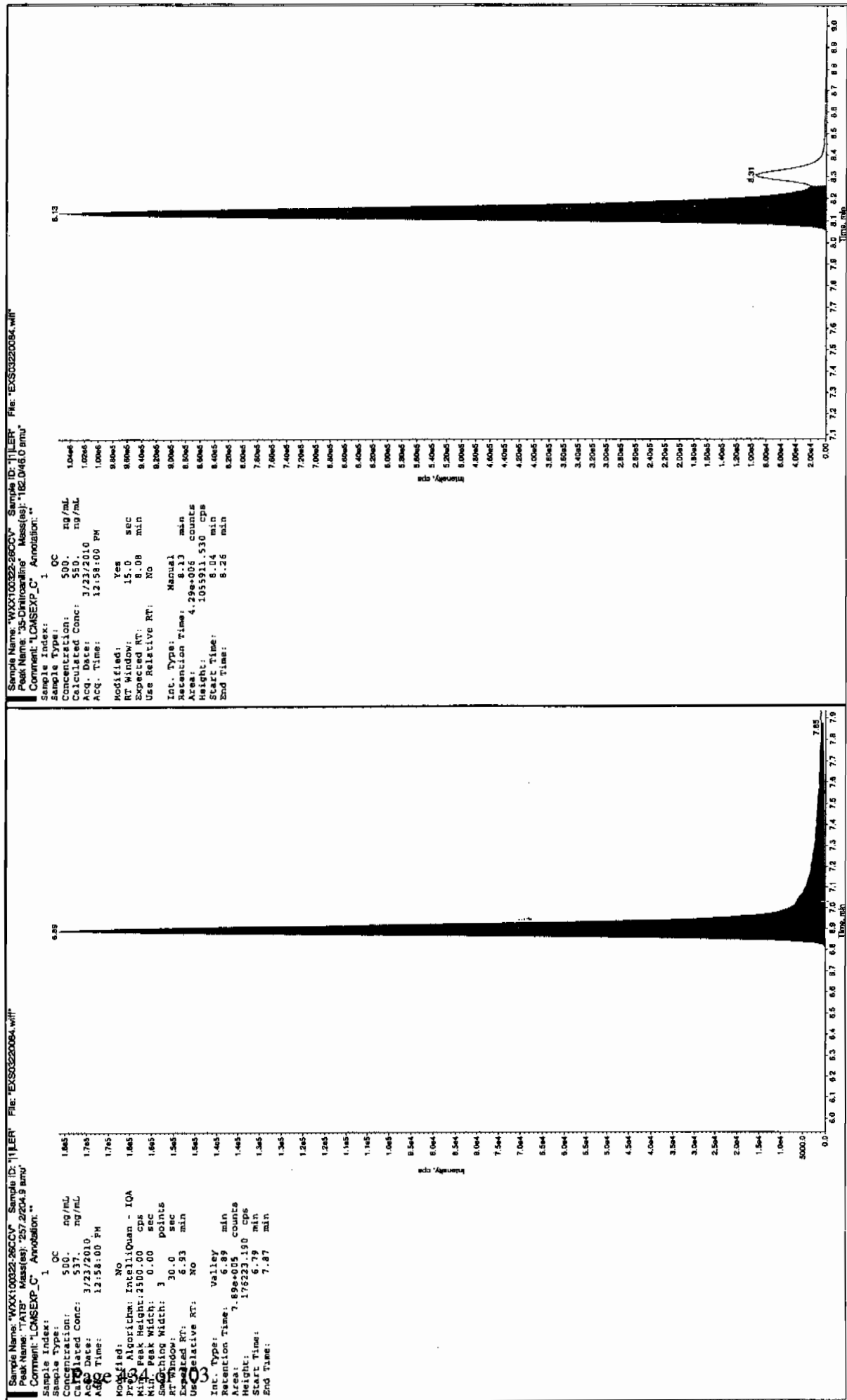
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

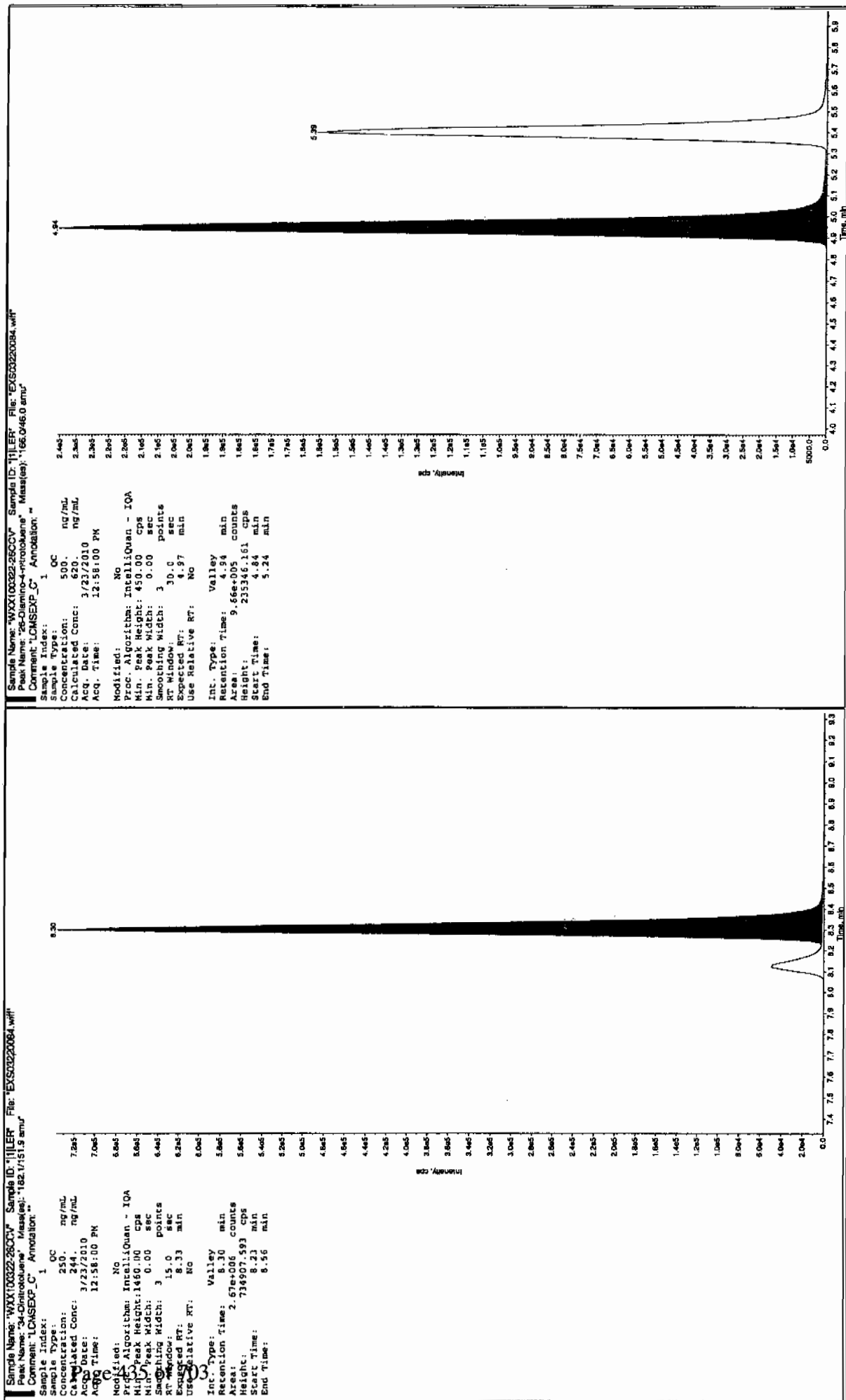
Before Jan 31/20

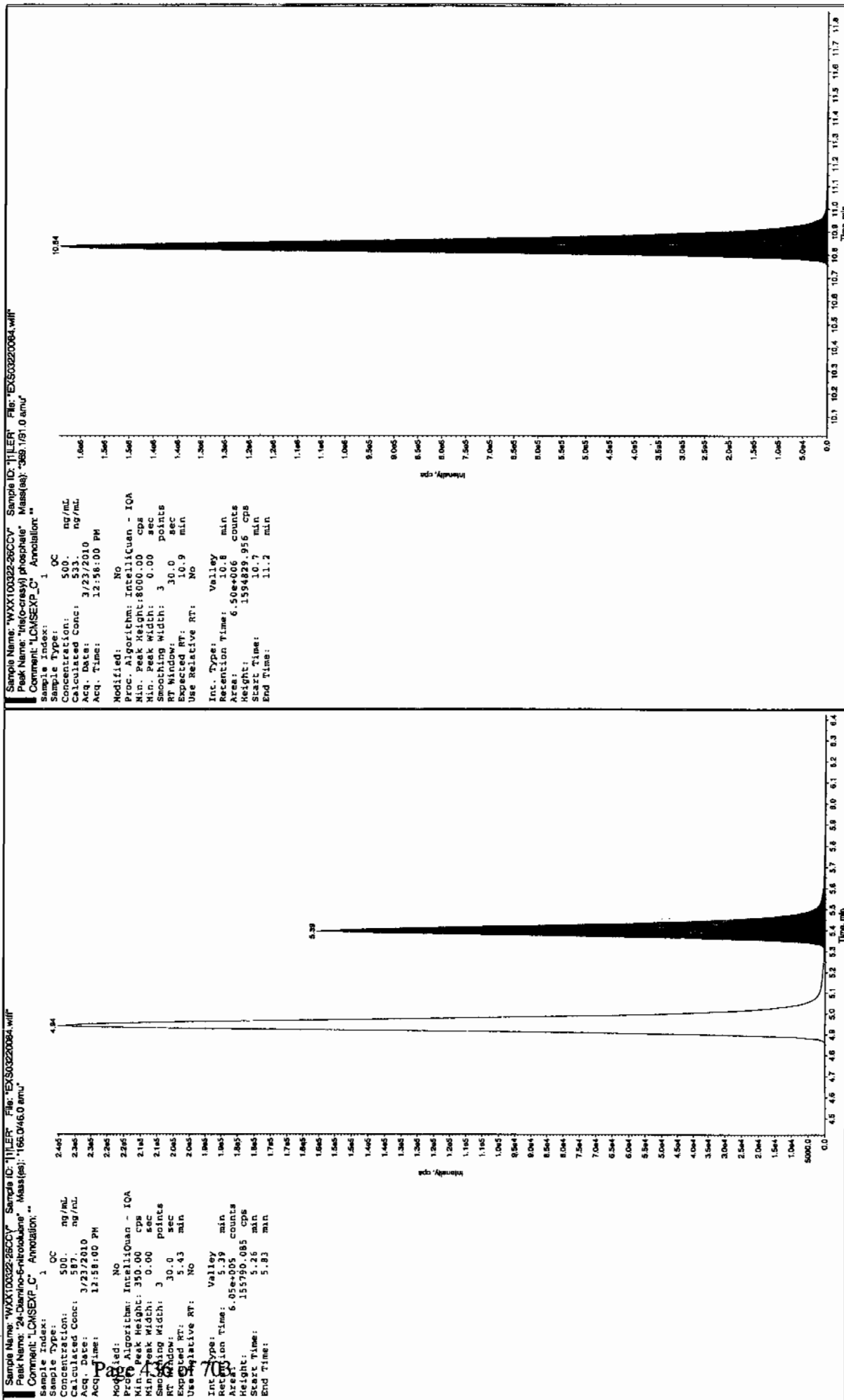


after scan 3/27/10



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





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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:

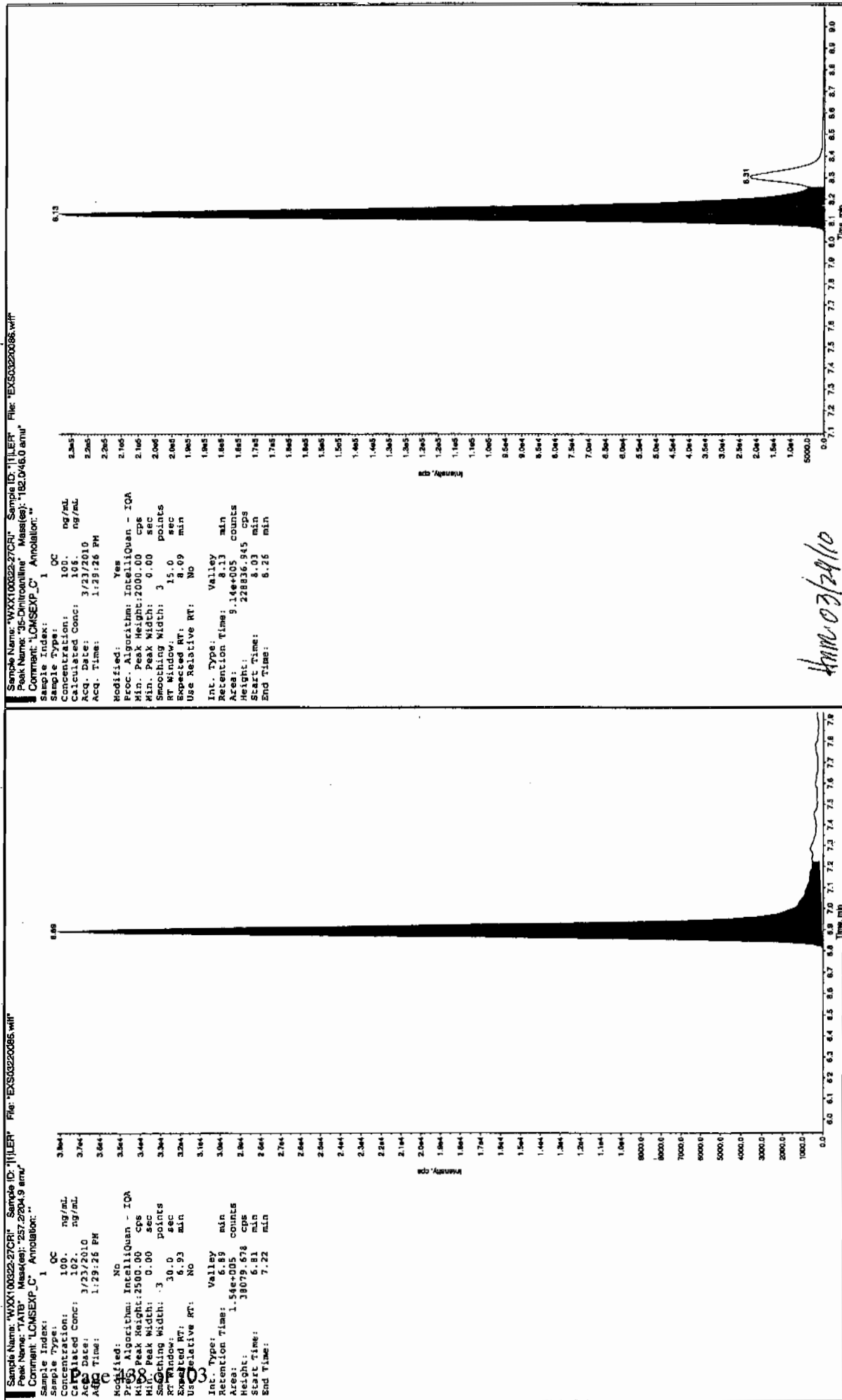
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

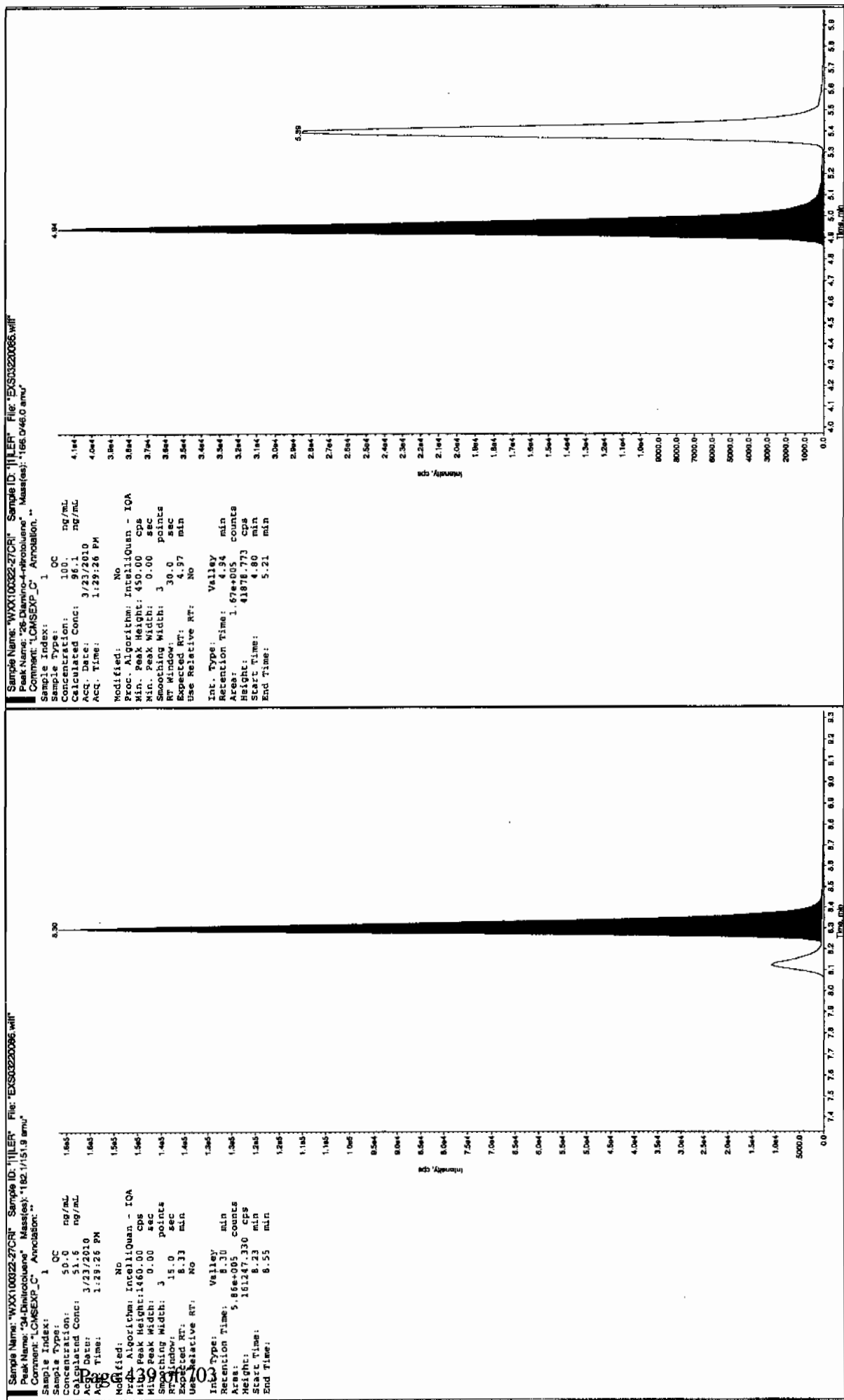
Column used to flag Recovery outside of Limits

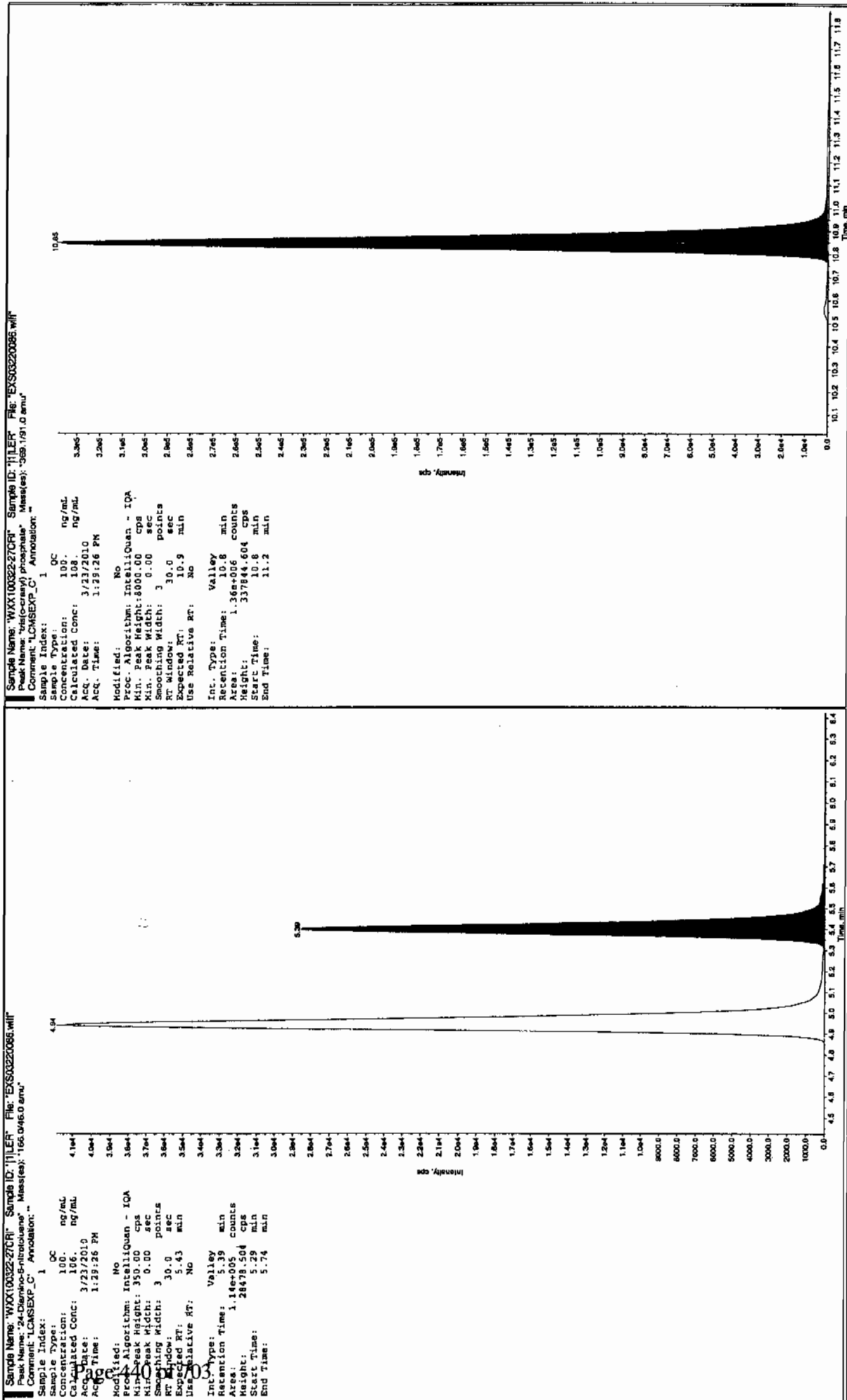
* Value outside of Recovery Limits

Jan 3/27/10



Jan 03/24/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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	

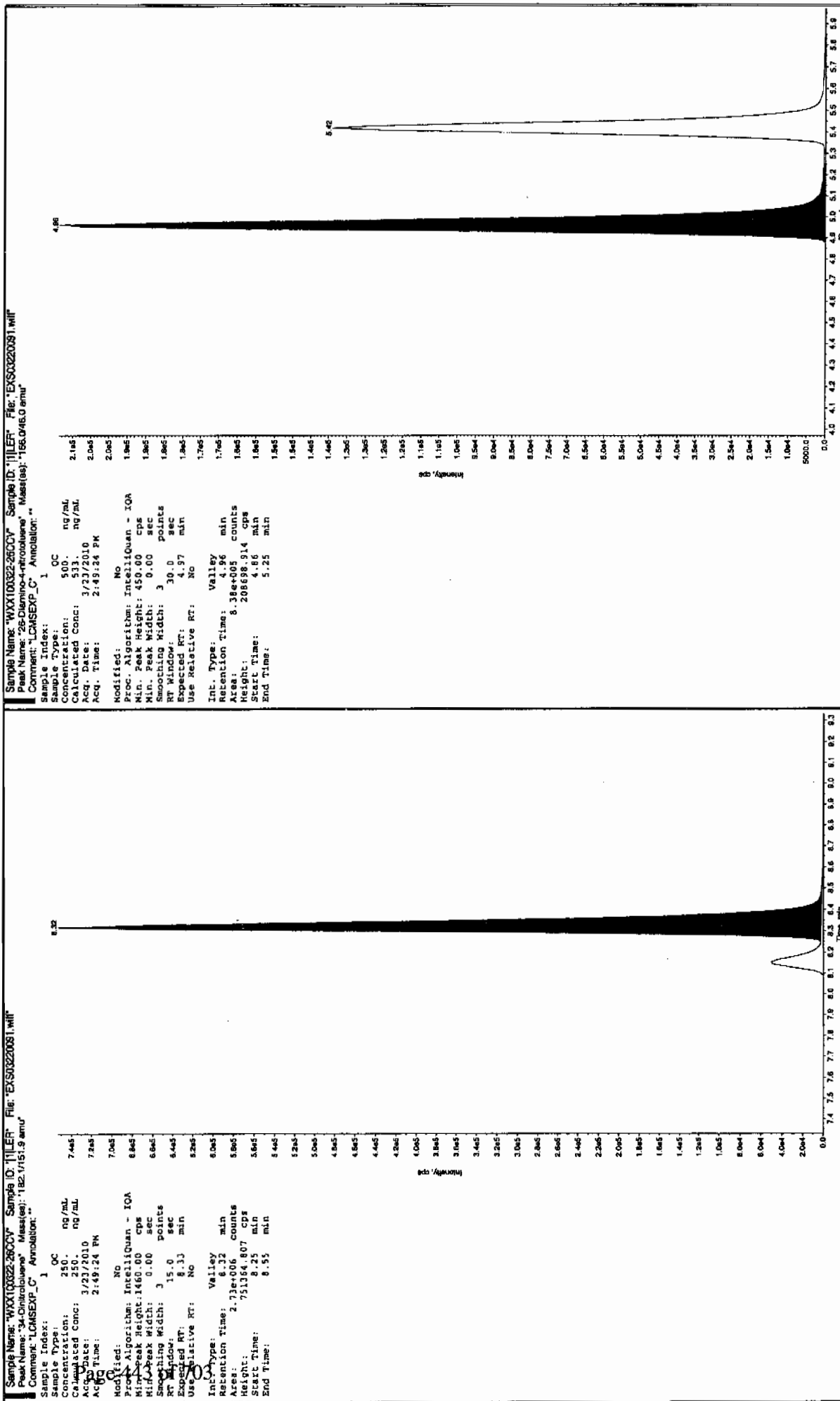
Recovery Limits:

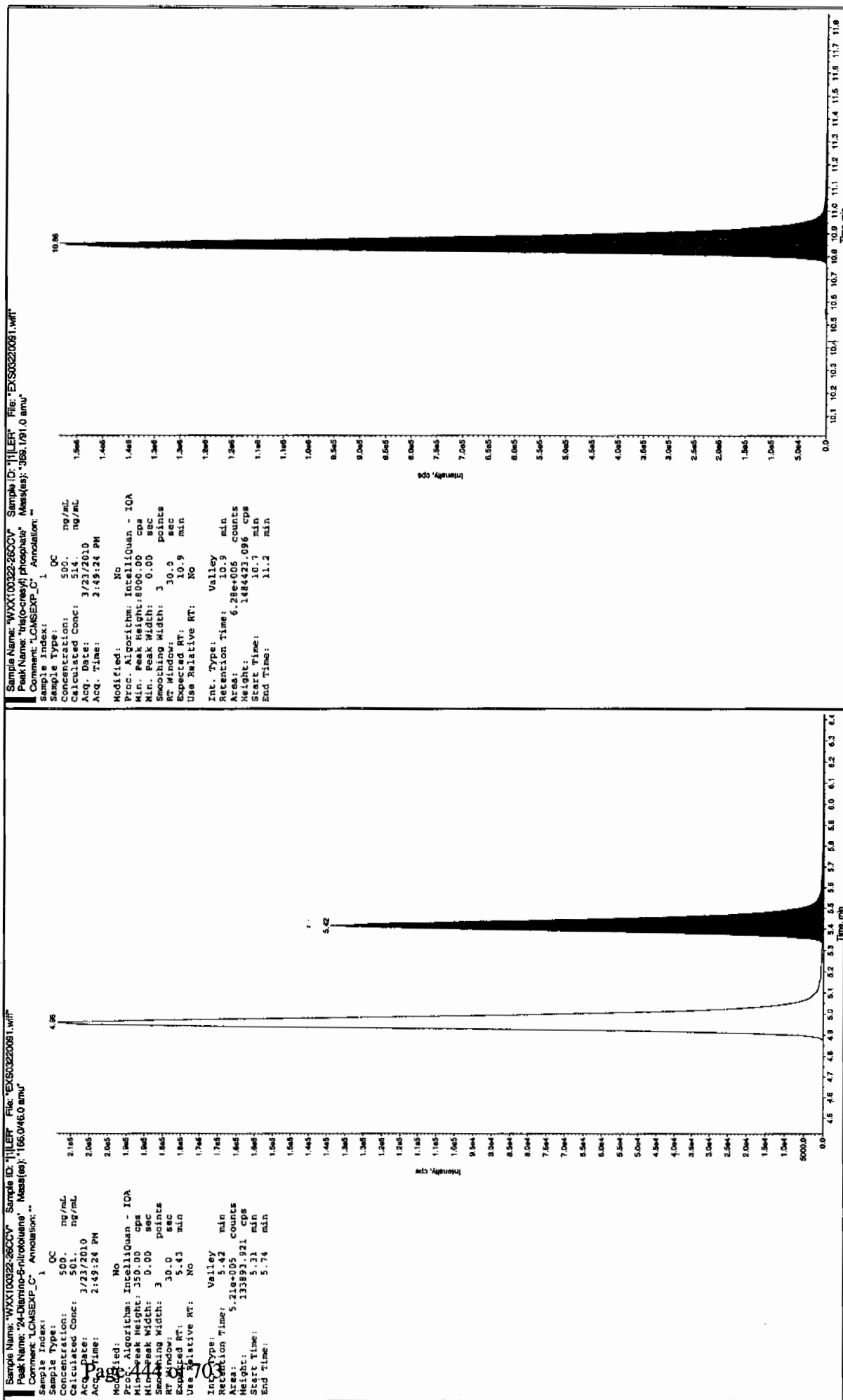
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2009

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%

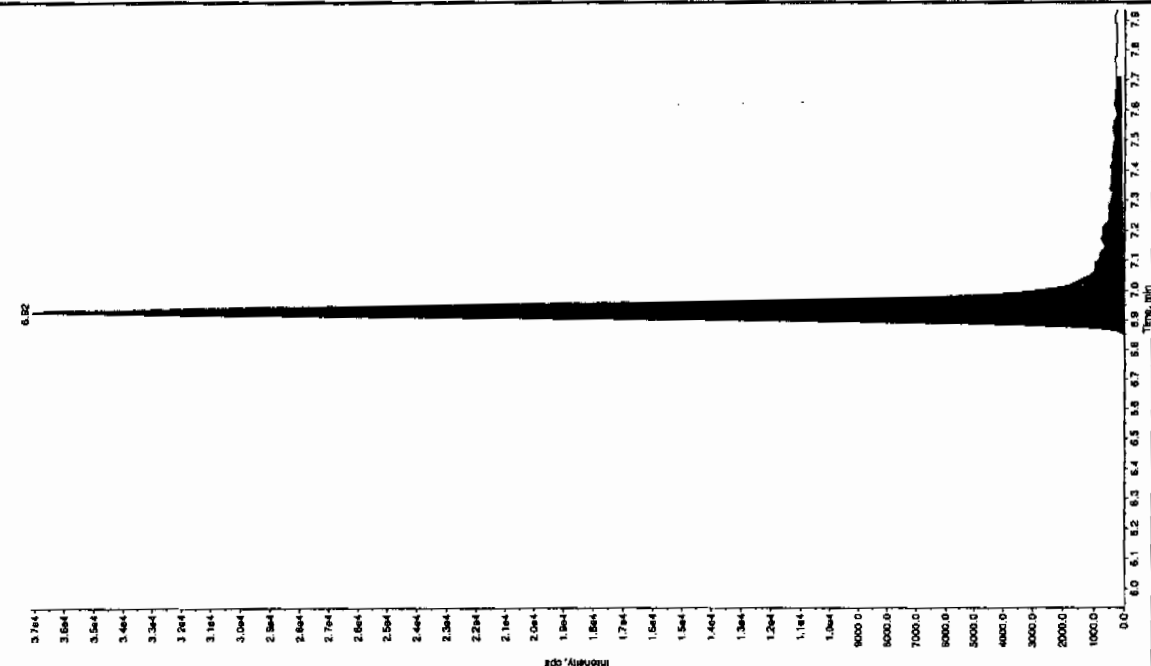
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31 2010

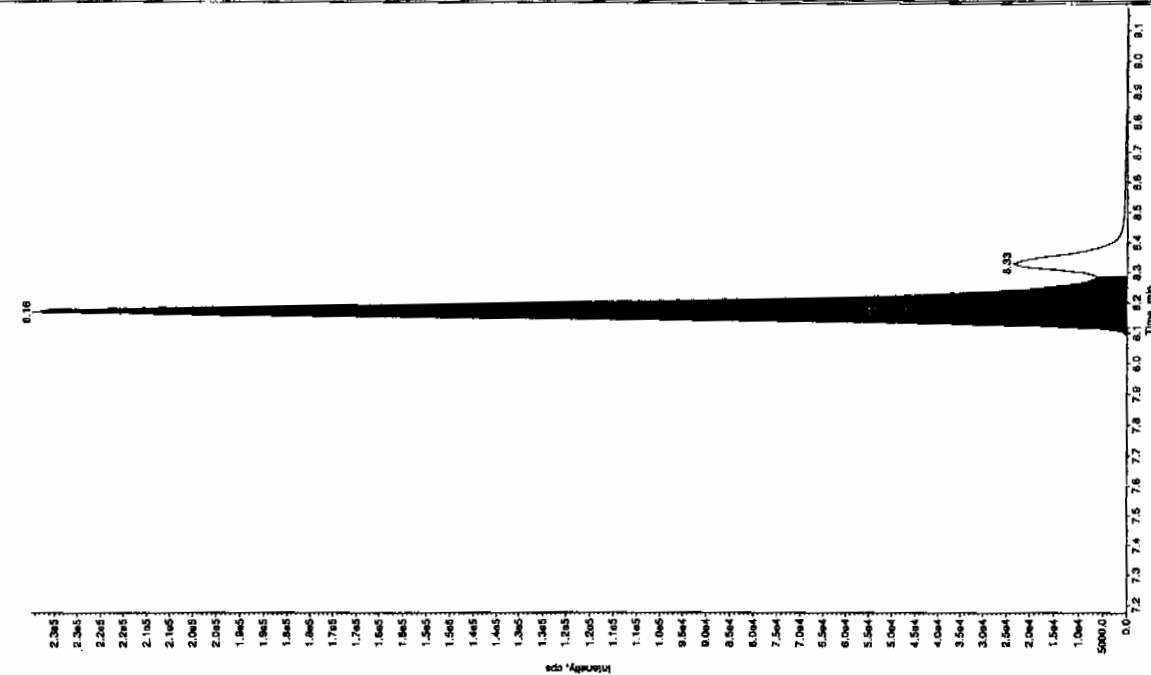
Sample Name: WXX100322-27CPI Sample ID: TILER File: EX03020093.wif
 Peak Name: TATB Mass(es): 257.2204.9 amu
 Comment: LCMSEXP_C Annotation:

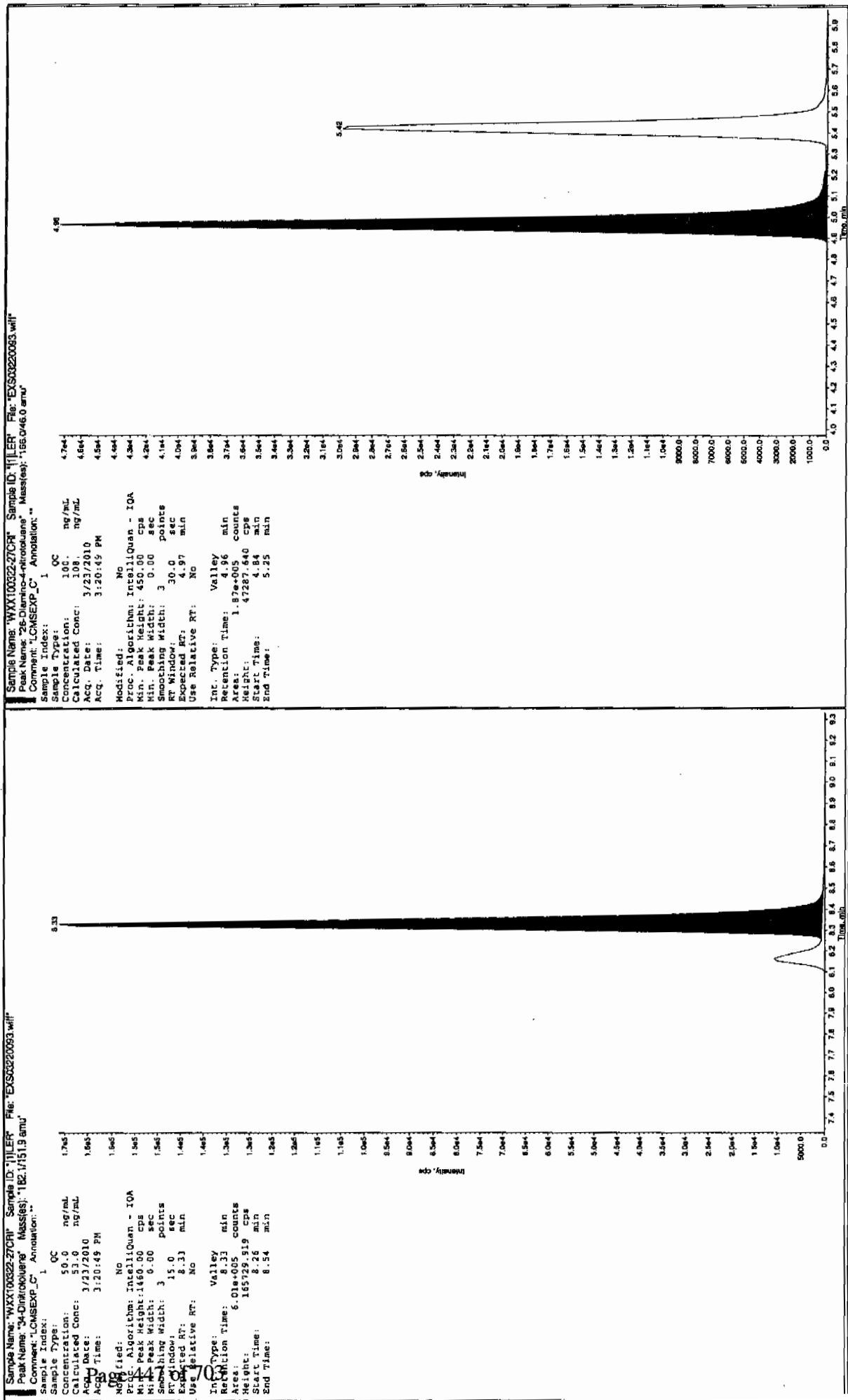
Sample Index: 1
 Sample Type: QC
 Concentration: 107 ng/mL
 Calculated Conc: 107 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:20:49 PM
 Mod: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 1.60±0.02 min
 Area: 37105.480 counts
 Start Time: 6.83 min
 End Time: 7.71 min



Sample Name: WXX100322-27CPI Sample ID: TILER File: EX03020093.wif
 Peak Name: TATB Mass(es): 152.046.0 amu
 Comment: LCMSEXP_C Annotation:

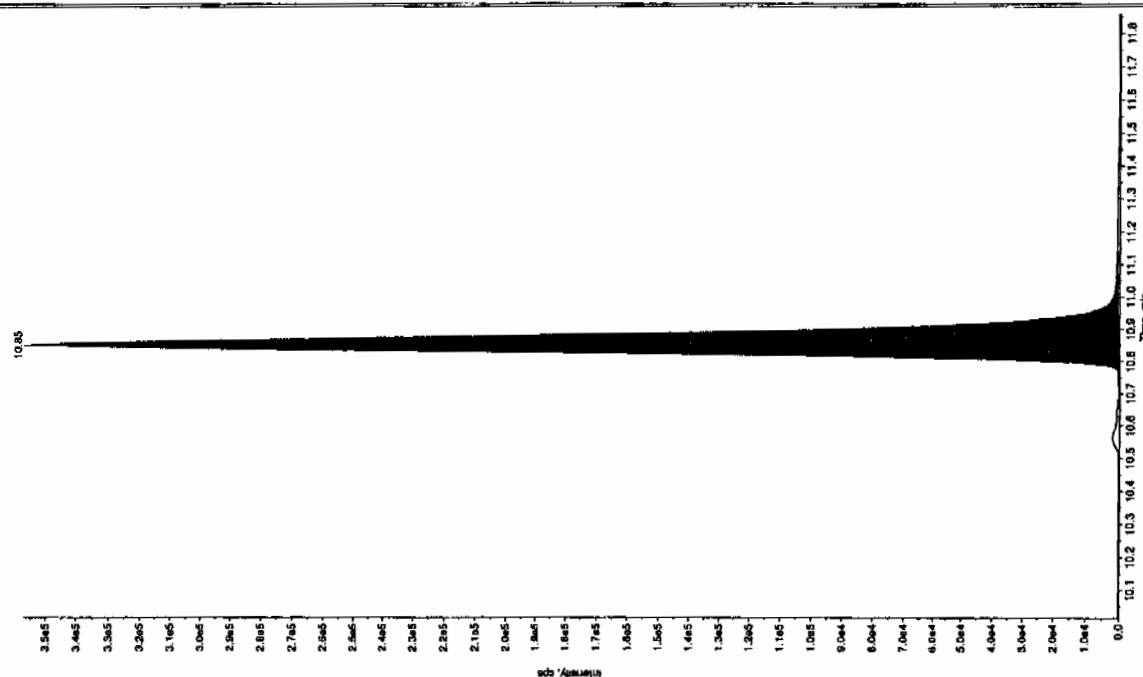
Sample Index: 1
 Sample Type: QC
 Concentration: 107 ng/mL
 Calculated Conc: 107 ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:20:49 PM
 Mod: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 23455.720 counts
 Start Time: 8.07 min
 End Time: 8.29 min





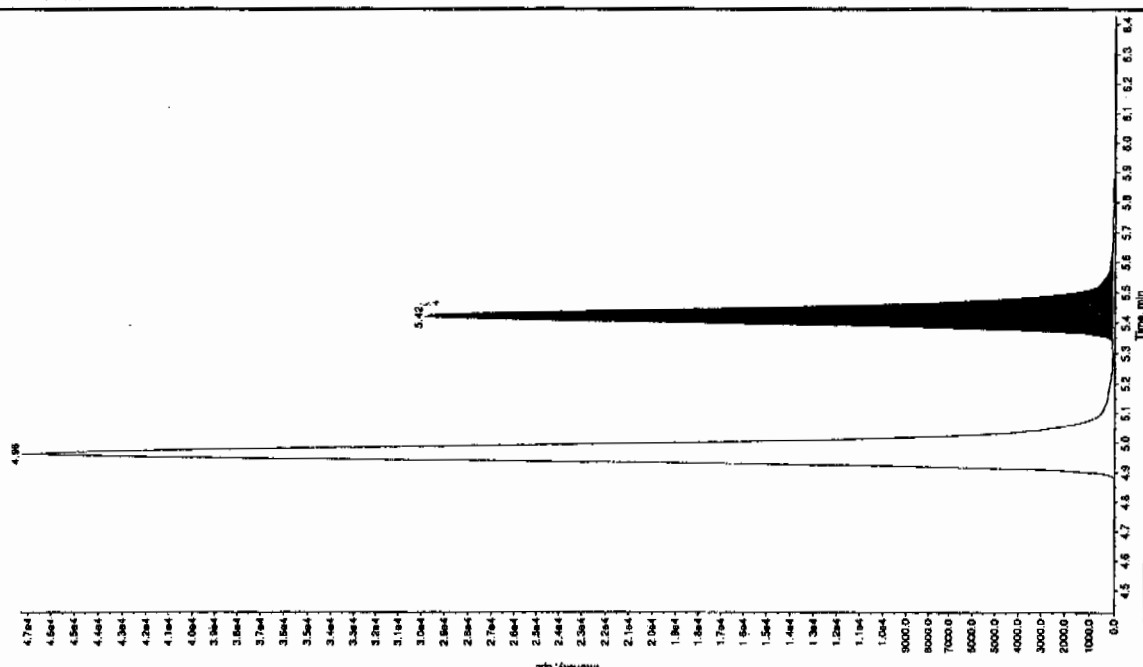
Sample Name: "WXX100322-27C1" Sample ID: "111ER" File: "EXS03220093.wif"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "385.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 113. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:20:49 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: 1.42e+006 counts
 Height: 356820.831 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "WXX100322-27C1" Sample ID: "111ER" File: "EXS03220093.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 109. ng/mL
 Acq. Date: 3/23/2010
 Acq. Time: 3:20:49 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.42 min
 Area: 1.17e+005 counts
 Height: 29754.133 cps
 Start Time: 5.33 min
 End Time: 5.64 min



QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957690

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053627

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408013a

Date Analyzed: 09-APR-10 03:26

Units: ug/kg

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

*Concentration =

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

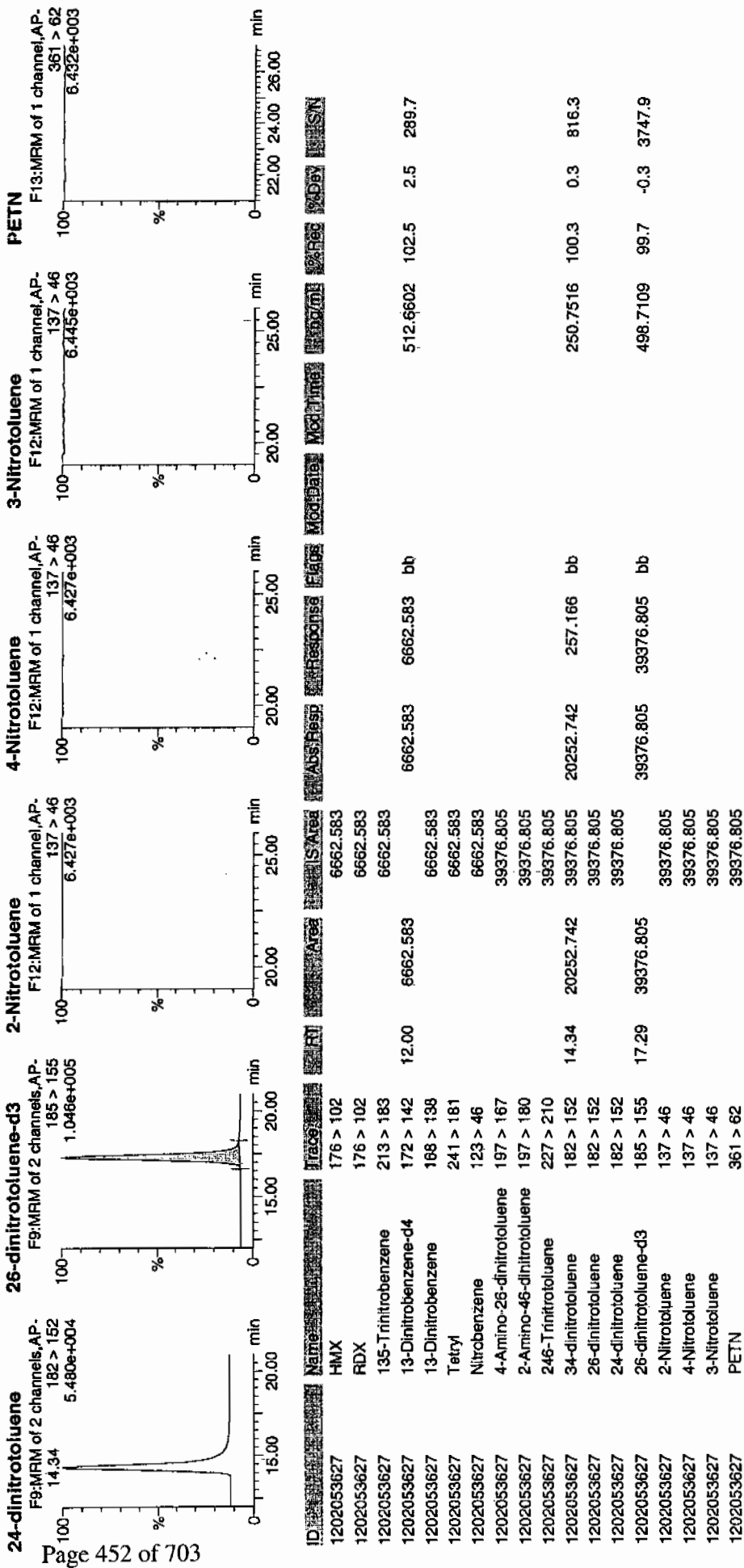
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 26 of 51

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



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957690

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053627

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220061.wiff

Date Analyzed: 23-MAR-10 06:55

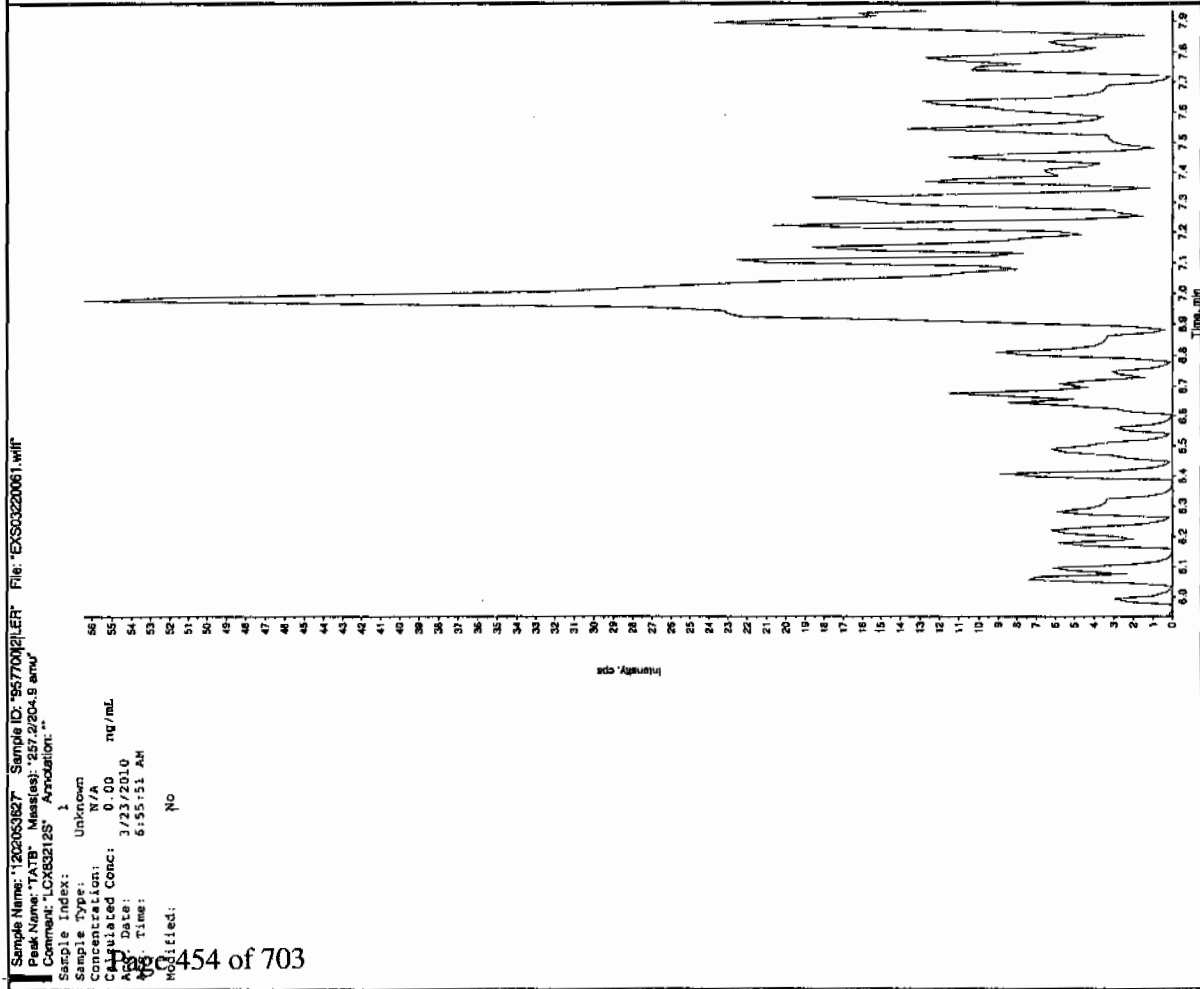
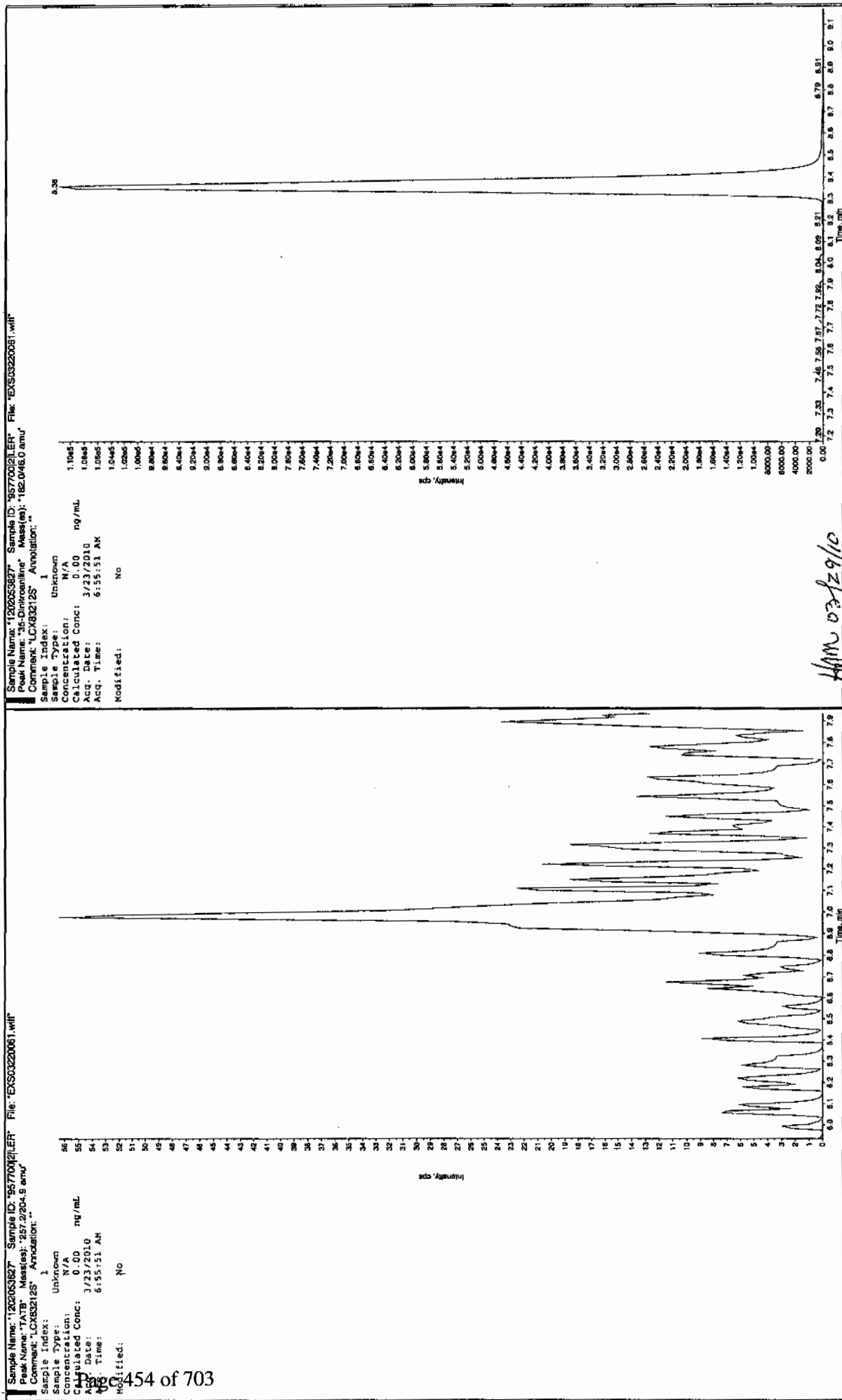
Units: ug/kg

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

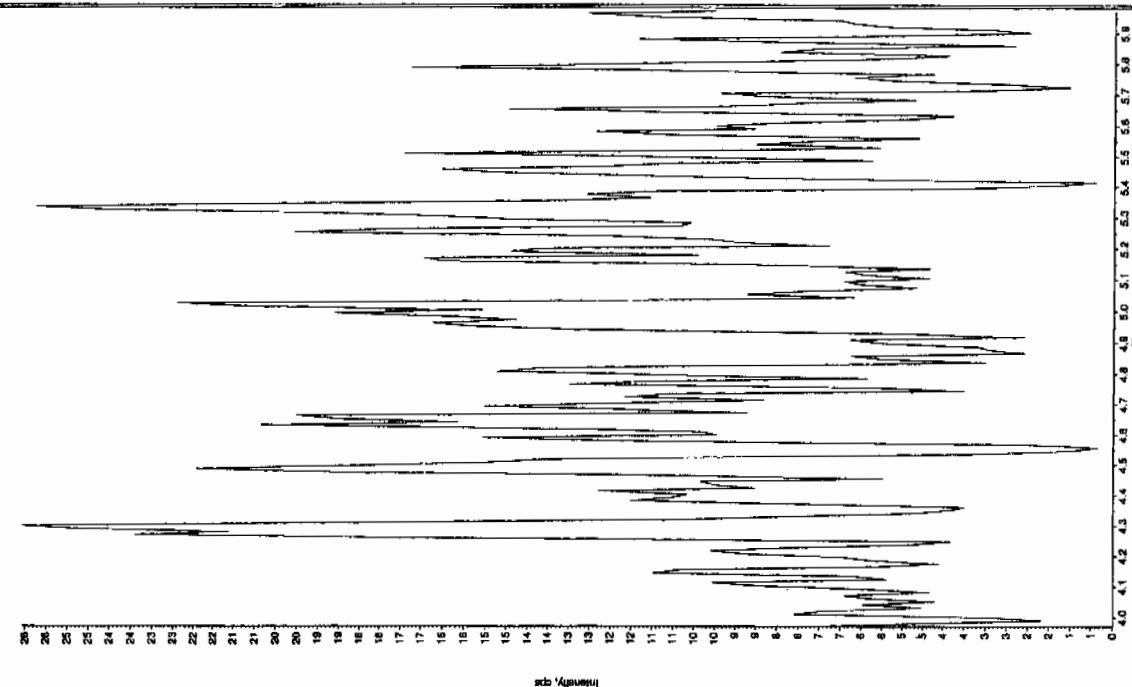
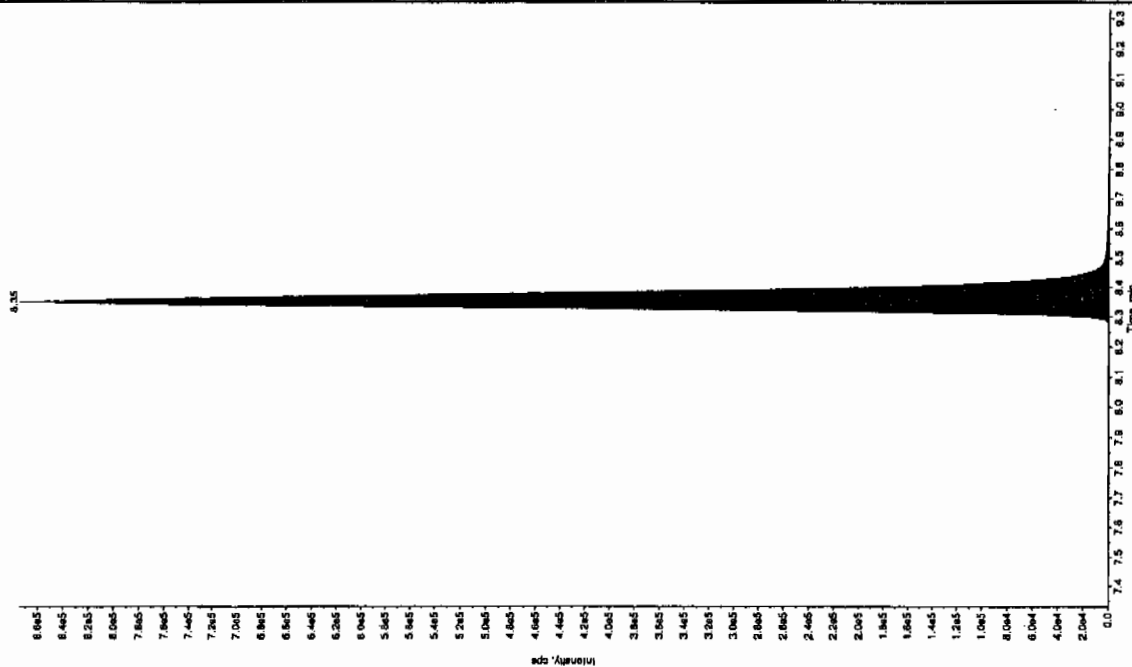
Jan 3/23/10

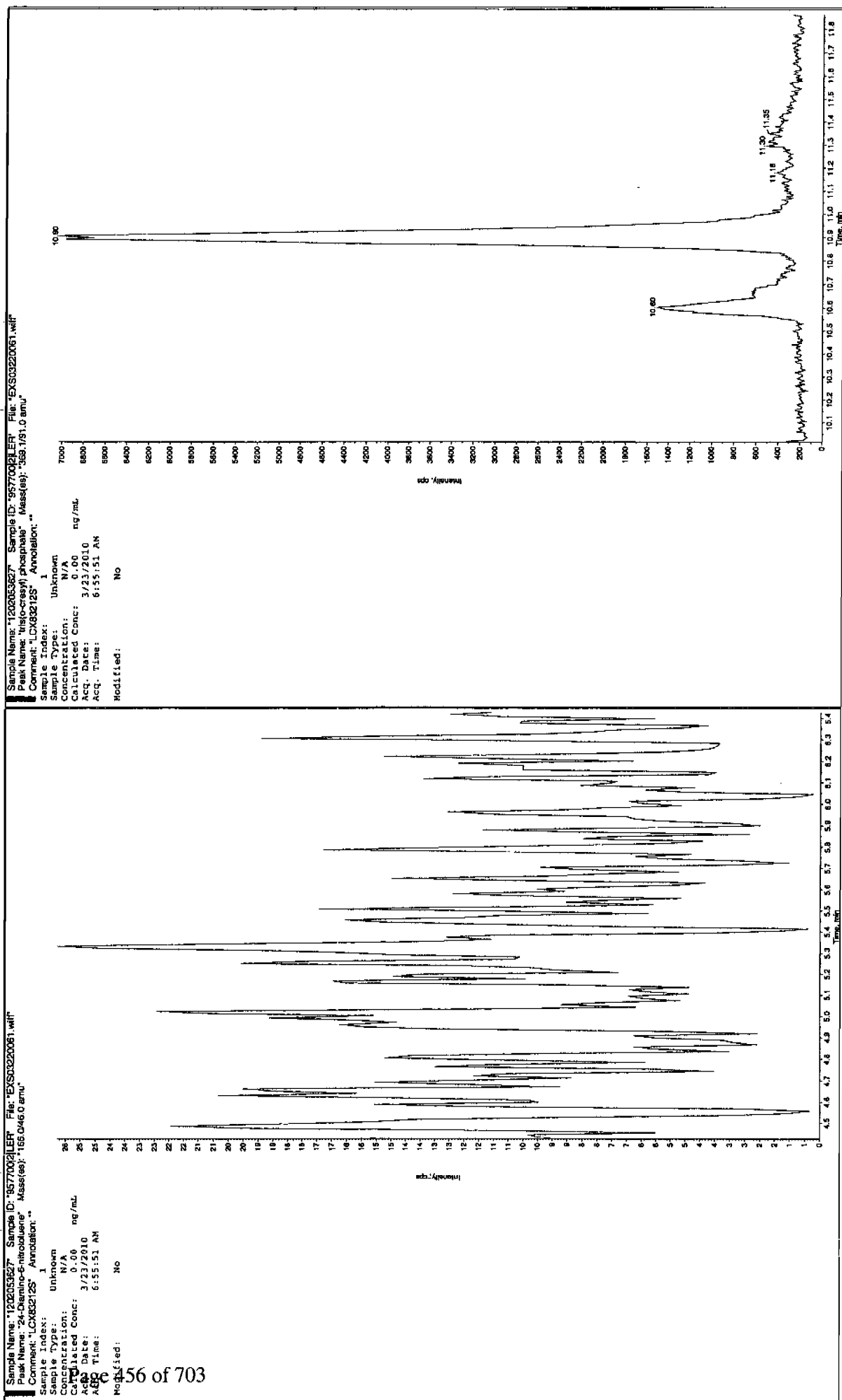


Sample Name: "1202053627" Sample ID: "95770021ER" File: "EX00220051.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182, 1151.9 amu"

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	ng/mL
Calculated Conc:	0.00	
Acq. Date:	3/23/2010	
Acq. Time:	6:55:51 AM	
Modified:	No	

Sample Index:	1	Annotation:
Sample Type:	Unknown	
Calculated Conc:	292	ng/mL
Date:	1/23/2010	
App Time:	6:55:51 AM	
Modified:	No	
PPM:	IntelliQuan - IQA	
Peak Height:	1460.00	cps
Min. Peak Width:	0.00	sec
Max. Peak Width:	35.0	sec
Acquired RT:	6.33	min
Expected RT:	No	
Unsat. Relative:	No	
Int. Type:	Valley	
Retention Time:	3.16	min
Height:	3460	counts
Width:	87450	min
Start Time:	8.25	min
End Time:	8.71	min





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957690

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053628

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408014a

Date Analyzed: 09-APR-10 03:56

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5630	
121-14-2	2,4-Dinitrotoluene	4740	
121-82-4	RDX	4170	
19406-51-0	4-Amino-2,6-dinitrotoluene	5460	
2691-41-0	HMX	3730	
35572-78-2	2-Amino-4,6-dinitrotoluene	4890	
479-45-8	Tetryl	2500	
606-20-2	2,6-Dinitrotoluene	4800	
78-11-5	PETN	4860	
88-72-2	o-Nitrotoluene	4580	
98-95-3	Nitrobenzene	4350	
99-08-1	m-Nitrotoluene	4430	
99-35-4	1,3,5-Trinitrobenzene	3760	
99-65-0	m-Dinitrobenzene	4710	
99-99-0	p-Nitrotoluene	4760	

*Concentration =

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

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 27 of 51

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408014a

Date: 09-Apr-2010

Time: 03:56:10

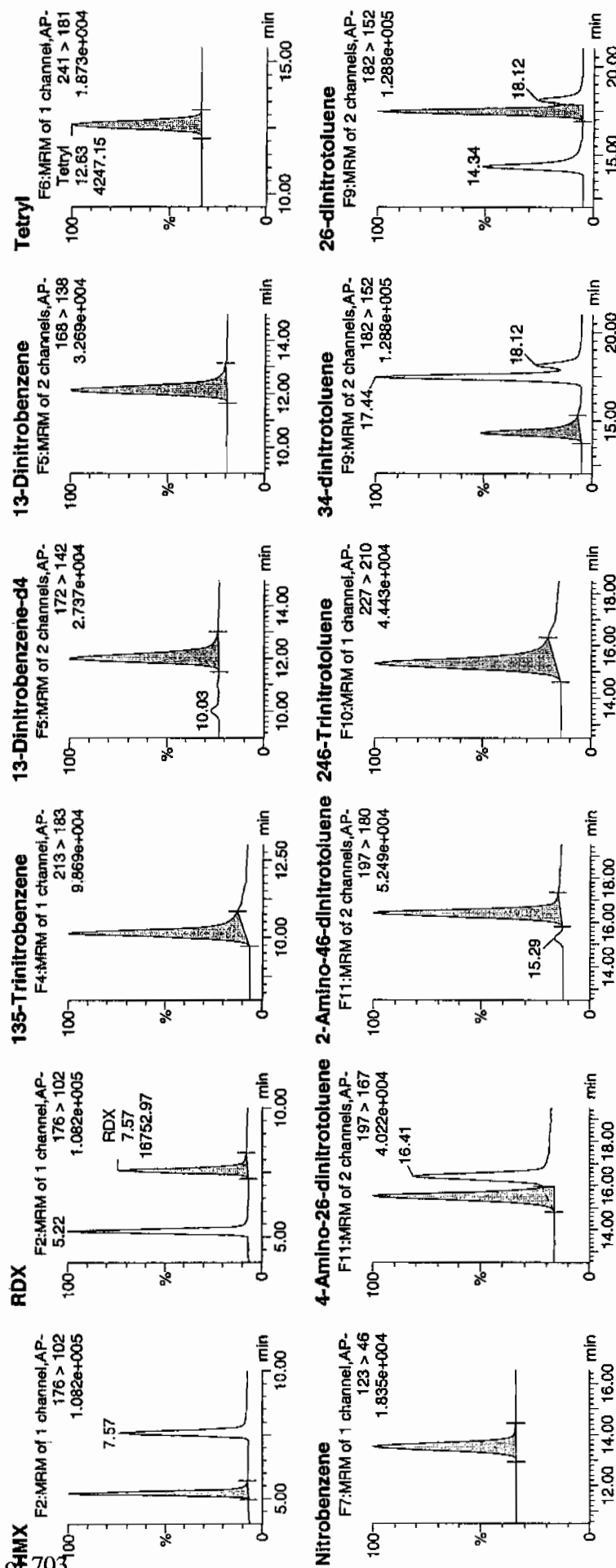
ID: 1202053628

Vial: 2:1,B

4/9/10

Law 1957700 / 105 / 21

↓ TetraYL



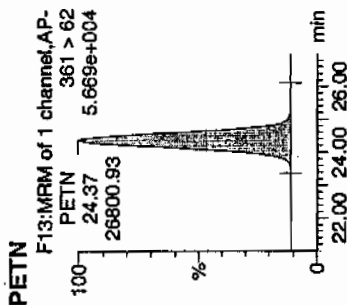
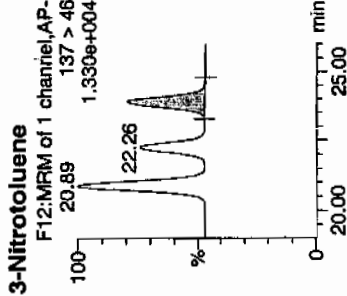
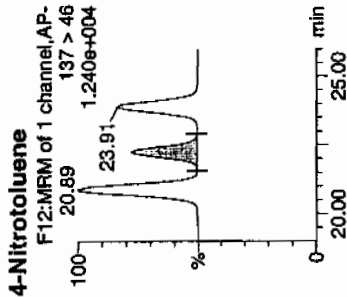
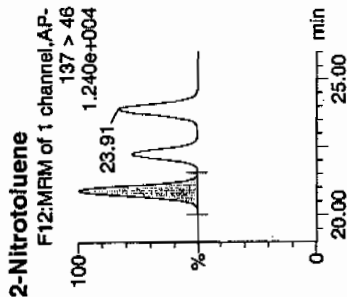
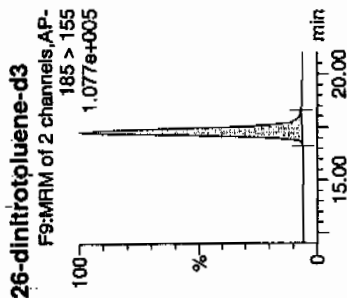
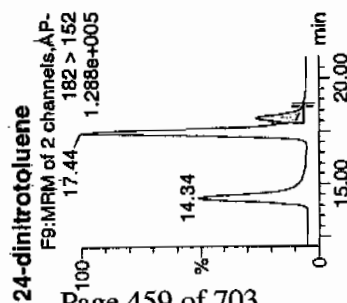
done 4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 28 of 51

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



ID	Name	Trace	RT	Area	IS Area	Response	Peak	Mod Date	Mod Time	Area	%Area	SN
1202053628	HMX	176 > 102	5.22	19627.189	8243.808	19627.189	1190.420	bb	372.6775	74.5	-25.5	1973.4
1202053628	RDX	176 > 102	7.57	16752.965	8243.808	16752.965	1016.094	bb	416.9676	83.4	-16.6	1422.3
1202053628	135-Trinitrobenzene	213 > 183	10.14	26155.602	8243.808	26155.602	1586.379	bb	373.6210	75.1	-24.9	2043.3
1202053628	13-Dinitrobenzene	172 > 142	11.97	8243.808	8243.808	8243.808	606.509	bb	634.3294	126.9	26.9	1010.4
1202053628	13-Dinitrobenzene	168 > 138	12.14	9999.894	8243.808	9999.894	606.509	bb	470.9394	94.2	-5.8	976.6
1202053628	Tetryl	241 > 181	12.63	4247.149	8243.808	4247.149	257.596	bb	250.1982	50.0	-50.0	335.0
1202053628	Nitrobenzene	123 > 46	13.54	4309.399	8243.808	4309.399	261.372	bb	434.8924	87.0	-13.0	377.4
1202053628	4-Amino-26-dinitrotoluene	197 > 167	15.53	13904.643	40921.789	13904.643	169.893	MM	545.7661	109.2	9.2	699.8
1202053628	2-Amino-46-dinitrotoluene	197 > 180	16.41	18276.238	40921.789	18276.238	223.307	bb	488.8187	97.8	-2.2	650.1
1202053628	246-Trinitrotoluene	227 > 210	15.31	17741.305	40921.789	17741.305	216.771	bb	563.3433	112.7	12.7	579.1
1202053628	34-dinitrotoluene	182 > 152	14.34	25404.484	40921.789	25404.484	310.403	bb	302.6608	121.1	21.1	619.5
1202053628	26-dinitrotoluene	182 > 152	17.44	44691.527	40921.789	44691.527	546.060	MM	480.1202	96.0	-4.0	1290.6
1202053628	24-dinitrotoluene	182 > 152	18.12	10262.075	40921.789	10262.075	125.386	MM	473.6314	94.7	-5.3	273.6
1202053628	26-dinitrotoluene-d3	185 > 155	17.29	40921.789	40921.789	40921.789	40921.789	bb	518.2783	103.7	3.7	3553.3
1202053628	2-Nitrotoluene	137 > 46	20.89	2874.816	40921.789	2874.816	95.126	bb	457.5962	91.5	-8.5	702.8
1202053628	4-Nitrotoluene	137 > 46	22.26	1514.274	40921.789	1514.274	18.502	bb	476.0740	95.2	-4.8	387.4
1202053628	3-Nitrotoluene	137 > 46	23.92	1981.042	40921.789	1981.042	24.205	bb	443.3415	88.7	-11.3	22.5
1202053628	PETN	361 > 62	24.37	26800.926	40921.789	26800.926	327.465	bb	485.9292	97.2	-2.8	6309.0

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957690

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053628

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220062.wiff

Date Analyzed: 23-MAR-10 07:11

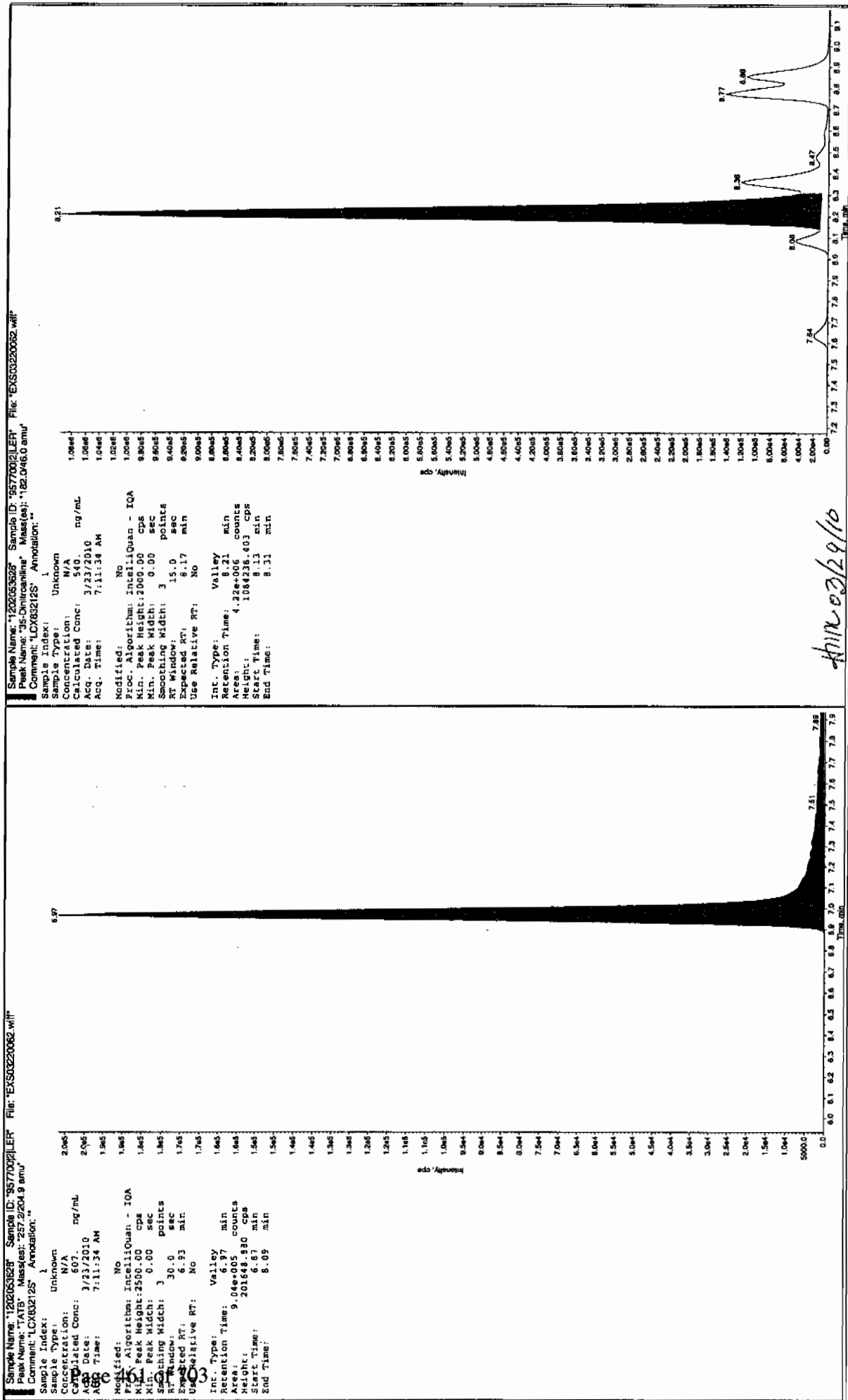
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	6070	
59229-75-3	2,6-Diamino-4-nitrotoluene	6290	
618-87-1	3,5-Dinitroaniline	5400	
6629-29-4	2,4-Diamino-6-nitrotoluene	5530	
78-30-8	tris(o-cresyl) phosphate	5040	

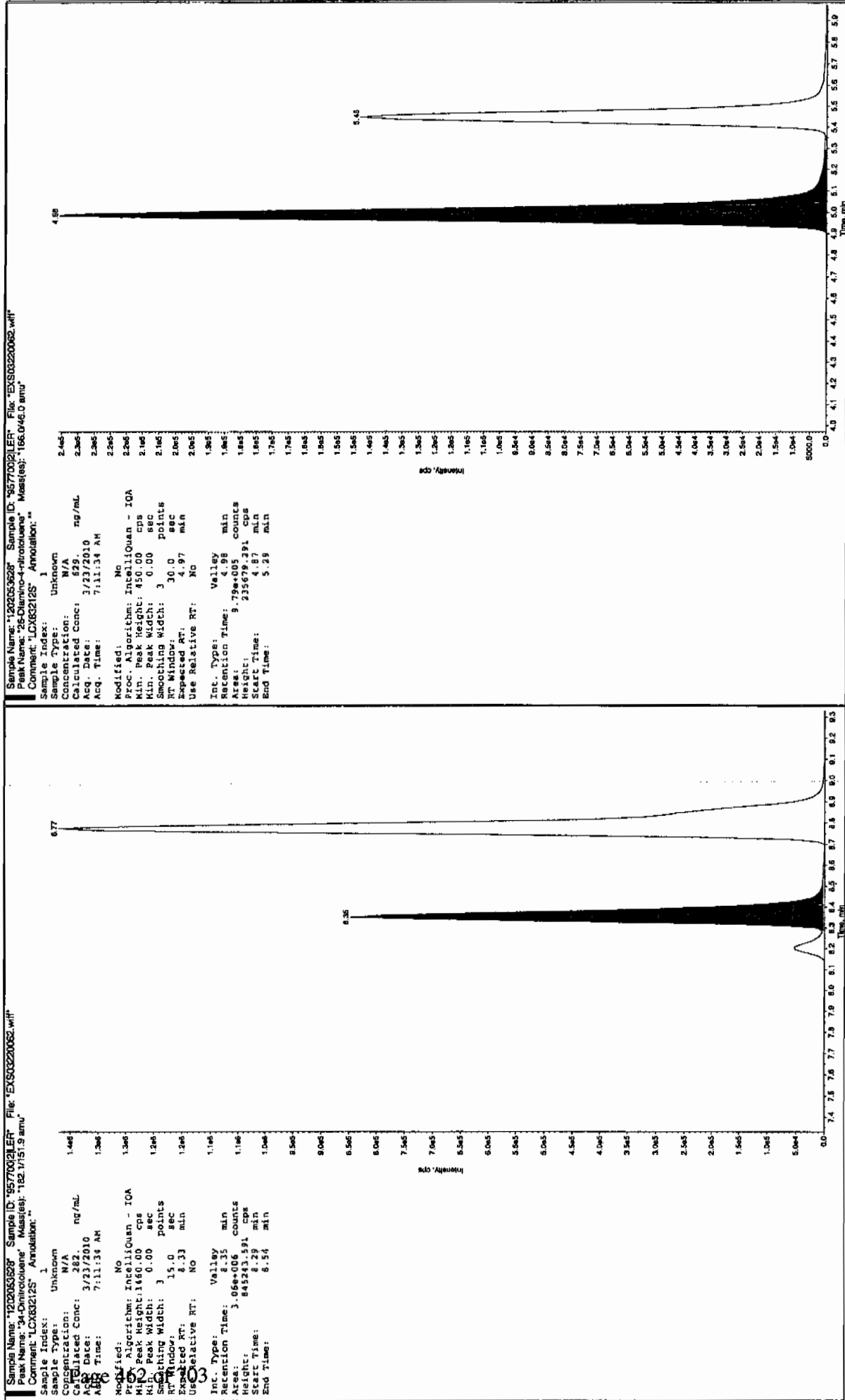
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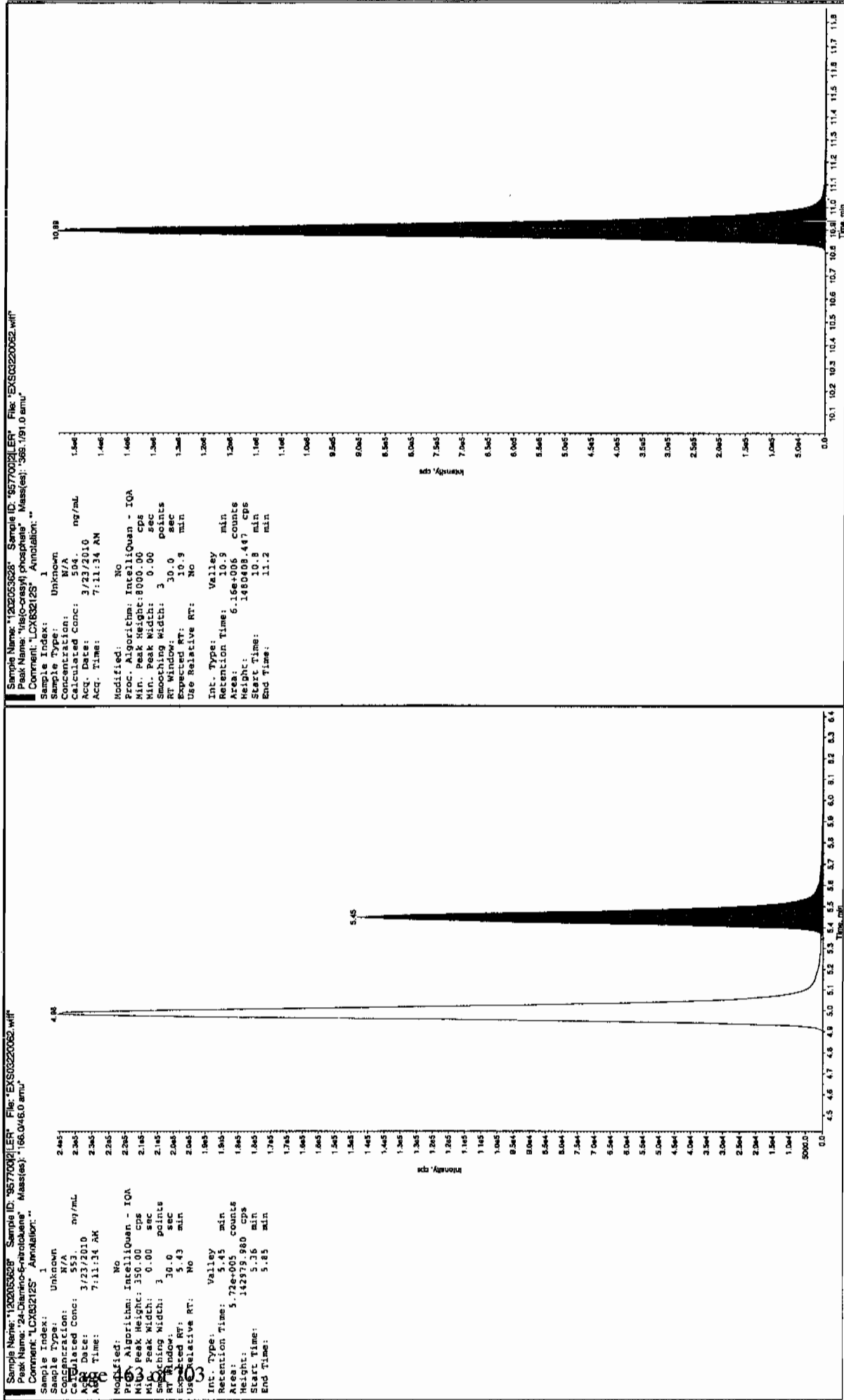
Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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See 3/27/10



See 3/27/10





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896(247897001MS)

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053629

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408016a

Date Analyzed: 09-APR-10 04:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4970	
121-14-2	2,4-Dinitrotoluene	4810	
121-82-4	RDX	4960	
19406-51-0	4-Amino-2,6-dinitrotoluene	4880	
2691-41-0	HMX	4760	
35572-78-2	2-Amino-4,6-dinitrotoluene	4960	
479-45-8	Tetryl	1970	
606-20-2	2,6-Dinitrotoluene	4900	
78-11-5	PETN	4870	
88-72-2	o-Nitrotoluene	4530	
98-95-3	Nitrobenzene	4740	
99-08-1	m-Nitrotoluene	4140	
99-35-4	1,3,5-Trinitrobenzene	4300	
99-65-0	m-Dinitrobenzene	4940	
99-99-0	p-Nitrotoluene	4760	

*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\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408016a

Date: 09-Apr-2010

Time: 04:55:06

ID: 1202053629

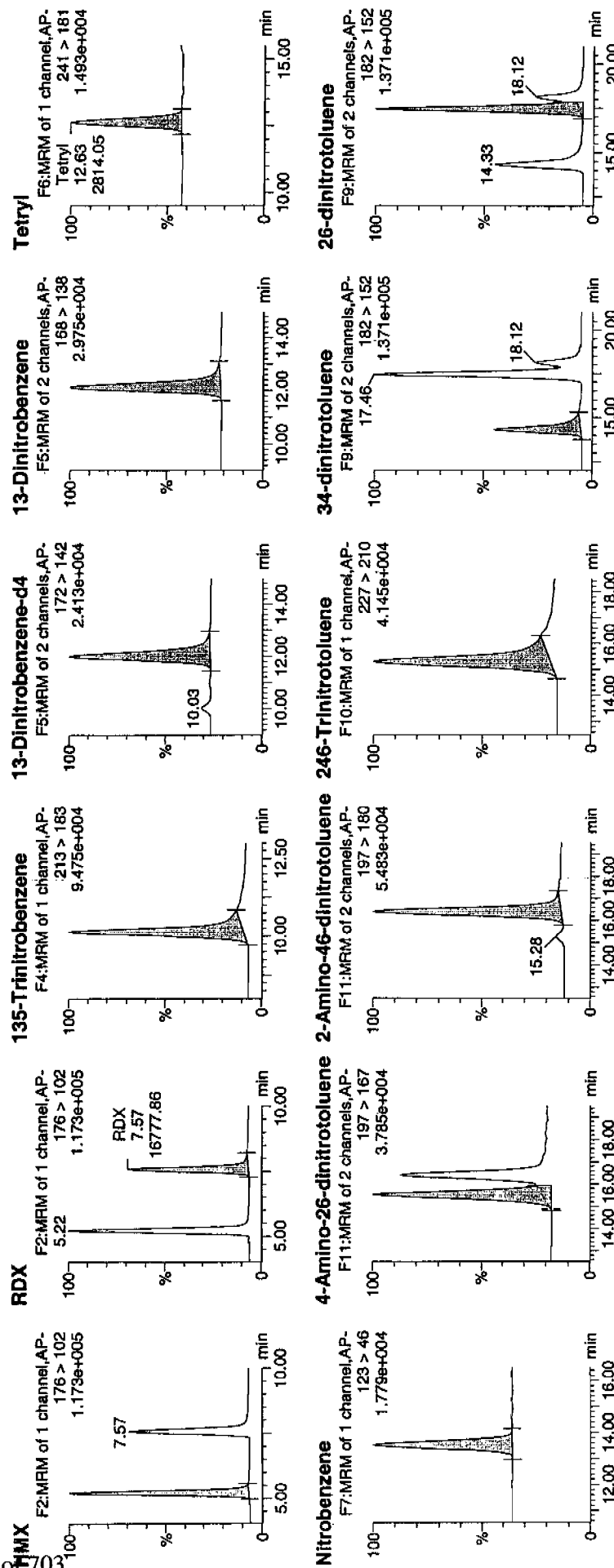
Mix: 2:1,D

1477
4/9/10

21

247897001MS

957700



Handwritten signature and date: 4/11/10

Quantify Sample Report

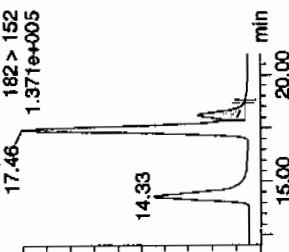
GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 32 of 51

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

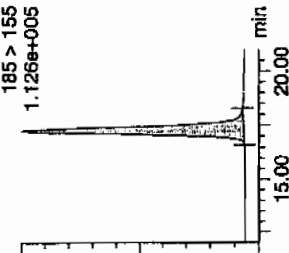
24-dinitrotoluene

F9:MRM of 2 channels,AP-
182 > 152
1.371e+005



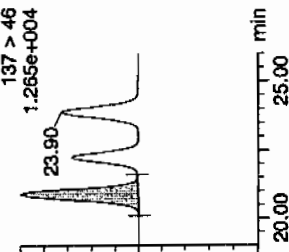
26-dinitrotoluene-d3

F8:MRM of 2 channels,AP-
185 > 155
1.126e+005



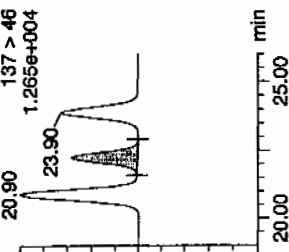
2-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
1.265e+004



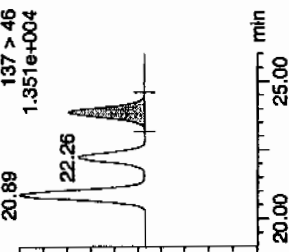
4-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
1.265e+004



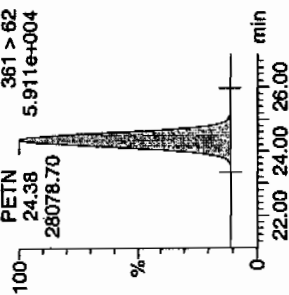
3-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
1.351e+004



PETN

F13:MRM of 1 channel,AP-
361 > 52
5.911e+004



ID	Name	Trace	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	Mod	Rec	Day	ISN
1202053629	HMX	176 > 102	5.22	21126.375	6944.545	21126.375	bb			476.1942	95.2	-4.8	961.8	
1202053629	RDX	176 > 102	7.57	16777.859	6944.545	16777.859	bb			495.7140	99.1	-0.9	844.2	
1202053629	135-Trinitrobenzene	213 > 183	10.14	25214.318	6944.545	25214.318	bb			429.8496	86.0	-14.0	1758.4	
1202053629	13-Dinitrobenzene-d4	172 > 142	11.97	6944.545	6944.545	6944.545	bb			534.3561	106.9	6.9	431.5	
1202053629	13-Dinitrobenzene	168 > 138	12.14	8832.839	6944.545	8832.839	bb			493.8033	98.8	-1.2	510.5	
1202053629	Tetryl	241 > 181	12.63	2814.048	6944.545	202.609	bb			196.7896	39.4	-60.6	192.0	
1202053629	Nitrobenzene	123 > 46	13.53	3956.719	6944.545	3956.719	bb			474.0067	94.8	-5.2	217.7	
1202053629	4-Amino-26-dinitrotoluene	197 > 167	15.52	13002.213	42773.551	13002.213	MM	09-Apr-10	10:44:45	488.2512	97.7	-2.3	514.3	
1202053629	2-Amino-46-dinitrotoluene	197 > 180	16.40	19397.641	42773.551	19397.641	bb			496.3513	99.3	-0.7	620.0	
1202053629	246-Trinitrotoluene	227 > 210	15.30	16364.848	42773.551	16364.848	bb			497.1402	99.4	-0.6	1021.8	
1202053629	34-dinitrotoluene	182 > 152	14.33	23160.438	42773.551	23160.438	bb			263.9805	105.6	5.6	680.2	
1202053629	26-dinitrotoluene	182 > 152	17.46	47718.516	42773.551	47718.516	MM	09-Apr-10	10:47:37	490.4458	98.1	-1.9	1637.4	
1202053629	24-dinitrotoluene	182 > 152	18.12	10898.419	42773.551	10898.419	MM	09-Apr-10	10:50:05	481.2250	96.2	-3.8	338.8	
1202053629	26-dinitrotoluene-d3	185 > 155	17.28	42773.551	42773.551	42773.551	bb			541.7311	108.3	8.3	2897.3	
1202053629	2-Nitrotoluene	137 > 46	20.90	2971.753	42773.551	2971.753	bb			452.5477	90.5	-9.5	665.1	
1202053629	4-Nitrotoluene	137 > 46	22.26	1583.807	42773.551	1583.807	bb			476.3779	95.3	-4.7	373.1	
1202053629	3-Nitrotoluene	137 > 46	23.91	1934.476	42773.551	1934.476	bb			414.1783	82.8	-17.2	193.6	
1202053629	PETN	361 > 62	24.38	28078.697	42773.551	28078.697	bb			487.1913	97.4	-2.6	7538.9	

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896(247897001MS)

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053629

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220064.wiff

Date Analyzed: 23-MAR-10 07:42

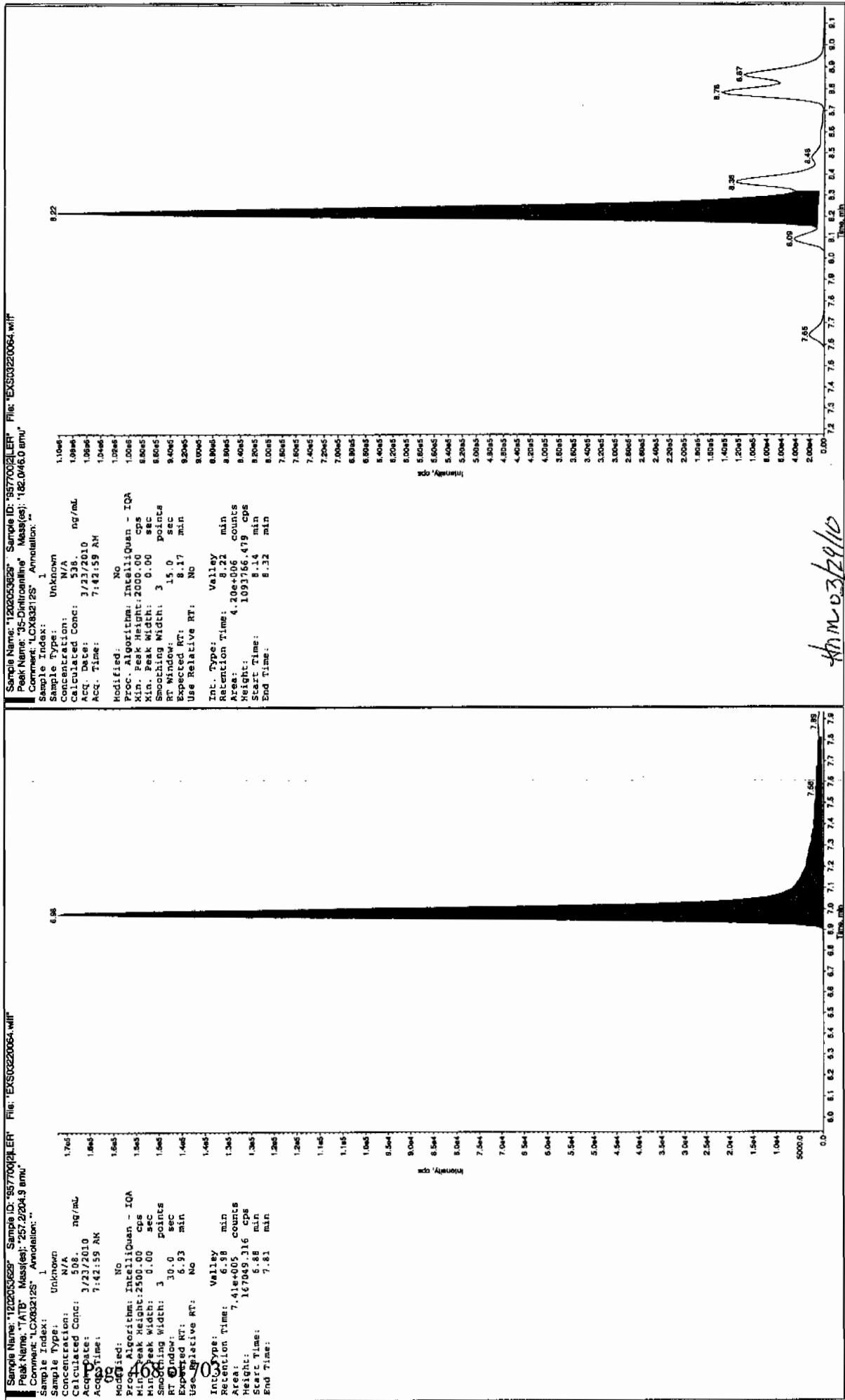
Units: ug/kg

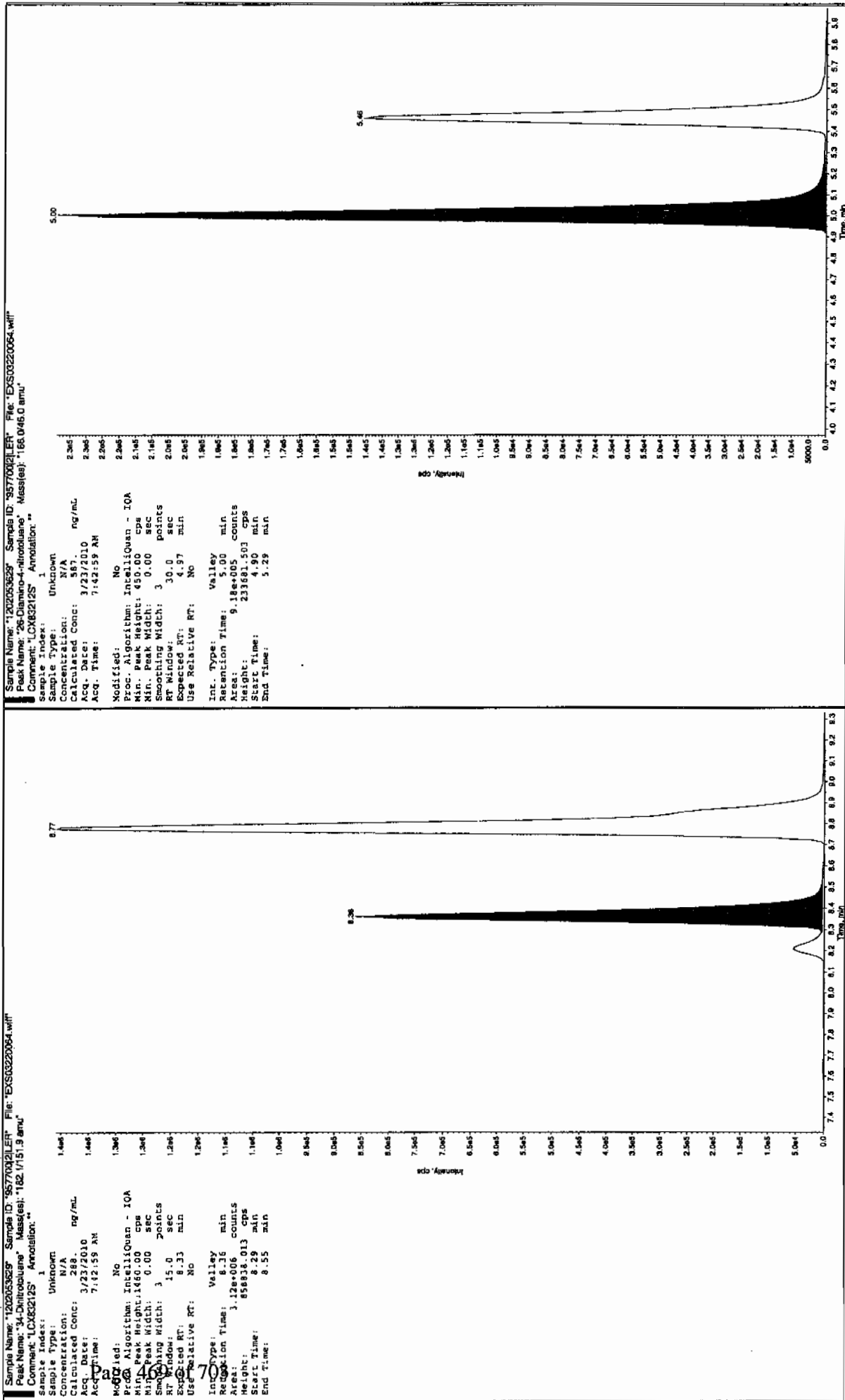
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5080	
59229-75-3	2,6-Diamino-4-nitrotoluene	5870	
618-87-1	3,5-Dinitroaniline	5380	
6629-29-4	2,4-Diamino-6-nitrotoluene	5310	
78-30-8	tris(o-cresyl) phosphate	5090	

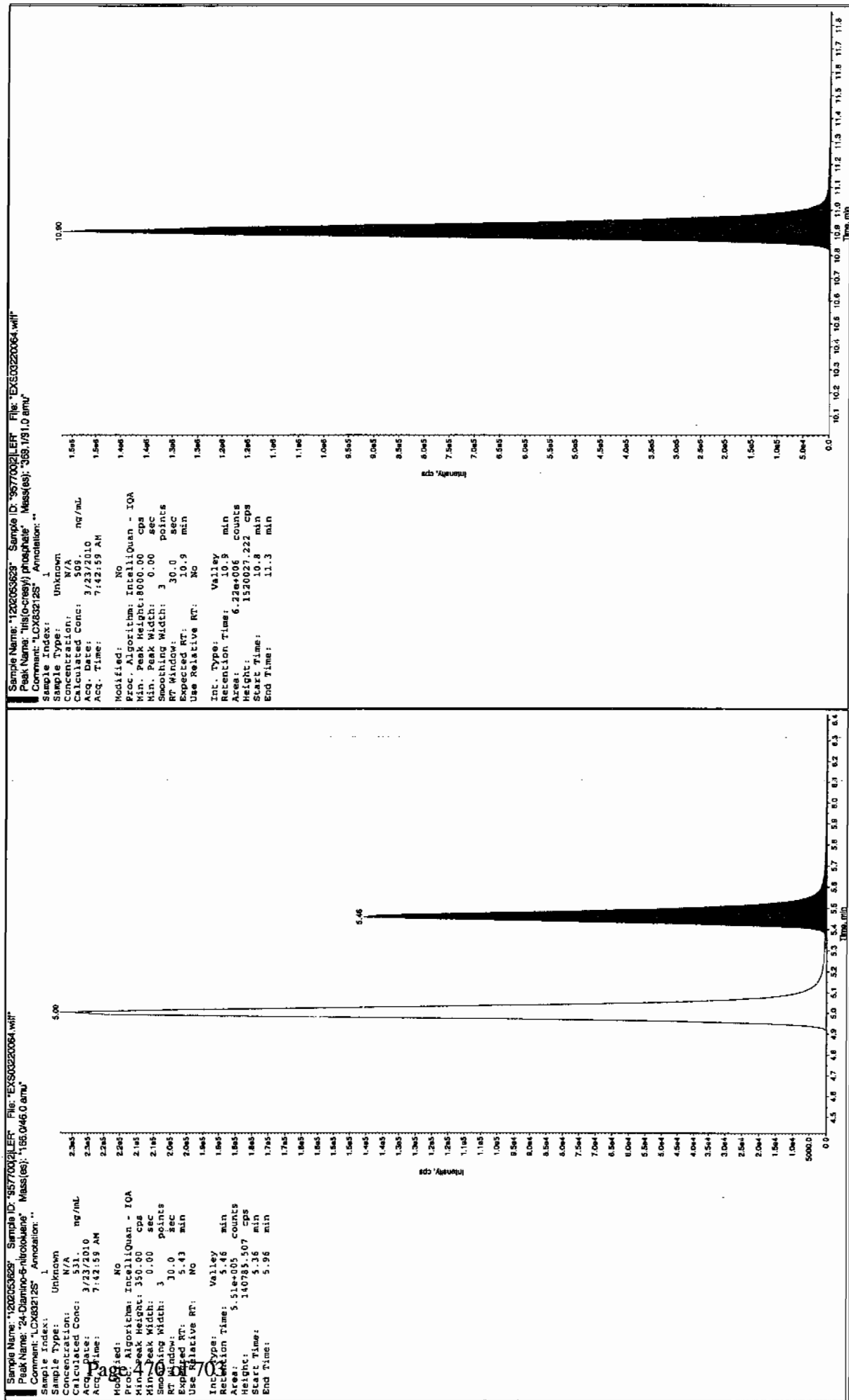
*Concentration =

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

for 3/27/10







1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896(247897001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053630

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408017a

Date Analyzed: 09-APR-10 05:24

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5040	
121-14-2	2,4-Dinitrotoluene	4840	
121-82-4	RDX	5730	
19406-51-0	4-Amino-2,6-dinitrotoluene	4950	
2691-41-0	HMX	4700	
35572-78-2	2-Amino-4,6-dinitrotoluene	5160	
479-45-8	Tetryl	1270	
606-20-2	2,6-Dinitrotoluene	4920	
78-11-5	PETN	4620	
88-72-2	o-Nitrotoluene	4440	
98-95-3	Nitrobenzene	4900	
99-08-1	m-Nitrotoluene	4430	
99-35-4	1,3,5-Trinitrobenzene	4070	
99-65-0	m-Dinitrobenzene	4870	
99-99-0	p-Nitrotoluene	4620	

*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\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408017a

Date: 09-Apr-2010

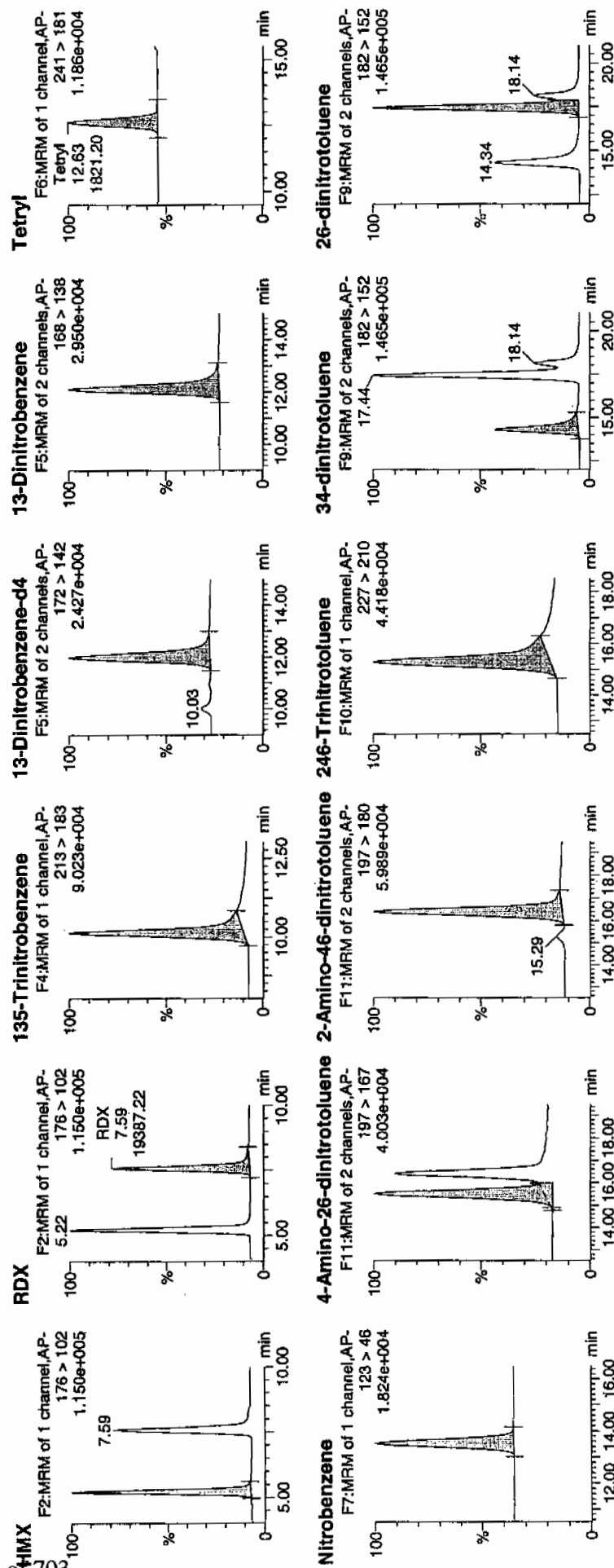
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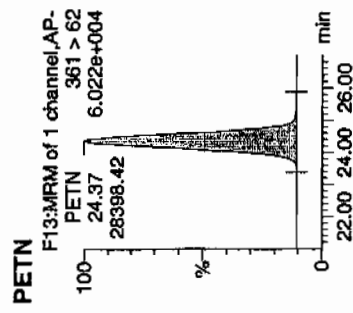
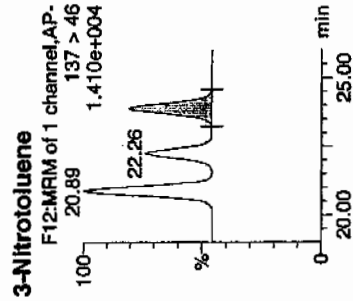
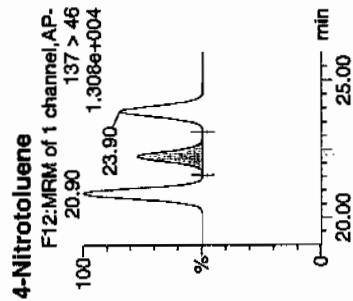
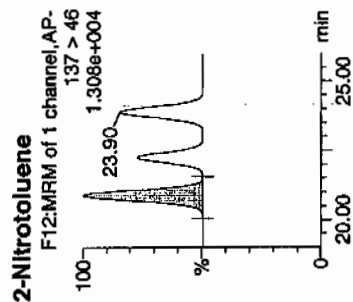
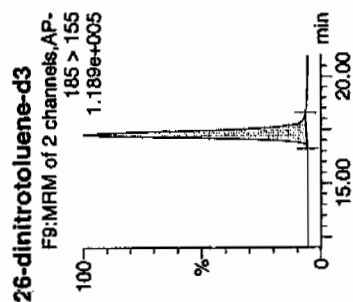
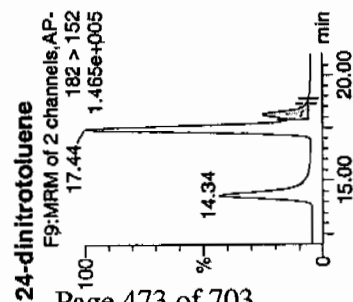
4/11/10

247897001msd



4/11/10

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



Name	Trace	RT	Area	ISaved	Abs.Resp	Response	Flags	ModDate	ModTime	Inst	Rec	%Dev	SN
HMX	176 > 102	5.22	20825.668	6941.081	20825.668	1500.175	bb			469.6505	93.9	-6.1	1335.1
RDX	176 > 102	7.59	19387.219	6941.081	19387.219	1396.556	bb			573.0953	114.6	14.6	1027.7
135-Trinitrobenzene	213 > 183	10.14	23874.672	6941.081	23874.672	1719.809	bb			407.2146	81.4	-18.6	370.4
13-Dinitrobenzene-d4	172 > 142	12.00	6941.081		6941.081	6941.081	bb			534.0896	106.8	6.8	809.4
13-Dinitrobenzene	168 > 138	12.14	8702.243	6941.081	8702.243	626.865	bb			486.7451	97.3	-2.7	546.9
Tetryl	241 > 181	12.63	1821.205	6941.081	1821.205	131.190	bb			127.4225	25.5	-74.5	229.1
Nitrobenzene	123 > 46	13.54	4086.940	6941.081	4086.940	294.402	bb			489.8512	98.0	-2.0	851.5
4-Amino-26-dinitrotoluene	197 > 167	15.53	13991.042	45398.301	13991.042	154.092	MM	09-Apr-10	10:44:54	495.0075	99.0	-1.0	312.0
2-Amino-46-dinitrotoluene	197 > 180	16.40	21410.594	45398.301	21410.594	235.808	bb			516.1842	103.2	3.2	530.9
246-Trinitrotoluene	227 > 210	15.31	17597.238	45398.301	17597.238	193.809	bb			503.6712	100.7	0.7	986.8
34-dinitrotoluene	182 > 152	14.34	24465.980	45398.301	24465.980	269.459	bb			262.7383	105.1	5.1	505.6
26-dinitrotoluene	182 > 152	17.44	50824.238	45398.301	50824.238	559.759	MM	09-Apr-10	10:47:45	492.1649	98.4	-1.6	1261.2
24-dinitrotoluene	182 > 152	18.14	11628.014	45398.301	11628.014	128.067	MM	09-Apr-10	10:50:15	483.7555	96.8	-3.2	258.4
26-dinitrotoluene-d3	185 > 155	17.29	45398.301		45398.301	45398.301	bb			574.9738	115.0	15.0	3203.0
2-Nitrotoluene	137 > 46	20.90	3096.387	45398.301	3096.387	34.102	bb			444.2655	88.9	-11.1	744.5
4-Nitrotoluene	137 > 46	22.26	1629.867	45398.301	1629.867	17.951	bb			461.8886	92.4	-7.6	404.1
3-Nitrotoluene	137 > 46	23.90	2194.208	45398.301	2194.208	24.166	bb			442.6266	88.5	-11.5	356.3
PETN	361 > 62	24.37	28398.416	45398.301	28398.416	312.770	bb			461.6549	92.3	-7.7	7102.7

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7896(247897001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-2009

Matrix: SOIL

GEL Sample ID: 1202053630

Sample Amount 2

Moisture: 5.9

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957690

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03220065.wiff

Date Analyzed: 23-MAR-10 07:58

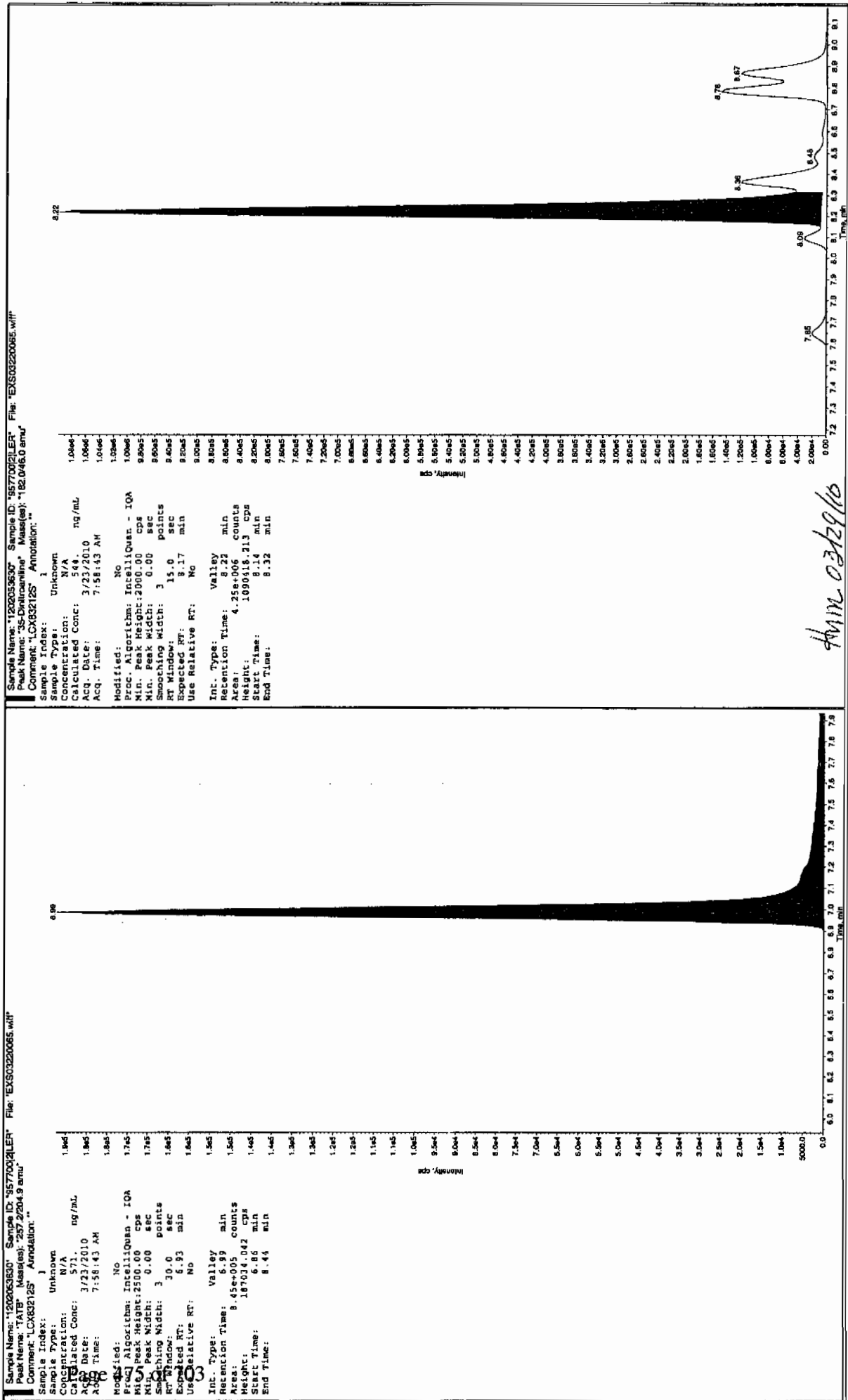
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5710	
59229-75-3	2,6-Diamino-4-nitrotoluene	5780	
618-87-1	3,5-Dinitroaniline	5440	
6629-29-4	2,4-Diamino-6-nitrotoluene	5340	
78-30-8	tris(o-cresyl) phosphate	5050	

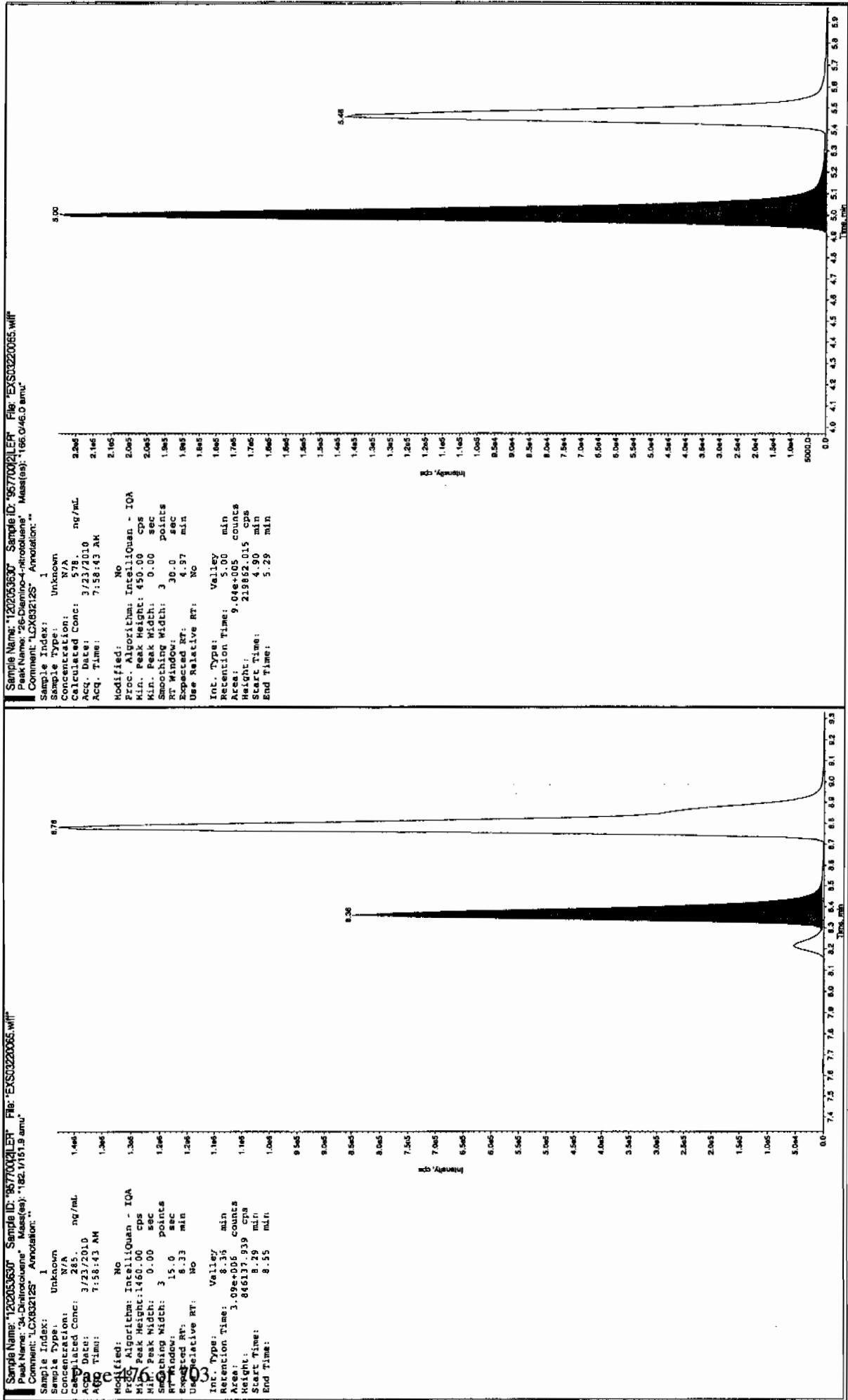
*Concentration =

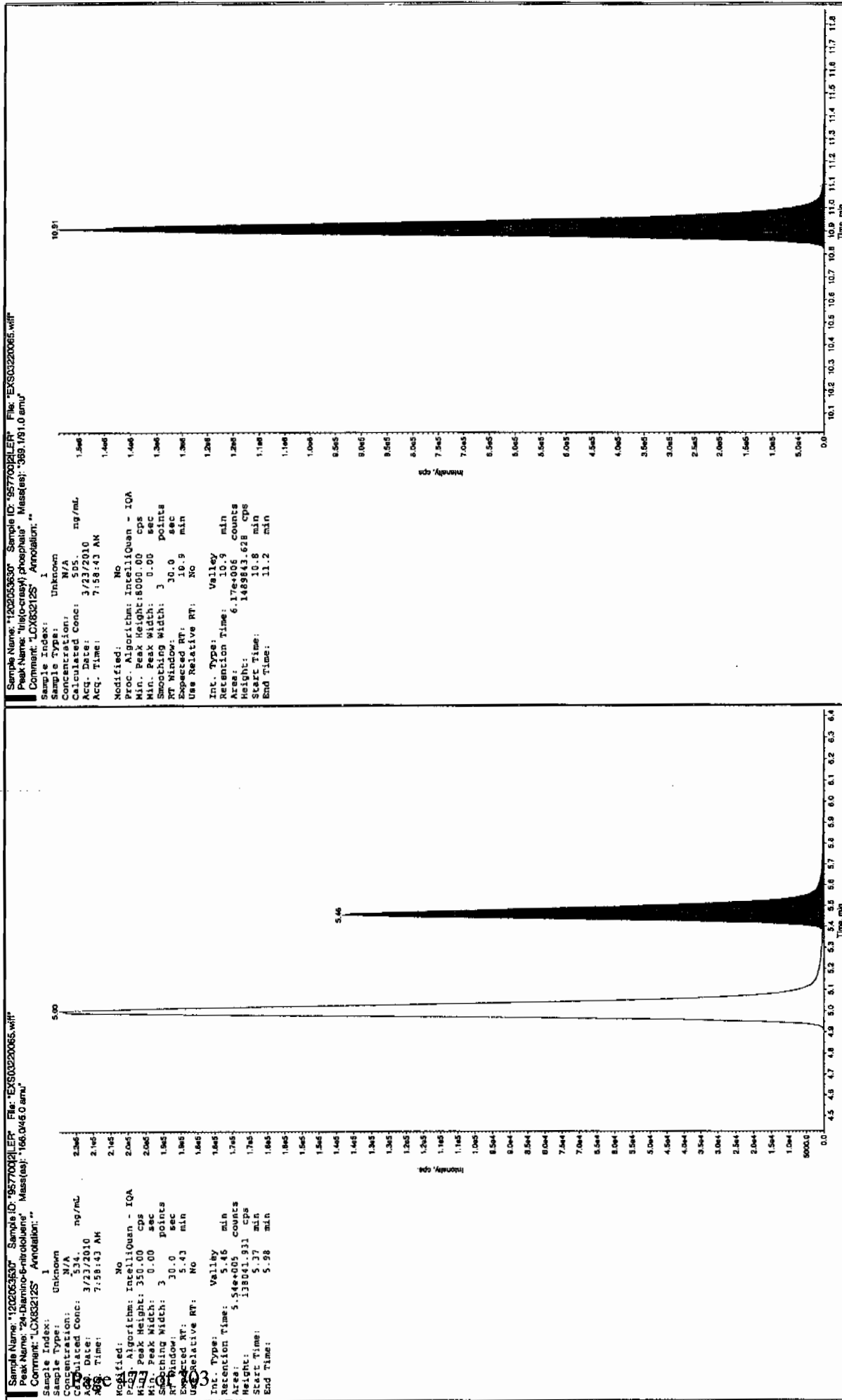
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

See 3127110



4/11/03 03:29:10





MISCELLANEOUS DATA

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

Batch ID: 957690 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)
1202053627 MB	01-MAR-2010 16:06:00	2	10	5
1202053628 LCS	01-MAR-2010 16:06:00	2	10	5
247897001	01-MAR-2010 16:06:00	2	10	5
1202053629 MS (247897001)	01-MAR-2010 16:06:00	2	10	5
1202053630 MSD (247897001)	01-MAR-2010 16:06:00	2	10	5
247897002	01-MAR-2010 16:06:00	2	10	5
247897003	01-MAR-2010 16:06:00	2	10	5
247897004	01-MAR-2010 16:06:00	2	10	5
247897005	01-MAR-2010 16:06:00	2	10	5
247897006	01-MAR-2010 16:06:00	2	10	5
247897007	01-MAR-2010 16:06:00	2	10	5
247897008	01-MAR-2010 16:06:00	2	10	5
247897009	01-MAR-2010 16:06:00	2	10	5
247897010	01-MAR-2010 16:06:00	2	10	5
247897011	01-MAR-2010 16:06:00	2	10	5
247897012	01-MAR-2010 16:06:00	2	10	5
247897013	01-MAR-2010 16:06:00	2	10	5
247897014	01-MAR-2010 16:06:00	2	10	5
247897015	01-MAR-2010 16:06:00	2	10	5
247897016	01-MAR-2010 16:06:00	2	10	5
247897017	01-MAR-2010 16:06:00	2	10	5
247897018	01-MAR-2010 16:06:00	2	10	5
247897019	01-MAR-2010 16:06:00	2	10	5
247897020	01-MAR-2010 16:06:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202053628	8321 Explosives LCS	DX100225-03	.1	mL	Final Solvent: ACN
LCS	1202053628	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MS	1202053629	8321 Explosives LCS	DX100225-03	.1	mL	
MS	1202053629	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MSD	1202053630	8321 Explosives LCS	DX100225-03	.1	mL	
MSD	1202053630	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	DXP100223-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS #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: *dhyl*
 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	Client	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	WXXCCV	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	WXXCCV	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	10-2027	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	WXXCCV	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	USE	S
EXP0408118a	248047003	MAP	4/11/10 7:07	958282	10-2045	2	LANL	DUSE-RA	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

Z

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/22/10
 Extr. Injection Volume: 10ul
 Sequence Number: 032210exs
 Initial Calibration Date: 032210
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *hmk*
 Date: *03/29/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100322-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03220001.wiff	XIBLK01	LER	3/22/2010 15:12			1		USE	B
EXS03220002.wiff	XIBLK01	LER	3/22/2010 15:28			1		USE	B
EXS03220003.wiff	WXXICAL-19	LER	3/22/2010 15:44			1		USE	I
EXS03220004.wiff	WXXICAL-20	LER	3/22/2010 16:00			1		USE	I
EXS03220005.wiff	WXXICAL-21	LER	3/22/2010 16:15			1		USE	I
EXS03220006.wiff	WXXICAL-22	LER	3/22/2010 16:31			1		DUSE	I
EXS03220007.wiff	WXXICAL-23	LER	3/22/2010 16:47			1		USE	I
EXS03220008.wiff	WXXICAL-24	LER	3/22/2010 17:02			1		USE	I
EXS03220009.wiff	WXXICAL-25	LER	3/22/2010 17:18			1		USE	I
EXS03220010.wiff	XIBLK02	LER	3/22/2010 17:34			1		USE	I
EXS03220011.wiff	WXXICV	LER	3/22/2010 17:50			1		USE	B
EXS03220012.wiff	XIBLK03	LER	3/22/2010 18:05			1		USE	C
EXS03220013.wiff	WXXCRI	LER	3/22/2010 18:21			1		USE	B
EXS03220014.wiff	1202059959	LER	3/22/2010 18:37	960370	VARIOUS	1	LANL	USE	C
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	USE	S
EXS03220108.wiff	247904006	LER	3/23/2010 19:16	957702	10-2012		2	LANL	USE	S
EXS03220109.wiff	247904007	LER	3/23/2010 19:32	957702	10-2012		2	LANL	USE	S
EXS03220110.wiff	247904008	LER	3/23/2010 19:47	957702	10-2012		2	LANL	USE	S
EXS03220111.wiff	247904009	LER	3/23/2010 20:03	957702	10-2012		2	LANL	USE	S
EXS03220112.wiff	247904010	LER	3/23/2010 20:19	957702	10-2012		2	LANL	USE	S
EXS03220113.wiff	247904011	LER	3/23/2010 20:34	957702	10-2012		2	LANL	USE	S
EXS03220114.wiff	247904012	LER	3/23/2010 20:50	957702	10-2012		2	LANL	USE	S
EXS03220115.wiff	247904013	LER	3/23/2010 21:06	957702	10-2012		2	LANL	USE	S
EXS03220116.wiff	247904014	LER	3/23/2010 21:22	957702	10-2012		2	LANL	USE	S
EXS03220117.wiff	WXXCCV	LER	3/23/2010 21:37				1		USE	C
EXS03220118.wiff	XIBLK14	LER	3/23/2010 21:53				1		USE	B
EXS03220119.wiff	WXXCRI	LER	3/23/2010 22:09				1		USE	C
EXS03220120.wiff	247904015	LER	3/23/2010 22:24	957702	10-2012		2	LANL	DUSE-RA	S
EXS03220121.wiff	247904016	LER	3/23/2010 22:40	957702	10-2012		2	LANL	DUSE-RA	S
EXS03220122.wiff	247904017	LER	3/23/2010 22:56	957702	10-2012		2	LANL	DUSE-RA	S
EXS03220123.wiff	WXXCCV	LER	3/23/2010 23:12				1		DUSE	C
EXS03220124.wiff	XIBLK15	LER	3/23/2010 23:27				1		DUSE	B
EXS03220125.wiff	WXXCRI	LER	3/23/2010 23:43				1		DUSE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 816014

Revision No.: 1

DATA EXCEPTION REPORT

Mo. Day Yr. 11-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 957700	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 247897(10-2009) Application Issues: Failed Recovery for MSD/PSD Failed Recovery for LCS/LCSD Failed RPD for MS/MSD, or PS/PSD			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The LCS (1202053628) did not meet spike recovery limits for Tetra at 50.0% with recovery limits of 51-112% and 2,6-Diamino-4-nitrotoluene at 126% with recovery limits of 64-122%. 2. The MSD (1202053630) did not meet spike recovery limits for Tetra at 25.5%. The recovery limits are 36-124%. 3. The MS/MSD pair (1202053629/630) did not meet RPD acceptance limits for Tetra at 42.8%. The acceptance limits are 0-30%.		1. While Tetra did not meet in-house recovery limits, it did meet the DOD marginal exceedance limits of 41-122%. While the LCS exhibited a high bias, both the MS and MSD met acceptance limits for 2,6-Diamino-4-nitrotoluene. 2,6-Diamino-4-nitrotoluene was not detected in the associated samples. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative. 2. While the MS met acceptance limits, the spike recovery was biased low. Since similar recoveries were observed, the noted exception is attributed to sample matrix interference. The LCS met the DOD marginal exceedance limits; therefore, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative. 3. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to variances in the extraction process. 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 10-2009**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls byECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 958628
Prep Batch Number: 958614

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247897001	RE15-10-7896
247897002	RE15-10-7894
247897003	RE15-10-7900
247897004	RE15-10-7898
247897005	RE15-10-7897
247897006	RE15-10-7895
247897007	RE15-10-7899
247897008	RE15-10-7893
1202055920	Method Blank (MB)
1202055921	Laboratory Control Sample (LCS)
1202055922	247897001(RE15-10-7896) Matrix Spike (MS)
1202055923	247897001(RE15-10-7896) 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.

One or more of the five quantified peaks did not meet the acceptance criteria in Aroclor-1254 and Aroclor-1260 standards analyzed for this SDG; however, the average concentration of the five quantitated peaks met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 247897001 (RE15-10-7896) was selected for the matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception 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 for the MS and MSD are from the same analytical column as the parent sample.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form 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
ECD1A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticideII)

Certification Statement

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

Review Validation

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

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

Reviewer: Jimmy Cao Date: 3/23/10

Roadmap for LANL 10-2009 PCB

This roadmap was analyzed by YIP00818 on 03-03-2010, 09:22.

This roadmap was reviewed by jim01140 on 03-05-2010, 08:51.

This roadmap was packaged by yml on 03-22-2010, 12:02.

This roadmap was validated by jim01140 on 03-23-2010, 09:56.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublst	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06066001.d	247897001	sample	02-MAR-2010	17:32	10-2009.sub	RE15-10-7896	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06366301.d	247897002	sample	02-MAR-2010	18:10	10-2009.sub	RE15-10-7894	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06466401.d	247897003	sample	02-MAR-2010	18:23	10-2009.sub	RE15-10-7900	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06566501.d	247897004	sample	02-MAR-2010	18:35	10-2009.sub	RE15-10-7898	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06666601.d	247897005	sample	02-MAR-2010	18:48	10-2009.sub	RE15-10-7897	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06766701.d	247897006	sample	02-MAR-2010	19:01	10-2009.sub	RE15-10-7895	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06866801.d	247897007	sample	02-MAR-2010	19:13	10-2009.sub	RE15-10-7899	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06966901.d	247897008	sample	02-MAR-2010	19:26	10-2009.sub	RE15-10-7893	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublst	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06066001.d	247897001	sample	02-MAR-2010	17:32	10-2009.sub	RE15-10-7896	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06366301.d	247897002	sample	02-MAR-2010	18:10	10-2009.sub	RE15-10-7894	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06466401.d	247897003	sample	02-MAR-2010	18:23	10-2009.sub	RE15-10-7900	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06566501.d	247897004	sample	02-MAR-2010	18:35	10-2009.sub	RE15-10-7898	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06666601.d	247897005	sample	02-MAR-2010	18:48	10-2009.sub	RE15-10-7897	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06766701.d	247897006	sample	02-MAR-2010	19:01	10-2009.sub	RE15-10-7895	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06866801.d	247897007	sample	02-MAR-2010	19:13	10-2009.sub	RE15-10-7899	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b06966901.d	247897008	sample	02-MAR-2010	19:26	10-2009.sub	RE15-10-7893	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublst	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b042f4201-1.d	1202055920	sub	02-MAR-2010	13:58	10-2009.sub	PBLK01	1.00000	958628	
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b043f4301-1.d	1202055921	lcs	02-MAR-2010	14:08	10-2009.sub	PBLK01LCS	1.00000	958628	
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b061f6101.d	1202055922	ms	02-MAR-2010	17:45	10-2009.sub	RE15-10-7896MS	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030210.b062f6201.d	1202055923	msd	02-MAR-2010	17:58	10-2009.sub	RE15-10-7896MSD	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smpid	sampletype	mgdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecdl/a/030210.b/042b4201-1.d	1202055920	mb	02-MAR-2010	13.58	10-2009.sub	PBLK01	1.00000	958628	
<input type="checkbox"/>	N	/chem/ecdl/a/030210.b/043b4301-1.d	1202055921	ls	02-MAR-2010	14.08	10-2009.sub	PBLK01LCS	1.00000	958628	
<input type="checkbox"/>	N	/chem/ecdl/a/030210.b/061b6101.d	1202055922	ms	02-MAR-2010	17.45	10-2009.sub	RE15-10-7896MS	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdl/a/030210.b/062b6201.d	1202055923	msd	02-MAR-2010	17.58	10-2009.sub	RE15-10-7896MSD	1.00000	958628	UPLOAD BOTH COLUMNS, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897008

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 28
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7893
Batch ID: 958628
Run Date: 03/02/2010 19:26
Prep Date: 03/01/2010 11:47
Data File: 069f6901.d
069b6901.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.63	ug/kg	1.54	4.63	1
11104-28-2	Aroclor-1221	U	4.63	ug/kg	1.54	4.63	1
11141-16-5	Aroclor-1232	U	4.63	ug/kg	1.54	4.63	1
53469-21-9	Aroclor-1242	U	4.63	ug/kg	1.54	4.63	1
12672-29-6	Aroclor-1248	U	4.63	ug/kg	1.54	4.63	1
11097-69-1	Aroclor-1254	U	4.63	ug/kg	1.54	4.63	1
11096-82-5	Aroclor-1260	U	4.63	ug/kg	1.54	4.63	1

PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-2009
Lab Sample ID: 247897002

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.09 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 26.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7894
Batch ID: 958628
Run Date: 03/02/2010 18:10
Prep Date: 03/01/2010 11:47
Data File: 063f6301.d
063b6301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.55	ug/kg	1.51	4.55	1
11104-28-2	Aroclor-1221	U	4.55	ug/kg	1.51	4.55	1
11141-16-5	Aroclor-1232	U	4.55	ug/kg	1.51	4.55	1
53469-21-9	Aroclor-1242	U	4.55	ug/kg	1.51	4.55	1
12672-29-6	Aroclor-1248	U	4.55	ug/kg	1.51	4.55	1
11097-69-1	Aroclor-1254	J	2.20	ug/kg	1.51	4.55	1
11096-82-5	Aroclor-1260	U	4.55	ug/kg	1.51	4.55	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897006

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7895
Batch ID: 958628
Run Date: 03/02/2010 19:01
Prep Date: 03/01/2010 11:47
Data File: 067f6701.d
067b6701.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQ1/LOQ	Column
12674-11-2	Aroclor-1016	U	3.69	ug/kg	1.23	3.69	1
11104-28-2	Aroclor-1221	U	3.69	ug/kg	1.23	3.69	1
11141-16-5	Aroclor-1232	U	3.69	ug/kg	1.23	3.69	1
53469-21-9	Aroclor-1242	U	3.69	ug/kg	1.23	3.69	1
12672-29-6	Aroclor-1248	U	3.69	ug/kg	1.23	3.69	1
11097-69-1	Aroclor-1254	U	3.69	ug/kg	1.23	3.69	1
11096-82-5	Aroclor-1260	U	3.69	ug/kg	1.23	3.69	1

PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897001

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 5.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7896
Batch ID: 958628
Run Date: 03/02/2010 17:32
Prep Date: 03/01/2010 11:47
Data File: 060f6001.d
060b6001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.54	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260	U	3.54	ug/kg	1.18	3.54	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
 Lab Sample ID: 247897005

Date Collected: 02/18/2010 12:00
 Date Received: 02/24/2010 08:50
 Client: LANL010
 Method: SW846 8082
 Inst: ECD1A.I
 Analyst: YS1
 Aliquot: 30 g
 Column: 1 CLP1
 2 CLP2

Matrix: R
 %Moisture: 16.2
 Project: LANL01004
 SOP Ref: GL-OA-E-040
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 1 mL
 Level: LOW

Client ID: RE15-10-7897
 Batch ID: 958628
 Run Date: 03/02/2010 18:48
 Prep Date: 03/01/2010 11:47
 Data File: 066f6601.d
 066b6601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.98	ug/kg	1.32	3.98	1
11104-28-2	Aroclor-1221	U	3.98	ug/kg	1.32	3.98	1
11141-16-5	Aroclor-1232	U	3.98	ug/kg	1.32	3.98	1
53469-21-9	Aroclor-1242	U	3.98	ug/kg	1.32	3.98	1
12672-29-6	Aroclor-1248	U	3.98	ug/kg	1.32	3.98	1
11097-69-1	Aroclor-1254		9.30	ug/kg	1.32	3.98	1
11096-82-5	Aroclor-1260		7.20	ug/kg	1.32	3.98	1

PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-2009
Lab Sample ID: 247897004

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 15.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7898
Batch ID: 958628
Run Date: 03/02/2010 18:35
Prep Date: 03/01/2010 11:47
Data File: 065f6501.d
065b6501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.94	ug/kg	1.31	3.94	1
11104-28-2	Aroclor-1221	U	3.94	ug/kg	1.31	3.94	1
11141-16-5	Aroclor-1232	U	3.94	ug/kg	1.31	3.94	1
53469-21-9	Aroclor-1242	U	3.94	ug/kg	1.31	3.94	1
12672-29-6	Aroclor-1248	U	3.94	ug/kg	1.31	3.94	1
11097-69-1	Aroclor-1254	JP	3.50	ug/kg	1.31	3.94	1
11096-82-5	Aroclor-1260	J	2.60	ug/kg	1.31	3.94	1

PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-2009
Lab Sample ID: 247897007

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
 2 CLP2

Matrix: R
%Moisture: 18.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7899
Batch ID: 958628
Run Date: 03/02/2010 19:13
Prep Date: 03/01/2010 11:47
Data File: 068f6801.d
 068b6801.d

CAS No.	Parmname	Qualifier	Result	Units	MDI/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.08	ug/kg	1.36	4.08	1
11104-28-2	Aroclor-1221	U	4.08	ug/kg	1.36	4.08	1
11141-16-5	Aroclor-1232	U	4.08	ug/kg	1.36	4.08	1
53469-21-9	Aroclor-1242	U	4.08	ug/kg	1.36	4.08	1
12672-29-6	Aroclor-1248	U	4.08	ug/kg	1.36	4.08	1
11097-69-1	Aroclor-1254	U	4.08	ug/kg	1.36	4.08	1
11096-82-5	Aroclor-1260	U	4.08	ug/kg	1.36	4.08	1

PCB

Page 1 of 1

Certificate of Analysis

Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897003

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7900
Batch ID: 958628
Run Date: 03/02/2010 18:23
Prep Date: 03/01/2010 11:47
Data File: 064f6401.d
064b6401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.63	ug/kg	1.21	3.63	1
11104-28-2	Aroclor-1221	U	3.63	ug/kg	1.21	3.63	1
11141-16-5	Aroclor-1232	U	3.63	ug/kg	1.21	3.63	1
53469-21-9	Aroclor-1242	U	3.63	ug/kg	1.21	3.63	1
12672-29-6	Aroclor-1248	U	3.63	ug/kg	1.21	3.63	1
11097-69-1	Aroclor-1254	U	3.63	ug/kg	1.21	3.63	1
11096-82-5	Aroclor-1260	U	3.63	ug/kg	1.21	3.63	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-2009

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 #
1202055920	MB for batch 958614	58	57	75	69
1202055921	LCS for batch 958614	68	65	76	71
247897001	RE15-10-7896	42	42	62	55
1202055922	RE15-10-7896MS	47	47	65	58
1202055923	RE15-10-7896MSD	52	52	66	60
247897002	RE15-10-7894	50	48	56	55
247897003	RE15-10-7900	54	53	66	59
247897004	RE15-10-7898	50	48	54	51
247897005	RE15-10-7897	48	47	59	54
247897006	RE15-10-7895	50	46	63	57
247897007	RE15-10-7899	56	54	66	61
247897008	RE15-10-7893	48	47	53	50

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: 10-2009

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 958614

Matrix: SOIL

Lab Sample ID:1202055921

Instrument: ECD1A.I

Analysis Date: 03/02/2010 14:08

Dilution: 1

Analyst: YS1

Prep Batch ID: 958614

Inj. Vol: 1 uL

Batch ID: 958628

CAS No	Paramname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	24.5	74	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	30.8	92	45-118

PCB

Page 1 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-2009

Sample Type: Matrix Spike

Client ID: RE15-10-7896MS

Matrix: R

Lab Sample ID:1202055922

%Moisture: 5.9

Instrument: ECD1A.I

Analysis Date: 03/02/2010 17:45

Dilution: 1

Analyst: YS1

Prep Batch II 958614

Inj. Vol: 1 uL

Batch ID: 958628

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	35.4	0.00 U	18.6	52	23-119
11096-82-5	MS Aroclor-1260	35.4	0.00 U	26.1	74	28-124

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-2009

Client ID: RE15-10-7896MSD

Lab Sample ID: 1202055923

Instrument: ECD1A.I

Analyst: YS1

Inj. Vol: 1 uL

Sample Type: Matrix Spike Duplicate

Matrix: R

%Moisture: 5.9

Analysis Date: 03/02/2010 17:58

Dilution: 1

Pre Batch ID: 958614

Batch ID: 958628

CAS No	Paramname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	Acceptance RPD	Acceptance Limits
12674-11-2	MSD Aroclor-1016	35.4	0.00 U	19.1	54	23-119	3	0-28
11096-82-5	MSD Aroclor-1260	35.4	0.00 U	26.0	73	28-124	0	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-2009	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 958614	Instrument ID:	ECD1A.I_2	Data File:	042b4201-1.d
Lab Sample ID:	1202055920		ECD1A.I_1		042f4201-1.d
Column:	CLP2	Prep Date:	03/01/2010 11:47	Analyzed:	03/02/10 13:58
	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 958614	1202055921	043f4301-1.d 043b4301-1.d	03/02/10	1408
02 RE15-10-7896	247897001	060f6001.d 060b6001.d	03/02/10	1732
03 RE15-10-7896MS	1202055922	061f6101.d 061b6101.d	03/02/10	1745
04 RE15-10-7896MSD	1202055923	062f6201.d 062b6201.d	03/02/10	1758
05 RE15-10-7894	247897002	063f6301.d 063b6301.d	03/02/10	1810
06 RE15-10-7900	247897003	064f6401.d 064b6401.d	03/02/10	1823
07 RE15-10-7898	247897004	065f6501.d 065b6501.d	03/02/10	1835
08 RE15-10-7897	247897005	066f6601.d 066b6601.d	03/02/10	1848
09 RE15-10-7895	247897006	067f6701.d 067b6701.d	03/02/10	1901
10 RE15-10-7899	247897007	068f6801.d 068b6801.d	03/02/10	1913
11 RE15-10-7893	247897008	069f6901.d 069b6901.d	03/02/10	1926

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897008

Client ID: RE15-10-7893
Batch ID: 958628
Run Date: 03/02/2010 19:26
Prep Date: 03/01/2010 11:47
Data File: 069f6901.d
069b6901.d

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 28
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	4.63	ug/kg	1.54	4.63	1
11104-28-2	Aroclor-1221	U	4.63	ug/kg	1.54	4.63	1
11141-16-5	Aroclor-1232	U	4.63	ug/kg	1.54	4.63	1
53469-21-9	Aroclor-1242	U	4.63	ug/kg	1.54	4.63	1
12672-29-6	Aroclor-1248	U	4.63	ug/kg	1.54	4.63	1
11097-69-1	Aroclor-1254	U	4.63	ug/kg	1.54	4.63	1
11096-82-5	Aroclor-1260	U	4.63	ug/kg	1.54	4.63	1

Data File: /chem/ecd1a.i/030210.b/069f6901.d
Report Date: 03-Mar-2010 08:06

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/030210.b/069f6901.d

Lab Smp Id: 247897008

Client Smp ID: RE15-10-7893

Inj Date : 02-MAR-2010 19:26

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247897008|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7893|||

Comment :

Method : /chem/ecd1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 69

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	27.97430	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
11.4	1.918	1.918	0.000	41636119	96.6850	4.5 80.00- 120.00	100.00

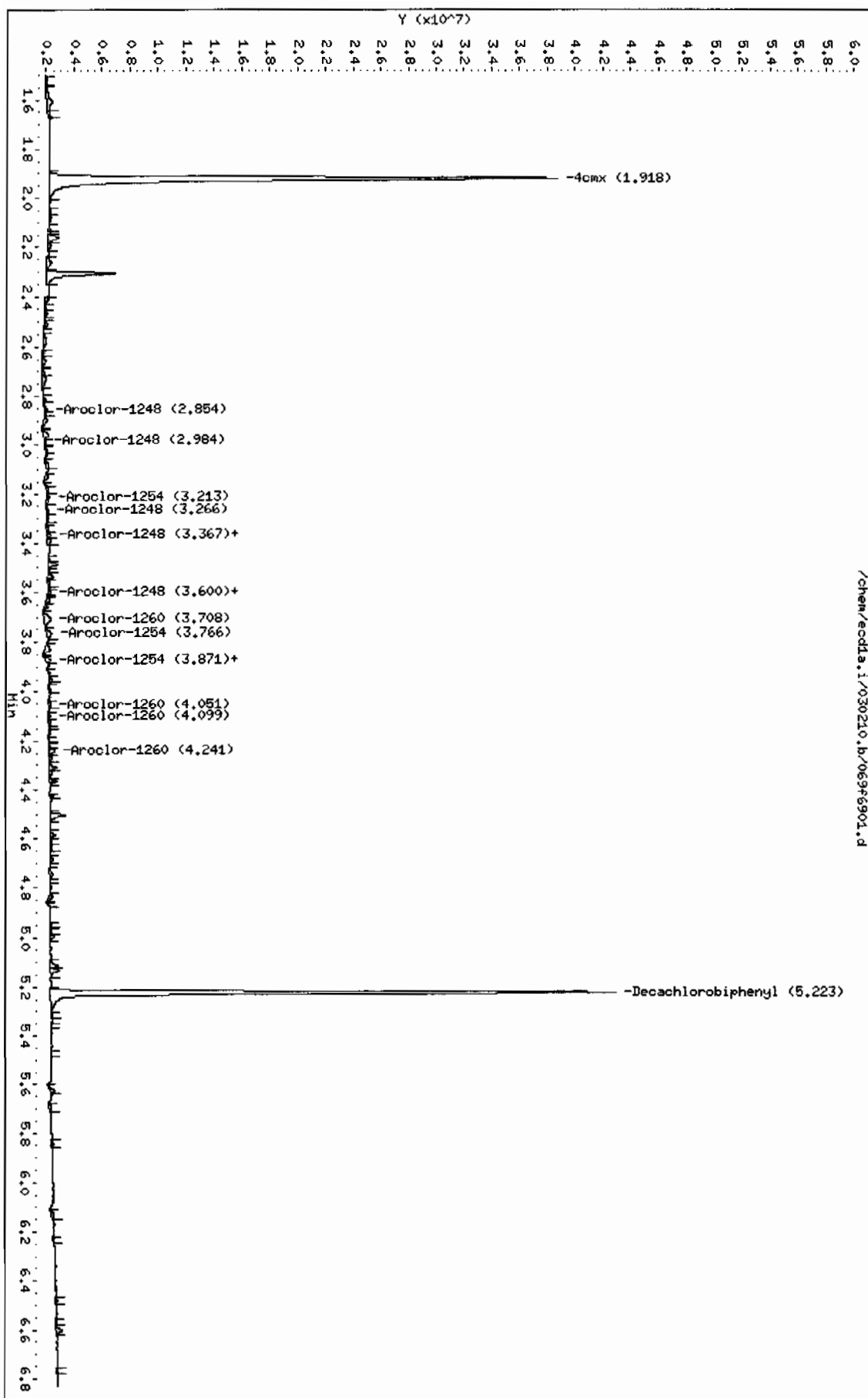
12	5.223	5.224	-0.001	32853643	106.914	4.9 80.00- 120.00	100.00

\$ 11 4cmx CAS #: 877-09-8

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3

Data File: /chem/ecdda.i/030210.b/069f6901.d
Date: 02-MAR-2010 19:26
Client ID: RE15-10-7893
Sample Info: 1247897008111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdla.i/030210.b/069b6901.d
 Lab Smp Id: 247897008 Client Smp ID: RE15-10-7893
 Inj Date : 02-MAR-2010 19:26
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |247897008|1|
 Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7893|||
 Comment :
 Method : /chem/ecdla.i/030210.b/ECD1-B-8082-022210.m
 Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 69
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2009.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	27.97430	% Moisture

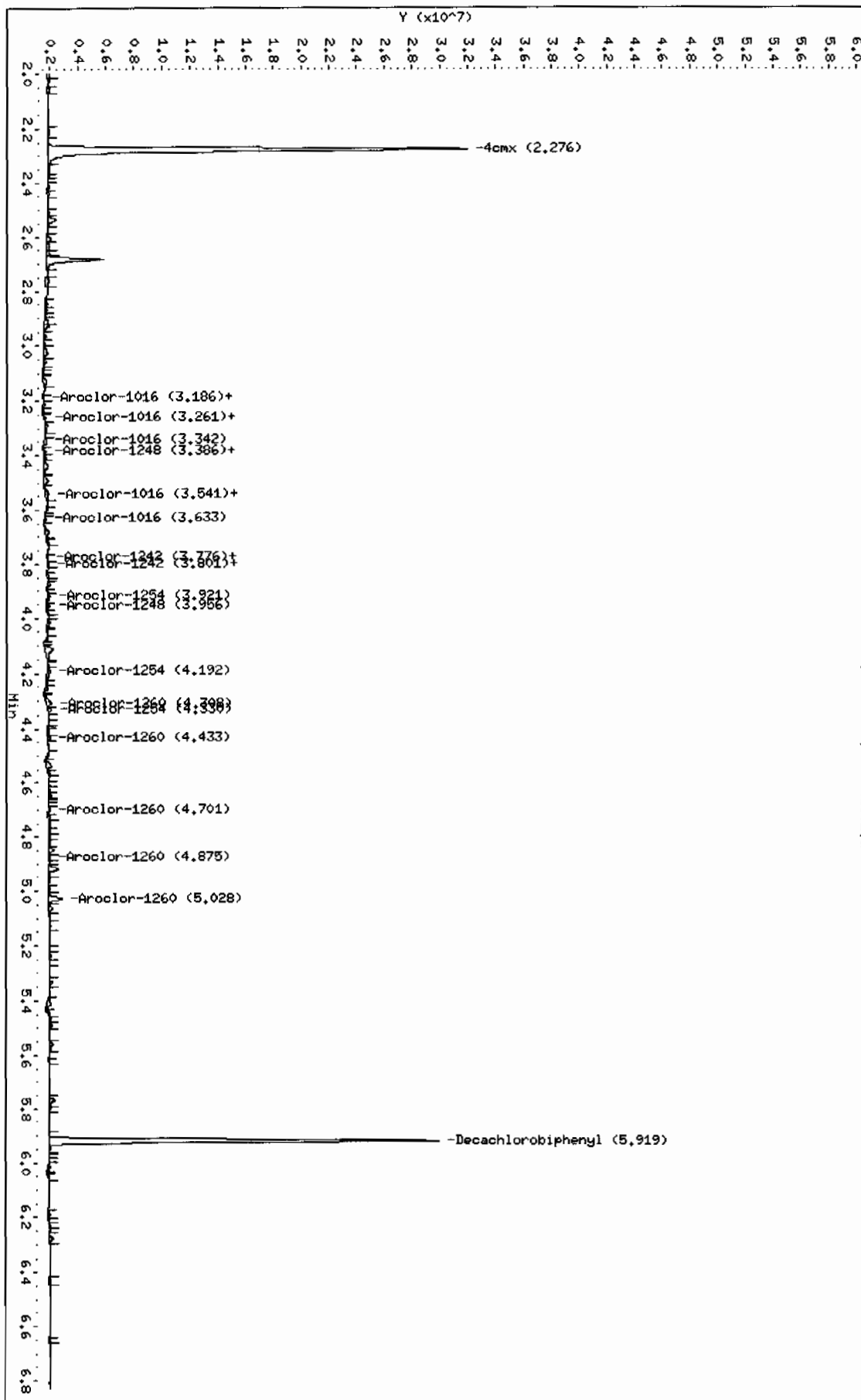
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx						
2.276	2.277	-0.001	28208654	94.8519	4.4 80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl						
5.919	5.920	-0.001	21089127	99.7130	4.6 80.00- 120.00	100.00

Data File: /chem/ecdl1a.1/030210.b/069b6901.d
 Date: 02-MAR-2010 19:26
 Client ID: RE15-10-7893
 Sample Info: 124789700811
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdl1a.i
 Operator: YSI
 Column diameter: 0.25

/chem/ecdl1a.1/030210.b/069b6901.d



PCB

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Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897002

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.09 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 26.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7894
Batch ID: 958628
Run Date: 03/02/2010 18:10
Prep Date: 03/01/2010 11:47
Data File: 063f6301.d
063b6301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.55	ug/kg	1.51	4.55	1
11104-28-2	Aroclor-1221	U	4.55	ug/kg	1.51	4.55	1
11141-16-5	Aroclor-1232	U	4.55	ug/kg	1.51	4.55	1
53469-21-9	Aroclor-1242	U	4.55	ug/kg	1.51	4.55	1
12672-29-6	Aroclor-1248	U	4.55	ug/kg	1.51	4.55	1
11097-69-1	Aroclor-1254	J	2.20	ug/kg	1.51	4.55	1
11096-82-5	Aroclor-1260	U	4.55	ug/kg	1.51	4.55	1

Data File: /chem/ecdl1a.i/030210.b/063f6301.d
Report Date: 03-Mar-2010 08:02

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/063f6301.d

Lab Smp Id: 247897002

Client Smp ID: RE15-10-7894

Inj Date : 02-MAR-2010 18:10

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247897002|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7894|||

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 63

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	26.92690	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
1.919	1.918	0.001	42901800 99.6241	4.5	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.223	5.224	-0.001	34624588 112.677	5.1	80.00- 120.00	100.00

6 Aroclor-1254				CAS #: 11097-69-1		
3.214	3.216	-0.002	369276 30.7542	1.4	80.00- 120.00	100.00(a)
3.369	3.371	-0.002	568514 35.9088	1.6	116.46- 156.46	153.95
3.601	3.605	-0.004	767236 39.2971	1.8	156.90- 196.90	207.77
3.764	3.768	-0.004	1098696 79.5627	3.6	112.59- 152.59	297.53

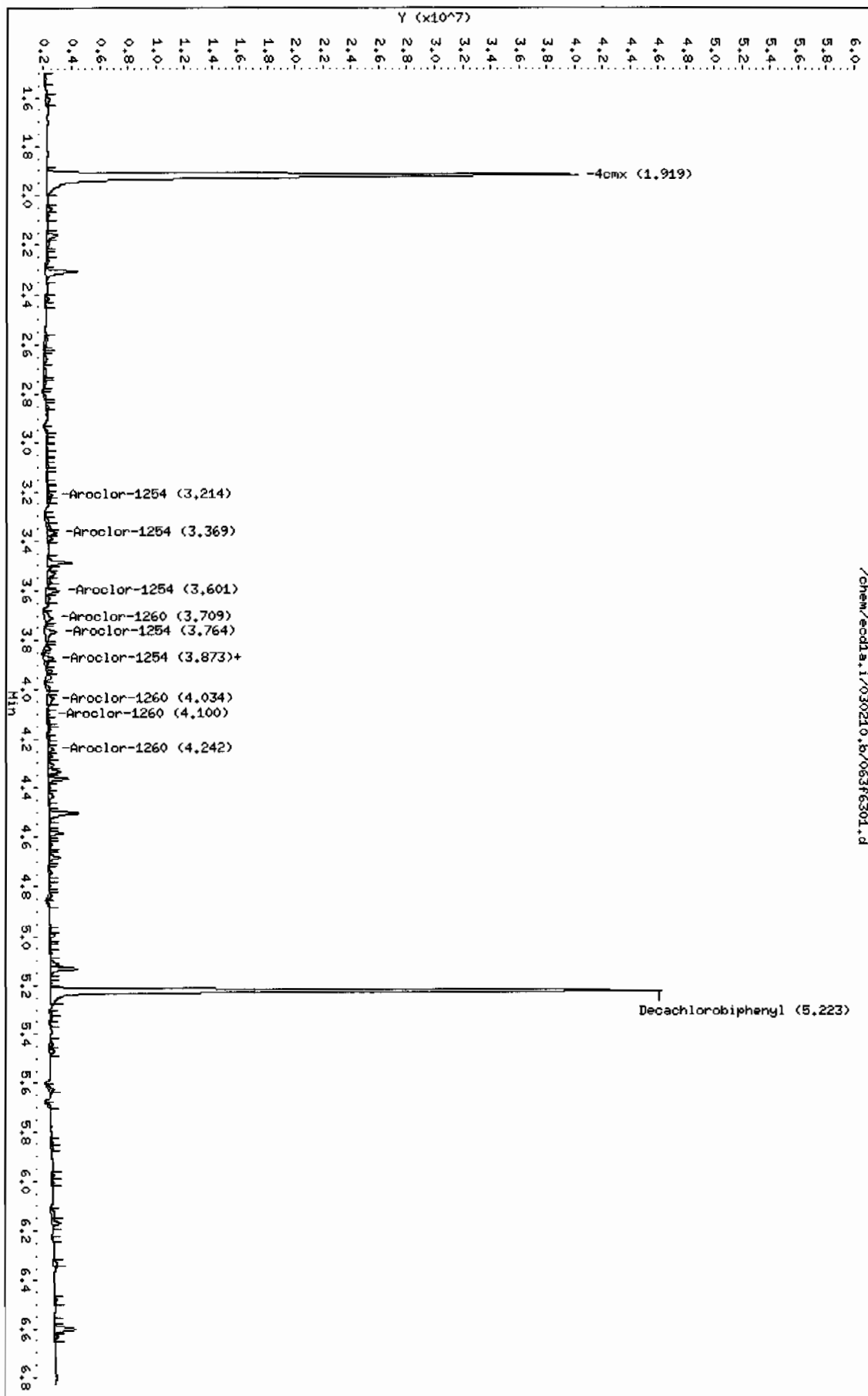
		CONCENTRATIONS					
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)							
3.873	3.878	-0.005	767704	53.7570	2.4	105.57- 145.57	207.89
Average of Peak Concentrations =				2.2			

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ecdda.i/030210.b/063f6301.d
Date : 02-MAR-2010 18:10
Client ID: RE15-10-7894
Sample Info: 1247897002111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030210.b/063b6301.d
Report Date: 03-Mar-2010 08:03

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/030210.b/063b6301.d
Lab Smp Id: 247897002 Client Smp ID: RE15-10-7894
Inj Date : 02-MAR-2010 18:10
Operator : YSl Inst ID: ecd1a.i
Smp Info : |247897002|1|
Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7894|||
Comment :
Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m
Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	26.92690	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
-----	-----	-----	-----	-----	-----	-----
\$ 11 4cmx CAS #: 877-09-8						
2.277	2.277	0.000	28768890	96.7357	4.4 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.919	5.920	-0.001	23472631	110.983	5.0 80.00- 120.00	100.00

6 Aroclor-1254 CAS #: 11097-69-1						
3.383	3.381	0.002	286230	47.1673	2.1 80.00- 120.00	100.00(a)
3.802	3.804	-0.002	296726	27.6211	1.2 161.75- 201.75	103.67
3.919	3.920	-0.001	419480	36.0277	1.6 182.10- 222.10	146.55
4.194	4.196	-0.002	558314	35.1170	1.6 263.97- 303.97	195.06

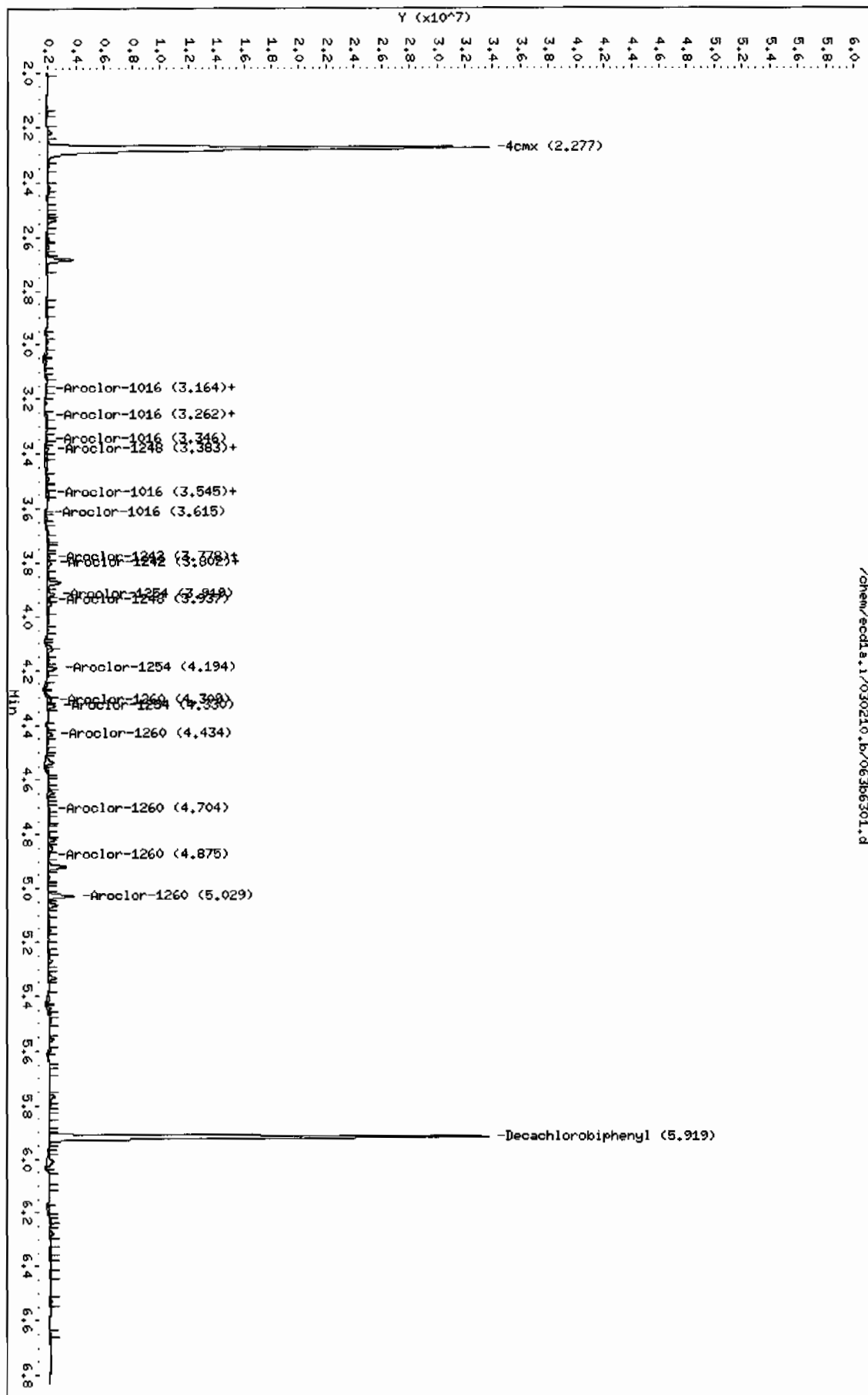
CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)						
4.330	4.333	-0.003	430431	35.9434	1.6	188.35- 228.35 150.38
Average of Peak Concentrations =					1.6	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ecda.i/030210.b/063b6301.d
 Date: 02-MAR-2010 18:10
 Client ID: RE15-10-7894
 Sample Info: 1247897002111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecda.i
 Operator: YSL
 Column diameter: 0.25



PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-2009
Lab Sample ID: 247897006Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.69	ug/kg	1.23	3.69	1
11104-28-2	Aroclor-1221	U	3.69	ug/kg	1.23	3.69	1
11141-16-5	Aroclor-1232	U	3.69	ug/kg	1.23	3.69	1
53469-21-9	Aroclor-1242	U	3.69	ug/kg	1.23	3.69	1
12672-29-6	Aroclor-1248	U	3.69	ug/kg	1.23	3.69	1
11097-69-1	Aroclor-1254	U	3.69	ug/kg	1.23	3.69	1
11096-82-5	Aroclor-1260	U	3.69	ug/kg	1.23	3.69	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/030210.b/067f6701.d
Lab Smp Id: 247897006 Client Smp ID: RE15-10-7895
Inj Date : 02-MAR-2010 19:01
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |247897006|1|
Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7895|||
Comment :
Method : /chem/ecd1a.i/030210.b/ECD1-F-8082-022210.m
Meth Date : 03-Mar-2010 07:27 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 67
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	9.85910	% Moisture

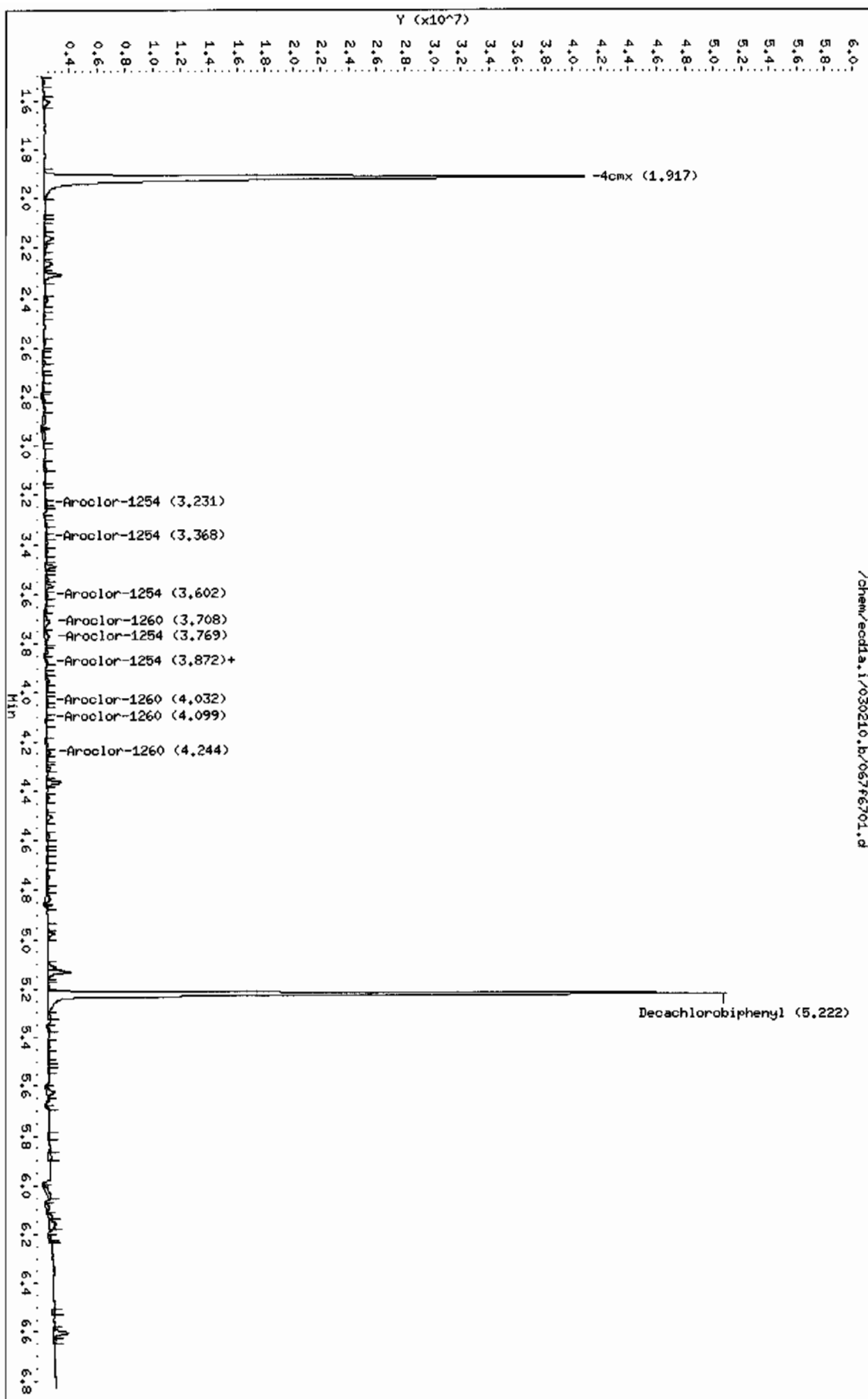
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
1.917	1.918	-0.001	43330681	100.620	3.7 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.222	5.224	-0.002	38544377	125.433	4.6 80.00- 120.00	100.00

Data File: /chem/eod1a.i/030210.b/0676701.d
 Date : 02-MAR-2010 19:01
 Client ID: RE15-10-7895
 Sample Info: 1247897006111
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: eod1a.i
 Operator: YS1
 Column diameter: 0.25



Data File: /chem/ecdl1a.i/030210.b/067b6701.d
Report Date: 03-Mar-2010 07:31

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/067b6701.d

Lab Smp Id: 247897006

Client Smp ID: RE15-10-7895

Inj Date : 02-MAR-2010 19:01

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247897006|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7895|

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 03-Mar-2010 07:27 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 67

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	9.85910	% Moisture

Cpnd Variable

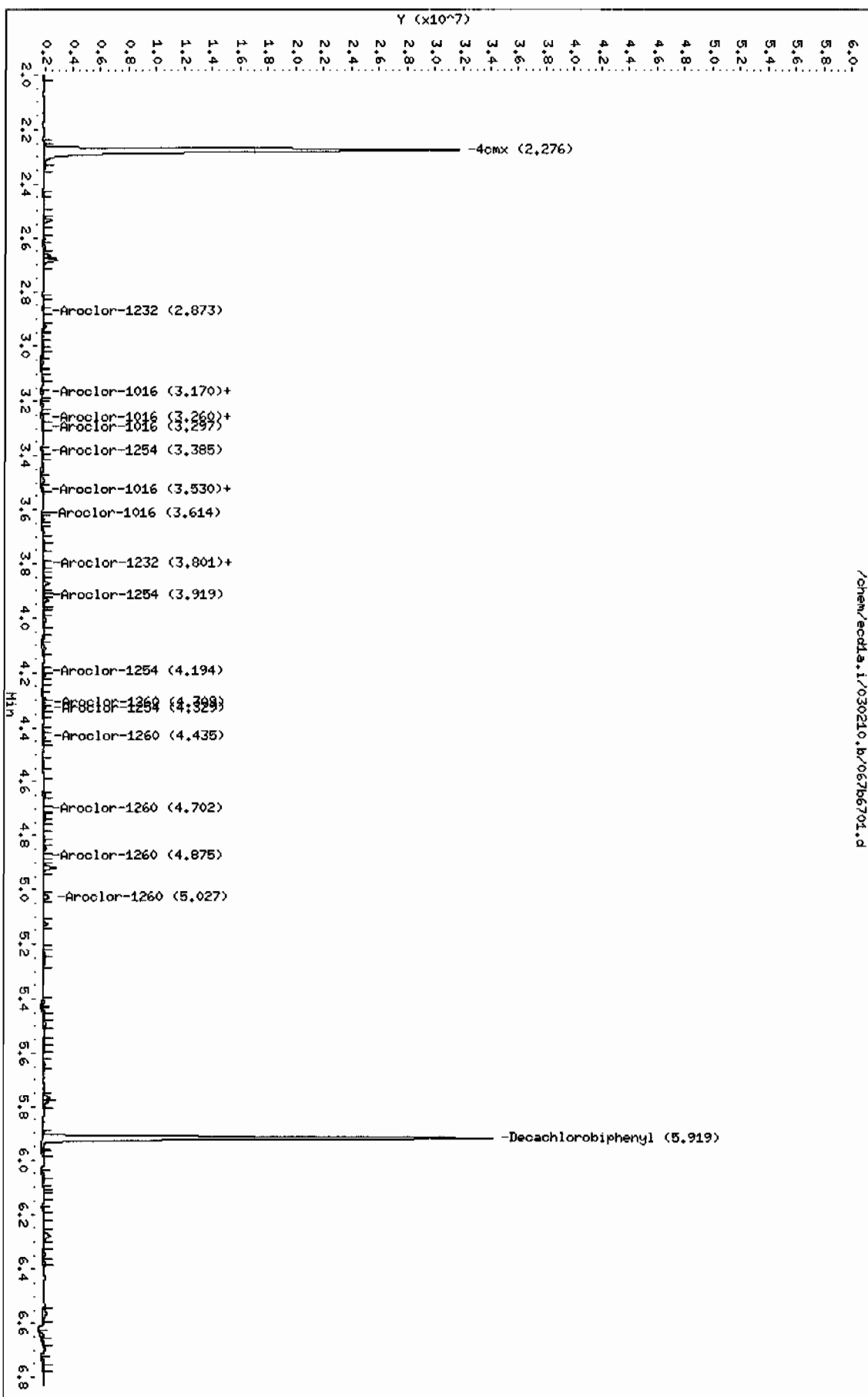
Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
2.276	2.277	-0.001	27330004	91.8974	3.4 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.919	5.920	-0.001	23970742	113.338	4.2 80.00- 120.00	100.00

Data File: /chem/ecdt.a.i/030210.b/067b6701.d
Date : 02-MAR-2010 19:01
Client ID: RE15-10-7895
Sample Info: 1247897006111
Volume Injected (ul): 1.0
Column phase: CLP2

Instrument: ecdt.a.i
Operator: YSI
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897001

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 5.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7896
Batch ID: 958628
Run Date: 03/02/2010 17:32
Prep Date: 03/01/2010 11:47
Data File: 060f6001.d
060b6001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.54	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260	U	3.54	ug/kg	1.18	3.54	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/060f6001.d
Lab Smp Id: 247897001 Client Smp ID: RE15-10-7896
Inj Date : 02-MAR-2010 17:32
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247897001|1|
Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7896|||
Comment :
Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m
Meth Date : 03-Mar-2010 07:27 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.93350	% Moisture

Cpnd Variable Local Compound Variable

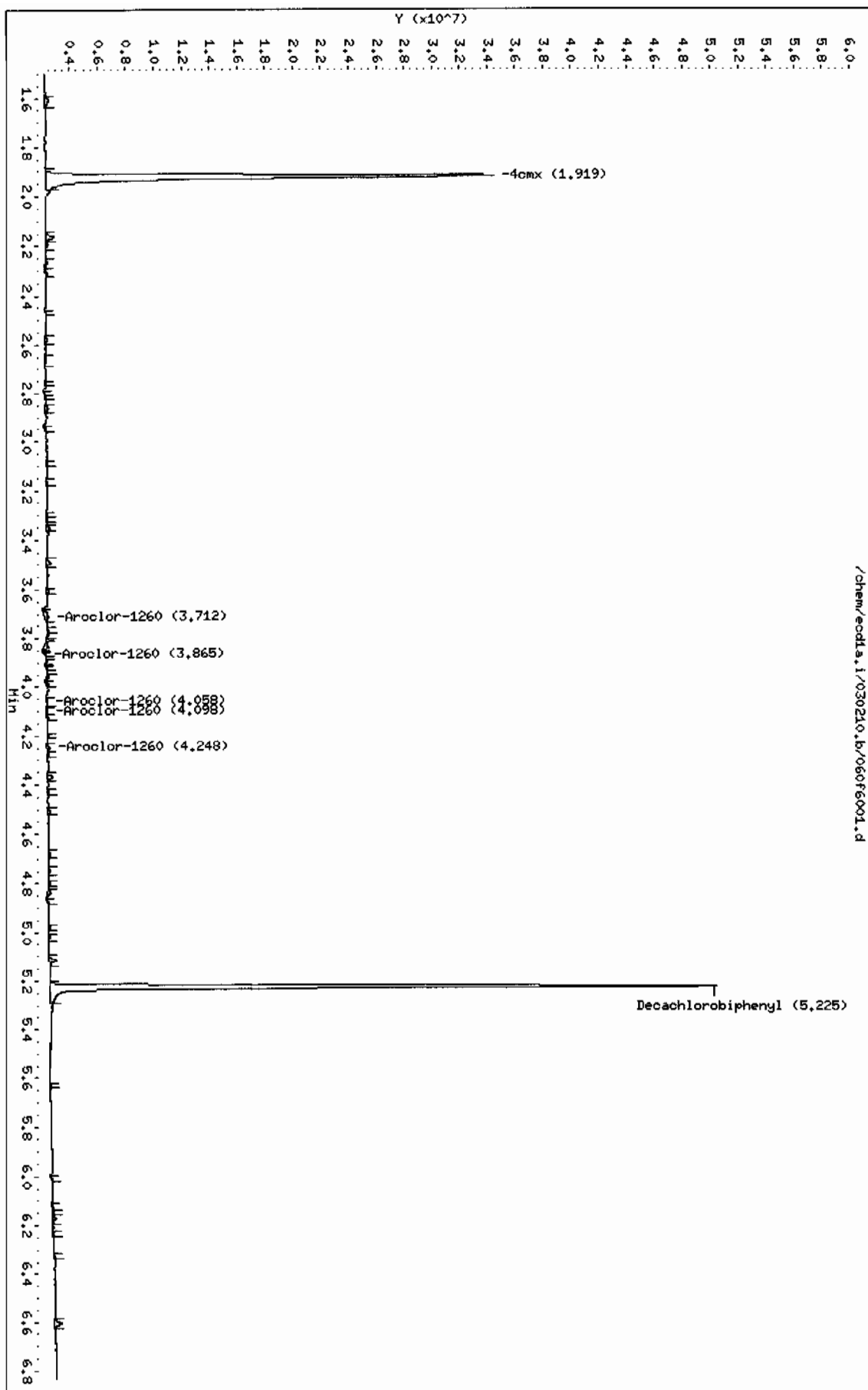
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
1.919	1.918	0.001	36587413	84.9612	3.0 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.225	5.224	0.001	38348245	124.795	4.4 80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030210.b/060f6001.d
Date : 02-MAR-2010 17:32
Client ID: RE15-10-7896
Sample Info: 124789700111
Volume Injected (uL): 1.0
Column phase: CLP4

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

Page 1



Data File: /chem/ecd1a.i/030210.b/060b6001.d
 Report Date: 03-Mar-2010 07:27

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd1a.i/030210.b/060b6001.d
 Lab Smp Id: 247897001 Client Smp ID: RE15-10-7896
 Inj Date : 02-MAR-2010 17:32
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |247897001|1|
 Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7896|||
 Comment :
 Method : /chem/ecd1a.i/030210.b/ECD1-B-8082-022210.m
 Meth Date : 03-Mar-2010 07:27 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 60
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2009.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.93350	% Moisture

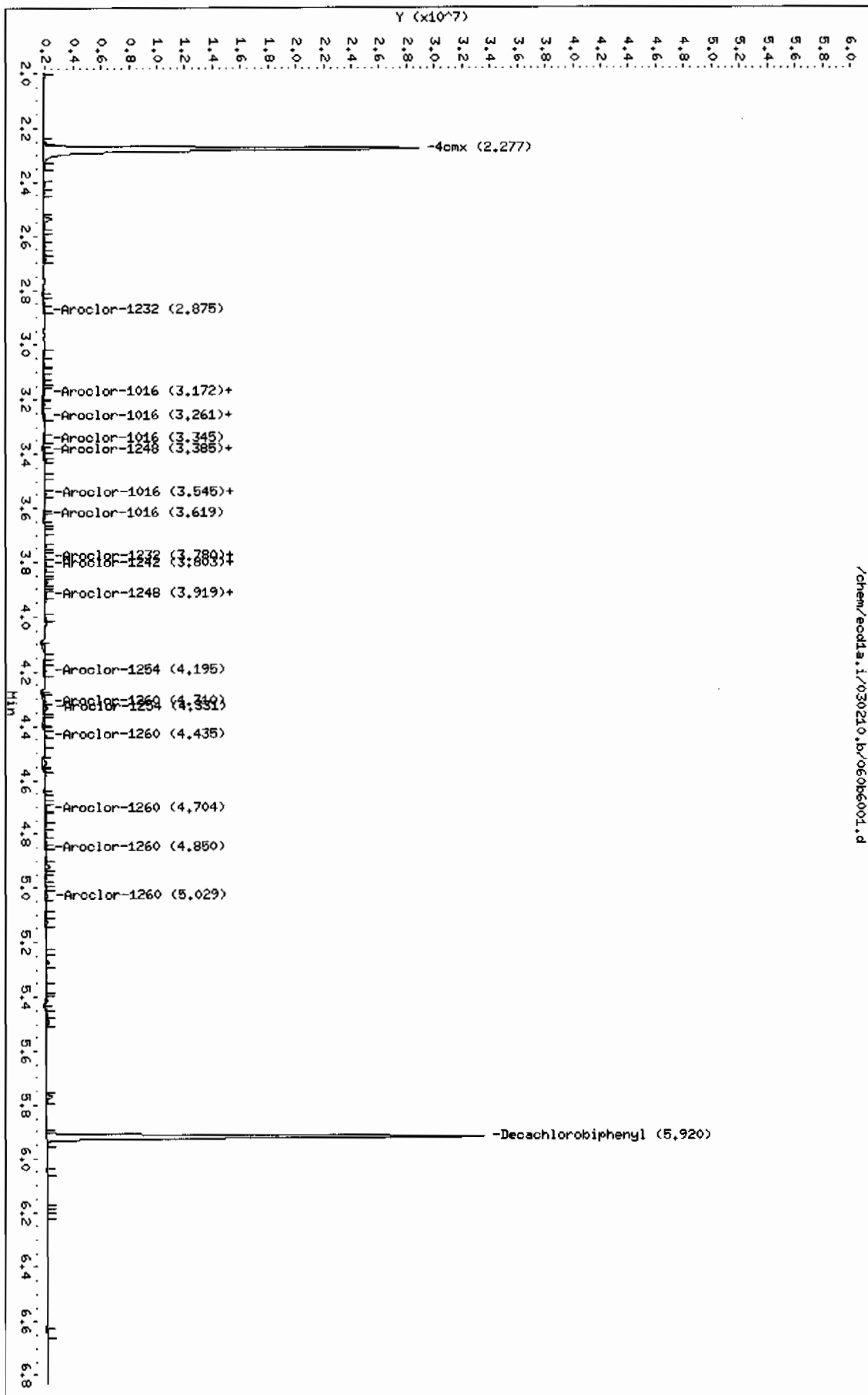
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
=====						
\$ 11 4cmx					CAS #: 877-09-8	
2.277	2.277	0.000	24996654	84.0515	3.0 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.920	5.920	0.000	23428058	110.772	3.9 80.00- 120.00	100.00

Data File: /chem/ecdia.i/030210.b/0606001.d
 Date: 02-MAR-2010 17:32
 Client ID: RELS-10-7896
 Sample Info: 1247897001.11
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdia.i
 Operator: YSL
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897005

Client ID: RE15-10-7897
Batch ID: 958628
Run Date: 03/02/2010 18:48
Prep Date: 03/01/2010 11:47
Data File: 066f6601.d
066b6601.d

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 16.2
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	3.98	ug/kg	1.32	3.98	1
11104-28-2	Aroclor-1221	U	3.98	ug/kg	1.32	3.98	1
11141-16-5	Aroclor-1232	U	3.98	ug/kg	1.32	3.98	1
53469-21-9	Aroclor-1242	U	3.98	ug/kg	1.32	3.98	1
12672-29-6	Aroclor-1248	U	3.98	ug/kg	1.32	3.98	1
11097-69-1	Aroclor-1254		9.30	ug/kg	1.32	3.98	1
11096-82-5	Aroclor-1260		7.20	ug/kg	1.32	3.98	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/066f6601.d

Lab Smp Id: 247897005

Client Smp ID: RE15-10-7897

Inj Date : 02-MAR-2010 18:48

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247897005|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7897|||

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 66

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	16.20100	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

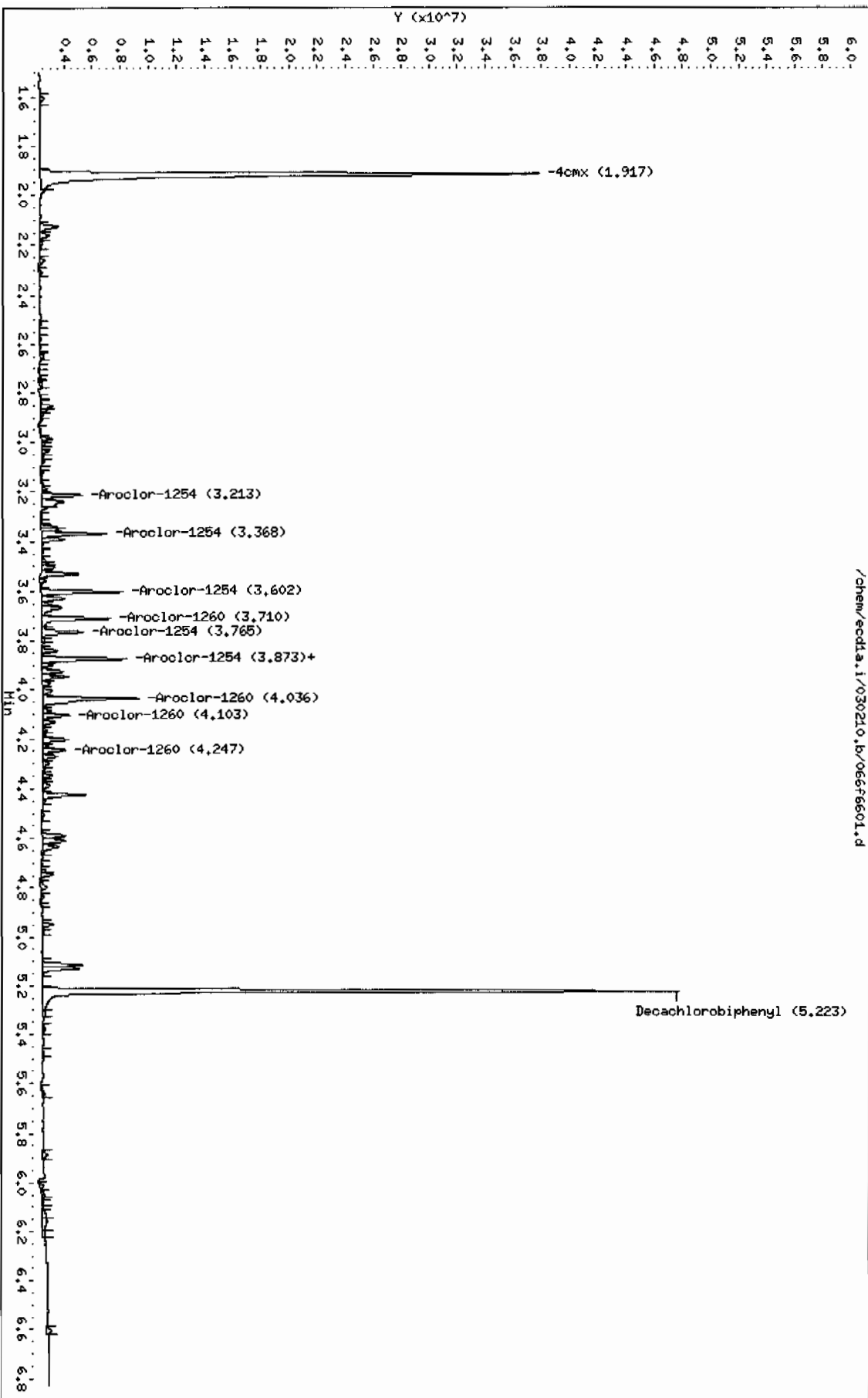
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
1.917	1.918	-0.001	40967916	95.1333	3.8 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.223	5.224	-0.001	36287466	118.089	4.7 80.00- 120.00	100.00
6 Aroclor-1254			CAS #: 11097-69-1			
3.213	3.216	-0.003	2216390	184.586	7.3 80.00- 120.00	100.00
3.368	3.371	-0.003	3483935	220.054	8.8 116.46- 156.46	157.19
3.602	3.605	-0.003	4232804	216.800	8.6 156.90- 196.90	190.98
3.765	3.768	-0.003	2569182	186.049	7.4 112.59- 152.59	115.92

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====		=====	=====	=====	
6 Aroclor-1254 (continued)								
3.873	3.878	-0.005	5133893	359.491	14.3	105.57- 145.57	231.63	
Average of Peak Concentrations =					9.3			

7 Aroclor-1260					CAS #: 11096-82-5			
3.710	3.712	-0.002	3989010	233.652	9.3	80.00- 120.00	100.00	
3.873	3.874	-0.001	5133893	217.138	8.6	129.01- 169.01	128.70	
4.036	4.037	-0.001	6785163	271.718	10.8	135.70- 175.70	170.10	
4.103	4.105	-0.002	1436801	99.7385	4.0	69.29- 109.29	36.02	
4.247	4.248	-0.001	1280881	88.7619	3.5	72.14- 112.14	32.11	
Average of Peak Concentrations =					7.2			

Data File: /chem/ecdda.i/030210.b/066f6601.d
Date: 02-MAR-2010 18:48
Client ID: REL5-10-7897
Sample Info: 124789700511
Volume Injected (ul): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/030210.b/066b6601.d
 Lab Smp Id: 247897005 Client Smp ID: RE15-10-7897
 Inj Date : 02-MAR-2010 18:48
 Operator : YSl Inst ID: ecd1a.i
 Smp Info : |247897005|1|
 Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7897|||
 Comment :
 Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m
 Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 66
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2009.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	16.20100	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	==	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.276	2.277	-0.001	28055401 94.3366	3.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.919	5.920	-0.001	22860103 108.086	4.3	80.00- 120.00	100.00

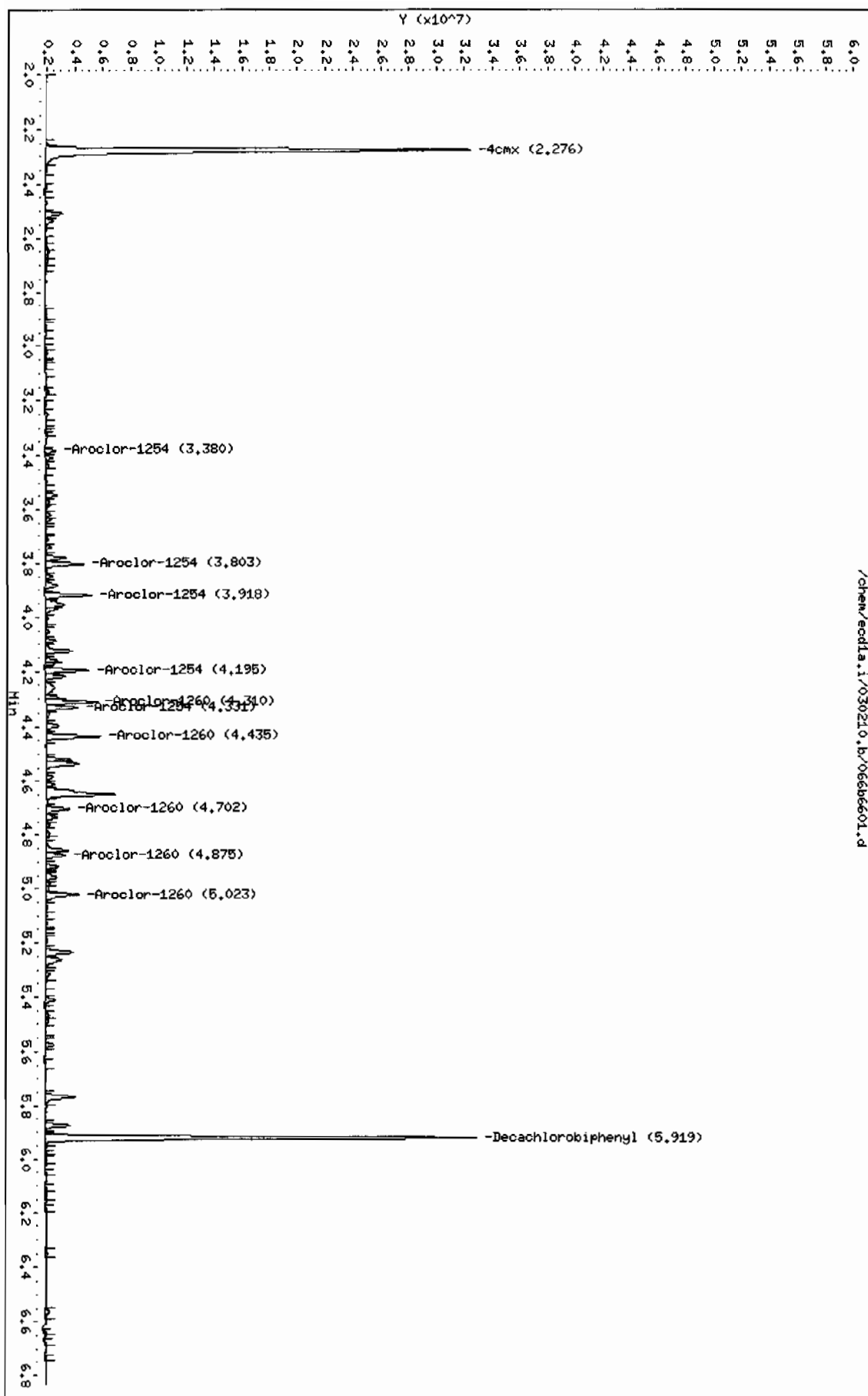
6 Aroclor-1254 CAS #: 11097-69-1						
3.380	3.381	-0.001	566482 93.3496	3.7	80.00- 120.00	100.00
3.803	3.804	-0.001	2217977 206.463	8.2	161.75- 201.75	391.54
3.918	3.920	-0.002	2410296 207.012	8.2	182.10- 222.10	425.48
4.195	4.196	-0.001	2181139 137.190	5.4	263.97- 303.97	385.03

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
=====							
6 Aroclor-1254 (continued)							
4.331	4.333	-0.002	1656056	138.290	5.5	188.35- 228.35	292.34
Average of Peak Concentrations =					6.2		

7 Aroclor-1260					CAS #: 11096-82-5		
4.310	4.312	-0.002	2726535	206.467	8.2	80.00- 120.00	100.00
4.435	4.436	-0.001	2764385	177.582	7.1	102.18- 142.18	101.39
4.702	4.702	0.000	1376544	116.228	4.6	71.47- 111.47	50.49
4.875	4.875	0.000	1080699	88.5732	3.5	74.86- 114.86	39.64
5.023	5.023	0.000	2123624	80.0547	3.2	192.08- 232.08	77.89
Average of Peak Concentrations =					5.3		

Data File: /chem/ecdl1.i/030210.b/066b6601.d
Date : 02-MAR-2010 18:48
Client ID: RE15-10-7897
Sample Info: 124789700511
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897004

Date Collected: 02/18/2010 12:00

Matrix: R

Date Received: 02/24/2010 08:50

%Moisture: 15.4

Client: LANL010

Project: LANL01004

Method: SW846 8082

SOP Ref: GL-OA-E-040

Inst: ECD1A.I

Dilution: 1

Client ID: RE15-10-7898

Batch ID: 958628

Run Date: 03/02/2010 18:35

Prep Date: 03/01/2010 11:47

Analyst: YS1

Inj. Vol: 1 uL

Aliquot: 30.03 g

Final Volume: 1 mL

Data File: 065f6501.d

Column: 1 CLP1

Level: LOW

065b6501.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.94	ug/kg	1.31	3.94	1
11104-28-2	Aroclor-1221	U	3.94	ug/kg	1.31	3.94	1
11141-16-5	Aroclor-1232	U	3.94	ug/kg	1.31	3.94	1
53469-21-9	Aroclor-1242	U	3.94	ug/kg	1.31	3.94	1
12672-29-6	Aroclor-1248	U	3.94	ug/kg	1.31	3.94	1
11097-69-1	Aroclor-1254	JP	3.50	ug/kg	1.31	3.94	1
11096-82-5	Aroclor-1260	J	2.60	ug/kg	1.31	3.94	1

Data File: /chem/ecdla.i/030210.b/065f6501.d
Report Date: 03-Mar-2010 08:05

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/065f6501.d
Lab Smp Id: 247897004 Client Smp ID: RE15-10-7898
Inj Date : 02-MAR-2010 18:35
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247897004|1|
Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7898|||
Comment :
Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m
Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 65
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	15.37790	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
11.4	1.918	1.918	0.000	42773411	99.3259	3.9 80.00- 120.00	100.00

12	5.222	5.224	-0.002	33271181	108.273	4.3 80.00- 120.00	100.00

6	3.214	3.216	-0.002	777261	64.7321	2.5 80.00- 120.00	100.00 (aM)
	3.367	3.371	-0.004	860365	54.3429	2.1 116.46- 156.46	110.69
	3.601	3.605	-0.004	1509619	77.3212	3.0 156.90- 196.90	194.22
	3.765	3.768	-0.003	1687880	122.229	4.8 112.59- 152.59	217.16

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
---	-----	-----	-----	-----	-----	-----	-----	-----
6 Aroclor-1254 (continued)								
3.872	3.878	-0.006	1840477 128.876		5.1	105.57- 145.57	236.79	
Average of Peak Concentrations =					3.5			

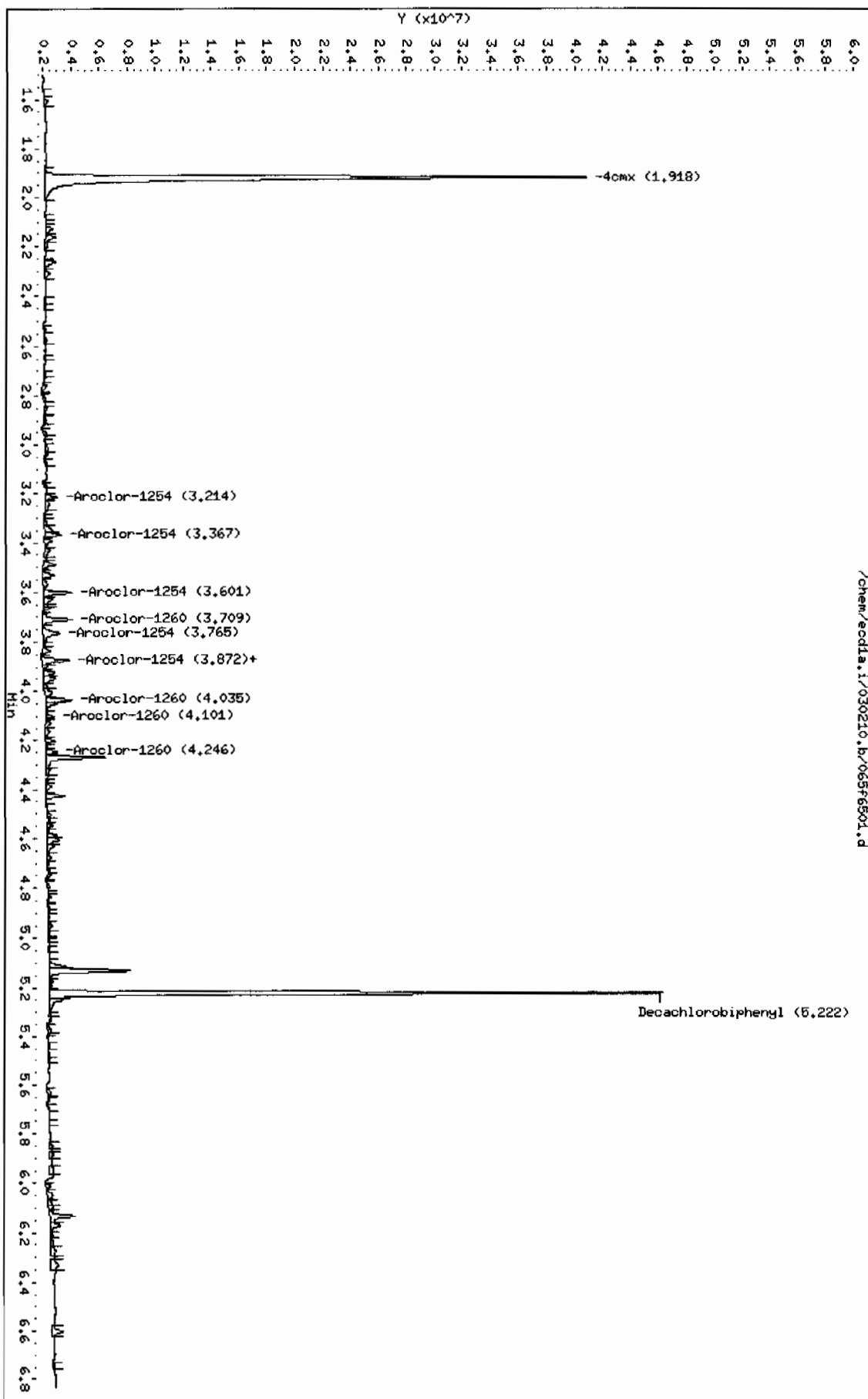
7 Aroclor-1260					CAS #: 11096-82-5			
3.709	3.712	-0.003	2027987 118.787		4.7	80.00- 120.00	100.00 (aM)	
3.872	3.874	-0.002	1840477 77.8430		3.1	129.01- 169.01	90.75	
4.035	4.037	-0.002	1504271 60.2399		2.4	135.70- 175.70	74.18	
4.101	4.105	-0.004	427310 29.6626		1.2	69.29- 109.29	21.07	
4.246	4.248	-0.002	588908 40.8099		1.6	72.14- 112.14	29.04	
Average of Peak Concentrations =					2.6			

QC Flag Legend

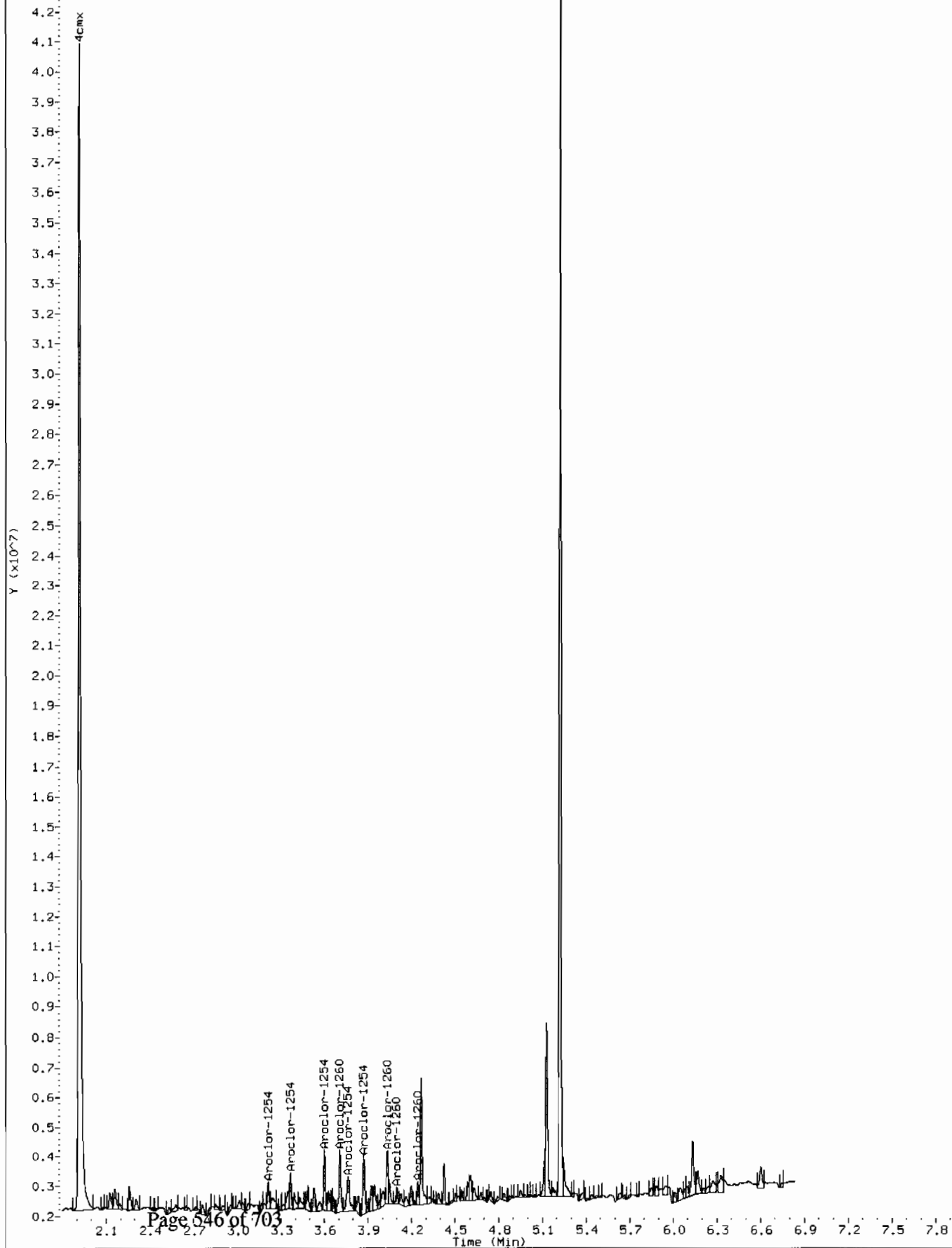
- a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem/eodla.i/030210.b/065f6501.d
Date : 02-MAR-2010 18:35
Client ID: REL5-10-7898
Sample Info: 124789700411
Volume Injected (uL): 1.0
Column phase: CLP1

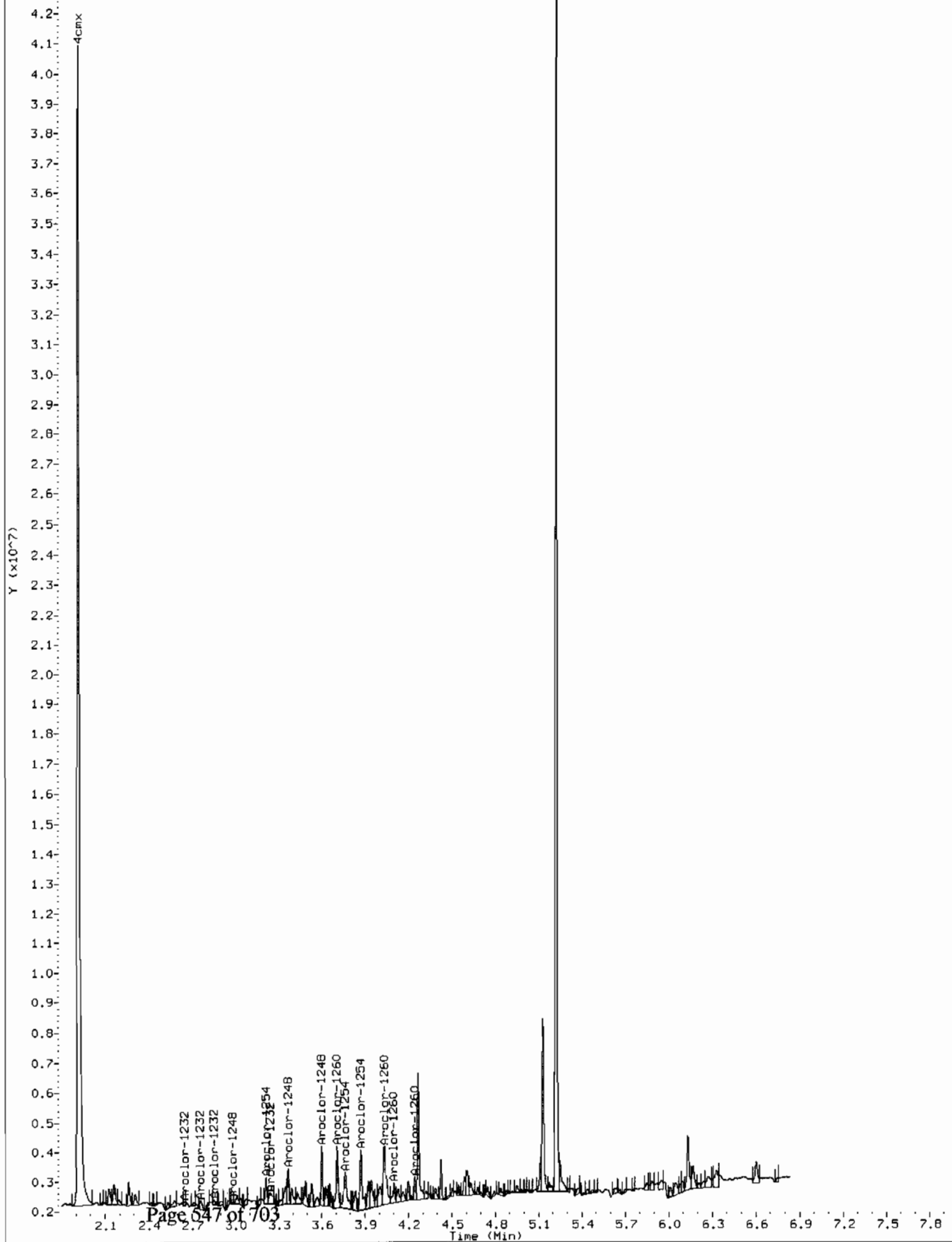
Instrument: eodla.i
Operator: YSI
Column diameter: 0.25



11/25/2015 11:53:53 AM



Comment: Before manual integration
Data File: /chem/ecdl1.i/030210.b/orig-065f6501.d
Operator: YS1
Injection Date: 02-MAR-2010 18:35
Instrument: ecd1a.i
Client Sample ID: RE15-10-7898



Data File: /chem/ecdl1a.i/030210.b/065b6501.d
Report Date: 03-Mar-2010 08:04

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/065b6501.d

Lab Smp Id: 247897004

Client Smp ID: RE15-10-7898

Inj Date : 02-MAR-2010 18:35

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |247897004|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7898|||

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 65

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	15.37790	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS						
		QN-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.276	2.277	-0.001	28530638 95.9345	3.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.919	5.920	-0.001	21627263 102.257	4.0	80.00- 120.00	100.00

6 Aroclor-1254 CAS #: 11097-69-1						
3.383	3.381	0.002	228532 37.6594	1.5	80.00- 120.00	100.00 (a)
3.801	3.804	-0.003	707181 65.8289	2.6	161.75- 201.75	309.45
3.918	3.920	-0.002	855372 73.4649	2.9	182.10- 222.10	374.29
4.195	4.196	-0.001	802205 50.4573	2.0	263.97- 303.97	351.03

CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO
			RESPONSE (ug/L)		(ug/Kg)		
==	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)							
4.331	4.333	-0.002	518209	43.2734	1.7	188.35- 228.35	226.76
Average of Peak Concentrations =					2.1		

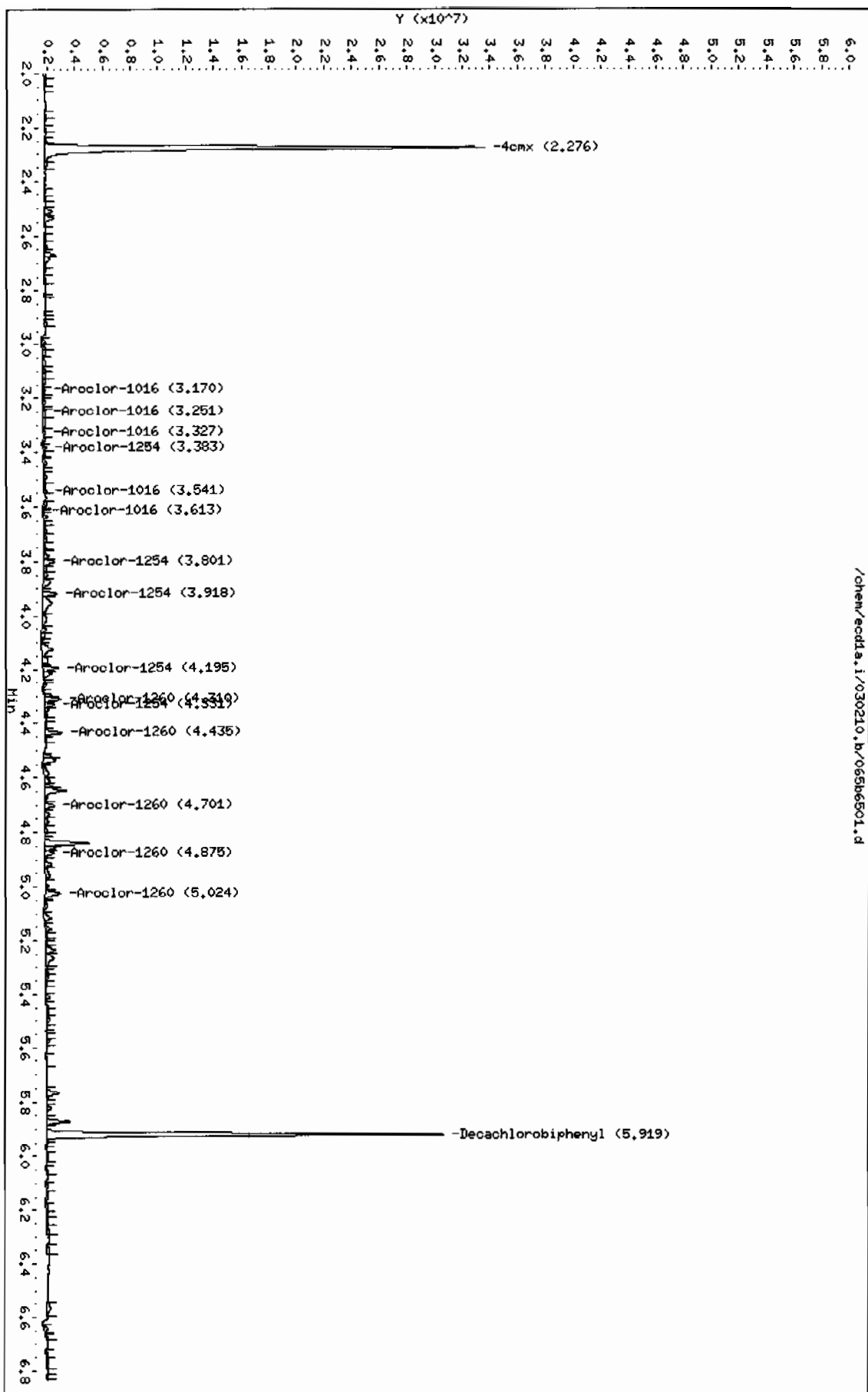
7 Aroclor-1260					CAS #: 11096-82-5		
4.310	4.312	-0.002	885090	67.0236	2.6	80.00- 120.00	100.00 (a)
4.435	4.436	-0.001	973766	62.5540	2.5	102.18- 142.18	110.02
4.701	4.702	-0.001	584585	49.3591	1.9	71.47- 111.47	66.05
4.875	4.875	0.000	535106	43.8569	1.7	74.86- 114.86	60.46
5.024	5.023	0.001	1173643	44.2430	1.7	192.08- 232.08	132.60
Average of Peak Concentrations =					2.1		

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/ecdda.i/030210.b/065b6501.d
Date: 02-MAR-2010 18:35
Client ID: RE15-10-7898
Sample Info: 124789700411
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2009
Lab Sample ID: 247897007

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YSI
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 18.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7899
Batch ID: 958628
Run Date: 03/02/2010 19:13
Prep Date: 03/01/2010 11:47
Data File: 068f6801.d
068b6801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.08	ug/kg	1.36	4.08	1
11104-28-2	Aroclor-1221	U	4.08	ug/kg	1.36	4.08	1
11141-16-5	Aroclor-1232	U	4.08	ug/kg	1.36	4.08	1
53469-21-9	Aroclor-1242	U	4.08	ug/kg	1.36	4.08	1
12672-29-6	Aroclor-1248	U	4.08	ug/kg	1.36	4.08	1
11097-69-1	Aroclor-1254	U	4.08	ug/kg	1.36	4.08	1
11096-82-5	Aroclor-1260	U	4.08	ug/kg	1.36	4.08	1

Data File: /chem/ecdla.i/030210.b/068f6801.d
Report Date: 03-Mar-2010 07:31

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/068f6801.d
Lab Smp Id: 247897007 Client Smp ID: RE15-10-7899
Inj Date : 02-MAR-2010 19:13
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247897007|1|
Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7899|||
Comment :
Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m
Meth Date : 03-Mar-2010 07:27 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 68
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclpl

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	18.44390	% Moisture

Cpnd Variable Local Compound Variable

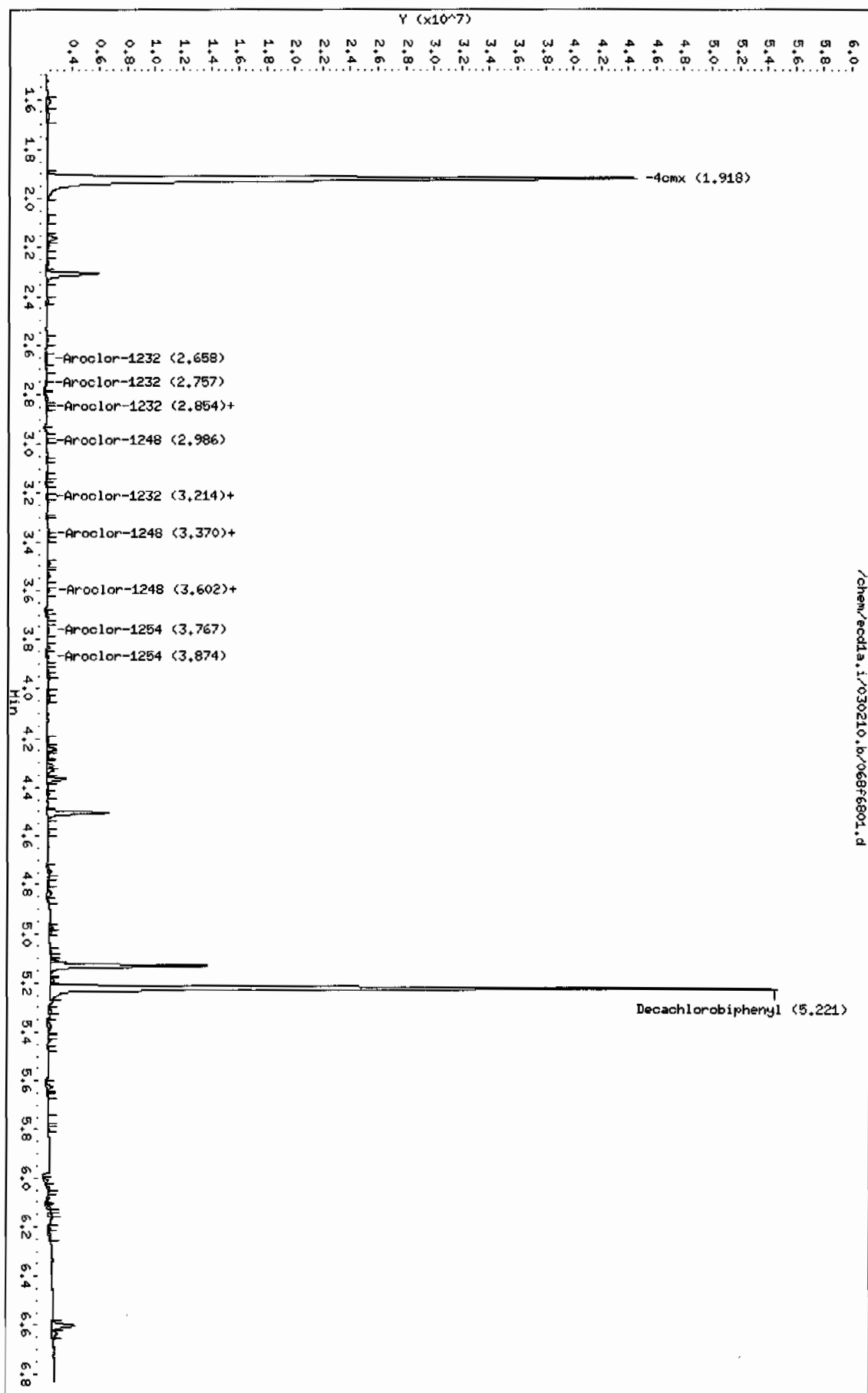
CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx							CAS #: 877-09-8	
1.918	1.918	0.000	47974976	111.405	4.6	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl							CAS #: 2051-24-3	
5.221	5.224	-0.003	40868848	132.998	5.4	80.00- 120.00	100.00	

Data File: /chem/ecdl.a.i/030210.b/068f6801.d
 Date: 02-MAR-2010 19:13
 Client ID: RE15-10-7899
 Sample Info: 1247897007141
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecdl.a.i
 Operator: YSL
 Column diameter: 0.25

/chem/ecdl.a.i/030210.b/068f6801.d



Data File: /chem/ecdl1a.i/030210.b/068b6801.d
 Report Date: 03-Mar-2010 07:31

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/068b6801.d

Lab Smp Id: 247897007

Client Smp ID: RE15-10-7899

Inj Date : 02-MAR-2010 19:13

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247897007|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7899|

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 03-Mar-2010 07:27 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 68

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	18.44390	% Moisture

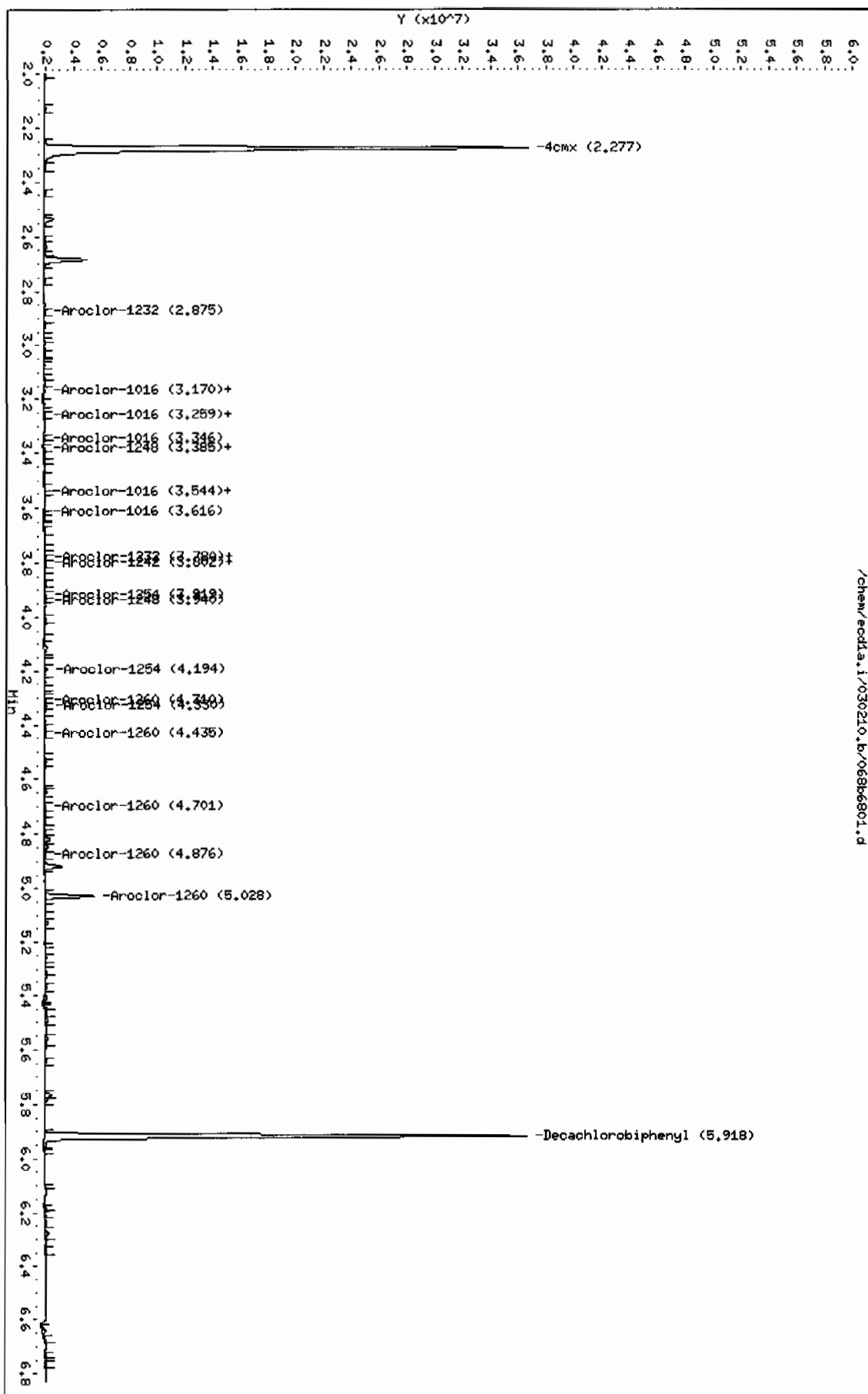
Cpnd Variable

Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL		TARGET RANGE	RATIO
			RESPONSE (ug/L)	FINAL (ug/Kg)		
\$ 11 4cmx					CAS #: 877-09-8	
2.277	2.277	0.000	31871269 107.167	4.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.918	5.920	-0.002	25952328 122.707	5.0	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030210.b/068b6801.d
 Date : 02-MAR-2010 19:13
 Client ID: RE15-10-7899
 Sample Info: 1247897007111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdl.a.i
 Operator: YSI
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2009
Lab Sample ID: 247897003

Client ID: RE15-10-7900
Batch ID: 958628
Run Date: 03/02/2010 18:23
Prep Date: 03/01/2010 11:47
Data File: 064f6401.d
064b6401.d

Date Collected: 02/18/2010 12:00
Date Received: 02/24/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 8.2
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	3.63	ug/kg	1.21	3.63	1
11104-28-2	Aroclor-1221	U	3.63	ug/kg	1.21	3.63	1
11141-16-5	Aroclor-1232	U	3.63	ug/kg	1.21	3.63	1
53469-21-9	Aroclor-1242	U	3.63	ug/kg	1.21	3.63	1
12672-29-6	Aroclor-1248	U	3.63	ug/kg	1.21	3.63	1
11097-69-1	Aroclor-1254	U	3.63	ug/kg	1.21	3.63	1
11096-82-5	Aroclor-1260	U	3.63	ug/kg	1.21	3.63	1

Data File: /chem/ecdla.i/030210.b/064f6401.d
Report Date: 03-Mar-2010 07:30

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/064f6401.d

Lab Smp Id: 247897003

Client Smp ID: RE15-10-7900

Inj Date : 02-MAR-2010 18:23

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247897003|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7900|||

Comment :

Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:27 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 64

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	8.17300	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

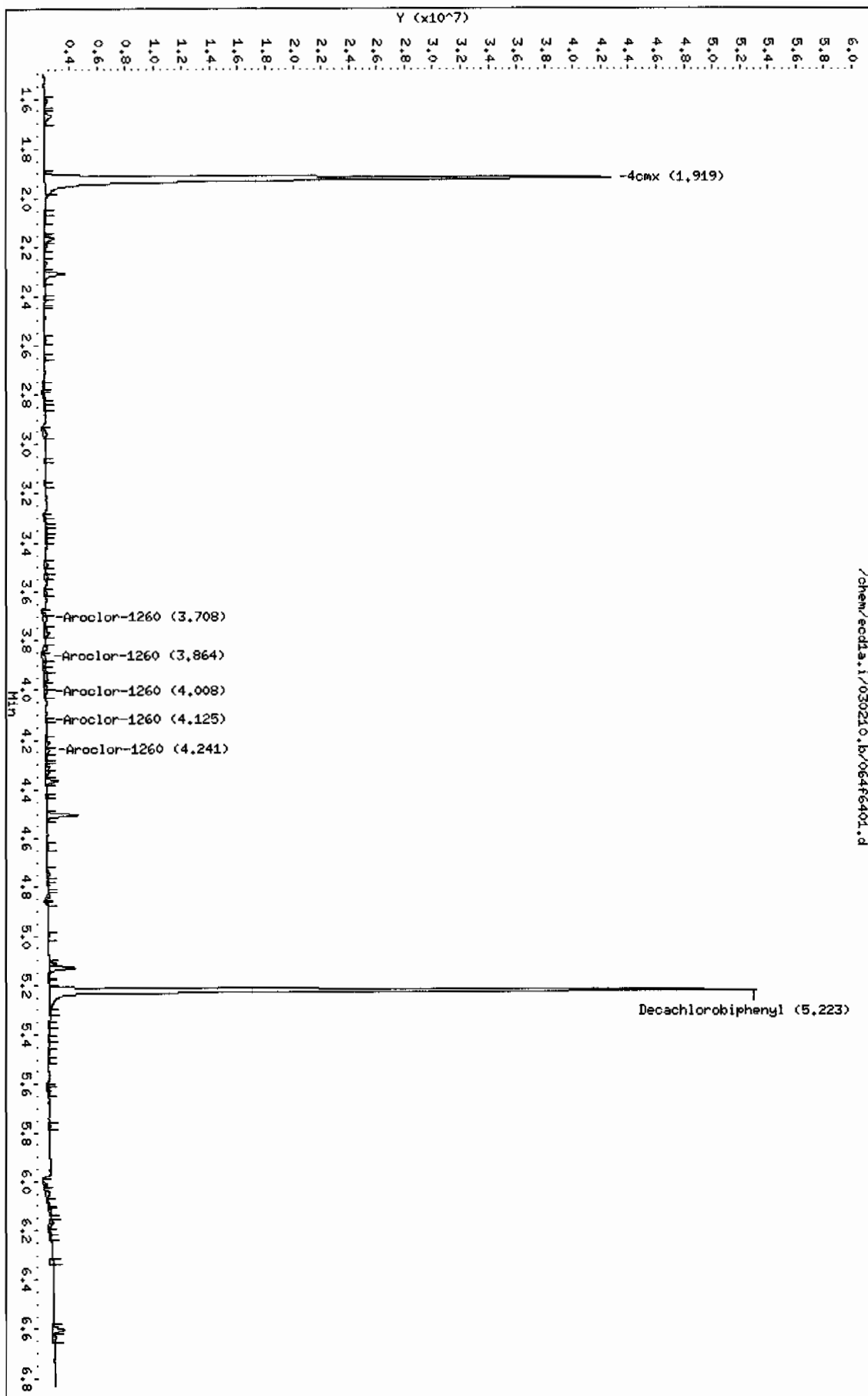
\$ 11 4cmx					CAS #: 877-09-8	
1.919	1.918	0.001	46421764	107.798	3.9 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.223	5.224	-0.001	40405858	131.491	4.8 80.00- 120.00	100.00

Data File: /chem/ecdl1.i/030210.b/064f6401.d
Date : 02-MAR-2010 18:23
Client ID: REL5-10-7900
Sample Info: 1247897003111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/064b6401.d

Lab Smp Id: 247897003

Client Smp ID: RE15-10-7900

Inj Date : 02-MAR-2010 18:23

Operator : YSl

Inst ID: ecdla.i

Smp Info : |247897003|1|

Misc Info : |ECD82P_1S|958628|SVA|LANL|SOIL|RE15-10-7900|||

Comment :

Method : /chem/ecdla.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 03-Mar-2010 07:27 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 64

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	8.17300	% Moisture

Cpnd Variable

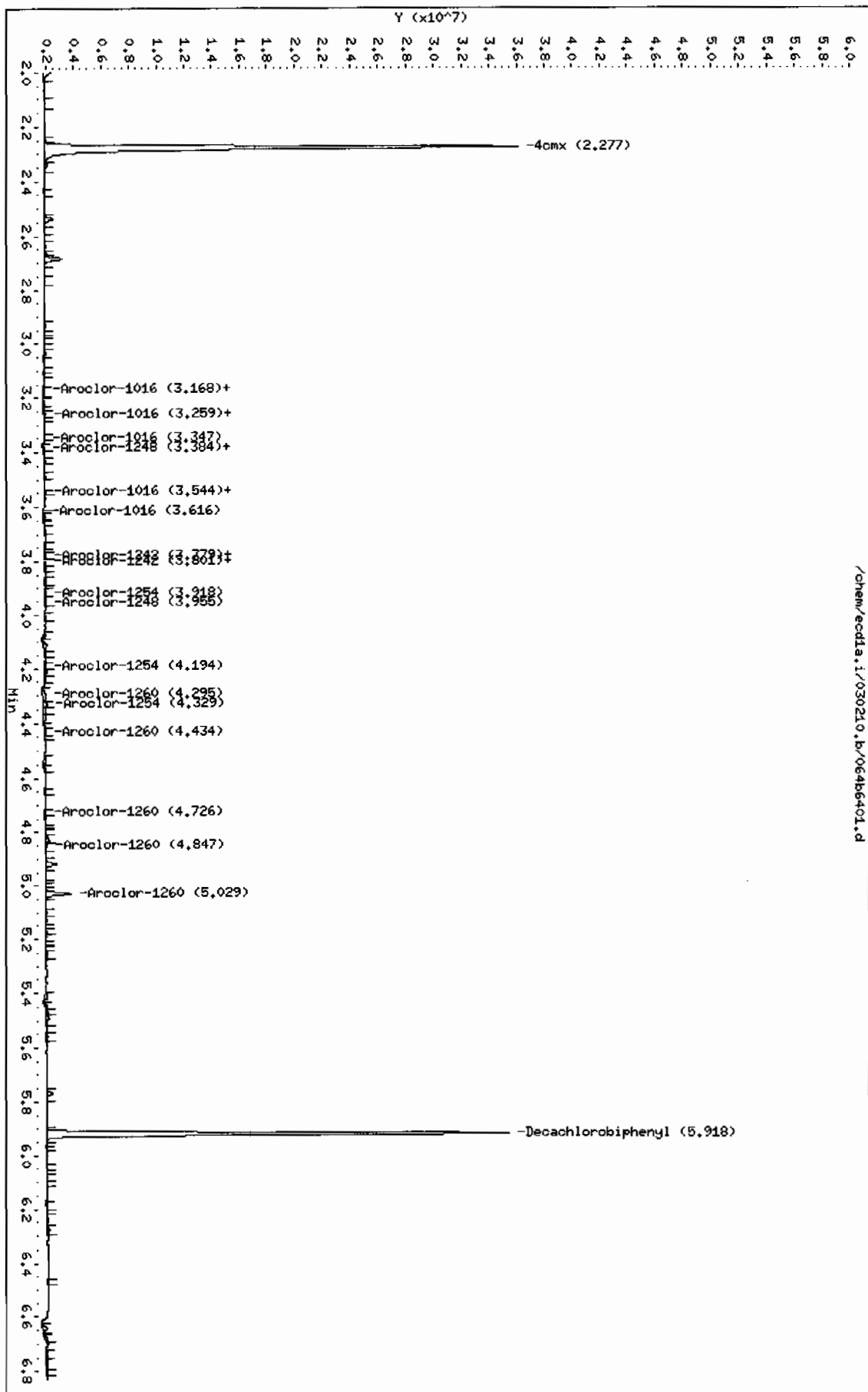
Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.277	2.277	0.000	31503297	105.930	3.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.918	5.920	-0.002	24902129	117.741	4.3	80.00- 120.00	100.00

Data File: /chem/ecdda.i/030210.b/064b6401.d
Date: 02-MAR-2010 16:23
Client ID: RELS-10-7900
Sample Info: 1247897003|11
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



STANDARDS DATA

Report Date: 03-Mar-2010 09:13

Calibration History

Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecdla.i/022210.b/032f3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdla.i/022210.b/026f2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdla.i/022210.b/020f2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdla.i/022210.b/014f1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdla.i/022210.b/008f0801.d
Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdla.i/022210.b/033f3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdla.i/022210.b/027f2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdla.i/022210.b/021f2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdla.i/022210.b/015f1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdla.i/022210.b/009f0901.d
Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdla.i/022210.b/034f3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdla.i/022210.b/028f2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdla.i/022210.b/022f2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdla.i/022210.b/016f1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdla.i/022210.b/010f1001.d
Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdla.i/022210.b/035f3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdla.i/022210.b/030f3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdla.i/022210.b/023f2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdla.i/022210.b/017f1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdla.i/022210.b/011f1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdla.i/022210.b/007f0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdla.i/022210.b/006f0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdla.i/022210.b/005f0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdla.i/022210.b/004f0401.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdla.i/022210.b/036f3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdla.i/022210.b/029f2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdla.i/022210.b/024f2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdla.i/022210.b/018f1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdla.i/022210.b/012f1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 17:11 AR1660	/chem/ecdla.i/030210.b/058f5801.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 19:39 AR1660	/chem/ecdla.i/030210.b/070f7001.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 16:00 AR1660	/chem/ecdla.i/030210.b/052f5201.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 13:36 AR1660	/chem/ecdla.i/030210.b/040f4001.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 05:48 AR1660	/chem/ecdla.i/030210.b/002f0201.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 11:13 AR1660	/chem/ecdla.i/030210.b/028f2801.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 09:48 AR1660	/chem/ecdla.i/030210.b/022f2201.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 07:02 AR1262	/chem/ecdla.i/030210.b/009f0901.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 06:52 AR1221	/chem/ecdla.i/030210.b/008f0801.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 06:41 AR1232	/chem/ecdla.i/030210.b/007f0701.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 06:30 AR1268	/chem/ecdla.i/030210.b/006f0601.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 06:20 AR1248	/chem/ecdla.i/030210.b/005f0501.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 06:09 AR1242	/chem/ecdla.i/030210.b/004f0401.d
+-----+-----+-----+-----+-----+-----+		
	Ccal Level: 4 , Ccal Amount: 1000	
+=====+=====+=====+=====+=====+=====+		
	02-MAR-2010 05:59 AR1254	/chem/ecdla.i/030210.b/003f0301.d
+-----+-----+-----+-----+-----+-----+		

Report Date: 03-Mar-2010 09:13

Calibration History

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecdl1a.i/022210.b/032b3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdl1a.i/022210.b/026b2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdl1a.i/022210.b/020b2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdl1a.i/022210.b/014b1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdl1a.i/022210.b/008b0801.d

Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdl1a.i/022210.b/033b3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdl1a.i/022210.b/027b2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdl1a.i/022210.b/021b2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdl1a.i/022210.b/015b1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdl1a.i/022210.b/009b0901.d

Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdl1a.i/022210.b/034b3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdl1a.i/022210.b/028b2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdl1a.i/022210.b/022b2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdl1a.i/022210.b/016b1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdl1a.i/022210.b/010b1001.d

Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdl1a.i/022210.b/035b3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdl1a.i/022210.b/030b3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdl1a.i/022210.b/023b2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdl1a.i/022210.b/017b1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdl1a.i/022210.b/011b1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdl1a.i/022210.b/007b0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdl1a.i/022210.b/006b0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdl1a.i/022210.b/005b0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdl1a.i/022210.b/004b0401.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdl1a.i/022210.b/036b3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdl1a.i/022210.b/029b2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdl1a.i/022210.b/024b2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdl1a.i/022210.b/018b1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdl1a.i/022210.b/012b1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 19:39	AR1660	/chem/ecd1a.i/030210.b/070b7001.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 16:00	AR1660	/chem/ecd1a.i/030210.b/052b5201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 17:11	AR1660	/chem/ecd1a.i/030210.b/058b5801.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 13:36	AR1660	/chem/ecd1a.i/030210.b/040b4001.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 11:13	AR1660	/chem/ecd1a.i/030210.b/028b2801.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 09:48	AR1660	/chem/ecd1a.i/030210.b/022b2201.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 07:02	AR1262	/chem/ecd1a.i/030210.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 06:52	AR1221	/chem/ecd1a.i/030210.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 06:41	AR1232	/chem/ecd1a.i/030210.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 06:30	AR1268	/chem/ecd1a.i/030210.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 06:20	AR1248	/chem/ecd1a.i/030210.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 06:09	AR1242	/chem/ecd1a.i/030210.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 05:59	AR1254	/chem/ecd1a.i/030210.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
02-MAR-2010 05:48	AR1660	/chem/ecd1a.i/030210.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 03-Mar-2010 07:31 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events

Values

 Initial:Start Threshold 12031.000000
 Initial:End Threshold 6015.500000
 Initial:Area Threshold 15489.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 2.000000
 Initial:Negative Peaks OFF
 Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.371	2.341-2.401	1.538e+04
	2.658	2.628-2.688	1.824e+04
	2.738	2.708-2.768	1.207e+04
	2.775	2.745-2.805	7.096e+03
	2.986	2.956-3.016	8.912e+03
63 4,4-DDD	3.900	3.880-3.920	3.060e+05
64 4,4-DDE	3.551	3.531-3.571	3.552e+05
62 4,4-DDT	4.064	4.044-4.084	2.080e+05
2 Aroclor-1221	2.031	2.001-2.061	4.398e+03
	2.124	2.094-2.154	2.431e+03
	2.149	2.119-2.179	1.042e+04
3 Aroclor-1232	2.371	2.341-2.401	6.218e+03
	2.659	2.629-2.689	7.488e+03
	2.740	2.710-2.770	4.887e+03
	2.854	2.824-2.884	2.191e+03
	3.240	3.210-3.270	2.731e+03
4 Aroclor-1242	2.371	2.341-2.401	1.256e+04
	2.658	2.628-2.688	1.461e+04
	2.777	2.747-2.807	5.629e+03
	2.987	2.957-3.017	7.310e+03
	3.240	3.210-3.270	6.183e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	2.853	2.823-2.883	9.301e+03
	2.986	2.956-3.016	1.241e+04
	3.240	3.210-3.270	1.220e+04
	3.372	3.342-3.402	1.042e+04
	3.605	3.575-3.635	6.820e+03
6 Aroclor-1254	3.216	3.186-3.246	1.201e+04
	3.371	3.341-3.401	1.583e+04
	3.605	3.575-3.635	1.952e+04
	3.768	3.738-3.798	1.381e+04
	3.878	3.848-3.908	1.428e+04
7 Aroclor-1260	3.712	3.682-3.742	1.707e+04
	3.874	3.844-3.904	2.364e+04
	4.037	4.007-4.067	2.497e+04
	4.105	4.075-4.135	1.441e+04
	4.248	4.218-4.278	1.443e+04
8 Aroclor-1262	3.713	3.683-3.743	1.261e+04
	3.875	3.845-3.905	1.569e+04
	4.106	4.076-4.136	1.995e+04
	4.248	4.218-4.278	1.798e+04
	4.428	4.398-4.458	3.725e+04
9 Aroclor-1268	4.613	4.583-4.643	4.848e+04
	4.635	4.605-4.665	5.448e+04
	4.748	4.718-4.778	3.862e+04
	4.950	4.920-4.980	1.635e+04
	5.116	5.086-5.146	1.121e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.918	1.888-1.948	4.306e+05
\$ 12 Decachlorobiphenyl	5.224	5.194-5.254	3.073e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/030210.b/ECD1-B-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 03-Mar-2010 07:31 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold      7222.000000
Initial:End Threshold        3611.000000
Initial:Area Threshold       6833.000000
Initial:P-P Resolution       0.000000
Initial:Bunch Factor         2.000000
Initial:Negative Peaks      OFF
Initial:Tension              0.500000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	3.172	3.142-3.202	1.279e+04
	3.255	3.225-3.285	8.918e+03
	3.318	3.288-3.348	5.406e+03
	3.545	3.515-3.575	6.916e+03
	3.621	3.591-3.651	6.425e+03
62 4,4-DDT	4.660	4.640-4.680	1.000e+05
63 4,4-DDE	4.128	4.108-4.148	2.505e+05
64 4,4-DDD	4.473	4.453-4.493	2.085e+05
2 Aroclor-1221	2.474	2.444-2.504	3.431e+03
	2.568	2.538-2.598	2.152e+03
	2.609	2.579-2.639	7.328e+03
3 Aroclor-1232	2.875	2.845-2.905	4.920e+03
	3.173	3.143-3.203	5.252e+03
	3.255	3.225-3.285	3.768e+03
	3.546	3.516-3.576	2.699e+03
4 Aroclor-1242	3.780	3.750-3.810	2.631e+03
	3.172	3.142-3.202	1.035e+04
	3.256	3.226-3.286	7.279e+03
	3.546	3.516-3.576	5.768e+03
	3.780	3.750-3.810	5.788e+03
	3.807	3.777-3.837	6.641e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1.i/030210.b/ECD1-B-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.381	3.351-3.411	7.602e+03
	3.546	3.516-3.576	9.360e+03
	3.780	3.750-3.810	1.065e+04
	3.807	3.777-3.837	1.210e+04
	3.944	3.914-3.974	1.150e+04
6 Aroclor-1254	3.381	3.351-3.411	6.068e+03
	3.804	3.774-3.834	1.074e+04
	3.920	3.890-3.950	1.164e+04
	4.196	4.166-4.226	1.590e+04
	4.333	4.303-4.363	1.198e+04
7 Aroclor-1260	4.312	4.282-4.342	1.321e+04
	4.436	4.406-4.466	1.557e+04
	4.702	4.672-4.732	1.184e+04
	4.875	4.845-4.905	1.220e+04
	5.023	4.993-5.053	2.653e+04
8 Aroclor-1262	4.437	4.407-4.467	1.126e+04
	4.703	4.673-4.733	1.550e+04
	4.877	4.847-4.907	1.407e+04
	5.023	4.993-5.053	2.845e+04
	5.237	5.207-5.267	1.972e+04
9 Aroclor-1268	5.235	5.205-5.265	3.730e+04
	5.262	5.232-5.292	3.492e+04
	5.412	5.382-5.442	2.658e+04
	5.577	5.547-5.607	1.223e+04
	5.768	5.738-5.798	7.433e+04
10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.277	2.247-2.307	2.974e+05
\$ 12 Decachlorobiphenyl	5.920	5.890-5.950	2.115e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m
 Cal Date : 03-Mar-2010 07:31 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl1a.i/022210.b/032f3201.d
 Level 2: /chem/ecdl1a.i/022210.b/033f3301.d
 Level 3: /chem/ecdl1a.i/022210.b/034f3401.d
 Level 4: /chem/ecdl1a.i/022210.b/035f3501.d
 Level 5: /chem/ecdl1a.i/022210.b/036f3601.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	18473	16312	15150	14238	12749	15384	14.060
(2)	20194	18537	17759	17625	17070	18237	6.651
(3)	14170	12473	11875	11163	10646	12065	11.317
(4)	8163	7198	6933	6624	6564	7096	9.135
(5)	10345	9178	8623	8273	8142	8912	10.051
63 4,4-DDD	++++	++++	++++	305990	++++	305990	0.000
64 4,4-DDE	++++	++++	++++	355239	++++	355239	0.000
62 4,4-DDT	++++	++++	++++	208015	++++	208015	0.000
2 Aroclor-1221(1)	++++	++++	++++	4398	++++	4398	0.000
(2)	++++	++++	++++	2431	++++	2431	0.000
(3)	++++	++++	++++	10418	++++	10418	0.000
3 Aroclor-1232(1)	++++	++++	++++	6218	++++	6218	0.000
(2)	++++	++++	++++	7488	++++	7488	0.000
(3)	++++	++++	++++	4887	++++	4887	0.000
(4)	++++	++++	++++	2191	++++	2191	0.000
(5)	++++	++++	++++	2731	++++	2731	0.000
4 Aroclor-1242(1)	14895	13406	12308	11554	10624	12557	13.200
(2)	15940	15326	14418	13613	13761	14612	6.870
(3)	6066	5934	5542	5337	5267	5629	6.326
(4)	8523	7616	7127	6725	6562	7310	10.814
(5)	6824	6256	5999	5817	6020	6183	6.317
5 Aroclor-1248(1)	10594	9810	9017	8885	8199	9301	9.911
(2)	14228	12736	11895	11712	11476	12409	9.043
(3)	12841	12156	11815	11785	12410	12201	3.615
(4)	11297	10503	10013	9956	10333	10420	5.179
(5)	7445	6917	6453	6460	6824	6820	5.977

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m
 Cal Date : 03-Mar-2010 07:31 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254(1)	13496	12213	11744	11466	11117	12007	7.694
(2)	16789	15969	15727	15423	15253	15832	3.802
(3)	20267	19353	19208	19481	19310	19524	2.185
(4)	14142	13669	13487	13772	13976	13809	1.858
(5)	15228	14234	13851	14228	13864	14281	3.932
7 Aroclor-1260(1)	19445	17307	16758	16208	15645	17072	8.574
(2)	25625	23757	23316	22992	22528	23643	5.056
(3)	27164	24948	24176	24127	24442	24971	5.079
(4)	16166	14596	13941	13551	13775	14406	7.345
(5)	15672	14437	13986	13647	14411	14431	5.316
8 Aroclor-1262(1)	++++	++++	++++	12612	++++	12612	0.000
(2)	++++	++++	++++	15693	++++	15693	0.000
(3)	++++	++++	++++	19946	++++	19946	0.000
(4)	++++	++++	++++	17981	++++	17981	0.000
(5)	++++	++++	++++	37250	++++	37250	0.000
9 Aroclor-1268(1)	49163	48928	48151	48132	48019	48478	1.086
(2)	55254	54719	54718	54649	53075	54483	1.512
(3)	39937	38826	38121	38191	38006	38616	2.083
(4)	16234	16191	16152	16347	16815	16348	1.657
(5)	114910	115297	111446	111050	107804	112101	2.753
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
11 4cmx	457836	439032	431646	423676	400995	430637	4.841
12 Decachlorobiphenyl	331580	312081	303953	298909	289924	307289	5.135

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/030210.b/ECD1-B-8082-022210.m
 Cal Date : 03-Mar-2010 07:31 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/022210.b/032b3201.d
 Level 2: /chem/ecdla.i/022210.b/033b3301.d
 Level 3: /chem/ecdla.i/022210.b/034b3401.d
 Level 4: /chem/ecdla.i/022210.b/035b3501.d
 Level 5: /chem/ecdla.i/022210.b/036b3601.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14790	13406	12599	11956	11198	12790	10.807
(2)	11020	9550	8735	8081	7204	8918	16.336
(3)	6667	5702	5261	4923	4477	5406	15.464
(4)	8469	7466	6811	6206	5627	6916	15.991
(5)	7861	6755	6366	5845	5300	6425	15.123
62 4,4-DDT	++++	++++	++++	100019	++++	100019	0.000
63 4,4-DDE	++++	++++	++++	250510	++++	250510	0.000
64 4,4-DDD	++++	++++	++++	208527	++++	208527	0.000
2 Aroclor-1221(1)	++++	++++	++++	3431	++++	3431	0.000
(2)	++++	++++	++++	2152	++++	2152	0.000
(3)	++++	++++	++++	7328	++++	7328	0.000
3 Aroclor-1232(1)	++++	++++	++++	4920	++++	4920	0.000
(2)	++++	++++	++++	5252	++++	5252	0.000
(3)	++++	++++	++++	3768	++++	3768	0.000
(4)	++++	++++	++++	2699	++++	2699	0.000
(5)	++++	++++	++++	2631	++++	2631	0.000
4 Aroclor-1242(1)	12162	10602	10267	9852	8873	10351	11.615
(2)	8972	7860	7095	6551	5917	7279	16.286
(3)	7172	6222	5595	5138	4714	5768	16.707
(4)	7092	6149	5608	5215	4876	5788	15.018
(5)	8262	7049	6439	5944	5512	6641	16.138
5 Aroclor-1248(1)	9375	8130	7334	6873	6297	7602	15.743
(2)	11273	9902	9059	8609	7955	9360	13.704
(3)	12356	11118	10348	9982	9432	10647	10.657
(4)	14147	12783	11698	11327	10532	12097	11.596
(5)	13387	12032	11069	10719	10286	11499	10.750

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1.i/030210.b/ECD1-B-8082-022210.m
 Cal Date : 03-Mar-2010 07:31 yip00818
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	7593	6474	5915	5463	4897	6068	16.986
(2)	13079	11278	10543	9836	8978	10743	14.511
(3)	14023	12144	11373	10769	9907	11643	13.419
(4)	18579	16173	15683	15087	13972	15899	10.745
(5)	14693	12059	11530	11303	10291	11975	13.772
7 Aroclor-1260(1)	16156	14478	12627	11898	10869	13206	15.988
(2)	18308	16389	15401	14483	13254	15567	12.332
(3)	14169	12468	11644	10875	10061	11844	13.319
(4)	14677	12787	11930	11182	10430	12201	13.416
(5)	30570	27429	26347	25126	23163	26527	10.405
8 Aroclor-1262(1)	++++	++++	++++	11265	++++	11265	0.000
(2)	++++	++++	++++	15504	++++	15504	0.000
(3)	++++	++++	++++	14070	++++	14070	0.000
(4)	++++	++++	++++	28448	++++	28448	0.000
(5)	++++	++++	++++	19723	++++	19723	0.000
9 Aroclor-1268(1)	41829	39003	36612	35751	33294	37298	8.721
(2)	39747	36378	33891	33096	31474	34917	9.246
(3)	30202	27679	25801	25188	24032	26580	9.093
(4)	14370	12834	11677	11309	10971	12232	11.329
(5)	81955	77588	73073	71224	67792	74326	7.452
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
\$ 11 4cmx	335261	308362	295849	285028	262485	297397	9.098
\$ 12 Decachlorobiphenyl	252219	220293	206273	196840	181867	211498	12.633

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 0548
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13601.571	0.01	-11.6	15.0
(2)	18237.012	17480.754	0.01	-4.1	15.0
(3)	12065.482	10871.667	0.01	-9.9	15.0
(4)	7096.105	6563.672	0.01	-7.5	15.0
(5)	8912.192	8329.860	0.01	-6.5	15.0
Aroclor-1260	17072.421	16210.690	0.01	-5.0	15.0
(2)	23643.449	24147.134	0.01	2.1	15.0
(3)	24971.335	25653.420	0.01	2.7	15.0
(4)	14405.675	14416.644	0.01	0.1	15.0
(5)	14430.527	15066.725	0.01	4.4	15.0
4cmx	430636.91	386237.54	0.01	-10.3	15.0
Decachlorobiphenyl	307289.35	300328.66	0.01	-2.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 0548
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12143.694	0.01	-5.0	15.0
(2)	8917.926	7867.097	0.01	-11.8	15.0
(3)	5406.011	4922.583	0.01	-8.9	15.0
(4)	6915.638	6421.359	0.01	-7.1	15.0
(5)	6425.213	6016.906	0.01	-6.4	15.0
Aroclor-1260	13205.642	11999.897	0.01	-9.1	15.0
(2)	15566.814	14656.446	0.01	-5.8	15.0
(3)	11843.501	11024.062	0.01	-6.9	15.0
(4)	12201.193	11486.010	0.01	-5.9	15.0
(5)	26527.172	25660.444	0.01	-3.3	15.0
4cmx	297396.93	268302.45	0.01	-9.8	15.0
Decachlorobiphenyl	211498.34	193016.89	0.01	-8.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 0559
 Lab File ID: 003F0301 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0816 0859
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	12007.350	12403.329	0.01	3.3	15.0
(2)	15832.152	16926.158	0.01	6.9	15.0
(3)	19523.991	21941.493	0.01	12.4	15.0
(4)	13809.178	16445.123	0.01	19.1	15.0
(5)	14281.016	15574.873	0.01	9.0	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 0559
 Lab File ID: 003B0301 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0816 0859
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	6068.393	5767.456	0.01	-5.0	15.0
(2)	10742.712	10482.535	0.01	-2.4	15.0
(3)	11643.270	11655.908	0.01	0.1	15.0
(4)	15898.678	16377.774	0.01	3.0	15.0
(5)	11975.232	12016.716	0.01	0.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1336
 Lab File ID: 040F4001 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	14131.202	0.01	-8.1	15.0
(2)	18237.012	18270.940	0.01	0.2	15.0
(3)	12065.482	11700.813	0.01	-3.0	15.0
(4)	7096.105	7044.820	0.01	-0.7	15.0
(5)	8912.192	8882.281	0.01	-0.3	15.0
Aroclor-1260	17072.421	17231.229	0.01	0.9	15.0
(2)	23643.449	25805.772	0.01	9.1	15.0
(3)	24971.335	27601.411	0.01	10.5	15.0
(4)	14405.675	15475.930	0.01	7.4	15.0
(5)	14430.527	16024.854	0.01	11.0	15.0
4cmx	430636.91	410778.56	0.01	-4.6	15.0
Decachlorobiphenyl	307289.35	301484.20	0.01	-1.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1336
 Lab File ID: 040B4001 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12456.056	0.01	-2.6	15.0
(2)	8917.926	8189.560	0.01	-8.2	15.0
(3)	5406.011	5091.389	0.01	-5.8	15.0
(4)	6915.638	6555.103	0.01	-5.2	15.0
(5)	6425.213	6019.375	0.01	-6.3	15.0
Aroclor-1260	13205.642	12044.017	0.01	-8.8	15.0
(2)	15566.814	14650.476	0.01	-5.9	15.0
(3)	11843.501	10918.169	0.01	-7.8	15.0
(4)	12201.193	11355.103	0.01	-6.9	15.0
(5)	26527.172	25288.775	0.01	-4.7	15.0
4cmx	297396.93	276282.97	0.01	-7.1	15.0
Decachlorobiphenyl	211498.34	185261.56	0.01	-12.4	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1600
 Lab File ID: 052F5201 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	15690.570	0.01	2.0	15.0
(2)	18237.012	19865.322	0.01	8.9	15.0
(3)	12065.482	12335.452	0.01	2.2	15.0
(4)	7096.105	7507.028	0.01	5.8	15.0
(5)	8912.192	9604.114	0.01	7.8	15.0
Aroclor-1260	17072.421	18229.030	0.01	6.8	15.0
(2)	23643.449	27315.391	0.01	15.5	15.0 <-
(3)	24971.335	29254.545	0.01	17.2	15.0 <-
(4)	14405.675	16413.662	0.01	13.9	15.0
(5)	14430.527	17015.676	0.01	17.9	15.0 <-
4cmx	430636.91	431050.57	0.01	0.1	15.0
Decachlorobiphenyl	307289.35	326183.04	0.01	6.1	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.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1600
 Lab File ID: 052B5201 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12789.782	13122.983	0.01	2.6	15.0
(2)	8917.926	8560.645	0.01	-4.0	15.0
(3)	5406.011	5377.608	0.01	-0.5	15.0
(4)	6915.638	6694.102	0.01	-3.2	15.0
(5)	6425.213	6305.143	0.01	-1.9	15.0
Aroclor-1260	13205.642	12886.014	0.01	-2.4	15.0
(2)	15566.814	15743.699	0.01	1.1	15.0
(3)	11843.501	11787.027	0.01	-0.5	15.0
(4)	12201.193	12223.405	0.01	0.2	15.0
(5)	26527.172	27329.298	0.01	3.0	15.0
=====	=====	=====	=====	=====	=====
4cmx	297396.93	291417.53	0.01	-2.0	15.0
Decachlorobiphenyl	211498.34	201488.44	0.01	-4.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1711
 Lab File ID: 058F5801 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	14378.810	0.01	-6.5	15.0
(2)	18237.012	18610.522	0.01	2.0	15.0
(3)	12065.482	11544.118	0.01	-4.3	15.0
(4)	7096.105	7007.436	0.01	-1.2	15.0
(5)	8912.192	8792.163	0.01	-1.3	15.0
Aroclor-1260	17072.421	17404.915	0.01	1.9	15.0
(2)	23643.449	25934.964	0.01	9.7	15.0
(3)	24971.335	27100.051	0.01	8.5	15.0
(4)	14405.675	15540.610	0.01	7.9	15.0
(5)	14430.527	16036.515	0.01	11.1	15.0
4cmx	430636.91	405932.67	0.01	-5.7	15.0
Decachlorobiphenyl	307289.35	308864.59	0.01	0.5	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.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1711
 Lab File ID: 058B5801 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12488.956	0.01	-2.4	15.0
(2)	8917.926	8117.670	0.01	-9.0	15.0
(3)	5406.011	5063.002	0.01	-6.3	15.0
(4)	6915.638	6589.722	0.01	-4.7	15.0
(5)	6425.213	6066.611	0.01	-5.6	15.0
Aroclor-1260	13205.642	12236.562	0.01	-7.3	15.0
(2)	15566.814	14974.310	0.01	-3.8	15.0
(3)	11843.501	11264.285	0.01	-4.9	15.0
(4)	12201.193	11705.895	0.01	-4.0	15.0
(5)	26527.172	26063.319	0.01	-1.7	15.0
4cmx	297396.93	274041.53	0.01	-7.8	15.0
Decachlorobiphenyl	211498.34	192855.78	0.01	-8.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1939
 Lab File ID: 070F7001 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	14365.059	0.01	-6.6	15.0
(2)	18237.012	17993.777	0.01	-1.3	15.0
(3)	12065.482	11524.117	0.01	-4.5	15.0
(4)	7096.105	6958.406	0.01	-1.9	15.0
(5)	8912.192	8948.382	0.01	0.4	15.0
Aroclor-1260	17072.421	17127.234	0.01	0.3	15.0
(2)	23643.449	25594.843	0.01	8.2	15.0
(3)	24971.335	27479.514	0.01	10.0	15.0
(4)	14405.675	15373.775	0.01	6.7	15.0
(5)	14430.527	16080.695	0.01	11.4	15.0
4cmx	430636.91	408073.84	0.01	-5.2	15.0
Decachlorobiphenyl	307289.35	310395.18	0.01	1.0	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009
 Instrument ID: ECD1A Calibration Date: 03/02/10 Time: 1939
 Lab File ID: 070B7001 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12049.076	0.01	-5.8	15.0
(2)	8917.926	8117.170	0.01	-9.0	15.0
(3)	5406.011	5086.307	0.01	-5.9	15.0
(4)	6915.638	6352.206	0.01	-8.1	15.0
(5)	6425.213	5947.713	0.01	-7.4	15.0
Aroclor-1260	13205.642	12281.752	0.01	-7.0	15.0
(2)	15566.814	15033.899	0.01	-3.4	15.0
(3)	11843.501	11323.653	0.01	-4.4	15.0
(4)	12201.193	11737.521	0.01	-3.8	15.0
(5)	26527.172	26263.175	0.01	-1.0	15.0
4cmx	297396.93	276110.57	0.01	-7.2	15.0
Decachlorobiphenyl	211498.34	194948.07	0.01	-7.8	15.0

FORM VII PEST

Data File: /chem/ecdla.i/030210.b/002f0201.d
 Report Date: 02-Mar-2010 13:20

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/002f0201.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 02-MAR-2010 05:48

Operator : YSl

Inst ID: ecdla.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 13:18 jen01212

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
1.918	1.918	0.000	38623754 100.000	89.7	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.224	5.224	0.000	30032866 100.000	97.7	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.371	2.371	0.000	13601571 1000.00	884	80.00- 120.00	100.00
2.658	2.658	0.000	17480754 1000.00	958	108.52- 148.52	128.52
2.738	2.738	0.000	10871667 1000.00	901	59.93- 99.93	79.93
2.775	2.775	0.000	6563672 1000.00	925	28.26- 68.26	48.26
2.986	2.986	0.000	8329860 1000.00	935	41.24- 81.24	61.24
Average of Peak Amounts =				921		

7 Aroclor-1260				CAS #: 11096-82-5		
3.712	3.712	0.000	16210690 1000.00	950	80.00- 120.00	100.00 (M)
3.874	3.874	0.000	24147134 1000.00	1020	128.96- 168.96	148.96
4.037	4.037	0.000	25653420 1000.00	1030	138.25- 178.25	158.25
4.105	4.105	0.000	14416644 1000.00	1000	68.93- 108.93	88.93
4.248	4.248	0.000	15066725 1000.00	1040	72.94- 112.94	92.94
Average of Peak Amounts =				1.01e+03		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecda.i/030210.b/002f0201.d

Date: 02-MAR-2010 05:48

Client ID: AR166001

Sample Info: IWR100222-60 01

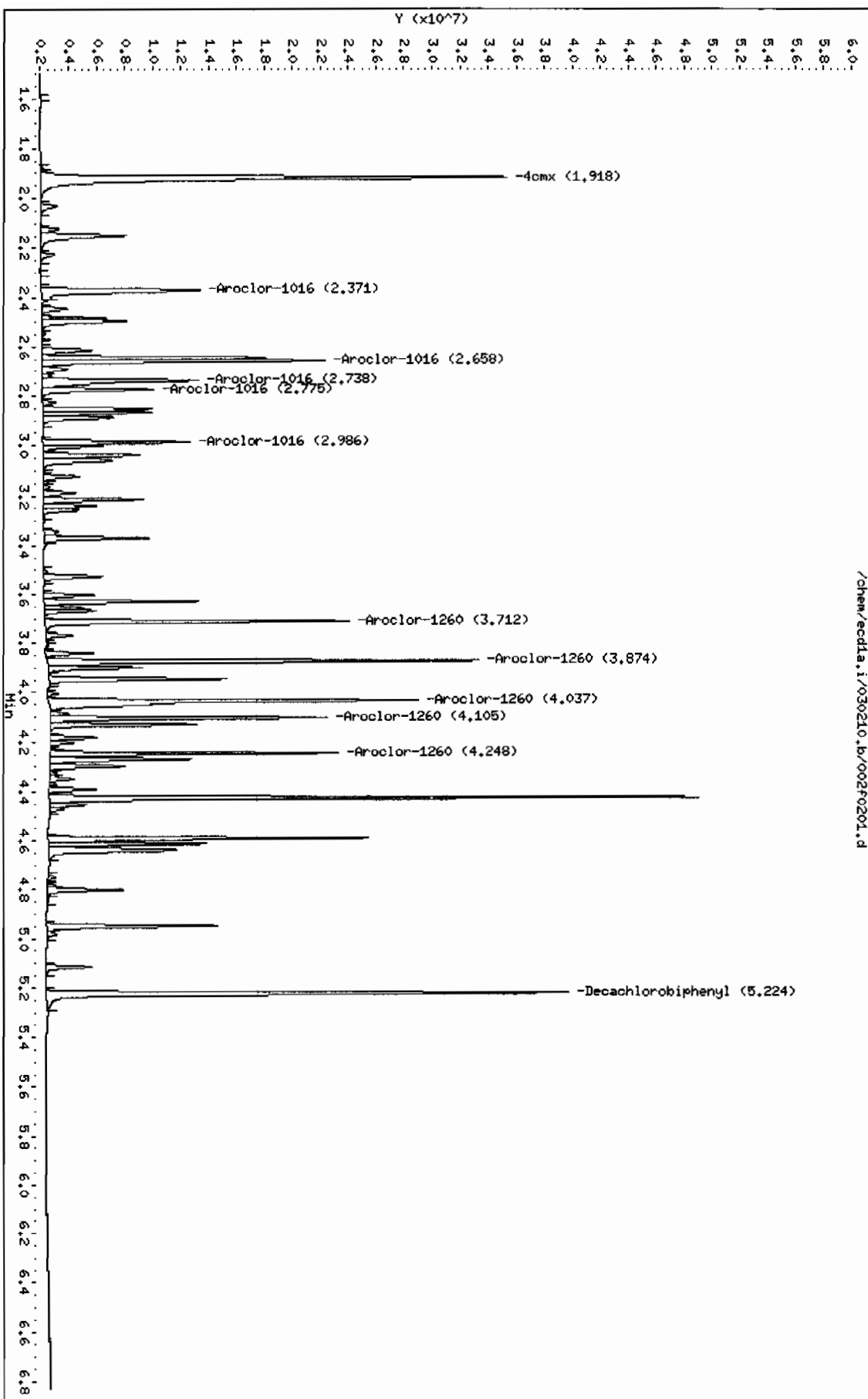
Page 1

Instrument: ecda.i

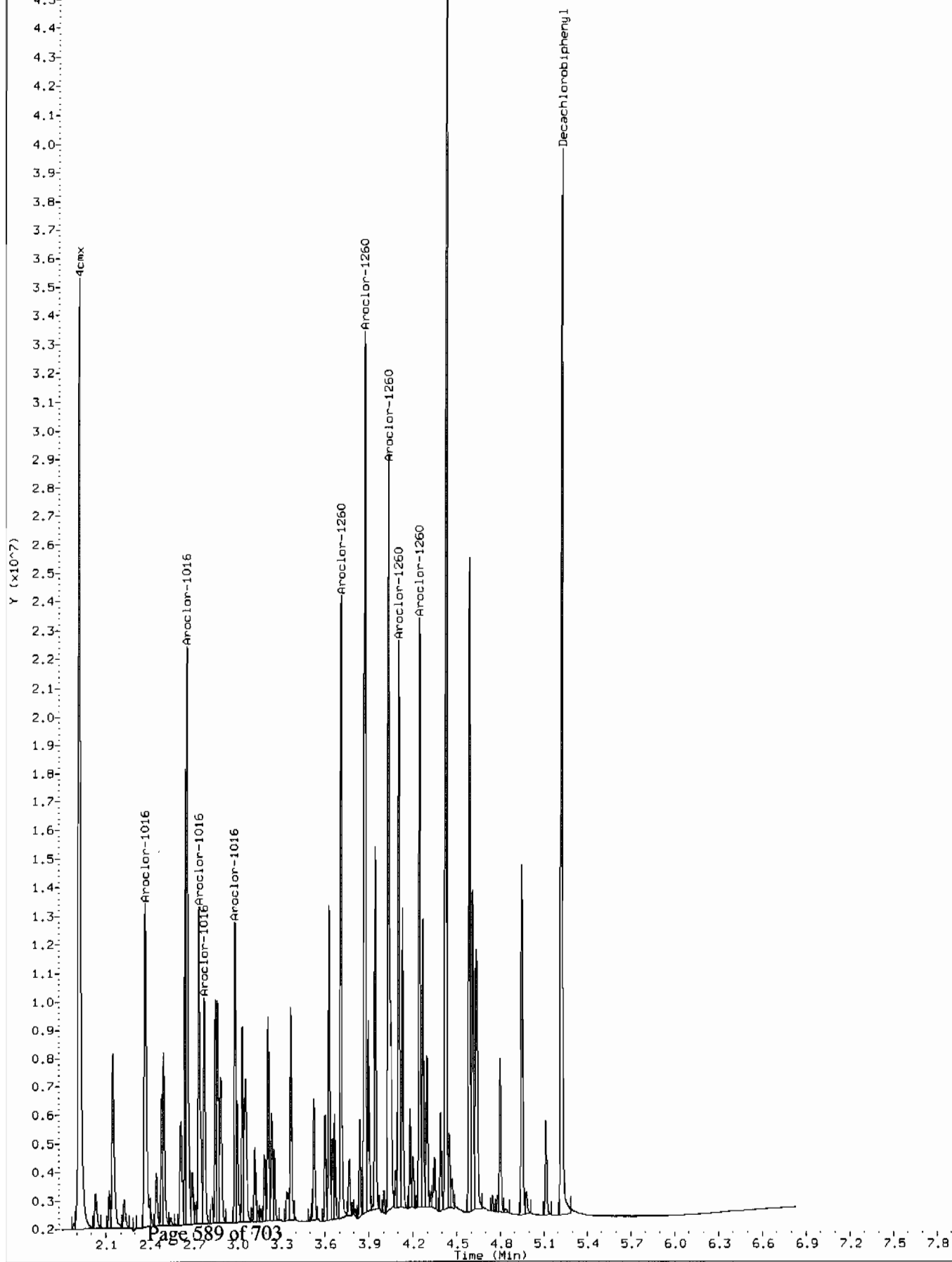
Column phase: CLP1

Operator: YSI

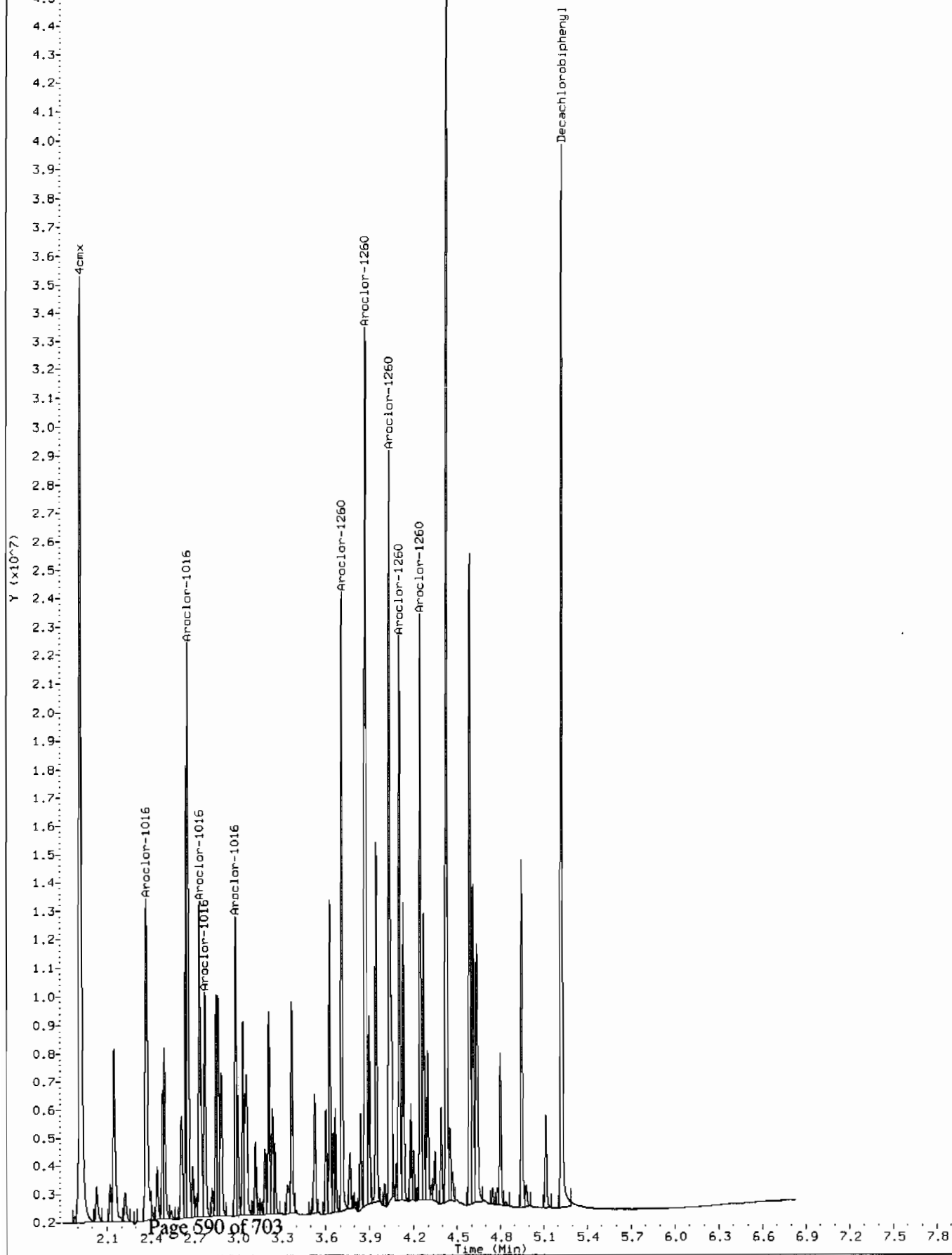
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Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030210.b/002f0201.d
Operator: YS1
Injection Date: 02-MAR-2010 05:48
Instrument: ecd1a.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdl.i/030210.b/orig-002f0201.d
Operator: YS1
Injection Date: 02-MAR-2010 05:48
Instrument: ecdla.i
Client Sample ID: AR166001



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030210.b/002b0201.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 02-MAR-2010 05:48

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdl1.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 10:14 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
=====			=====	=====	=====	=====	
11 4cmx				CAS #: 877-09-8			
2.277	2.277	0.000	26830245	100.000	90.2	80.00- 120.00	100.00

12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.920	5.920	0.000	19301689	100.000	91.3	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2			
3.172	3.172	0.000	12143694	1000.00	949	80.00- 120.00	100.00 (M)
3.255	3.255	0.000	7867097	1000.00	882	44.78- 84.78	64.78
3.318	3.318	0.000	4922583	1000.00	910	20.54- 60.54	40.54
3.545	3.545	0.000	6421359	1000.00	928	32.88- 72.88	52.88
3.621	3.621	0.000	6016906	1000.00	936	29.55- 69.55	49.55
Average of Peak Amounts =				921			

7 Aroclor-1260				CAS #: 11096-82-5			
4.312	4.312	0.000	11999897	1000.00	909	80.00- 120.00	100.00
4.436	4.436	0.000	14656446	1000.00	942	102.14- 142.14	122.14
4.702	4.702	0.000	11024062	1000.00	931	71.87- 111.87	91.87
4.875	4.875	0.000	11486010	1000.00	941	75.72- 115.72	95.72
5.023	5.023	0.000	25660444	1000.00	967	193.84- 233.84	213.84
Average of Peak Amounts =				938			

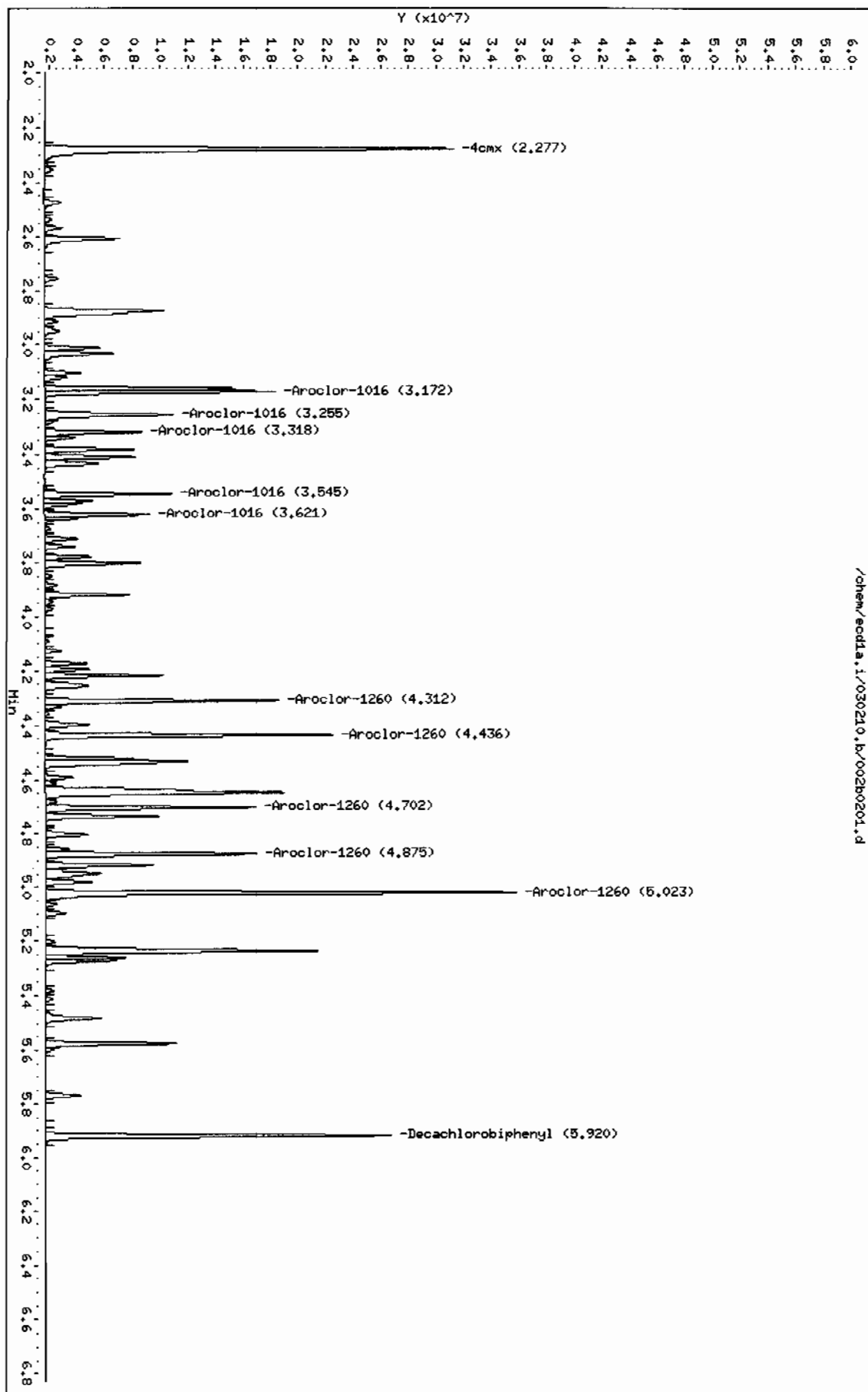
QC Flag Legend

M - Compound response manually integrated.

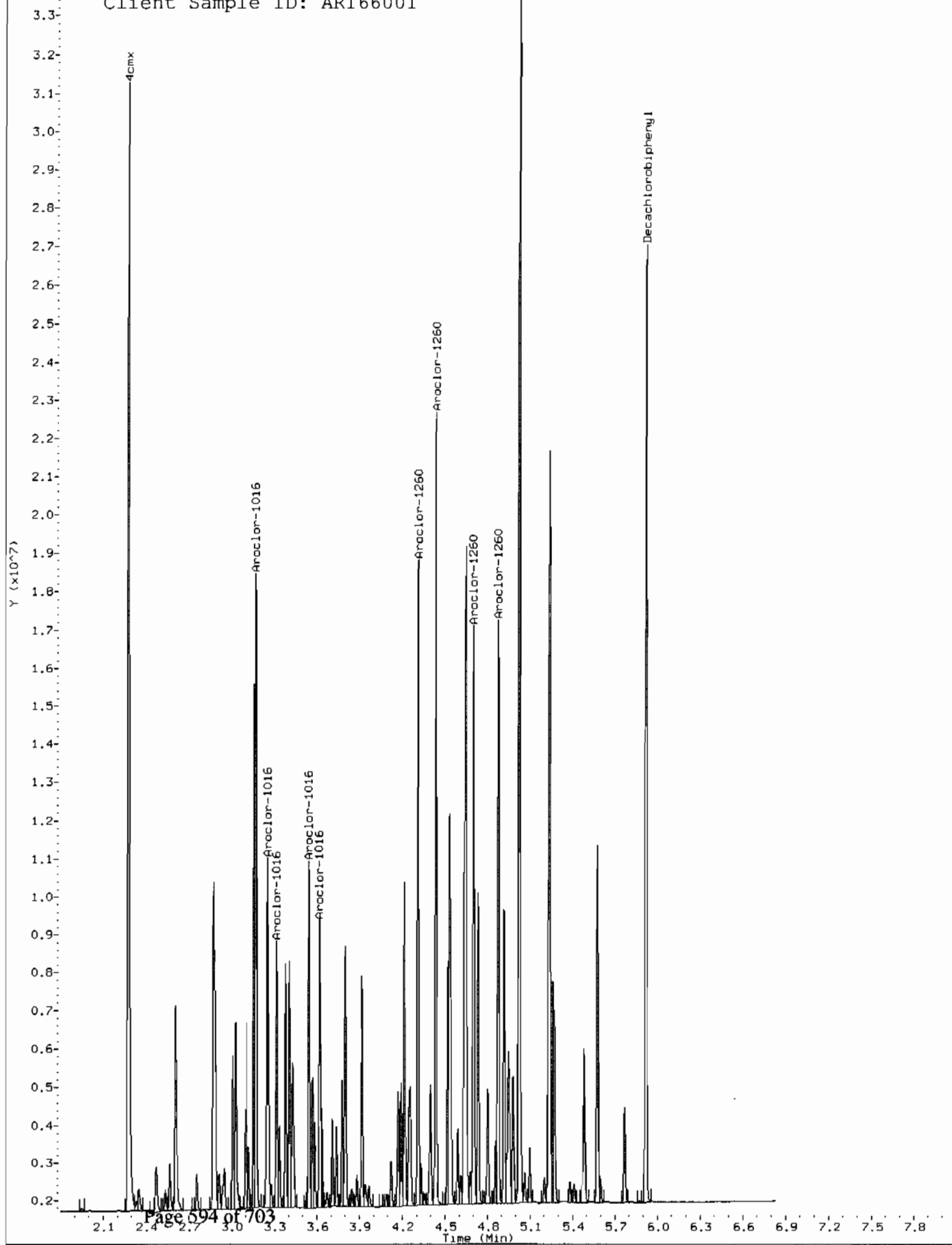
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Date: 02-MAR-2010 05:48
Client ID: AR16001
Sample Info: 1MAR100222-60 01

Column phase: CLP2

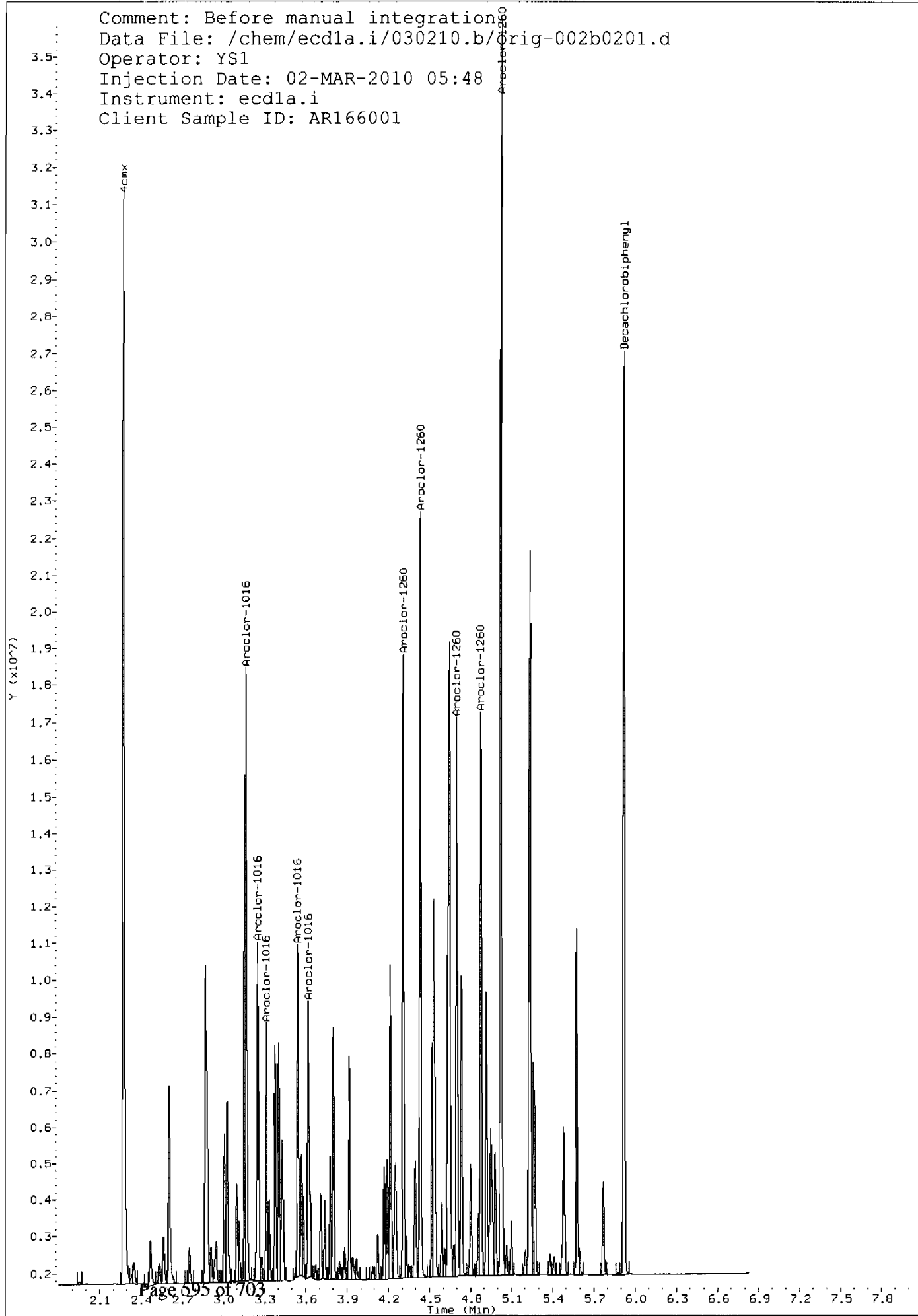
Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1.i/030210.b/002b0201.d
Operator: YS1
Injection Date: 02-MAR-2010 05:48
Instrument: ecd1a.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdl1a.i/030210.b/Orig-002b0201.d
Operator: YS1
Injection Date: 02-MAR-2010 05:48
Instrument: ecd1a.i
Client Sample ID: AR166001



Data File: /chem/ecdl1a.i/030210.b/003f0301.d
Report Date: 02-Mar-2010 10:15

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/003f0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 02-MAR-2010 05:59

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 10:14 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclpl

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	
3.216	3.216	0.000	12403329 1000.00	1030	80.00- 120.00	100.00(M)
3.371	3.371	0.000	16926158 1000.00	1070	116.46- 156.46	136.46
3.605	3.605	0.000	21941493 1000.00	1120	156.90- 196.90	176.90
3.768	3.768	0.000	16445123 1000.00	1190	112.59- 152.59	132.59
3.878	3.878	0.000	15574873 1000.00	1090	105.57- 145.57	125.57
Average of Peak Amounts =			1.1e+03			

QC Flag Legend

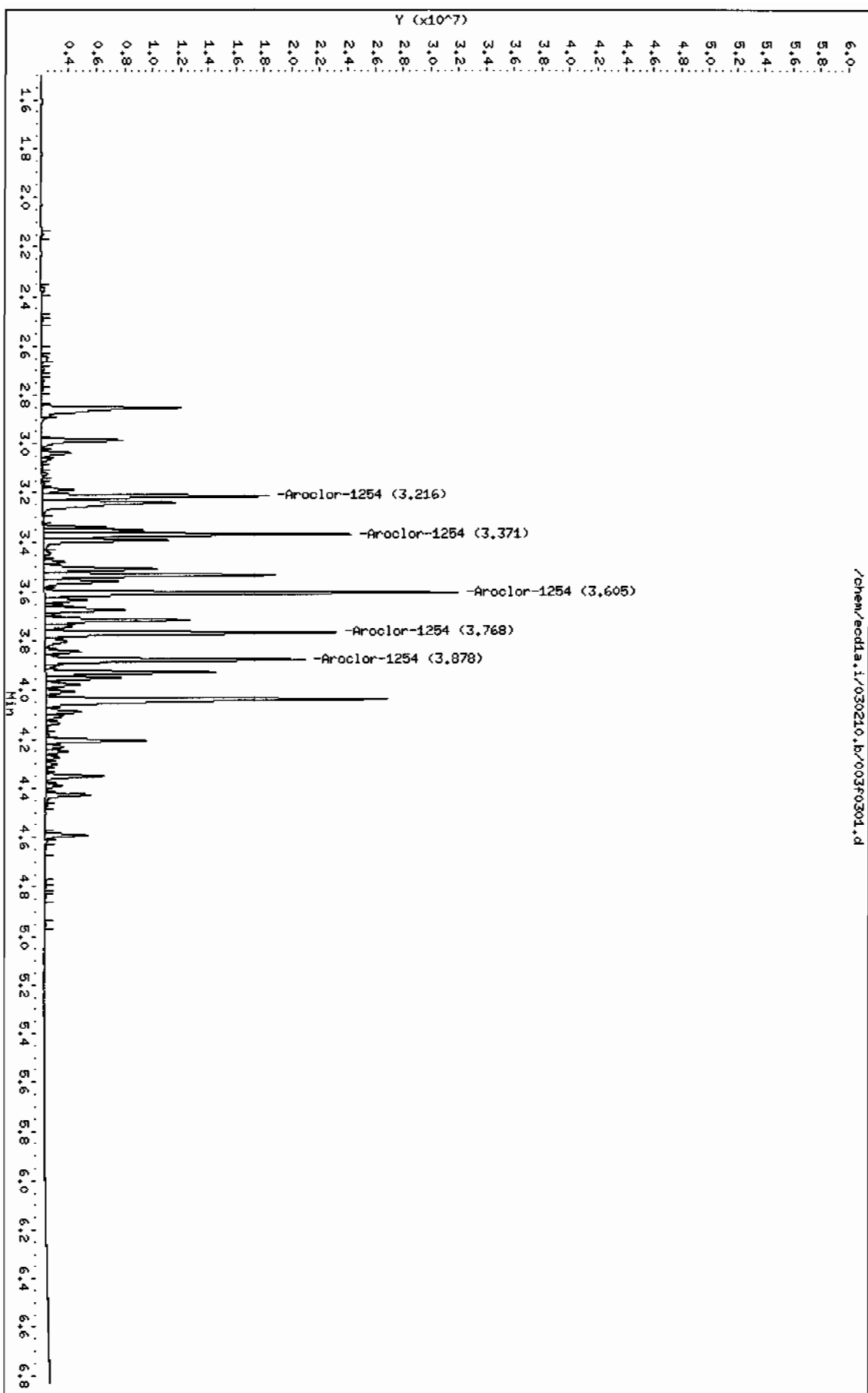
M - Compound response manually integrated.

Data File: /chem/eod1a.i/030210.b/003f0301.d
Date : 02-MAR-2010 05:59
Client ID: AR125401
Sample Info: 1MAR100219-54

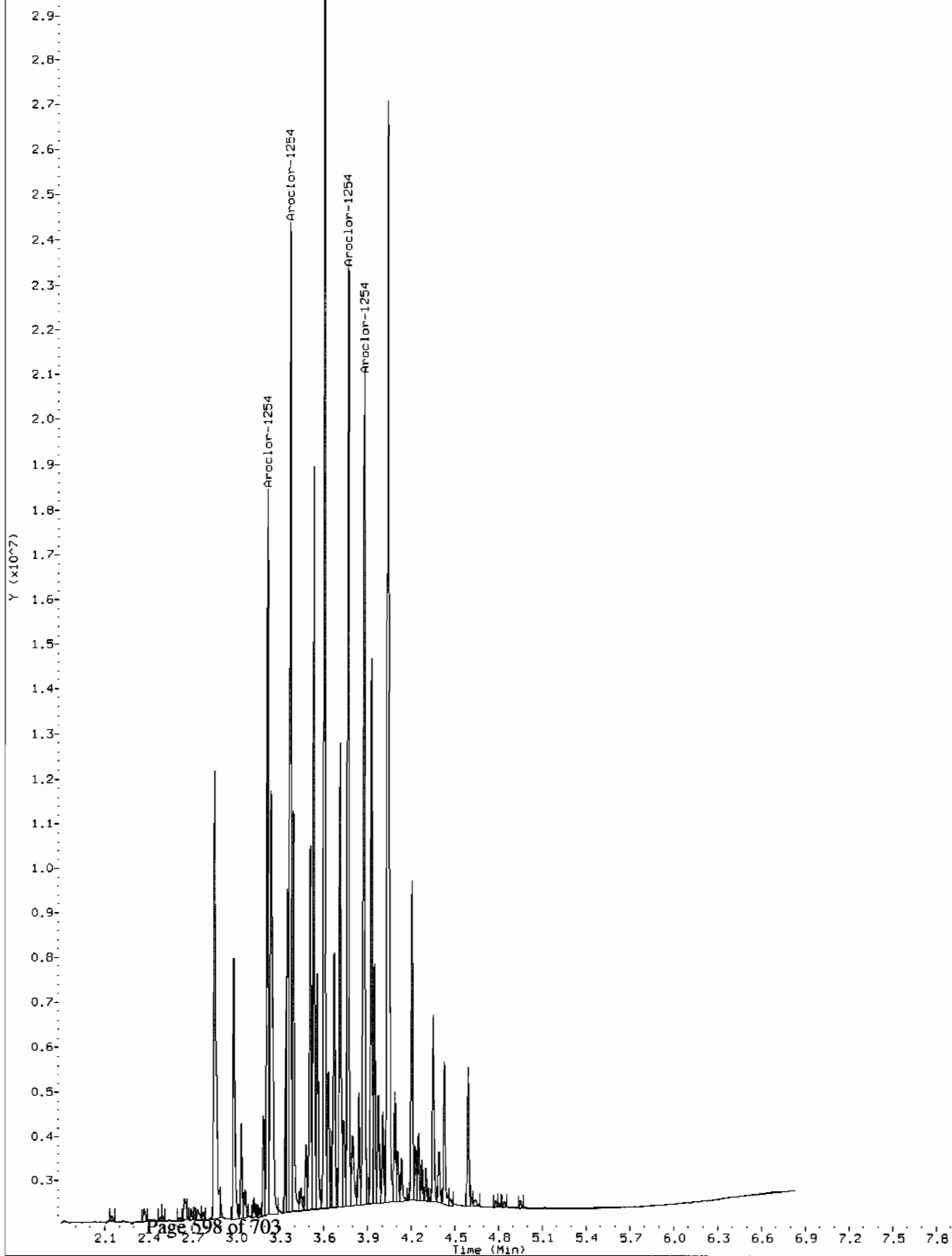
Page 1

Column phase: CLP1

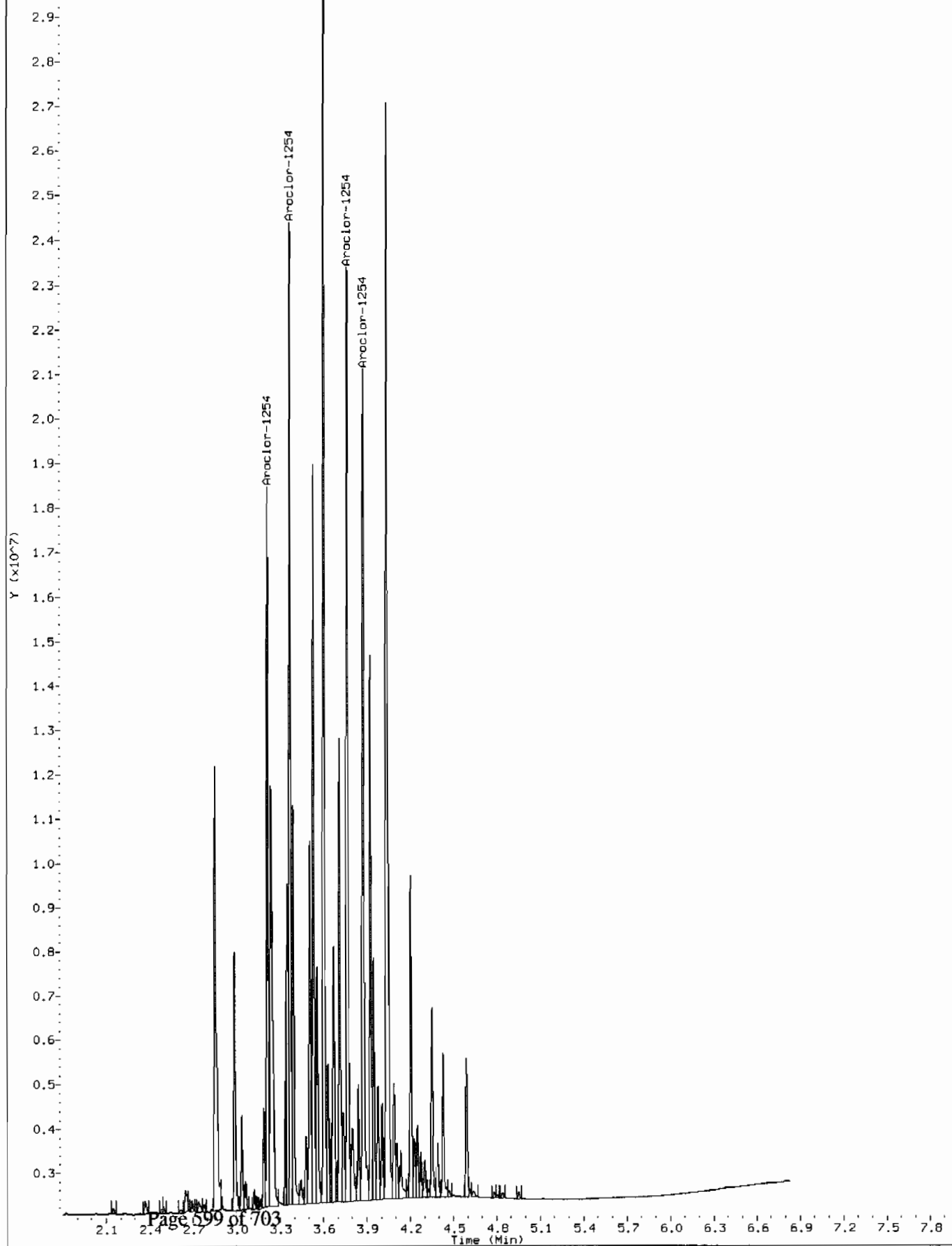
Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1.i/030210.b/003f0301.d
Operator: YS1
Injection Date: 02-MAR-2010 05:59
Instrument: ecdl1.i
Client Sample ID: AR125401



Comment: Before manual integration
Data File: /chem/ecdl1.i/030210.b/orig-003f0301.d
Operator: YS1
Injection Date: 02-MAR-2010 05:59
Instrument: ecdl1.i
Client Sample ID: AR125401



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/003b0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 02-MAR-2010 05:59

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdla.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 10:14 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254

CAS #: 11097-69-1

3.381	3.381	0.000	5767456	1000.00	950 80.00- 120.00	100.00
3.804	3.804	0.000	10482535	1000.00	976 161.75- 201.75	181.75
3.920	3.920	0.000	11655908	1000.00	1000 182.10- 222.10	202.10
4.196	4.196	0.000	16377774	1000.00	1030 263.97- 303.97	283.97
4.333	4.333	0.000	12016716	1000.00	1000 188.35- 228.35	208.35

Average of Peak Amounts =

992

Data File: /chem/ecdl.a.i/030210.b/003b0301.d

Date : 02-MAR-2010 05:59

Client ID: AR125401

Sample Info: 1MAR100219-54

Column phase: CLP2

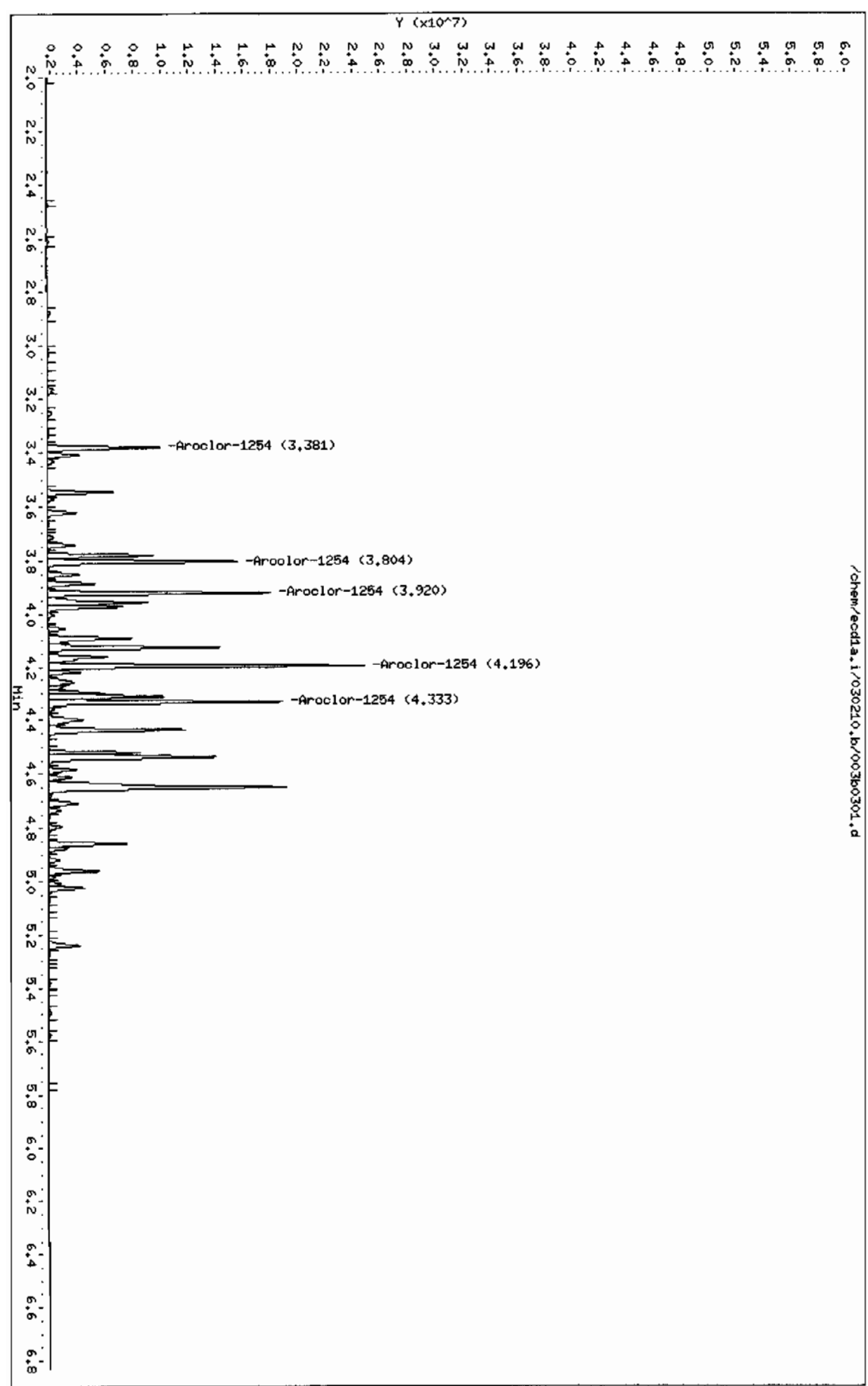
Page 1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/030210.b/003b0301.d



Data File: /chem/ecdl1a.i/030210.b/004f0401.d
Report Date: 02-Mar-2010 10:15

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/004f0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 02-MAR-2010 06:09

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 10:15 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.371	2.371	0.000	11423865	910	80.00- 120.00	100.00
2.658	2.658	0.000	15068439	1030	111.90- 151.90	131.90
2.777	2.777	0.000	5671544	1010	29.65- 69.65	49.65
2.987	2.987	0.000	7216142	987	43.17- 83.17	63.17
3.240	3.240	0.000	6934441	1120	40.70- 80.70	60.70

Average of Peak Amounts

1.01e+03

Data File: /chem/ecdl.a.i/030210.b/004f0401.d
Date : 02-MAR-2010 06:09
Client ID: AR124201
Sample Info: IWAR100219-42

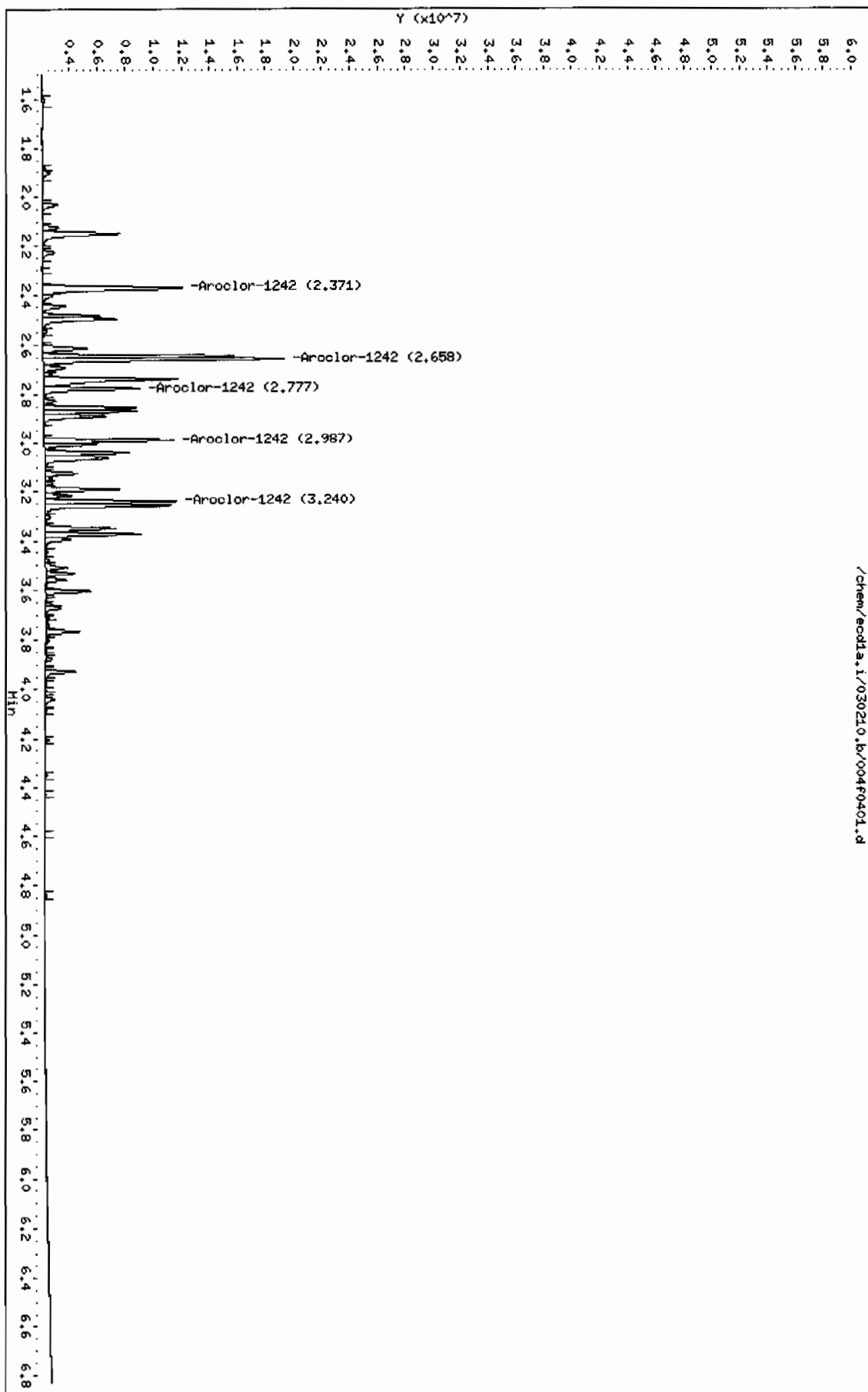
Instrument: ecdl.a.i

Page 1

Column phase: CLP1

Operator: YSI
Column diameter: 0.25

/chem/ecdl.a.i/030210.b/004f0401.d



Data File: /chem/ecdl1a.i/030210.b/004b0401.d
Report Date: 02-Mar-2010 10:15

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/004b0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 02-MAR-2010 06:09

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 10:15 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
3.172	3.172	0.000	10346806 1000.00	1000	80.00- 120.00	100.00
3.256	3.256	0.000	6726600 1000.00	924	45.01- 85.01	65.01
3.546	3.546	0.000	5319744 1000.00	922	31.41- 71.41	51.41
3.780	3.780	0.000	5639968 1000.00	974	34.51- 74.51	54.51
3.807	3.807	0.000	6303547 1000.00	949	40.92- 80.92	60.92
Average of Peak Amounts =				954		

Data File: /chem/ecdt1a.i/030210.b/004b0401.d
Date : 02-MAR-2010 06:09
Client ID: AR124201
Sample Info: 1MAR100219-42

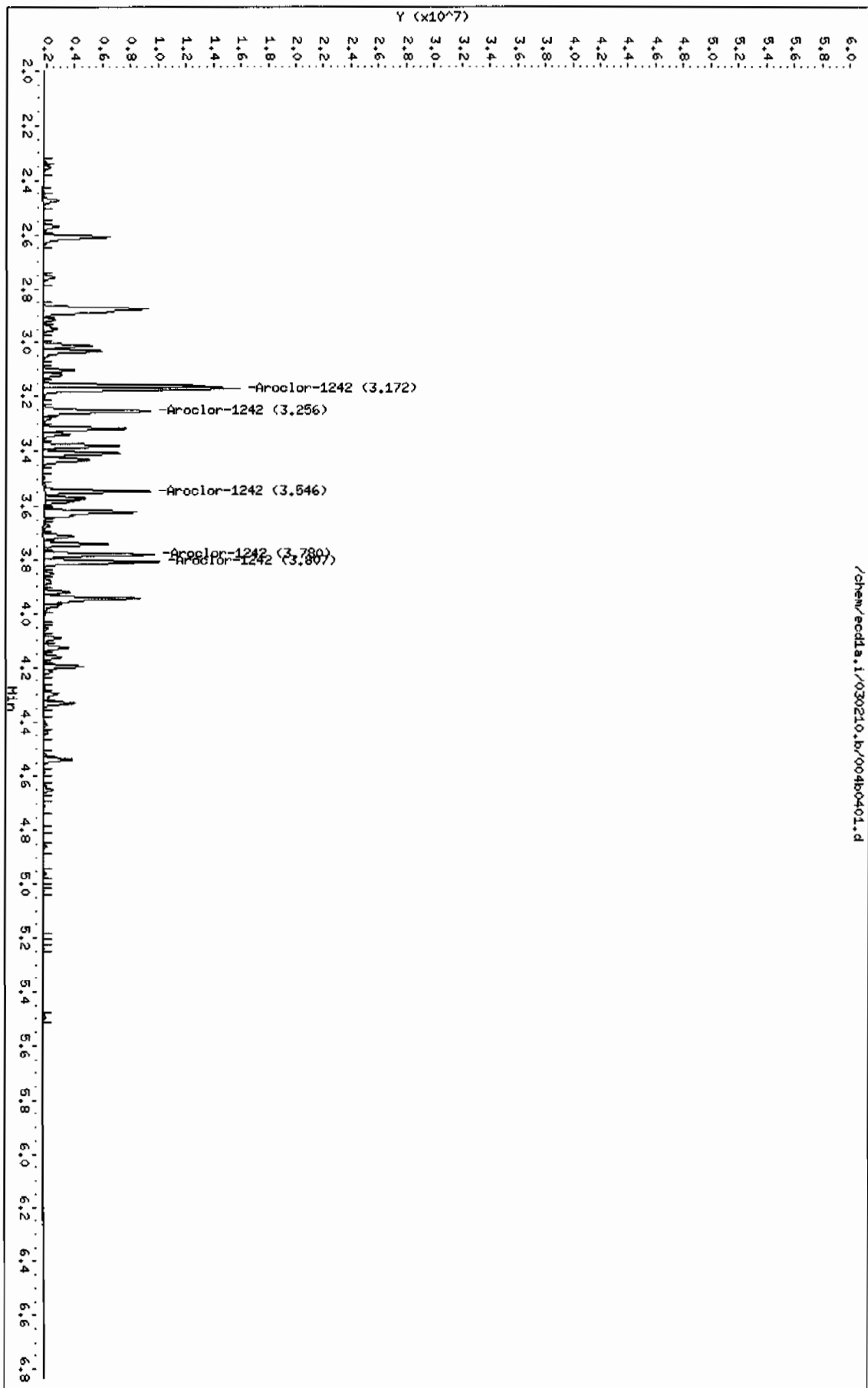
Instrument: ecdt1a.i

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Column phase: CLP2

Operator: YSL
Column diameter: 0.25

/chem/ecdt1a.i/030210.b/004b0401.d



Data File: /chem/ecdla.i/030210.b/005f0501.d
Report Date: 02-Mar-2010 10:15

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/005f0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 02-MAR-2010 06:20

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 10:15 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.853	2.853	0.000	9103384 1000.00	979 80.00- 120.00	100.00	
2.986	2.986	0.000	12324766 1000.00	993 115.39- 155.39	135.39	
3.240	3.240	0.000	13555667 1000.00	1110 128.91- 168.91	148.91	
3.372	3.372	0.000	11319796 1000.00	1090 104.35- 144.35	124.35	
3.605	3.605	0.000	7481719 1000.00	1100 62.19- 102.19	82.19	

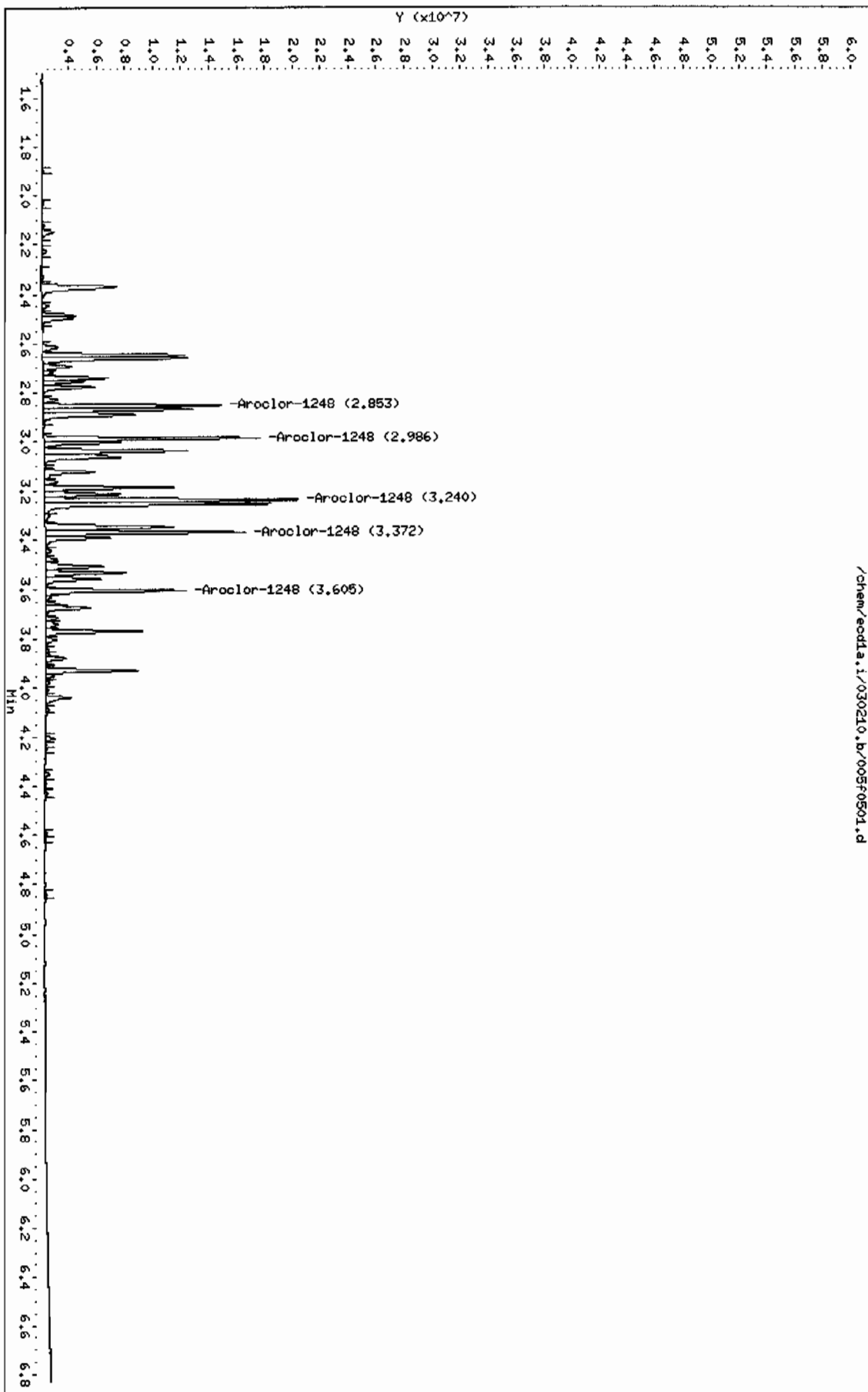
Average of Peak Amounts = 1.05e+03

Data File: /chem/eod1a.i/030210.b/005f0501.d
Date : 02-MAR-2010 06:20
Client ID: AR124801
Sample Info: 1MAR100223-48

Column phase: CLP1

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

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Data File: /chem/ecdl1a.i/030210.b/005b0501.d
Report Date: 02-Mar-2010 10:15

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/005b0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 02-MAR-2010 06:20

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 10:15 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

5 Aroclor-1248

CAS #: 12672-29-6

3.381	3.381	0.000	7147825 1000.00	940 80.00-	120.00	100.00
3.546	3.546	0.000	8995471 1000.00	961 105.85-	145.85	125.85
3.780	3.780	0.000	10653599 1000.00	1000 129.05-	169.05	149.05
3.807	3.807	0.000	11899695 1000.00	984 146.48-	186.48	166.48
3.944	3.944	0.000	11522516 1000.00	1000 141.20-	181.20	161.20

Average of Peak Amounts =

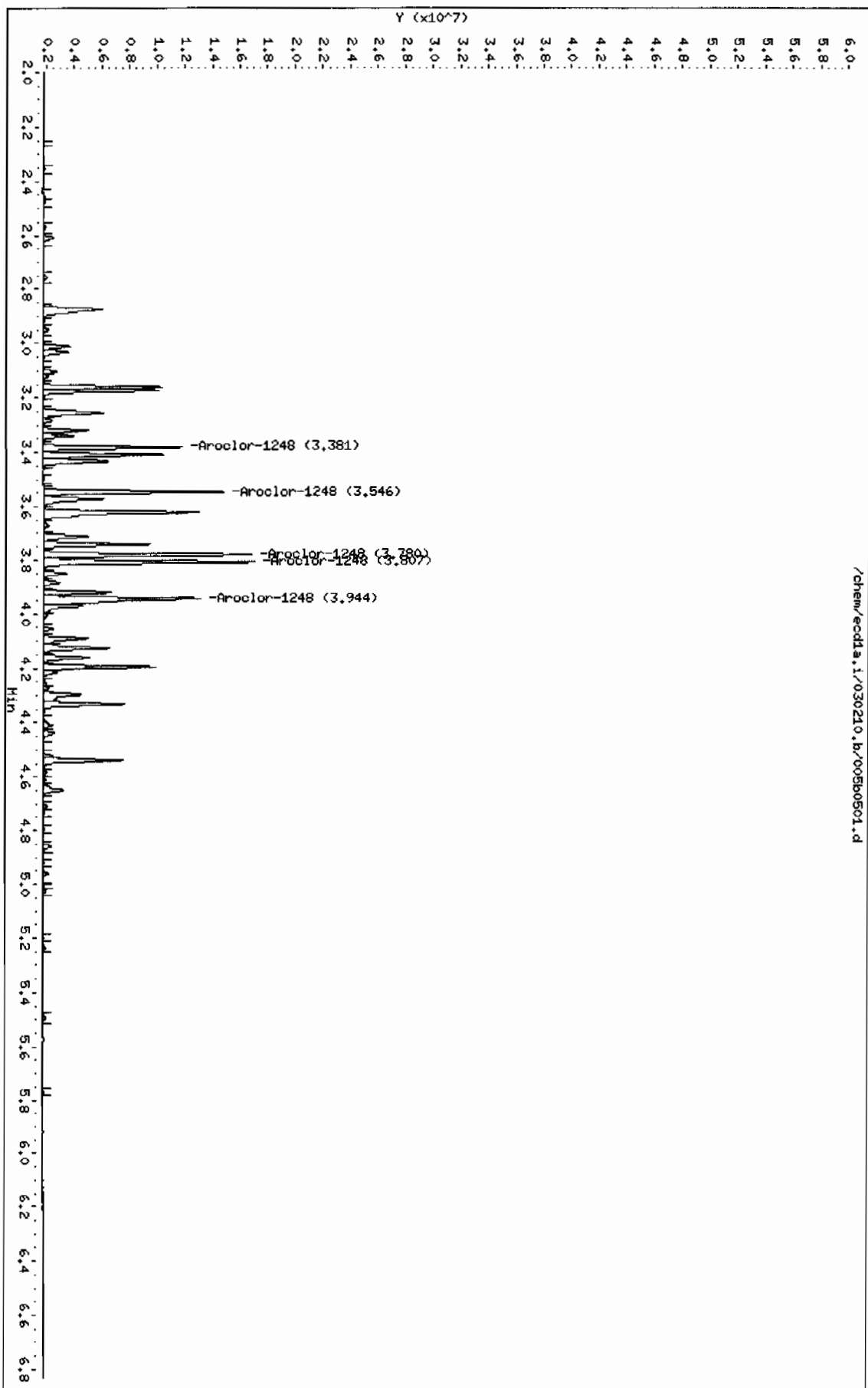
978

Data File: /chem/ecdl.a.i/030210.b/005b0501.d
Date : 02-MAR-2010 06:20
Client ID: AR124801
Sample Info: 1MAR100223-48

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Column phase: CLP2

Instrument: ecdl.a.i
Operator: YS1
Column diameter: 0.25



Data File: /chem/ecdl1.i/030210.b/007f0701.d
Report Date: 02-Mar-2010 10:16

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030210.b/007f0701.d

Lab Smp Id: WAR100104-32 Client Smp ID: AR123201

Inj Date : 02-MAR-2010 06:41

Operator : YS1 Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 10:16 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d

Als bottle: 7 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	-----	-----	-----	-----

3 Aroclor-1232

CAS #: 11141-16-5

2.371	2.371	0.000	6624526 1000.00	1060	80.00- 120.00	100.00
2.659	2.659	0.000	8503801 1000.00	1140	108.37- 148.37	128.37
2.740	2.740	0.000	5494888 1000.00	1120	62.95- 102.95	82.95
2.854	2.854	0.000	2590818 1000.00	1180	19.11- 59.11	39.11
3.240	3.240	0.000	3623152 1000.00	1330	34.69- 74.69	54.69

Average of Peak Amounts = 1.17e+03

Data File: /chem/ecdl1a.i/030210.b/0070701.d

Date : 02-MAR-2010 06:41

Client ID: AR123201

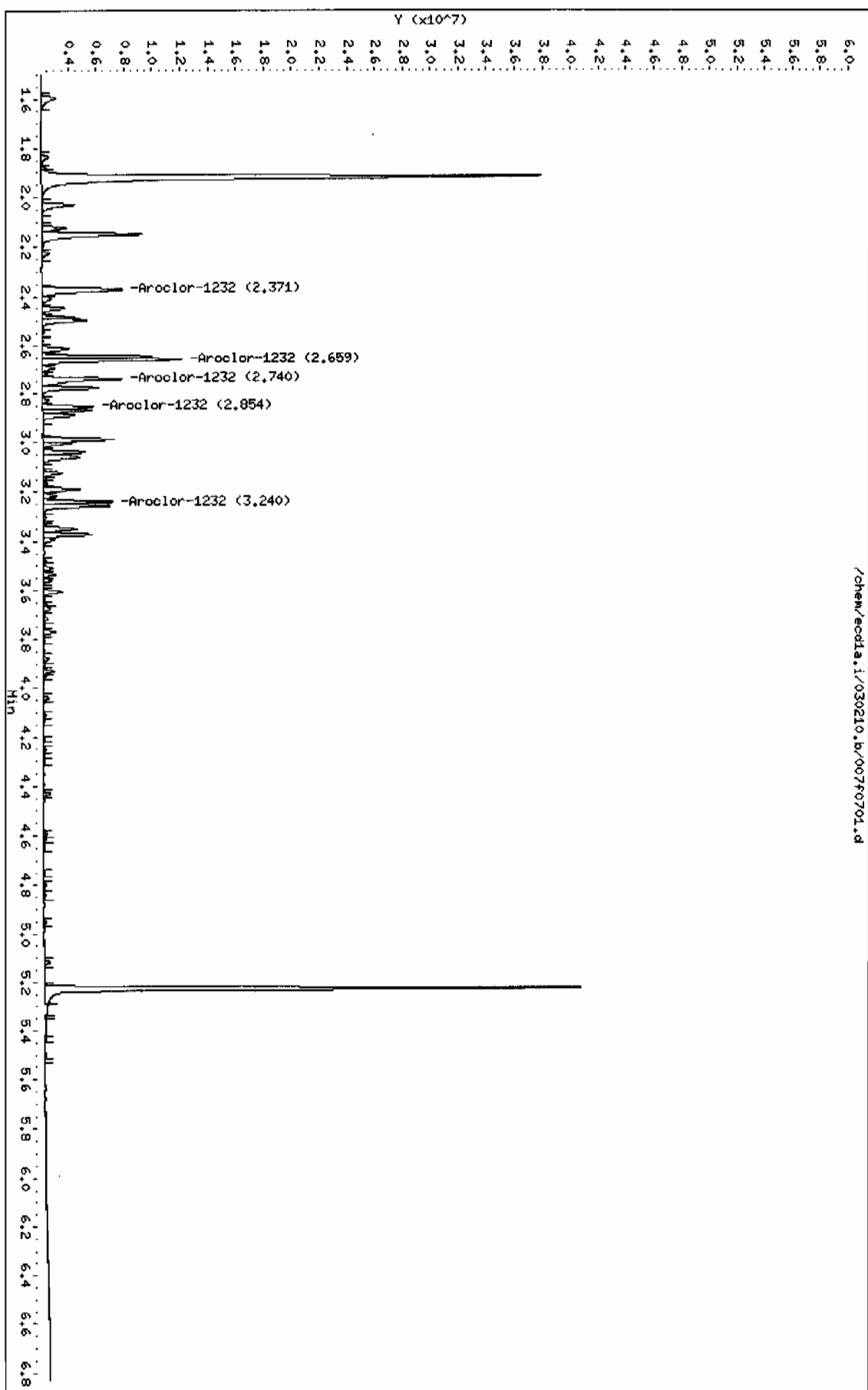
Sample Info: 1MRR00104-32

Column phase: CLP1

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdl1a.i/030210.b/007b0701.d
Report Date: 02-Mar-2010 10:16

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/007b0701.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 02-MAR-2010 06:41

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 10:16 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232			CAS #: 11141-16-5			
2.875	2.875	0.000	5217501	1000.00	1060 80.00- 120.00	100.00
3.173	3.173	0.000	5840014	1000.00	1110 91.93- 131.93	111.93
3.255	3.255	0.000	4026316	1000.00	1070 57.17- 97.17	77.17
3.546	3.546	0.000	2999908	1000.00	1110 37.50- 77.50	57.50
3.780	3.780	0.000	3006518	1000.00	1140 37.62- 77.62	57.62

Average of Peak Amounts = 1.1e+03

Data File: /chem/ecdl1a.i/030210.b/007b0701.d

Date: 02-MAR-2010 06:41

Client ID: AR123201

Sample Info: 14AR100104-32

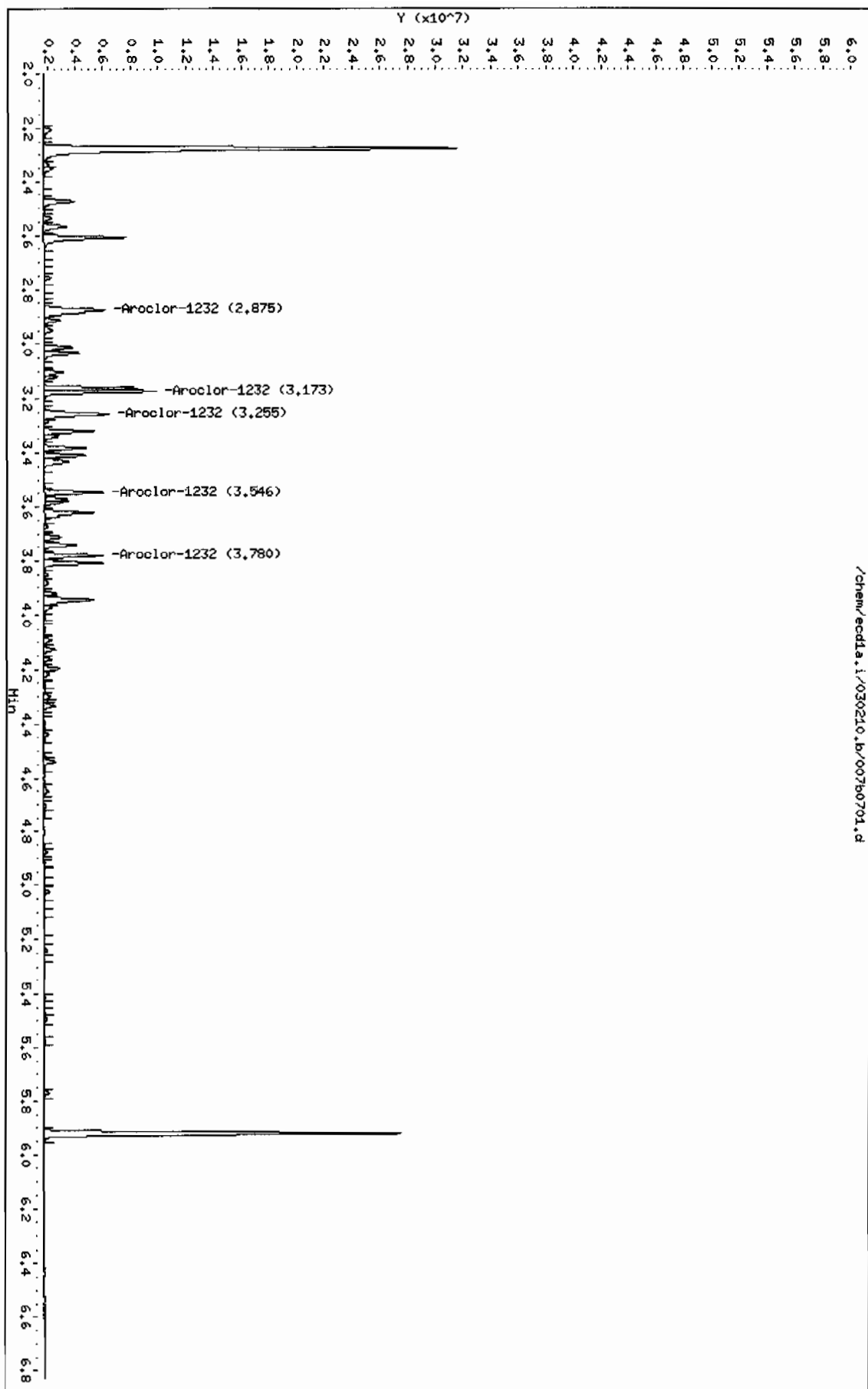
Column phase: CLP2

Instrument: ecdl1a.i

Operator: YSI

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/008f0801.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 02-MAR-2010 06:52

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 10:16 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 8

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (ug/L)	TARGET RANGE	RATIO
==	==	=====	=====	=====	=====	=====	=====
2 Aroclor-1221			CAS #: 11104-28-2				
2.031	2.031	0.000	4568692	1000.00	1040	80.00- 120.00	100.00
2.124	2.124	0.000	2569565	1000.00	1060	36.24- 76.24	56.24
2.149	2.149	0.000	11029401	1000.00	1060	221.41- 261.41	241.41
Average of Peak Amounts			1.05e+03				

Data File: /chem/ecdl.a.i/030210.b/008f0801.d

Date : 02-MAR-2010 06:52

Client ID: AR122101

Sample Info: 1MAR100104-21

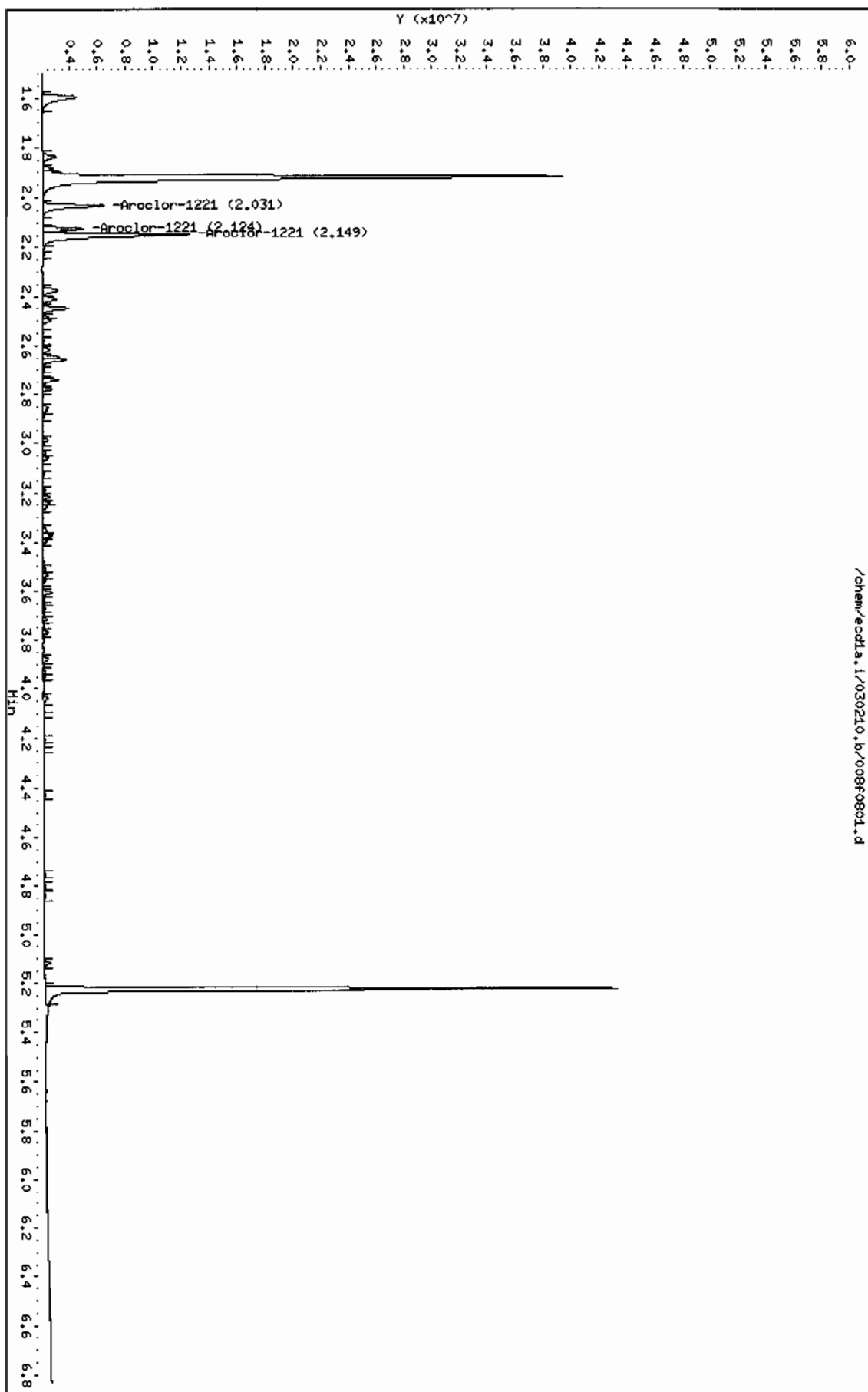
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/030210.b/008f0801.d



Data File: /chem/ecdl1a.i/030210.b/008b0801.d
Report Date: 02-Mar-2010 10:16

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/008b0801.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 02-MAR-2010 06:52

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 10:16 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 8

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

2 Aroclor-1221			CAS #: 11104-28-2			
2.474	2.474	0.000	3609201 1000.00	1050	80.00- 120.00	100.00
2.568	2.568	0.000	2267767 1000.00	1050	42.83- 82.83	62.83
2.609	2.609	0.000	7759221 1000.00	1060	194.98- 234.98	214.98

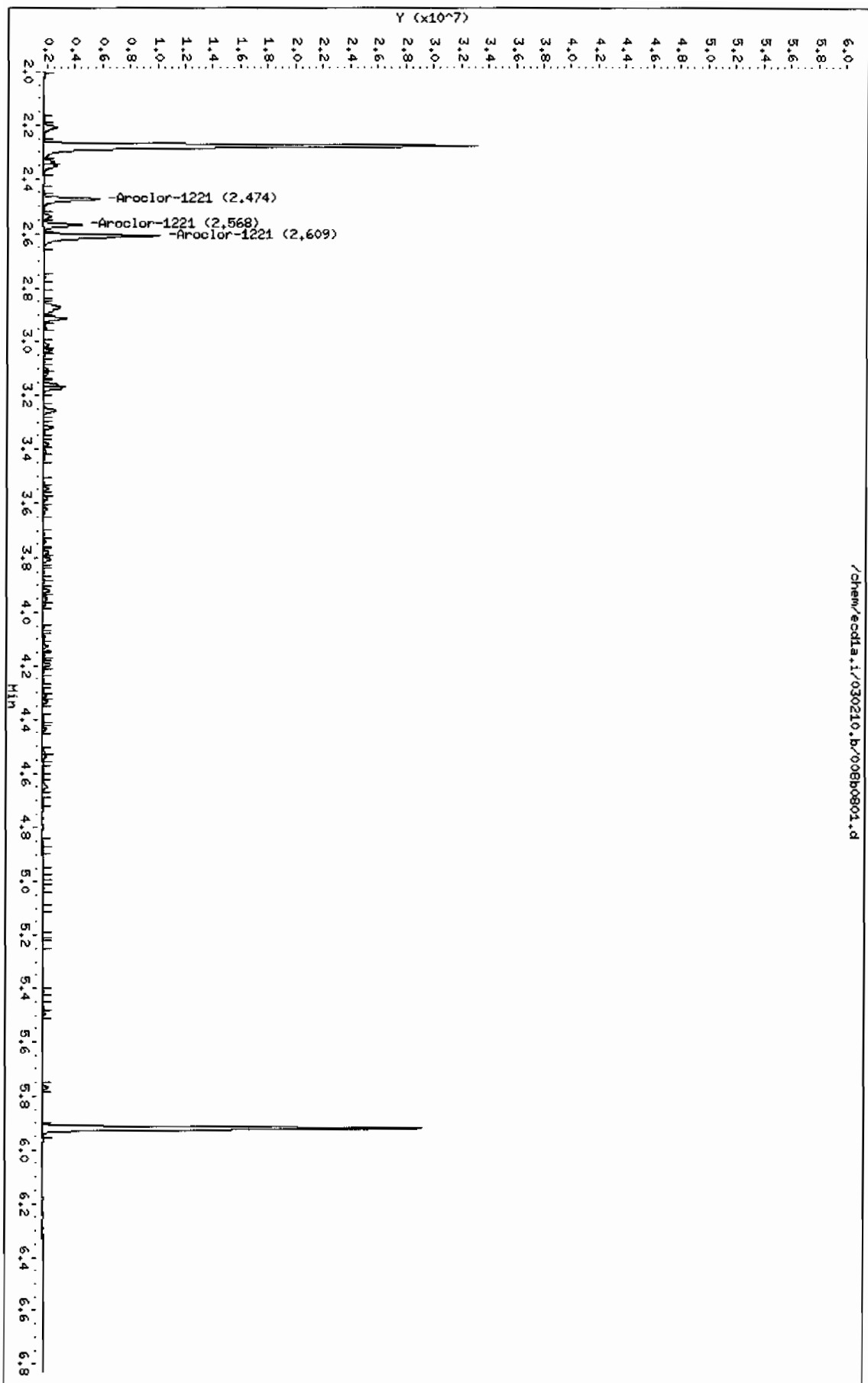
Average of Peak Amounts = 1.05e+03

Data File: /chem/ecdl.a.i/030210.b/008b0801.d
Date : 02-Mar-2010 06:52
Client ID: AR122101
Sample Info: 1MAR100104-21

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Column phase: CLP2

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030210.b/040f4001.d
 Report Date: 02-Mar-2010 13:52

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/040f4001.d
 Lab Smp Id: WAR100222-60 04 Client Smp ID: AR166004
 Inj Date : 02-MAR-2010 13:36
 Operator : YSl Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 04
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m
 Meth Date : 02-Mar-2010 13:52 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 40 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	==	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
1.919	1.918	0.001	41077856	100.000	95.4 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.223	5.224	-0.001	30148420	100.000	98.1 80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.371	2.371	0.000	14131202	1000.00	918 80.00- 120.00	100.00
2.658	2.658	0.000	18270939	1000.00	1000 109.30- 149.30	129.30
2.738	2.738	0.000	11700813	1000.00	970 62.80- 102.80	82.80
2.775	2.775	0.000	7044819	1000.00	993 29.85- 69.85	49.85
2.985	2.986	-0.001	8882281	1000.00	997 42.86- 82.86	62.86
Average of Peak Amounts =				976		

7 Aroclor-1260				CAS #: 11096-82-5		
3.710	3.712	-0.002	17231229	1000.00	1010 80.00- 120.00	100.00
3.874	3.874	0.000	25805771	1000.00	1090 129.76- 169.76	149.76
4.035	4.037	-0.002	27601411	1000.00	1100 140.18- 180.18	160.18
4.104	4.105	-0.001	15475929	1000.00	1070 69.81- 109.81	89.81
4.246	4.248	-0.002	16024853	1000.00	1110 73.00- 113.00	93.00
Average of Peak Amounts =				1.08e+03		

Data File: /chem/ecdda.i/030210.b/04044001.d

Date: 02-MAR-2010 13:36

Client ID: AR16004

Sample Info: IWR40022-60 04

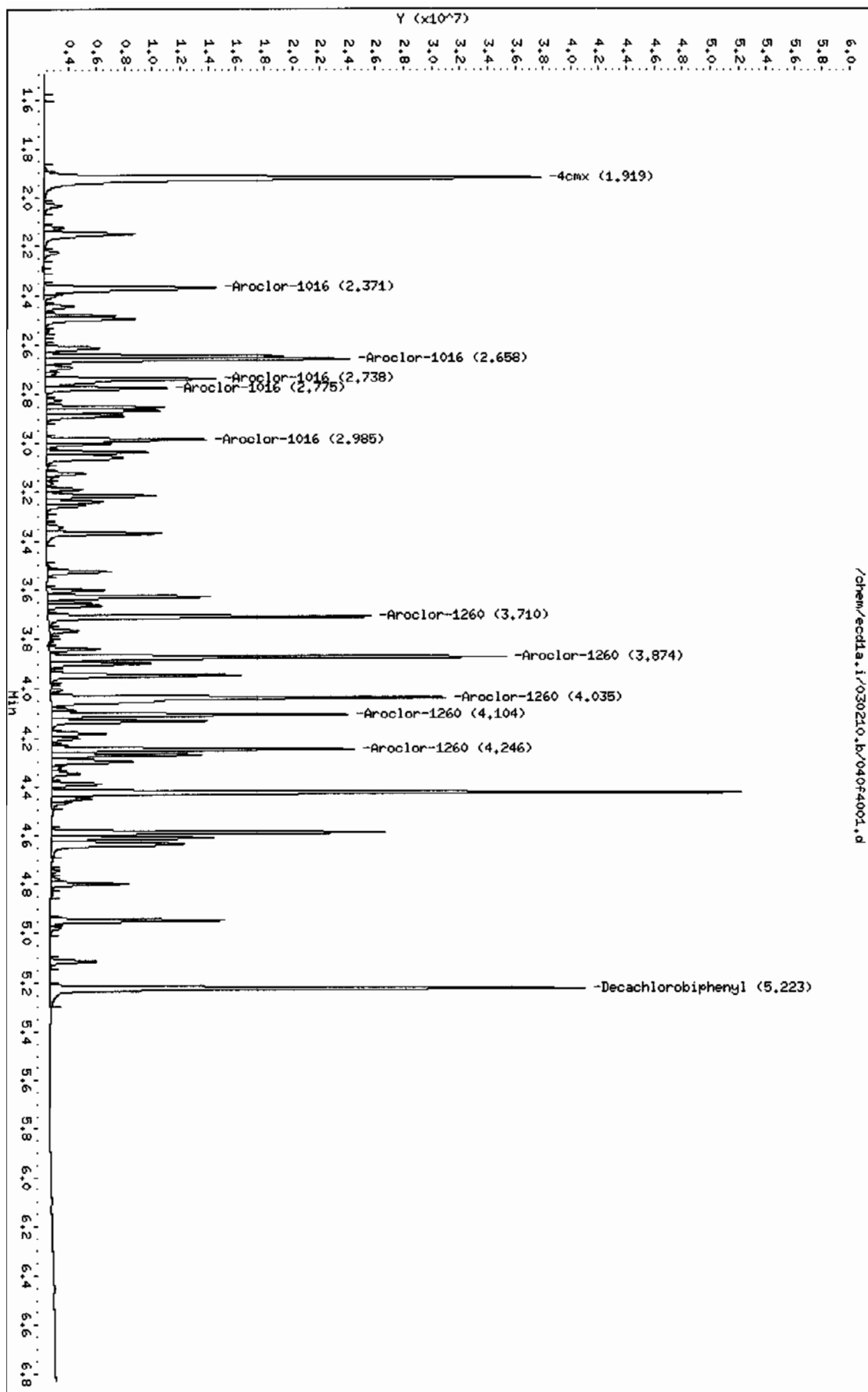
Column phase: CLP1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

/chem/ecdda.i/030210.b/04044001.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/040b4001.d

Lab Smp Id: WAR100222-60 04

Client Smp ID: AR166004

Inj Date : 02-MAR-2010 13:36

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 04

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 13:52 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 40

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		
2.277	2.277	0.000	27628297 100.000	92.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.919	5.920	-0.001	18526156 100.000	87.6	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.172	3.172	0.000	12456056 1000.00	974	80.00- 120.00	100.00
3.254	3.255	-0.001	8189559 1000.00	918	45.75- 85.75	65.75
3.318	3.318	0.000	5091389 1000.00	942	20.87- 60.87	40.87
3.545	3.545	0.000	6555102 1000.00	948	32.63- 72.63	52.63
3.620	3.621	-0.001	6019375 1000.00	937	28.32- 68.32	48.32
Average of Peak Amounts =				944		

7 Aroclor-1260				CAS #: 11096-82-5		
4.311	4.312	-0.001	12044016 1000.00	912	80.00- 120.00	100.00
4.435	4.436	-0.001	14650475 1000.00	941	101.64- 141.64	121.64
4.701	4.702	-0.001	10918169 1000.00	922	70.65- 110.65	90.65
4.874	4.875	-0.001	11355103 1000.00	931	74.28- 114.28	94.28
5.022	5.023	-0.001	25288775 1000.00	953	189.97- 229.97	209.97
Average of Peak Amounts =				932		

Data File: /chem/ecda.i/030210.b/040b4001.d

Date : 02-MAR-2010 13:36

Client ID: AR16004

Sample Info: IWR100222-60 04

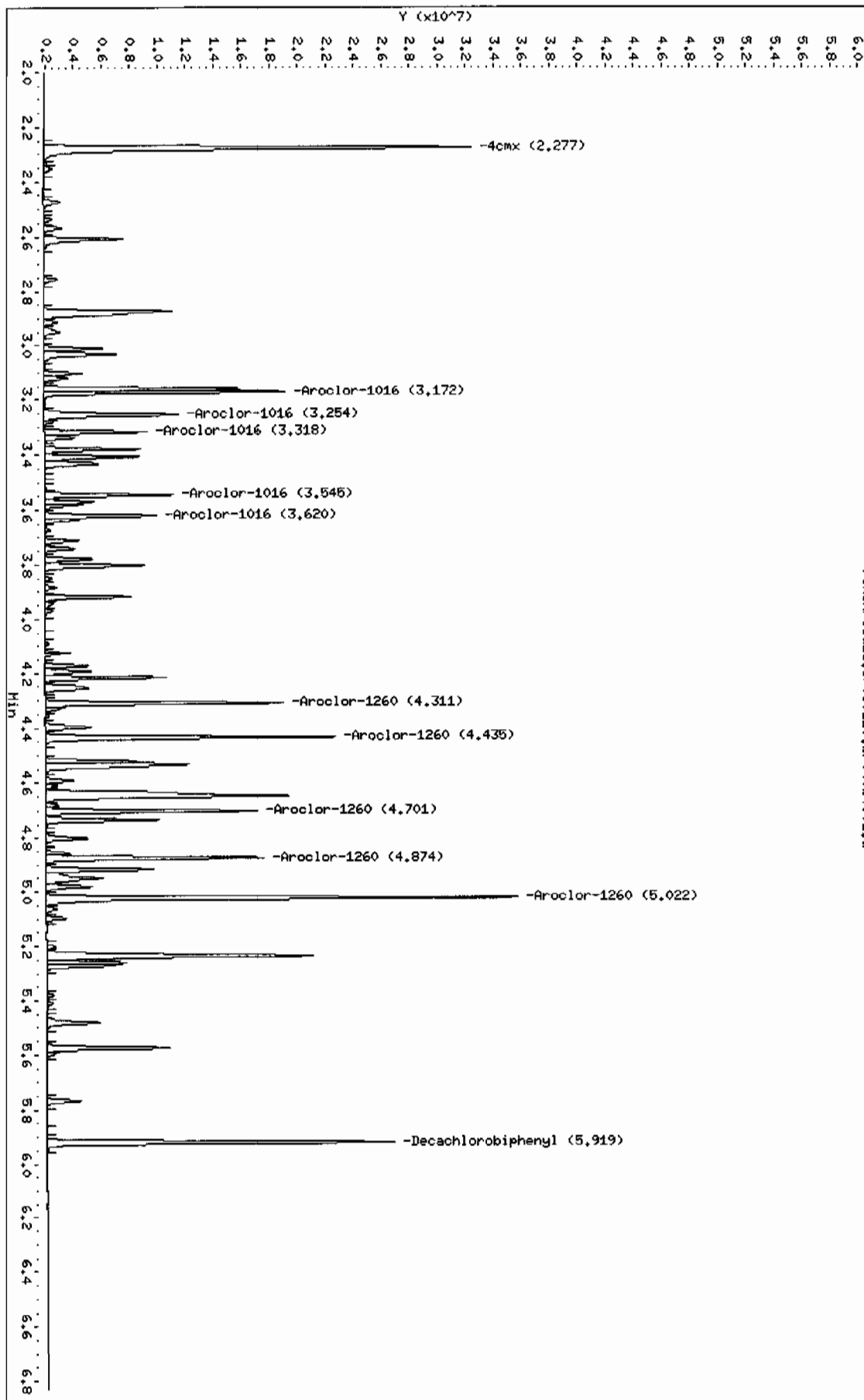
Column phase: QLP2

Instrument: ecda.i

Operator: YS4

Column diameter: 0.25

/chem/ecda.i/030210.b/040b4001.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/052f5201.d

Lab Smp Id: WAR100222-60 05

Client Smp ID: AR166005

Inj Date : 02-MAR-2010 16:00

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 05

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:26 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 52

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====

\$ 11 4cmx

CAS #: 877-09-8

1.919	1.918	0.001	43105057	100.000	100	80.00- 120.00	100.00
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\$ 12 Decachlorobiphenyl

CAS #: 2051-24-3

5.224	5.224	0.000	32618304	100.000	106	80.00- 120.00	100.00
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1 Aroclor-1016

CAS #: 12674-11-2

2.371	2.371	0.000	15690570	1000.00	1020	80.00- 120.00	100.00
2.657	2.658	-0.001	19865321	1000.00	1090	106.61- 146.61	126.61
2.738	2.738	0.000	12335452	1000.00	1020	58.62- 98.62	78.62
2.775	2.775	0.000	7507027	1000.00	1060	27.84- 67.84	47.84
2.985	2.986	-0.001	9604113	1000.00	1080	41.21- 81.21	61.21

Average of Peak Amounts 1.05e+03

7 Aroclor-1260

CAS #: 11096-82-5

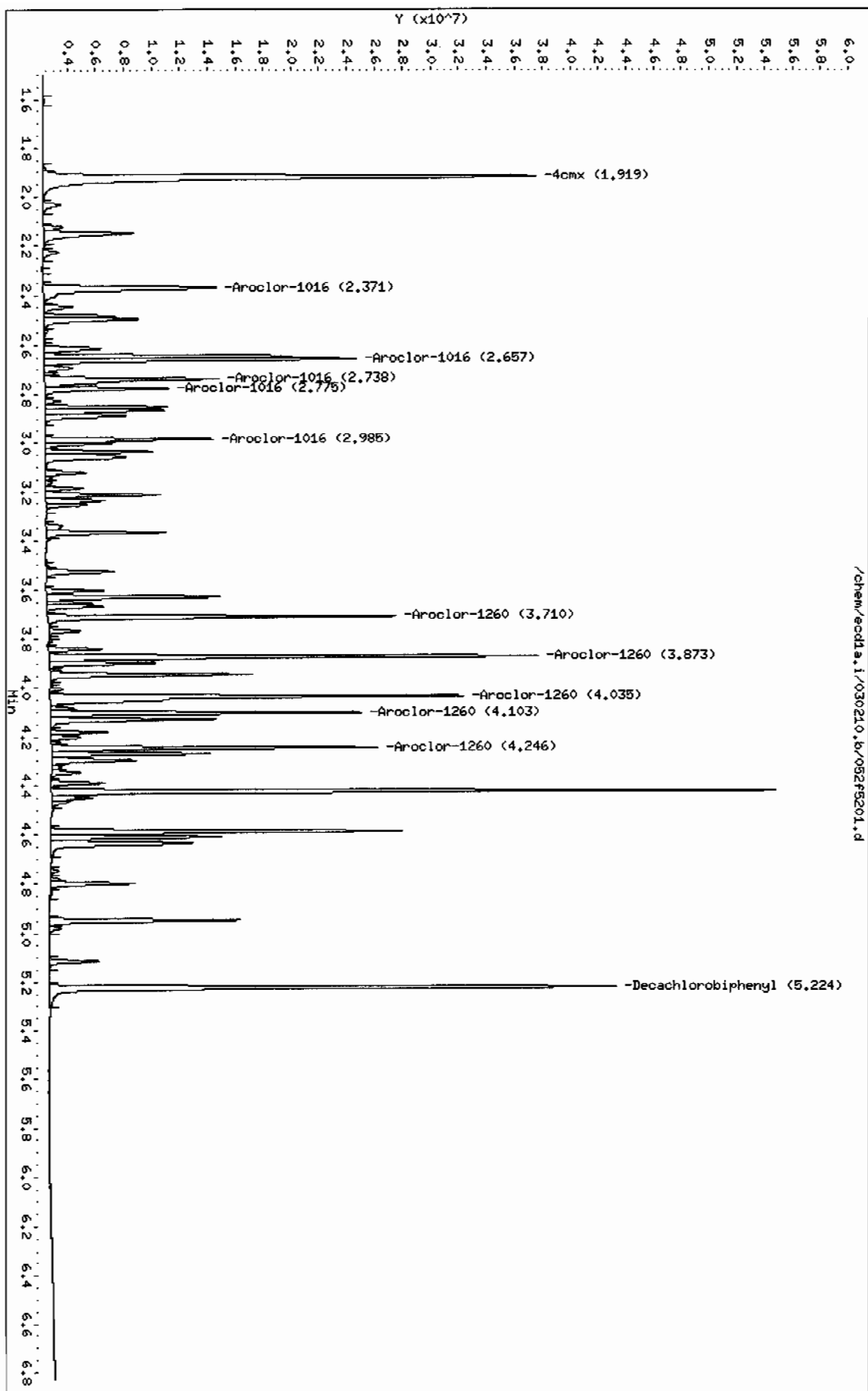
3.710	3.712	-0.002	18229030	1000.00	1070	80.00- 120.00	100.00
3.873	3.874	-0.001	27315390	1000.00	1160	129.85- 169.85	149.85
4.035	4.037	-0.002	29254544	1000.00	1170	140.48- 180.48	160.48
4.103	4.105	-0.002	16413662	1000.00	1140	70.04- 110.04	90.04
4.246	4.248	-0.002	17015675	1000.00	1180	73.34- 113.34	93.34

Average of Peak Amounts = 1.14e+03

Data File: /chem/ecdl1a.i/030210.b/052f5201.d
Date : 02-MAR-2010 16:00
Client ID: AR166005
Sample Info: IMR100222-60 05

Column phase: CLP1

Instrument: ecdl1a.i
Operator: VS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/052b5201.d
 Lab Smp Id: WAR100222-60 05 Client Smp ID: AR166005
 Inj Date : 02-MAR-2010 16:00
 Operator : YSl Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 05
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m
 Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 52 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpc1p1

AMOUNTS							
			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx				CAS #: 877-09-8			
2.277	2.277	0.000	29141753 100.000	98.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.920	5.920	0.000	20148844 100.000	95.3	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
3.171	3.172	-0.001	13122983 1000.00	1030	80.00- 120.00	100.00 (M)	
3.254	3.255	-0.001	8560645 1000.00	960	47.37- 87.37	65.23	
3.317	3.318	-0.001	5377608 1000.00	995	22.21- 62.21	40.98	
3.545	3.545	0.000	6694102 1000.00	968	32.72- 72.72	51.01	
3.620	3.621	-0.001	6305142 1000.00	981	39.37- 79.37	57.46	
Average of Peak Amounts				986			

7 Aroclor-1260				CAS #: 11096-82-5			
4.310	4.312	-0.002	12886014 1000.00	976	80.00- 120.00	100.00	
4.435	4.436	-0.001	15743699 1000.00	1010	102.41- 142.41	122.18	
4.700	4.702	-0.002	11787027 1000.00	995	72.20- 112.20	91.47	
4.875	4.875	0.000	12223405 1000.00	1000	75.57- 115.57	94.86	
5.021	5.023	-0.002	27329298 1000.00	1030	193.84- 233.84	212.08	
Average of Peak Amounts "				1e+03			

QC Flag Legend

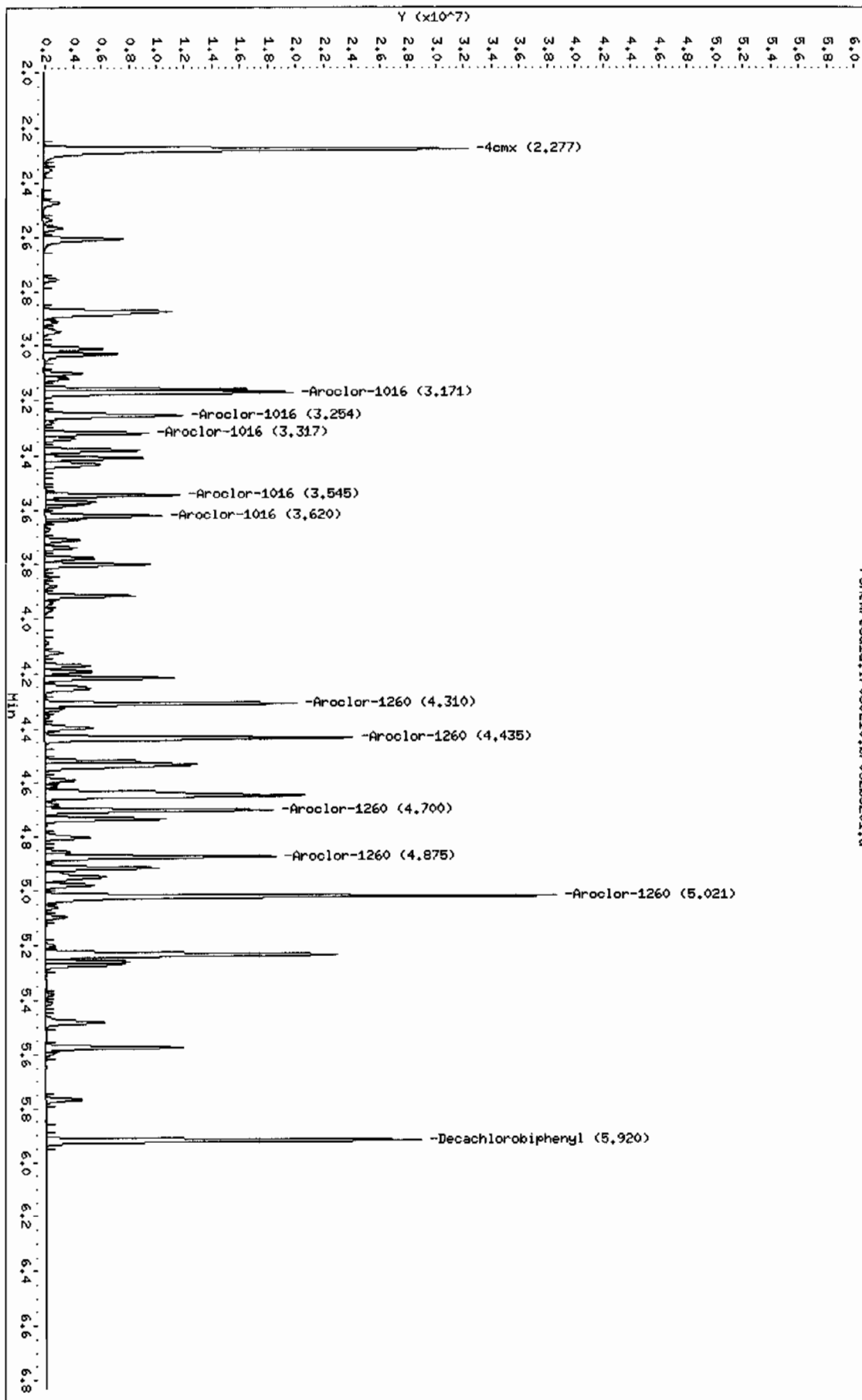
M - Compound response manually integrated.

Data File: /chem/ecdt1a.i/030210.b/052b5201.d
Date: 02-MAR-2010 16:00
Client ID: AR166005
Sample Info: MAR100222-60 05

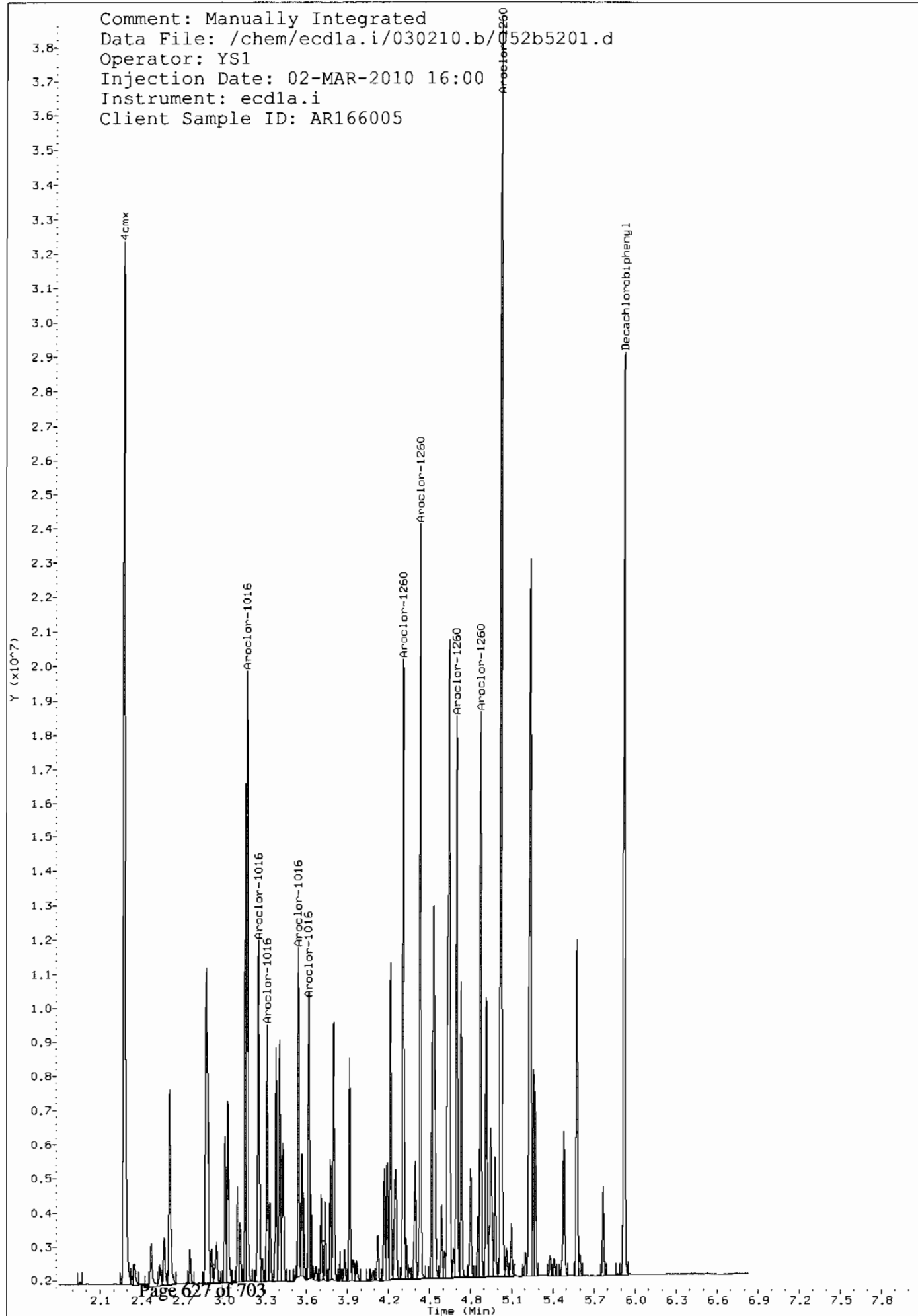
Column phase: CLP2

Instrument: ecdt1a.i
Operator: VSI
Column diameter: 0.25

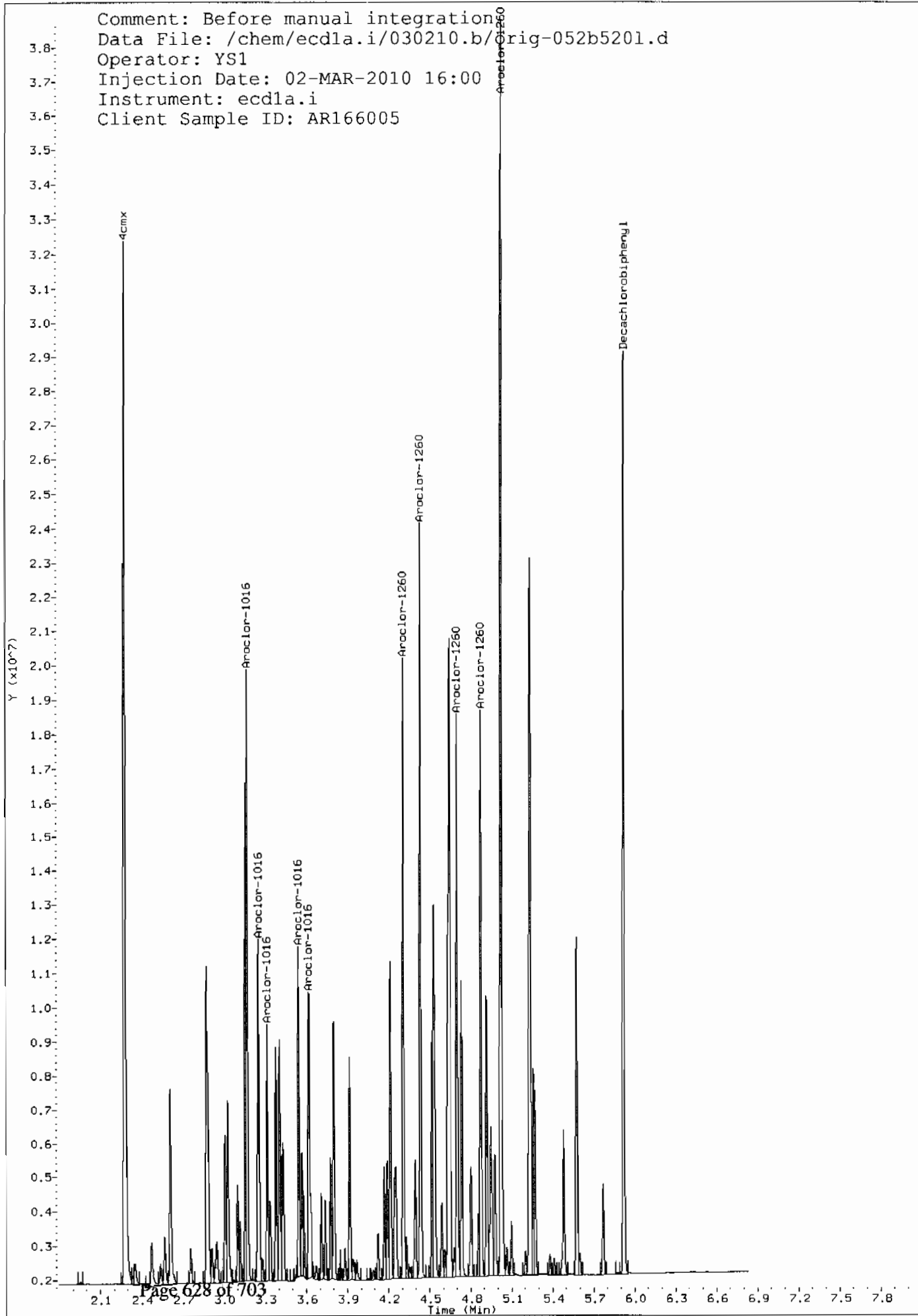
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Comment: Manually Integrated
Data File: /chem/ecdl1.i/030210.b/52b5201.d
Operator: YS1
Injection Date: 02-MAR-2010 16:00
Instrument: ecld1.i
Client Sample ID: AR166005



Comment: Before manual integration
Data File: /chem/ecdl1a.i/030210.b/Orig-052b5201.d
Operator: YS1
Injection Date: 02-MAR-2010 16:00
Instrument: ecd1a.i
Client Sample ID: AR166005



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030210.b/058f5801.d

Lab Smp Id: WAR100222-60 06

Client Smp ID: AR166006

Inj Date : 02-MAR-2010 17:11

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 06

Misc Info :

Comment :

Method : /chem/ecdl1.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 58

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
1.918	1.918	0.000	40593267 100.000	94.3	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.223	5.224	-0.001	30886459 100.000	100	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.371	2.371	0.000	14378810 1000.00	935	80.00- 120.00	100.00
2.657	2.658	-0.001	18610522 1000.00	1020	105.26- 145.26	129.43
2.737	2.738	-0.001	11544118 1000.00	957	60.22- 100.22	80.29
2.774	2.775	-0.001	7007436 1000.00	988	28.44- 68.44	48.73
2.984	2.986	-0.002	8792163 1000.00	986	42.29- 82.29	61.15
Average of Peak Amounts =				977		

7 Aroclor-1260				CAS #: 11096-82-5		
3.711	3.712	-0.001	17404914 1000.00	1020	80.00- 120.00	100.00(M)
3.873	3.874	-0.001	25934963 1000.00	1100	129.44- 169.44	149.01
4.035	4.037	-0.002	27100050 1000.00	1080	140.44- 180.44	150.76
4.103	4.105	-0.002	15540609 1000.00	1080	69.76- 109.76	89.29
4.246	4.248	-0.002	16036515 1000.00	1110	73.89- 113.89	92.14
Average of Peak Amounts =				1.08e+03		

Data File: /chem/ecdl1a.i/030210.b/058f5801.d
Report Date: 03-Mar-2010 07:38

Page 2

QC Flag Legend

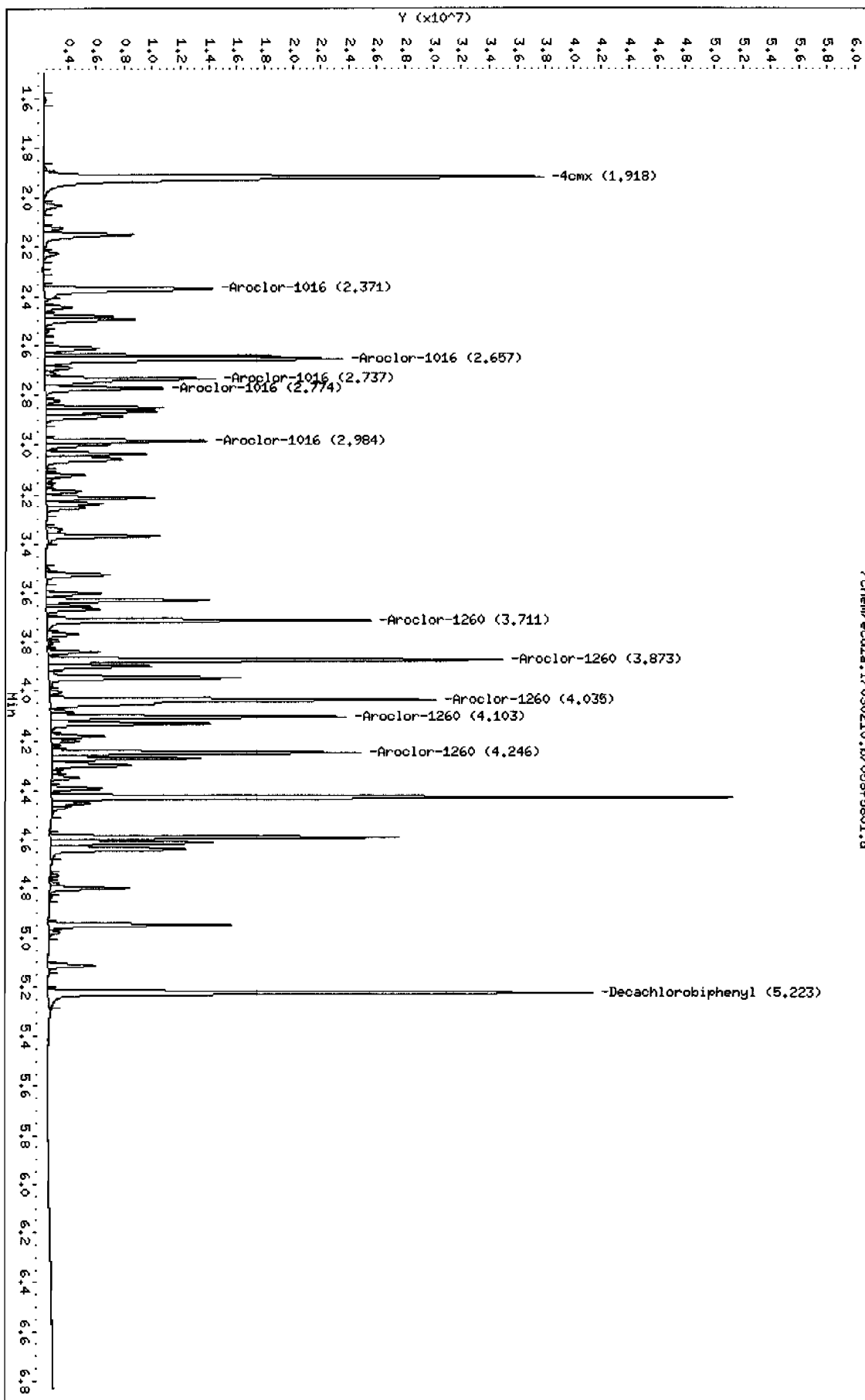
M - Compound response manually integrated.

Data File: /chem/ecdl.a.i/030210.b/058f5801.d
Date: 02-MAR-2010 17:11
Client ID: AR166006
Sample Info: IMR100222-60 06

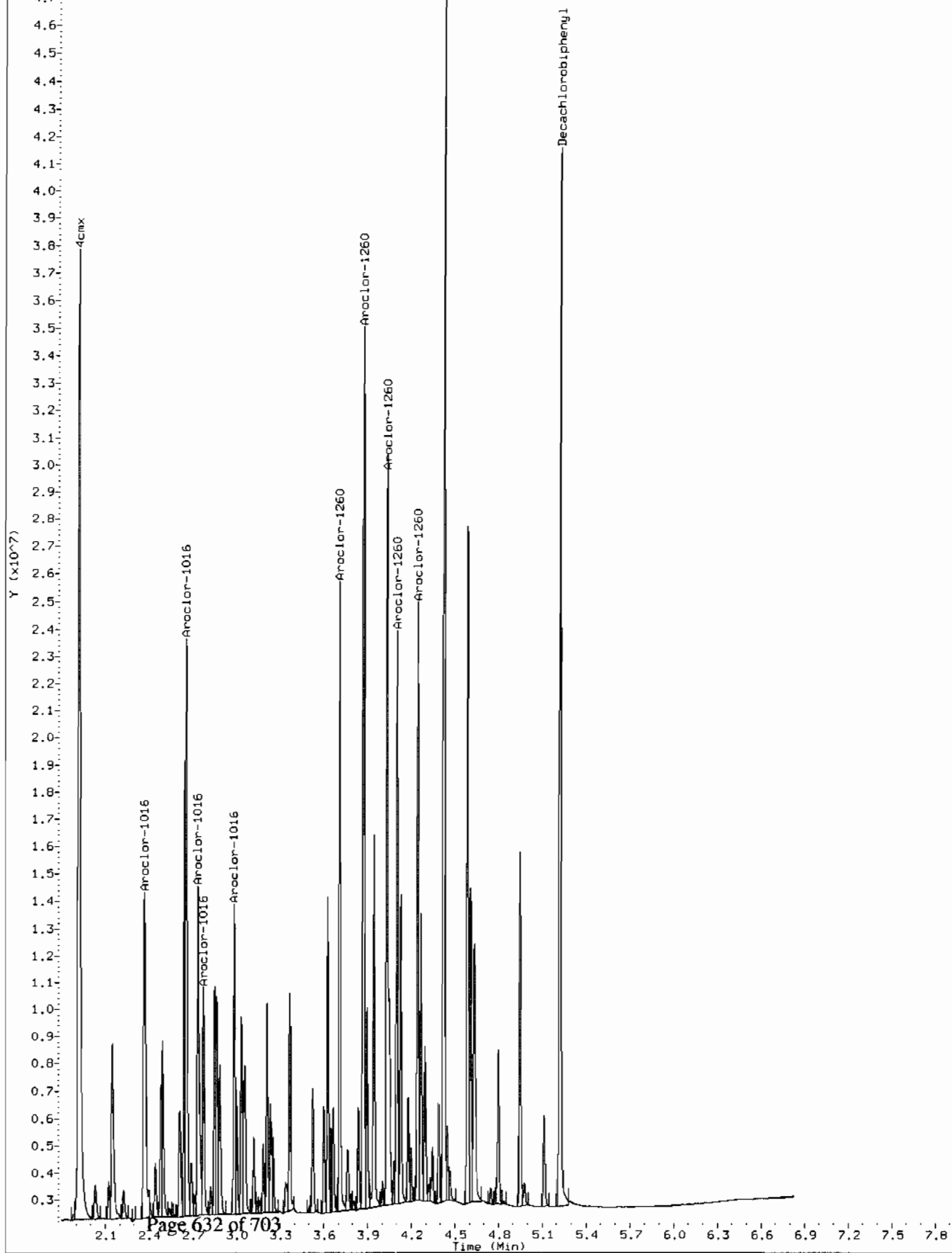
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

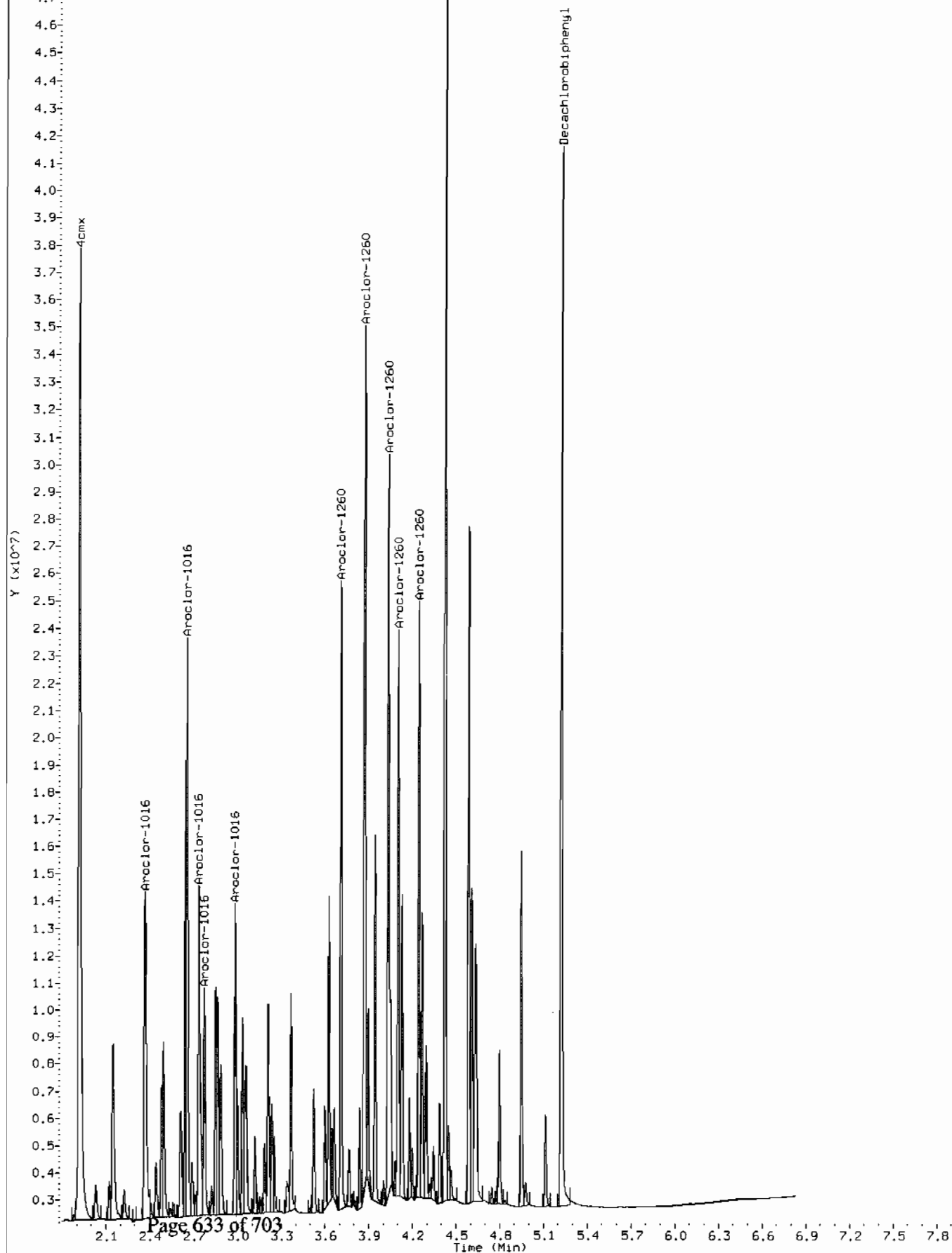
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Comment: Manually Integrated
Data File: /chem/ecdl.a.i/030210.b/058f5801.d
Operator: YS1
Injection Date: 02-MAR-2010 17:11
Instrument: ecdla.i
Client Sample ID: AR166006



Comment: Before manual integration
Data File: /chem/ecdla.i/030210.b/orig-058f5801.d
Operator: YS1
Injection Date: 02-MAR-2010 17:11
Instrument: ecdla.i
Client Sample ID: AR166006



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/058b5801.d

Lab Smp Id: WAR100222-60 06

Client Smp ID: AR166006

Inj Date : 02-MAR-2010 17:11

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 06

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 03-Mar-2010 07:27 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 58

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
2.277	2.277	0.000	27404153 100.000	92.1	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.919	5.920	-0.001	19285578 100.000	91.2	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.171	3.172	-0.001	12488956 1000.00	976	80.00- 120.00	100.00
3.253	3.255	-0.002	8117669 1000.00	910	45.00- 85.00	65.00
3.318	3.318	0.000	5063002 1000.00	936	20.54- 60.54	40.54
3.545	3.545	0.000	6589722 1000.00	953	32.76- 72.76	52.76
3.620	3.621	-0.001	6066610 1000.00	944	28.58- 68.58	48.58
Average of Peak Amounts =				944		

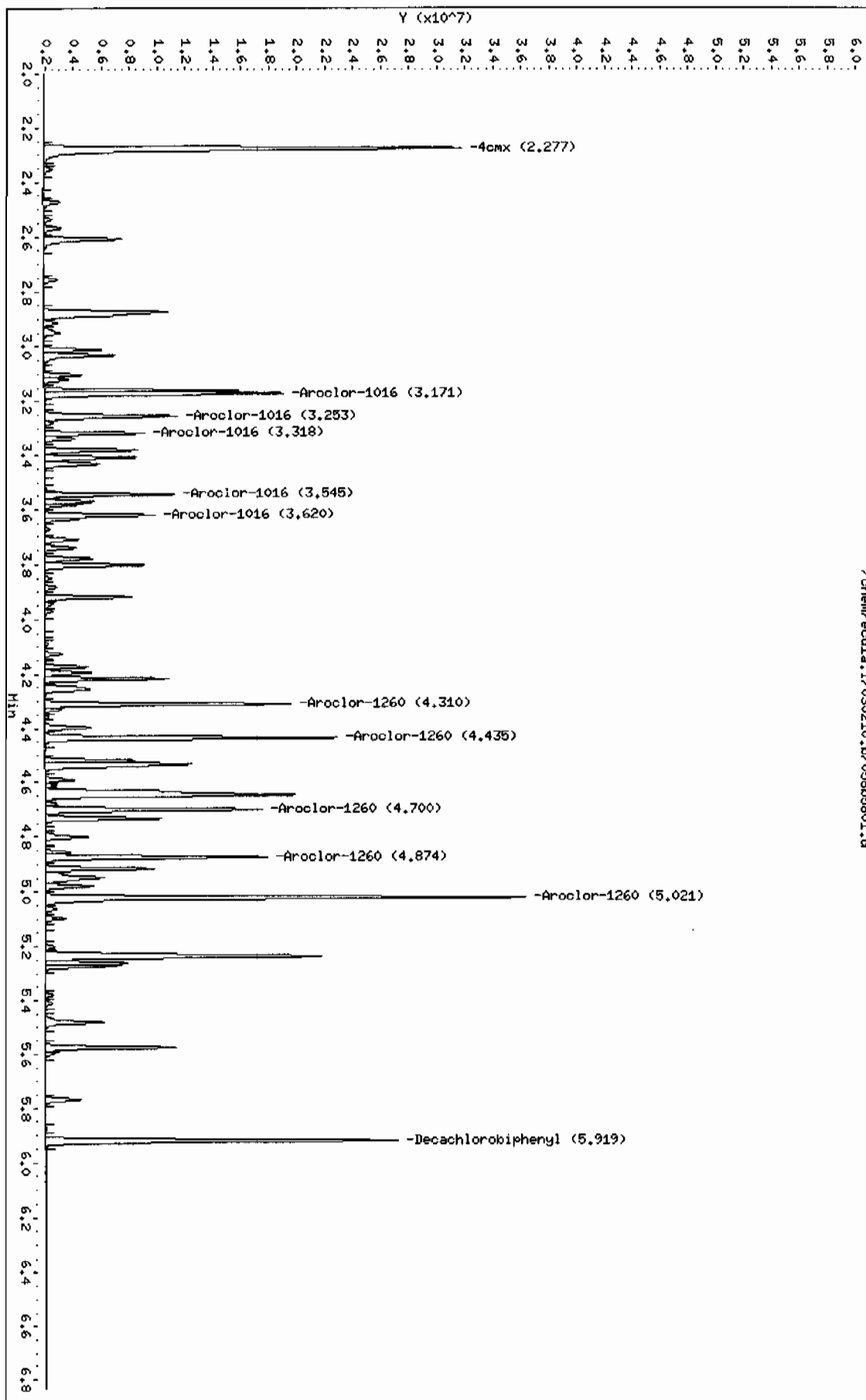
7 Aroclor-1260				CAS #: 11096-82-5		
4.310	4.312	-0.002	12236562 1000.00	927	80.00- 120.00	100.00
4.435	4.436	-0.001	14974310 1000.00	962	102.37- 142.37	122.37
4.700	4.702	-0.002	11264285 1000.00	951	72.05- 112.05	92.05
4.874	4.875	-0.001	11705894 1000.00	959	75.66- 115.66	95.66
5.021	5.023	-0.002	26063319 1000.00	982	193.00- 233.00	213.00
Average of Peak Amounts =				956		

Data File: /chem/ecdl1a.i/030210.b/058b5801.d
Date : 02-MAR-2010 17:11
Client ID: AR166006
Sample Info: IMAR100222-60 06

Column phase: CLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1a.i/030210.b/058b5801.d



Data File: /chem/ecdl1a.i/030210.b/070f7001.d
Report Date: 03-Mar-2010 07:31

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/070f7001.d

Lab Smp Id: WAR100222-60 07

Client Smp ID: AR166007

Inj Date : 02-MAR-2010 19:39

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 07

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d

Als bottle: 70

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
=====			=====		=====	=====	=====	

\$ 11 4cmx					CAS #: 877-09-8			
1.919	1.918	0.001	40807384	100.000	94.8	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.224	5.224	0.000	31039518	100.000	101	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.371	2.371	0.000	14365058	1000.00	934	80.00- 120.00	100.00	
2.658	2.658	0.000	17993777	1000.00	987	105.26- 145.26	125.26	
2.738	2.738	0.000	11524116	1000.00	955	60.22- 100.22	80.22	
2.775	2.775	0.000	6958405	1000.00	980	28.44- 68.44	48.44	
2.985	2.986	-0.001	8948381	1000.00	1000	42.29- 82.29	62.29	
Average of Peak Amounts =					972			

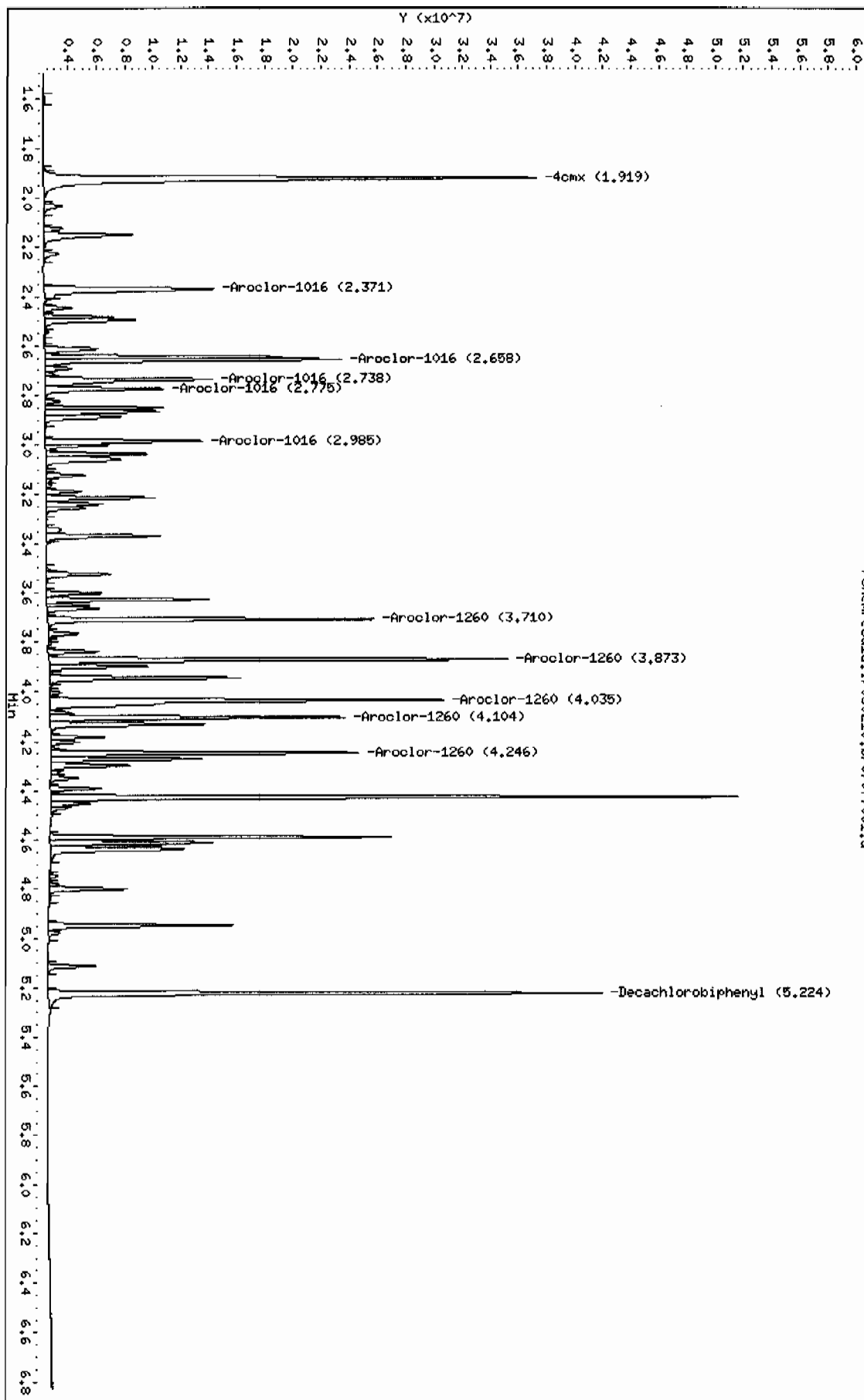
7 Aroclor-1260					CAS #: 11096-82-5			
3.710	3.712	-0.002	17127234	1000.00	1000	80.00- 120.00	100.00	
3.873	3.874	-0.001	25594843	1000.00	1080	129.44- 169.44	149.44	
4.035	4.037	-0.002	27479514	1000.00	1100	140.44- 180.44	160.44	
4.104	4.105	-0.001	15373774	1000.00	1070	69.76- 109.76	89.76	
4.246	4.248	-0.002	16080695	1000.00	1110	73.89- 113.89	93.89	
Average of Peak Amounts =					1.07e+03			

Data File: /chem/ecdl1.i/030210.b/0707001.d
Date: 02-MAR-2010 19:39
Client ID: AR166007
Sample Info: 1MAR100222-60 07

Column phase: CLP1

Instrument: ecdl1.i
Operator: YS1
Column diameter: 0.25

/chem/ecdl1.i/030210.b/0707001.d



Data File: /chem/ecdl1a.i/030210.b/070b7001.d
Report Date: 03-Mar-2010 08:07

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/070b7001.d

Lab Smp Id: WAR100222-60 07

Client Smp ID: AR166007

Inj Date : 02-MAR-2010 19:39

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 07

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 70

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====

\$ 11 4cmx				CAS #: 877-09-8		
2.277	2.277	0.000	27611057 100.000	92.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.920	5.920	0.000	19494807 100.000	92.2	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.171	3.172	-0.001	12049076 1000.00	942	80.00- 120.00	100.00(M)
3.255	3.255	0.000	8117170 1000.00	910	45.23- 85.23	67.37
3.318	3.318	0.000	5086307 1000.00	941	20.98- 60.98	42.21
3.545	3.545	0.000	6352206 1000.00	918	31.01- 71.01	52.72
3.620	3.621	-0.001	5947713 1000.00	926	28.05- 68.05	59.37
Average of Peak Amounts =				927		

7 Aroclor-1260				CAS #: 11096-82-5		
4.310	4.312	-0.002	12281752 1000.00	930	80.00- 120.00	100.00
4.435	4.436	-0.001	15033899 1000.00	966	102.18- 142.18	122.41
4.701	4.702	-0.001	11323653 1000.00	956	71.47- 111.47	92.20
4.875	4.875	0.000	11737521 1000.00	962	74.86- 114.86	95.57
5.022	5.023	-0.001	26263175 1000.00	990	192.08- 232.08	213.84
Average of Peak Amounts =				961		

QC Flag Legend

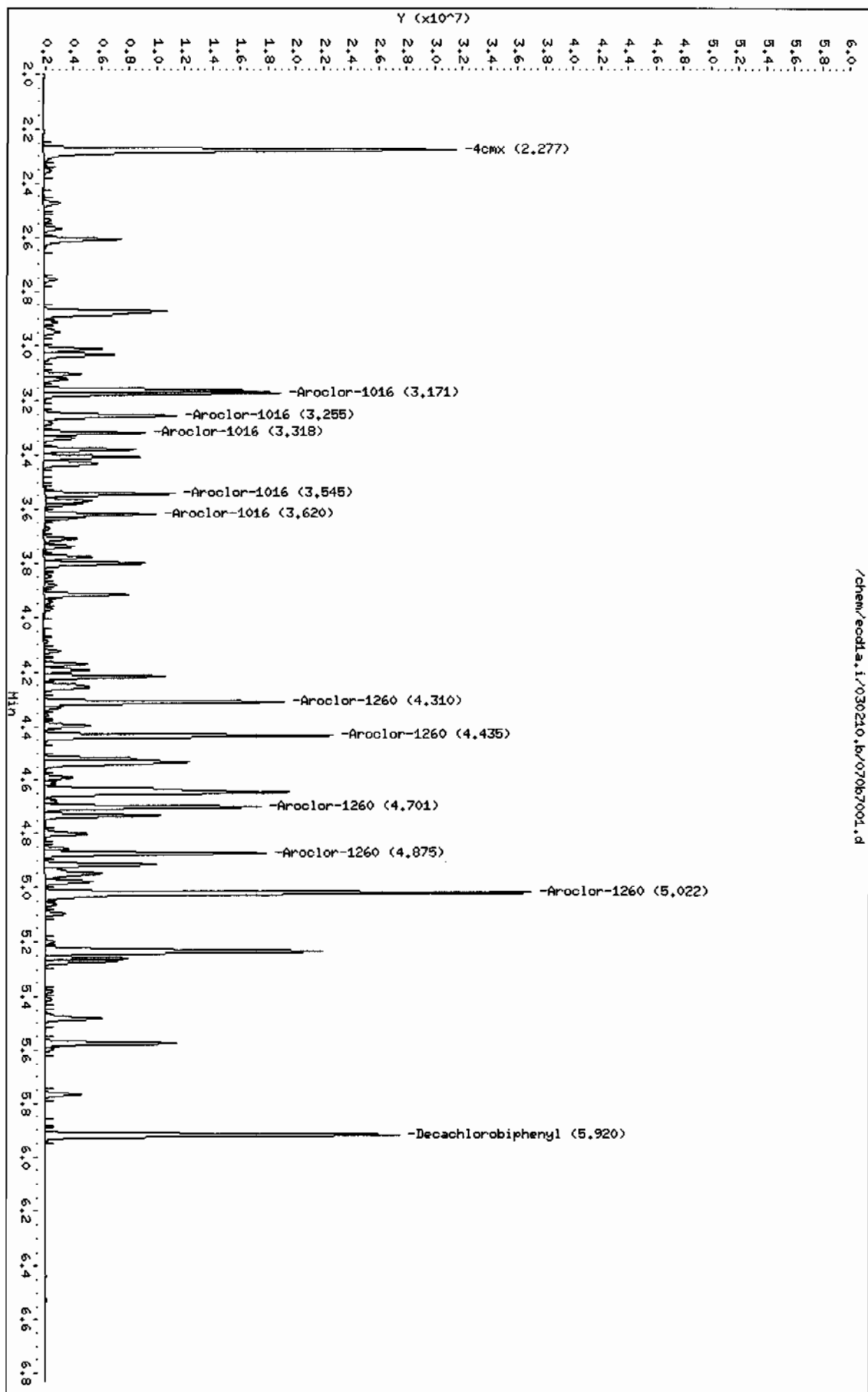
M - Compound response manually integrated.

Data File: /chem/eodla.i/030210.b/07067001.d
Date: 02-MAR-2010 19:39
Client ID: AR166007
Sample Info: IWR100222-60 07

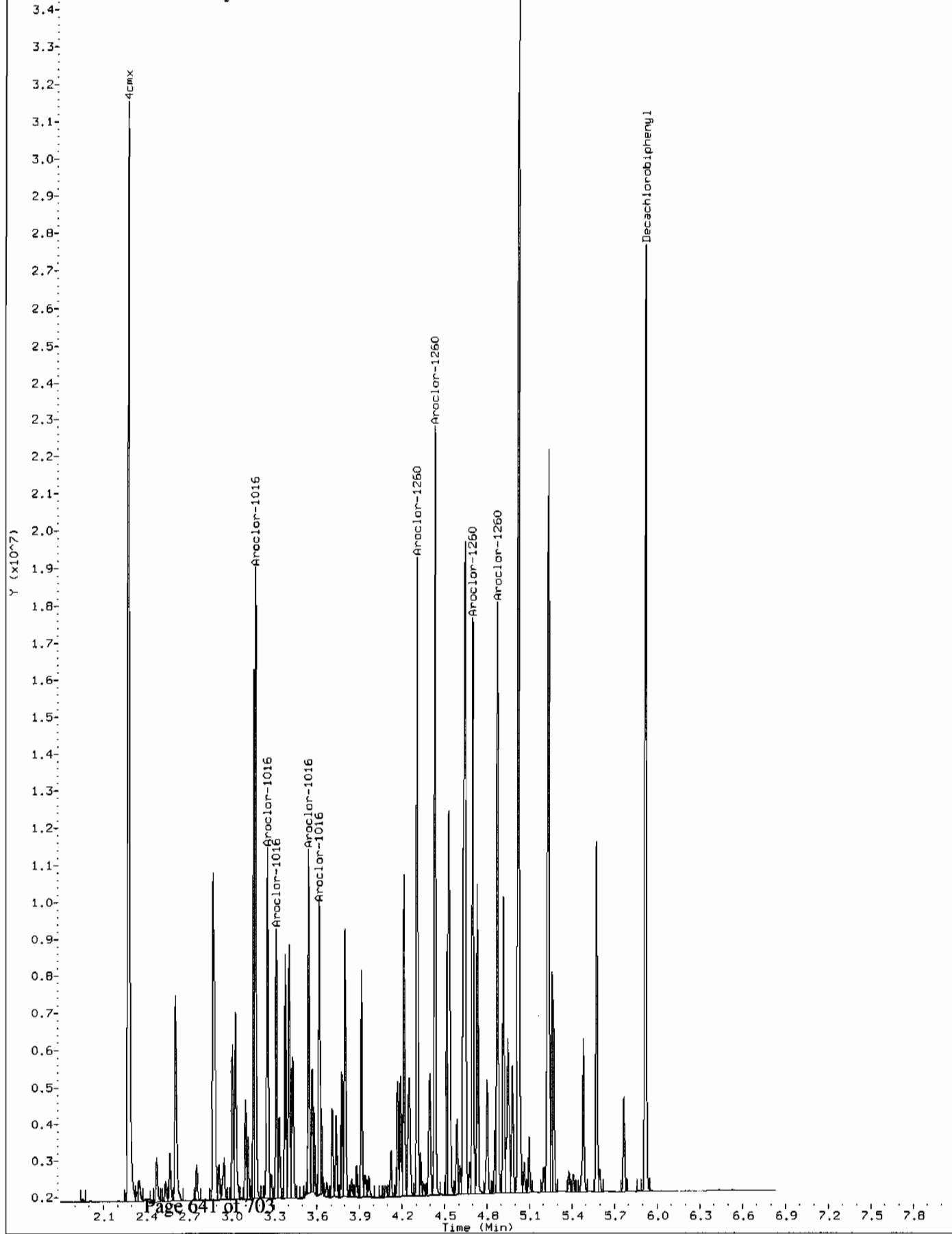
Column phase: CLP2

Instrument: eodla.i
Operator: YSA
Column diameter: 0.25

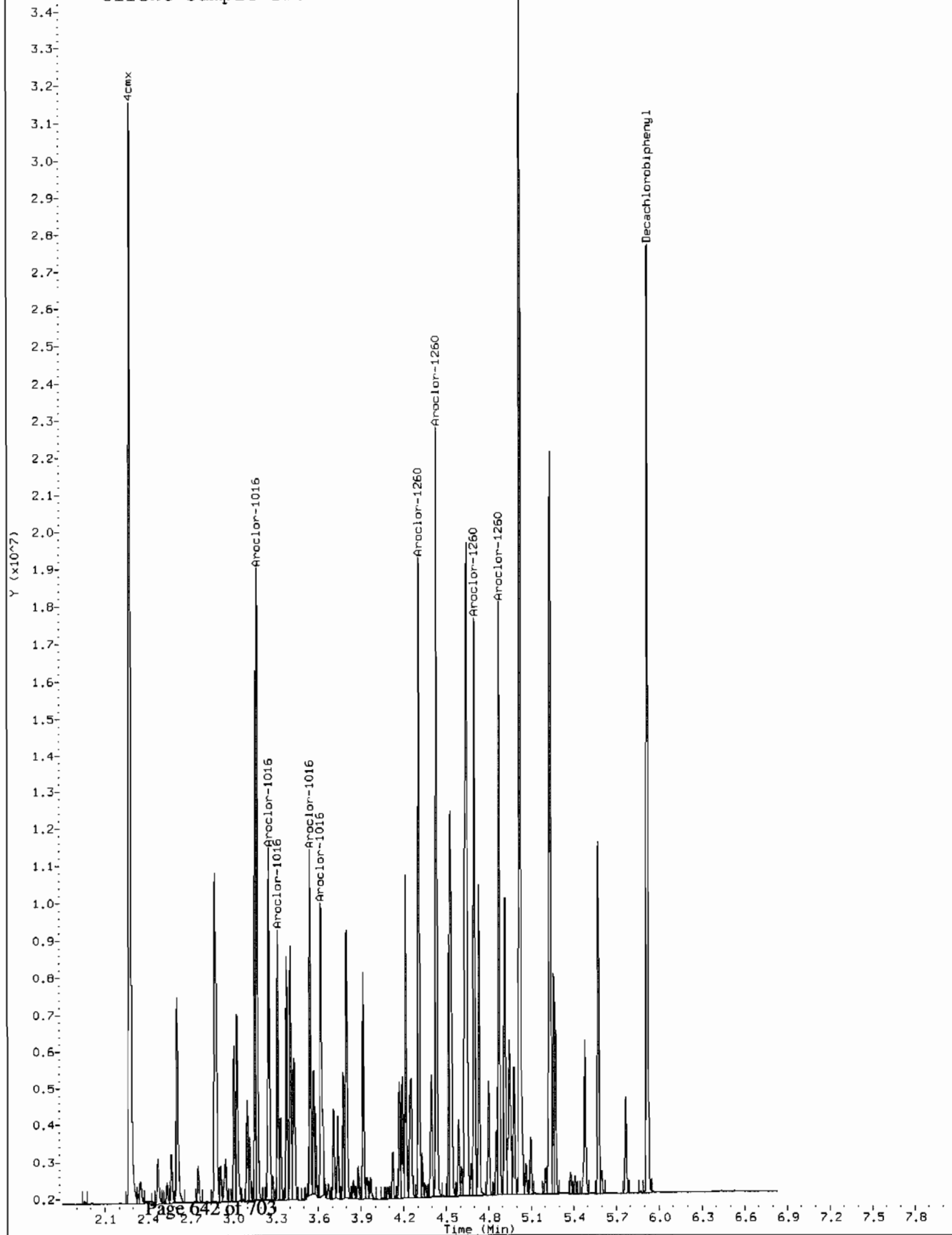
/chem/eodla.i/030210.b/07067001.d



Comment: Manually Integrated
Data File: /chem/ecdl.a.i/030210.b/070b7001.d
Operator: YS1
Injection Date: 02-MAR-2010 19:39
Instrument: ecdla.i
Client Sample ID: AR166007



Comment: Before manual integration
Data File: /chem/ecdl1.i/030210.b/Orig-070b7001.d
Operator: YSl
Injection Date: 02-MAR-2010 19:39
Instrument: ecd1a.i
Client Sample ID: AR166007



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.: 10-2009

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.23			
EPA	LAB	DATE	TIME	S1	DCB	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #	
=====	=====	=====	=====	=====	=====	=====
01 PIBLK01	WAR100219-99	02/22/10	0559	1.92	5.23	
02 ZZZZZ	ZZZZZ	02/22/10	0610	1.92	5.23	
03 ZZZZZ	ZZZZZ	02/22/10	0620	1.92	5.23	
04 DDTANALOGSTD	WAR091219-DD	02/22/10	0631			
05 AR123201	WAR100104-32	02/22/10	0641			
06 AR122101	WAR100104-21	02/22/10	0652			
07 AR126201	WAR100104-62	02/22/10	0703			
08 AR166001	WAR100222-01	02/22/10	0713	1.92	5.23	
09 AR166002	WAR100222-02	02/22/10	0724	1.92	5.23	
10 AR166003	WAR100222-03	02/22/10	0734	1.92	5.23	
11 AR166004	WAR100222-04	02/22/10	0745	1.92	5.23	
12 AR166005	IAR100104-01	02/22/10	0755	1.92	5.23	
13 AR166001	WAR100203-60	02/22/10	0806	1.92	5.23	
14 AR125401	WAR100222-05	02/22/10	0816			
15 AR125402	WAR100222-06	02/22/10	0827			
16 AR125403	WAR100222-07	02/22/10	0837			
17 AR125404	WAR100222-08	02/22/10	0848			
18 AR125405	IAR100219-02	02/22/10	0859			
19 AR125401	WAR100219-54	02/22/10	0909			
20 AR124201	WAR100222-09	02/22/10	0920			
21 AR124202	WAR100222-10	02/22/10	0930			
22 AR124203	WAR100222-11	02/22/10	0941			
23 AR124204	WAR100222-12	02/22/10	0951			
24 AR124205	IAR100219-01	02/22/10	1002			
25 AR124201	WAR100219-42	02/22/10	1012			
26 AR124801	WAR100222-13	02/22/10	1023			
27 AR124802	WAR100222-14	02/22/10	1033			
28 AR124803	WAR100222-15	02/22/10	1044			
29 AR124805	IAR100211-01	02/22/10	1054			
30 AR124804	WAR100222-16	02/22/10	1105			
31 AR124801	WAR091217-48	02/22/10	1116			
32 AR126801	WAR100222-17	02/22/10	1126			

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	AR126802	WAR100222-18	02/22/10	1137		
02	AR126803	WAR100222-19	02/22/10	1147		
03	AR126804	WAR100222-20	02/22/10	1158		
04	AR126805	IAR100104-05	02/22/10	1208		
05	AR126801	WAR100107-68	02/22/10	1219		
06	PIBLK02	WAR100219-99	02/22/10	1229	1.92	5.23
07	ZZZZZ	ZZZZZ	02/22/10	1240	1.92	5.23
08	ZZZZZ	ZZZZZ	02/22/10	1250	1.93	5.23
09	ZZZZZ	ZZZZZ	02/22/10	1301	1.92	5.23
10	ZZZZZ	ZZZZZ	02/22/10	1314	1.92	5.23
11	ZZZZZ	ZZZZZ	02/22/10	1326	1.92	5.23
12	ZZZZZ	ZZZZZ	02/22/10	1339	1.92	5.23
13	ZZZZZ	ZZZZZ	02/22/10	1351	1.92	5.23
14	ZZZZZ	ZZZZZ	02/22/10	1404	1.92	5.23
15	ZZZZZ	ZZZZZ	02/22/10	1417	1.92	5.23
16	ZZZZZ	ZZZZZ	02/22/10	1430	1.92	5.23
17	AR166002	WAR100203-60	02/22/10	1442	1.92	5.23
18	PIBLK03	WAR100219-99	02/22/10	1453	1.92	5.23
19	ZZZZZ	ZZZZZ	02/22/10	1503	1.92	5.23
20	ZZZZZ	ZZZZZ	02/22/10	1516	1.92	5.23
21	ZZZZZ	ZZZZZ	02/22/10	1528	1.92	5.23
22	ZZZZZ	ZZZZZ	02/22/10	1541	1.92	5.23
23	ZZZZZ	ZZZZZ	02/22/10	1554	1.92	5.23
24	ZZZZZ	ZZZZZ	02/22/10	1606	1.92	5.23
25	ZZZZZ	ZZZZZ	02/22/10	1619	1.92	5.23
26	ZZZZZ	ZZZZZ	02/22/10	1632	1.92	5.23
27	ZZZZZ	ZZZZZ	02/22/10	1644	1.92	5.23
28	ZZZZZ	ZZZZZ	02/22/10	1657	1.92	5.23
29	AR166003	WAR100203-60	02/22/10	1710	1.92	5.23
30	PIBLK04	WAR100219-99	02/22/10	1722	1.92	5.23
31	ZZZZZ	ZZZZZ	02/22/10	1735	1.92	5.23
32	ZZZZZ	ZZZZZ	02/22/10	1748	1.92	5.23

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 2 of 2

FORM VIII PEST

OLM03.0

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.29				DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR100219-99	02/22/10	0559	2.29	5.93	
02	ZZZZZ	ZZZZZ	02/22/10	0610	2.29	5.94	
03	ZZZZZ	ZZZZZ	02/22/10	0620	2.29	5.94	
04	DDTANALOGSTD	WAR091219-DD	02/22/10	0631			
05	AR123201	WAR100104-32	02/22/10	0641			
06	AR122101	WAR100104-21	02/22/10	0652			
07	AR126201	WAR100104-62	02/22/10	0703			
08	AR166001	WAR100222-01	02/22/10	0713	2.29	5.94	
09	AR166002	WAR100222-02	02/22/10	0724	2.29	5.94	
10	AR166003	WAR100222-03	02/22/10	0734	2.29	5.94	
11	AR166004	WAR100222-04	02/22/10	0745	2.29	5.94	
12	AR166005	IAR100104-01	02/22/10	0755	2.29	5.94	
13	AR166001	WAR100203-60	02/22/10	0806	2.29	5.94	
14	AR125401	WAR100222-05	02/22/10	0816			
15	AR125402	WAR100222-06	02/22/10	0827			
16	AR125403	WAR100222-07	02/22/10	0837			
17	AR125404	WAR100222-08	02/22/10	0848			
18	AR125405	IAR100219-02	02/22/10	0859			
19	AR125401	WAR100219-54	02/22/10	0909			
20	AR124201	WAR100222-09	02/22/10	0920			
21	AR124202	WAR100222-10	02/22/10	0930			
22	AR124203	WAR100222-11	02/22/10	0941			
23	AR124204	WAR100222-12	02/22/10	0951			
24	AR124205	IAR100219-01	02/22/10	1002			
25	AR124201	WAR100219-42	02/22/10	1012			
26	AR124801	WAR100222-13	02/22/10	1023			
27	AR124802	WAR100222-14	02/22/10	1033			
28	AR124803	WAR100222-15	02/22/10	1044			
29	AR124805	IAR100211-01	02/22/10	1054			
30	AR124804	WAR100222-16	02/22/10	1105			
31	AR124801	WAR091217-48	02/22/10	1116			
32	AR126801	WAR100222-17	02/22/10	1126			

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29		DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR126802	WAR100222-18	02/22/10 1137		
02	AR126803	WAR100222-19	02/22/10 1147		
03	AR126804	WAR100222-20	02/22/10 1158		
04	AR126805	IAR100104-05	02/22/10 1208		
05	AR126801	WAR100107-68	02/22/10 1219		
06	PIBLK02	WAR100219-99	02/22/10 1229	2.29	5.94
07	ZZZZZ	ZZZZZ	02/22/10 1240	2.29	5.94
08	ZZZZZ	ZZZZZ	02/22/10 1250	2.29	5.94
09	ZZZZZ	ZZZZZ	02/22/10 1301	2.29	5.94
10	ZZZZZ	ZZZZZ	02/22/10 1314	2.29	5.94
11	ZZZZZ	ZZZZZ	02/22/10 1326	2.29	5.94
12	ZZZZZ	ZZZZZ	02/22/10 1339	2.29	5.93
13	ZZZZZ	ZZZZZ	02/22/10 1351	2.29	5.93
14	ZZZZZ	ZZZZZ	02/22/10 1404	2.29	5.94
15	ZZZZZ	ZZZZZ	02/22/10 1417	2.29	5.93
16	ZZZZZ	ZZZZZ	02/22/10 1430	2.29	5.93
17	AR166002	WAR100203-60	02/22/10 1442	2.29	5.94
18	PIBLK03	WAR100219-99	02/22/10 1453	2.29	5.94
19	ZZZZZ	ZZZZZ	02/22/10 1503	2.29	5.94
20	ZZZZZ	ZZZZZ	02/22/10 1516	2.29	5.93
21	ZZZZZ	ZZZZZ	02/22/10 1528	2.29	5.93
22	ZZZZZ	ZZZZZ	02/22/10 1541	2.29	5.94
23	ZZZZZ	ZZZZZ	02/22/10 1554	2.29	5.93
24	ZZZZZ	ZZZZZ	02/22/10 1606	2.29	5.93
25	ZZZZZ	ZZZZZ	02/22/10 1619	2.29	5.94
26	ZZZZZ	ZZZZZ	02/22/10 1632	2.29	5.93
27	ZZZZZ	ZZZZZ	02/22/10 1644	2.29	5.93
28	ZZZZZ	ZZZZZ	02/22/10 1657	2.29	5.93
29	AR166003	WAR100203-60	02/22/10 1710	2.29	5.93
30	PIBLK04	WAR100219-99	02/22/10 1722	2.29	5.93
31	ZZZZZ	ZZZZZ	02/22/10 1735	2.29	5.93
32	ZZZZZ	ZZZZZ	02/22/10 1748	2.29	5.94

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.: 10-2009

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.22			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	PIBLK01	WAR100219-99	03/02/10	0538	1.92	5.22
02	AR166001	WAR100222-60	03/02/10	0548	1.92	5.22
03	AR125401	WAR100219-54	03/02/10	0559		
04	AR124201	WAR100219-42	03/02/10	0609		
05	AR124801	WAR100223-48	03/02/10	0620		
06	AR126801	WAR100107-68	03/02/10	0630		
07	AR123201	WAR100104-32	03/02/10	0641		
08	AR122101	WAR100104-21	03/02/10	0652		
09	AR126201	WAR100104-62	03/02/10	0702		
10	DDTANALOGSTD	WAR091219-DD	03/02/10	0713		
11	PIBLK02	WAR100219-99	03/02/10	0723	1.92	5.23
12	ZZZZZ	ZZZZZ	03/02/10	0734	1.92	5.22
13	ZZZZZ	ZZZZZ	03/02/10	0744	1.92	5.23
14	ZZZZZ	ZZZZZ	03/02/10	0755	1.92	5.23
15	ZZZZZ	ZZZZZ	03/02/10	0805	1.92	5.23
16	ZZZZZ	ZZZZZ	03/02/10	0818	1.92	5.22
17	ZZZZZ	ZZZZZ	03/02/10	0830	1.92	5.22
18	ZZZZZ	ZZZZZ	03/02/10	0843	1.92	5.22
19	ZZZZZ	ZZZZZ	03/02/10	0905	1.92	5.23
20	ZZZZZ	ZZZZZ	03/02/10	0918	1.92	5.22
21	ZZZZZ	ZZZZZ	03/02/10	0931	1.92	5.22
22	AR166002	WAR100222-60	03/02/10	0948	1.92	5.23
23	PIBLK03	WAR100219-99	03/02/10	0958	1.92	5.23
24	ZZZZZ	ZZZZZ	03/02/10	1009	1.92	5.23
25	ZZZZZ	ZZZZZ	03/02/10	1022	1.92	5.22
26	ZZZZZ	ZZZZZ	03/02/10	1034	1.92	5.22
27	ZZZZZ	ZZZZZ	03/02/10	1100	1.92	5.22
28	AR166003	WAR100222-60	03/02/10	1113	1.92	5.22
29	POBLK04	WAR100219-99	03/02/10	1124	1.92	5.23
30	ZZZZZ	ZZZZZ	03/02/10	1134	1.92	5.22
31	ZZZZZ	ZZZZZ	03/02/10	1145	1.92	5.23
32	ZZZZZ	ZZZZZ	03/02/10	1155	1.92	5.22

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

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.: 10-2009

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.22			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	ZZZZZ	03/02/10	1208	1.92		5.22
02	ZZZZZ	03/02/10	1220	1.92		5.22
03	ZZZZZ	03/02/10	1233	1.92		5.22
04	ZZZZZ	03/02/10	1246	1.92		5.22
05	ZZZZZ	03/02/10	1258	1.92		5.22
06	ZZZZZ	03/02/10	1311	1.92		5.22
07	ZZZZZ	03/02/10	1324	1.92		5.22
08	AR166004	WAR100222-60	1336	1.92		5.22
09	PIBLK05	WAR100219-99	1347	1.92		5.22
10	PBLK01	1202055920	1358	1.92		5.23
11	PBLK01LCS	1202055921	1408	1.92		5.23
12	ZZZZZ	03/02/10	1419	1.92		5.22
13	ZZZZZ	03/02/10	1431	1.92		5.22
14	ZZZZZ	03/02/10	1444	1.92		5.22
15	ZZZZZ	03/02/10	1456	1.92		5.22
16	ZZZZZ	03/02/10	1509	1.92		5.22
17	ZZZZZ	03/02/10	1522	1.92		5.22
18	ZZZZZ	03/02/10	1534	1.92		5.22
19	ZZZZZ	03/02/10	1547	1.92		5.22
20	AR166005	WAR100222-60	1600	1.92		5.22
21	PIBLK06	WAR100219-99	1610	1.92		5.22
22	ZZZZZ	03/02/10	1621	1.92		5.22
23	ZZZZZ	03/02/10	1633	1.92		5.22
24	ZZZZZ	03/02/10	1646	1.92		5.22
25	ZZZZZ	03/02/10	1659	1.92		5.22
26	AR166006	WAR100222-60	1711	1.92		5.22
27	PIBLK07	WAR100219-99	1722	1.92		5.22
28	RE15-10-7896	247897001	1732	1.92		5.22
29	RE15-10-7896MS	1202055922	1745	1.92		5.22
30	RE15-10-7896MSD	1202055923	1758	1.92		5.22
31	RE15-10-7894	247897002	1810	1.92		5.22
32	RE15-10-7900	247897003	1823	1.92		5.22

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

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.: 10-2009

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.92				DCB: 5.22			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
							#
01	RE15-10-7898	247897004	03/02/10	1835	1.92		5.22
02	RE15-10-7897	247897005	03/02/10	1848	1.92		5.22
03	RE15-10-7895	247897006	03/02/10	1901	1.92		5.22
04	RE15-10-7899	247897007	03/02/10	1913	1.92		5.22
05	RE15-10-7893	247897008	03/02/10	1926	1.92		5.22
06	AR166007	WAR100222-60	03/02/10	1939	1.92		5.22
07	PIBLK08	WAR100219-99	03/02/10	1949	1.92		5.23
08							
09							
10							
11							
12							
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26							
27							
28							
29							
30							
31							
32							

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.28			DCB: 5.92			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	PIBLK01	WAR100219-99	03/02/10	0538	2.27	5.92
02	AR166001	WAR100222-60	03/02/10	0548	2.28	5.92
03	AR125401	WAR100219-54	03/02/10	0559		
04	AR124201	WAR100219-42	03/02/10	0609		
05	AR124801	WAR100223-48	03/02/10	0620		
06	AR126801	WAR100107-68	03/02/10	0630		
07	AR123201	WAR100104-32	03/02/10	0641		
08	AR122101	WAR100104-21	03/02/10	0652		
09	AR126201	WAR100104-62	03/02/10	0702		
10	DDTANALOGSTD	WAR091219-DD	03/02/10	0713		
11	PIBLK02	WAR100219-99	03/02/10	0723	2.28	5.92
12	ZZZZZ	ZZZZZ	03/02/10	0734	2.28	5.92
13	ZZZZZ	ZZZZZ	03/02/10	0744	2.28	5.92
14	ZZZZZ	ZZZZZ	03/02/10	0755	2.28	5.92
15	ZZZZZ	ZZZZZ	03/02/10	0805	2.28	5.92
16	ZZZZZ	ZZZZZ	03/02/10	0818	2.28	5.92
17	ZZZZZ	ZZZZZ	03/02/10	0830		5.24*
18	ZZZZZ	ZZZZZ	03/02/10	0843	2.28	5.92
19	ZZZZZ	ZZZZZ	03/02/10	0905	2.28	5.92
20	ZZZZZ	ZZZZZ	03/02/10	0918	2.28	5.92
21	ZZZZZ	ZZZZZ	03/02/10	0931	2.27	5.92
22	AR166002	WAR100222-60	03/02/10	0948	2.27	5.92
23	PIBLK03	WAR100219-99	03/02/10	0958	2.28	5.92
24	ZZZZZ	ZZZZZ	03/02/10	1009	2.28	5.92
25	ZZZZZ	ZZZZZ	03/02/10	1022	2.28	5.92
26	ZZZZZ	ZZZZZ	03/02/10	1034	2.28	5.92
27	ZZZZZ	ZZZZZ	03/02/10	1100	2.28	5.92
28	AR166003	WAR100222-60	03/02/10	1113	2.28	5.92
29	PIBLK04	WAR100219-99	03/02/10	1124	2.28	5.92
30	ZZZZZ	ZZZZZ	03/02/10	1134	2.28	5.92
31	ZZZZZ	ZZZZZ	03/02/10	1145	2.28	5.92
32	ZZZZZ	ZZZZZ	03/02/10	1155	2.28	5.92

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

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.: 10-2009

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.28			DCB: 5.92			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	ZZZZZ	ZZZZZ	03/02/10	1208	2.28	5.92
02	ZZZZZ	ZZZZZ	03/02/10	1220	2.28	5.92
03	ZZZZZ	ZZZZZ	03/02/10	1233	2.28	5.92
04	ZZZZZ	ZZZZZ	03/02/10	1246	2.28	5.92
05	ZZZZZ	ZZZZZ	03/02/10	1258	2.28	5.92
06	ZZZZZ	ZZZZZ	03/02/10	1311	2.28	5.92
07	ZZZZZ	ZZZZZ	03/02/10	1324	2.28	5.92
08	AR166004	WAR100222-60	03/02/10	1336	2.28	5.92
09	PIBLK05	WAR100219-99	03/02/10	1347	2.28	5.92
10	PBLK01	1202055920	03/02/10	1358	2.28	5.92
11	PBLK01LCS	1202055921	03/02/10	1408	2.28	5.92
12	ZZZZZ	ZZZZZ	03/02/10	1419	2.28	5.92
13	ZZZZZ	ZZZZZ	03/02/10	1431	2.28	5.92
14	ZZZZZ	ZZZZZ	03/02/10	1444	2.28	5.92
15	ZZZZZ	ZZZZZ	03/02/10	1456	2.28	5.92
16	ZZZZZ	ZZZZZ	03/02/10	1509	2.28	5.92
17	ZZZZZ	ZZZZZ	03/02/10	1522	2.28	5.92
18	ZZZZZ	ZZZZZ	03/02/10	1534	2.28	5.92
19	ZZZZZ	ZZZZZ	03/02/10	1547	2.28	5.92
20	AR166005	WAR100222-60	03/02/10	1600	2.28	5.92
21	PIBLK06	WAR100219-99	03/02/10	1610	2.28	5.92
22	ZZZZZ	ZZZZZ	03/02/10	1621	2.28	5.92
23	ZZZZZ	ZZZZZ	03/02/10	1633	2.28	5.92
24	ZZZZZ	ZZZZZ	03/02/10	1646	2.28	5.92
25	ZZZZZ	ZZZZZ	03/02/10	1659	2.28	5.92
26	AR166006	WAR100222-60	03/02/10	1711	2.28	5.92
27	PIBLK07	WAR100219-99	03/02/10	1722	2.28	5.92
28	RE15-10-7896	247897001	03/02/10	1732	2.28	5.92
29	RE15-10-7896MS	1202055922	03/02/10	1745	2.28	5.92
30	RE15-10-7896MSD	1202055923	03/02/10	1758	2.28	5.92
31	RE15-10-7894	247897002	03/02/10	1810	2.28	5.92
32	RE15-10-7900	247897003	03/02/10	1823	2.28	5.92

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 2 of 3

FORM VIII PEST

OLM03.0

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2009

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.28			DCB: 5.92			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	RE15-10-7898	247897004	03/02/10	1835	2.28	5.92
02	RE15-10-7897	247897005	03/02/10	1848	2.28	5.92
03	RE15-10-7895	247897006	03/02/10	1901	2.28	5.92
04	RE15-10-7899	247897007	03/02/10	1913	2.28	5.92
05	RE15-10-7893	247897008	03/02/10	1926	2.28	5.92
06	AR166007	WAR100222-60	03/02/10	1939	2.28	5.92
07	PIBLK08	WAR100219-99	03/02/10	1949	2.28	5.92
08						
09						
10						
11						
12						
13						
14						
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21						
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23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

Page 1 of 1

SDG Number: 10-2009

Client ID: LCS for batch 958614

Lab Sample ID: 1202055921

Data File: 043f4301.d

Data File: 043b4301.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 02-MAR-10 14:08

Analyzed: 02-MAR-10 14:08

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							3.07
Column 1	1	2.37	2.34 - 2.4	23.2		ug/kg	
	2	2.66	2.63 - 2.69	24.8		ug/kg	
	3	2.74	2.71 - 2.77	24.1		ug/kg	
	4	2.78	2.75 - 2.81	25		ug/kg	
	5	2.99	2.96 - 3.02	25.6		ug/kg	
					24.5		
Column 2	1	3.17	3.14 - 3.2	24.9		ug/kg	
	2	3.26	3.23 - 3.29	23.2		ug/kg	
	3	3.32	3.29 - 3.35	22.1		ug/kg	
	4	3.55	3.52 - 3.58	24.1		ug/kg	
	5	3.62	3.59 - 3.65	24.6		ug/kg	
					23.8		
Aroclor-1260							14
Column 1	1	3.71	3.68 - 3.74	28.8		ug/kg	
	2	3.88	3.84 - 3.9	30.9		ug/kg	
	3	4.04	4.01 - 4.07	31.5		ug/kg	
	4	4.11	4.08 - 4.14	30.7		ug/kg	
	5	4.25	4.22 - 4.28	32		ug/kg	
					30.8		
Column 2	1	4.31	4.28 - 4.34	25.7		ug/kg	
	2	4.44	4.41 - 4.47	26.7		ug/kg	
	3	4.7	4.67 - 4.73	26.5		ug/kg	
	4	4.88	4.85 - 4.91	26.8		ug/kg	
	5	5.02	4.99 - 5.05	27.9		ug/kg	
					26.7		

Identification Summary

Page 1 of 1

SDG Number: 10-2009

Client ID: RE15-10-7894

Lab Sample ID: 247897002

Data File: 063f6301.d

Data File: 063b6301.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 02-MAR-10 18:10

Analyzed: 02-MAR-10 18:10

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							27.3
Column 1	1	3.21	3.19 - 3.25	1.4		ug/kg	
	2	3.37	3.34 - 3.4	1.63		ug/kg	
	3	3.6	3.58 - 3.64	1.79		ug/kg	
	4	3.76	3.74 - 3.8	3.62		ug/kg	
	5	3.87	3.85 - 3.91	2.44		ug/kg	
					2.18		
Column 2	1	3.38	3.35 - 3.41	2.14		ug/kg	
	2	3.8	3.77 - 3.83	1.26		ug/kg	
	3	3.92	3.89 - 3.95	1.64		ug/kg	
	4	4.19	4.17 - 4.23	1.6		ug/kg	
	5	4.33	4.3 - 4.36	1.63		ug/kg	
					1.65		

Identification Summary

Page 1 of 1

SDG Number: 10-2009
 Lab Sample ID: 1202055922

Client ID: RE15-10-7896MS

Data File: 061f6101.d
 Inst: ECD1A.I_1
 Column: CLP1
 Analyzed: 02-MAR-10 17:45

Data File: 061b6101.d
 Inst: ECD1A.I_2
 Column: CLP2
 Analyzed: 02-MAR-10 17:45

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							4.15
Column 1	1	2.37	2.34 - 2.4	18		ug/kg	
	2	2.66	2.63 - 2.69	20.2		ug/kg	
	3	2.74	2.71 - 2.77	18.1		ug/kg	
	4	2.77	2.75 - 2.81	16.2		ug/kg	
	5	2.98	2.96 - 3.02	20.3		ug/kg	
					18.6		
Column 2	1	3.17	3.14 - 3.2	19.5		ug/kg	
	2	3.25	3.23 - 3.29	18.8		ug/kg	
	3	3.32	3.29 - 3.35	19.1		ug/kg	
	4	3.54	3.52 - 3.58	20.5		ug/kg	
	5	3.62	3.59 - 3.65	18.8		ug/kg	
					19.4		
Aroclor-1260							10.7
Column 1	1	3.71	3.68 - 3.74	25.7		ug/kg	
	2	3.87	3.84 - 3.9	25.8		ug/kg	
	3	4.04	4.01 - 4.07	26.3		ug/kg	
	4	4.1	4.08 - 4.14	25.8		ug/kg	
	5	4.25	4.22 - 4.28	27.1		ug/kg	
					26.1		
Column 2	1	4.31	4.28 - 4.34	22.3		ug/kg	
	2	4.43	4.41 - 4.47	23.4		ug/kg	
	3	4.7	4.67 - 4.73	23.5		ug/kg	
	4	4.87	4.85 - 4.91	23.5		ug/kg	
	5	5.02	4.99 - 5.05	24.6		ug/kg	
					23.5		

Identification Summary

Page 1 of 1

SDG Number: 10-2009

Client ID: RE15-10-7896MSD

Lab Sample ID: 1202055923

Data File: 062f6201.d

Data File: 062b6201.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 02-MAR-10 17:58

Analyzed: 02-MAR-10 17:58

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.36
<i>Column 1</i>	1	2.37	2.34 - 2.4	19.1		ug/kg	
	2	2.66	2.63 - 2.69	20.1		ug/kg	
	3	2.74	2.71 - 2.77	18.7		ug/kg	
	4	2.77	2.75 - 2.81	17		ug/kg	
	5	2.98	2.96 - 3.02	20.6		ug/kg	
					19.1		
<i>Column 2</i>	1	3.17	3.14 - 3.2	19.4		ug/kg	
	2	3.25	3.23 - 3.29	19.1		ug/kg	
	3	3.32	3.29 - 3.35	19		ug/kg	
	4	3.54	3.52 - 3.58	20.3		ug/kg	
	5	3.62	3.59 - 3.65	18.9		ug/kg	
					19.4		
Aroclor-1260							8.07
<i>Column 1</i>	1	3.71	3.68 - 3.74	25.9		ug/kg	
	2	3.87	3.84 - 3.9	25		ug/kg	
	3	4.03	4.01 - 4.07	26.1		ug/kg	
	4	4.1	4.08 - 4.14	25.4		ug/kg	
	5	4.25	4.22 - 4.28	27.5		ug/kg	
					26		
<i>Column 2</i>	1	4.31	4.28 - 4.34	22.8		ug/kg	
	2	4.43	4.41 - 4.47	23.6		ug/kg	
	3	4.7	4.67 - 4.73	24.1		ug/kg	
	4	4.87	4.85 - 4.91	24.2		ug/kg	
	5	5.02	4.99 - 5.05	25.3		ug/kg	
					24		

Identification Summary

Page 1 of 1

SDG Number: 10-2009

Client ID: RE15-10-7897

Lab Sample ID: 247897005

Data File: 066f6601.d

Data File: 066b6601.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 02-MAR-10 18:48

Analyzed: 02-MAR-10 18:48

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							39.5
Column 1	1	3.21	3.19 - 3.25	7.34		ug/kg	
	2	3.37	3.34 - 3.4	8.75		ug/kg	
	3	3.6	3.58 - 3.64	8.62		ug/kg	
	4	3.77	3.74 - 3.8	7.4		ug/kg	
	5	3.87	3.85 - 3.91	14.3		ug/kg	
					9.28		
Column 2	1	3.38	3.35 - 3.41	3.71		ug/kg	
	2	3.8	3.77 - 3.83	8.21		ug/kg	
	3	3.92	3.89 - 3.95	8.23		ug/kg	
	4	4.2	4.17 - 4.23	5.46		ug/kg	
	5	4.33	4.3 - 4.36	5.5		ug/kg	
					6.22		
Aroclor-1260							30.6
Column 1	1	3.71	3.68 - 3.74	9.29		ug/kg	
	2	3.87	3.84 - 3.9	8.64		ug/kg	
	3	4.04	4.01 - 4.07	10.8		ug/kg	
	4	4.1	4.08 - 4.14	3.97		ug/kg	
	5	4.25	4.22 - 4.28	3.53		ug/kg	
					7.25		
Column 2	1	4.31	4.28 - 4.34	8.21		ug/kg	
	2	4.44	4.41 - 4.47	7.06		ug/kg	
	3	4.7	4.67 - 4.73	4.62		ug/kg	
	4	4.88	4.85 - 4.91	3.52		ug/kg	
	5	5.02	4.99 - 5.05	3.18		ug/kg	
					5.32		

Identification Summary

Page 1 of 1

SDG Number: 10-2009

Client ID: RE15-10-7898

Lab Sample ID: 247897004

Data File: 065f6501.d

Data File: 065b6501.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 02-MAR-10 18:35

Analyzed: 02-MAR-10 18:35

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							49.2
Column 1	1	3.21	3.19 - 3.25	2.55		ug/kg	
	2	3.37	3.34 - 3.4	2.14		ug/kg	
	3	3.6	3.58 - 3.64	3.04		ug/kg	
	4	3.76	3.74 - 3.8	4.81		ug/kg	
	5	3.87	3.85 - 3.91	5.07		ug/kg	
					3.52		
Column 2	1	3.38	3.35 - 3.41	1.48		ug/kg	
	2	3.8	3.77 - 3.83	2.59		ug/kg	
	3	3.92	3.89 - 3.95	2.89		ug/kg	
	4	4.19	4.17 - 4.23	1.99		ug/kg	
	5	4.33	4.3 - 4.36	1.7		ug/kg	
					2.13		
Aroclor-1260							20.3
Column 1	1	3.71	3.68 - 3.74	4.67		ug/kg	
	2	3.87	3.84 - 3.9	3.06		ug/kg	
	3	4.03	4.01 - 4.07	2.37		ug/kg	
	4	4.1	4.08 - 4.14	1.17		ug/kg	
	5	4.25	4.22 - 4.28	1.61		ug/kg	
					2.58		
Column 2	1	4.31	4.28 - 4.34	2.64		ug/kg	
	2	4.43	4.41 - 4.47	2.46		ug/kg	
	3	4.7	4.67 - 4.73	1.94		ug/kg	
	4	4.87	4.85 - 4.91	1.73		ug/kg	
	5	5.02	4.99 - 5.05	1.74		ug/kg	
					2.1		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2009

Matrix: SOIL

Lab Sample ID: 1202055920

Client Sample: QC for batch 958614

Client: LANL010

Project: QC

Client ID: MB for batch 958614

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 958628

Inst: ECD1A.I

Dilution: 1

Run Date: 03/02/2010 13:58

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 03/01/2010 11:47

Aliquot: 30 g

Final Volume: 1 mL

Data File: 042f4201-1.d

Column: 1 CLP1

Level: LOW

042b4201-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecdla.i/030210.b/042f4201-1.d
Report Date: 02-Mar-2010 14:20

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/042f4201-1.d
Lab Smp Id: 1202055920 Client Smp ID: PBLK01
Inj Date : 02-MAR-2010 13:58
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202055920|1|
Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 13:52 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 42 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

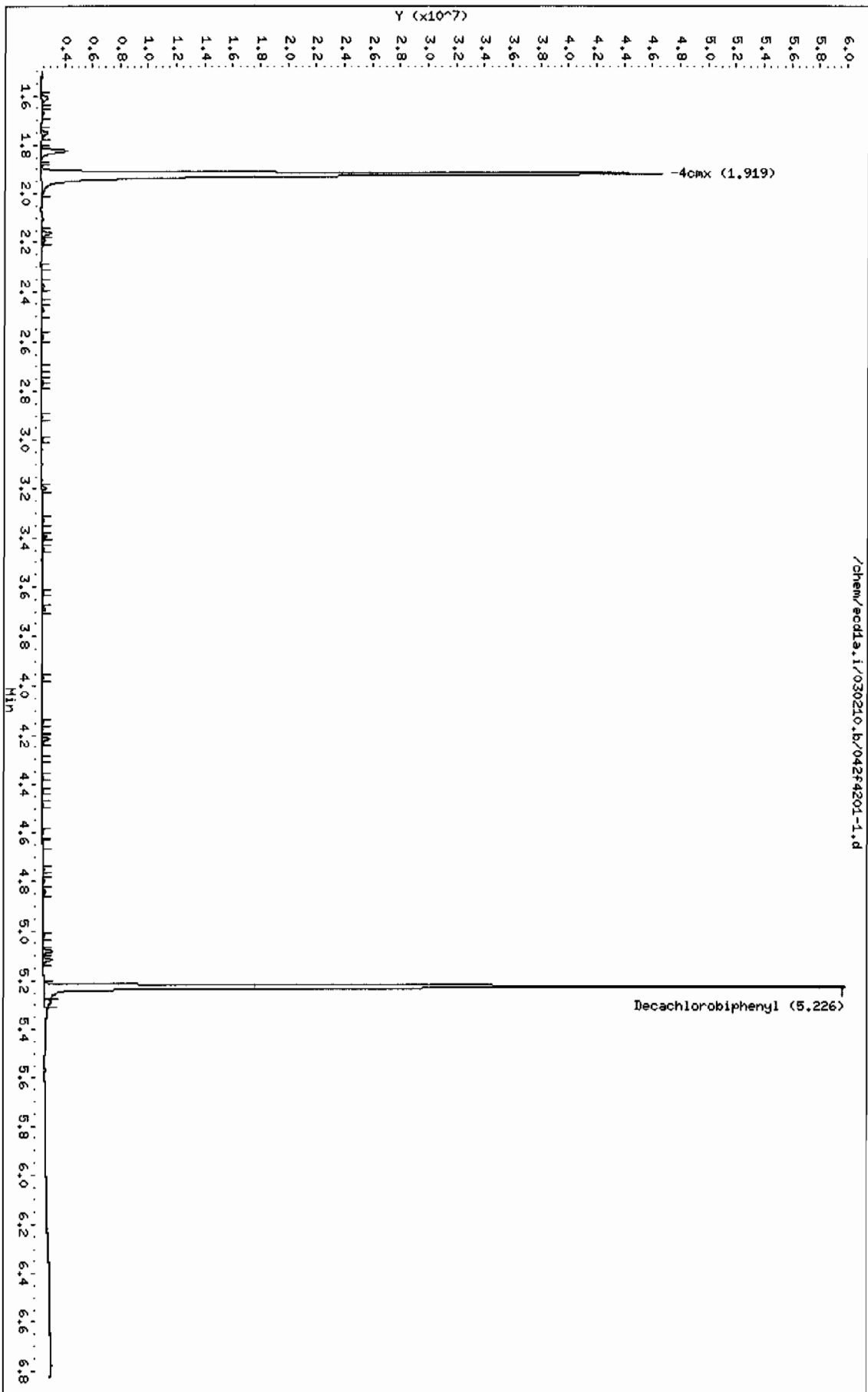
ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
1.919	1.918	0.001	50140222 116.433	3.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.226	5.224	0.002	45916140 149.423	5.0	80.00- 120.00	100.00

Data File: /chem/ecdda.i/030210.b/042f4201-1.d
Date : 02-MAR-2010 13:58
Client ID: PLK01
Sample Info: 112020592011
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdla.i/030210.b/042b4201-1.d
Report Date: 02-Mar-2010 14:20

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/042b4201-1.d
Lab Smp Id: 1202055920 Client Smp ID: PBLK01
Inj Date : 02-MAR-2010 13:58
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202055920|1|
Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/030210.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 13:52 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 42 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

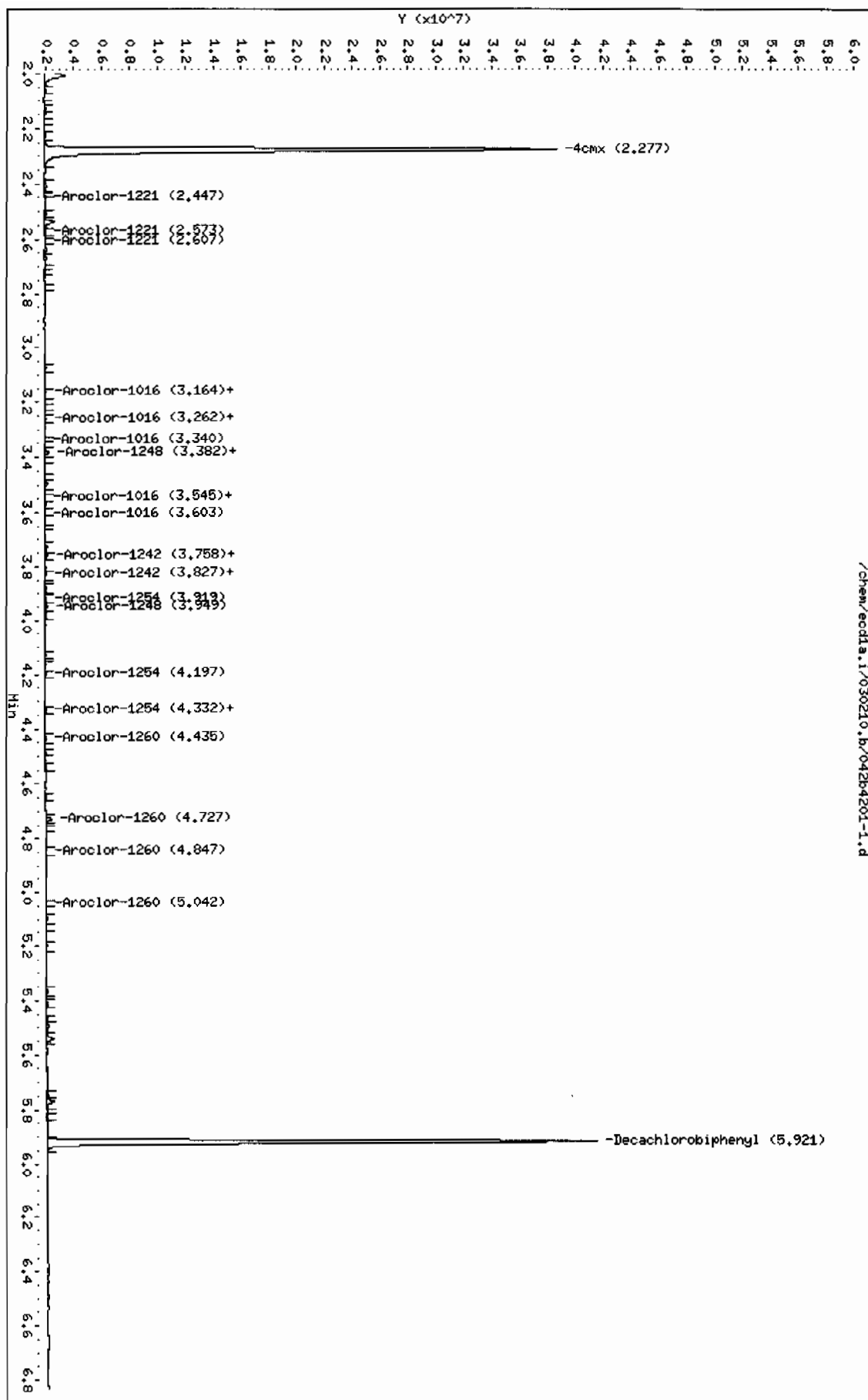
CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.277	2.277	0.000	33863893	113.868	3.8 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.921	5.920	0.001	29032656	137.271	4.6 80.00- 120.00	100.00	

Data File: /chem/ecda.i/030210.b/042b4201-1.d
Date : 02-MAR-2010 13:58
Client ID: PBLK01
Sample Info: 1120205592011
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecda.i
Operator: YS1
Column diameter: 0.25

/chem/ecda.i/030210.b/042b4201-1.d



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2009

Matrix: SOIL

Lab Sample ID: 1202055921

Client Sample: QC for batch 958614

Client: LANL010

Project: QC

Client ID: LCS for batch 958614

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 958628

Inst: ECD1A.I

Dilution: 1

Run Date: 03/02/2010 14:08

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 03/01/2010 11:47

Aliquot: 30 g

Final Volume: 1 mL

Data File: 043f4301-1.d

Column: 1 CLP1

Level: LOW

043b4301-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		24.5	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		30.8	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/043f4301-1.d
Lab Smp Id: 1202055921 Client Smp ID: PBLK01LCS
Inj Date : 02-MAR-2010 14:08
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202055921|1|
Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 13:52 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 43 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
=====						
\$ 11 4cmx CAS #: 877-09-8						
1.919	1.918	0.001	58578578 136.028	4.5	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.225	5.224	0.001	46993328 152.929	5.1	80.00- 120.00	100.00

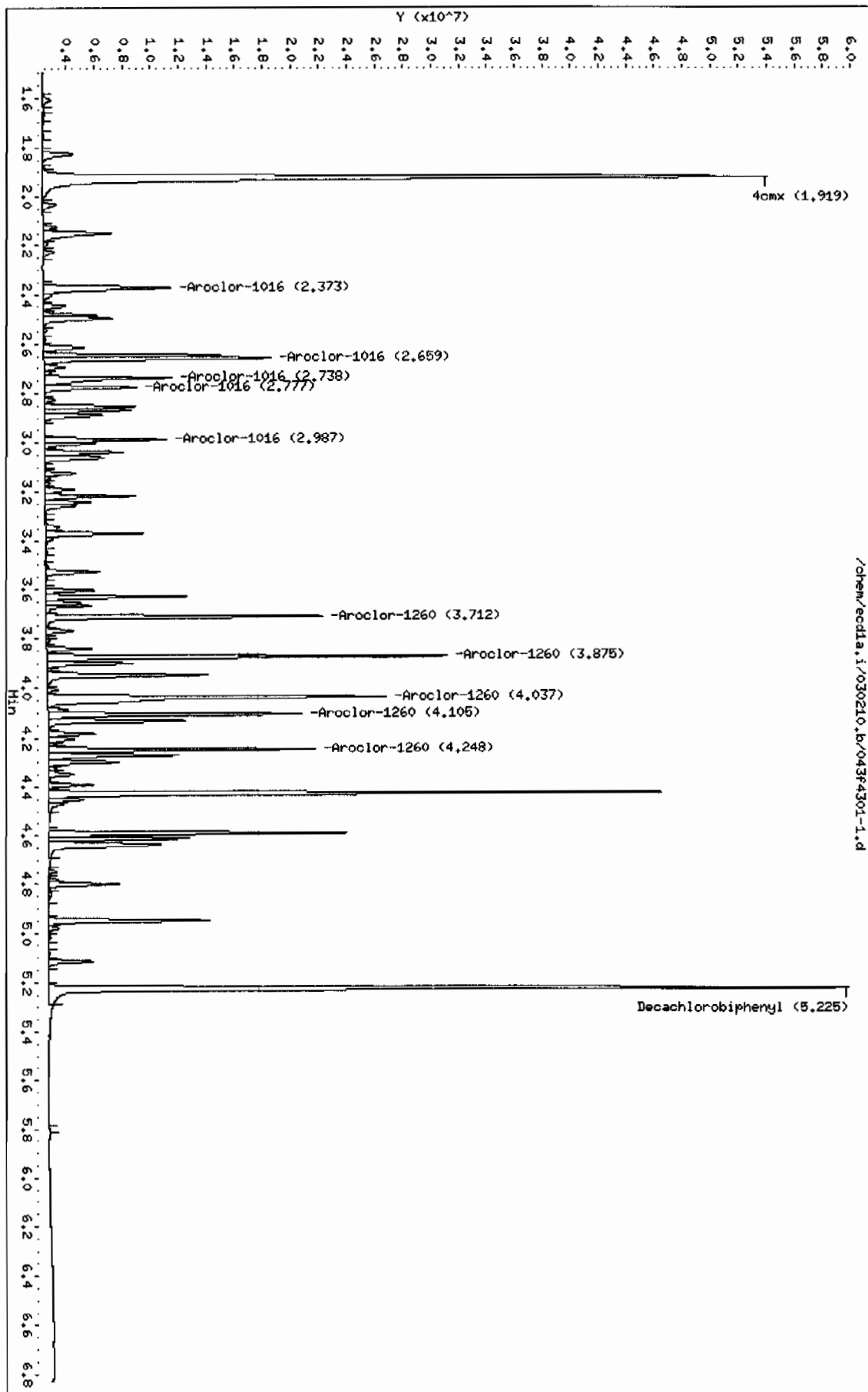
1 Aroclor-1016 CAS #: 12674-11-2						
2.373	2.371	0.002	10726622 697.243	23.2	80.00- 120.00	100.00
2.659	2.658	0.001	13581105 744.700	24.8	109.30- 149.30	126.61
2.738	2.738	0.000	8715097 722.316	24.1	62.80- 102.80	81.25
2.777	2.775	0.002	5319185 749.592	25.0	29.85- 69.85	49.59

CONCENTRATIONS								
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO	
			RESPONSE	(ug/L)	(ug/Kg)			
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
2.987	2.986	0.001	6845750	768.133	25.6	42.86-	82.86	63.82
Average of Peak Concentrations =					24.5			

7 Aroclor-1260					CAS #: 11096-82-5			
3.712	3.712	0.000	14734362	863.051	28.8	80.00-	120.00	100.00
3.875	3.874	0.001	21905220	926.482	30.9	129.76-	169.76	148.67
4.037	4.037	0.000	23605345	945.298	31.5	140.18-	180.18	160.21
4.105	4.105	0.000	13270334	921.188	30.7	69.81-	109.81	90.06
4.248	4.248	0.000	13838216	958.954	32.0	73.00-	113.00	93.92
Average of Peak Concentrations =					30.8			

Data File: /chem/ecdl1.i/030210.b/043f4301-1.d
Date : 02-MAR-2010 14:08
Client ID: PBLK01LCS
Sample Info: 1120205592111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: VSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030210.b/043b4301-1.d
Report Date: 02-Mar-2010 14:27

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/043b4301-1.d
Lab Smp Id: 1202055921 Client Smp ID: PBLK01LCS
Inj Date : 02-MAR-2010 14:08
Operator : YSl Inst ID: ecdl1a.i
Smp Info : |1202055921|1|
Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 13:52 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 43 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2009.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RAT10
=====						
\$ 11 4cmx					CAS #: 877-09-8	
2.278	2.277	0.001	38855442	130.652	4.4 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.920	5.920	0.000	30117561	142.401	4.7 80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2	
3.173	3.172	0.001	9573101	748.496	24.9 80.00- 120.00	100.00 (M)
3.256	3.255	0.001	6219473	697.413	23.2 45.75- 85.75	64.97
3.318	3.318	0.000	3588792	663.852	22.1 20.87- 60.87	37.49
3.546	3.545	0.001	5003990	723.576	24.1 32.63- 72.63	52.27

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====		=====	
1 Aroclor-1016 (continued)									
3.621	3.621	0.000	4738121	737.426	24.6	28.32-	68.32	49.49	
Average of Peak Concentrations =					23.8				

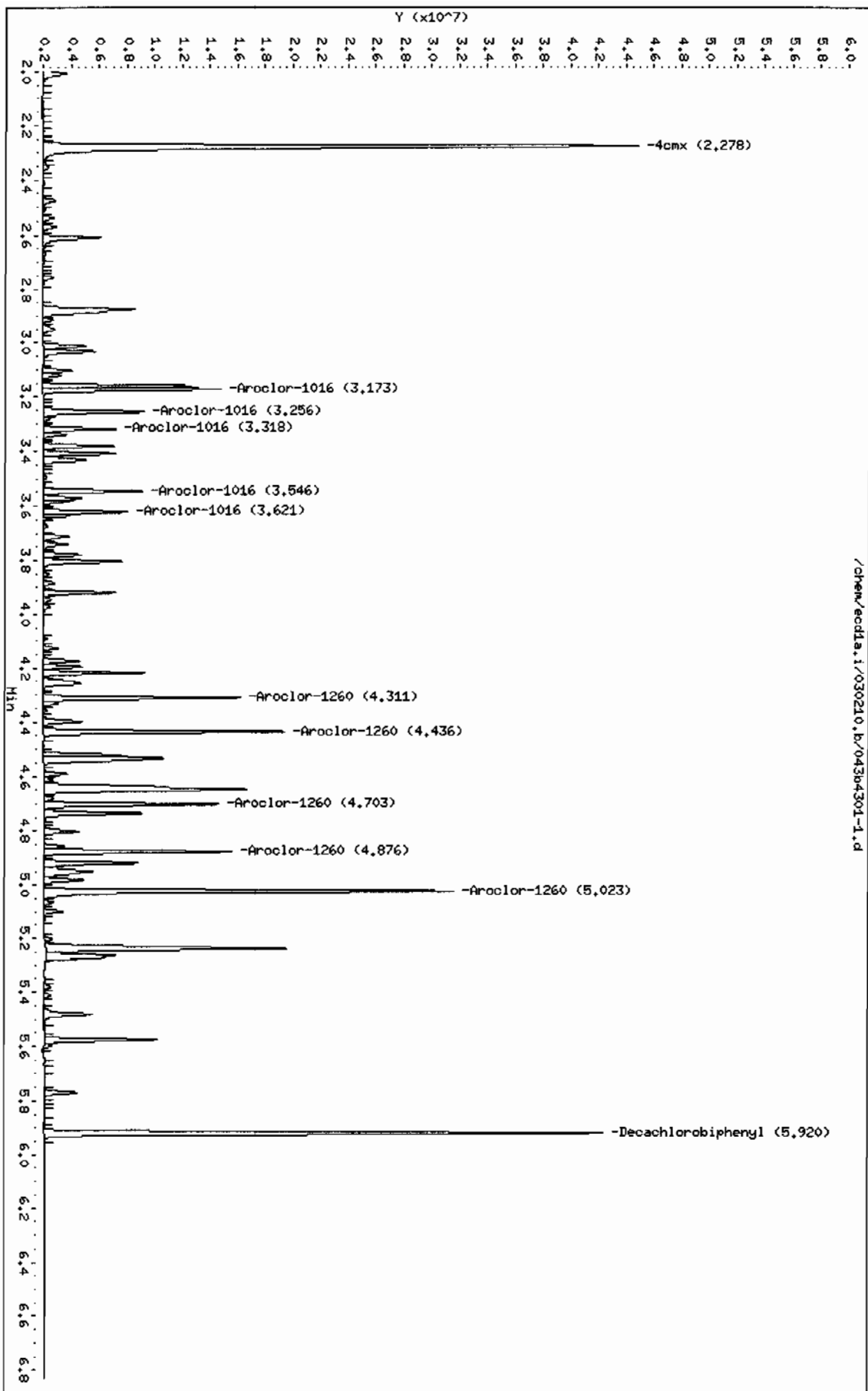
7 Aroclor-1260					CAS #: 11096-82-5				
4.311	4.312	-0.001	10188969	771.562	25.7	80.00-	120.00	100.00	
4.436	4.436	0.000	12487244	802.171	26.7	101.64-	141.64	122.56	
4.703	4.702	0.001	9411117	794.623	26.5	70.65-	110.65	92.37	
4.876	4.875	0.001	9801886	803.355	26.8	74.28-	114.28	96.20	
5.023	5.023	0.000	22231192	838.054	27.9	189.97-	229.97	218.19	
Average of Peak Concentrations =					26.7				

QC Flag Legend

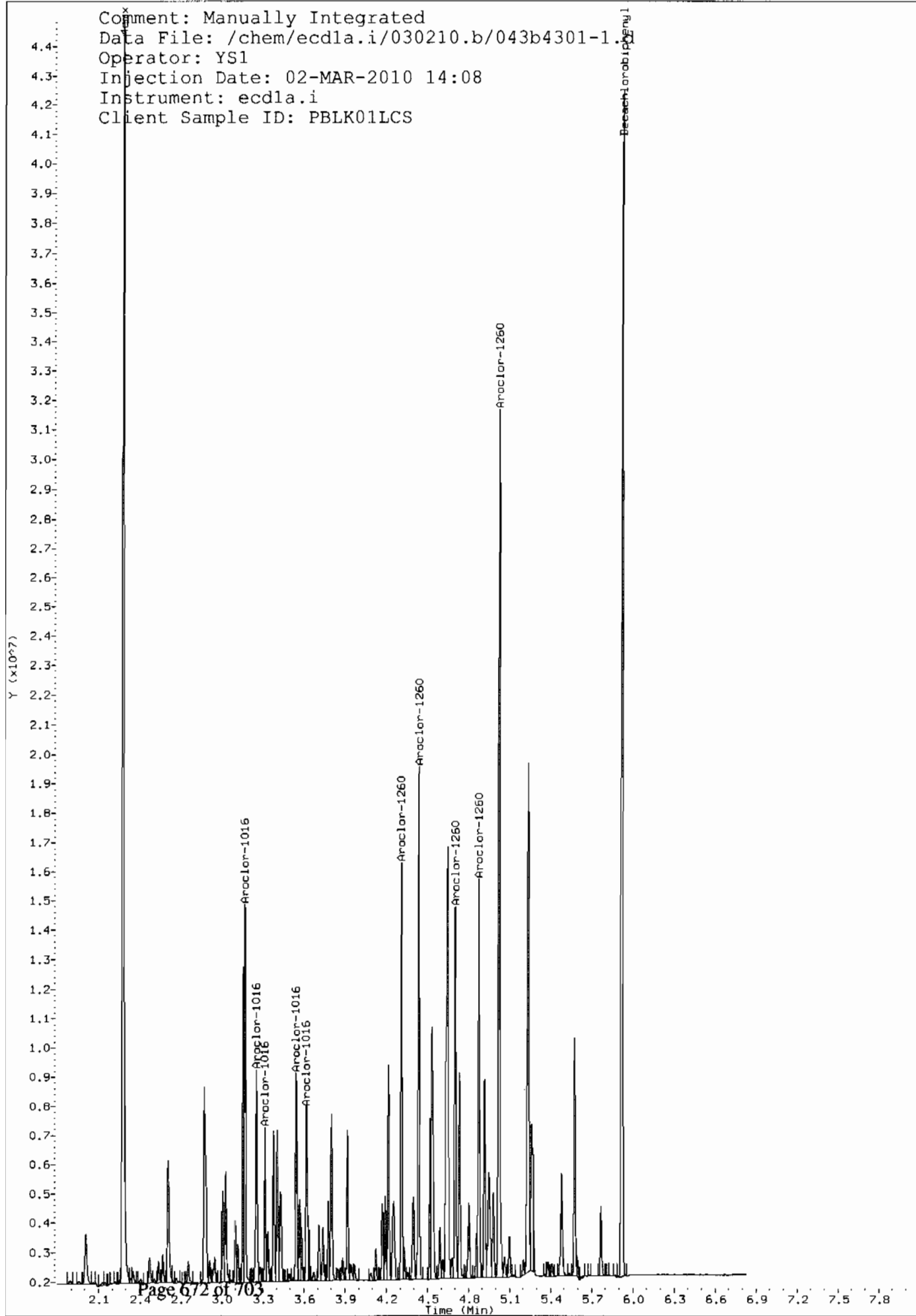
M - Compound response manually integrated.

Data File: /chem/ecdl1a.i/030210.b/043b4301-1.d
 Date: 02-MAR-2010 14:08
 Client ID: PBLKOLCS
 Sample Info: 1120205592111
 Volume Injected (uL): 1.0
 Column phase: CLP2

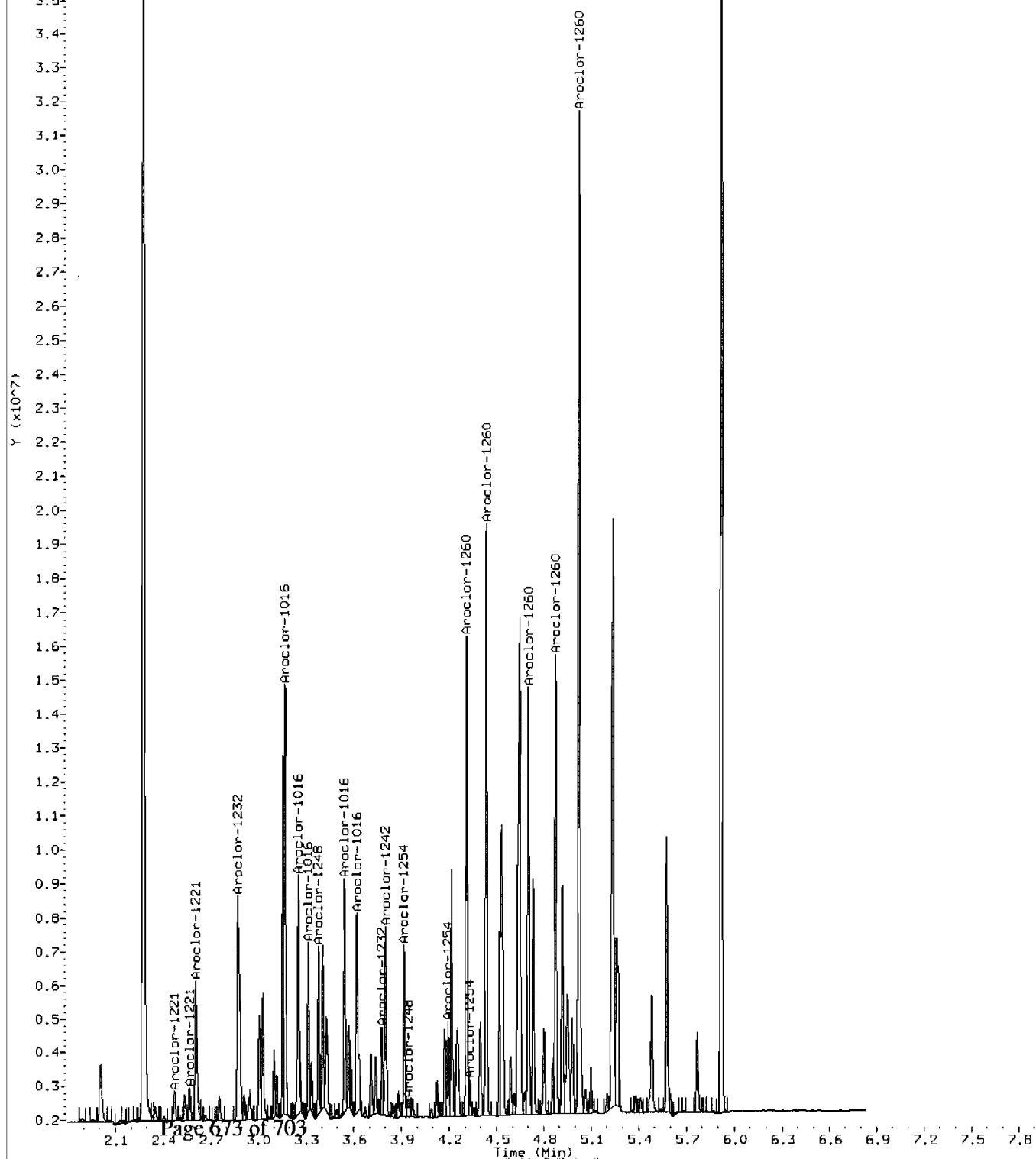
Instrument: ecdl1a.i
 Operator: YSA
 Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1.i/030210.b/043b4301-1.01
Operator: YS1
Injection Date: 02-MAR-2010 14:08
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



BeaachHrobbipJagnyl³



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-2009	Date Collected:	02/18/2010 12:00	Matrix:	R
Lab Sample ID:	1202055922	Date Received:	02/24/2010 08:50	%Moisture:	5.9
Client Sample:	QC for batch 958614	Client:	LANL010	Project:	QC
Client ID:	RE15-10-7896MS	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	958628	Inst:	ECD1A.I	Dilution:	1
Run Date:	03/02/2010 17:45	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	03/01/2010 11:47	Aliquot:	30 g	Final Volume:	1 mL
Data File:	061f6101.d	Column:	1 CLP1	Level:	LOW
	061b6101.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		18.6	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260		26.1	ug/kg	1.18	3.54	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030210.b/061f6101.d

Lab Smp Id: 1202055922

Client Smp ID: RE15-10-7896MS

Inj Date : 02-MAR-2010 17:45

Operator : YS1

Inst ID: ecdla.i

Smp Info : |1202055922|1|

Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|MS|||

Comment :

Method : /chem/ecdla.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 61

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.93350	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

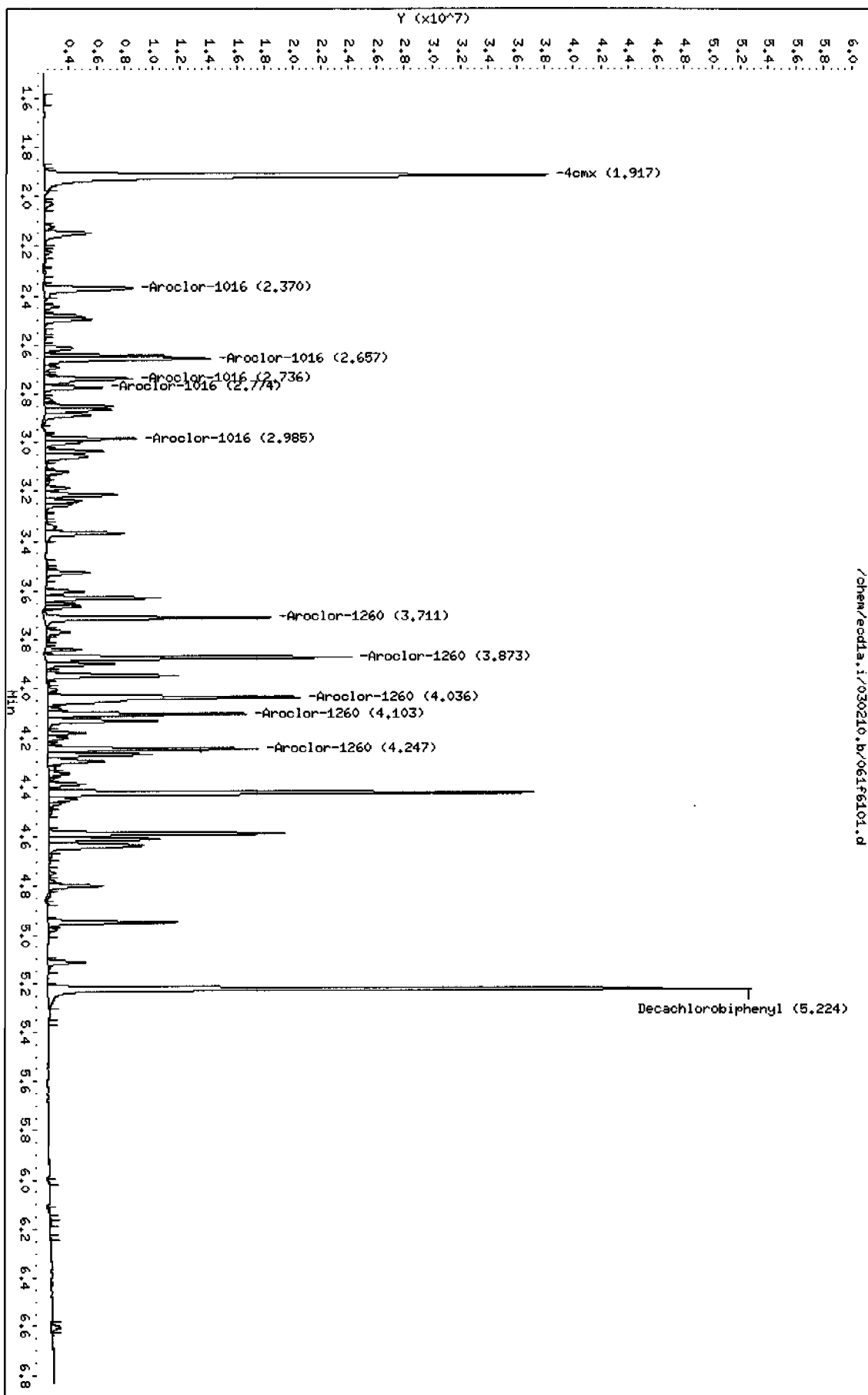
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.917	1.918	-0.001	40701493 94.5146	3.3	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.224	5.224	0.000	39873959 129.760	4.6	80.00- 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
2.370	2.371	-0.001	7817847 508.169	18.0	80.00- 120.00	100.00	
2.657	2.658	-0.001	10415822 571.136	20.2	109.43- 149.43	133.23	
2.736	2.738	-0.002	6178112 512.048	18.1	60.29- 100.29	79.03	
2.774	2.775	-0.001	3235275 455.923	16.2	28.73- 68.73	41.38	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
2.985	2.986	-0.001	5112617	573.665	20.3	41.15-	81.15	65.40	
Average of Peak Concentrations =					18.6				

7 Aroclor-1260					CAS #: 11096-82-5				
3.711	3.712	-0.001	12386996	725.556	25.7	80.00-	120.00	100.00	
3.873	3.874	-0.001	17193390	727.195	25.8	129.01-	169.01	138.80	
4.036	4.037	-0.001	18511521	741.311	26.3	135.70-	175.70	149.44	
4.103	4.105	-0.002	10489649	728.161	25.8	69.29-	109.29	84.68	
4.247	4.248	-0.001	11050120	765.746	27.1	72.14-	112.14	89.21	
Average of Peak Concentrations =					26.1				

Data File: /chem/ecdl1.i/030210.b/061f6101.d
Date : 02-MAR-2010 17:45
Client ID: RELE-10-7896MS
Sample Info: 1120205592211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdla.i/030210.b/061b6101.d
 Lab Smp Id: 1202055922 Client Smp ID: RE15-10-7896MS
 Inj Date : 02-MAR-2010 17:45
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |1202055922|1|
 Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecdla.i/030210.b/ECD1-B-8082-022210.m
 Meth Date : 03-Mar-2010 07:31 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 61 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2009.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.93350	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8							
2.276	2.277	-0.001	27791043	93.4476	3.3	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.920	5.920	0.000	24440319	115.558	4.1	80.00- 120.00	100.00

1 Aroclor-1016 CAS #: 12674-11-2							
3.171	3.172	-0.001	7054942	551.608	19.5	80.00- 120.00	100.00(M)
3.254	3.255	-0.001	4723051	529.613	18.8	45.23- 85.23	66.95
3.317	3.318	-0.001	2914352	539.095	19.1	20.98- 60.98	41.31
3.545	3.545	0.000	4010231	579.879	20.5	31.01- 71.01	56.84

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.620	3.621	-0.001	3416694	531.764	18.8	28.05-	68.05	60.21	
Average of Peak Concentrations =					19.3				

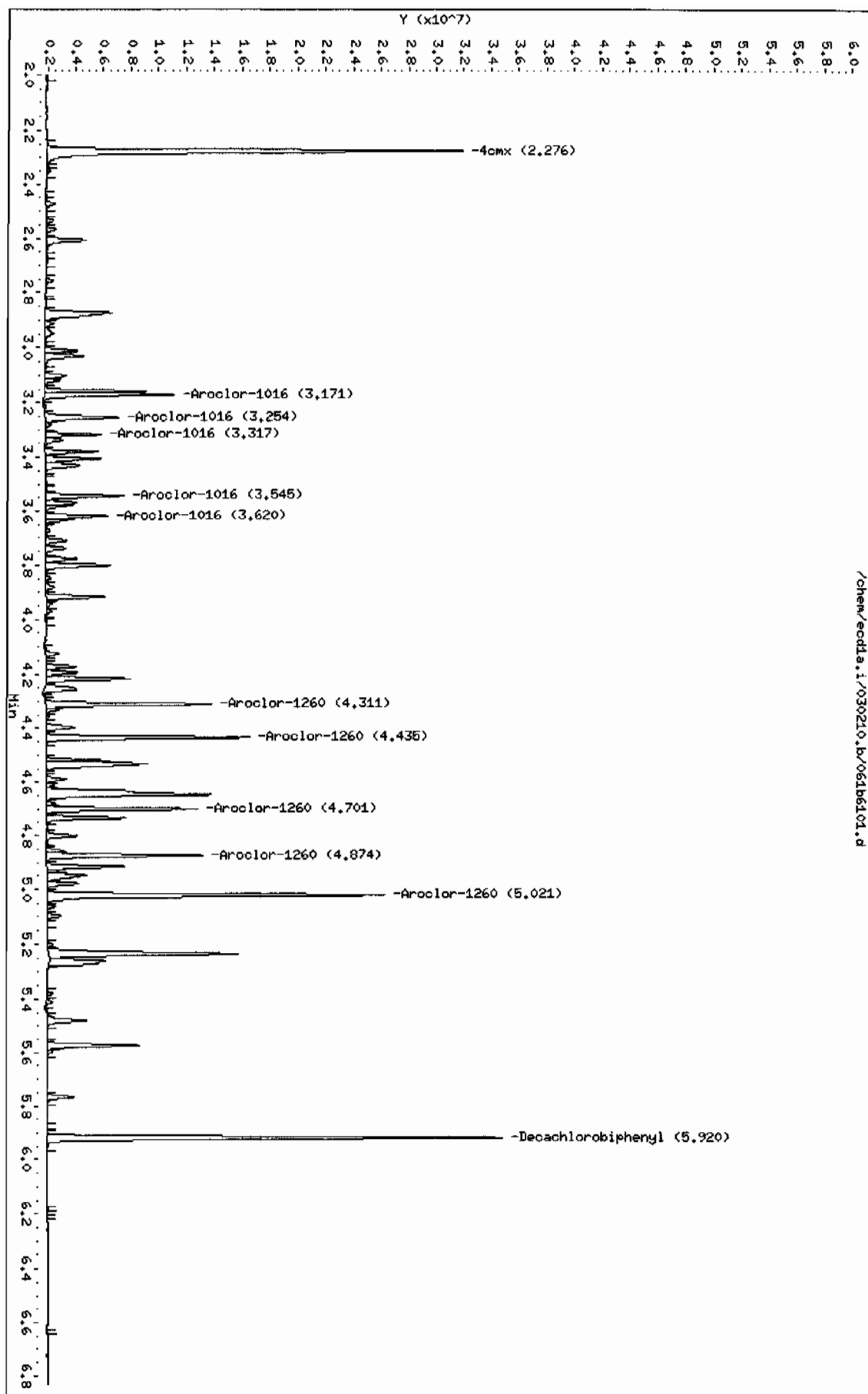
7 Aroclor-1260					CAS #: 11096-82-5				
4.311	4.312	-0.001	8328655	630.689	22.3	80.00-	120.00	100.00	
4.435	4.436	-0.001	10288455	660.922	23.4	102.18-	142.18	123.53	
4.701	4.702	-0.001	7868731	664.392	23.5	71.47-	111.47	94.48	
4.874	4.875	-0.001	8092500	663.255	23.5	74.86-	114.86	97.16	
5.021	5.023	-0.002	18381582	692.934	24.6	192.08-	232.08	220.70	
Average of Peak Concentrations =					23.5				

QC Flag Legend

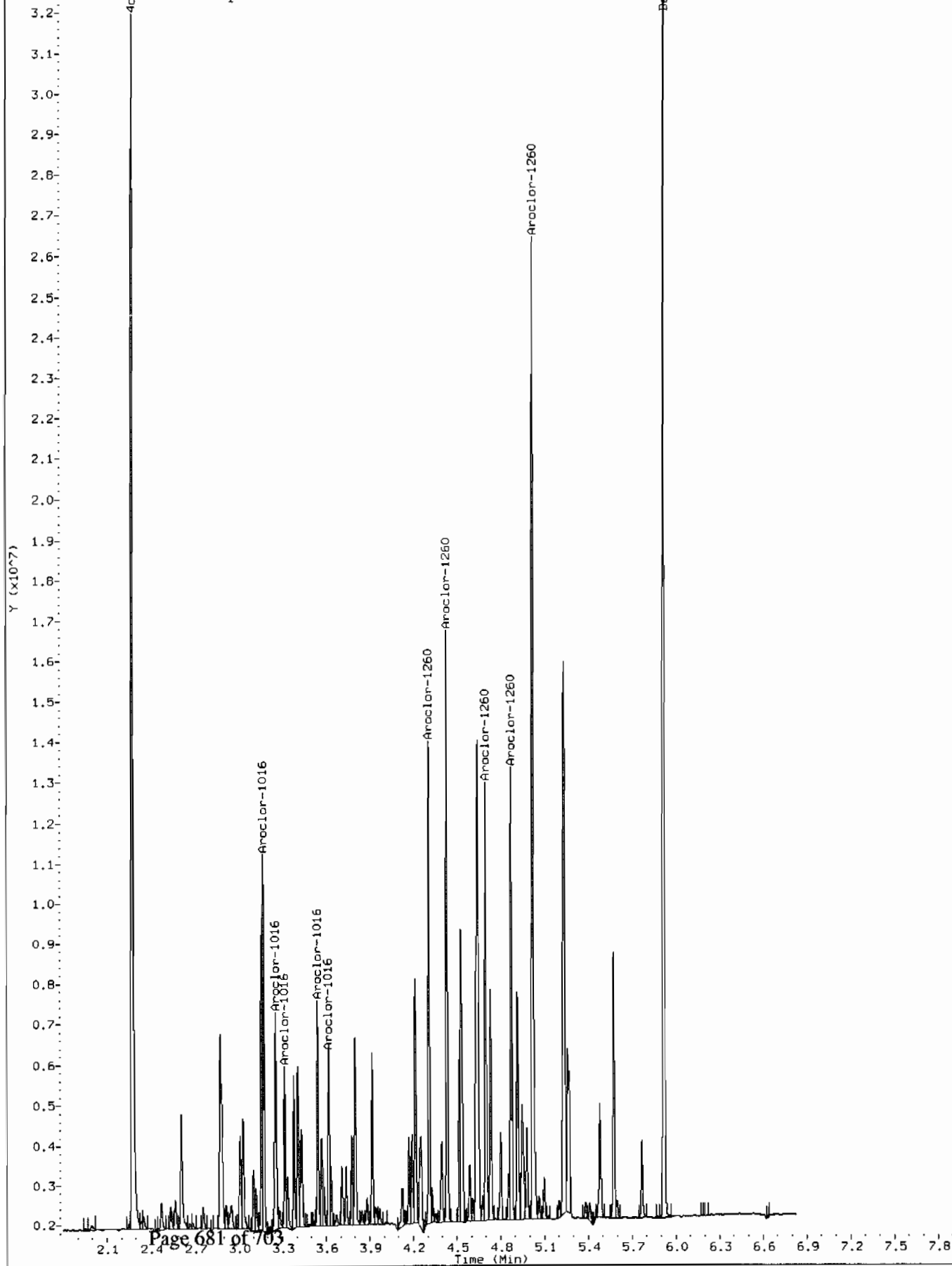
M - Compound response manually integrated.

Data File: /chem/eod1a.i/030210.b/061b6101.d
Date : 02-MAR-2010 17:45
Client ID: RE15-10-7896HS
Sample Info: 1120205922141
Volume Injected (uL): 1.0
Column phase: CLP2

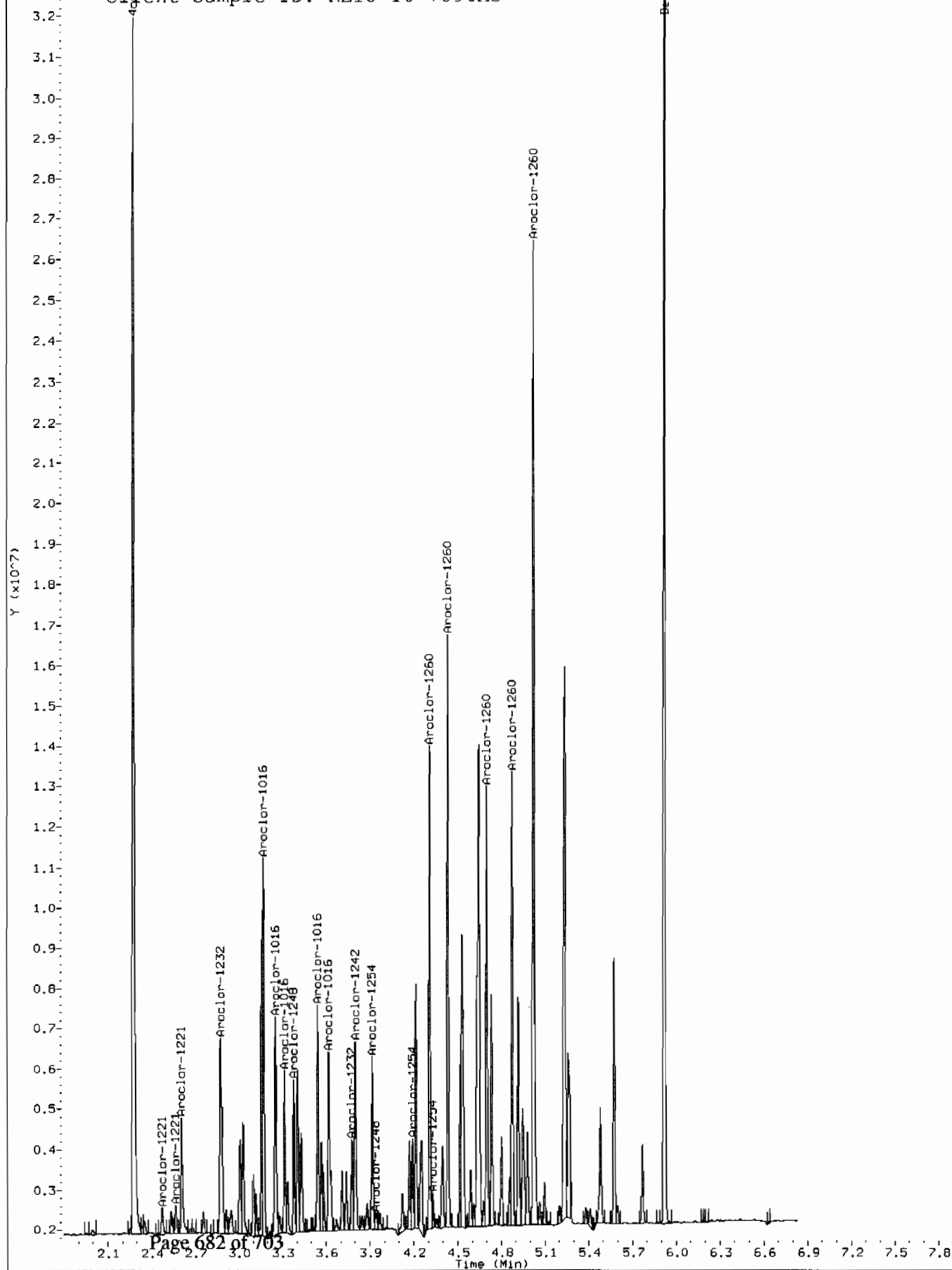
Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030210.b/061b6101.d
Operator: YS1
Injection Date: 02-MAR-2010 17:45
Instrument: ecd1a.i
Client Sample ID: RE15-10-7896MS



Comment: Before manual integration
Data File: /chem/ecdl1.i/030210.b/orig-061b6101.d
Operator: YS1
Injection Date: 02-MAR-2010 17:45
Instrument: ecd1a.i
Client Sample ID: RE15-10-7896MS



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number:	10-2009	Date Collected:	02/18/2010 12:00	Matrix:	R
Lab Sample ID:	1202055923	Date Received:	02/24/2010 08:50	%Moisture:	5.9
Client Sample:	QC for batch 958614	Client:	LANL010	Project:	QC
Client ID:	RE15-10-7896MSD	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	958628	Inst:	ECD1A.I	Dilution:	1
Run Date:	03/02/2010 17:58	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	03/01/2010 11:47	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	062f6201.d	Column:	1 CLP1	Level:	LOW
	062b6201.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		19.1	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260		26.0	ug/kg	1.18	3.54	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/062f6201.d

Lab Smp Id: 1202055923

Client Smp ID: RE15-10-7896MSD

Inj Date : 02-MAR-2010 17:58

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202055923|1|

Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|MSD|

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-F-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 62

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	5.93350	% Moisture

Cpnd Variable

Local Compound Variable

			CONCENTRATIONS				
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.918	1.918	0.000	44928135	104.330	3.7	80.00~ 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.224	5.224	0.000	40502798	131.807	4.7	80.00~ 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.370	2.371	-0.001	8281396	538.300	19.0	80.00~ 120.00	100.00
2.656	2.658	-0.002	10368115	568.521	20.1	109.43~ 149.43	125.20
2.737	2.738	-0.001	6360989	527.206	18.7	60.29~ 100.29	76.81
2.774	2.775	-0.001	3412527	480.901	17.0	28.73~ 68.73	41.21

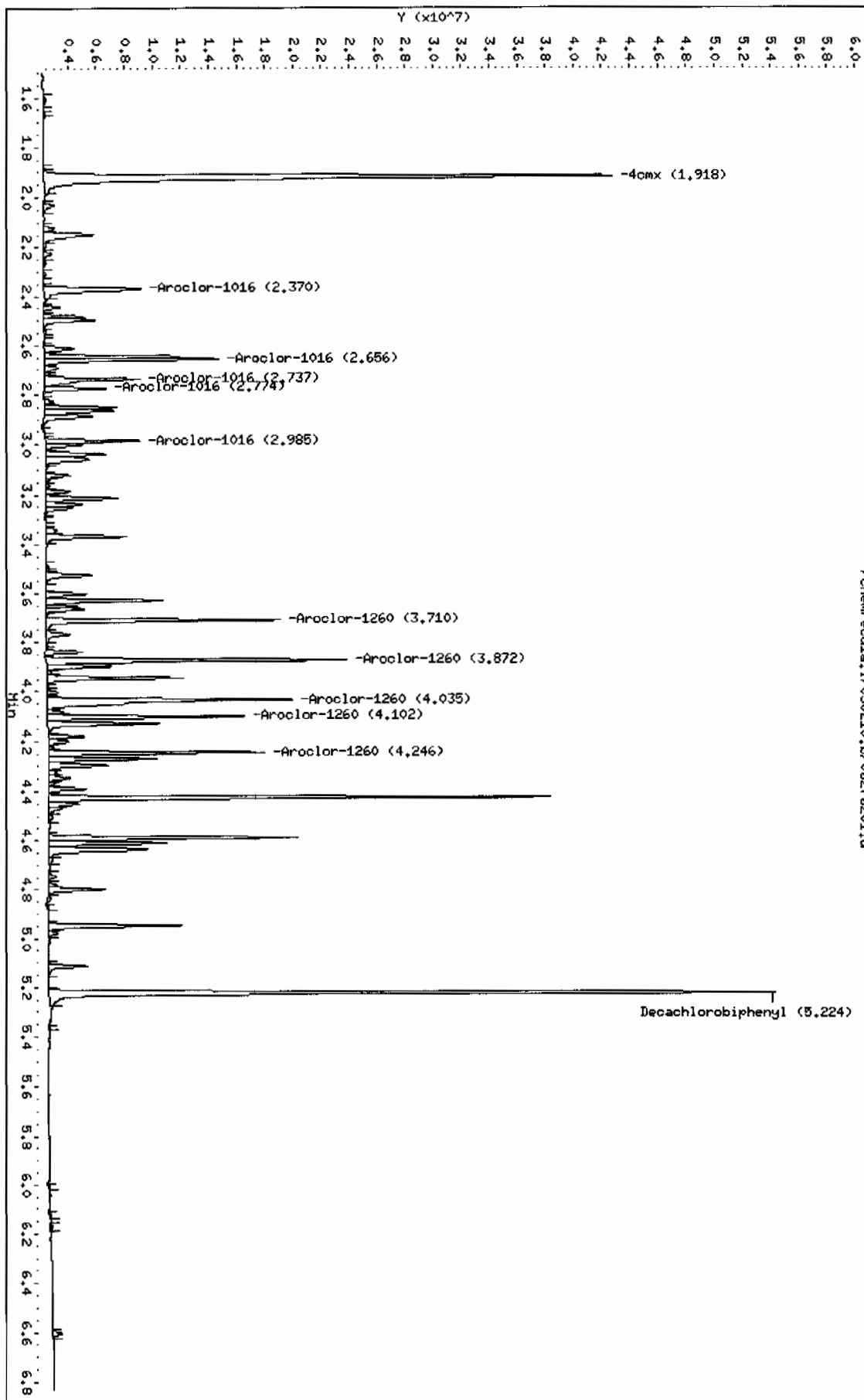
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
2.985	2.986	-0.001	5188530	582.183	20.6	41.15-	81.15	62.65
Average of Peak Concentrations =					19.1			

7 Aroclor-1260					CAS #: 11096-82-5			
3.710	3.712	-0.002	12500685	732.215	25.9	80.00-	120.00	100.00
3.872	3.874	-0.002	16700127	706.332	25.0	129.01-	169.01	133.59
4.035	4.037	-0.002	18411357	737.300	26.1	135.70-	175.70	147.28
4.102	4.105	-0.003	10354892	718.806	25.4	69.29-	109.29	82.83
4.246	4.248	-0.002	11211623	776.938	27.5	72.14-	112.14	89.69
Average of Peak Concentrations =					26.0			

Data File: /chem/ecdl1.i/030210.b/062f6201.d
Date : 02-MAR-2010 17:58
Client ID: REL5-10-7896HSD
Sample Info: 11202055923111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YS1
Column diameter: 0.25

/chem/ecdl1.i/030210.b/062f6201.d



Data File: /chem/ecdl1a.i/030210.b/062b6201.d
 Report Date: 03-Mar-2010 08:01

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030210.b/062b6201.d

Lab Smp Id: 1202055923

Client Smp ID: RE15-10-7896MSD

Inj Date : 02-MAR-2010 17:58

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202055923|1|

Misc Info : |ECD82P_1S|958628|SVA|QC A|SOIL|MSD|

Comment :

Method : /chem/ecdl1a.i/030210.b/ECD1-B-8082-022210.m

Meth Date : 03-Mar-2010 07:31 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 62

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2009.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	5.93350	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
=====								
\$ 11 4cmx					CAS #: 877-09-8			
2.276	2.277	-0.001	30639918	103.027	3.6	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.919	5.920	-0.001	25237243	119.326	4.2	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.171	3.172	-0.001	6999765	547.294	19.4	80.00-	120.00	100.00 (M)
3.254	3.255	-0.001	4815343	539.962	19.1	45.23-	85.23	68.79
3.317	3.318	-0.001	2908428	537.999	19.0	20.98-	60.98	41.55
3.545	3.545	0.000	3973989	574.638	20.3	31.01-	71.01	56.77

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====		=====	=====		=====	
1 Aroclor-1016 (continued)									
3.620	3.621	-0.001	3431422	534.056	18.9	28.05-	68.05	59.65	
Average of Peak Concentrations =					19.3				

7 Aroclor-1260					CAS #: 11096-82-5				
4.310	4.312	-0.002	8493430	643.167	22.8	80.00-	120.00	100.00	
4.435	4.436	-0.001	10365501	665.872	23.6	102.18-	142.18	122.04	
4.701	4.702	-0.001	8056622	680.257	24.1	71.47-	111.47	94.86	
4.874	4.875	-0.001	8327565	682.521	24.2	74.86-	114.86	98.05	
5.021	5.023	-0.002	18962745	714.842	25.3	192.08-	232.08	223.26	
Average of Peak Concentrations =					24.0				

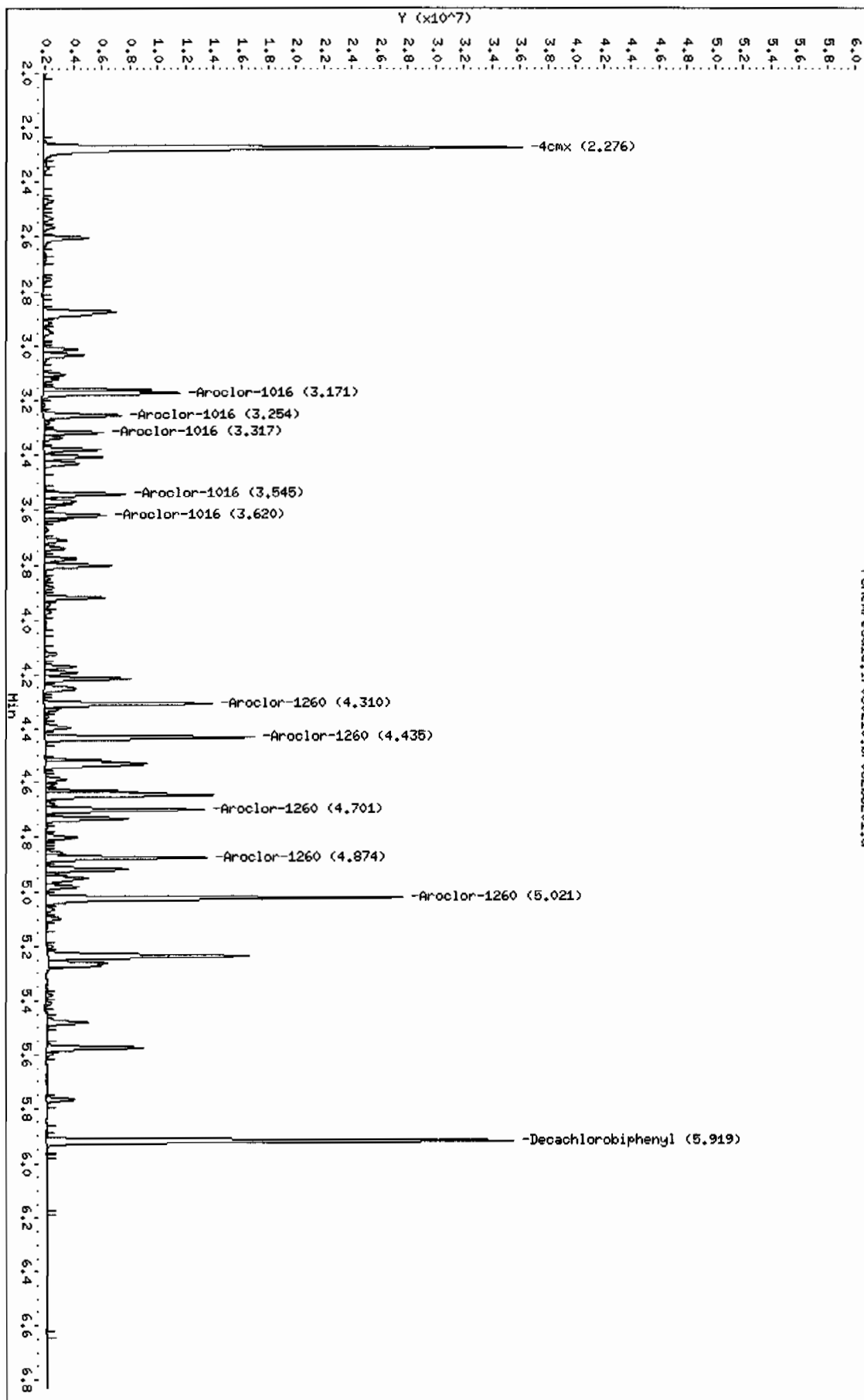
QC Flag Legend

M - Compound response manually integrated.

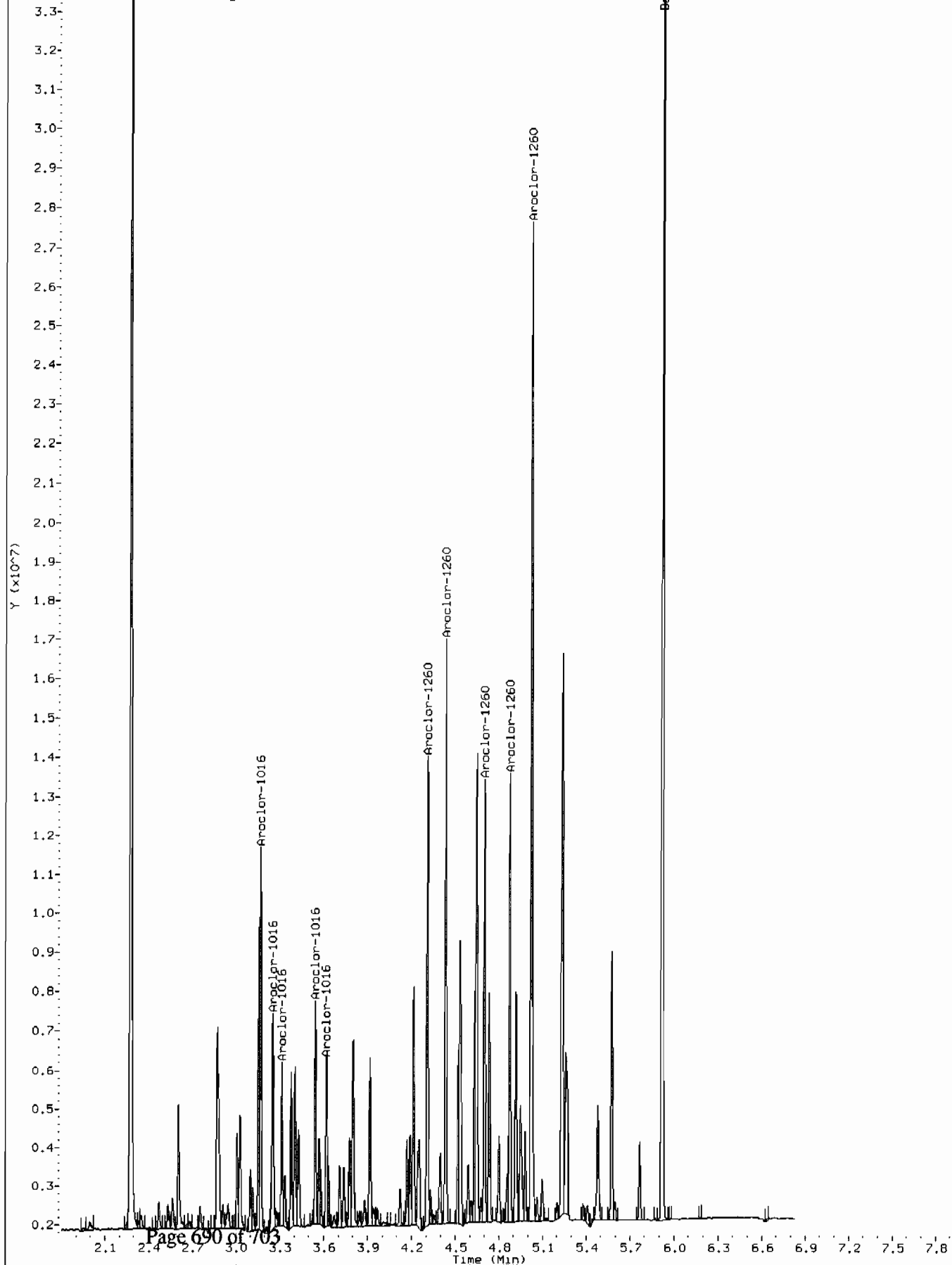
Data File: /chem/ecda.i/030210.b/062b6201.d
Date: 02-MAR-2010 17:58
Client ID: REL5-10-7896HSD
Sample Info: 1120205592311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecda.i
Operator: YSL
Column diameter: 0.25

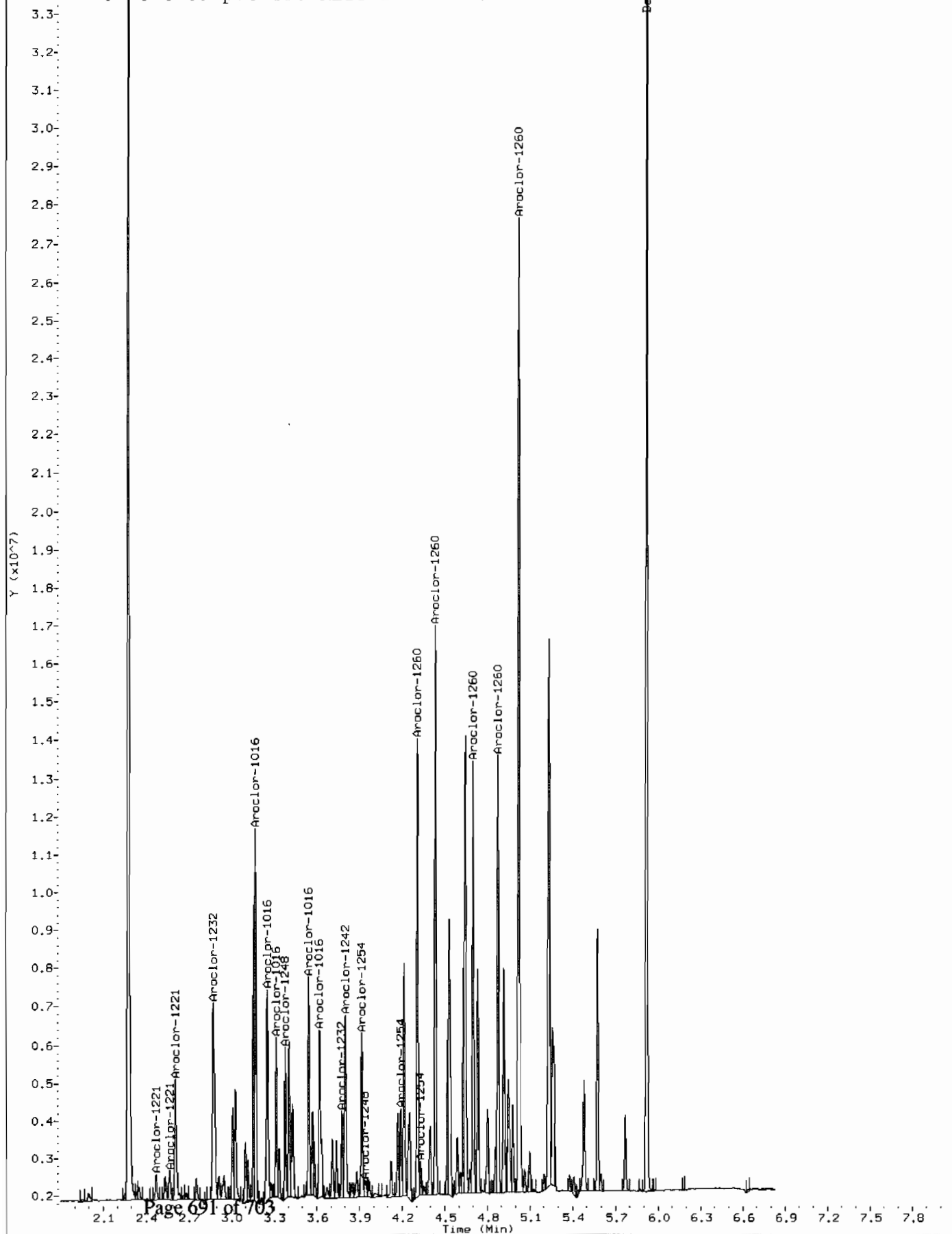
/chem/ecda.i/030210.b/062b6201.d



Comment: Manually Integrated
Data File: /chem/ecdl1.i/030210.b/062b6201.d
Operator: YS1
Injection Date: 02-MAR-2010 17:58
Instrument: ecd1a.i
Client Sample ID: RE15-10-7896MSD



Comment: Before manual integration
Data File: /chem/ecdl1.i/030210.b/orig-062b6201.d
Operator: YS1
Injection Date: 02-MAR-2010 17:58
Instrument: ecld1.i
Client Sample ID: RE15-10-7896MSD



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/23/2010 METHOD: ECD1-F-8082-022210.m OPERATOR: YS1 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 Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/022210.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	WAR100219-99 01	YS1	22-FEB-2010 05:59		022210	1.0	CLEAN	
1002f0201.d	WAR100203-60 01	YS1	22-FEB-2010 06:10		022210	1.0	DUSE RE-ICAL	
1003f0301.d	ARI660-4	YS1	22-FEB-2010 06:20		022210	1.0	DUSE SCREEN	
1004f0401.d	WAR091219-DDT	YS1	22-FEB-2010 06:31		022210	1.0	DOT ANALOG STANDARD	
1005f0501.d	WAR100104-32	YS1	22-FEB-2010 06:41		022210	1.0	PATTERN ONLY	
1006f0601.d	WAR100104-21	YS1	22-FEB-2010 06:52		022210	1.0	PATTERN ONLY	
1007f0701.d	WAR100104-62	YS1	22-FEB-2010 07:03		022210	1.0	PATTERN ONLY	
1008f0801.d	WAR100222-01 60	YS1	22-FEB-2010 07:13		022210	1.0	ARI660 I-CAL LEVEL 1	
1009f0901.d	WAR100222-02 60	YS1	22-FEB-2010 07:24		022210	1.0	ARI660 I-CAL LEVEL 2	
1010f1001.d	WAR100222-03 60	YS1	22-FEB-2010 07:34		022210	1.0	ARI660 I-CAL LEVEL 3	
1011f1101.d	WAR100222-04 60	YS1	22-FEB-2010 07:45		022210	1.0	ARI660 I-CAL LEVEL 4	
1012f1201.d	WAR100104-01	YS1	22-FEB-2010 07:55		022210	1.0	ARI660 I-CAL LEVEL 5	
1013f1301.d	WAR100203-60 01	YS1	22-FEB-2010 08:06		022210	1.0	PASSED ON BOTH COLUMNS	
1014f1401.d	WAR100222-05 54	YS1	22-FEB-2010 08:16		022210	1.0	ARI254 I-CAL LEVEL 1	
1015f1501.d	WAR100222-06 54	YS1	22-FEB-2010 08:27		022210	1.0	ARI254 I-CAL LEVEL 2	

Instrument Batch: /chem/ecd1a.i/022210.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1601.d	WAR100222-07 54	YS1	22-FEB-2010 08:37		022210	1.01	ARI254 I-CAL LEVEL 3
1017f1701.d	WAR100222-08 54	YS1	22-FEB-2010 08:48		022210	1.01	ARI254 I-CAL LEVEL 4
1018f1801.d	WAR100219-02	YS1	22-FEB-2010 08:59		022210	1.01	ARI254 I-CAL LEVEL 5
1019f1901.d	WAR100219-54	YS1	22-FEB-2010 09:09		022210	1.01	PASSED ON BOTH COLUMNS
1020f2001.d	WAR100222-09 42	YS1	22-FEB-2010 09:20		022210	1.01	ARI242 I-CAL LEVEL 1
1021f2101.d	WAR100222-10 42	YS1	22-FEB-2010 09:30		022210	1.01	ARI242 I-CAL LEVEL 2
1022f2201.d	WAR100222-11 42	YS1	22-FEB-2010 09:41		022210	1.01	ARI242 I-CAL LEVEL 3
1023f2301.d	WAR100222-12 42	YS1	22-FEB-2010 09:51		022210	1.01	ARI242 I-CAL LEVEL 4
1024f2401.d	WAR100219-01	YS1	22-FEB-2010 10:02		022210	1.01	ARI242 I-CAL LEVEL 5
1025f2501.d	WAR100219-42	YS1	22-FEB-2010 10:12		022210	1.01	PASSED ON BOTH COLUMNS
1026f2601.d	WAR100222-13 48	YS1	22-FEB-2010 10:23		022210	1.01	ARI248 I-CAL LEVEL 1
1027f2701.d	WAR100222-14 48	YS1	22-FEB-2010 10:33		022210	1.01	ARI248 I-CAL LEVEL 2
1028f2801.d	WAR100222-15 48	YS1	22-FEB-2010 10:44		022210	1.01	ARI248 I-CAL LEVEL 3
1029f2901.d	WAR100211-01	YS1	22-FEB-2010 10:54		022210	1.01	ARI248 I-CAL LEVEL 5
1030f3001.d	WAR100222-16	YS1	22-FEB-2010 11:05		022210	1.01	ARI248 I-CAL LEVEL 4
1031f3101.d	WAR091217-48	YS1	22-FEB-2010 11:16		022210	1.01	PASSED ON BOTH COLUMNS
1032f3201.d	WAR100222-17 68	YS1	22-FEB-2010 11:26		022210	1.01	ARI268 I-CAL LEVEL 1
1033f3301.d	WAR100222-18 68	YS1	22-FEB-2010 11:37		022210	1.01	ARI268 I-CAL LEVEL 2
1034f3401.d	WAR100222-19 68	YS1	22-FEB-2010 11:47		022210	1.01	ARI268 I-CAL LEVEL 3
1035f3501.d	WAR100222-20 68	YS1	22-FEB-2010 11:58		022210	1.01	ARI268 I-CAL LEVEL 4

Instrument Batch: /chem/ecdl1.1/022210.b

Page: 2

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	ARI00104-05	YS1	22-FEB-2010 12:08		022210	1.01	ARI268 I-CAL LEVEL 5	
1037f3701.d	WAR100107-68	YS1	22-FEB-2010 12:19		022210	1.01	PASSED ON BOTH COLUMNS	
1038f3801.d	WAR100219-99 02	YS1	22-FEB-2010 12:29		022210	1.01	CLEAN	
1039f3901.d	1202046866	YS1	22-FEB-2010 12:40	954781	10-1846	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
1039f3901-2.d	1202046866	YS1	22-FEB-2010 12:40	954781	10-1848	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	

039f3901.d	1202046866	YS1	22-FEB-2010 12:40	1954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001-1.d	1202046867	YS1	22-FEB-2010 12:50	1954781	10-1846	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001-2.d	1202046867	YS1	22-FEB-2010 12:50	1954781	10-1848	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001.d	1202046867	YS1	22-FEB-2010 12:50	1954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
041f4101.d	1246968001	YS1	22-FEB-2010 13:01	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
042f4201.d	1246968002	YS1	22-FEB-2010 13:14	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
043f4301.d	1246968003	YS1	22-FEB-2010 13:26	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
044f4401.d	1246968004	YS1	22-FEB-2010 13:39	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
045f4501.d	1246968005	YS1	22-FEB-2010 13:51	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
046f4601.d	1246968006	YS1	22-FEB-2010 14:04	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
047f4701.d	1246968007	YS1	22-FEB-2010 14:17	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
048f4801.d	1246968008	YS1	22-FEB-2010 14:30	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	1246968009	YS1	22-FEB-2010 14:42	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
050f5001.d	1246968010	YS1	22-FEB-2010 14:53	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
051f5101.d	1246968011	YS1	22-FEB-2010 15:03	1954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/022210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
052f5201.d	1246968010	YS1	22-FEB-2010 15:16	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
053f5301.d	1246968011	YS1	22-FEB-2010 15:28	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
054f5401.d	1246968012	YS1	22-FEB-2010 15:41	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
055f5501.d	1246968013	YS1	22-FEB-2010 15:54	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
056f5601.d	1246968014	YS1	22-FEB-2010 16:06	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
057f5701.d	1246968015	YS1	22-FEB-2010 16:19	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
058f5801.d	1246968016	YS1	22-FEB-2010 16:32	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
059f5901.d	1246968017	YS1	22-FEB-2010 16:44	1954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
060f6001.d	1247121002	YS1	22-FEB-2010 16:57	1954781	10-1846	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

061f6101.d	WAR100203-60 03	YS1	22-FEB-2010 17:10		1022210	1.01	PASSED ON BOTH COLUMNS
062f6201.d	WAR100219-99 04	YS1	22-FEB-2010 17:22		1022210	1.01	CLEAN
063f6301.d	247123001	YS1	22-FEB-2010 17:35	954781	110-1848	1.01 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	11202046868	YS1	22-FEB-2010 17:48	954781	110-1848	1.01 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
065f6501.d	11202046869	YS1	22-FEB-2010 18:00	954781	110-1848	1.01 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
066f6601.d	WAR100203-60 04	YS1	22-FEB-2010 18:13		1022210	1.01	PASSED ON BOTH COLUMNS
067f6701.d	WAR100219-99 05	YS1	22-FEB-2010 18:26		1022210	1.01	CLEAN
068f6801.d	11202048527	YS1	22-FEB-2010 18:38	955479	110-1818	1.01 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
069f6901.d	11202048528	YS1	22-FEB-2010 18:51	955479	110-1818	1.01 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
070f7001.d	247043003	YS1	22-FEB-2010 19:04	955479	110-1818	1.01 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
071f7101.d	11202048529	YS1	22-FEB-2010 19:16	955479	110-1818	1.01 QC A	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
072f7201.d	1202048530	YS1	22-FEB-2010 19:29	955479	110-1818	1.01	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
073f7301.d	247043004	YS1	22-FEB-2010 19:42	955479	10-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
074f7401.d	247043005	YS1	22-FEB-2010 19:54	955479	10-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
075f7501.d	247043006	YS1	22-FEB-2010 20:07	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
076f7601.d	247043007	YS1	22-FEB-2010 20:20	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
077f7701.d	247043008	YS1	22-FEB-2010 20:32	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
078f7801.d	WAR100203-60 05	YS1	22-FEB-2010 20:45		1022210	1.01		PASSED ON BOTH COLUMNS
079f7901.d	WAR100219-99 06	YS1	22-FEB-2010 20:58		1022210	1.01		CLEAN
080f8001.d	247043009	YS1	22-FEB-2010 21:10	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
081f8101.d	247043010	YS1	22-FEB-2010 21:23	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
082f8201.d	247043011	YS1	22-FEB-2010 21:35	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
083f8301.d	247043012	YS1	22-FEB-2010 21:48	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
084f8401.d	247043013	YS1	22-FEB-2010 22:01	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
085f8501.d	247043014	YS1	22-FEB-2010 22:13	955479	110-1818	1.01	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

086f8601.d	247043015	YS1	22-FEB-2010 22:26	955479	10-1818	1.0/LANL	CPLOAD BOTH COLUMNS, USE HIGHER
087f8701.d	247043016	YS1	22-FEB-2010 22:39	955479	10-1818	1.0/LANL	CPLOAD BOTH COLUMNS, USE HIGHER
088f8801.d	247043017	YS1	22-FEB-2010 22:51	955479	10-1818	1.0/LANL	SURROGATE LOW RE
089f8901.d	247043018	YS1	22-FEB-2010 23:04	955479	10-1818	1.0/LANL	CPLOAD BOTH COLUMNS, USE HIGHER
090f9001.d	WAR100203-60 06	YS1	22-FEB-2010 23:17		022210	1.01	PASSED ON BOTH COLUMNS
091f9101.d	WAR100219-99 07	YS1	22-FEB-2010 23:29		022210	1.01	CLEAN

Instrument Batch: /chem/ecd1a.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
092f9201.d	1660	YS1	22-FEB-2010 23:42		022210	1.0		DUSE SCREEN
093f9301.d	1660-4	YS1	22-FEB-2010 23:55		022210	1.01		DUSE SCREEN

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 03/03/2010 METHOD: ECD1-F-8082-022210.m OPERATOR: YS1 REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA936
ALUMINA LOT 1273992-A
COPPER LOT 1249397-ACalibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/030210.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100219-99 01	YS1	02-MAR-2010 05:38		030210	1.0	CLEAN	
002f0201.d	WAR100222-60 01	YS1	02-MAR-2010 05:48		030210	1.0	PASSED ON BOTH COLUMNS	
003f0301.d	WAR100219-54	YS1	02-MAR-2010 05:59		030210	1.0	PASSED ON BOTH COLUMNS	
004f0401.d	WAR100219-42	YS1	02-MAR-2010 06:09		030210	1.0	PASSED ON BOTH COLUMNS	
005f0501.d	WAR100223-48	YS1	02-MAR-2010 06:20		030210	1.0	PASSED ON BOTH COLUMNS	
006f0601.d	WAR100107-68	YS1	02-MAR-2010 06:30		030210	1.0	PASSED ON BOTH COLUMNS	
007f0701.d	WAR100104-32	YS1	02-MAR-2010 06:41		030210	1.0	PATTERN ONLY	
008f0801.d	WAR100104-21	YS1	02-MAR-2010 06:52		030210	1.0	PATTERN ONLY	
009f0901.d	WAR100104-62	YS1	02-MAR-2010 07:02		030210	1.0	PATTERN ONLY	
010f1001.d	WAR091219-00*	YS1	02-MAR-2010 07:13		030210	1.0	DOT ANALOG STANDARD	
011f1101.d	WAR100219-99 02	YS1	02-MAR-2010 07:23		030210	1.0	CLEAN	
012f1201.d	1202055189	YS1	02-MAR-2010 07:34	958329	EUI-7514	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
013f1301.d	1202055190	YS1	02-MAR-2010 07:44	958329	EUI-7514	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
014f1401.d	1202055193	YS1	02-MAR-2010 07:55	958329	EUI-7514	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
015f1501.d	1247189004	YS1	02-MAR-2010 08:05	958329	1247189	5.0	IBWXT	DUSE RR NEAT

Instrument Batch: /chem/ecd1a.i/030210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1601.d	1202055191	YS1	02-MAR-2010 08:18	958329	(2474C7001MSD)	5.0 QC A	DUSE RR 25X
1017f1701.d	1202055192	YS1	02-MAR-2010 08:30		(2474C7001MSD)	5.0	DUSE RR 25X
1018f1801.d	1247189004	YS1	02-MAR-2010 08:43	958329	247189	1.0 BWXT	UPLOAD BOTH COLUMNS, USE HIGHER
1019f1901.d	1247189008	YS1	02-MAR-2010 09:05	958329	247189	1.0 BWXT	DUSE RR AFTER MORE SULFUR CLEANED
1020f2001.d	1247407001	YS1	02-MAR-2010 09:18	958329	EUI-7514	5.0 CARE	DUSE RR 25X
1021f2101.d	1247189008	YS1	02-MAR-2010 09:31	958329	247189	1.0 BWXT	DUSE RR
1022f2201.d	1247189008	YS1	02-MAR-2010 09:48		030210	1.0	PASSED ON BOTH COLUMNS
1023f2301.d	1247189008	YS1	02-MAR-2010 09:58		030210	1.0	CLEAN
1024f2401.d	1247407001	YS1	02-MAR-2010 10:09	958329	EUI-7514	25.0 CARE	UPLOAD BOTH COLUMNS, USE HIGHER
1025f2501.d	1202055191	YS1	02-MAR-2010 10:22	958329	EUI-7514	25.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1026f2601.d	1202055192	YS1	02-MAR-2010 10:34	958329	EUI-7514	25.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1027f2701.d	1247189008	YS1	02-MAR-2010 11:00	958329	247189	1.0 BWXT	UPLOAD BOTH COLUMNS, USE HIGHER
1028f2801.d	1247189008	YS1	02-MAR-2010 11:13		030210	1.0	PASSED ON BOTH COLUMNS
1029f2901.d	1247189008	YS1	02-MAR-2010 11:24		030210	1.0	CLEAN
1030f3001.d	1202057865	YS1	02-MAR-2010 11:34	959470	248141	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1031f3101.d	1202057866	YS1	02-MAR-2010 11:45	959470	248141	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1032f3201.d	1248141001	YS1	02-MAR-2010 11:55	959470	248141	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1033f3301.d	1202057867	YS1	02-MAR-2010 12:08	959470	248141	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1034f3401.d	1202057868	YS1	02-MAR-2010 12:20	959470	248141	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1035f3501.d	1248141002	YS1	02-MAR-2010 12:33	959470	248141	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/030210.b

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1036f3601.d	1248141003	YS1	02-MAR-2010 12:46	959470	248141	10.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1037f3701.d	1248141004	YS1	02-MAR-2010 12:58	959470	248141	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1038f3801.d	1248141005	YS1	02-MAR-2010 13:11	959470	248141	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1039f3901.d	1248141006	YS1	02-MAR-2010 13:24	959470	248141	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	1248141007	YS1	02-MAR-2010 13:36		030210	1.0	PASSED ON BOTH COLUMNS

041f4101.d	WAR100219-99 05	YS1	02-MAR-2010 13:47		030210	1.0	CLEAN
042f4201.d	1202055920	YS1	02-MAR-2010 13:58	958628	10-1990	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
043f4301.d	1202055921	YS1	02-MAR-2010 14:08	958628	10-1990	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
044f4401.d	1247799001	YS1	02-MAR-2010 14:19	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
045f4501.d	1247799002	YS1	02-MAR-2010 14:31	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
046f4601.d	1247799003	YS1	02-MAR-2010 14:44	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
047f4701.d	1247799004	YS1	02-MAR-2010 14:56	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
048f4801.d	1247799005	YS1	02-MAR-2010 15:09	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	1247799006	YS1	02-MAR-2010 15:22	958628	10-1990	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
050f5001.d	1247799007	YS1	02-MAR-2010 15:34	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
051f5101.d	1247799008	YS1	02-MAR-2010 15:47	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
052f5201.d	WAR100222-60 05	YS1	02-MAR-2010 16:00		030210	1.0	PASSED ON BOTH COLUMNS
053f5301.d	WAR100219-99 06	YS1	02-MAR-2010 16:10		030210	1.0	CLEAN
054f5401.d	1247799009	YS1	02-MAR-2010 16:21	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
055f5501.d	1247799010	YS1	02-MAR-2010 16:33	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl.a.i/030210.b

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056f5601.d	1247799011	YS1	02-MAR-2010 16:46	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
057f5701.d	1247799012	YS1	02-MAR-2010 16:59	958628	10-1990	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
058f5801.d	WAR100222-60 06	YS1	02-MAR-2010 17:11		030210	1.0	PASSED ON BOTH COLUMNS
059f5901.d	WAR100219-99 07	YS1	02-MAR-2010 17:22		030210	1.0	CLEAN
060f6001.d	1247897001	YS1	02-MAR-2010 17:32	958628	10-2009	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
061f6101.d	1202055922	YS1	02-MAR-2010 17:45	958628	10-2009	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
062f6201.d	1202055923	YS1	02-MAR-2010 17:58	958628	10-2009	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
063f6301.d	1247897002	YS1	02-MAR-2010 18:10	958628	10-2009	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	1247897003	YS1	02-MAR-2010 18:23	958628	10-2009	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

1065f6501.d	1247897004	.YSL	102-MAR-2010 18:35	1958628	110-2009	1	1.31	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1065f6601.d	1247897005	.YSL	102-MAR-2010 18:48	1958628	110-2009	1	1.31	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1067f6701.d	1247897006	.YSL	102-MAR-2010 19:01	1958628	110-2009	1	1.31	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1068f6801.d	1247897007	.YSL	102-MAR-2010 19:13	1958628	110-2009	1	1.31	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1069f6901.d	1247897008	.YSL	102-MAR-2010 19:26	1958628	110-2009	1	1.31	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1070f7001.d	WAR10222-60 07	.YSL	102-MAR-2010 19:39	1	030210	1	1.31		PASSED ON BOTH COLUMNS
1071f7101.d	WAR10219-99 08	.YSL	102-MAR-2010 19:49	1	030210	1	1.31		CLEAN

Instrument Batch: /chem/ecd1a.i/030210.b

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 958614
 Analyst: Robin Hunt
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202055920 MB	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
1202055921 LCS	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
247799001	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
247799002	01-MAR-2010 11:47:00	30.01	H2SO4/KMn	1	8	1	0.0332	
247799003	01-MAR-2010 11:47:00	30.09	H2SO4/KMn	1	8	1	0.0323	
247799004	01-MAR-2010 11:47:00	30.09	H2SO4/KMn	1	8	1	0.0323	
247799005	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
247799006	01-MAR-2010 11:47:00	30.01	H2SO4/KMn	1	8	1	0.0332	
247799007	01-MAR-2010 11:47:00	30.03	H2SO4/KMn	1	8	1	0.033	
247799008	01-MAR-2010 11:47:00	30.05	H2SO4/KMn	1	8	1	0.0328	
247799009	01-MAR-2010 11:47:00	30.08	H2SO4/KMn	1	8	1	0.0324	
247799010	01-MAR-2010 11:47:00	30.03	H2SO4/KMn	1	8	1	0.033	
247799011	01-MAR-2010 11:47:00	30.01	H2SO4/KMn	1	8	1	0.0332	
247799012	01-MAR-2010 11:47:00	30.02	H2SO4/KMn	1	8	1	0.0331	
247897001	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
1202055922 MS (247897001)	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
1202055923 MSD (247897001)	01-MAR-2010 11:47:00	30.03	H2SO4/KMn	1	8	1	0.033	
247897002	01-MAR-2010 11:47:00	30.09	H2SO4/KMn	1	8	1	0.0323	
247897003	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
247897004	01-MAR-2010 11:47:00	30.03	H2SO4/KMn	1	8	1	0.033	
247897005	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
247897006	01-MAR-2010 11:47:00	30.03	H2SO4/KMn	1	8	1	0.033	
247897007	01-MAR-2010 11:47:00	30.02	H2SO4/KMn	1	8	1	0.0331	
247897008	01-MAR-2010 11:47:00	30	H2SO4/KMn	1	8	1	0.0333	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202055921	PCB Laboratory Control	WEI00224-07	1	mL	Clean up Date: 03/01/2010		
MS	1202055922	PCB Laboratory Control	WEI00224-07	1	mL	Clean up Initials: RWH		
MSD	1202055923	PCB Laboratory Control	WEI00224-07	1	mL	Verified By: JAM		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UEI00222-15B	1	mL	Final Solvent: Hexane		
REGNT	All	Acetone	100211-B1	150	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	1:1 sulfuric acid	1260695a	5	mL			
REGNT	All	Hexane	1273340-B2	150	mL			
REGNT	All	5% Potassium Permanganate	B11275177-F	5	mL			
SOURC	All	SODIUM SULFATE	1274910	30	g			