

Wednesday, February 24, 2010

Page 2 of 2
REQUEST NUMBER: 10-2071

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD						
		1	RE15-10-8031	R	2/19/2010	
		1	RE15-10-8032	R	2/19/2010	
		1	RE15-10-8067	R	2/19/2010	

Final Page of REQUEST NUMBER 10-2071

Wednesday, February 24, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2071

LOS ALAMOS

REQUEST NUMBER: 10-2071

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/26/2010

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
RE15-10-7902	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7901	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8027	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8028	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8030	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8031	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8029	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8032	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8067	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-7901

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:		OBT3	
TIME COLLECTED(HH:MM)		08:45		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610720		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA		NO/NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		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 12 RS 01-11-10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: dark brown soil, with leaves, pine needles

FD: RE15-10-8067

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-25 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE NEG

Alpha = 5 dpm

Beta/Gamma = 1776 dpm

PID RS 2-19-10
Ambient Reading = ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy R	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/19/10 1545
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: RE15-10-7902

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	QBT3	ALLH	
TIME COLLECTED(HH:MM)		09:00		SUB-MEDIA:	TUFF 1	NA	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA	ok	
LOCATION ID:	15-610720			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	20		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	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: dark brown soil some roots, few pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-25 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 1962 dpm

RS 2-19-10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TL McFarland

RELINQUISHED BY (Printed Name) TL McFarland (Signature) Tracy M. McFarland	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sheri Newwood (Signature) Sheri Newwood	Date/Time 2/19/10 1545
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: RE15-10-8027

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA: OBT3		RS 02-19-10 SED ALLH	
TIME COLLECTED (HH:MM)		09:15		SUB-MEDIA: TUFF.1		NA	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 15-610783		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA		RS 02-19-10 SED Soil	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO/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 GAT 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: Frozen dark brown soil, some leaves, pine needles, some rock

SAMPLE COMMENTS:
NA

LOCATION DESC: 8b-13

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm
Beta/Gamma = 1859 dpmHE NEG
PID ~~Ambient~~ Reading = ppm
RS 2-19-10

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sherwood (Signature) Sherwood	Date/Time 2/19/10 1545
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: RE15-10-8028

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		09:30		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610783	↓		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		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: Wet medium brown soil, few rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-13

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 116 dpm
Beta/Gamma = 1817 dpm

RS 2-19-10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy [Signature]	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/19/10 1545
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: RE15-10-8029

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	OBT3		ALLH
TIME COLLECTED (HH:MM)		09:47		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610784		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		0.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		0.5	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		S	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 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: West sandy soil Medium brown

SAMPLE COMMENTS:
NA

LOCATION DESC: 8b-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 0 dpm
Beta/Gamma = 1596 dpm

HE negative

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

Tm 2/19/10

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>Sheri Sherwood</i>	Date/Time 2/19/10 1545
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: RE15-10-8030

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA: OBT3		ALLH	
TIME COLLECTED (HH:MM)		10:12		SUB-MEDIA: TUFF 1		NA	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 15-610784		↓		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 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: Medium brown sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

86-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm
Beta/Gamma = 1907 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \text{ppm}$ 73m 2/19/10

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy McFarland	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/19/10 1545
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: RE15-10-8031

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		10:32		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610785	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA			
BOREHOLE: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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 GAE POLY 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: moist dark brown sand with roots, rocks, pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-3

FIELD SCREENING/MEASUREMENT RESULTS:

HE NEG

Alpha = 5 dpm
Beta/Gamma = 1879 dpm

RS 02.19-10
PID $\frac{\text{Ambient}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TL McFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) <i>Sherrif Sherwood</i>	Date/Time 2/19/10 1545
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: RE15-10-8032

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		10:58		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610785		↓		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		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	normal	H3	500 ML POLY	Ice	Y	
1	normal	Met+U+CLO4+C N	1 GAL POLY liter 1/1/102C	Ice	Y	
1	normal	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	normal	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Moist Medium brown sand

FR: RE15-10-8090

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-3

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 16 dpm
Beta/Gamma = 2080 dpm

RS 02-19-10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/19/10 1545
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: RE15-10-8067

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	QBT3		AUH
TIME COLLECTED (HH:MM)		08:45		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	15-610720		FIELD QC TYPE:	ED		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO	NA			WATER FLOWING: YES/NO	NA		
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	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 1 liter 1.11.10 RC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7901

Dark brown soil, with leaves and pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-25 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 5 dpm
Beta/Gamma = 1776 dpm

HE NEG
PID $\frac{RS \text{ Ambient Reading}}{2.19.10} = \text{ppm}$

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sheri Shewood (Signature) <i>Sheri Shewood</i>	Date/Time 2/19/10 1545
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: RE15-10-8090

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	02/19/2010	MEDIA:	NA
TIME COLLECTED(HH:MM)	1140	SUB-MEDIA:	OTHER
PRS ID: 15-008(b)	OK	SAMPLE TECH CODE:	DC
LOCATION ID: UNK	15-610785	FIELD QC TYPE:	FR
LOCATION TYPE: GENERIC	OK	FIELD PREP:	UF
TOP DEPTH: 0	↓	SAMPLE USAGE:	QC
BOTTOM DEPTH: 0	↓	SCREEN/PORT DESC:	NA
FIELD MATRIX: W	↓	EXCAVATED: YES/NO/NA	NA
COMPOSITE TYPE: NA	COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA	NO
BOREHOLE: YES/NO/NA	BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA	NA

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

SAMPLE DESC: QC Sample of RE15-10-8032

SAMPLE COMMENTS:

NA
RS 02-19-10 Rinsate

LOCATION DESC: 8b-3

FIELD SCREENING/MEASUREMENT RESULTS:

RS 02-19-10 dpm NA
Alpha =
Beta/Gamma = dpmRS 02-19-10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) TLMcFarland

R Saunders

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy	Date/Time 2/19/10 1545	RECEIVED BY (Printed Name) Sherry Sherwood (Signature) Sherry Sherwood	Date/Time 2/19/10 1545
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Rad Screening Data Release Form

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

RE 15-10-8031
↓
7901
8032
8029
8030
8067
8027
8392
7902
8028

RE 15-10-8389
↓
8388
8391
8390

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

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

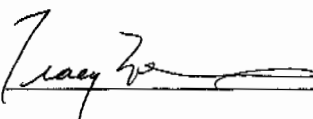
RE 15-10-8090 Rinsate

RE 15-10-8406 Rinsate

RE 15-10-8409 FTB

Reason:

.....
Print Last Name McFarland

Signature 

Date 2/19/10



133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-8534

ARS Sample Delivery Group: ARS2-10-00064
Client Sample ID: RE15-10-7901
Sample Collection Date: 02/19/10 08:45
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00064-001
Date Received: 02/22/10 00:00
Report Date: 02/22/10 23:01

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Treasor/Chem Recovery
GROSS ALPHA	12.40	19.12	32.65	19.18		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	28.49	15.99	18.12	14.42		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.05	49.02	0.16	49.02		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	18.82	10.89	2.76	10.90		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.09	0.19	0.14	0.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.57	0.36	0.09	0.36		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.26	0.38	0.43	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.64	0.41	0.15	0.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.60	0.69	0.41	0.69		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.35	0.43	0.51	0.43		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	5.48	4.43	1.71	4.61		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.03	0.23	0.13	0.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 3.54

Matthew J. Edger
Quality Assurance Review

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NELAP Certificate # E87558



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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00064

Request or PO Number:

Client Sample ID: RE15-10-7902

ARS Sample ID: ARS2-10-00064-002

Sample Collection Date: 02/19/10 09:00

Date Received: 02/22/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 23:01

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	14.33	20.43	33.91	20.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	35.33	14.46	17.73	15.09		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.05	0.18	0.15	0.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	23.69	9.67	1.62	9.69		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.02	0.04	0.15	0.04		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.02	0.04	0.09	0.04		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.63	182.36	0.41	182.36		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.11	0.53	0.16	0.53		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.79	0.46	0.39	0.46		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	-0.69	237.70	0.53	237.70		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	6.74	5.46	1.97	5.67		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.28	0.39	0.16	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 2.10										

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ARS Sample Delivery Group: ARS2-10-00064

Request or PO Number:

Client Sample ID: RE15-10-8027

ARS Sample ID: ARS2-10-00064-003

Sample Collection Date: 02/19/10 09:15

Date Received: 02/22/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 23:01

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	24.57	25.99	37.46	26.16		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	30.34	14.29	18.42	14.76		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	30.41	0.10	30.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	18.48	8.16	1.82	8.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.24	0.17	0.09	0.17		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.22	-0.94	0.28	-0.94		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.18	0.41	0.11	0.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.55	0.65	0.25	0.65		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.50	0.64	0.37	0.64		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	5.25	4.10	1.63	4.27		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.02	28.80	0.06	28.80		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 2.58										

Matthew J. Eden
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ARS Sample Delivery Group: ARS2-10-00064

Request or PO Number:

Client Sample ID: RE15-10-8028

ARS Sample ID: ARS2-10-00064-004

Sample Collection Date: 02/19/10 09:30

Date Received: 02/22/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 23:01

Analysis Description	Analysis Results	Analysis Error +/- 2s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	18.94	22.38	33.94	22.47		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	29.76	13.88	17.78	14.35		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	37.54	0.12	37.54		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	26.73	9.17	1.29	9.20		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	0.25	0.19	0.10	0.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.51	145.30	0.33	145.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.98	0.87	0.13	0.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.94	0.63	0.31	0.63		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.17	0.61	0.45	0.61		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	1.91	2.61	1.28	2.65		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.30	0.33	0.13	0.33		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.26										

Matthew J. Edley
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ARS Sample Delivery Group: AR52-10-00064

Request or PO Number:

Client Sample ID: RE15-10-8029

ARS Sample ID: AR52-10-00064-005

Sample Collection Date: 02/19/10 09:47

Date Received: 02/22/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 23:01

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	22.08	23.38	32.73	29.53		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	37.87	19.54	18.50	16.21		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	30.45	0.10	30.45		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
K-40	32.53	9.11	1.05	9.16		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-134	0.07	0.07	0.09	0.07		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
EU-152	-0.41	126.84	0.28	126.54		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
PB-212	0.93	0.37	0.11	0.37		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
RA-228	1.23	0.60	0.25	0.61		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-235	0.57	0.40	0.37	0.40		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-238	3.94	2.67	1.02	2.81		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
AM-241	-0.02	23.67	0.05	23.67		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
NOTES: % Moisture: 2.46										

Matthew A. Eden
Quality Assurance Review

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LELAP Certificate # 30658

MELAP Certificate # E87558



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ARS Sample Delivery Group: ARS2-10-00064

Request or PO Number:

Client Sample ID: RE15-10-8030

ARS Sample ID: ARS2-10-00064-006

Sample Collection Date: 02/19/10 10:12

Date Received: 02/22/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 23:02

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	51.05	32.64	33.89	33.23		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	49.06	16.71	17.91	17.75		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.05	47.03	0.15	47.03		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
K-40	15.76	7.88	1.62	7.89		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CO-60	0.09	0.19	0.16	0.19		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-134	0.05	0.10	0.11	0.10		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-137	0.33	0.27	0.09	0.27		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
EU-152	0.06	0.07	0.44	0.07		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
PB-212	1.38	0.56	0.16	0.56		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
RA-228	0.00	0.00	0.39	0.00		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-235	0.56	0.95	0.60	0.95		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-238	9.13	3.37	0.91	3.96		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
AM-241	0.74	0.43	0.12	0.44		pCi/g	EPA 901.1M	2/22/2010	ME	N/A

NOTES: % Moisture: 0.84

Matthew L. Eden
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



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

ARS Sample Delivery Group: ARS2-10-00064
Client Sample ID: RE15-10-8031
Sample Collection Date: 02/19/10 10:32
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00064-007
Date Received: 02/22/10 00:00
Report Date: 02/22/10 23:02

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDG	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	34.42	29.41	37.46	29.71		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	50.99	16.64	18.42	17.78		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	33.20	0.11	33.20		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
K-40	18.78	7.23	1.14	7.25		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-134	0.18	0.13	0.15	0.13		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-137	0.27	0.20	0.06	0.21		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
BU-152	-0.16	-0.35	0.31	-0.35		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
PB-212	1.24	0.46	0.14	0.46		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
RA-228	1.00	0.45	0.28	0.45		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-235	1.84	1.00	0.43	1.00		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-238	4.26	3.36	1.41	3.50		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
AM-241	0.54	0.35	0.11	0.36		pCi/g	EPA 901.1M	2/22/2010	ME	N/A

NOTES: % Moisture: 2.19

Matthew A. Eden
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ARS Sample Delivery Group: ARS2-10-00064
 Client Sample ID: RE19-10-8032
 Sample Collection Date: 02/19/10 10:58
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-10-00064-008
 Date Received: 02/22/10 00:00
 Report Date: 02/22/10 23:02

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracee/Chem Recovery
GROSS ALPHA	37.47	28.81	34.06	29.17		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	20.77	13.23	17.92	13.48		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	43.92	0.14	43.92		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
K-40	23.92	9.38	1.81	9.41		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CO-60	0.18	0.25	0.15	0.25		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-134	0.07	0.17	0.12	0.17		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-137	0.51	0.32	0.08	0.32		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
EU-152	0.40	0.59	0.38	0.59		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
PB-212	1.49	0.54	0.13	0.54		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
RA-228	2.15	0.95	0.37	0.95		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-235	1.19	0.84	0.46	0.84		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-238	1.72	2.97	1.49	2.99		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
AM-241	0.07	0.30	0.15	0.30		pCi/g	EPA 901.1M	2/22/2010	ME	N/A

NOTES: % Moisture: 1.41

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: ARS2-10-00064
Client Sample ID: RE15-10-8067
Sample Collection Date: 02/19/10 08:45
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00064-009
Date Received: 02/22/10 00:00
Report Date: 02/22/10 23:02

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	31.73	26.94	32.73	27.21		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	38.52	15.86	18.50	16.55		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.05	49.54	0.16	49.54		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
K-40	23.87	9.95	1.71	9.98		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CO-60	0.00	0.00	0.17	0.00		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-134	-0.06	48.16	0.11	48.16		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
CS-137	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
EU-152	-0.21	-1.12	0.48	-1.12		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
PB-212	1.34	0.52	0.10	0.52		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
RA-228	3.09	1.21	0.41	1.22		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-235	2.20	1.29	0.51	1.29		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
U-238	4.32	2.98	1.19	3.12		pCi/g	EPA 901.1M	2/22/2010	ME	N/A
AM-241	-0.04	54.02	0.12	54.02		pCi/g	EPA 901.1M	2/22/2010	ME	N/A

NOTES: % Moisture: 1.86

Matthew J. Eden
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # EB7558

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2071 VALIDATION DATE: 4/21/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Larry Fukui 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 |


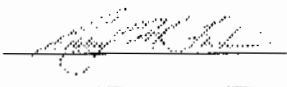
☐ OTHER (DESCRIBE):


Section II. Completeness Check

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


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

- The MS and MSD %Rs were <10% for tetryl. The associated sample results were NDs and, thus, were qualified R,HE12d. The MS %R was > the laboratory UAL for 2-amino-4,6-dinitrotoluene. The associated sample results were NDs and, thus, were not qualified. The MS/MSD RPDs were > the laboratory limit for tetryl and 2-amino-4,6-dinitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE12g. It should be noted that the MS and MSD parent sample was from another LANL RN and the raw data for the parent sample was not included in the package. No sample data were qualified as a result.
- The ICAL RRF was <0.05 but ≥ 0.01 for p-nitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE7b.
- The CCV %D was >20% but $\leq 40\%$ with a negative bias for m-nitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE7c. In the ICV and CCVs associated with the samples, the %Ds were >20% with a positive bias for 2,4,6-trinitrotoluene, PETN, HMX, and RDX. The associated sample results were NDs and, thus, were not qualified.
- The LCS %R was < the laboratory LAL but $\geq 10\%$ for tetryl. The associated sample results were NDs and, thus, were qualified UJ,HE12a. The LCS %R was > the laboratory UAL for 2,4-diamino-6-nitrotoluene. The associated sample results were NDs and, thus, were not qualified.
- It should also be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate retention time criteria could not be evaluated. No sample data were qualified as a result.


DATA VALIDATION COVER SHEET	
5122-1	Records Use only
Data Validation Cover Sheet	 Los Alamos NATIONAL LABORATORY EST. 1945
Reviewed by: Mary Donovan	Level: I
Date: 04/21/10	
VALIDATOR'S SIGNATURE: 	
DATE: 4/21/10	
Form 5122-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
<input 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	Records Use only
LC/MS/MS High Explosive Analytical Data Validation Checklist	 Los Alamos <small>NATIONAL LABORATORY</small> <small>EST. 1942</small>

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix 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: RE15-10-7902

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029001

Sample Amount 2

Moisture: 15.6

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408132a

Date Analyzed: 11-APR-10 14:00

Units: ug/kg

Cas No.	Compound		Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene		500	U
121-14-2	2,4-Dinitrotoluene		500	U
121-82-4	RDX		500	U
19406-51-0	4-Amino-2,6-dinitrotoluene		500	U
2691-41-0	HMX		500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	UJ,HE12g	500	U
479-45-8	Tetryl	R,HE12d	500	U
606-20-2	2,6-Dinitrotoluene		500	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	UJ,HE7c	500	U
99-35-4	1,3,5-Trinitrobenzene		500	U
99-65-0	m-Dinitrobenzene		500	U
99-99-0	p-Nitrotoluene	UJ,HE7b	500	U

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7902

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029001

Sample Amount 2

Moisture: 15.6

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120057.wiff

Date Analyzed: 13-MAR-10 06:40

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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7901

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029002

Sample Amount 2

Moisture: 34.7

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408136a

Date Analyzed: 11-APR-10 15:58

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	UJ,HE12g	U
479-45-8	Tetryl	R,HE12d	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b	U

*Concentration =

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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7901

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029002

Sample Amount 2

Moisture: 34.7

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120058.wiff

Date Analyzed: 13-MAR-10 06:56

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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8027

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029003

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408137a

Date Analyzed: 11-APR-10 16:27

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-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	UJ,HE12g	U
479-45-8	Tetryl	R,HE12d	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b	U

*Concentration =

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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8027

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120059.wiff

Date Analyzed: 13-MAR-10 07:11

Units: ug/kg

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

*Concentration =

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

LMF
4/21/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8028

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408138a

Date Analyzed: 11-APR-10 16:57

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-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	UJ,HE12g	U
479-45-8	Tetryl	R,HE12d	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b	U

*Concentration =

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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8028

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120060.wiff

Date Analyzed: 13-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

LMF
4/21/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8030

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408139a

Date Analyzed: 11-APR-10 17:26

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	UJ,HE12g	U
479-45-8	Tetryl	R,HE12d	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b	U

*Concentration =

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

LMF
4/21/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8030

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 258253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120061.wiff

Date Analyzed: 13-MAR-10 07:43

Units: ug/kg

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

*Concentration =

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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8031

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029006

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408140a

Date Analyzed: 11-APR-10 17:56

Units: ug/kg

Cas No.	Compound	Concentration*	Q	
118-96-7	2,4,6-Trinitrotoluene	500	U	
121-14-2	2,4-Dinitrotoluene	500	U	
121-82-4	RDX	500	U	
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U	
2691-41-0	HMX	500	U	
35572-78-2	2-Amino-4,6-dinitrotoluene	UJ,HE12g	500	U
479-45-8	Tetryl	R,HE12d	500	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8031

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120062.wiff

Date Analyzed: 13-MAR-10 07:58

Units: ug/kg

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

*Concentration =

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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8029

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408141a

Date Analyzed: 11-APR-10 18:25

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	UJ,HE12g	U
479-45-8	Tetryl	R,HE12d	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b	U

*Concentration =

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

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4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8029

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120066.wiff

Date Analyzed: 13-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

LMF
4/21/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8032

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408142a

Date Analyzed: 11-APR-10 18:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q	
118-96-7	2,4,6-Trinitrotoluene	500	U	
121-14-2	2,4-Dinitrotoluene	500	U	
121-82-4	RDX	500	U	
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U	
2691-41-0	HMX	500	U	
35572-78-2	2-Amino-4,6-dinitrotoluene	UJ,HE12g	500	U
479-45-8	Tetryl	R,HE12d	500	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	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

LMF
4/21/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8032

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120067.wiff

Date Analyzed: 13-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

LMF
4/21/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8067

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029009

Sample Amount 2

Moisture: 17.9

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408143a

Date Analyzed: 11-APR-10 19:24

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	UJ,HE12g	U
479-45-8	Tetryl	R,HE12d	U
606-20-2	2,6-Dinitrotoluene	500	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	UJ,HE7c	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b	U

*Concentration =

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

LMF
4/21/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8067

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029009

Sample Amount 2

Moisture: 17.9

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120068.wiff

Date Analyzed: 13-MAR-10 09:33

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

LMF
4/21/10

DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2071 VALIDATION DATE: 4/21/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Larry Fukui 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 | | | |

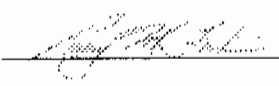
Section II. Completeness Check

- | 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: Mary Donovan Level: I Date: 04/21/10

VALIDATOR'S SIGNATURE: 

DATE: 4/21/10

**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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The breakdown criteria have been exceeded. This can cause high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.	UJ, P13a	J+, P13a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The breakdown documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P13b	R, P13b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, P4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X.	N/A	J, P4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P4e	R, P4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P0b	R, P0b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The surrogate is $<10\%R$. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3

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

5116-2

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

Records Use only



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

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-2071
Lab Sample ID: 248029002Date Collected: 02/19/2010 12:00
Date Received: 02/25/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.18 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 34.7
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	5.07	ug/kg	1.69	5.07	1
11104-28-2	Aroclor-1221	U	5.07	ug/kg	1.69	5.07	1
11141-16-5	Aroclor-1232	U	5.07	ug/kg	1.69	5.07	1
53469-21-9	Aroclor-1242	U	5.07	ug/kg	1.69	5.07	1
12672-29-6	Aroclor-1248	U	5.07	ug/kg	1.69	5.07	1
11097-69-1	Aroclor-1254	U	5.07	ug/kg	1.69	5.07	1
11096-82-5	Aroclor-1260	U	5.07	ug/kg	1.69	5.07	1

LMF
4/21/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2071
Lab Sample ID: 248029001

Date Collected: 02/19/2010 12:00
Date Received: 02/25/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YSI
Aliquot: 30.12 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 15.6
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	3.93	ug/kg	1.31	3.93	1
11104-28-2	Aroclor-1221	U	3.93	ug/kg	1.31	3.93	1
11141-16-5	Aroclor-1232	U	3.93	ug/kg	1.31	3.93	1
53469-21-9	Aroclor-1242	U	3.93	ug/kg	1.31	3.93	1
12672-29-6	Aroclor-1248	U	3.93	ug/kg	1.31	3.93	1
11097-69-1	Aroclor-1254		8.30	ug/kg	1.31	3.93	1
11096-82-5	Aroclor-1260		5.30	ug/kg	1.31	3.93	1

LMF
4/21/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2071
Lab Sample ID: 248029009

Client ID: RE15-10-8067
Batch ID: 961047
Run Date: 03/05/2010 20:00
Prep Date: 03/04/2010 22:58
Data File: 071f7101.d
071b7101.d

Date Collected: 02/19/2010 12:00
Date Received: 02/25/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.11 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 17.9
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	4.05	ug/kg	1.35	4.05	1
11104-28-2	Aroclor-1221	U	4.05	ug/kg	1.35	4.05	1
11141-16-5	Aroclor-1232	U	4.05	ug/kg	1.35	4.05	1
53469-21-9	Aroclor-1242	U	4.05	ug/kg	1.35	4.05	1
12672-29-6	Aroclor-1248	U	4.05	ug/kg	1.35	4.05	1
11097-69-1	Aroclor-1254	U	4.05	ug/kg	1.35	4.05	1
11096-82-5	Aroclor-1260	U	4.05	ug/kg	1.35	4.05	1

LMF
4/21/10

Wednesday, February 24, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2071

LOS ALAMOS

REQUEST NUMBER: 10-2071

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/26/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248029/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7902	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7901	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8027	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8028	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8030	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8031	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8029	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8032	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8087	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

2/24/10 1400

Printed Name

Signature

Greg Tyler 2-25-10 0845

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 24, 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: 10-2071

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/24/2010

TURNAROUND/REPORT DUE: 3/26/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE15-10-7901	R	2/19/2010	
		1	RE15-10-7902	R	2/19/2010	
		1	RE15-10-8067	R	2/19/2010	
		1	RE15-10-7901	R	2/19/2010	
		1	RE15-10-7902	R	2/19/2010	
		1	RE15-10-8027	R	2/19/2010	
		1	RE15-10-8028	R	2/19/2010	
		1	RE15-10-8029	R	2/19/2010	
	SW-846-8321A_MOD	1	RE15-10-8030	R	2/19/2010	

REQUEST NUMBER: 10-2071

Wednesday, February 24, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8031	R	2/19/2010	
		1	RE15-10-8032	R	2/19/2010	
		1	RE15-10-8067	R	2/19/2010	

Final Page of REQUEST NUMBER 10-2071



March 03, 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: 248029
SDG: 10-2071

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 25, 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: 10-2071
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 248029
SDG: 10-2071

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Quality Control Data.....	547
Miscellaneous Data.....	562

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 248029
SDG # : 10-2071**

March 03, 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 25, 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>
248029001	RE15-10-7902
248029002	RE15-10-7901
248029003	RE15-10-8027
248029004	RE15-10-8028
248029005	RE15-10-8030
248029006	RE15-10-8031
248029007	RE15-10-8029
248029008	RE15-10-8032
248029009	RE15-10-8067

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 03 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

Wednesday, February 24, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2071

LOS ALAMOS

REQUEST NUMBER: 10-2071

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/26/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248029/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7902	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7901	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8027	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8028	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8030	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8031	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8029	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8032	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8067	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

2/24/10 1400

Printed Name

Signature

Greg Tyler

Greg Tyler

2-25-10 0845

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date Time

Remarks:

Printed Name

Signature

Wednesday, February 24, 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: 2/24/2010

TURNAROUND/REPORT DUE: 3/26/2010

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: 10-2071
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Page 1 of 2
REQUEST NUMBER: 10-2071

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7901	R	2/19/2010	
		1	RE15-10-7902	R	2/19/2010	
		1	RE15-10-8067	R	2/19/2010	
	SW-846:8321A_MOD	1	RE15-10-7901	R	2/19/2010	
		1	RE15-10-7902	R	2/19/2010	
		1	RE15-10-8027	R	2/19/2010	
		1	RE15-10-8028	R	2/19/2010	
		1	RE15-10-8029	R	2/19/2010	
		1	RE15-10-8030	R	2/19/2010	

Wednesday, February 24, 2010

REQUEST NUMBER: 10-2071

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.8321A_MOD	1	RE15-10-8031	R	2/19/2010	
		1	RE15-10-8032	R	2/19/2010	
		1	RE15-10-8067	R	2/19/2010	

Final Page of REQUEST NUMBER 10-2071



SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-2071	
Received By: Greg Tyler		Date Received: 2/25/10	
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*: 80cpm
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 0-6C 12-14C
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers:

7209 7850 1919 0C 7209 7850 1882 2C 7209 7850 1941 3C 7209 7850 2010 5C 7209 7850 2098 13C
 7209 7850 2146 1C 7209 7850 2076 2C 7209 7850 2043 3C 7209 7850 2157 6C 7209 7850 1908 14C
 7209 7850 1952 1C 7209 7850 2065 2C 7209 7850 2238 3C 7209 7850 1871 12C
 7209 7850 2054 1C 7209 7850 1996 3C 7209 7850 2124 3C 7209 7850 1893 12C
 7209 7850 1963 1C 7209 7850 2135 3C 7209 7850 1974 4C 7209 7850 1849 12C
 7209 7850 2021 2C 7209 7850 2032 3C 7209 7850 1985 4C 7209 7850 1838 13C
 7209 7850 2113 2C 7209 7850 2249 3C 7209 7850 2000 4C 7209 7850 1860 13C
 7209 7850 2102 2C 7209 7850 2168 3C 7209 7850 2087 4C 7209 7850 1850 13C

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
ACTWGT: 49.0 LB MAX
CAD: 0014176/CAFE

BILL SENDER

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
ACTWGT: 63.0 LB MAX
CAD: 0014176/CAFE2460

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A0532VA00

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A015AGWMO

FedEx

FedEx
Express



2 of 2
SH# 7209 7850 1919
TRM 7209 7850 1908 (0201)

THU - 25FEB
PRIORITY OVERNIGHT

29

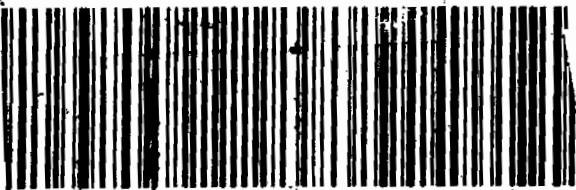
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2 of 2
MPSH# 7209 7850 2146
Matr# 7209 7850 2135 (0201)

THU - 25FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05528E00

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A015AGWMO

FedEx
Express

FedEx
Express



2 of 3
SH# 7209 7850 1952
TRM 7209 7850 1941 (0201)

THU - 25FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

1 of 2
TRM# 7209 7850 2054
MM MASTER MM

THU - 25FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
1A00 BLDG 1237 DPU 03

SHIP DATE: 24FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

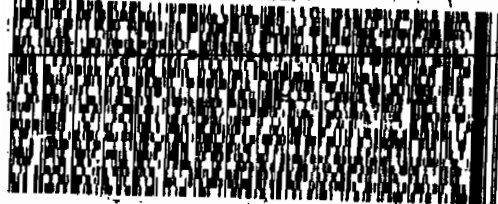
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LERIE DAVIS
GENERAL ENGINEERING LAB
40 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

1 of 3



FedEx
Express



3 of 3
7209 7850 1963

THU - 25FEB A1
PRIORITY OVERNIGHT

7209 7850 1941 0201

CHSA

29407
SC-US
CHS



LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

LERIE DAVIS
GENERAL ENGINEERING LAB
40 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A015AGWMO

1 of 2



FedEx
Express



1 of 2
7209 7850 2113

THU - 25FEB A1
PRIORITY OVERNIGHT

MASTER NH

CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
1A00 BLDG 1237 DPU 03

SHIP DATE: 24FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

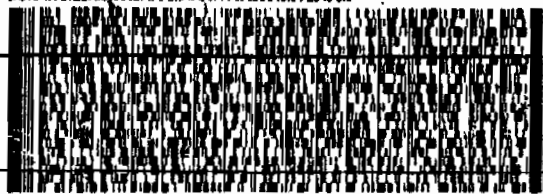
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR2A0515BYDO

2 of 2



FedEx
Express

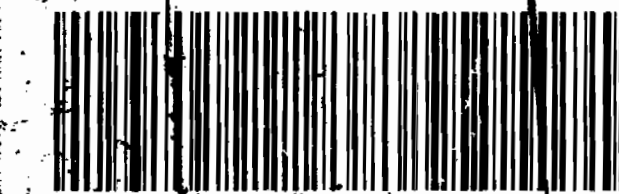


TRKH
0201 7209 7850 2021

THU - 25FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

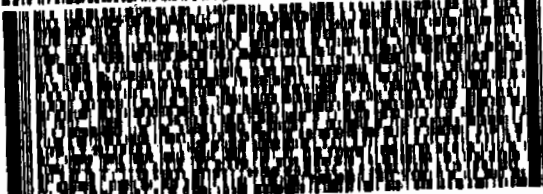


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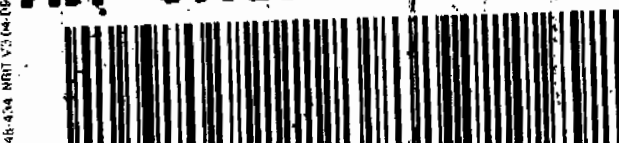
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ACTWGT: 55.0 LB MAN
CAQ: 0014176/CAFE2450

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UNITED STATES US

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PRIORITY OVERNIGHT

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

SHIP DATE: 24FEB10
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
ACTWGT: 55.0 LB MAN
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THU - 25FEB A1
PRIORITY OVERNIGHT

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

SHIP DATE: 24FEB10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2450
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LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
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ORIGIN ID: SAFA (605) 665-9968
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UNITED STATES US

ACTWGT: 51.0 LB MAN
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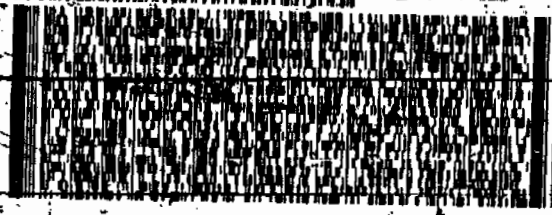
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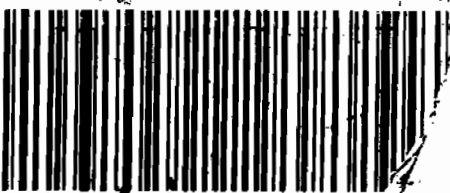
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JOYLENE VALDEZ
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LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 55.0 LB MAN
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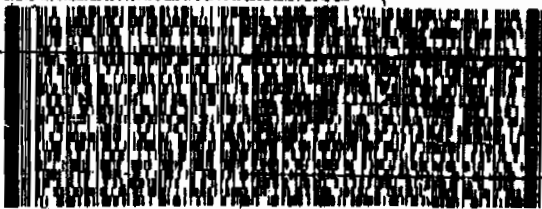
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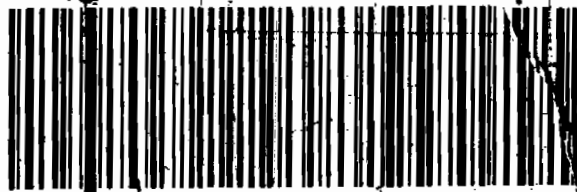


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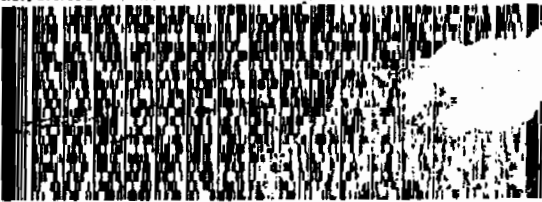
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UNITED STATES US

SHIP DATE: 24FEB10
ACTWGT: 56.0 LB MAN
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UNITED STATES US

SHIP DATE: 24FEB10
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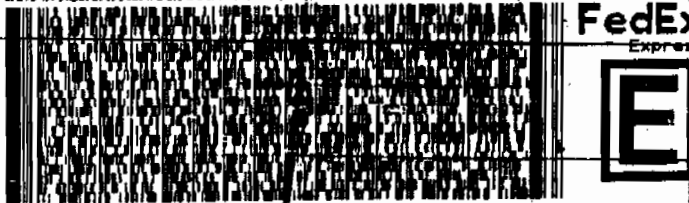
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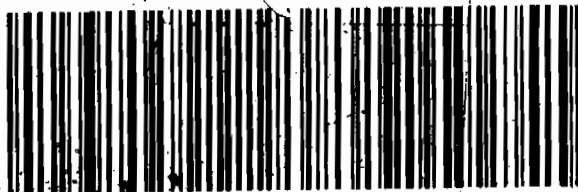


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ORIGIN ID: SAFA (505) 665-9968
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SHIP DATE: 24FEB10
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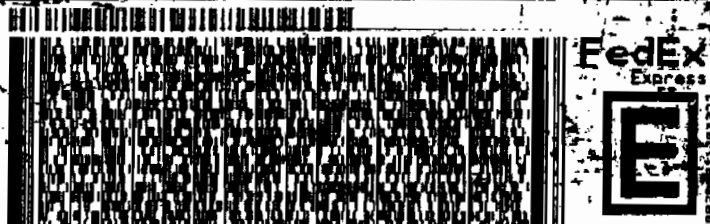
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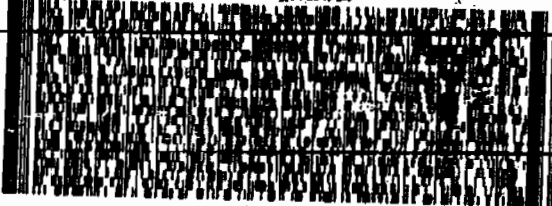
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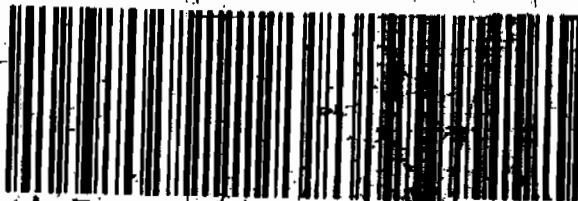
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TA00 BLDG 1237 DPU 03

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SHIP DATE: 24FEB10
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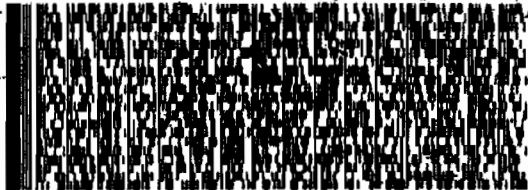
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Data Review Qualifier Flag Definition Sheet

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 10-2071**

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: 958257

Prep Batch Number: 958253

Sample Analysis

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

Sample ID	Client ID
248029001	RE15-10-7902
248029002	RE15-10-7901
248029003	RE15-10-8027
248029004	RE15-10-8028
248029005	RE15-10-8030
248029006	RE15-10-8031
248029007	RE15-10-8029
248029008	RE15-10-8032
248029009	RE15-10-8067
1202055028	Method Blank (MB)
1202055031	Laboratory Control Sample (LCS)
1202055029	248027002(RE15-10-8389) Matrix Spike (MS)
1202055030	248027002(RE15-10-8389) 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 22.9% with limits of 51-112%. While Tetryl did not meet in-house recovery limits, it did meet the DOD QSM limits of 10-150%. The data are reported. Please see data exception report 816254.

QC Sample Designation

Client sample 248027002 (RE15-10-8389) from SDG 10-2068 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recovered Tetryl at 1.94% with limits of 36-124% and 2-Amino-4,6-dinitrotoluene at 144% with limits of 85-137%. Since all other spike recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported. Please see data exception report 816254.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered Tetryl at 7.44%. The recovery limits are 36-124%. Since all other spike recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 816254.

MS/MSD Relative Percent Difference (RPD) Statement

The MS/MSD RPD for Tetryl was 117% and for 2-Amino-4,6-dinitrotoluene was 35.0%. The acceptance limits are 0-30%, respectively. Since all other RPD recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported. Please see data exception report 816254.

Internal Standard (ISTD) Acceptance

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

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

Sample Re-extraction/Re-analysis

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

Secondary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS recovered 2,4-Diamino-6-nitrotoluene at 121% with limits of 52-114%. While the LCS exhibited a high bias, both the MS and MSD met acceptance limits for 2,4-Diamino-6-nitrotoluene. 2,4-Diamino-6-nitrotoluene was not detected in the associated samples. The data are reported. Please see data exception report 816254.

QC Sample Designation

Client sample 248027002 (RE15-10-8389) from SDG 10-2068 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

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 816254 was generated for this SDG.

The LCS recovered Tetryl at 22.9% with limits of 51-112%. The LCS recovered 2,4-Diamino-6-nitrotoluene at 121% with limits of 52-114%. While Tetryl did not meet in-house recovery limits, it did meet the DOD QSM limits of 10-150%. While the LCS exhibited a high bias, both the MS and MSD met acceptance limits for 2,4-Diamino-6-nitrotoluene. 2,4-Diamino-6-nitrotoluene was not detected in the associated samples. The data are reported.

The MS recovered Tetryl at 1.94% with limits of 36-124% and 2-Amino-4,6-dinitrotoluene at 144% with limits of 85-137%. Since all other spike recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported.

The MSD recovered Tetryl at 7.44%. The recovery limits are 36-124%. Since all other spike recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported.

The MS/MSD RPD for Tetryl was 117% and for 2-Amino-4,6-dinitrotoluene was 35.0%. The acceptance limits are 0-30%, respectively. Since all other RPD recoveries met acceptance criteria, the noted exceptions are 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: Herbert M. Mauer Date: 04/13/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7902

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029001

Sample Amount 2

Moisture: 15.6

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408132a

Date Analyzed: 11-APR-10 14:00

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7902

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029001

Sample Amount 2

Moisture: 15.6

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120057.wiff

Date Analyzed: 13-MAR-10 06:40

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: RE15-10-7901

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029002

Sample Amount 2

Moisture: 34.7

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408136a

Date Analyzed: 11-APR-10 15:58

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7901

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029002

Sample Amount 2

Moisture: 34.7

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120058.wiff

Date Analyzed: 13-MAR-10 06:56

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: RE15-10-8027

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408137a

Date Analyzed: 11-APR-10 16:27

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-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		Concentrated Extract Volume		Dilution
Value	X	Sample Amount	X	Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8027

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120059.wiff

Date Analyzed: 13-MAR-10 07:11

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8028

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408138a

Date Analyzed: 11-APR-10 16:57

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8028

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120060.wiff

Date Analyzed: 13-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: RE15-10-8030

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408139a

Date Analyzed: 11-APR-10 17:26

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8030

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120061.wiff

Date Analyzed: 13-MAR-10 07:43

Units: ug/kg

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

*Concentration =

Instrument		X	Concentrated Extract Volume		X	Dilution
Value			Sample Amoun			Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8031

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408140a

Date Analyzed: 11-APR-10 17:56

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8031

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120062.wiff

Date Analyzed: 13-MAR-10 07:58

Units: ug/kg

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

*Concentration =

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: RE15-10-8029

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408141a

Date Analyzed: 11-APR-10 18:25

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: RE15-10-8029

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120066.wiff

Date Analyzed: 13-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: RE15-10-8032

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408142a

Date Analyzed: 11-APR-10 18:55

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8032

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120067.wiff

Date Analyzed: 13-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: RE15-10-8067

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029009

Sample Amount 2

Moisture: 17.9

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408143a

Date Analyzed: 11-APR-10 19:24

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: RE15-10-8067

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029009

Sample Amount 2

Moisture: 17.9

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120068.wiff

Date Analyzed: 13-MAR-10 09:33

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): 10-2071

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
248029001	RE15-10-7902	110	70 - 144	
248029001	RE15-10-7902	110	70 - 144	
248029002	RE15-10-7901	104	70 - 144	
248029002	RE15-10-7901	109	70 - 144	
248029003	RE15-10-8027	108	70 - 144	
248029003	RE15-10-8027	114	70 - 144	
248029004	RE15-10-8028	112	70 - 144	
248029004	RE15-10-8028	115	70 - 144	
248029005	RE15-10-8030	104	70 - 144	
248029005	RE15-10-8030	117	70 - 144	
248029006	RE15-10-8031	101	70 - 144	
248029006	RE15-10-8031	109	70 - 144	
248029007	RE15-10-8029	93.9	70 - 144	
248029007	RE15-10-8029	108	70 - 144	
248029008	RE15-10-8032	102	70 - 144	
248029008	RE15-10-8032	112	70 - 144	
248029009	RE15-10-8067	102	70 - 144	
248029009	RE15-10-8067	108	70 - 144	
1202055028	MB for batch 958253	102	70 - 144	
1202055028	MB for batch 958253	108	70 - 144	
1202055031	LCS for batch 958253	101	70 - 144	
1202055031	LCS for batch 958253	106	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) 10-2071

Extract Batch Code: 958253

Date Extracted: 02-MAR-10

GEL LCS ID: 1202055031

GEL LCSDUP ID:

Analysis Date/Time: 11-APR-10 10:04

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-Dinitrotoluene	5000	4640	92.8								87 – 137
2,6-Dinitrotoluene	5000	4740	94.7								89 – 120
2-Amino-4,6-dinitrotoluene	5000	5030	101								90 – 130
4-Amino-2,6-dinitrotoluene	5000	4710	94.2								84 – 130
HMX	5000	4800	96								58 – 138
Nitrobenzene	5000	4070	81.4								71 – 122
2,4,6-Trinitrotoluene	5000	4790	95.8								73 – 149
1,3,5-Trinitrobenzene	5000	3790	75.7								69 – 126
PETN	5000	5330	107								64 – 137
RDX	5000	5050	101								81 – 137
Tetryl	5000	1150	22.9	*							51 – 112
m-Dinitrobenzene	5000	4770	95.4								83 – 122
m-Nitrotoluene	5000	3760	75.2								73 – 118
o-Nitrotoluene	5000	3970	79.4								72 – 119
p-Nitrotoluene	5000	4010	80.1								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) 10-2071

Extract Batch Code: 958253

Date Extracted: 02-MAR-10

GEL LCS ID: 1202055031

GEL LCSDUP ID:

Analysis Date/Time: 13-MAR-10 03:47

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	6060	121 *					52 - 114
2,6-Diamino-4-nitrotoluene	5000	6100	122					64 - 122
3,5-Dinitroaniline	5000	5340	107					70 - 127
tris(o-cresyl) phosphate	5000	5370	107					84 - 119
TATB	7500	5810	77.5					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: RE15-10-8389

Lab Code: GEL

GEL Job No (SDG) 10-2071

Extract Batch Code: 958253

Date Extracted: 02-MAR-10

GEL Spike ID: 1202055029

GEL SpikeDup ID: 1202055030

Analysis Date/Time: 11-APR-10 11:03

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
1,3,5-Trinitrobenzene	5000	0	3410	68.1	3690	73.7	7.89	30	50 – 140
2,4,6-Trinitrotoluene	5000	0	4510	90.1	5110	102	12.6	30	76 – 144
2,4-Dinitrotoluene	5000	0	5160	103	4890	97.8	5.27	30	86 – 135
2,6-Dinitrotoluene	5000	0	4920	98.3	5300	106	7.62	30	90 – 118
2-Amino-4,6-dinitrotoluene	5000	0	7180	144 *	5050	101	35 *	30	85 – 137
4-Amino-2,6-dinitrotoluene	5000	0	5220	104	5100	102	2.26	30	72 – 143
HMX	5000	0	4950	99	6030	121	19.6	30	51 – 144
Nitrobenzene	5000	0	4350	86.9	4260	85.2	2.06	30	70 – 122
PETN	5000	0	5310	106	4990	99.8	6.28	30	60 – 140
RDX	5000	0	5870	117	5710	114	2.62	30	59 – 152
Tetryl	5000	0	96.8	1.94 *	372	7.44 *	117 *	30	36 – 124
m-Dinitrobenzene	5000	0	4960	99.1	4820	96.5	2.69	30	85 – 118
m-Nitrotoluene	5000	0	4630	92.6	4430	88.7	4.3	30	70 – 120
o-Nitrotoluene	5000	0	4070	81.5	4650	93.1	13.3	30	69 – 123
p-Nitrotoluene	5000	0	5150	103	4510	90.1	13.3	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: RE15-10-8389

Lab Code: GEL

GEL Job No (SDG) 10-2071

Extract Batch Code: 958253

Date Extracted: 02-MAR-10

GEL Spike ID: 1202055029

GEL SpikeDup ID: 1202055030

Analysis Date/Time: 13-MAR-10 04:18

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	5460	109	5700	114	4.3	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	5690	114	5960	119	4.64	30	55 - 130
3,5-Dinitroaniline	5000	0	5430	109	5350	107	1.48	30	73 - 129
tris(o-cresyl) phosphate	5000	0	5340	107	5290	106	.941	30	72 - 127
TATB	7500	0	5910	78.8	5800	77.3	1.88	30	29 - 155

#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): 10-2071

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)
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	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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 1 of 51

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qtd, 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

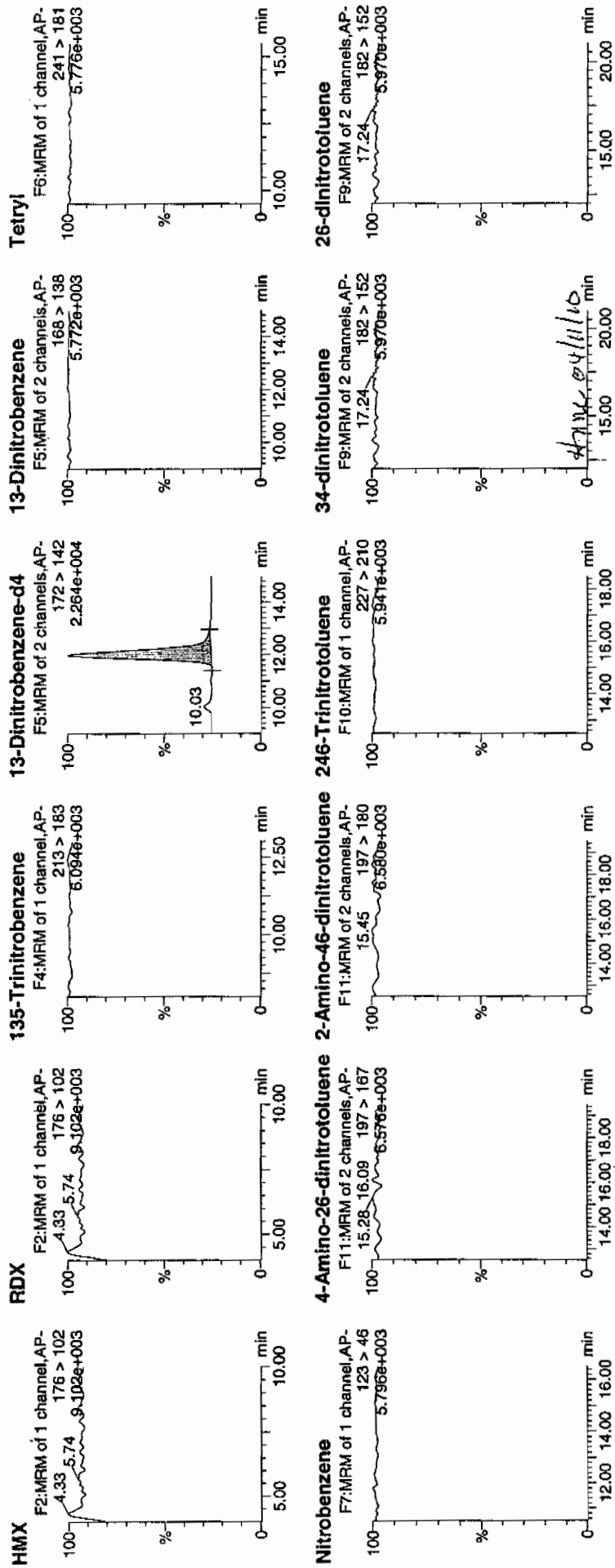
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Date: 08-Apr-2010

Time: 21:32:51

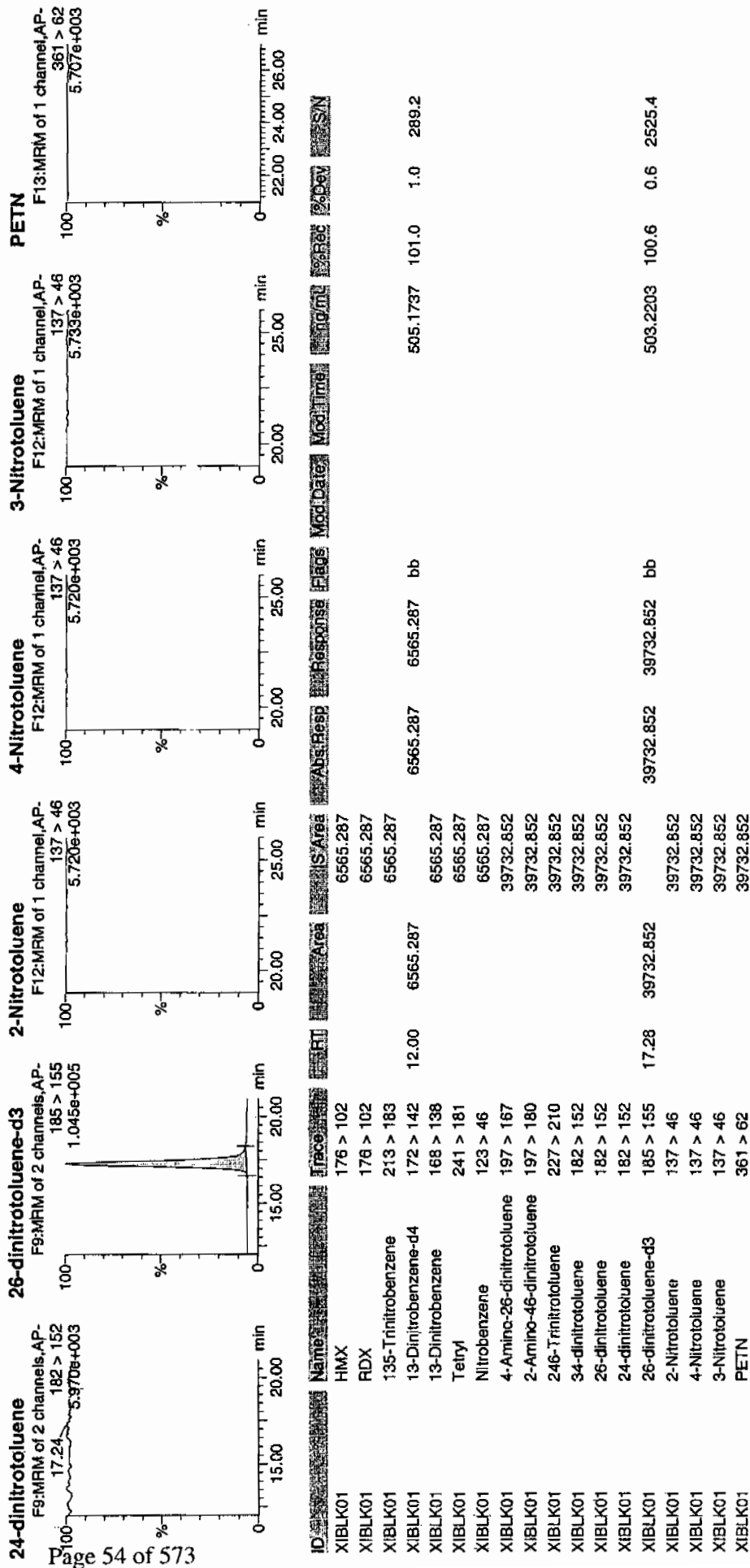
ID: XIBLK01

Vial: 1:1,A



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



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

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

Printed: Fri Apr 09 10:56:07 2010, Page 3 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\EXP0408002a

Date: 08-Apr-2010

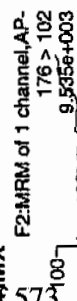
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ID: XIBLK01

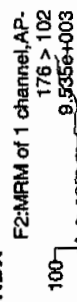
Vial: 1:1,A

100%
10.03

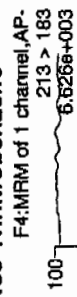
9.5356e+003



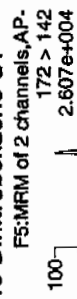
RDX



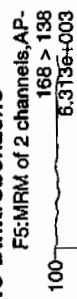
135-Trinitrobenzene



13-Dinitrobenzene-d4



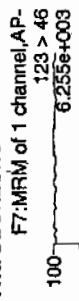
13-Dinitrobenzene



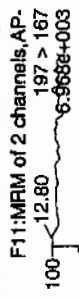
Tetryl



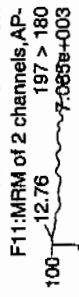
Nitrobenzene



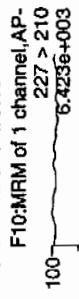
4-Amino-26-dinitrotoluene



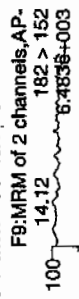
2-Amino-46-dinitrotoluene



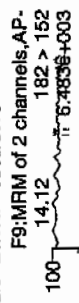
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

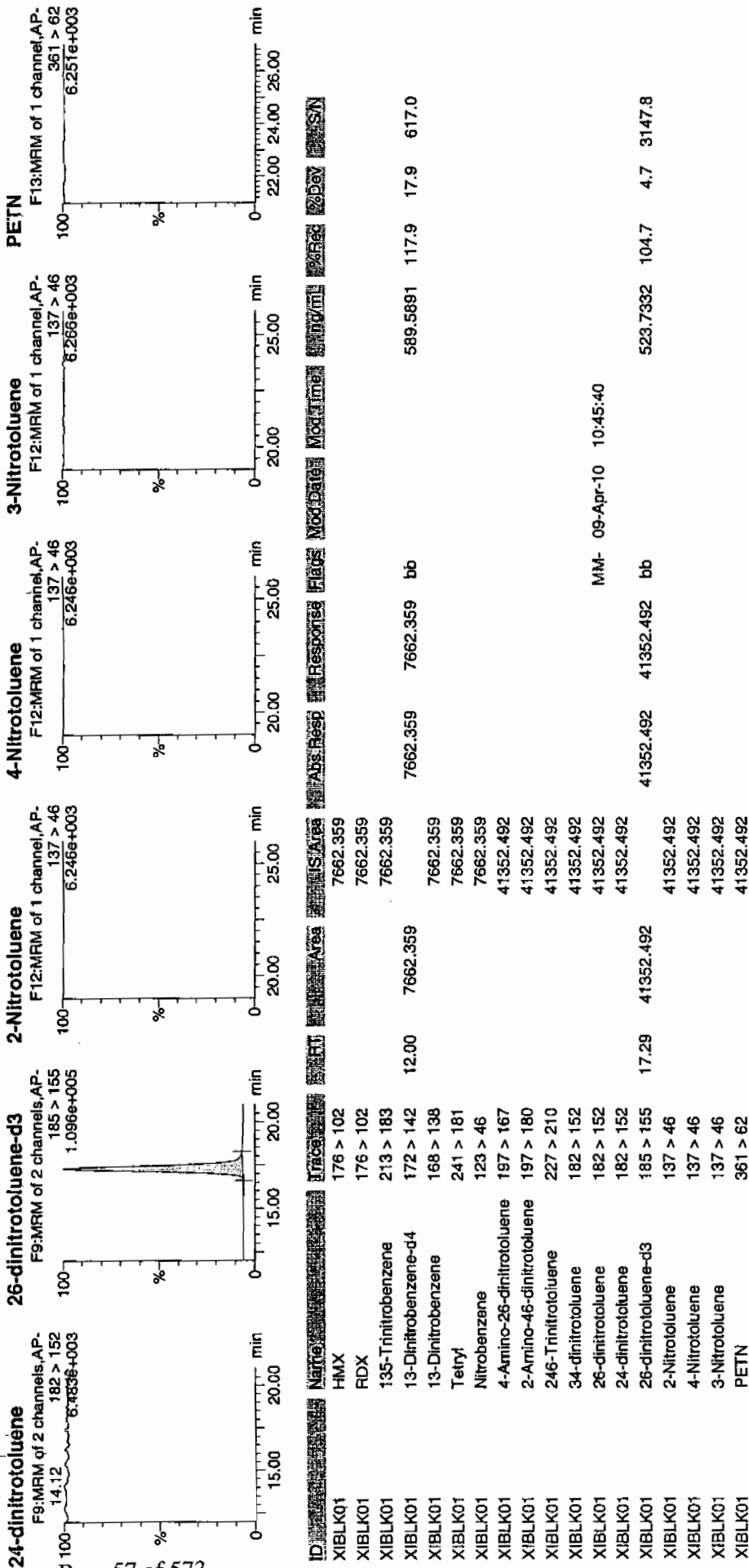


Quantify Sample Report

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): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-MAR-10 16:00

GEL Data File: EXS03120001.wiff

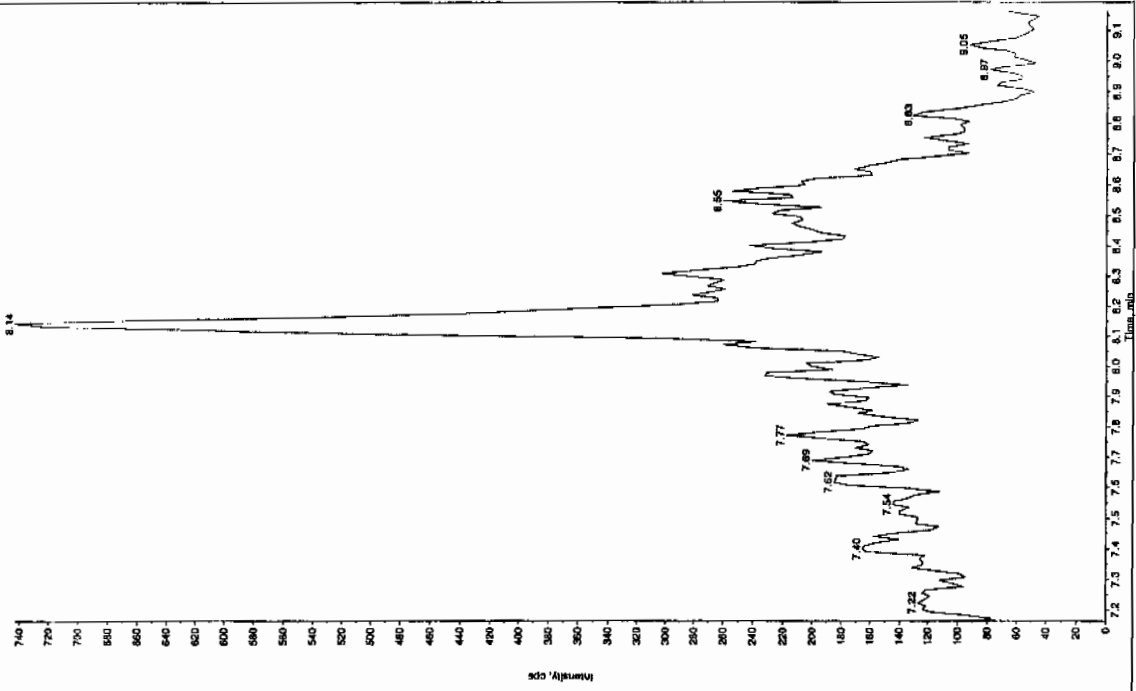
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.1
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

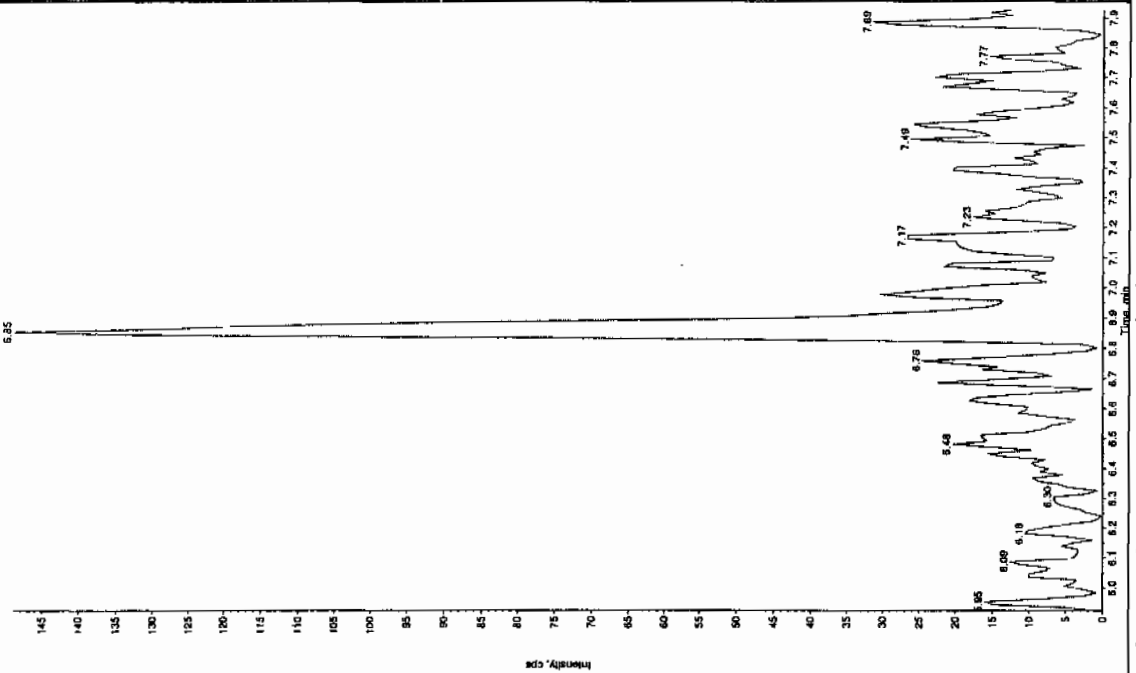
John 3/10/10

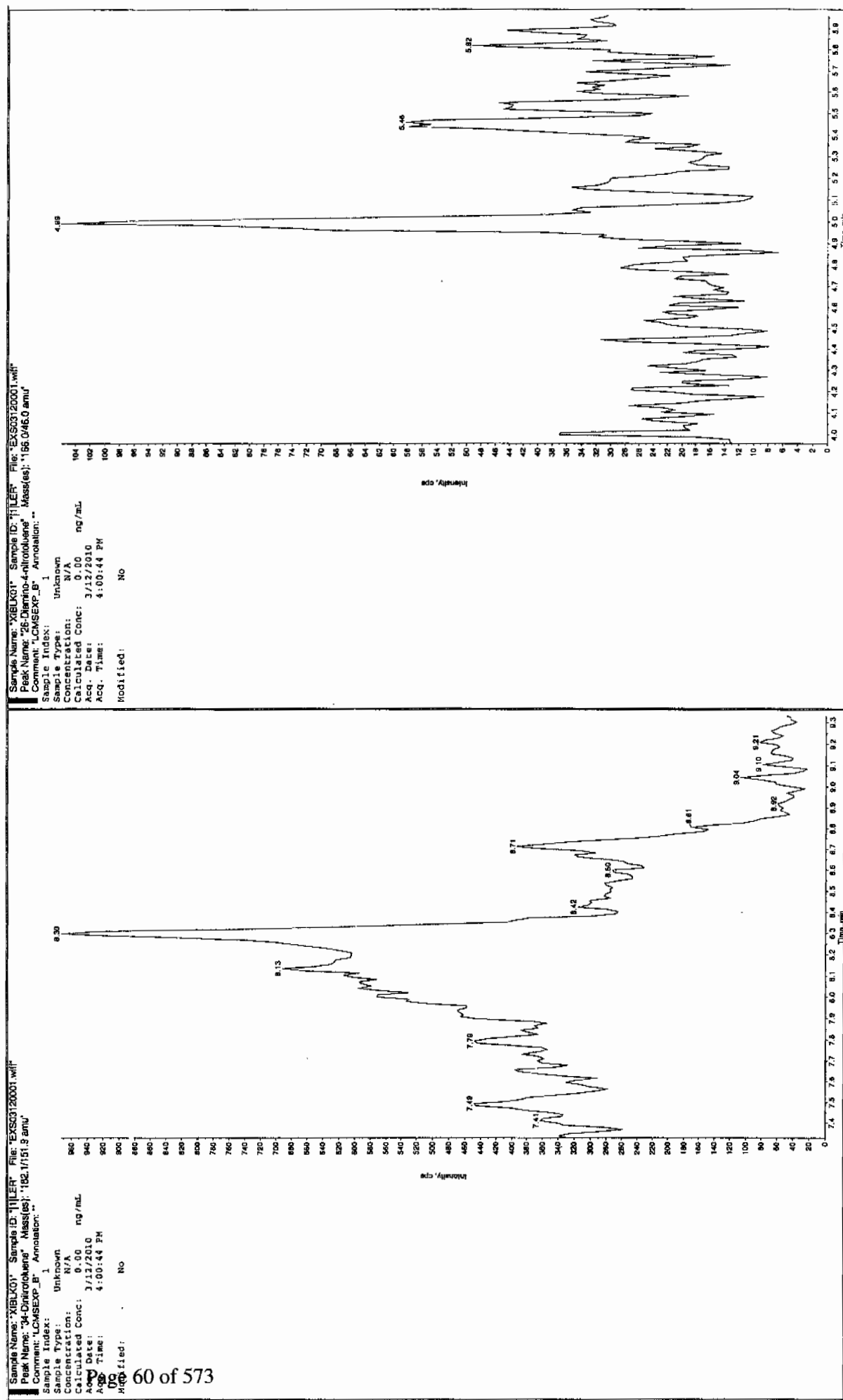
Sample Name: "XBLK01" Sample ID: "T1LER" File: "EXS03120001.wiff"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMS-EXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 4:00:44 PM
 Modified: No



John 3/17/10

Sample Name: "XBLK01" Sample ID: "T1LER" File: "EXS03120001.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: 3/12/2010
 Acq. Time: 4:00:44 PM
 Modified: No

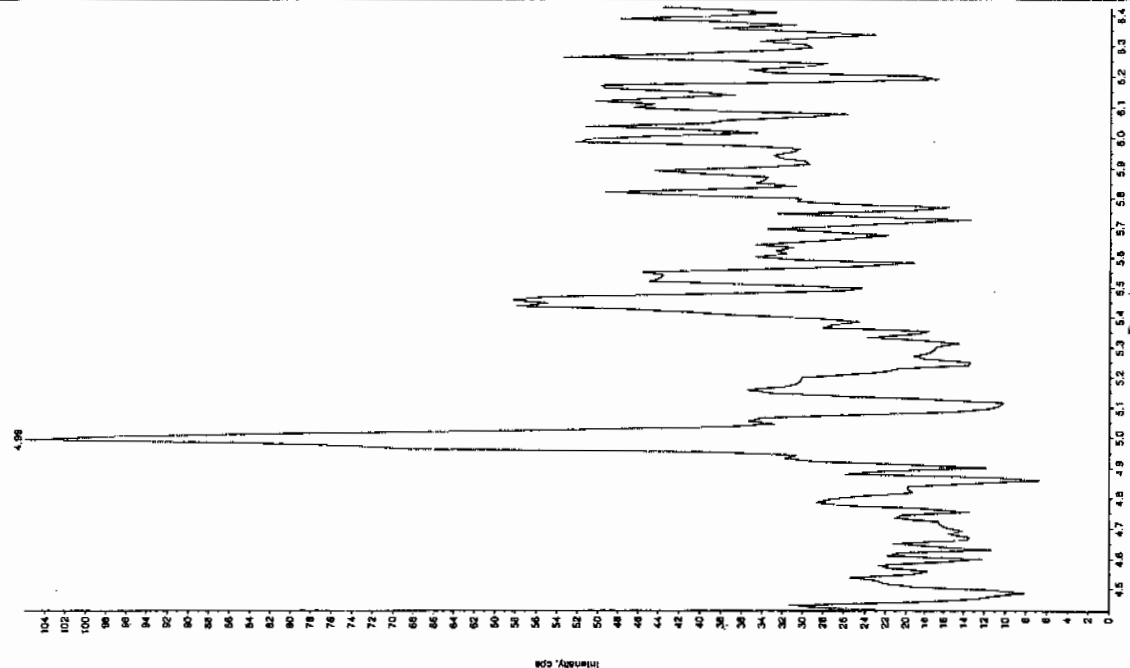




Sample Name: "XBLK01" Sample ID: "11LER" File: "EX503120001.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

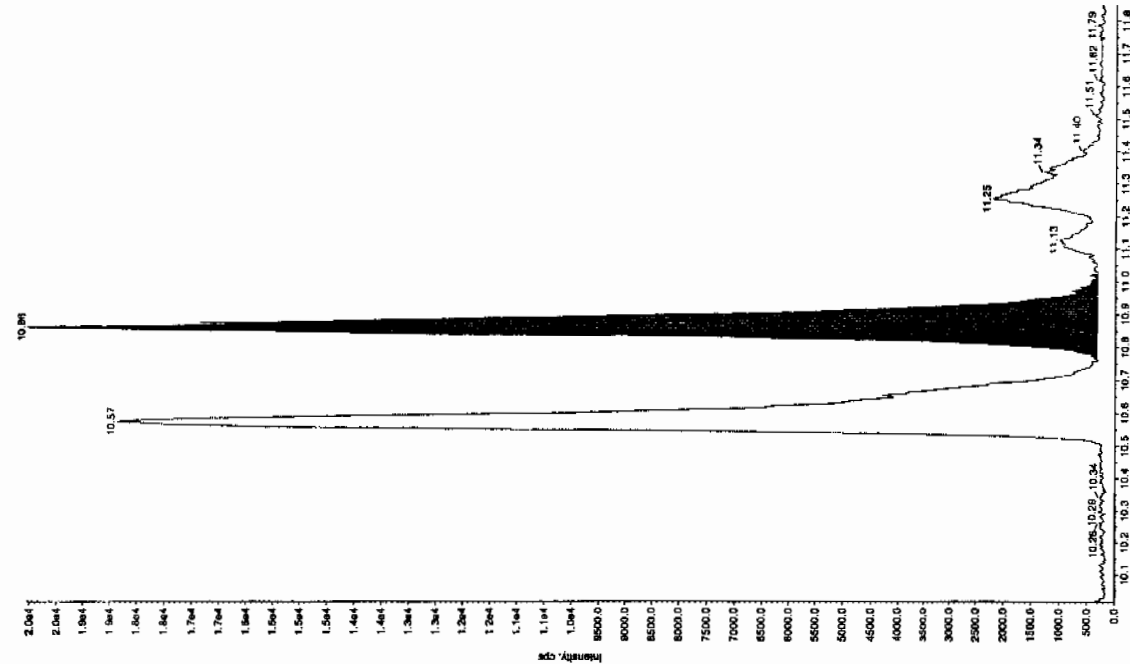
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 4:00:44 PM
 Modified: No

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Sample Name: "XBLK01" Sample ID: "11LER" File: "EX503120001.wif"
 Peak Name: "11-(p-cresyl) phosphoric acid" Mass(es): "389.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.10 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 4:00:44 PM
 Modified: No
 Proc. algorithm: IntelliQuan - ICA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.71e+004 counts
 Height: 19734.323 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-MAR-10 16:16

GEL Data File: EXS03120002.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

Jan 31/10/10

Sample Name: "XBLX01" Sample ID: "J1LER" File: "EX50312002.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

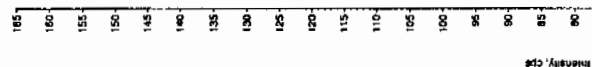
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 4:16:31 PM

Modified: No



Sample Name: "XBLX01" Sample ID: "J1LER" File: "EX50312002.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: 3/12/2010

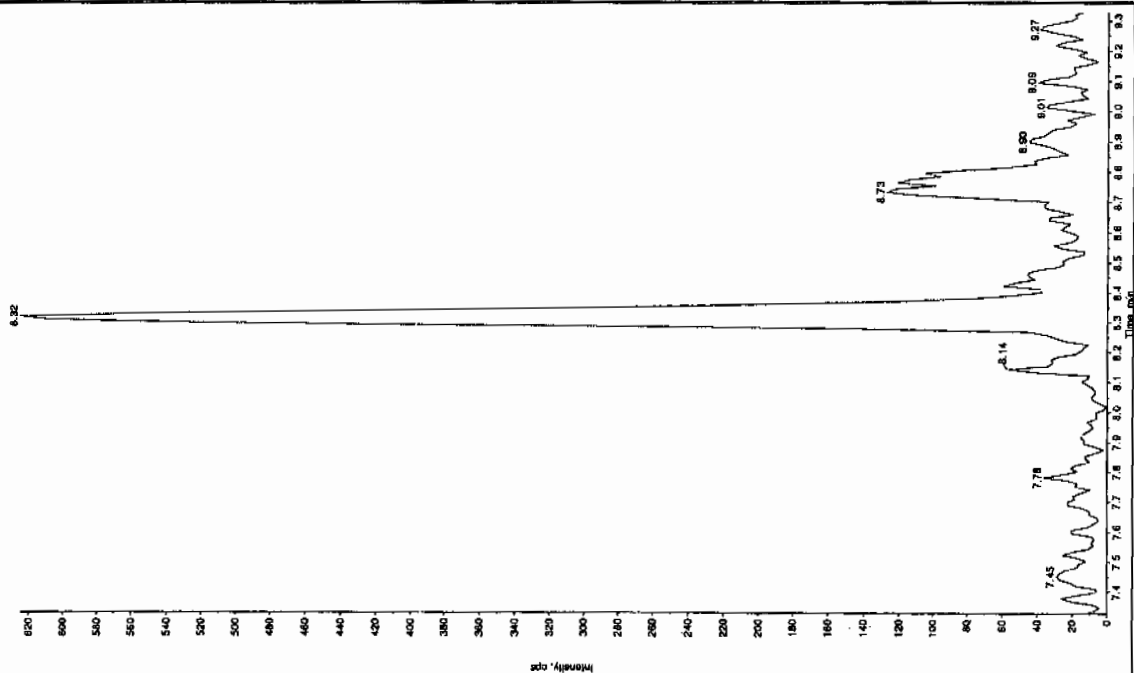
Acq. Time: 4:16:31 PM

Modified: No



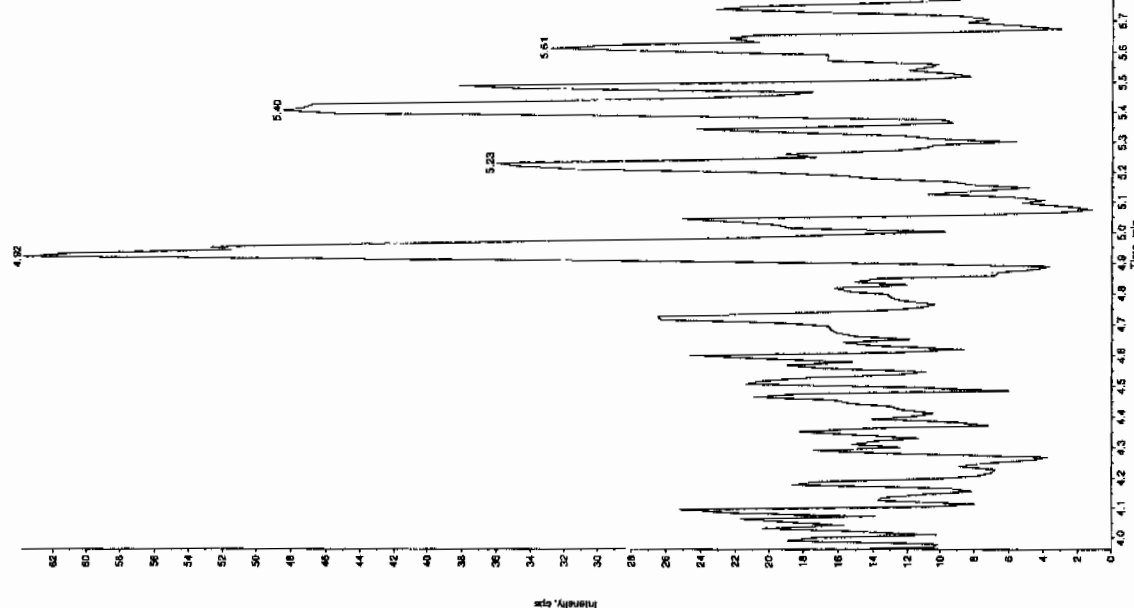
Sample Name: "XIBLK01" Sample ID: "TILER" File: "EX503120002.will"
 Peak Name: "25-Diamino-4-nitrofluorene" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 4:16:31 PM
 Modified: No



Sample Name: "XIBLK01" Sample ID: "TILER" File: "EX503120002.will"
 Peak Name: "25-Diamino-4-nitrofluorene" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

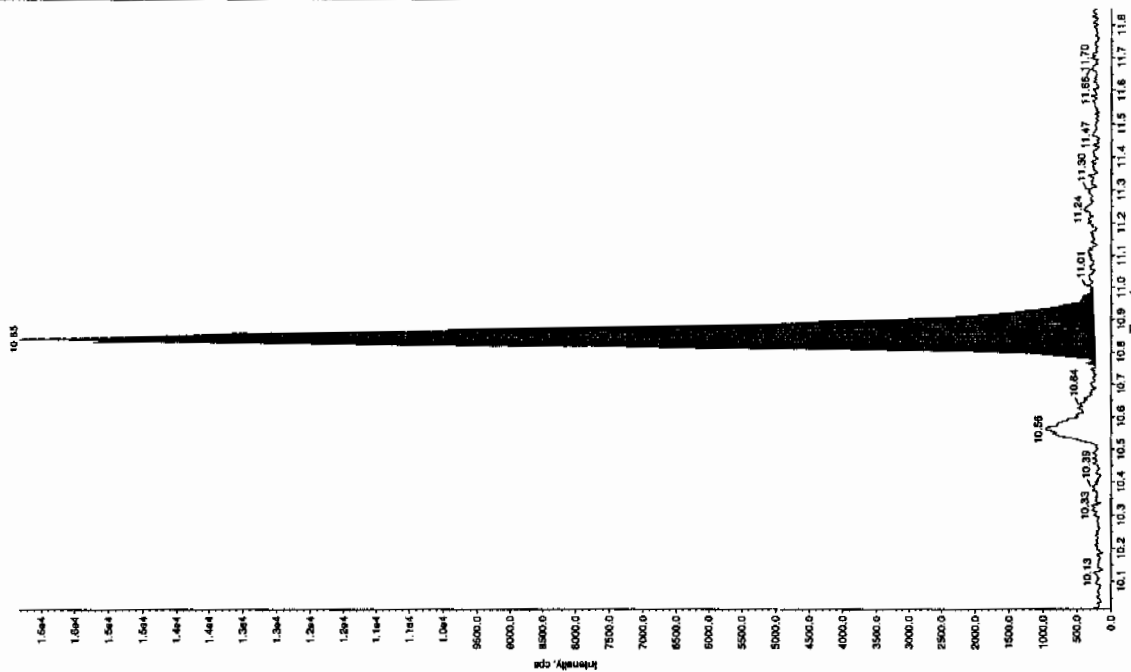
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 4:16:31 PM
 Modified: No



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

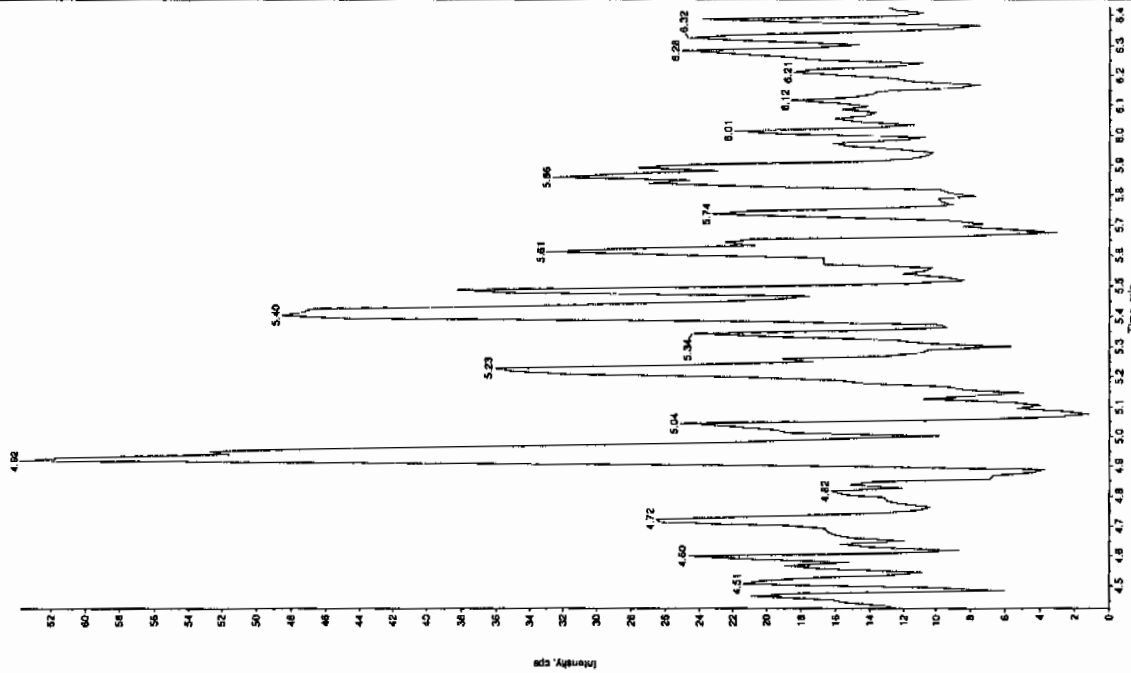
Sample Name: "XIBUX01" Sample ID: "TILER" File: "EXS03120002.wif"
 Peak Name: "tris(2-chloroethyl) phosphate" Mass(es): 369.191.0 amu
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00
 Calculated Conc: 3/12/2010
 Acq. Date: 4:16:31 PM
 Acq. Time: 4:16:31 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.28e+004 counts
 Height: 10088.575 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Name: "XIBUX01" Sample ID: "TILER" File: "EXS03120002.wif"
 Peak Name: "24-Diamino-6-nitroindane" Mass(es): 166.046.0 amu
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 4:16:31 PM
 Acq. Time: 4:16:31 PM
 Modified: No



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

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)
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
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

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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

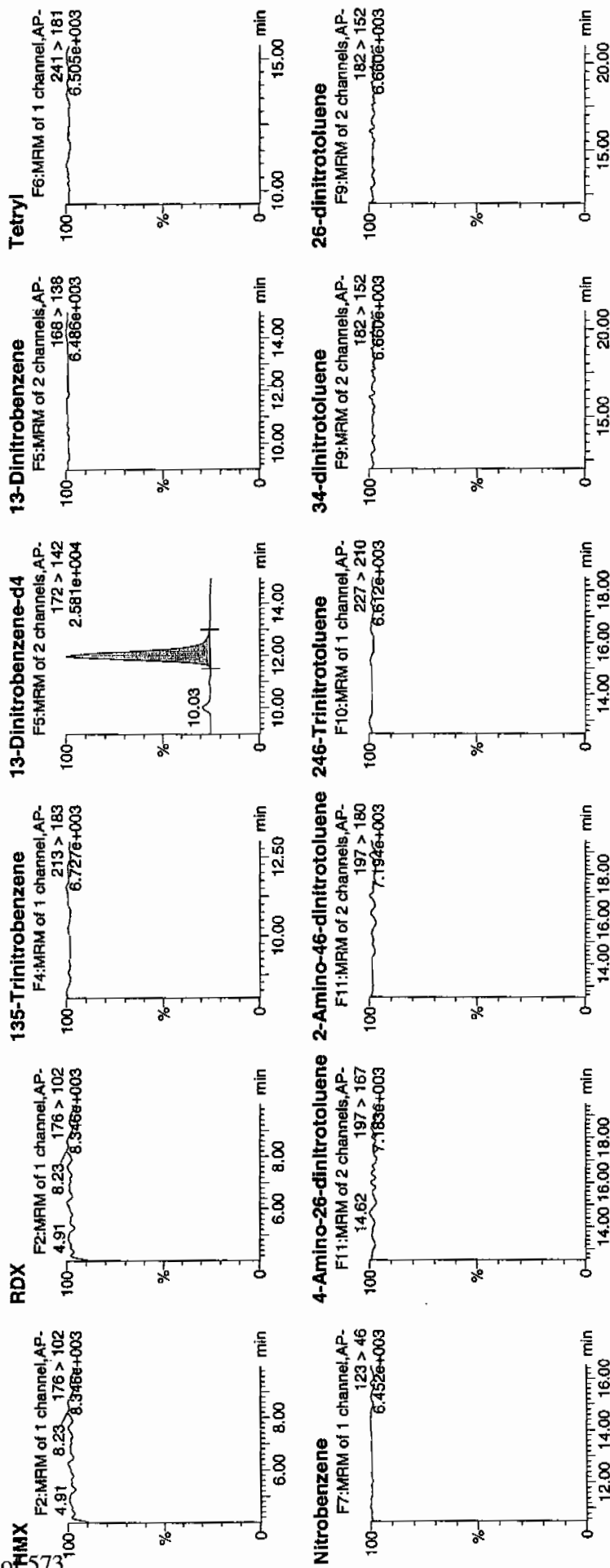
Date: 09-Apr-2010

Time: 01:28:39

ID: XIBLK02

Vial: 1:1,A

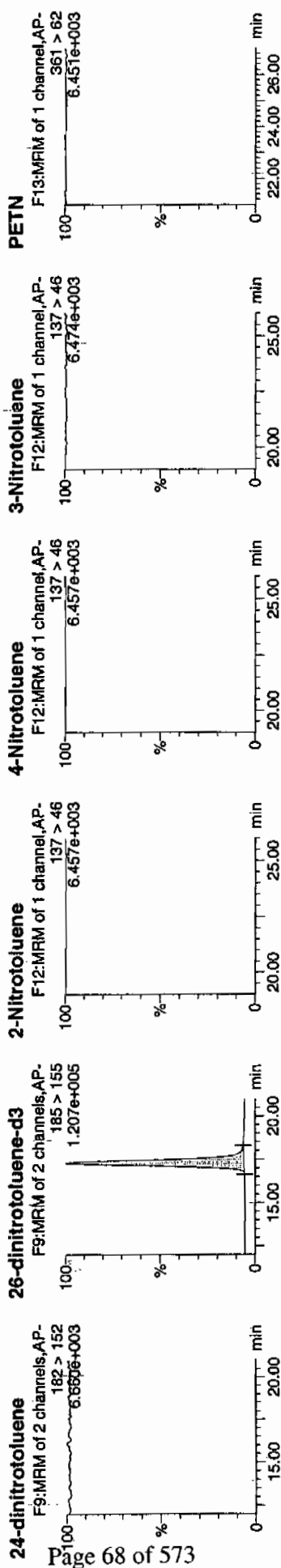
WAT
4/10/10



Handwritten signature
04/11/10

Dataset: C:\MASSL\YN\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): 10-2071

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

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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\EXP0408011a

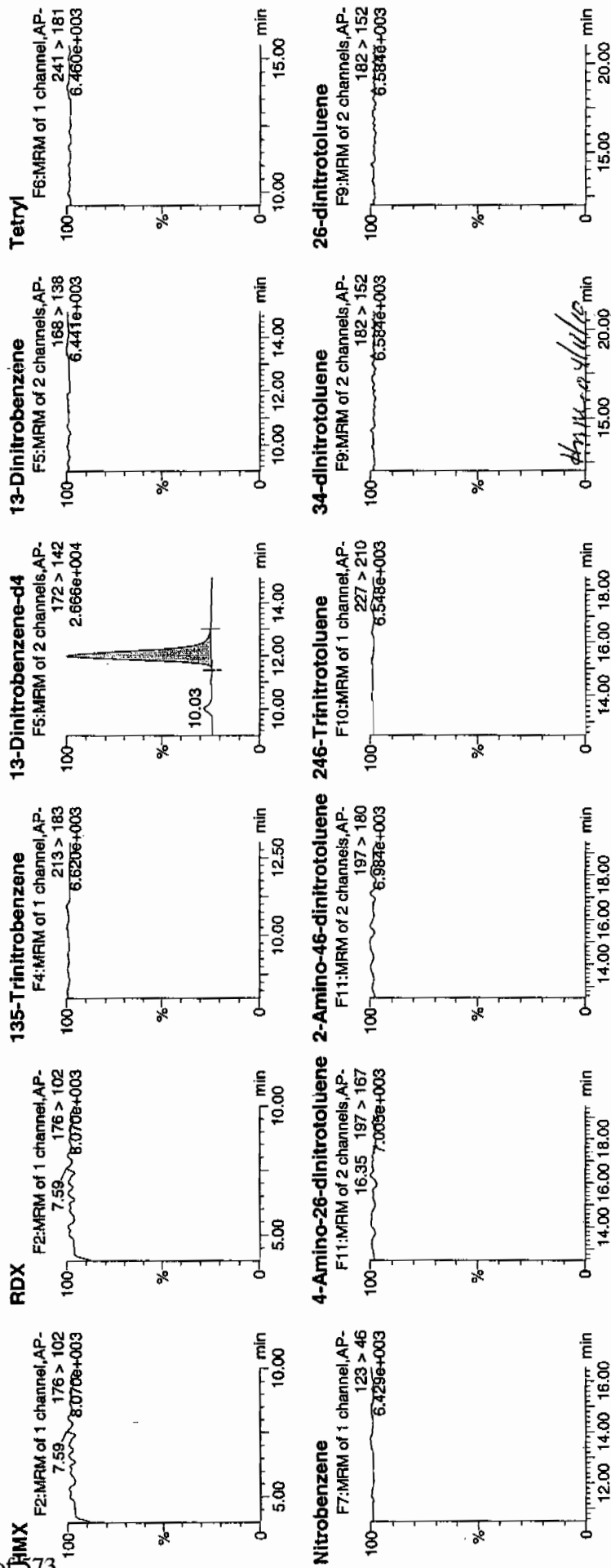
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Time: 02:27:37

ID: XIBLK03

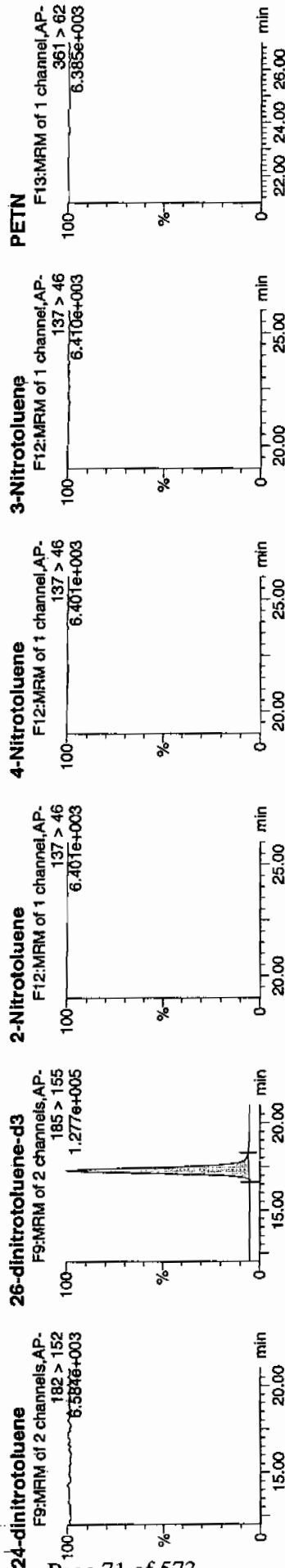
Vial: 1:1,A

MM
4/12/10



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

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ID	Name	Trace	RT	Area	SArea	Abs Resp	Response	Flags	Mod Date	Unit/ml	%Rec	%Dev	SN
XIBLK03	HMX	176 > 102			7983.108								
XIBLK03	RDx	176 > 102			7983.108								
XIBLK03	135-Trinitrobenzene	213 > 183			7983.108								
XIBLK03	13-Dinitrobenzene-d4	172 > 142	12.00	7983.108		7983.108	7983.108	bb		614.2695	122.9	22.9	696.9
XIBLK03	13-Dinitrobenzene	168 > 138			7983.108								
XIBLK03	Tetryl	241 > 181			7983.108								
XIBLK03	Nitrobenzene	123 > 46			7983.108								
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167			48806.199								
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180			48806.199								
XIBLK03	246-Trinitrotoluene	227 > 210			48806.199								
XIBLK03	34-dinitrotoluene	182 > 152			48806.199								
XIBLK03	26-dinitrotoluene	182 > 152			48806.199								
XIBLK03	24-dinitrotoluene	182 > 152			48806.199								
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.29	48806.199		48806.199	48806.199	bb		618.1351	123.6	23.6	4573.9
XIBLK03	2-Nitrotoluene	137 > 46			48806.199								
XIBLK03	4-Nitrotoluene	137 > 46			48806.199								
XIBLK03	3-Nitrotoluene	137 > 46			48806.199								
XIBLK03	PETN	361 > 62			48806.199								

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

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)
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
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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408024a

Date: 09-Apr-2010

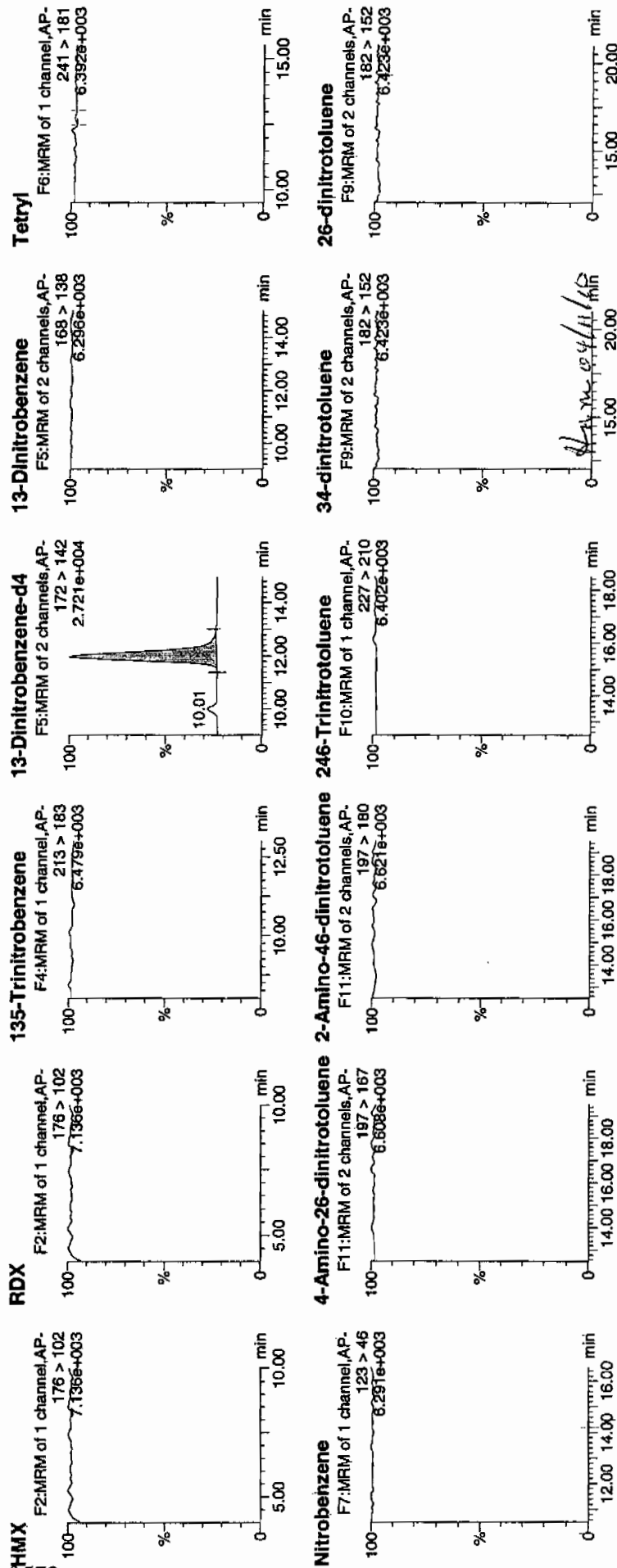
Time: 08:50:59

ID: XIBLK04

Vial: 1:1,A

4/10/10

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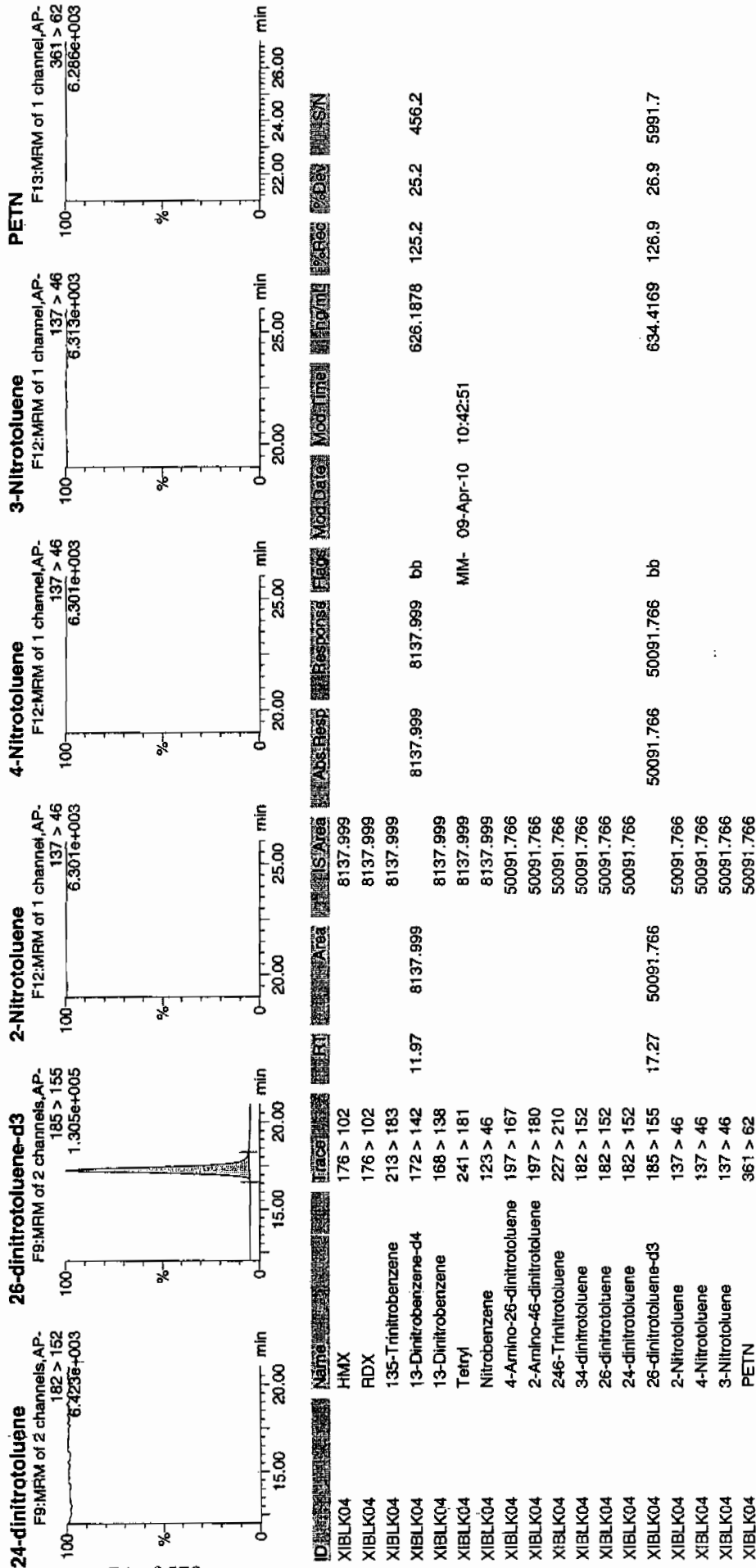


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Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

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

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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\EXP0408037a

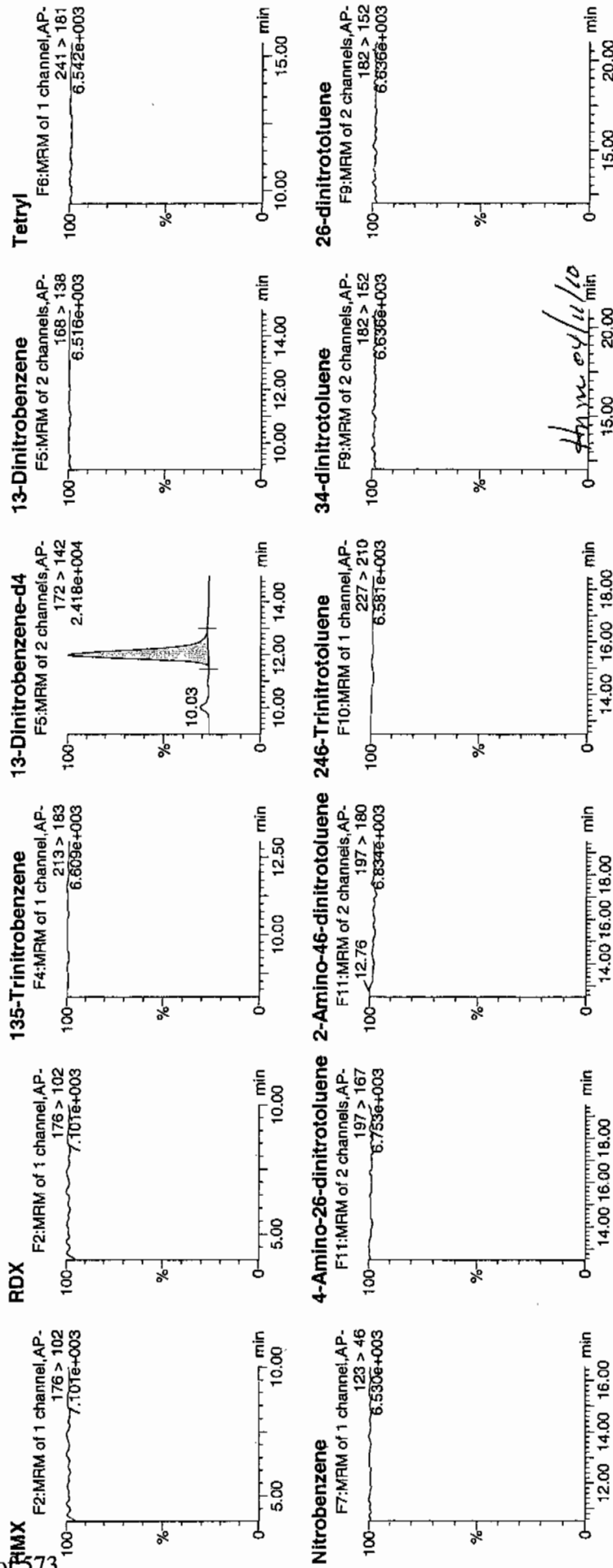
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Time: 15:14:23

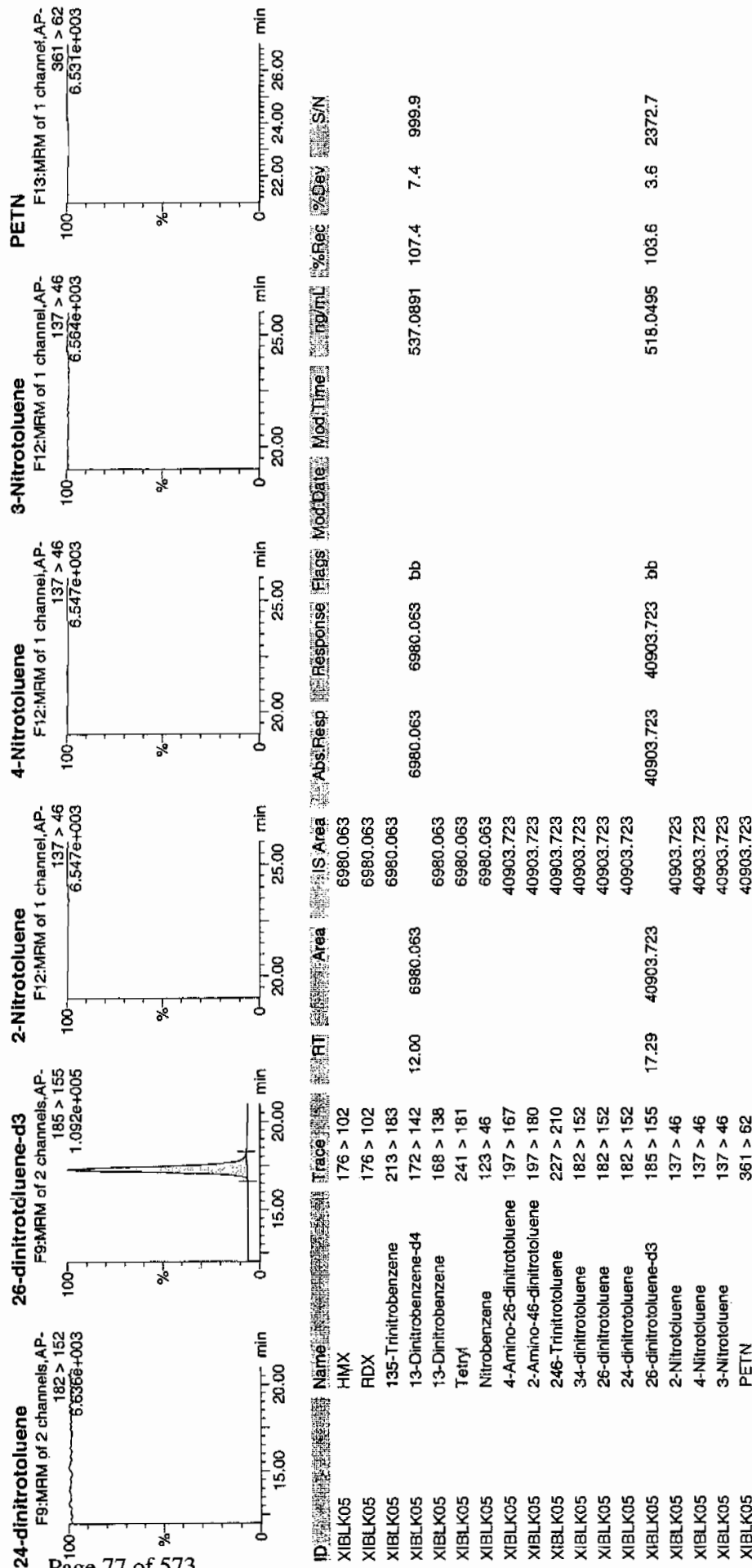
ID: XIBLK05

Vial: 1:1,A

Handwritten: 4/10/10



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): 10-2071

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)
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	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

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

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

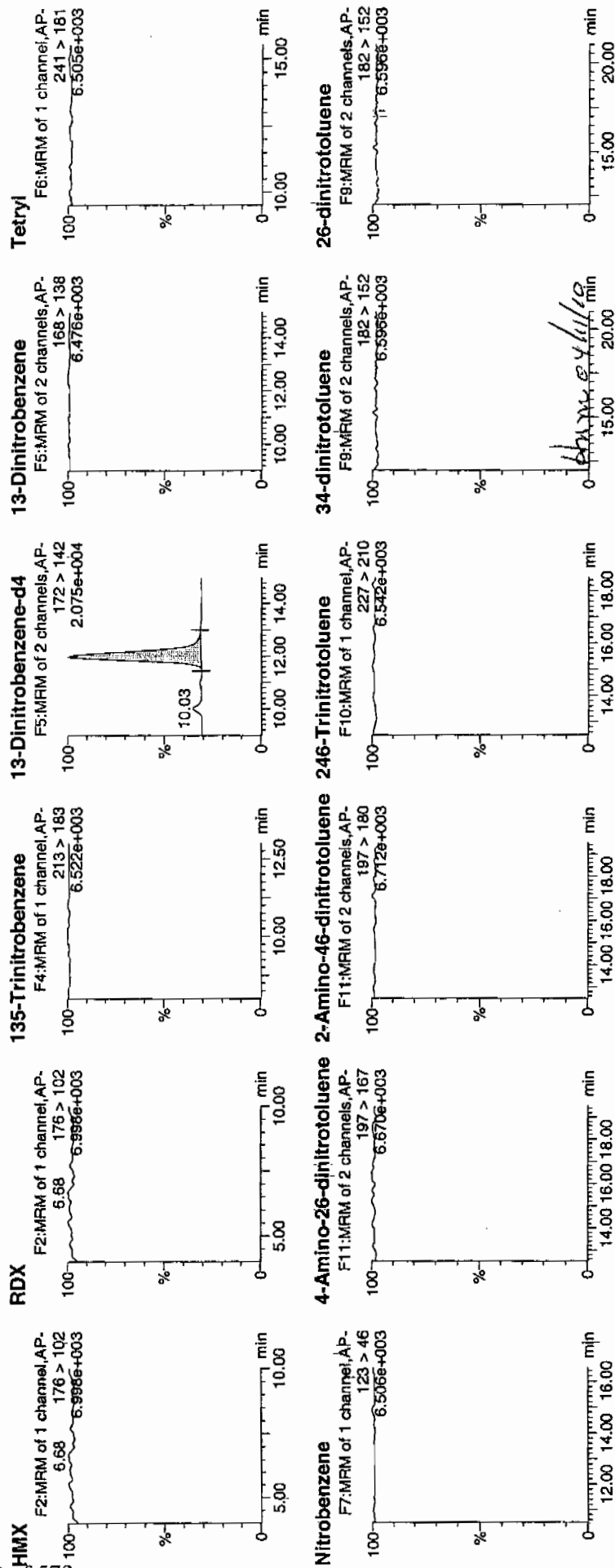
Date: 09-Apr-2010

Time: 20:12:37

ID: XIBLK06

Vial: 1:1,A

4/10/10

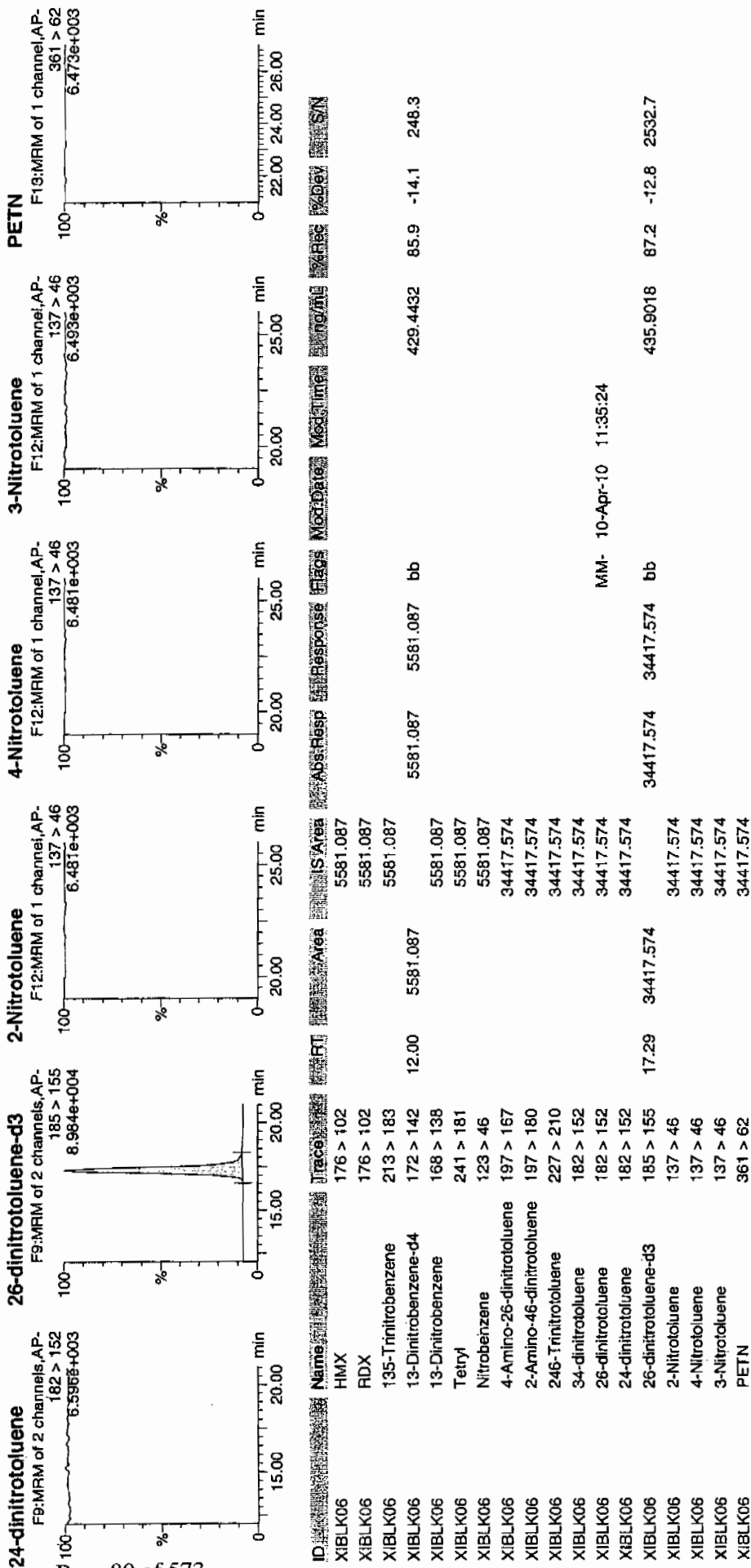


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Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

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

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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\EXP0408060a

Date: 10-Apr-2010

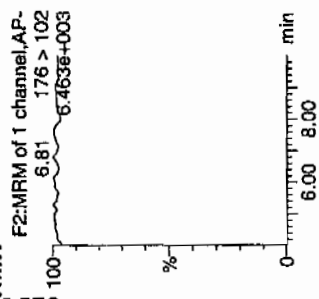
Time: 02:36:11

ID: XIBLK07

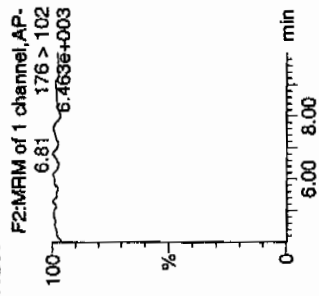
Vial: 1:1,A

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4/10/10

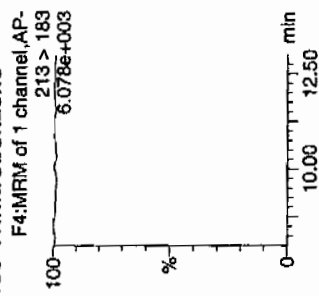
Q1 HMX



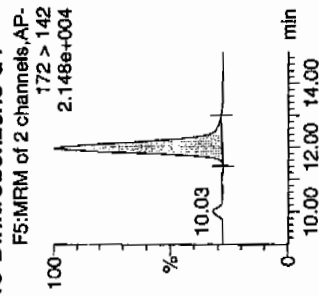
RDX



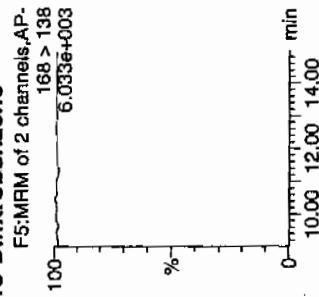
135-Trinitrobenzene



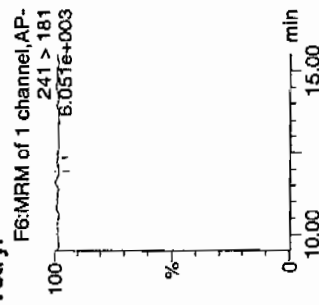
13-Dinitrobenzene-d4



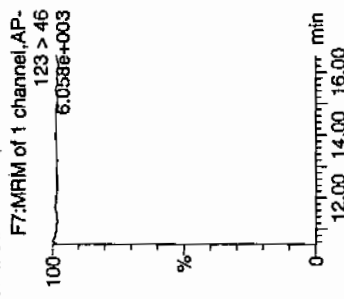
13-Dinitrobenzene



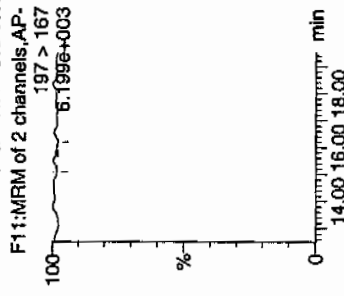
Tetryl



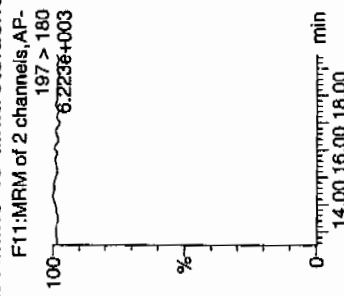
Nitrobenzene



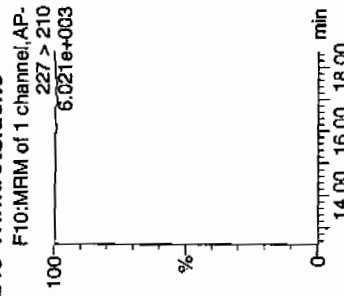
4-Amino-26-dinitrotoluene



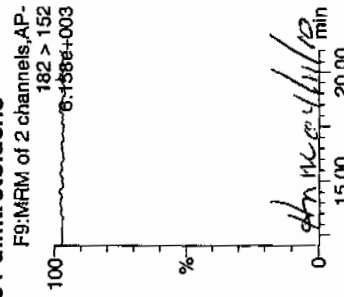
2-Amino-46-dinitrotoluene



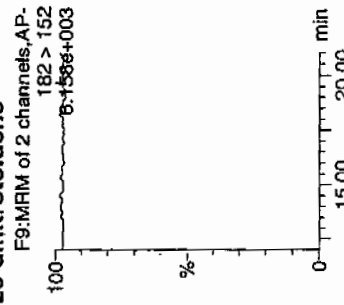
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

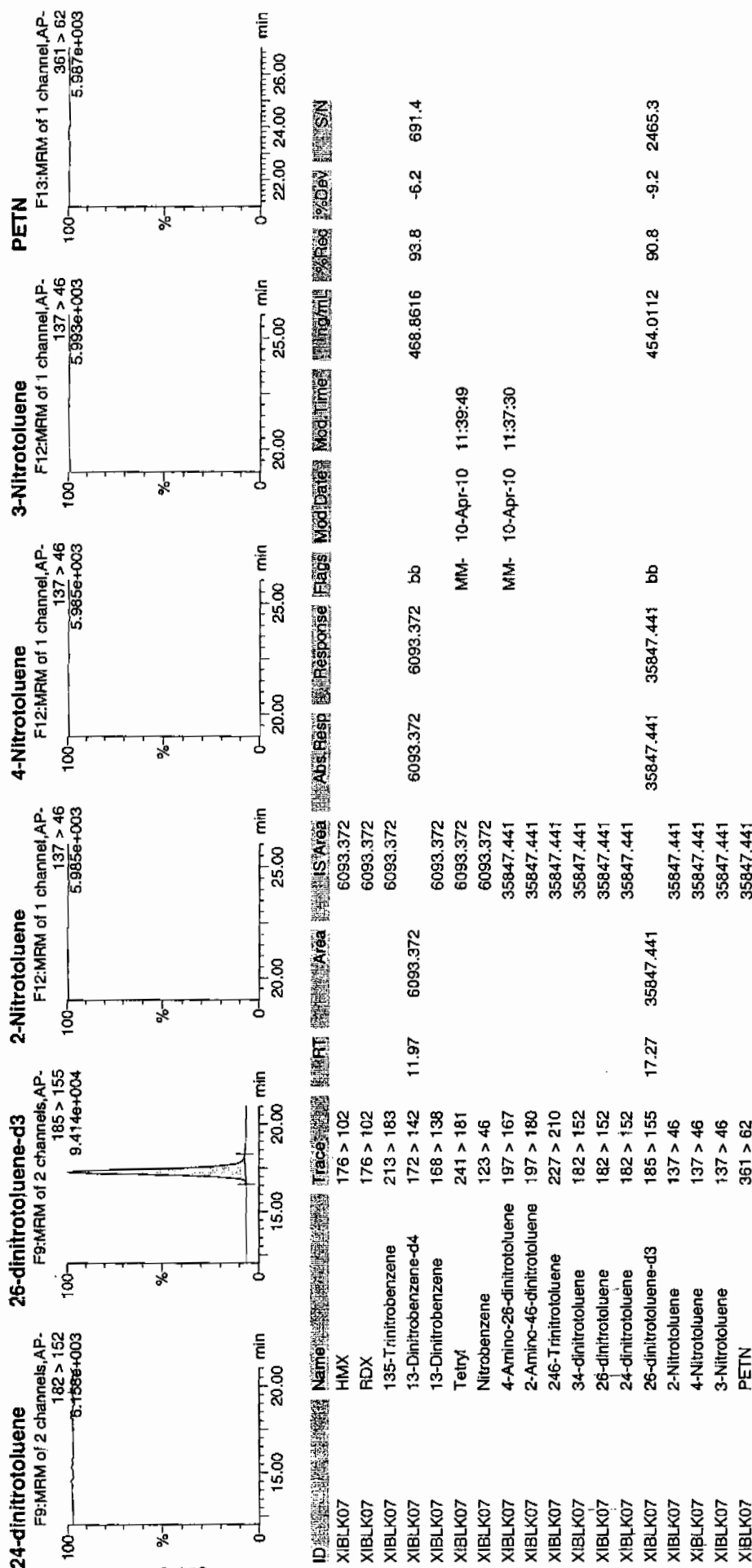


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Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA1.qld, Time: Sat Apr 10 11:40:36 2010



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Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

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)
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	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

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

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408073a

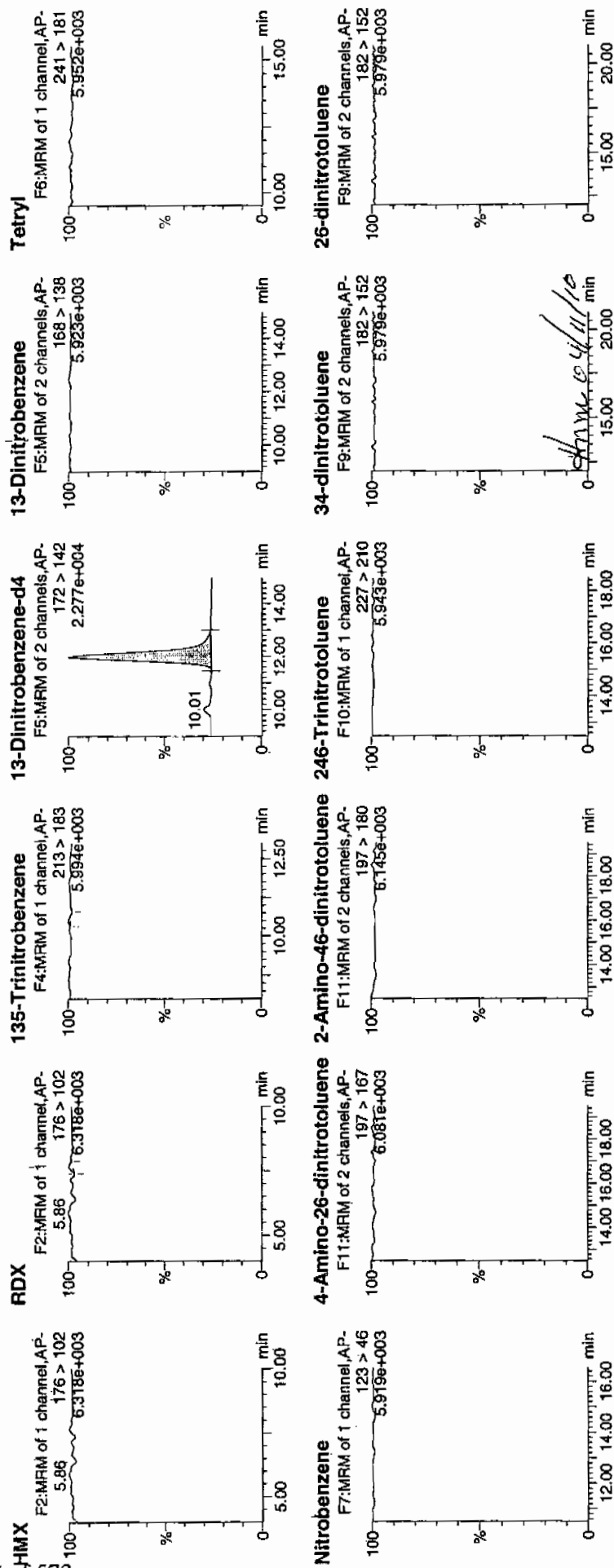
Date: 10-Apr-2010

Time: 08:59:47

ID: XIBLK08

Vial: 1:1,A

4/10/10

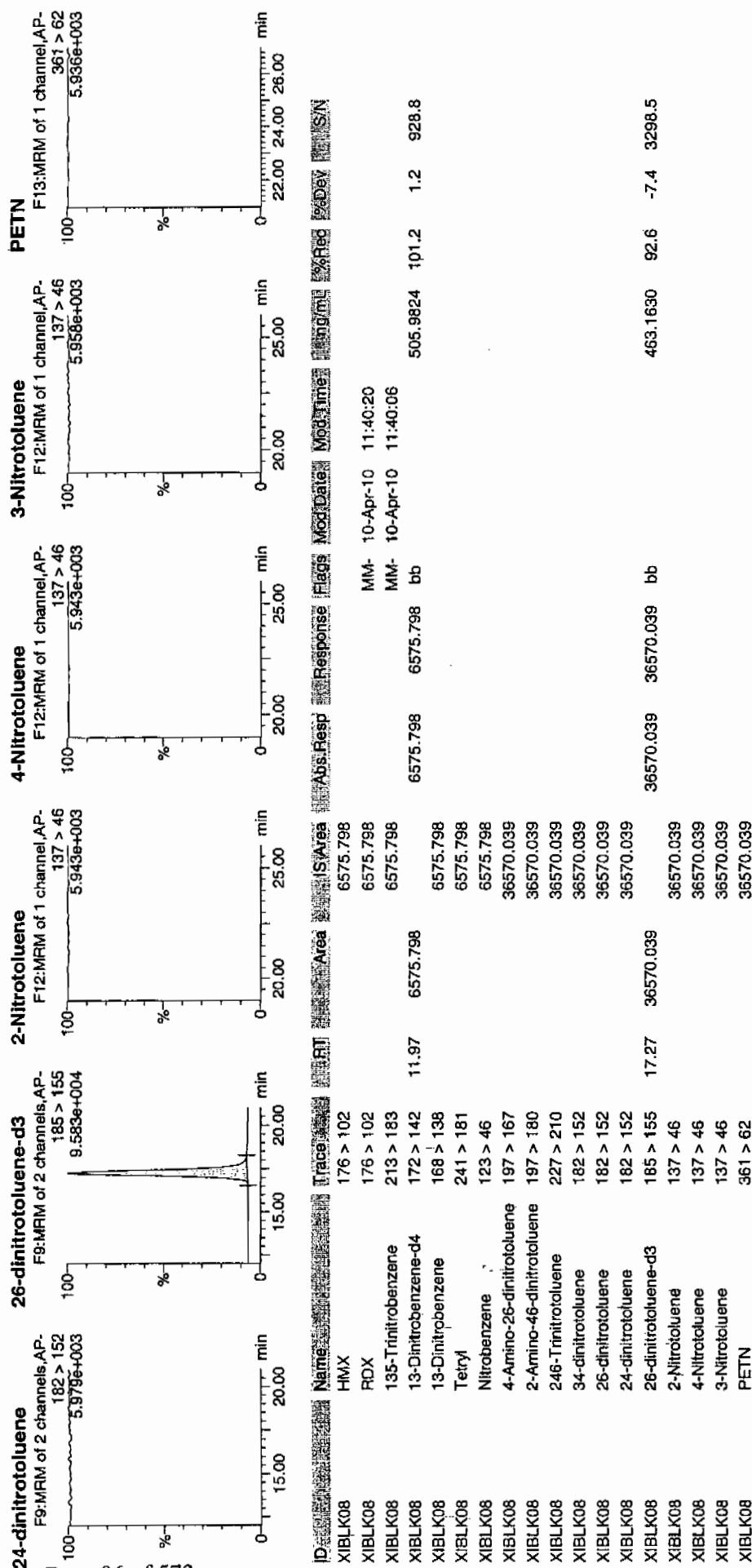


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

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

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408076a

Date: 10-Apr-2010

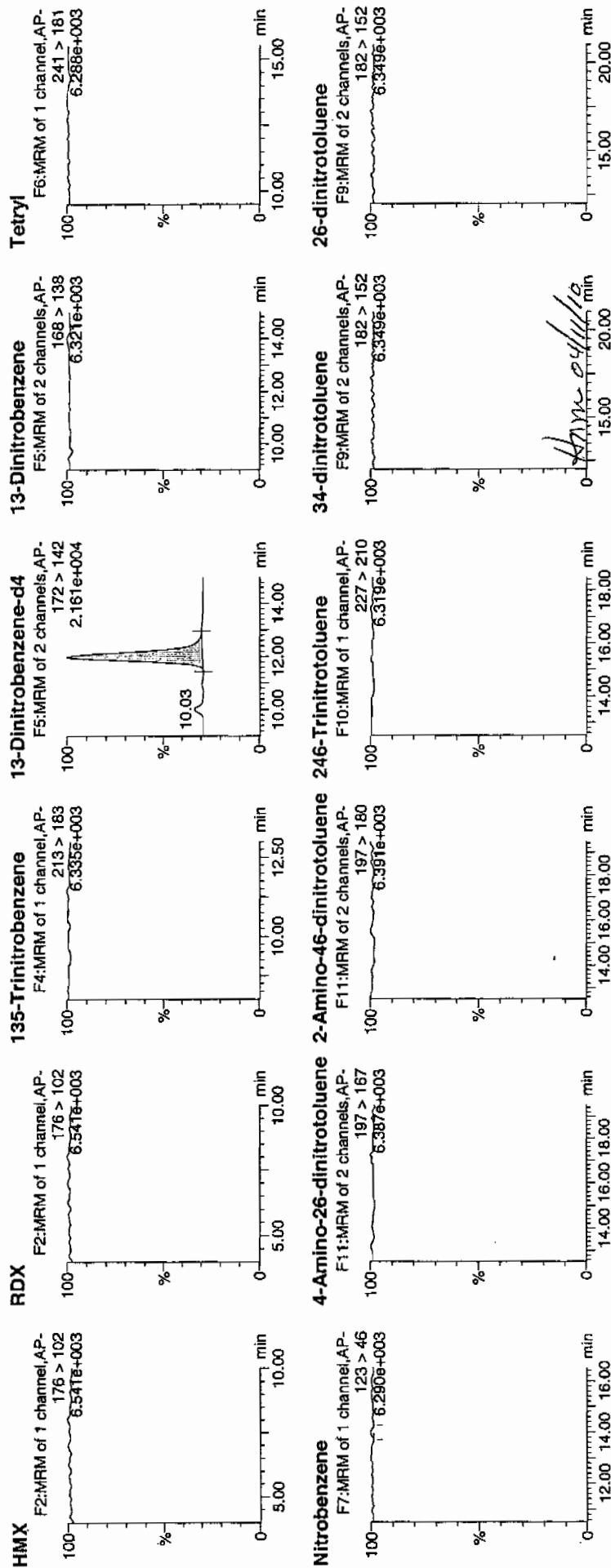
Time: 10:28:20

ID: XIBLK09

Vial: 1:1,A

100%
4/11/10

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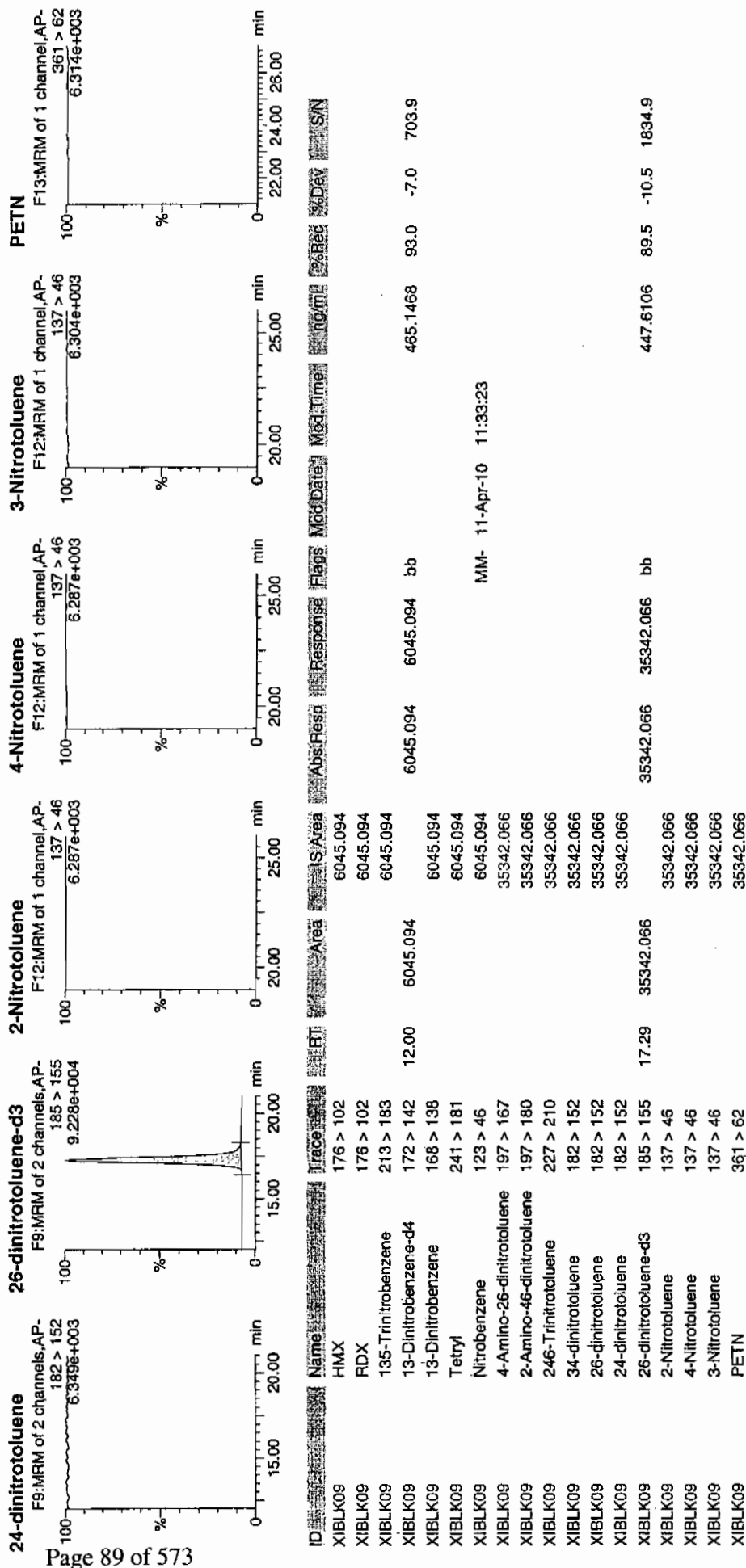


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 4 of 97

Dataset: C:\MASSLYNX\New_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): 10-2071

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)
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	453.275
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	429.682
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0

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

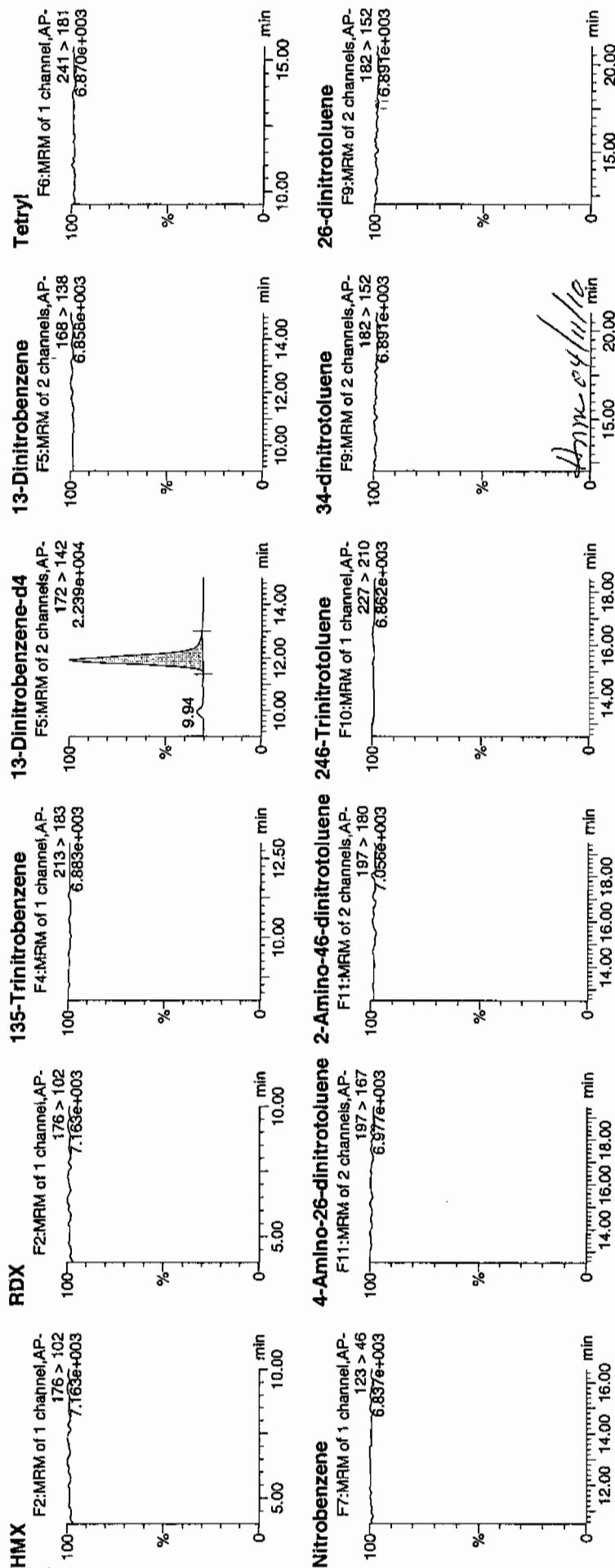
Date: 10-Apr-2010

Time: 15:23:25

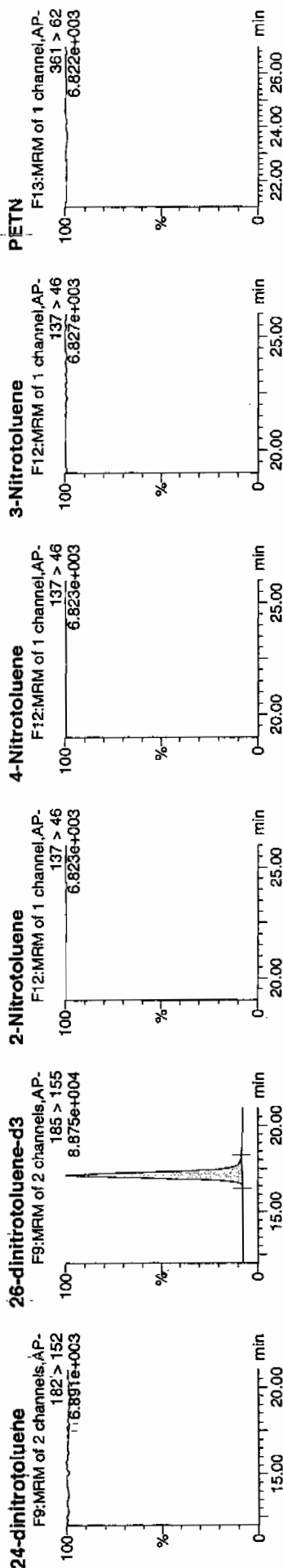
ID: XIBLK10

Vial: 1:1,A

1077
41460



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



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod	Time	Conc	ng/mL	% Rec	% Dev	SN
XIBLK10	HMX	176 > 102		5890.806	5890.806										
XIBLK10	RDX	176 > 102		5890.806	5890.806										
XIBLK10	135-Trinitrobenzene	213 > 183		5890.806	5890.806										
XIBLK10	13-Dinitrobenzene-d4	172 > 142	11.92	5890.806											
XIBLK10	13-Dinitrobenzene	168 > 138		5890.806											
XIBLK10	Tetryl	241 > 181		5890.806											
XIBLK10	Nitrobenzene	123 > 46		5890.806											
XIBLK10	4-Amino-26-dinitrotoluene	197 > 167		33926.508											
XIBLK10	2-Amino-46-dinitrotoluene	197 > 180		33926.508											
XIBLK10	246-Trinitrotoluene	227 > 210		33926.508											
XIBLK10	34-dinitrotoluene	182 > 152		33926.508											
XIBLK10	26-dinitrotoluene	182 > 152		33926.508											
XIBLK10	24-dinitrotoluene	182 > 152		33926.508											
XIBLK10	26-dinitrotoluene-d3	185 > 155	17.14	33926.508											
XIBLK10	2-Nitrotoluene	137 > 46		33926.508											
XIBLK10	4-Nitrotoluene	137 > 46		33926.508											
XIBLK10	3-Nitrotoluene	137 > 46		33926.508											
XIBLK10	PETN	361 > 62		33926.508											
						5890.806	5890.806	bb			453.2749	90.7	-9.3	263.8	
						33926.508	33926.508	bb	MM-	11-Apr-10 11:40:49					
						33926.508	33926.508	bb	MM-	11-Apr-10 11:42:27	429.6824	85.9	-14.1	1188.7	

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 10-APR-10 21:46

GEL Data File: EXP0408099a

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	574.264
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	468.42
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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Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408099a

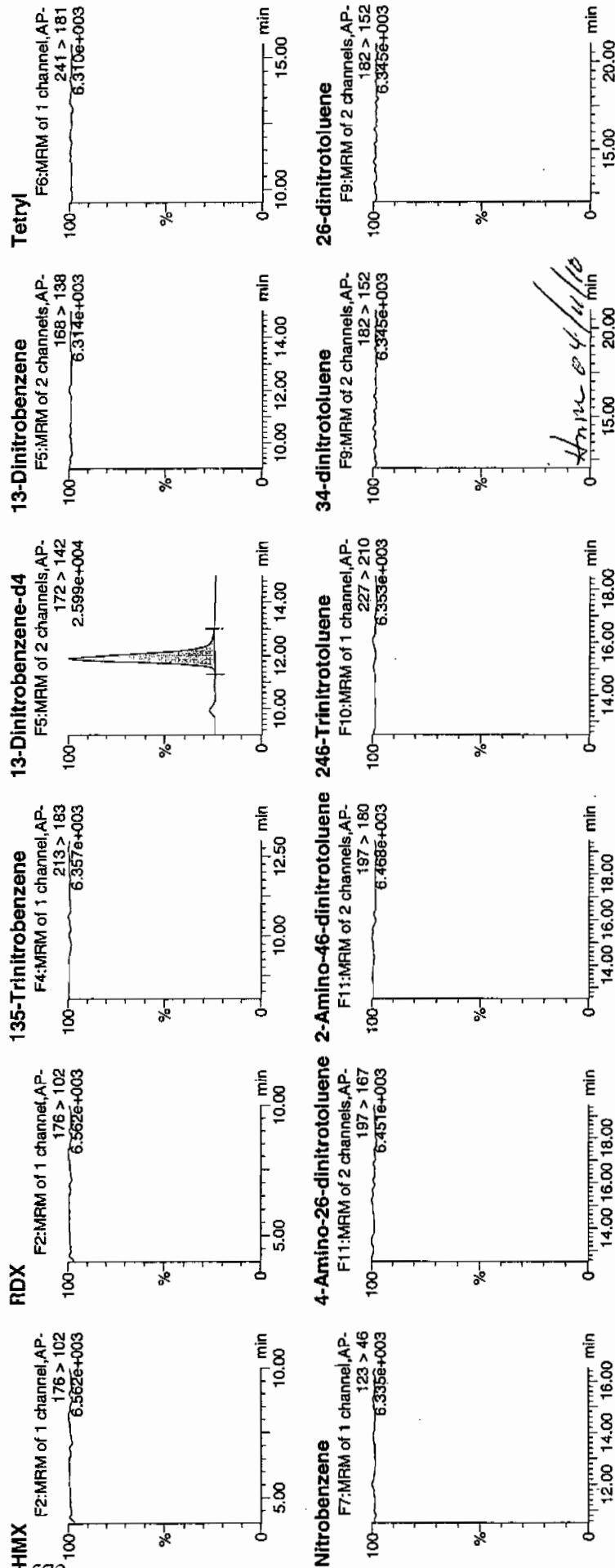
Date: 10-Apr-2010

Time: 21:46:53

ID: XIBLK11

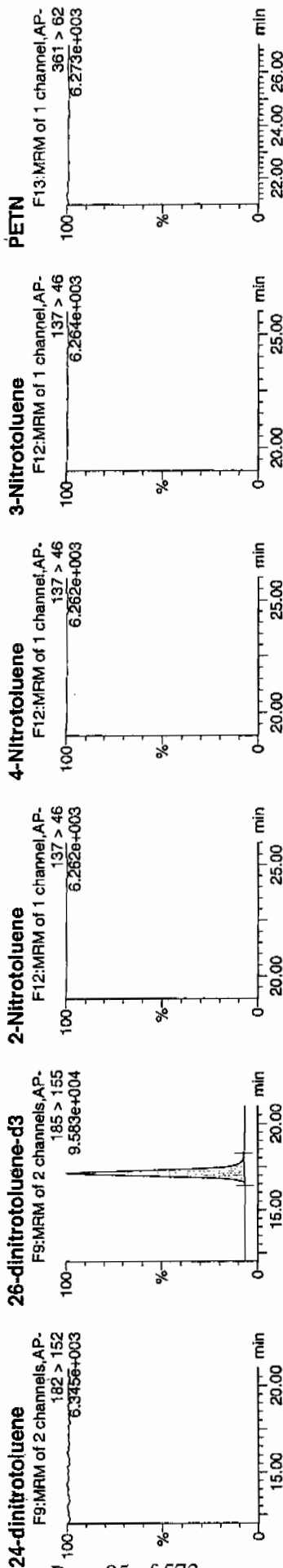
Vial: 1:1,A

4/11/10



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

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ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Inj	%Rec	%Dev	S/N
XIBLK11	HMX	176 > 102			7463.190									
XIBLK11	RDX	176 > 102			7463.190									
XIBLK11	135-Trinitrobenzene	213 > 183			7463.190									
XIBLK11	13-Dinitrobenzene-d4	172 > 142	11.92	7463.190		7463.190	7463.190	bb			574.2638	114.9	14.9	301.0
XIBLK11	13-Dinitrobenzene	168 > 138			7463.190									
XIBLK11	Tetryl	241 > 181			7463.190									
XIBLK11	Nitrobenzene	123 > 46			7463.190									
XIBLK11	4-Amino-26-dinitrotoluene	197 > 167			36985.094									
XIBLK11	2-Amino-46-dinitrotoluene	197 > 180			36985.094									
XIBLK11	246-Trinitrotoluene	227 > 210			36985.094									
XIBLK11	34-dinitrotoluene	182 > 152			36985.094									
XIBLK11	26-dinitrotoluene	182 > 152			36985.094									
XIBLK11	24-dinitrotoluene	182 > 152			36985.094									
XIBLK11	26-dinitrotoluene-d3	185 > 155	17.12	36985.094		36985.094	36985.094	bb			468.4197	93.7	-6.3	1366.7
XIBLK11	2-Nitrotoluene	137 > 46			36985.094									
XIBLK11	4-Nitrotoluene	137 > 46			36985.094									
XIBLK11	3-Nitrotoluene	137 > 46			36985.094									
XIBLK11	PETN	361 > 62			36985.094									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 11-APR-10 02:12

GEL Data File: EXP0408108a

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	478.469
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	458.517
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\EXP0408108a

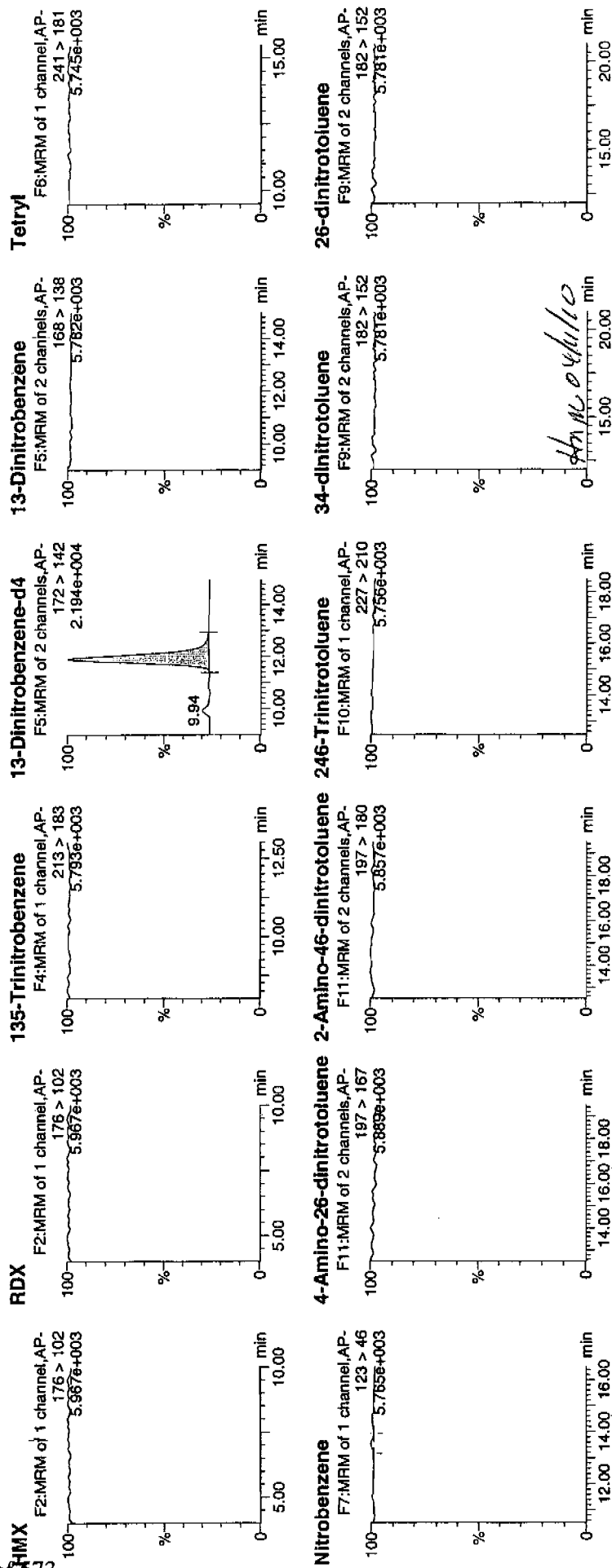
Date: 11-Apr-2010

Time: 02:12:26

ID: XIBLK12

Vial: 1:1,A

MT
4/11/10

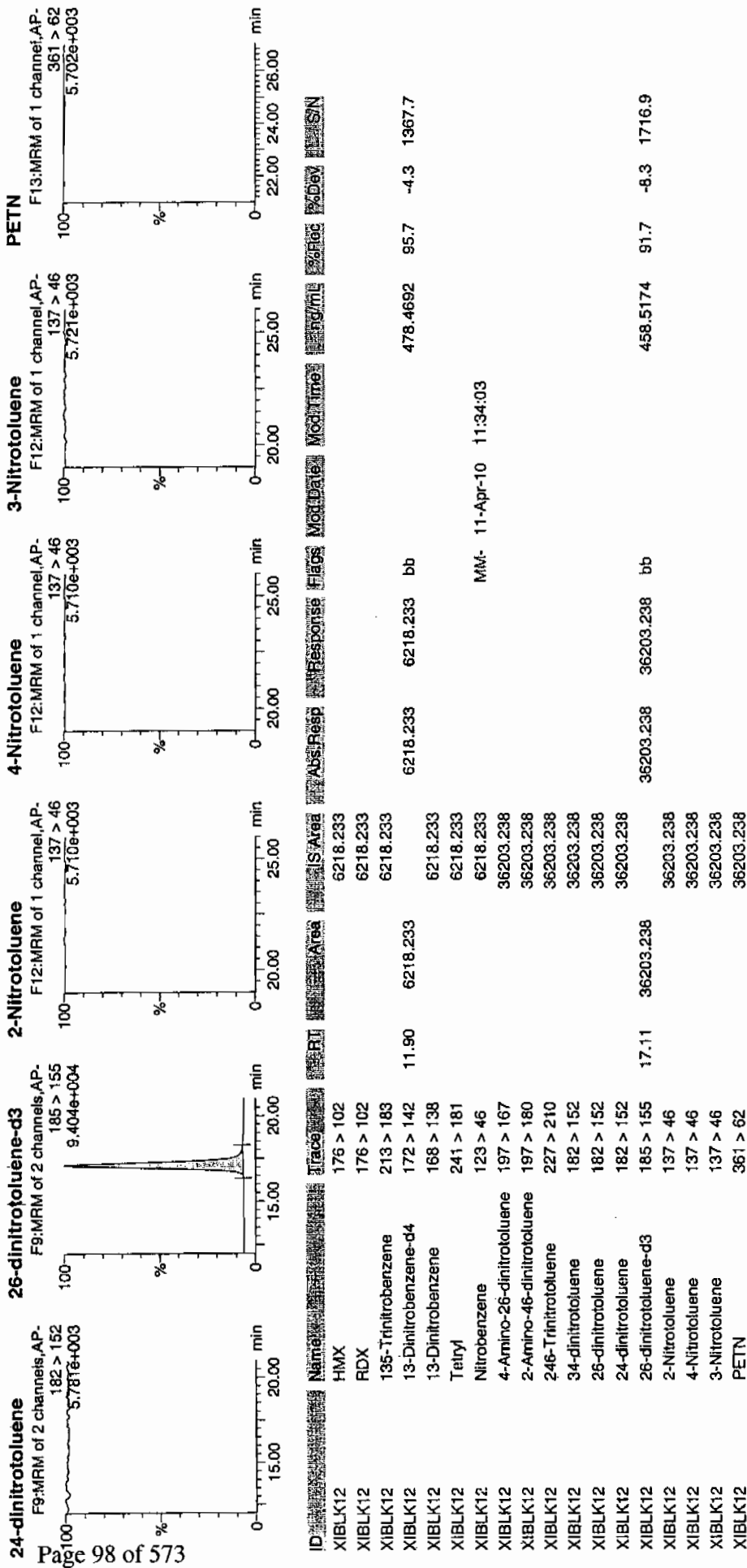


Quantify Sample Report

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



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 11-APR-10 08:35

GEL Data File: EXP0408121a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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	533.075
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	526.463
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	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

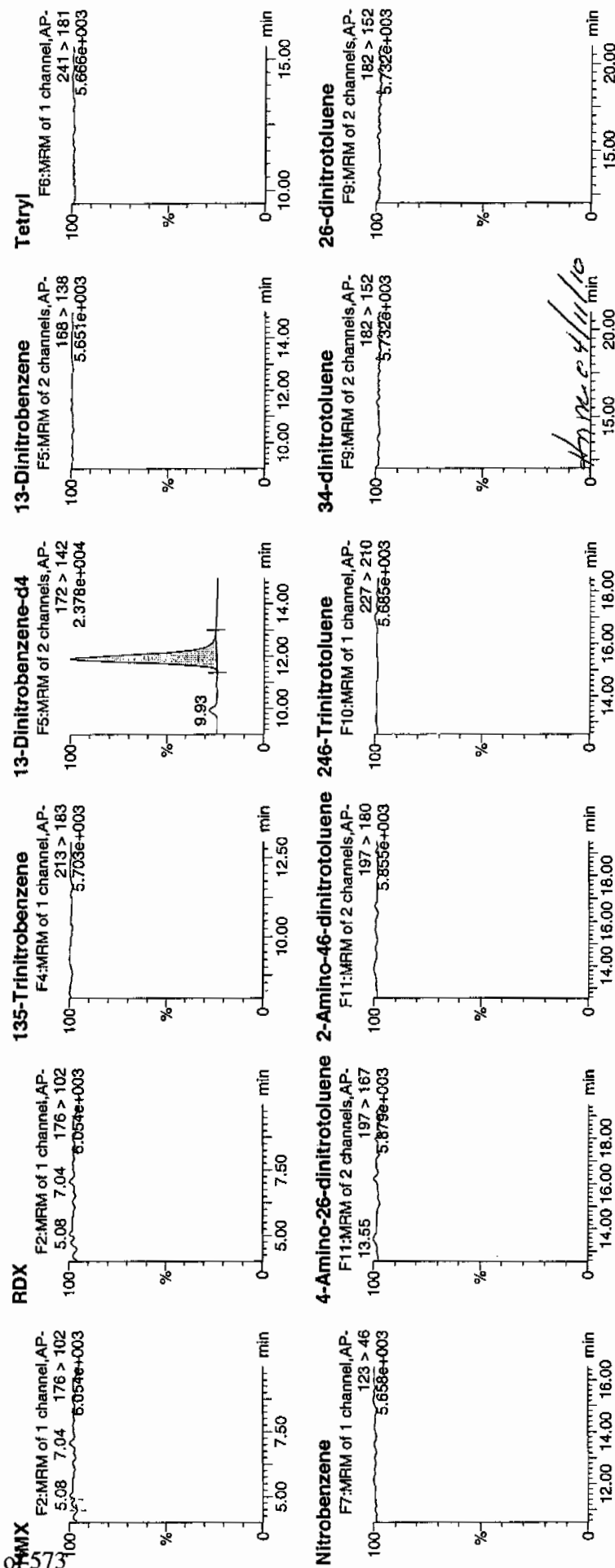
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408121a

Date: 11-Apr-2010

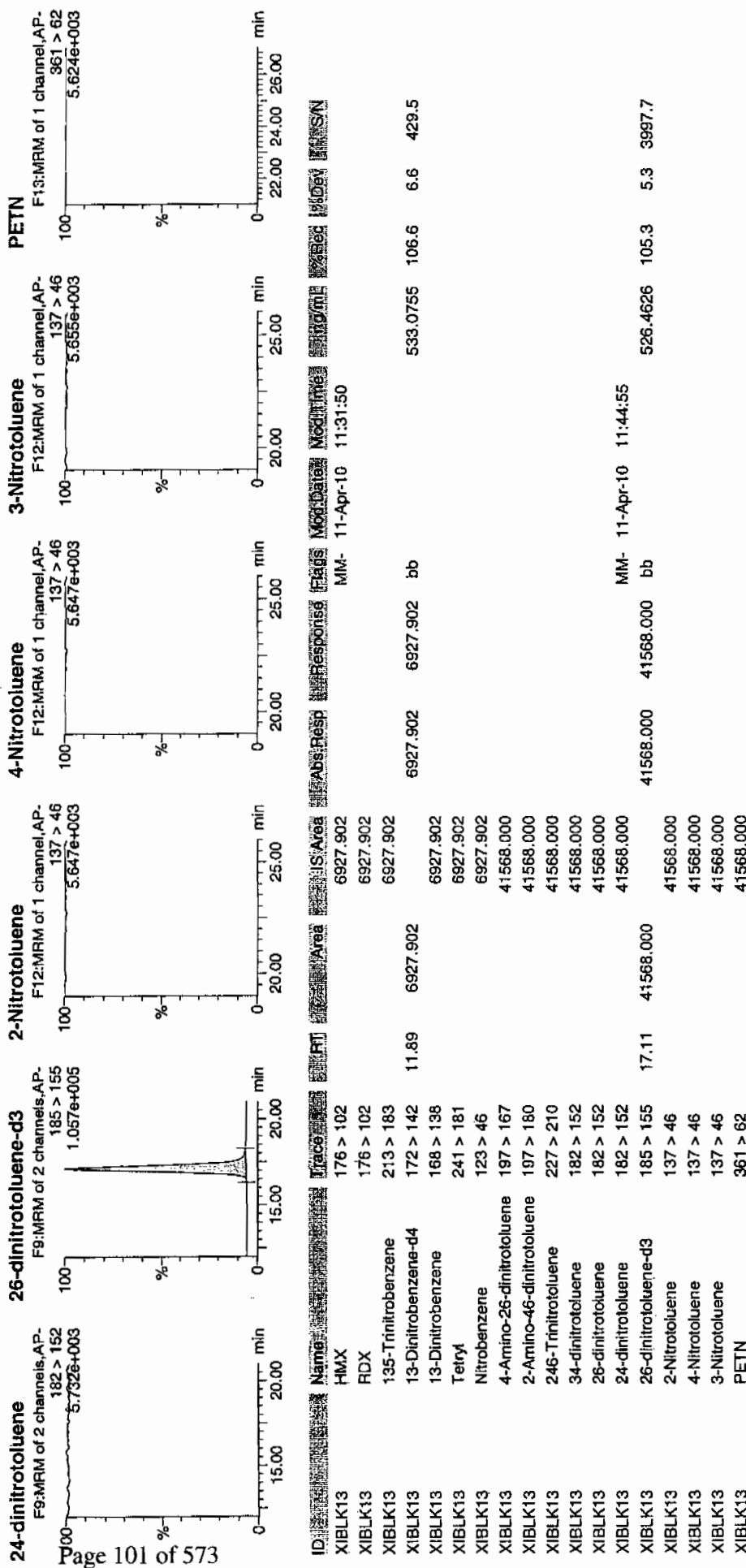
Time: 08:35:47

ID: XIBLK13

Val: 1:1,A



Dataset: C:\MASSLYNX\New_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): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 11-APR-10 14:59

GEL Data File: EXP0408134a

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	372.039
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	369.56
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\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408134a

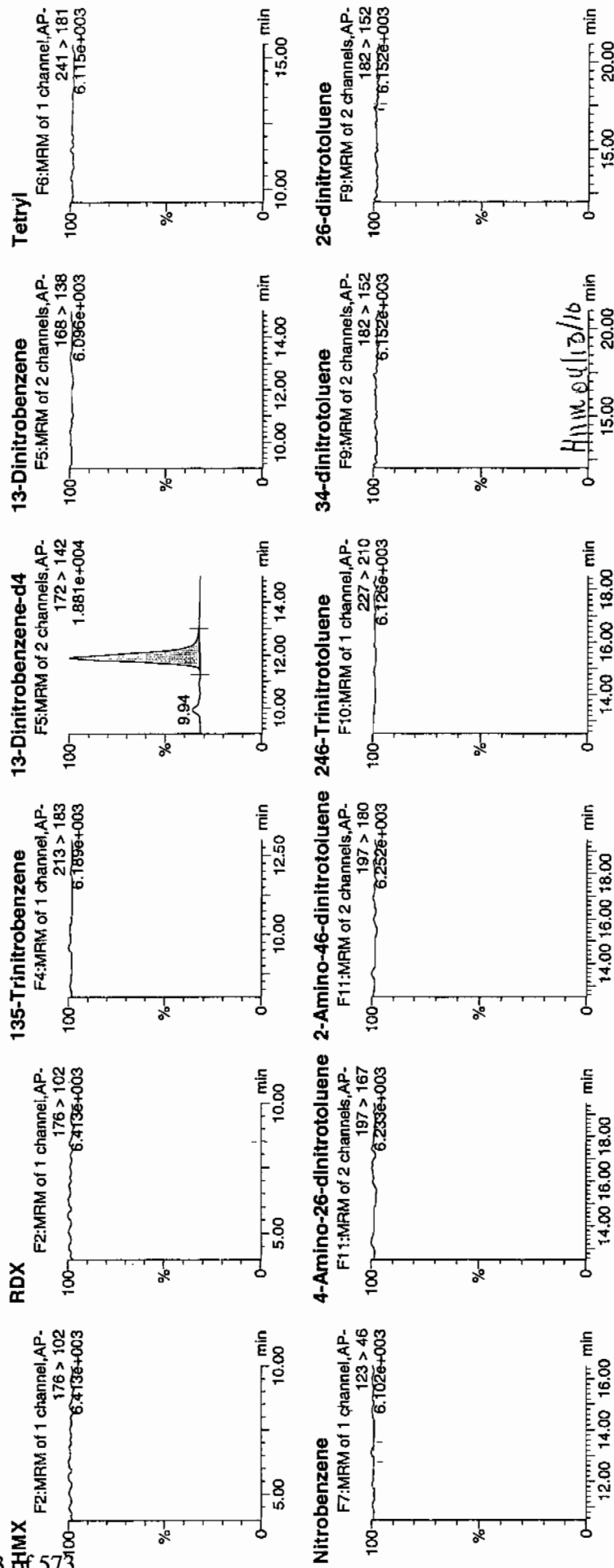
Date: 11-Apr-2010

Time: 14:59:17

ID: XIBLK14

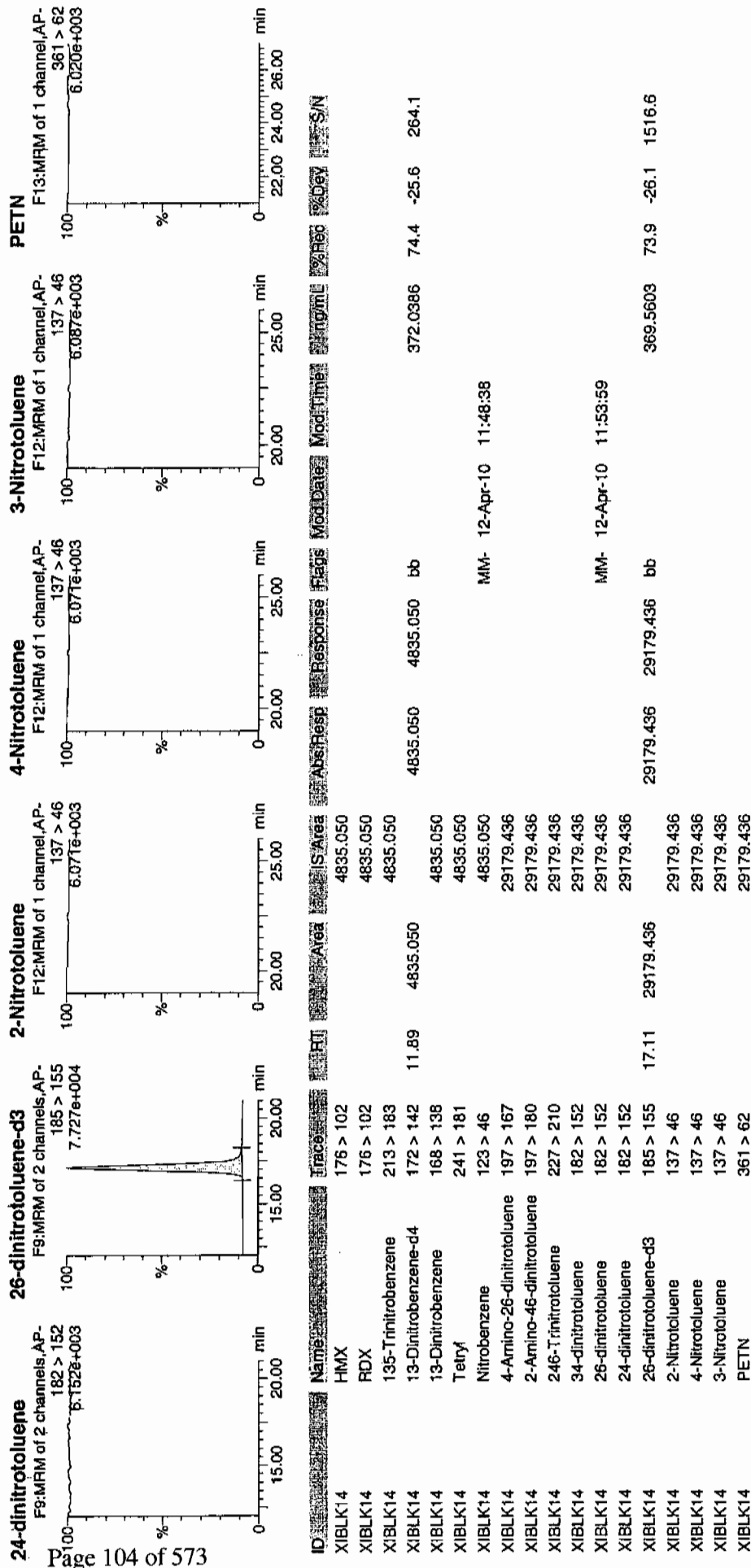
Vial: 1:1,A

100%
11/12



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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 11-APR-10 21:22

GEL Data File: EXP0408147a

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	472.972
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	462.455
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\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

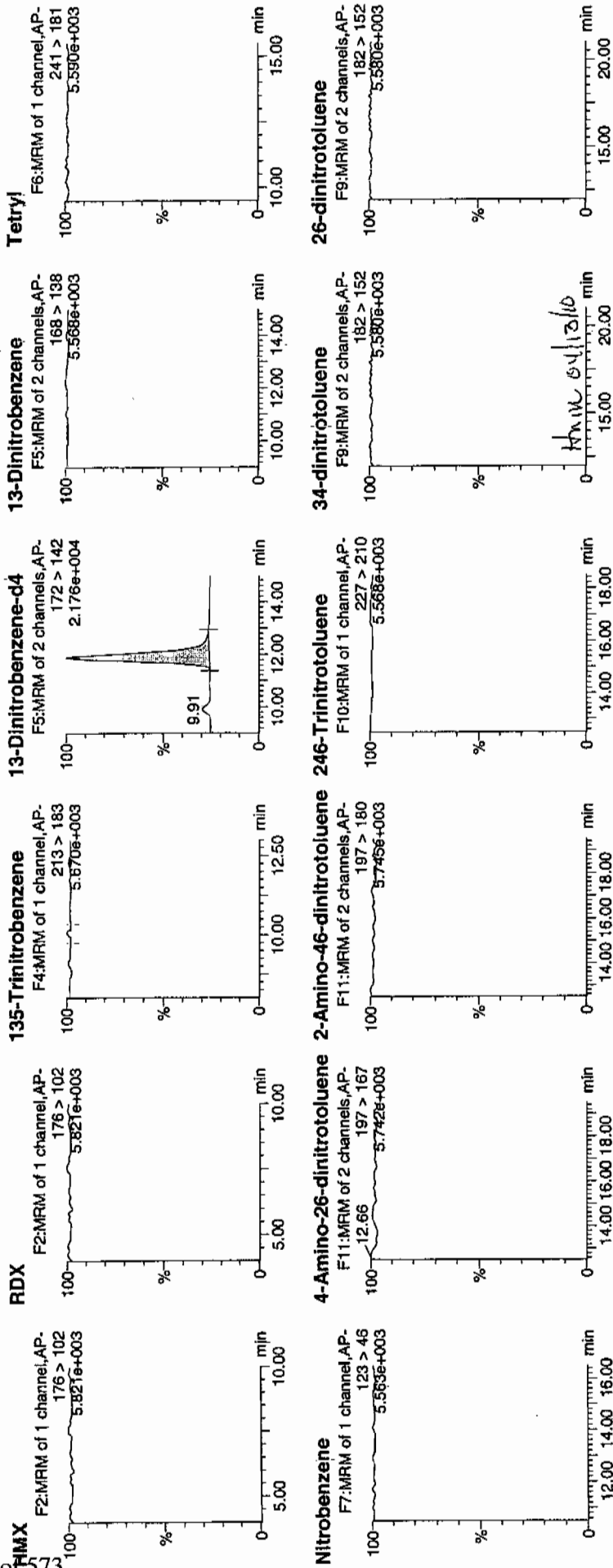
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408147a

Date: 11-Apr-2010

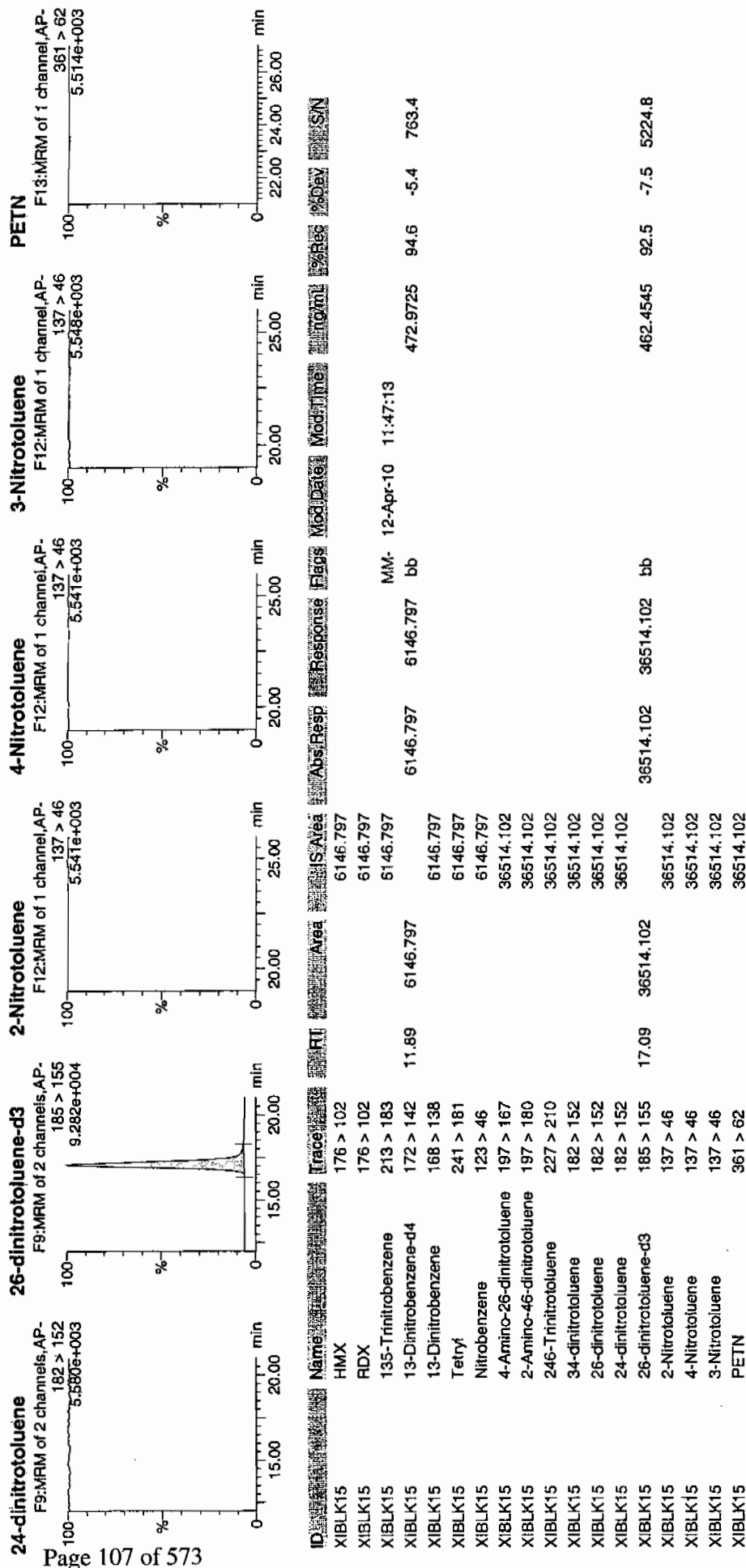
Time: 21:22:40

ID: XIBLK15

Vial: 1:1,A



Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 12-MAR-10 18:22

GEL Data File: EXS03120010.wiff

Instrument ID: LCMSMS

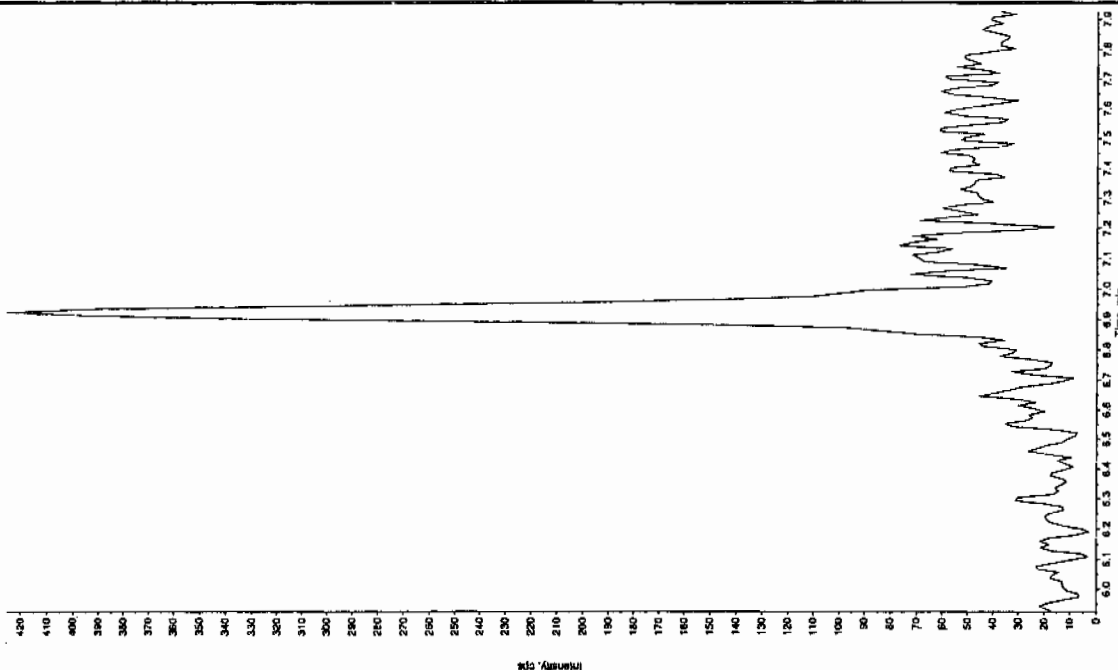
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	9.38
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 21/10/10

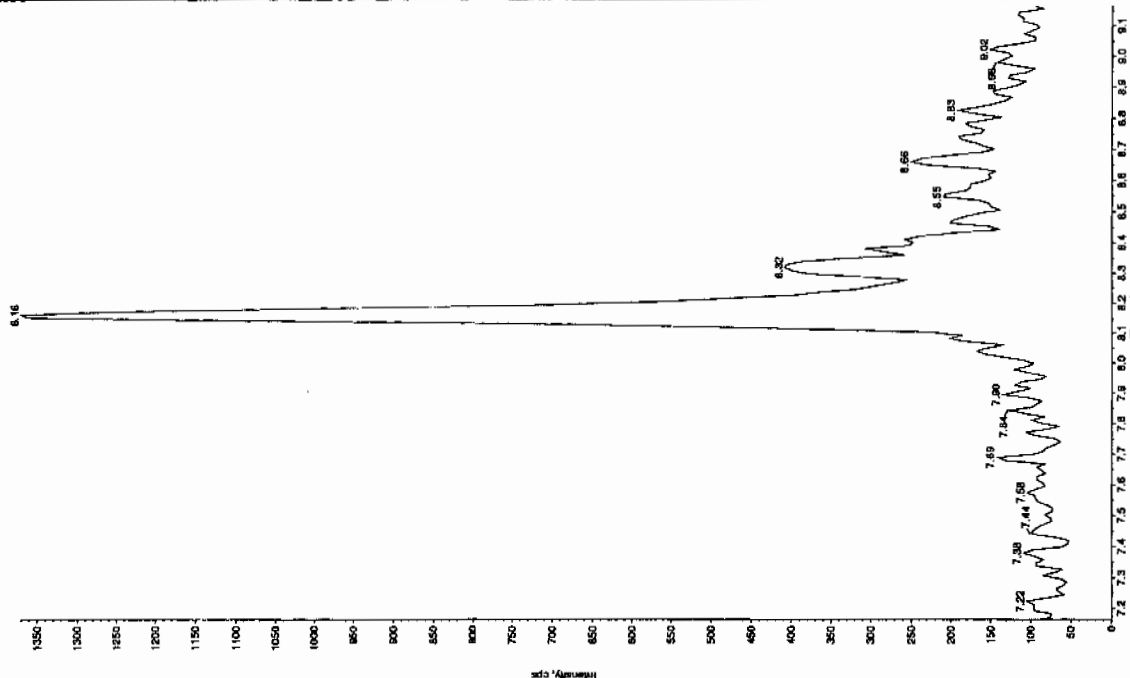
Sample Name: 'XBLK02' Sample ID: '111ER' File: 'EX503120010.wif'
 Peak Name: '35-Chloroaniline' Mass(es): '237.049.9 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentrated: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 6:22:37 PM
 Modified: No



Sample Name: 'XBLK02' Sample ID: '111ER' File: 'EX503120010.wif'
 Peak Name: '35-Chloroaniline' Mass(es): '102.046.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

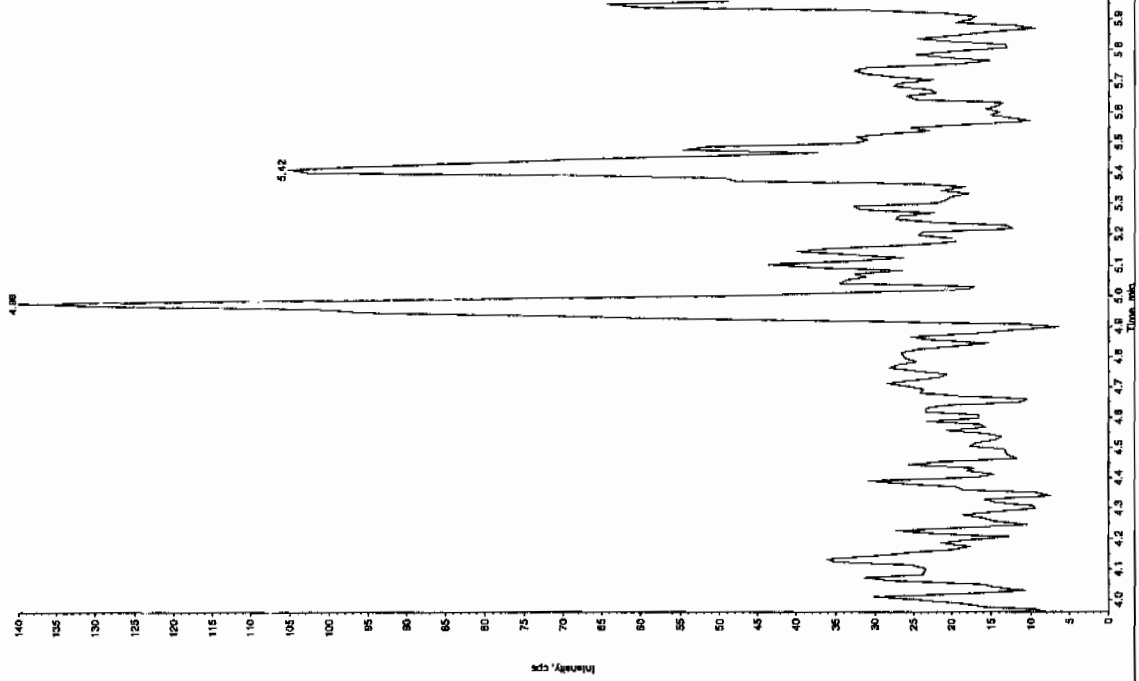
Sample Index: 1
 Sample Type: Unknown
 Concentrated: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 6:22:07 PM
 Modified: No



Jan 21/10

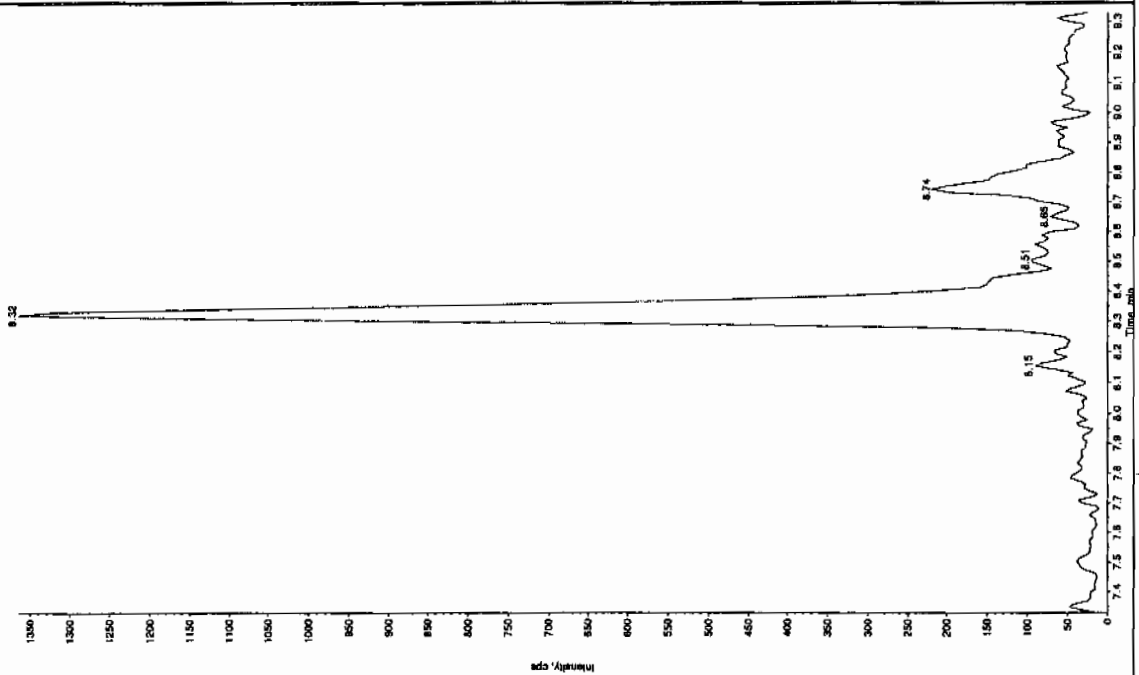
Sample Name: "XBLK02" Sample ID: "JILER" File: "EX503120010.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "156.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 6:22:07 PM
 Modified: No



Sample Name: "XBLK02" Sample ID: "JILER" File: "EX503120010.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1/51.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

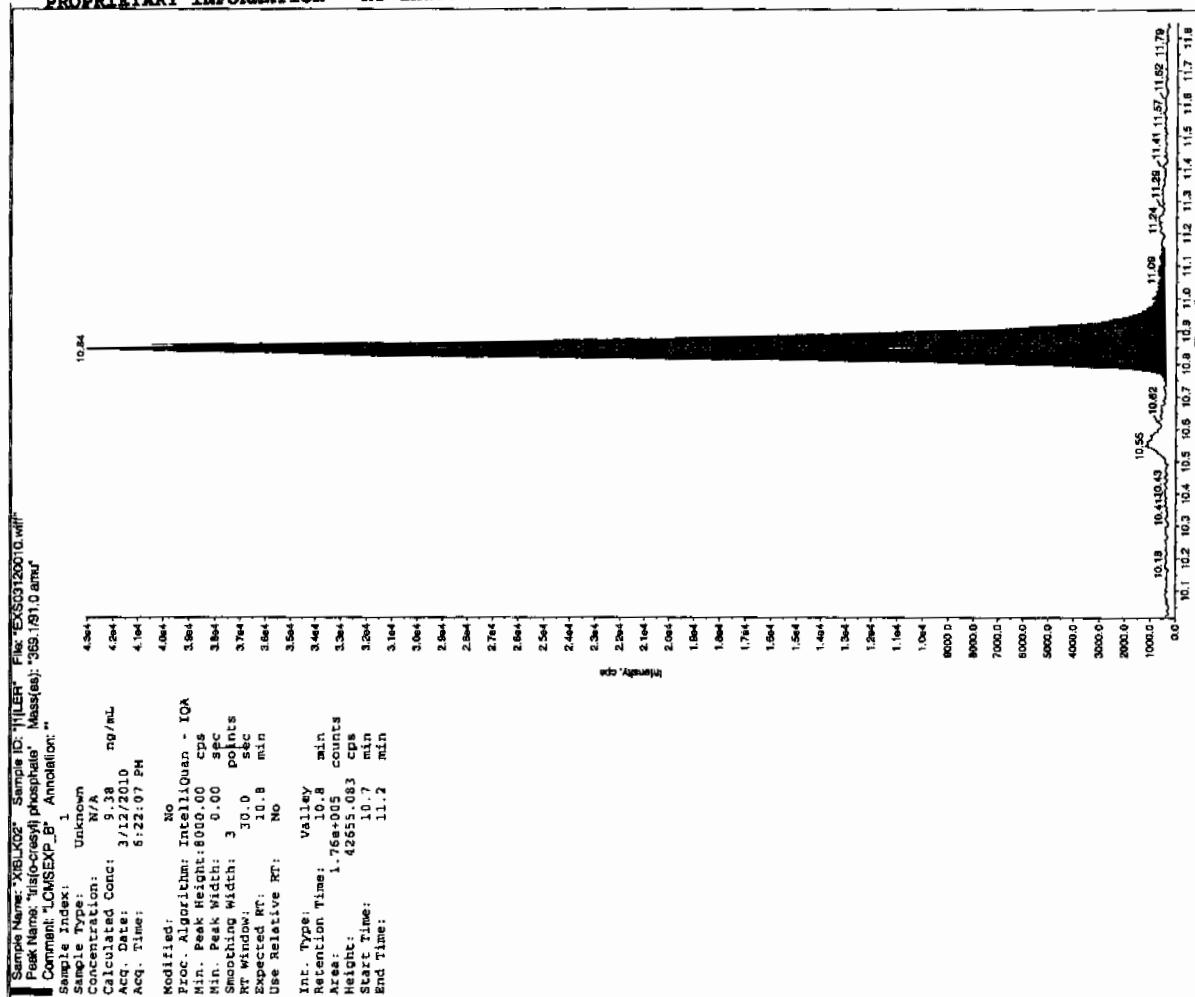
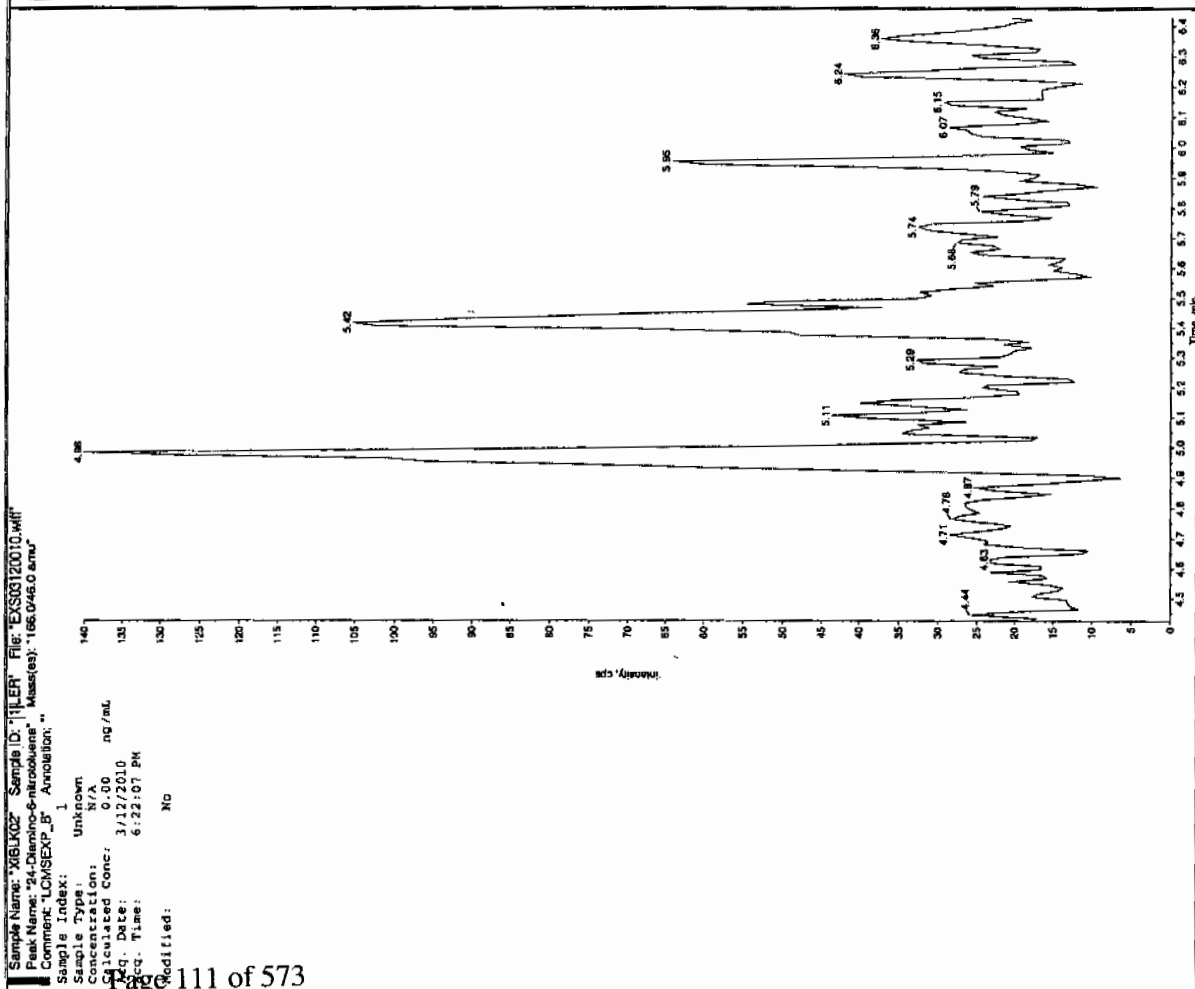
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 6:22:07 PM
 Modified: No



Sample Name: "XBLK02" Sample ID: "11LER" File: "EXS03120010.wif"
 Peak Name: "24-Dinitro-Phenol" Mass(es): "106.046.0 amu"
 Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 6:22:07 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Noise: 1.76e+003 counts
 Height: 42651.083 cps
 Start Time: 0.7 min
 End Time: 11.2 min



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 12-MAR-10 18:53

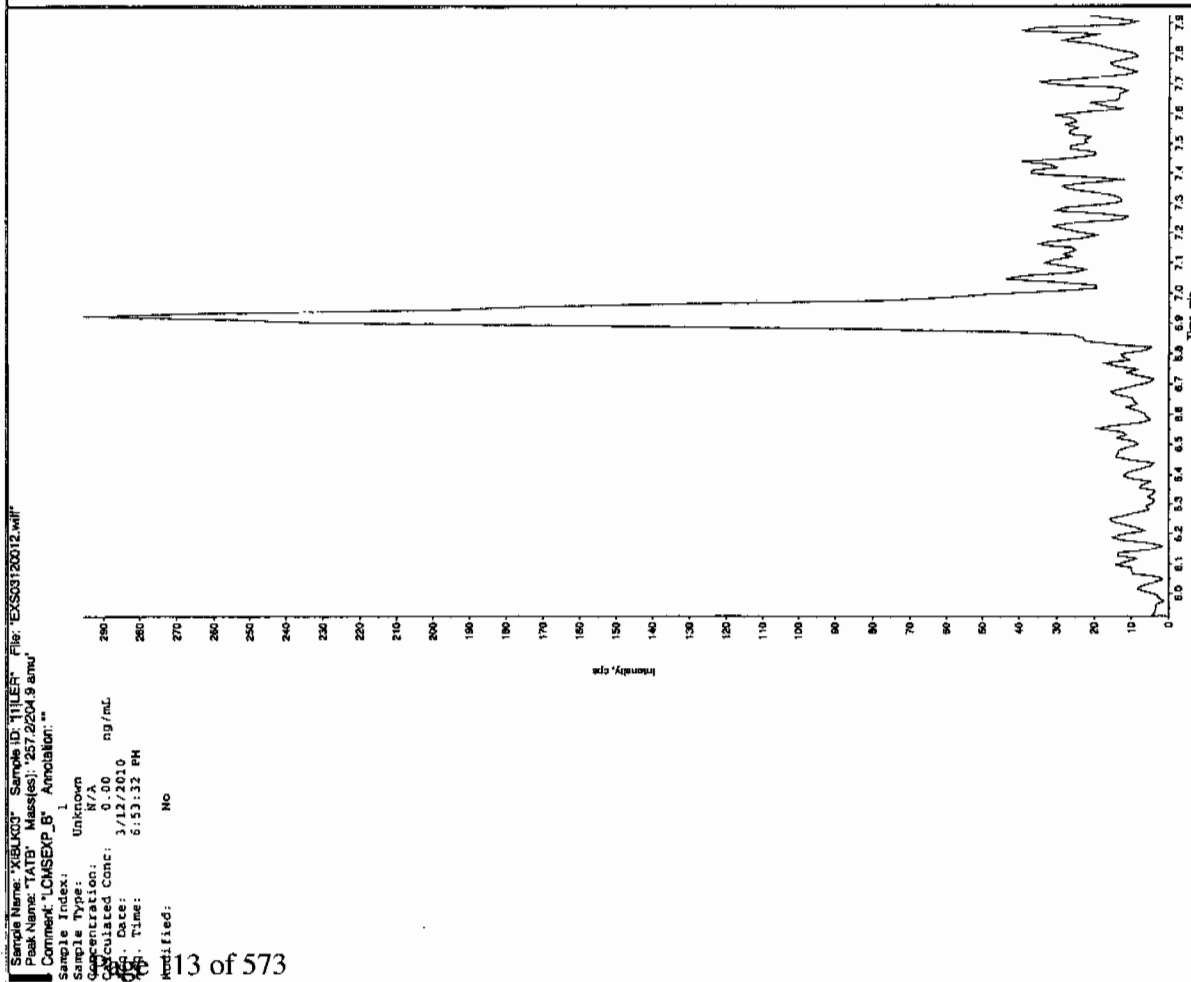
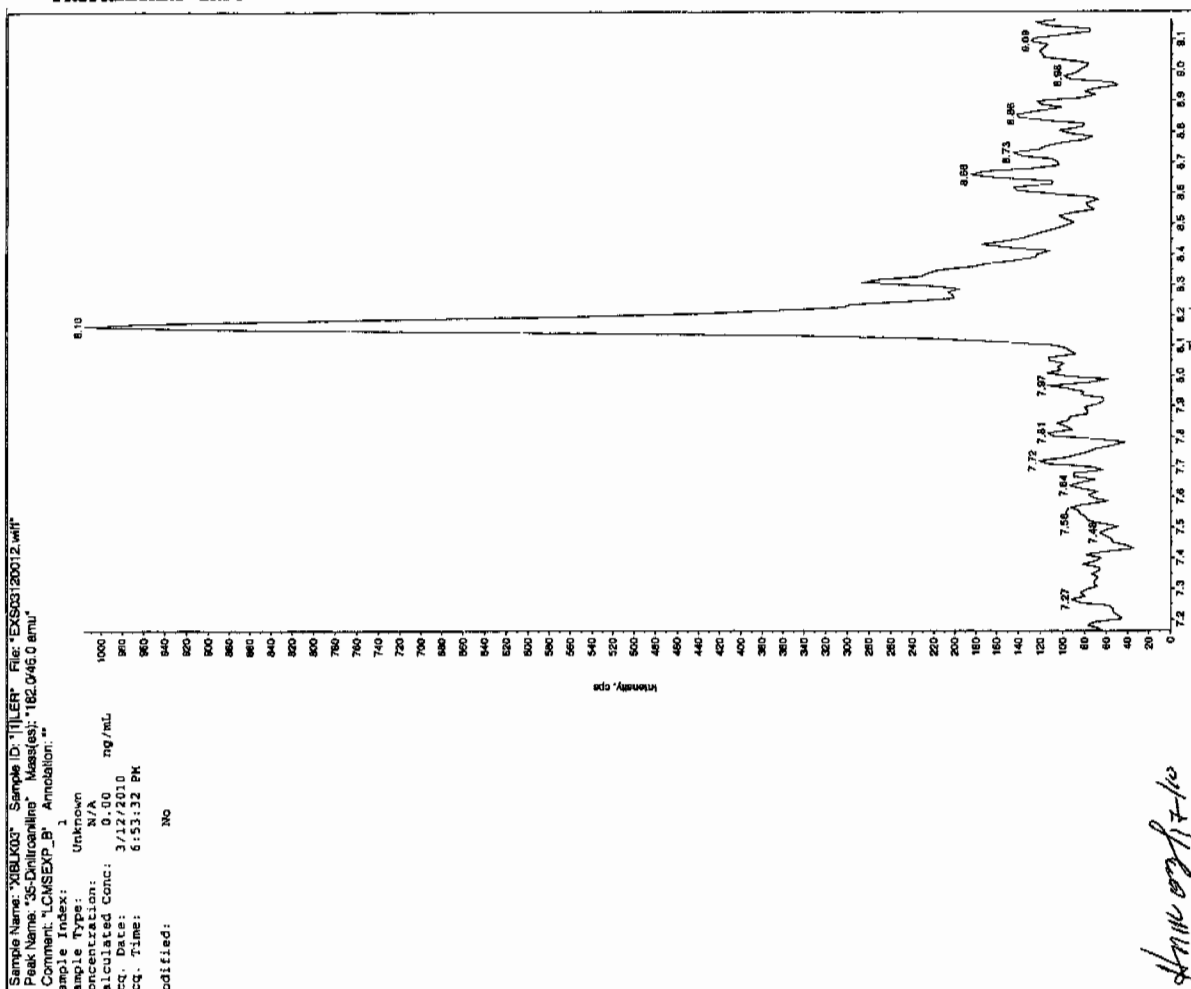
GEL Data File: EXS03120012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	4.5
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

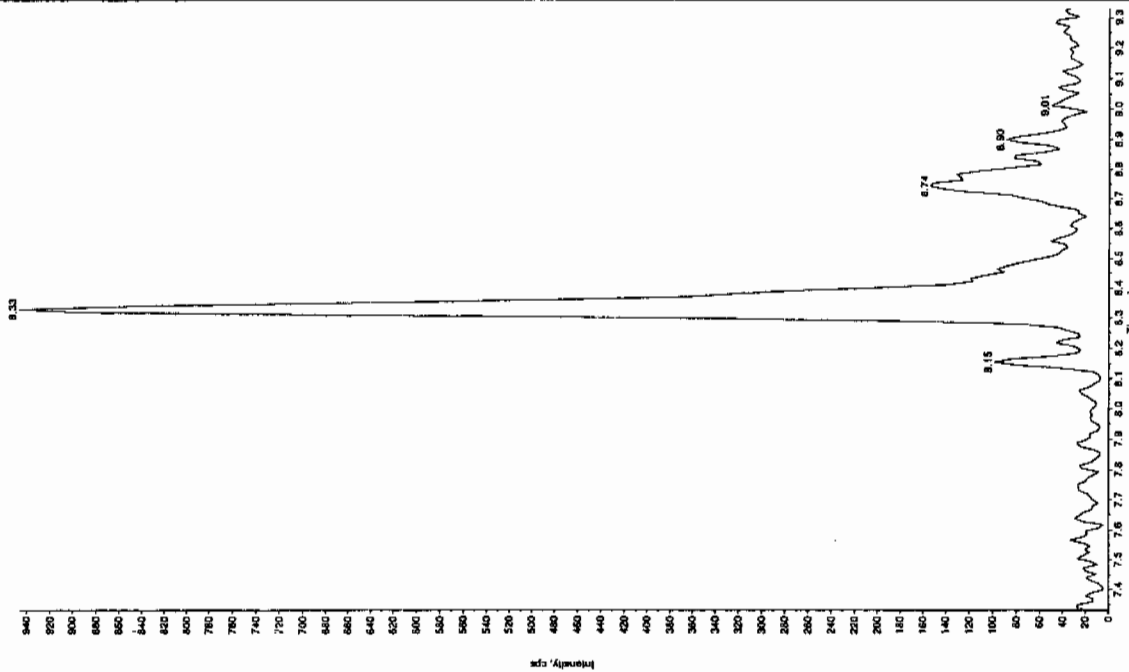
LCN 3/16/10



LCN 3/17/10

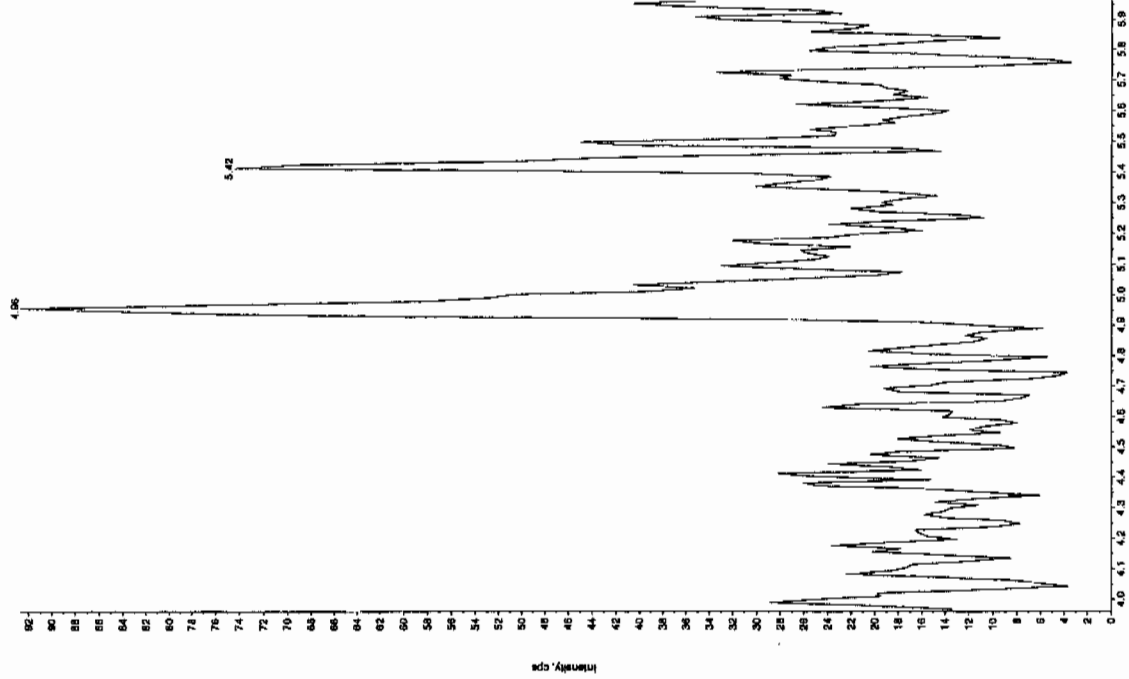
Sample Name: 'XBLK03' Sample ID: '11LEF' File: 'EX303120012.wif'
 Peak Name: '2,6-Diamino-4-nitrobenzene' Mass(es): '182.1751.9 amu'
 Comment: 'LCMS03_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 6:53:32 PM
 Modified: No



Sample Name: 'XBLK03' Sample ID: '11LEF' File: 'EX303120012.wif'
 Peak Name: '2,6-Diamino-4-nitrobenzene' Mass(es): '186.046.0 amu'
 Comment: 'LCMS03_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 6:53:32 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 12-MAR-10 22:17

GEL Data File: EXS03120025.wiff

Instrument ID: LCMSMS

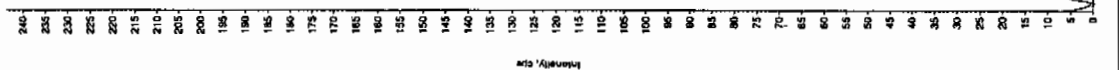
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	4.06
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

LC 3110110

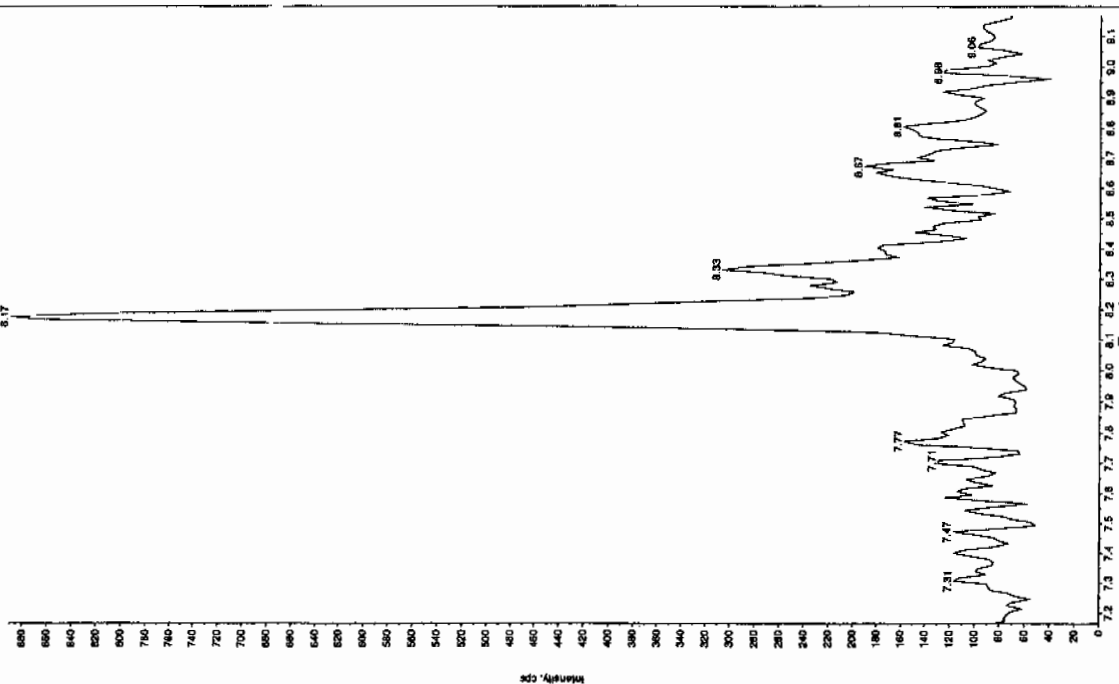
Sample Name: "XIBLK04" Sample ID: "111ER" File: "EX03120025.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 10:17:42 PM
 Acq. Time: 10:17:42 PM
 Modified: No

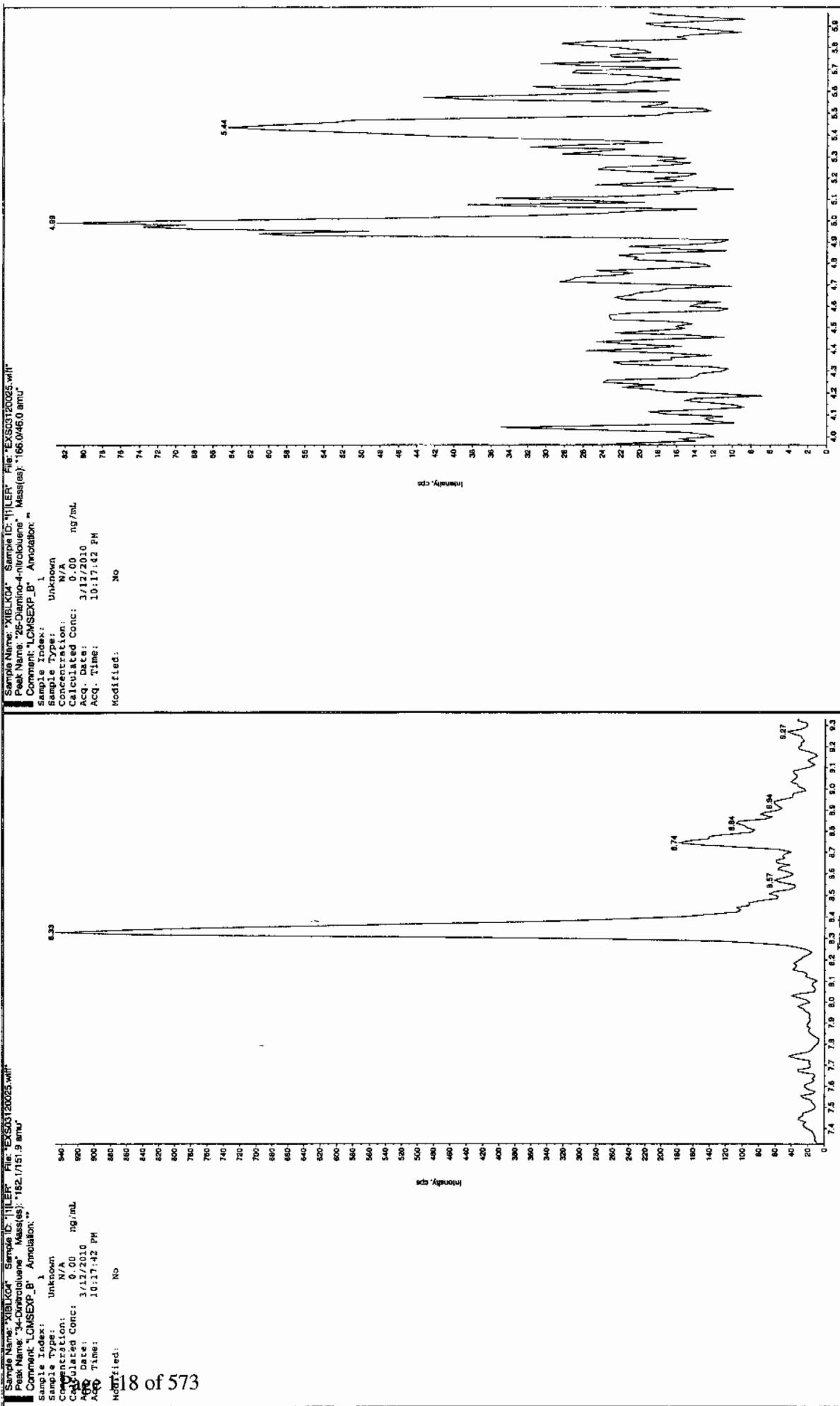


Sample Name: "XIBLK04" Sample ID: "111ER" File: "EX03120025.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "192.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/12/2010
 Acq. Date: 10:17:42 PM
 Acq. Time: 10:17:42 PM
 Modified: No

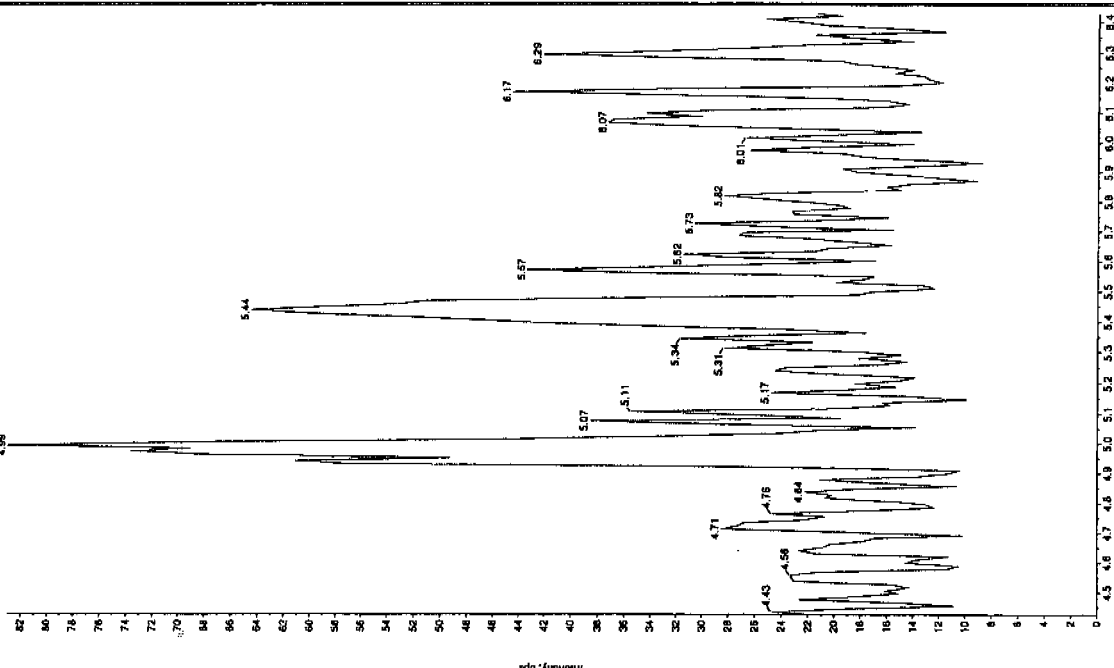


LC 3110110



Sample Name: "XBLUG4" Sample ID: "11LER" File: "EXS03120025.wif"
 Peak Name: "thio(oxo)phosphate" Mass(es): "162.046.0 amu"
 Comment: "LCMSXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:17:42 PM
 Modified: No

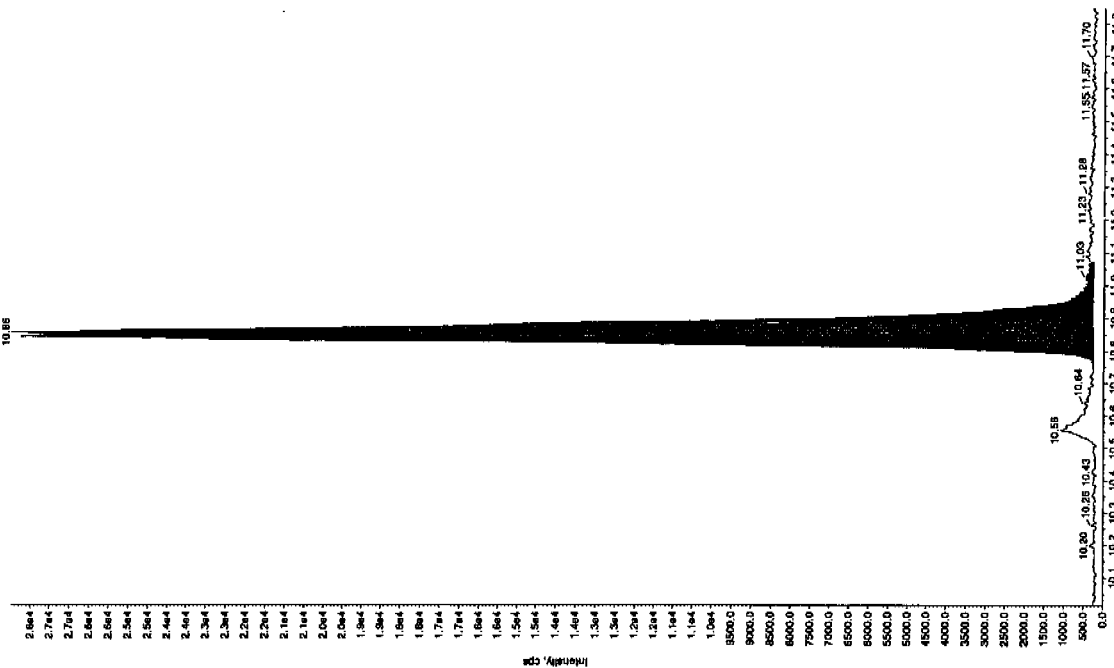


Sample Name: "XBLUG4" Sample ID: "11LER" File: "EXS03120025.wif"
 Peak Name: "thio(oxo)phosphate" Mass(es): "366.191.0 amu"
 Comment: "LCMSXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 4.06 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:17:42 PM
 Modified: No

Proc. Algorithm: IntelliQuan 4 IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.13e+005 counts
 Height: 27734.175 cps
 Start Time: 10.7 min
 End Time: 11.1 min



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 13-MAR-10 01:41

GEL Data File: EXS03120038.wiff

Instrument ID: LCMSMS

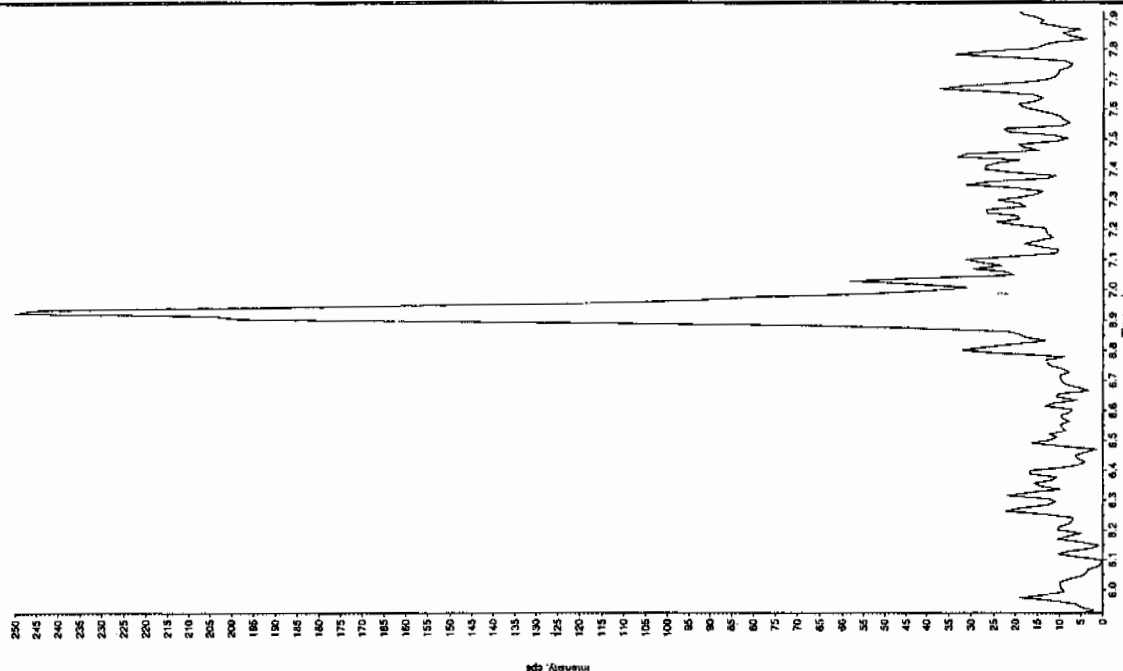
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.41
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3116110

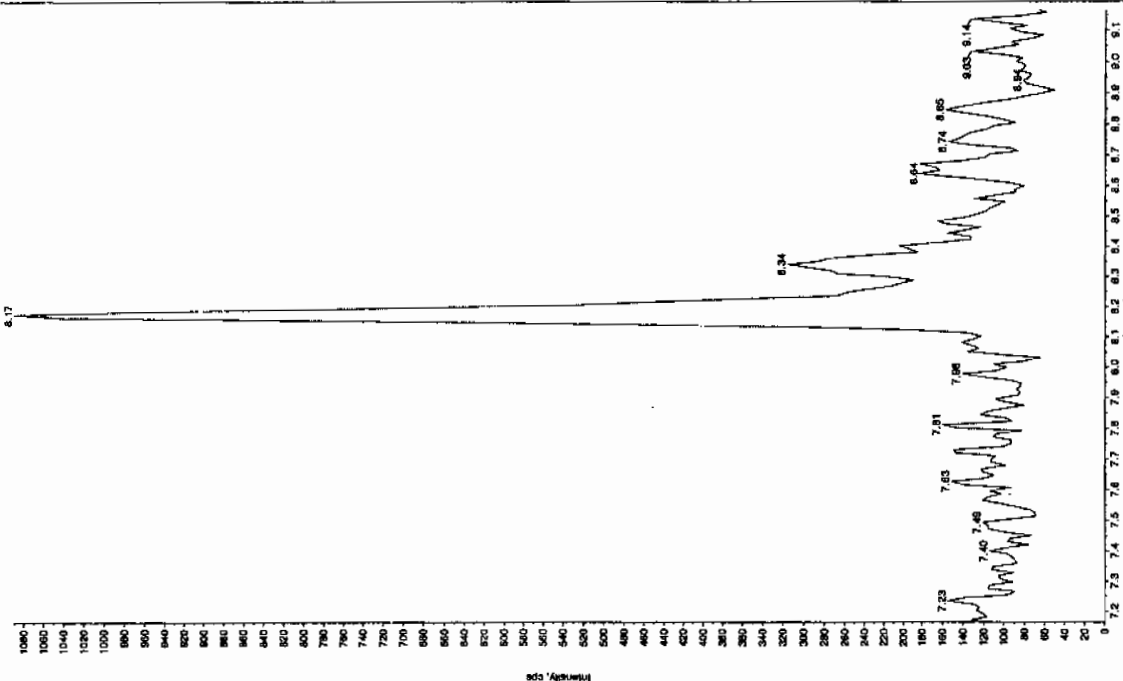
Sample Name: "XIBLX05" Sample ID: "T1LER" File: "EXS03120038.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:41:50 AM
 Modified: No



Sample Name: "XIBLX05" Sample ID: "T1LER" File: "EXS03120038.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

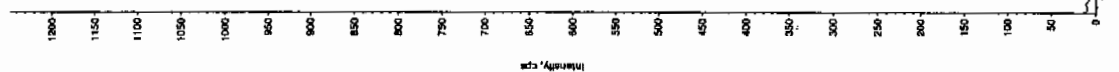
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:41:50 AM
 Modified: No



See 3116110

Sample Name: "XBL005" Sample ID: "HLEP" File: "EX03120038.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): 182.151.9 amu
 Comment: "LCMEXP.B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 1:41:50 AM
 Acq. Time: 1:41:50 AM
 Modified: No



Sample Name: "XBL005" Sample ID: "HLEP" File: "EX03120038.wif"
 Peak Name: "25-Diamino-4-nitrofluorene" Mass(es): 186.046.0 amu
 Comment: "LCMEXP.B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 1:41:50 AM
 Acq. Time: 1:41:50 AM
 Modified: No



Sample Name: "XIBUK05" Sample ID: "11LER" File: "EX503120038.wif"
 Peak Name: "24-Dienno-6-nitrobenzene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:41:59 AM
 Modified: No

Proc. Algorithm: InCelliQuan - 10A
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No

Int. Type: Valley

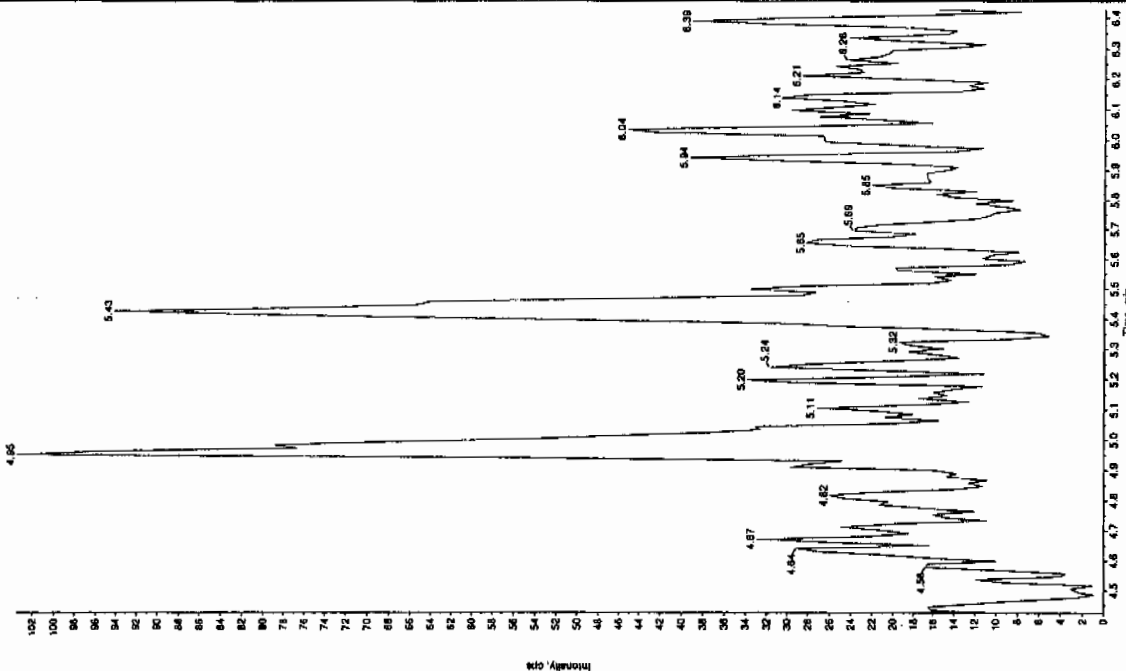
Retention Time: 10.8 min
 Area: 1.05e+005 counts
 Height: 25751.91 cps
 Start Time: 10.7 min
 End Time: 11.0 min

Sample Name: "XIBUK05" Sample ID: "11LER" File: "EX503120038.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Acq. Date: 3/13/2010
 Acq. Time: 1:41:59 AM
 Modified: No

Proc. Algorithm: InCelliQuan - 10A
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.05e+005 counts
 Height: 25751.91 cps
 Start Time: 10.7 min
 End Time: 11.0 min



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 13-MAR-10 03:16

GEL Data File: EXS03120044.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.19
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3/16/10

Sample Name: "XBLK06" Sample ID: "TATB" File: "EXS0312004.wiff"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

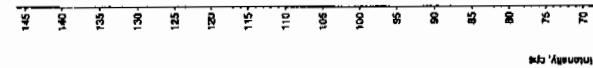
Concentration: 0.00 ng/mL

Calculated Conc: 3/13/2010

Acq. Date: 3/16/06 AM

Acq. Time: 3:16:06 AM

Modified: No



Sample Name: "XBLK06" Sample ID: "TATB" File: "EXS0312004.wiff"

Peak Name: "3S-Dinitroaniline" Mass(es): "192.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

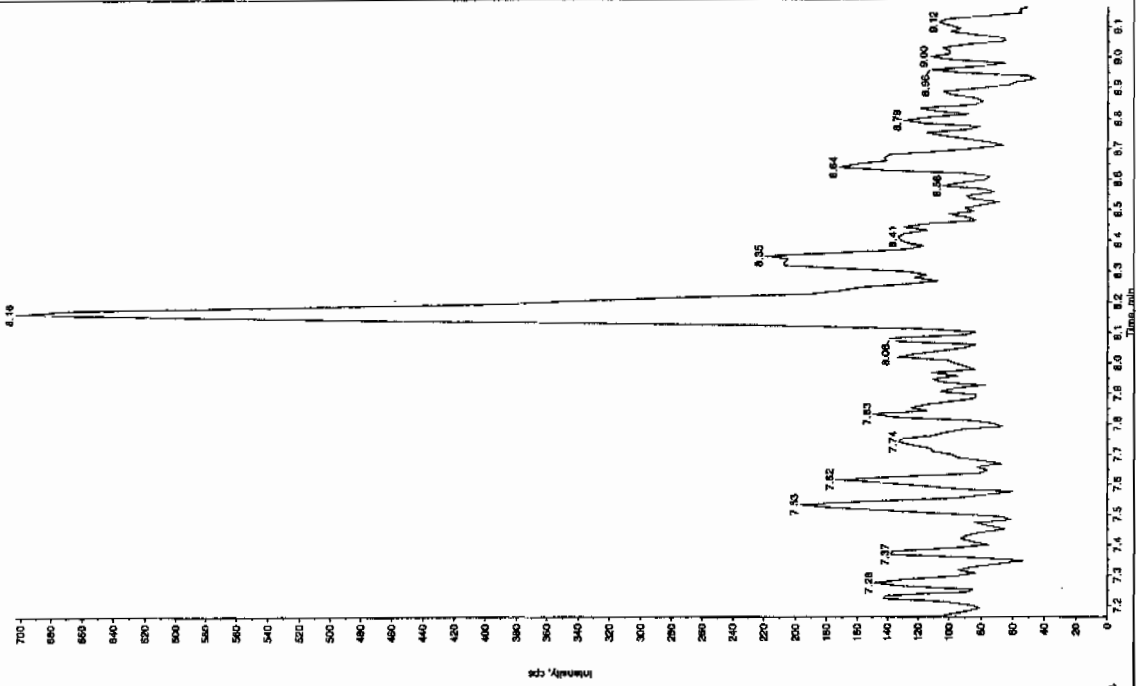
Concentration: 0.00 ng/mL

Calculated Conc: 3/13/2010

Acq. Date: 3/16/06 AM

Acq. Time: 3:16:06 AM

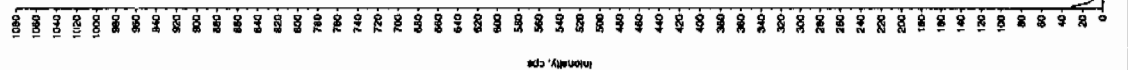
Modified: No



Run 03/17/10

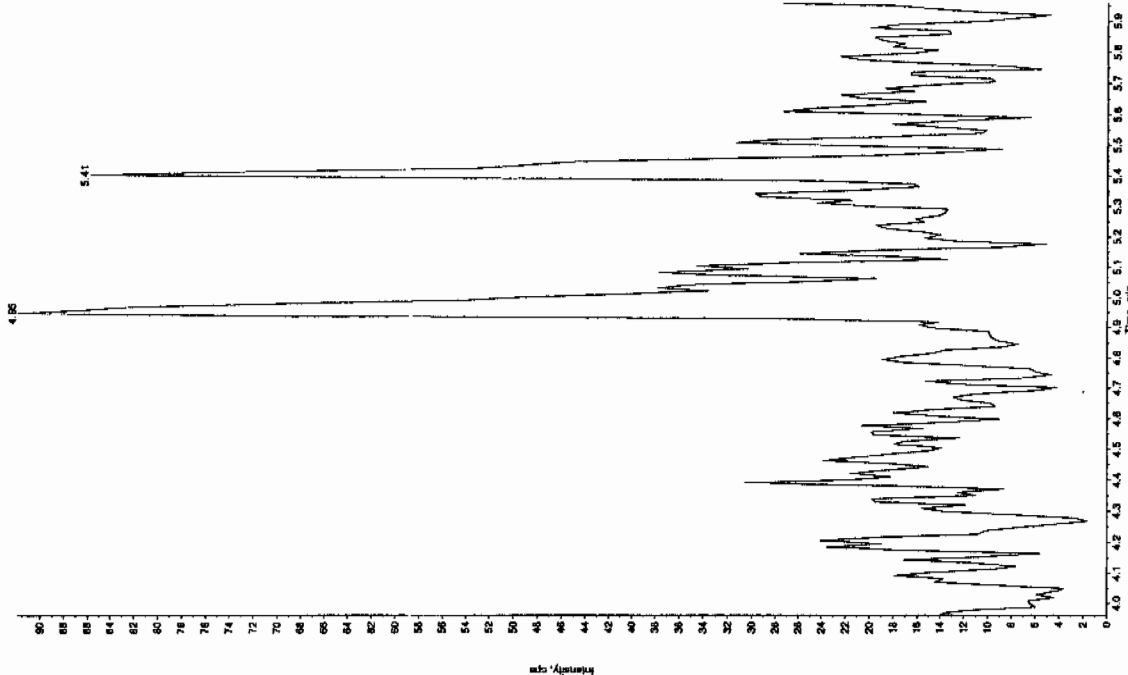
Sample Name: "XBLK06" Sample ID: "111ER" File: "EXS03120044.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1715.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Date: 3/13/2010
 Acq. Time: 3:16:06 AM
 Modified: No



Sample Name: "XBLK06" Sample ID: "111ER" File: "EXS03120044.wif"
 Peak Name: "26-Dinitro-4-nitrobenzene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

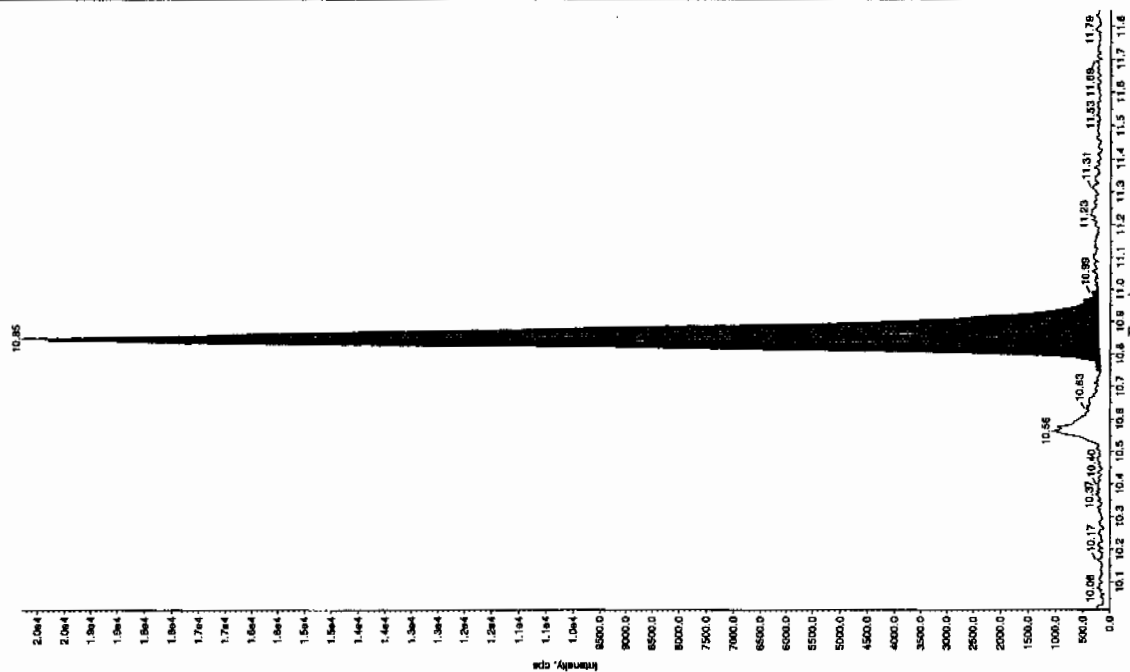
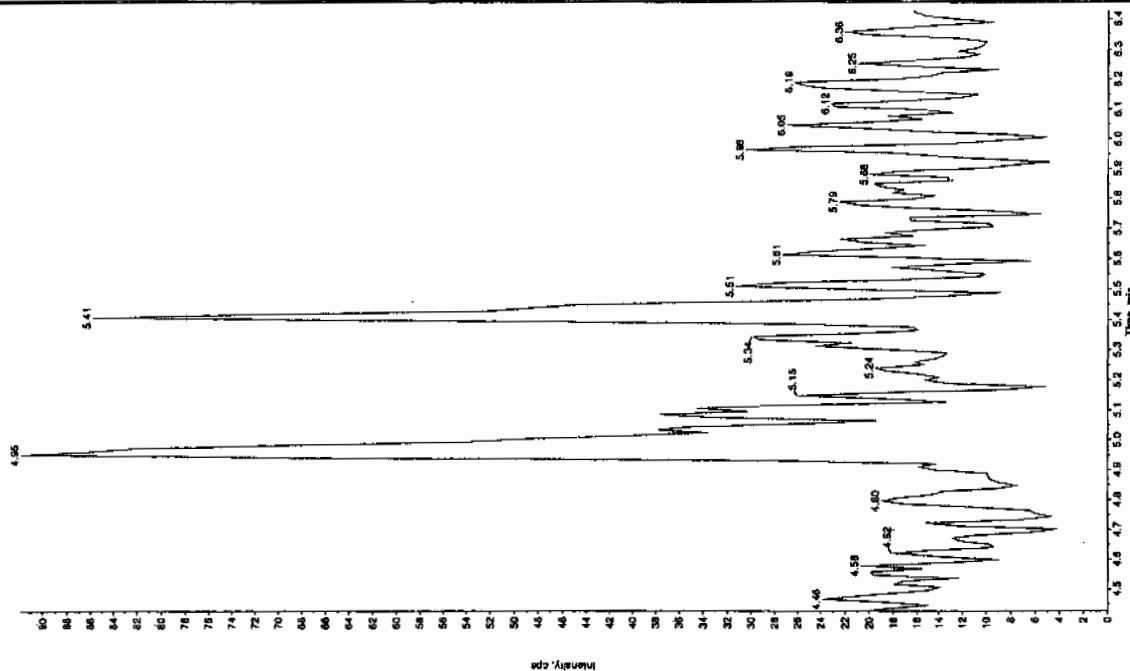
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Date: 3/13/2010
 Acq. Time: 3:16:06 AM
 Modified: No



Sample Name: "XIBLK06" Sample ID: "11LER" File: "EXSG3120044.wif"
Peak Name: "24-Diamino-6-nitrofluene" Mass(es): "165.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: "

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00
Exp. Date:	3/13/2010
Exp. Time:	3:15:06 AM
Modified:	No
	ng/mL

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	1.19 ng/mL	
Acq. Date:	3/13/2010	
Acq. Time:	3:16:06 AM	
Modified:	No	
Proc. Algorithm:	IntelliQuan - IOA	
Min. Peak Height:	800.0 cps	
Min. Peak Width:	3.00 sec	
Min. Peak Width:	3.00 sec	
Smoothing Width:	points	
RT Window:	30.0 sec	
Expected RT:	10.8 min	
Use Relative RT:	No	
Int. Type:	Valley	
Retention Time:	10.9 min	
Area:	7,826,004	
Counts:	20884,707 cps	
Height:	10.7 min	
Start Time:	11.0 min	
End Time:	11.0 min	



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 13-MAR-10 05:06

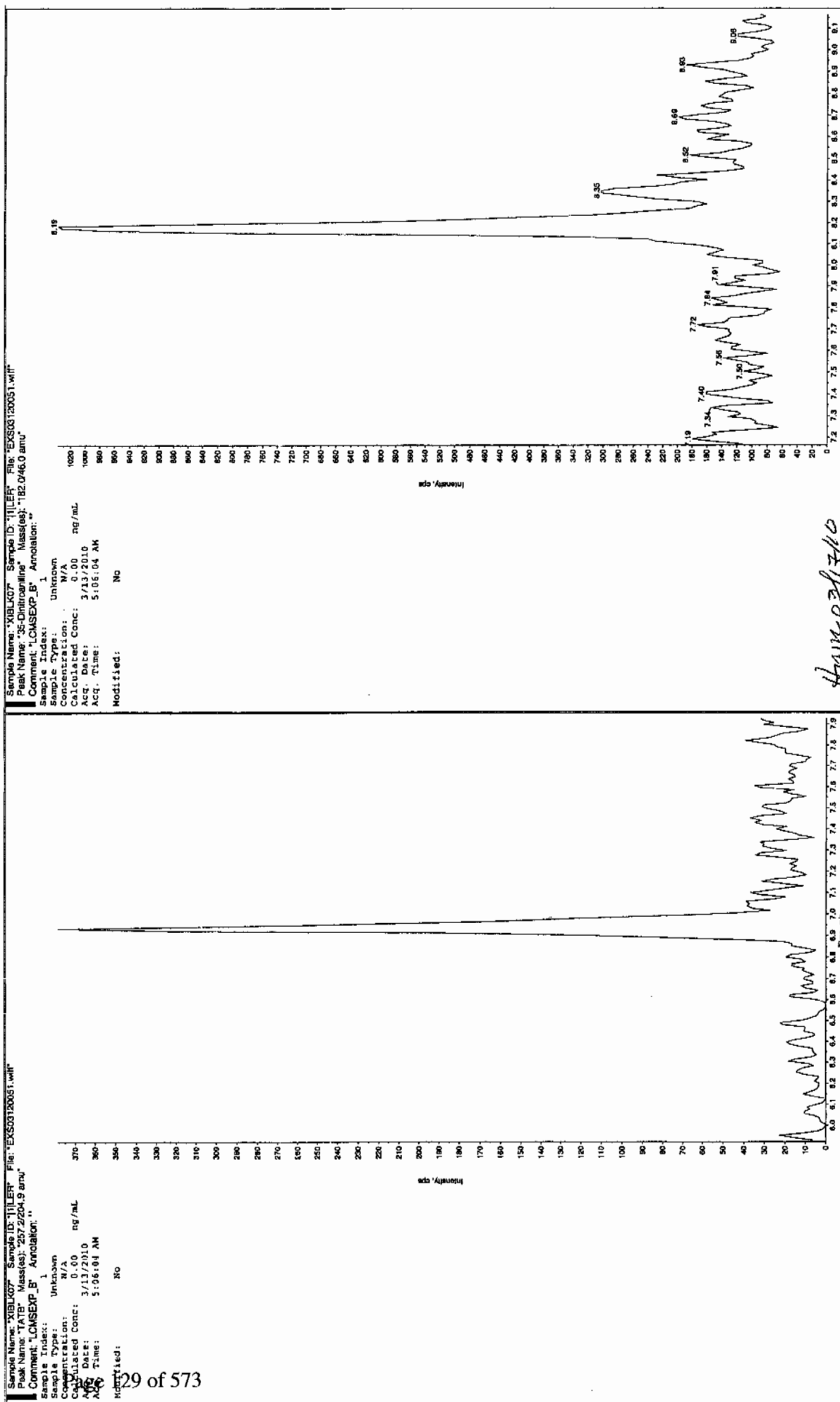
GEL Data File: EXS03120051.wiff

Instrument ID: LCMSMS

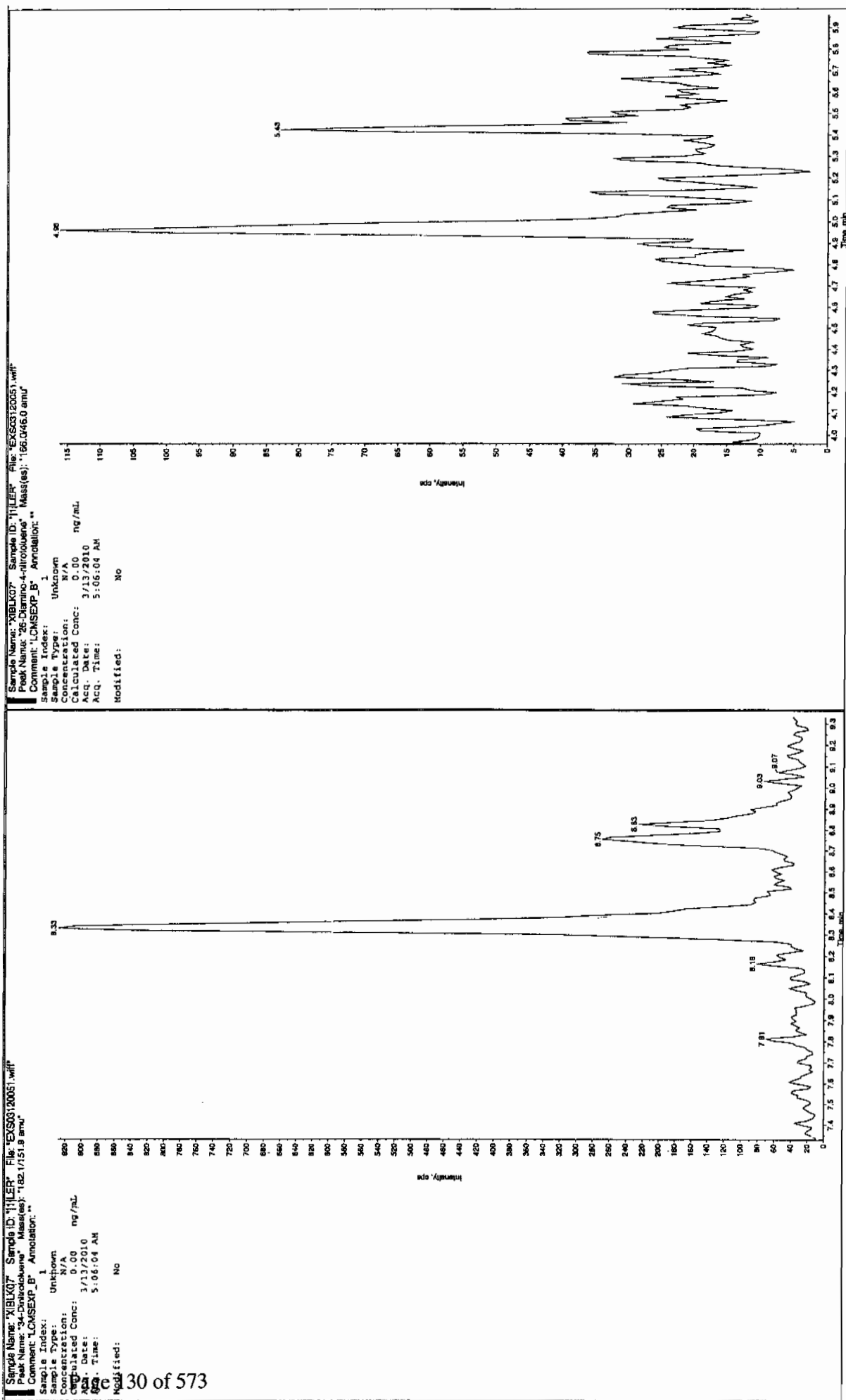
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	4.81
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3116110



Run 3116110

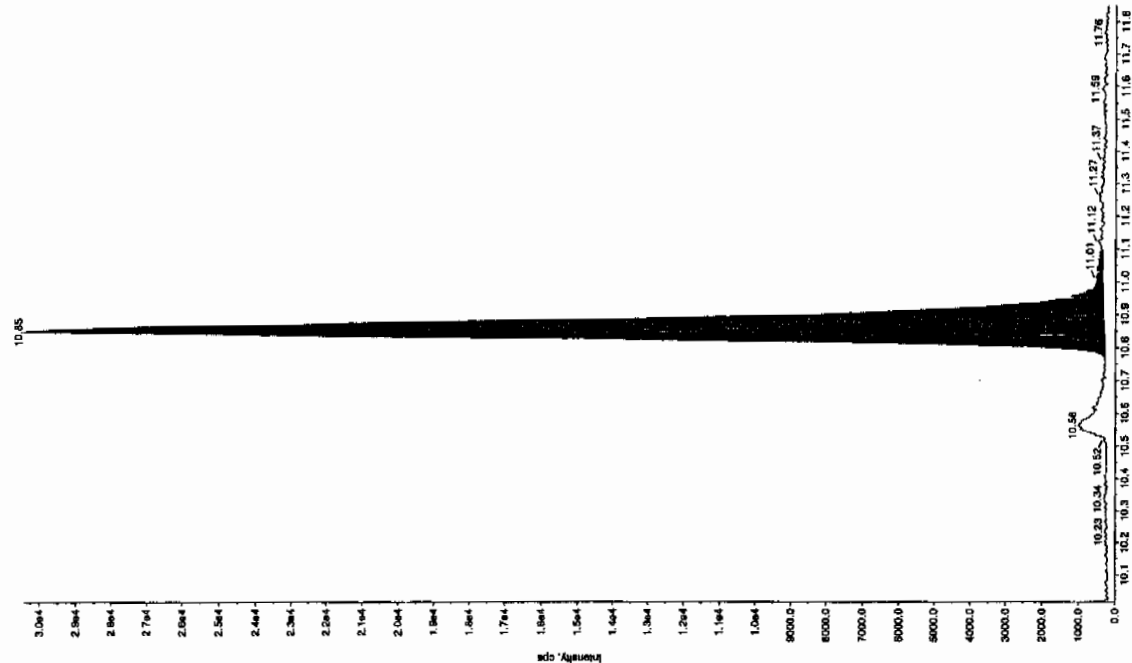
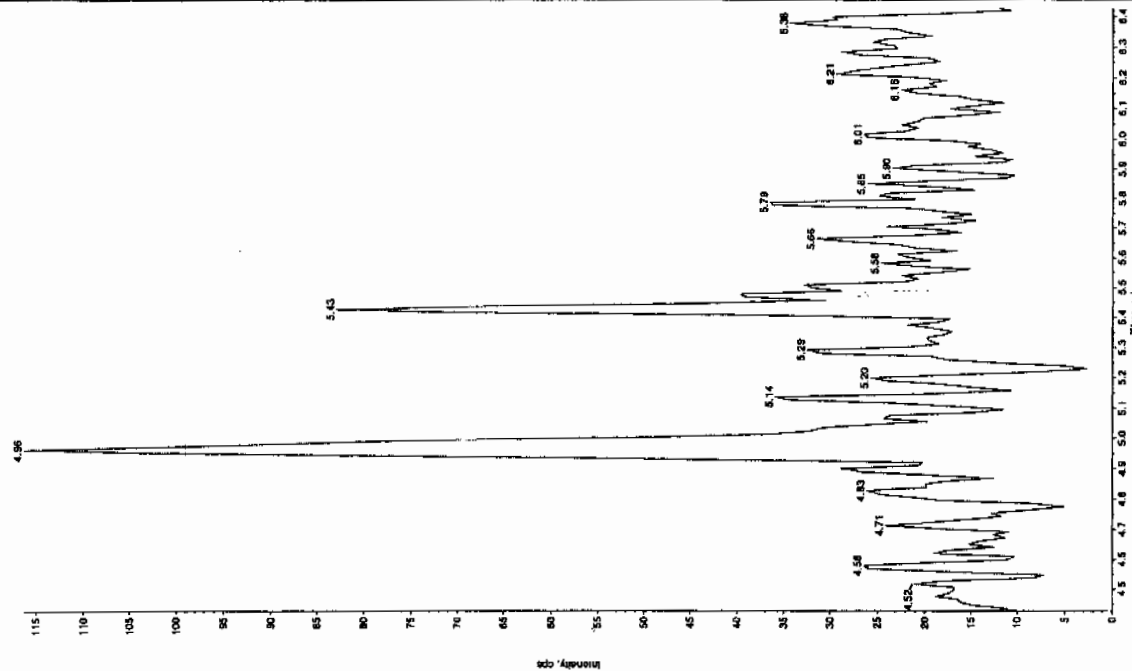


Sample Name: 'XBLK07' Sample ID: '111ER' File: 'EX303120031.wif'
 Peak Name: '24-Diamino-5-nitrobenzoic acid' Mass(es): '166.046.0 amu'
 Comment: 'LCMS-EXP-B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 5:06:04 AM
 Modified: No

Sample Index: 1
 Sample Type: Unknown
 Concentration: 4.81 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 5:06:04 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.22e+005 counts
 Height: 30129.549 cps
 Start Time: 0.0 min
 End Time: 11.1 min



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 13-MAR-10 08:30

GEL Data File: EXS03120064.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	4.1
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

file 3/16/10

Sample Name: "XBLK08" Sample ID: "TILER" File: "EX503120064.wif"

Peak Name: "TATB" Mass(es): "257.29249 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

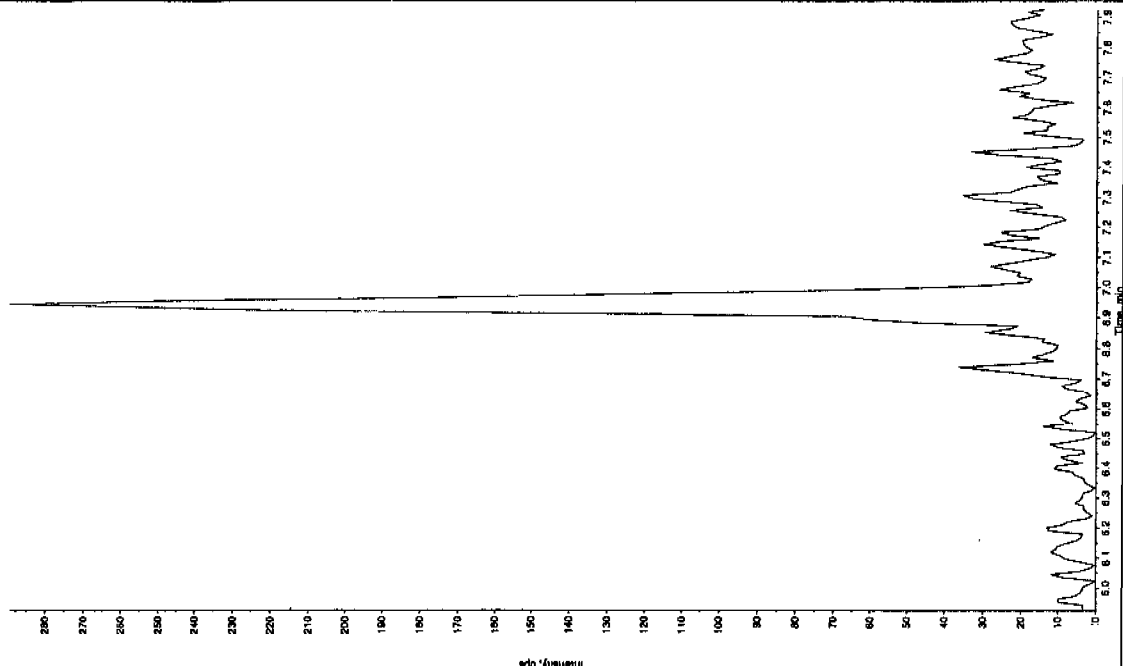
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acquisition Date: 3/13/2010

Acq. Time: 8:30:18 AM

Modified: No



Sample Name: "XBLK08" Sample ID: "TILER" File: "EX503120064.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

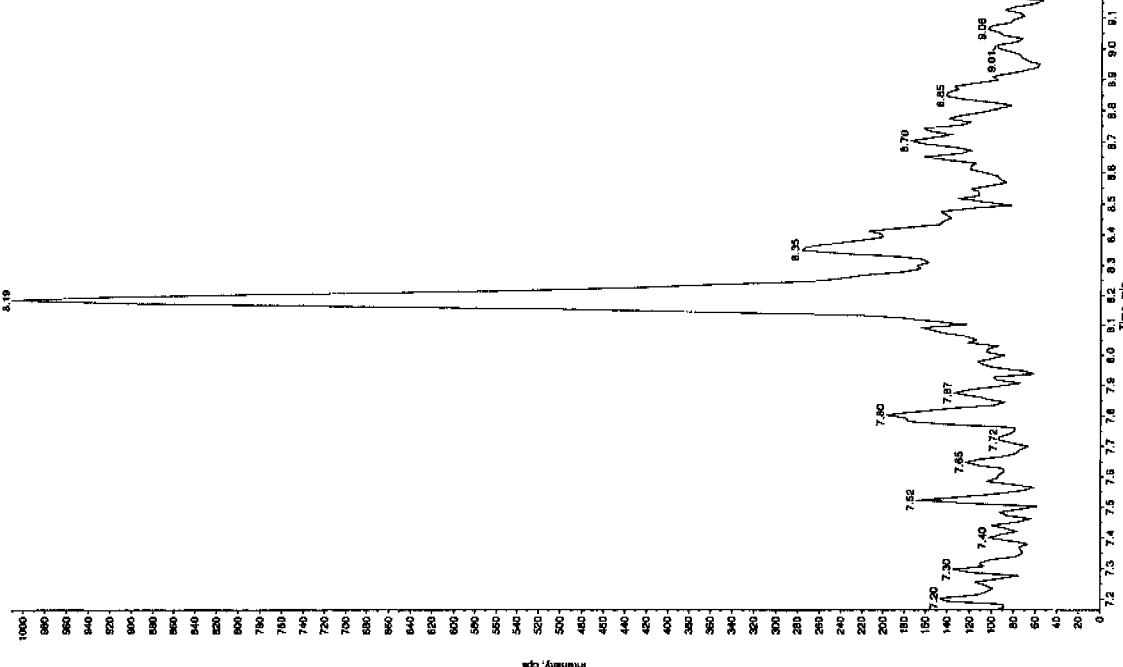
Sample Type: Unknown

Concentration: N/A

Acquisition Date: 3/13/2010

Acq. Time: 8:30:18 AM

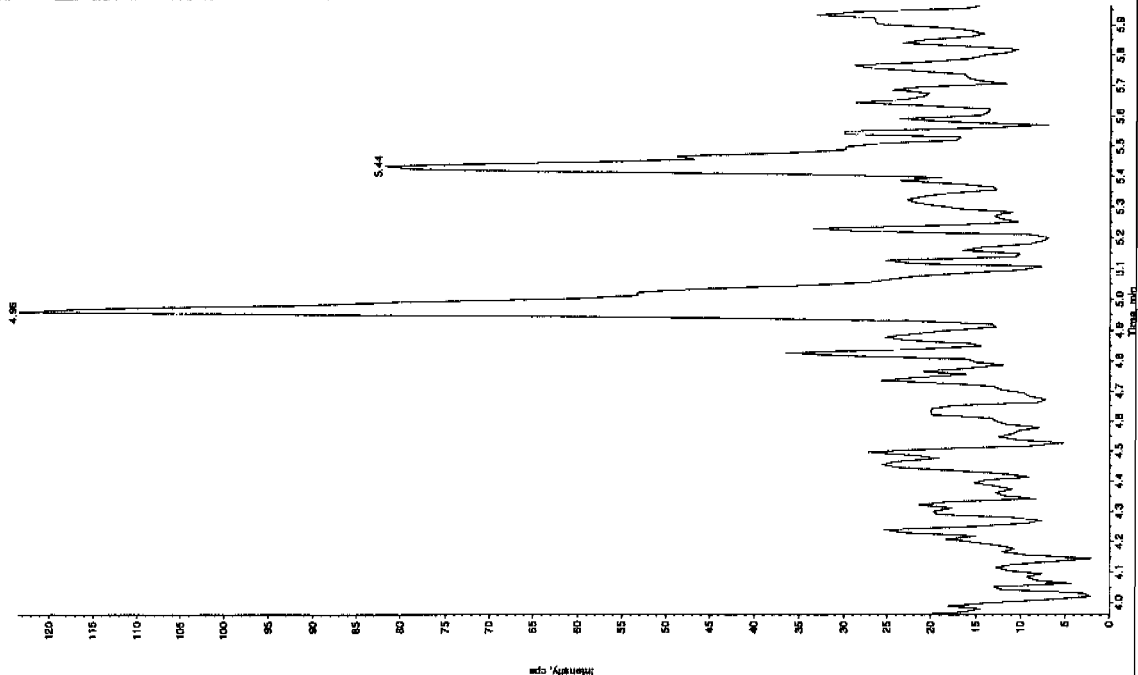
Modified: No



file 03/17/10

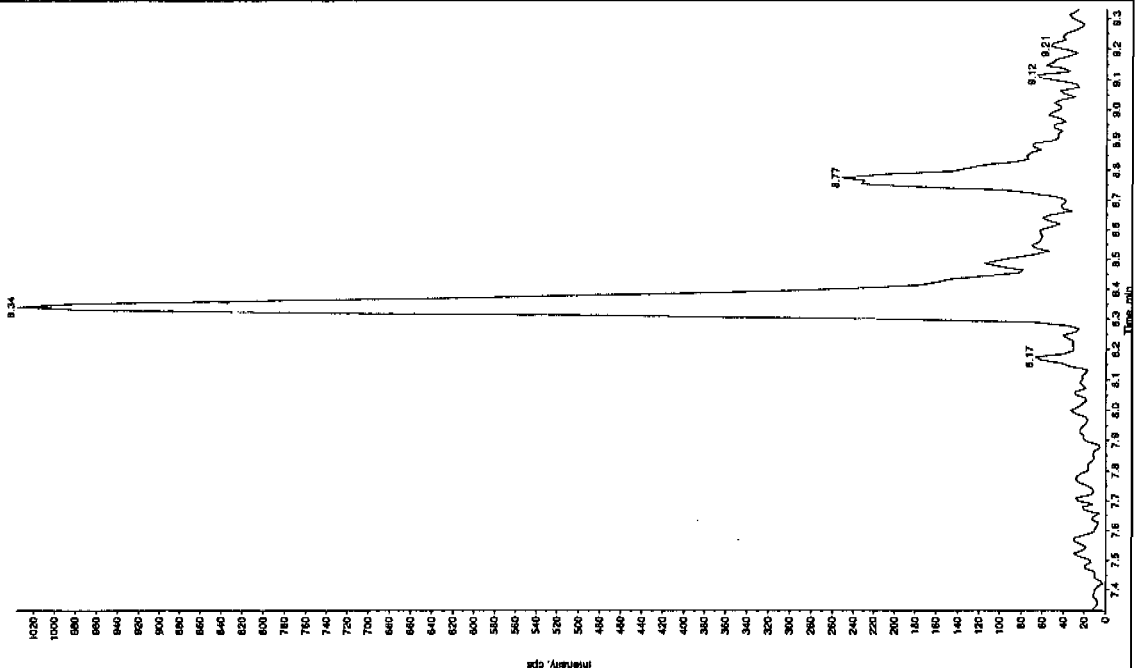
Sample Name: "XIBLK09" Sample ID: "11LER" File: "EXS03120064.wit"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:30:16 AM
 Modified: No



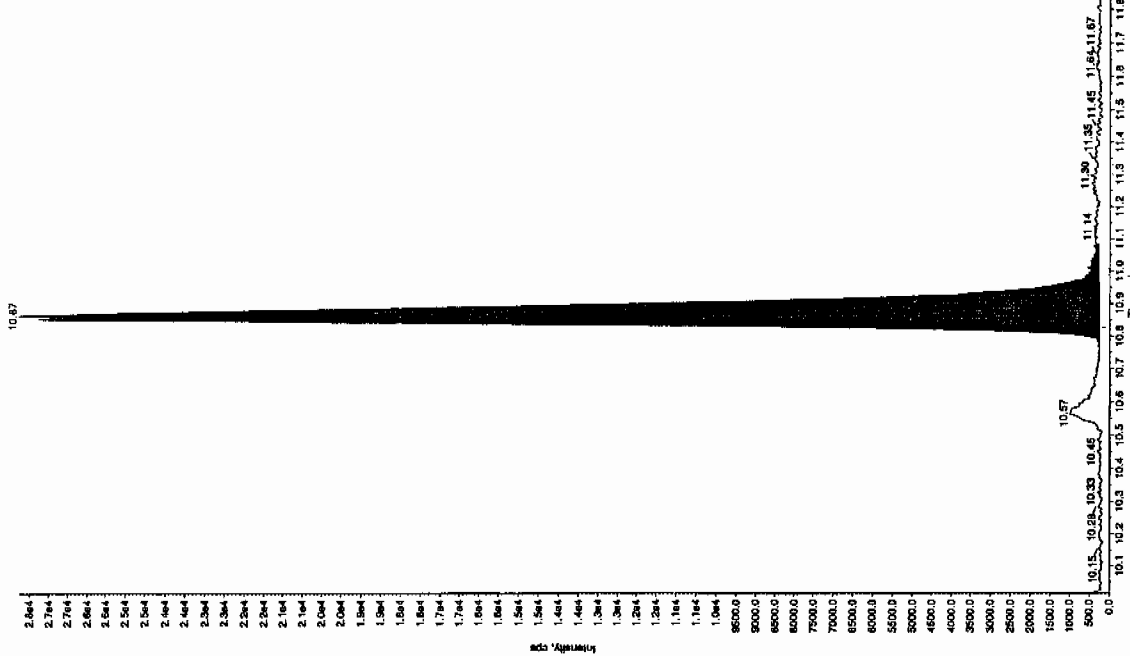
Sample Name: "XIBLK09" Sample ID: "11LER" File: "EXS03120064.wit"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:30:16 AM
 Modified: No



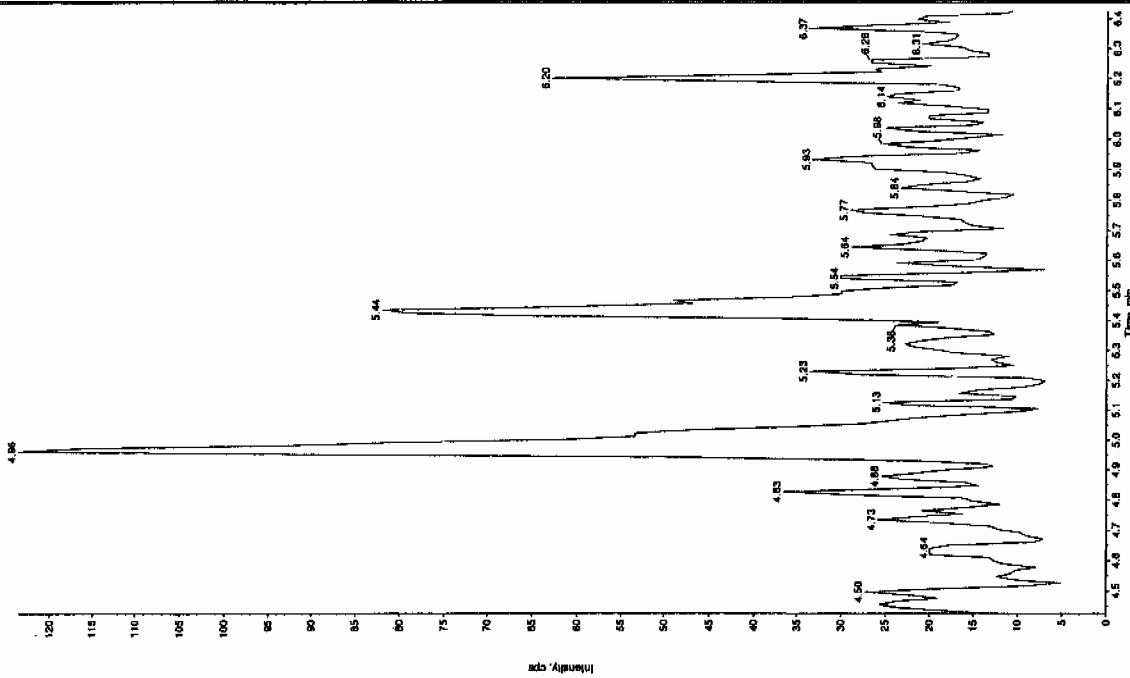
Sample Name: "XIBLK08" Sample ID: "111ER" File: "EX503120064.wit"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 4.10 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:30:18 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 6000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.13e+005 counts
 Height: 27518.103 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBLK08" Sample ID: "111ER" File: "EX503120064.wit"
 Peak Name: "24-Diamino-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: 3/13/2010
 Acq. Time: 8:30:18 AM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2071

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 13-MAR-10 10:35

GEL Data File: EXS03120072.wiff

Instrument ID: LCMSMS

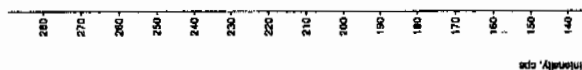
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.35
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/10/10

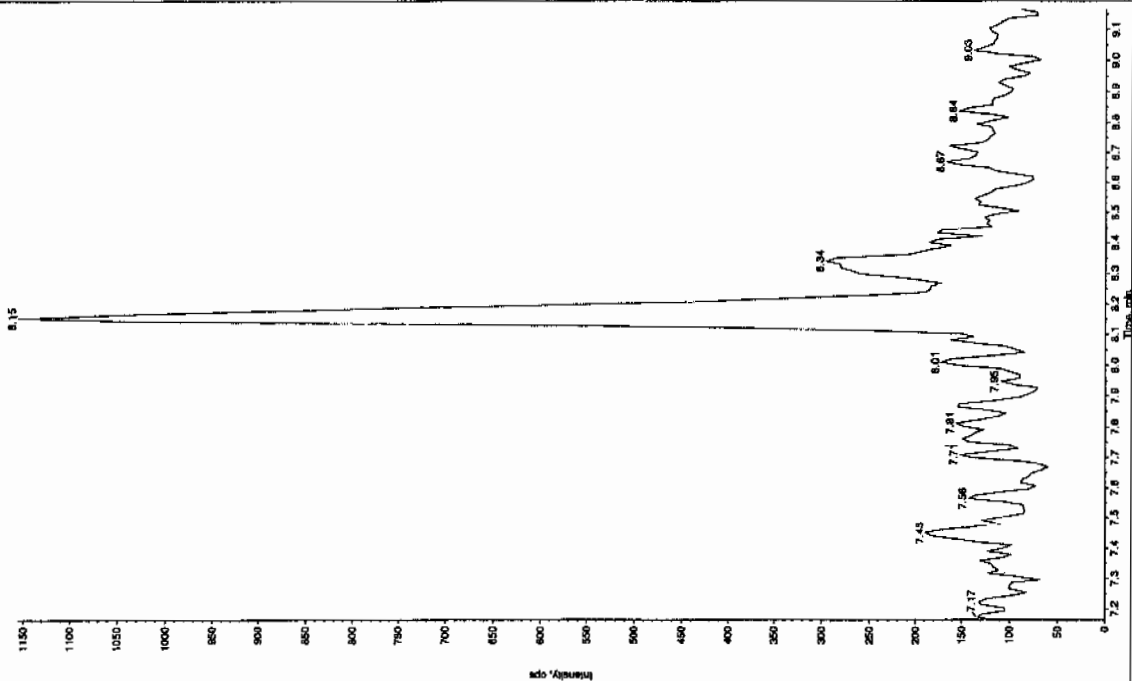
Sample Name: "XBLK09" Sample ID: "TILER" File: "EX503120072.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:35:57 AM
 Modified: No

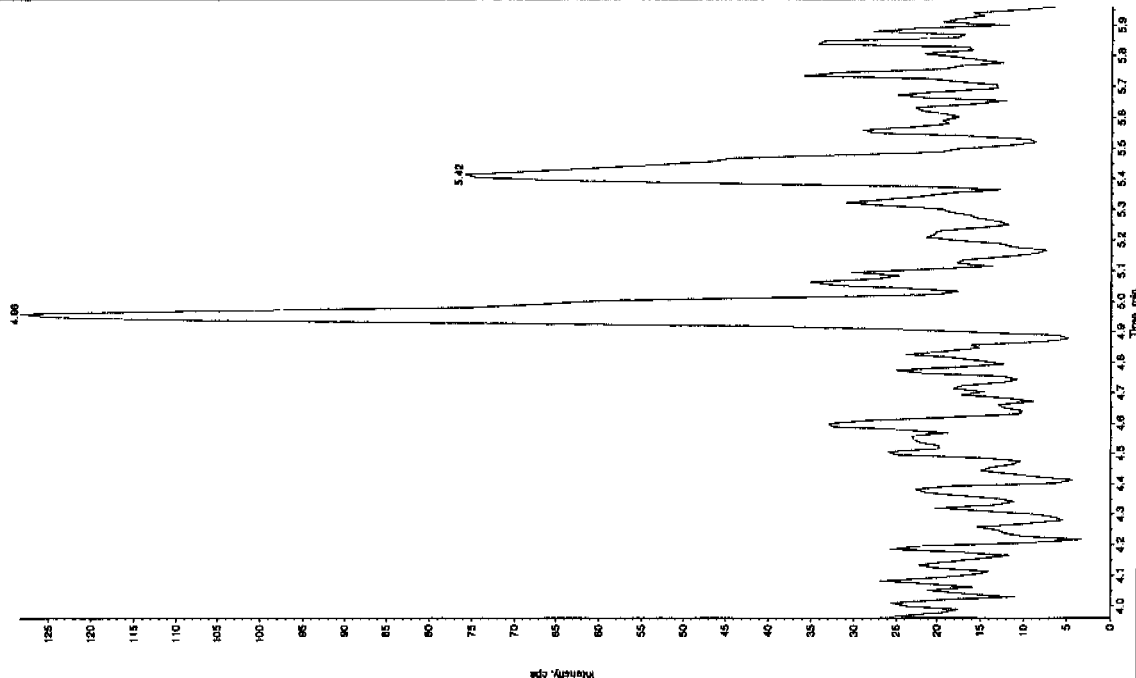


Sample Name: "XBLK09" Sample ID: "TILER" File: "EX503120072.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

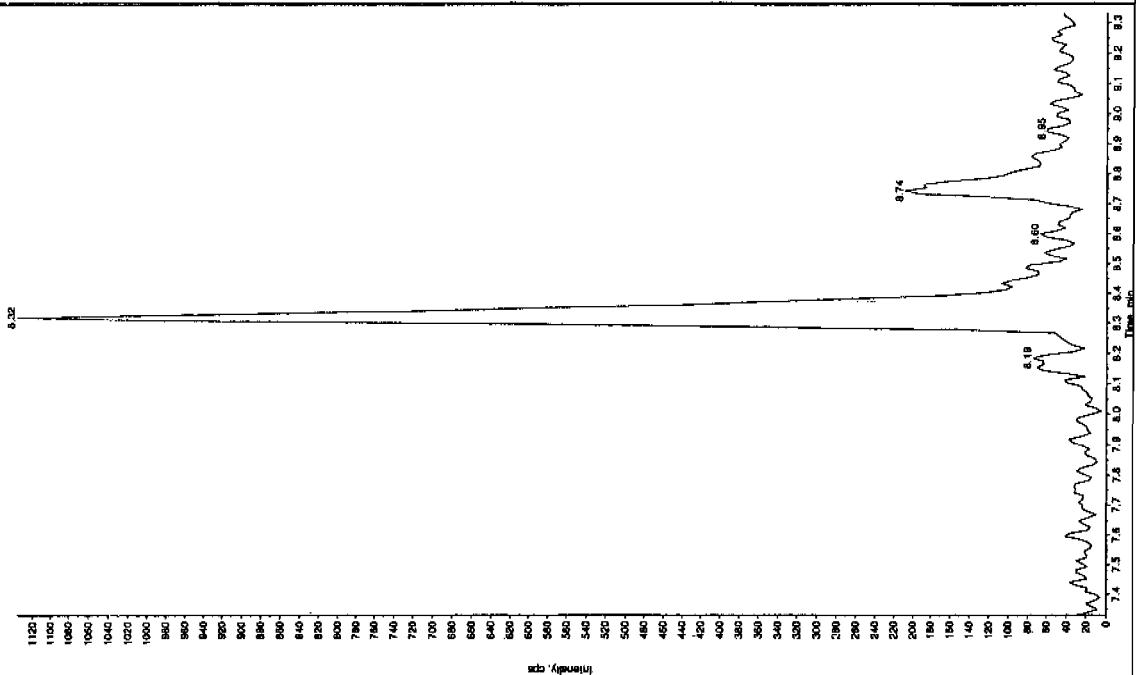
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:35:57 AM
 Modified: No



Amu 03/17/10



Sample Name: "XIBULK09" Sample ID: "JILER" File: "EXS03120072.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

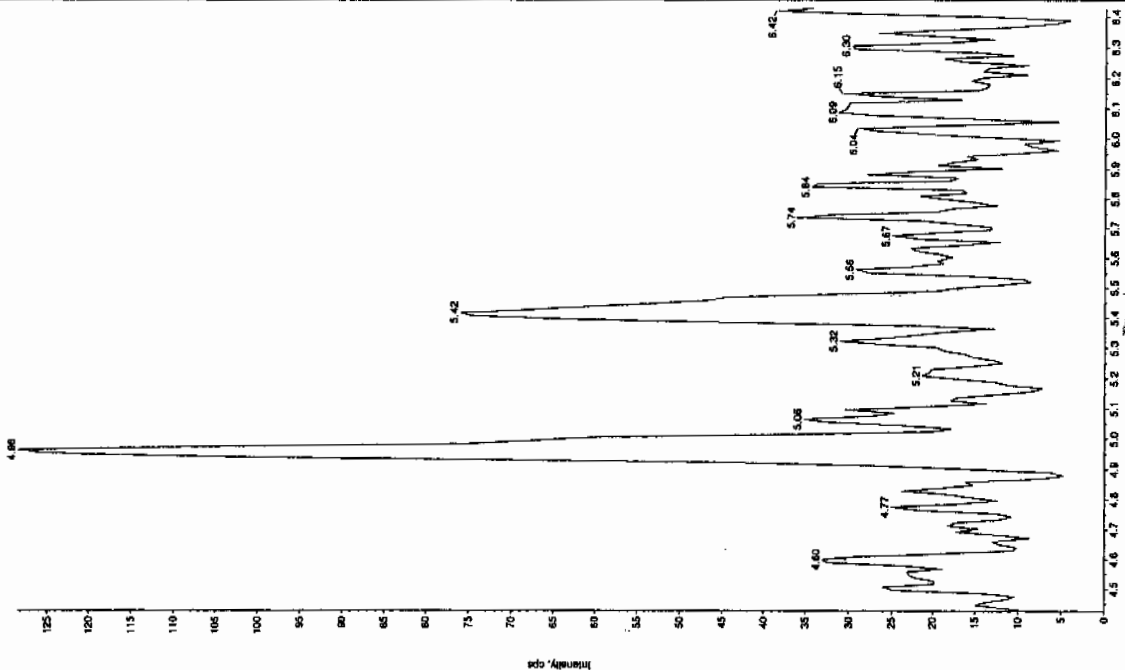


Sample Name: "XBLUC09" Sample ID: "JILER" File: "EX503120072.wif"
 Peak Name: "24-dinitro-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 10:35:57 AM
 Acq. Time: 10:35:57 AM

Modified: NO

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.04e+005 counts
 Height: 25115.231 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Nairb.ref

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

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

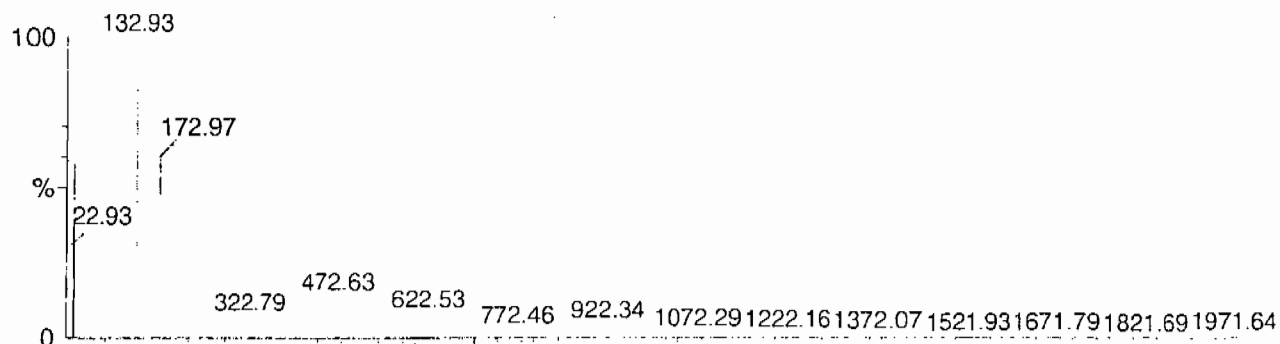
Calibration Report - MS1 Static

Page 1 of 1

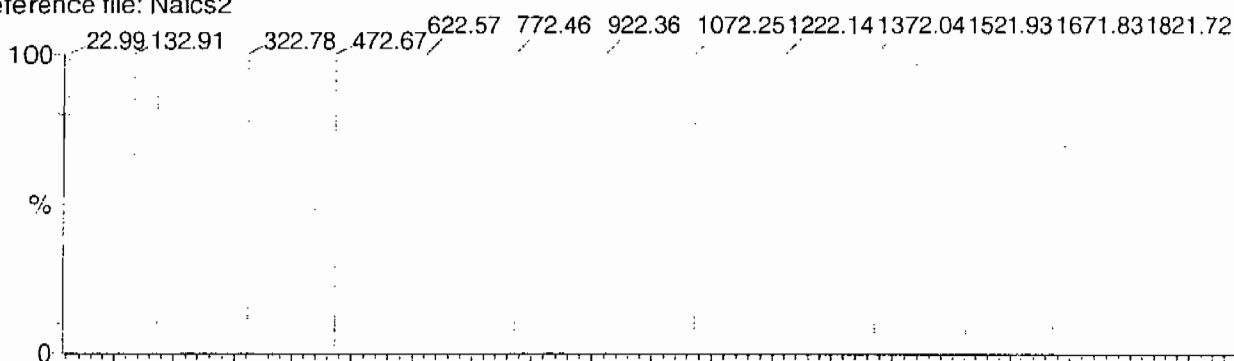
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

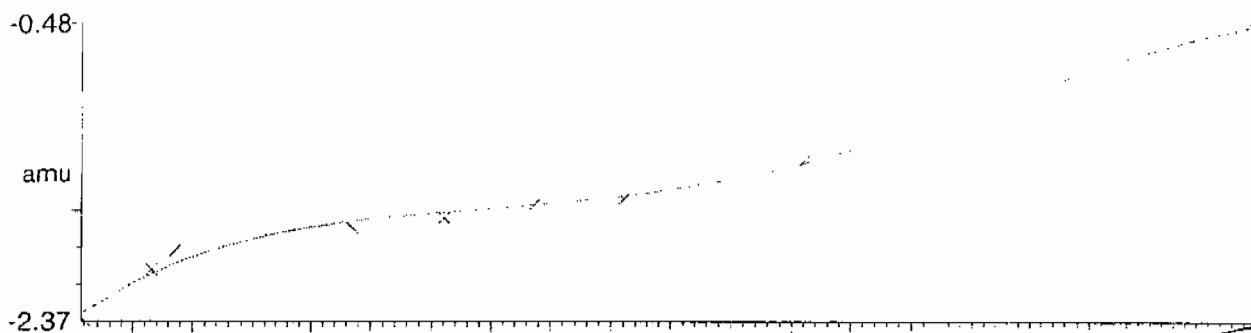
15 matches of 15 tested references



Reference file: Naics2

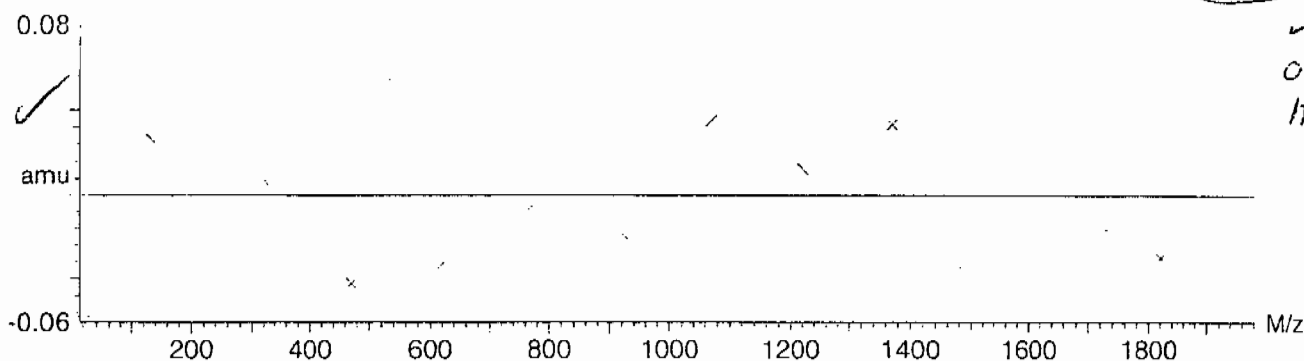


Mass difference (Raw - Ref mass)



Residuals

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



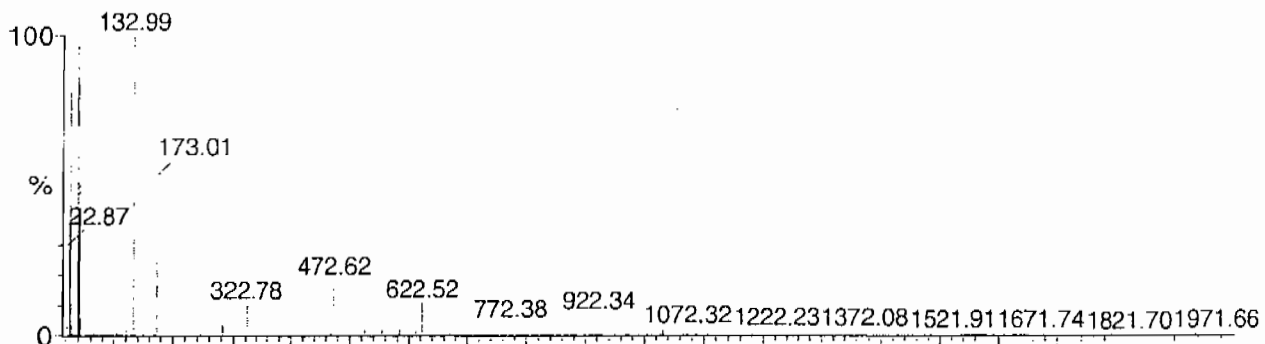
Calibration Report - MS1 Scanning

Page 1 of 1

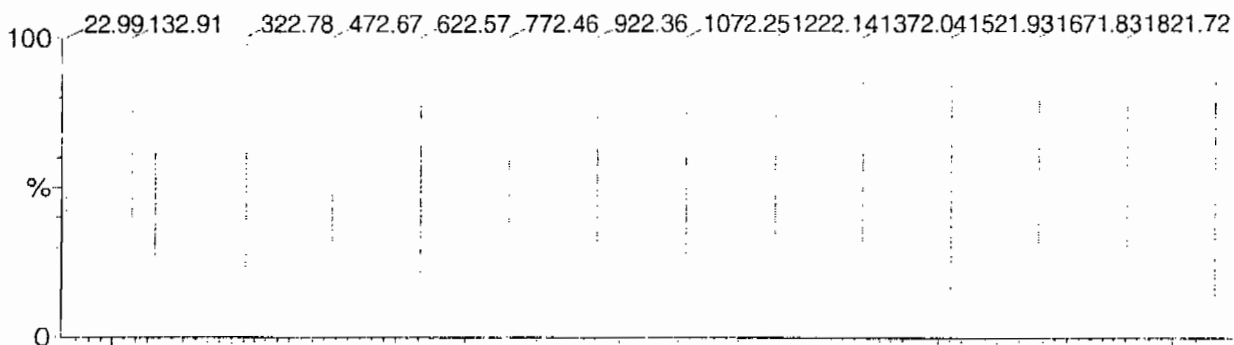
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

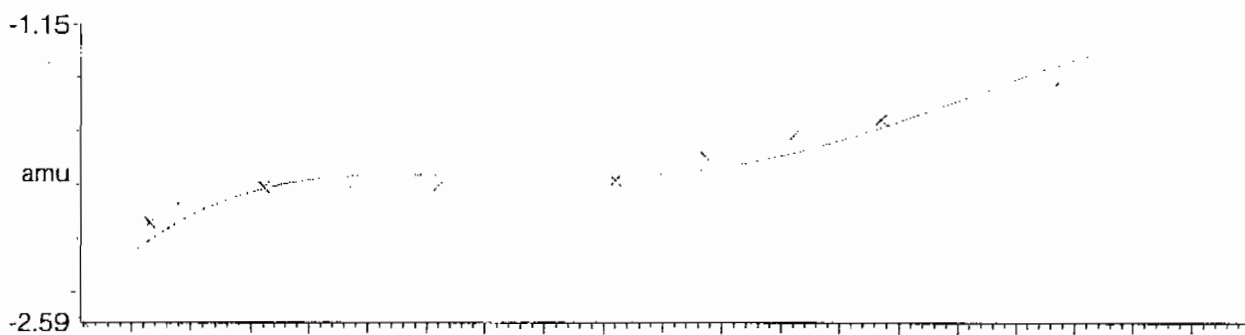
15 matches of 15 tested references



Reference file: Naics2

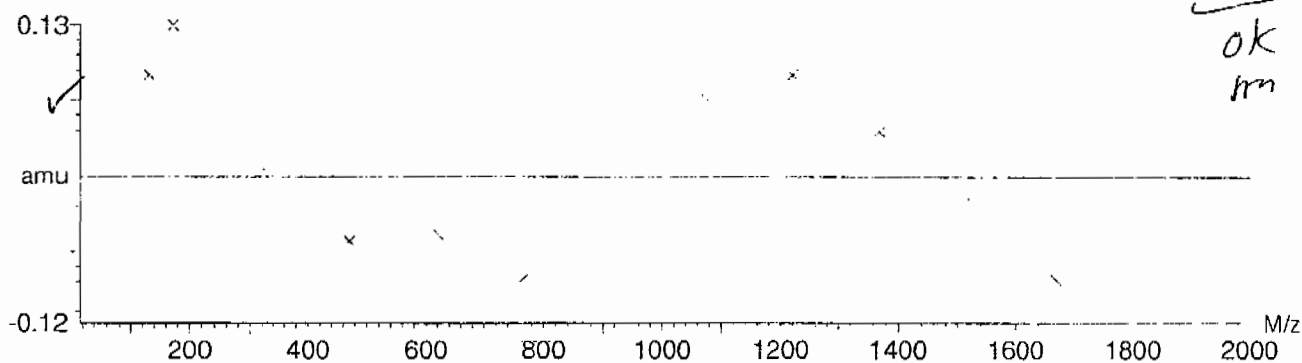


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



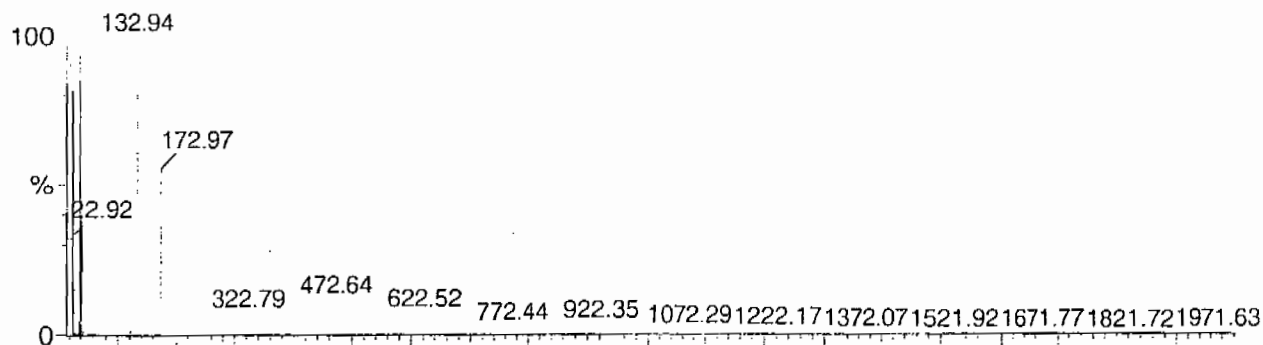
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

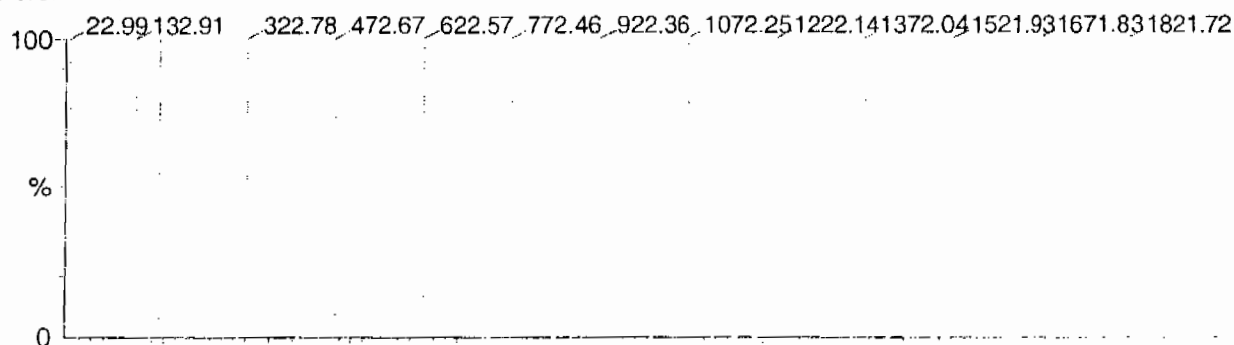
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

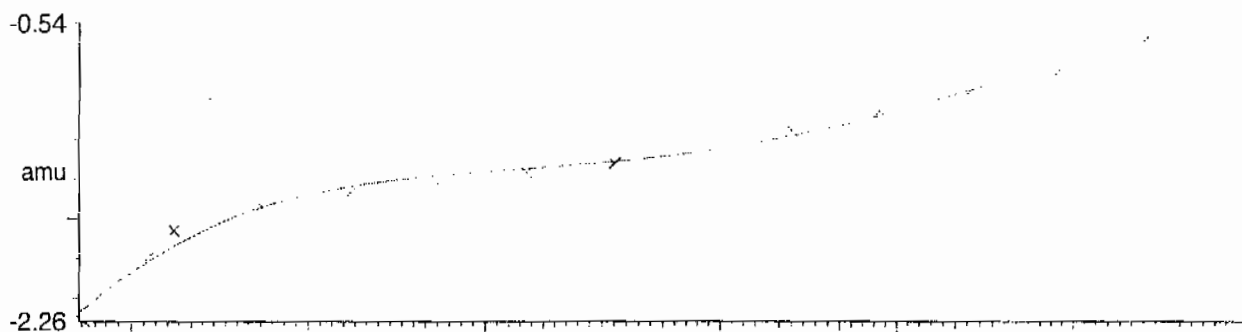
15 matches of 15 tested references



Reference file: Naics2

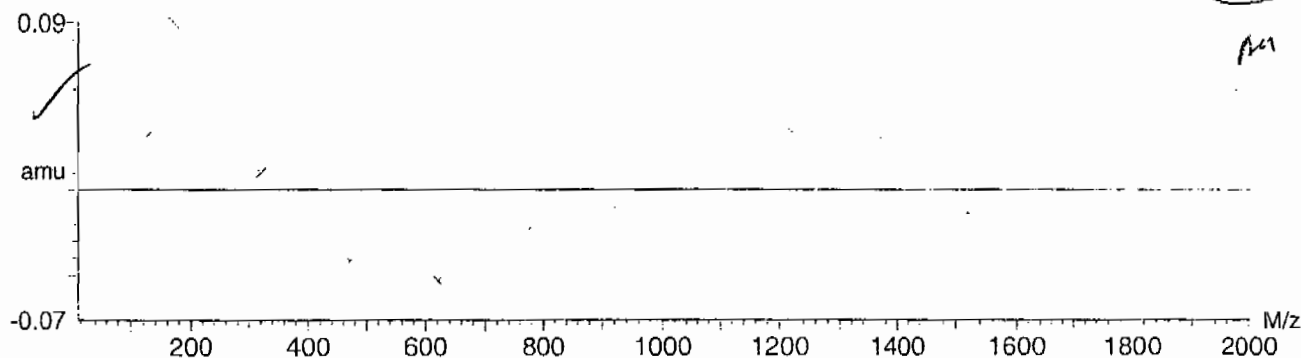


Mass difference (Raw - Ref mass)



Residuals

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



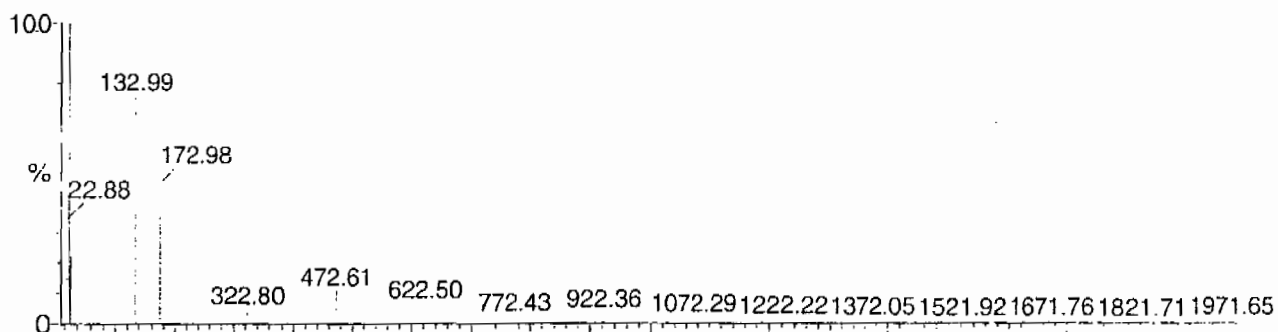
Calibration Report - MS2 Static

Page 1 of 1

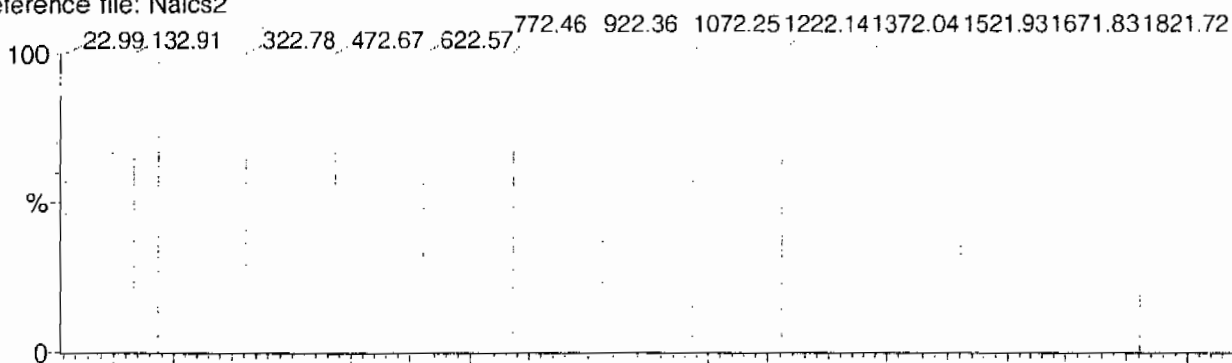
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

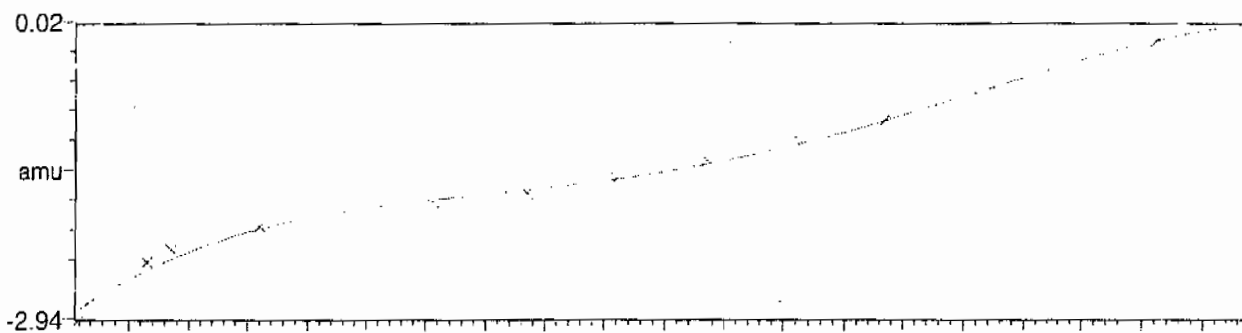
15 matches of 15 tested references



Reference file: Naics2

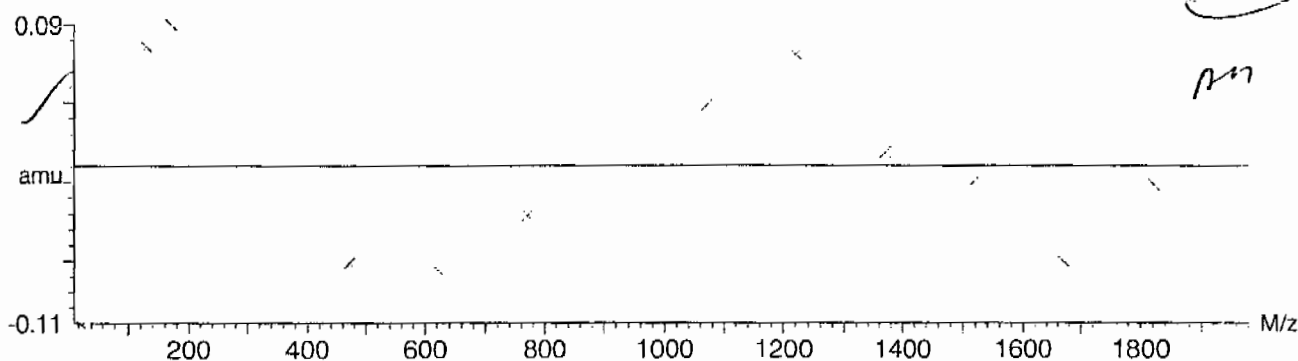


Mass difference (Raw - Ref mass)



Residuals

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



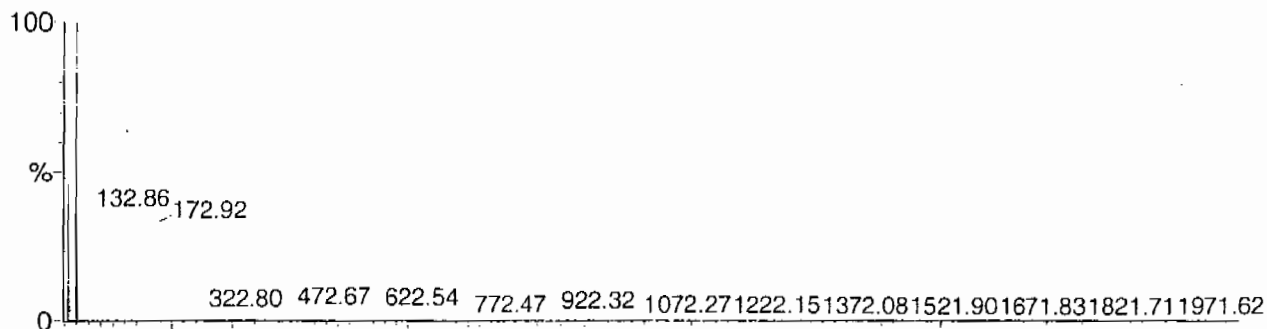
Calibration Report - MS2 Scanning

Page 1 of 1

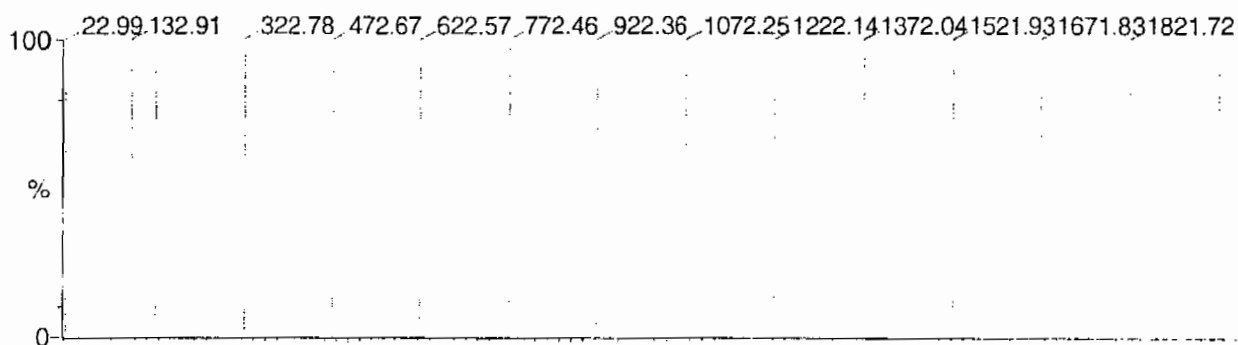
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

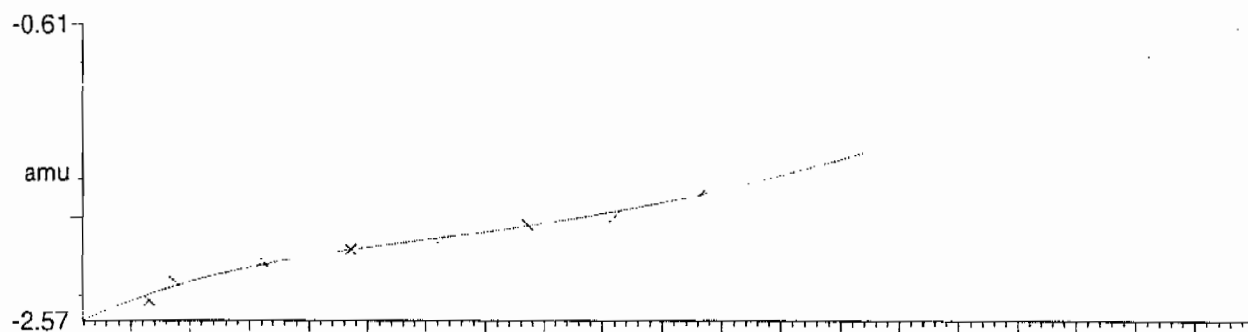
14 matches of 15 tested references



Reference file: Naics2

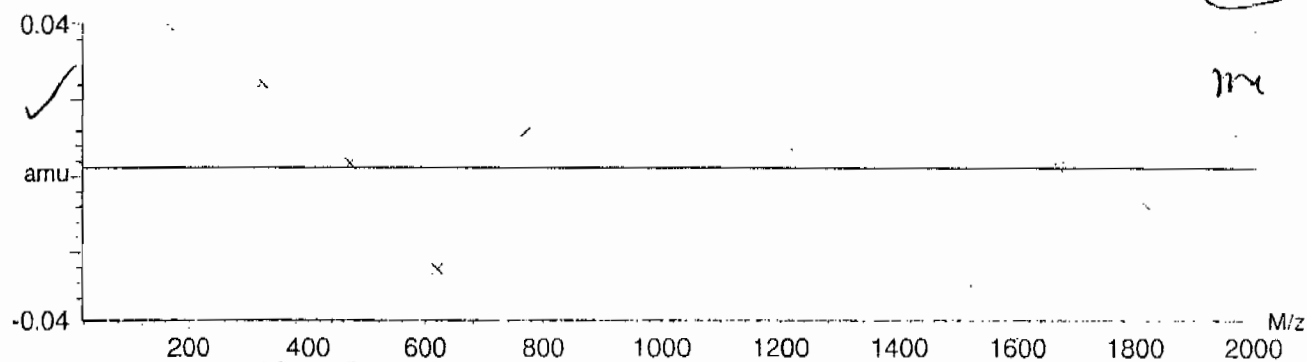


Mass difference (Raw - Ref mass)



Residuals

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



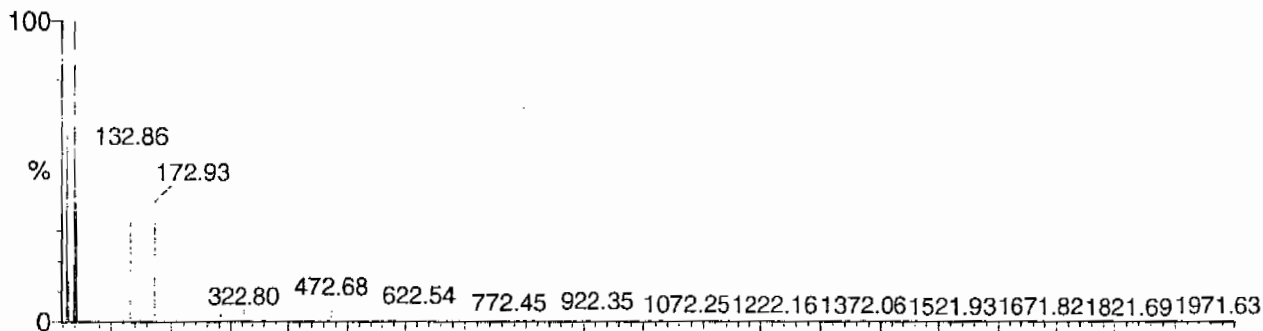
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

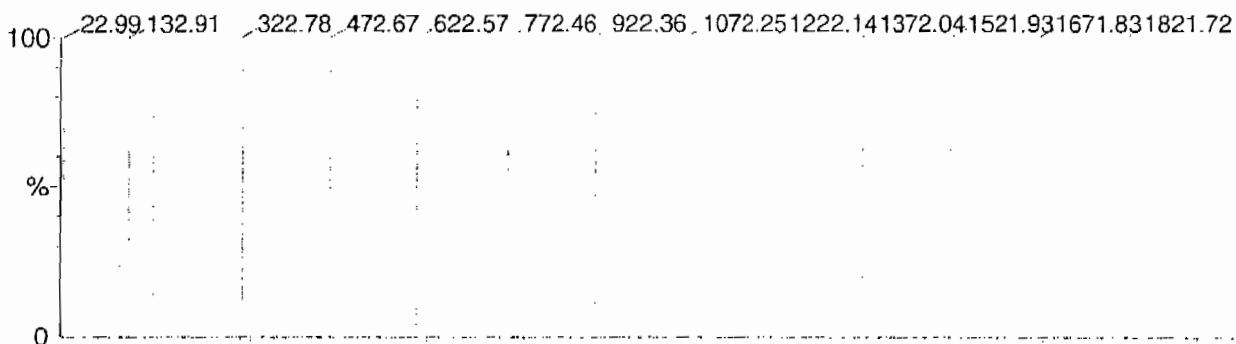
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

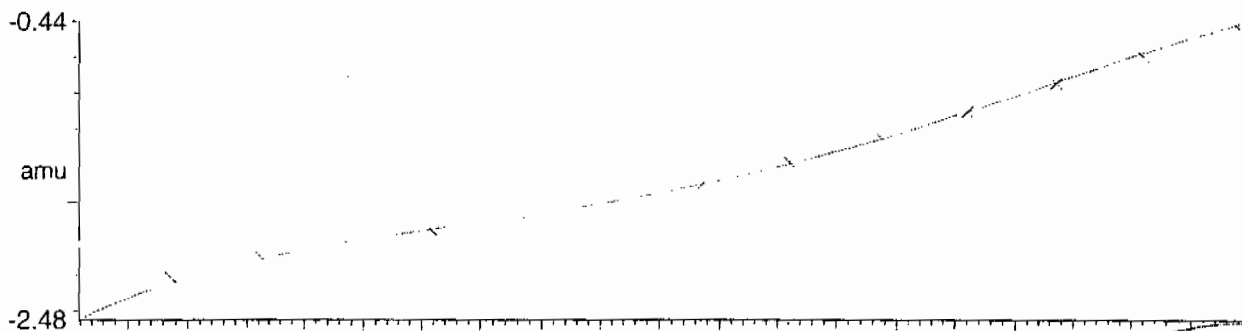
14 matches of 15 tested references



Reference file: Naics2

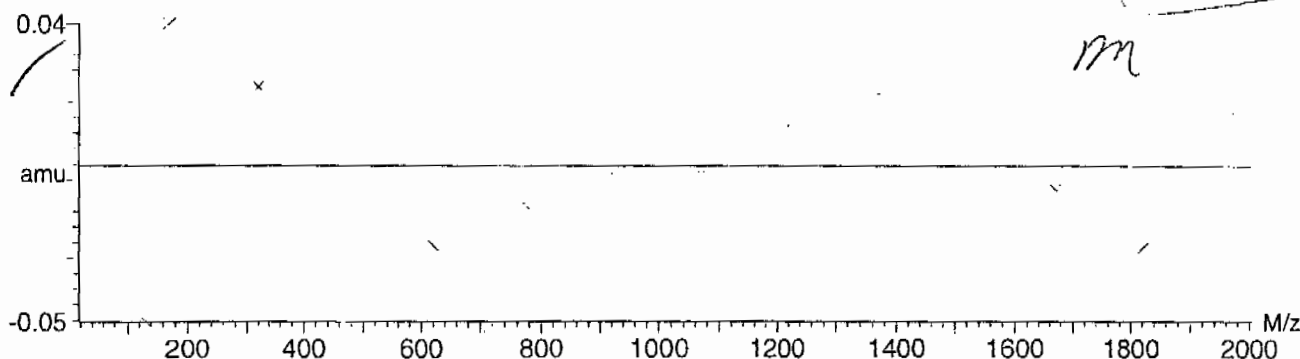


Mass difference (Raw - Ref mass)



Residuals

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

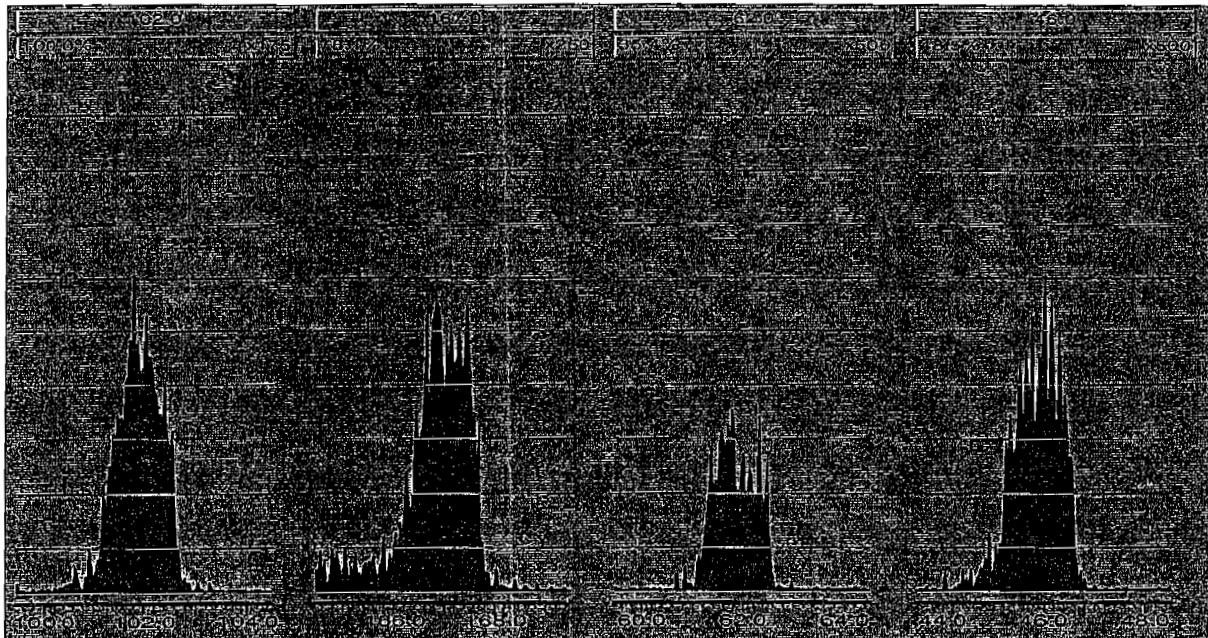


Quattro Micro Tune Parameters

Page 1

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

Printed : Thu Apr 08 15:35:33 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

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 958253	11-apr-10 09:34	EXP0408123a	6326.4	11.895	38587.6	17.114
LCS for batch 958253	11-apr-10 10:04	EXP0408124a	6727.45	11.894	40829.2	17.113
RE15-10-7902	11-apr-10 14:00	EXP0408132a	6160.31	11.926	32896.4	17.116
RE15-10-7901	11-apr-10 15:58	EXP0408136a	6545.09	11.899	38098.5	17.093
RE15-10-8027	11-apr-10 16:27	EXP0408137a	6210.83	11.895	36907.4	17.093
RE15-10-8028	11-apr-10 16:57	EXP0408138a	6372.89	11.9	41184.1	17.116
RE15-10-8030	11-apr-10 17:26	EXP0408139a	6816.28	11.895	34169.9	17.113
RE15-10-8031	11-apr-10 17:56	EXP0408140a	5801.59	11.895	34233.4	17.109
RE15-10-8029	11-apr-10 18:25	EXP0408141a	6057.31	11.895	39640.5	17.113
RE15-10-8032	11-apr-10 18:55	EXP0408142a	5983.44	11.895	36180	17.091
RE15-10-8067	11-apr-10 19:24	EXP0408143a	6471.61	11.894	37834.6	17.092

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: RE15-10-7902

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029001

Sample Amount 2

Moisture: 15.6

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408132a

Date Analyzed: 11-APR-10 14:00

Units: ug/kg

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

*Concentration =

Instrument Value X Concentrated Extract Volume Sample Amount X Dilution Factor

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408132a

Date: 11-Apr-2010

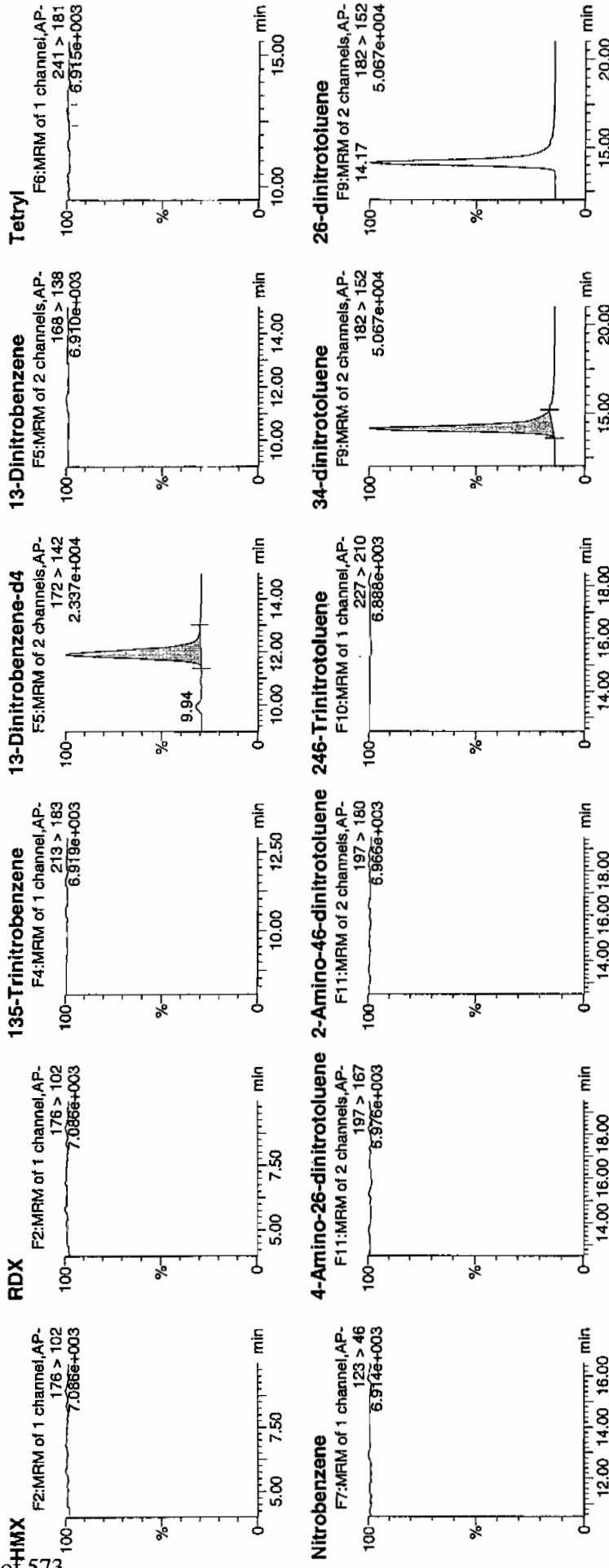
Time: 14:00:13

ID: 248029001

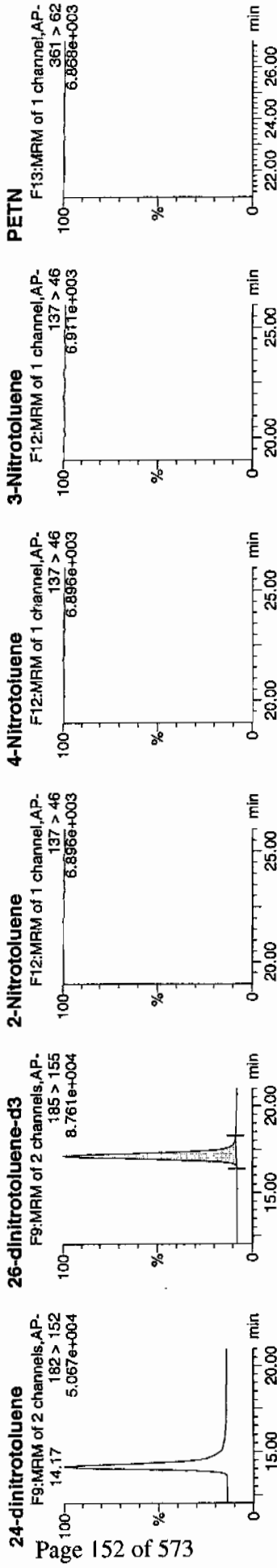
Vial: 2:2,D

uaf
4/12/10

Lawrence / 8233 / 21



Amw
04/13/10



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc	%Rec	%Dev	SN
248029001	HMx		176 > 102	6160.305	6160.305									
248029001	RDX		176 > 102	6160.305	6160.305									
248029001	135-Trinitrobenzene		213 > 183	6160.305	6160.305									
248029001	13-Dinitrobenzene-d4		172 > 142	6160.305	6160.305									
248029001	13-Dinitrobenzene		168 > 138	6160.305	6160.305									
248029001	Tetryl		241 > 181	6160.305	6160.305									
248029001	Nitrobenzene		123 > 46	32896.355	32896.355									
248029001	4-Amino-26-dinitrotoluene		197 > 167	32896.355	32896.355									
248029001	2-Amino-46-dinitrotoluene		197 > 180	32896.355	32896.355									
248029001	246-Trinitrotoluene		227 > 210	32896.355	32896.355									
248029001	34-dinitrotoluene		182 > 152	18482.916	32896.355									
248029001	26-dinitrotoluene		182 > 152	32896.355	32896.355									
248029001	24-dinitrotoluene		182 > 152	32896.355	32896.355									
248029001	26-dinitrotoluene-d3		185 > 155	32896.355	32896.355									
248029001	2-Nitrotoluene		137 > 46	32896.355	32896.355									
248029001	4-Nitrotoluene		137 > 46	32896.355	32896.355									
248029001	3-Nitrotoluene		137 > 46	32896.355	32896.355									
248029001	PETN		361 > 62	32896.355	32896.355									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7902

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029001

Sample Amount 2

Moisture: 15.6

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120057.wiff

Date Analyzed: 13-MAR-10 06:40

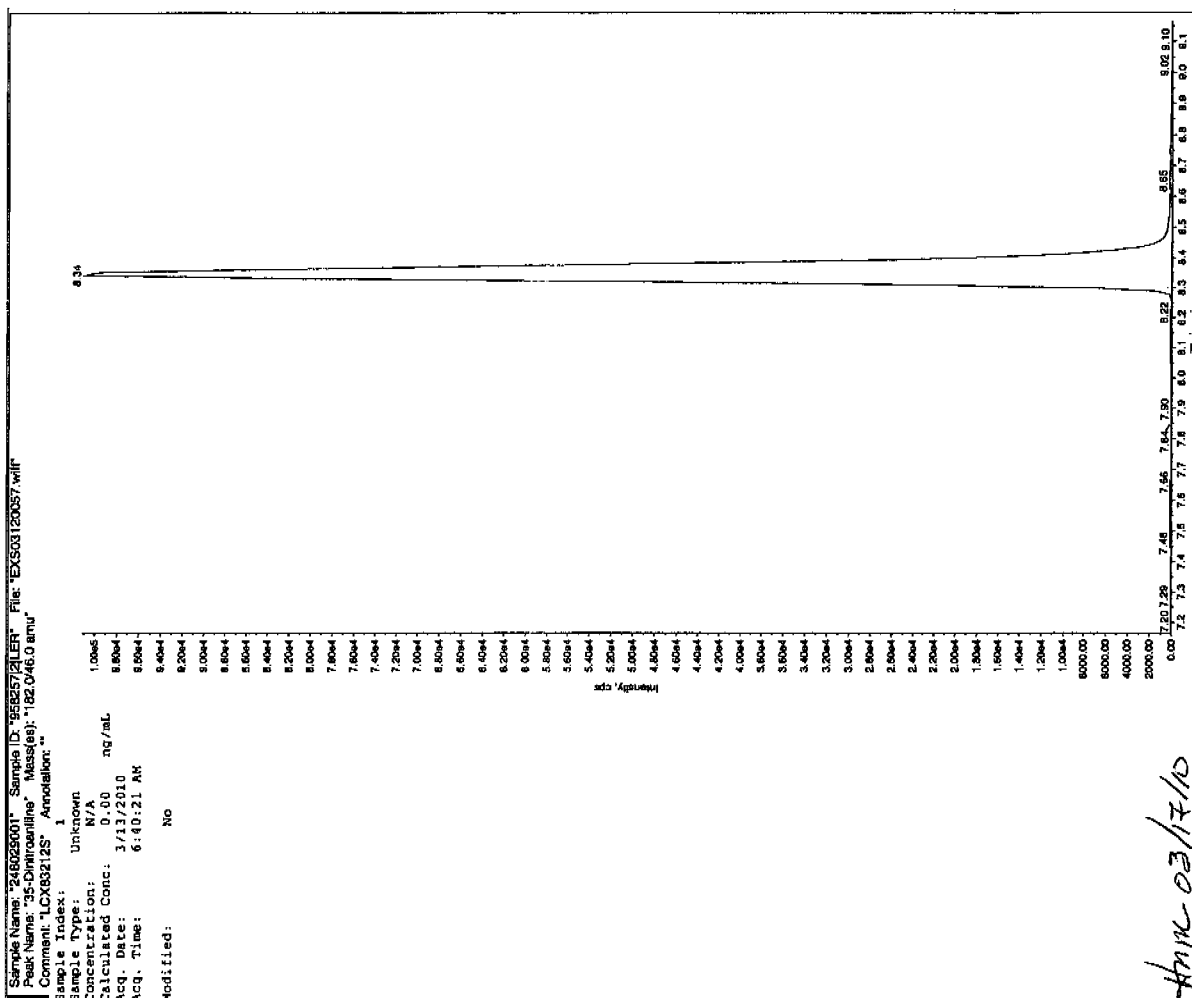
Units: ug/kg

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

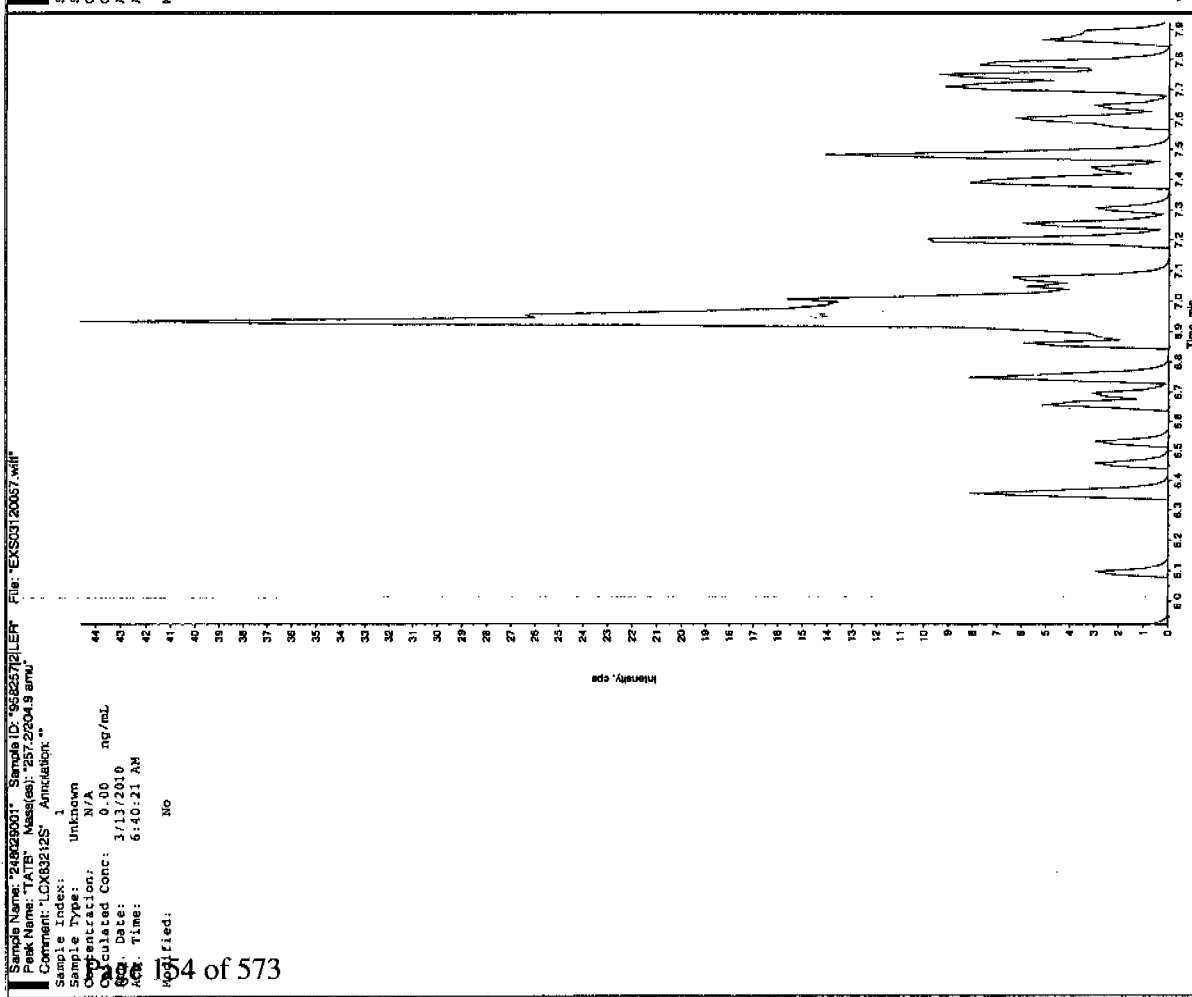
*Concentration =

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

Hex 3/16/10



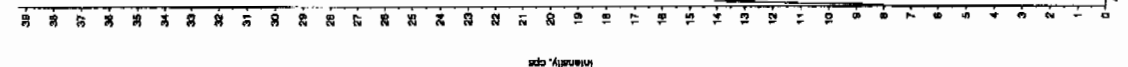
APR 03/17/10



Sample Name: "248025001" Sample ID: "95025721ER" File: "EX0312057.wif"
 Peak Name: "26-Diamino-4-nitrobenzoate" 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: 3/13/2010
 Acq. Time: 6:40:21 AM
 Modified: No

Intensity, cps



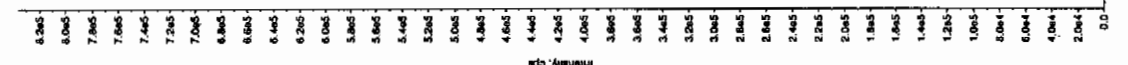
Sample Name: "248025001" Sample ID: "95025721ER" File: "EX0312057.wif"
 Peak Name: "34-Contrastone" Mass(es): "162.1715.9 amu"
 Comment: "LCX832125" Annotation: "

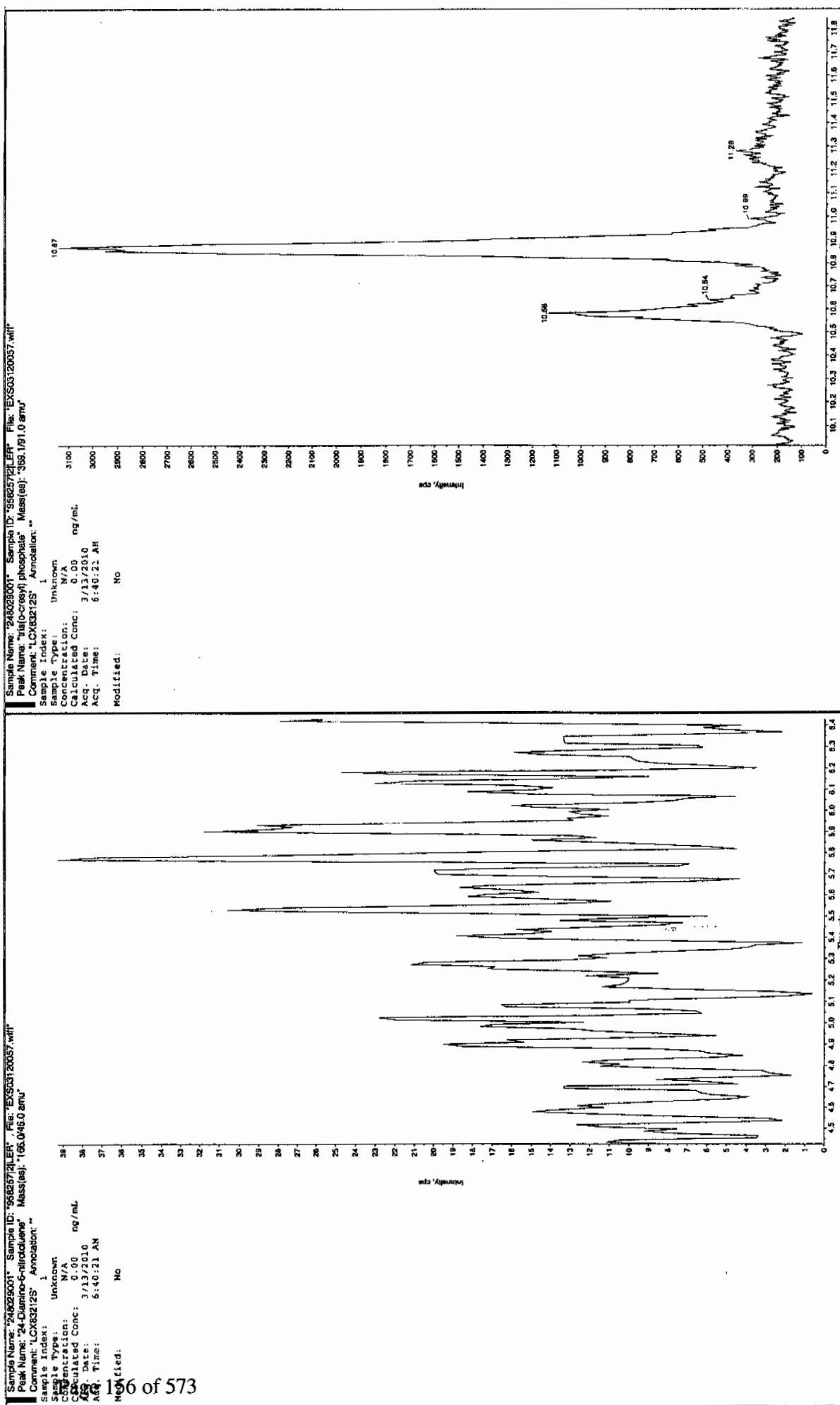
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 275 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 6:40:21 AM

Modified: No
 Peak Algorithm: IntelliQuan - IQA
 Min Peak Height: 1460.00 cps
 Min Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 U463 Relative RT: No

Int. Type: Valley
 Retention Time: 8.34 min
 Area: 3.11e+006 counts
 Height: 816631.73 cps
 Start Time: 8.25 min
 End Time: 8.50 min

Intensity, cps





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7901

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029002

Sample Amount 2

Moisture: 34.7

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408136a

Date Analyzed: 11-APR-10 15:58

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 27 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qtd, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408136a

Date: 11-Apr-2010

Time: 15:58:14

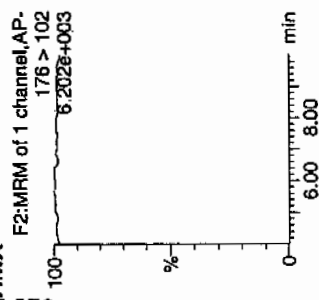
ID: 248029002

Vial: 2:2,E

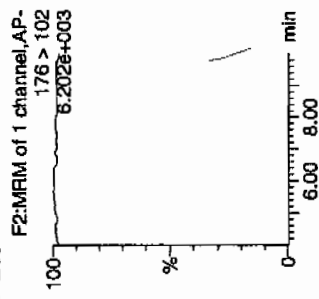
AVP
4/12/10

158
0458257 | 8022 | 21

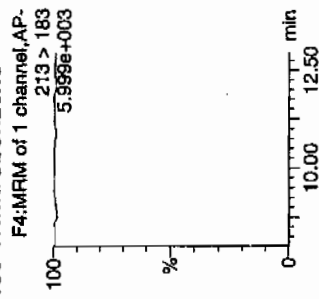
HMX



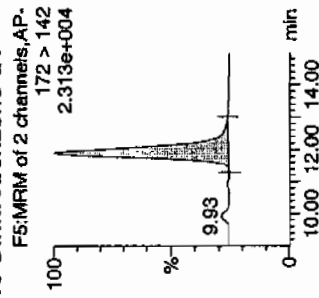
RDX



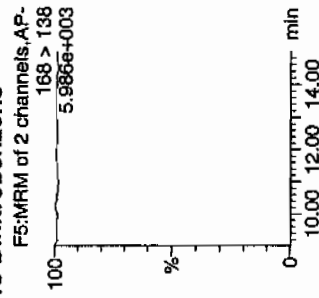
135-Trinitrobenzene



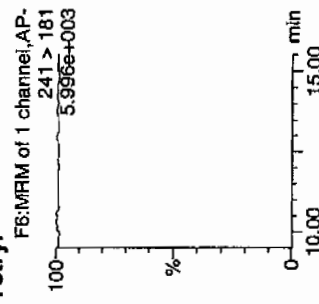
13-Dinitrobenzene-d4



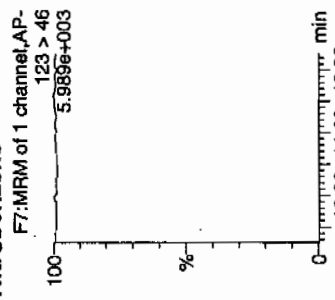
13-Dinitrobenzene



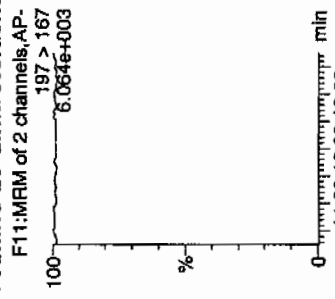
Tetryl



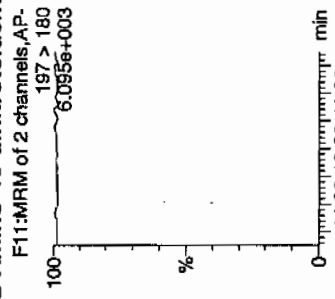
Nitrobenzene



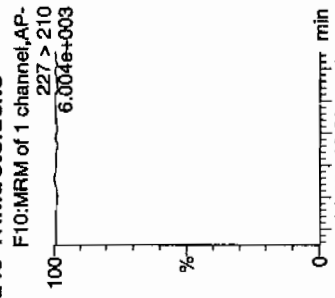
4-Amino-26-dinitrotoluene



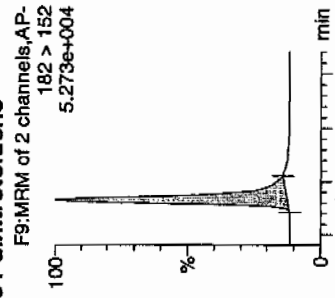
2-Amino-46-dinitrotoluene



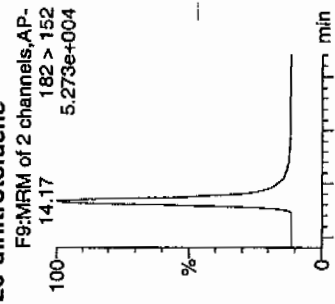
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



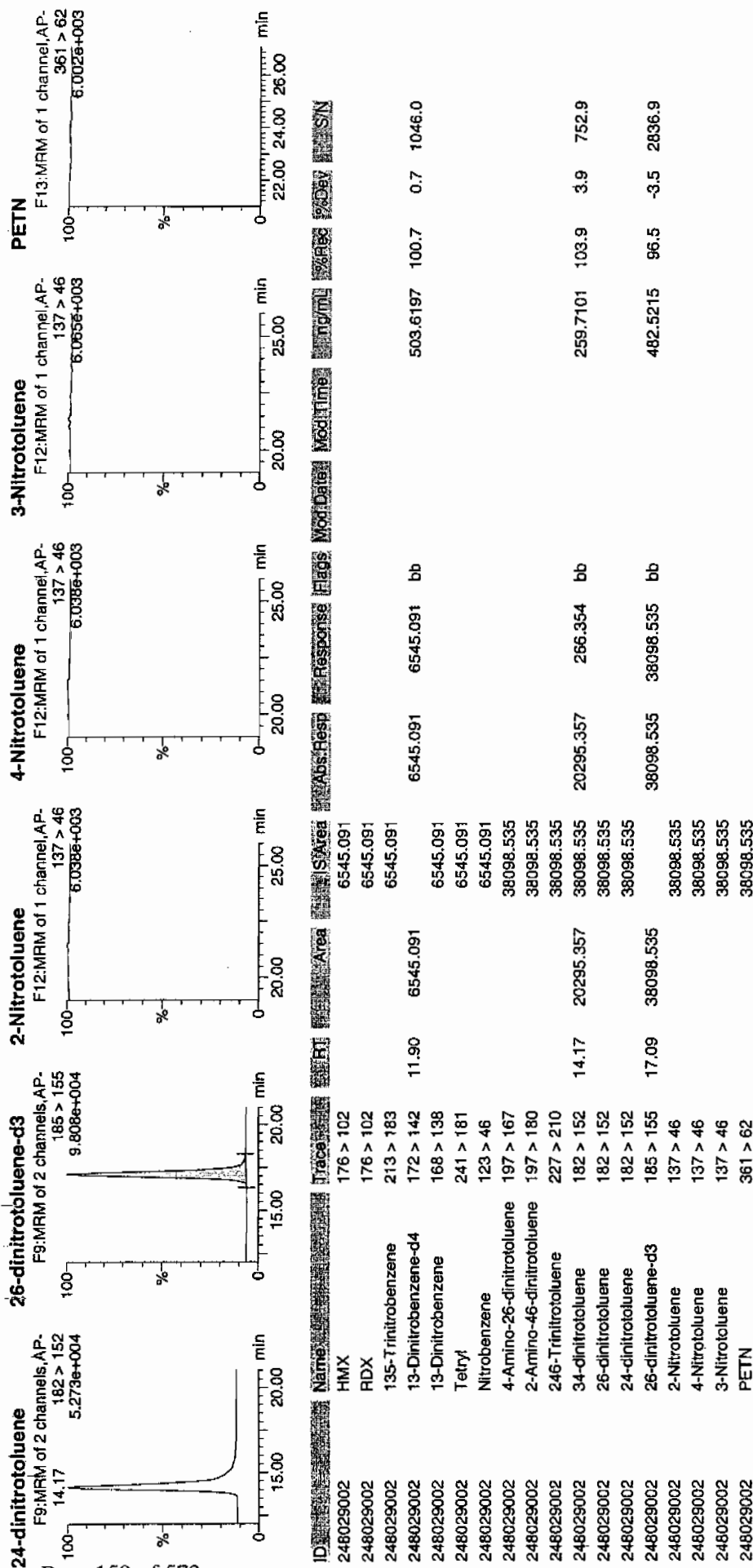
4mm 1/3/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 28 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qtd, Time: Mon Apr 12 11:58:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7901

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029002

Sample Amount 2

Moisture: 34.7

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120058.wiff

Date Analyzed: 13-MAR-10 06:56

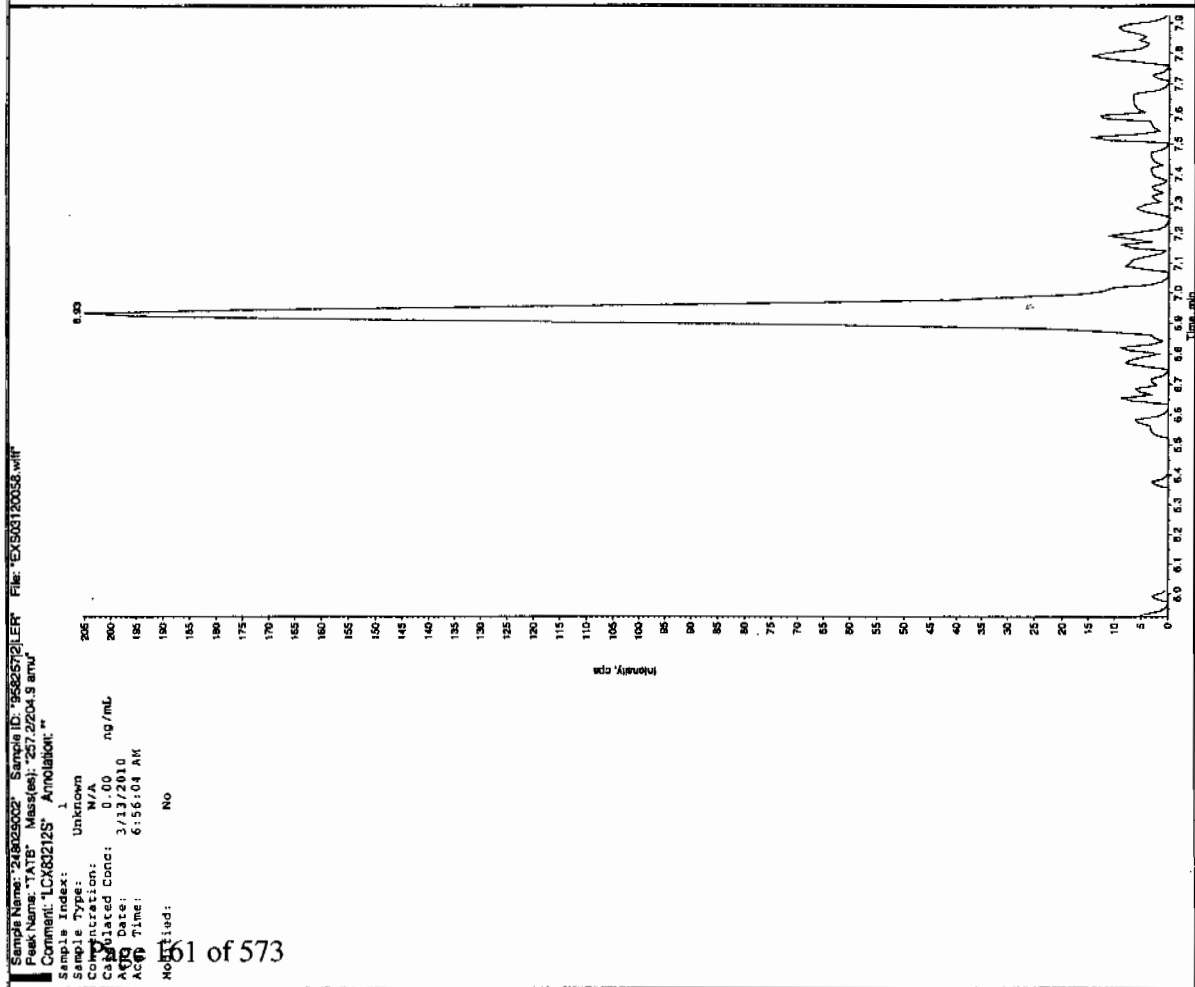
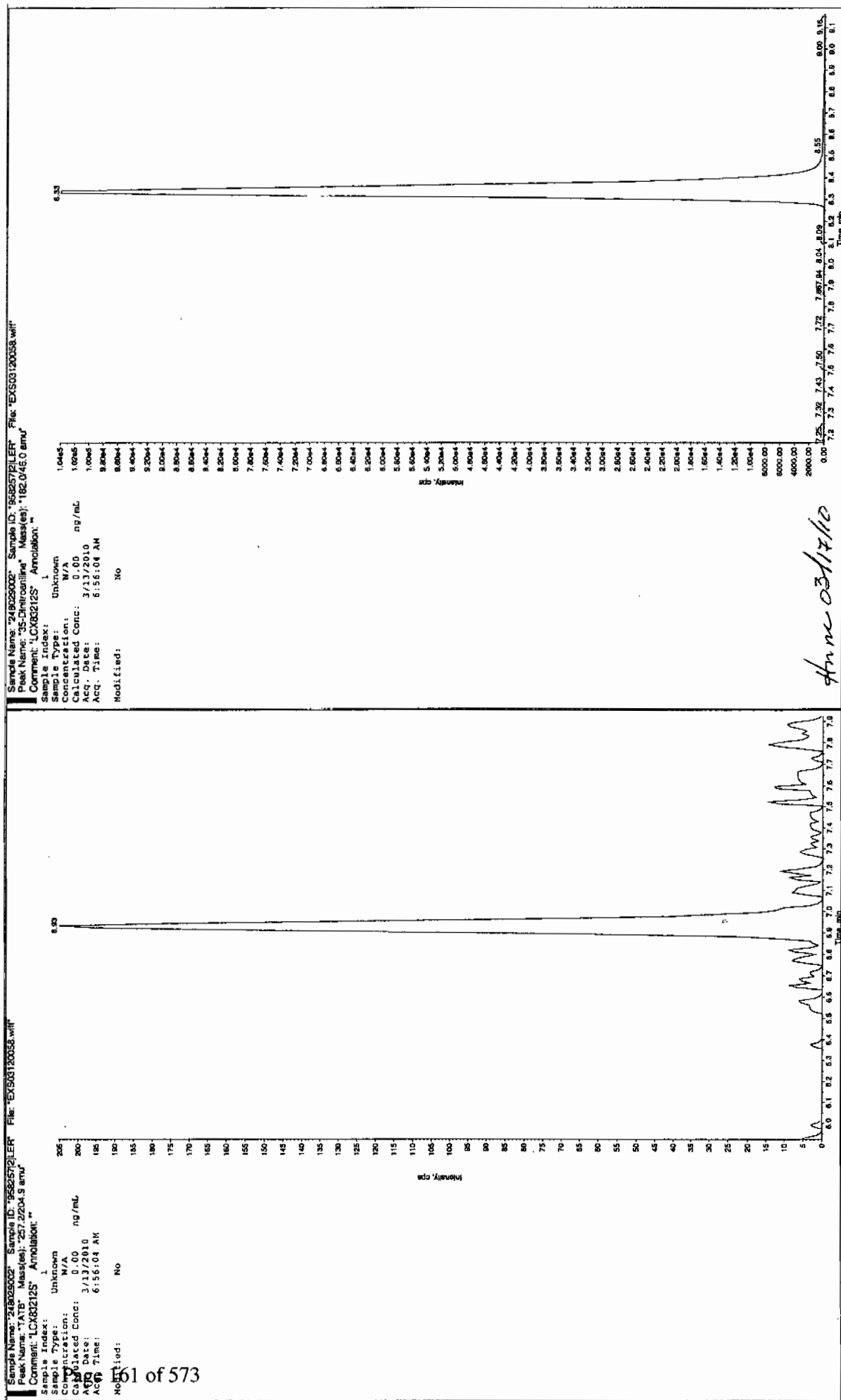
Units: ug/kg

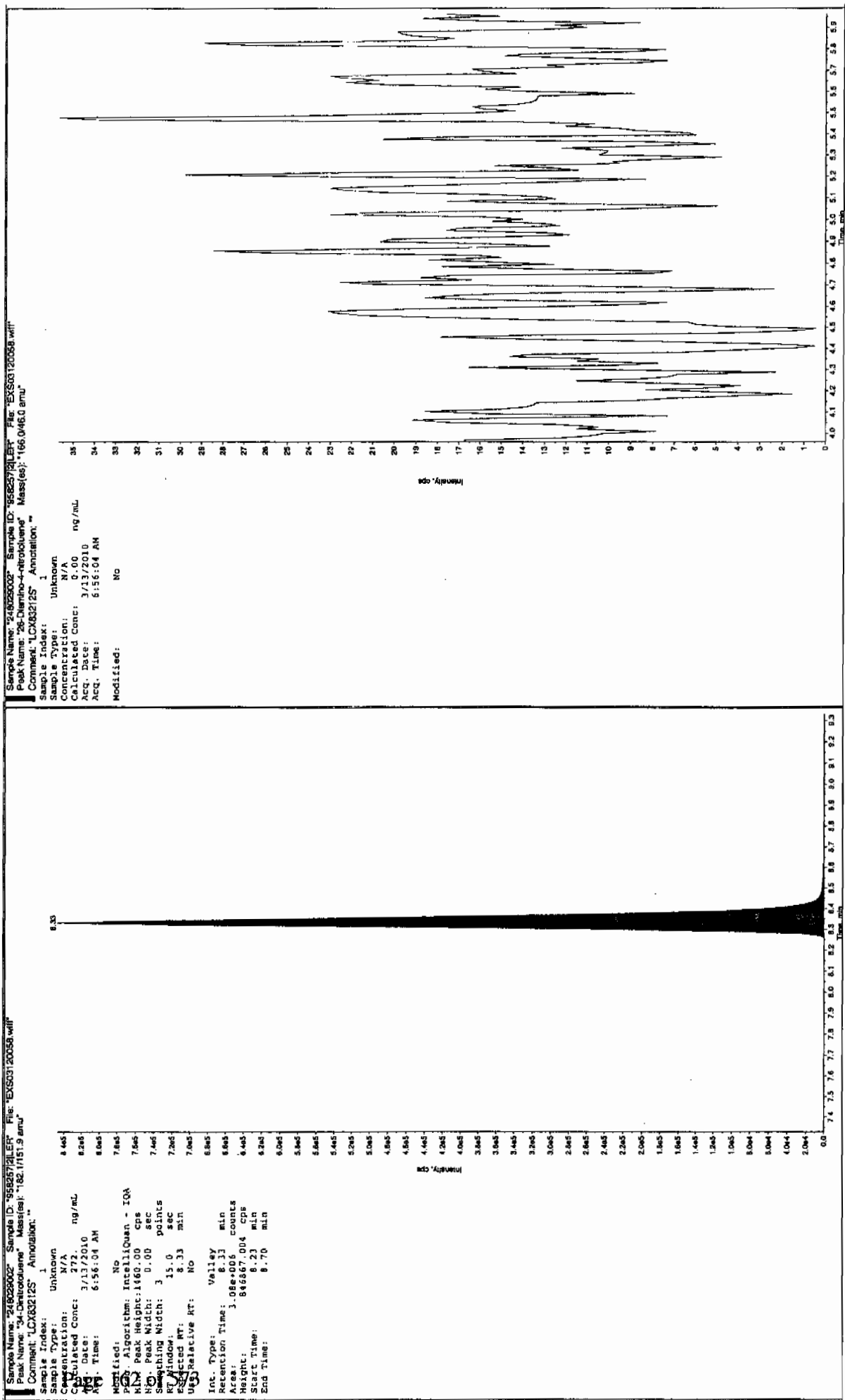
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

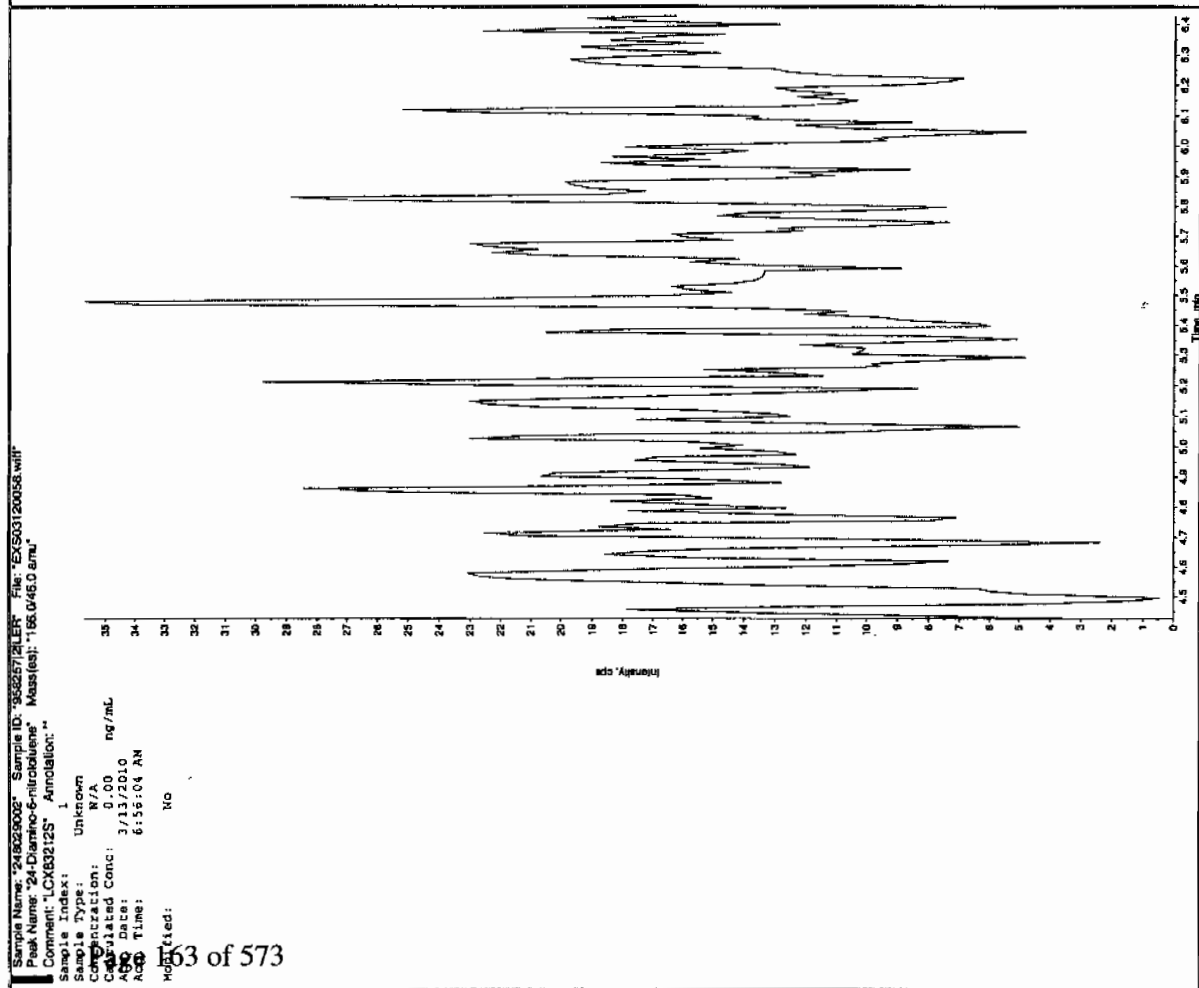
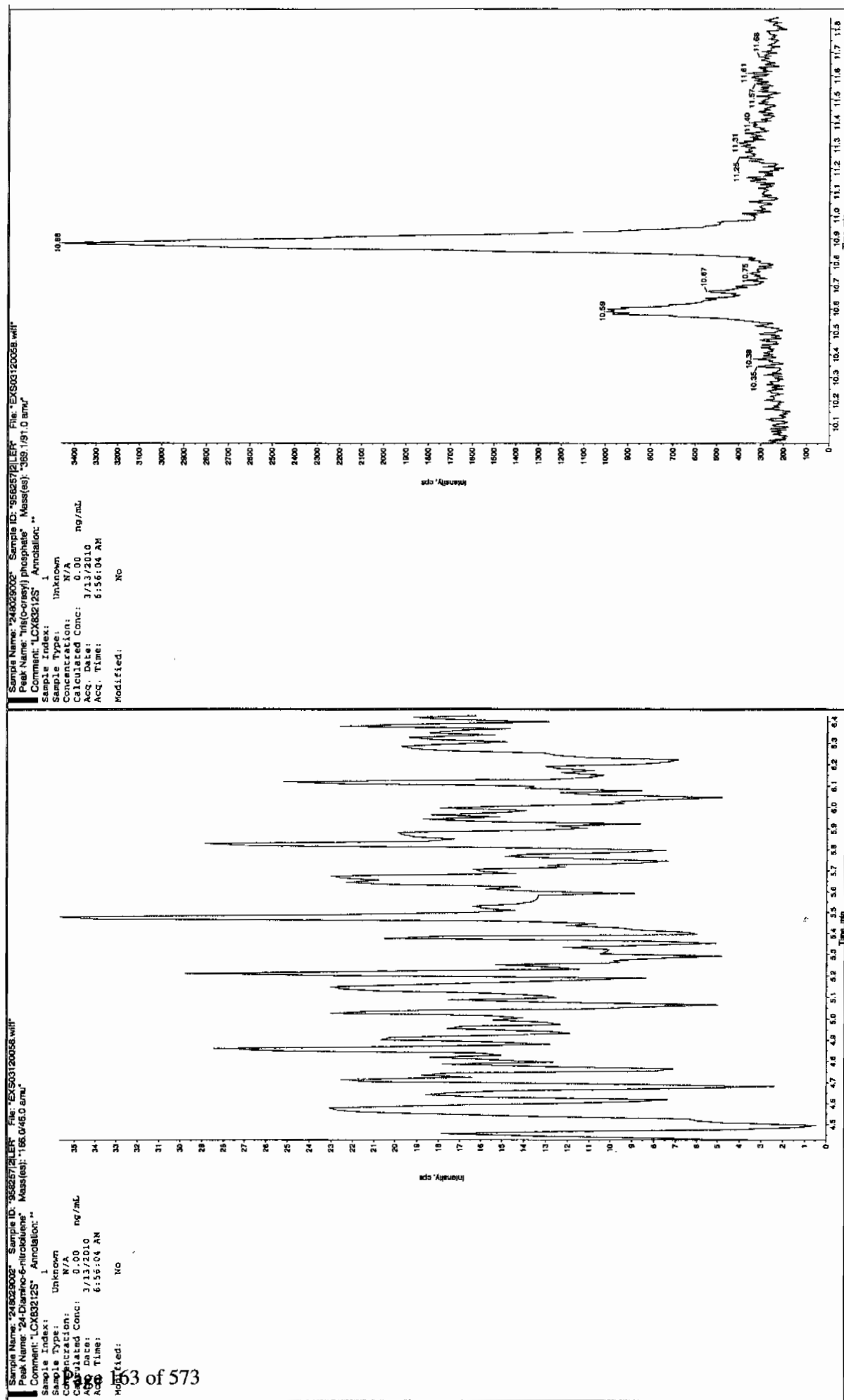
*Concentration =

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

for 3/10/10







1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8027

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408137a

Date Analyzed: 11-APR-10 16:27

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-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\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408137a

Date: 11-Apr-2010

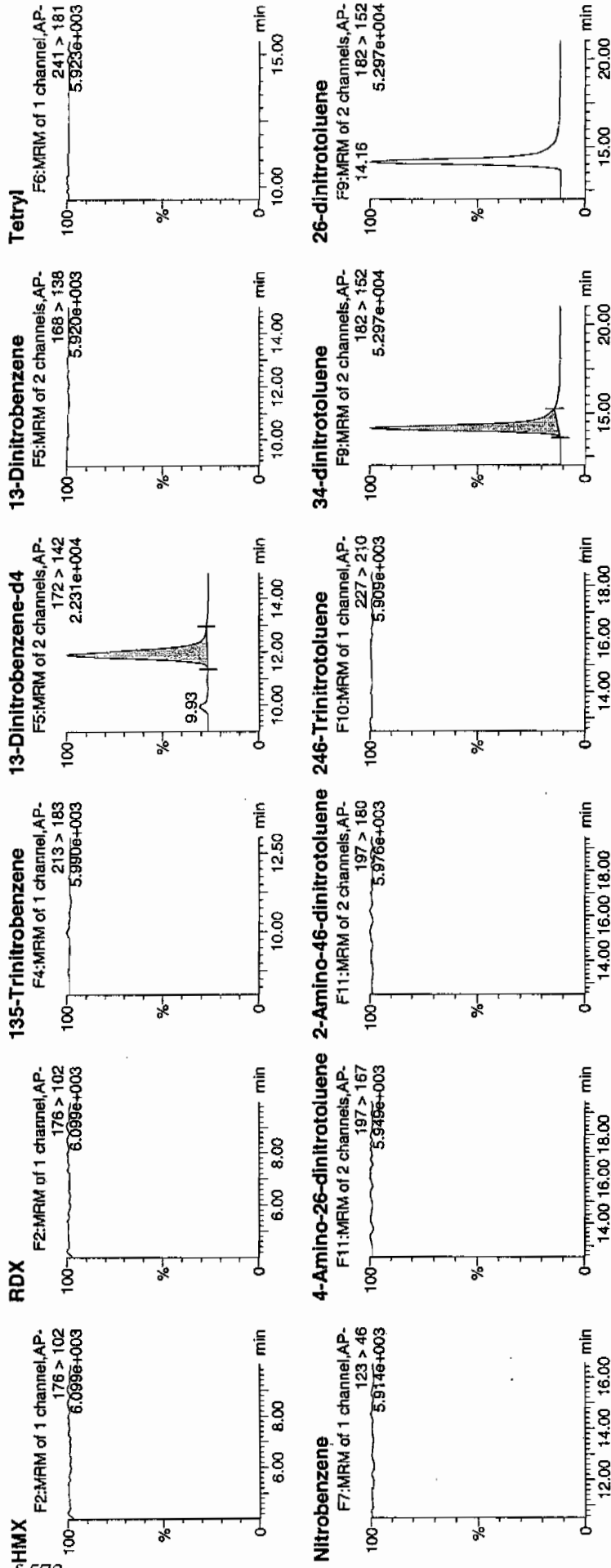
Time: 16:27:45

ID: 248029003

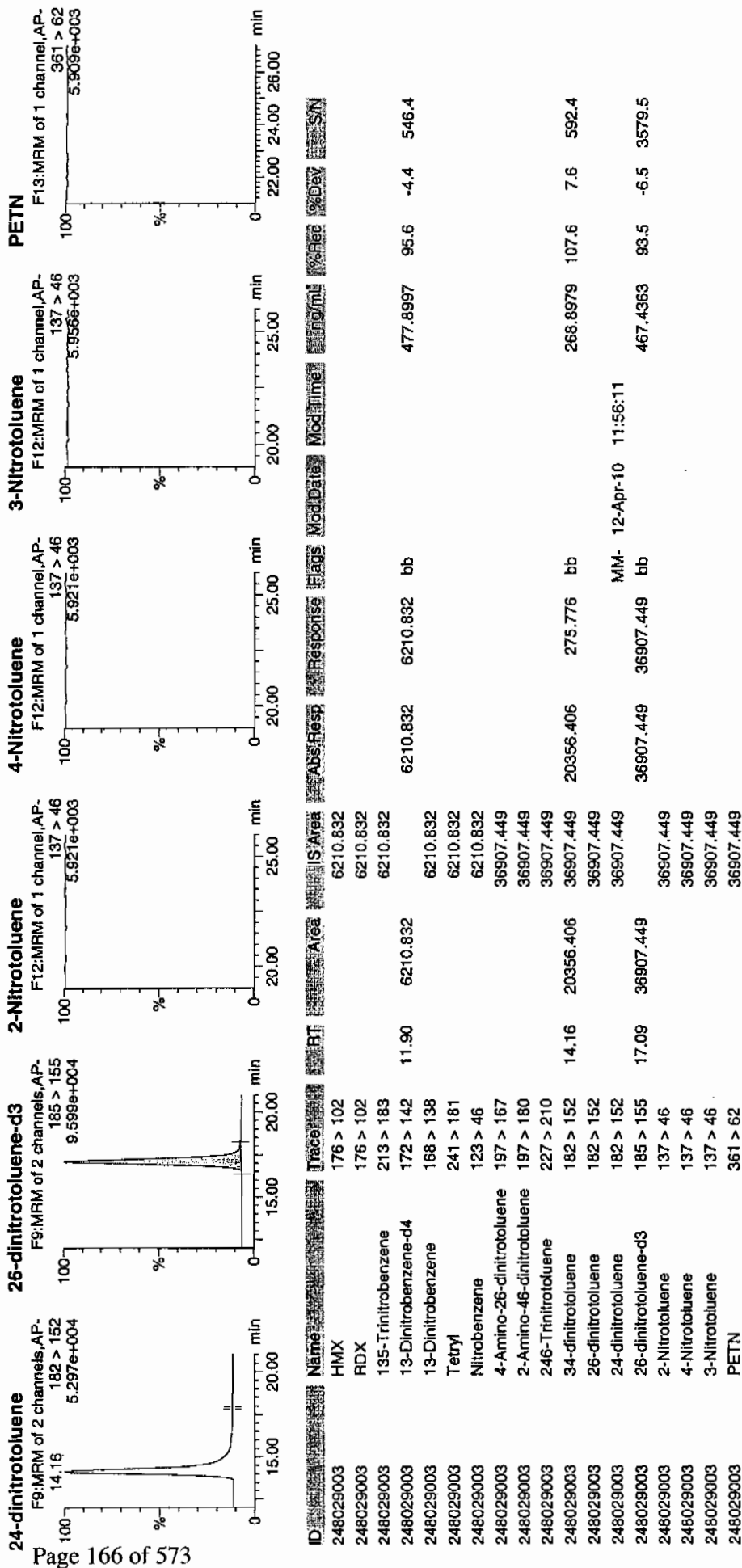
Vial: 2:2,F

4/12/10

WAVE 953257 | Scan 121



4/12/10



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8027

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029003

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120059.wiff

Date Analyzed: 13-MAR-10 07:11

Units: ug/kg

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

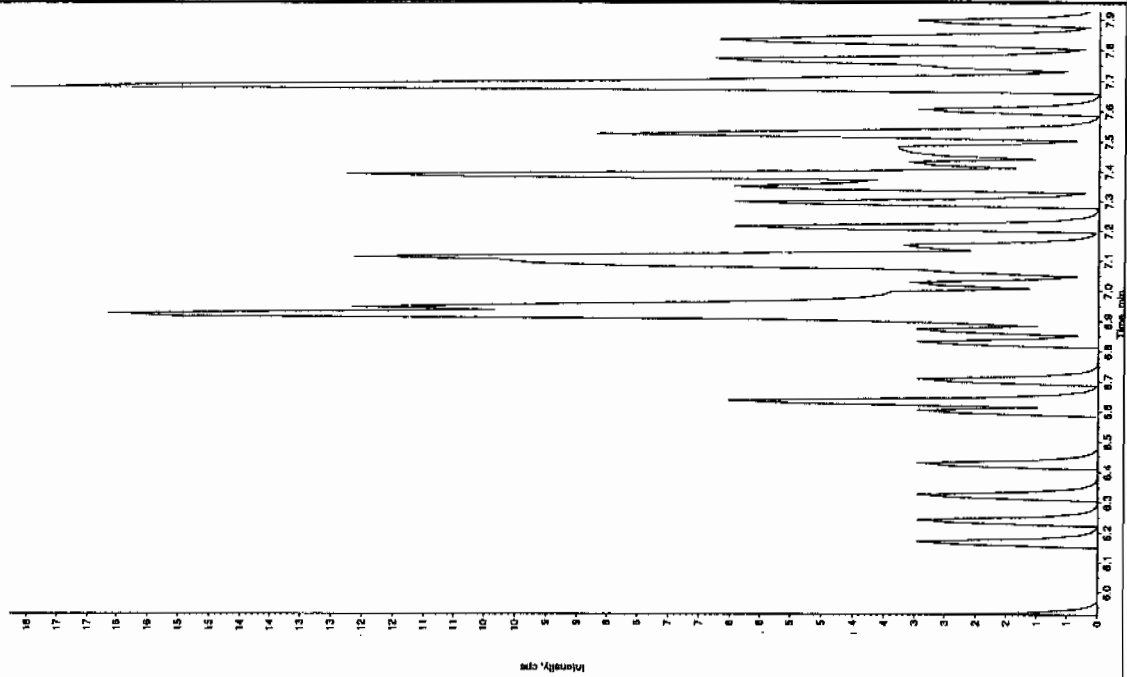
*Concentration =

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

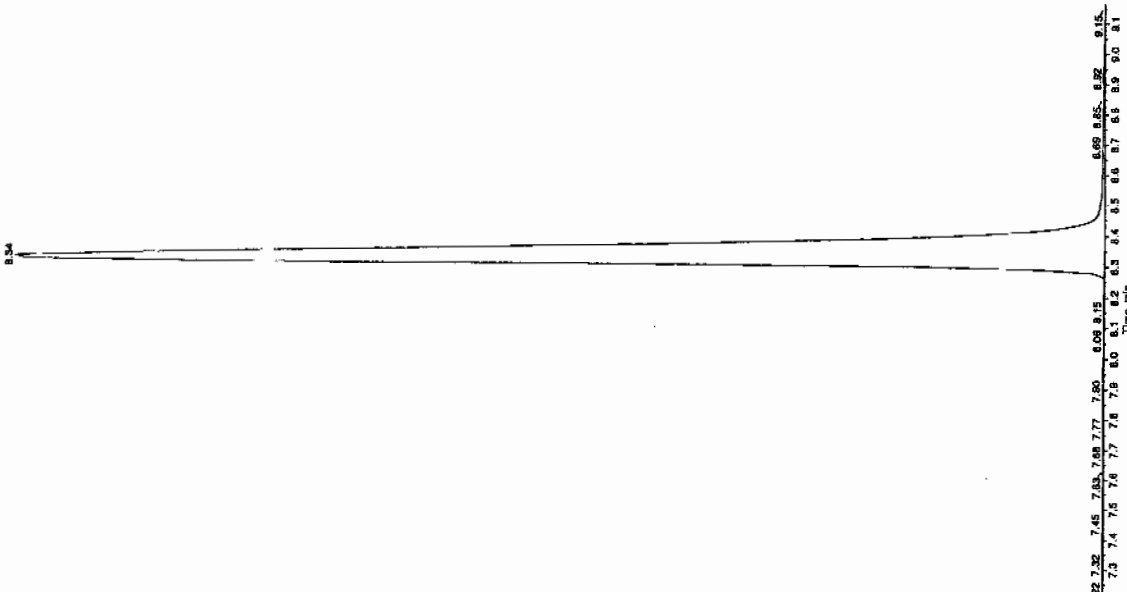
Run 311610

Sample Name: "248029003" Sample ID: "95825791ER" File: "EXS03120059.wit"
 Peak Name: "35-Dinitrofluorene" Mass(es): "182.046.0 amu"
 Comment: "LCX53212S" Annotation: "

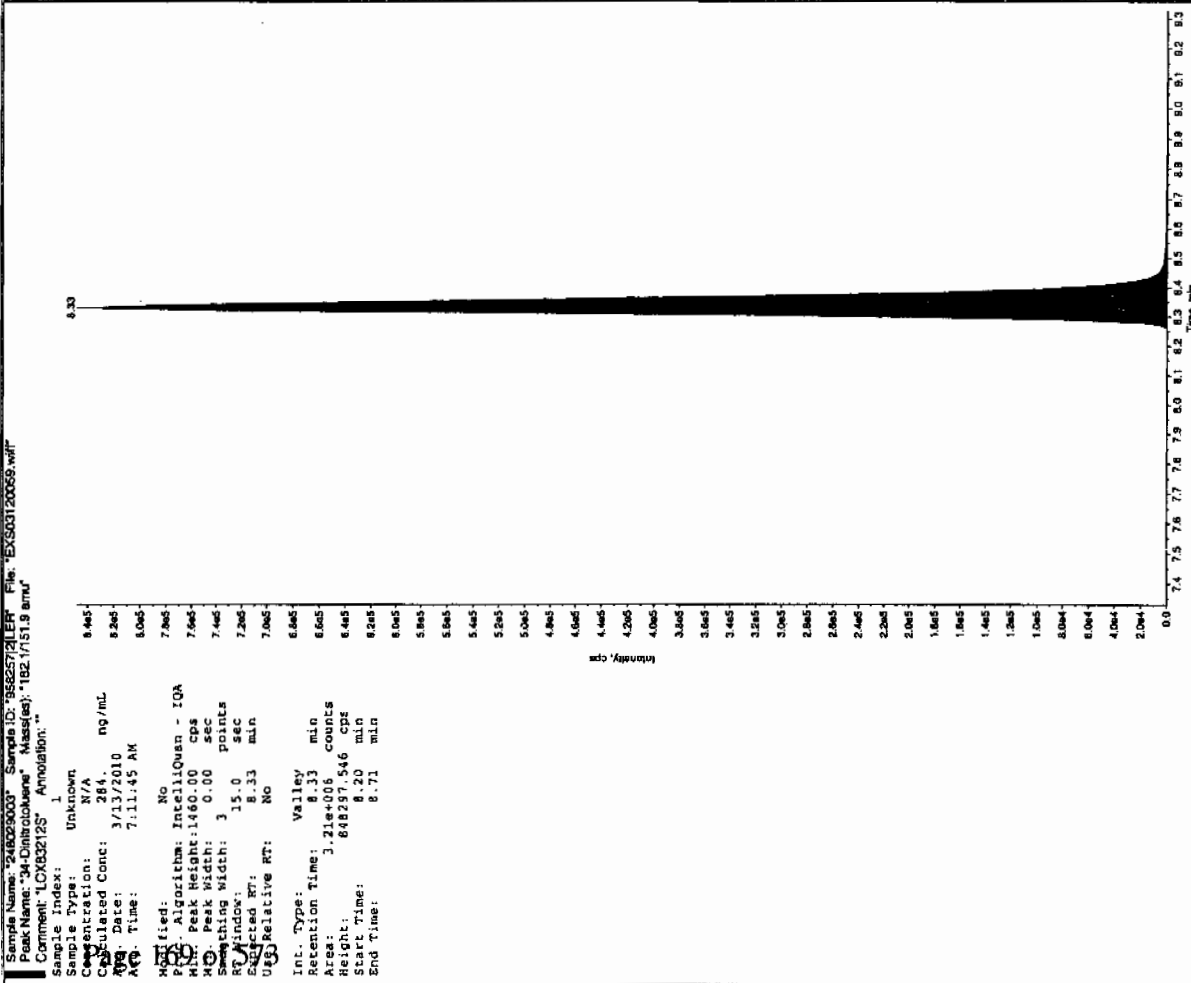
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 7:11:45 AM
 Acq. Time: 7:11:45 AM
 Modified: No

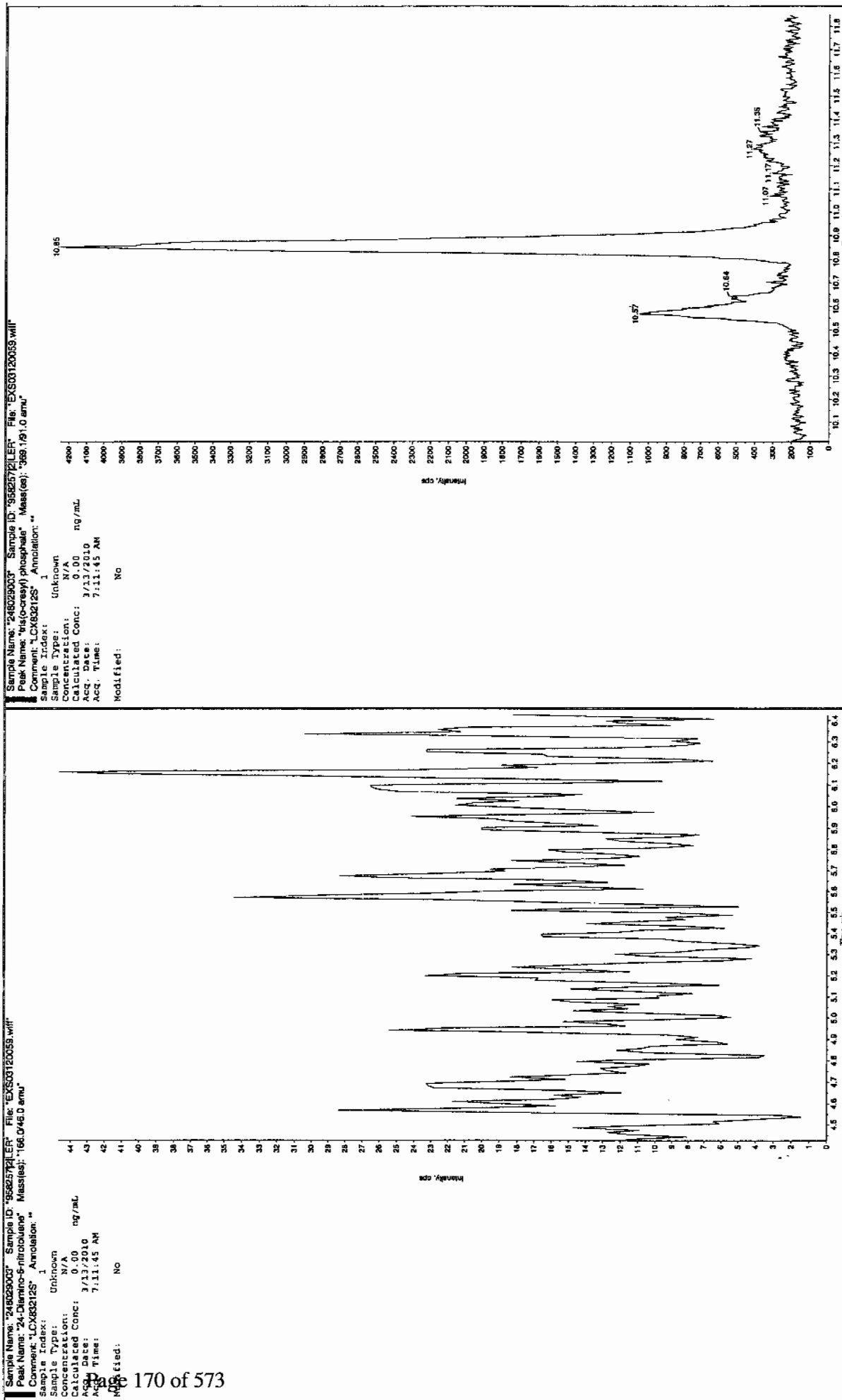


Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 7:11:45 AM
 Acq. Time: 7:11:45 AM
 Modified: No



Run 031710





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8028

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408138a

Date Analyzed: 11-APR-10 16:57

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408138a

Date: 11-Apr-2010

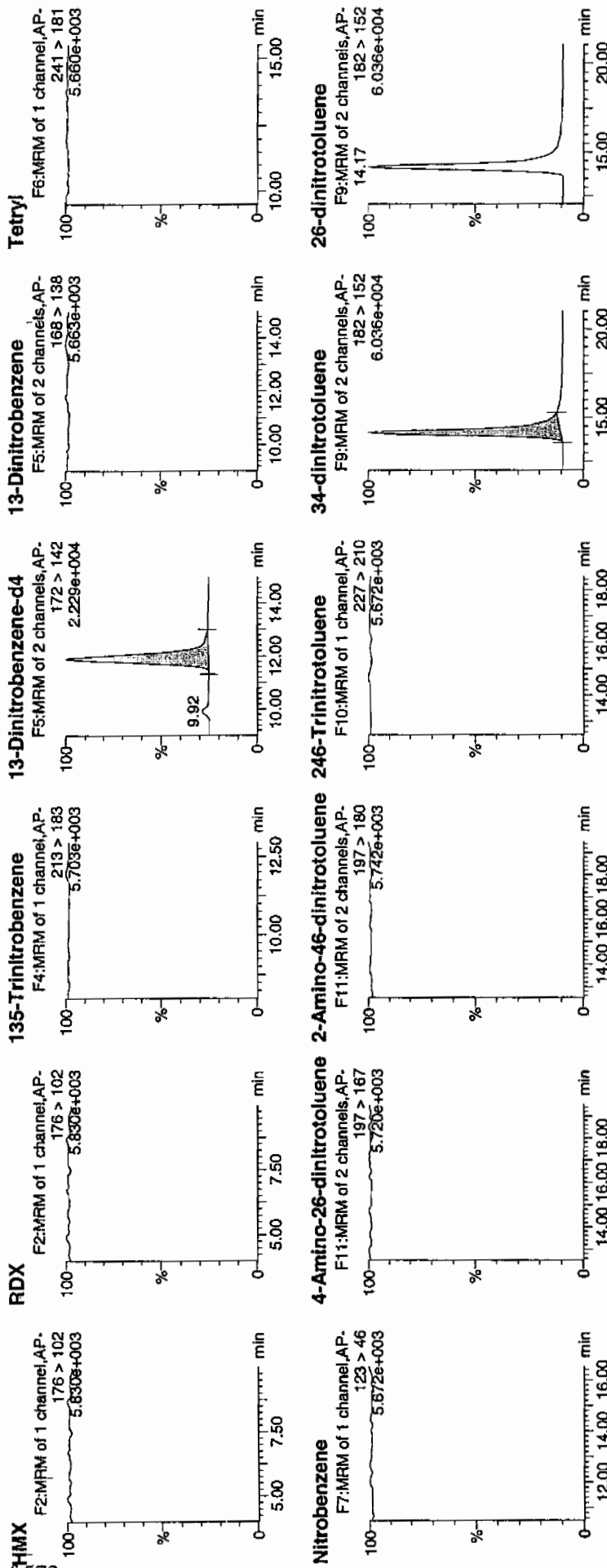
Time: 16:57:12

ID: 248029004

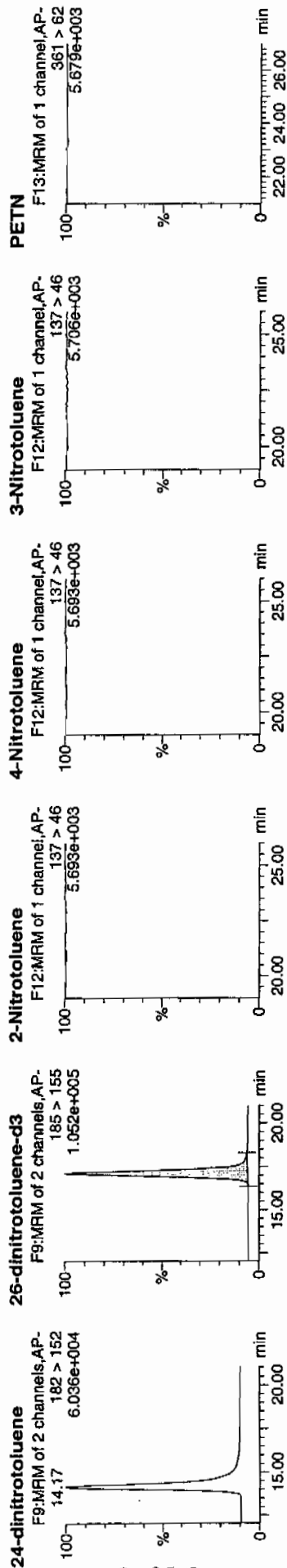
Vial: 2:3,A

4/12/10

Lawrence / 21



Amme 04/13/10



ID	Name	Trace	RT	Area	SArea	Abs.Resp	Response	Flags	Mod.Data	Mod.Time	Eng.ML	%Rec	%Dev	SSN
248029004	HMx	176 > 102			6372.894									
248029004	RDX	176 > 102			6372.894									
248029004	135-Trinitrobenzene	213 > 183			6372.894									
248029004	13-Dinitrobenzene-d4	172 > 142	11.90	6372.894		6372.894	6372.894	bb			490.3698	98.1	-1.9	502.5
248029004	13-Dinitrobenzene	168 > 138			6372.894									
248029004	Tetryl	241 > 181			6372.894									
248029004	Nitrobenzene	123 > 46			6372.894									
248029004	4-Amino-26-dinitrotoluene	197 > 167			41184.094									
248029004	2-Amino-46-dinitrotoluene	197 > 180			41184.094									
248029004	246-Trinitrotoluene	227 > 210			41184.094									
248029004	34-dinitrotoluene	182 > 152	14.17	23616.424	41184.094	23616.424	286.718	bb			279.5664	111.8	11.8	991.0
248029004	26-dinitrotoluene	182 > 152			41184.094									
248029004	24-dinitrotoluene	182 > 152			41184.094									
248029004	26-dinitrotoluene-d3	185 > 155	17.12	41184.094		41184.094	41184.094	bb			521.6004	104.3	4.3	2479.9
248029004	2-Nitrotoluene	137 > 46			41184.094									
248029004	4-Nitrotoluene	137 > 46			41184.094									
248029004	3-Nitrotoluene	137 > 46			41184.094									
248029004	PETN	361 > 62			41184.094									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8028

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029004

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120060.wiff

Date Analyzed: 13-MAR-10 07:27

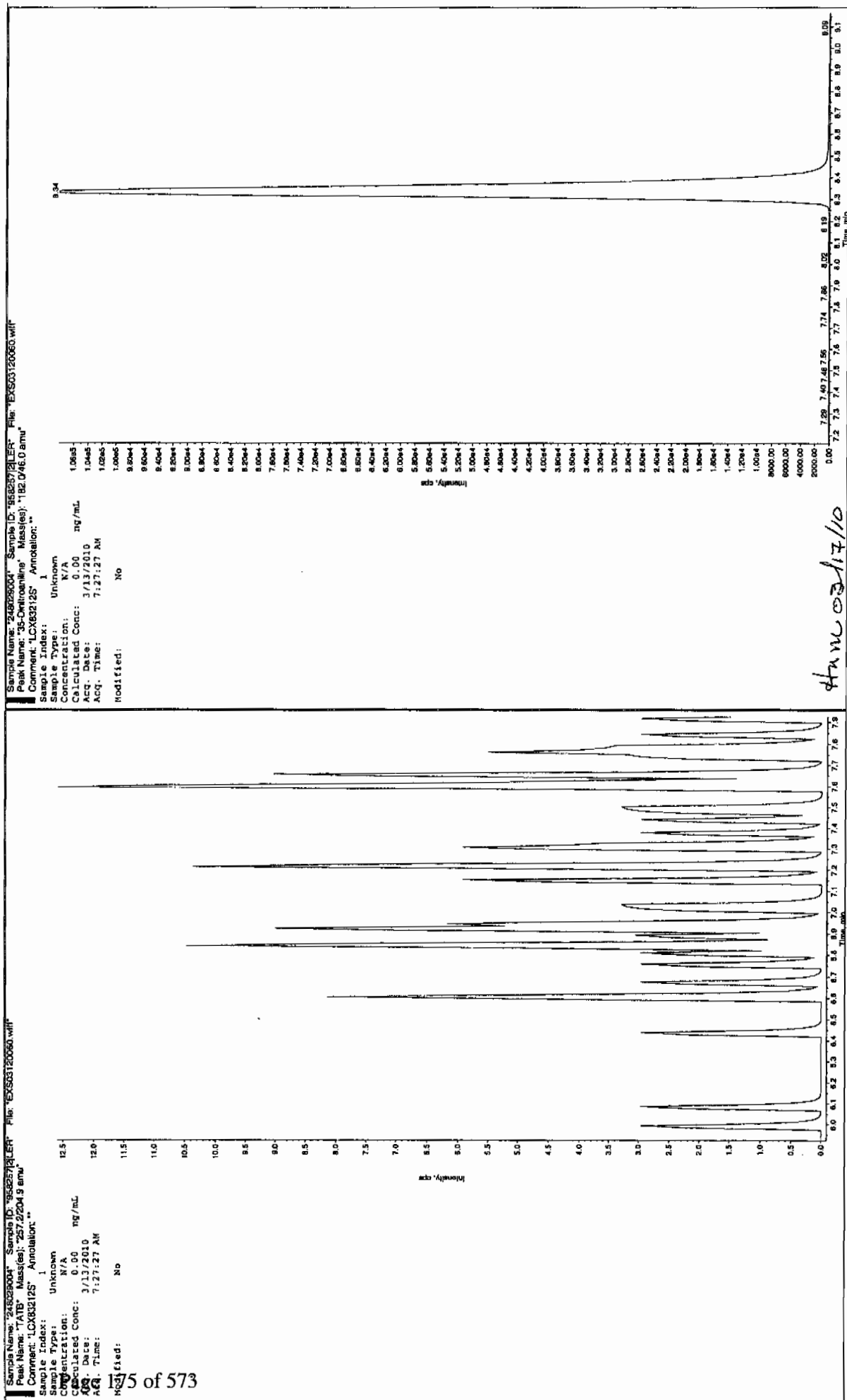
Units: ug/kg

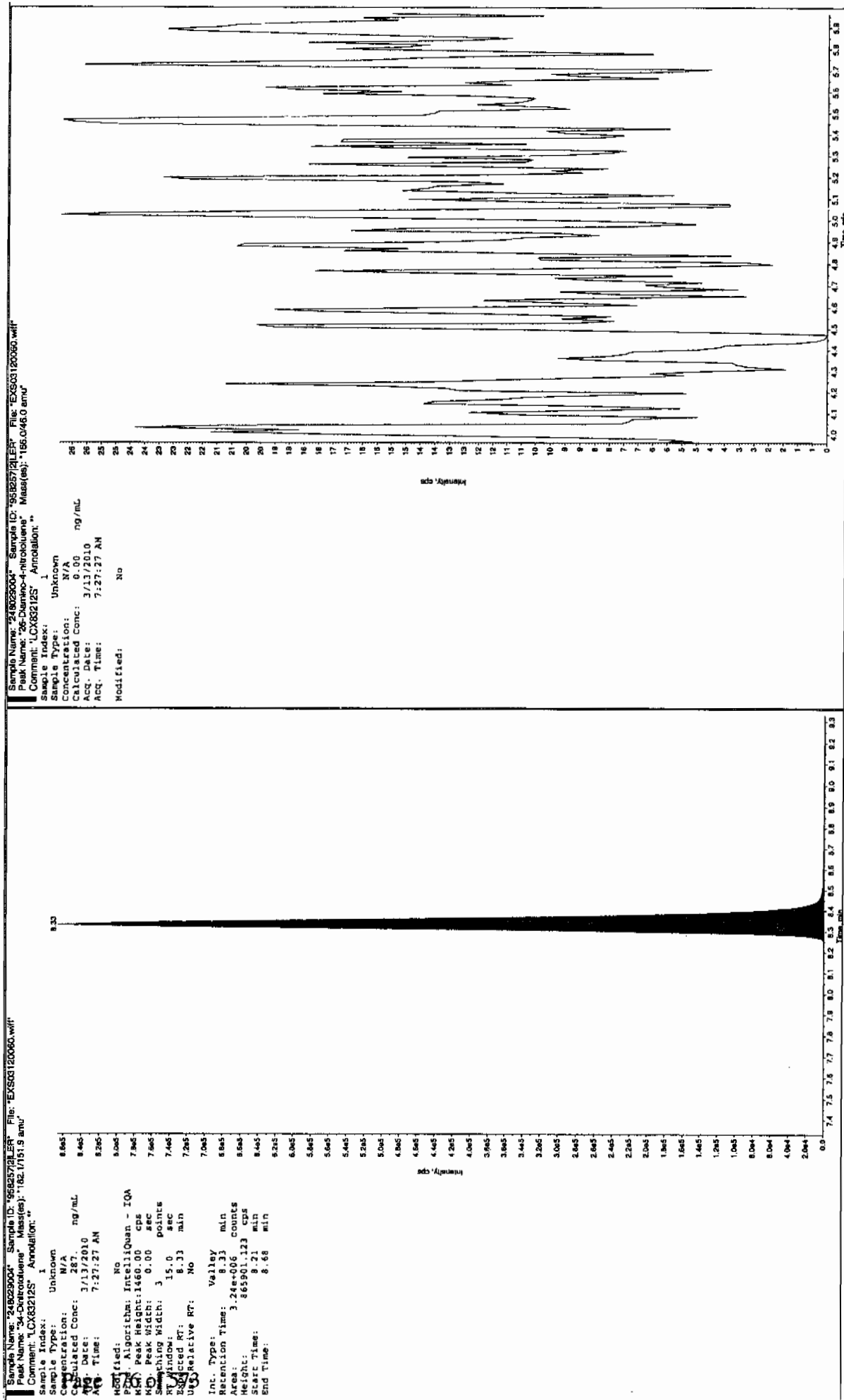
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

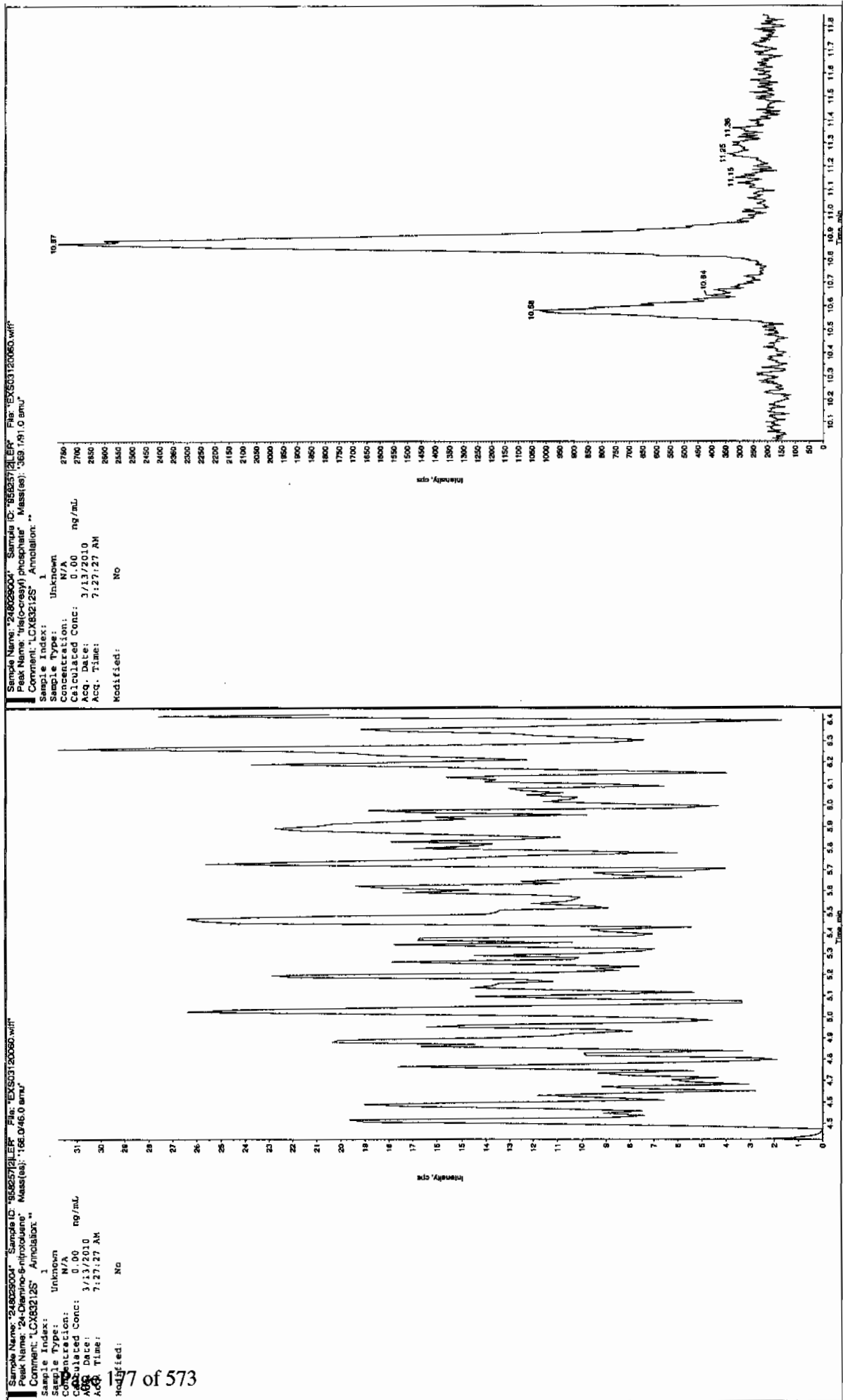
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Run 311010





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



*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: RE15-10-8030

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408139a

Date Analyzed: 11-APR-10 17:26

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408139a

Date: 11-Apr-2010

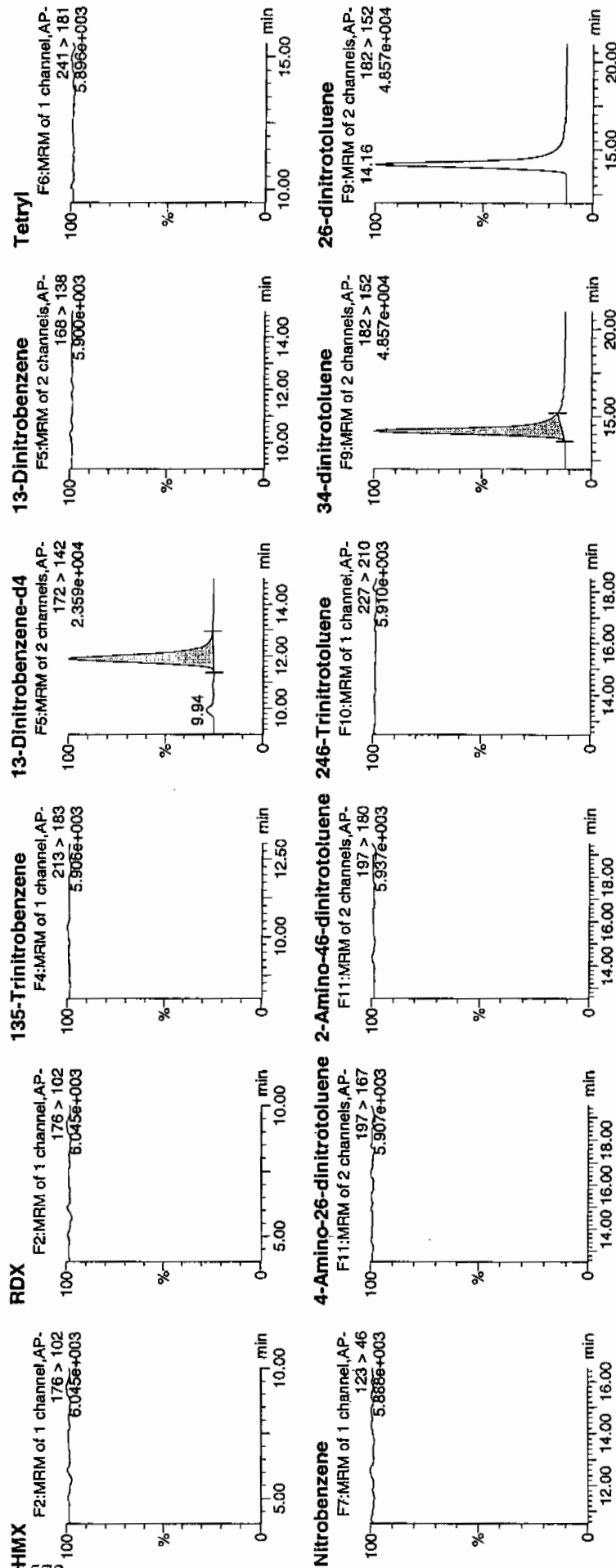
Time: 17:26:42

ID: 248029005

Vial: 2:3,B

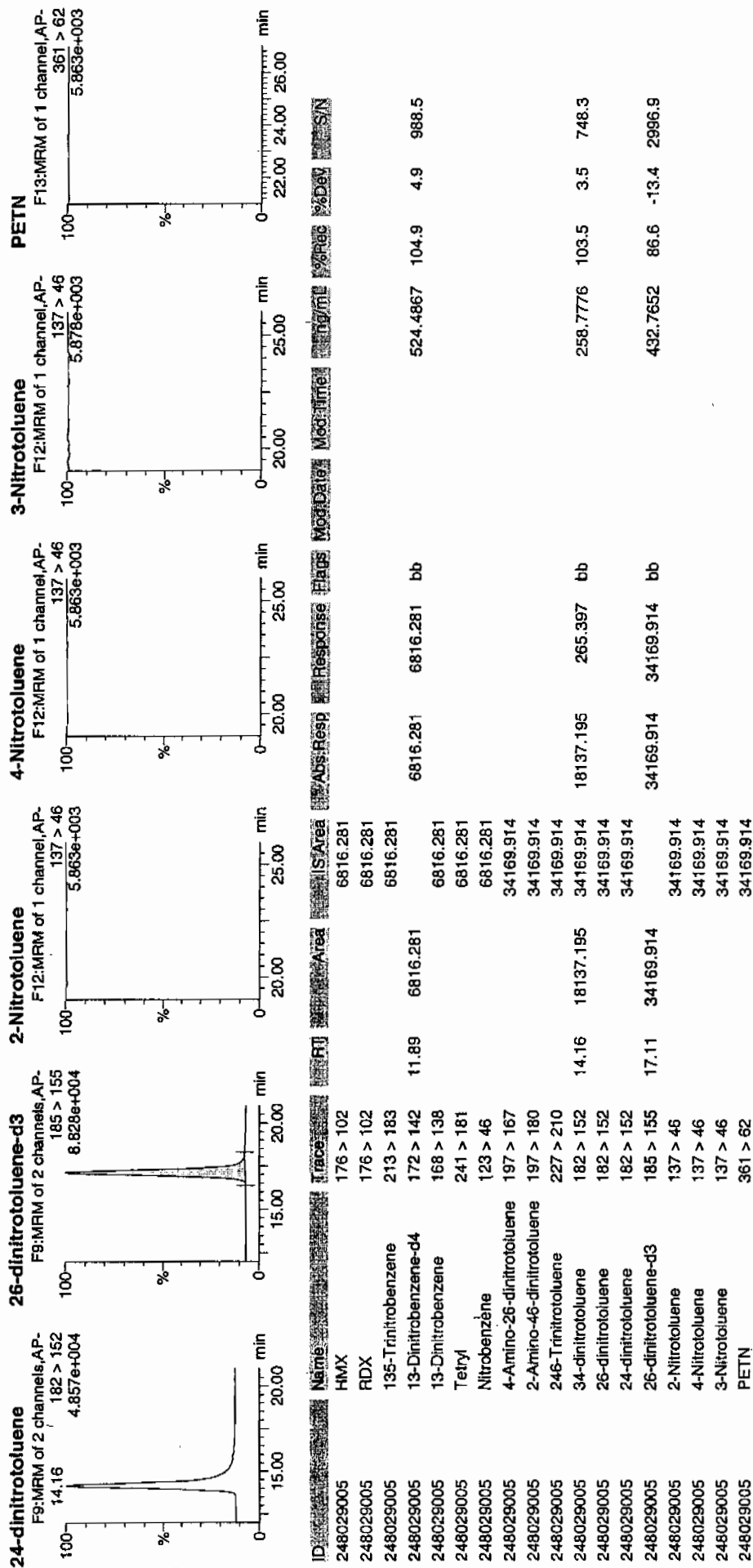
4/12/10

195027 (2)



4/13/10

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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8030

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029005

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120061.wiff

Date Analyzed: 13-MAR-10 07:43

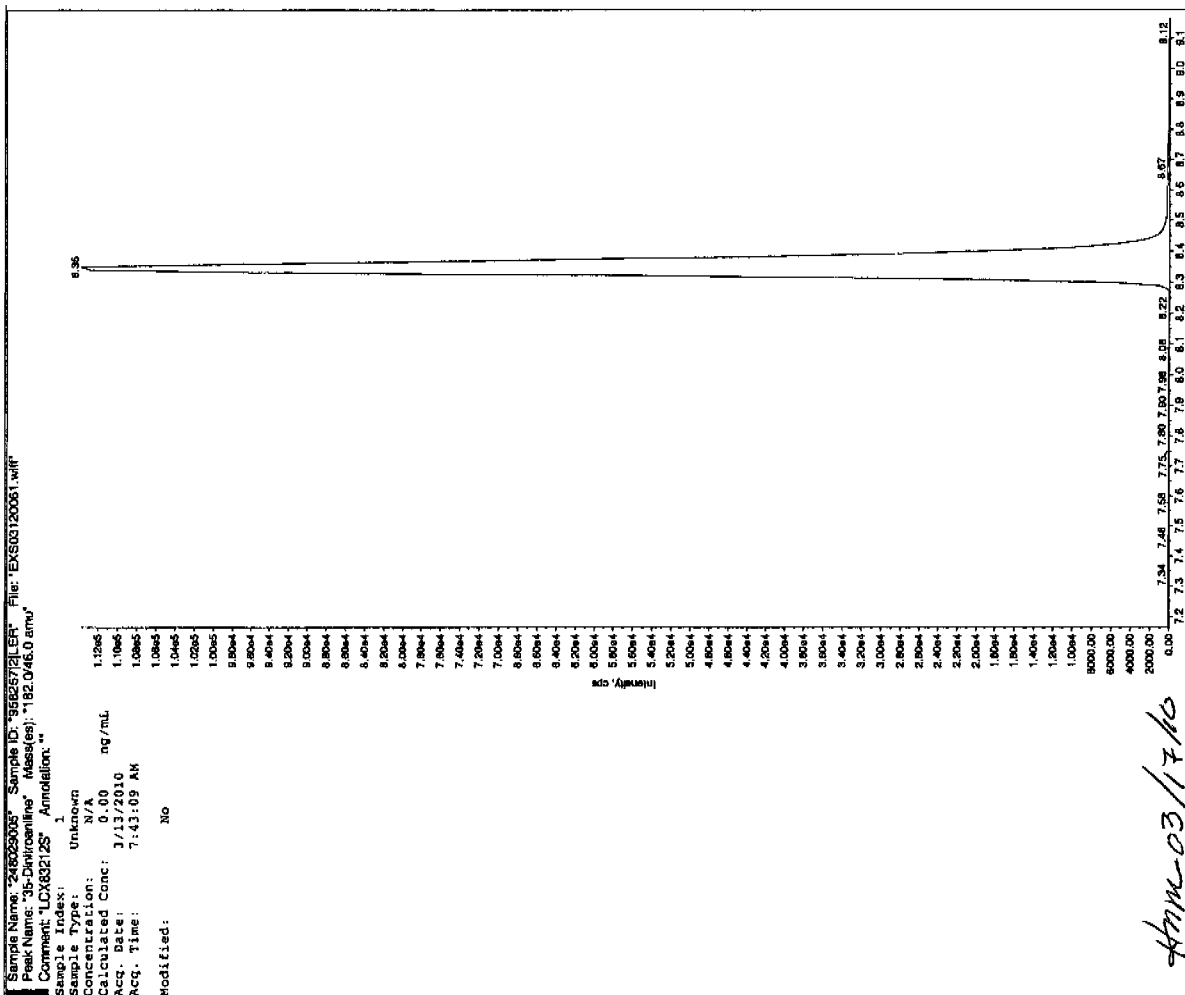
Units: ug/kg

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

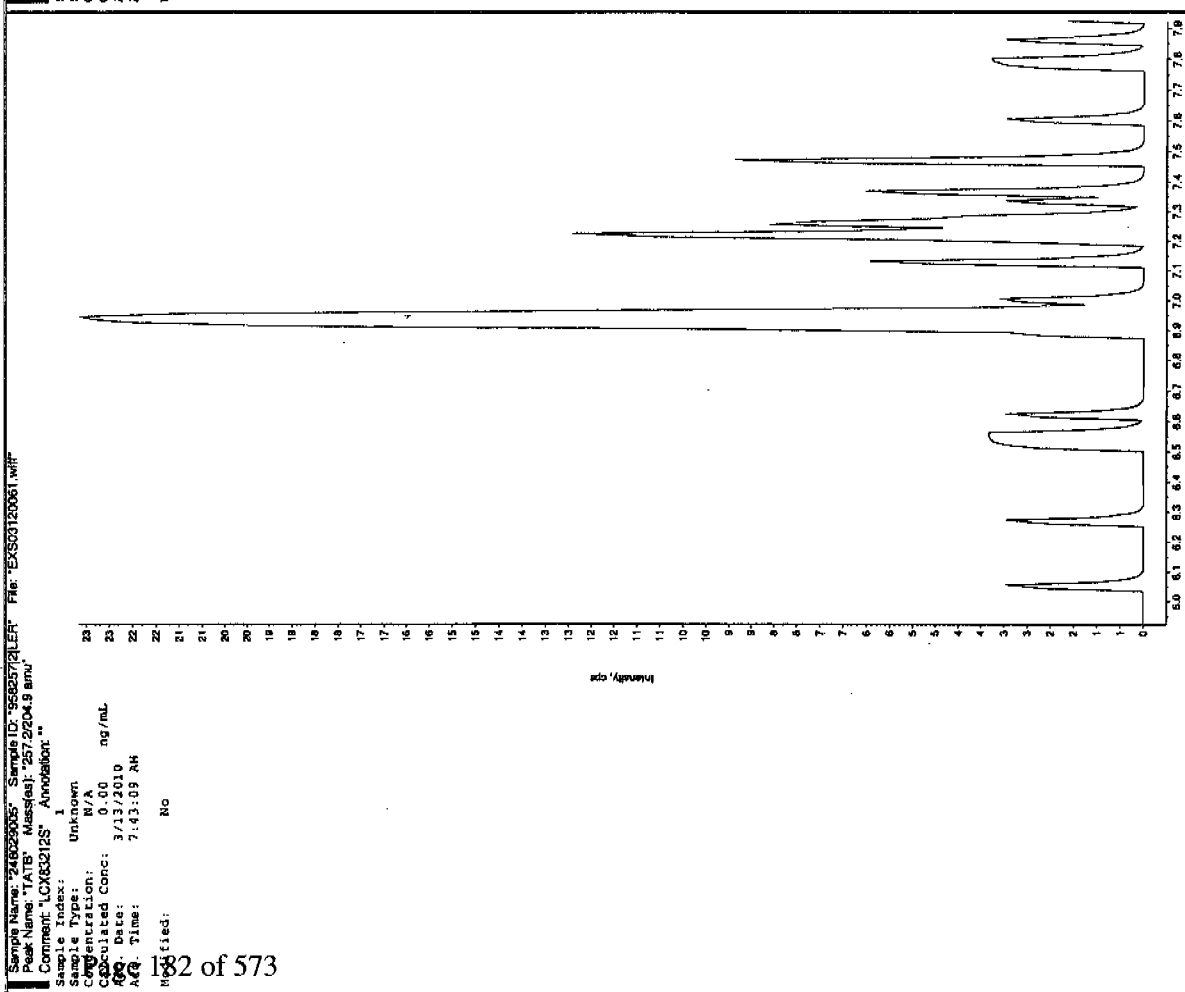
*Concentration =

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

See 3/16/10



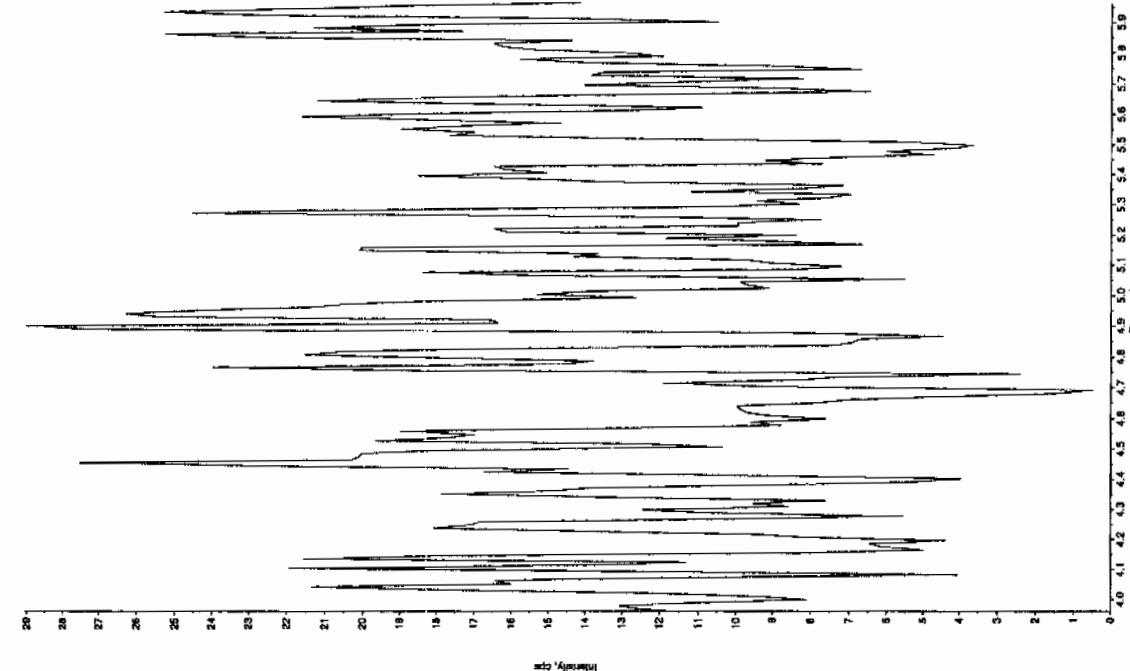
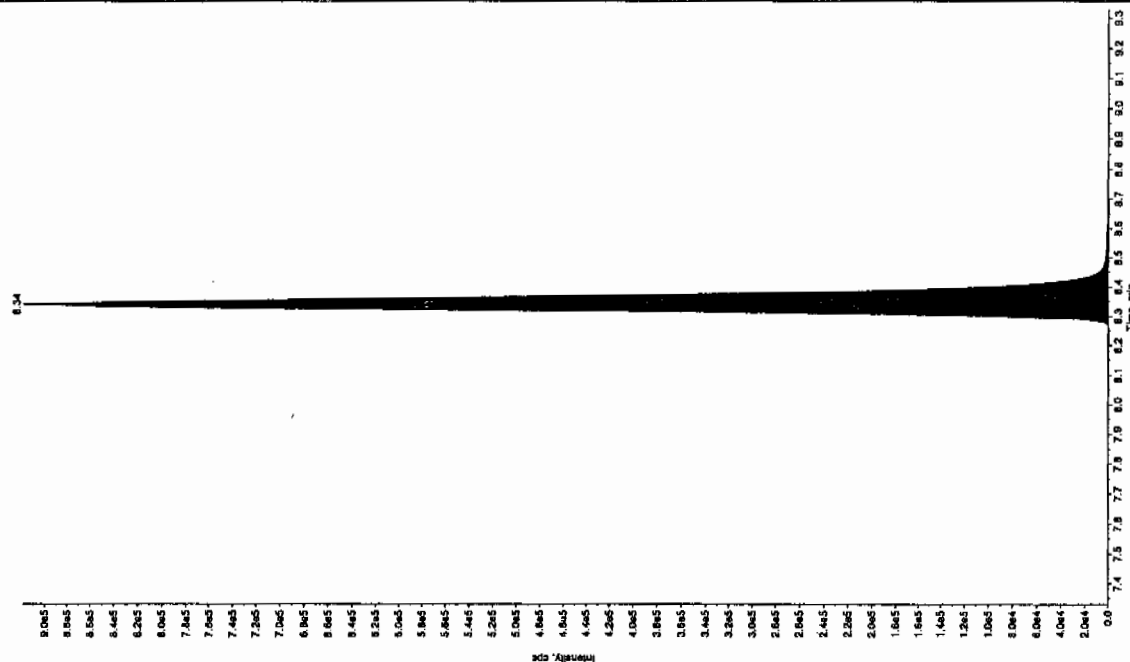
Ham 03/17/10

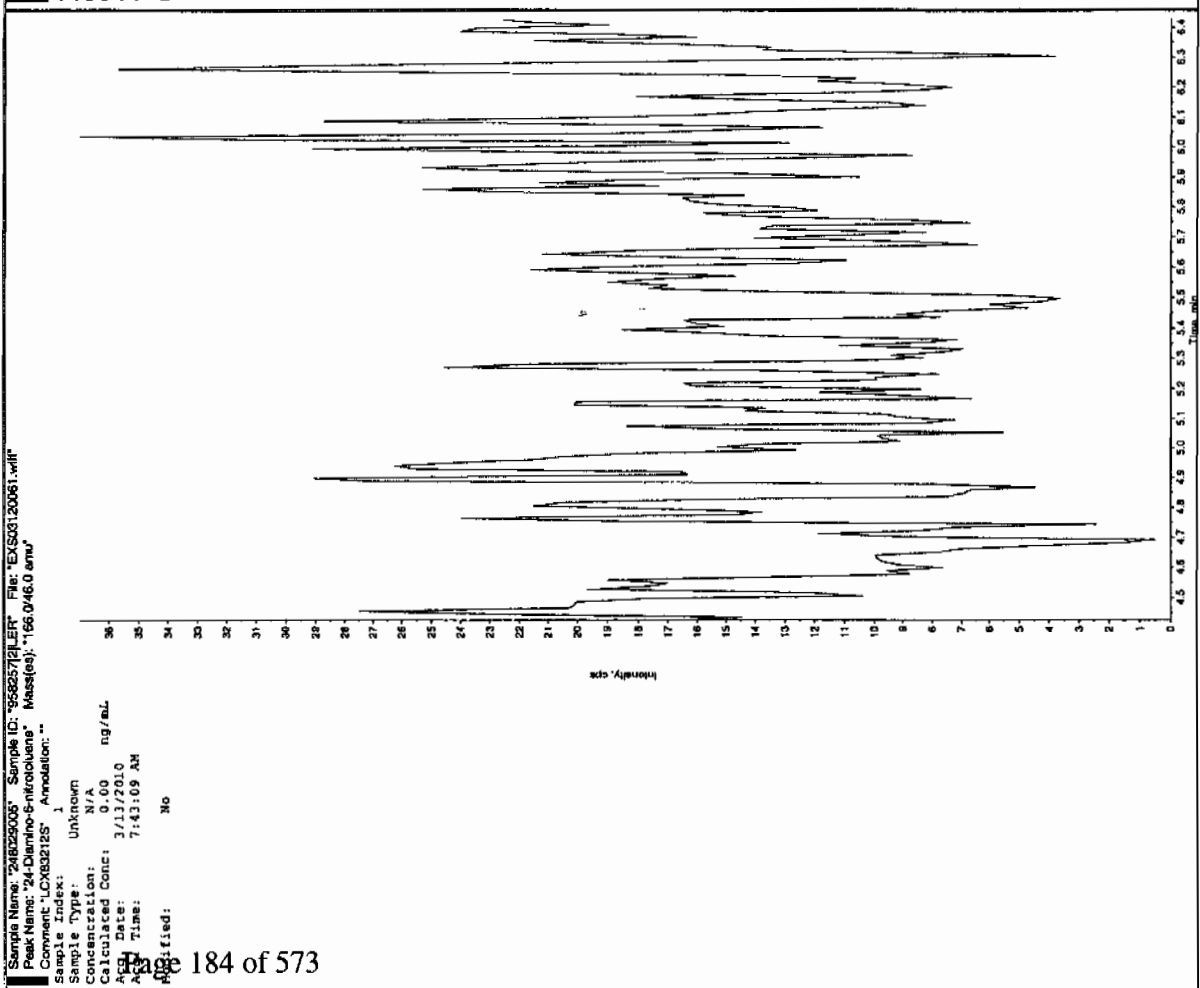
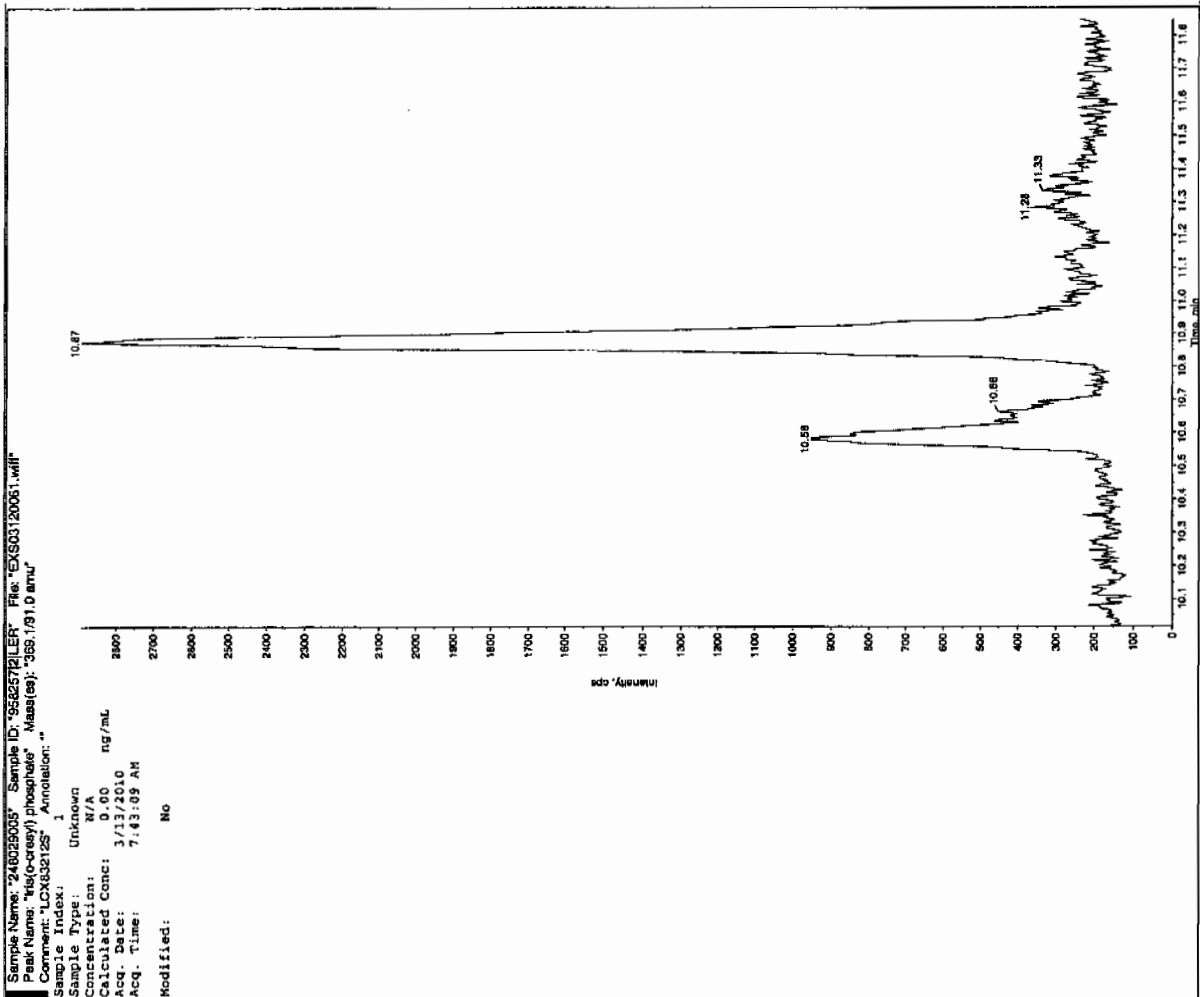


Sample Name: "248029005" Sample ID: "958257121LER" File: "EXS03120061.wiff"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	3/13/2010
Acq. Time:	7:43:09 AM
Modified:	No

Sample Index:	1	Unknown
Sample Type:		
Concentration:	N/A	
Calculated Conc:	294	
Acq Date:	7/13/2010	
Acq Time:	7:43:09 AM	
Modified:		
Program:	NO	
Algorithm:	IntelliScan - 10A	
Min Peak Height:	140.00	cps
Min Peak Width:	0.00	sec
Smoothing Width:	15.0	points
RT Window:		
Exported RT:	8.33	min
Use Relative RT:	NO	
Int. Type:	Valley	
Retention Time:	8.33	min
Counts:	294000	counts
Height:	918049.153	cps
Start Time:	8.23	min
End Time:	8.66	min





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8031

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408140a

Date Analyzed: 11-APR-10 17:56

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408140a

Date: 11-Apr-2010

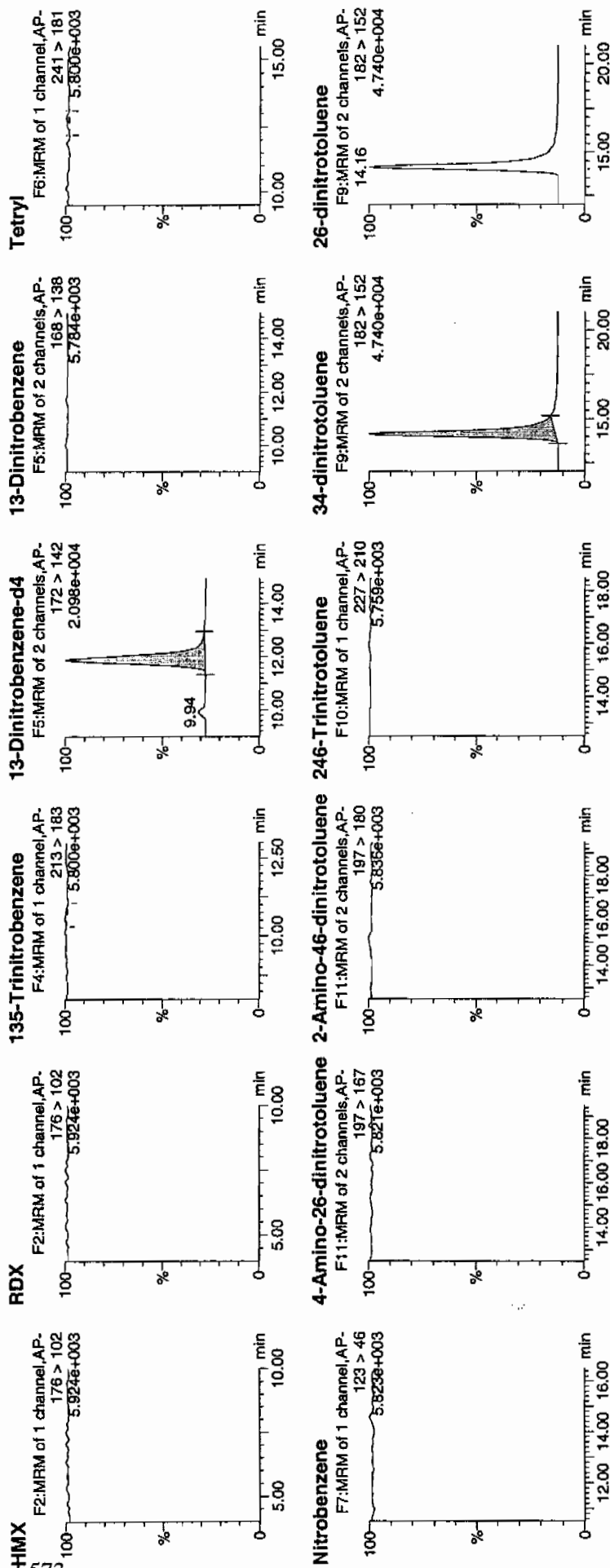
Time: 17:56:11

ID: 248029006

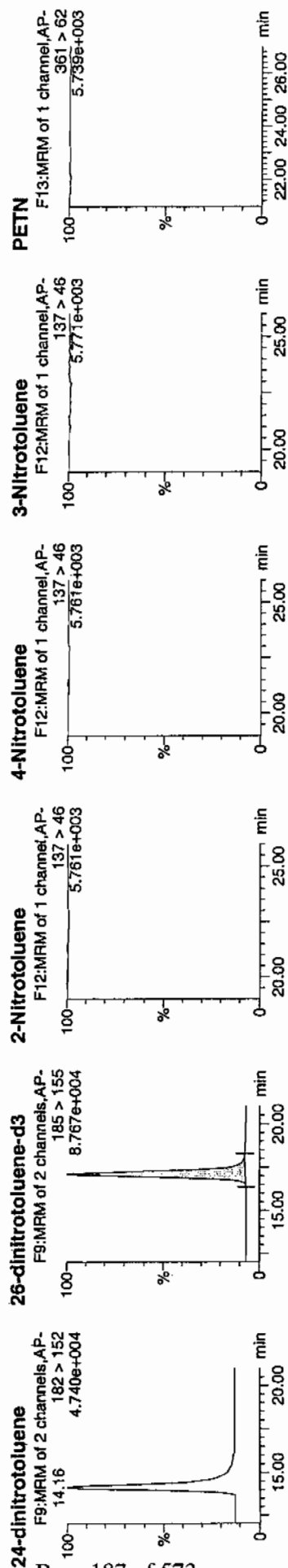
Vial: 2:3,C

Lot# 4426

Law 95257 / Sars / 21



Handwritten signature: 04/13/10



Name	Trace	RT	Area	IS Area	Abs. Resp	Flags	Mod Data	Mod Time	Int	Mod	%Dev	S/N
HMX	248029006	176 > 102		5801.588								
RDX	248029006	176 > 102		5801.588								
135-Trinitrobenzene	248029006	213 > 183		5801.588								
13-Dinitrobenzene-d4	248029006	172 > 142		5801.588		MM-	12-Apr-10	11:47:09				
13-Dinitrobenzene	248029006	168 > 138			5801.588	bb			446.4099	89.3	-10.7	402.6
Tetryl	248029006	241 > 181		5801.588								
Nitrobenzene	248029006	123 > 46		5801.588		MM-	12-Apr-10	11:47:54				
4-Amino-26-dinitrotoluene	248029006	197 > 167		34233.375								
2-Amino-46-dinitrotoluene	248029006	197 > 180		34233.375								
246-Trinitrotoluene	248029006	227 > 210		34233.375								
34-dinitrotoluene	248029006	182 > 152	14.16	17768.705	34233.375	bb			253.0501	101.2	1.2	691.7
26-dinitrotoluene	248029006	182 > 152		34233.375								
24-dinitrotoluene	248029006	182 > 152		34233.375								
26-dinitrotoluene-d3	248029006	185 > 155	17.11	34233.375	34233.375	bb			433.5689	86.7	-13.3	2997.6
2-Nitrotoluene	248029006	137 > 46		34233.375								
4-Nitrotoluene	248029006	137 > 46		34233.375								
3-Nitrotoluene	248029006	137 > 46		34233.375								
PETN	248029006	361 > 62		34233.375								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8031

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120062.wiff

Date Analyzed: 13-MAR-10 07:58

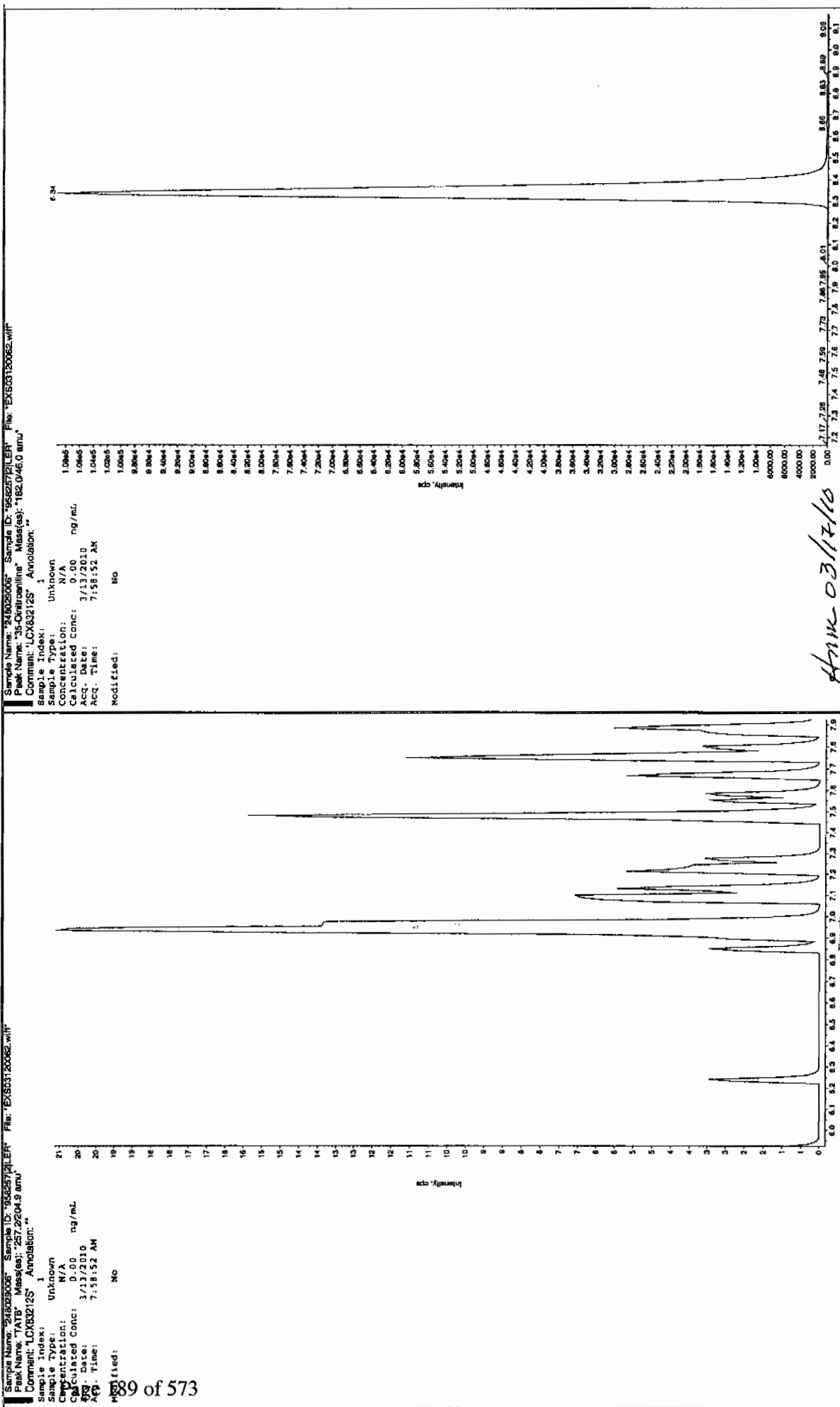
Units: ug/kg

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

*Concentration =

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

Area 3/10/10



Area 03/12/10

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

Sample Name: "24825006" Sample ID: "55825721.E" File: "EX503120062.wif"
 Peak Name: "26-Dinitro-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCX632125" Arridation: "

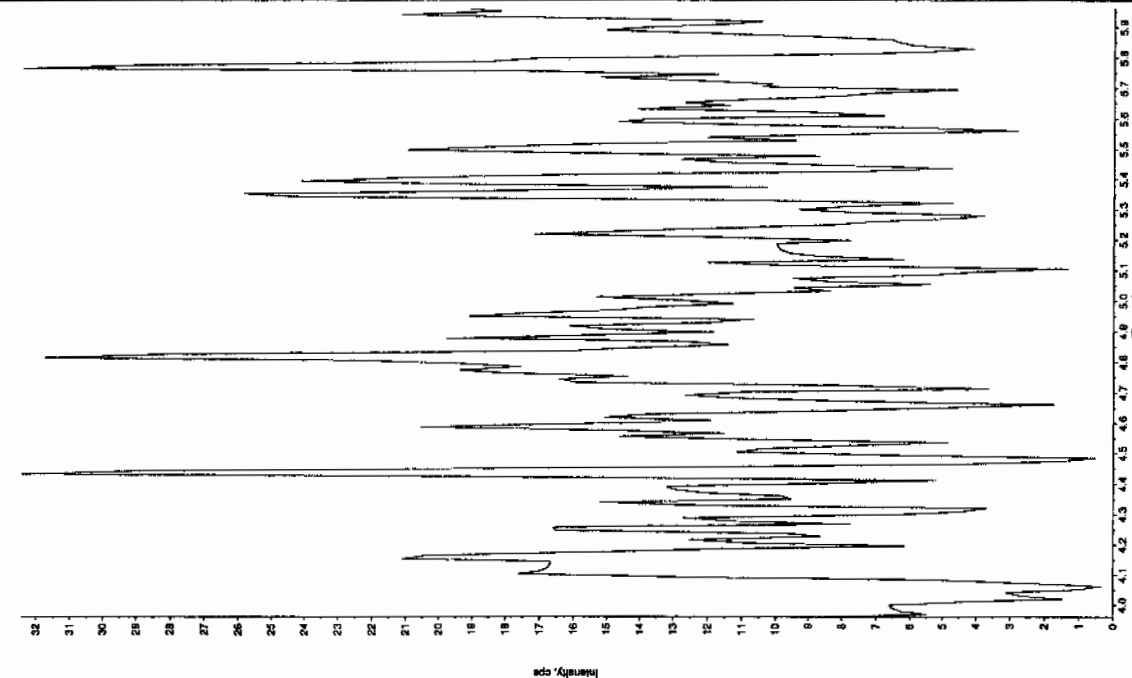
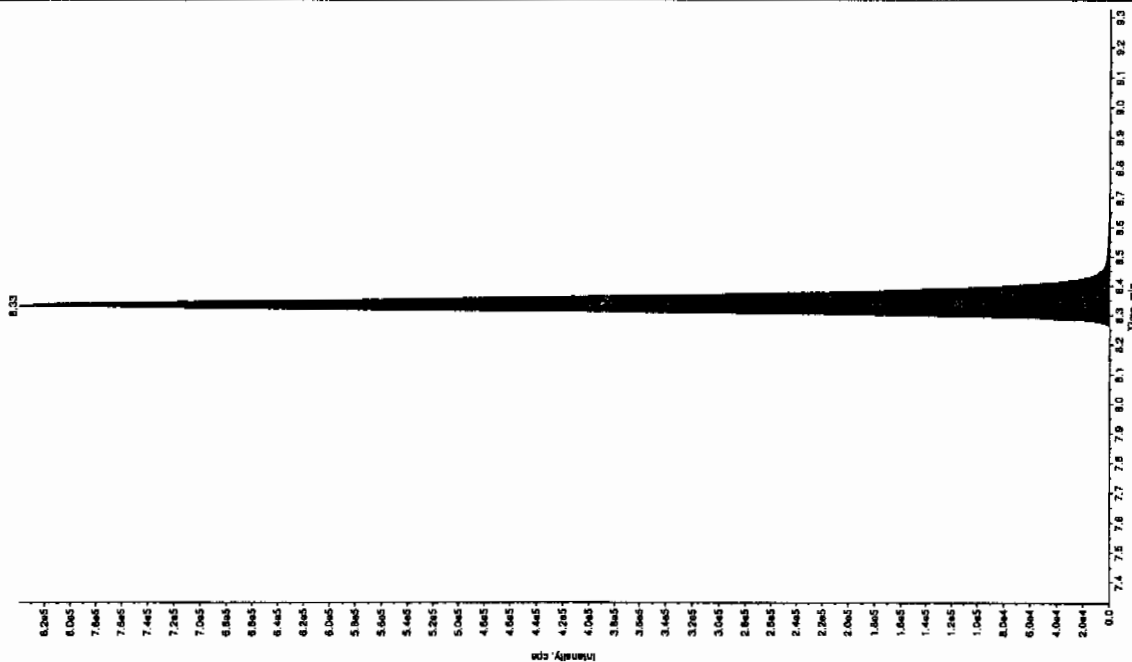
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.0 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 7:58:52 AM
 Modified: No

Sample Name: "24825006" Sample ID: "55825721.E" File: "EX503120062.wif"
 Peak Name: "26-Dinitro-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCX632125" Arridation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 272.0 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 7:58:52 AM

Modified: No
 PGC Algorithm: IntelliQuan - IOA
 PGC Peak Height: 1460.00 cps
 PGC Peak Width: 0.00 sec
 PGC Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 UQS Relative RT: No

Int. Type: Valley
 Retention Time: 8.33 min
 Area: 3.07e+006 counts
 Height: 83895161 cps
 Start Time: 8.15 min
 End Time: 8.63 min

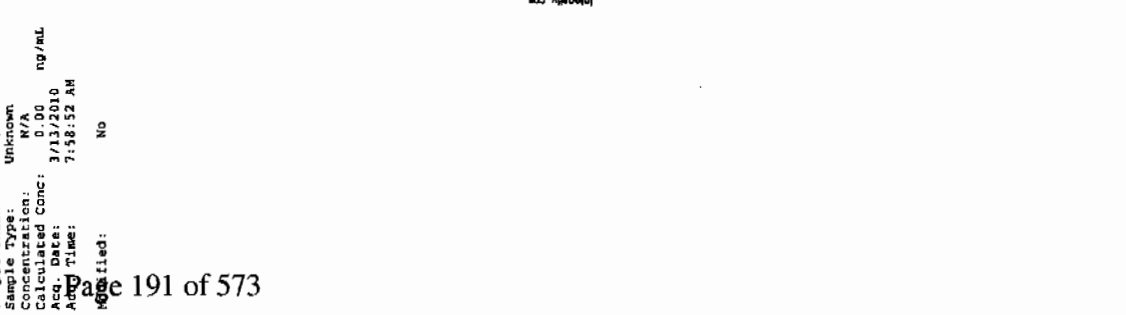
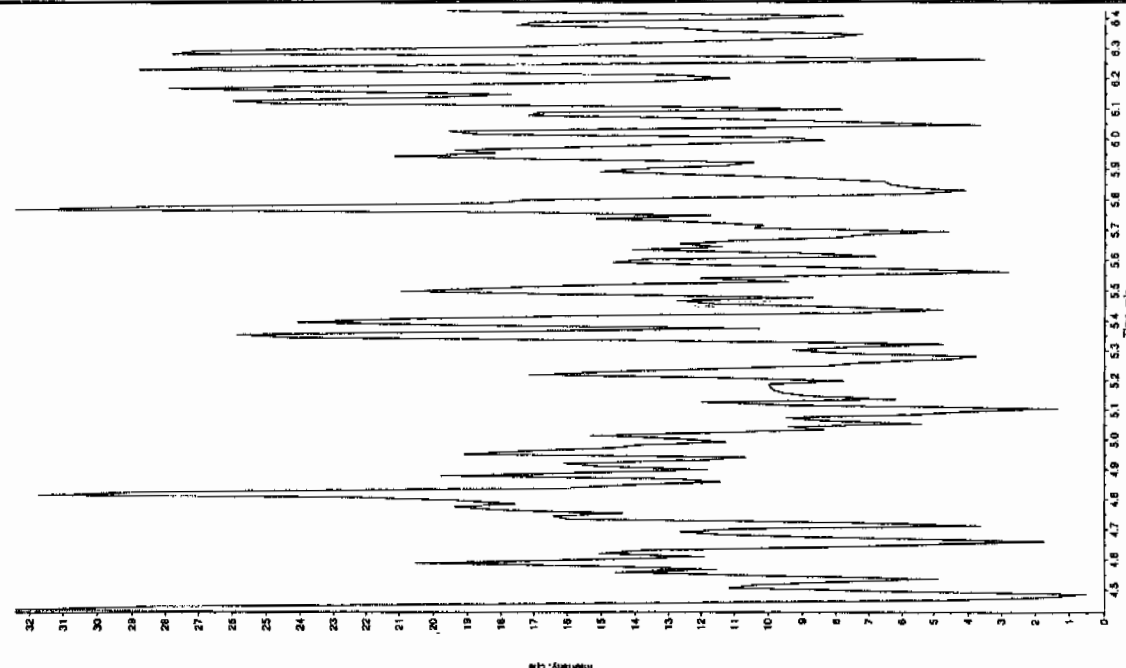


Sample Name: "24802006" Sample ID: "95625721.ER" File: "EXS03120062.wif"
 Peak Name: "24802006" Retention Time: "10.58" Mass(es): "368.191.0 and"

Sample Name: "24802006" Sample ID: "95625721.ER" File: "EXS03120062.wif"
 Peak Name: "24802006" Retention Time: "10.58" Mass(es): "368.191.0 and"

Sample Name: "24802006" Sample ID: "95625721.ER" File: "EXS03120062.wif"
 Peak Name: "24802006" Retention Time: "10.58" Mass(es): "368.191.0 and"

Sample Name: "24802006" Sample ID: "95625721.ER" File: "EXS03120062.wif"
 Peak Name: "24802006" Retention Time: "10.58" Mass(es): "368.191.0 and"



*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: RE15-10-8029

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408141a

Date Analyzed: 11-APR-10 18:25

Units: ug/kg

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

*Concentration =

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408141a

Date: 11-Apr-2010

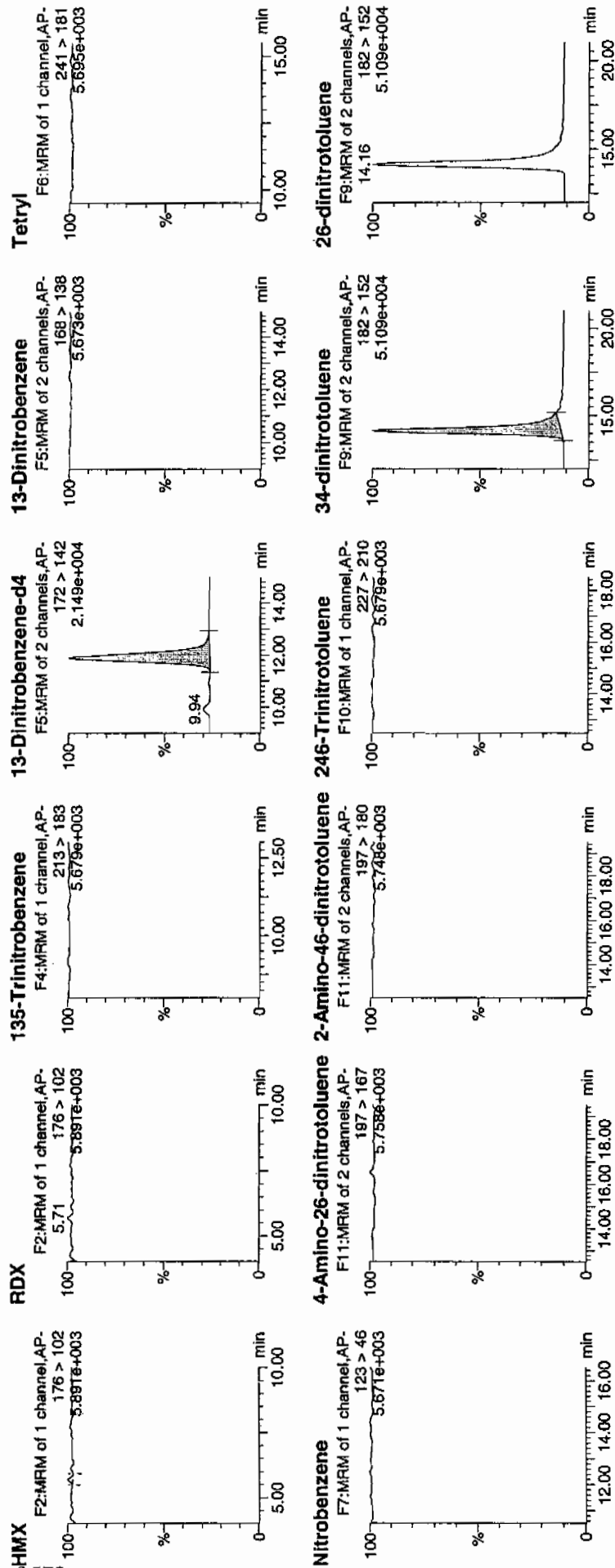
Time: 18:25:41

ID: 248029007

Vial: 2:3,D

2007
 4/12/10

WAV 958257 / 8022 / 21



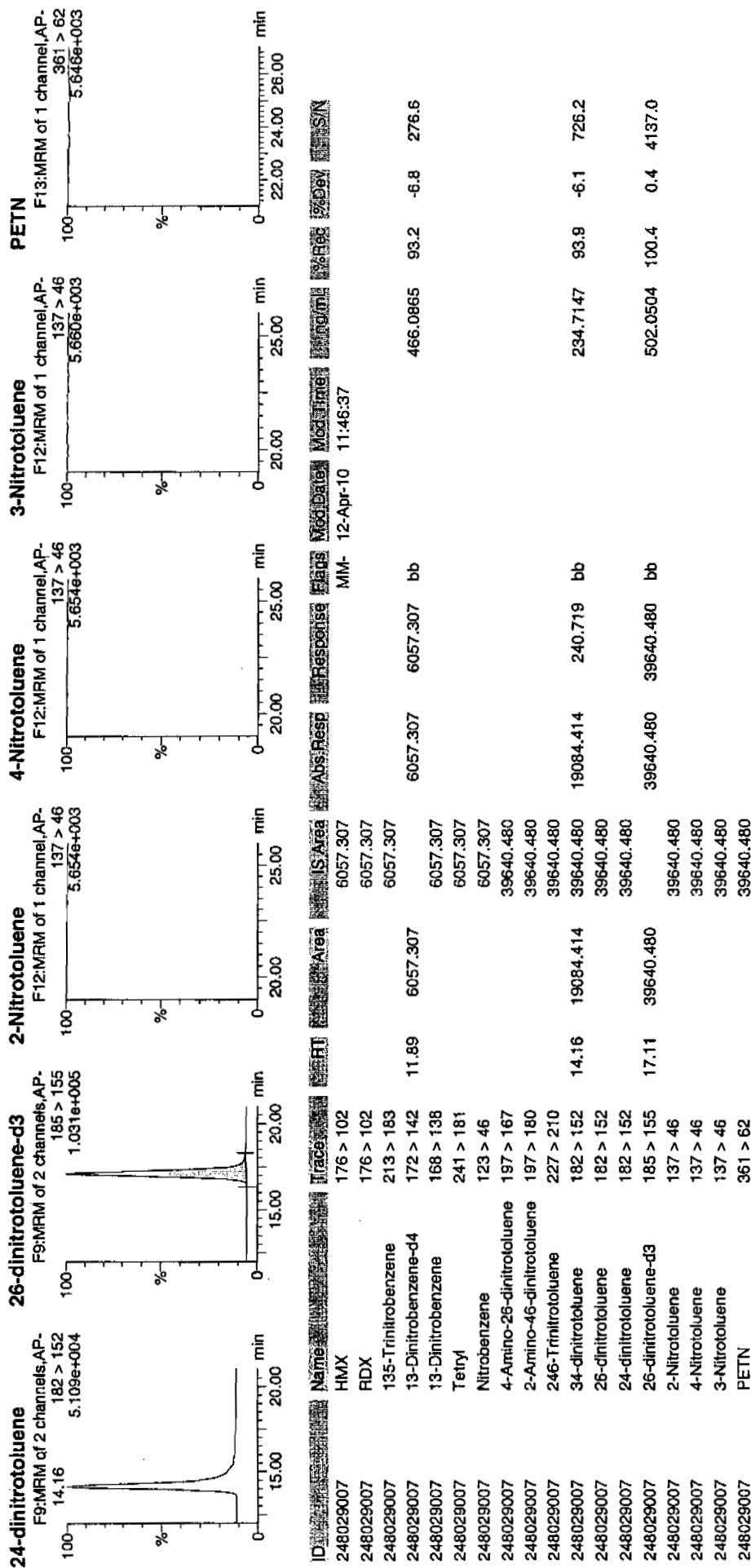
ARM
 24/12/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 38 of 105

Dataset: C:\MASSLYNX\New_Exp_PROV040810expA3.qld, Time: Mon Apr 12 11:58:31 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8029

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120066.wiff

Date Analyzed: 13-MAR-10 09:01

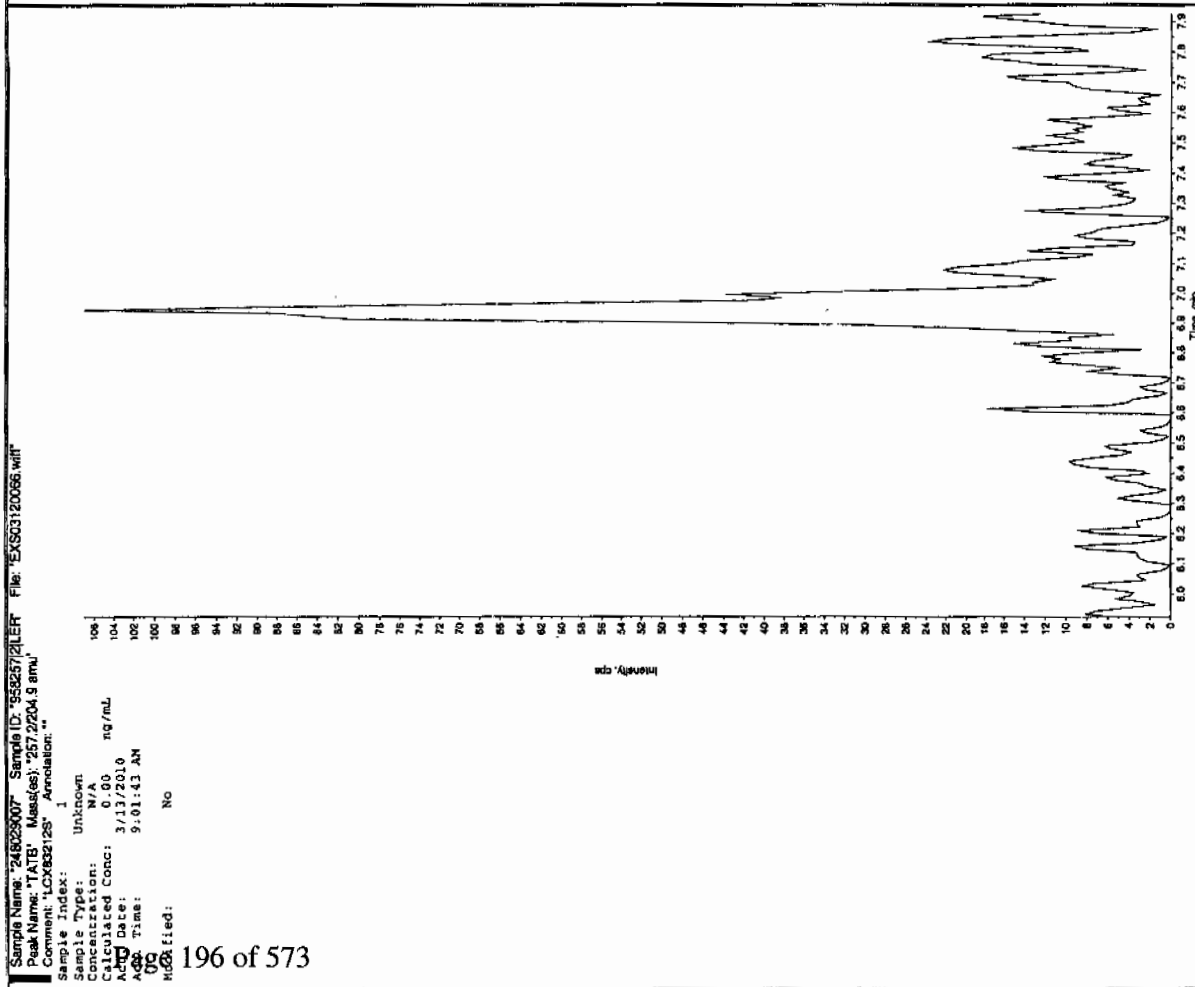
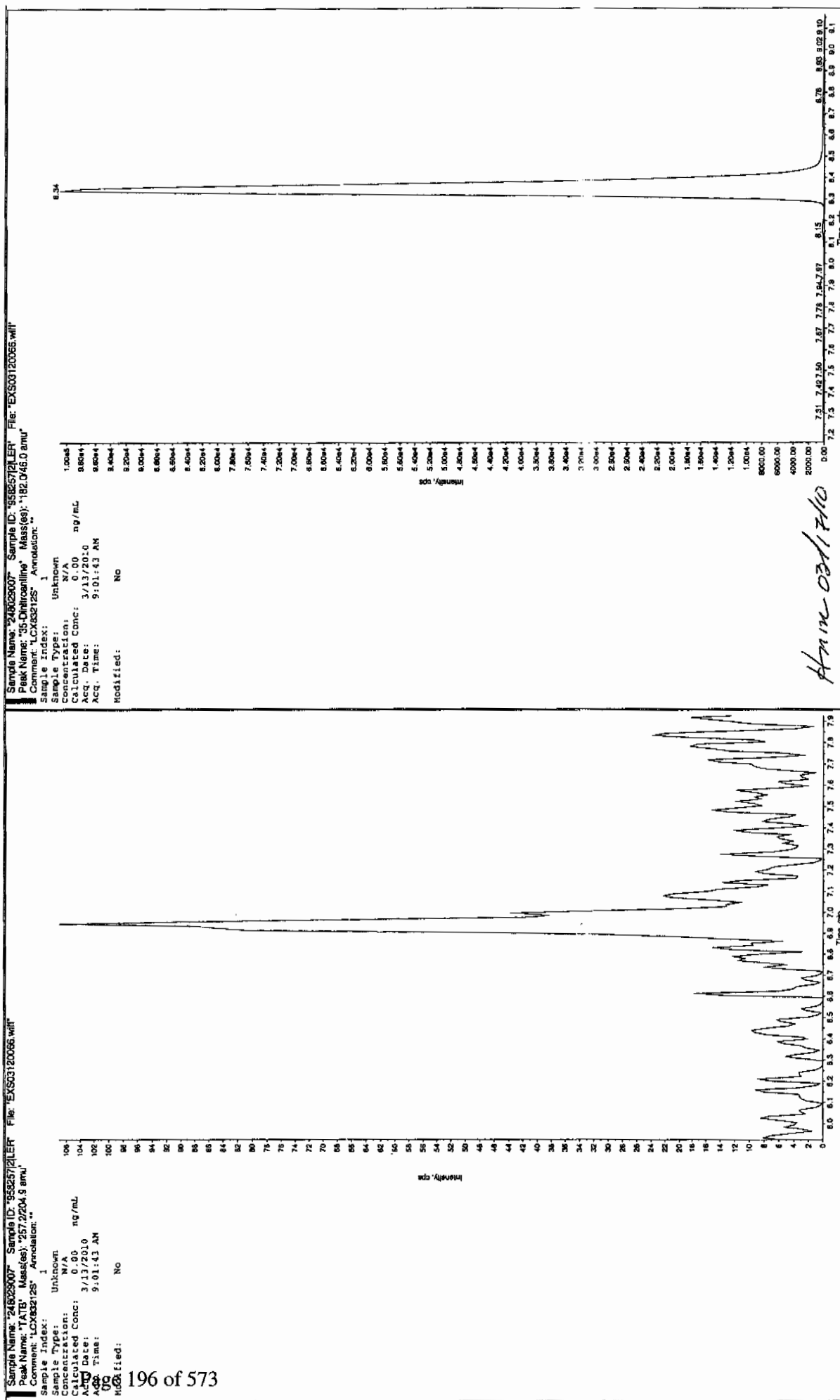
Units: ug/kg

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

Ken 3/16/10

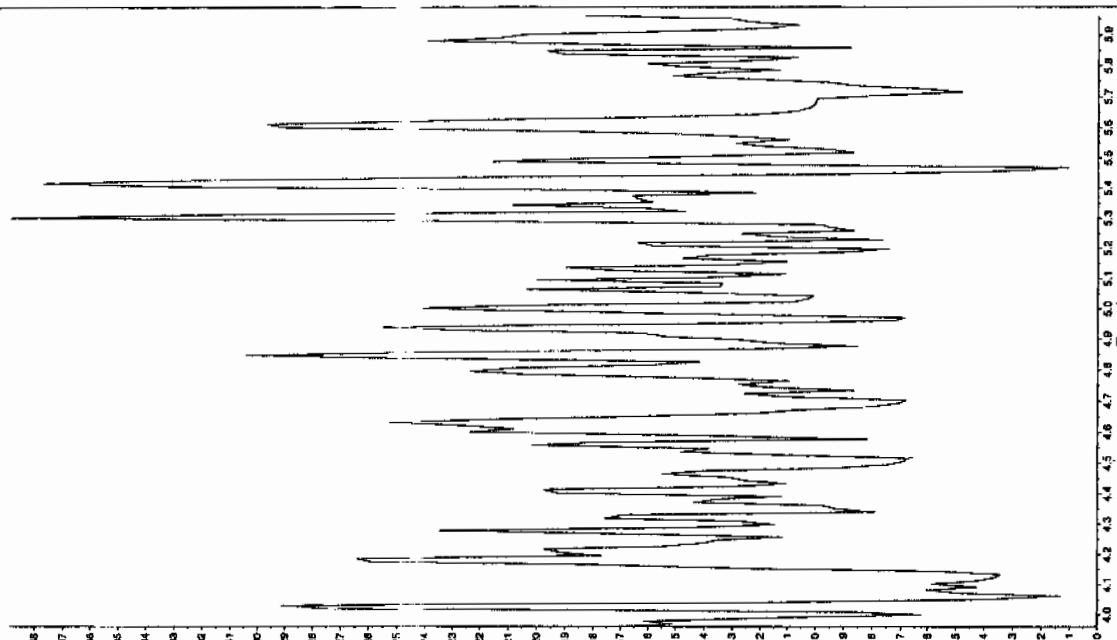


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: 24802607 Sample ID: 96825721.EP File: EXS03120068.wif
 Peak Name: 26-Dinitro-4-nitrofluorene Mass(es): 166.046.0 amu
 Comment: LCX832125 Amplifier: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 9:01:43 AM
 Acq. Time:
 Modified: No

Intensity, cps

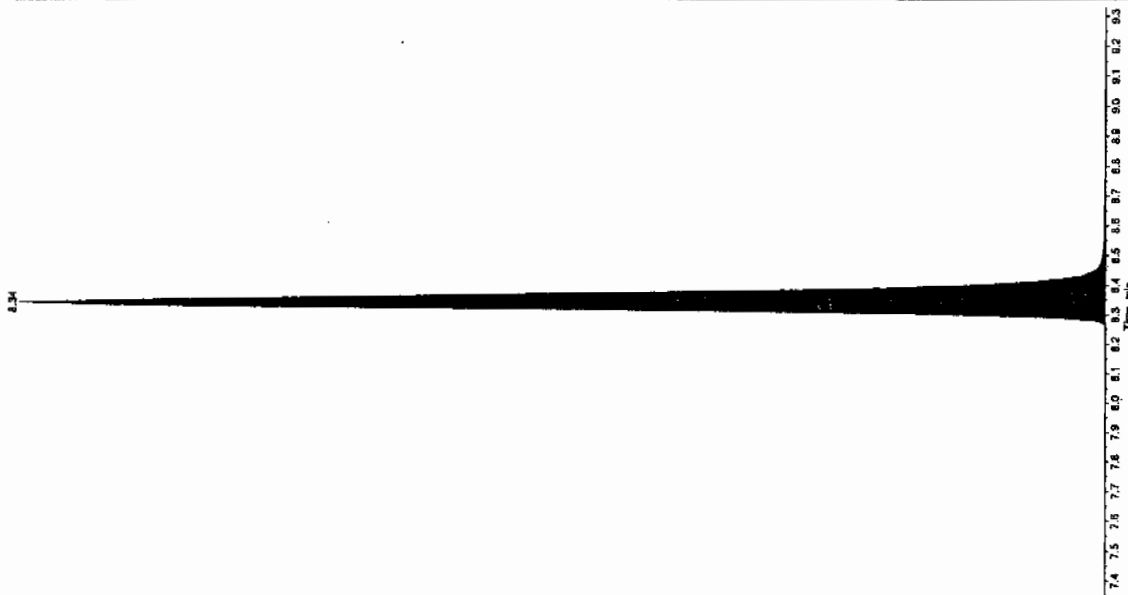


Sample Name: 94802607 Sample ID: 96825721.EP File: EXS03120068.wif
 Peak Name: 26-Dinitro-4-nitrofluorene Mass(es): 166.046.0 amu
 Comment: LCX832125 Amplifier: "

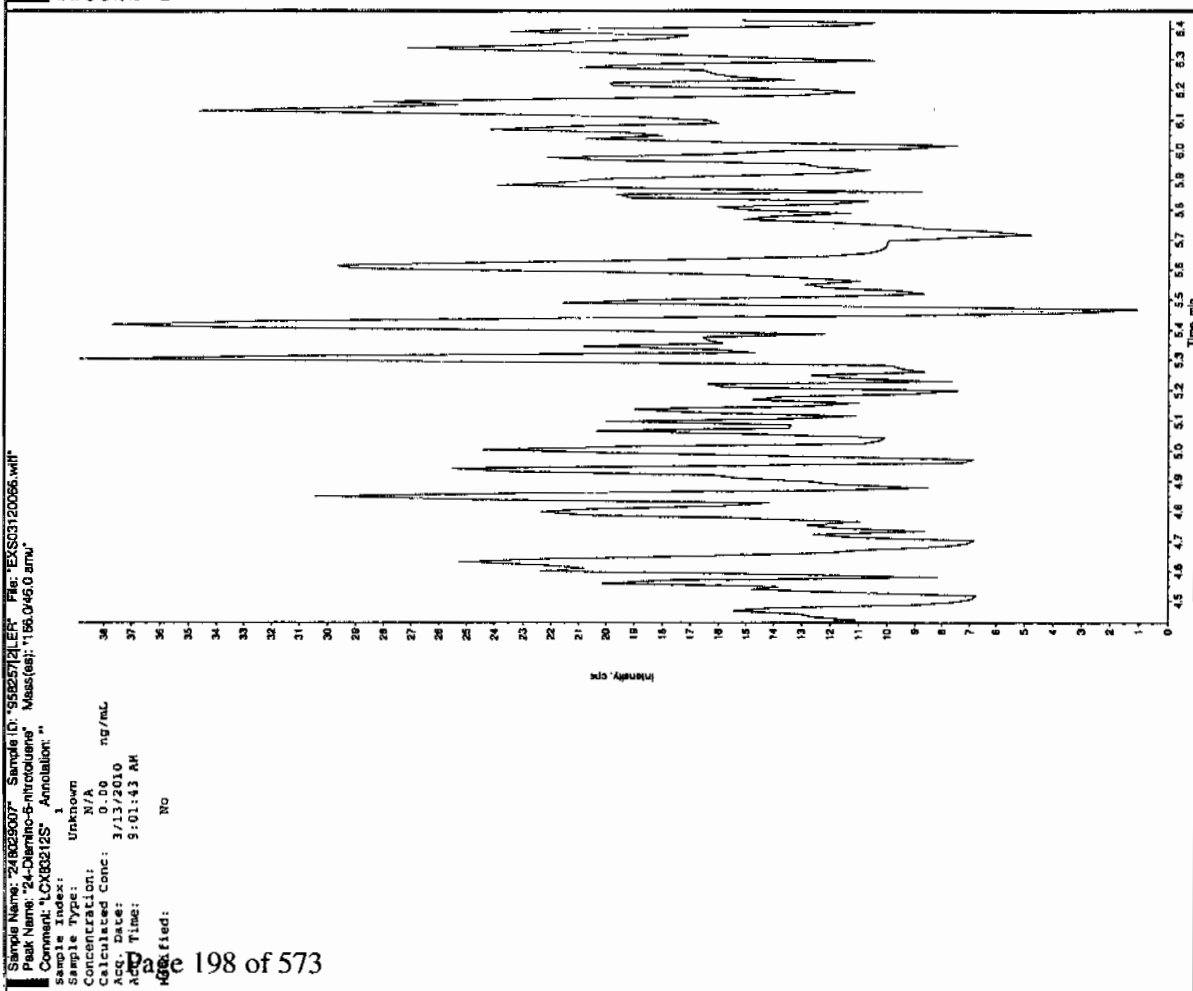
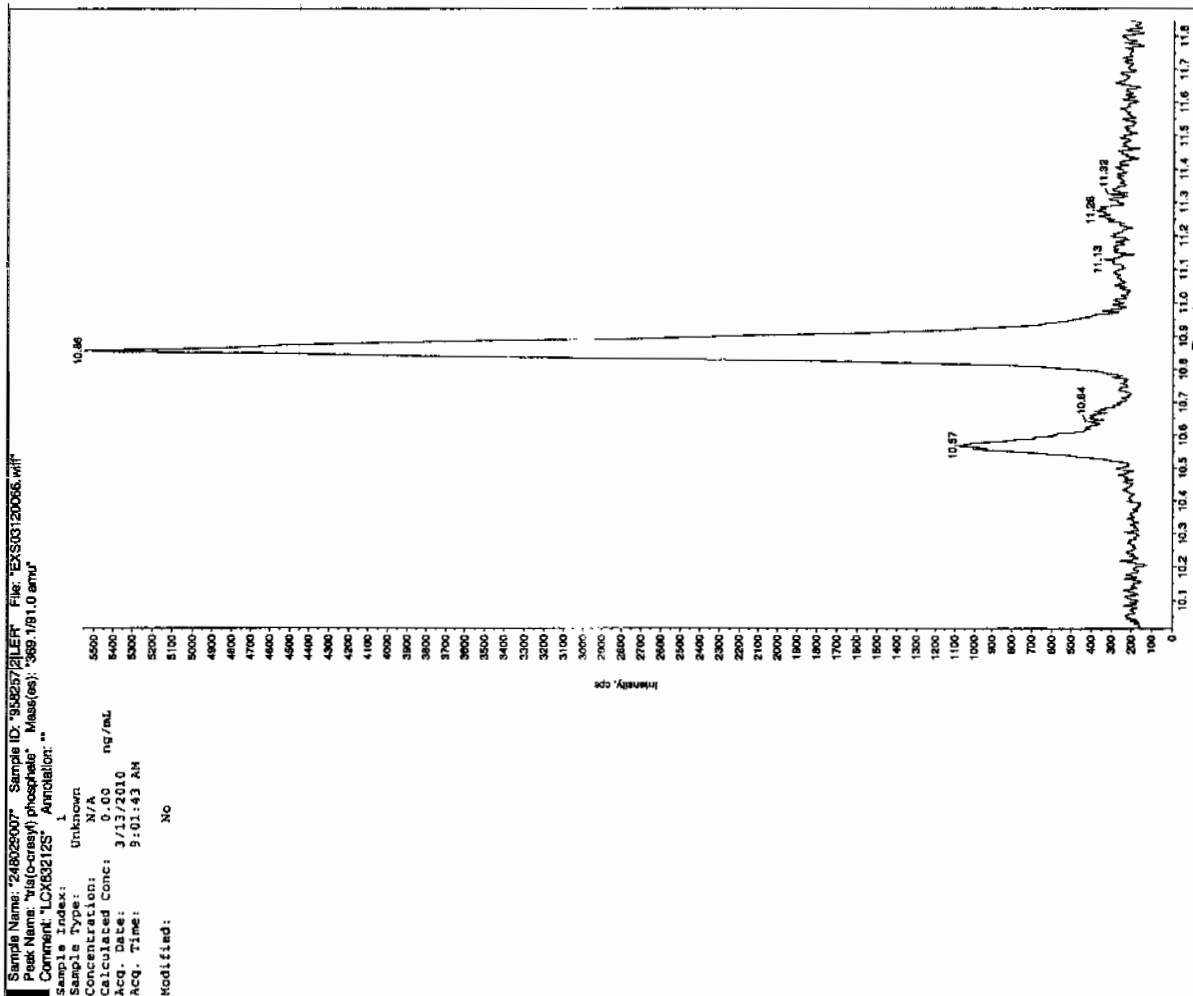
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 9:01:43 AM
 Acq. Time:
 Modified: No

Int. Type: Valley
 Retention Time: 8.34 min
 Area: 3.06e+05 counts
 Peak Height: 82330.759 cps
 Peak Width: 8.25 min
 Start Time: 8.71 min
 End Time:

Intensity, cps



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



*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: RE15-10-8032

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408142a

Date Analyzed: 11-APR-10 18:55

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408142a

Date: 11-Apr-2010

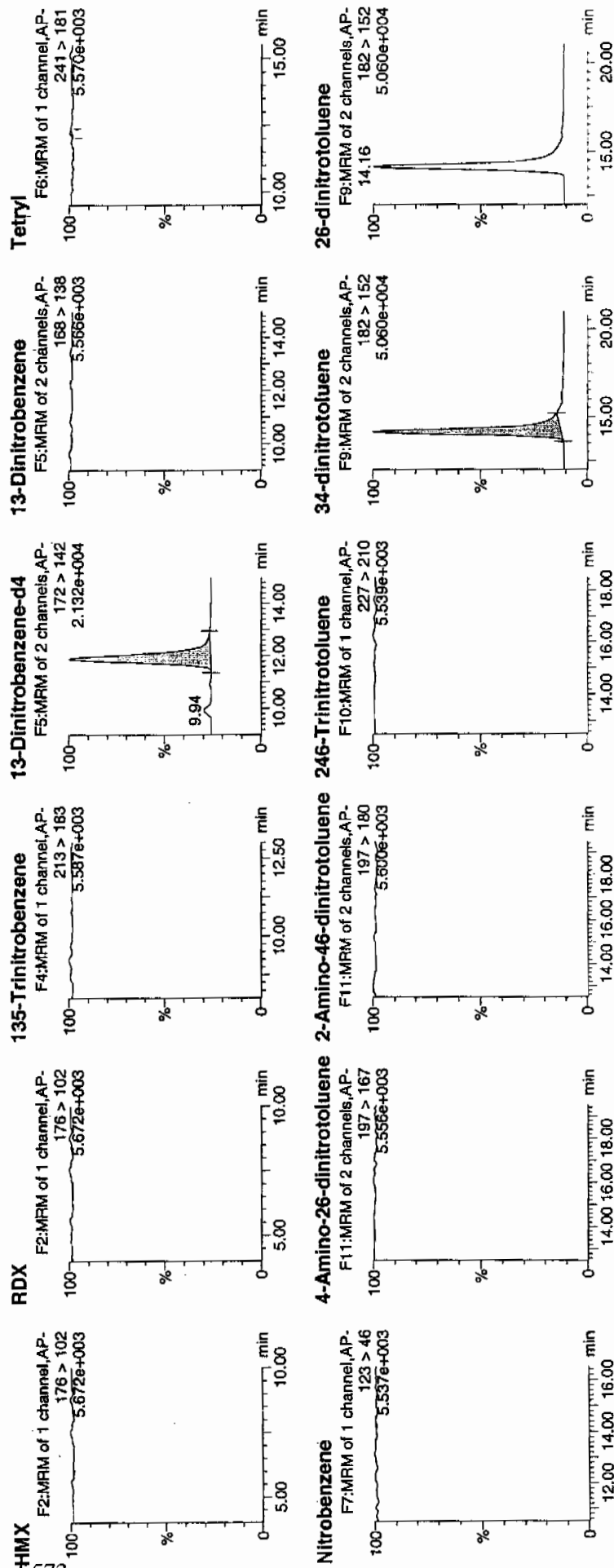
Time: 18:55:09

ID: 248029008

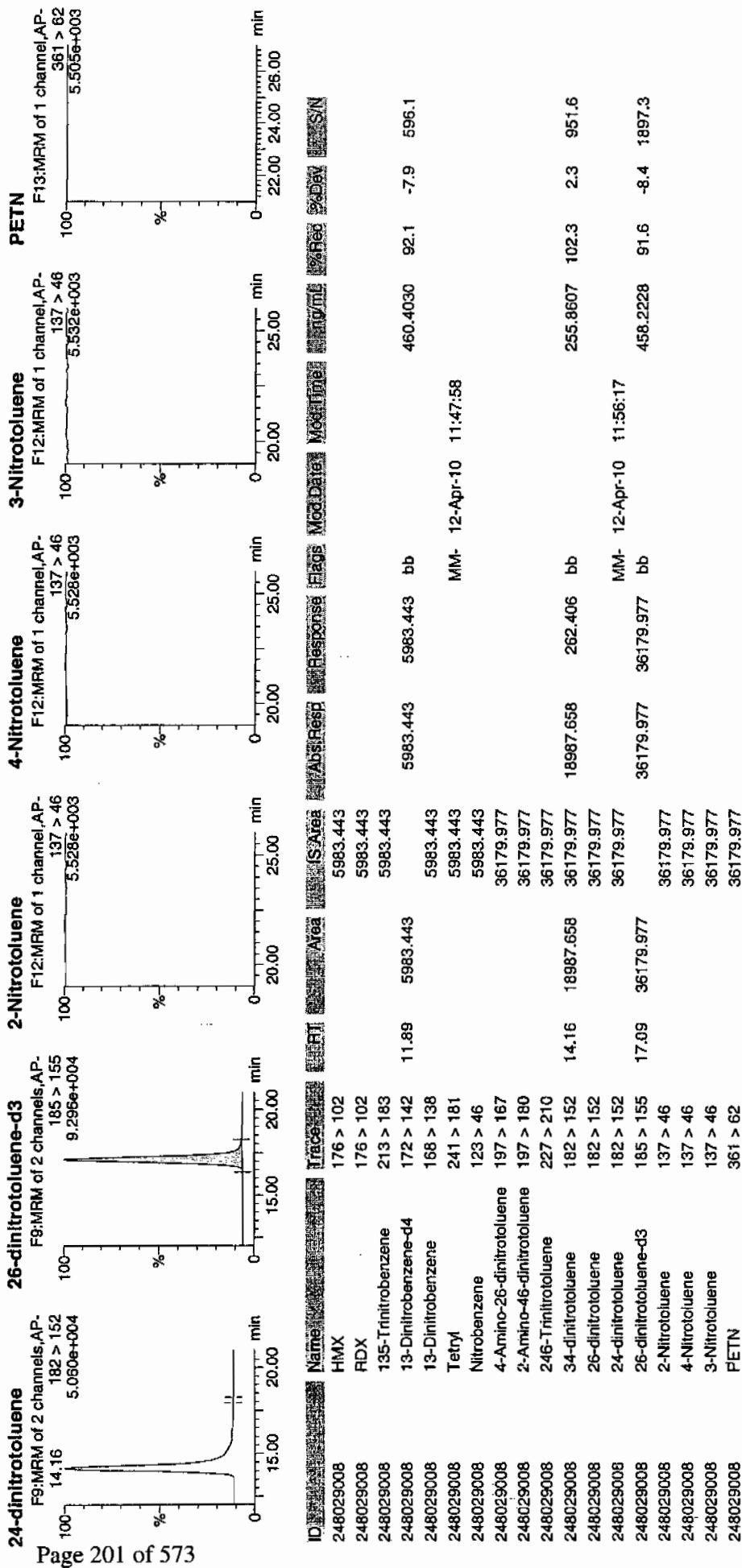
Vial: 2;3,E

4/12/10

LAUW 953257 | 80123 | 21



Amu 4/13/10



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8032

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120067.wiff

Date Analyzed: 13-MAR-10 09:17

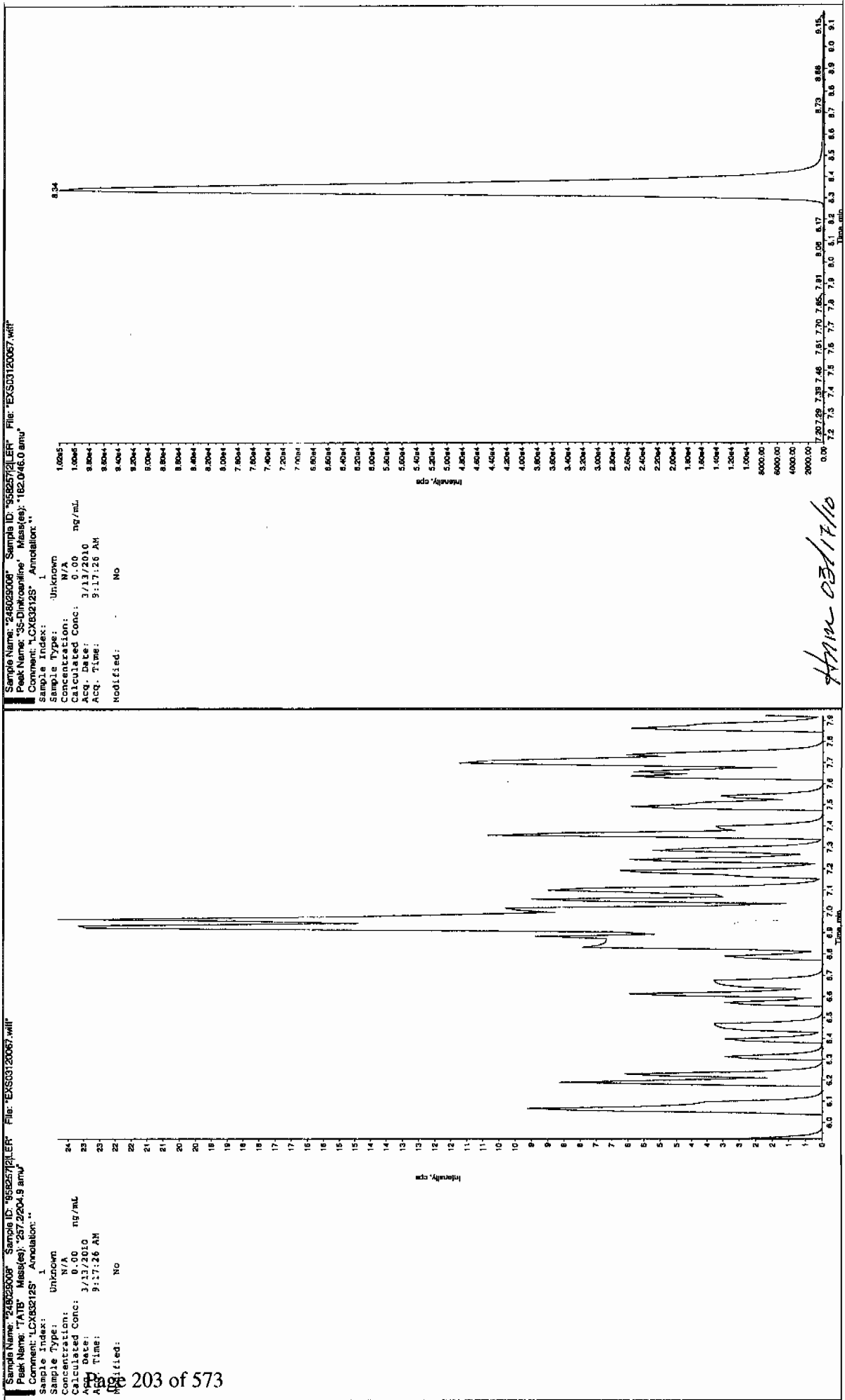
Units: ug/kg

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

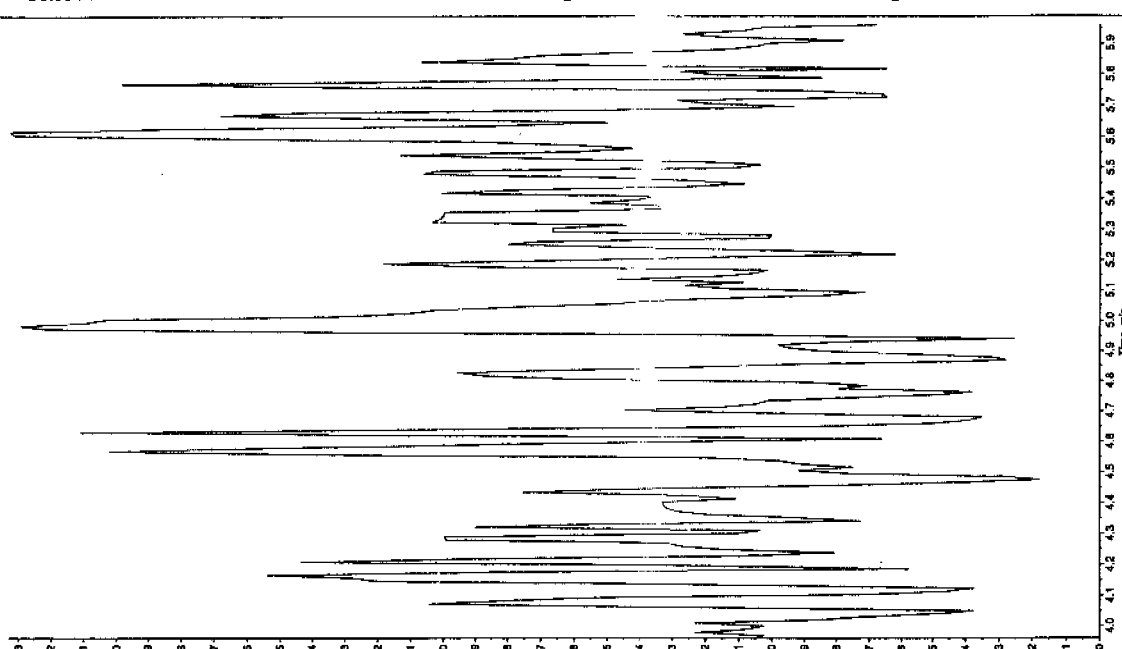
See 3/16/10



Sample Name: "24503008" Sample ID: "95825721" File: "EX503120067.wif"
 Peak Name: "25-Diamino-4-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: 3/13/2010
 Acq. Time: 9:17:26 AM
 Modified: No

Intensity, cps



Sample Name: "24503008" Sample ID: "95825721" File: "EX503120067.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 281.1 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 9:17:26 AM
 Modified: No

File: Algorithm: Interpolated - TOA

NO Peak Width: 1460.00 cps

Sampling Width: 3 points

pt Window: 15.0 sec

Selected RT: 8.33 min

Use Relative RT: No

Int Type: Valley

Retention Time: 8.34 min

Area: 3.17e+005 counts

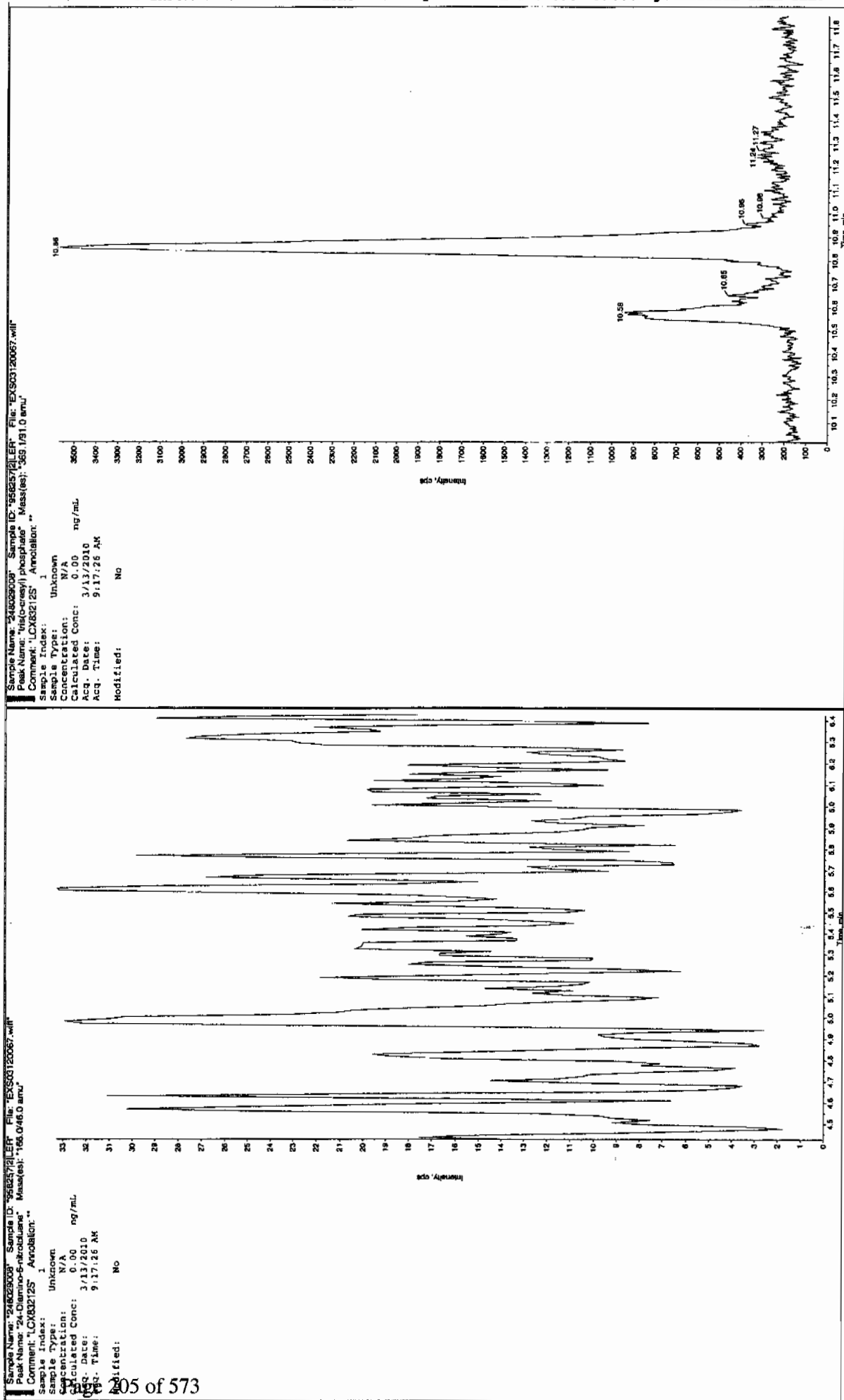
Height: 857232.788 cps

Start Time: 8.23 min

End Time: 8.48 min

Intensity, cps





*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: RE15-10-8067

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029009

Sample Amount 2

Moisture: 17.9

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408143a

Date Analyzed: 11-APR-10 19:24

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

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408143a

Date: 11-Apr-2010

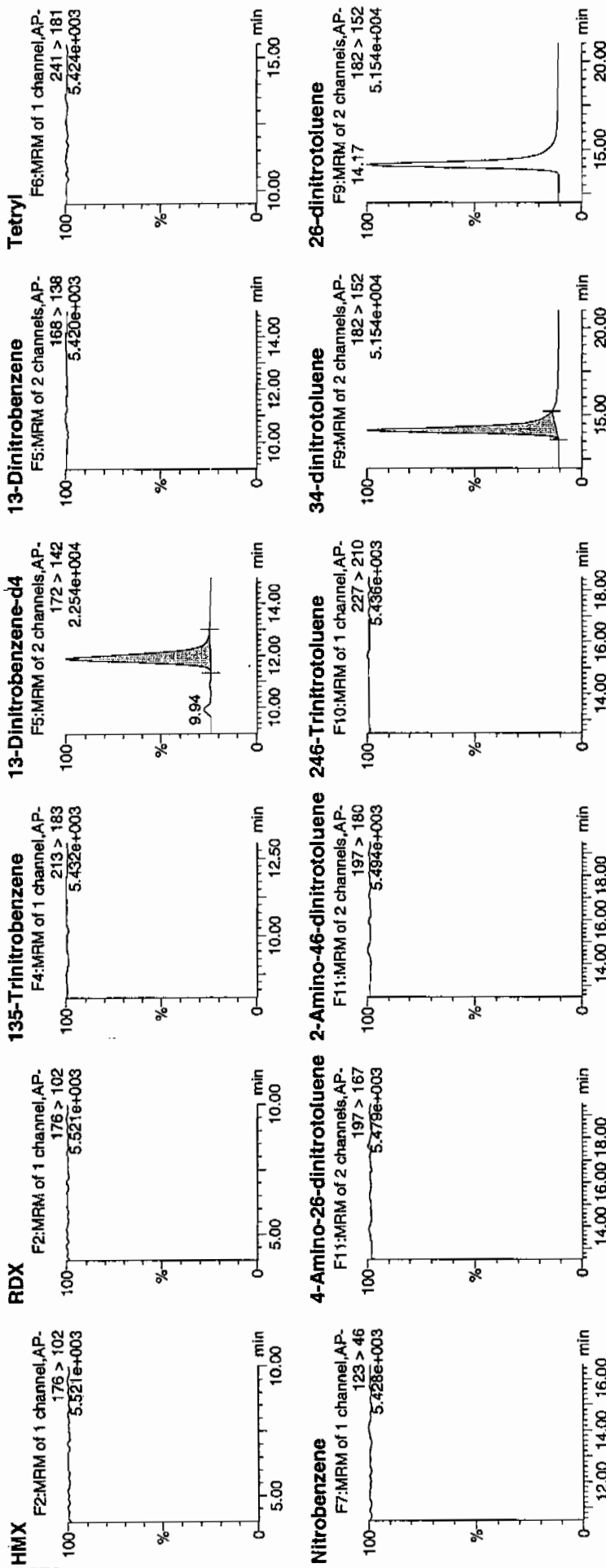
Time: 19:24:37

ID: 248029009

Vial: 2:3,F

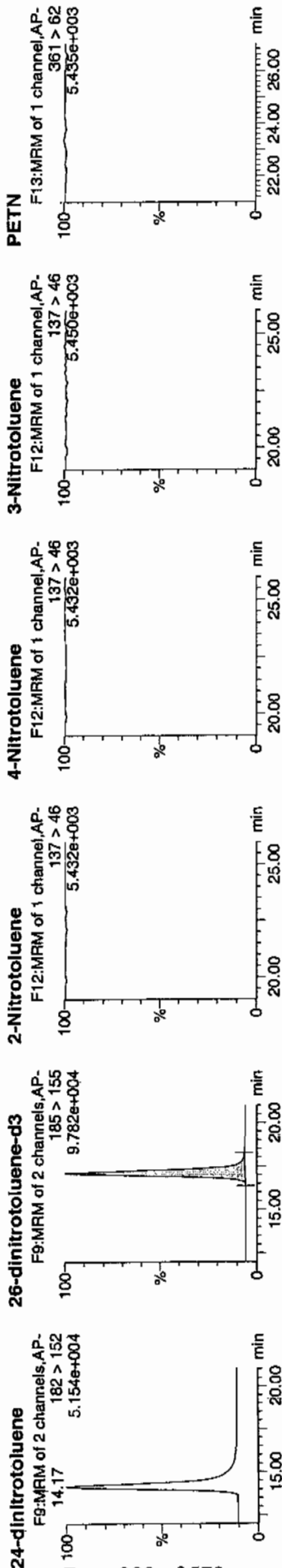
Handwritten: 11/12/10

Handwritten: 193257 / 80133 / 21



Handwritten: Anne D/H/13/10

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Mod Data	Mod Time	Mod Date	Mod User	Mod Dev	Mod SN
248029009	HMX	176 > 102		6471.611								
248029009	RDX	176 > 102		6471.611								
248029009	135-Trinitrobenzene	213 > 183		6471.611								
248029009	13-Dinitrobenzene-d4	172 > 142	11.89	6471.611		6471.611	6471.611	bb	497.9656	99.6	-0.4	752.8
248029009	13-Dinitrobenzene	168 > 138		6471.611								
248029009	Tetryl	241 > 181		6471.611								
248029009	Nitrobenzene	123 > 46		6471.611								
248029009	4-Amino-26-dinitrotoluene	197 > 167		37834.563								
248029009	2-Amino-46-dinitrotoluene	197 > 180		37834.563								
248029009	246-Trinitrotoluene	227 > 210		37834.563								
248029009	34-dinitrotoluene	182 > 152	14.17	19791.207		19791.207	261.549	bb	255.0257	102.0	2.0	710.4
248029009	26-dinitrotoluene	182 > 152		37834.563								
248029009	24-dinitrotoluene	182 > 152		37834.563								
248029009	26-dinitrotoluene-d3	185 > 155	17.09	37834.563		37834.563	37834.563	bb	479.1783	95.8	-4.2	1915.0
248029009	2-Nitrotoluene	187 > 46		37834.563								
248029009	4-Nitrotoluene	137 > 46		37834.563								
248029009	3-Nitrotoluene	137 > 46		37834.563								
248029009	PETN	361 > 62		37834.563								

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8067

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 248029009

Sample Amount 2

Moisture: 17.9

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120068.wiff

Date Analyzed: 13-MAR-10 09:33

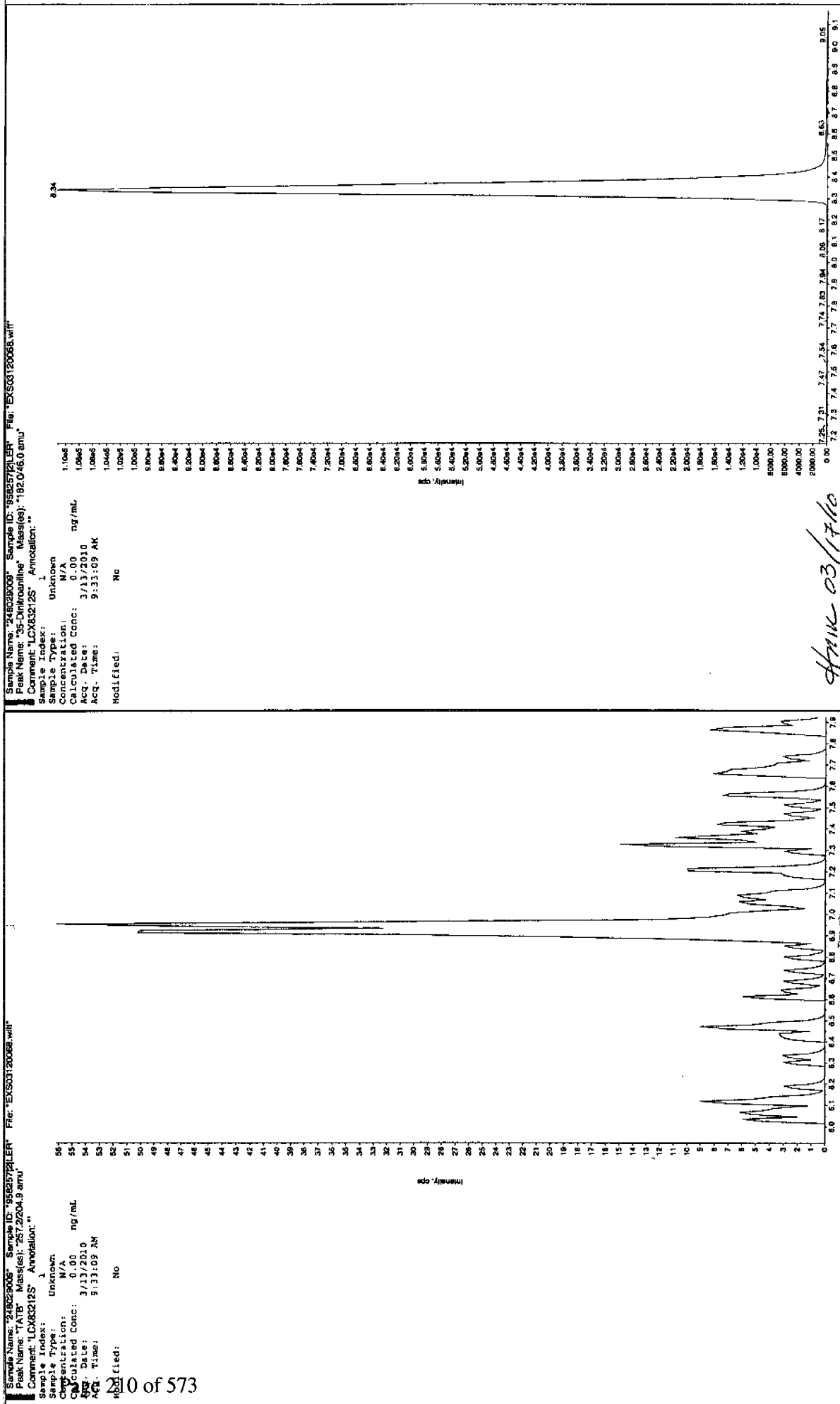
Units: ug/kg

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

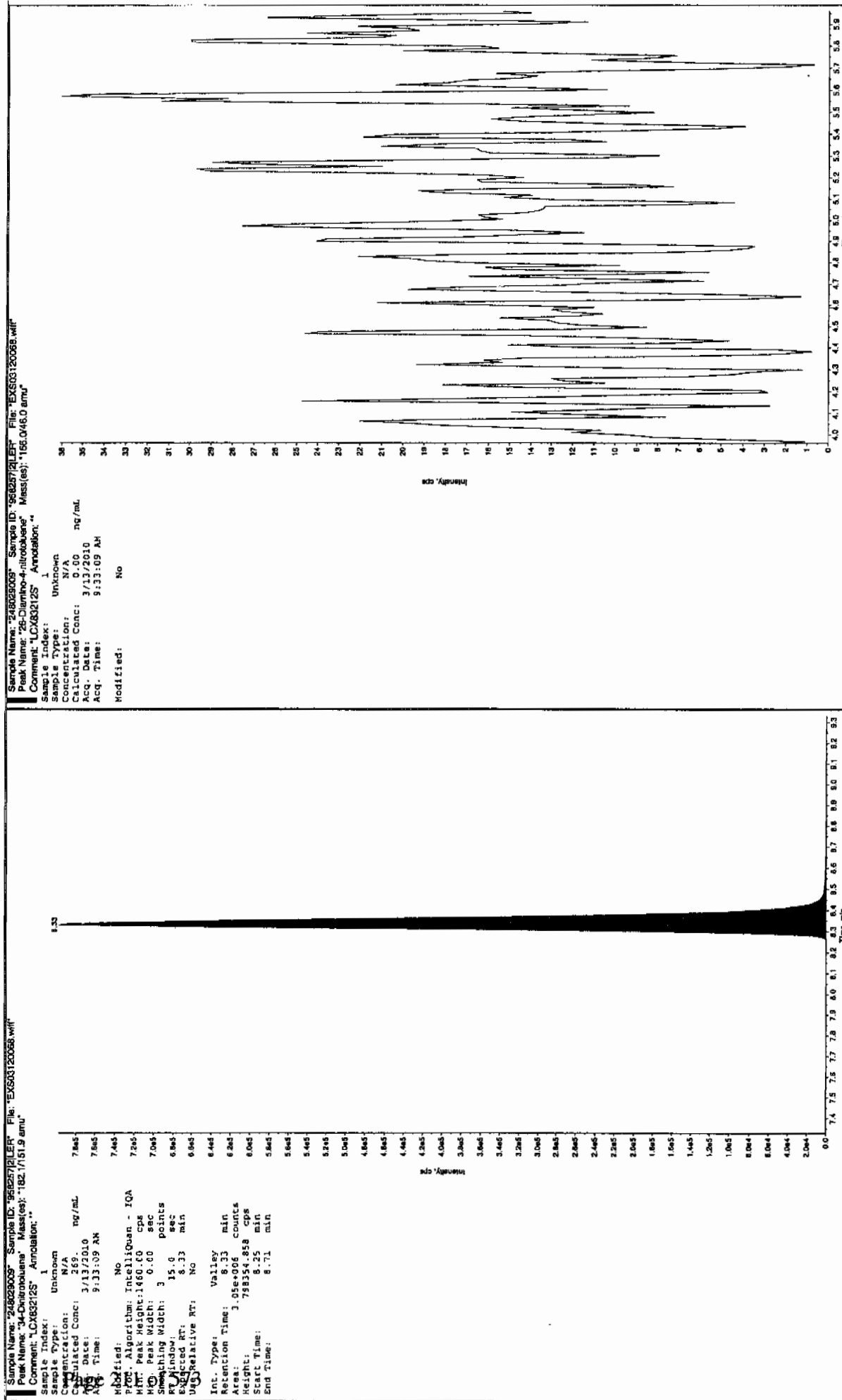
*Concentration =

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

Run 3/16/00



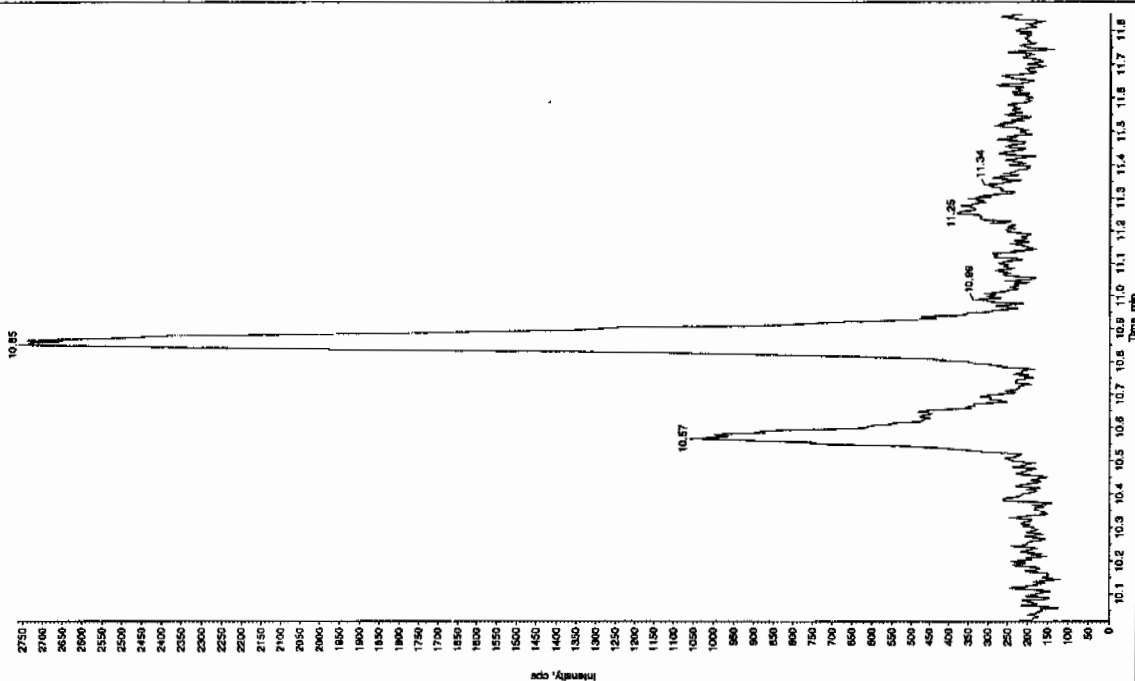
Run 03/17/00



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

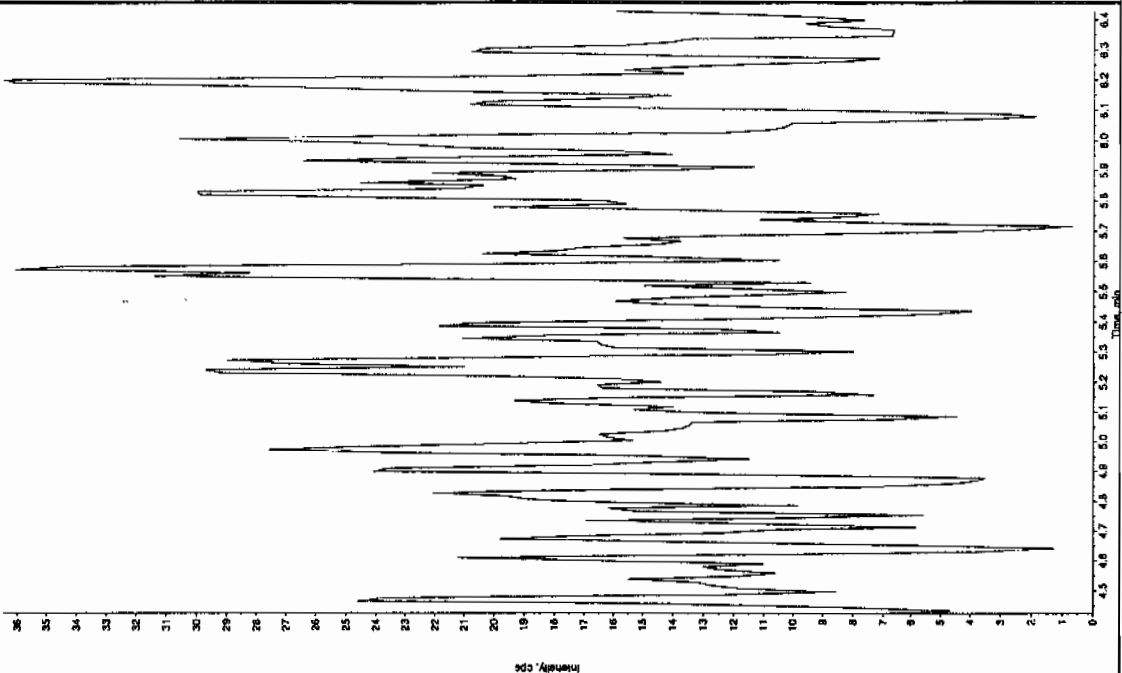
Sample Name: "24802909" Sample ID: "55525721ER" File: "EX503120088.wif"
 Peak Name: "tris(p-cresyl) phosphate" Mass(es): "368.181.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.13/2010 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 9:33:09 AM
 Modified: No



Sample Name: "24802909" Sample ID: "55525721ER" File: "EX503120088.wif"
 Peak Name: "24-Diamino-Entitodulene" Mass(es): "186.046.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 9:33:09 AM
 Modified: No



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

STANDARDS DATA

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

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

All values are ug/L without the prep factor

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

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2071

Lab Code: GEL

Run Date: 08-APR-10.09-APR-10.12-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Paramname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0408003a	EXP0408004a	EXP0408005a	EXP0408006a	EXP0408007a	EXP0408008a			
Data File:									
1,3,5-Trinitrobenzene	4.687	4.464	3.962	4.008	4.099	4.121	4.224	6.807	
1,3-Dinitrobenzene-d4	13.523	13.591	13.387	13.023	12.673	11.779	12.996	5.301	
2,4,6-Trinitrotoluene	.332	.381	.371	.383	.429	.412	0.385	8.792	
2,4-Dinitrotoluene	.302	.264	.237	.241	.272	.273	0.265	9.006	
2,6-Dinitrotoluene	1.178	1.135	1.114	1.112	1.154	1.132	1.138	2.211	
2,6-Dinitrotoluene-d3	82.492	84.272	82.213	78.859	74.94	70.968	78.957	6.49	
2-Amino-4,6-dinitrotoluene	.404	.418	.456	.474	.496	.493	0.457	8.404	
3,4-Dinitrotoluene	.965	1.047	1.023	1.004	1.066	1.048	1.026	3.585	
4-Amino-2,6-dinitrotoluene	.311	.305	.298	.303	.328	.321	0.311	3.669	
HMX	3.229	3.048	3.107	3.23	3.277	3.275	3.194	2.968	
Nitrobenzene	.708	.557	.552	.603	.597	.59	0.601	9.362	
RDX	2.156	2.344	2.394	2.481	2.636	2.61	2.437	7.364	
Tetryl	.912	1.015	.955	1.05	1.137	1.108	1.030	8.455	
m-Dinitrobenzene	1.273	1.293	1.249	1.293	1.314	1.306	1.288	1.832	
m-Nitrotoluene	.063	.061	.049	.049	.049	.057	0.055	11.935	
o-Nitrotoluene	.089	.079	.071	.074	.076	.073	0.077	8.462	
p-Nitrotoluene	.038	.043	.037	.038	.039	.038	0.039	5.09	

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

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2071

Lab Code: GEL

Run Date: 08-APR-10.09-APR-10.12-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)

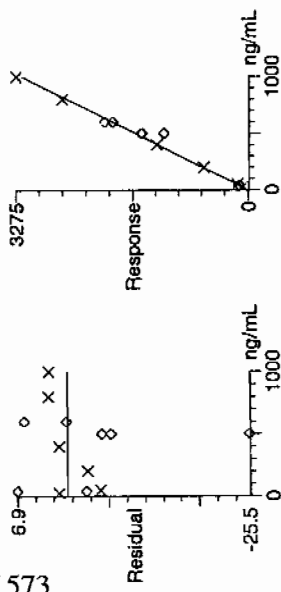
* Values outside of QC Limit

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

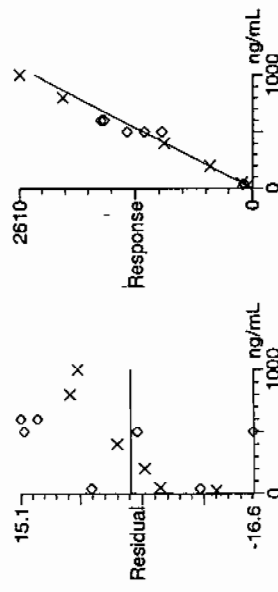
Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA.qld, Time: Fri Apr 09 10:54:52 2010

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



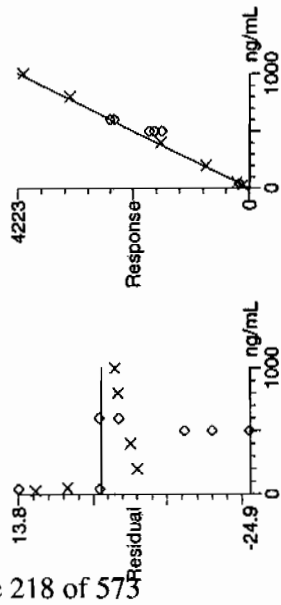
Compound name: RDX
Response Factor: 2.43687
RRF SD: 0.179446, % Relative SD: 7.36382
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



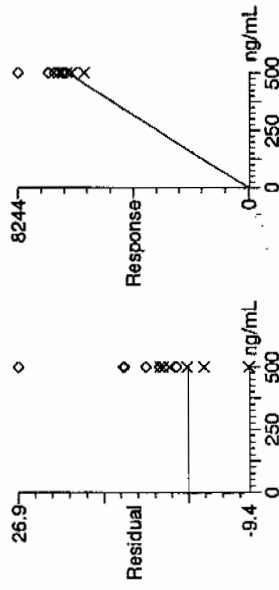
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1040810expA.qld, Time: Fri Apr 09 10:54:52 2010

Compound name: 135-Trinitrobenzene
Response Factor: 4.22335
RRF SD: 0.287497, % Relative SD: 6.80733
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



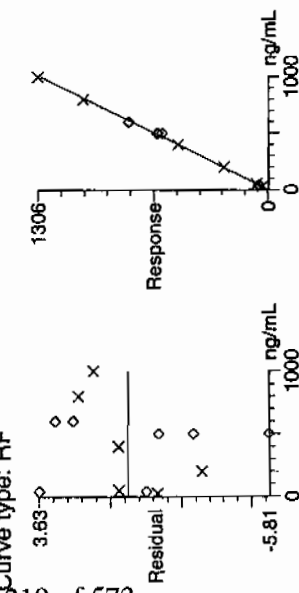
Compound name: 13-Dinitrobenzene-d4
Response Factor: 12.9961
RRF SD: 0.688911, % Relative SD: 5.30091
Response type: External Std, Area
Curve type: RF



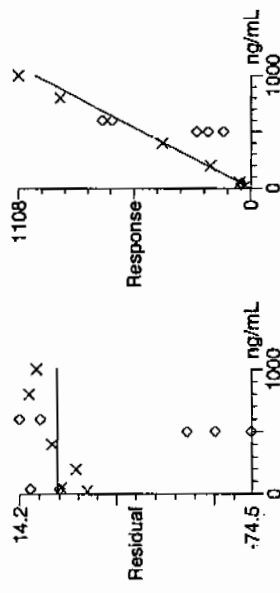
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

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

Compound name: 13-Dinitrobenzene
 Response Factor: 1.28787
 RRF SD: 0.0235993, % Relative SD: 1.83243
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



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



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

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

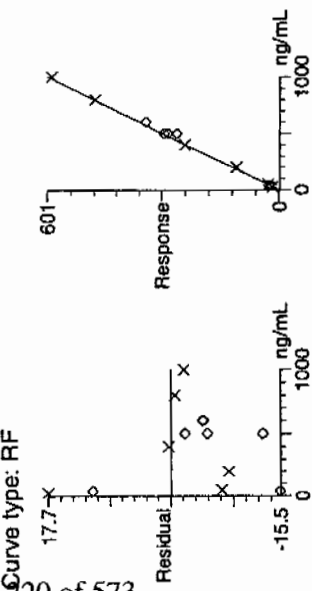
Compound name: Nitrobenzene

Response Factor: 0.601003

RRF SD: 0.0562669, % Relative SD: 9.36216

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

Curve type: RF



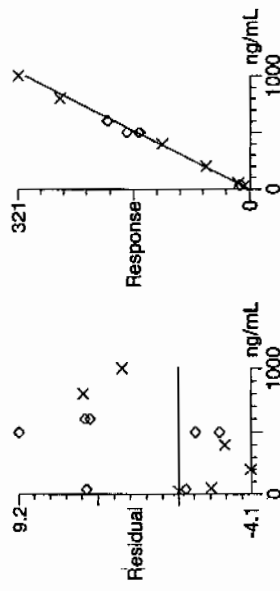
Compound name: 4-Amino-26-dinitrotoluene

Response Factor: 0.311292

RRF SD: 0.0114211, % Relative SD: 3.66892

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

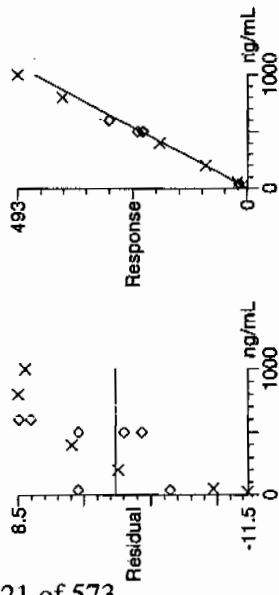
Curve type: RF



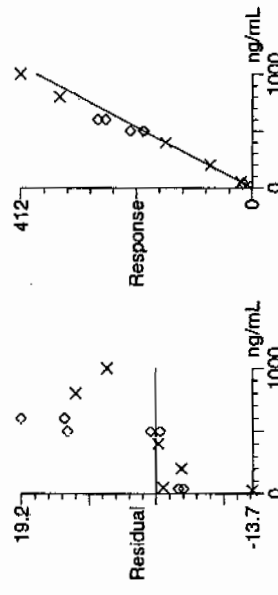
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

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

Compound name: 2-Amino-4,6-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

Printed: Fri Apr 09 10:56:07 2010, Page 6 of 9

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

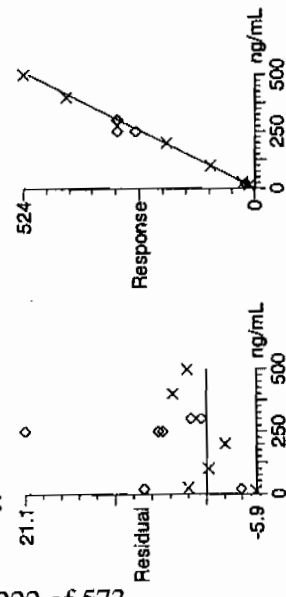
Compound name: 34-dinitrotoluene

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



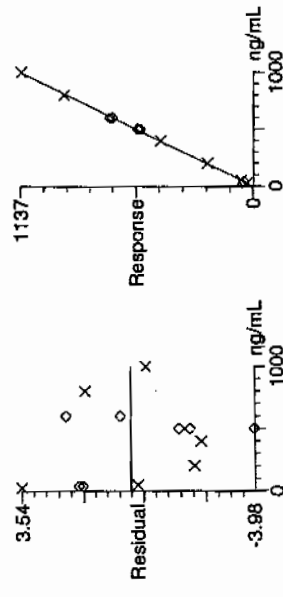
Compound name: 26-dinitrotoluene

Response Factor: 1.13734

RRF SD: 0.0251449, % Relative SD: 2.21085

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

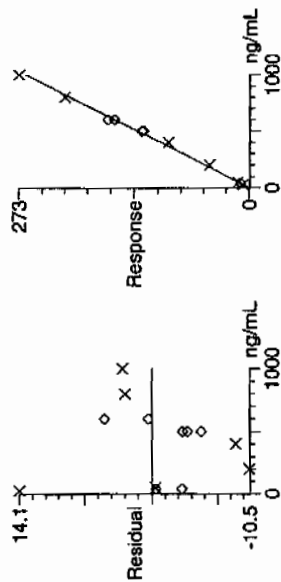
Curve type: RF



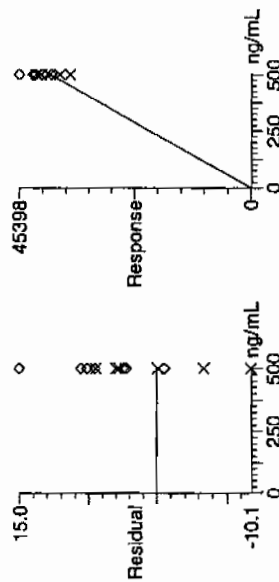
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

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



Quantify Calibration Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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

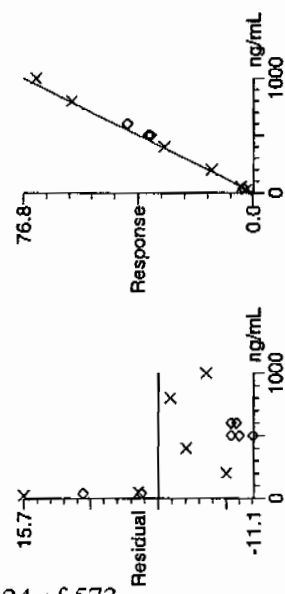
Compound name: 2-Nitrotoluene

Response Factor: 0.0767614

RRF SD: 0.00649593, % Relative SD: 8.46249

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF



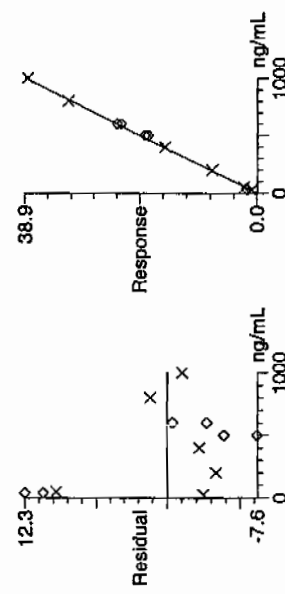
Compound name: 4-Nitrotoluene

Response Factor: 0.0388638

RRF SD: 0.00197819, % Relative SD: 5.09006

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

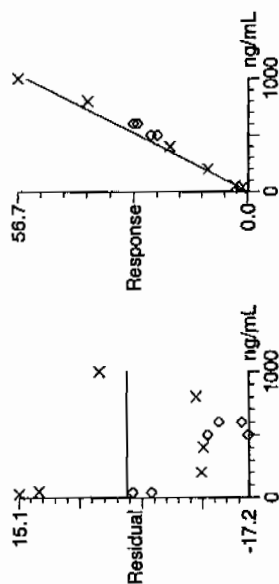
Curve type: RF



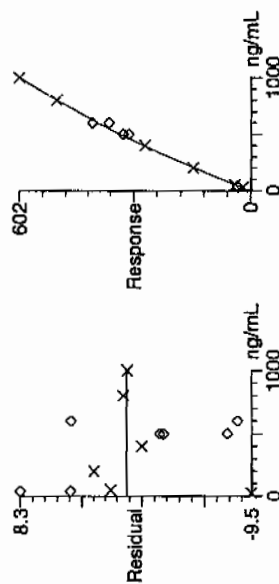
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

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

Compound name: 3-Nitrotoluene
Response Factor: 0.0545972
RRF SD: 0.00651612, % Relative SD: 11.9349
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Coefficient of Determination: 0.999915
Calibration curve: $-0.000133771 \cdot x^2 + 0.732159 \cdot x + 3.27481$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0408010a

Analysis Date: 09-APR-10 01:58

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	581.429	97	
1,3-Dinitrobenzene-d4	500	523.283	105	
2,4,6-Trinitrotoluene	600	678.465	113	
2,4-Dinitrotoluene	600	629.676	105	
2,6-Dinitrotoluene	600	612.703	102	
2,6-Dinitrotoluene-d3	500	516.716	103	
2-Amino-4,6-dinitrotoluene	600	650.562	108	
3,4-Dinitrotoluene	300	305.309	102	
4-Amino-2,6-dinitrotoluene	600	631.912	105	
HMX	600	600.63	100	
Nitrobenzene	600	573.106	96	
PETN	600	549.302	92	
RDX	600	676.458	113	
Tetryl	600	637.74	106	
m-Dinitrobenzene	600	613.434	102	
m-Nitrotoluene	600	502.386	84	
o-Nitrotoluene	600	545.024	91	
p-Nitrotoluene	600	597.413	100	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 19 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\EXP0408010a

Date: 09-Apr-2010

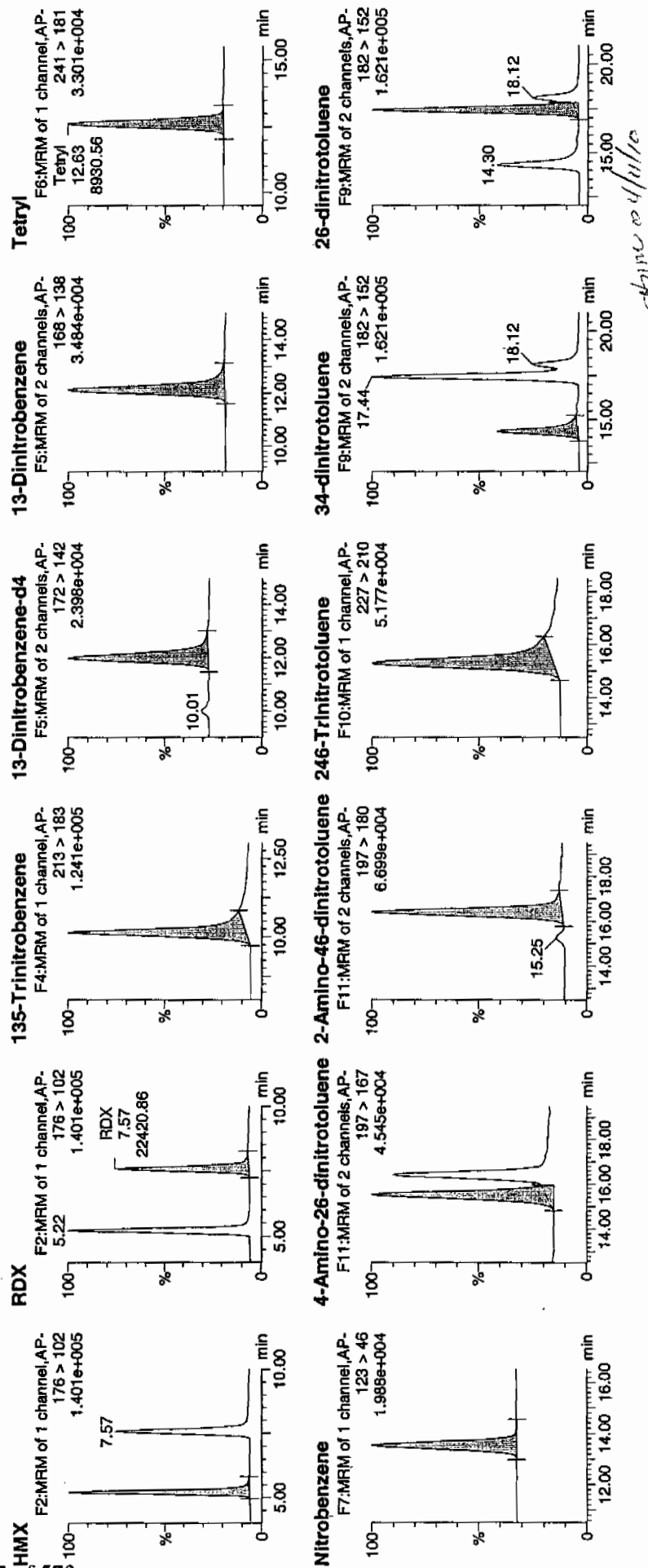
Time: 01:58:08

ID: WXX100408-071CV

Vial: 1:1,B

4/10/10

Page 227 of 573



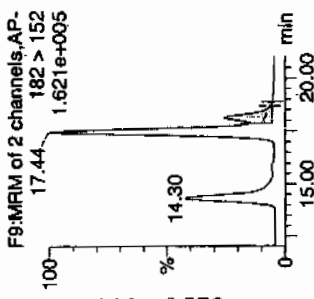
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

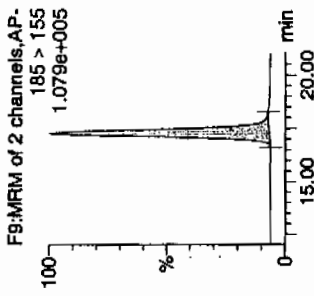
Printed: Fri Apr 09 10:56:07 2010, Page 20 of 51

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

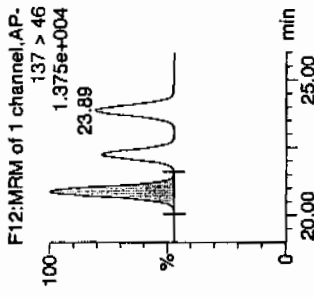
24-dinitrotoluene



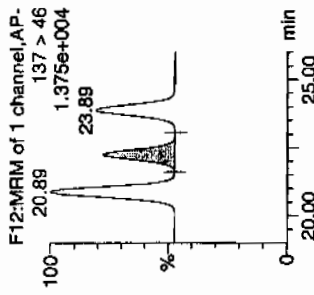
26-dinitrotoluene-d3



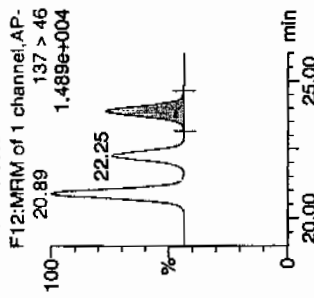
2-Nitrotoluene



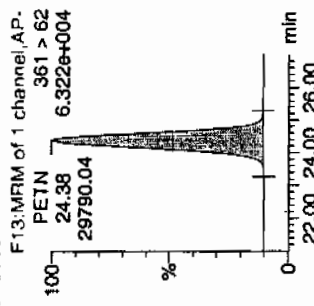
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Response	Flags	Mod Date	Mod Time	Amount	Conc	SN
WXX100408-07ICV	HMX	176 > 102	5.22	26094.779	6800.638	26094.779	1918.554	db		600.6298	100.1	0.1
WXX100408-07ICV	RDX	176 > 102	7.57	22420.859	6800.638	22420.859	1648.438	bb		676.4583	112.7	12.7
WXX100408-07ICV	135-Trinitrobenzene	213 > 183	10.14	33398.980	6800.638	33398.980	2455.577	bb		581.4289	96.9	-3.1
WXX100408-07ICV	13-Dinitrobenzene	172 > 142	11.97	6800.638	6800.638	6800.638	800.638	bb		523.2830	104.7	4.7
WXX100408-07ICV	Tetryl	168 > 138	12.63	8930.563	6800.638	8930.563	790.024	bb		613.4342	102.2	2.2
WXX100408-07ICV	Nitrobenzene	241 > 181	13.54	4684.807	6800.638	4684.807	344.439	bb		637.7400	106.3	6.3
WXX100408-07ICV	4-Amino-26-dinitrotoluene	123 > 46	13.54	16050.857	40798.398	16050.857	196.709	MM	09-Apr-10	573.1062	95.5	-4.5
WXX100408-07ICV	2-Amino-46-dinitrotoluene	197 > 167	15.53	24250.242	40798.398	24250.242	297.196	bb		631.9118	105.3	5.3
WXX100408-07ICV	246-Trinitrotoluene	197 > 180	16.41	21302.396	40798.398	21302.396	261.069	bb		650.5618	108.4	8.4
WXX100408-07ICV	34-dinitrotoluene	227 > 210	15.31	25549.520	40798.398	25549.520	313.119	bb		678.4651	113.1	13.1
WXX100408-07ICV	26-dinitrotoluene	182 > 152	14.30	56860.898	40798.398	56860.898	696.852	MM	09-Apr-10	305.3093	101.8	1.8
WXX100408-07ICV	24-dinitrotoluene	182 > 152	17.44	13601.919	40798.398	13601.919	166.697	MM	09-Apr-10	612.7030	102.1	2.1
WXX100408-07ICV	26-dinitrotoluene-d3	185 > 155	18.12	40798.398	40798.398	40798.398	40798.398	bb	09-Apr-10	629.6758	104.9	4.9
WXX100408-07ICV	2-Nitrotoluene	137 > 46	17.29	3413.753	40798.398	3413.753	41.837	bb		516.7156	103.3	3.3
WXX100408-07ICV	4-Nitrotoluene	137 > 46	20.89	1894.492	40798.398	1894.492	23.218	bb		545.0244	90.8	-9.2
WXX100408-07ICV	3-Nitrotoluene	137 > 46	22.26	2238.110	40798.398	2238.110	27.429	bb		597.4125	99.6	-0.4
WXX100408-07ICV	PETN	361 > 62	23.89	29790.043	40798.398	29790.043	365.088	bb		502.3861	83.7	-16.3
			24.38							549.3025	91.6	-8.4

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

mtt
4/10/10

Total 1615.0

Average 100.9

Time 04/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2071

Lab Code: GEL

Run Date: 08-APR-10.09-APR-10.12-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 832LA Modified

HPLC Column: YMC.J-Sphere ODS-H8O

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03120003.wif	EXS03120004.wif	EXS03120005.wif	EXS03120006.wif	EXS03120007.wif	EXS03120008.wif	EXS03120009.wif					
Parname:												
2,4-Diamino-6-nitrotoluene	54300	113000	272000	566000	848000	1090000	2190000	454	1120	-0.11	.9999	
2,6-Diamino-4-nitrotoluene	78700	163000	391000	793000	1180000	1630000	3070000	-13200	1670	-0.065	.9998	
3,4-Dinitrotoluene	287000	547000	1380000	2710000	4010000	5290000	10200000	-21400	11800	-1.65	.9987	
3,5-Dinitroaniline	414000	796000	2000000	3840000	5590000	7400000	12900000	-12700	8210	-0.881	.9999	
TATB	63200	132000	333000	708000	1070000	1440000	3010000	-9240	1390	.061	1	
tris(o-cresyl) phosphate	631000	1250000	2970000	5860000	8340000	10700000	19000000	63900	12000	-1.26	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

031210ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-9.24e+003			
a1	1.39e+003			
a2	0.0609			
Correlation coefficient 1.0000				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.27e+004			
a1	8.21e+003			
a2	-0.881			
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	-2.14e+004			
a1	1.18e+004			
a2	-1.65			
Correlation coefficient 0.9987				
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	-1.32e+004			
a1	1.67e+003			
a2	-0.065			
Correlation coefficient 0.9998				
Use Area				

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

Plan 3/16/10

03/17/10

031210ICAL

Iterate No

None

Weighting

Quadratic
454

Fit
a0

a1 1.12e+003

a2 -0.011

Correlation coefficient 0.9999
Use Area

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Iterate No

None

Weighting

Quadratic
6.39e+004

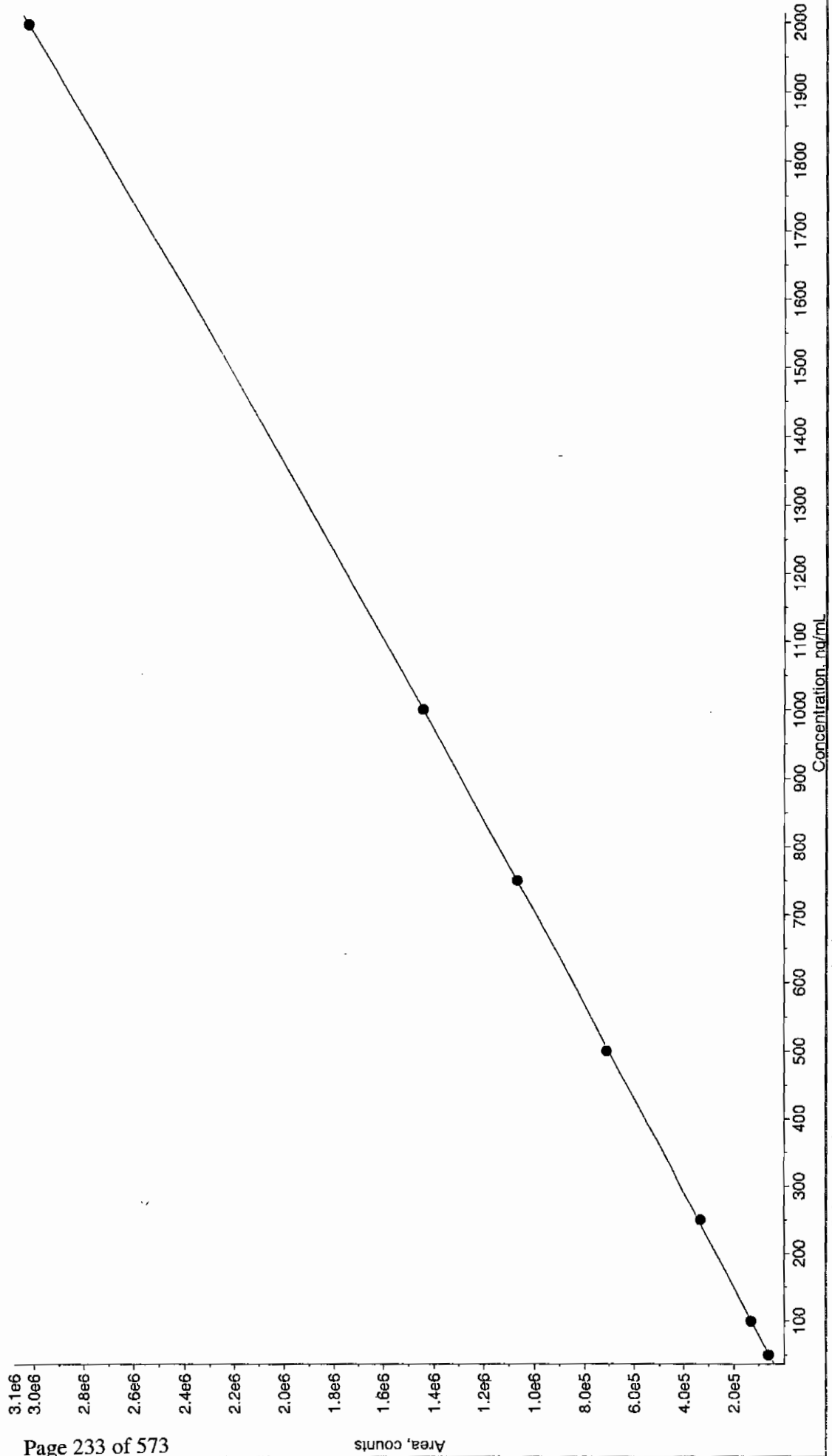
Fit
a0

a1 1.2e+004

a2 -1.26

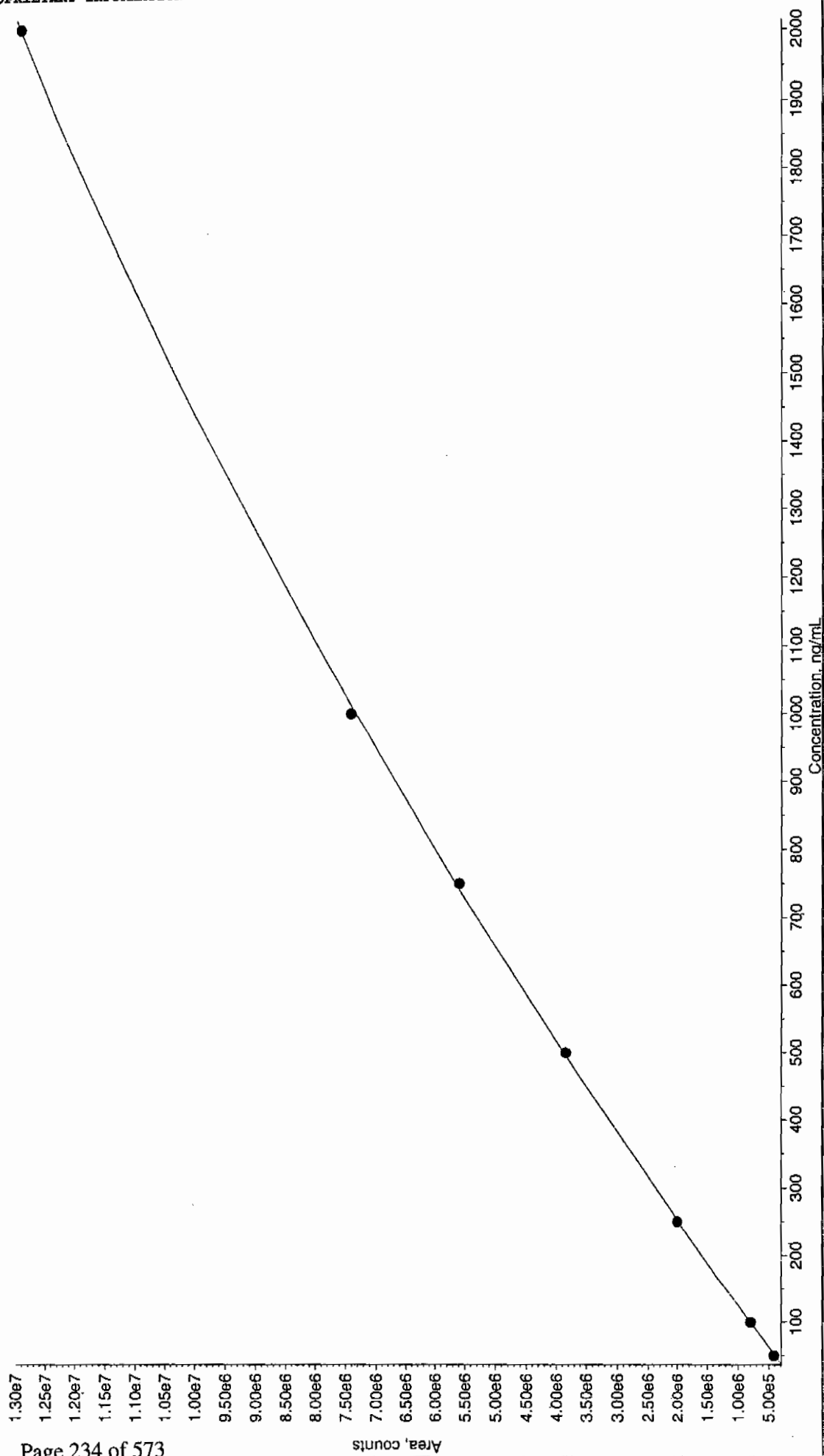
Correlation coefficient 1.0000
Use Area

031210.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0609 x^2 + 1.39e+003 x + -9.24e+003$ ($r = 1.0000$)

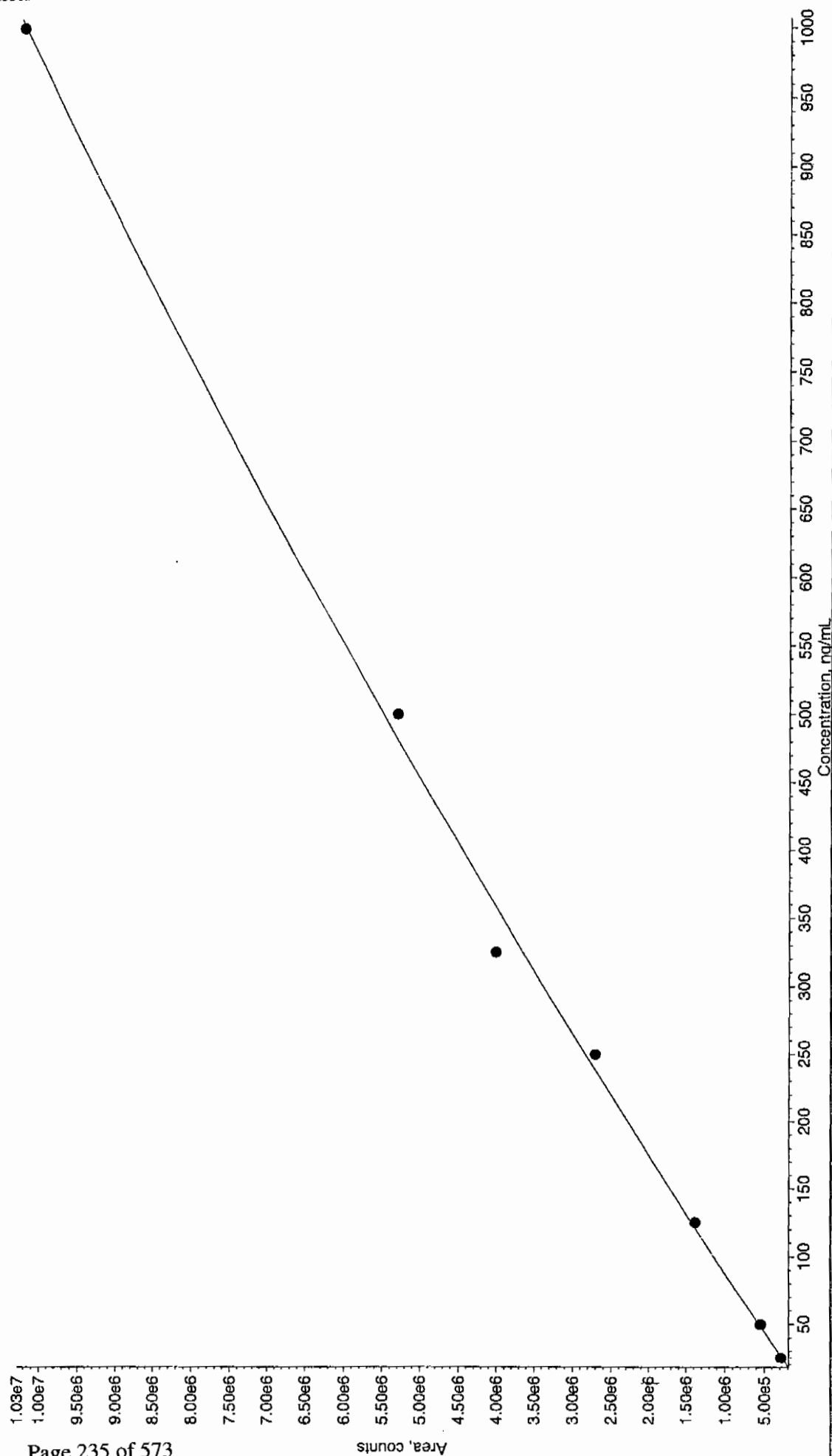


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

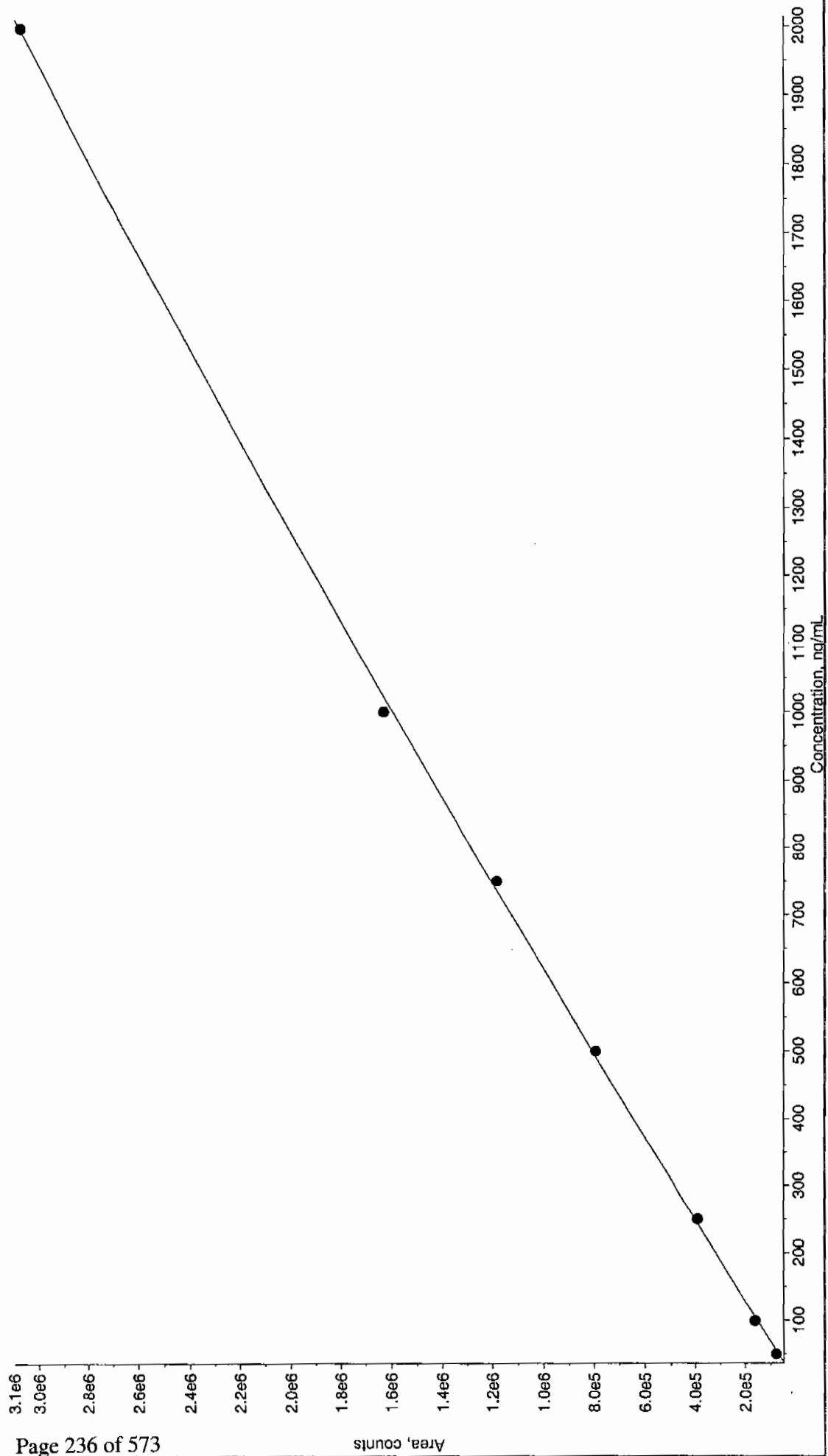
031210.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.881 x^2 + 8.21e+003 x + -1.27e+004$ ($r = 0.9999$)



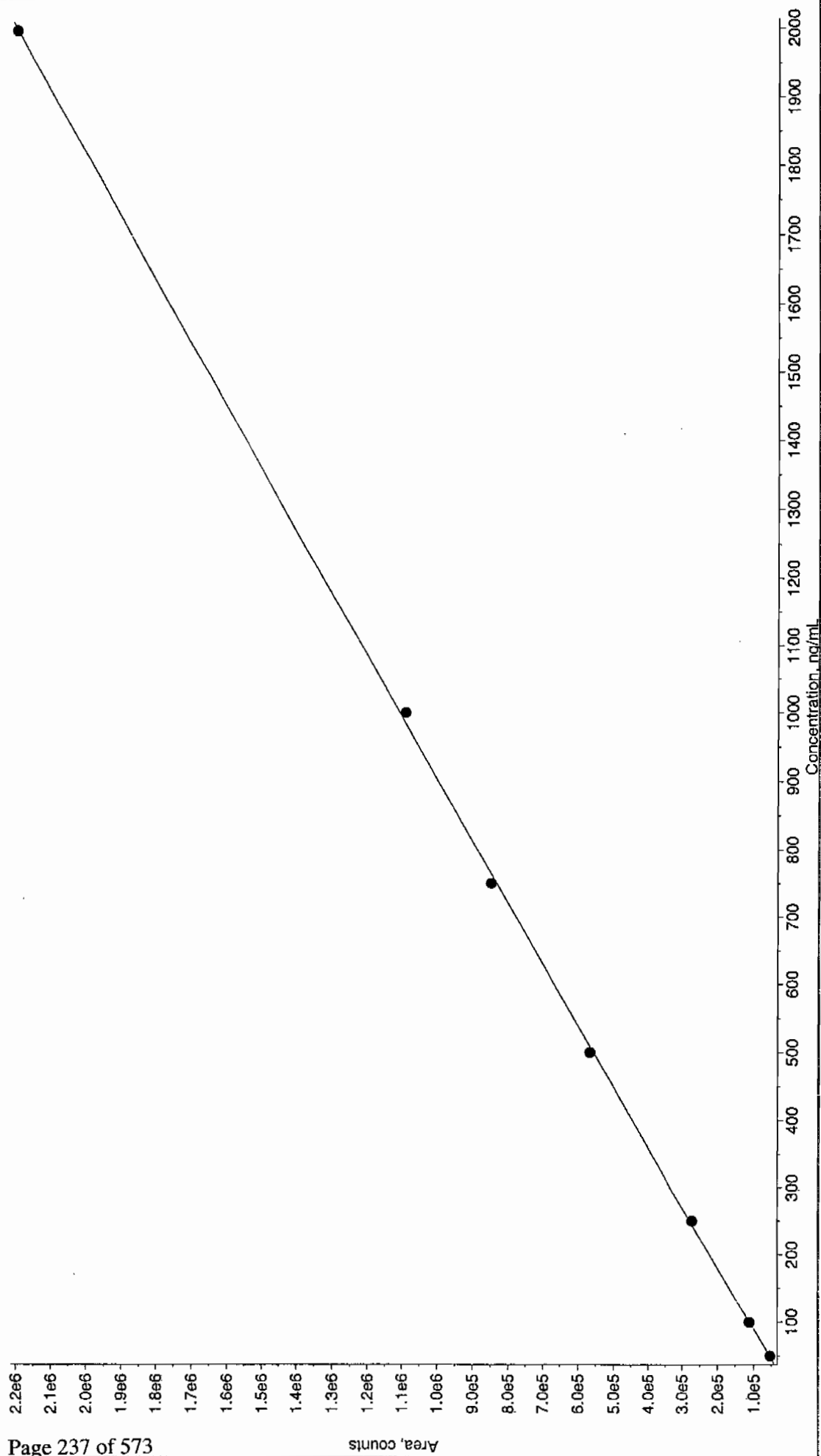
031210.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -1.65 \times 10^{-4} x^2 + 1.18 \times 10^{-4} x + -2.14 \times 10^{-4}$ ($r = 0.9987$)



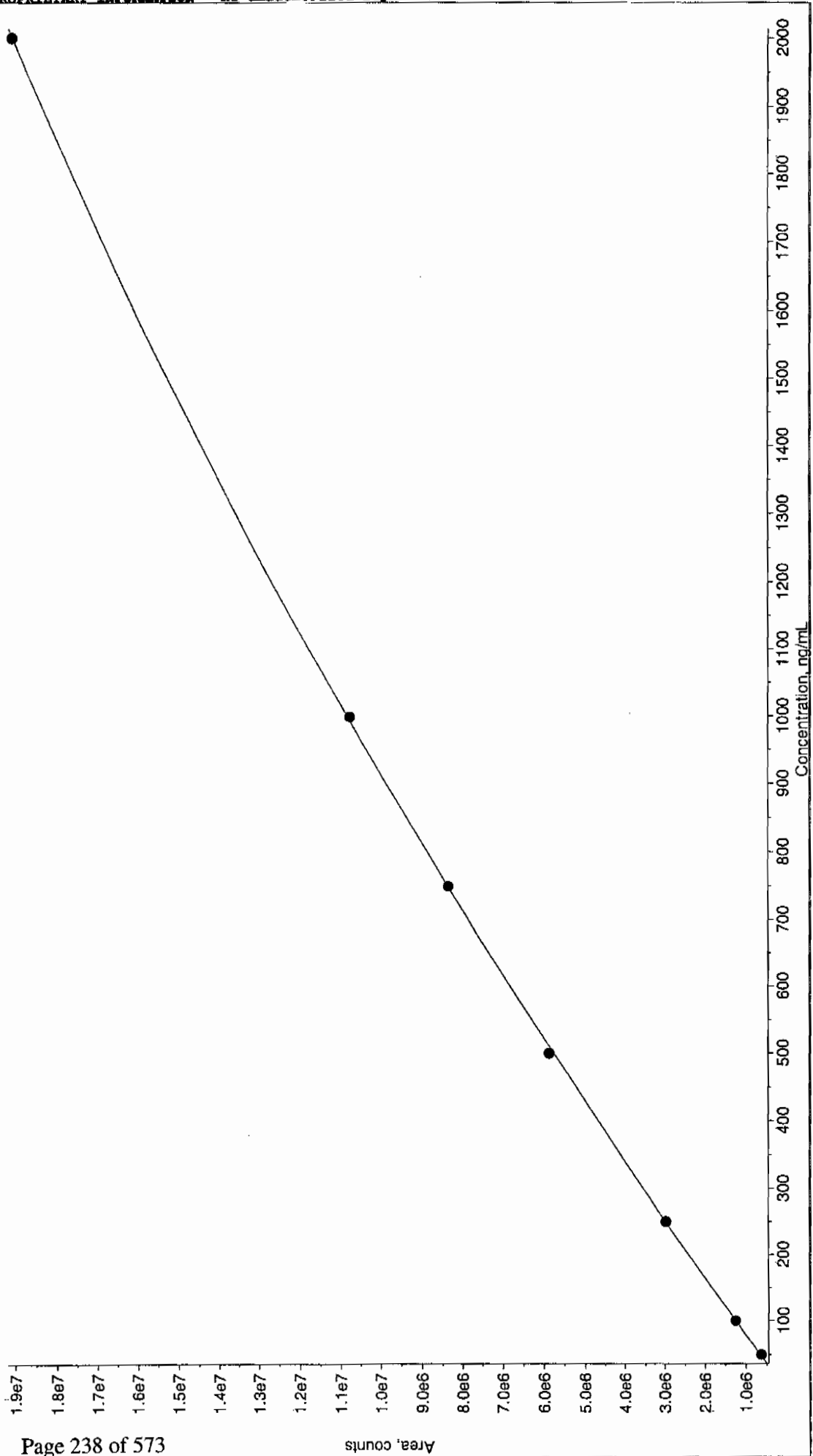
031210.rdb (26-Diamino-4-nitrotoluene): "No" weighting): $y = -0.065 x^2 + 1.67e+003 x + -1.32e+004$ ($r = 0.9998$)



031210.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.011 x^2 + 1.12e+003 x + 454$ ($r = 0.9999$)



031210.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -1.26 x^2 + 1.2e+004 x + 6.39e+004$ ($r = 1.0000$)



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03120011.wiff

Analysis Date: 12-MAR-10 18:37

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	529	106	
2,6-Diamino-4-nitrotoluene	500	520	104	
3,4-Dinitrotoluene	250	239	96	
3,5-Dinitroaniline	500	511	102	
TATB	500	529	106	
tris(o-cresyl) phosphate	500	510	102	

Recovery Limits:

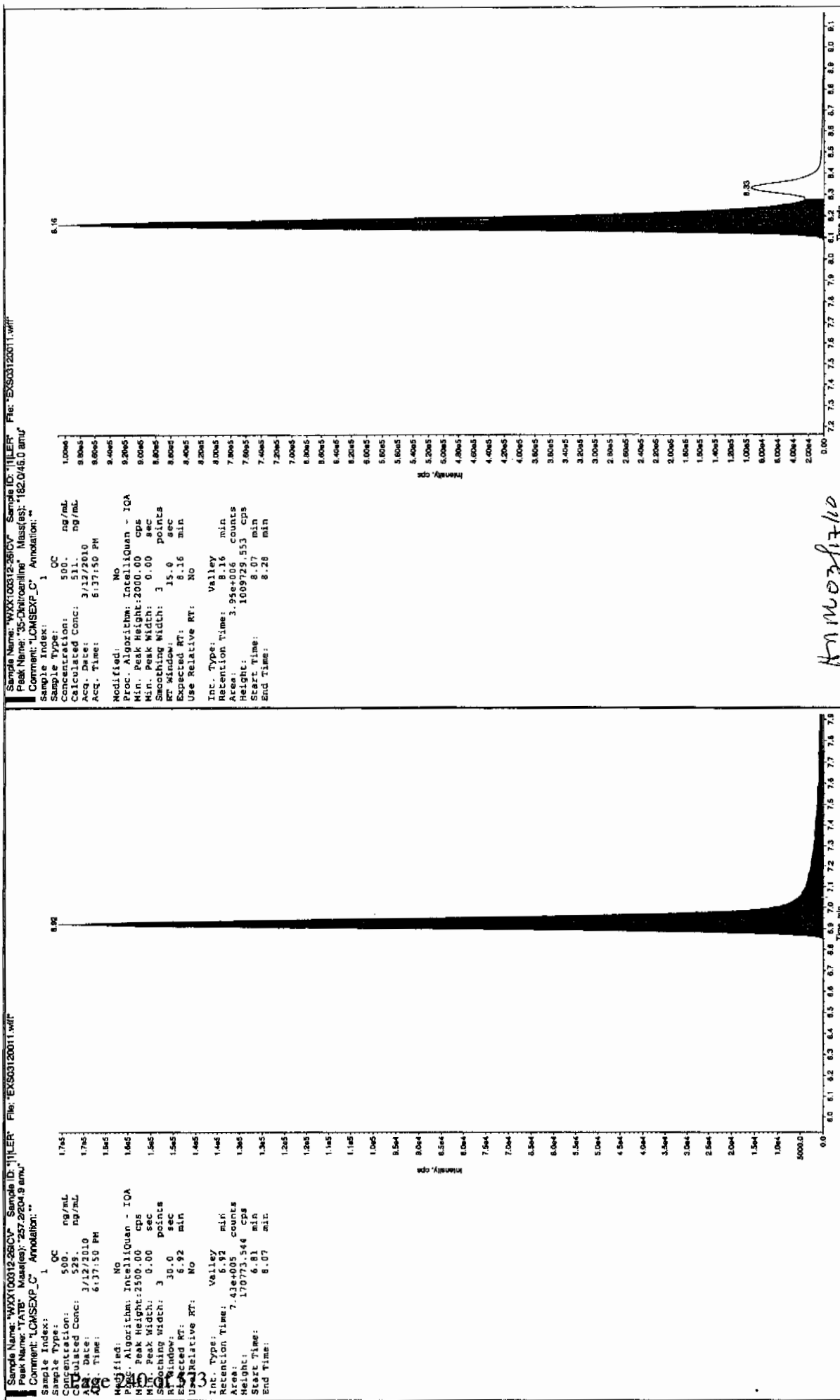
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

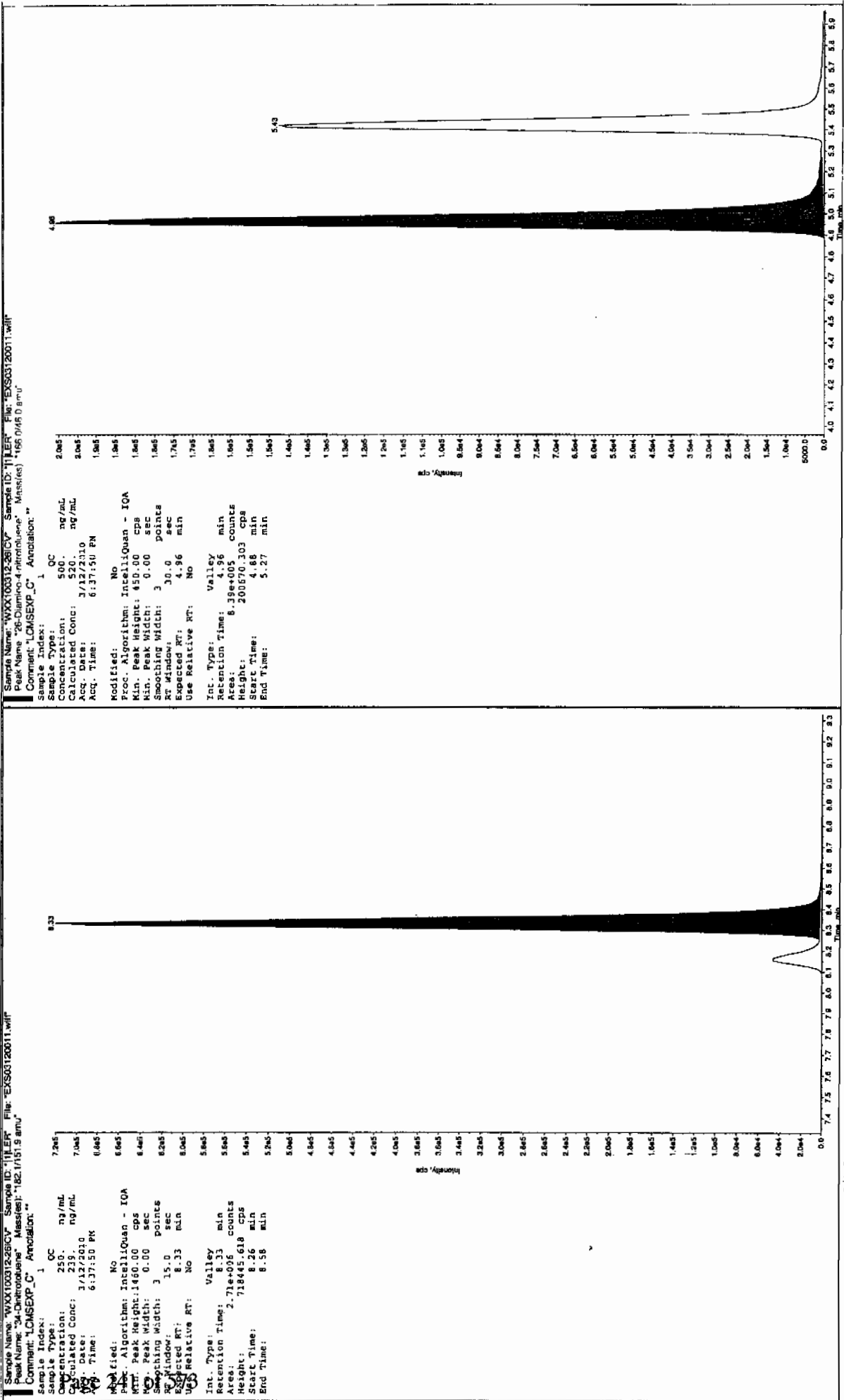
Other Target Analytes 80-120%

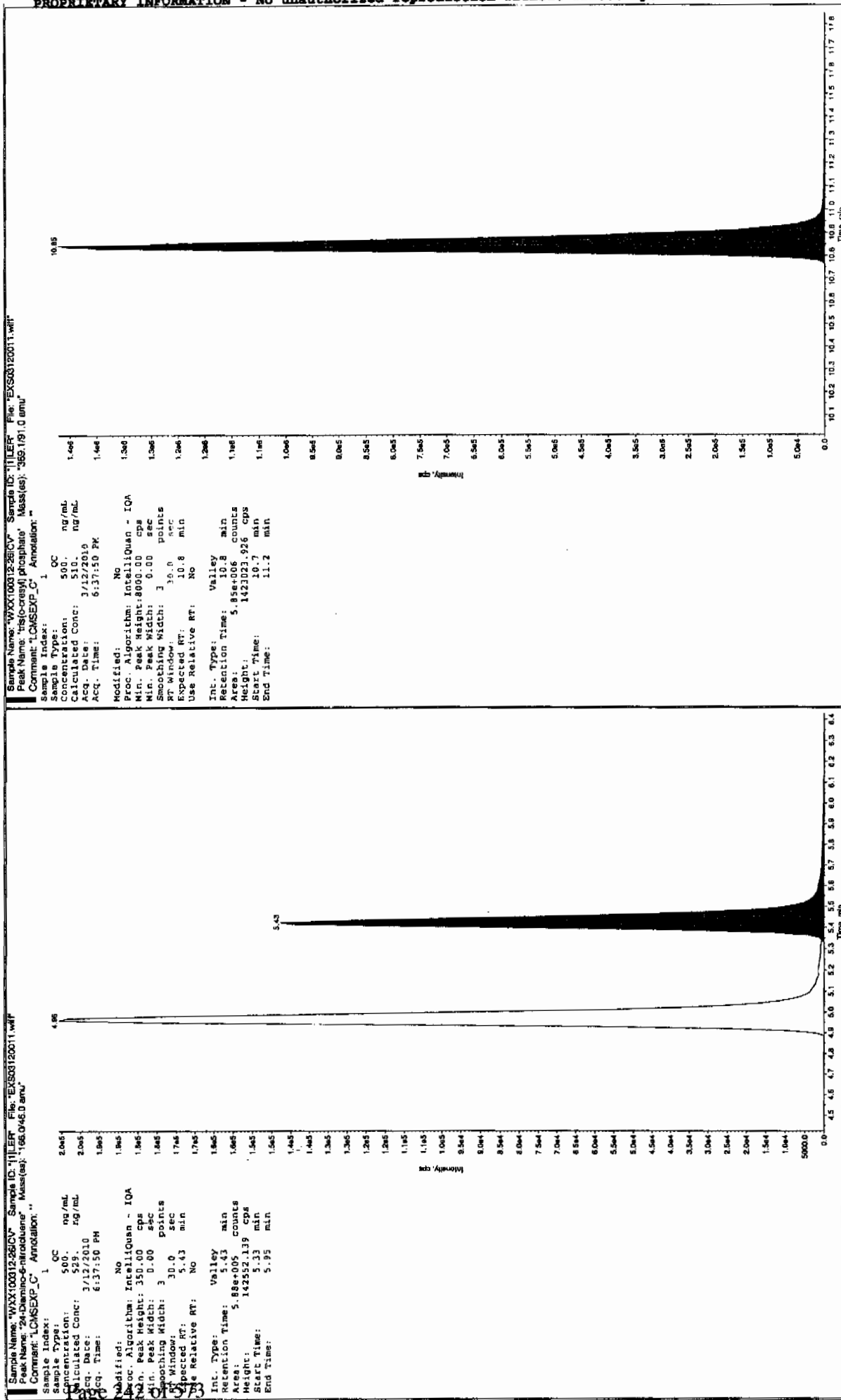
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31/6/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

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
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	
m-Nitrotoluene	40	38.638	97	

Recovery Limits:

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

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

573

HMx

RDX

135-Trinitrobenzene

13-Dinitrobenzene-d4

Tetryl

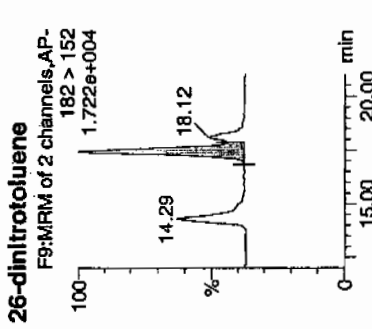
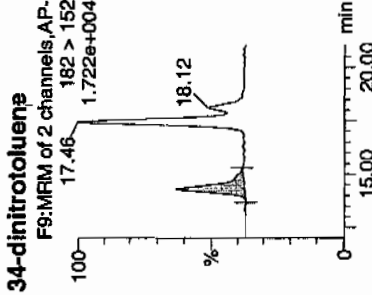
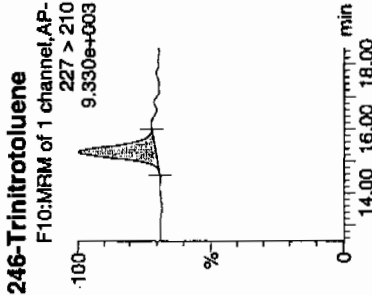
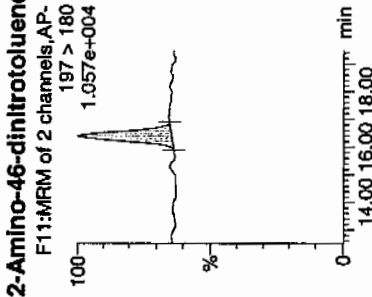
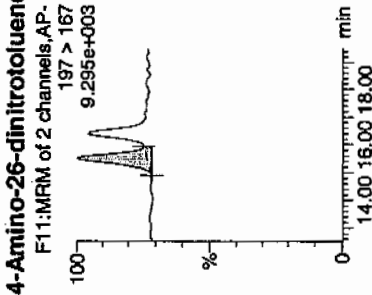
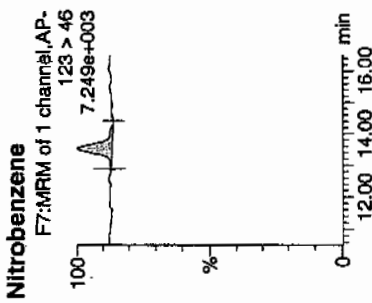
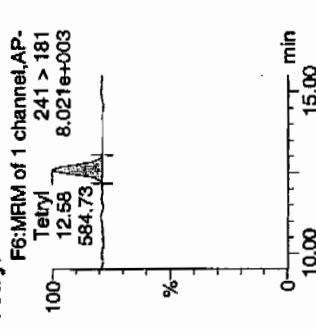
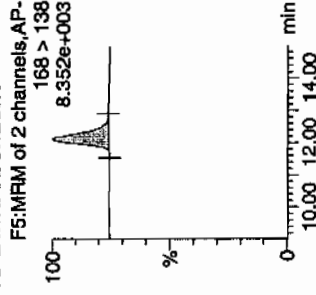
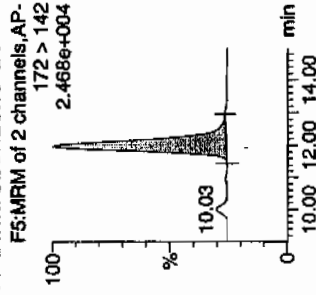
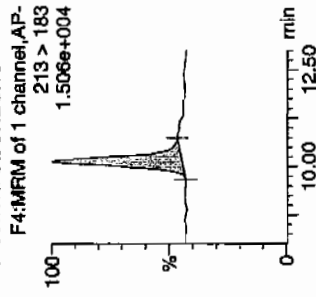
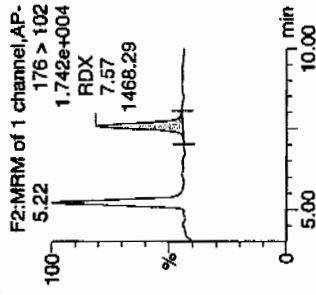
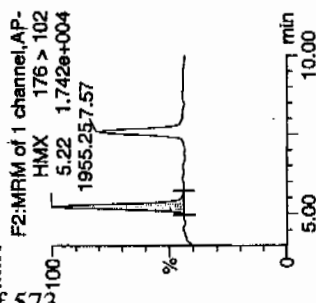
26-dinitrotoluene

34-dinitrotoluene

246-Trinitrotoluene

4-Amino-26-dinitrotoluene

Nitrobenzene



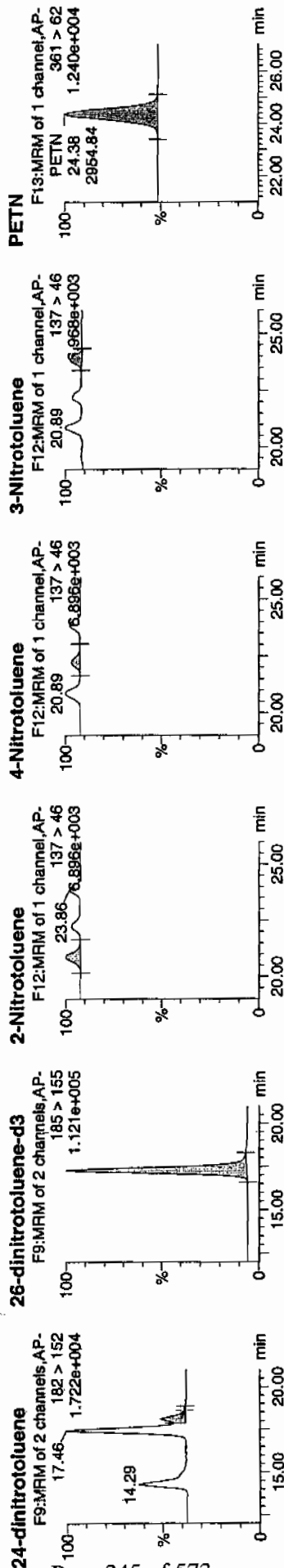
4/9/10
04/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 24 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	Mod Rec	Mod Dev	SN
WXX100408-08CRI	HMZ	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	1488.288	7155.368	1468.288	102.600	bb	42.1035	105.3	5.3	134.3	
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.13	2425.125	7155.368	2425.125	169.462	bb	40.1250	100.3	0.3	134.0	
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	11.97	7155.368	7155.368	7155.368	7155.368	bb	550.5781	110.1	10.1	503.1	
WXX100408-08CRI	13-Dinitrobenzene	169 > 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		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		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		36.8	
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.29	42512.996	42512.996	42512.996	42512.996	bb	538.4311	107.7	7.7	2811.2	
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.89	266.200	42512.996	266.200	3.131	bb	40.7862	102.0	2.0	57.8	
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.23	148.485	42512.996	148.485	1.746	bb	44.9351	112.3	12.3	33.1	
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.86	179.365	42512.996	179.365	2.110	bb	38.6381	96.6	-3.4	34.4	
WXX100408-08CRI	PETN	361 > 62	24.38	2954.841	42512.996	2954.841	34.752	bb	43.3357	108.3	8.3	1075.4	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/09/10
 Time of Injection 0257
 Standard Number WXX100408-08CRI
 Data File EXP0408012a

HMX	106.9
RDX	105.3
135-TNB	100.3
13-DNB	103.6
Tetryl	99.2
Nitrobenzene	111.4
4A-26-DNT	105.2
2A-46-DNT	95.4
246-TNT	96.1
34-DNT(surr)	107.2
26-DNT	101.7
24-DNT	96.8
2-NT	102.0
4-NT	112.3
3-NT	96.6
PETN	108.3

*not
4/10/10*

Total 1648.3

Average 103.0

Amended 4/11/10

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408023a

Analysis Date: 09-APR-10 08:21

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	602.085	100	
1,3-Dinitrobenzene-d4	500	509.39	102	
2,4,6-Trinitrotoluene	600	715.187	119	
2,4-Dinitrotoluene	600	602.1	100	
2,6-Dinitrotoluene	600	602.02	100	
2,6-Dinitrotoluene-d3	500	495.787	99	
2-Amino-4,6-dinitrotoluene	600	644.303	107	
3,4-Dinitrotoluene	300	301.84	101	
4-Amino-2,6-dinitrotoluene	600	630.065	105	
HMX	600	635.768	106	
Nitrobenzene	600	572.021	95	
PETN	600	626.401	104	
RDX	600	690.522	115	
Tetryl	600	685.312	114	
m-Dinitrobenzene	600	617.8	103	
m-Nitrotoluene	600	521.623	87	
o-Nitrotoluene	600	549.165	92	
p-Nitrotoluene	600	580.011	97	

Recovery Limits:

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

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Apr 09 10:56:07 2010, Page 45 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

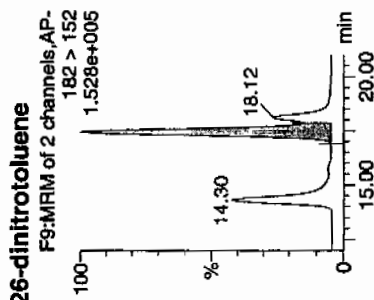
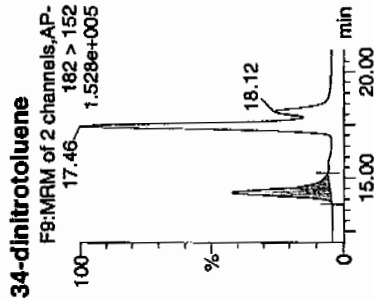
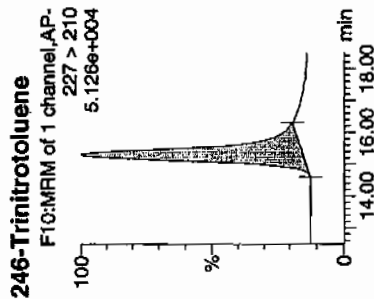
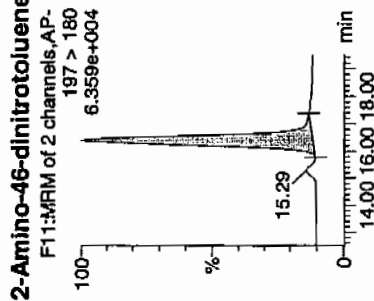
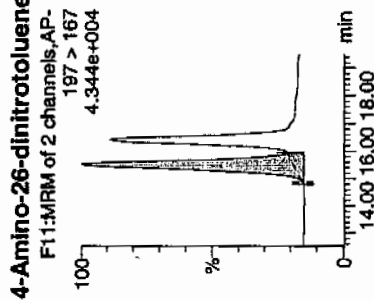
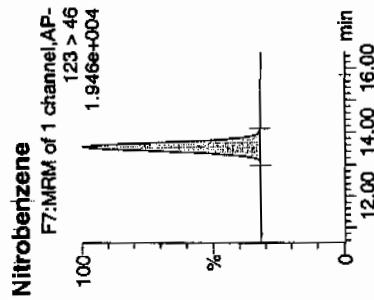
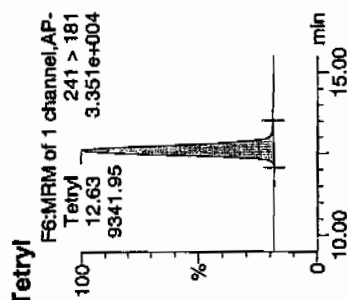
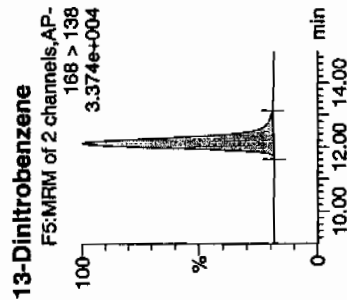
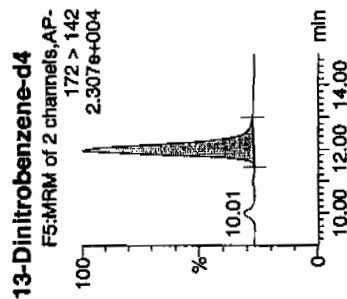
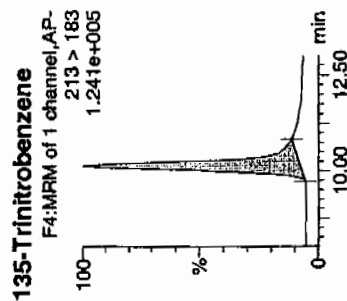
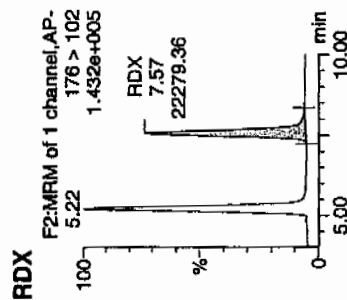
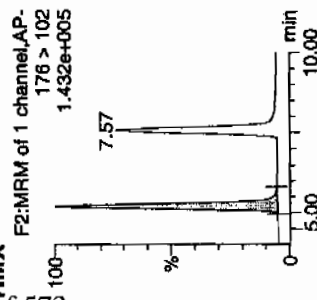
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ID: WXX100408-07CCV

Vial: 1:1,B

HT
4/10/10

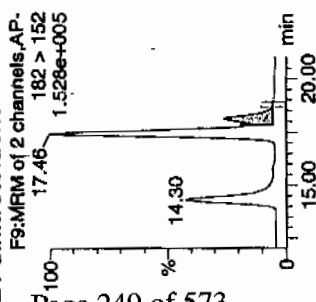
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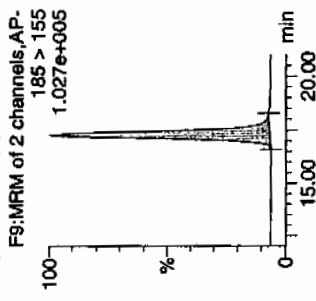
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4/10/10

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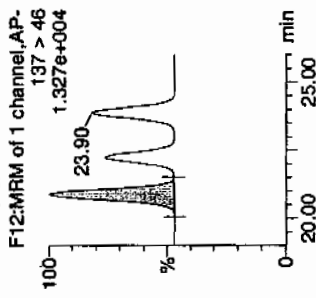
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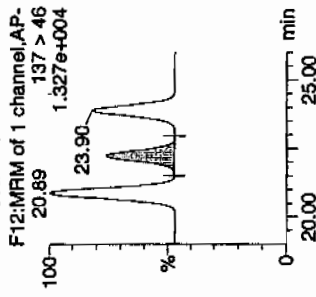
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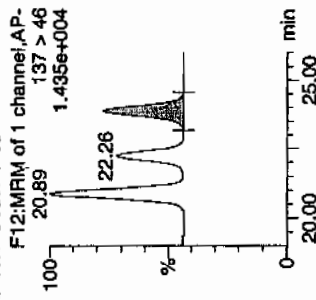
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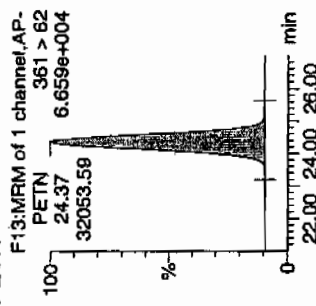
4-Nitrotoluene



3-Nitrotoluene



NIJ



ID	Name	Trace	Ref	Area	Abs Resp	Response	Flags	Mod Date	Mod Time	From	Rec	Dev	ASN
WX100408-07CCV	HMX	176 > 102	5.22	28888.053	26888.053	2030.794	db			635.7683	106.0	6.0	1389.4
WX100408-07CCV	RDX	176 > 102	7.57	22279.355	22279.355	1682.710	bb			690.5222	115.1	15.1	990.2
WX100408-07CCV	135-Trinitrobenzene	213 > 183	10.14	33667.313	33667.313	2542.817	bb			602.0854	100.3	0.3	1443.6
WX100408-07CCV	13-Dinitrobenzene-d4	172 > 142	11.97	5620.083	6620.083	6620.083	bb			509.3900	101.9	1.9	394.9
WX100408-07CCV	13-Dinitrobenzene	168 > 138	12.14	10534.502	10534.502	795.647	bb			617.8002	103.0	3.0	1362.8
WX100408-07CCV	Tetryl	241 > 181	12.63	9341.951	9341.951	705.577	bb			685.3125	114.2	14.2	879.0
WX100408-07CCV	Nitrobenzene	123 > 46	13.54	4551.790	4551.790	343.786	bb			572.0208	95.3	-4.7	352.5
WX100408-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.53	15355.744	15355.744	196.135	MM	09-Apr-10	10:45:05	630.0651	105.0	5.0	341.5
WX100408-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.41	23044.184	23044.184	294.337	bb			644.3029	107.4	7.4	825.3
WX100408-07CCV	246-Trinitrotoluene	227 > 210	15.31	21545.883	21545.883	275.199	bb			715.1871	119.2	19.2	461.9
WX100408-07CCV	34-dinitrotoluene	182 > 152	14.30	24236.105	24236.105	309.561	bb			301.8997	100.6	0.6	485.9
WX100408-07CCV	26-dinitrotoluene	182 > 152	17.46	53606.605	53606.605	684.702	MM	09-Apr-10	10:47:53	602.0199	100.3	0.3	1241.1
WX100408-07CCV	24-dinitrotoluene	182 > 152	18.12	12479.443	12479.443	159.396	MM	09-Apr-10	10:50:30	602.0996	100.3	0.3	264.8
WX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.29	39145.949	39145.949	39145.949	bb			495.7871	99.2	-0.8	2624.1
WX100408-07CCV	2-Nitrotoluene	137 > 46	20.89	3300.370	3300.370	42.155	bb			549.1649	91.5	-8.5	193.1
WX100408-07CCV	4-Nitrotoluene	137 > 46	22.26	1764.813	1764.813	22.541	bb			580.0114	96.7	-3.3	105.3
WX100408-07CCV	3-Nitrotoluene	137 > 46	23.90	2229.690	2229.690	28.479	bb			521.6233	86.9	-13.1	145.6
WX100408-07CCV	PETN	361 > 62	24.37	32053.586	32053.586	409.411	bb			626.4013	104.4	4.4	14663.5

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

*102.9
4/10/10*

Total 1646.2

Average 102.9

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): 10-2071

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

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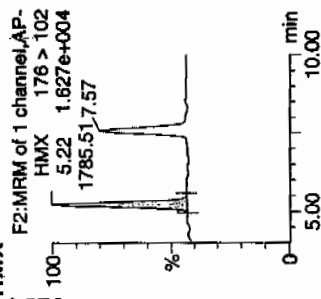
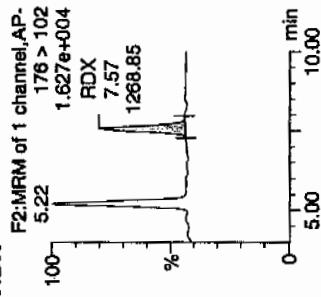
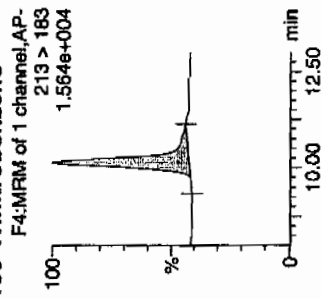
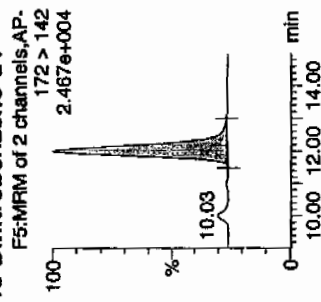
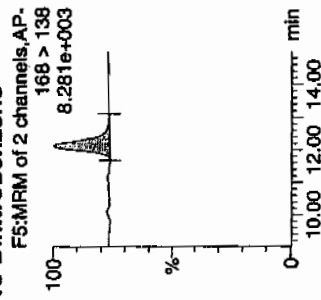
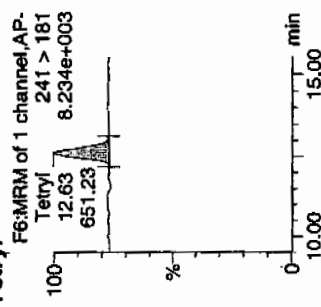
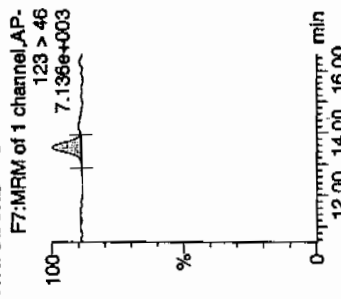
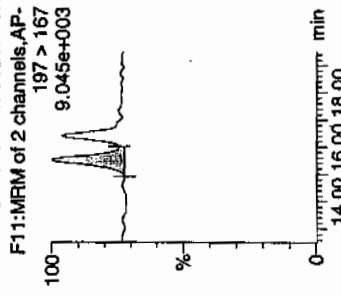
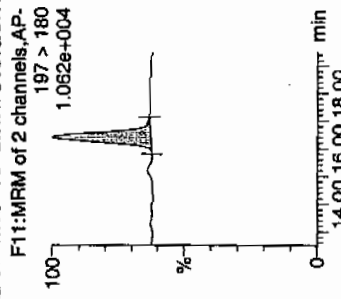
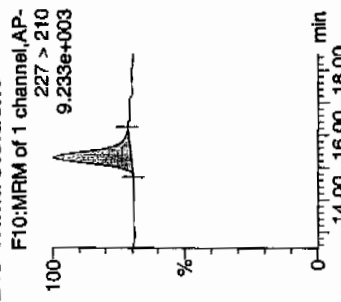
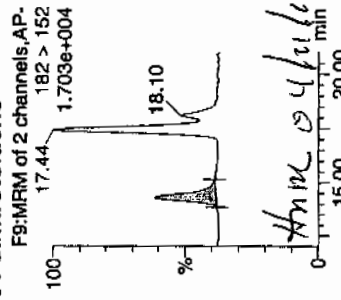
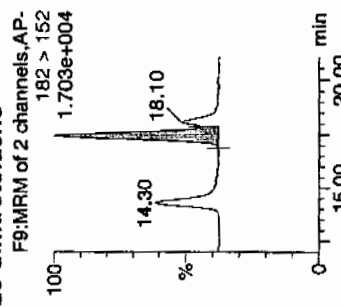
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Date: 09-Apr-2010

Time: 09:20:28

ID: WXX100408-08CRI

Vial: 1:1,C

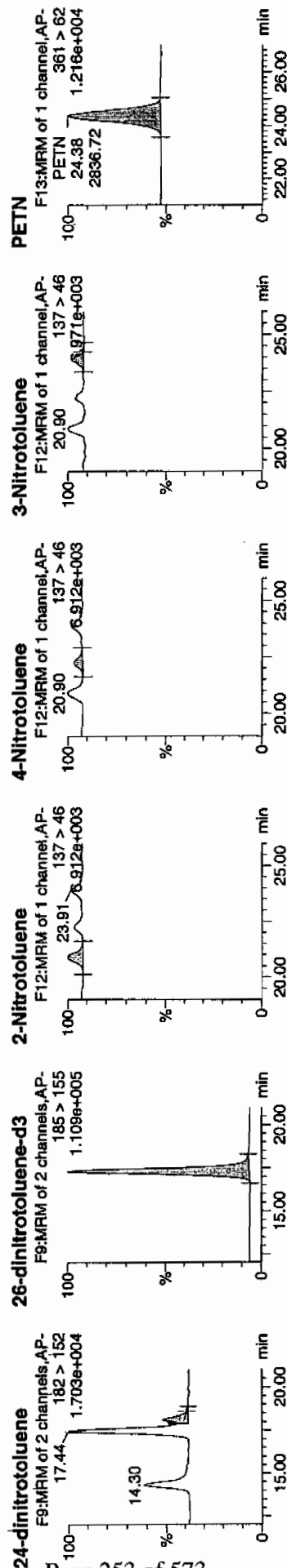
WXX
04/09/10**HMX****RDX****135-Trinitrobenzene****13-Dinitrobenzene-d4****13-Dinitrobenzene****Tetryl****Nitrobenzene****4-Amino-26-dinitrotoluene****2-Amino-46-dinitrotoluene****246-Trinitrotoluene****34-dinitrotoluene****26-dinitrotoluene**

Anne 04/09/10

Quantify Sample Report

Analyst: Michael A. Penny

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



Name	ID	Trace	Area	S Area	Abs Hresh	Response	Fate	Mod Date	Mod Time	TOTM	%Rec	%Dev
HMX	WXX100408-08CRI	176 > 102	1785.509	7172.133	1785.509	124.475	bb			38.9888	97.4	-2.6
RDX	WXX100408-08CRI	176 > 102	1268.851	7172.133	1268.851	88.457	bb			36.2995	90.7	-9.3
135-Trinitrobenzene	WXX100408-08CRI	213 > 183	2756.432	7172.133	2756.432	192.163	bb			45.5001	113.8	13.8
13-Dinitrobenzene-d4	WXX100408-08CRI	172 > 142	7172.133		7172.133	7172.133	bb			551.8681	110.4	10.4
13-Dinitrobenzene	WXX100408-08CRI	168 > 138	733.552	7172.133	733.552	51.139	bb			39.7082	99.3	-0.7
Tetryl	WXX100408-08CRI	241 > 181	651.230	7172.133	651.230	45.400	bb			44.0961	110.2	10.2
Nitrobenzene	WXX100408-08CRI	123 > 46	291.435	7172.133	291.435	20.317	bb			33.8054	84.5	-15.5
4-Amino-26-dinitrotoluene	WXX100408-08CRI	197 > 167	1045.621	42169.504	1045.621	12.398	MM	09-Apr-10	10:45:13	39.8270	99.6	-0.4
2-Amino-46-dinitrotoluene	WXX100408-08CRI	197 > 180	1591.803	42169.504	1591.803	18.874	bb			41.3149	103.3	3.3
246-Trinitrotoluene	WXX100408-08CRI	227 > 210	1257.368	42169.504	1257.368	14.908	bb			38.7441	96.9	-3.1
34-dinitrotoluene	WXX100408-08CRI	182 > 152	1658.674	42169.504	1658.674	19.667	bb			19.1762	95.9	-4.1
26-dinitrotoluene	WXX100408-08CRI	182 > 152	3897.471	42169.504	3897.471	46.212	MM	09-Apr-10	10:48:07	40.6316	101.6	1.6
24-dinitrodiluene	WXX100408-08CRI	182 > 152	889.509	42169.504	889.509	10.547	MM	09-Apr-10	10:50:47	39.8393	99.6	-0.4
26-dinitrotoluene-d3	WXX100408-08CRI	185 > 155	42169.504		42169.504	42169.504	bb			534.0807	106.8	6.8
2-Nitrotoluene	WXX100408-08CRI	137 > 46	281.676	42169.504	281.676	3.340	bb			43.5089	108.8	8.8
4-Nitrotoluene	WXX100408-08CRI	137 > 46	145.220	42169.504	145.220	1.722	bb			44.3050	110.8	10.8
3-Nitrotoluene	WXX100408-08CRI	137 > 46	182.823	42169.504	182.823	2.168	MM	09-Apr-10	10:52:03	39.7038	99.3	-0.7
PETN	WXX100408-08CRI	361 > 62	2836.721	42169.504	2836.721	33.635	bb			41.7853	104.5	4.5

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

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): 10-2071

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
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	
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	

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 21 of 99

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

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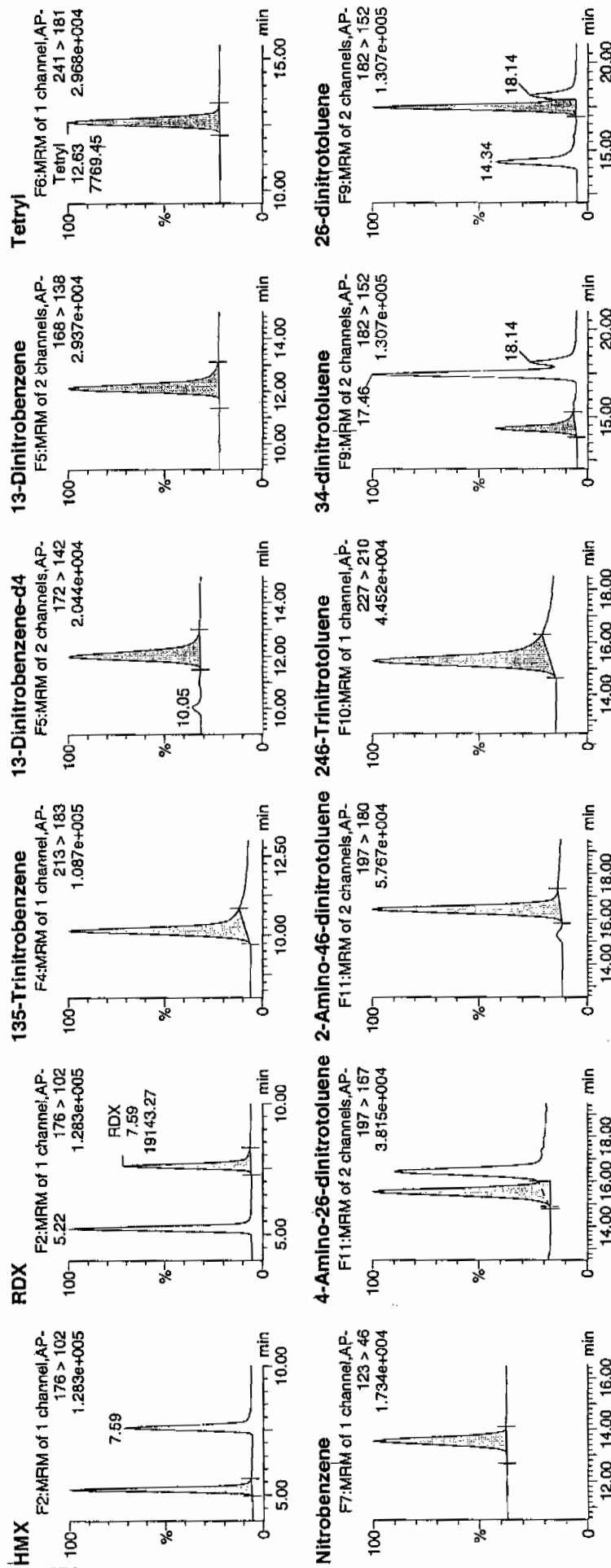
Date: 09-Apr-2010

Time: 14:44:48

ID: WXX100408-07CCV

Vial: 1:1,B

10/10/10



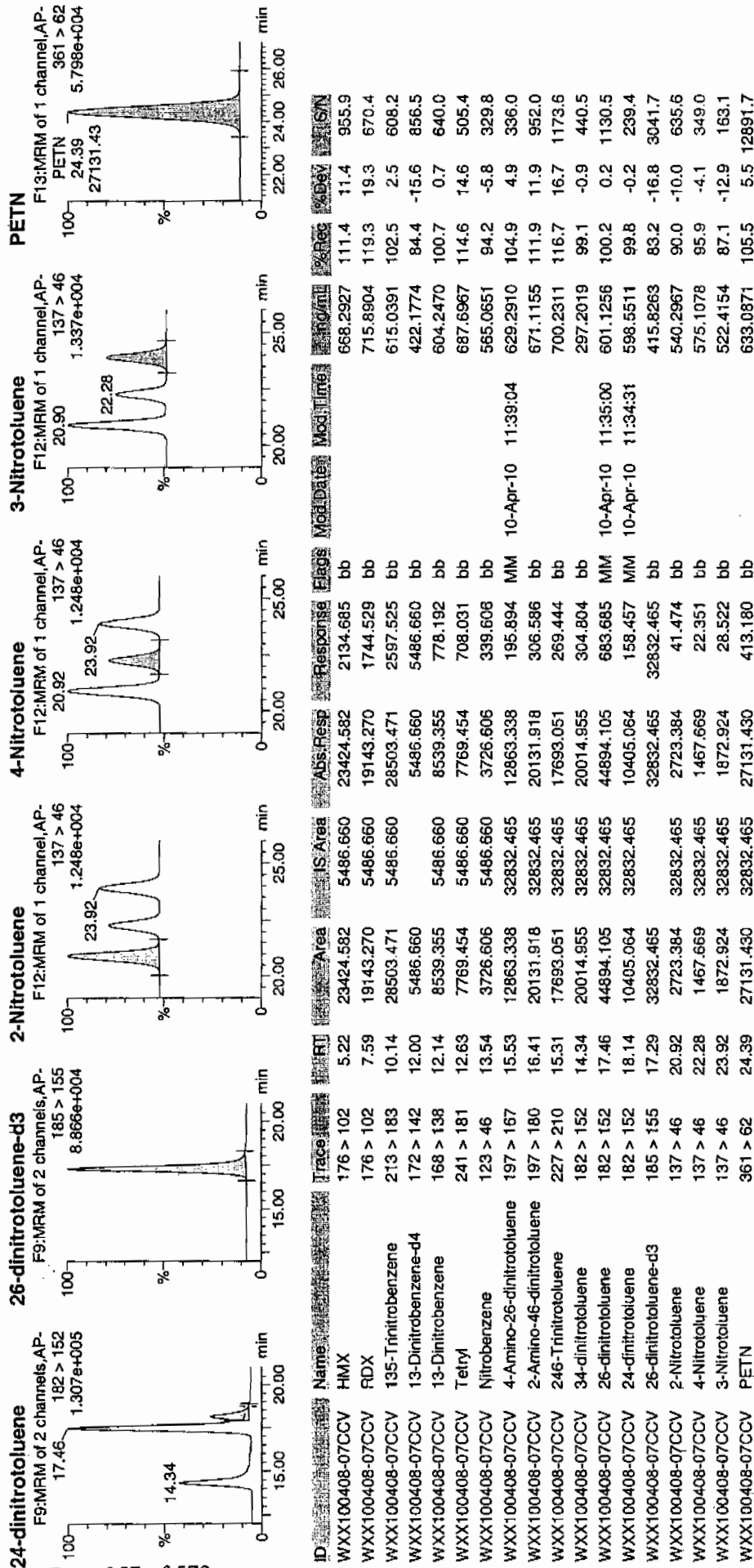
mm 04/11/10

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

Printed: Sat Apr 10 11:42:30 2010, Page 22 of 99



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/09/10
 Time of Injection: 1444
 Standard Number: WXX100408-07CCV
 Data File: EXP0408036a

HMX	111.4
RDX	119.3
135-TNB	102.5
13-DNB	100.7
Tetryl	114.6
Nitrobenzene	94.2
4A-26-DNT	104.9
2A-46-DNT	111.9
246-TNT	116.7
34-DNT(surr)	99.1
26-DNT	100.2
24-DNT	99.8
2-NT	90.0
4-NT	95.9
3-NT	87.1
PETN	105.5

*not
4/10/10*

Total 1653.8

Average 103.4

Done 04/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

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
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	
3,4-Dinitrotoluene	20	20.469	102	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

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

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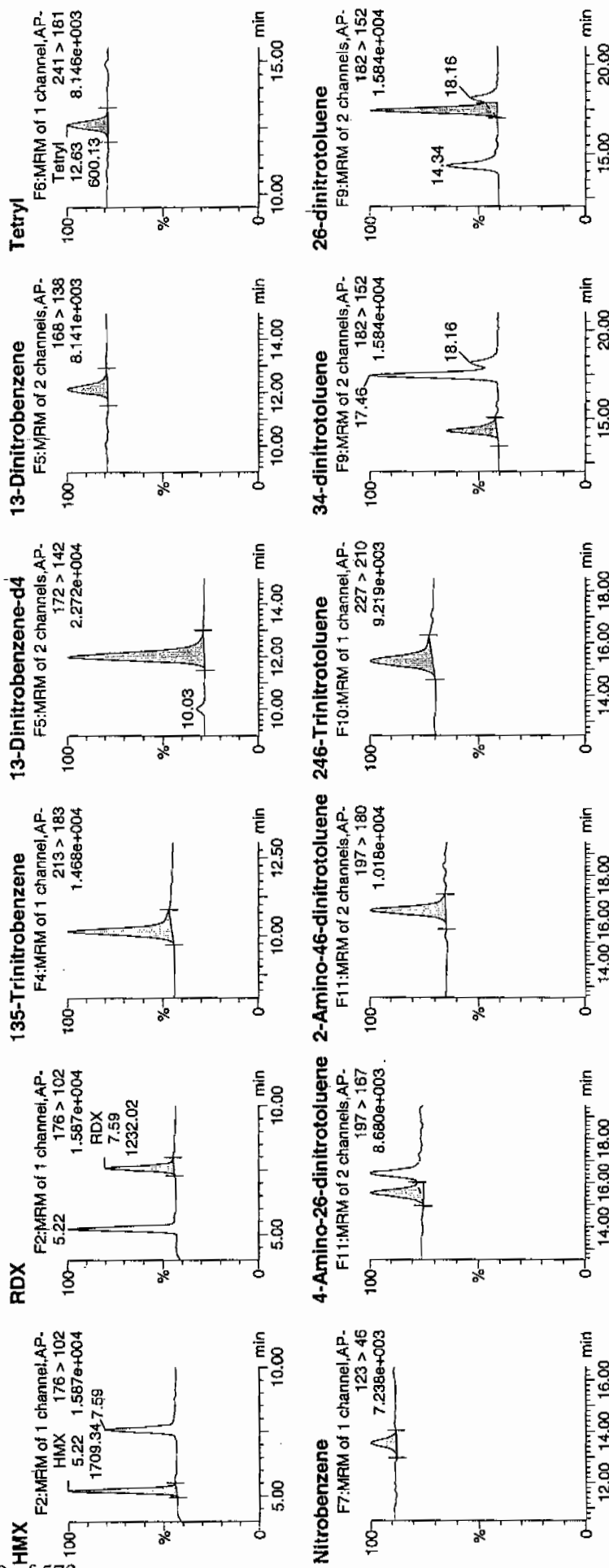
Date: 09-Apr-2010

Time: 15:43:52

ID: WXX100408-08CRI

Vial: 1:1,C

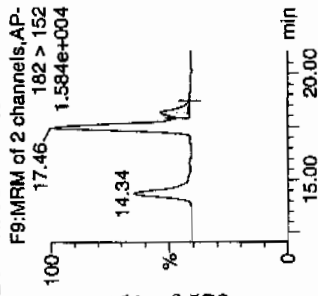
4/10/10



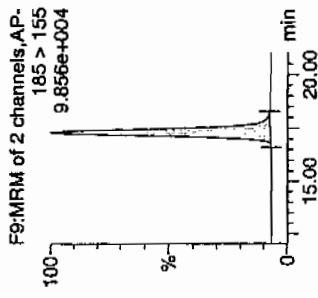
4/10/10

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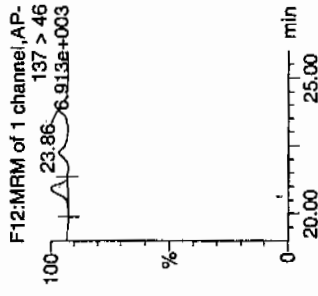
24-dinitrotoluene



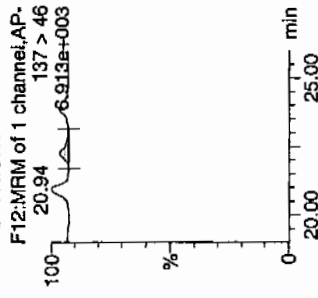
26-dinitrotoluene-d3



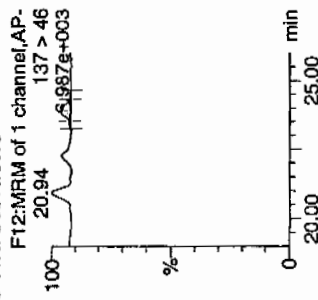
2-Nitrotoluene



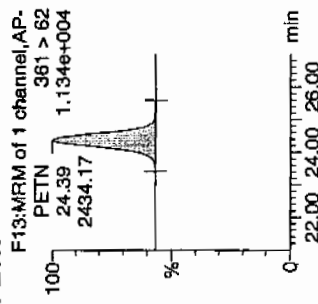
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Dev	SN
WXX100408-08CRI	HMX	176 > 102	5.22	1709.343	6342.622	1709.343	134.751	bb			105.5	5.5	183.0
WXX100408-08CRI	RD	176 > 102	7.59	1232.022	6342.622	1232.022	97.122	bb			99.6	-0.4	116.2
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2282.100	6342.622	2282.100	178.902	bb			106.5	6.5	213.1
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	6342.622	6342.622	6342.622	6342.622	bb			97.6	-2.4	546.0
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	12.14	647.869	6342.622	647.869	51.073	bb			99.1	-0.9	29.3
WXX100408-08CRI	Tetryl	241 > 181	12.63	600.128	6342.622	600.128	47.309	bb			114.9	14.9	52.9
WXX100408-08CRI	Nitrobenzene	123 > 46	13.54	318.776	6342.622	318.776	25.130	bb			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	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			109.5	9.5	52.7
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.31	1267.309	36878.363	1267.309	17.182	bb			111.6	11.6	129.8
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.34	1548.369	36878.363	1548.369	20.983	bb			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	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	104.8	4.8	31.0
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.29	36878.363	36878.363	36878.363	36878.363	bb			93.4	-6.6	2402.7
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.94	228.128	36878.363	228.128	3.093	bb			100.7	0.7	71.1
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.27	139.089	36878.363	139.089	1.886	bb			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	104.4	4.4	14.1
WXX100408-08CRI	PETN	361 > 62	24.39	2434.169	36878.363	2434.169	33.003	bb			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
9/10/10*

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): 10-2071

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
m-Dinitrobenzene	600	600.408	100	
m-Nitrotoluene	600	529.621	88	
o-Nitrotoluene	600	550.66	92	
p-Nitrotoluene	600	590.579	98	
1,3,5-Trinitrobenzene	600	626.151	104	
1,3-Dinitrobenzene-d4	500	411.022	82	
2,4,6-Trinitrotoluene	600	720.578	120	*
2,4-Dinitrotoluene	600	610.114	102	
2,6-Dinitrotoluene	600	610.942	102	
2,6-Dinitrotoluene-d3	500	390.069	78	*
2-Amino-4,6-dinitrotoluene	600	714.631	119	
3,4-Dinitrotoluene	300	314.02	105	
4-Amino-2,6-dinitrotoluene	600	619.274	103	
HMX	600	698.805	116	
Nitrobenzene	600	573.858	96	
PETN	600	681.011	114	
RDX	600	745.866	124	*
Tetryl	600	716.114	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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 41 of 99

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408046a

Date: 09-Apr-2010

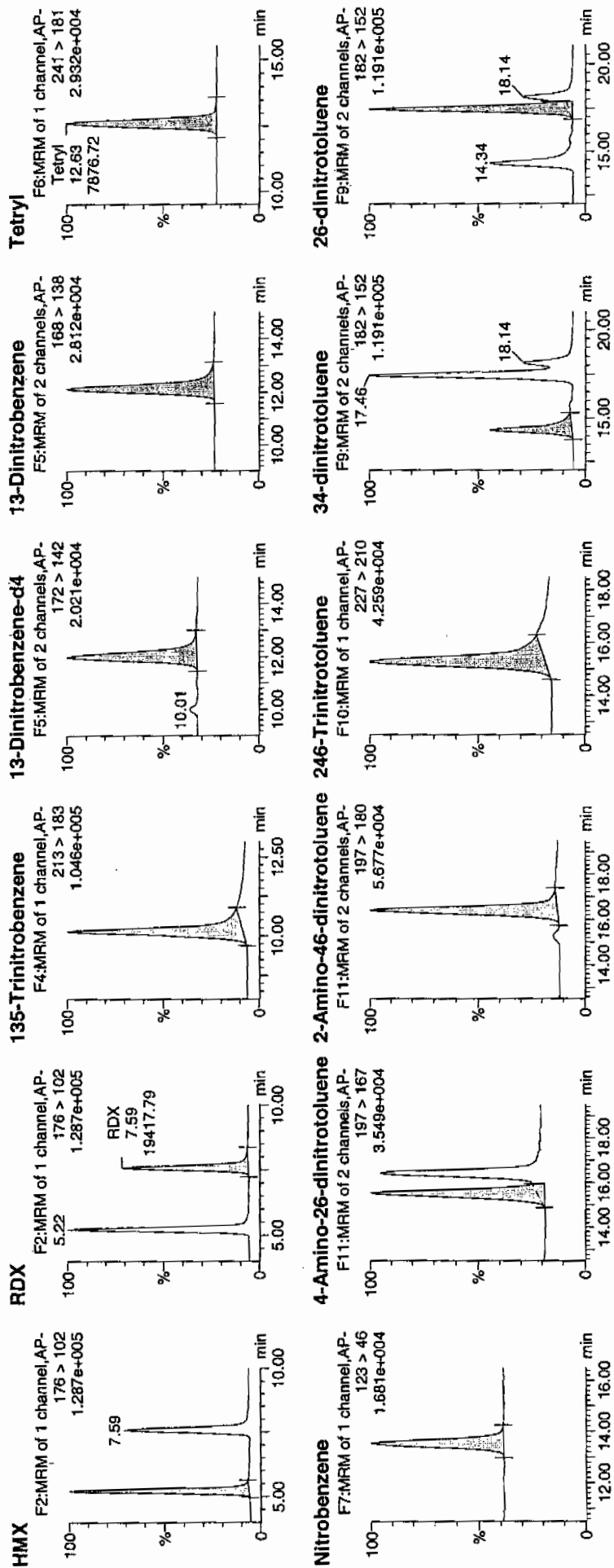
Time: 19:43:09

ID: WXX100408-07CCV

Vial: 1:1,B

WXX
4/10/10

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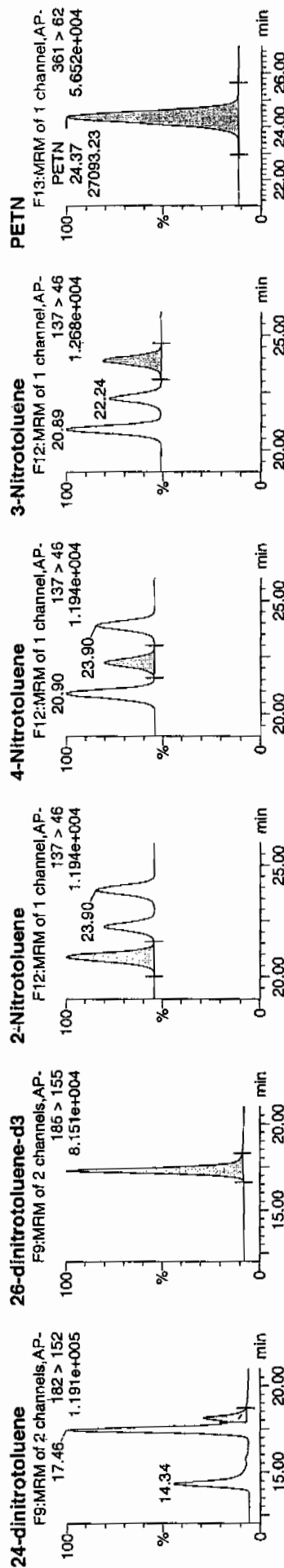


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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

Dataset: C:\MASSLYNX\New_Exp\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	Area	% Rec	% Dev	SN
WXX100408-07CCV	HMX	176 > 102	5.22	23846.848	5341.678	23846.848	2232.150	bb			698.8053	116.5	16.5	2793.1
WXX100408-07CCV	RDX	176 > 102	7.59	19417.789	5341.678	19417.789	1817.574	bb			745.8655	124.3	24.3	1942.5
WXX100408-07CCV	135-Trinitrobenzene	213 > 183	10.14	28251.629	5341.678	28251.629	2644.453	bb			626.1507	104.4	4.4	3005.7
WXX100408-07CCV	13-Dinitrobenzene	172 > 142	11.97	5341.678		5341.678	5341.678	bb			411.0216	82.2	-17.8	549.3
WXX100408-07CCV	13-Dinitrobenzene	168 > 138	12.14	8260.887	5341.678	8260.887	773.248	bb			600.4080	100.1	0.1	773.1
WXX100408-07CCV	Tetryl	241 > 181	12.63	7876.723	5341.678	7876.723	737.289	bb			716.1143	119.4	19.4	646.1
WXX100408-07CCV	Nitrobenzene	123 > 46	13.54	3684.591	5341.678	3684.591	344.891	bb			573.8582	95.6	-4.4	346.3
WXX100408-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.53	11874.462	30798.709	11874.462	192.775	MM	10-Apr-10	11:38:34	619.2739	103.2	3.2	467.1
WXX100408-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.41	20109.385	30798.709	20109.385	326.465	bb			714.6310	119.1	19.1	591.6
WXX100408-07CCV	246-Trinitrotoluene	227 > 210	15.31	17079.340	30798.709	17079.340	277.274	bb			720.5776	120.1	20.1	938.9
WXX100408-07CCV	34-dinitrotoluene	182 > 152	14.34	19837.617	30798.709	19837.617	322.053	bb			314.0201	104.7	4.7	600.8
WXX100408-07CCV	26-dinitrotoluene	182 > 152	17.46	42800.914	30798.709	42800.914	694.849	MM	10-Apr-10	11:35:20	610.9419	101.8	1.8	1478.7
WXX100408-07CCV	24-dinitrotoluene	182 > 152	18.14	9949.095	30798.709	9949.095	161.518	MM	10-Apr-10	11:34:13	610.1140	101.7	1.7	344.3
WXX100408-07CCV	26-dinitrotoluene-d3	185 > 155	17.29	30798.709		30798.709	30798.709	bb			390.0686	78.0	-22.0	1409.6
WXX100408-07CCV	2-Nitrotoluene	137 > 46	20.90	2603.687	30798.709	2603.687	42.269	bb			550.6596	91.8	-8.2	150.7
WXX100408-07CCV	4-Nitrotoluene	137 > 46	22.25	1413.793	30798.709	1413.793	22.952	bb			590.5789	98.4	-1.6	85.8
WXX100408-07CCV	3-Nitrotoluene	137 > 46	23.88	1781.142	30798.709	1781.142	28.916	bb			529.6212	88.3	-11.7	81.1
WXX100408-07CCV	PETN	361 > 82	24.37	27093.227	30798.709	27093.227	439.844	bb			681.0113	113.5	13.5	552.1

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/09/10
 Time of Injection: 1943
 Standard Number: WXX100408-07CCV
 Data File: EXP0408046a

HMX	116.5
RDX	124.3
135-TNB	104.4
13-DNB	100.1
Tetryl	119.4
Nitrobenzene	95.6
4A-26-DNT	103.2
2A-46-DNT	119.1
246-TNT	120.1
34-DNT(surr)	104.7
26-DNT	101.8
24-DNT	101.7
2-NT	91.8
4-NT	98.4
3-NT	88.3
PETN	113.5

*1077
4/10/10*

Total 1702.9

Average 106.4

Approved
 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): 10-2071

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

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

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408048a

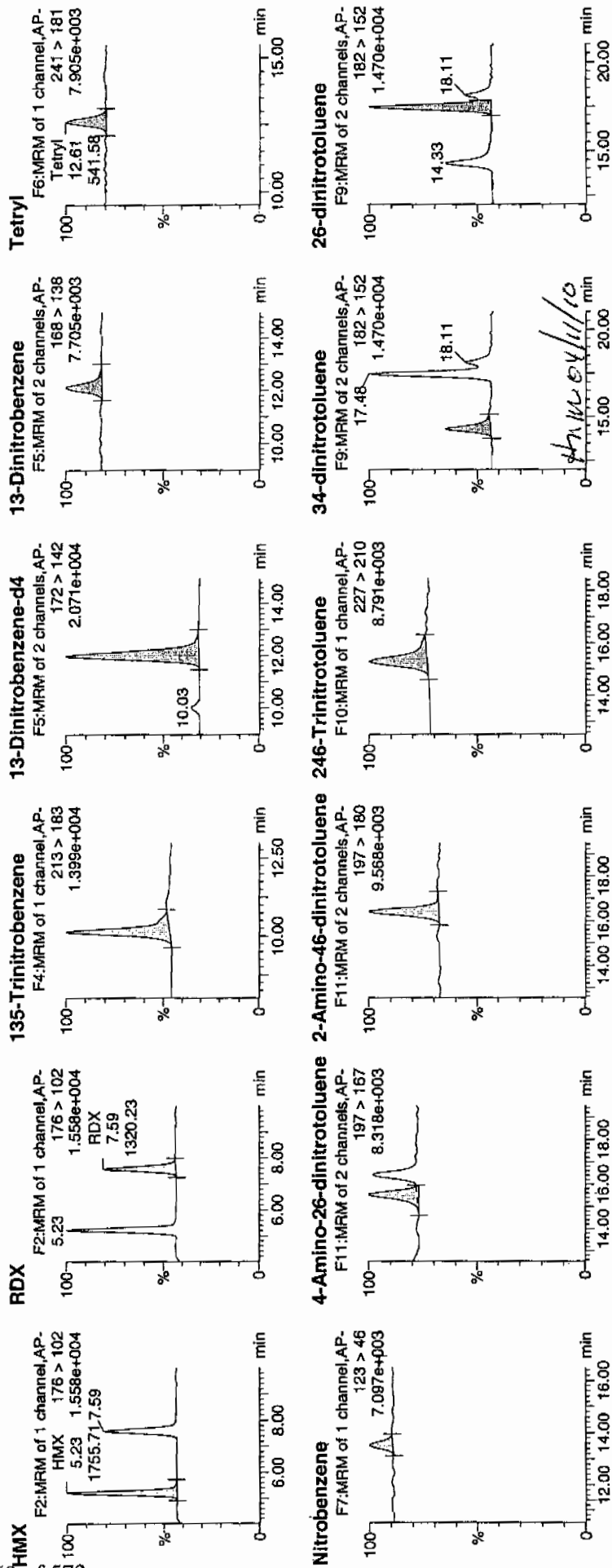
Date: 09-Apr-2010

Time: 20:42:06

ID: WXX100408-08CRI

Vial: 1:1,C

4/10/10

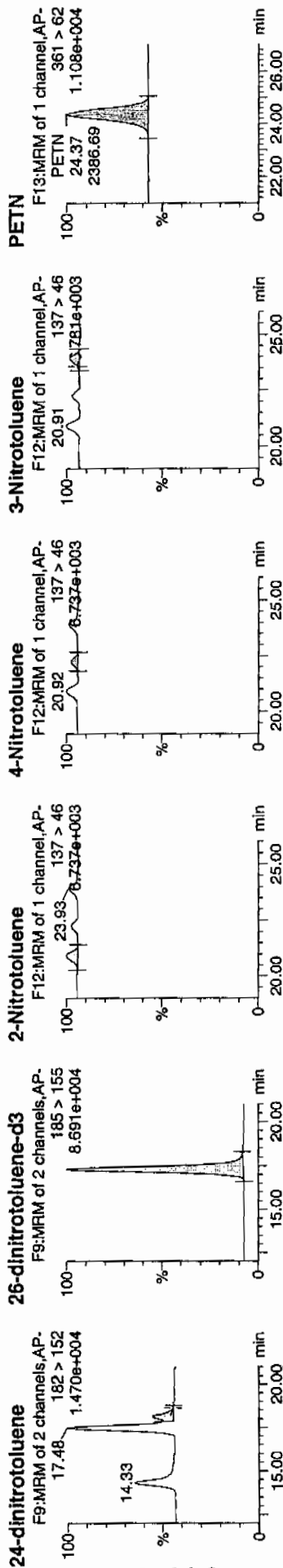


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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

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



ID	Name	Trace	RT	Area	S:Area	Abs:Resp	Response	Flags	Mod Date	Mod Time	Norm	Rec	Dev	SN
WXX100408-08CRI	HMX	176 > 102	5.23	1755.715	5528.944	1755.715	158.775	bb	10-Apr-10	11:38:26	49.7067	124.3	24.3	253.8
WXX100408-08CRI	RDX	176 > 102	7.59	1320.235	5528.944	1320.235	119.393	bb			48.9945	122.5	22.5	167.2
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2186.401	5528.944	2186.401	197.723	bb			46.8167	117.0	17.0	134.1
WXX100408-08CRI	13-Dinitrobenzene	172 > 142	12.00	5528.944	5528.944	5528.944	5528.944	bb			425.4310	85.1	-14.9	244.1
WXX100408-08CRI	13-Dinitrobenzene	188 > 138	12.13	543.243	5528.944	543.243	49.127	bb			38.1460	95.4	-4.6	40.7
WXX100408-08CRI	Tetryl	241 > 181	12.61	541.575	5528.944	541.575	48.976	bb			47.5698	118.9	18.9	43.5
WXX100408-08CRI	Nitrobenzene	123 > 46	13.53	247.982	5528.944	247.982	22.426	bb			37.3139	93.3	-6.7	21.6
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.54	821.968	32671.566	821.968	12.579	MM	10-Apr-10	11:38:26	40.4098	101.0	1.0	26.3
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.42	1245.053	32671.566	1245.053	19.054	bb			41.7094	104.3	4.3	75.5
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.30	1151.209	32671.566	1151.209	17.618	bb			45.7853	114.5	14.5	99.7
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.33	1332.043	32671.566	1332.043	20.385	bb			19.8769	99.4	-0.6	64.0
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.48	3032.749	32671.566	3032.749	46.413	MM	10-Apr-10	11:35:30	40.8081	102.0	2.0	171.2
WXX100408-08CRI	24-dinitrotoluene	182 > 152	18.11	678.479	32671.566	678.479	10.383	MM	10-Apr-10	11:34:04	39.2217	98.1	-1.9	34.6
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.30	32671.566	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	2.945	bb			38.3703	95.9	-4.1	53.9
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.24	92.891	32671.566	92.891	1.422	bb			36.5787	91.4	-8.6	30.6
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.95	134.623	32671.566	134.623	2.060	MM	10-Apr-10	11:30:24	37.7354	94.3	-5.7	30.4
WXX100408-08CRI	PETN	361 > 62	24.37	2386.693	32671.566	2386.693	36.526	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

4/9/10

Total 1686.8

Average 105.4

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408059a

Analysis Date: 10-APR-10 02:06

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	637.472	106	
1,3-Dinitrobenzene-d4	500	406.896	81	
2,4,6-Trinitrotoluene	600	750.861	125	*
2,4-Dinitrotoluene	600	611.885	102	
2,6-Dinitrotoluene	600	605.131	101	
2,6-Dinitrotoluene-d3	500	399.227	80	*
2-Amino-4,6-dinitrotoluene	600	658.874	110	
3,4-Dinitrotoluene	300	306.732	102	
4-Amino-2,6-dinitrotoluene	600	652.267	109	
HMX	600	711.322	119	
Nitrobenzene	600	579.312	97	
PETN	600	690.737	115	
RDX	600	755.934	126	*
Tetryl	600	720.544	120	*
m-Dinitrobenzene	600	636.143	106	
m-Nitrotoluene	600	533.946	89	
o-Nitrotoluene	600	552.318	92	
p-Nitrotoluene	600	573.913	96	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 67 of 99

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

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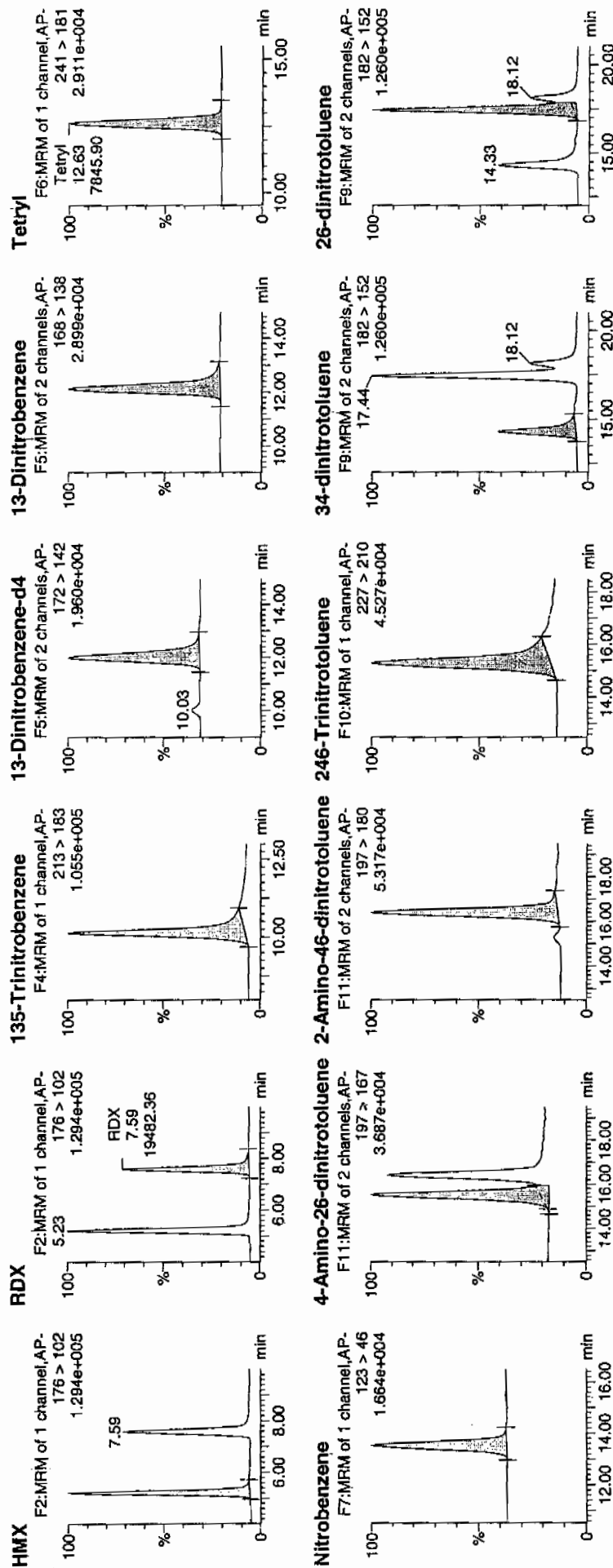
Date: 10-Apr-2010

Time: 02:06:36

ID: WXX100408-07CCV

Vial: 1:1,B

4/10/10



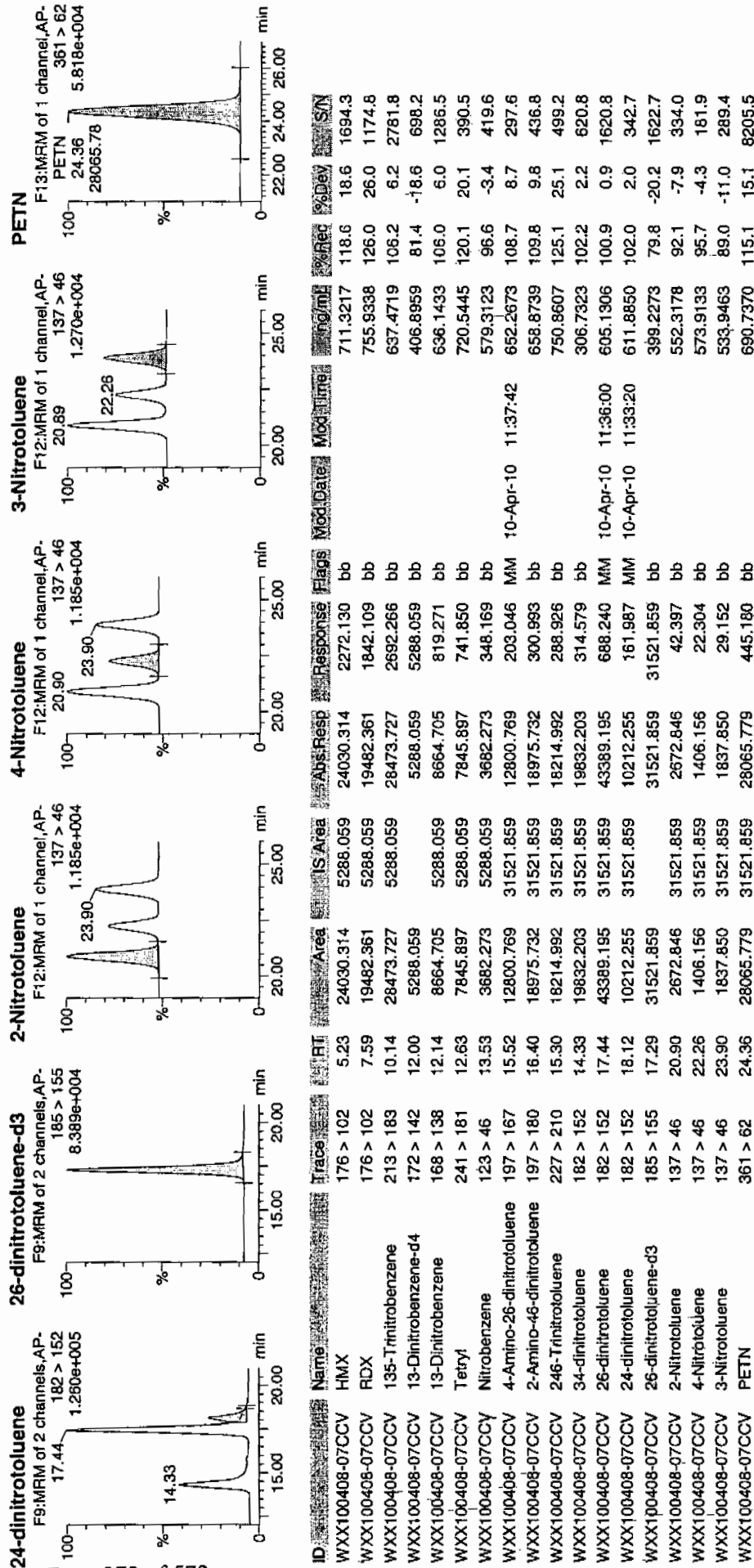
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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

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



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

Ann 04/11/10

Average 107.1

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

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-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	
1,3,5-Trinitrobenzene	40	46.393	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 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 71 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\EXP0408061a

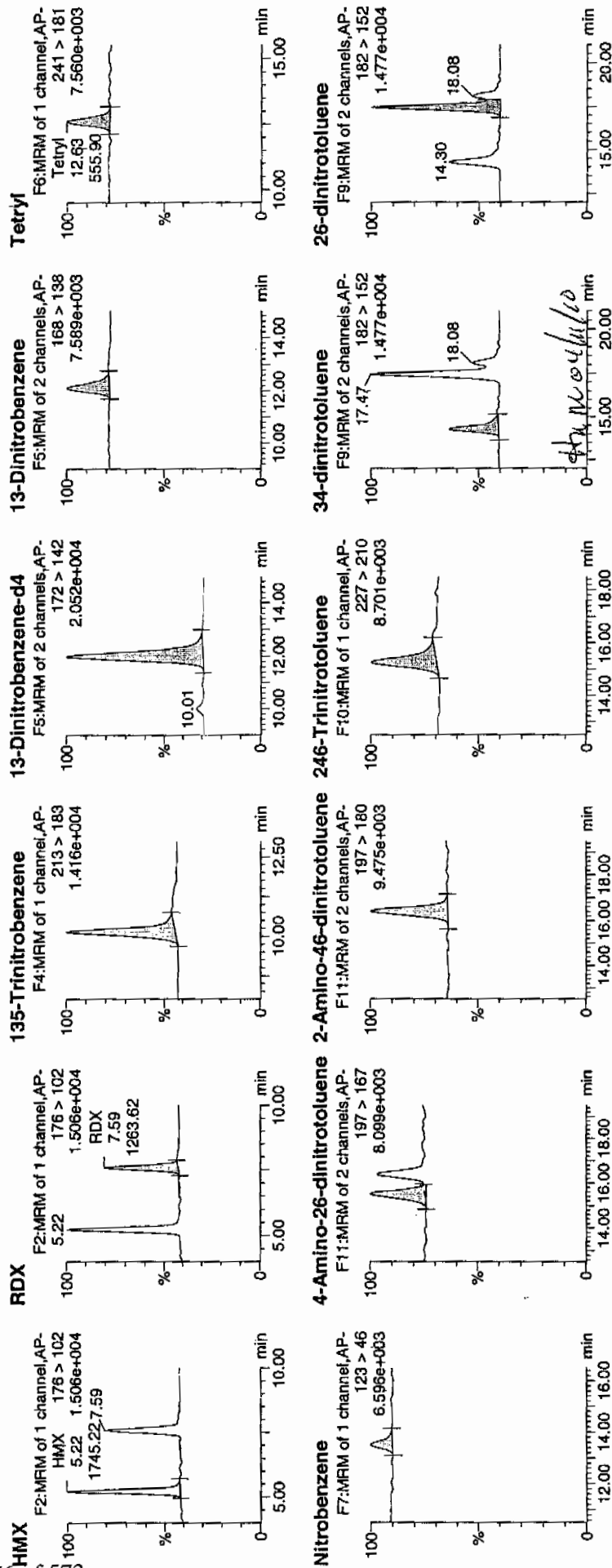
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Time: 03:05:40

ID: WXX100408-08CRI

Vial: 1:1,C

NOT
4/10/10

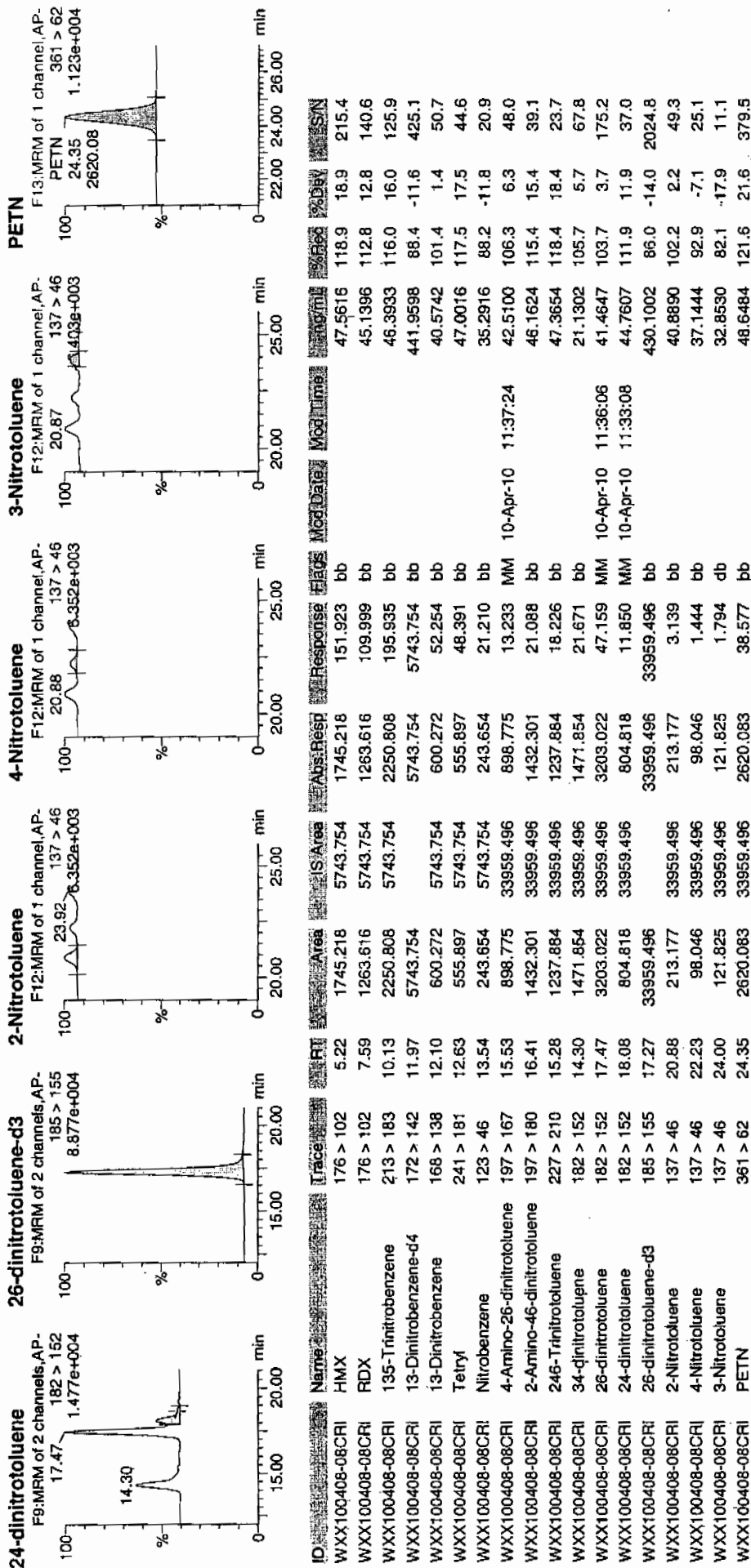


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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

Printed: Sat Apr 10 11:42:30 2010, Page 72 of 99



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

Handwritten: 4/10/10

Total 1715.0

Average 107.2

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408072a

Analysis Date: 10-APR-10 08:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	600	686.265	114	
3,4-Dinitrotoluene	300	310.058	103	
4-Amino-2,6-dinitrotoluene	600	642.746	107	
HMX	600	660.224	110	
Nitrobenzene	600	526.993	88	
PETN	600	719.605	120	
RDX	600	678.872	113	
Tetryl	600	856.18	143	*
m-Dinitrobenzene	600	587.331	98	
m-Nitrotoluene	600	507.624	85	
o-Nitrotoluene	600	528.075	88	
p-Nitrotoluene	600	578.663	96	
1,3,5-Trinitrobenzene	600	582.253	97	
1,3-Dinitrobenzene-d4	500	448.35	90	
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	

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

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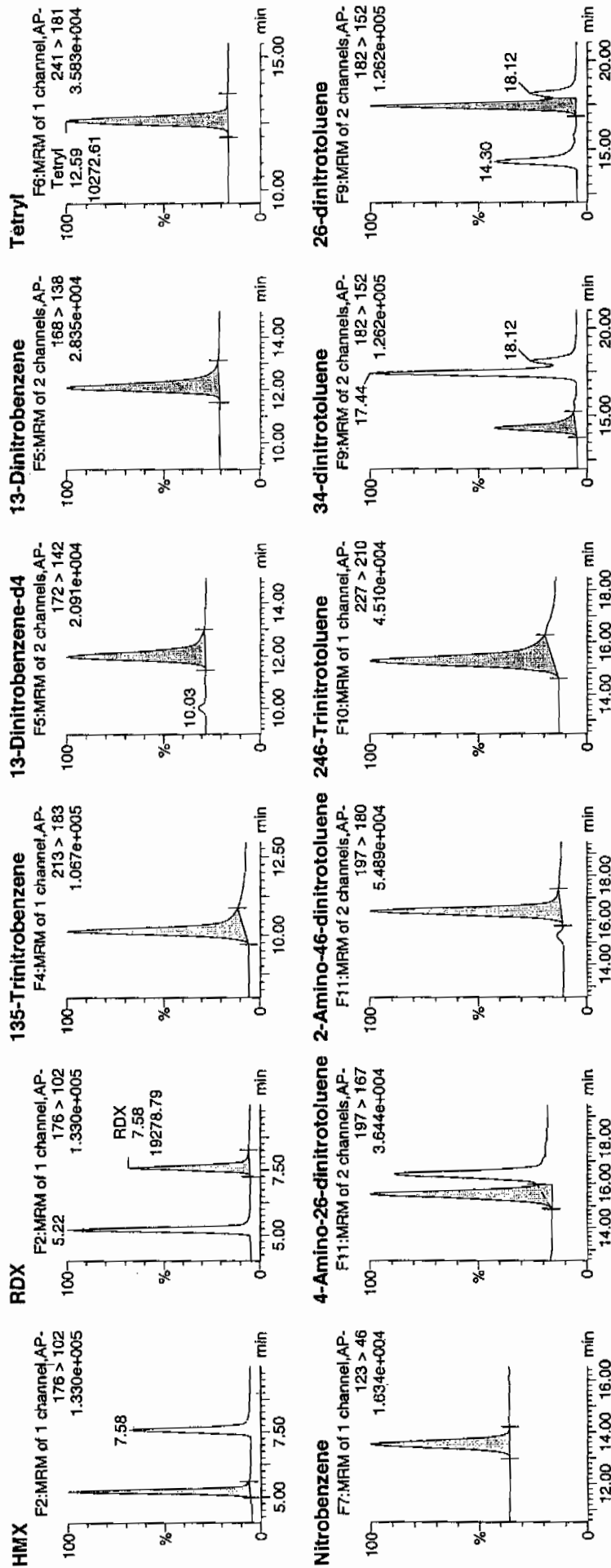
Date: 10-Apr-2010

Time: 08:30:12

ID: WXX100408-07CCV

Vial: 1:1, B

MT
4/10/10



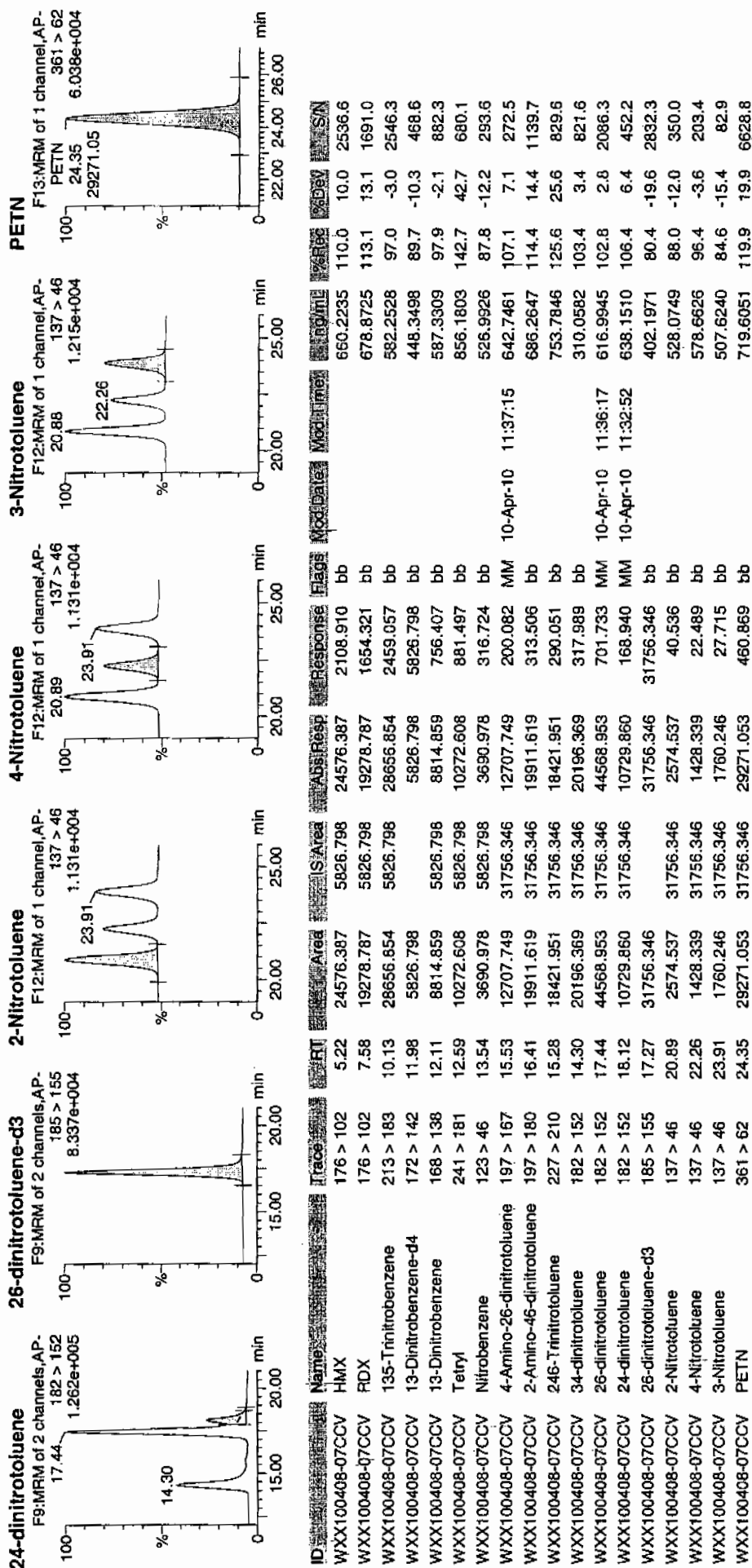
4/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Apr 10 11:42:30 2010, Page 94 of 99

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



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/10/10
 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

*MTT
4/10/10*

Total 1697.1

Average 106.1

Home of the

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): 10-2071

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
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	
Nitrobenzene	40	40.128	100	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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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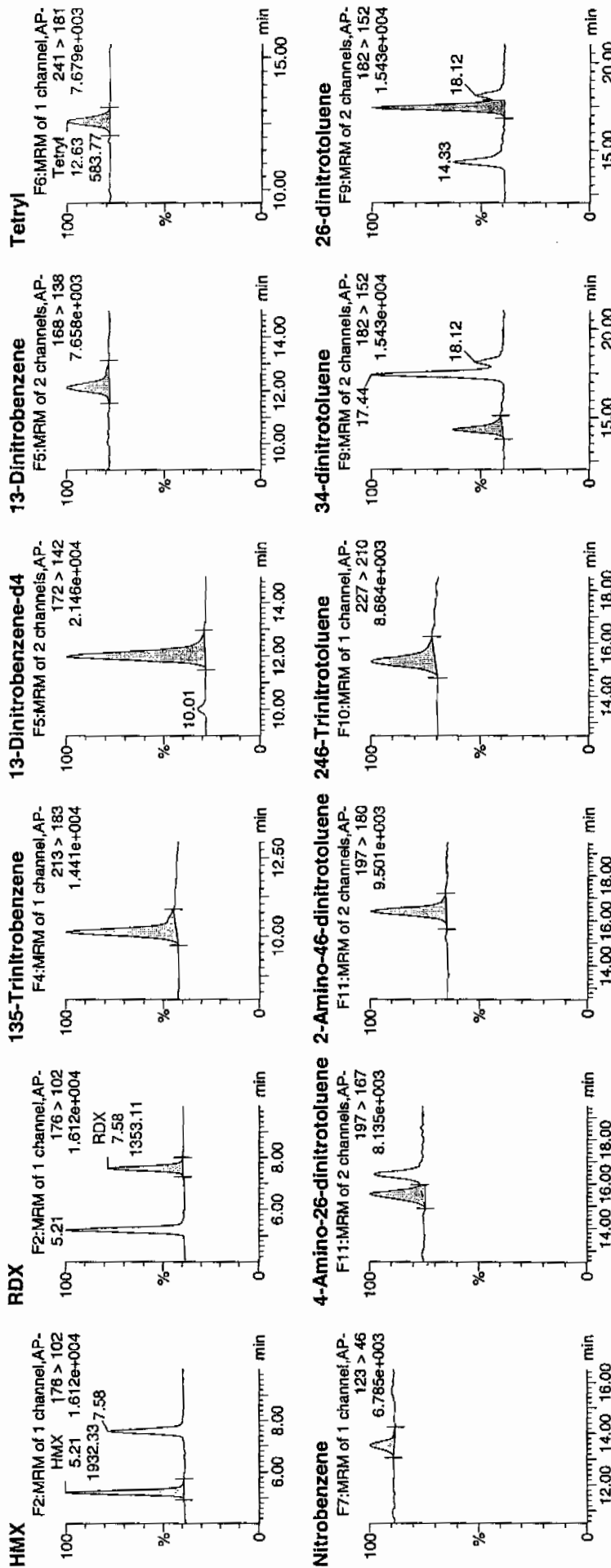
Date: 10-Apr-2010

Time: 09:29:16

ID: WXX100408-08CRI

Vial: 1:1,C

4/10/10



4/10/10

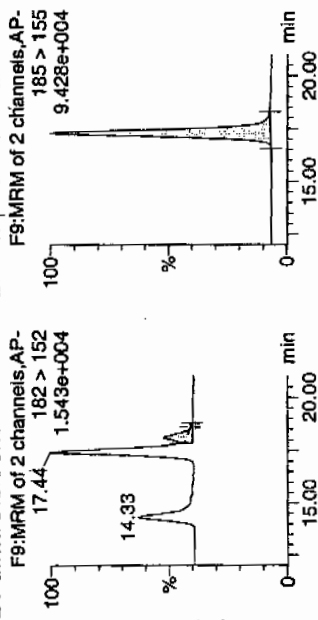
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

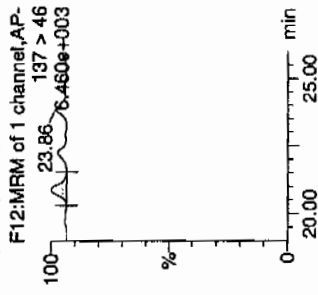
Printed: Sat Apr 10 11:42:30 2010, Page 98 of 99

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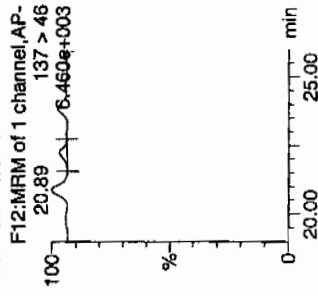
24-dinitrotoluene



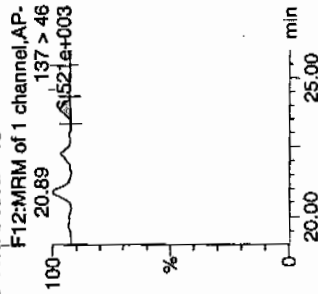
2-Nitrotoluene



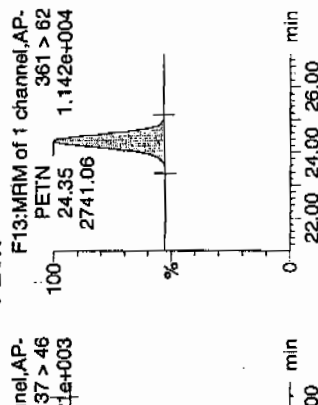
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flag	Mod Date	Mod Time	% Rec	% Dev	S/N
WXX100408-08CRI	HMX	176 > 102	5.21	1932.331	6014.345	1932.331	160.644	bb	10-Apr-10	11:36:54	50.2917	125.7	25.7
WXX100408-08CRI	RDX	176 > 102	7.58	1353.113	6014.345	1353.113	112.490	bb	10-Apr-10	11:36:54	46.1620	115.4	15.4
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.14	2379.034	6014.345	2379.034	197.780	bb	10-Apr-10	11:36:54	46.8301	117.1	17.1
WXX100408-08CRI	13-Dinitrobenzene	172 > 142	11.97	6014.345	6014.345	6014.345	6014.345	bb	10-Apr-10	11:36:54	462.7808	92.6	-7.4
WXX100408-08CRI	13-Dinitrobenzene	188 > 138	12.14	673.543	6014.345	673.543	55.995	bb	10-Apr-10	11:36:54	43.4785	108.7	8.7
WXX100408-08CRI	Tetryl	241 > 181	12.63	583.766	6014.345	583.766	48.531	bb	10-Apr-10	11:36:54	47.1373	117.8	17.8
WXX100408-08CRI	Nitrobenzene	123 > 46	13.53	290.097	6014.345	290.097	24.117	bb	10-Apr-10	11:36:54	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	10-Apr-10	11:36:54	40.7497	101.9	1.9
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.30	1205.129	36300.254	1205.129	16.599	bb	10-Apr-10	11:36:54	43.1386	107.8	7.8
WXX100408-08CRI	34-dinitrotoluene	182 > 152	14.33	1473.642	36300.254	1473.642	20.298	bb	10-Apr-10	11:36:54	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	11:36:54	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	11:36:54	40.4650	101.2	1.2
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.26	36300.254	36300.254	36300.254	36300.254	bb	10-Apr-10	11:36:54	459.7461	91.9	-8.1
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.89	206.536	36300.254	206.536	2.845	bb	10-Apr-10	11:36:54	37.0606	92.7	-7.3
WXX100408-08CRI	4-Nitrotoluene	137 > 46	22.25	102.871	36300.254	102.871	1.417	bb	10-Apr-10	11:36:54	36.4593	91.1	-8.9
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.85	121.594	36300.254	121.594	1.675	bb	10-Apr-10	11:36:54	30.6762	76.7	-23.3
WXX100408-08CRI	PETN	361 > 62	24.35	2741.064	36300.254	2741.064	37.755	bb	10-Apr-10	11:36:54	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

MTF
4/10/10

Total 1681.8

Home 04/10/10

Average

105.1

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): 10-2071

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
o-Nitrotoluene	600	535.244	89	
p-Nitrotoluene	600	572.407	95	
1,3,5-Trinitrobenzene	600	636.106	106	
1,3-Dinitrobenzene-d4	500	371.009	74	*
2,4,6-Trinitrotoluene	600	748.482	125	*
2,4-Dinitrotoluene	600	589.616	98	
2,6-Dinitrotoluene	600	594.847	99	
2,6-Dinitrotoluene-d3	500	366.196	73	*
2-Amino-4,6-dinitrotoluene	600	651.106	109	
3,4-Dinitrotoluene	300	290.529	97	
4-Amino-2,6-dinitrotoluene	600	623.686	104	
HMX	600	695.105	116	
Nitrobenzene	600	579.84	97	
PETN	600	689.507	115	
RDX	600	723.103	121	*
Tetryl	600	762.469	127	*
m-Dinitrobenzene	600	619.292	103	
m-Nitrotoluene	600	493.304	82	

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

Time: 14:53:57

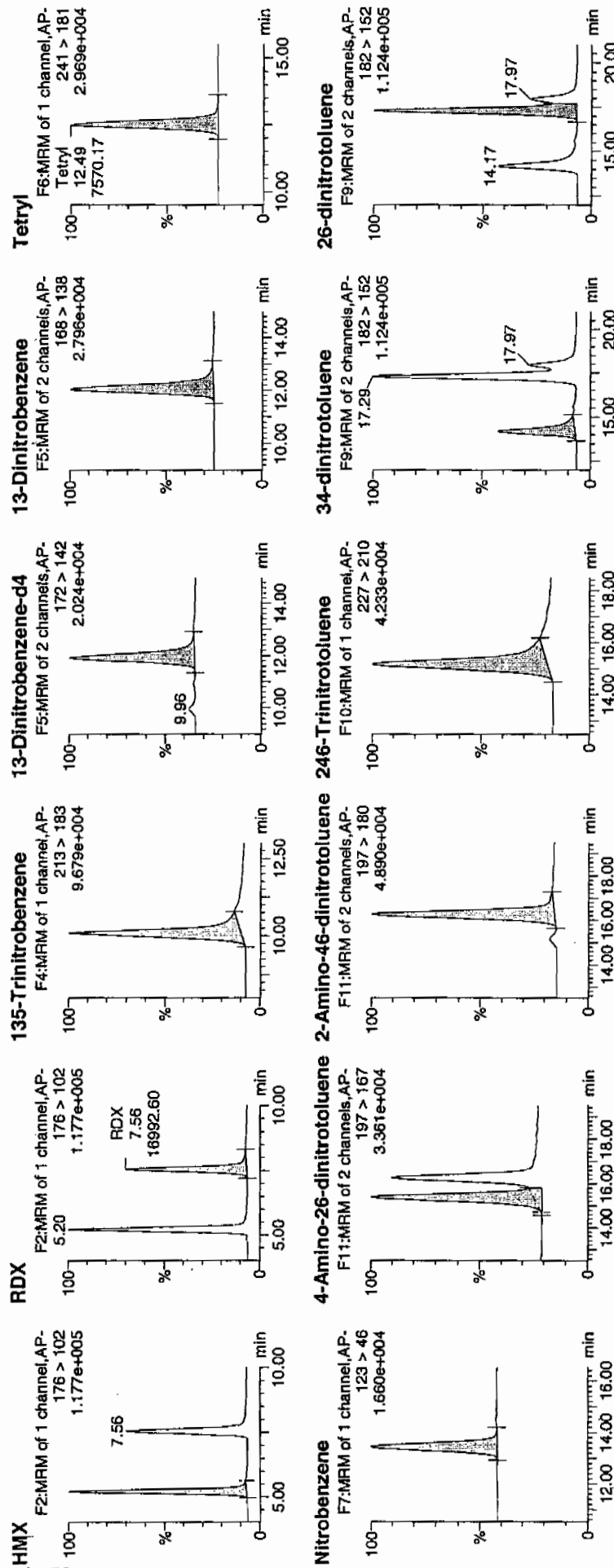
ID: WXX100410-07CCV

Vial: 1:1,B

11/1/10

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of 573



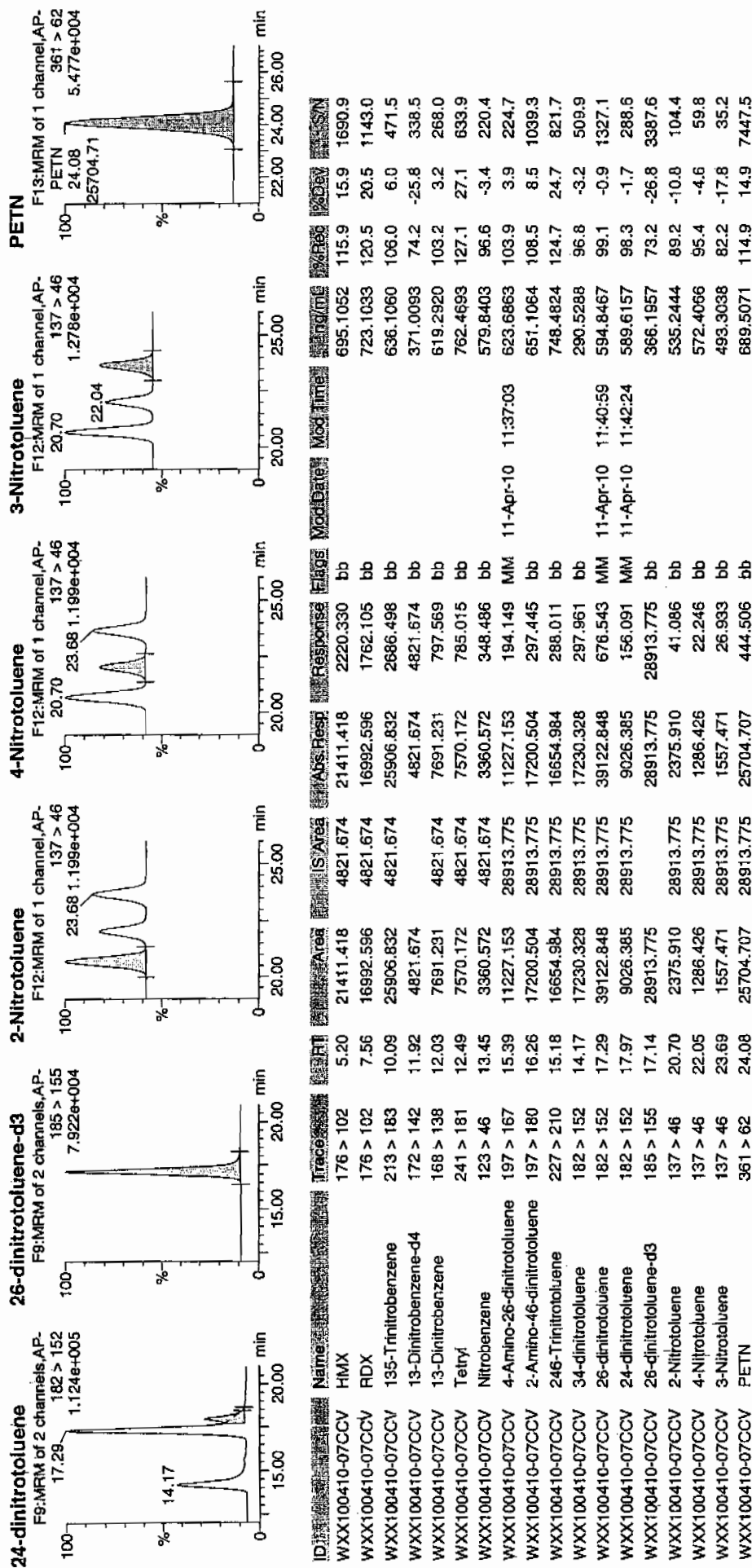
4/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 22 of 97

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



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

*not
4/11/10*

Total 1682.3

Home - 4/11/10

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCR1

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

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\EXP0408087a

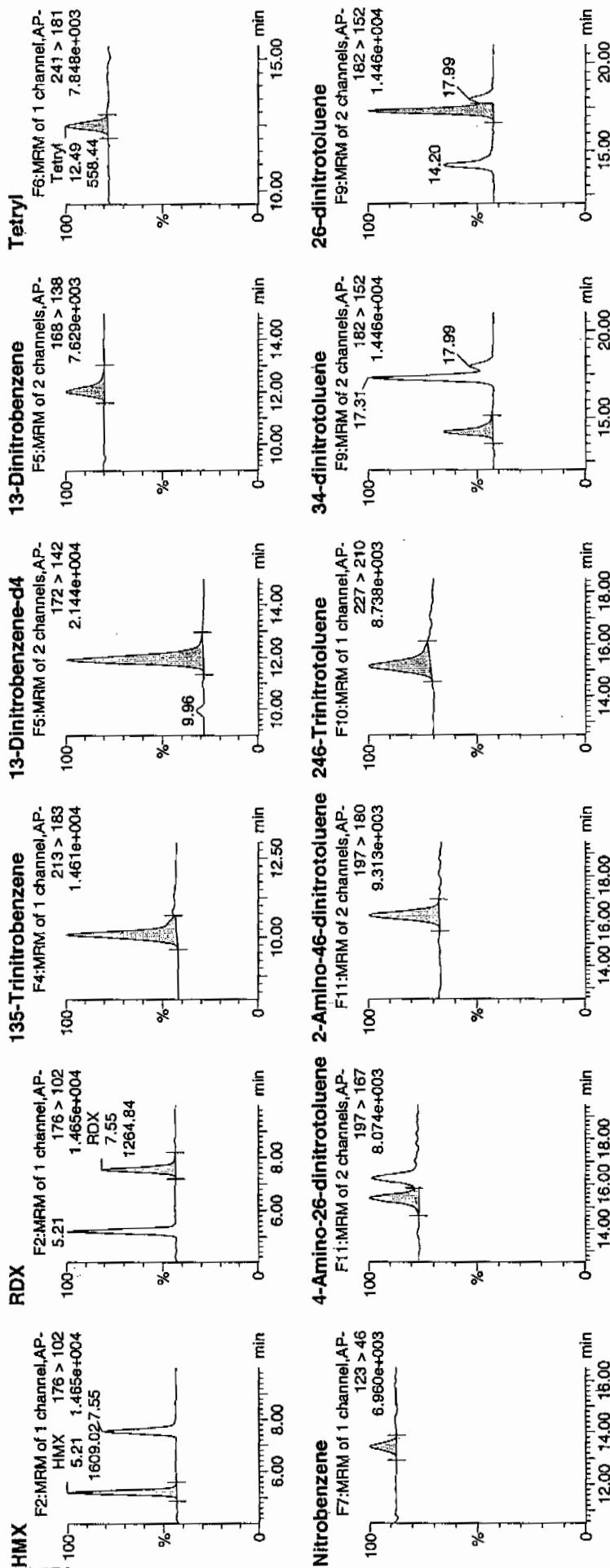
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Time: 15:52:55

Page ID: WXX100410-08CRI

Vial: 1:1,C

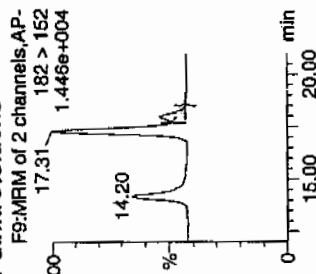
10/11/10



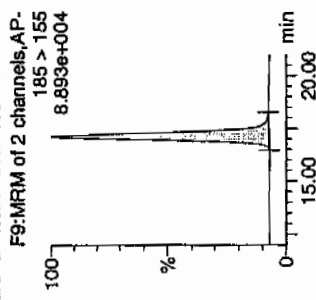
10/11/10

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

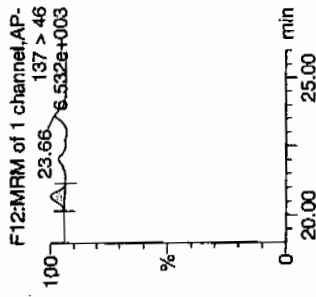
2,4-dinitrotoluene



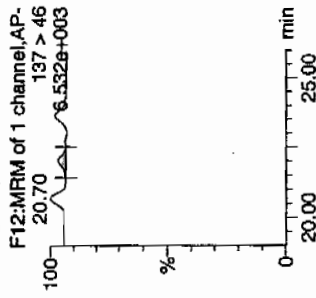
26-dinitrotoluene-d3



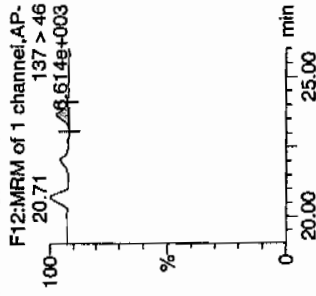
2-Nitrotoluene



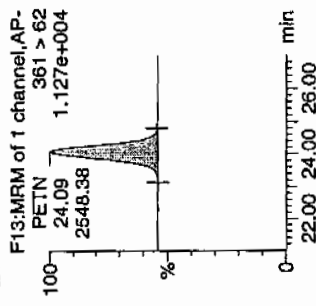
4-Nitrotoluene



3-Nitrotoluene



PETN



Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
HMx	176 > 102	5.21	1609.024	5780.081	1609.024	139.187	bb			43.5744	108.9	8.9	133.4
RDX	176 > 102	7.55	1264.841	5780.081	1264.841	109.414	bb			44.8994	112.2	12.2	89.0
135-Trinitrobenzene	213 > 183	10.09	2425.127	5780.081	2425.127	209.783	bd			49.6722	124.2	24.2	294.1
13-Dinitrobenzene-d4	172 > 142	11.92	5780.081		5780.081	5780.081	bb			444.7551	89.0	-11.0	1113.8
13-Dinitrobenzene	168 > 138	12.03	597.128	5780.081	597.128	51.654	bb			40.1080	100.3	0.3	57.3
Tetryl	241 > 181	12.49	558.444	5780.081	558.444	48.308	bb			46.9202	117.3	17.3	42.1
Nitrobenzene	123 > 46	13.45	289.821	5780.081	289.821	25.071	bb			41.7147	104.3	4.3	22.9
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
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
246-Trinitrotoluene	227 > 210	15.17	1227.224	33243.383	1227.224	18.458	bb			47.9690	119.9	19.9	91.5
34-dinitrotoluene	182 > 152	14.20	1370.500	33243.383	1370.500	20.613	bb			20.0990	100.5	0.5	67.1
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
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
26-dinitrotoluene-d3	185 > 155	17.13	33243.383		33243.383	33243.383	bb			421.0306	84.2	-15.8	1433.9
2-Nitrotoluene	137 > 46	20.70	179.806	33243.383	179.806	2.704	bb			35.2311	88.1	-11.9	47.3
4-Nitrotoluene	137 > 46	22.06	88.380	33243.383	88.380	1.329	bb			34.2037	85.5	-14.5	23.4
3-Nitrotoluene	137 > 46	23.66	135.222	33243.383	135.222	2.034	bb			37.2513	93.1	-6.9	20.4
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

Handwritten: 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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408098a

Analysis Date: 10-APR-10 21:17

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	603.626	101	
1,3-Dinitrobenzene-d4	500	428.998	86	
2,4,6-Trinitrotoluene	600	755.113	126	*
2,4-Dinitrotoluene	600	601.811	100	
2,6-Dinitrotoluene	600	602.552	100	
2,6-Dinitrotoluene-d3	500	393.84	79	*
2-Amino-4,6-dinitrotoluene	600	749.422	125	*
3,4-Dinitrotoluene	300	310.007	103	
4-Amino-2,6-dinitrotoluene	600	634.972	106	
HMX	600	661.858	110	
Nitrobenzene	600	525.792	88	
PETN	600	688.502	115	
RDX	600	680.282	113	
Tetryl	600	768.016	128	*
m-Dinitrobenzene	600	586.468	98	
m-Nitrotoluene	600	477.054	80	*
o-Nitrotoluene	600	525.095	88	
p-Nitrotoluene	600	585.867	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\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408098a

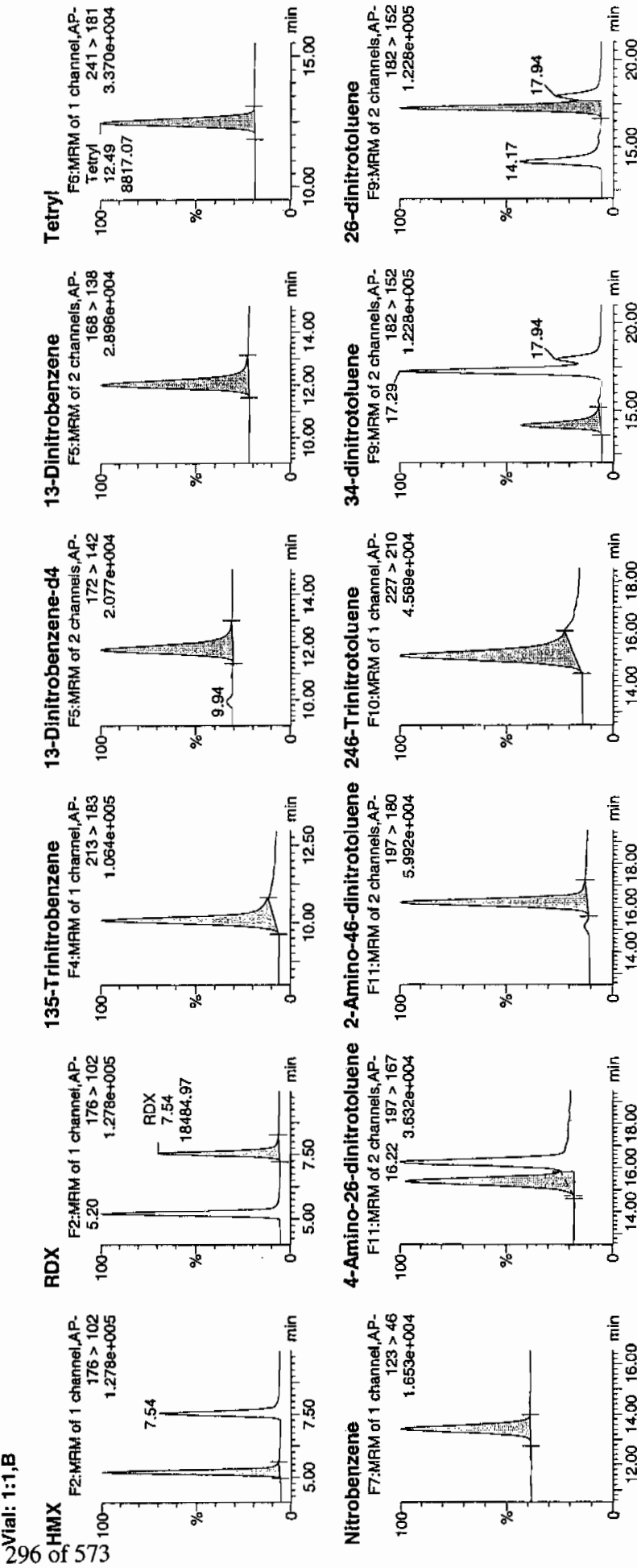
Date: 10-Apr-2010

Time: 21:17:19

ID: WXX100410-07CCV

Vial: 1:1,B

4/11/10



4/11/10

Quantify Sample Report

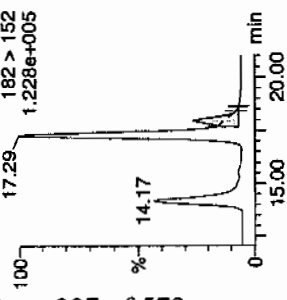
GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 48 of 97

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

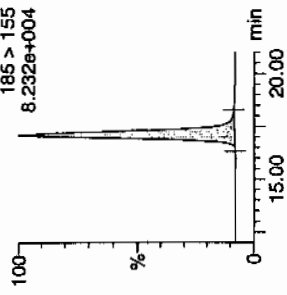
24-dinitrotoluene

F9:MFM of 2 channels, AP-
182 > 152
1.228e+005



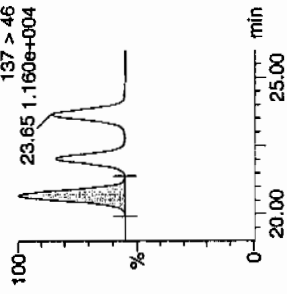
26-dinitrotoluene-d3

F8:MFM of 2 channels, AP-
185 > 155
8.232e+004



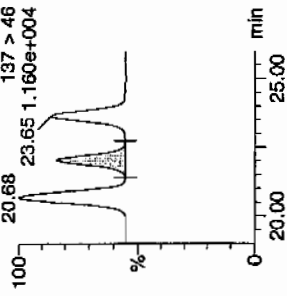
2-Nitrotoluene

F12:MFM of 1 channel, AP-
137 > 46
23.65 1.160e+004



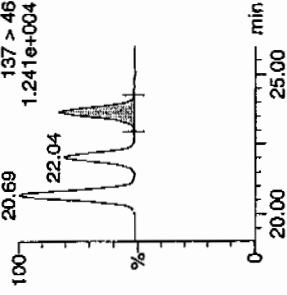
4-Nitrotoluene

F12:MFM of 1 channel, AP-
137 > 46
20.68 23.65 1.160e+004



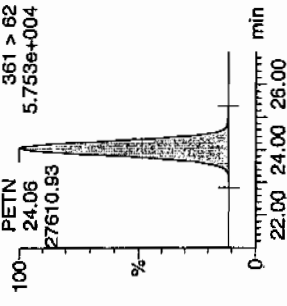
3-Nitrotoluene

F12:MFM of 1 channel, AP-
137 > 46
20.69 22.04 1.241e+004



PETN

F13:MFM of 1 channel, AP-
361 > 62
24.06 27.610.93 5.753e+004



ID	Name	Trace	RT	Area	ISArea	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	Req	Acq	SIN
WXX100410-07CCV	HMV	176 > 102	5.20	23573.832	5575.298	23573.832	2114.132	bb			661.8583	110.3	1852.1
WXX100410-07CCV	RDX	176 > 102	7.54	18484.973	5575.298	18484.973	1657.757	bb			680.2824	113.4	1116.8
WXX100410-07CCV	135-Trinitrobenzene	213 > 183	10.06	28426.451	5575.298	28426.451	2549.321	bb			603.6255	100.6	1655.4
WXX100410-07CCV	13-Dinitrobenzene-d4	172 > 142	11.90	5575.298		5575.298	5575.298	bb			428.9978	85.8	615.5
WXX100410-07CCV	13-Dinitrobenzene	168 > 138	12.04	8422.001	5575.298	8422.001	755.296	bb			586.4685	97.7	513.2
WXX100410-07CCV	Tetryl	241 > 181	12.49	8817.065	5575.298	8817.065	790.726	bb			768.0163	128.0	546.7
WXX100410-07CCV	Nitrobenzene	123 > 46	13.41	3523.622	5575.298	3523.622	316.003	bb			525.7923	87.6	206.9
WXX100410-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.36	12293.203	31096.508	12293.203	197.662	MM	11-Apr-10	11:37:28	634.9723	105.8	266.4
WXX100410-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.22	21292.291	31096.508	21292.291	342.358	bb			749.4219	124.9	878.5
WXX100410-07CCV	246-Trinitrotoluene	227 > 210	15.14	18070.973	31096.508	18070.973	290.563	bb			755.1133	125.9	371.2
WXX100410-07CCV	34-dinitrotoluene	182 > 152	14.17	19773.480	31096.508	19773.480	317.937	bb			310.0073	103.3	497.1
WXX100410-07CCV	26-dinitrotoluene	182 > 152	17.29	42621.277	31096.508	42621.277	685.306	MM	11-Apr-10	11:40:14	602.5515	100.4	1250.3
WXX100410-07CCV	24-dinitrotoluene	182 > 152	17.94	9908.590	31096.508	9908.590	159.320	MM	11-Apr-10	11:43:05	601.8111	100.3	262.4
WXX100410-07CCV	26-dinitrotoluene-d3	185 > 155	17.11	31096.508		31096.508	31096.508	bb			393.8402	78.8	2049.1
WXX100410-07CCV	2-Nitrotoluene	137 > 46	20.68	2506.817	31096.508	2506.817	40.307	bb			525.0951	87.5	356.2
WXX100410-07CCV	4-Nitrotoluene	137 > 46	22.04	1416.075	31096.508	1416.075	22.769	bb			585.8673	97.6	226.3
WXX100410-07CCV	3-Nitrotoluene	137 > 46	23.66	1619.868	31096.508	1619.868	26.046	bb			477.0537	79.5	66.5
WXX100410-07CCV	PETN	361 > 62	24.06	27610.934	31096.508	27610.934	443.956	bb			688.5018	114.8	2179.7

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/10/10
 Time of Injection: 2117
 Standard Number: WXX100410-07CCV
 Data File: EXP0408098a

HMX	110.3
RDX	113.4
135-TNB	100.6
13-DNB	97.7
Tetryl	128.0
Nitrobenzene	87.6
4A-26-DNT	105.8
2A-46-DNT	124.9
246-TNT	125.9
34-DNT(surr)	103.3
26-DNT	100.4
24-DNT	100.3
2-NT	87.5
4-NT	97.6
3-NT	79.5
PETN	114.8

1107
4/11/10

Total 1677.6

Handwritten: 04/11/10

Average 104.9

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408100a

Analysis Date: 10-APR-10 22:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	40	41.252	103	
2,6-Dinitrotoluene-d3	500	413.828	83	
2-Amino-4,6-dinitrotoluene	40	45.114	113	
3,4-Dinitrotoluene	20	20.385	102	
4-Amino-2,6-dinitrotoluene	40	38.377	96	
HMX	40	45.045	113	
Nitrobenzene	40	39.471	99	
PETN	40	52.652	132	*
RDX	40	41.618	104	
Tetryl	40	46.813	117	
m-Dinitrobenzene	40	40.978	102	
m-Nitrotoluene	40	44.372	111	
o-Nitrotoluene	40	34.205	86	
p-Nitrotoluene	40	43.836	110	
1,3,5-Trinitrobenzene	40	49.218	123	
1,3-Dinitrobenzene-d4	500	454.205	91	
2,4,6-Trinitrotoluene	40	50.277	126	
2,4-Dinitrotoluene	40	44.306	111	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408100a

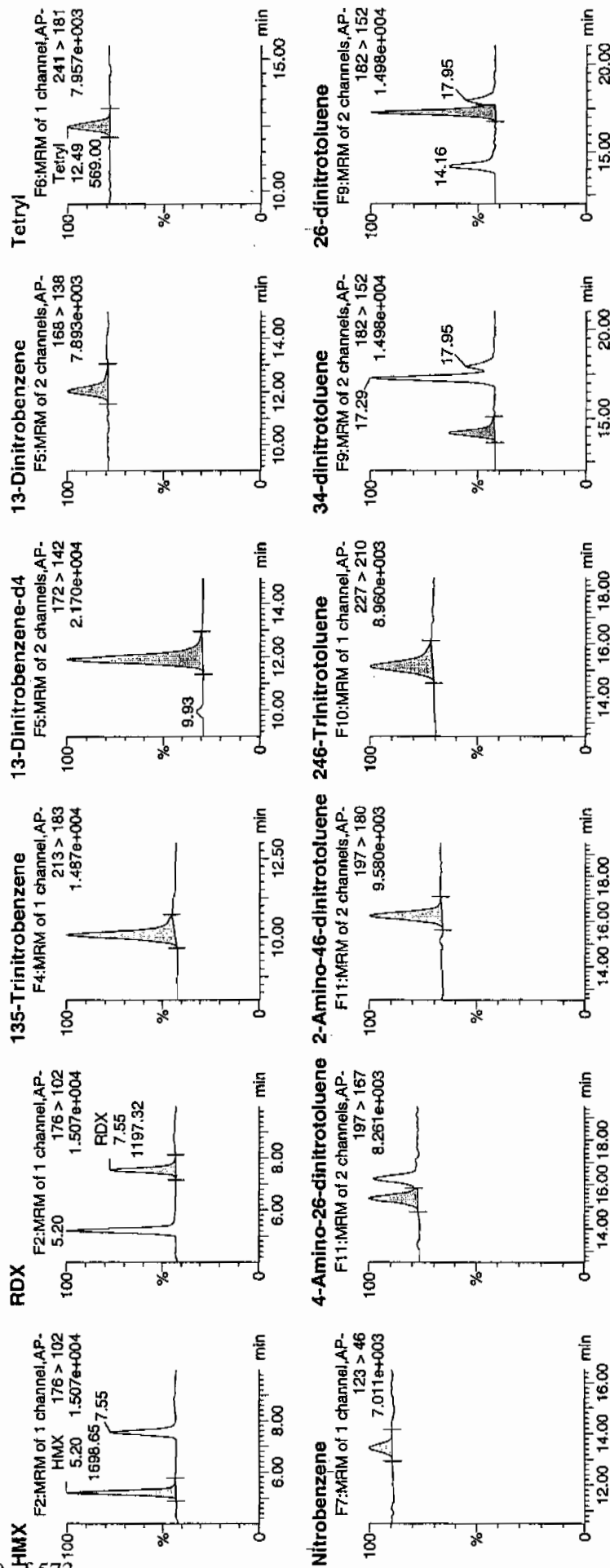
Date: 10-Apr-2010

Time: 22:16:22

ID: WXX100410-08CRI

Vial: 1:1,C

10/11/10



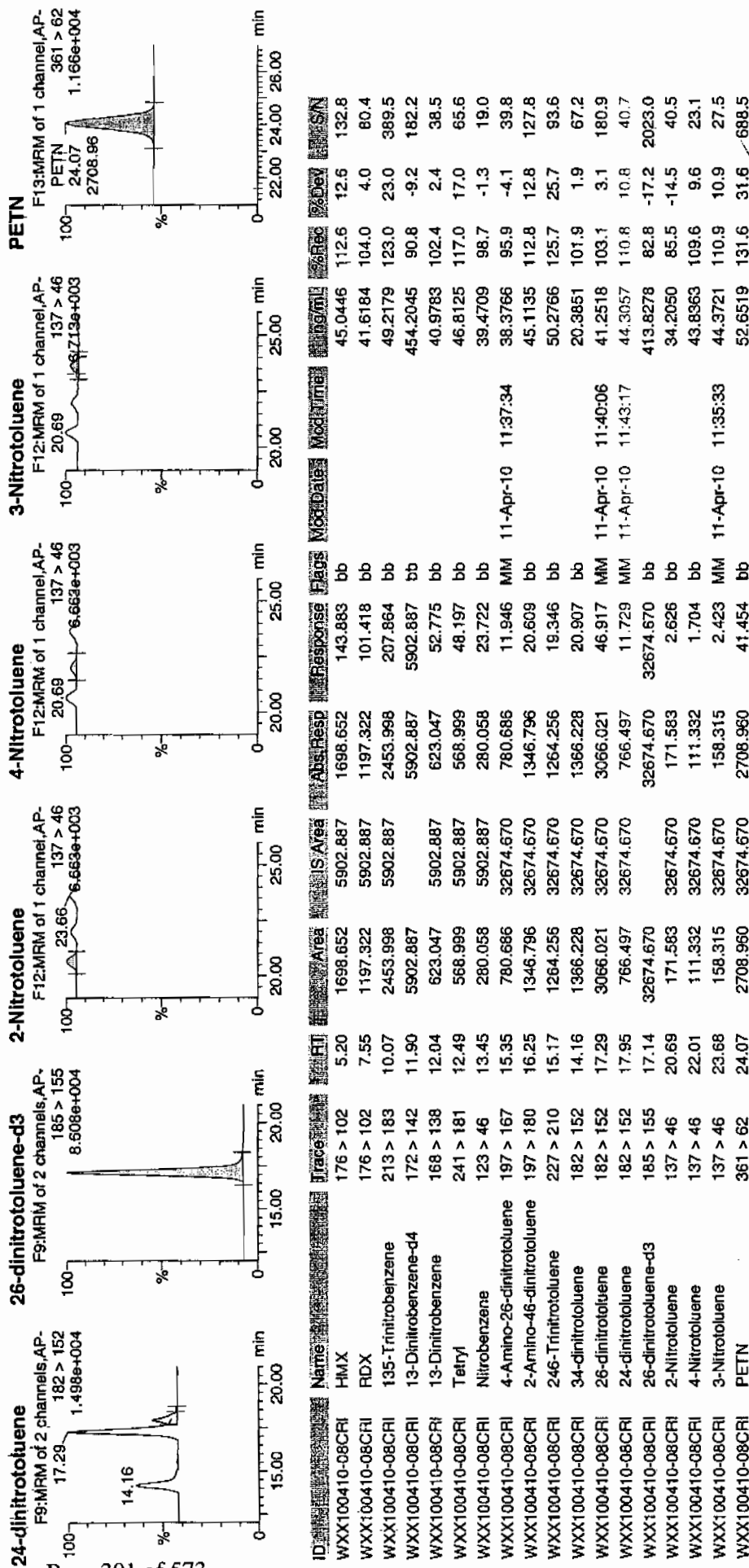
10/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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

Printed: Sun Apr 11 11:47:08 2010, Page 52 of 97



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/10/10
 Time of Injection 2216
 Standard Number WXX100410-08CRI
 Data File EXP0408100a

HMX	112.6
RDX	104.0
135-TNB	123.0
13-DNB	102.4
Tetryl	117.0
Nitrobenzene	98.7
4A-26-DNT	95.9
2A-46-DNT	112.8
246-TNT	125.7
34-DNT(surr)	101.9
26-DNT	103.1
24-DNT	110.8
2-NT	85.5
4-NT	109.6
3-NT	110.9
PETN	131.6

NOT
4/10/10

Total 1745.5

Average 109.1

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408107a

Analysis Date: 11-APR-10 01:42

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	600	646.193	108	
HMX	600	717.969	120	
Nitrobenzene	600	555.155	93	
PETN	600	737.11	123	*
RDX	600	723.373	121	*
Tetryl	600	757.322	126	*
m-Dinitrobenzene	600	592.316	99	
m-Nitrotoluene	600	478.023	80	*
o-Nitrotoluene	600	588.163	98	
p-Nitrotoluene	600	547.16	91	
1,3,5-Trinitrobenzene	600	611.107	102	
1,3-Dinitrobenzene-d4	500	422.479	84	
2,4,6-Trinitrotoluene	600	775.43	129	*
2,4-Dinitrotoluene	600	578.962	96	
2,6-Dinitrotoluene	600	615.772	103	
2,6-Dinitrotoluene-d3	500	395.737	79	*
2-Amino-4,6-dinitrotoluene	600	706.692	118	
3,4-Dinitrotoluene	300	350.467	117	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 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\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408107a

Date: 11-Apr-2010

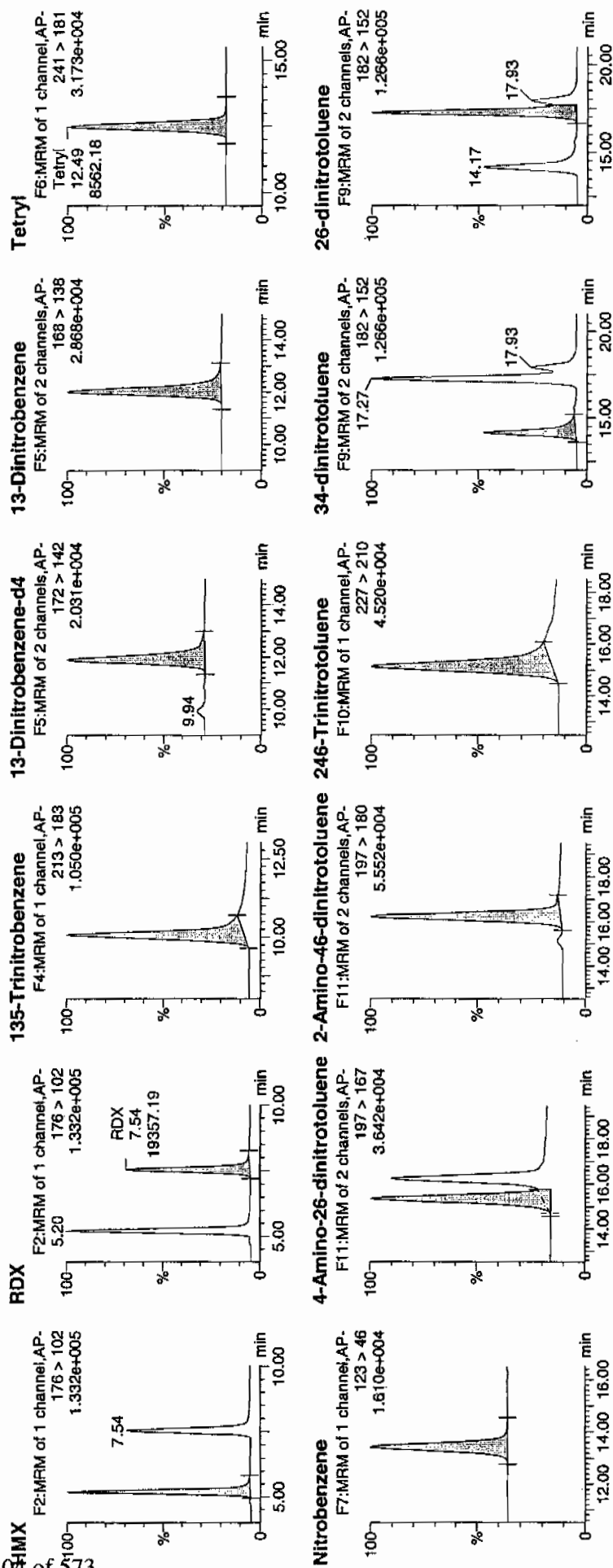
Time: 01:42:52

ID: WXX100410-07CCV

Vial: 1:1,B

10/11/10

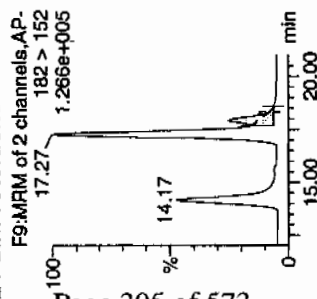
30 of 573



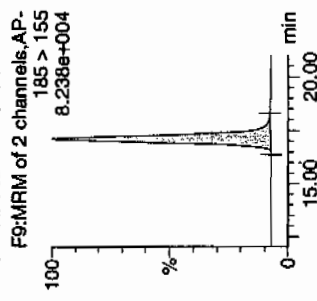
Amw
04/11/10

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

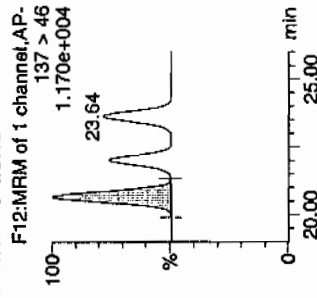
24-dinitrotoluene



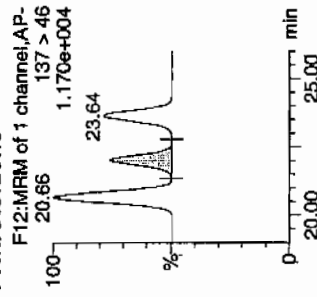
26-dinitrotoluene-d3



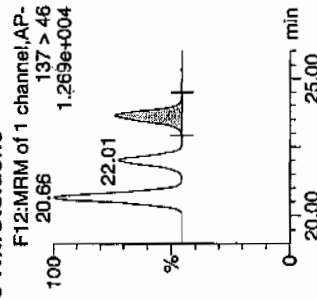
2-Nitrotoluene



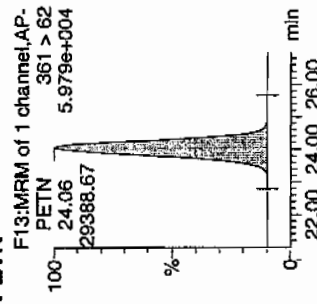
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (mg/ml)	Peak Seq	% Dev	S/N
WXX100410-07CCV	HMX	176 > 102	5.20	25183.777	5490.582	25183.777	2293.361	db	717.9685	119.7	19.7	2346.3		
WXX100410-07CCV	RDX	176 > 102	7.54	19357.186	5490.582	19357.186	1762.763	bb	723.3730	120.6	20.6	1583.2		
WXX100410-07CCV	135-Trinitrobenzene	213 > 183	10.07	28341.465	5490.582	28341.465	2580.916	bb	611.1066	101.9	1.9	1403.4		
WXX100410-07CCV	13-Dinitrobenzene-d4	172 > 142	11.89	5490.582		5490.582	5490.582	bb	422.4792	84.5	-15.5	181.9		
WXX100410-07CCV	13-Dinitrobenzene	168 > 138	12.03	8376.726	5490.582	8376.726	762.827	bb	592.3159	98.7	-1.3	560.4		
WXX100410-07CCV	Tetryl	241 > 181	12.49	8562.182	5490.582	8562.182	779.715	bb	757.3220	126.2	26.2	490.3		
WXX100410-07CCV	Nitrobenzene	123 > 46	13.41	3663.865	5490.582	3663.865	333.650	bb	555.1548	92.5	-7.5	387.7		
WXX100410-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.36	12570.697	31246.273	12570.697	201.155	MM	646.1934	107.7	7.7	548.0		
WXX100410-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.23	20174.973	31246.273	20174.973	322.838	bb	706.6922	117.8	17.8	945.1		
WXX100410-07CCV	246-Trinitrotoluene	227 > 210	15.14	18646.559	31246.273	18646.559	298.381	bb	775.4301	129.2	29.2	662.0		
WXX100410-07CCV	34-dinitrotoluene	182 > 152	14.17	22461.801	31246.273	22461.801	359.432	bb	350.4667	116.8	16.8	352.0		
WXX100410-07CCV	26-dinitrotoluene	182 > 152	17.27	43766.207	31246.273	43766.207	700.343	MM	615.7722	102.6	2.8	787.9		
WXX100410-07CCV	24-dinitrotoluene	182 > 152	17.93	9578.303	31246.273	9578.303	153.271	MM	578.9623	96.5	-3.5	162.2		
WXX100410-07CCV	26-dinitrotoluene-d3	185 > 155	17.12	31246.273		31246.273	31246.273	bb	395.7370	79.1	-20.9	3090.2		
WXX100410-07CCV	2-Nitrotoluene	137 > 46	20.66	2821.429	31246.273	2821.429	45.148	bb	588.1632	98.0	-2.0	617.4		
WXX100410-07CCV	4-Nitrotoluene	137 > 46	22.01	1328.886	31246.273	1328.886	21.265	bb	547.1598	91.2	-8.8	320.2		
WXX100410-07CCV	3-Nitrotoluene	137 > 46	23.65	1630.978	31246.273	1630.978	26.099	bb	478.0234	79.7	-20.3	190.4		
WXX100410-07CCV	PETN	361 > 62	24.06	29388.670	31246.273	29388.670	470.275	bb	737.1103	122.9	22.9	9396.1		

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/11/10
 Time of Injection: 0142
 Standard Number: WXX100410-07CCV
 Data File: EXP0408107a

HMX	119.7
RDX	120.6
135-TNB	101.9
13-DNB	98.7
Tetryl	126.2
Nitrobenzene	92.5
4A-26-DNT	107.7
2A-46-DNT	117.8
246-TNT	129.2
34-DNT(surr)	116.8
26-DNT	102.6
24-DNT	96.5
2-NT	98.0
4-NT	91.2
3-NT	79.7
PETN	122.9

*MTT
4/11/10*

Total 1722.0

WMM 04/11/10

Average

107.6

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408109a

Analysis Date: 11-APR-10 02:41

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	40	38.857	97	
o-Nitrotoluene	40	38.013	95	
p-Nitrotoluene	40	43.648	109	
1,3,5-Trinitrobenzene	40	46.822	117	
1,3-Dinitrobenzene-d4	500	457.172	91	
2,4,6-Trinitrotoluene	40	50.631	127	
2,4-Dinitrotoluene	40	38.936	97	
2,6-Dinitrotoluene	40	40.782	102	
2,6-Dinitrotoluene-d3	500	438.501	88	
2-Amino-4,6-dinitrotoluene	40	41.564	104	
3,4-Dinitrotoluene	20	20.26	101	
4-Amino-2,6-dinitrotoluene	40	42.035	105	
HMX	40	48.764	122	
Nitrobenzene	40	38.239	96	
PETN	40	54.13	135	*
RDX	40	44.404	111	
Tetryl	40	55.433	139	*
m-Dinitrobenzene	40	41.871	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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Apr 11 11:47:08 2010, Page 69 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\EXP0408109a

Date: 11-Apr-2010

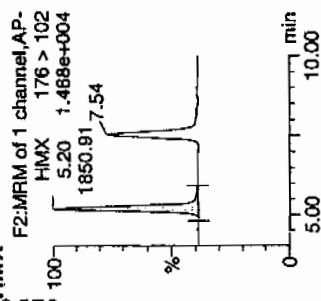
Time: 02:41:56

ID: WXX100410-08CRI

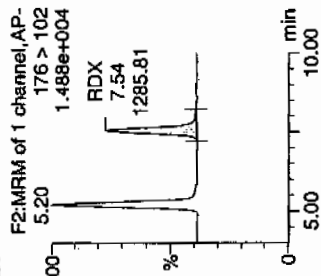
Vial: 1:1,C

100%
4/11/10

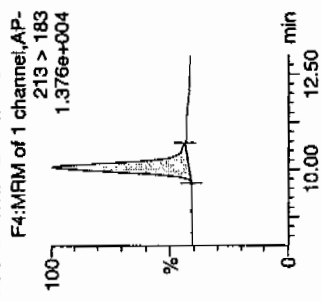
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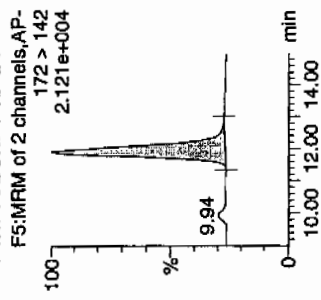
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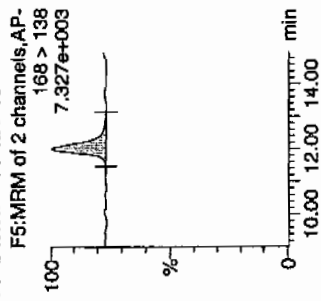
135-Trinitrobenzene



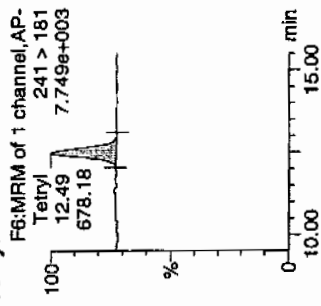
13-Dinitrobenzene-d4



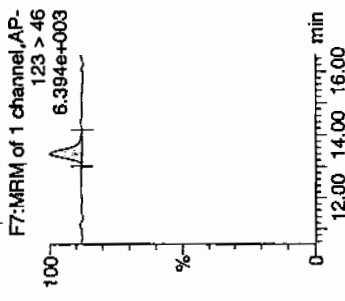
13-Dinitrobenzene



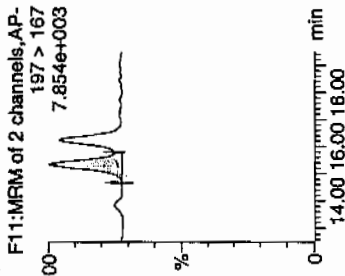
Tetryl



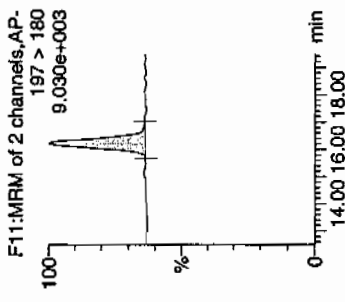
Nitrobenzene



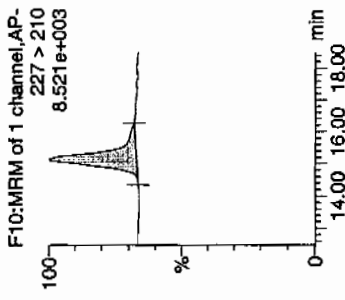
4-Amino-26-dinitrotoluene



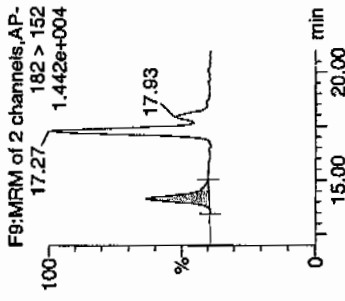
2-Amino-46-dinitrotoluene



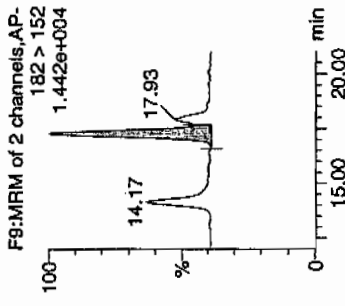
246-Trinitrotoluene



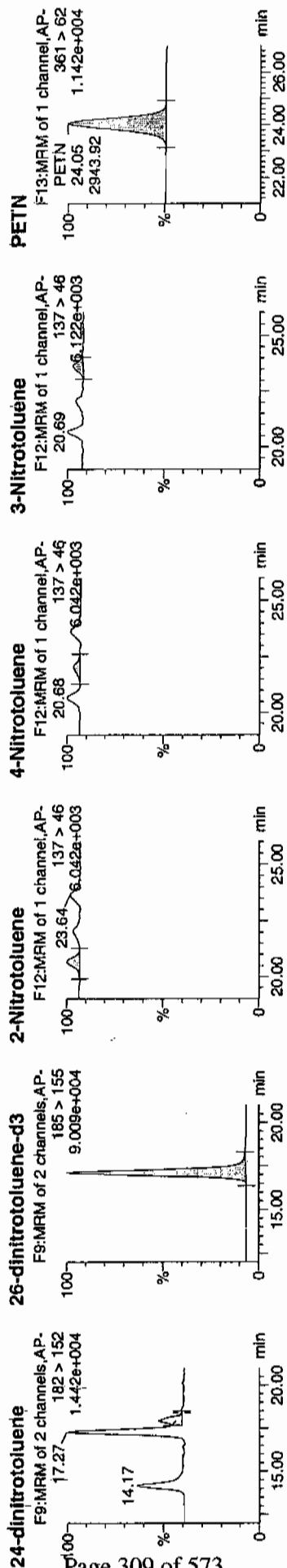
34-dinitrotoluene



26-dinitrotoluene



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



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	Rec	Day	SN
WXX100410-08CRI	HMX	176 > 102	5.20	1850.906	5941.449	1850.906	155.762	bb			48.7635	121.9	21.9	401.6
WXX100410-08CRI	RDX	176 > 102	7.54	1285.814	5941.449	1285.814	108.207	bb			44.4042	111.0	11.0	246.4
WXX100410-08CRI	135-Trinitrobenzene	213 > 183	10.07	2349.771	5941.449	2349.771	197.744	bb			46.8216	117.1	17.1	266.4
WXX100410-08CRI	13-Dinitrobenzene-d4	172 > 142	11.92	5941.449	5941.449	5941.449	5941.449	bb			457.1717	91.4	-8.6	256.3
WXX100410-08CRI	13-Dinitrobenzene	168 > 138	12.00	640.779	5941.449	640.779	53.924	bb			41.8710	104.7	4.7	86.4
WXX100410-08CRI	Tetryl	241 > 181	12.49	678.176	5941.449	678.176	57.072	bb			55.4325	138.6	38.6	74.8
WXX100410-08CRI	Nitrobenzene	123 > 46	13.41	273.090	5941.449	273.090	22.982	bb			38.2390	95.6	-4.4	28.2
WXX100410-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.36	906.098	34622.781	906.098	13.085	MM	11-Apr-10	11:37:55	42.0353	105.1	5.1	37.1
WXX100410-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.23	1314.819	34622.781	1314.819	18.988	bb			41.5642	103.9	3.9	101.8
WXX100410-08CRI	246-Trinitrotoluene	227 > 210	15.14	1349.075	34622.781	1349.075	19.482	bb			50.6310	126.6	26.6	156.9
WXX100410-08CRI	34-dinitrotoluene	182 > 152	14.17	1438.829	34622.781	1438.829	20.779	bb			20.2604	101.3	1.3	88.8
WXX100410-08CRI	26-dinitrotoluene	182 > 152	17.27	3211.783	34622.781	3211.783	46.383	MM	11-Apr-10	11:39:49	40.7815	102.0	2.0	227.2
WXX100410-08CRI	24-dinitrotoluene	182 > 152	17.93	713.761	34622.781	713.761	10.308	MM	11-Apr-10	11:43:46	38.9360	97.3	-2.7	46.1
WXX100410-08CRI	26-dinitrotoluene-d3	185 > 155	17.12	34622.781	34622.781	34622.781	34622.781	bb			438.5008	87.7	-12.3	2433.0
WXX100410-08CRI	2-Nitrotoluene	137 > 46	20.68	202.052	34622.781	202.052	2.918	bb			38.0126	95.0	-5.0	52.4
WXX100410-08CRI	4-Nitrotoluene	137 > 46	22.07	117.463	34622.781	117.463	1.696	bb			43.6479	109.1	9.1	26.4
WXX100410-08CRI	3-Nitrotoluene	137 > 46	23.65	146.904	34622.781	146.904	2.121	bb			38.8572	97.1	-2.9	5.8
WXX100410-08CRI	PETN	361 > 62	24.05	2943.921	34622.781	2943.921	42.514	bb			54.1295	135.3	35.3	545.9

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/11/10
 Time of Injection 0241
 Standard Number WXX100410-08CRI
 Data File EXP0408109a

HMX	121.9
RDX	111.0
135-TNB	117.1
13-DNB	104.7
Tetryl	138.6
Nitrobenzene	95.6
4A-26-DNT	105.1
2A-46-DNT	103.9
246-TNT	126.6
34-DNT(surr)	101.3
26-DNT	102.0
24-DNT	97.3
2-NT	95.0
4-NT	109.1
3-NT	97.1
PETN	135.3

WAT
4/12/10

Total 1761.6

Average 110.1

from 04/12/10

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408120a

Analysis Date: 11-APR-10 08:06

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	598.182	100	
1,3-Dinitrobenzene-d4	500	448.765	90	
2,4,6-Trinitrotoluene	600	747.622	125	*
2,4-Dinitrotoluene	600	607.542	101	
2,6-Dinitrotoluene	600	606.591	101	
2,6-Dinitrotoluene-d3	500	430.552	86	
2-Amino-4,6-dinitrotoluene	600	716.087	119	
3,4-Dinitrotoluene	300	311.125	104	
4-Amino-2,6-dinitrotoluene	600	646.645	108	
HMX	600	706.32	118	
Nitrobenzene	600	540.216	90	
PETN	600	660.216	110	
RDX	600	721.735	120	*
Tetryl	600	700.31	117	
m-Dinitrobenzene	600	611.278	102	
m-Nitrotoluene	600	482.609	80	
o-Nitrotoluene	600	495.433	83	
p-Nitrotoluene	600	534.721	89	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408120a

Date: 11-Apr-2010

Time: 08:06:13

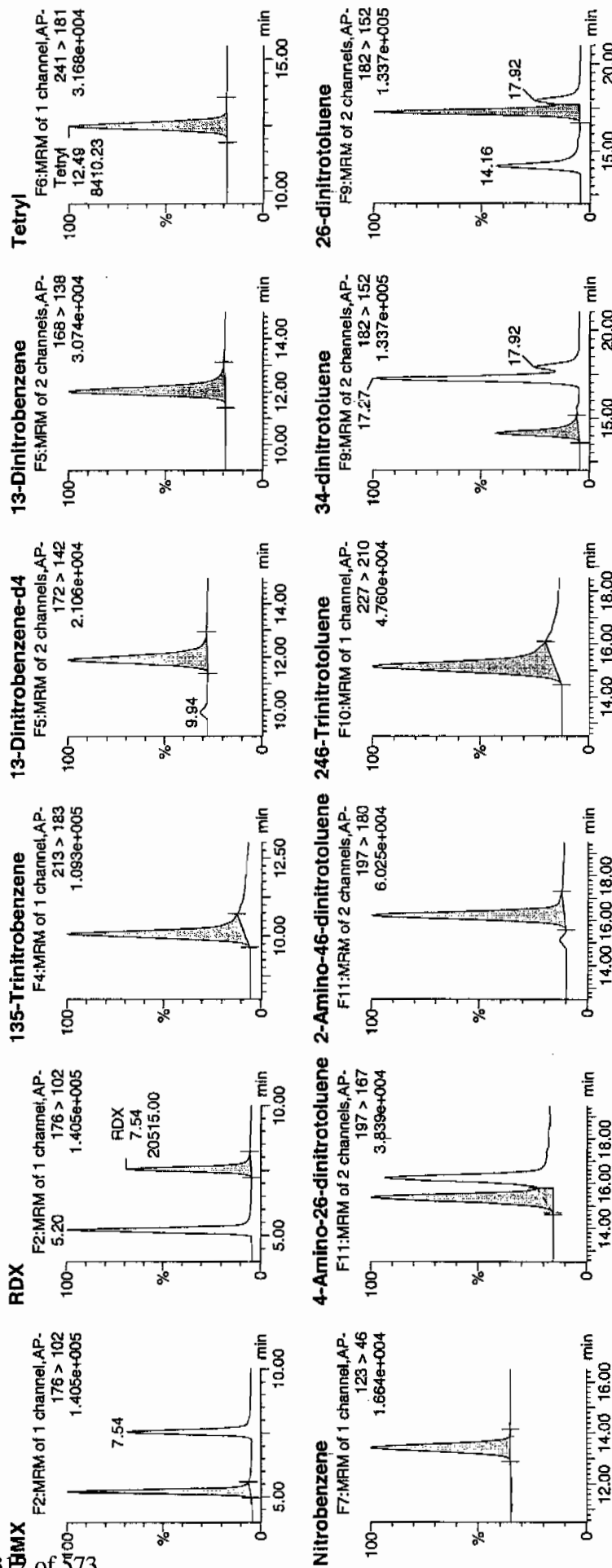
ID: WXX100410-07CCV

99/fail: 1:1,B

3

BMX

of 573



4/11/10

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

24-dinitrotoluene										26-dinitrotoluene-d3										2-Nitrotoluene										4-Nitrotoluene										3-Nitrotoluene										PETN																																																																																																			
F9:MFM of 2 channels,AP- 182 > 152 1.337e+005										F9:MFM of 2 channels,AP- 185 > 155 8.806e+004										F12:MFM of 1 channel,AP- 137 > 46 1.130e+004										F12:MFM of 1 channel,AP- 137 > 46 1.130e+004										F12:MFM of 1 channel,AP- 137 > 46 1.220e+004										F13:MFM of 1 channel,AP- 361 > 62 6.008e+004																																																																																																			
17.27 14.16										8.806										23.62										23.62										20.68										22.02																																																																																																			
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20.00										20.00										25.00										25.00										25.00										26.00																																																																																																			
min										min										min										min										min										min																																																																																																			
ID										Name										Trace										RT										Area										S Area										Abs Resp										Response										Flags										Mod Date										Mod Time										Conc										%Red										%Dev										S/N									
WXX100410-07CCV										HMx										176 > 102										5.20										26316.664										5832.194										26316.664										2256.155										bb																														706.3205										117.7										17.7										2918.5									
WXX100410-07CCV										RDX										176 > 102										7.54										20515.000										5832.194										20515.000										1758.772										bb																														721.7354										120.3										20.3										1980.9									
WXX100410-07CCV										135-Trinitrobenzene										213 > 183										10.07										29468.121										5832.194										29468.121										2526.332										bb																														598.1823										99.7										-0.3										2342.4									
WXX100410-07CCV										13-Dinitrobenzene-d4										172 > 142										11.90										5832.194										5832.194										5832.194										5832.194										bb																														448.7650										89.8										-10.2										600.3									
WXX100410-07CCV										13-Dinitrobenzene										168 > 138										12.03										9182.754										5832.194										9182.754										787.247										bb																														611.2776										101.9										1.9										630.0									
WXX100410-07CCV										Tetryl										241 > 181										12.49										8410.231										5832.194										8410.231										721.018										bb																														700.3102										116.7										16.7										730.6									
WXX100410-07CCV										Nitrobenzene										123 > 46										13.45										3787.096										5832.194										3787.096										324.672										bb																														540.2159										90.0										-10.0										464.2									
WXX100410-07CCV										4-Amino-26-dinitrotoluene										197 > 167										15.35										13686.177										33995.191										13686.177										201.296										MM										11-Apr-10										11:38:46										646.6451										107.8										7.8										243.2									
WXX100410-07CCV										2-Amino-46-dinitrotoluene										197 > 180										16.25										22241.670										33995.191										22241.670										327.130										bb																														716.0865										119.3										19.3										484.8									
WXX100410-07CCV										246-Trinitrotoluene										227 > 210										15.13										19559.494										33995.191										19559.494										287.680										bb																														747.6224										124.6										24.6										314.1									
WXX100410-07CCV										34-dinitrotoluene										182 > 152										14.16										21694.615										33995.191										21694.615										319.084										bb																														311.1250										103.7										3.7										630.7									
WXX100410-07CCV										26-dinitrotoluene										182 > 152										17.27										46906.645										33995.191										46906.645										689.901										MM										11-Apr-10										11:39:15										606.5914										101.1										1.1										1560.0									
WXX100410-07CCV										24-dinitrotoluene										182 > 152										17.92										10935.371										33995.191										10935.371										160.837										MM										11-Apr-10										11:44:49										607.5416										101.3										1.3										328.6									
WXX100410-07CCV										26-dinitrotoluene-d3										185 > 155										17.11										33995.191										33995.191										33995.191										33995.191										bb																														430.5523										86.1										-13.9										1418.2									
WXX100410-07CCV										2-Nitrotoluene										137 > 46										20.66										2585.682										33995.191										2585.682										38.030										bb																														495.4326										82.6										-17.4										487.3									
WXX100410-07CCV										4-Nitrotoluene										137 > 46										22.01										1412.927										33995.191										1412.927										20.781										bb																														534.7206										89.1										-10.9										282.9									
WXX100410-07CCV										3-Nitrotoluene										137 > 46										23.63										1791.488										33995.191										1791.488										26.349										bb																														482.6093										80.4										-19.6										114.0									
WXX100410-07CCV										PETN										361 > 62										24.04										29123.605										33995.191										29123.605										428.349										bb																														660.2156										110.0										10.0										3998.4									

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GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/11/10
 Time of Injection: 0806
 Standard Number: WXX100410-07CCV
 Data File: EXP0408120a

HMX	117.7
RDX	120.3
135-TNB	99.7
13-DNB	101.9
Tetryl	116.7
Nitrobenzene	90.0
4A-26-DNT	107.8
2A-46-DNT	119.3
246-TNT	124.6
34-DNT(surr)	103.7
26-DNT	101.1
24-DNT	101.3
2-NT	82.6
4-NT	89.1
3-NT	80.4
PETN	110.0

*MTT
4/11/10*

Total 1666.2

Average 104.1

NMM 04/10/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408122a

Analysis Date: 11-APR-10 09:05

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	43.065	108	
1,3-Dinitrobenzene-d4	500	498.79	100	
2,4,6-Trinitrotoluene	40	47.605	119	
2,4-Dinitrotoluene	40	41.387	103	
2,6-Dinitrotoluene	40	39.655	99	
2,6-Dinitrotoluene-d3	500	484.368	97	
2-Amino-4,6-dinitrotoluene	40	45.143	113	
3,4-Dinitrotoluene	20	19.345	97	
4-Amino-2,6-dinitrotoluene	40	38.12	95	
HMX	40	47.637	119	
Nitrobenzene	40	38.04	95	
PETN	40	46.767	117	
RDX	40	45.046	113	
Tetryl	40	46.369	116	
m-Dinitrobenzene	40	43.533	109	
m-Nitrotoluene	40	32.773	82	
o-Nitrotoluene	40	29.265	73	
p-Nitrotoluene	40	37.363	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\040810expA2.qld, Time: Sun Apr 11 11:45:05 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408122a

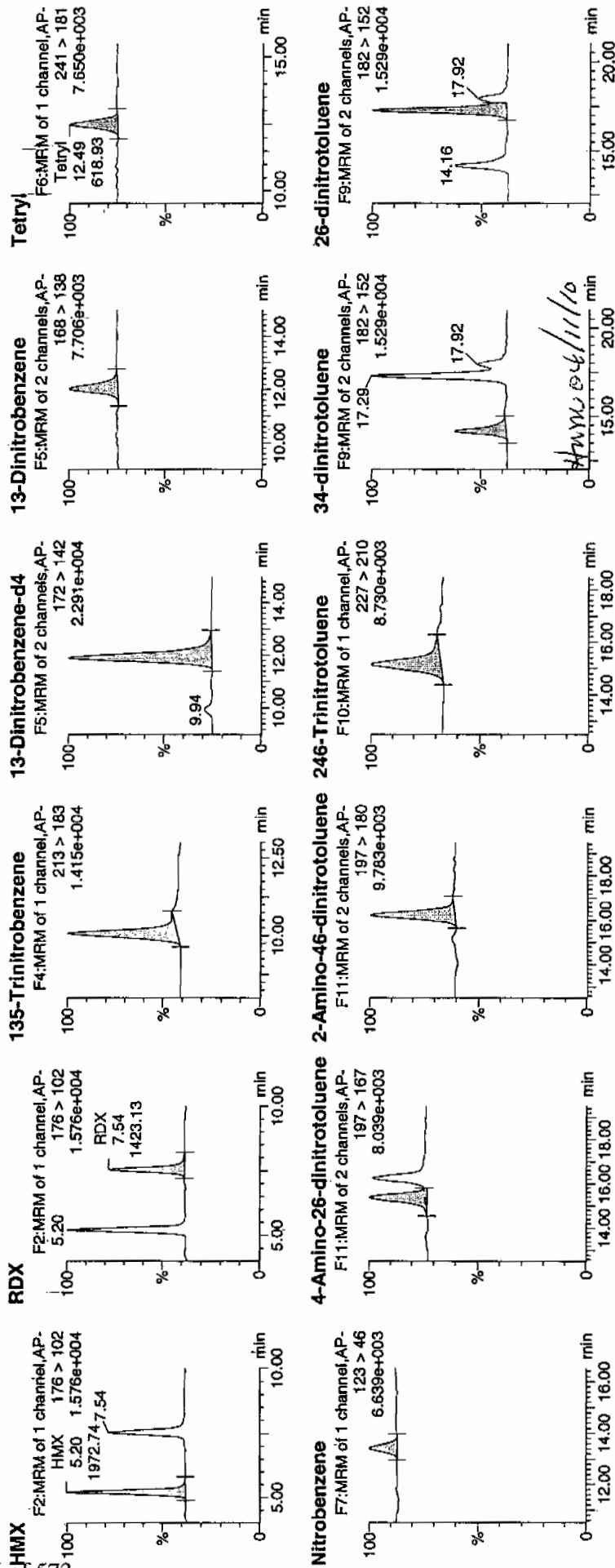
Date: 11-Apr-2010

Time: 09:05:16

ID: WXX100410-08CRI

Vial: 1:1,C

100%
4/11/10



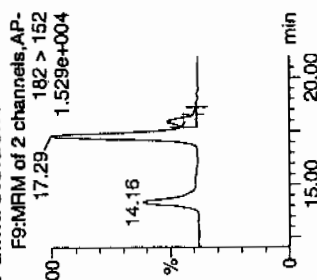
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

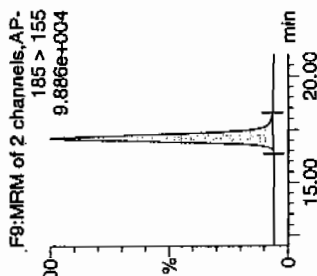
Printed: Sun Apr 11 11:47:08 2010, Page 96 of 97

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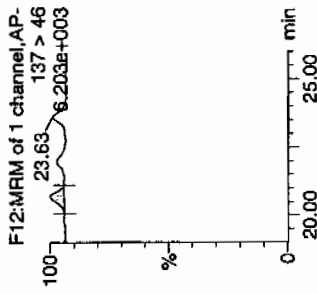
24-dinitrotoluene



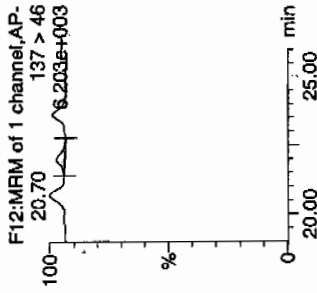
26-dinitrotoluene-d3



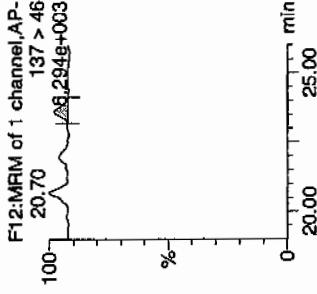
2-Nitrotoluene



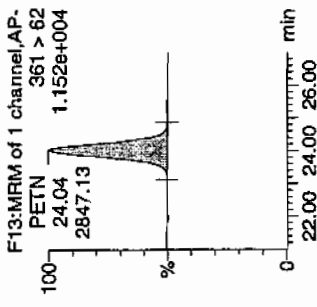
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Norm	Rec	Dev	S/N
WXX100410-08CRI	HMX	176 > 102	5.20	1972.745	6482.321	1972.745	152.163	bb	47.6369	119.1	18.1	244.9		
WXX100410-08CRI	RDX	176 > 102	7.54	1423.132	6482.321	1423.132	109.770	bb	45.0457	112.6	12.6	155.5		
WXX100410-08CRI	135-Trinitrobenzene	213 > 183	10.07	2358.014	6482.321	2358.014	181.880	bb	43.0654	107.7	7.7	336.3		
WXX100410-08CRI	13-Dinitrobenzene-d4	172 > 142	11.89	6482.321		6482.321	6482.321	bb	498.7897	99.8	-0.2	386.7		
WXX100410-08CRI	13-Dinitrobenzene	168 > 138	12.03	726.859	6482.321	726.859	56.065	bb	43.5329	108.8	8.8	80.9		
WXX100410-08CRI	Tetryl	241 > 181	12.49	618.931	6482.321	618.931	47.740	bb	46.3688	115.9	15.9	42.7		
WXX100410-08CRI	Nitrobenzene	123 > 46	13.40	296.398	6482.321	296.398	22.862	bb	38.0398	95.1	-4.9	31.9		
WXX100410-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.38	907.640	38244.344	907.640	11.866	MM	38.1196	95.3	-4.7	33.8		
WXX100410-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.22	1577.408	38244.344	1577.408	20.623	bb	45.1432	112.9	12.9	37.7		
WXX100410-08CRI	246-Trinitrotoluene	227 > 210	15.17	1401.128	38244.344	1401.128	18.318	bb	47.6050	119.0	19.0	77.0		
WXX100410-08CRI	34-dinitrotoluene	182 > 152	14.16	1517.544	38244.344	1517.544	19.840	bb	19.3453	96.7	-3.3	93.1		
WXX100410-08CRI	26-dinitrotoluene	182 > 152	17.29	3449.773	38244.344	3449.773	45.102	MM	39.6554	99.1	-0.9	245.5		
WXX100410-08CRI	24-dinitrotoluene	182 > 152	17.92	838.055	38244.344	838.055	10.957	MM	41.3871	103.5	3.5	51.6		
WXX100410-08CRI	26-dinitrotoluene-d3	185 > 155	17.11	38244.344		38244.344	38244.344	bb	484.3682	96.9	-3.1	2680.5		
WXX100410-08CRI	2-Nitrotoluene	137 > 46	20.70	171.826	38244.344	171.826	2.246	bb	29.2650	73.2	-26.8	20.0		
WXX100410-08CRI	4-Nitrotoluene	137 > 46	21.99	111.068	38244.344	111.068	1.452	bb	37.3634	93.4	-6.6	10.9		
WXX100410-08CRI	3-Nitrotoluene	137 > 46	23.63	136.864	38244.344	136.864	1.789	bb	32.7734	81.9	-18.1	12.1		
WXX100410-08CRI	PETN	361 > 62	24.04	2847.129	38244.344	2847.129	37.223	bb	46.7667	116.9	16.9	1392.9		

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/11/10
 Time of Injection 0905
 Standard Number WXX100410-08CRI
 Data File EXP0408122a

HMX	119.1
RDX	112.6
135-TNB	107.7
13-DNB	108.8
Tetryl	115.9
Nitrobenzene	95.1
4A-26-DNT	95.3
2A-46-DNT	112.9
246-TNT	119.0
34-DNT(surr)	96.7
26-DNT	99.1
24-DNT	103.5
2-NT	73.2
4-NT	93.4
3-NT	81.9
PETN	116.9

*mult
4/11/10*

Total 1651.1

Average 103.2

Handwritten signature

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408133a

Analysis Date: 11-APR-10 14:29

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	649.781	108	
1,3-Dinitrobenzene-d4	500	362.655	73	*
2,4,6-Trinitrotoluene	600	822.477	137	*
2,4-Dinitrotoluene	600	606.981	101	
2,6-Dinitrotoluene	600	605.537	101	
2,6-Dinitrotoluene-d3	500	357.737	72	*
2-Amino-4,6-dinitrotoluene	600	648.227	108	
3,4-Dinitrotoluene	300	300.112	100	
4-Amino-2,6-dinitrotoluene	600	689.362	115	
HMX	600	780.767	130	*
Nitrobenzene	600	577.305	96	
PETN	600	728.573	121	*
RDX	600	743.492	124	*
Tetryl	600	716.847	119	
m-Dinitrobenzene	600	620.029	103	
m-Nitrotoluene	600	501.598	84	
o-Nitrotoluene	600	533.11	89	
p-Nitrotoluene	600	584.617	97	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 21 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP04081033a

Date: 11-Apr-2010

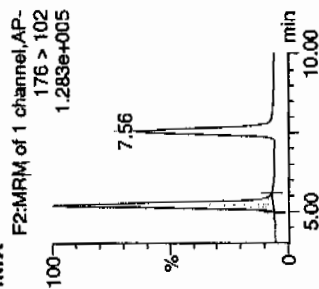
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ID: WXX100410-07CCV

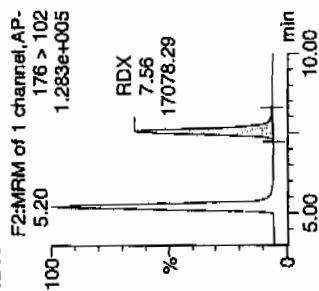
Vial: 1:1,B

Handwritten: 4/12/10

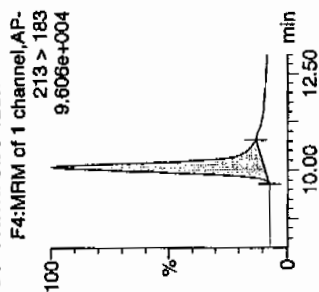
HMX



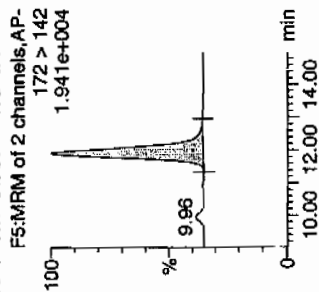
RDX



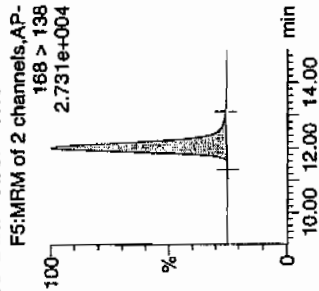
135-Trinitrobenzene



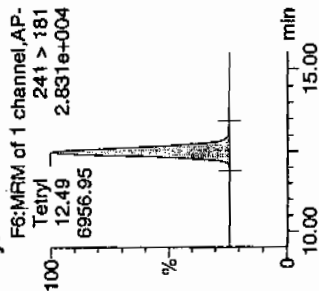
13-Dinitrobenzene-d4



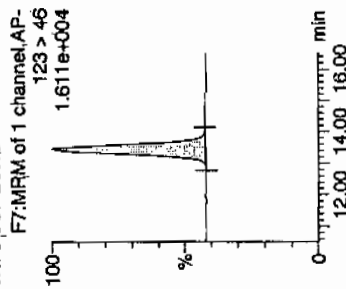
13-Dinitrobenzene



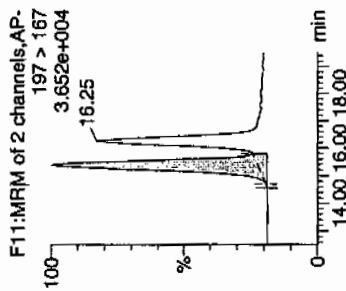
Tetryl



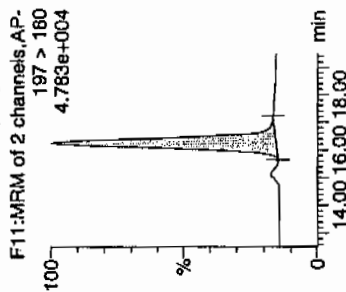
Nitrobenzene



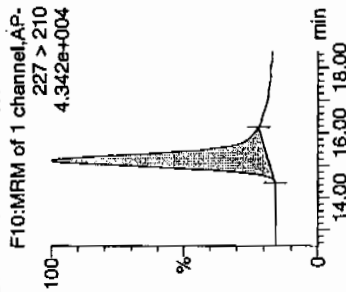
4-Amino-26-dinitrotoluene



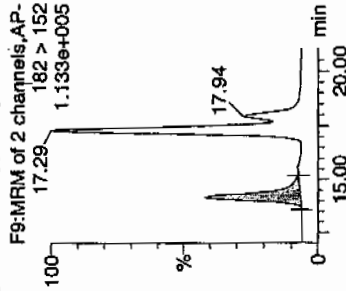
2-Amino-46-dinitrotoluene



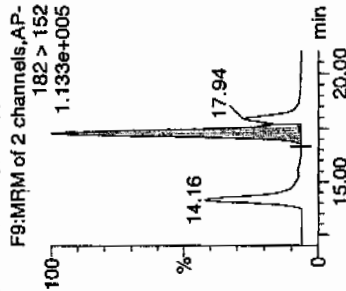
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



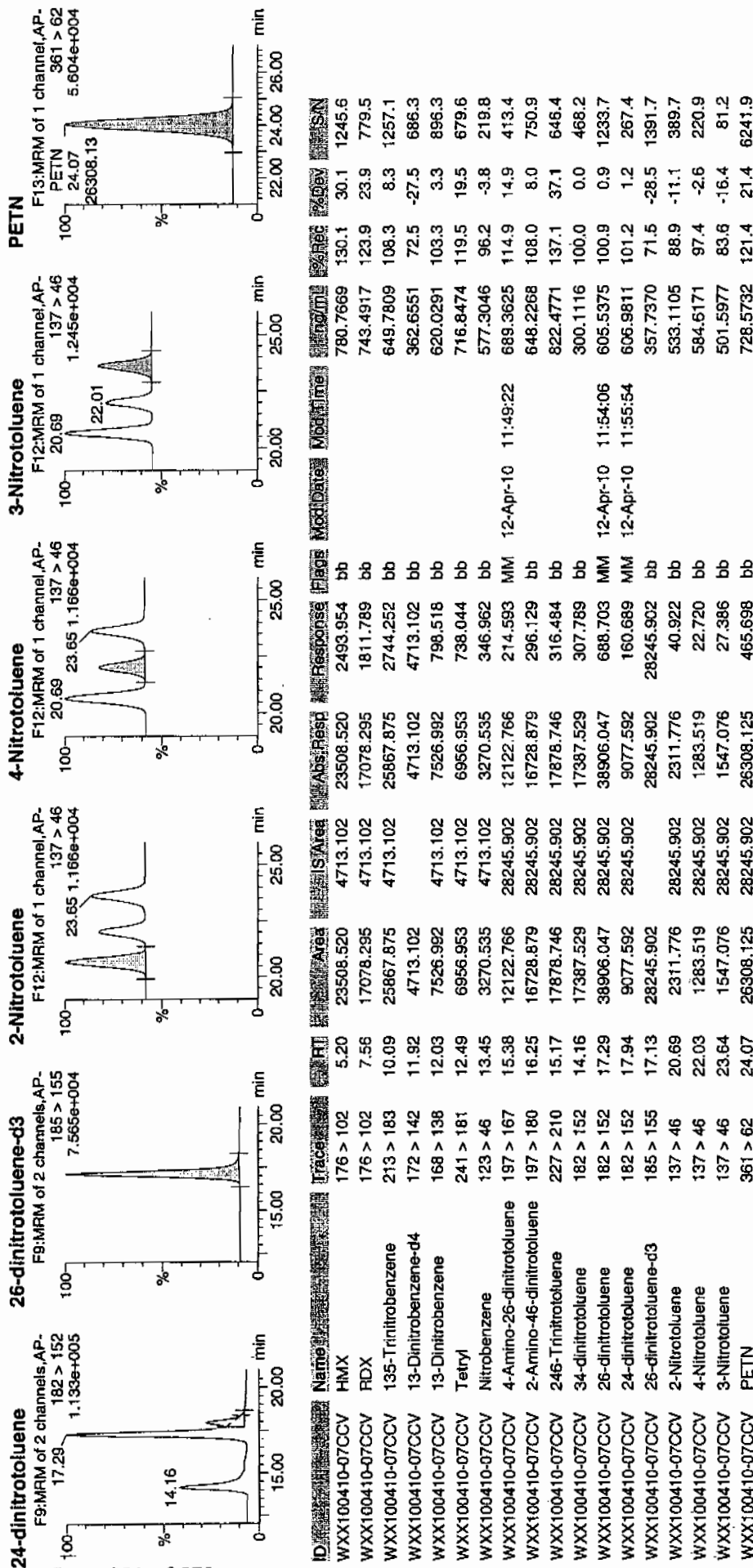
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Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 22 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/11/10
 Time of Injection: 1429
 Standard Number: WXX100410-07CCV
 Data File: EXP0408133a

HMX	130.1
RDX	123.9
135-TNB	108.3
13-DNB	103.3
Tetryl	119.5
Nitrobenzene	96.2
4A-26-DNT	114.9
2A-46-DNT	108.0
246-TNT	137.1
34-DNT(surr)	100.0
26-DNT	100.9
24-DNT	101.2
2-NT	88.9
4-NT	97.4
3-NT	83.6
PETN	121.4

*unit
4/12/10*

Total 1734.7

Time 04/13/10

Average 108.4

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408135a

Analysis Date: 11-APR-10 15:28

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	20	18.853	94	
4-Amino-2,6-dinitrotoluene	40	41.555	104	
HMX	40	45.808	115	
Nitrobenzene	40	35.9	90	
PETN	40	45.185	113	
RDX	40	41.686	104	
Tetryl	40	45.495	114	
m-Dinitrobenzene	40	40.648	102	
m-Nitrotoluene	40	30.433	76	
o-Nitrotoluene	40	32.453	81	
p-Nitrotoluene	40	28.601	72	
1,3,5-Trinitrobenzene	40	44.571	111	
1,3-Dinitrobenzene-d4	500	461.56	92	
2,4,6-Trinitrotoluene	40	45.296	113	
2,4-Dinitrotoluene	40	39.006	98	
2,6-Dinitrotoluene	40	38.861	97	
2,6-Dinitrotoluene-d3	500	477.037	95	
2-Amino-4,6-dinitrotoluene	40	49.267	123	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 25 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

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Date: 11-Apr-2010

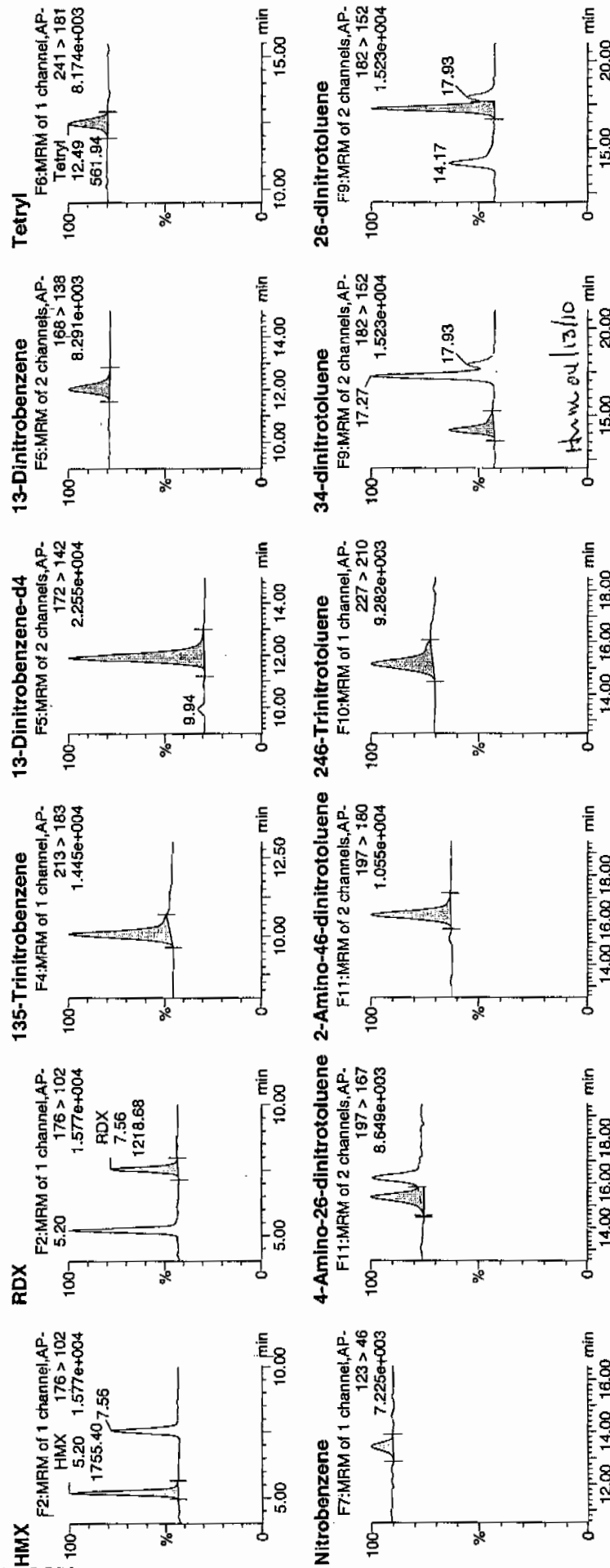
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Sample ID: WXX100410-08CRI

Vial: 1:1,C

11/12/10

Page 324 of 573



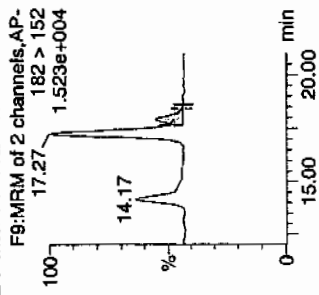
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

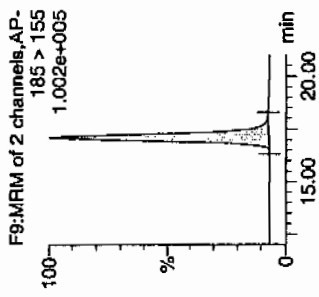
Printed: Mon Apr 12 11:59:59 2010, Page 26 of 105

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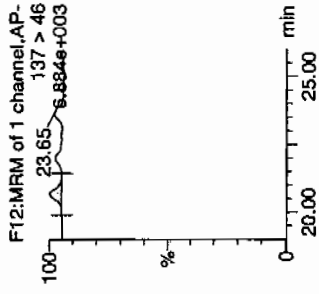
24-dinitrotoluene



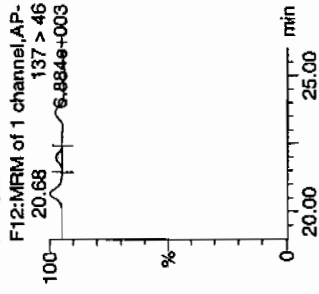
26-dinitrotoluene-d3



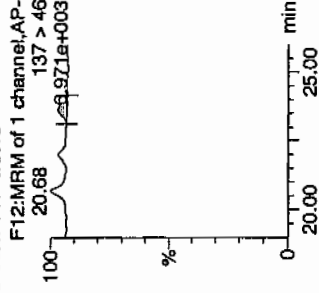
2-Nitrotoluene



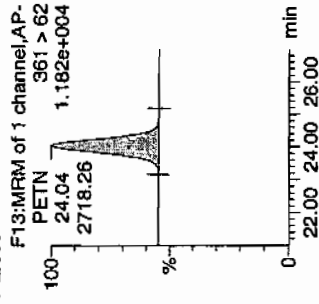
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	% Rec	% Dev	SIN
WXX100410-08CRI	HMV	176 > 102	5.20	1755.402	5998.483	1755.402	146.320	bb			45.8077	114.5	14.5	173.6
WXX100410-08CRI	RDX	176 > 102	7.56	1218.679	5998.483	1218.679	101.582	bb			41.6856	104.2	4.2	107.6
WXX100410-08CRI	135-Trinitrobenzene	213 > 183	10.07	2258.316	5998.483	2258.316	188.241	bb			44.5714	111.4	11.4	359.1
WXX100410-08CRI	13-Dinitrobenzene-d4	172 > 142	11.89	5998.483	5998.483	5998.483	5998.483	bb			461.5603	92.3	-7.7	396.7
WXX100410-08CRI	13-Dinitrobenzene	168 > 138	12.03	628.030	5998.483	628.030	52.349	bb			40.6477	101.6	1.6	56.4
WXX100410-08CRI	Tetryl	241 > 181	12.49	561.941	5998.483	561.941	46.840	bb			45.4950	113.7	13.7	30.9
WXX100410-08CRI	Nitrobenzene	123 > 46	13.41	258.846	5998.483	258.846	21.576	bb			35.8999	89.7	-10.3	22.9
WXX100410-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.36	974.465	37665.512	974.465	12.936	MM	12-Apr-10	11:49:32	41.5550	103.9	3.9	57.3
WXX100410-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.22	1695.451	37665.512	1695.451	22.507	bb			49.2671	123.2	23.2	141.4
WXX100410-08CRI	246-Trinitrotoluene	227 > 210	15.14	1312.989	37665.512	1312.989	17.430	bb			45.2960	113.2	13.2	202.4
WXX100410-08CRI	34-dinitrotoluene	182 > 152	14.17	1456.538	37665.512	1456.538	19.335	bb			18.8529	94.3	-5.7	52.9
WXX100410-08CRI	26-dinitrotoluene	182 > 152	17.27	3329.520	37665.512	3329.520	44.199	MM	12-Apr-10	11:53:53	38.8613	97.2	-2.8	145.2
WXX100410-08CRI	24-dinitrotoluene	182 > 152	17.93	777.876	37665.512	777.876	10.326	MM	12-Apr-10	11:56:06	39.0056	97.5	-2.5	30.7
WXX100410-08CRI	26-dinitrotoluene-d3	185 > 155	17.10	37665.512	37665.512	37665.512	37665.512	bb			477.0373	95.4	-4.6	2869.8
WXX100410-08CRI	2-Nitrotoluene	137 > 46	20.68	187.660	37665.512	187.660	2.491	bb			32.4530	81.1	-18.9	27.2
WXX100410-08CRI	4-Nitrotoluene	137 > 46	22.00	83.733	37665.512	83.733	1.112	bb			28.6007	71.5	-28.5	14.4
WXX100410-08CRI	3-Nitrotoluene	137 > 46	23.65	125.167	37665.512	125.167	1.662	bb			30.4330	76.1	-23.9	13.1
WXX100410-08CRI	PETN	361 > 62	24.04	2718.257	37665.512	2718.257	36.084	bb			45.1848	113.0	13.0	605.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/11/10
 Time of Injection 1528
 Standard Number WXX100410-08CRI
 Data File EXP0408135a

HMX	114.5
RDX	104.2
135-TNB	111.4
13-DNB	101.6
Tetryl	113.7
Nitrobenzene	89.7
4A-26-DNT	103.9
2A-46-DNT	123.2
246-TNT	113.2
34-DNT(surr)	94.3
26-DNT	97.2
24-DNT	97.5
2-NT	91.1
4-NT	71.5
3-NT	76.1
PETN	113.0

*mtf
4/11/10*

Total 1616.1

Average 101.0

Sum 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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0408146a

Analysis Date: 11-APR-10 20:53

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	600	547.326	91	
PETN	600	734.582	122	*
RDX	600	721.586	120	*
Tetryl	600	719.768	120	
m-Dinitrobenzene	600	594.437	99	
m-Nitrotoluene	600	460.063	77	*
o-Nitrotoluene	600	485.173	81	
p-Nitrotoluene	600	511.383	85	
1,3,5-Trinitrobenzene	600	600.459	100	
1,3-Dinitrobenzene-d4	500	492.018	98	
2,4,6-Trinitrotoluene	600	724.157	121	*
2,4-Dinitrotoluene	600	641.369	107	
2,6-Dinitrotoluene	600	596.17	99	
2,6-Dinitrotoluene-d3	500	489.867	98	
2-Amino-4,6-dinitrotoluene	600	709.812	118	
3,4-Dinitrotoluene	300	299.948	100	
4-Amino-2,6-dinitrotoluene	600	648.486	108	
HMX	600	704.717	117	

Recovery Limits:

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

2,4-Diamino-6-nitrotoluene 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\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408146a

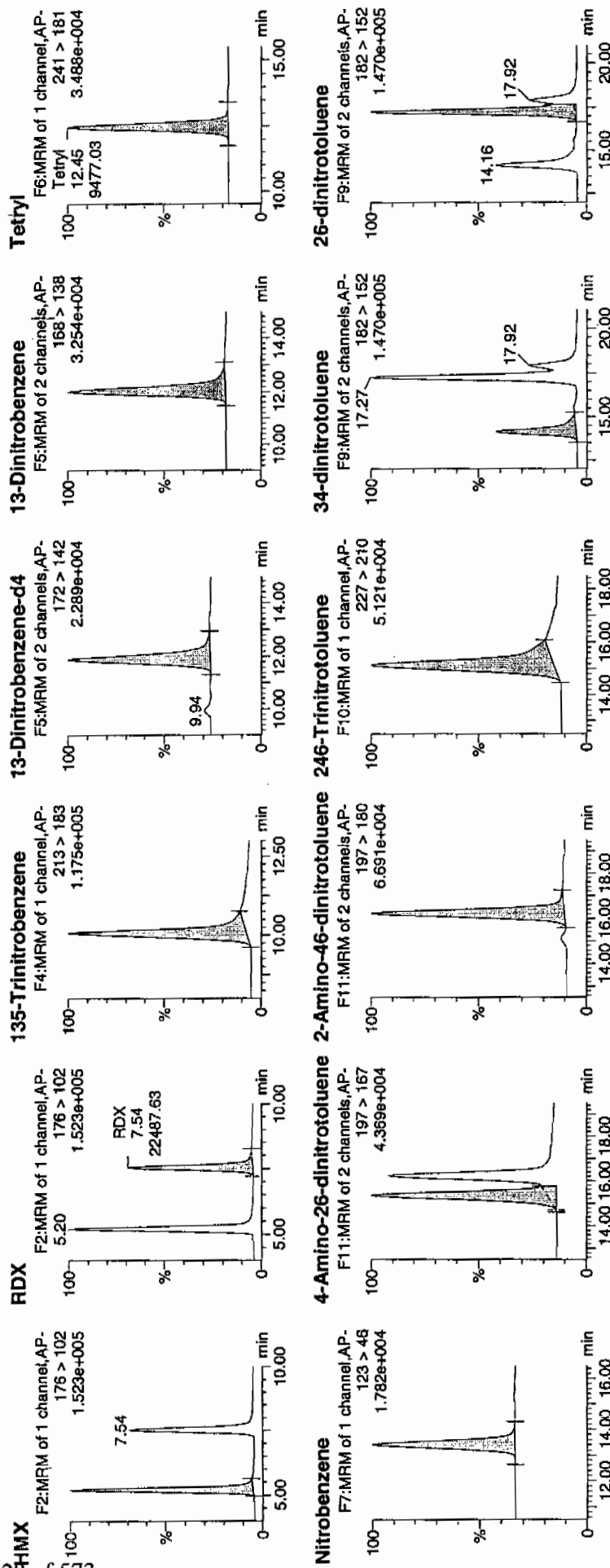
Date: 11-Apr-2010

Time: 20:53:05

ID: WXX100410-07CCV

Vial: 1:1,B

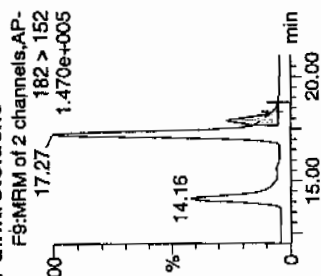
10/10/10



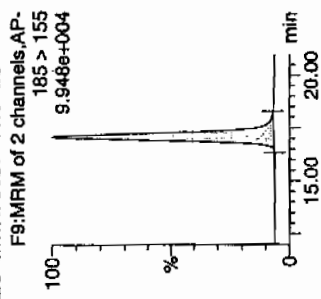
10/10/10

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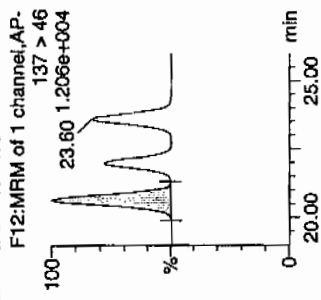
2,4-dinitrotoluene



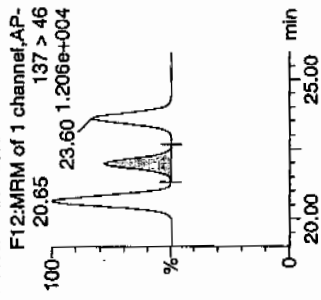
26-dinitrotoluene-d3



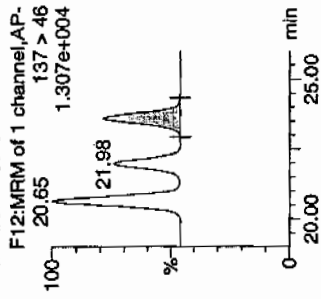
2-Nitrotoluene



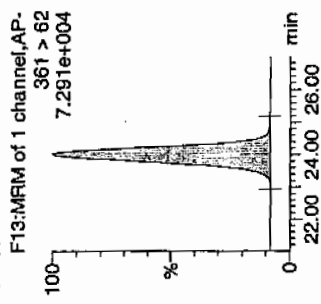
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	S Area	Abs Resp	Flags	Mod Date	Mod Time	Intg/mL	Exp Rec	Lab Rec	Lab ID
WXX100410-07CCV	HMX	176 > 102	5.20	28787.627	6394.316	28787.627	2251.033	bb	704.7169	117.5	17.5	2875.4
WXX100410-07CCV	RDX	176 > 102	7.54	22487.629	6394.316	22487.629	1758.408	bb	721.5859	120.3	20.3	1949.8
WXX100410-07CCV	135-Trinitrobenzene	213 > 183	10.07	32431.330	6394.316	32431.330	2535.950	bb	600.4595	100.1	0.1	2570.2
WXX100410-07CCV	13-Dinitrobenzene-d4	172 > 142	11.90	6394.316		6394.316	6394.316	bb	492.0181	98.4	-1.6	1930.6
WXX100410-07CCV	13-Dinitrobenzene	168 > 138	12.00	9790.448	6394.316	9790.448	765.559	bb	594.4372	99.1	-0.9	1244.5
WXX100410-07CCV	Tetryl	241 > 181	12.45	9477.033	6394.316	9477.033	741.051	bb	719.7684	120.0	20.0	512.8
WXX100410-07CCV	Nitrobenzene	123 > 46	13.40	4206.757	6394.316	4206.757	328.945	bb	547.3264	91.2	-8.8	285.0
WXX100410-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.35	15615.968	38678.508	15615.968	201.869	MM	648.4859	108.1	8.1	517.2
WXX100410-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.22	25084.055	38678.508	25084.055	324.263	bb	709.8125	118.3	18.3	1084.0
WXX100410-07CCV	246-Trinitrotoluene	227 > 210	15.13	21555.594	38678.508	21555.594	278.651	bb	724.1566	120.7	20.7	957.1
WXX100410-07CCV	34-dinitrotoluene	182 > 152	14.16	23796.656	38678.508	23796.656	307.621	bb	299.9485	100.0	-0.0	756.4
WXX100410-07CCV	26-dinitrotoluene	182 > 152	17.27	52451.828	38678.508	52451.828	678.049	MM	596.1702	99.4	-0.6	1935.6
WXX100410-07CCV	24-dinitrotoluene	182 > 152	17.92	13134.621	38678.508	13134.621	169.792	MM	641.3687	106.9	6.9	435.7
WXX100410-07CCV	26-dinitrotoluene-d3	185 > 155	17.09	38678.508		38678.508	38678.508	bb	489.8870	98.0	-2.0	1932.0
WXX100410-07CCV	2-Nitrotoluene	137 > 46	20.65	2880.975	38678.508	2880.975	37.243	bb	485.1731	80.9	-19.1	433.2
WXX100410-07CCV	4-Nitrotoluene	137 > 46	21.98	1537.417	38678.508	1537.417	19.874	bb	511.3634	85.2	-14.8	246.6
WXX100410-07CCV	3-Nitrotoluene	137 > 46	23.59	1943.065	38678.508	1943.065	25.118	bb	460.0626	76.7	-23.3	175.9
WXX100410-07CCV	PETN	361 > 62	24.02	36274.348	38678.508	36274.348	468.921	bb	734.5817	122.4	22.4	12259.1

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 04/11/10
 Time of Injection: 2053
 Standard Number: WXX100410-07CCV
 Data File: EXP0408146a

HMX	117.5
RDX	120.3
135-TNB	100.1
13-DNB	99.1
Tetryl	120.0
Nitrobenzene	91.2
4A-26-DNT	108.1
2A-46-DNT	118.3
246-TNT	120.7
34-DNT(surr)	100.0
26-DNT	99.4
24-DNT	106.9
2-NT	80.9
4-NT	85.2
3-NT	76.7
PETN	122.4
Total	1666.8

Handwritten: 104.2
4/11/10

Average

104.2

Handwritten: Anal 04/13/10

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0408148a

Analysis Date: 11-APR-10 21:52

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	44.719	112	
1,3-Dinitrobenzene-d4	500	504.846	101	
2,4,6-Trinitrotoluene	40	55.401	139	*
2,4-Dinitrotoluene	40	37.695	94	
2,6-Dinitrotoluene	40	41.298	103	
2,6-Dinitrotoluene-d3	500	486.341	97	
2-Amino-4,6-dinitrotoluene	40	43.458	109	
3,4-Dinitrotoluene	20	22.878	114	
4-Amino-2,6-dinitrotoluene	40	40.318	101	
HMX	40	52.117	130	*
Nitrobenzene	40	35.333	88	
PETN	40	52.225	131	*
RDX	40	49.181	123	
Tetryl	40	54.272	136	*
m-Dinitrobenzene	40	38.283	96	
m-Nitrotoluene	40	31.736	79	
o-Nitrotoluene	40	31.83	80	
p-Nitrotoluene	40	38.291	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 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: Mon Apr 12 11:59:59 2010, Page 51 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

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Date: 11-Apr-2010

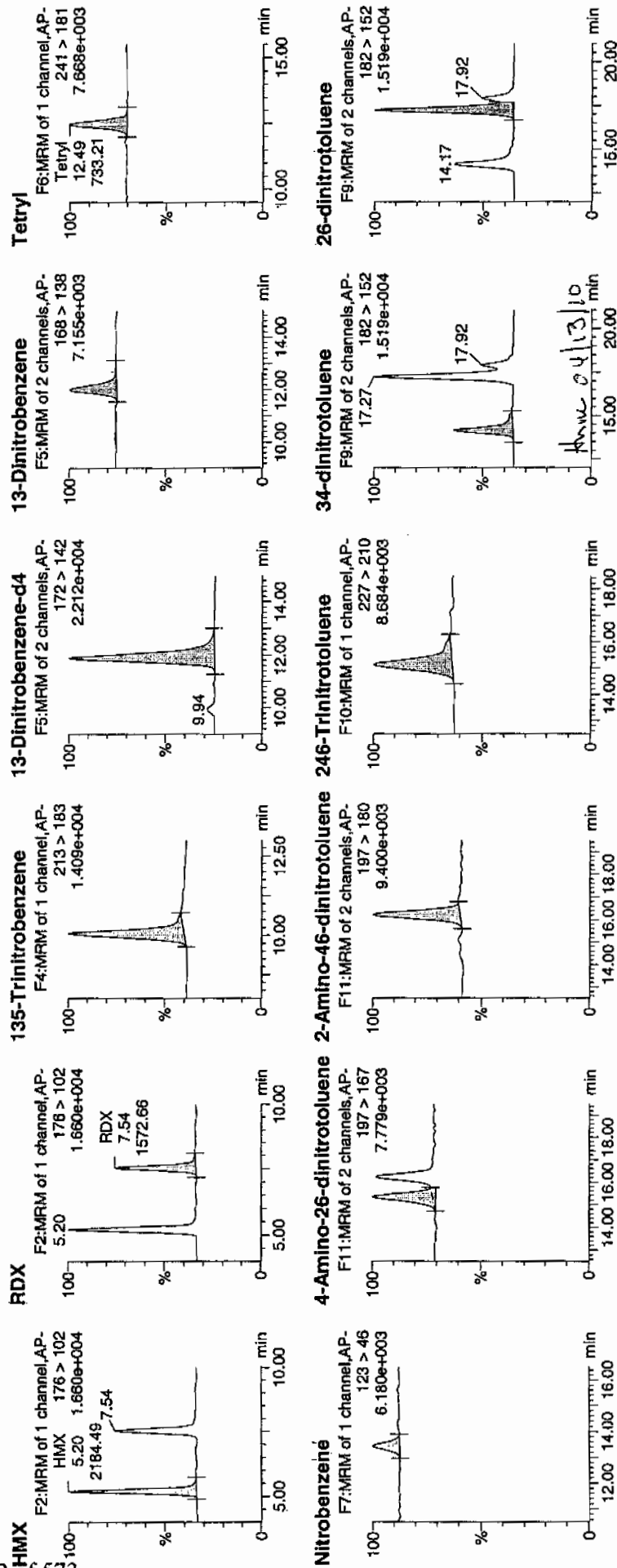
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ID: WXX100410-08CRI

Vial: 1:1,C

4/13/10

332 of 573

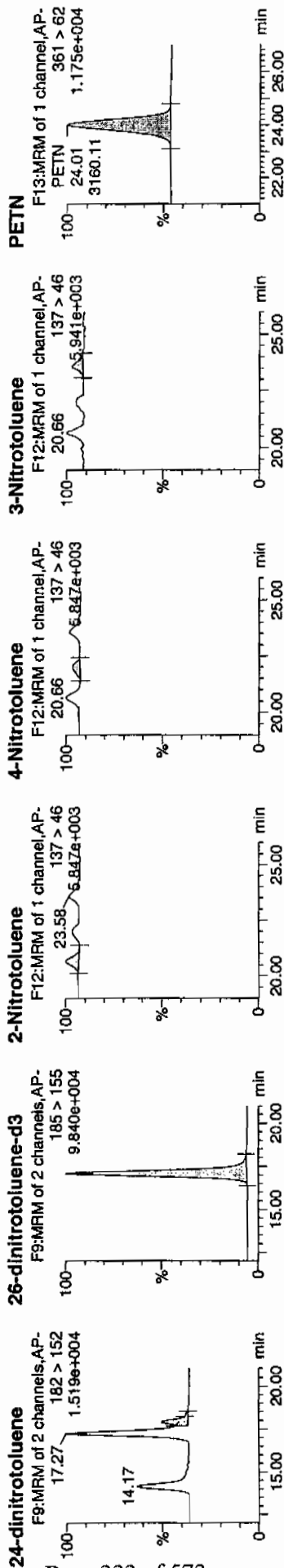


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 52 of 105

Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc/mL	% Rec	% Dev	SN
WXX100410-08CRI	HMx	176 > 102	5.20	2184.490	6561.025	2184.490	166.475	bb			52.1172	130.3	30.3	491.6
WXX100410-08CRI	RDX	176 > 102	7.54	1572.658	6561.025	1572.658	119.848	bb			49.1814	123.0	23.0	309.6
WXX100410-08CRI	135-Trinitrobenzene	213 > 183	10.07	2478.263	6561.025	2478.263	188.862	bb			44.7187	111.8	11.8	132.4
WXX100410-08CRI	13-Dinitrobenzene-d4	172 > 142	11.89	6561.025		6561.025		bb			504.8457	101.0	1.0	612.4
WXX100410-08CRI	13-Dinitrobenzene	168 > 138	12.00	646.956		646.956	49.303	bb			38.2825	95.7	-4.3	75.9
WXX100410-08CRI	Tetryl	241 > 181	12.49	733.212		733.212	55.876	bb			54.2716	135.7	35.7	63.2
WXX100410-08CRI	Nitrobenzene	123 > 46	13.41	278.649		278.649	21.235	bb			35.3329	88.3	-11.7	46.7
WXX100410-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.36	963.896		963.896	12.551	MM	12-Apr-10	11:49:56	40.3180	100.8	0.8	52.7
WXX100410-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.22	1524.714		1524.714	19.853	bb			43.4582	108.6	8.6	117.5
WXX100410-08CRI	246-Trinitrotoluene	227 > 210	15.14	1637.227		1637.227	21.318	bb			55.4011	138.5	38.5	123.2
WXX100410-08CRI	34-dinitrotoluene	182 > 152	14.17	1802.001		1802.001	23.463	bb			22.8783	114.4	14.4	104.5
WXX100410-08CRI	26-dinitrotoluene	182 > 152	17.27	3607.268		3607.268	46.970	MM	12-Apr-10	11:53:31	41.2977	103.2	3.2	247.5
WXX100410-08CRI	24-dinitrotoluene	182 > 152	17.92	766.398		766.398	9.979	MM	12-Apr-10	11:56:47	37.8948	94.2	-5.8	53.6
WXX100410-08CRI	26-dinitrotoluene-d3	185 > 155	17.09	38400.105		38400.105	38400.105	bb			486.3410	97.3	-2.7	2928.8
WXX100410-08CRI	2-Nitrotoluene	137 > 46	20.66	187.649		187.649	2.443	bb			31.8303	79.6	-20.4	56.7
WXX100410-08CRI	4-Nitrotoluene	137 > 46	22.00	114.290		114.290	1.488	bb			38.2913	95.7	-4.3	29.8
WXX100410-08CRI	3-Nitrotoluene	137 > 46	23.56	133.071		133.071	1.733	bb			31.7359	79.3	-20.7	22.6
WXX100410-08CRI	PETN	361 > 62	24.01	3160.105		3160.105	41.147	bb			52.2252	130.6	30.6	887.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 04/11/10
 Time of Injection 2152
 Standard Number WXX100410-08CRI
 Data File EXP0408148a

HMX	130.3
RDX	123.0
135-TNB	111.8
13-DNB	95.9
Tetryl	135.7
Nitrobenzene	88.3
4A-26-DNT	100.8
2A-46-DNT	108.6
246-TNT	138.5
34-DNT(surr)	114.4
26-DNT	103.2
24-DNT	94.2
2-NT	79.6
4-NT	95.7
3-NT	79.3
PETN	130.6

*not
4/12/10*

Total 1729.9

Average 108.1

done 04/13/10

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): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03120013.wiff

Analysis Date: 12-MAR-10 19:09

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	98.2	98	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	49.8	100	
3,5-Dinitroaniline	100	102	102	
TATB	100	96.7	97	
tris(o-cresyl) phosphate	100	101	101	

Recovery Limits:

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

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

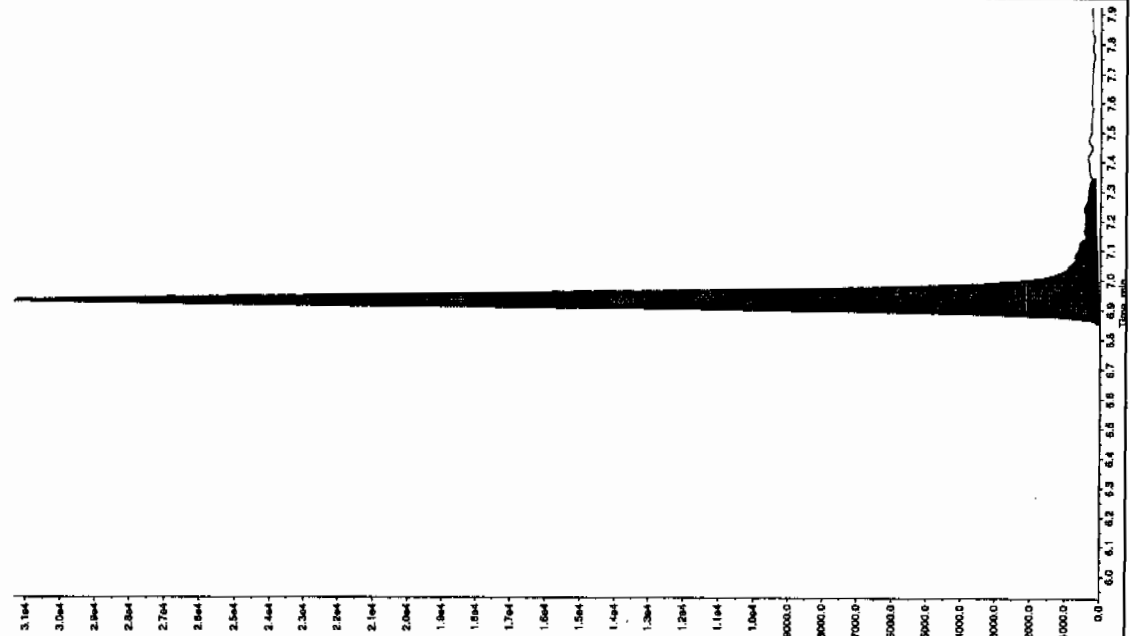
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before then 3/16/10

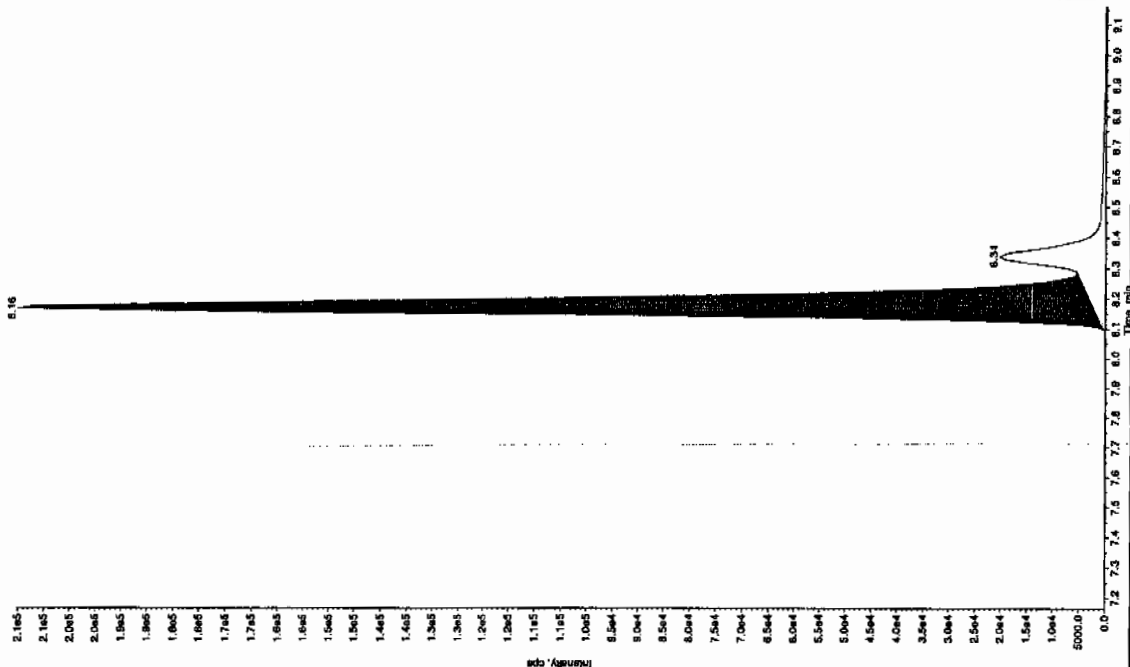
Sample Name: "WXX100312-27CR" Sample ID: "TILLER" File: "EXS03120013.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LC/MS/EXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 98.8 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 7:09:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.92 min
 Area: 1.26e+005 counts
 Height: 31296.347 cps
 Start Time: 6.33 min
 End Time: 7.33 min



Sample Name: "WXX100312-27CR" Sample ID: "TILLER" File: "EXS03120013.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): 182.048.0 amu
 Comment: "LC/MS/EXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 98.8 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 7:09:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 7.90e+005 counts
 Height: 208120.468 cps
 Start Time: 8.09 min
 End Time: 8.29 min

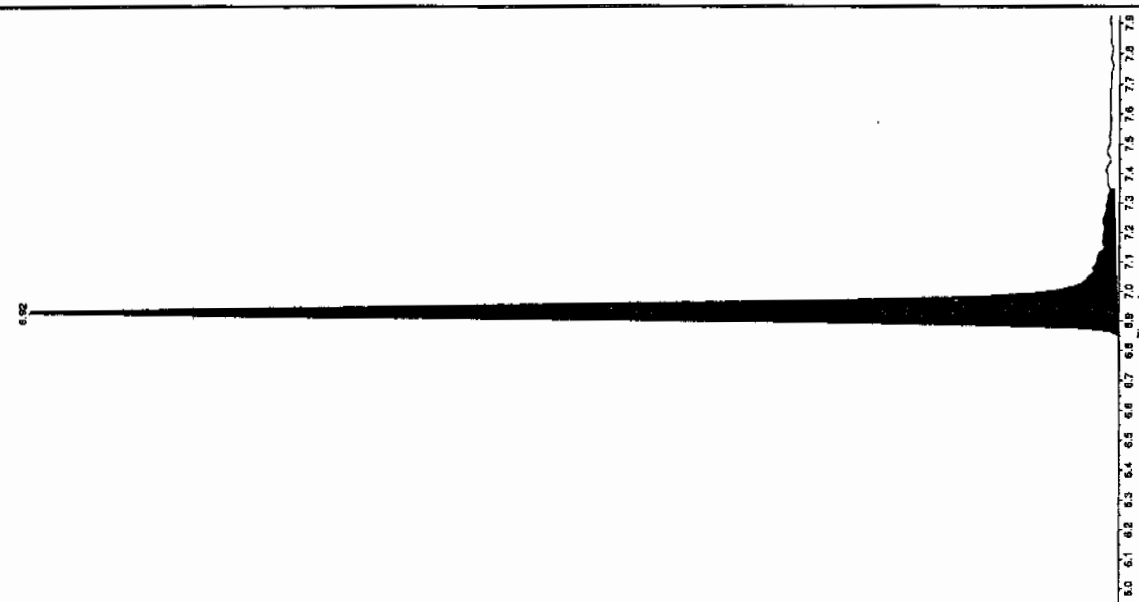


After 03/15/10

after Jan 3/16/10

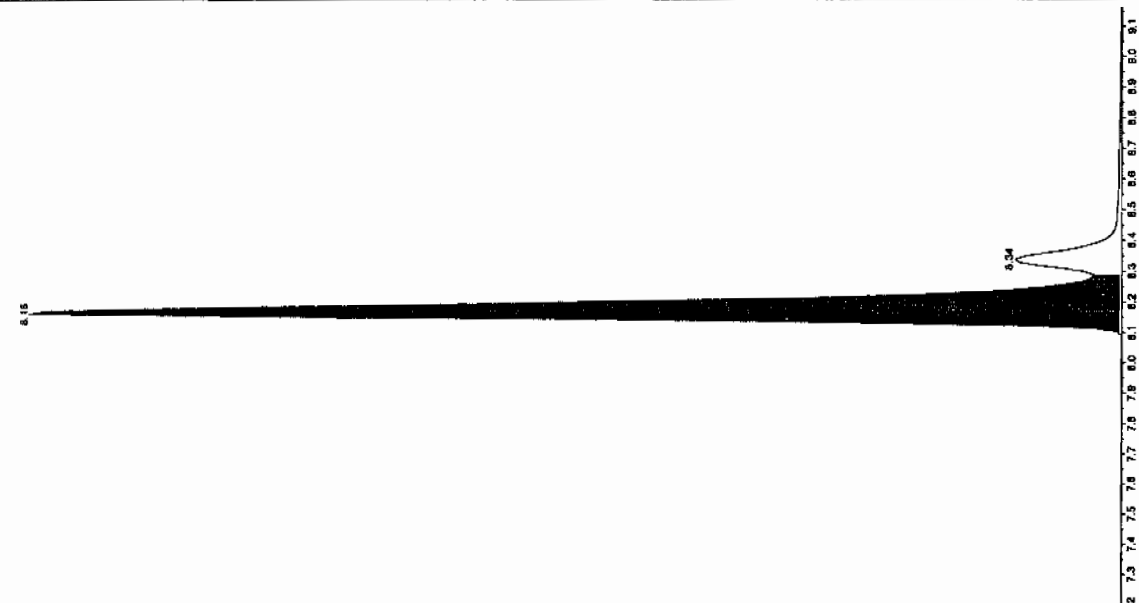
Sample Name: "WXX100312-270R" Sample ID: "JLIER" File: "EX503120013.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 10.0 ng/mL
 Calculated Conc: 96.7 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 7:09:15 PM
 Modified: No
 Subc. Algorithm: IntellQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.92 min
 Area: 1.26e+005 counts
 Height: 31298.347 cps
 Start Time: 6.53 min
 End Time: 7.35 min



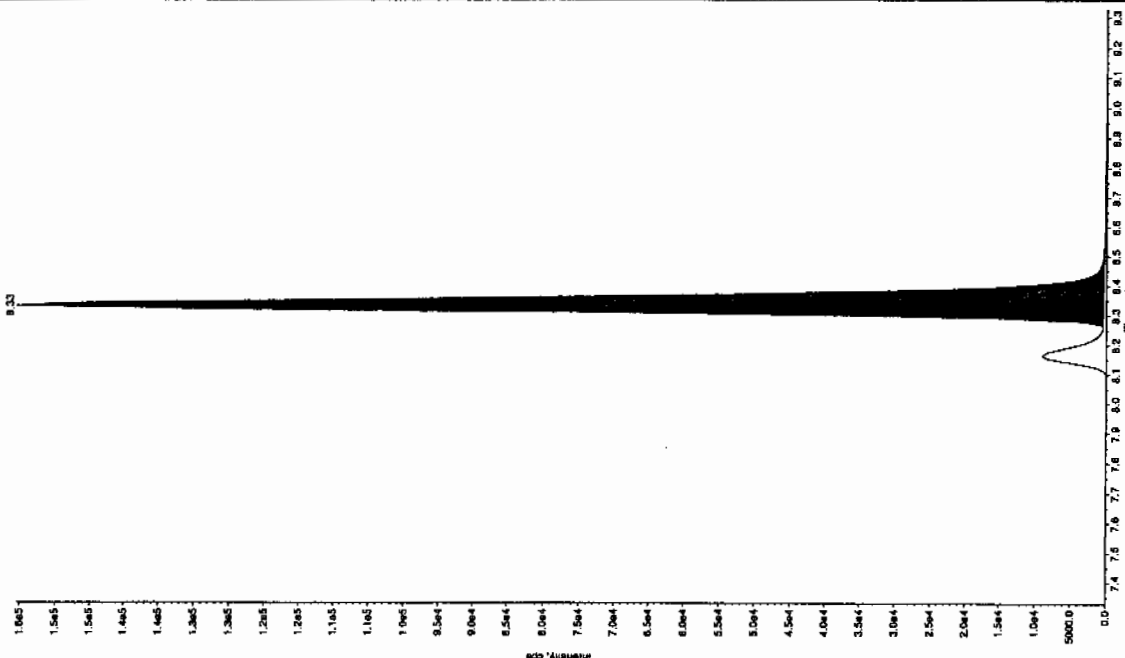
Sample Name: "WXX100312-270R" Sample ID: "JLIER" File: "EX503120013.wif"
 Peak Name: "35-Dihydrocinnoline" Mass(es): "182.048.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 10.0 ng/mL
 Calculated Conc: 100. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 7:09:15 PM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.17 min
 Area: 8.18e+005 counts
 Height: 213972.008 cps
 Start Time: 8.09 min
 End Time: 8.29 min



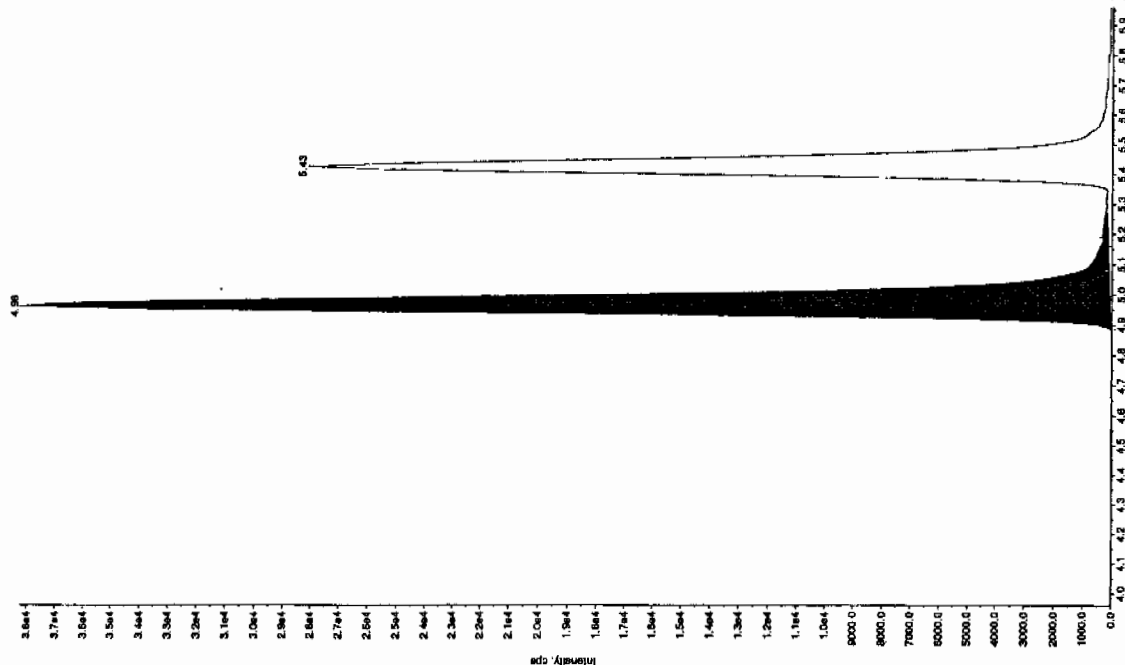
Sample Name: "WXX10031227CR" Sample ID: "11LBR" File: "EX00120013.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

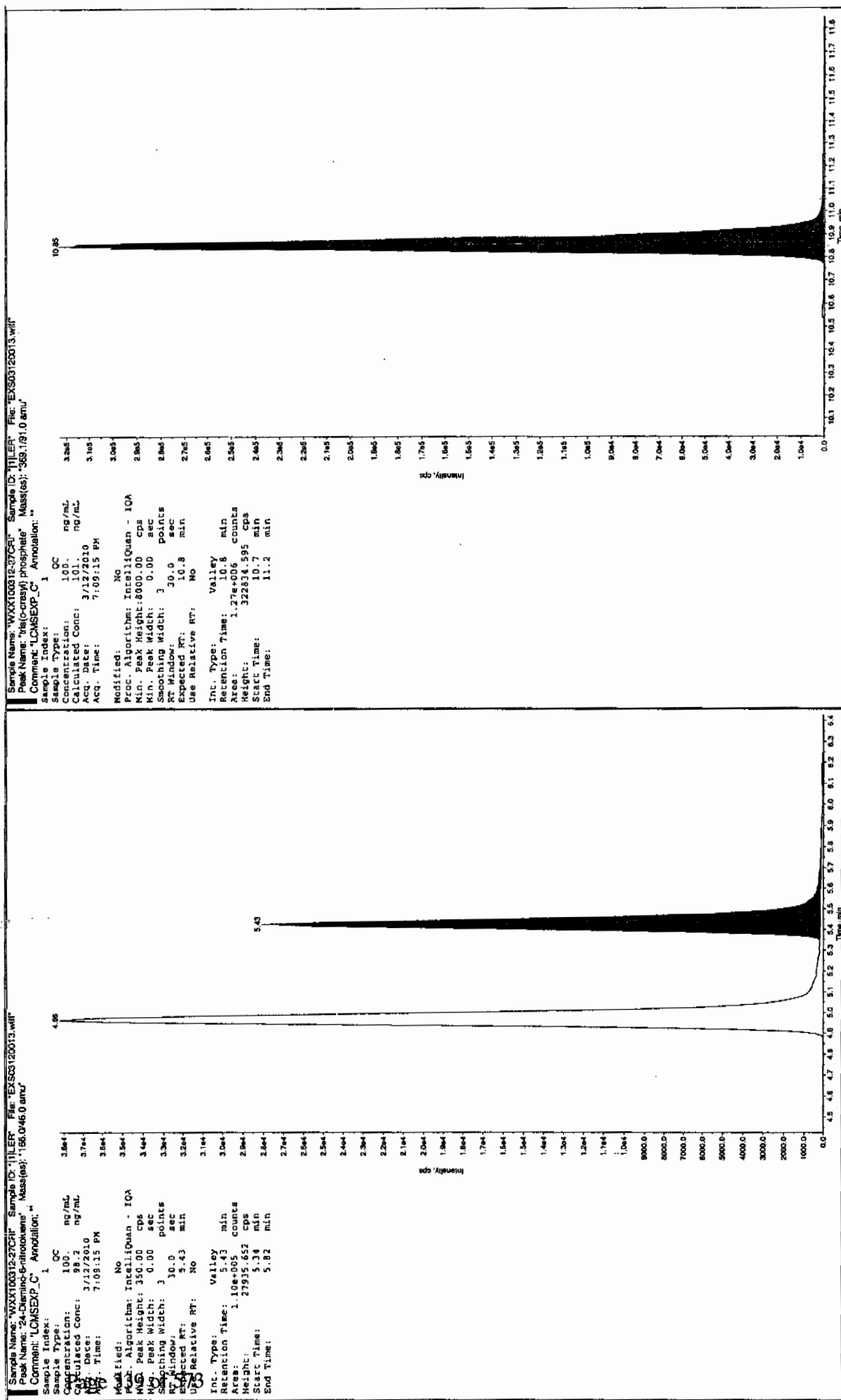
Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 49.8 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 7:09:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 5.64e+005 counts
 Height: 135084.357 cps
 Start Time: 8.26 min
 End Time: 8.58 min



Sample Name: "WXX10031227CR" Sample ID: "11LBR" File: "EX00120013.wif"
 Peak Name: "25-Dinitro-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 104. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 7:09:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.60e+005 counts
 Height: 38181.129 cps
 Start Time: 4.87 min
 End Time: 5.27 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03120024.wiff

Analysis Date: 12-MAR-10 22:02

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	542	108	
2,6-Diamino-4-nitrotoluene	500	522	104	
3,4-Dinitrotoluene	250	253	101	
3,5-Dinitroaniline	500	525	105	
TATB	500	537	107	
tris(o-cresyl) phosphate	500	511	102	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3/10/10

Sample Name: "WXX100312-262CV" Sample ID: "111ER" File: "EX50312024.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

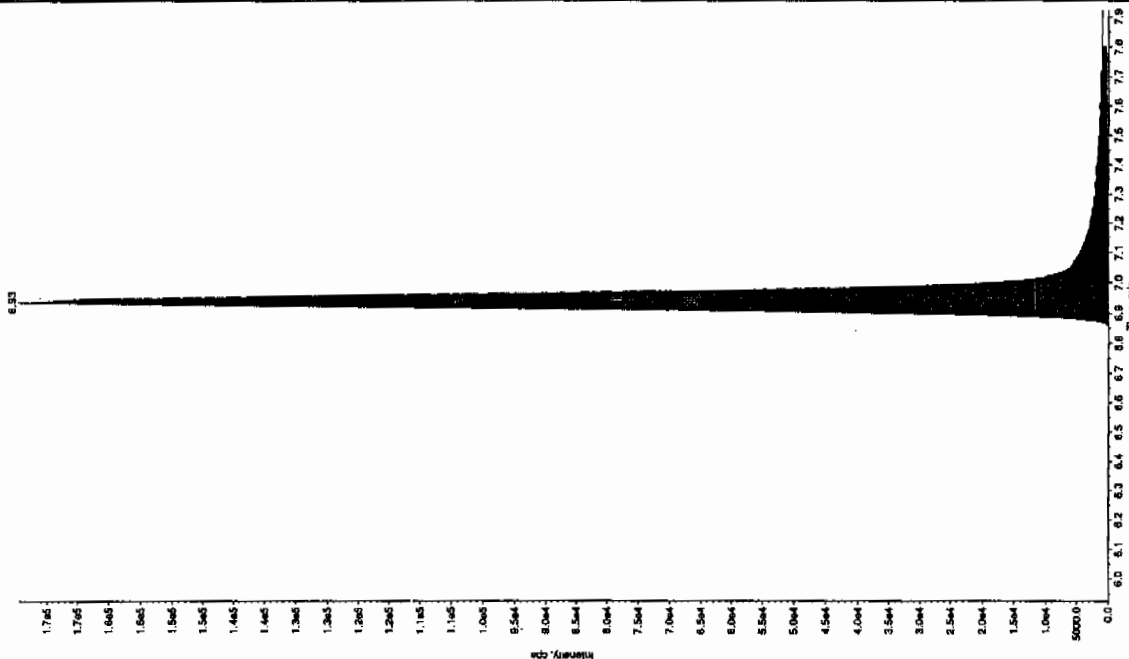
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 508. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:02:00 PM
 Modified: No
 Proc Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 3.93e+006 counts
 Height: 1051517.334 cps
 Start Time: 8.10 min
 End Time: 8.25 min



Humong 7/10

Sample Name: "WXX100312-262CV" Sample ID: "111ER" File: "EX50312024.wif"
 Peak Name: "TATB" Mass(es): "267.2/204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 537. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:02:00 PM
 Modified: No
 Proc Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 7.54e+005 counts
 Height: 174651.840 cps
 Start Time: 6.84 min
 End Time: 7.10 min

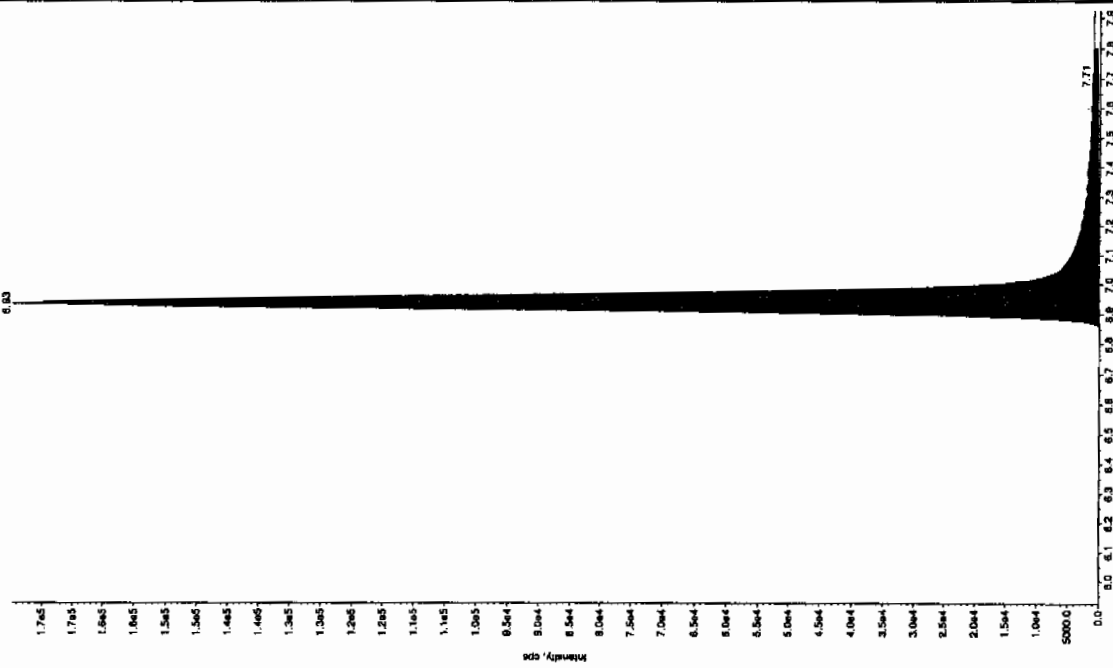


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

after Jan 3/16/10

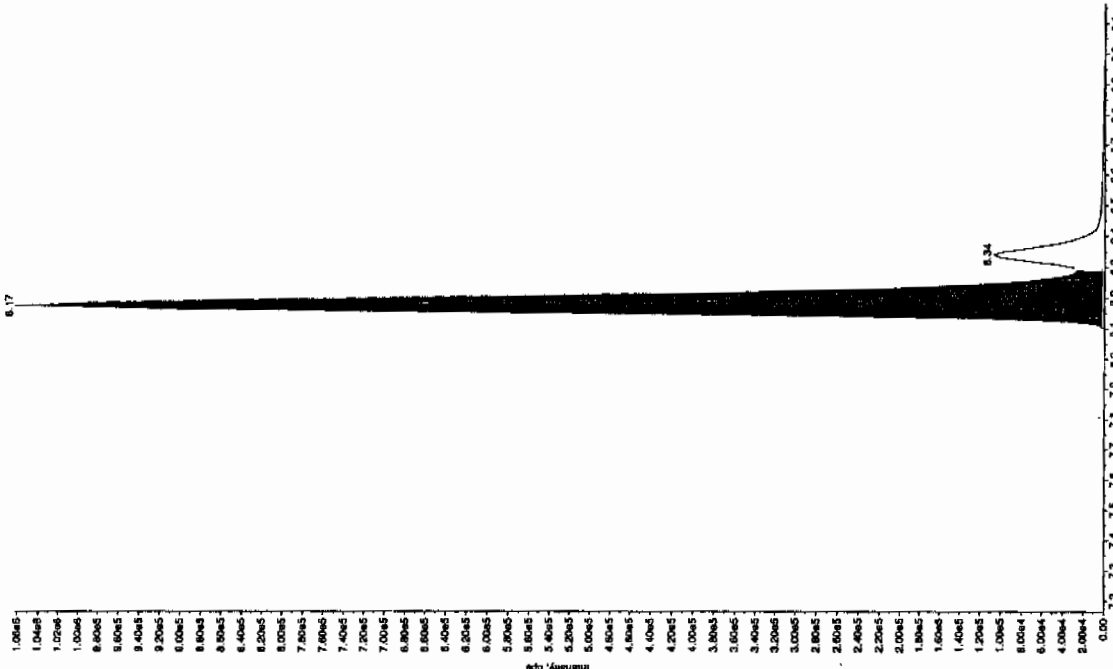
Sample Name: WXX100312-262CV Sample ID: 111ER File: EX503120024.wif
 Peak Name: YATB Mass(es): 237.2224.9 amu
 Comment: LCMSEXP_C Annotation:

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 3/12/2010
 Acq. Time: 10:02:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Peak Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Peak Height: 7.54e+005 counts
 Start Time: 174651.840 cps
 End Time: 6.84 min



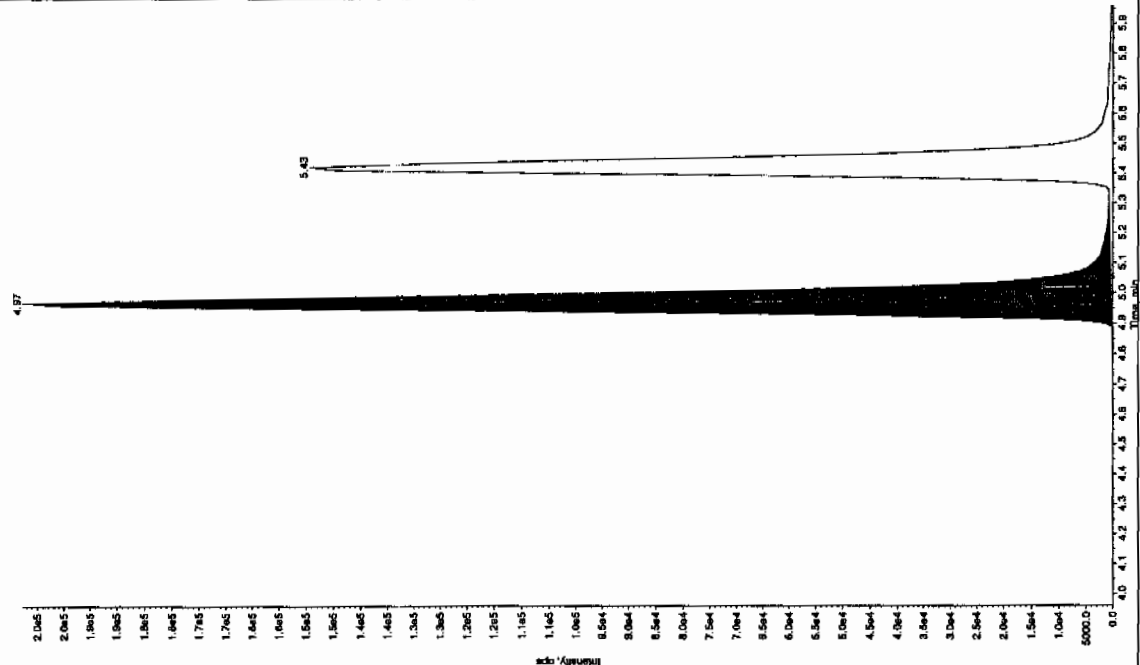
Sample Name: WXX100312-262CV Sample ID: 111ER File: EX503120024.wif
 Peak Name: 35-Dinitroanthracene Mass(es): 182.046.0 amu
 Comment: LCMSEXP_C Annotation:

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 3/12/2010
 Acq. Date: 3/12/2010
 Acq. Time: 10:02:00 PM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.18 min
 Area: 4.06e+006 counts
 Height: 1052695.465 cps
 Start Time: 8.10 min
 End Time: 8.29 min



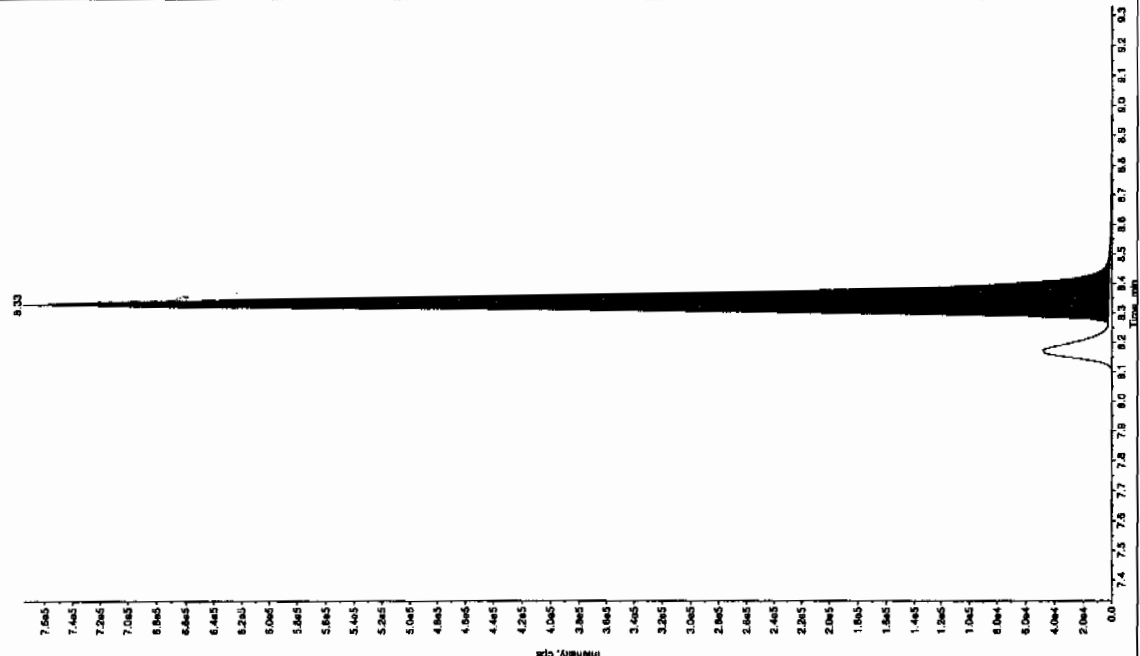
Sample Name: "WXX100312-26CCV" Sample ID: "HLEP" File: "EX803120024.wif"
 Peak Name: "26-Diamino-4-nitrothiophene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 522. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:02:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Area: 8.42e+005 counts
 Height: 202560.318 cps
 Start Time: 4.88 min
 End Time: 5.27 min

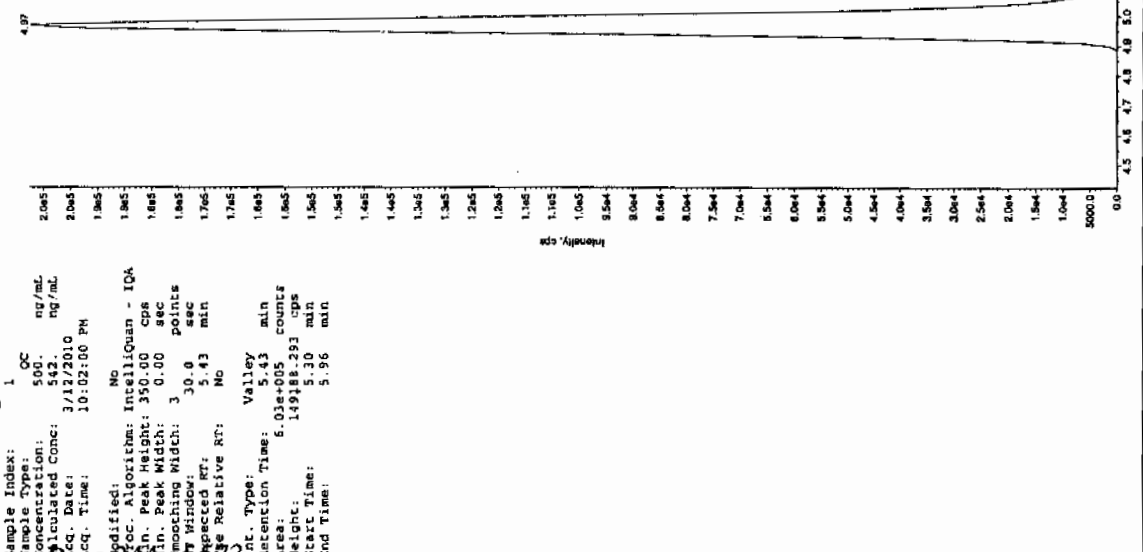


Sample Name: "WXX100312-26CCV" Sample ID: "HLEP" File: "EX803120024.wif"
 Peak Name: "34-Dinitrothiophene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

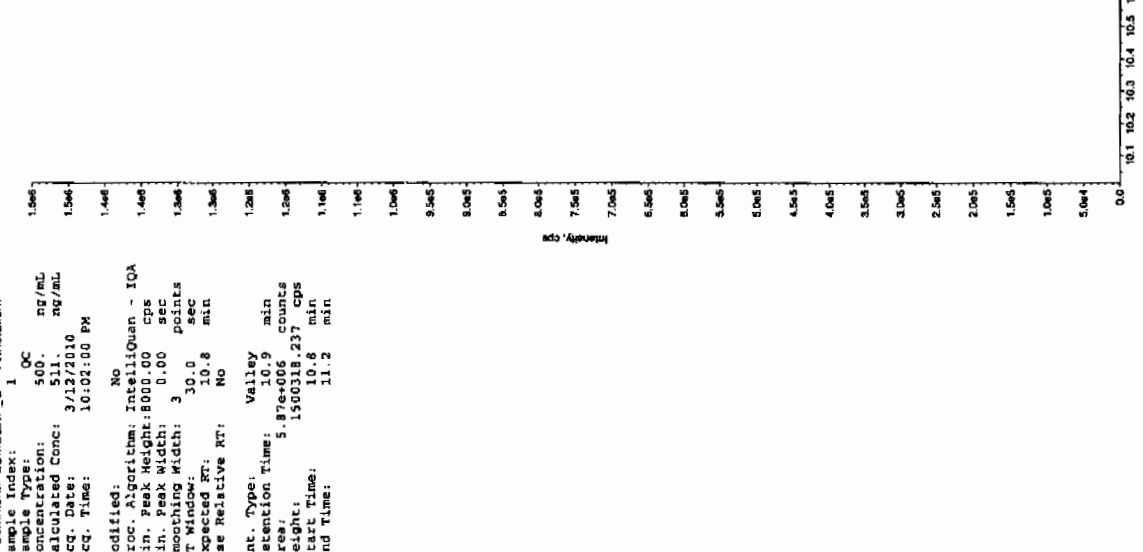
Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 253. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:02:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.86e+006 counts
 Height: 773319.214 cps
 Start Time: 8.26 min
 End Time: 8.58 min



Sample Name: "WXX100312-2800V" Sample ID: "HILER" File: "EXS03120024.wif"
 Peak Name: "24-Diapino-5-nitrophenol" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""



Sample Name: "WXX100312-2800V" Sample ID: "HILER" File: "EXS03120024.wif"
 Peak Name: "Tri(o-cresyl) phosphate" Mass(es): "359.1791.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03120026.wiff

Analysis Date: 12-MAR-10 22:33

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	114	114	
3,4-Dinitrotoluene	50	50.9	102	
3,5-Dinitroaniline	100	108	108	
TATB	100	103	103	
tris(o-cresyl) phosphate	100	103	103	

Recovery Limits:

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

Other Target Analytes 70-130%

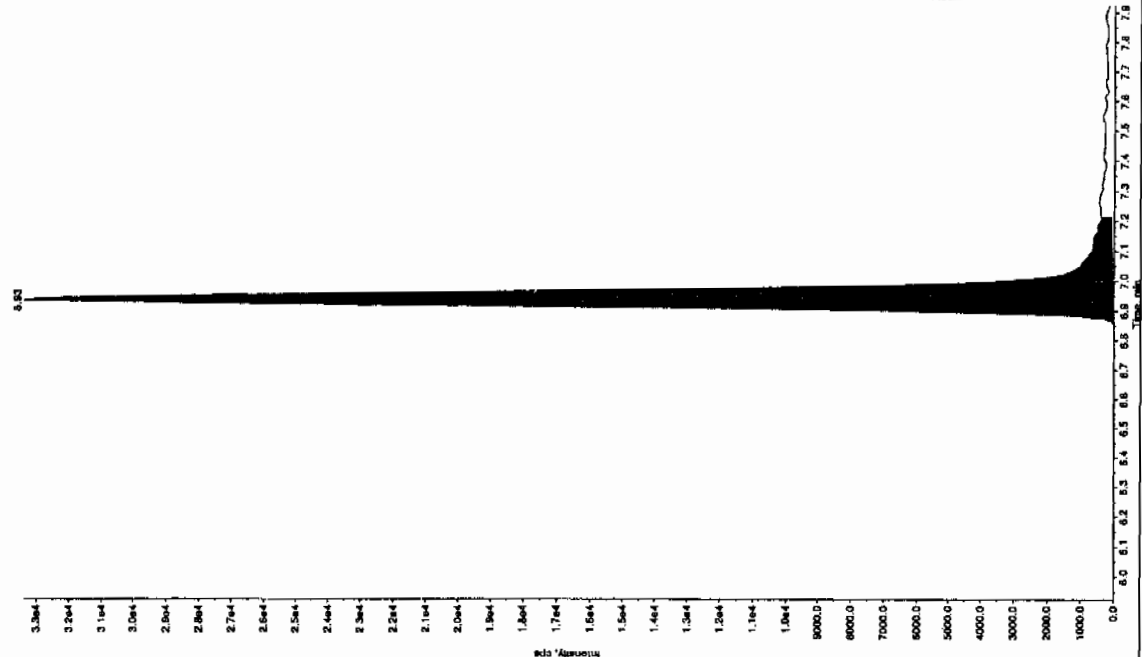
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 3116/10

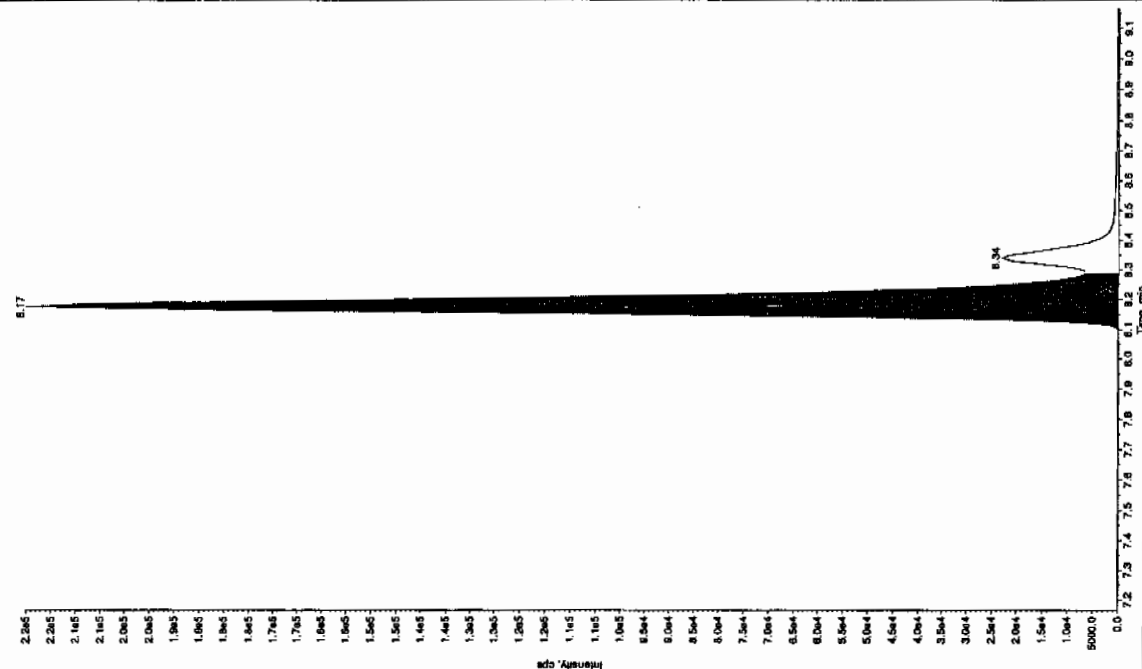
Sample Name: "WXX10012709" Sample ID: "1118" File: "EXS0120026.wif"
 Peak Name: "TATB" Mass(es): "257.22048 amu"
 Comment: "LCMS-EXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 100 ng/mL
 Concentrated Conc: 103 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:33:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 1.34e+005 counts
 Height: 33340.420 cps
 Start Time: 5.84 min
 End Time: 7.21 min



Sample Name: "WXX10012709" Sample ID: "1118" File: "EXS0120026.wif"
 Peak Name: "35-Dihloroaniline" Mass(es): "182.0460 amu"
 Comment: "LCMS-EXP_C" Annotation: "

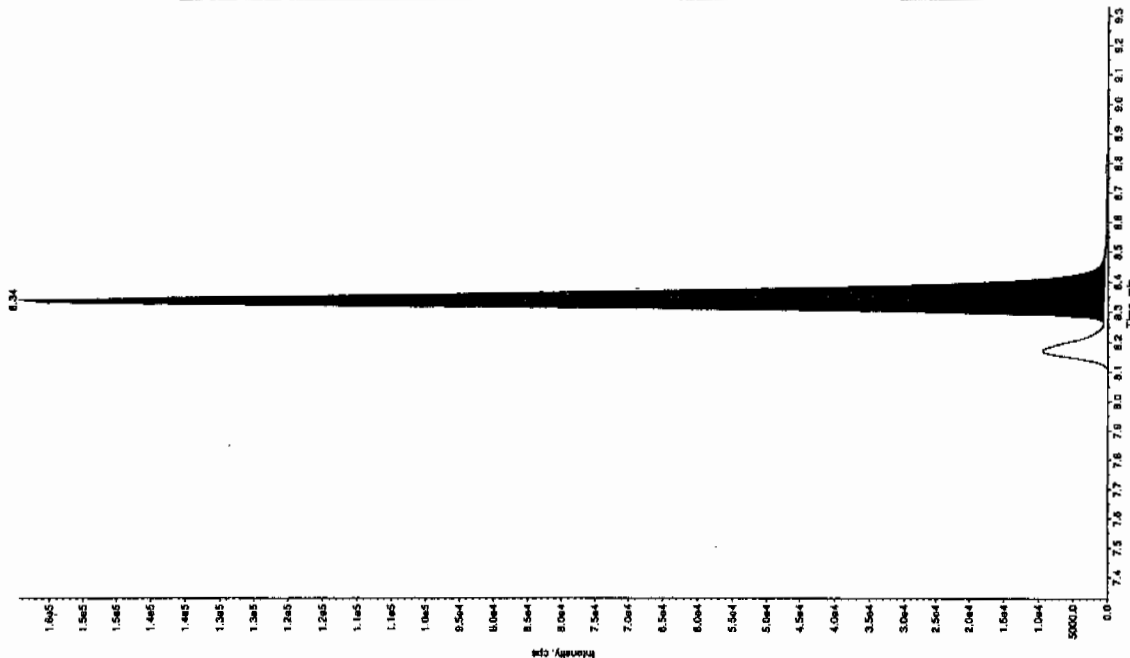
Sample Index: 1 QC
 Sample Type: 100 ng/mL
 Concentrated Conc: 108 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:33:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 8.67e+005 counts
 Height: 219879.761 cps
 Start Time: 8.08 min
 End Time: 8.29 min



Run 3117/10

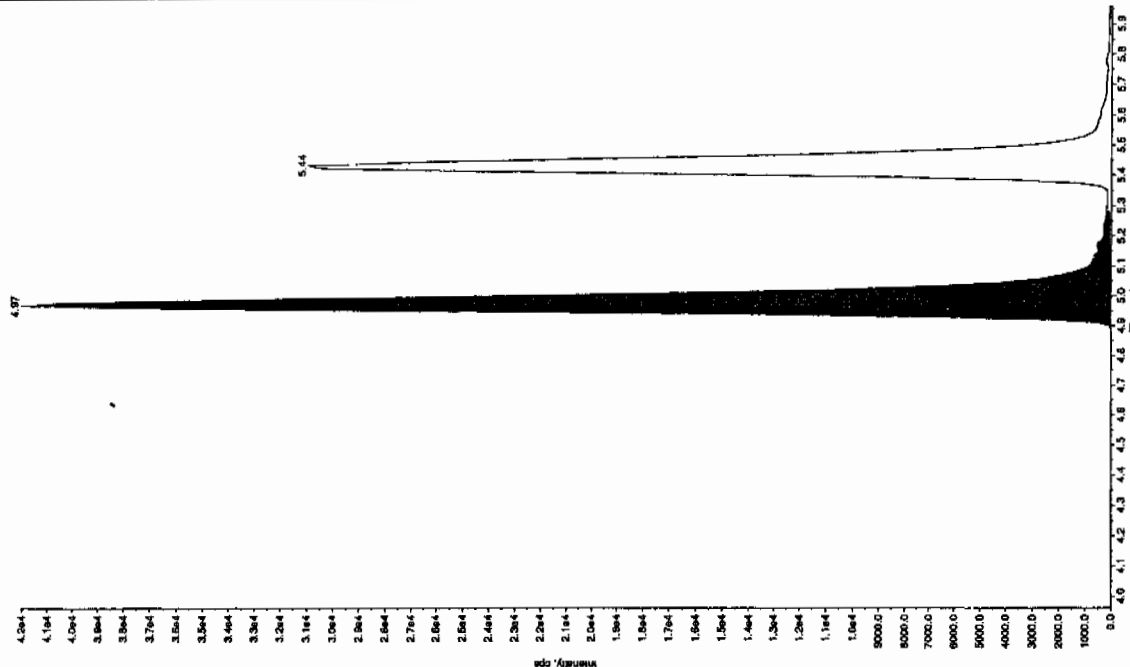
Sample Name: "WXX100312-27CR" Sample ID: "1LER" File: "EXS0312026.wif"
 Peak Name: "34-Diamino-4-nitrobenzene" Mass(es): "162.17/151.9 amu"
 Comment: "LOMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 50.9 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:33:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Peak Height: 5.76e+034 counts
 Peak Area: 158920.415 cps
 Start Time: 8.26 min
 End Time: 8.45 min



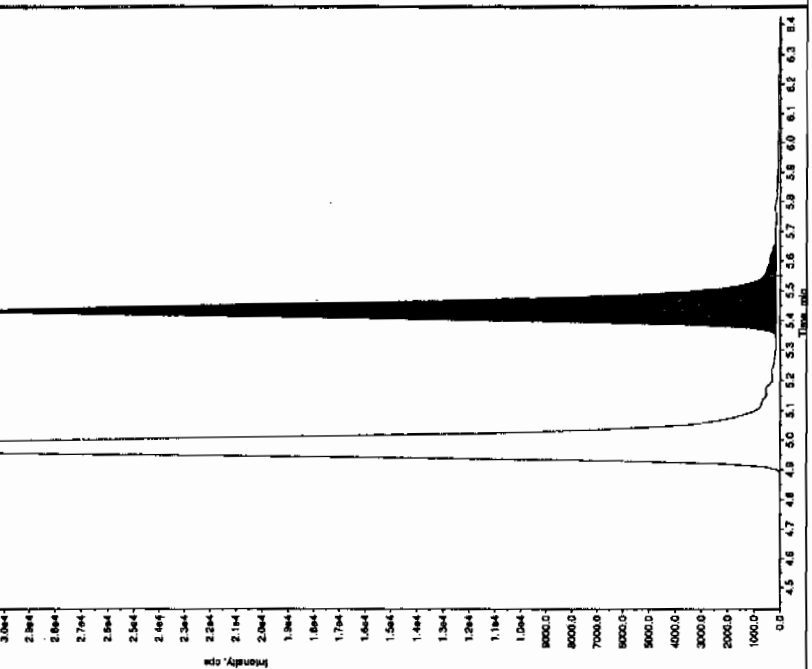
Sample Name: "WXX100312-27CR" Sample ID: "1LER" File: "EXS0312026.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "166.04/6.0 amu"
 Comment: "LOMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 114 ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:33:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Peak Height: 1.77e+035 counts
 Peak Area: 42021.068 cps
 Start Time: 4.88 min
 End Time: 5.28 min



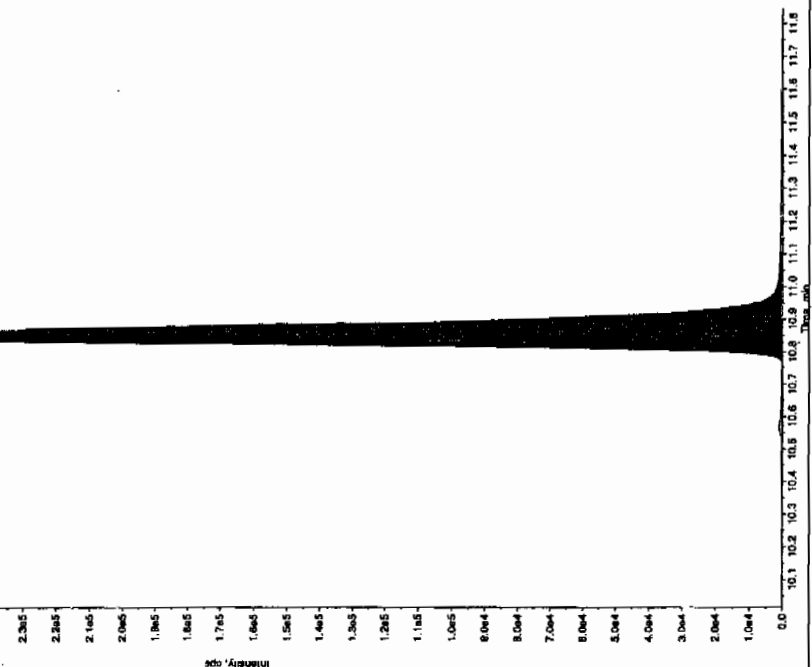
Sample Name: "WXX100312-2701" Sample ID: "111ER" File: "EX503120026.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 110. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:31:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 3.00 sec
 Ret. Width: 30.0 sec
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.44 min
 Area: 1.24e+005 counts
 Height: 30803.143 cps
 Start Time: 5.31 min
 End Time: 5.75 min



Sample Name: "WXX100312-2701" Sample ID: "111ER" File: "EX503120026.wif"
 Peak Name: "1,1-di(4-oxocyclohexyl) phosphine" Mass(es): "359.151.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 103. ng/mL
 Acq. Date: 3/12/2010
 Acq. Time: 10:33:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 800.00 cps
 Min. Peak Width: 3.00 sec
 Ret. Width: 30.0 sec
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.28e+006 counts
 Height: 329590.765 cps
 Start Time: 10.6 min
 End Time: 11.1 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03120037.wiff

Analysis Date: 13-MAR-10 01:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	635	127	
2,6-Diamino-4-nitrotoluene	500	626	125	
3,4-Dinitrotoluene	250	260	104	
3,5-Dinitroaniline	500	544	109	
TATB	500	577	115	
tris(o-cresyl) phosphate	500	518	104	

Recovery Limits:

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

Other Target Analytes 80-120%

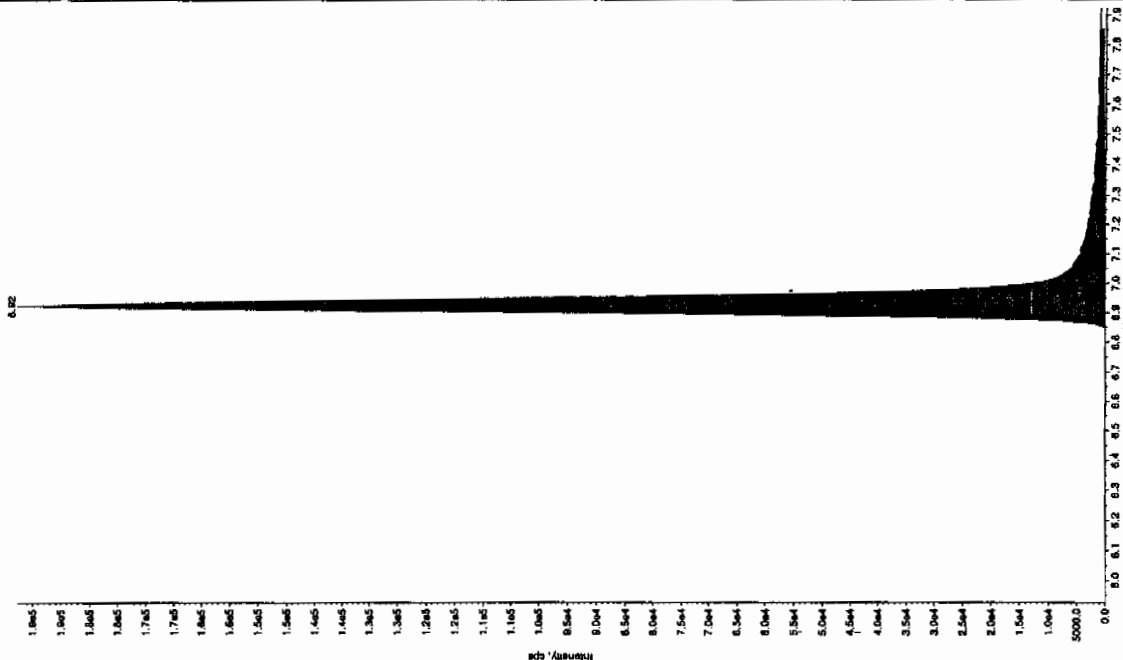
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3/16/10

Sample Name: WXX100312-260CV Sample ID: 111ER File: EXS03120037.wif
Peak Name: 1A1B Mass(es): 257.2204.9 amu
Comment: LCMSEXP_C Annotation:

Sample Index: 1 QC
Sample Type: 500. ng/mL
Concentration: 577. ng/mL
Calculated Conc: 3/13/2010
Acq. Date: 1:26:08 AM
Acq. Time: 1:26:08 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 8.92 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.136 min
Area: 192503.683 counts
Height: 6.83 min
Start Time: 7.85 min
End Time: 8.29 min



Sample Name: WXX100312-260CV Sample ID: 111ER File: EXS03120037.wif
Peak Name: 3C-Dinitrophenol Mass(es): 182.046.0 amu
Comment: LCMSEXP_C Annotation:

Sample Index: 1 QC
Sample Type: 500. ng/mL
Concentration: 529. ng/mL
Calculated Conc: 3/13/2010
Acq. Date: 1:26:08 AM
Acq. Time: 1:26:08 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.16 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.16 min
Area: 1059255.615 counts
Height: 8.09 min
Start Time: 8.09 min
End Time: 8.29 min

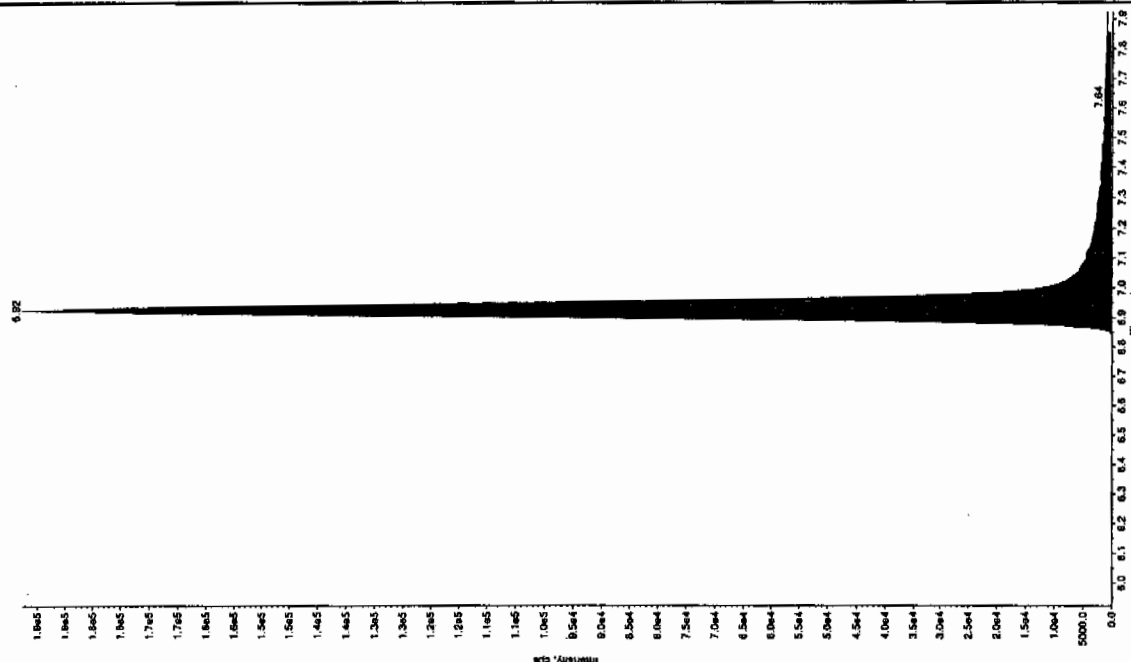


Jan 03/17/10

after Jan 31/10/10

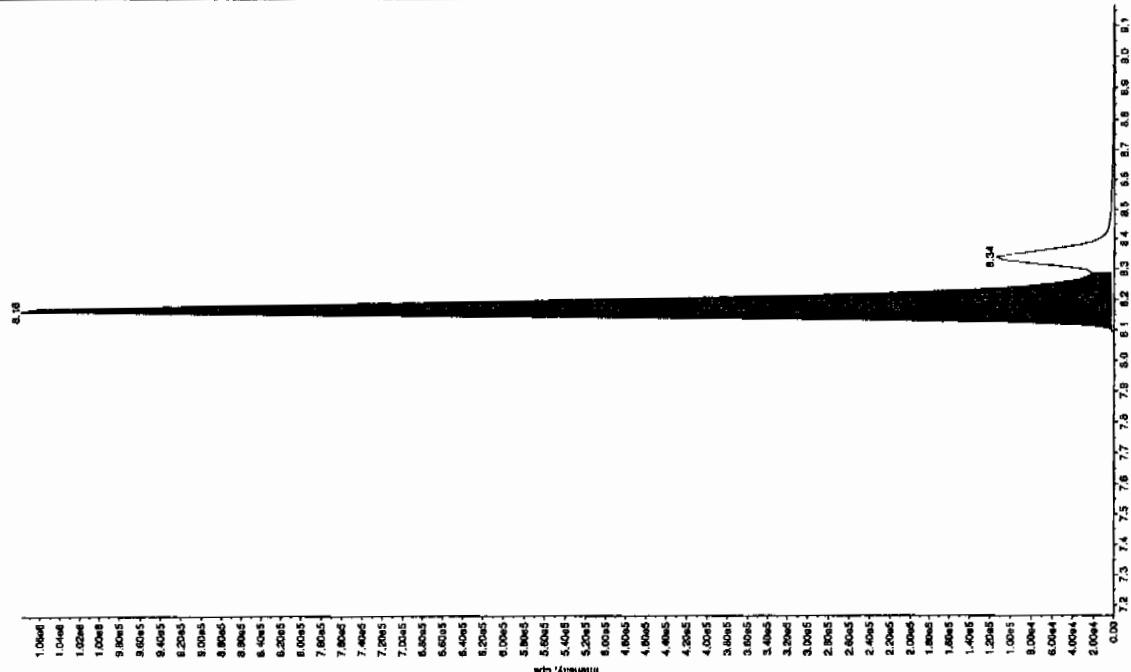
Sample Name: "WXX100312-260CV" Sample ID: "1111ER" File: "EXS03120037.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMSEXP_C" Annotation: "

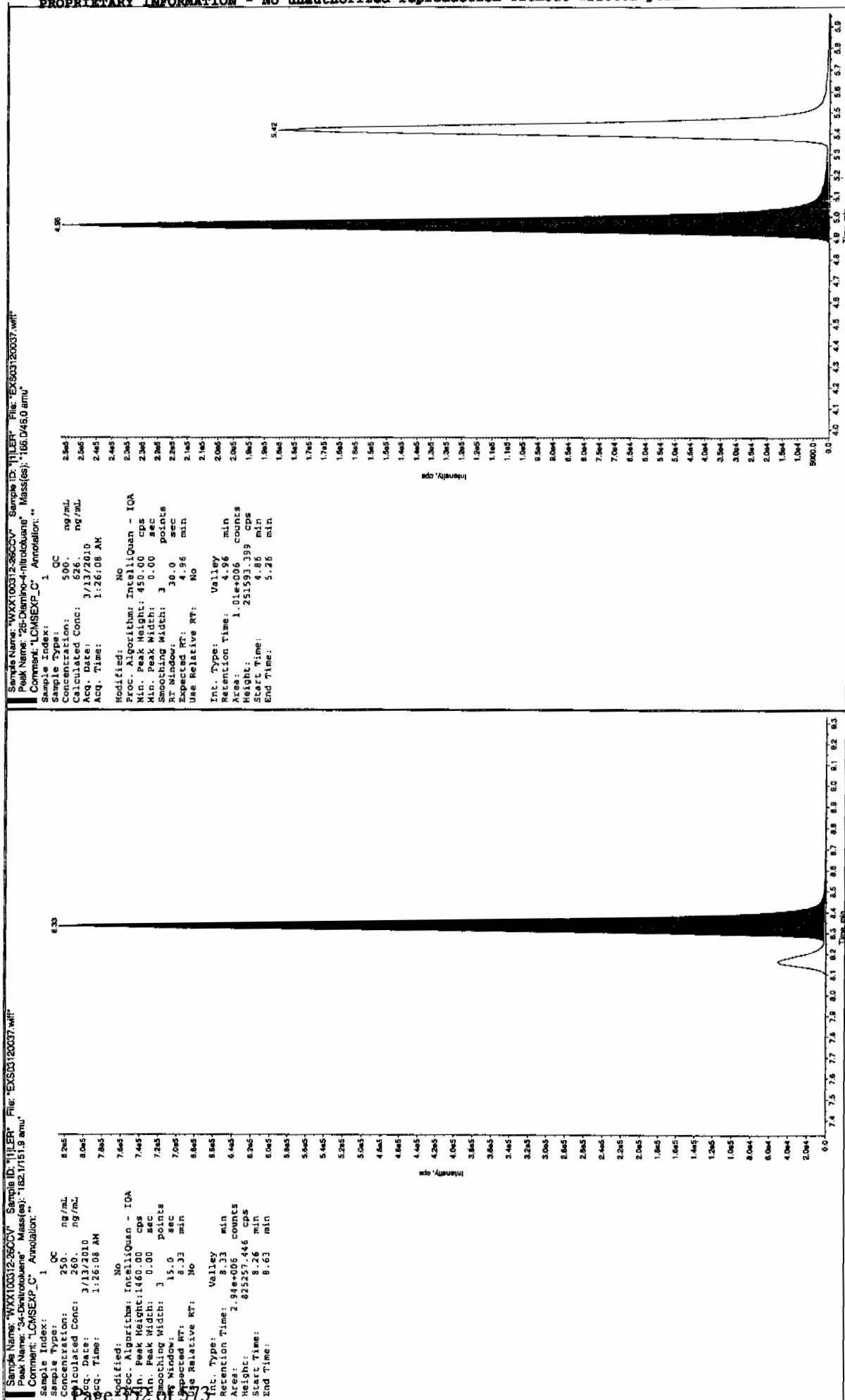
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 577. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:26:08 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Peak Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.92 min
 Area: 8.13e+005 counts
 Height: 192603.683 cps
 Start Time: 6.83 min
 End Time: 7.03 min



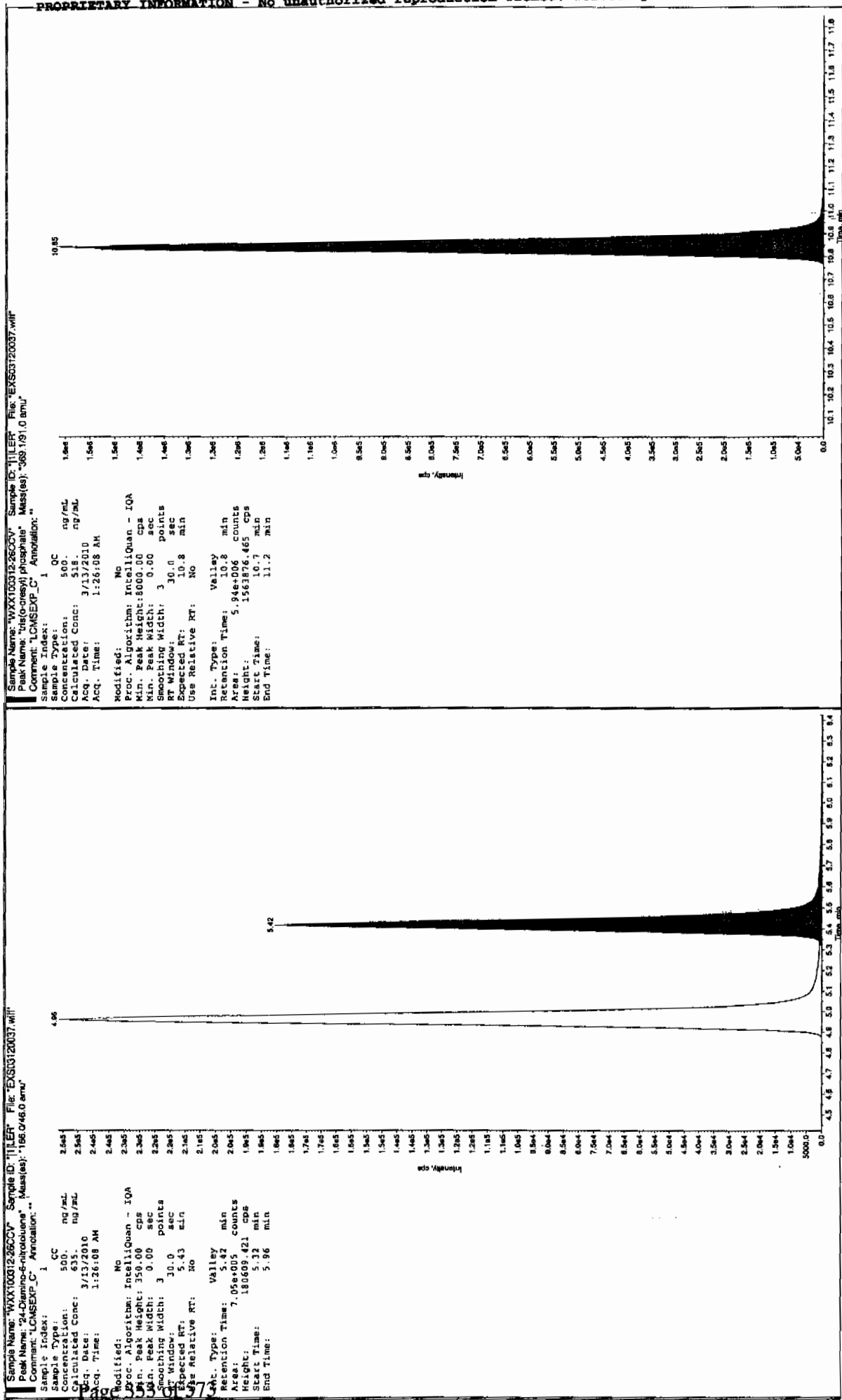
Sample Name: "WXX100312-260CV" Sample ID: "1111ER" File: "EXS03120037.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): 182.0450.0 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 874. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:26:08 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.17 min
 Area: 4.20e+006 counts
 Height: 1095470.970 cps
 Start Time: 8.09 min
 End Time: 8.29 min





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



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03120039.wiff

Analysis Date: 13-MAR-10 01:57

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	119	119	
2,6-Diamino-4-nitrotoluene	100	125	125	
3,4-Dinitrotoluene	50	53.3	107	
3,5-Dinitroaniline	100	112	112	
TATB	100	111	111	
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%

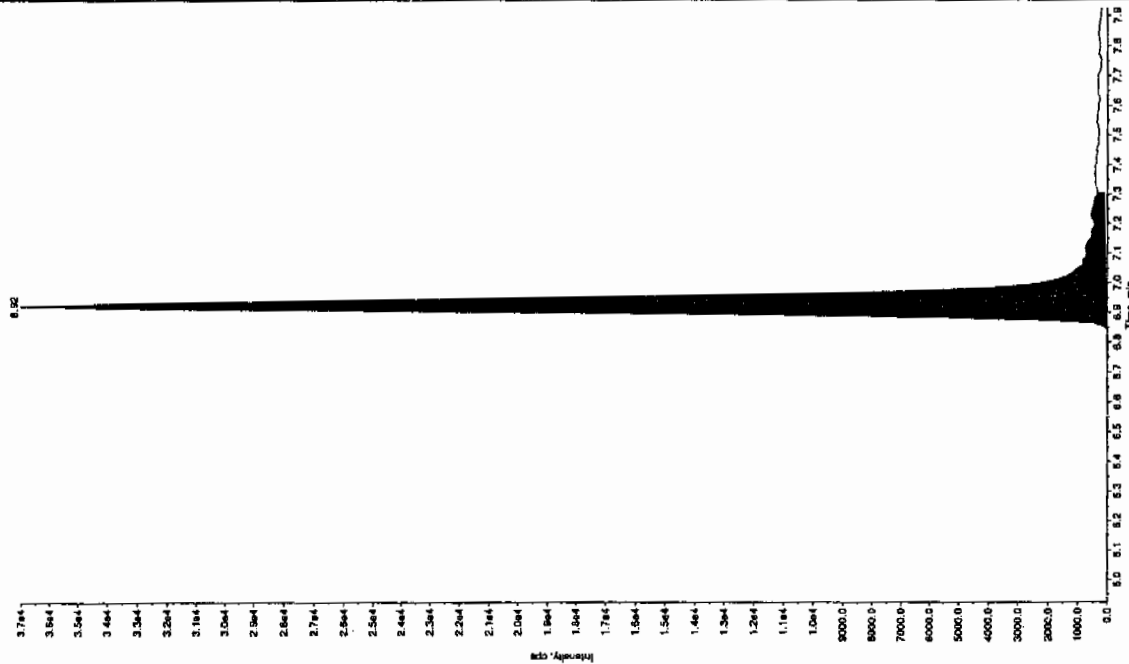
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Lat 3/10/10

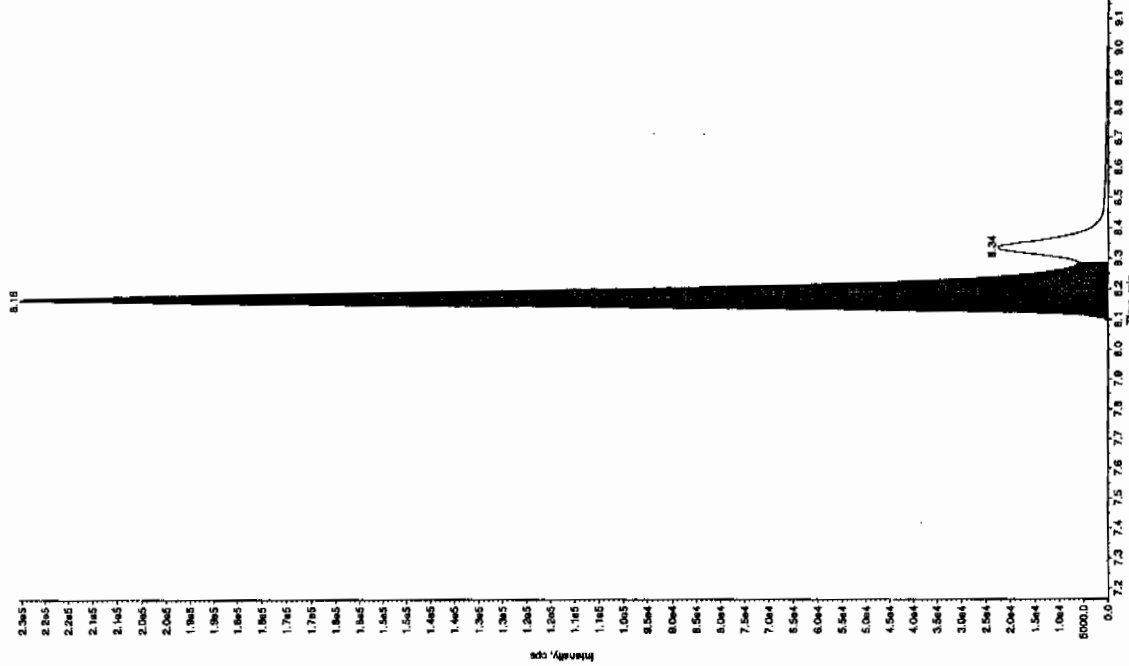
Sample Name: "WXX100312-2709" Sample ID: "HILB" File: "EX503120039.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 3/13/2010
 Acq. Time: 1:57:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.92 min
 Area: 1.45e+005 counts
 Height: 35982.277 cps
 Start Time: 6.83 min
 End Time: 7.31 min



Sample Name: "WXX100312-2709" Sample ID: "HILB" File: "EX503120039.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

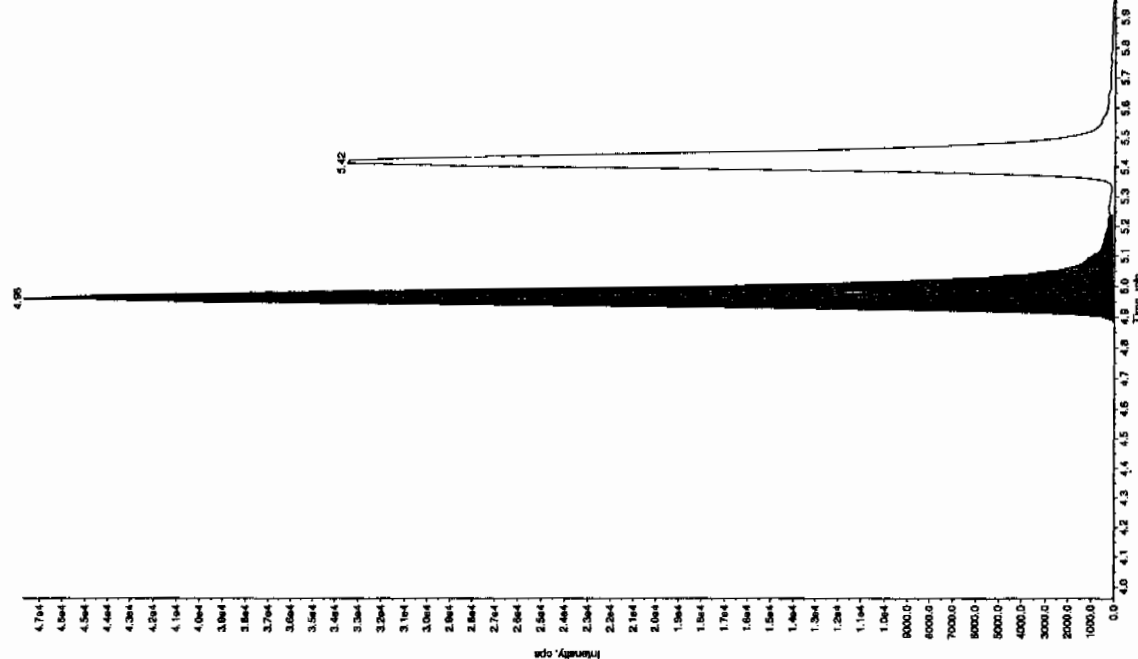
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 3/13/2010
 Acq. Time: 1:57:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.16 min
 Area: 8.98e+005 counts
 Height: 22531.328 cps
 Start Time: 8.07 min
 End Time: 8.29 min



4/11/03/17/10

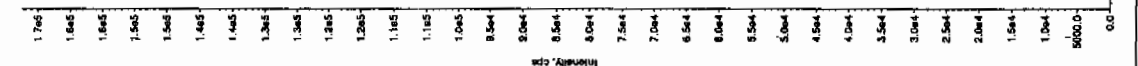
Sample Name: "WXX1003122709" Sample ID: "11LEP" File: "EX50312009.wif"
 Peak Name: "75.0464-nitrobenz" Mass(es): 166.0464 amu
 Concentration: "LCMSXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 100 ng/mL
 Calculated Conc: 3/13/2010 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:57:33 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: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Height: 1.95e+005 counts
 Start Time: 4.87 min
 End Time: 5.24 min



Sample Name: "WXX1003122709" Sample ID: "11LEP" File: "EX50312009.wif"
 Peak Name: "75.0464-nitrobenz" Mass(es): 166.0464 amu
 Concentration: "LCMSXP_C" Annotation: "

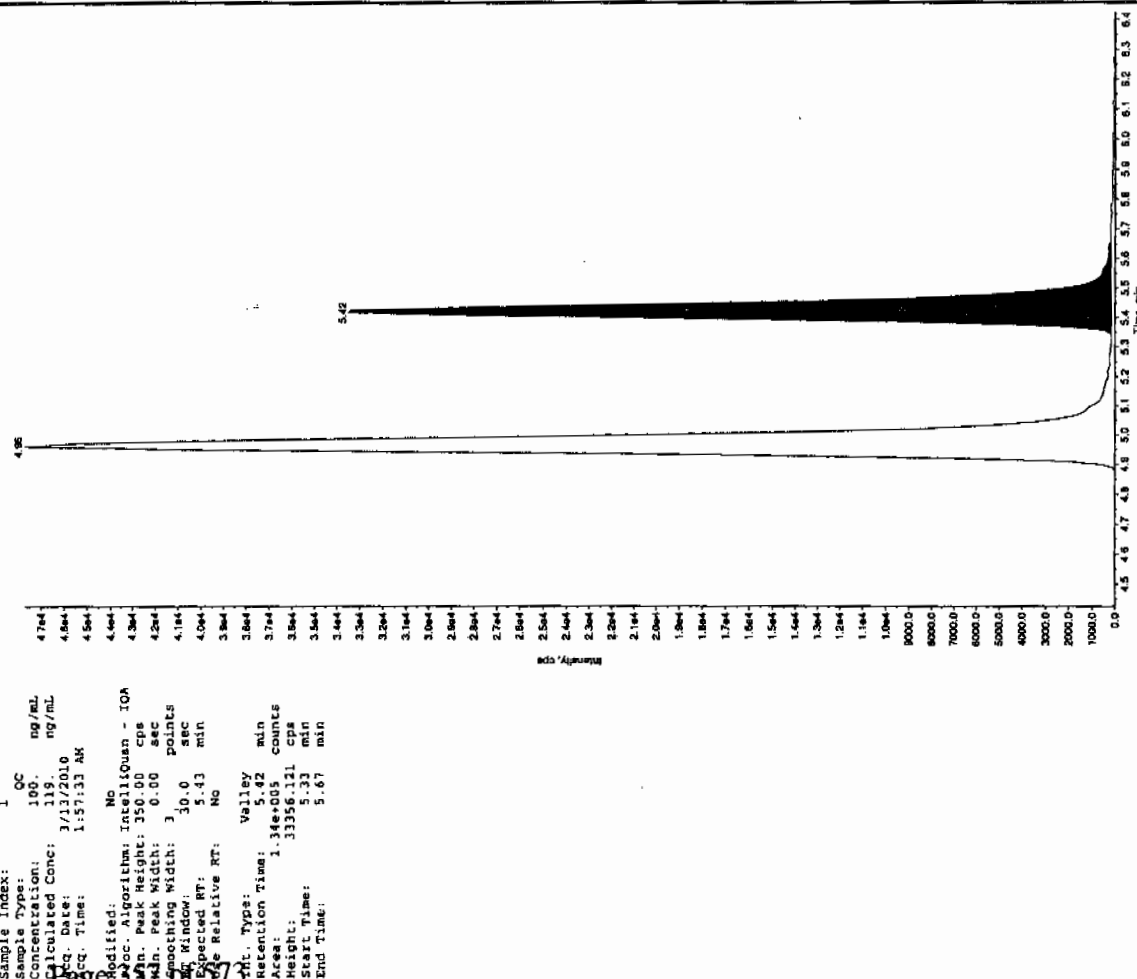
Sample Index: 1 QC
 Sample Type: 50.0 ng/mL
 Calculated Conc: 3/13/2010 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:57:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Height: 6.05e+005 counts
 Start Time: 8.26 min
 End Time: 8.58 min



Sample Name: "WXX10012-27.CRF" Sample ID: "11157" File: "EXS0120035.wif"
 Peak Name: "11157" Retention Time: 11.2 min
 Concentration: 100.00 ng/mL
 Comment: "LCMS-EXP-C" Annotation: "

Sample Name: "WXX10012-27.CRF" Sample ID: "11157" File: "EXS0120035.wif"
 Peak Name: "11157" Retention Time: 11.2 min
 Concentration: 100.00 ng/mL
 Comment: "LCMS-EXP-C" Annotation: "

Sample Index: 1
 Sample Name: 11157
 Concentration: 100.00 ng/mL
 Calculated Conc: 100.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 1:57:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 11.2 min
 Peak Height: 1324006 counts
 Peak Area: 333039.642 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03120050.wiff

Analysis Date: 13-MAR-10 04:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	603	121	
2,6-Diamino-4-nitrotoluene	500	597	119	
3,4-Dinitrotoluene	250	256	103	
3,5-Dinitroaniline	500	557	111	
TATB	500	582	116	
tris(o-cresyl) phosphate	500	542	108	

Recovery Limits:

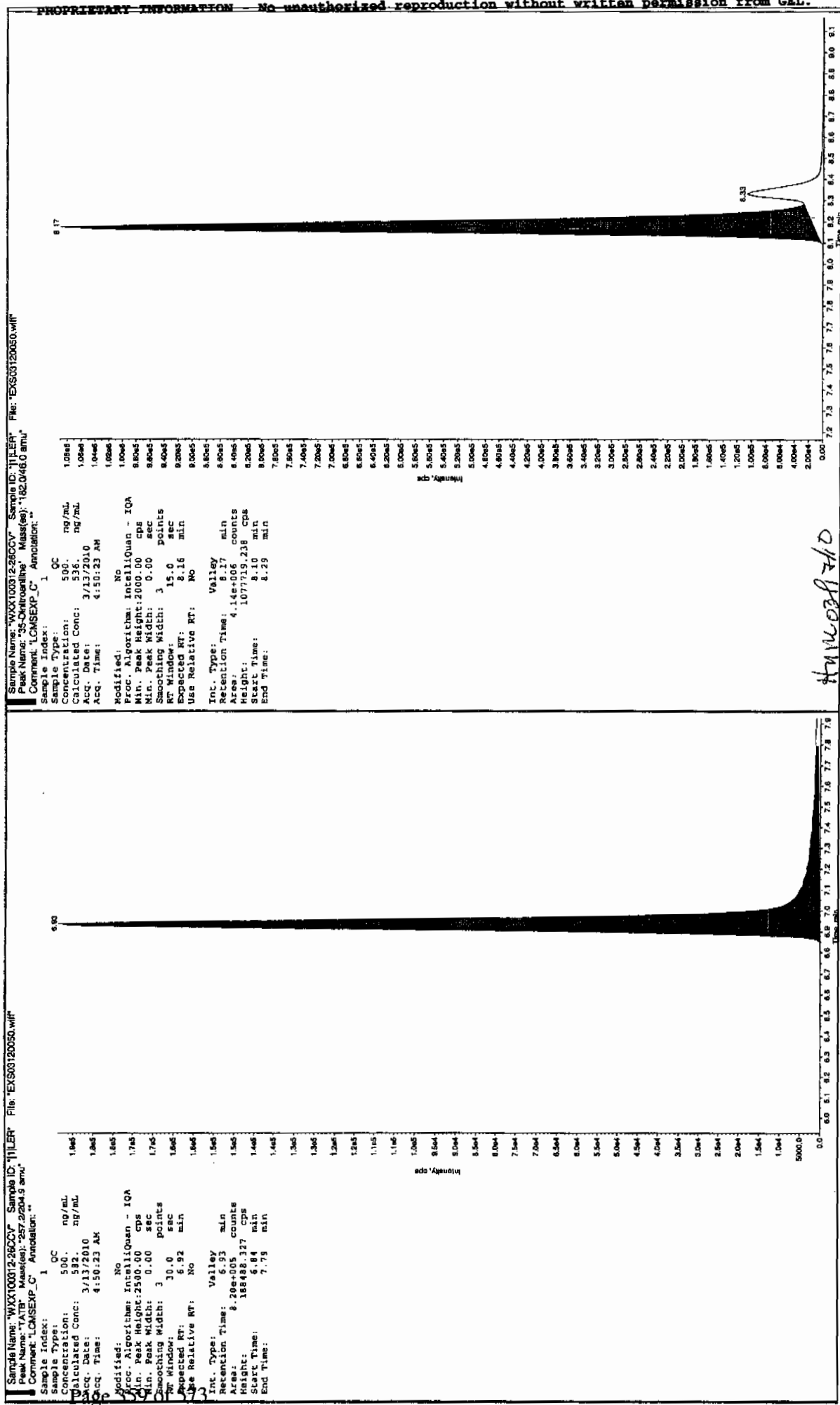
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

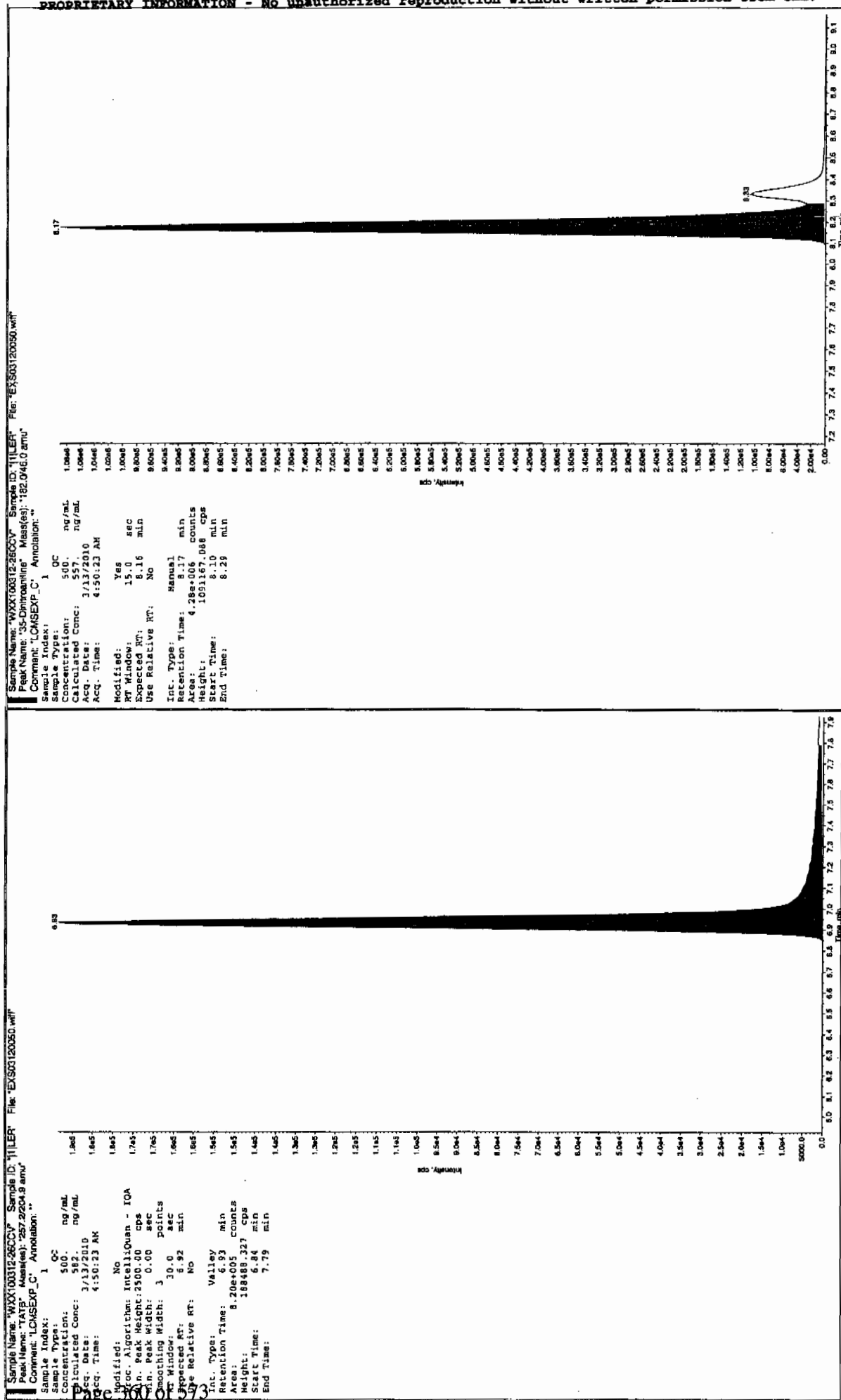
Column used to flag Recovery outside of Limits

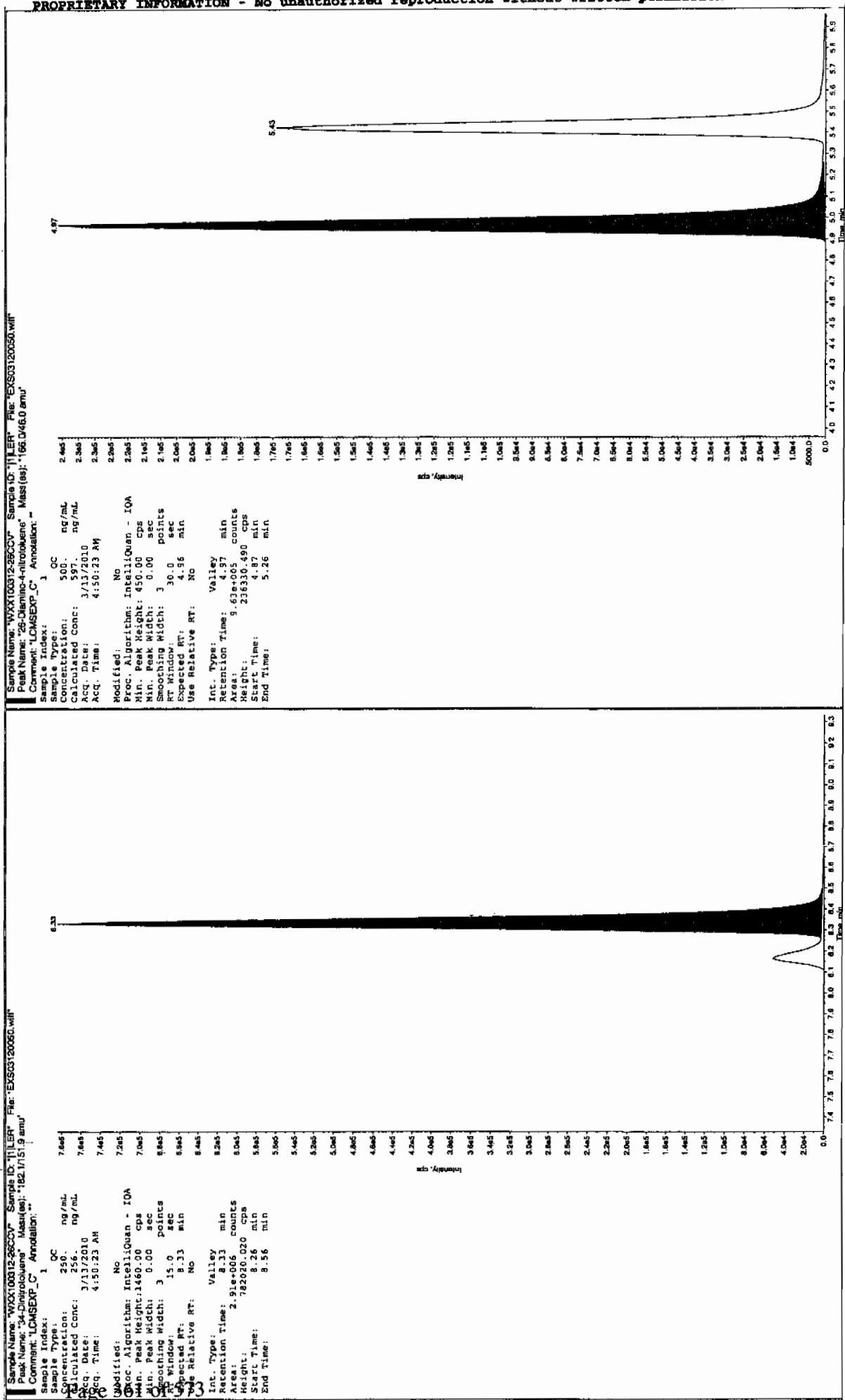
* Value outside of Recovery Limits

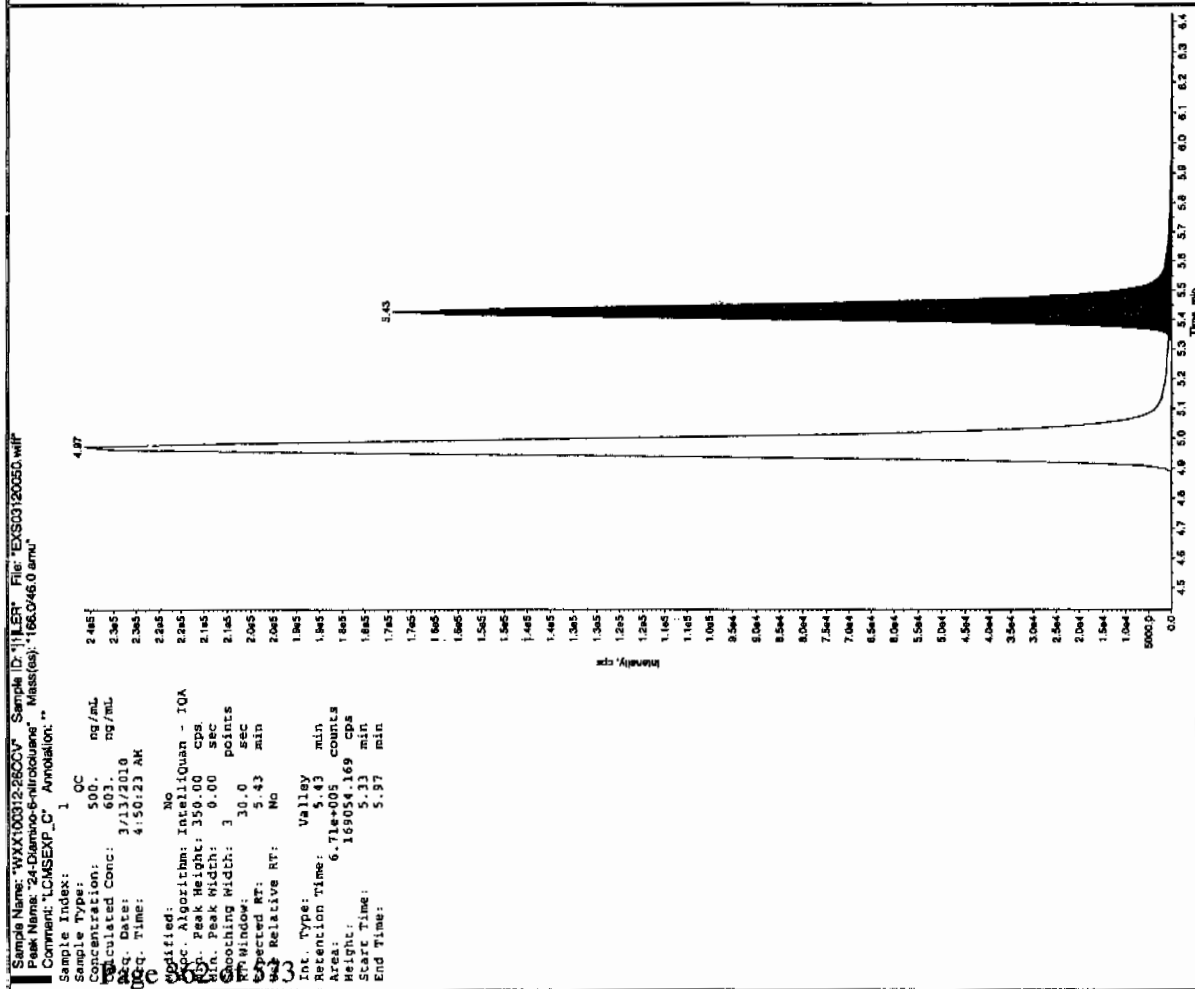
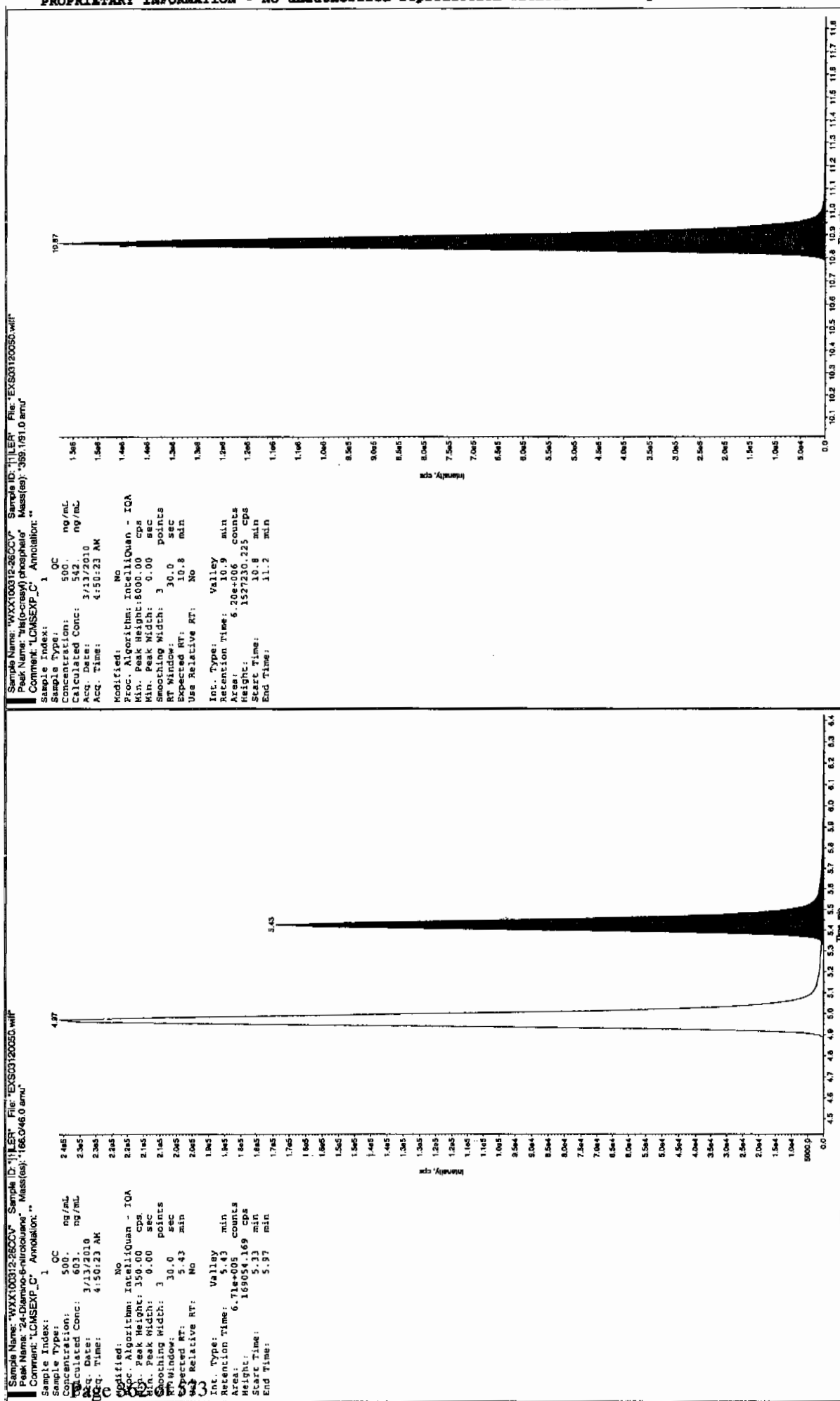
Before Jan 3/16/10



after Jan 31/6/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03120052.wiff

Analysis Date: 13-MAR-10 05:21

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	100	109	109	
2,4-Diamino-6-nitrotoluene	100	119	119	
2,6-Diamino-4-nitrotoluene	100	124	124	
3,4-Dinitrotoluene	50	53.1	106	
3,5-Dinitroaniline	100	113	113	
TATB	100	112	112	

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

Scan 3/16/10

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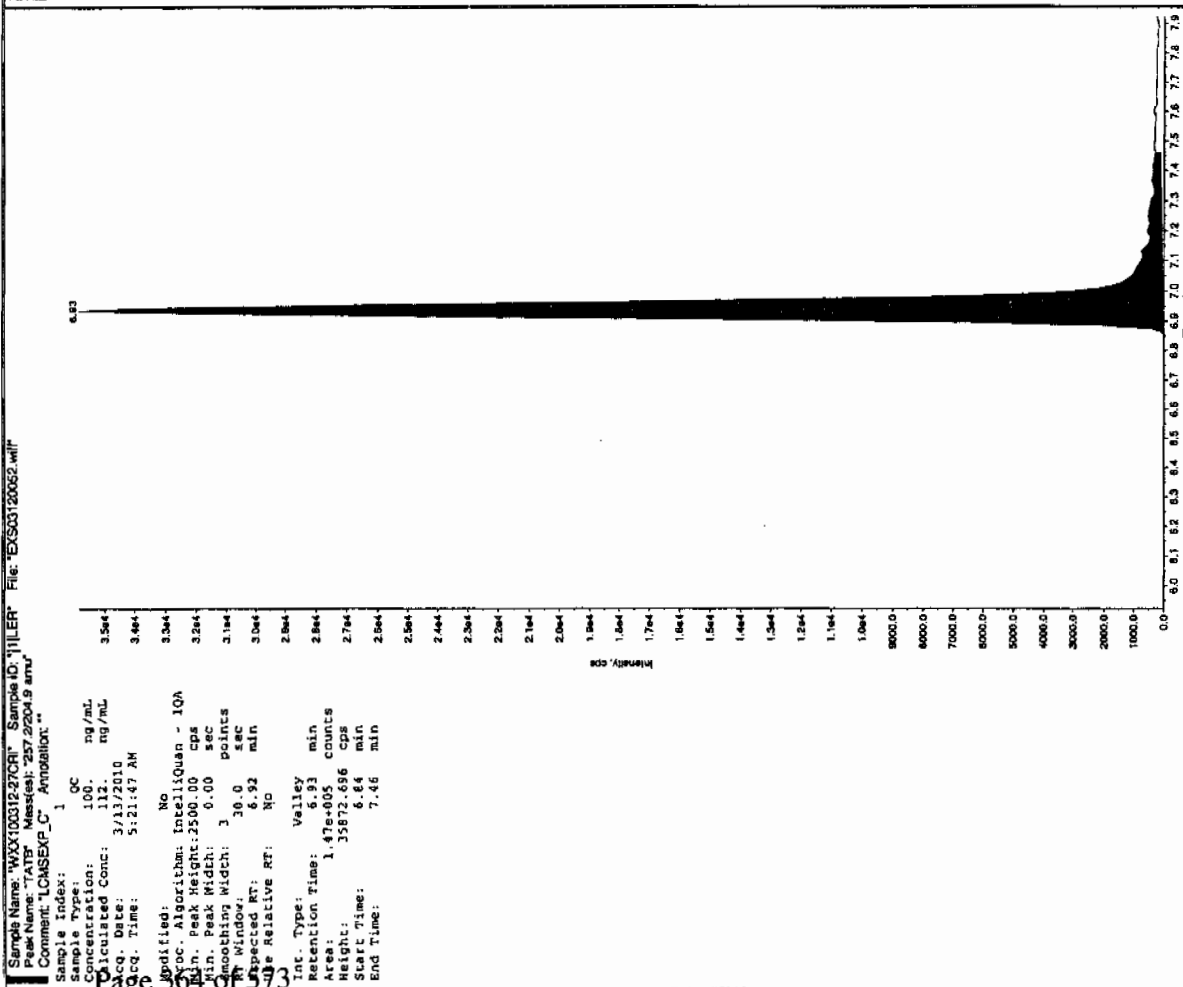
Sample Name: "WXX100312-27C1" Sample ID: "111ER" File: "EXS03120052.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 113. ng/mL
Acq. Date: 3/13/2010
Acq. Time: 5:21:47 AM

Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 3.00 sec
Smoothing Width: 3.00 points
RT Window: 15.0 sec
Expected RT: 8.16 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.17 min
Area: 9.04e+005 counts
Height: 227722.427 cps
Start Time: 8.02 min
End Time: 8.30 min

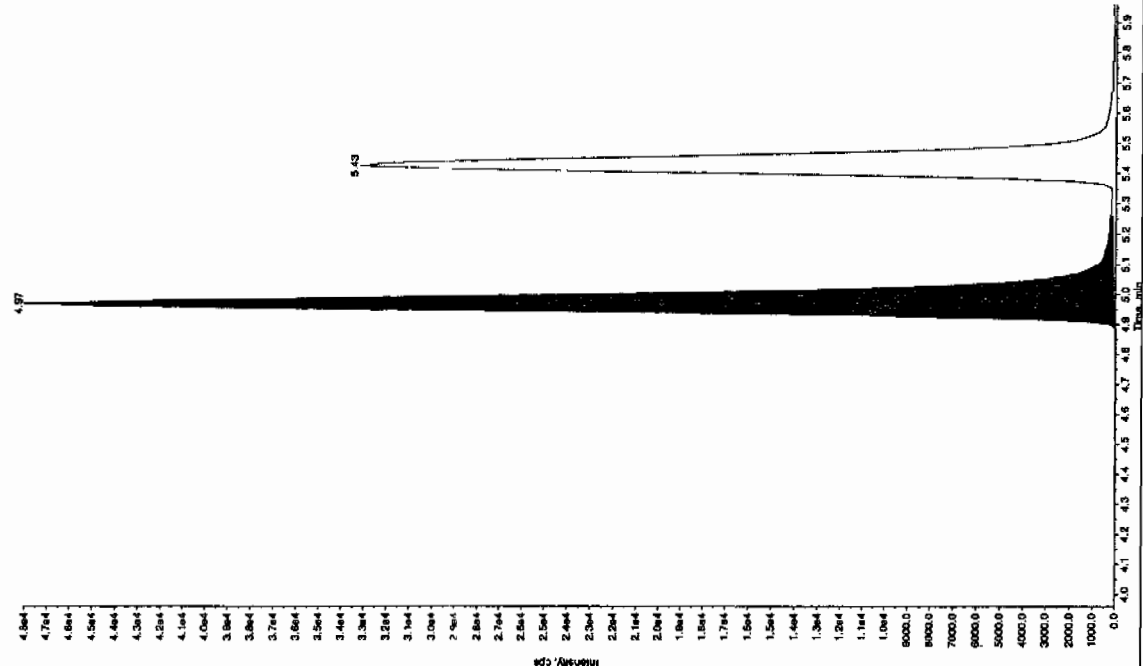


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100312-27C91" Sample ID: "11LER" File: "EX903120052.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 5/21/47 AM
 Acq. Time: 5:21:47 AM

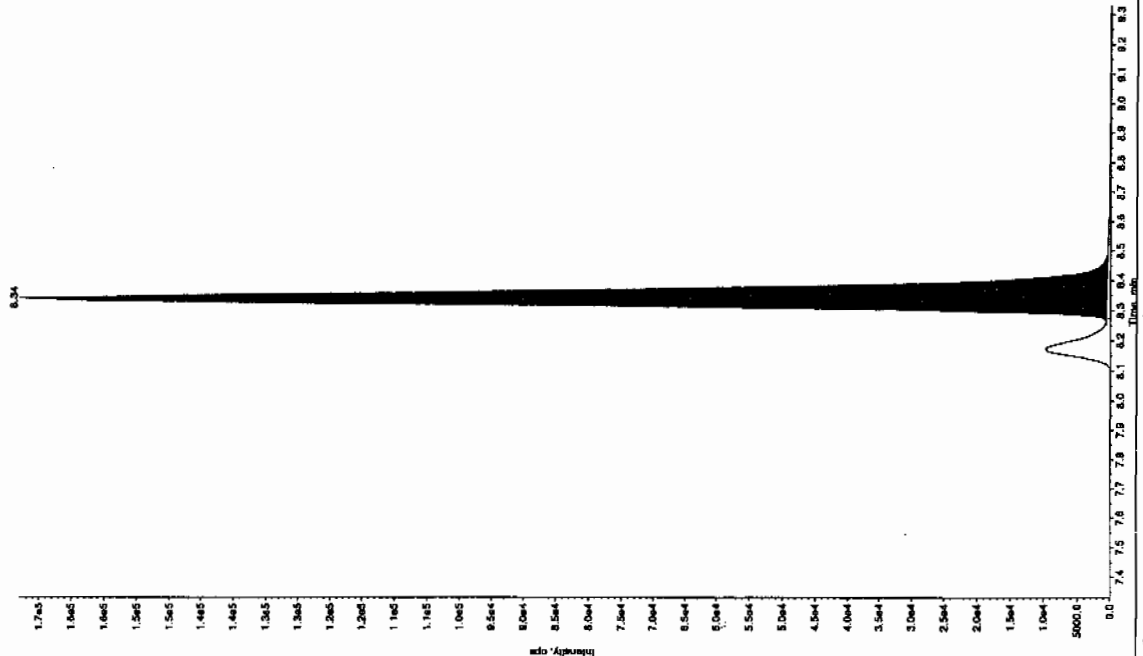
Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Area: 1.93e+005 counts
 Height: 47970.289 cps
 Start Time: 4.85 min
 End Time: 5.26 min

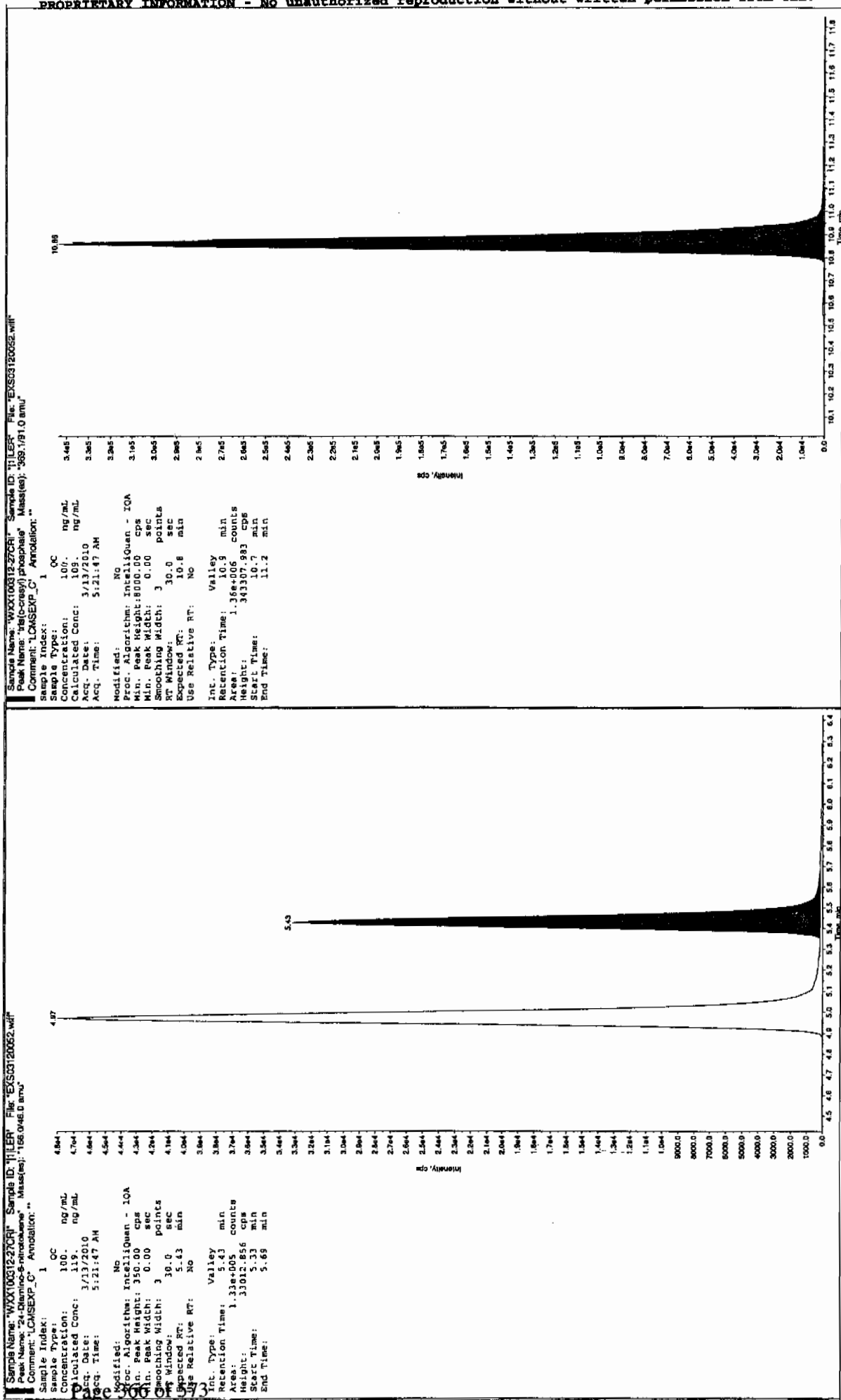


Sample Name: "WXX100312-27C91" Sample ID: "11LER" File: "EX903120052.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 53.1 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 5:21:47 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 6.09e+005 counts
 Height: 187410.035 cps
 Start Time: 8.27 min
 End Time: 8.55 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03120063.wiff

Analysis Date: 13-MAR-10 08:14

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	500	583	117	
tris(o-cresyl) phosphate	500	577	115	
2,4-Diamino-6-nitrotoluene	500	602	120	
2,6-Diamino-4-nitrotoluene	500	603	121	
3,4-Dinitrotoluene	250	271	108	
3,5-Dinitroaniline	500	570	114	

Recovery Limits:

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

Other Target Analytes 80-120%

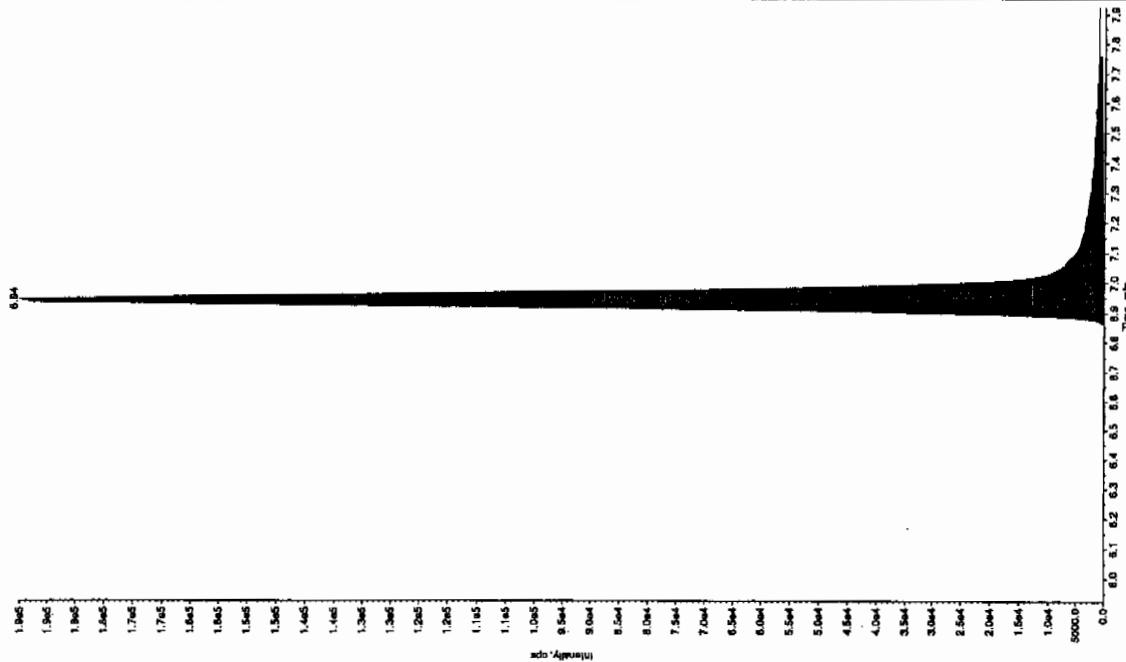
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Len 3/16/10

Sample Name: "WXX100312-2603" Sample ID: "11LER" File: "EXS0312053.wit"
 Peak Name: "TATP" Mass(es): "257.2004.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 583. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:14:36 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 250.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.94 min
 Area: 8.22e+005 counts
 Height: 18993.607 cps
 Start Time: 6.84 min
 End Time: 7.76 min



Sample Name: "WXX100312-2603" Sample ID: "11LER" File: "EXS0312053.wit"
 Peak Name: "SS-Dihydroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 546. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:14:36 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 4.21e+006 counts
 Height: 1094389.404 cps
 Start Time: 8.11 min
 End Time: 8.29 min

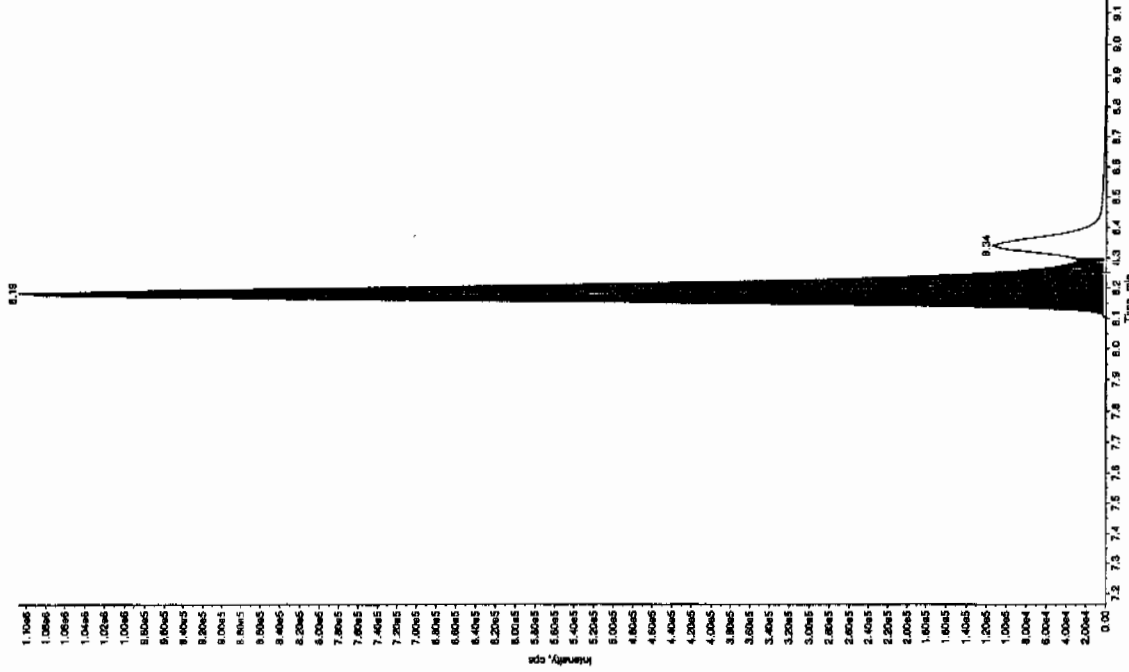


After 03/16/10

after Jan 31/10

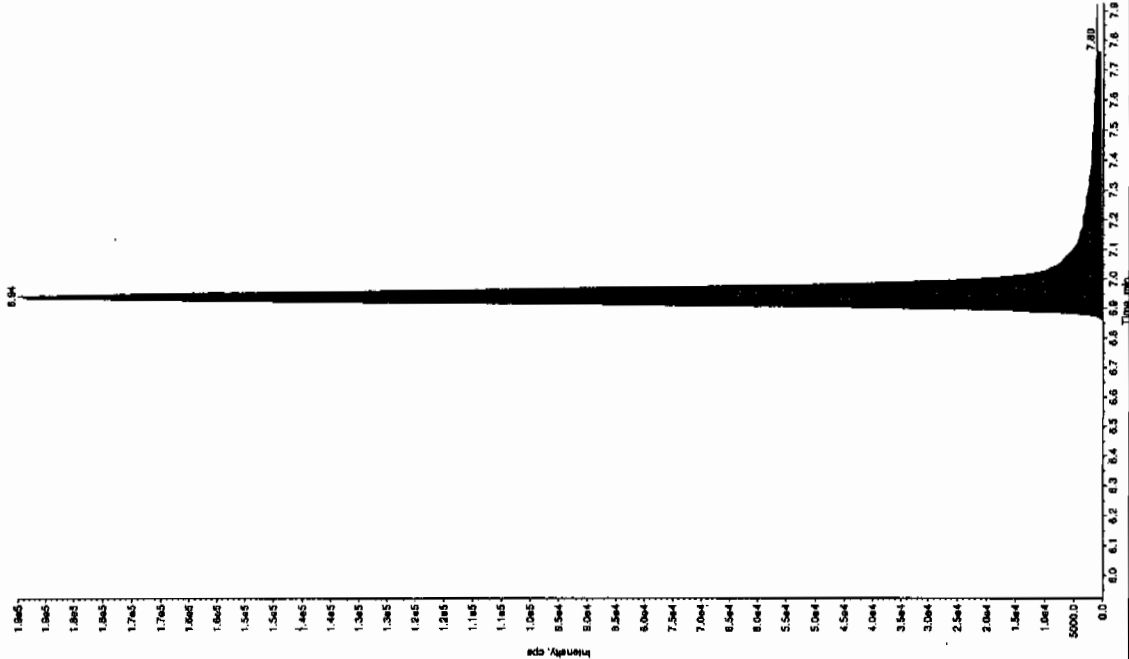
Sample Name: "WXX100312-260CV" Sample ID: "111ER" File: "EXS03120083.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 370. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:14:36 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.18 min
 Area: 4.38e+006 counts
 Height: 115608.833 cps
 Start Time: 8.10 min
 End Time: 8.30 min



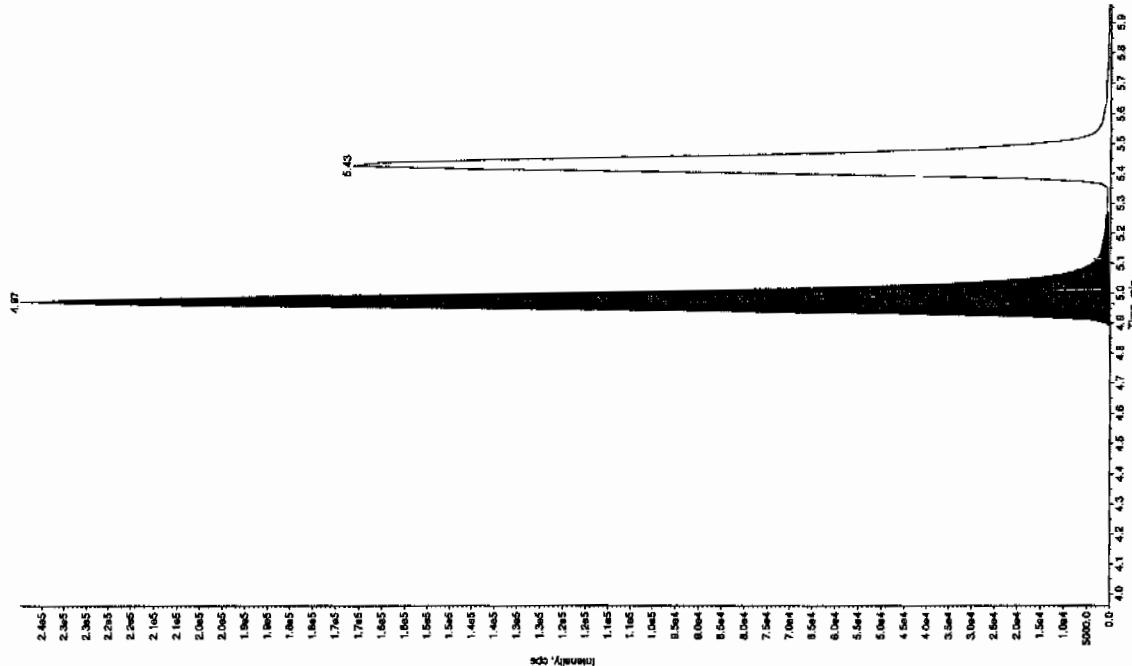
Sample Name: "WXX100312-260CV" Sample ID: "111ER" File: "EXS03120083.wif"
 Peak Name: "TATB" Mass(es): "257.2604.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 583. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:14:36 AM
 Modified: No
 Algorithm: IntelliQuan - IQA
 Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.94 min
 Area: 8.22e+005 counts
 Height: 189993.607 cps
 Start Time: 6.84 min
 End Time: 7.76 min



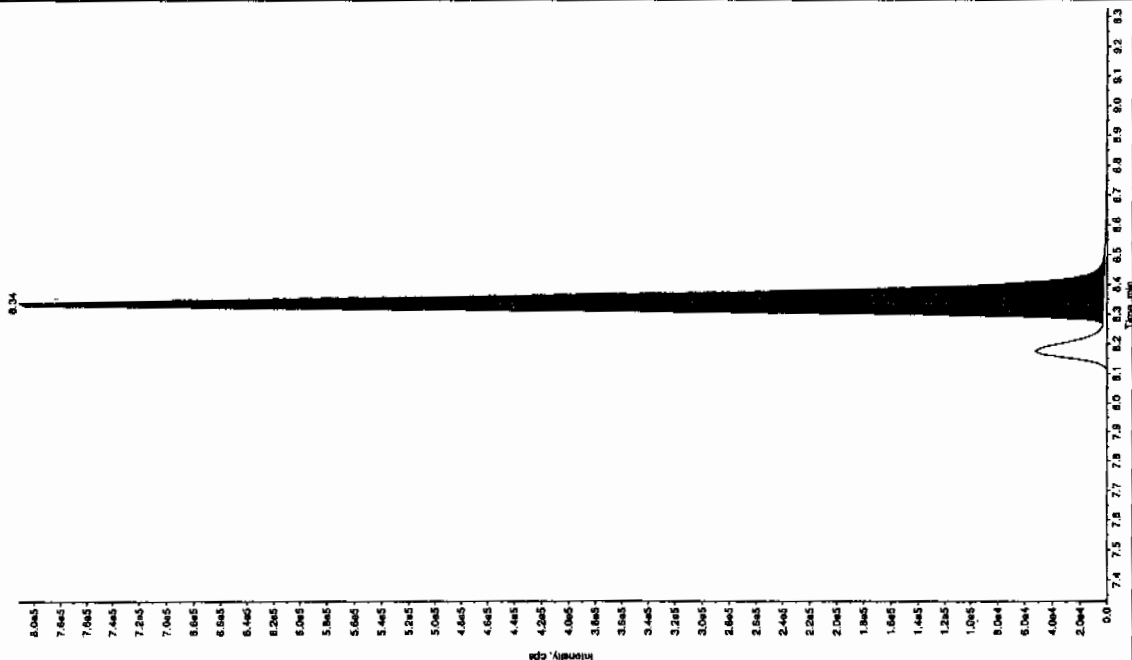
Sample Name: "WXX100312-26CV" Sample ID: "11ER" File: "EXS0312063.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "166.0460 amu"
 Comment: "LCMSEXP_C" Annotation: ""

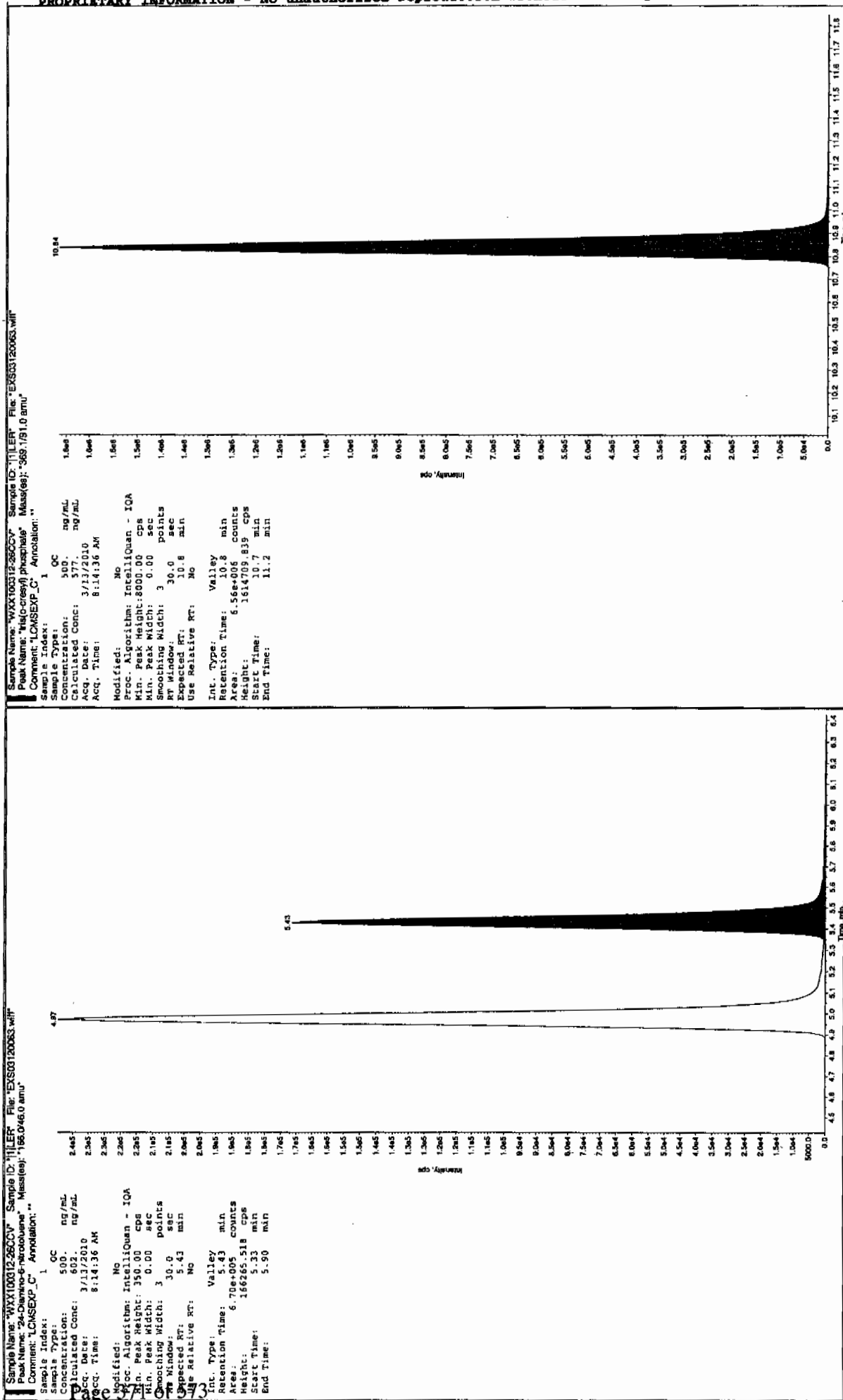
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 503. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:14:36 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Area: 9.72e+003 counts
 Height: 239753.234 cps
 Start Time: 4.58 min
 End Time: 5.27 min



Sample Name: "WXX100312-26CV" Sample ID: "11ER" File: "EXS0312063.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.11519 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 271. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:14:36 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 3.06e+005 counts
 Height: 608850.220 cps
 Start Time: 8.27 min
 End Time: 8.57 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03120065.wiff

Analysis Date: 13-MAR-10 08:46

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	126	126	
3,4-Dinitrotoluene	50	52.7	105	
3,5-Dinitroaniline	100	115	115	
TATB	100	114	114	
tris(o-cresyl) phosphate	100	114	114	

Recovery Limits:

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

Other Target Analytes 70-130%

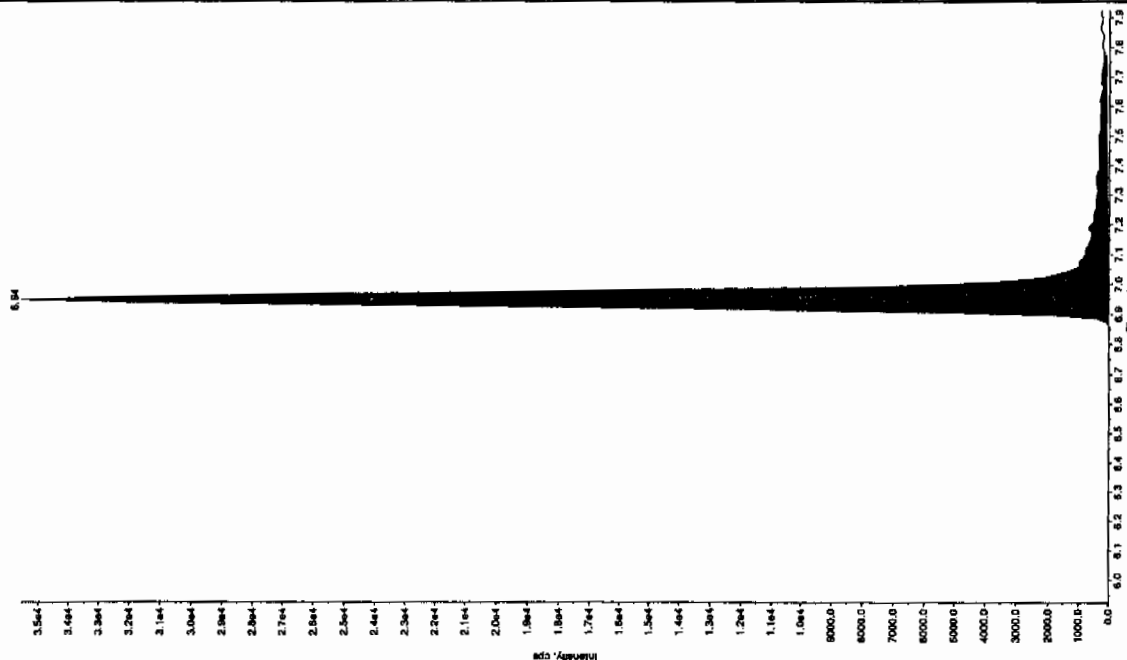
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 3/16/10

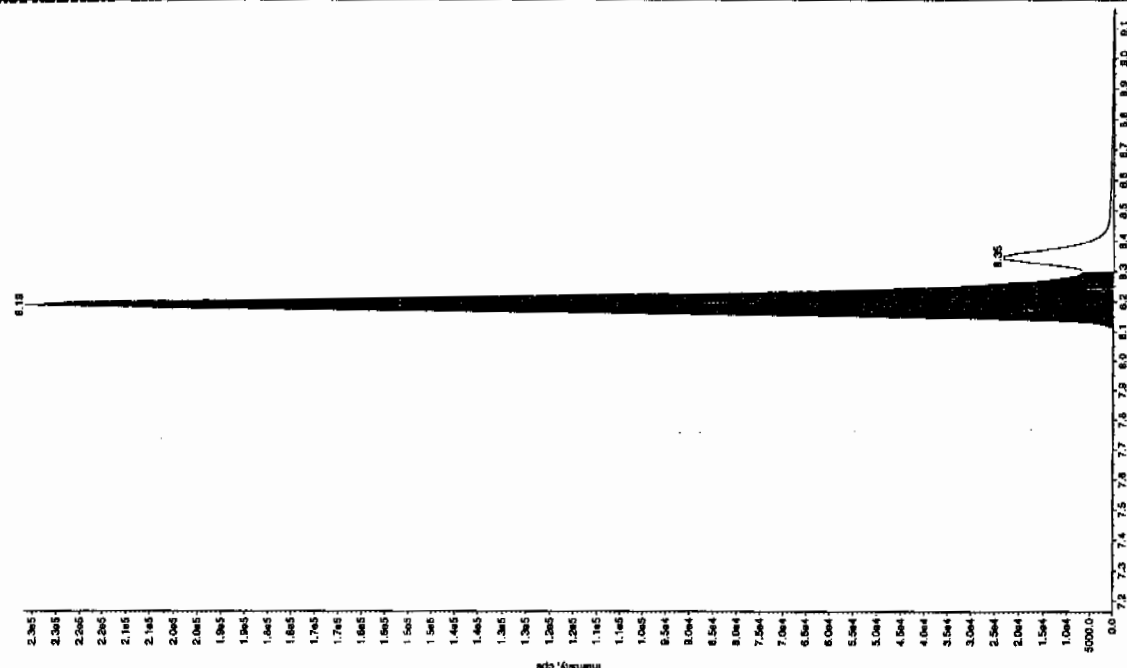
Sample Name: "WXX1001237C9" Sample ID: "1LER" File: "EX5012005.w"
 Peak Name: "TATB" Mass(es): 237.2204.9 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100 ng/mL
 Calculated Conc: 114 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:46:00 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: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.84 min
 Area: 1.50e+005 counts
 Height: 35526.962 cps
 Start Time: 6.84 min
 End Time: 7.77 min



Sample Name: "WXX1001237C9" Sample ID: "1LER" File: "EX5012005.w"
 Peak Name: "TATB" Mass(es): 182.046.0 amu
 Comment: "LCMSEXP_C" Annotation: "

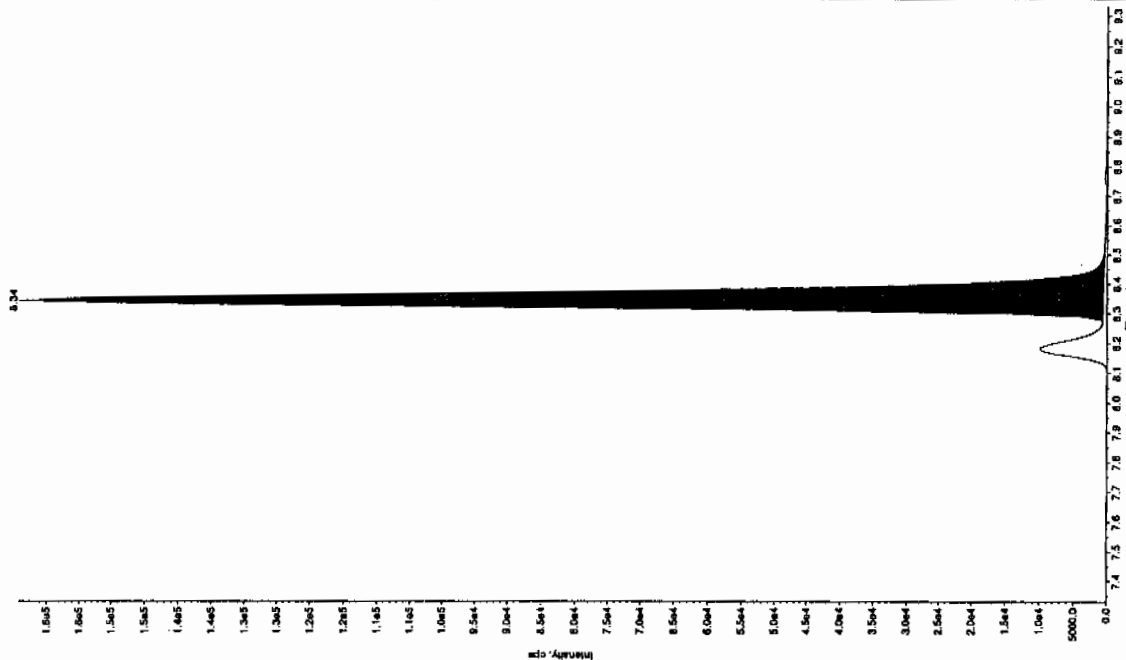
Sample Index: 1
 Sample Type: QC
 Concentration: 100 ng/mL
 Calculated Conc: 115 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:46:00 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 9.17e+005 counts
 Height: 231609.879 cps
 Start Time: 8.09 min
 End Time: 8.30 min



See 03/17/10

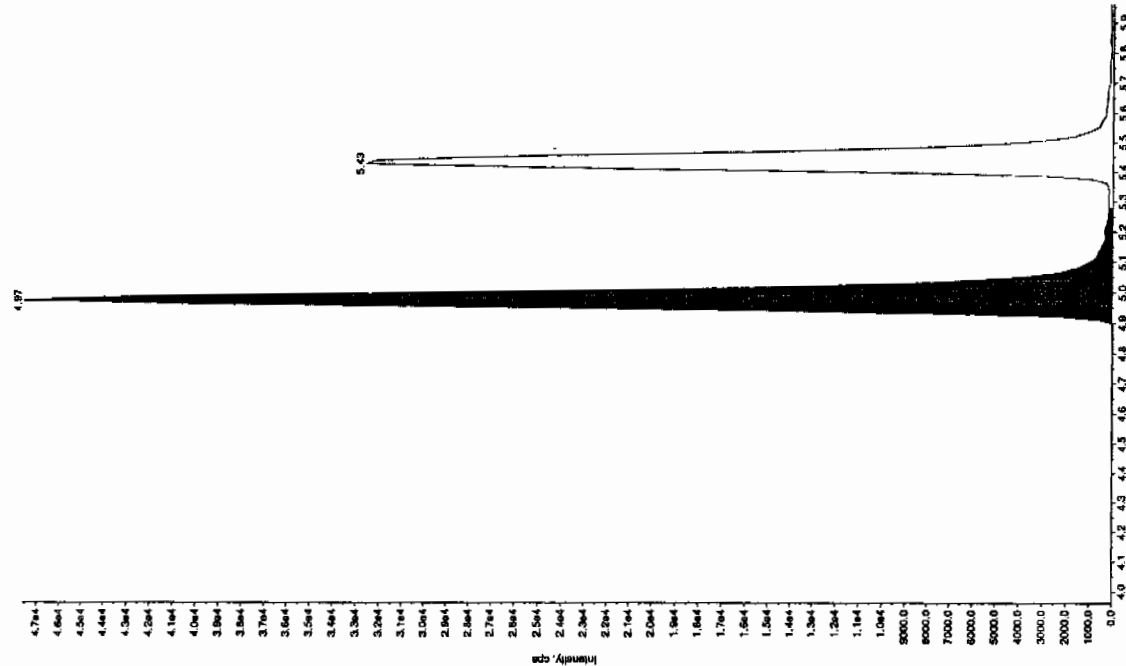
Sample Name: "WXX100312-2701" Sample ID: "111ER" File: "EX503120065.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

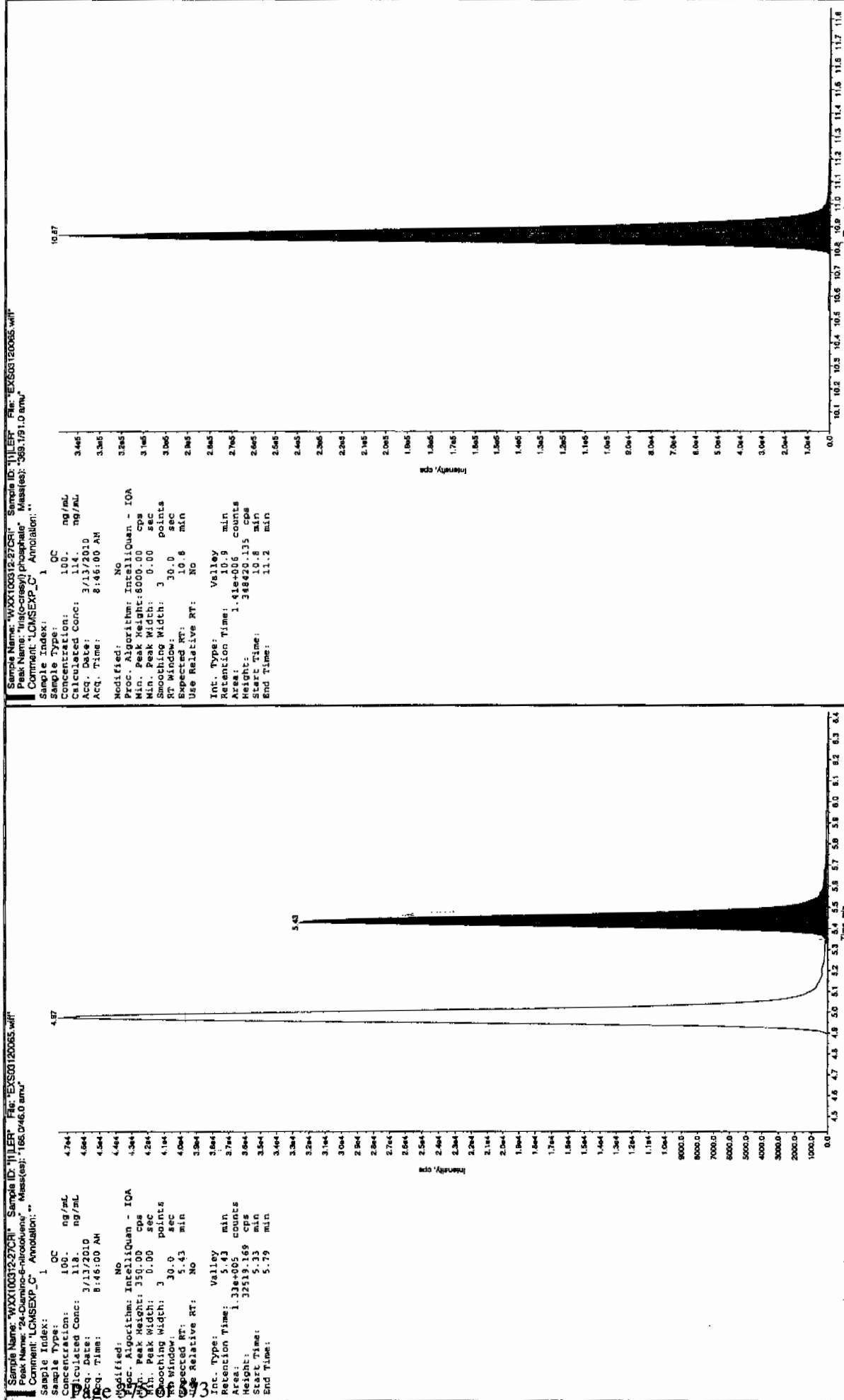
Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 32.7 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:46:00 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 5.98e+005 counts
 Height: 163519.74 cps
 Start Time: 8.25 min
 End Time: 8.59 min



Sample Name: "WXX100312-2701" Sample ID: "111ER" File: "EX503120065.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0/166.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 126. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 8:46:00 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: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Area: 1.96e+005 counts
 Height: 47562.080 cps
 Start Time: 4.88 min
 End Time: 5.28 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03120071.wiff

Analysis Date: 13-MAR-10 10:20

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	612	122	
2,6-Diamino-4-nitrotoluene	500	625	125	
3,4-Dinitrotoluene	250	267	107	
3,5-Dinitroaniline	500	589	118	
TATB	500	622	124	
tris(o-cresyl) phosphate	500	583	117	

Recovery Limits:

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

Other Target Analytes 80-120%

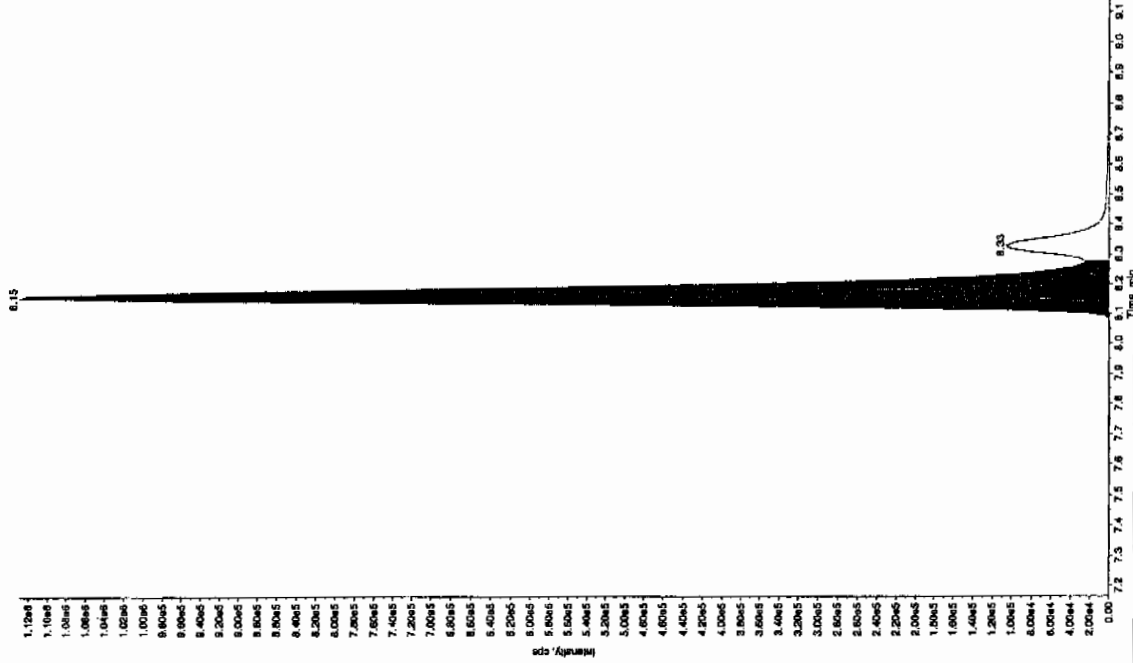
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Ken 3/16/10

Sample Name: "WXX100312-250CV" Sample ID: "J1LER" File: "EXS03120071.wif"
 Peak Name: "35-Dinitrochlorine" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

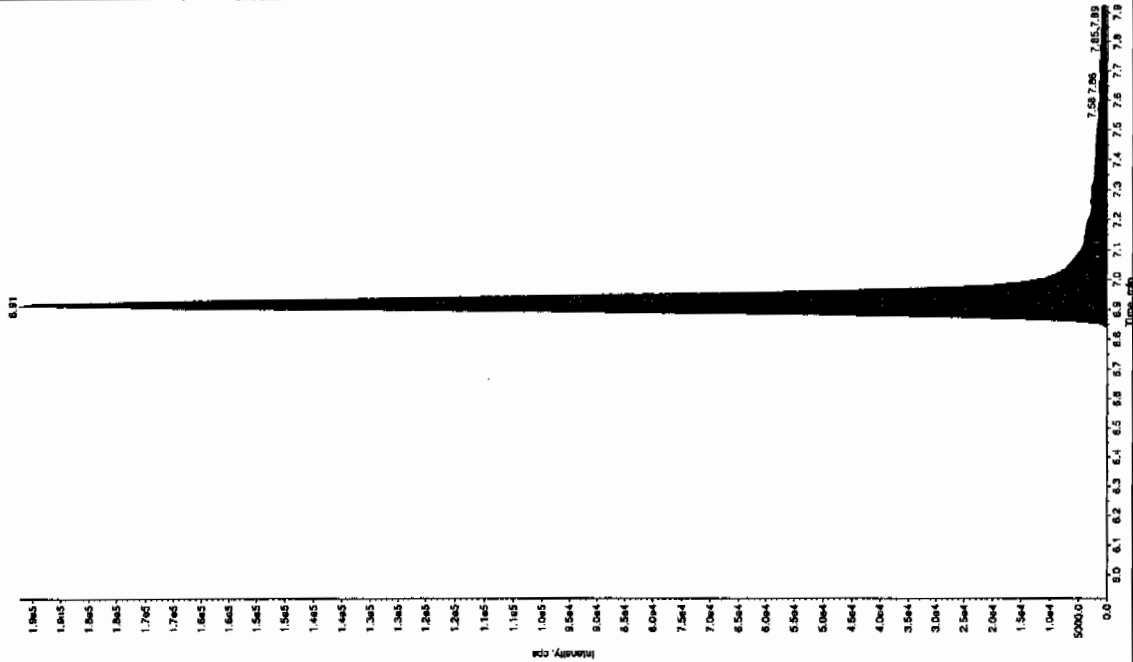
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 589. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:20:15 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.15 min
 Area: 4.52e+006 counts
 Height: 1128760.864 cps
 Start Time: 8.07 min
 End Time: 8.28 min



Handwritten: 3/16/10

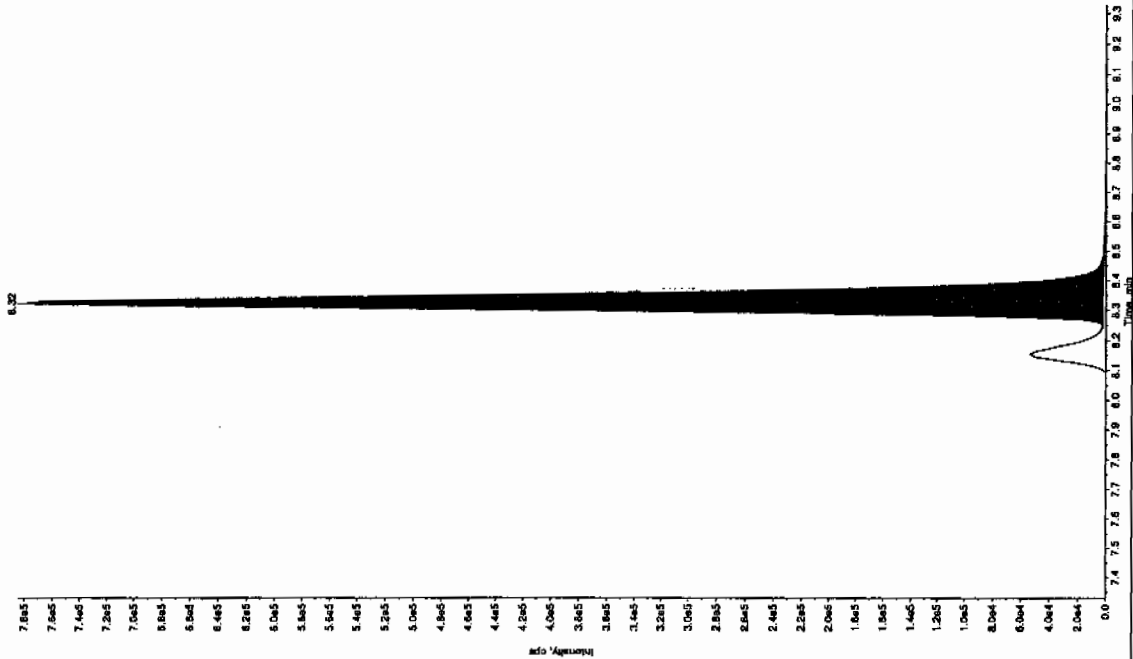
Sample Name: "WXX100312-250CV" Sample ID: "J1LER" File: "EXS03120071.wif"
 Peak Name: "1ATB" Mass(es): "157.2024.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 622. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:20:15 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: 6.92 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.91 min
 Area: 8.78e+005 counts
 Height: 192326.279 cps
 Start Time: 6.82 min
 End Time: 7.00 min



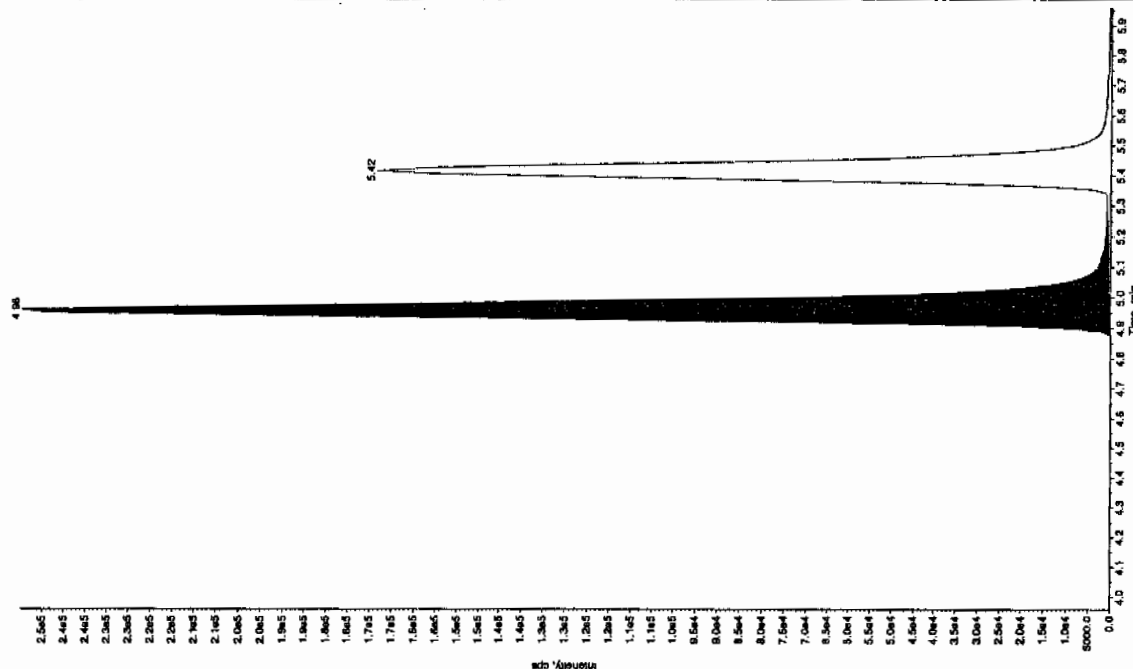
Sample Name: "WXX10012-280CV" Sample ID: "11LER" File: "EX03120071.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 1
 Concentration: 250. ng/mL
 Calculated Conc: 267. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:20:15 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: 8.32 min
 Area: 3.02e+06 counts
 Height: 78247.31 cps
 Start Time: 8.22 min
 End Time: 8.63 min



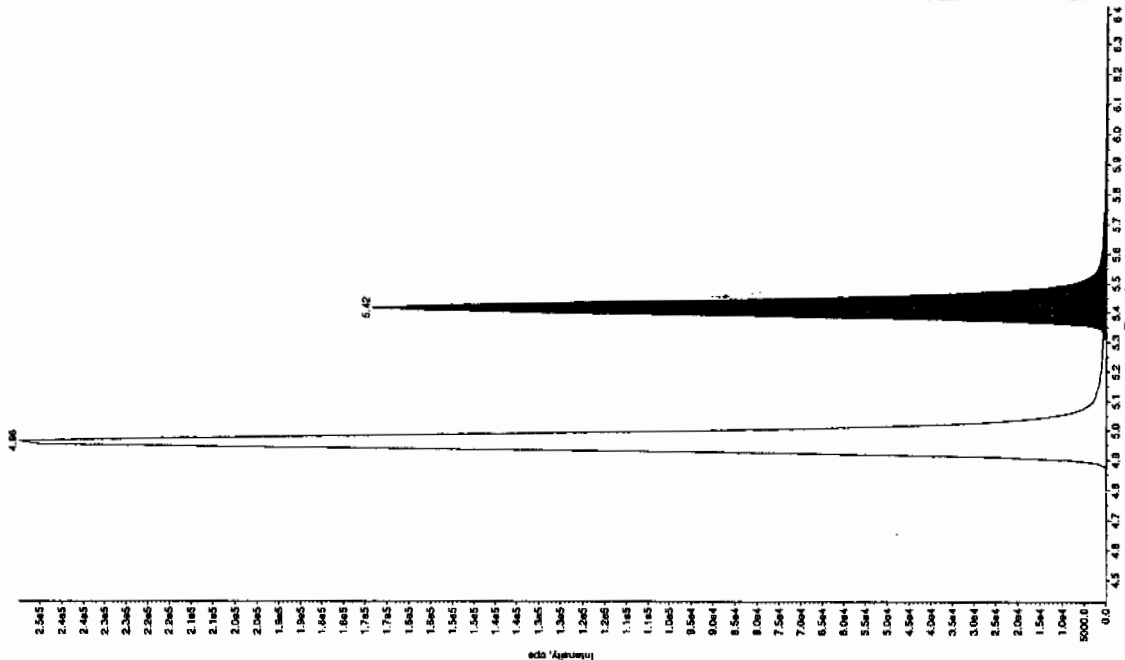
Sample Name: "WXX10012-280CV" Sample ID: "11LER" File: "EX03120071.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 1
 Concentration: 500. ng/mL
 Calculated Conc: 625. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:20:15 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: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.01e+06 counts
 Height: 24975.875 cps
 Start Time: 4.86 min
 End Time: 5.26 min



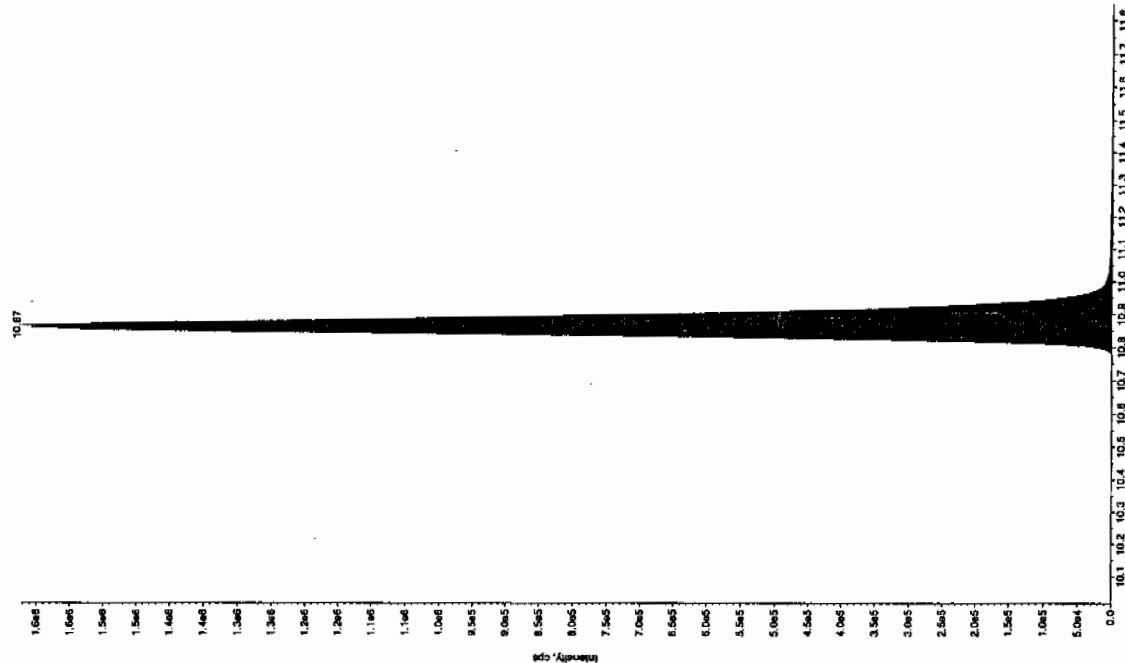
Sample Name: "WXX100312-260CV" Sample ID: "11LER" File: "EXS03120071.wif"
 Peak Name: "24-Diamino-6-iodotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 512. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:20:15 AM
 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: 6.61e+005 counts
 Height: 16844.192 cps
 Start Time: 5.11 min
 End Time: 6.03 min



Sample Name: "WXX100312-260CV" Sample ID: "11LER" File: "EXS03120071.wif"
 Peak Name: "11s(o-cresyl) phosphata" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 583. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:20:15 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.62e+006 counts
 Height: 162035.205 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2071

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03120073.wiff

Analysis Date: 13-MAR-10 10:51

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	89.6	90	
2,6-Diamino-4-nitrotoluene	100	98.1	98	
3,4-Dinitrotoluene	50	52.9	106	
3,5-Dinitroaniline	100	113	113	
TATB	100	127	127	
tris(o-cresyl) phosphate	100	117	117	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 3/16/10

Sample Name: "WXX100312-270R" Sample ID: "111ER" File: "EX503120073.wif"

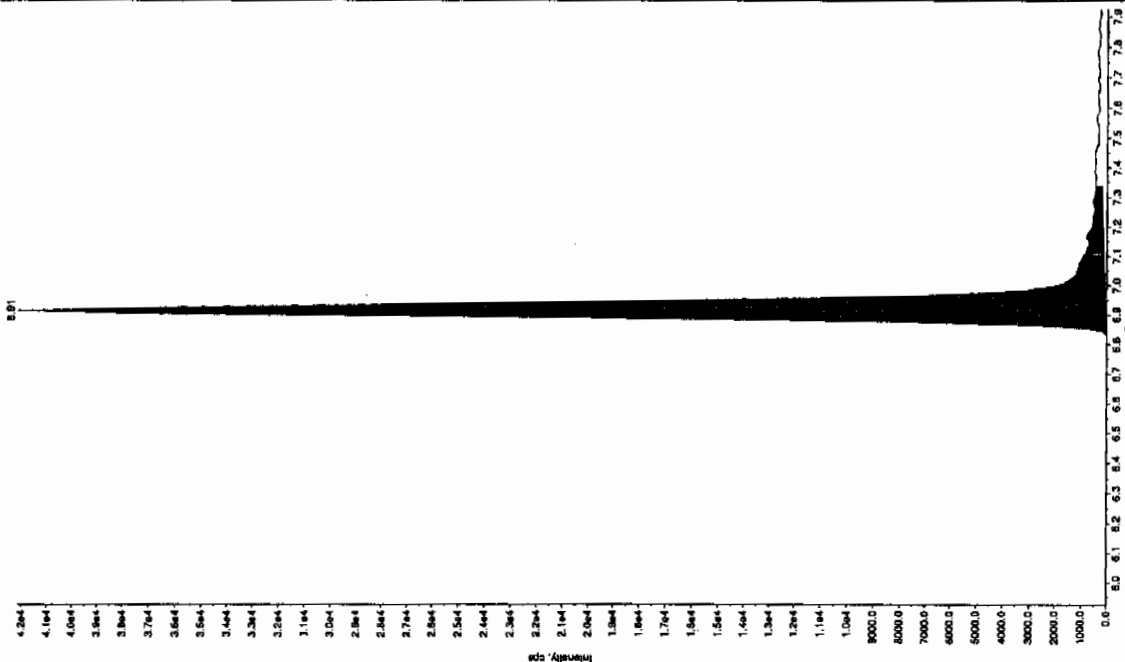
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: CC
 Concentration: 100. ng/mL
 Calculated Conc: 120. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:51:40 AM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.92 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.91 min
 Area: 1.59e+005 counts
 Height: 42108.887 cps
 Start Time: 6.82 min
 End Time: 7.38 min



Sample Name: "WXX100312-270R" Sample ID: "111ER" File: "EX503120073.wif"

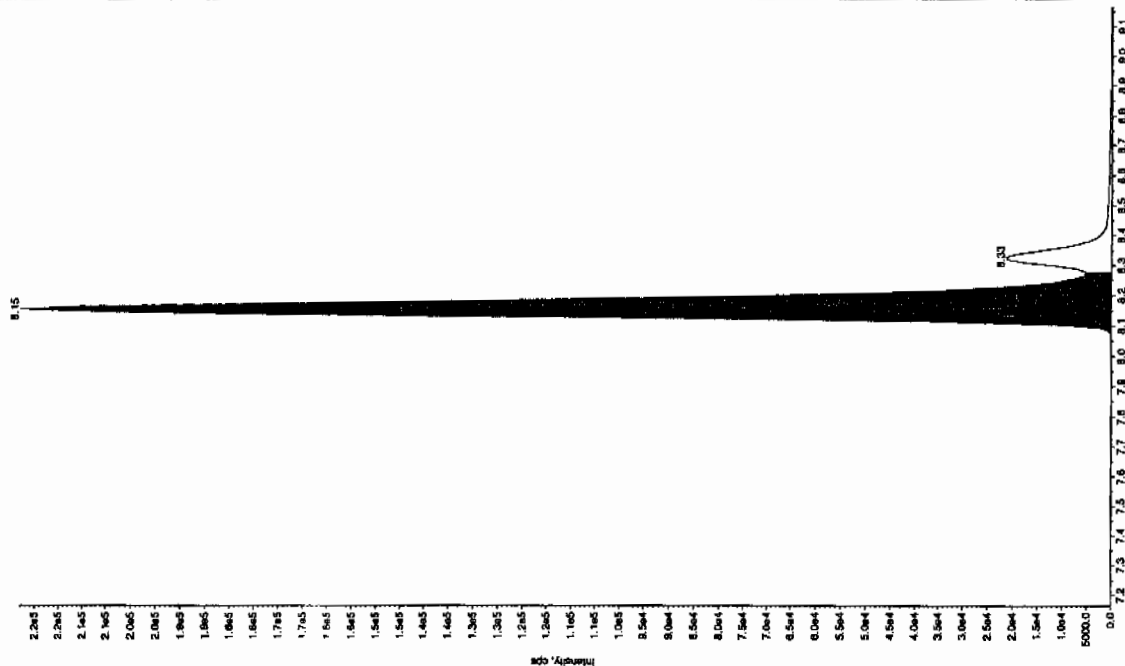
Peak Name: "35-Dinitroaniline" Mass(es): "192.0/45.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

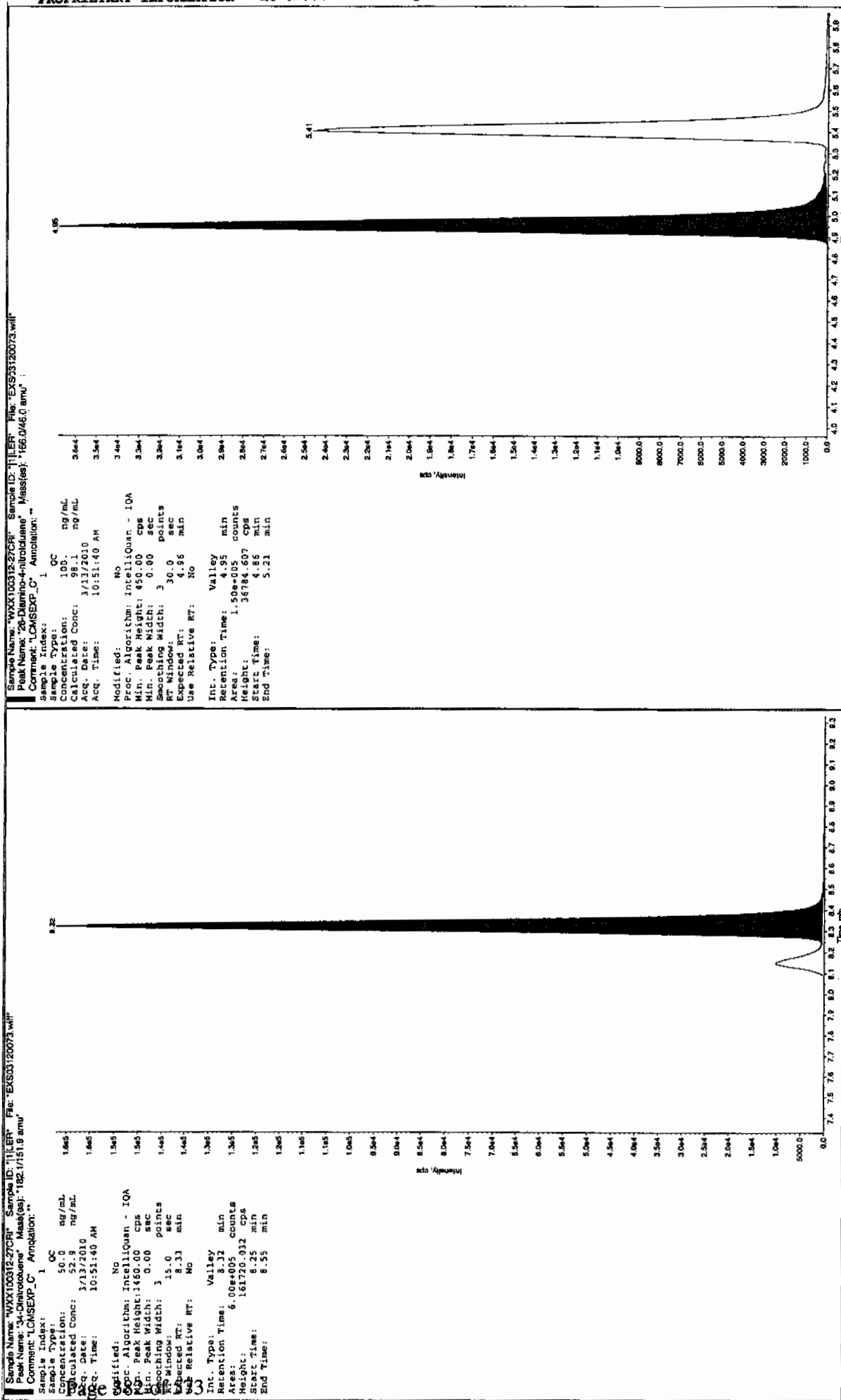
Sample Index: 1
 Sample Type: CC
 Concentration: 100. ng/mL
 Calculated Conc: 113. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 10:51:40 AM

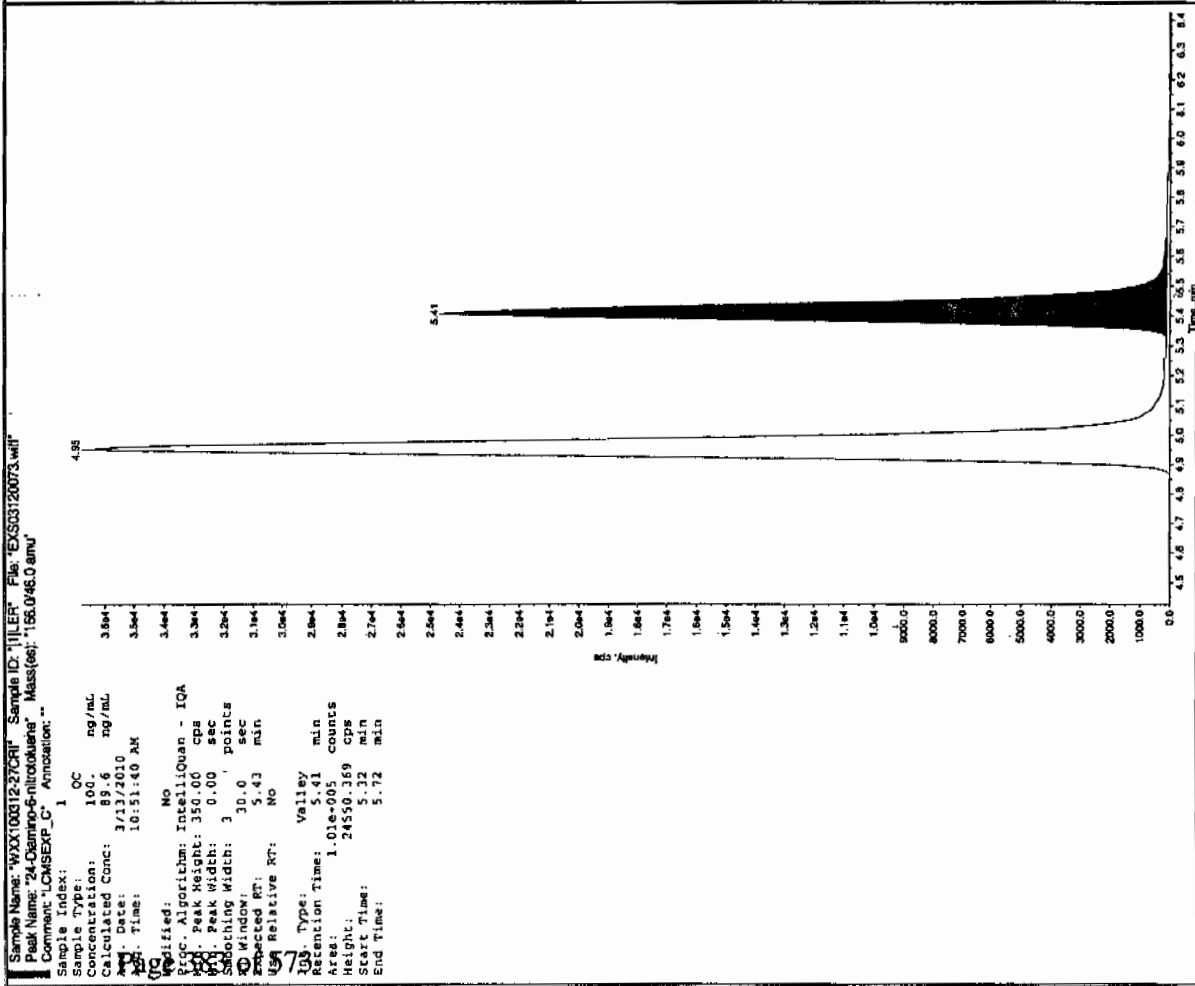
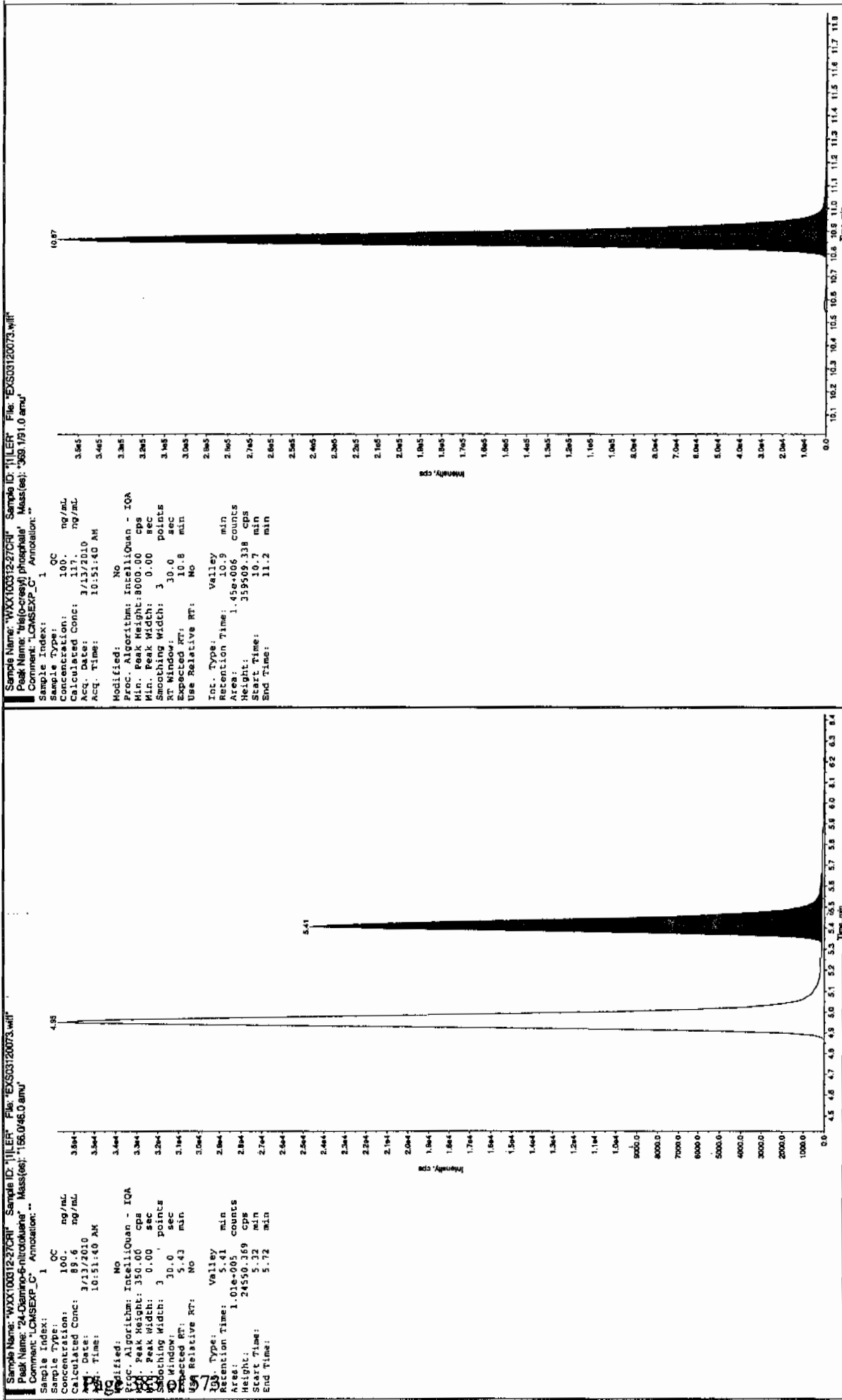
Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.15 min
 Area: 9.04e+005 counts
 Height: 222858.643 cps
 Start Time: 8.05 min
 End Time: 8.28 min



Run 03/17/10





QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 958253

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 1202055028

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408123a

Date Analyzed: 11-APR-10 09:34

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 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\EXP0408123a

Date: 11-Apr-2010

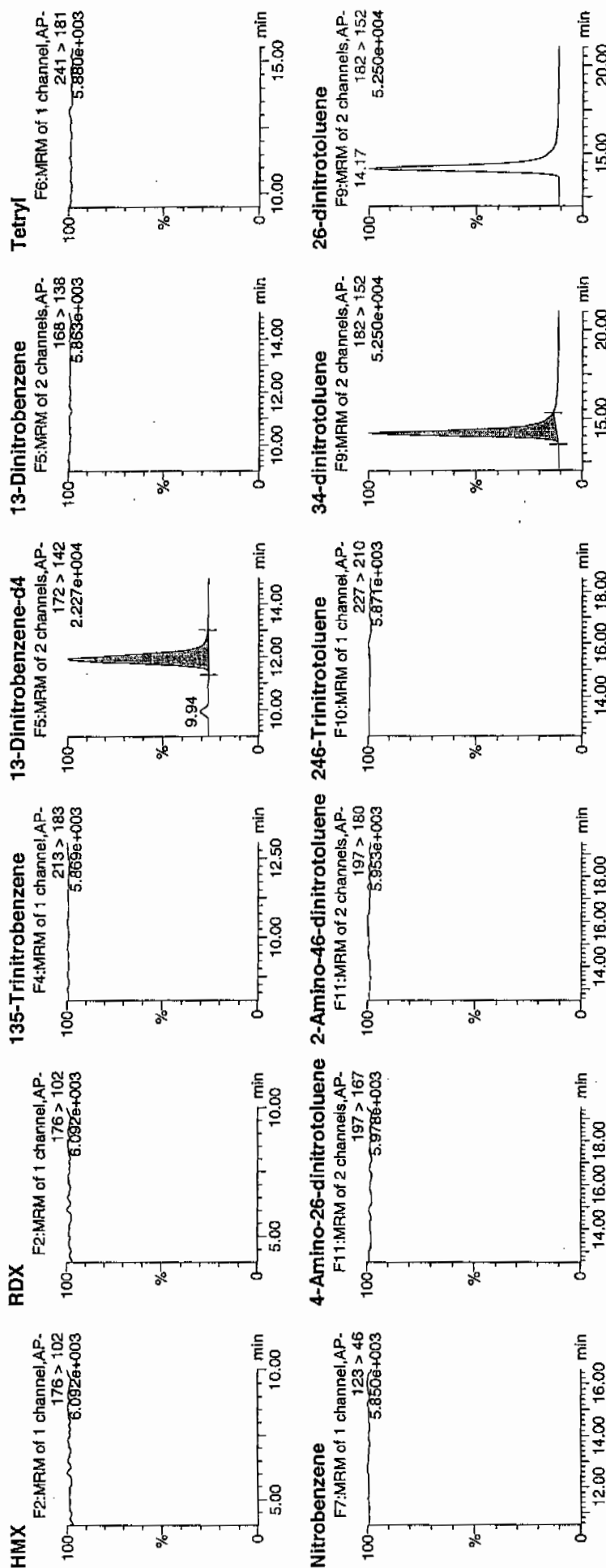
Time: 09:34:45

ID: 1202055028

Vial: 2:1,A

4/12/00

LAUW	950257	80257	413	21
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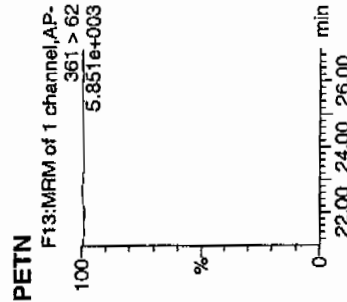
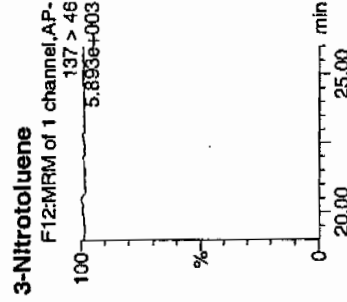
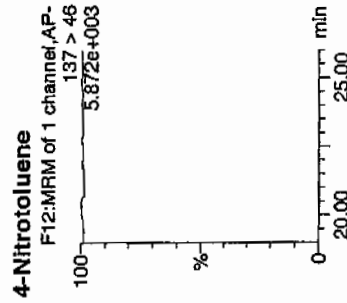
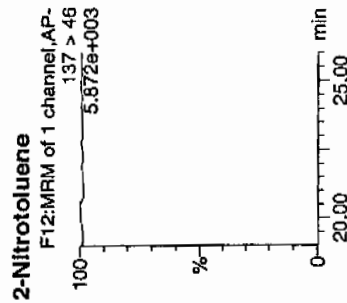
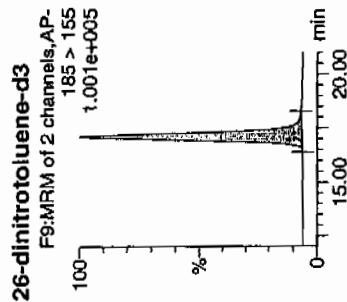
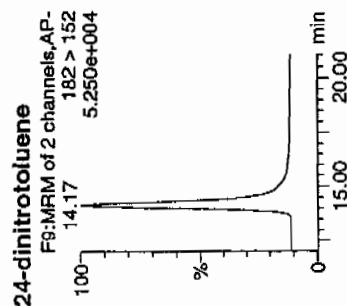
01/03/10
Abm

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 2 of 105

Dataset: C:\MASSLYNX\New_Exp_PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010



ID#	Name	Area	Area %	Response	Flags	Monitored	ModTime	%Rec	Mode	Pass
1202055028	HMX	176 > 102	6326.397							
1202055028	RDX	176 > 102	6326.397							
1202055028	135-Trinitrobenzene	213 > 183	6326.397							
1202055028	13-Dinitrobenzene-d4	172 > 142	11.89	6326.397						
1202055028	13-Dinitrobenzene	168 > 138	6326.397							
1202055028	Tetryl	241 > 181	6326.397							
1202055028	Nitrobenzene	123 > 46	38587.605							
1202055028	4-Amino-26-dinitrotoluene	197 > 167	38587.605							
1202055028	2-Amino-46-dinitrotoluene	197 > 180	38587.605							
1202055028	246-Trinitrotoluene	227 > 210	38587.605							
1202055028	34-dinitrotoluene	182 > 152	14.17	20152.500						
1202055028	26-dinitrotoluene	182 > 152	38587.605							
1202055028	24-dinitrotoluene	182 > 152	38587.605							
1202055028	26-dinitrotoluene-d3	185 > 155	17.11	38587.605						
1202055028	2-Nitrotoluene	137 > 46	38587.605							
1202055028	4-Nitrotoluene	137 > 46	38587.605							
1202055028	3-Nitrotoluene	137 > 46	38587.605							
1202055028	PETN	361 > 62	38587.605							

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 958253

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 1202055028

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120045.wiff

Date Analyzed: 13-MAR-10 03:31

Units: ug/kg

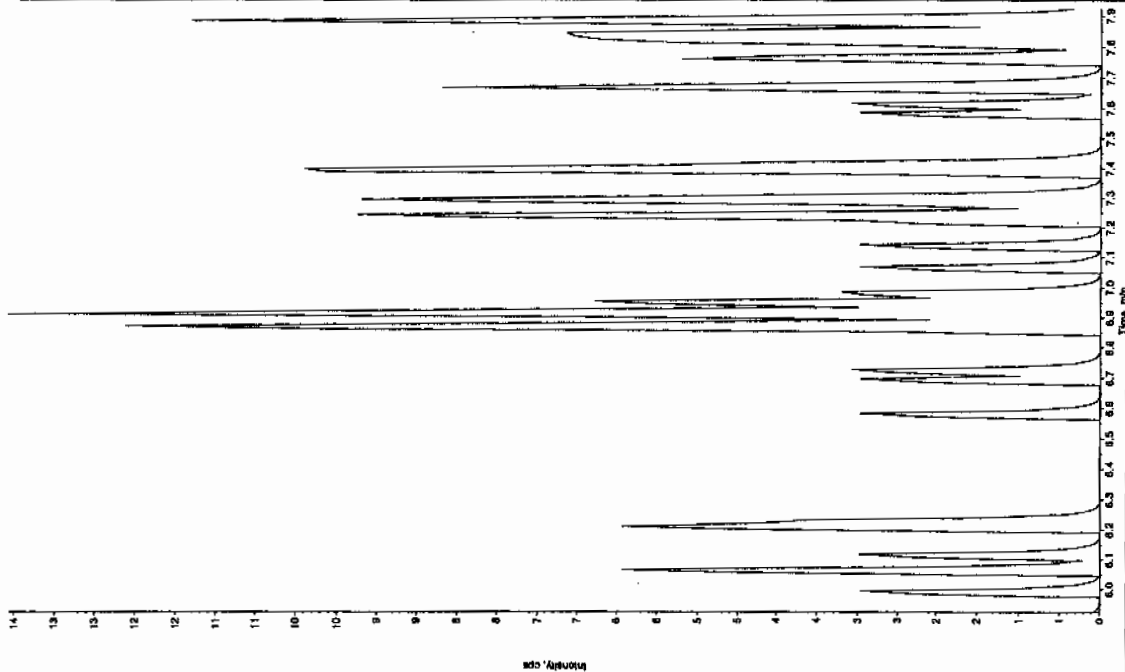
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

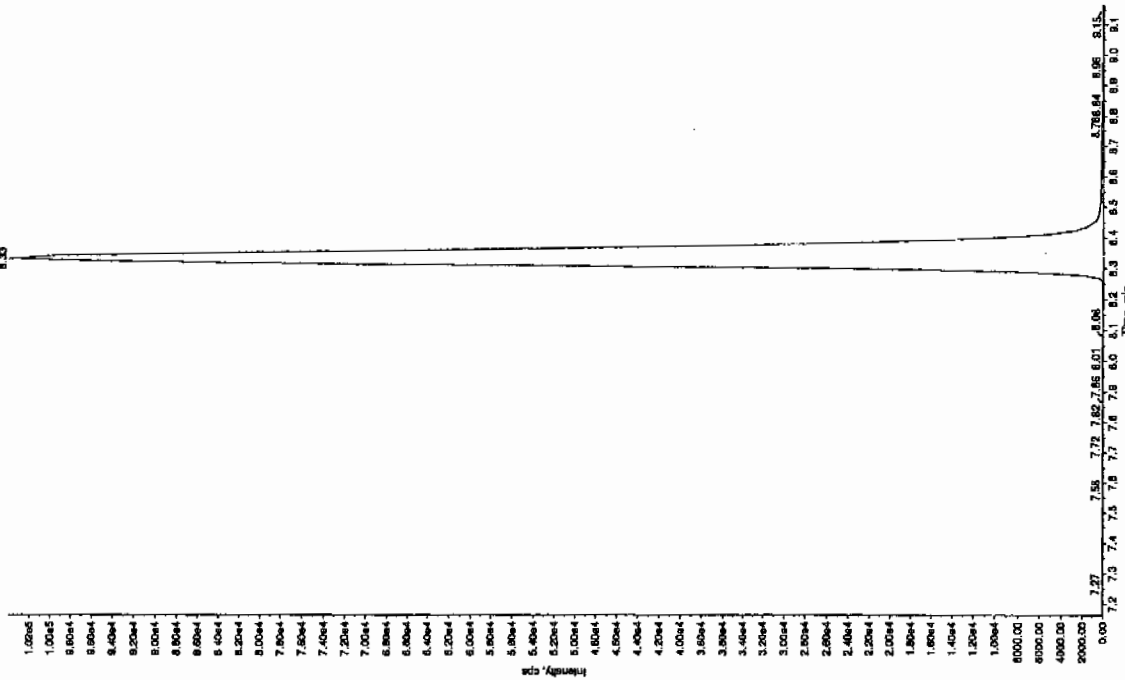
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Scan 3116110

Sample Name: "120205528" Sample ID: "95825721.ER" File: "EX503120045.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX632125" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:11:49 AM
 Modified: No



Sample Name: "120205528" Sample ID: "95825721.ER" File: "EX503120045.will"
 Peak Name: "35-Dinitrocellulose" Mass(es): "182.046.0 amu"
 Comment: "LCX632125" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:11:49 AM
 Modified: No



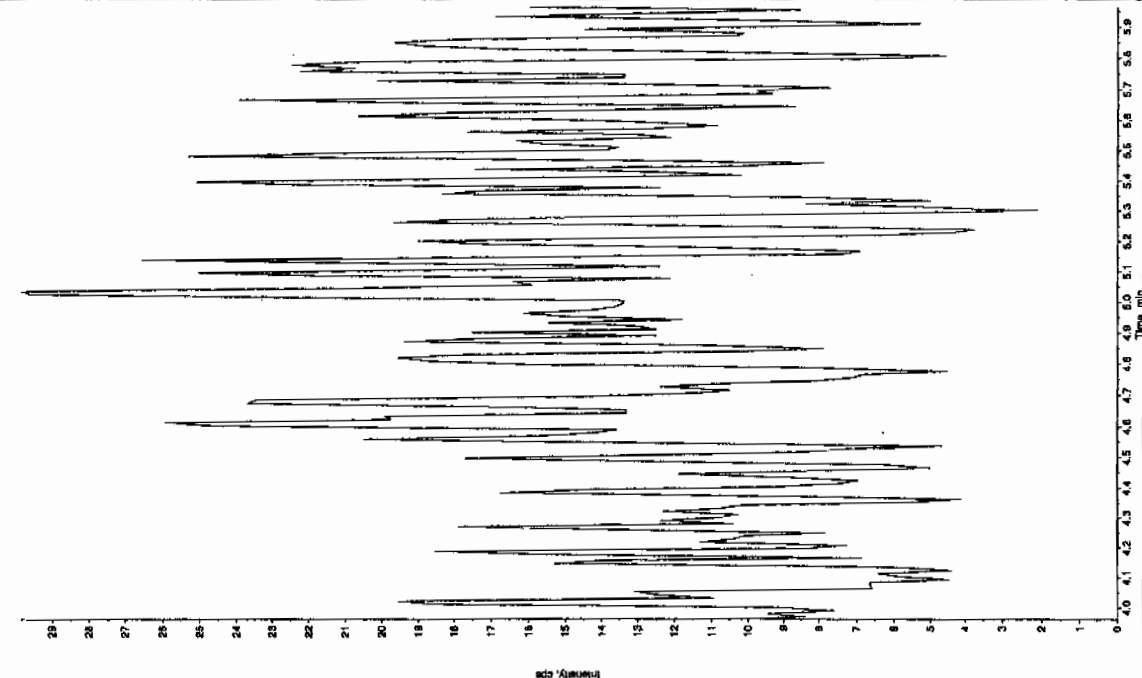
Scan 0317110

Sample Name: "120205028" Sample ID: "98825721LH" File: "EX503120045.wif"

Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "165.048.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:31:49 AM
 Modified: No

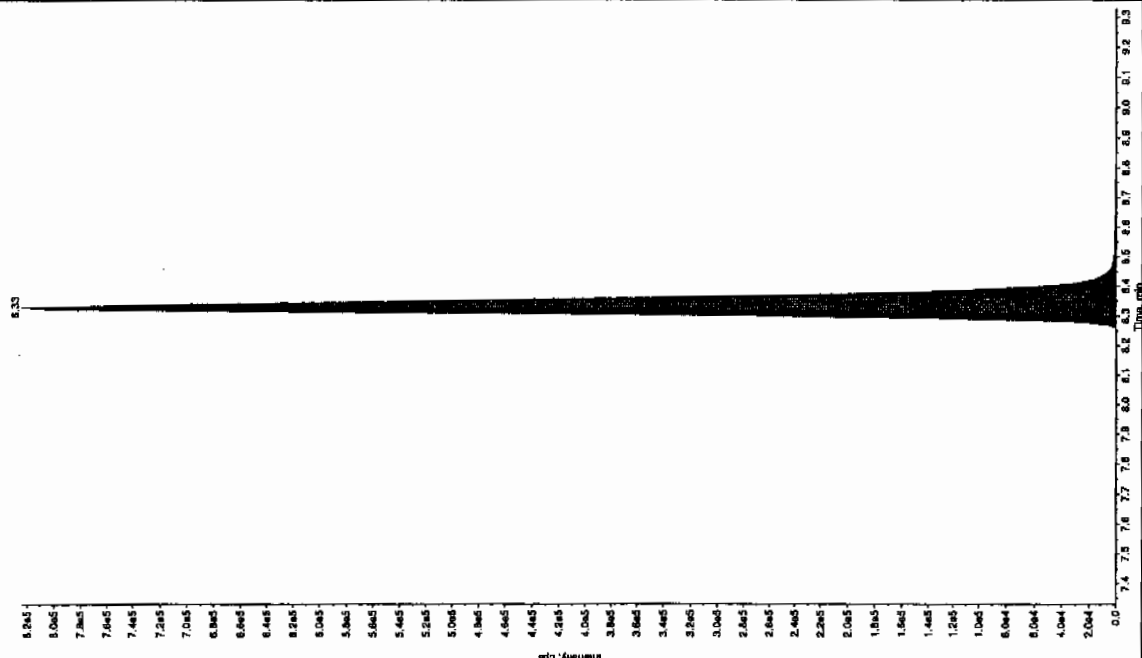


Sample Name: "120205028" Sample ID: "98825721LH" File: "EX503120045.wif"

Peak Name: "34-Chlorobenzene" Mass(es): "162.171.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 269 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:31:49 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 8.33 min
 Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 3.05e+006 counts
 Height: 823455.942 cps
 Start Time: 8.23 min
 End Time: 8.57 min

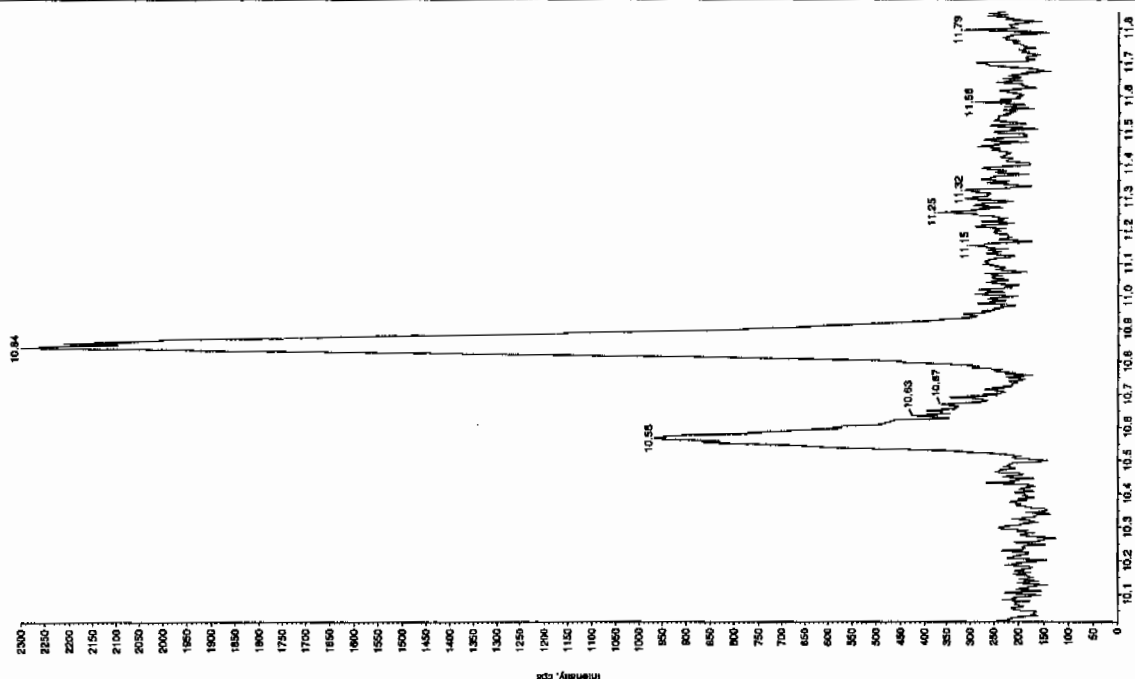


Sample Name: "120205028" Sample ID: "568257121.ER" File: "EX503120045.wif"

Peak Name: "16-O-creyl phosphate" Mass(es): "369.1/91.0 amu"

Comment: "LCX532125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/13/2010
Acq. Time: 3:31:49 AM
Modified: No

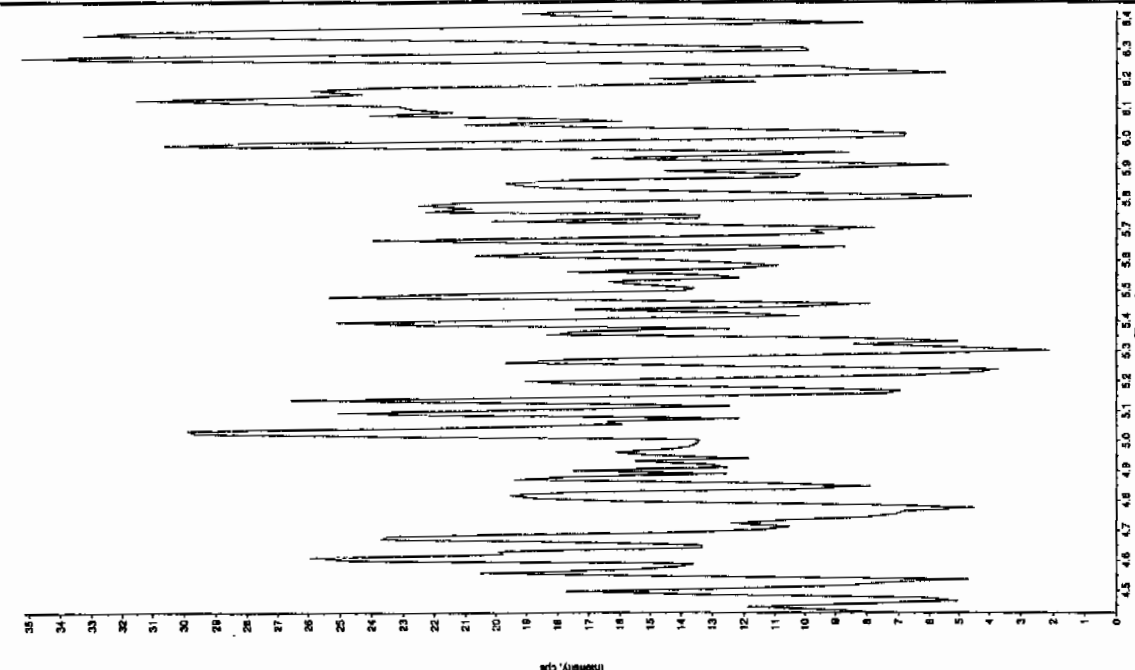


Sample Name: "120205028" Sample ID: "568257121.ER" File: "EX503120045.wif"

Peak Name: "24-Olemino-6-nitrofluene" Mass(es): "166.0/46.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/13/2010
Acq. Time: 3:31:49 AM
Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 958253

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 1202055031

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0408124a

Date Analyzed: 11-APR-10 10:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4790	
121-14-2	2,4-Dinitrotoluene	4640	
121-82-4	RDX	5050	
19406-51-0	4-Amino-2,6-dinitrotoluene	4710	
2691-41-0	HMX	4800	
35572-78-2	2-Amino-4,6-dinitrotoluene	5030	
479-45-8	Tetryl	1150	
606-20-2	2,6-Dinitrotoluene	4740	
78-11-5	PETN	5330	
88-72-2	o-Nitrotoluene	3970	
98-95-3	Nitrobenzene	4070	
99-08-1	m-Nitrotoluene	3760	
99-35-4	1,3,5-Trinitrobenzene	3790	
99-65-0	m-Dinitrobenzene	4770	
99-99-0	p-Nitrotoluene	4010	

*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\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0408124a

Date: 11-Apr-2010

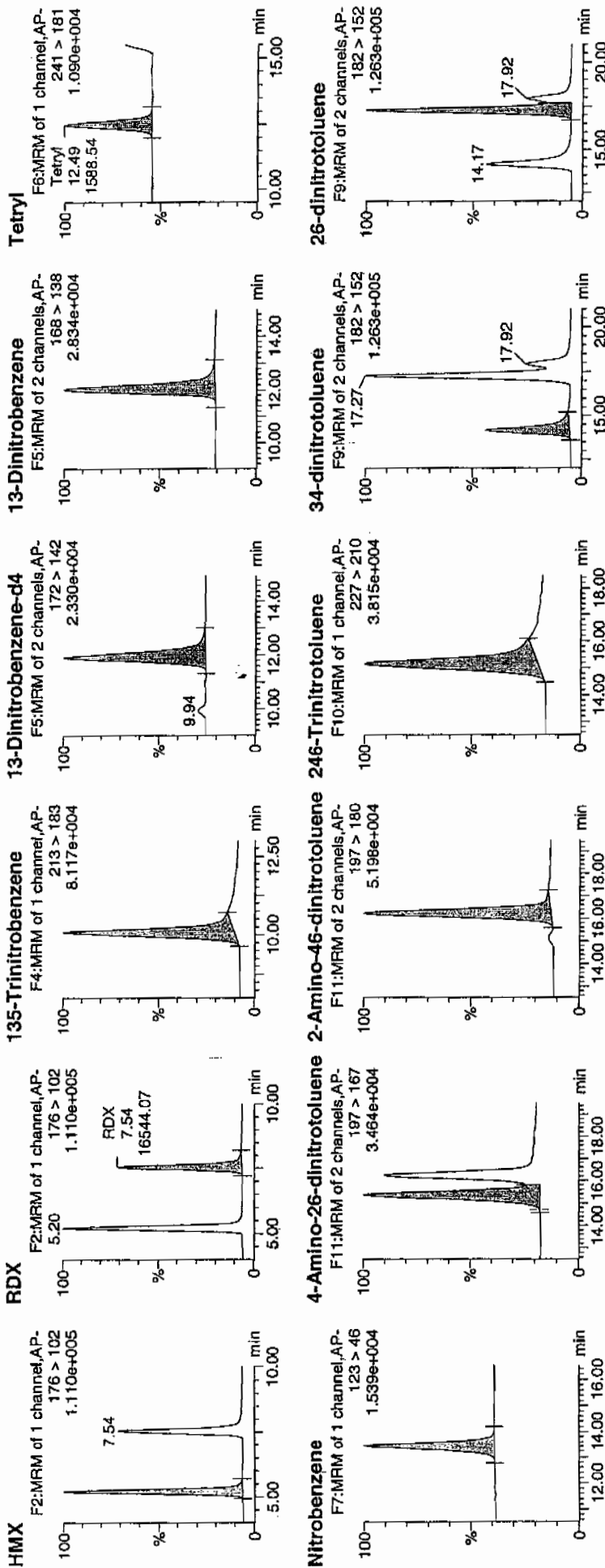
Time: 10:04:17

ID: 1202055031

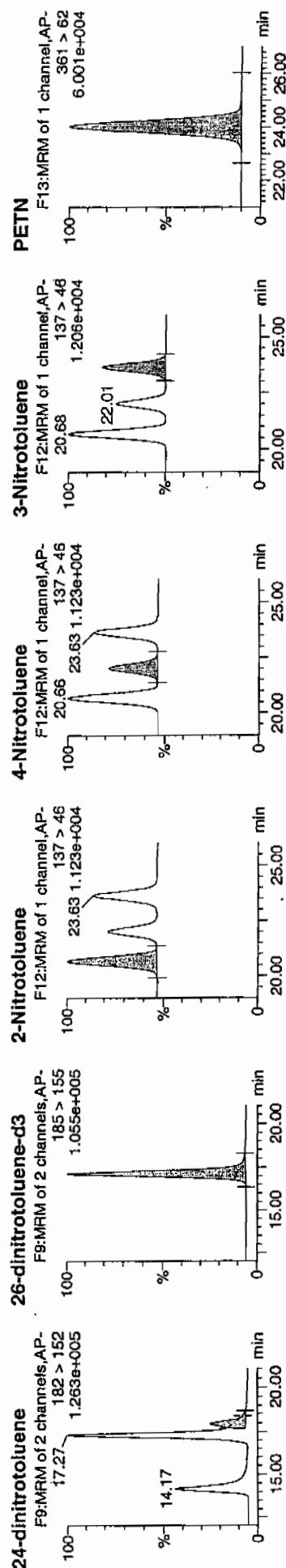
Vial: 2:1,B

4/12/10

WAW-95257 / 2022 / 128 / 2 /



4/12/10



ID	Name	Trace	RT	Area	Area	AbsResp	Response	Area	ModDate	ModTime	Yield	SN
1202055031	HMX	176 > 102	5.20	20631.951	6727.451	20631.951	1533.415	db		480.0569	96.0	1432.0
1202055031	RDX	176 > 102	7.54	16544.070	6727.451	16544.070	1229.594	bb		504.5803	100.9	987.5
1202055031	135-Trinitrobenzene	213 > 183	10.07	21521.889	6727.451	21521.889	1599.557	bb		378.7415	75.7	959.9
1202055031	13-Dinitrobenzene-d4	172 > 142	11.89	6727.451		6727.451	6727.451	bb		517.8516	103.5	607.2
1202055031	13-Dinitrobenzene	168 > 138	12.03	8265.542	6727.451	8265.542	614.315	bb		476.9999	95.4	386.8
1202055031	Tetryl	241 > 181	12.49	1588.542	6727.451	1588.542	118.064	bb		114.6734	22.9	143.3
1202055031	Nitrobenzene	123 > 46	13.41	3291.975	6727.451	3291.975	244.667	bb		407.0980	81.4	250.7
1202055031	4-Amino-26-dinitrotoluene	197 > 167	15.36	11969.989	40829.238	11969.989	146.586	MM	12-Apr-10	11:48:55	94.2	316.2
1202055031	2-Amino-46-dinitrotoluene	197 > 180	16.22	18751.750	40829.238	18751.750	229.636	bb		502.6736	100.5	395.6
1202055031	246-Trinitrotoluene	227 > 210	15.14	15052.115	40829.238	15052.115	184.330	bb		479.0363	95.8	538.1
1202055031	34-dinitrotoluene	182 > 152	14.17	21140.346	40829.238	21140.346	258.887	bb		252.4301	101.0	991.4
1202055031	26-dinitrotoluene	182 > 152	17.27	43990.258	40829.238	43990.258	538.710	MM	12-Apr-10	11:54:37	94.7	2437.4
1202055031	24-dinitrotoluene	182 > 152	17.92	10035.438	40829.238	10035.438	122.895	MM	12-Apr-10	11:54:56	92.8	492.0
1202055031	26-dinitrotoluene-d3	185 > 155	17.11	40829.238		40829.238	40829.238	bb		517.1061	103.4	2855.4
1202055031	2-Nitrotoluene	137 > 46	20.66	2489.429	40829.238	2489.429	30.486	bb		397.1508	79.4	601.3
1202055031	4-Nitrotoluene	137 > 46	22.01	1271.331	40829.238	1271.331	15.569	bb		400.6010	80.1	321.3
1202055031	3-Nitrotoluene	137 > 46	23.64	1676.338	40829.238	1676.338	20.529	bb		376.0015	75.2	221.7
1202055031	PETN	361 > 62	24.04	29008.271	40829.238	29008.271	355.239	bb		532.5358	106.5	5515.4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 958253

Lab Code: GEL

GEL Job No (SDG) 10-2071

Matrix: SOIL

GEL Sample ID: 1202055031

Sample Amount 2

Moisture:

Amount Units g

Date Received: 25-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958253

Concentrated Extract Volume (mL) 10

Date Extracted: 02-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03120046.wiff

Date Analyzed: 13-MAR-10 03:47

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5810	
59229-75-3	2,6-Diamino-4-nitrotoluene	6100	
618-87-1	3,5-Dinitroaniline	5340	
6629-29-4	2,4-Diamino-6-nitrotoluene	6060	
78-30-8	tris(o-cresyl) phosphate	5370	

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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for 3/16/10

Sample Name: "1202055031" Sample ID: "95825721LER" File: "EX03120046.wit"

Peak Name: "TAT3" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 534. ng/mL

Acq. Date: 3/13/2010

Acq. Time: 3:47:32 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: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Valley

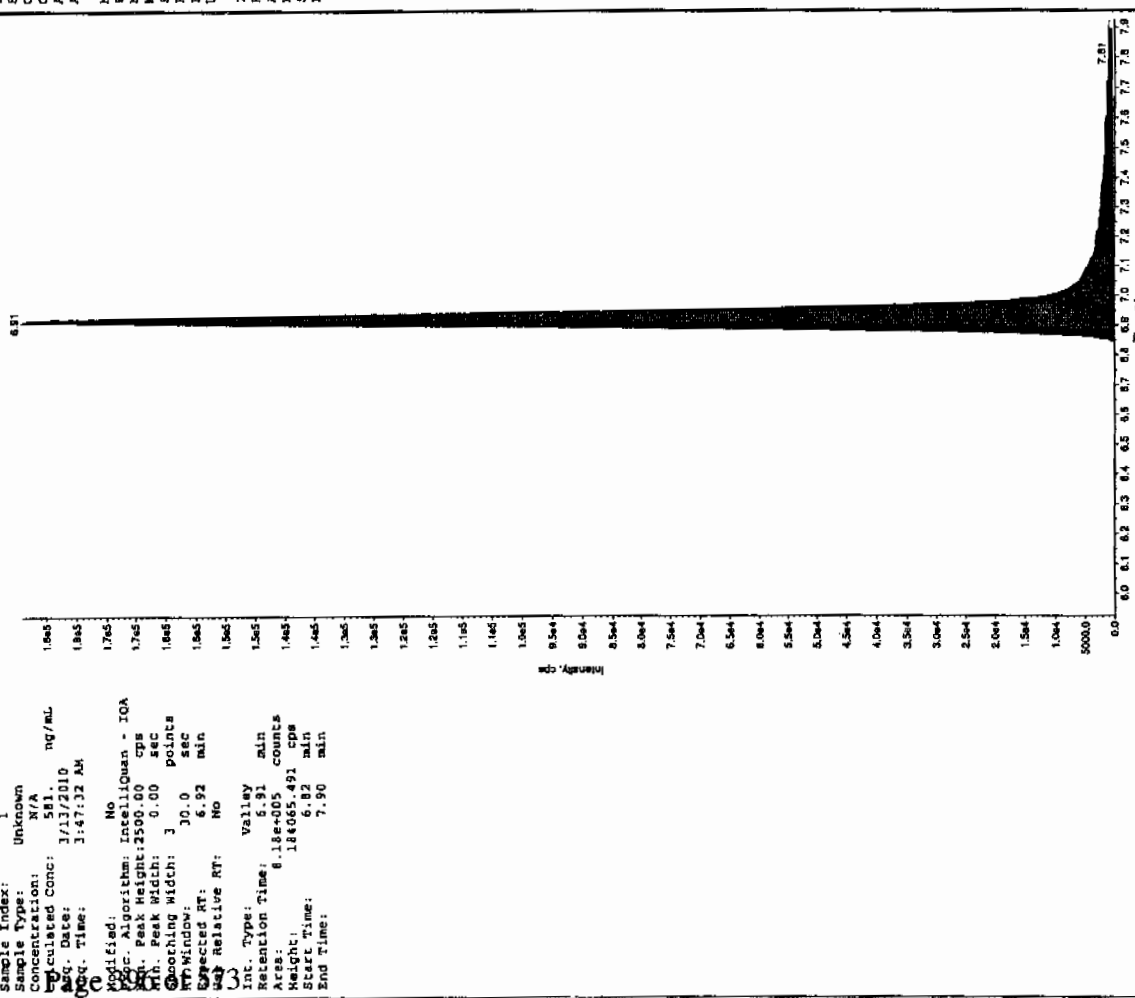
Retention Time: 8.16 min

Area: 4.12e+006 counts

Height: 1031863.037 cps

Start Time: 7.885 min

End Time: 8.28 min



444-03-17-10

Sample Name: "1202055031" Sample ID: "95825721LER" File: "EX03120046.wit"

Peak Name: "TAT3" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 534. ng/mL

Acq. Date: 3/13/2010

Acq. Time: 3:47:32 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: 6.92 min

Use Relative RT: No

Int. Type: Valley

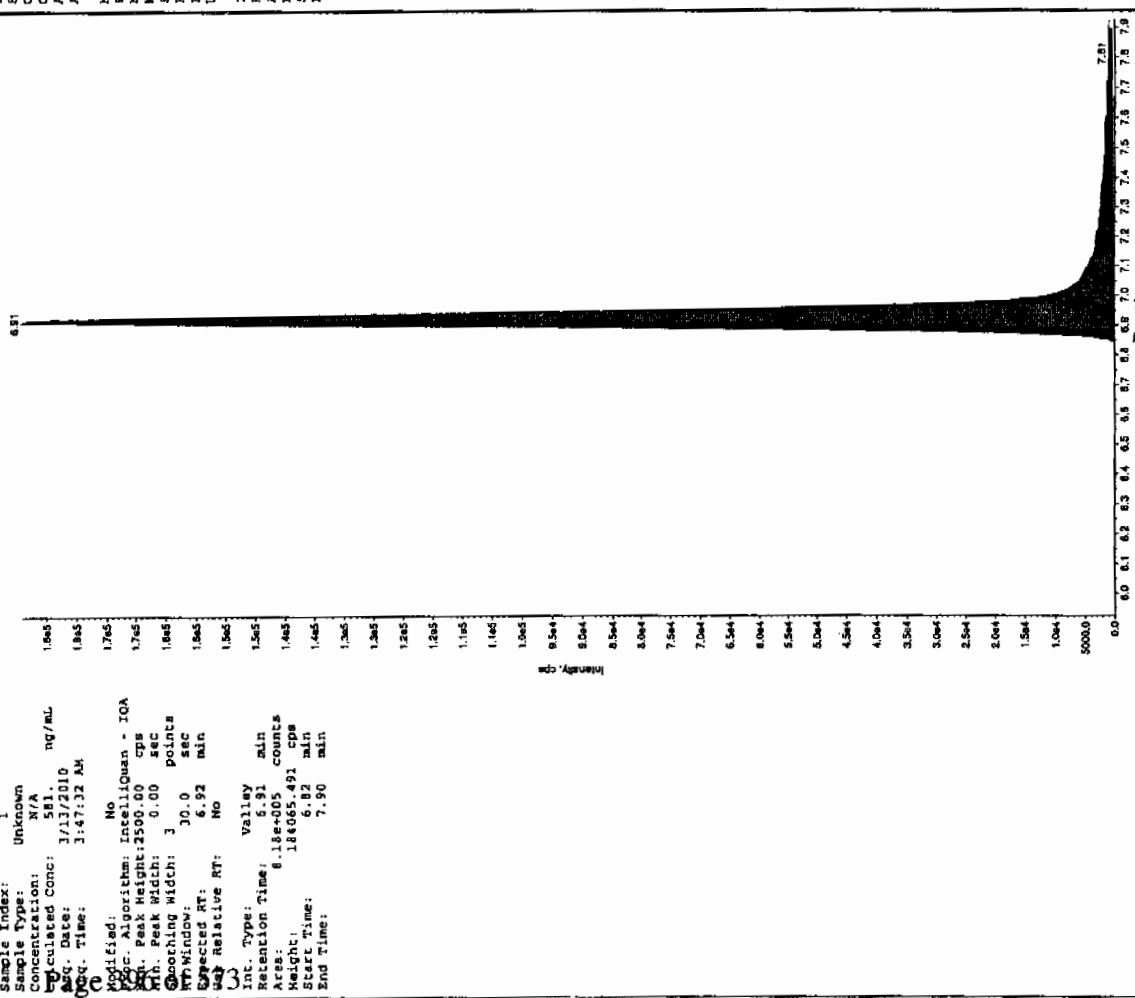
Retention Time: 6.91 min

Area: 8.18e+005 counts

Height: 18605.491 cps

Start Time: 6.79 min

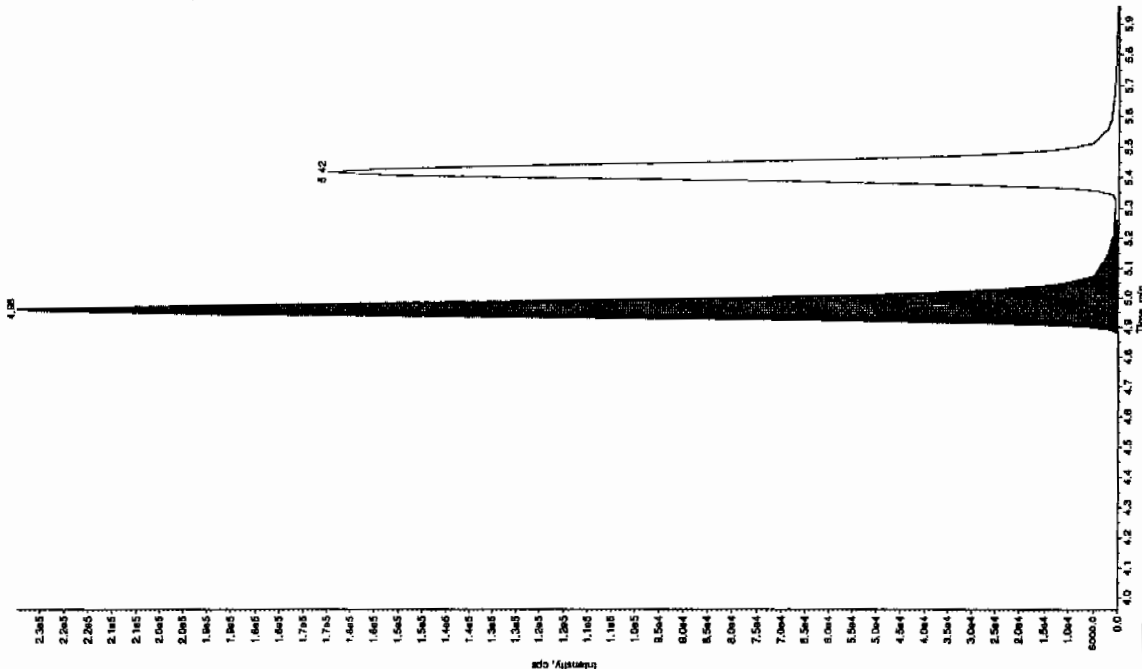
End Time: 7.90 min



*GEL SOP GL-OA-E-Q56, Method 8321A-Modified LCMSMS#4

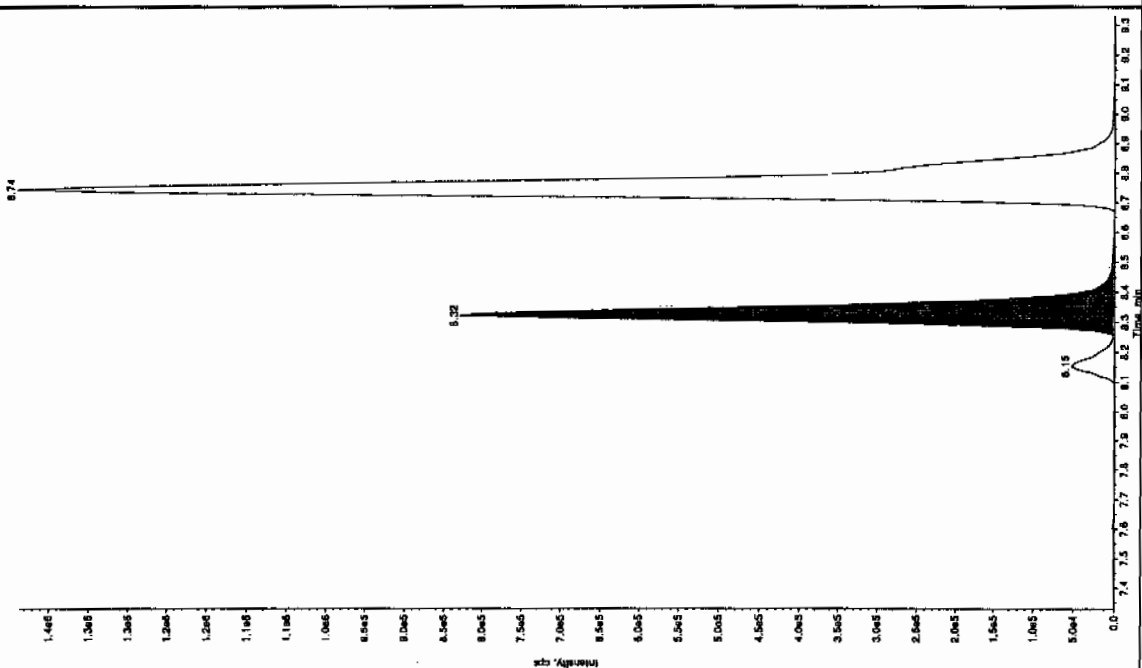
Sample Name: "1202055031" Sample ID: "5525721ER" File: "EXS03120046.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.11619 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 610. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:47:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 9.83e+005 counts
 Height: 229659.051 cps
 Start Time: 4.85 min
 End Time: 5.26 min



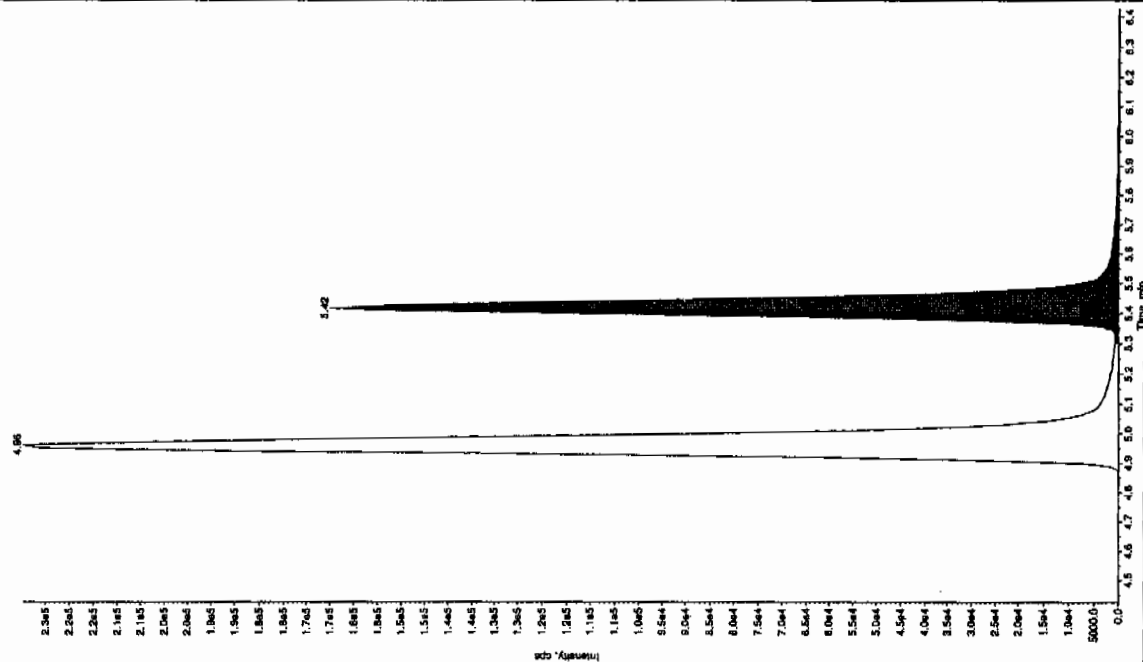
Sample Name: "1202055031" Sample ID: "5525721ER" File: "EXS03120046.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.11619 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 266. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:47:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.32 min
 Area: 3.01e+006 counts
 Height: 826251.648 cps
 Start Time: 8.25 min
 End Time: 8.54 min



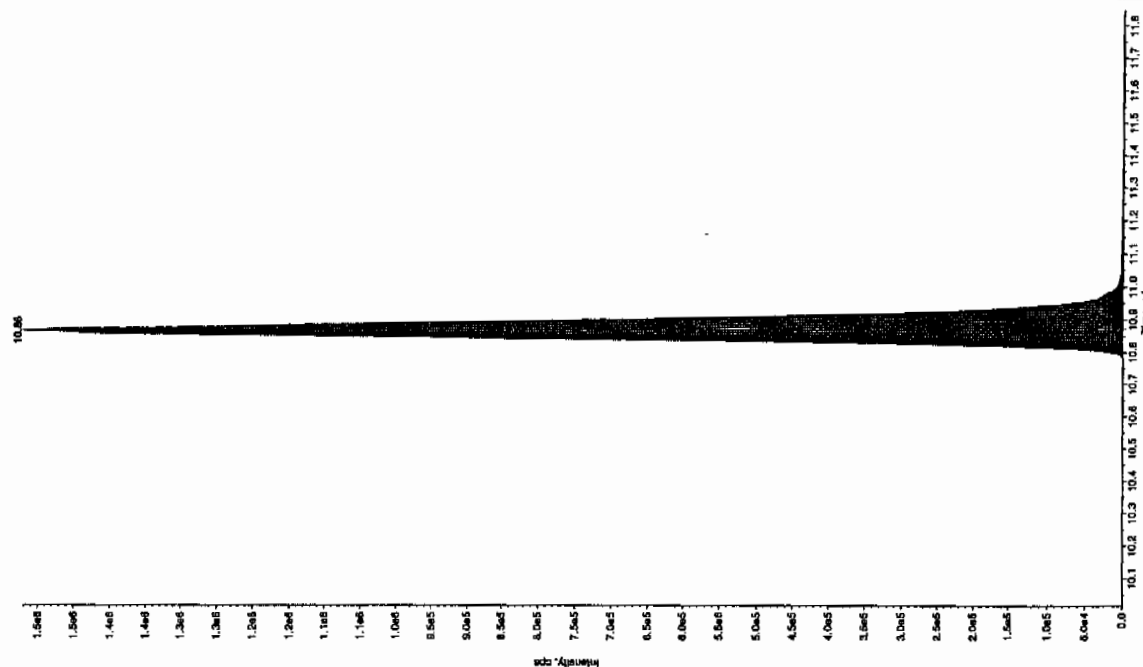
Sample Name: "1202055031" Sample ID: "95825721ER" File: "EX903120046.wif"
 Peak Name: "24-Diamino-5-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 506. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:47:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 3 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: 6.74e+005 counts
 Height: 164544.083 cps
 Start Time: 5.30 min
 End Time: 5.54 min



Sample Name: "1202055031" Sample ID: "95825721ER" File: "EX903120046.wif"
 Peak Name: "tris-(o-cresyl) phosphate" Mass(es): "369.181.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 537. ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 3:47:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 3 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.15e+006 counts
 Height: 1520286.602 cps
 Start Time: 10.6 min
 End Time: 11.2 min



MISCELLANEOUS DATA

Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 958253
Analyst: Sirena White
Method: SW846 8330 PREP

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)	
120205028 MB	02-MAR-2010 16:58:00	2	10	5	
120205031 LCS	02-MAR-2010 16:58:00	2	10	5	
248027002	02-MAR-2010 16:58:00	2	10	5	
120205029 MS (248027002)	02-MAR-2010 16:58:00	2	10	5	
120205030 MSD (248027002)	02-MAR-2010 16:58:00	2	10	5	
248027003	02-MAR-2010 16:58:00	2	10	5	
248027004	02-MAR-2010 16:58:00	2	10	5	
248027005	02-MAR-2010 16:58:00	2	10	5	
248027006	02-MAR-2010 16:58:00	2	10	5	
248029001	02-MAR-2010 16:58:00	2	10	5	
248029002	02-MAR-2010 16:58:00	2	10	5	
248029003	02-MAR-2010 16:58:00	2	10	5	
248029004	02-MAR-2010 16:58:00	2	10	5	
248029005	02-MAR-2010 16:58:00	2	10	5	
248029006	02-MAR-2010 16:58:00	2	10	5	
248029007	02-MAR-2010 16:58:00	2	10	5	
248029008	02-MAR-2010 16:58:00	2	10	5	
248029009	02-MAR-2010 16:58:00	2	10	5	
248068001	02-MAR-2010 16:58:00	2	10	5	
248068002	02-MAR-2010 16:58:00	2	10	5	
Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	120205031	8321 Explosives LCS	DX100225-03	.1	mL
LCS	120205031	8321 LANL Explosives Mix 10mg/L	UXX100223-02.01	1	mL
MS	120205029	8321 Explosives LCS	DX100225-03	.1	mL
MS	120205029	8321 LANL Explosives Mix 10mg/L	UXX100223-02.01	1	mL
MSD	120205030	8321 Explosives LCS	DX100225-03	.1	mL
MSD	120205030	8321 LANL Explosives Mix 10mg/L	UXX100223-02.01	1	mL
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	DX100301-02	.05	mL
Comments: Final Solvent: ACN					

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 04/08/10
 Extr. Injection Volume: 50uL
 Sequence Number: 040810expA
 Initial Calibration Date: 04/08/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100324-02.2
 Mobile Phase Lot#: 1296548, 1289686
 Standard-Samp Reagent Lot#: 1292884, 1293274
 Reviewed By: *HML*
 Date: *04/13/10*
 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	10-2024	2	LANL	USE	S
EXP0408092a	248012002	MAP	4/10/10 18:20	958247	10-2027	2	LANL	USE	S
EXP0408093a	248012003	MAP	4/10/10 18:49	958247	10-2027	2	LANL	USE	S
EXP0408094a	248012004	MAP	4/10/10 19:19	958247	10-2027	2	LANL	USE	S
EXP0408095a	248012005	MAP	4/10/10 19:48	958247	10-2027	2	LANL	USE	S
EXP0408096a	248012006	MAP	4/10/10 20:18	958247	10-2027	2	LANL	USE	S
EXP0408097a	248012007	MAP	4/10/10 20:47	958247	10-2027	2	LANL	USE	S
EXP0408098a	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

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/12/10
 Extr. Injection Volume: 10uL
 Sequence Number: 031210
 Initial Calibration Date: 031210

Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217

Reviewed By: *H.M.M.*
 Date: 03/17/10
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100312-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03120001.wiff	XIBLK01	LER	3/12/2010 16:00			1		USE	B
EXS03120002.wiff	XIBLK01	LER	3/12/2010 16:16			1		USE	B
EXS03120003.wiff	WXXICAL-19	LER	3/12/2010 16:32			1		USE	I
EXS03120004.wiff	WXXICAL-20	LER	3/12/2010 16:47			1		USE	I
EXS03120005.wiff	WXXICAL-21	LER	3/12/2010 17:03			1		USE	I
EXS03120006.wiff	WXXICAL-22	LER	3/12/2010 17:19			1		USE	I
EXS03120007.wiff	WXXICAL-23	LER	3/12/2010 17:35			1		USE	I
EXS03120008.wiff	WXXICAL-24	LER	3/12/2010 17:50			1		USE	I
EXS03120009.wiff	WXXICAL-25	LER	3/12/2010 18:06			1		USE	I
EXS03120010.wiff	XIBLK02	LER	3/12/2010 18:22			1		USE	B
EXS03120011.wiff	WXXICV	LER	3/12/2010 18:37			1		USE	C
EXS03120012.wiff	XIBLK03	LER	3/12/2010 18:53			1		USE	B
EXS03120013.wiff	WXXCRI	LER	3/12/2010 19:09			1		USE	C
EXS03120014.wiff	1202055009	LER	3/12/2010 19:24	958251	10-2065	2	LANL	USE	S
EXS03120015.wiff	1202055010	LER	3/12/2010 19:40	958251	10-2065	2	LANL	USE	S
EXS03120016.wiff	248048001	LER	3/12/2010 19:56	958251	10-2065	2	LANL	USE	S
EXS03120017.wiff	1202055011	LER	3/12/2010 20:12	958251	10-2065	2	LANL	USE	S
EXS03120018.wiff	1202055012	LER	3/12/2010 20:27	958251	10-2065	2	LANL	USE	S
EXS03120019.wiff	248048002	LER	3/12/2010 20:43	958251	10-2065	2	LANL	USE	S
EXS03120020.wiff	248048003	LER	3/12/2010 20:59	958251	10-2065	2	LANL	USE	S
EXS03120021.wiff	248048004	LER	3/12/2010 21:14	958251	10-2065	2	LANL	USE	S
EXS03120022.wiff	248048005	LER	3/12/2010 21:30	958251	10-2065	2	LANL	USE	S
EXS03120023.wiff	248048006	LER	3/12/2010 21:46	958251	10-2065	2	LANL	USE	S
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EXS03120025.wiff	XIBLK04	LER	3/12/2010 22:17			1		USE	B
EXS03120026.wiff	WXXCRI	LER	3/12/2010 22:33			1		USE	C
EXS03120027.wiff	248048007	LER	3/12/2010 22:49	958251	10-2065	2	LANL	USE	S
EXS03120028.wiff	248048008	LER	3/12/2010 23:04	958251	10-2065	2	LANL	USE	S
EXS03120029.wiff	248048009	LER	3/12/2010 23:20	958251	10-2065	2	LANL	USE	S

EXS03120030.wiff	248048010	LER	3/12/2010 23:36	958251	10-2065	2	LANL	USE	S
EXS03120031.wiff	248048011	LER	3/12/2010 23:51	958251	10-2065	2	LANL	USE	S
EXS03120032.wiff	248048012	LER	3/13/2010 0:07	958251	10-2065	2	LANL	USE	S
EXS03120033.wiff	248048013	LER	3/13/2010 0:23	958251	10-2065	2	LANL	USE	S
EXS03120034.wiff	248048014	LER	3/13/2010 0:39	958251	10-2065	2	LANL	USE	S
EXS03120035.wiff	248048015	LER	3/13/2010 0:54	958251	10-2065	2	LANL	USE	S
EXS03120036.wiff	248048016	LER	3/13/2010 1:10	958251	10-2065	2	LANL	USE	S
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EXS03120038.wiff	XIBLK05	LER	3/13/2010 1:41			1		USE	B
EXS03120039.wiff	WXXCRI	LER	3/13/2010 1:57			1		USE	C
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EXS03120042.wiff	248048019	LER	3/13/2010 2:44	958251	10-2065	2	LANL	USE	S
EXS03120043.wiff	248048020	LER	3/13/2010 3:00	958251	10-2065	2	LANL	USE	S
EXS03120044.wiff	XIBLK06	LER	3/13/2010 3:16			1		USE	B
EXS03120045.wiff	1202055028	LER	3/13/2010 3:31	958257	VARIOUS	2	LANL	USE	S
EXS03120046.wiff	1202055031	LER	3/13/2010 3:47	958257	VARIOUS	2	LANL	USE	S
EXS03120047.wiff	248027002	LER	3/13/2010 4:03	958257	10-2068	2	LANL	USE	S
EXS03120048.wiff	1202055029	LER	3/13/2010 4:18	958257	10-2068	2	LANL	USE	S
EXS03120049.wiff	1202055030	LER	3/13/2010 4:34	958257	10-2068	2	LANL	USE	S
EXS03120050.wiff	WXXCCV	LER	3/13/2010 4:50			1		USE	C
EXS03120051.wiff	XIBLK07	LER	3/13/2010 5:06			1		USE	B
EXS03120052.wiff	WXXCRI	LER	3/13/2010 5:21			1		USE	C
EXS03120053.wiff	248027003	LER	3/13/2010 5:37	958257	10-2068	2	LANL	USE	S
EXS03120054.wiff	248027004	LER	3/13/2010 5:53	958257	10-2068	2	LANL	USE	S
EXS03120055.wiff	248027005	LER	3/13/2010 6:08	958257	10-2068	2	LANL	USE	S
EXS03120056.wiff	248027006	LER	3/13/2010 6:24	958257	10-2068	2	LANL	USE	S
EXS03120057.wiff	248029001	LER	3/13/2010 6:40	958257	10-2071	2	LANL	USE	S
EXS03120058.wiff	248029002	LER	3/13/2010 6:56	958257	10-2071	2	LANL	USE	S
EXS03120059.wiff	248029003	LER	3/13/2010 7:11	958257	10-2071	2	LANL	USE	S
EXS03120060.wiff	248029004	LER	3/13/2010 7:27	958257	10-2071	2	LANL	USE	S
EXS03120061.wiff	248029005	LER	3/13/2010 7:43	958257	10-2071	2	LANL	USE	S
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EXS03120065.wiff	WXXCRI	LER	3/13/2010 8:46			1		USE	C
EXS03120066.wiff	248029007	LER	3/13/2010 9:01	958257	10-2071	2	LANL	USE	S

EXS03120067.wiff	248029008	LER	3/13/2010 9:17	958267	10-2071	2	LANL	USE	S
EXS03120068.wiff	248029009	LER	3/13/2010 9:33	958267	10-2071	2	LANL	USE	S
EXS03120069.wiff	248068001	LER	3/13/2010 9:48	958267	10-2088	2	LANL	USE	S
EXS03120070.wiff	248068002	LER	3/13/2010 10:04	958267	10-2088	2	LANL	USE	S
EXS03120071.wiff	WXXCCV	LER	3/13/2010 10:20			1		USE	C
EXS03120072.wiff	XIBLK09	LER	3/13/2010 10:35			1		USE	B
EXS03120073.wiff	WXXCRI	LER	3/13/2010 10:51			1		USE	C
EXS03120074.wiff	1202055038	LER	3/13/2010 11:07	958267	10-2077	2	LANL	USE	S
EXS03120075.wiff	1202055039	LER	3/13/2010 11:23	958267	10-2077	2	LANL	USE	S
EXS03120076.wiff	248052001	LER	3/13/2010 11:38	958267	10-2077	2	LANL	USE	S
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EXS03120078.wiff	1202055041	LER	3/13/2010 12:10	958267	10-2077	2	LANL	USE	S
EXS03120079.wiff	248052002	LER	3/13/2010 12:25	958267	10-2077	2	LANL	USE	S
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EXS03120081.wiff	248052004	LER	3/13/2010 12:57	958267	10-2077	2	LANL	USE	S
EXS03120082.wiff	248052005	LER	3/13/2010 13:13	958267	10-2077	2	LANL	USE	S
EXS03120083.wiff	248052006	LER	3/13/2010 13:28	958267	10-2077	2	LANL	USE	S
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EXS03120085.wiff	XIBLK10	LER	3/13/2010 14:00			1		USE	B
EXS03120086.wiff	WXXCRI	LER	3/13/2010 14:15			1		USE	C
EXS03120087.wiff	248052007	LER	3/13/2010 14:31	958267	10-2077	2	LANL	USE	S
EXS03120088.wiff	248052008	LER	3/13/2010 14:47	958267	10-2077	2	LANL	USE	S
EXS03120089.wiff	248052009	LER	3/13/2010 15:02	958267	10-2077	2	LANL	USE	S
EXS03120090.wiff	248052010	LER	3/13/2010 15:18	958267	10-2077	2	LANL	USE	S
EXS03120091.wiff	248052011	LER	3/13/2010 15:34	958267	10-2077	2	LANL	USE	S
EXS03120092.wiff	248052012	LER	3/13/2010 15:50	958267	10-2077	2	LANL	USE	S
EXS03120093.wiff	248052013	LER	3/13/2010 16:05	958267	10-2077	2	LANL	USE	S
EXS03120094.wiff	248052014	LER	3/13/2010 16:21	958267	10-2077	2	LANL	USE	S
EXS03120095.wiff	248052015	LER	3/13/2010 16:37	958267	10-2077	2	LANL	USE	S
EXS03120096.wiff	248052016	LER	3/13/2010 16:52	958267	10-2077	2	LANL	USE	S
EXS03120097.wiff	WXXCCV	LER	3/13/2010 17:08			1		USE	C
EXS03120098.wiff	XIBLK11	LER	3/13/2010 17:24			1		USE	B
EXS03120099.wiff	WXXCRI	LER	3/13/2010 17:39			1		USE	C
EXS03120100.wiff	248052017	LER	3/13/2010 17:55	958267	10-2077	2	LANL	USE	S
EXS03120101.wiff	248052018	LER	3/13/2010 18:11	958267	10-2077	2	LANL	USE	S
EXS03120102.wiff	248052019	LER	3/13/2010 18:27	958267	10-2077	2	LANL	USE	S
EXS03120103.wiff	248052020	LER	3/13/2010 18:42	958267	10-2077	2	LANL	USE	S

EXS03120104.wiff	WXXCCV	LER	3/13/2010 18:58	1	USE	C
EXS03120105.wiff	XIBLK12	LER	3/13/2010 19:14	1	USE	B
EXS03120106.wiff	WXXCRI	LER	3/13/2010 19:29	1	USE	C

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Apr 12 11:59:59 2010, Page 7 of 105

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408126a

Date: 11-Apr-2010

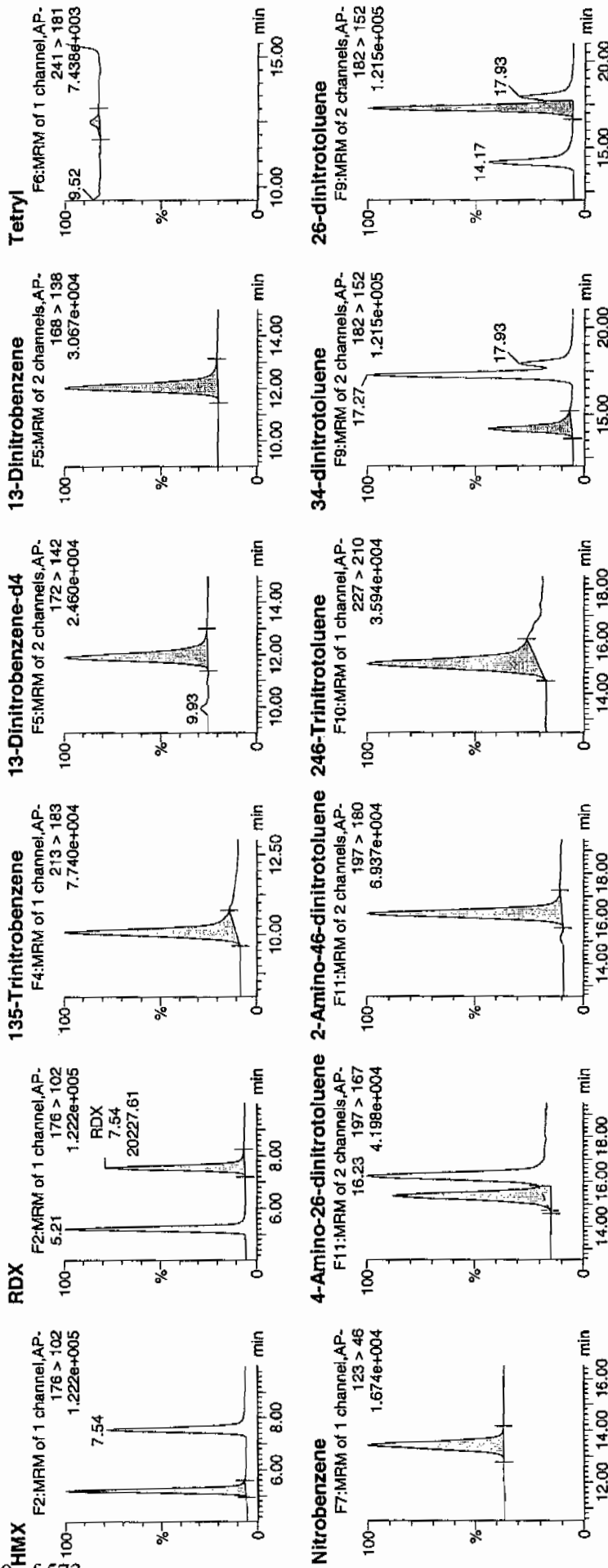
Time: 11:03:14

ID: 1202055029

Vial: 2:1,D

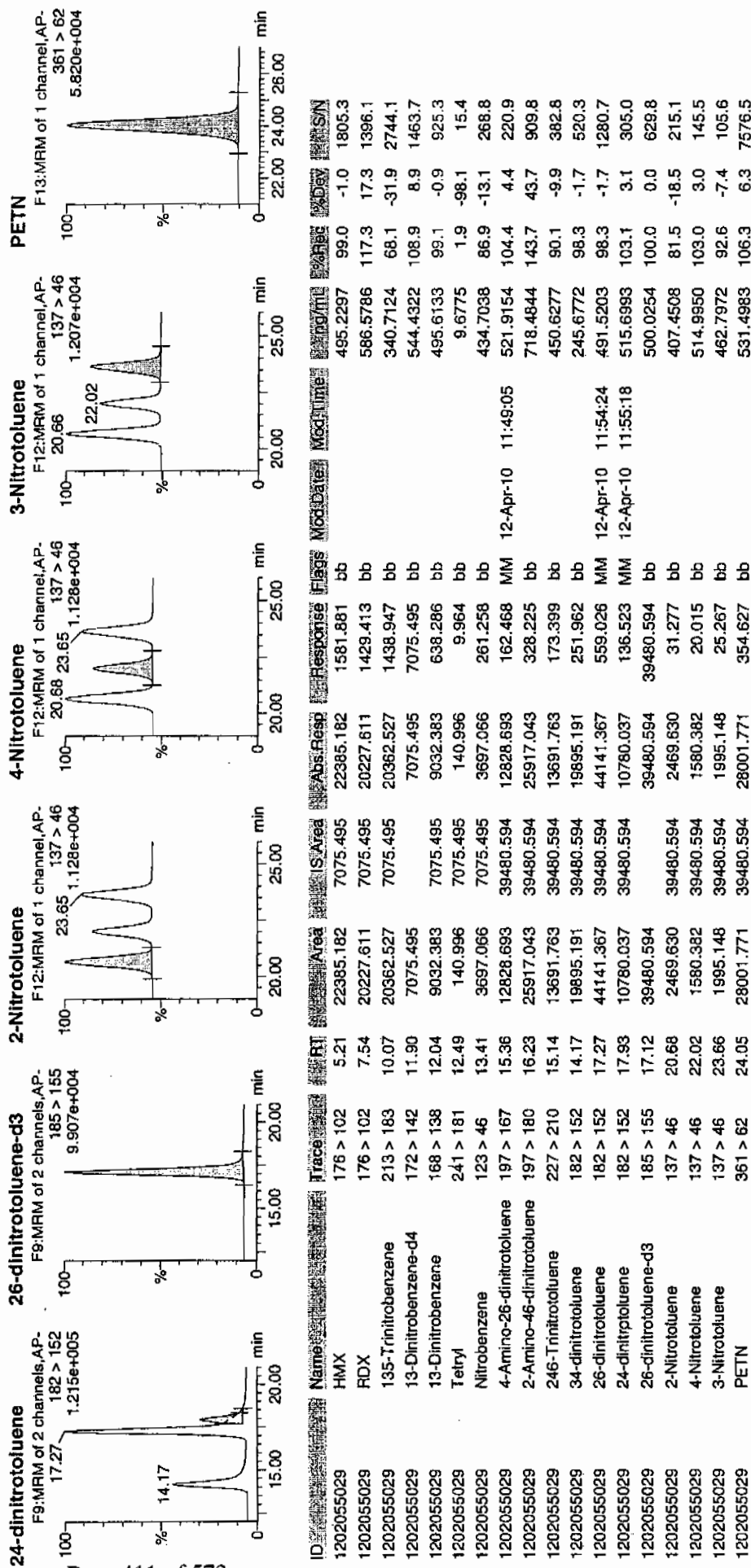
not
4/13/10

LAU/958257 / 248027002ms / 21

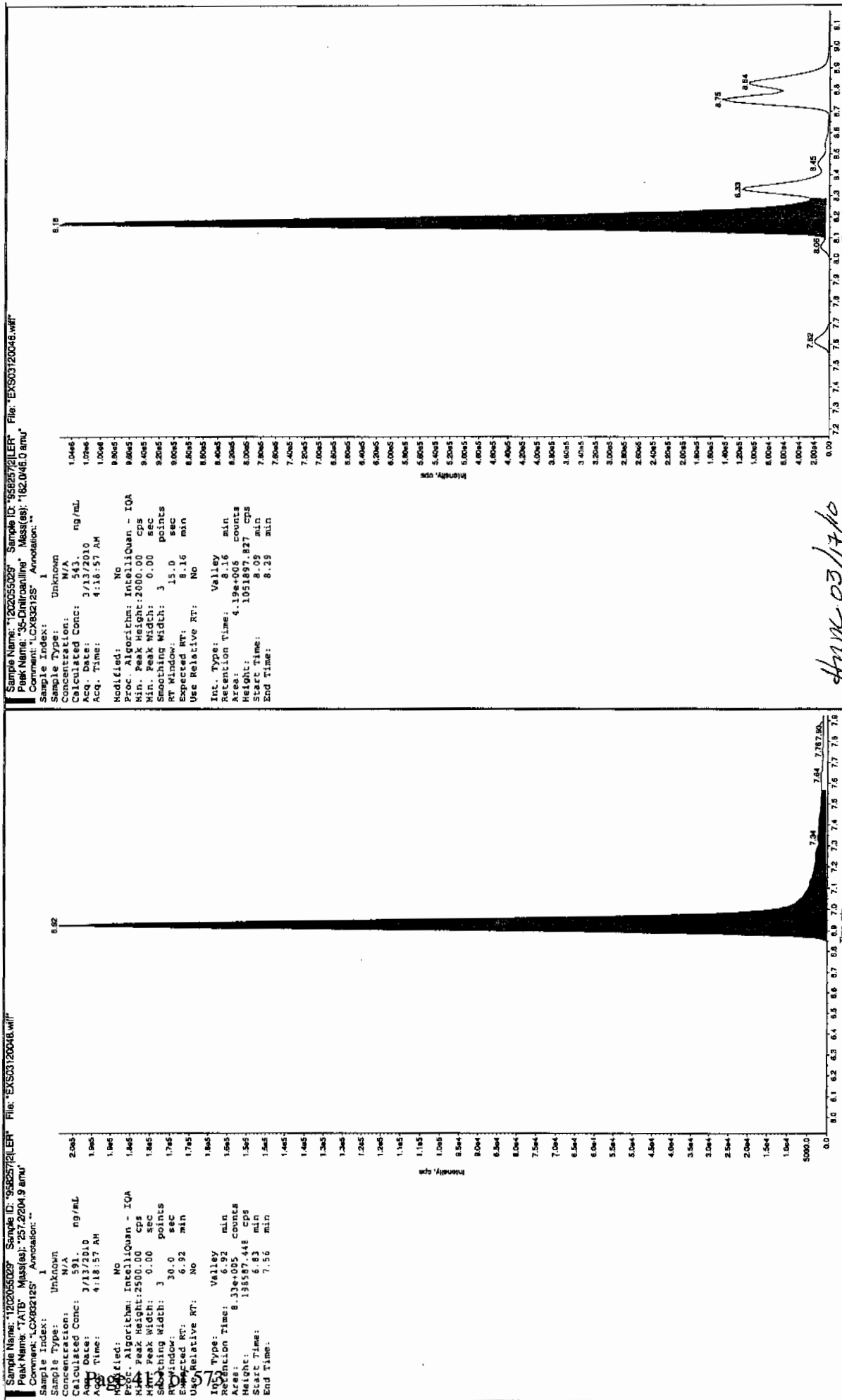


Handwritten signature
04/13/10

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA3.qjd, Time: Mon Apr 12 11:58:31 2010



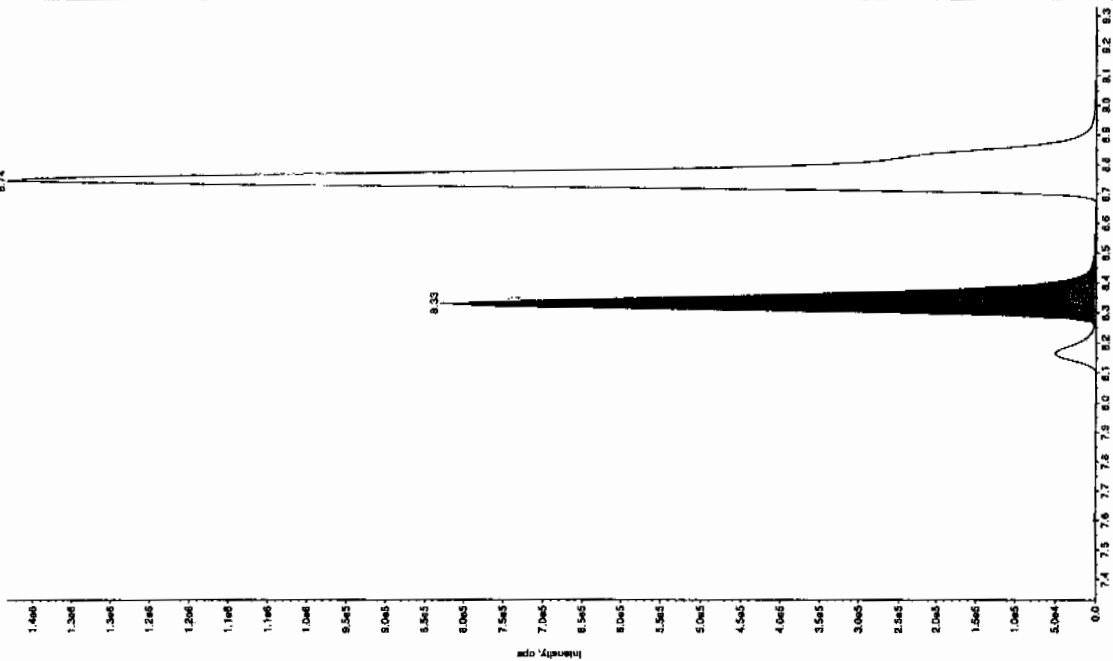
Scan 3/16/10



4/11/10 03/17/10

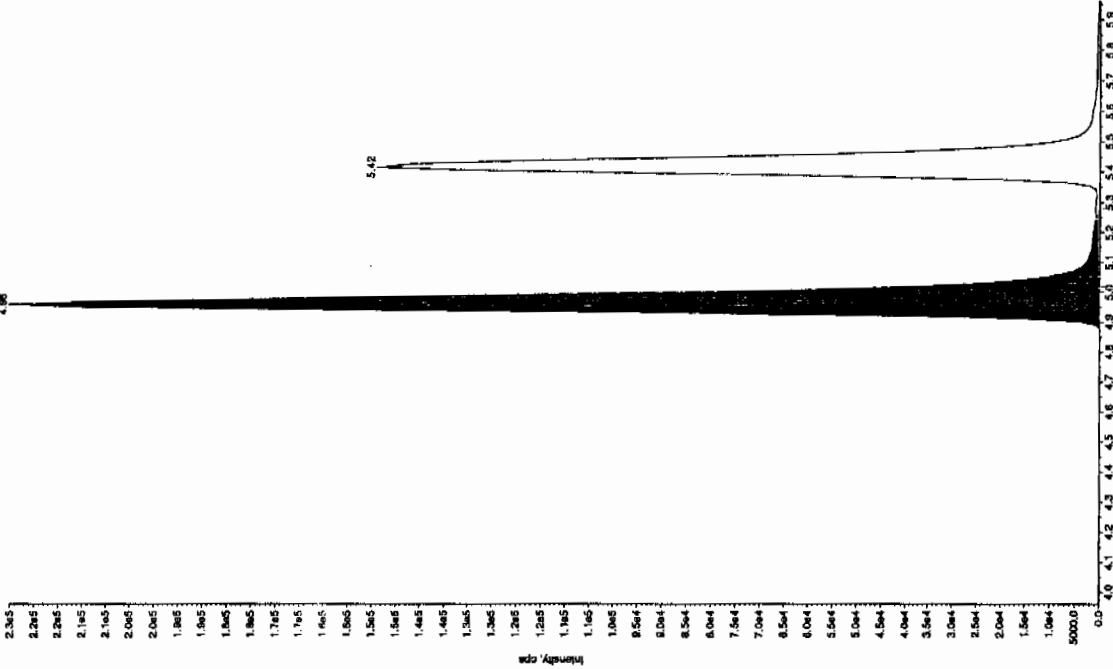
Sample Name: "120205029" Sample ID: "95825721ER" File: "EXS03120048.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"
 Comment: "LCX832125" Annotation: ""

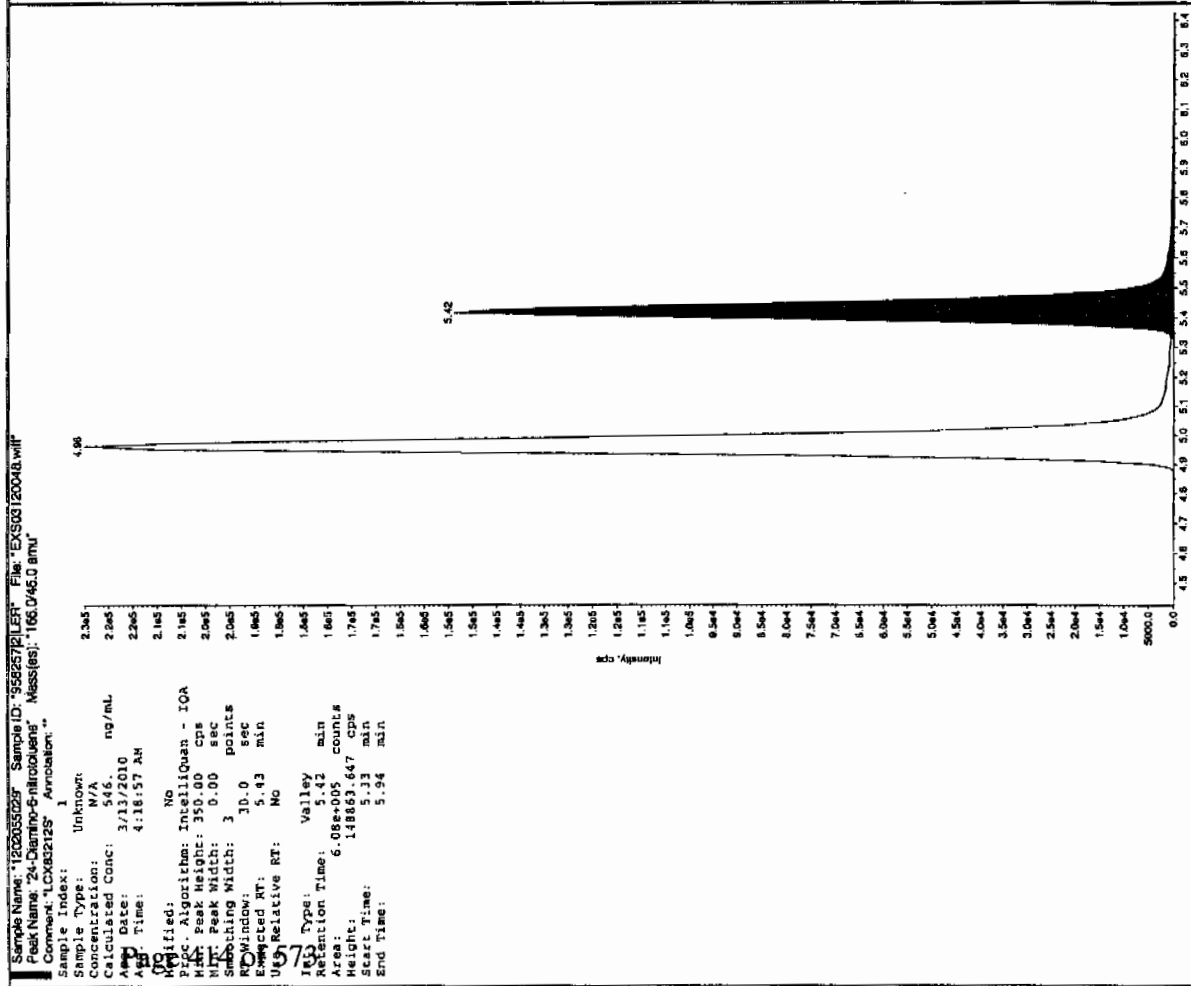
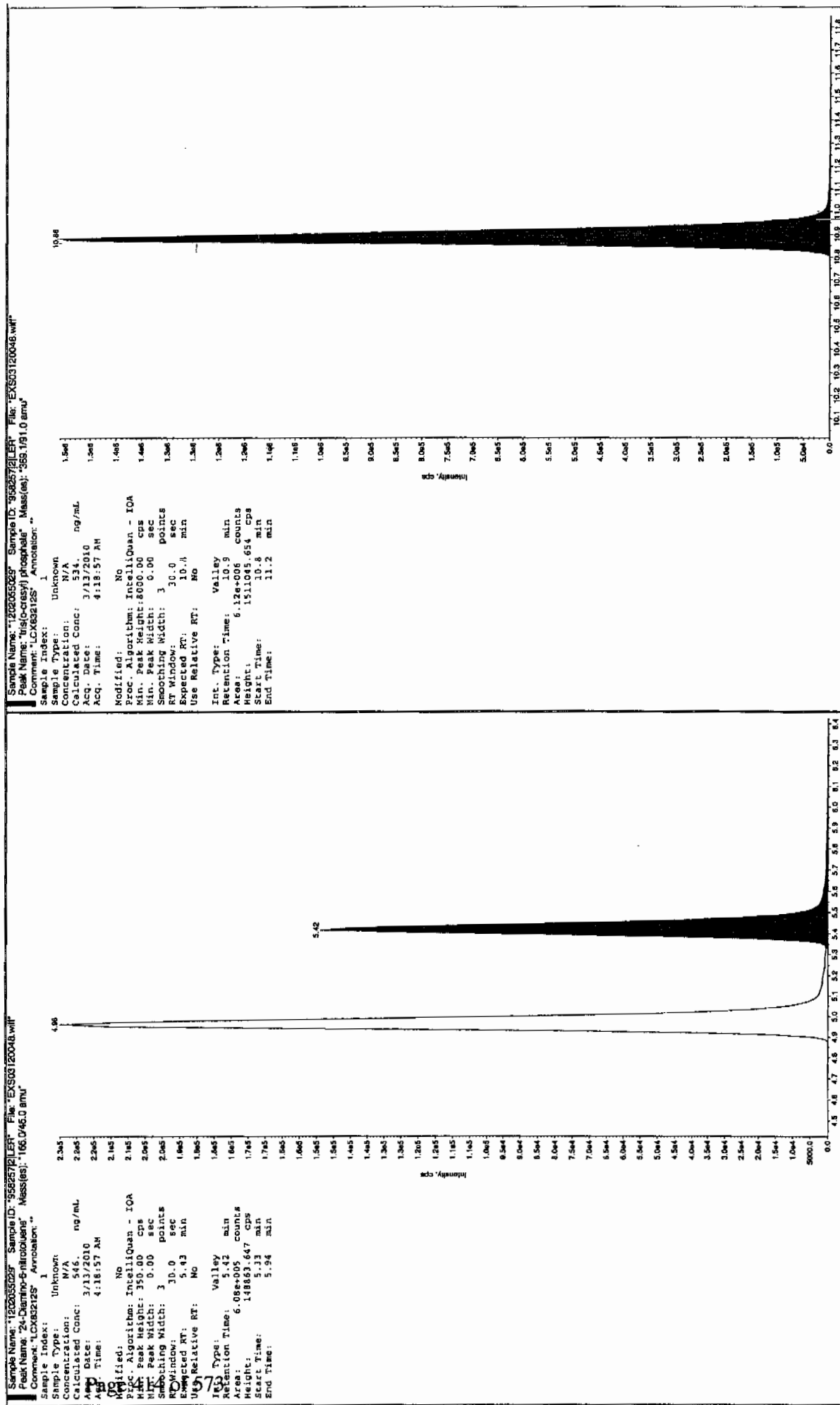
Sample Index: 1
 Sample Type: Unknown
 Concentration: 267.010 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 4:18:57 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 3.02e+006 counts
 Height: 82838.489 cps
 Start Time: 8.26 min
 End Time: 8.55 min



Sample Name: "120205029" Sample ID: "95825721ER" File: "EXS03120048.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0/168.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 2335 ng/mL
 Acq. Date: 3/13/2010
 Acq. Time: 4:18:57 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: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 9.18e+005 counts
 Height: 225176.086 cps
 Start Time: 4.87 min
 End Time: 5.26 min





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

Dataset: C:\MASSLYNX\New_Exp\PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0408127a

Date: 11-Apr-2010

Time: 11:32:41

ID: 1202055030

Vial: 2:1,E

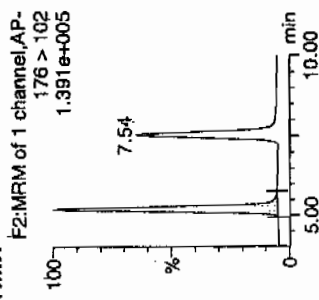
4/12/10

21

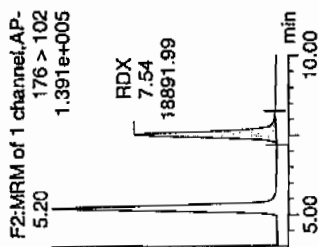
24802702123

958257

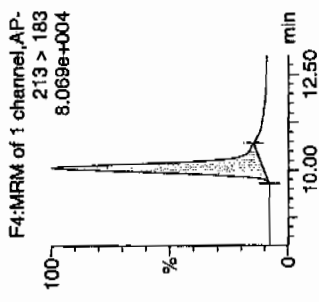
HMX



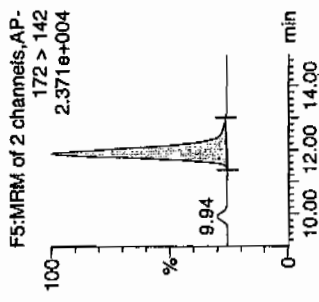
RDX



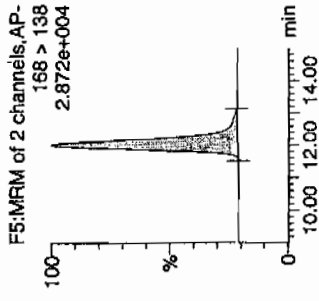
135-Trinitrobenzene



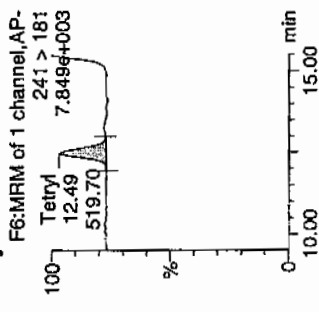
13-Dinitrobenzene-d4



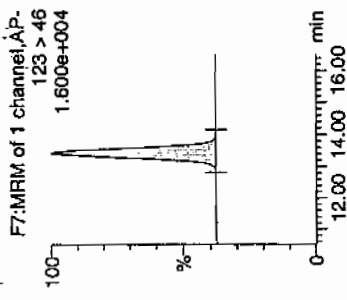
13-Dinitrobenzene



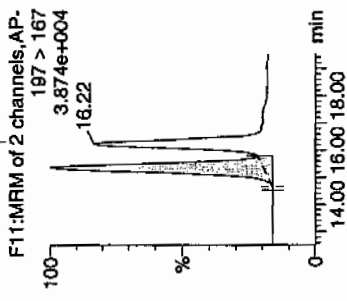
Tetryl



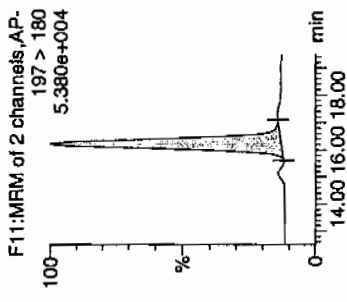
Nitrobenzene



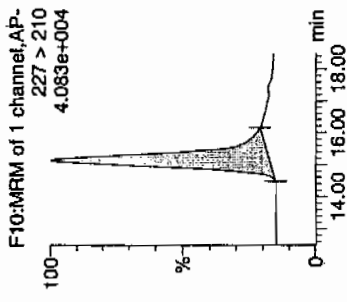
4-Amino-26-dinitrotoluene



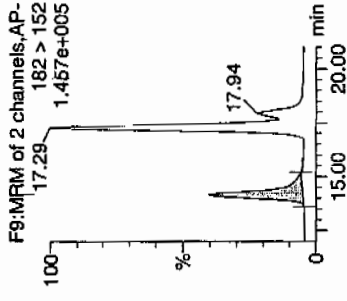
2-Amino-46-dinitrotoluene



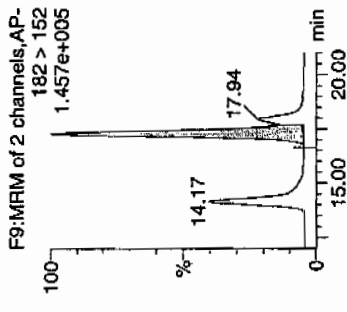
246-Trinitrotoluene



34-dinitrotoluene

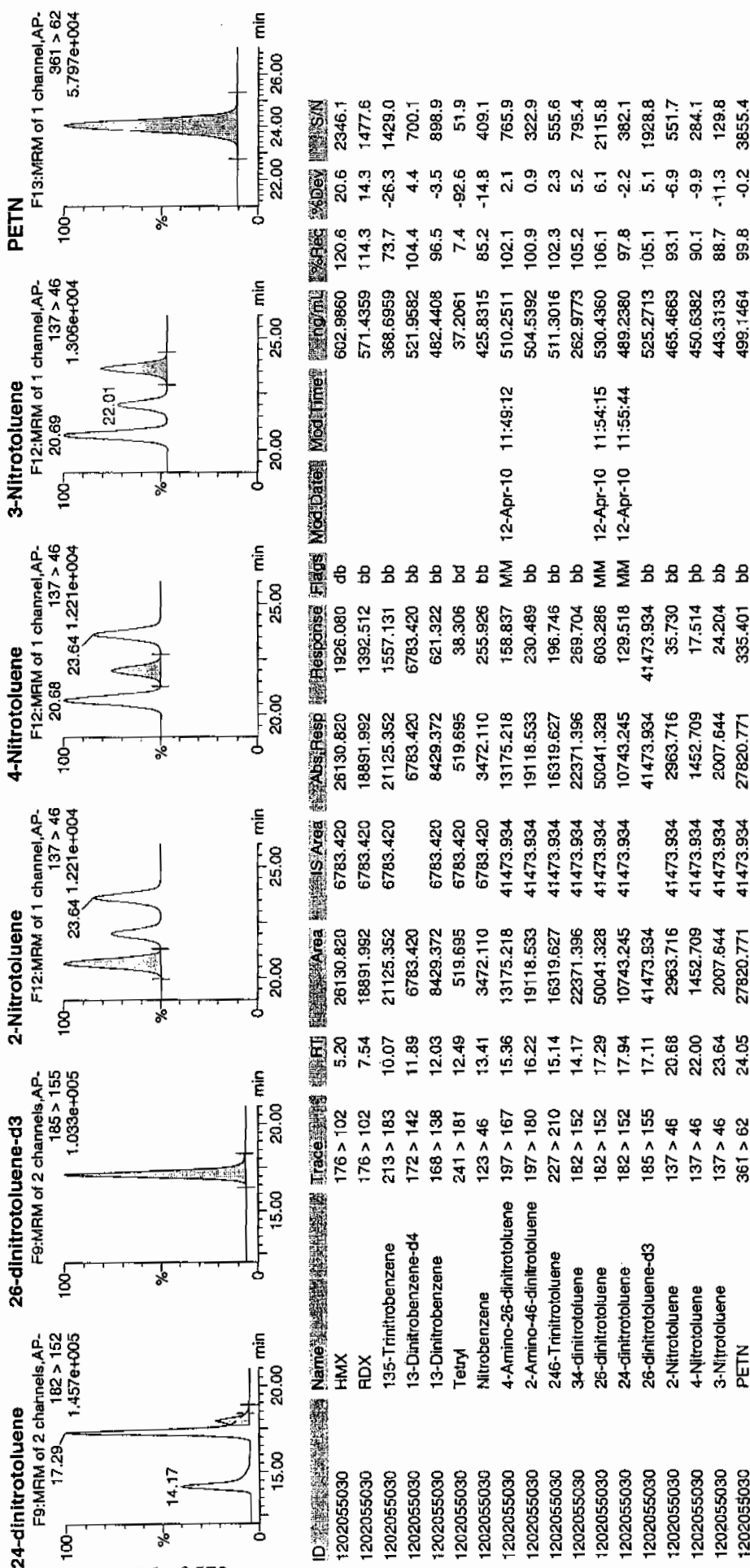


26-dinitrotoluene

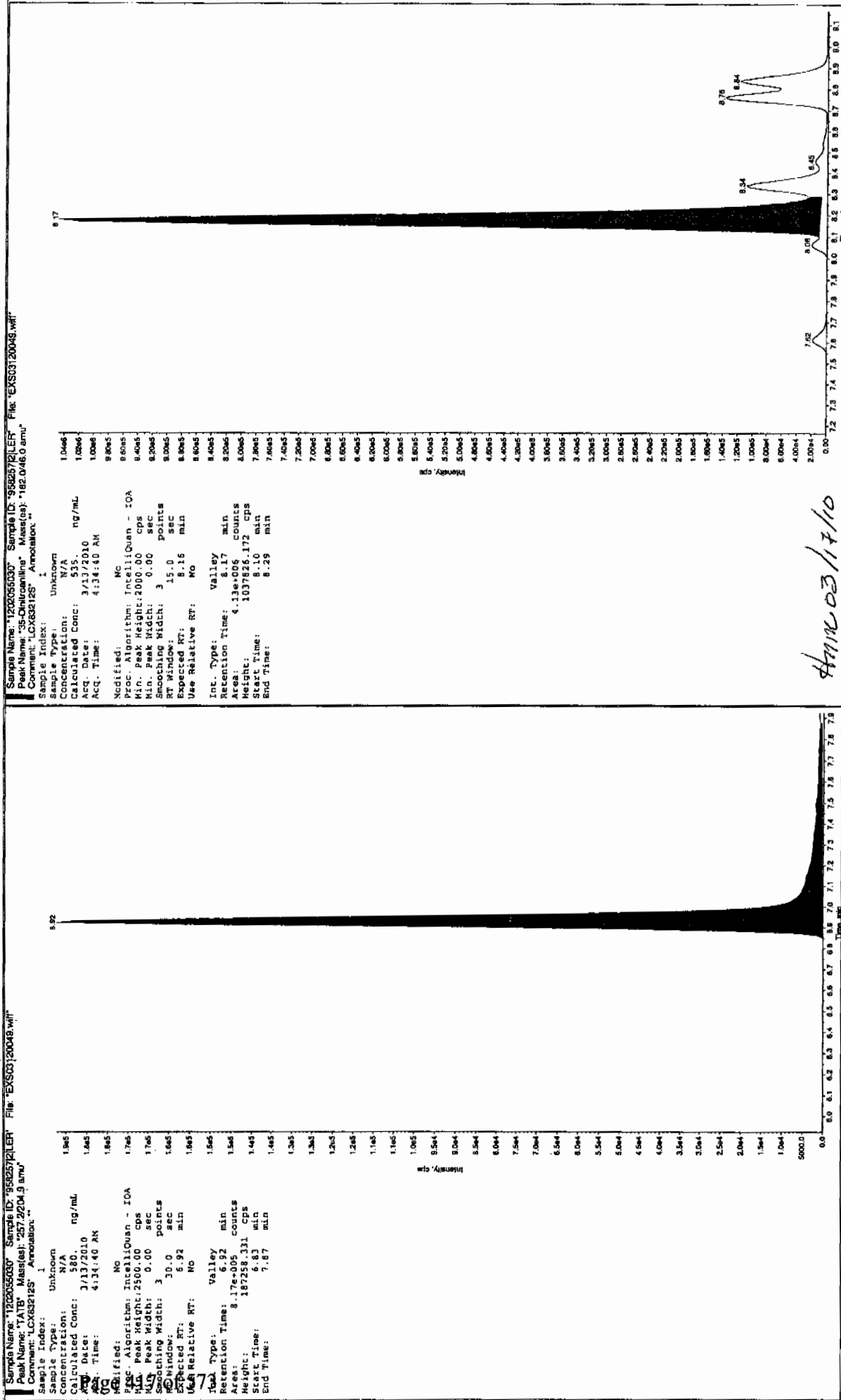


4/12/10

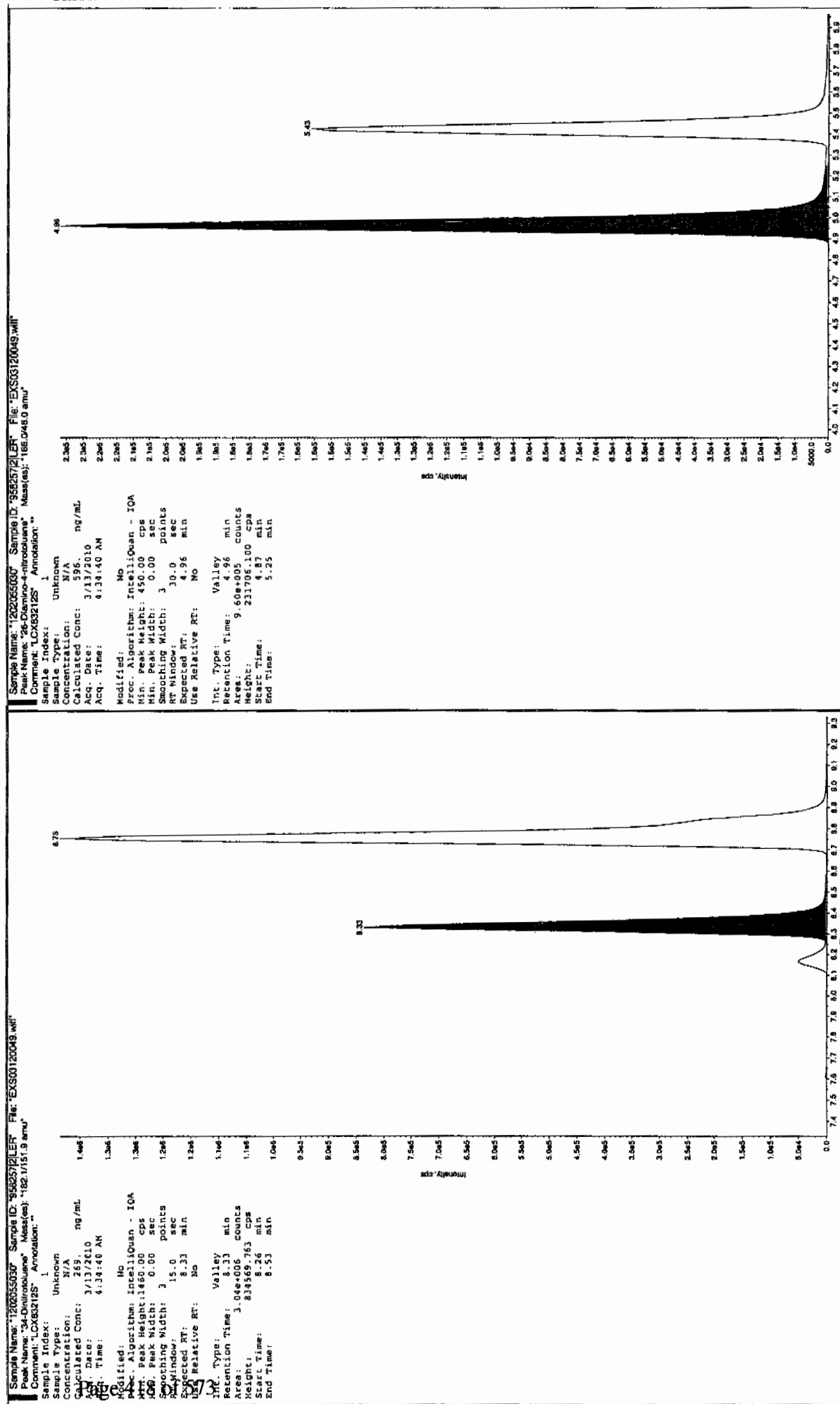
Dataset: C:\MASSLYNX\New_Exp.PRO\040810expA3.qld, Time: Mon Apr 12 11:58:31 2010

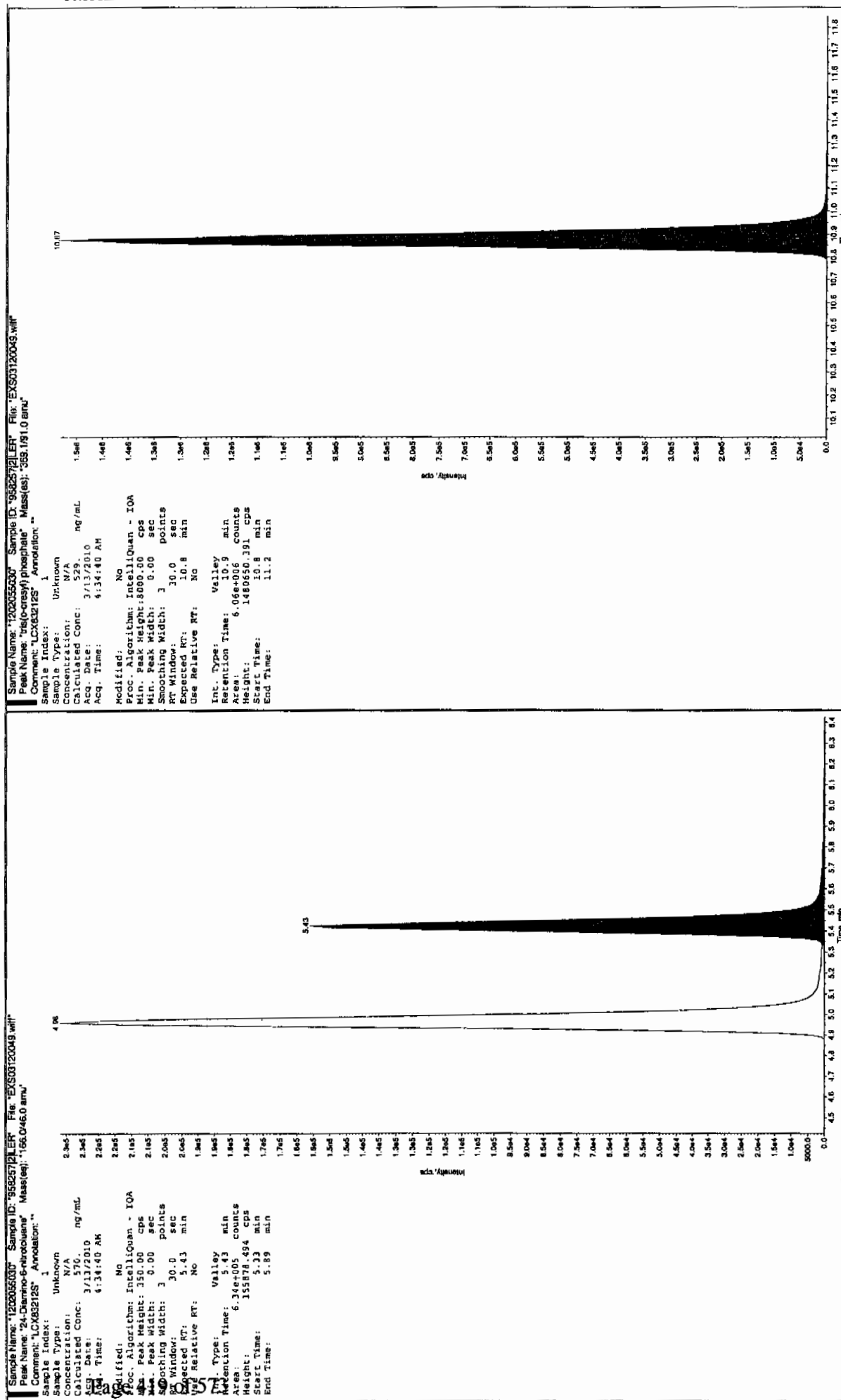


Run 3/16/10



Run 03/17/10





GEL Laboratories LLC
Form GEL-DER

DER Report No.: 816254
Revision No.:

DATA EXCEPTION REPORT

Mo. Day Yr. 12-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: 958257	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 248027(10-2068), 248029(10-2071), 248068(10-2088) Application Issues: Failed Recovery for MSD/PSD Failed Recovery for LCS/LCSD Failed Recovery for MS/PS Failed RPD for MS/MSD, or PS/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. The LCS (1202055031) did not meet spike recovery limits for Tetryl at 22.9% with limits of 51-112% and 2,4-Diamino-6-nitrotoluene at 121% with limits of 52-114%. 2. The MS (1202055029) did not meet spike recovery limits for Tetryl at 1.94% with limits of 36-124% and 2-Amino-4,6-dinitrotoluene at 144% with limits of 85-137%. 3. The MSD (1202055030) did not meet spike recovery limits for Tetryl at 7.44%. The recovery limits are 36-124%. 4. The MS/MSD pair (1202055029/030) did not meet RPD acceptance limits for Tetryl at 117% and 2-Amino-4,6-dinitrotoluene at 35.0%. The acceptance limits are 0-30%, respectively.		1. While Tetryl did not meet in-house recovery limits, it did meet the DOD QSM limits of 10-150%. While the LCS exhibited a high bias, both the MS and MSD met acceptance limits for 2,4-Diamino-6-nitrotoluene. 2,4-Diamino-6-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. & 3. Since all other spike recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative. 4. Since all other RPD recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.	

Originator's Name:
Michael Penny 12-APR-10

Data Validator/Group Leader:
Herbert Maler 13-APR-10

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2071**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 961047
Prep Batch Number: 961046

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
248029001	RE15-10-7902
248029002	RE15-10-7901
248029009	RE15-10-8067
1202061359	Method Blank (MB)
1202061360	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 15.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Continuing Calibration Verification (CCV) Requirements

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

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

The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

A LANL sample of similar matrix associated with another SDG (#10-2024) was selected for the matrix spike and matrix spike duplicate analysis; however the parent sample was re-extracted and reported in another batch.

Technical Information**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information**Electronic Package Comment**

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integration

Certain standards and samples may have required manual integration to correctly position the baseline as set in the

calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VII's will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD1A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.J_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: Jimmi Cao

Date: 3/23/10

Roadmap for LANL 10-2071 PCB

This roadmap was analyzed by yip00818 on 03-08-2010, 10:49.

This roadmap was reviewed by rob01090 on 03-09-2010, 16:02.

This roadmap was packaged by yml on 03-23-2010, 07:32.

This roadmap was validated by jim01140 on 03-23-2010, 13:56.

Front Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/069f6901.d	248029001	sample	05-MAR-2010	19:34	10-2071.sub	RE15-10-7902	1.00000	961047	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/070b7001.d	248029002	sample	05-MAR-2010	19:47	10-2071.sub	RE15-10-7901	1.00000	961047	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/071b7101.d	248029009	sample	05-MAR-2010	20:00	10-2071.sub	RE15-10-8067	1.00000	961047	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/069f6901.d	248029001	sample	05-MAR-2010	19:34	10-2071.sub	RE15-10-7902	1.00000	961047	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/070b7001.d	248029002	sample	05-MAR-2010	19:47	10-2071.sub	RE15-10-7901	1.00000	961047	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/071b7101.d	248029009	sample	05-MAR-2010	20:00	10-2071.sub	RE15-10-8067	1.00000	961047	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/047f4701-3.d	1202061359	mb	05-MAR-2010	14:57	10-2071.sub	PBLK01	1.00000	961047	
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/048f4801-3.d	1202061360	lcs	05-MAR-2010	15:09	10-2071.sub	PBLK01LCS	1.00000	961047	

Back QC Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/047f4701-3.d	1202061359	mb	05-MAR-2010	14:57	10-2071.sub	PBLK01	1.00000	961047	
<input type="checkbox"/>	N	/chem/ecd1a.i/030510.b/048f4801-3.d	1202061360	lcs	05-MAR-2010	15:09	10-2071.sub	PBLK01LCS	1.00000	961047	

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2071
Lab Sample ID: 248029002

Date Collected: 02/19/2010 12:00
Date Received: 02/25/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.18 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 34.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7901
Batch ID: 961047
Run Date: 03/05/2010 19:47
Prep Date: 03/04/2010 22:58
Data File: 070f7001.d
070b7001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	5.07	ug/kg	1.69	5.07	1
11104-28-2	Aroclor-1221	U	5.07	ug/kg	1.69	5.07	1
11141-16-5	Aroclor-1232	U	5.07	ug/kg	1.69	5.07	1
53469-21-9	Aroclor-1242	U	5.07	ug/kg	1.69	5.07	1
12672-29-6	Aroclor-1248	U	5.07	ug/kg	1.69	5.07	1
11097-69-1	Aroclor-1254	U	5.07	ug/kg	1.69	5.07	1
11096-82-5	Aroclor-1260	U	5.07	ug/kg	1.69	5.07	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number:	10-2071	Date Collected:	02/19/2010 12:00	Matrix:	R
Lab Sample ID:	248029001	Date Received:	02/25/2010 08:45	%Moisture:	15.6
Client ID:	RE15-10-7902	Client:	LANL010	Project:	LANL01004
Batch ID:	961047	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	03/05/2010 19:34	Inst:	ECD1A.I	Dilution:	1
Prep Date:	03/04/2010 22:58	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	069f6901.d	Aliquot:	30.12 g	Final Volume:	1 mL
	069b6901.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.93	ug/kg	1.31	3.93	1
11104-28-2	Aroclor-1221	U	3.93	ug/kg	1.31	3.93	1
11141-16-5	Aroclor-1232	U	3.93	ug/kg	1.31	3.93	1
53469-21-9	Aroclor-1242	U	3.93	ug/kg	1.31	3.93	1
12672-29-6	Aroclor-1248	U	3.93	ug/kg	1.31	3.93	1
11097-69-1	Aroclor-1254		8.30	ug/kg	1.31	3.93	1
11096-82-5	Aroclor-1260		5.30	ug/kg	1.31	3.93	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2071	Date Collected: 02/19/2010 12:00	Matrix: R
Lab Sample ID: 248029009	Date Received: 02/25/2010 08:45	% Moisture: 17.9
Client ID: RE15-10-8067	Client: LANL010	Project: LANL01004
Batch ID: 961047	Method: SW846 8082	SOP Ref: GL-OA-E-040
Run Date: 03/05/2010 20:00	Inst: ECD1A.I	Dilution: 1
Prep Date: 03/04/2010 22:58	Analyst: YS1	Inj. Vol: 1 uL
Data File: 071f7101.d	Aliquot: 30.11 g	Final Volume: 1 mL
	Column: 1 CLP1	Level: LOW
	2 CLP2	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.05	ug/kg	1.35	4.05	1
11104-28-2	Aroclor-1221	U	4.05	ug/kg	1.35	4.05	1
11141-16-5	Aroclor-1232	U	4.05	ug/kg	1.35	4.05	1
53469-21-9	Aroclor-1242	U	4.05	ug/kg	1.35	4.05	1
12672-29-6	Aroclor-1248	U	4.05	ug/kg	1.35	4.05	1
11097-69-1	Aroclor-1254	U	4.05	ug/kg	1.35	4.05	1
11096-82-5	Aroclor-1260	U	4.05	ug/kg	1.35	4.05	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-2071

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 #
1202061359	MB for batch 961046	75	75	78	77
1202061360	LCS for batch 961046	74	73	77	76
248029001	RE15-10-7902	61	61	66	58
248029002	RE15-10-7901	44	43	46	41
248029009	RE15-10-8067	60	58	61	55

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: 10-2071

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 961046

Matrix: SOIL

Lab Sample ID:1202061360

Instrument: ECD1A.I

Analysis Date: 03/05/2010 15:09

Dilution: 1

Analyst: YS1

Prep Batch II 961046

Inj. Vol: 1 uL

Batch ID: 961047

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	27.0	81	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	32.8	98	45-118

Method Blank Summary

Page 1 of 1

SDG Number:	10-2071	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 961046	Instrument ID:	ECD1A.I_2	Data File:	047b4701-1.d
Lah Sample ID:	1202061359		ECD1A.I_1		047f4701-1.d
Column:	CLP2	Prep Date:	03/04/2010 22:58	Analyzed:	03/05/10 14:57
	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 961046	1202061360	048f4801-1.d 048b4801-1.d	03/05/10	1509
02 RE15-10-7902	248029001	069f6901.d 069b6901.d	03/05/10	1934
03 RE15-10-7901	248029002	070f7001.d 070b7001.d	03/05/10	1947
04 RE15-10-8067	248029009	071f7101.d 071b7101.d	03/05/10	2000

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-2071	Date Collected:	02/19/2010 12:00	Matrix:	R
Lab Sample ID:	248029002	Date Received:	02/25/2010 08:45	% Moisture:	34.7
Client ID:	RE15-10-7901	Client:	LANL010	Project:	LANL01004
Batch ID:	961047	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	03/05/2010 19:47	Inst:	ECD1A.I	Dilution:	1
Prep Date:	03/04/2010 22:58	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	070f7001.d	Aliquot:	30.18 g	Final Volume:	1 mL
	070b7001.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	5.07	ug/kg	1.69	5.07	1
11104-28-2	Aroclor-1221	U	5.07	ug/kg	1.69	5.07	1
11141-16-5	Aroclor-1232	U	5.07	ug/kg	1.69	5.07	1
53469-21-9	Aroclor-1242	U	5.07	ug/kg	1.69	5.07	1
12672-29-6	Aroclor-1248	U	5.07	ug/kg	1.69	5.07	1
11097-69-1	Aroclor-1254	U	5.07	ug/kg	1.69	5.07	1
11096-82-5	Aroclor-1260	U	5.07	ug/kg	1.69	5.07	1

Data File: /chem/ecdla.i/030510.b/070f7001.d
Report Date: 08-Mar-2010 07:34

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/070f7001.d
Lab Smp Id: 248029002 Client Smp ID: RE15-10-7901
Inj Date : 05-MAR-2010 19:47
Operator : YS1 Inst ID: ecdla.i
Smp Info : |248029002|1|
Misc Info : |ECD82P_1S|961047|2|SVA|LANL|SOIL|RE15-10-7901|||
Comment :
Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m
Meth Date : 08-Mar-2010 06:26 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2071.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	30.18000	Weight of sample extracted (g)
M	34.65830	% Moisture

Cpnd Variable Local Compound Variable

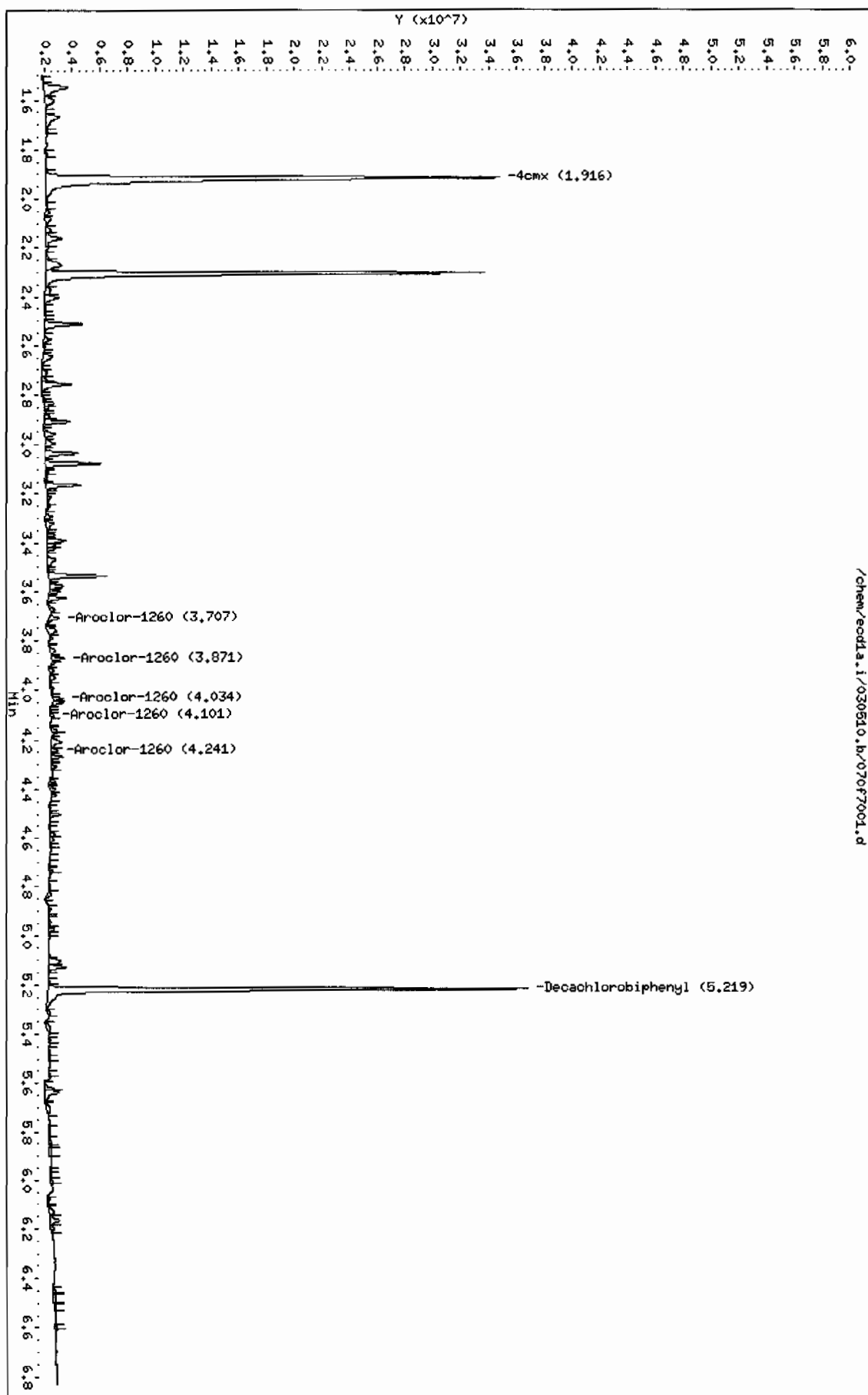
CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
1.916	1.916	0.000	37670485	87.4762	4.4 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.219	5.224	-0.005	28276479	92.0191	4.7 80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030510.b/07077001.d
Date: 05-MAR-2010 19:47
Client ID: RE15-10-7901
Sample Info: 1248029002141
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

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Data File: /chem/ecdl1a.i/030510.b/070b7001.d
Report Date: 08-Mar-2010 07:34

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/070b7001.d

Lab Smp Id: 248029002

Client Smp ID: RE15-10-7901

Inj Date : 05-MAR-2010 19:47

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |248029002|1|

Misc Info : |ECD82P_1S|961047|2|SVA|LANL|SOIL|RE15-10-7901|

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 08-Mar-2010 06:25 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 70

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2071.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	30.18000	Weight of sample extracted (g)
M	34.65830	% Moisture

Cpnd Variable

Local Compound Variable

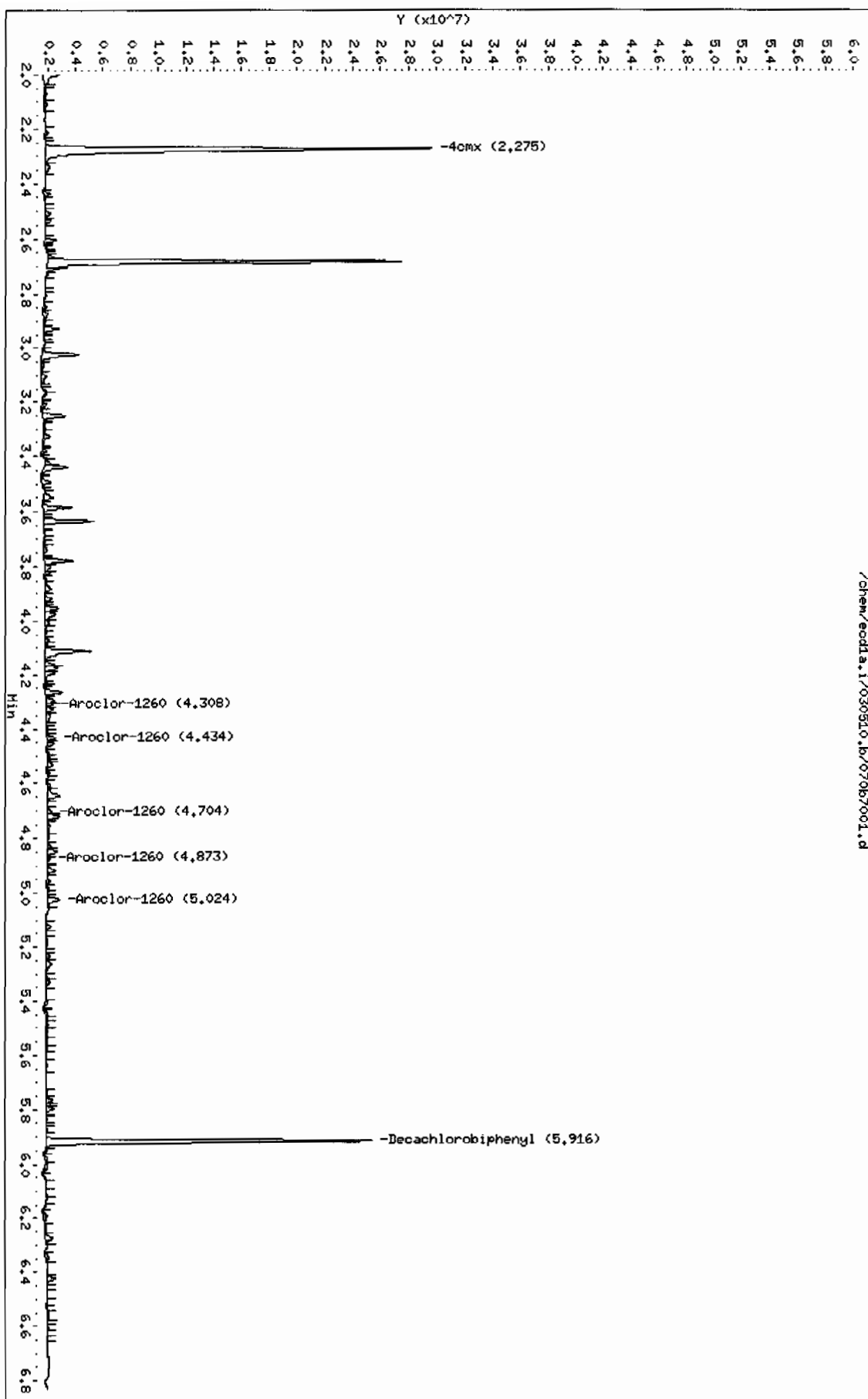
CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
2.275	2.275	0.000	25528609 85.8402	4.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.916	5.919	-0.003	17375219 82.1530	4.2	80.00- 120.00	100.00

Data File: /chem/eod1a.i/030510.b/07067001.d
Date : 05-MAR-2010 19:47
Client ID: REIS-10-7901
Sample Info: 1248029002111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2071
Lab Sample ID: 248029001

Date Collected: 02/19/2010 12:00
Date Received: 02/25/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.12 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 15.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-7902
Batch ID: 961047
Run Date: 03/05/2010 19:34
Prep Date: 03/04/2010 22:58
Data File: 069f6901.d
069b6901.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.93	ug/kg	1.31	3.93	1
11104-28-2	Aroclor-1221	U	3.93	ug/kg	1.31	3.93	1
11141-16-5	Aroclor-1232	U	3.93	ug/kg	1.31	3.93	1
53469-21-9	Aroclor-1242	U	3.93	ug/kg	1.31	3.93	1
12672-29-6	Aroclor-1248	U	3.93	ug/kg	1.31	3.93	1
11097-69-1	Aroclor-1254		8.30	ug/kg	1.31	3.93	1
11096-82-5	Aroclor-1260		5.30	ug/kg	1.31	3.93	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/030510.b/069f6901.d
Lab Smp Id: 248029001 Client Smp ID: RE15-10-7902
Inj Date : 05-MAR-2010 19:34
Operator : YS1 Inst ID: ecdla.i
Smp Info : |248029001|1|
Misc Info : |ECD82P_1S|961047|2|SVA|LANL|SOIL|RE15-10-7902|||
Comment :
Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m
Meth Date : 08-Mar-2010 06:26 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: 10-2071.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	30.12000	Weight of sample extracted (g)
M	15.55270	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
1.917	1.916	0.001	52737092	122.463	4.8	80.00- 120.00 100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.219	5.224	-0.005	40465041	131.684	5.2	80.00- 120.00 100.00

6 Aroclor-1254 CAS #: 11097-69-1						
3.212	3.214	-0.002	2143391	178.507	7.0	80.00- 120.00 100.00 (M)
3.368	3.369	-0.001	2934043	185.322	7.3	116.34- 156.34 136.89
3.600	3.603	-0.003	3830749	196.207	7.7	155.96- 195.96 178.72
3.763	3.765	-0.002	3329294	241.093	9.5	111.84- 151.84 155.33

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO		
-----	-----	-----	-----	-----	-----	-----	-----		
6 Aroclor-1254 (continued)									
3.871	3.874	-0.003	3678739	257.596	10.1	108.21- 148.21	171.63		
Average of Peak Concentrations =					8.3				

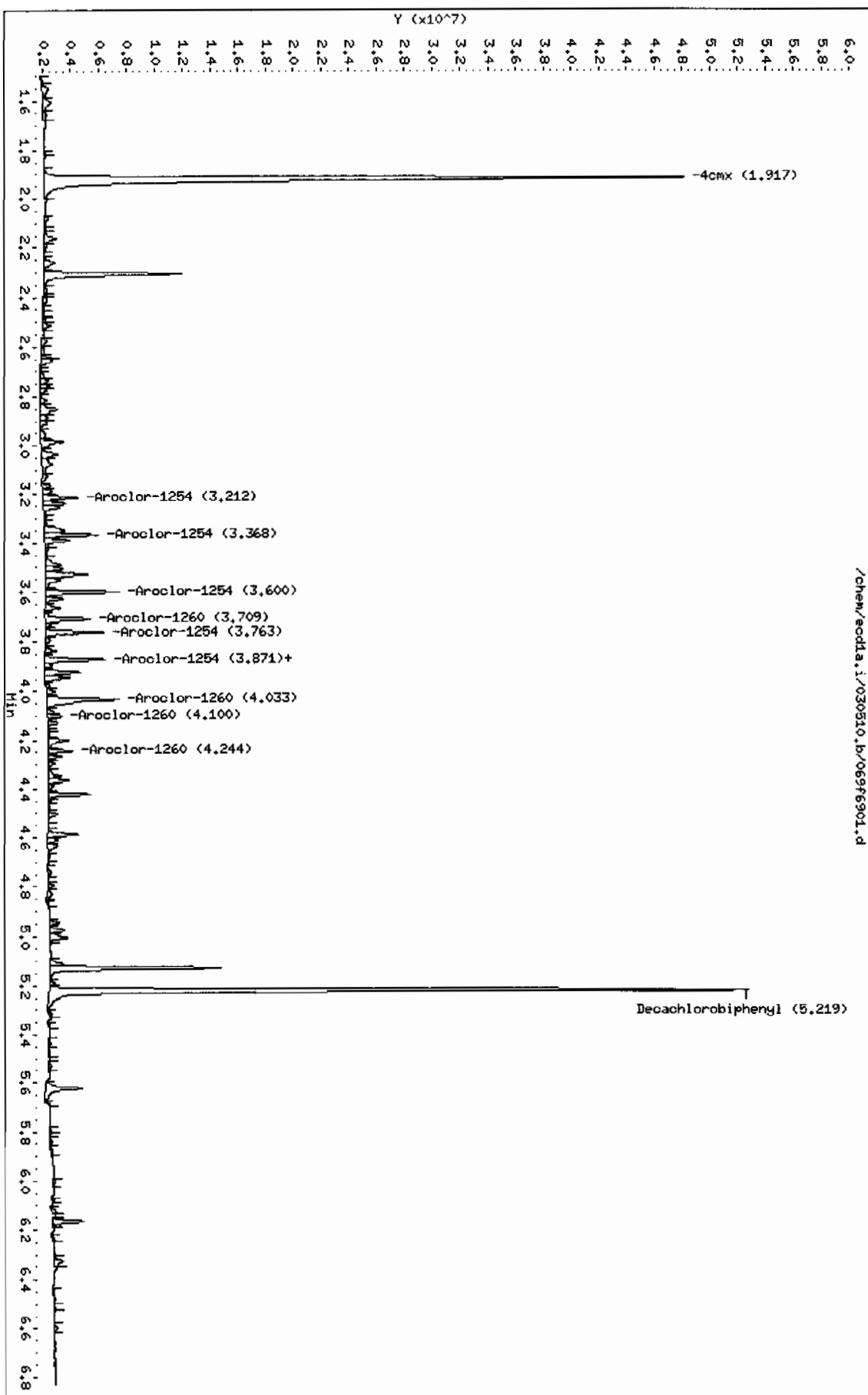
7 Aroclor-1260					CAS #: 11096-82-5				
3.709	3.710	-0.001	2832632	165.919	6.5	80.00- 120.00	100.00 (M)		
3.871	3.874	-0.003	3678739	155.592	6.1	129.18- 169.18	129.87		
4.033	4.035	-0.002	5462583	218.754	8.6	139.68- 179.68	192.84		
4.100	4.104	-0.004	736471	51.1237	2.0	69.68- 109.68	26.00		
4.244	4.246	-0.002	1301951	90.2220	3.5	73.29- 113.29	45.96		
Average of Peak Concentrations =					5.3				

QC Flag Legend

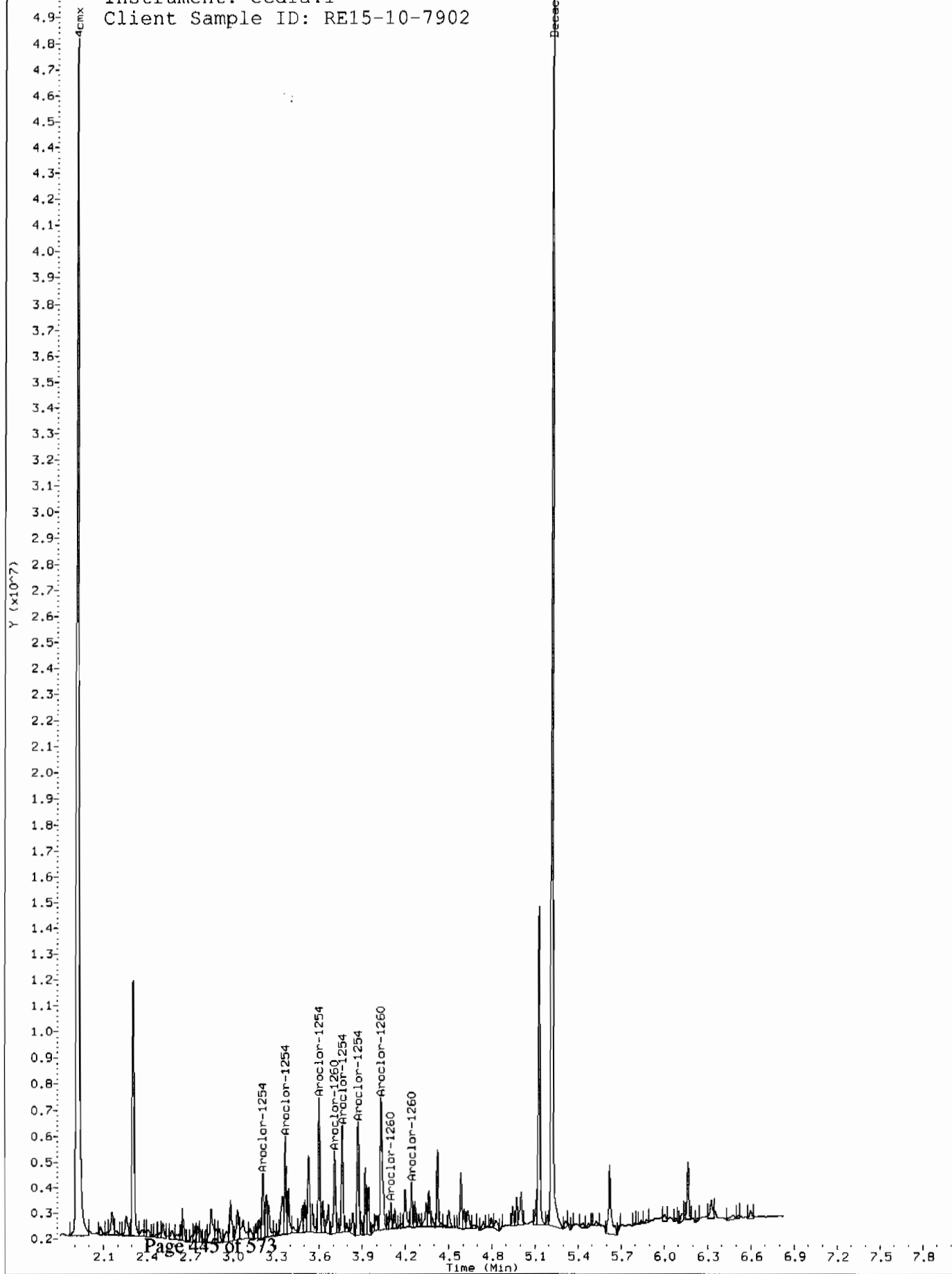
M - Compound response manually integrated.

Data File: /chem/ecdda.i/030510.b/069f6901.d
Date : 05-MAR-2010 19:34
Client ID: RE15-10-7902
Sample Info: 124802900111
Volume Injected (uL): 1.0
Column phase: CLP1

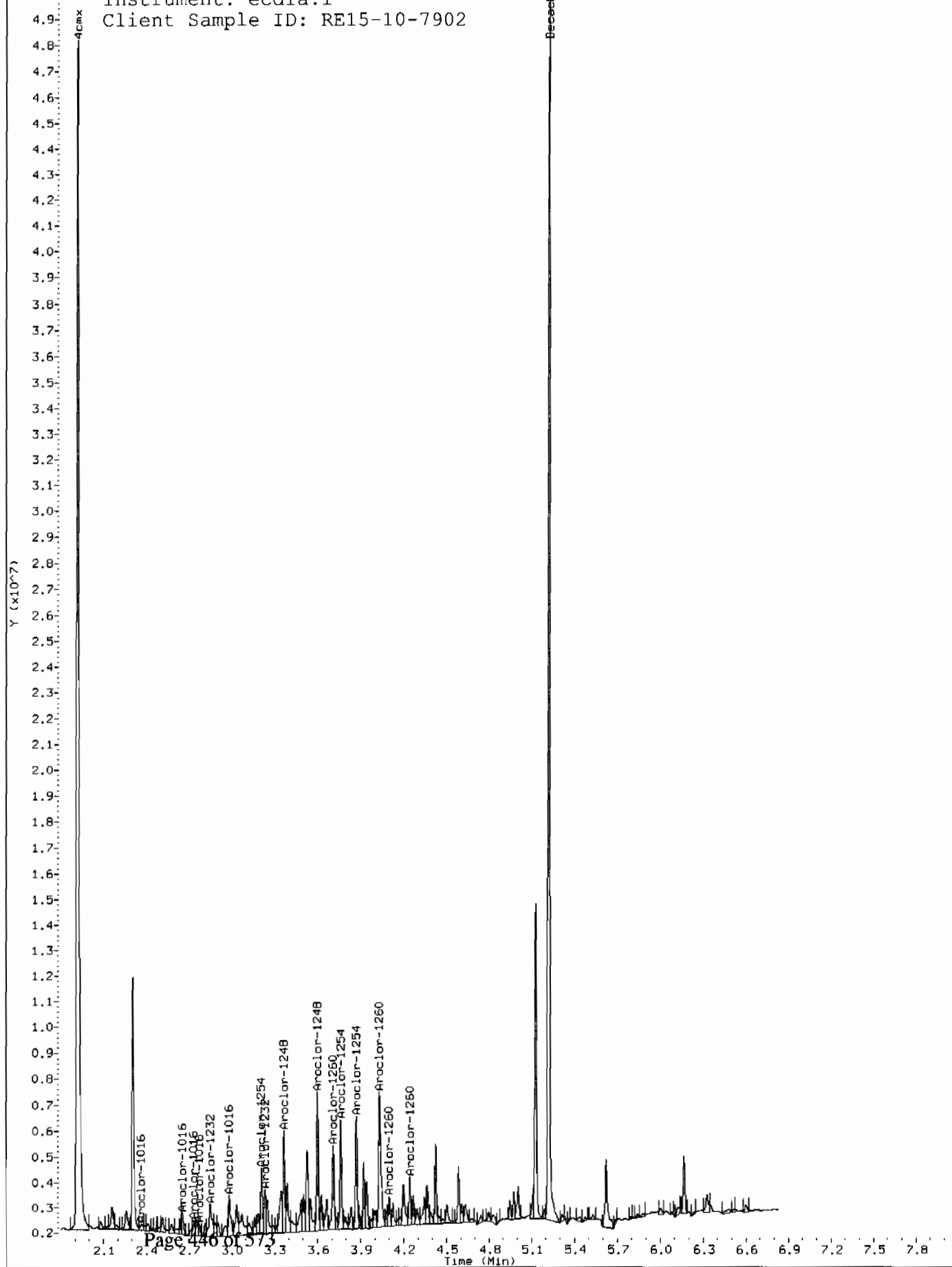
Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030510.b/06916901.d
Operator: YS1
Injection Date: 05-MAR-2010 19:34
Instrument: ecd1a.i
Client Sample ID: RE15-10-7902



Comment: Before manual integration
Data File: /chem/ecdl1a.i/030510.b/original-069f6901.d
Operator: YS1
Injection Date: 05-MAR-2010 19:34
Instrument: ecd1a.i
Client Sample ID: RE15-10-7902



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/069b6901.d

Lab Smp Id: 248029001

Client Smp ID: RE15-10-7902

Inj Date : 05-MAR-2010 19:34

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |248029001|1|

Misc Info : |ECD82P_1S|961047|2|SVA|LANL|SOIL|RE15-10-7902|

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 08-Mar-2010 07:35 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: 10-2071.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	30.12000	Weight of sample extracted (g)
M	15.55270	% 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	2.275	0.001	36247866	121.884	4.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl							
			CAS #: 2051-24-3				
5.915	5.919	-0.004	24715780	116.860	4.6	80.00- 120.00	100.00

6 Aroclor-1254							
			CAS #: 11097-69-1				
3.380	3.379	0.001	697005	114.858	4.5	80.00- 120.00	100.00
3.801	3.802	-0.001	2343285	218.128	8.6	160.84- 200.84	336.19
3.917	3.919	-0.002	2043363	175.497	6.9	180.94- 220.94	293.16
4.192	4.194	-0.002	3044348	191.484	7.5	262.65- 302.65	436.78

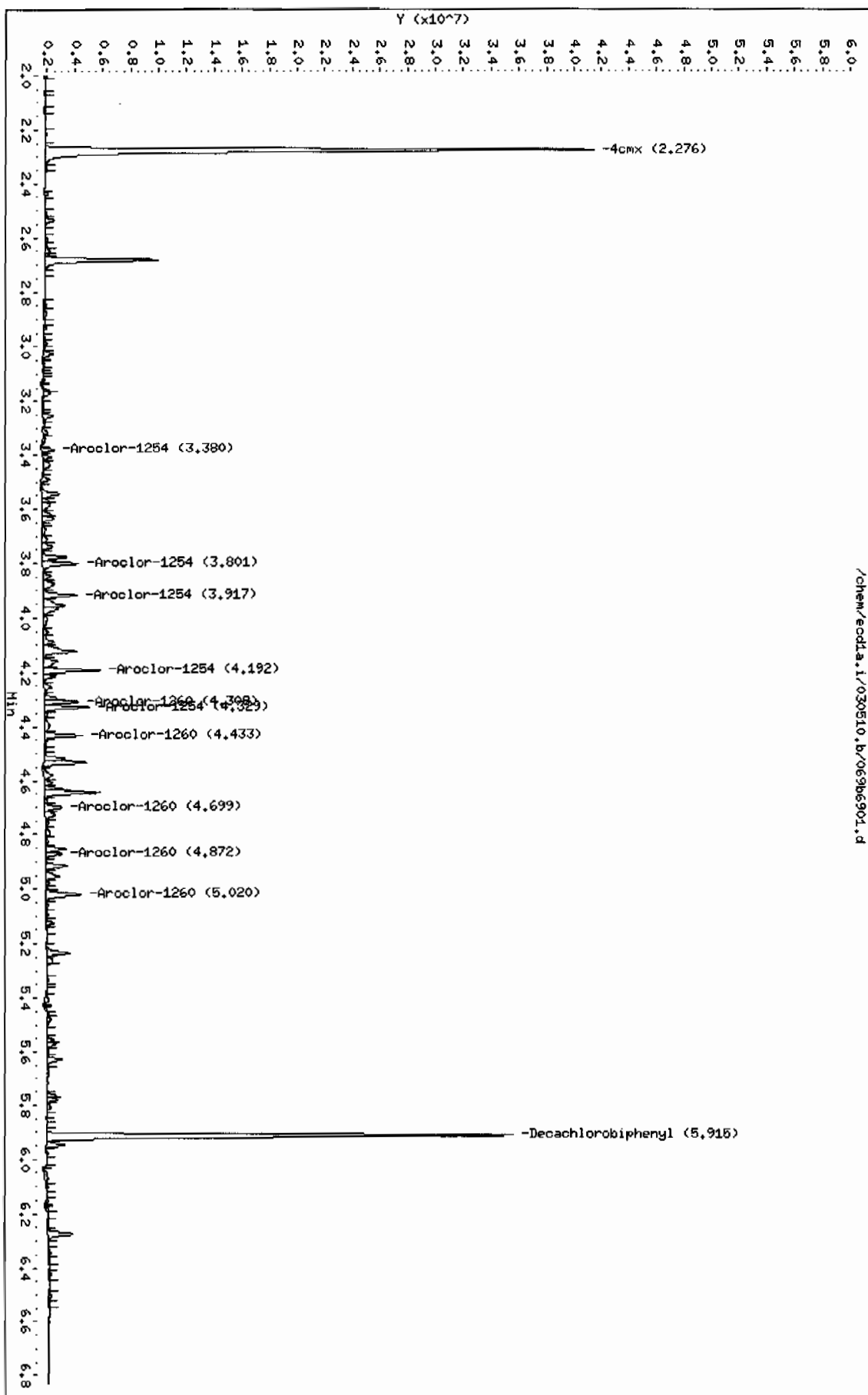
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)						
4.329	4.331	-0.002	2422808	202.318	8.0 187.95- 227.95	347.60
Average of Peak Concentrations =				7.1		

7 Aroclor-1260				CAS #: 11096-82-5		
4.308	4.310	-0.002	2046827	154.996	6.1 80.00- 120.00	100.00
4.433	4.435	-0.002	2123430	136.407	5.4 102.36- 142.36	103.74
4.699	4.701	-0.002	1146762	96.8263	3.8 71.92- 111.92	56.03
4.872	4.874	-0.002	957759	78.4972	3.1 75.63- 115.63	46.79
5.020	5.021	-0.001	2342075	88.2897	3.5 193.66- 233.66	114.42
Average of Peak Concentrations =				4.4		

Data File: /chem/ecdl1.i/030510.b/069b6901.d
Date: 05-MAR-2010 13:34
Client ID: REL5-10-7902
Sample Info: 124802900111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2071

Lab Sample ID: 248029009

Client ID: RE15-10-8067

Batch ID: 961047

Run Date: 03/05/2010 20:00

Prep Date: 03/04/2010 22:58

Data File: 071f7101.d

071b7101.d

Date Collected: 02/19/2010 12:00

Date Received: 02/25/2010 08:45

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

Aliquot: 30.11 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 17.9

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	4.05	ug/kg	1.35	4.05	1
11104-28-2	Aroclor-1221	U	4.05	ug/kg	1.35	4.05	1
11141-16-5	Aroclor-1232	U	4.05	ug/kg	1.35	4.05	1
53469-21-9	Aroclor-1242	U	4.05	ug/kg	1.35	4.05	1
12672-29-6	Aroclor-1248	U	4.05	ug/kg	1.35	4.05	1
11097-69-1	Aroclor-1254	U	4.05	ug/kg	1.35	4.05	1
11096-82-5	Aroclor-1260	U	4.05	ug/kg	1.35	4.05	1

Data File: /chem/ecdla.i/030510.b/071f7101.d
Report Date: 08-Mar-2010 07:35

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/071f7101.d
Lab Smp Id: 248029009 Client Smp ID: RE15-10-8067
Inj Date : 05-MAR-2010 20:00
Operator : YS1 Inst ID: ecdla.i
Smp Info : |248029009|1|
Misc Info : |ECD82P_1S|961047|2|SVA|LANL|SOIL|RE15-10-8067|||
Comment :
Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m
Meth Date : 08-Mar-2010 06:26 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 71
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2071.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	30.11000	Weight of sample extracted (g)
M	17.91710	% Moisture

Cpnd Variable Local Compound Variable

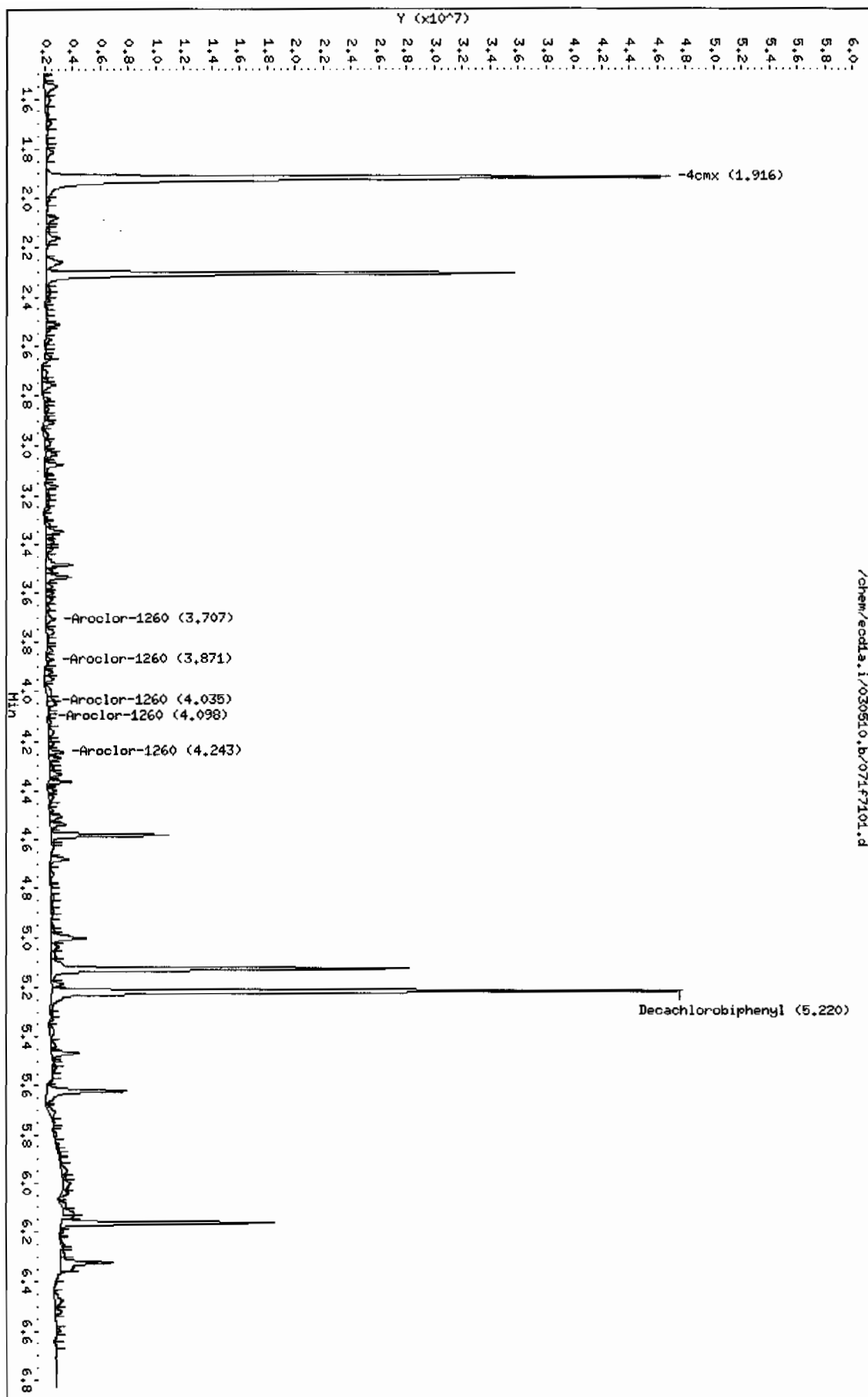
CONCENTRATIONS							
		ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
-----	-----	-----	-----	-----	-----	-----	-----
\$ 11 4cmx CAS #: 877-09-8							
1.916	1.916	0.000	51410237	119.382	4.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.220	5.224	-0.004	37280644	121.321	4.9	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030510.b/071f7101.d
Date : 05-MAR-2010 20:00
Client ID: RE15-10-8067
Sample Info: 1248029009111
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/030510.b/071b7101.d
 Lab Smp Id: 248029009 Client Smp ID: RE15-10-8067
 Inj Date : 05-MAR-2010 20:00
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |248029009|1|
 Misc Info : |ECD82P_1S|961047|2|SVA|LANL|SOIL|RE15-10-8067|||
 Comment :
 Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m
 Meth Date : 08-Mar-2010 06:25 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 71
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2071.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	30.11000	Weight of sample extracted (g)
M	17.91710	% Moisture

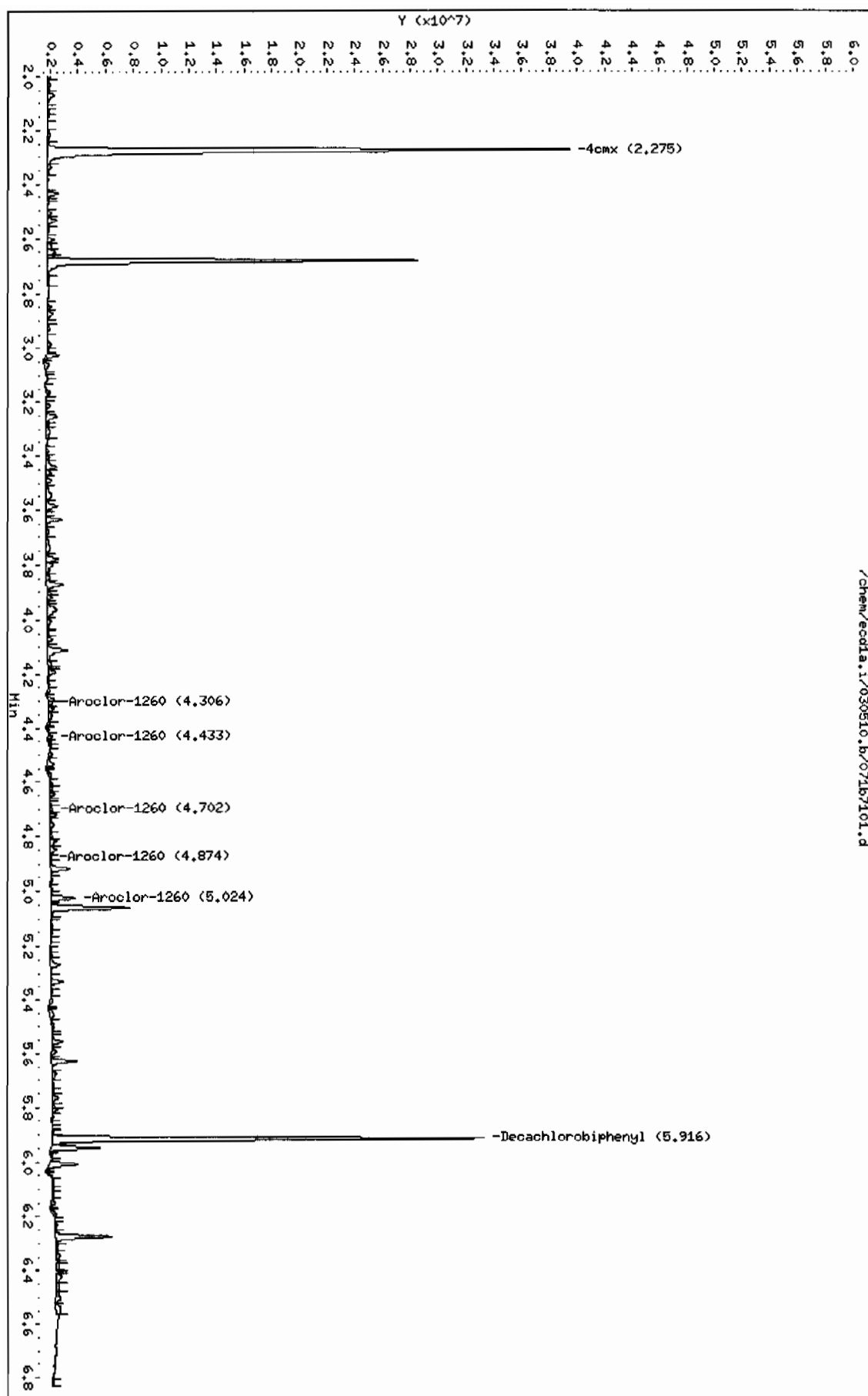
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL RESPONSE (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx				CAS #: 877-09-8		
2.275	2.275	0.000	34637508	116.469	4.7 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.916	5.919	-0.003	23072686	109.092	4.4 80.00- 120.00	100.00

Data File: /chem/ecdl1.i/030510.b/071b7101.d
Date : 05-MAR-2010 20:00
Client ID: RE15-10-8067
Sample Info: 124802900911
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25

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STANDARDS DATA

Report Date: 08-Mar-2010 10:07

Calibration History

Method : /chem/ecdl1a.i/030510.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/ecdl1a.i/022210.b/032f3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdl1a.i/022210.b/026f2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdl1a.i/022210.b/020f2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdl1a.i/022210.b/014f1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdl1a.i/022210.b/008f0801.d
Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdl1a.i/022210.b/033f3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdl1a.i/022210.b/027f2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdl1a.i/022210.b/021f2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdl1a.i/022210.b/015f1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdl1a.i/022210.b/009f0901.d
Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdl1a.i/022210.b/034f3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdl1a.i/022210.b/028f2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdl1a.i/022210.b/022f2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdl1a.i/022210.b/016f1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdl1a.i/022210.b/010f1001.d
Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdl1a.i/022210.b/035f3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdl1a.i/022210.b/030f3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdl1a.i/022210.b/023f2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdl1a.i/022210.b/017f1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdl1a.i/022210.b/011f1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdl1a.i/022210.b/007f0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdl1a.i/022210.b/006f0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdl1a.i/022210.b/005f0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdl1a.i/022210.b/004f0401.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdl1a.i/022210.b/036f3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdl1a.i/022210.b/029f2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdl1a.i/022210.b/024f2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdl1a.i/022210.b/018f1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdl1a.i/022210.b/012f1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 20:12 AR1660	/chem/ecd1a.i/030510.b/072f7201.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 18:44 AR1660	/chem/ecd1a.i/030510.b/065f6501.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 16:50 AR1660	/chem/ecd1a.i/030510.b/056f5601.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 14:36 AR1660	/chem/ecd1a.i/030510.b/045f4501.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 12:47 AR1660	/chem/ecd1a.i/030510.b/036f3601.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 10:20 AR1660	/chem/ecd1a.i/030510.b/024f2401.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 08:18 AR1660	/chem/ecd1a.i/030510.b/014f1401.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 07:21 AR1262	/chem/ecd1a.i/030510.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 07:11 AR1221	/chem/ecd1a.i/030510.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 07:00 AR1232	/chem/ecd1a.i/030510.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 06:50 AR1268	/chem/ecd1a.i/030510.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 06:39 AR1248	/chem/ecd1a.i/030510.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 06:29 AR1242	/chem/ecd1a.i/030510.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 06:18 AR1254	/chem/ecd1a.i/030510.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000	
05-MAR-2010 06:08 AR1660	/chem/ecd1a.i/030510.b/002f0201.d

Report Date: 08-Mar-2010 10:06

Calibration History

Method : /chem/ecdl1a.i/030510.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		
05-MAR-2010 20:12	AR1660	/chem/ecdl1a.i/030510.b/072b7201.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 18:44	AR1660	/chem/ecdl1a.i/030510.b/065b6501.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 16:50	AR1660	/chem/ecdl1a.i/030510.b/056b5601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 14:36	AR1660	/chem/ecdl1a.i/030510.b/045b4501.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 12:47	AR1660	/chem/ecdl1a.i/030510.b/036b3601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 10:20	AR1660	/chem/ecdl1a.i/030510.b/024b2401.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 08:18	AR1660	/chem/ecdl1a.i/030510.b/014b1401.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 06:08	AR1660	/chem/ecdl1a.i/030510.b/002b0201.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 07:21	AR1262	/chem/ecdl1a.i/030510.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 07:11	AR1221	/chem/ecdl1a.i/030510.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 07:00	AR1232	/chem/ecdl1a.i/030510.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 06:50	AR1268	/chem/ecdl1a.i/030510.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 06:39	AR1248	/chem/ecdl1a.i/030510.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 06:29	AR1242	/chem/ecdl1a.i/030510.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
05-MAR-2010 06:18	AR1254	/chem/ecdl1a.i/030510.b/003b0301.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 08-Mar-2010 06:26 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	2.369	2.339-2.399	1.538e+04
	2.656	2.626-2.686	1.824e+04
	2.737	2.707-2.767	1.207e+04
	2.774	2.744-2.804	7.096e+03
	2.984	2.954-3.014	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	2.030	2.000-2.060	4.398e+03
	2.122	2.092-2.152	2.431e+03
	2.148	2.118-2.178	1.042e+04
3 Aroclor-1232	2.370	2.340-2.400	6.218e+03
	2.657	2.627-2.687	7.488e+03
	2.738	2.708-2.768	4.887e+03
	2.852	2.822-2.882	2.191e+03
4 Aroclor-1242	3.239	3.209-3.269	2.731e+03
	2.370	2.340-2.400	1.256e+04
	2.657	2.627-2.687	1.461e+04
	2.775	2.745-2.805	5.629e+03
	2.986	2.956-3.016	7.310e+03
	3.239	3.209-3.269	6.183e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/030510.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
	3.239	3.209-3.269	1.220e+04
	3.372	3.342-3.402	1.042e+04
	3.603	3.573-3.633	6.820e+03
6 Aroclor-1254	3.214	3.184-3.244	1.201e+04
	3.369	3.339-3.399	1.583e+04
	3.603	3.573-3.633	1.952e+04
	3.765	3.735-3.795	1.381e+04
	3.874	3.844-3.904	1.428e+04
7 Aroclor-1260	3.710	3.680-3.740	1.707e+04
	3.874	3.844-3.904	2.364e+04
	4.035	4.005-4.065	2.497e+04
	4.104	4.074-4.134	1.441e+04
	4.246	4.216-4.276	1.443e+04
8 Aroclor-1262	3.711	3.681-3.741	1.261e+04
	3.874	3.844-3.904	1.569e+04
	4.104	4.074-4.134	1.995e+04
	4.246	4.216-4.276	1.798e+04
	4.425	4.395-4.455	3.725e+04
9 Aroclor-1268	4.612	4.582-4.642	4.848e+04
	4.634	4.604-4.664	5.448e+04
	4.747	4.717-4.777	3.862e+04
	4.949	4.919-4.979	1.635e+04
	5.115	5.085-5.145	1.121e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.916	1.886-1.946	4.306e+05
\$ 12 Decachlorobiphenyl	5.224	5.194-5.254	3.073e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m
Quant Method : ESTD Target Version : 3.50
Last Update : 08-Mar-2010 07:35 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	3.170	3.140-3.200	1.279e+04
	3.254	3.224-3.284	8.918e+03
	3.317	3.287-3.347	5.406e+03
	3.544	3.514-3.574	6.916e+03
	3.619	3.589-3.649	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	2.473	2.443-2.503	3.431e+03
	2.567	2.537-2.597	2.152e+03
	2.608	2.578-2.638	7.328e+03
3 Aroclor-1232	2.875	2.845-2.905	4.920e+03
	3.172	3.142-3.202	5.252e+03
	3.255	3.225-3.285	3.768e+03
	3.545	3.515-3.575	2.699e+03
4 Aroclor-1242	3.780	3.750-3.810	2.631e+03
	3.171	3.141-3.201	1.035e+04
	3.254	3.224-3.284	7.279e+03
	3.545	3.515-3.575	5.768e+03
	3.778	3.748-3.808	5.788e+03
	3.806	3.776-3.836	6.641e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.381	3.351-3.411	7.602e+03
	3.545	3.515-3.575	9.360e+03
	3.779	3.749-3.809	1.065e+04
	3.807	3.777-3.837	1.210e+04
	3.943	3.913-3.973	1.150e+04
6 Aroclor-1254	3.379	3.349-3.409	6.068e+03
	3.802	3.772-3.832	1.074e+04
	3.919	3.889-3.949	1.164e+04
	4.194	4.164-4.224	1.590e+04
	4.331	4.301-4.361	1.198e+04
7 Aroclor-1260	4.310	4.280-4.340	1.321e+04
	4.435	4.405-4.465	1.557e+04
	4.701	4.671-4.731	1.184e+04
	4.874	4.844-4.904	1.220e+04
	5.021	4.991-5.051	2.653e+04
8 Aroclor-1262	4.435	4.405-4.465	1.126e+04
	4.701	4.671-4.731	1.550e+04
	4.875	4.845-4.905	1.407e+04
	5.021	4.991-5.051	2.845e+04
	5.235	5.205-5.265	1.972e+04
9 Aroclor-1268	5.233	5.203-5.263	3.730e+04
	5.261	5.231-5.291	3.492e+04
	5.411	5.381-5.441	2.658e+04
	5.575	5.545-5.605	1.223e+04
	5.768	5.738-5.798	7.433e+04
10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.275	2.245-2.305	2.974e+05
\$ 12 Decachlorobiphenyl	5.919	5.889-5.949	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/030510.b/ECD1-F-8082-022210.m
 Cal Date : 08-Mar-2010 06:26 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/030510.b/ECD1-F-8082-022210.m
 Cal Date : 08-Mar-2010 06:26 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/030510.b/ECD1-B-8082-022210.m
 Cal Date : 08-Mar-2010 07:35 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/ecdl1a.i/030510.b/ECD1-B-8082-022210.m
 Cal Date : 08-Mar-2010 07:35 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
6 Aroclor-1254(1)	7593	6474	5915	5463	4897	6068	16.986
(2)	13079	11278	10543	9826	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 0608
 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	13277.938	0.01	-13.7	15.0
(2)	18237.012	16644.819	0.01	-8.7	15.0
(3)	12065.482	10779.023	0.01	-10.7	15.0
(4)	7096.105	6499.751	0.01	-8.4	15.0
(5)	8912.192	8267.149	0.01	-7.2	15.0
Aroclor-1260	17072.421	17293.828	0.01	1.3	15.0
(2)	23643.449	26021.163	0.01	10.0	15.0
(3)	24971.335	27835.034	0.01	11.5	15.0
(4)	14405.675	15656.753	0.01	8.7	15.0
(5)	14430.527	16282.326	0.01	12.8	15.0
4cmx	430636.91	381955.60	0.01	-11.3	15.0
Decachlorobiphenyl	307289.35	286908.28	0.01	-6.6	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 0608
 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	11492.255	0.01	-10.1	15.0
(2)	8917.926	7758.548	0.01	-13.0	15.0
(3)	5406.011	4850.708	0.01	-10.3	15.0
(4)	6915.638	6085.778	0.01	-12.0	15.0
(5)	6425.213	5746.103	0.01	-10.6	15.0
Aroclor-1260	13205.642	12664.390	0.01	-4.1	15.0
(2)	15566.814	15516.900	0.01	-0.3	15.0
(3)	11843.501	11638.212	0.01	-1.7	15.0
(4)	12201.193	12091.069	0.01	-0.9	15.0
(5)	26527.172	27088.322	0.01	2.1	15.0
4cmx	297396.93	264050.06	0.01	-11.2	15.0
Decachlorobiphenyl	211498.34	183995.57	0.01	-13.0	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 0618
 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	11384.502	0.01	-5.2	15.0
(2)	15832.152	15521.505	0.01	-2.0	15.0
(3)	19523.991	20032.018	0.01	2.6	15.0
(4)	13809.178	15009.849	0.01	8.7	15.0
(5)	14281.016	14595.991	0.01	2.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 0618
 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	5274.455	0.01	-13.1	15.0
(2)	10742.712	9538.416	0.01	-11.2	15.0
(3)	11643.270	10598.748	0.01	-9.0	15.0
(4)	15898.678	14908.333	0.01	-6.2	15.0
(5)	11975.232	10967.971	0.01	-8.4	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 1436
 Lab File ID: 045F4501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13398.974	0.01	-12.9	15.0
(2)	18237.012	17620.837	0.01	-3.4	15.0
(3)	12065.482	11121.188	0.01	-7.8	15.0
(4)	7096.105	6695.252	0.01	-5.6	15.0
(5)	8912.192	8461.867	0.01	-5.0	15.0
Aroclor-1260	17072.421	16352.200	0.01	-4.2	15.0
(2)	23643.449	24371.590	0.01	3.1	15.0
(3)	24971.335	26177.647	0.01	4.8	15.0
(4)	14405.675	14701.582	0.01	2.0	15.0
(5)	14430.527	15271.547	0.01	5.8	15.0
4cmx	430636.91	393233.89	0.01	-8.7	15.0
Decachlorobiphenyl	307289.35	295525.61	0.01	-3.8	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 1436
 Lab File ID: 045B4501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12242.980	0.01	-4.3	15.0
(2)	8917.926	7849.999	0.01	-12.0	15.0
(3)	5406.011	4891.813	0.01	-9.5	15.0
(4)	6915.638	6153.875	0.01	-11.0	15.0
(5)	6425.213	5810.980	0.01	-9.6	15.0
Aroclor-1260	13205.642	11791.151	0.01	-10.7	15.0
(2)	15566.814	14439.350	0.01	-7.2	15.0
(3)	11843.501	10833.543	0.01	-8.5	15.0
(4)	12201.193	11232.638	0.01	-7.9	15.0
(5)	26527.172	25172.698	0.01	-5.1	15.0
4cmx	297396.93	267757.12	0.01	-10.0	15.0
Decachlorobiphenyl	211498.34	187498.90	0.01	-11.3	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 1650
 Lab File ID: 056F5601 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	13631.795	0.01	-11.4	15.0
(2)	18237.012	17441.264	0.01	-4.4	15.0
(3)	12065.482	11295.110	0.01	-6.4	15.0
(4)	7096.105	6853.082	0.01	-3.4	15.0
(5)	8912.192	8658.444	0.01	-2.8	15.0
Aroclor-1260	17072.421	16712.594	0.01	-2.1	15.0
(2)	23643.449	24796.101	0.01	4.9	15.0
(3)	24971.335	26390.716	0.01	5.7	15.0
(4)	14405.675	14810.831	0.01	2.8	15.0
(5)	14430.527	15269.913	0.01	5.8	15.0
4cmx	430636.91	400287.88	0.01	-7.0	15.0
Decachlorobiphenyl	307289.35	275274.17	0.01	-10.4	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 1650
 Lab File ID: 056B5601 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	12172.140	0.01	-4.8	15.0
(2)	8917.926	8005.885	0.01	-10.2	15.0
(3)	5406.011	5019.143	0.01	-7.2	15.0
(4)	6915.638	6485.253	0.01	-6.2	15.0
(5)	6425.213	6004.791	0.01	-6.5	15.0
Aroclor-1260	13205.642	11868.591	0.01	-10.1	15.0
(2)	15566.814	14507.938	0.01	-6.8	15.0
(3)	11843.501	10834.764	0.01	-8.5	15.0
(4)	12201.193	11178.001	0.01	-8.4	15.0
(5)	26527.172	24955.577	0.01	-5.9	15.0
4cmx	297396.93	274105.76	0.01	-7.8	15.0
Decachlorobiphenyl	211498.34	183060.75	0.01	-13.4	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 1844
 Lab File ID: 065F6501 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	13290.277	0.01	-13.6	15.0
(2)	18237.012	17046.696	0.01	-6.5	15.0
(3)	12065.482	10949.865	0.01	-9.2	15.0
(4)	7096.105	6634.331	0.01	-6.5	15.0
(5)	8912.192	8495.351	0.01	-4.7	15.0
Aroclor-1260	17072.421	16681.534	0.01	-2.3	15.0
(2)	23643.449	24630.213	0.01	4.2	15.0
(3)	24971.335	26286.684	0.01	5.3	15.0
(4)	14405.675	14850.943	0.01	3.1	15.0
(5)	14430.527	15409.135	0.01	6.8	15.0
4cmx	430636.91	387062.35	0.01	-10.1	15.0
Decachlorobiphenyl	307289.35	289929.36	0.01	-5.6	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 1844
 Lab File ID: 065B6501 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	11779.655	0.01	-7.9	15.0
(2)	8917.926	7801.285	0.01	-12.5	15.0
(3)	5406.011	4885.617	0.01	-9.6	15.0
(4)	6915.638	6345.302	0.01	-8.2	15.0
(5)	6425.213	5859.070	0.01	-8.8	15.0
Aroclor-1260	13205.642	11829.528	0.01	-10.4	15.0
(2)	15566.814	14463.261	0.01	-7.1	15.0
(3)	11843.501	10870.680	0.01	-8.2	15.0
(4)	12201.193	11264.681	0.01	-7.7	15.0
(5)	26527.172	25089.329	0.01	-5.4	15.0
4cmx	297396.93	264938.33	0.01	-10.9	15.0
Decachlorobiphenyl	211498.34	183547.71	0.01	-13.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 2012
 Lab File ID: 072F7201 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	13520.709	0.01	-12.1	15.0
(2)	18237.012	17964.736	0.01	-1.5	15.0
(3)	12065.482	11185.124	0.01	-7.3	15.0
(4)	7096.105	6754.394	0.01	-4.8	15.0
(5)	8912.192	8627.817	0.01	-3.2	15.0
Aroclor-1260	17072.421	16465.774	0.01	-3.6	15.0
(2)	23643.449	24563.152	0.01	3.9	15.0
(3)	24971.335	26293.110	0.01	5.3	15.0
(4)	14405.675	14766.574	0.01	2.5	15.0
(5)	14430.527	15361.282	0.01	6.4	15.0
4cmx	430636.91	396363.86	0.01	-8.0	15.0
Decachlorobiphenyl	307289.35	294180.55	0.01	-4.3	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.: 10-2071
 Instrument ID: ECD1A Calibration Date: 03/05/10 Time: 2012
 Lab File ID: 072B7201 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	11815.731	0.01	-7.6	15.0
(2)	8917.926	7918.679	0.01	-11.2	15.0
(3)	5406.011	4940.692	0.01	-8.6	15.0
(4)	6915.638	6419.395	0.01	-7.2	15.0
(5)	6425.213	6011.693	0.01	-6.4	15.0
Aroclor-1260	13205.642	11925.346	0.01	-9.7	15.0
(2)	15566.814	14592.098	0.01	-6.3	15.0
(3)	11843.501	10962.045	0.01	-7.4	15.0
(4)	12201.193	11404.795	0.01	-6.5	15.0
(5)	26527.172	25479.995	0.01	-3.9	15.0
4cmx	297396.93	270952.63	0.01	-8.9	15.0
Decachlorobiphenyl	211498.34	185909.42	0.01	-12.1	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/002f0201.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 05-MAR-2010 06:08

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 05-Mar-2010 14:50 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx					CAS #: 877-09-8			
1.916	1.916	0.000	38195560	100.000	88.7	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.224	5.224	0.000	28690828	100.000	93.4	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.369	2.369	0.000	13277938	1000.00	863	80.00- 120.00	100.00	
2.656	2.656	0.000	16644819	1000.00	913	111.51- 151.51	125.36	
2.737	2.737	0.000	10779023	1000.00	893	63.00- 103.00	81.18	
2.774	2.774	0.000	6499751	1000.00	916	29.97- 69.97	48.95	
2.984	2.984	0.000	8267149	1000.00	928	43.15- 83.15	62.26	
Average of Peak Amounts =					903			

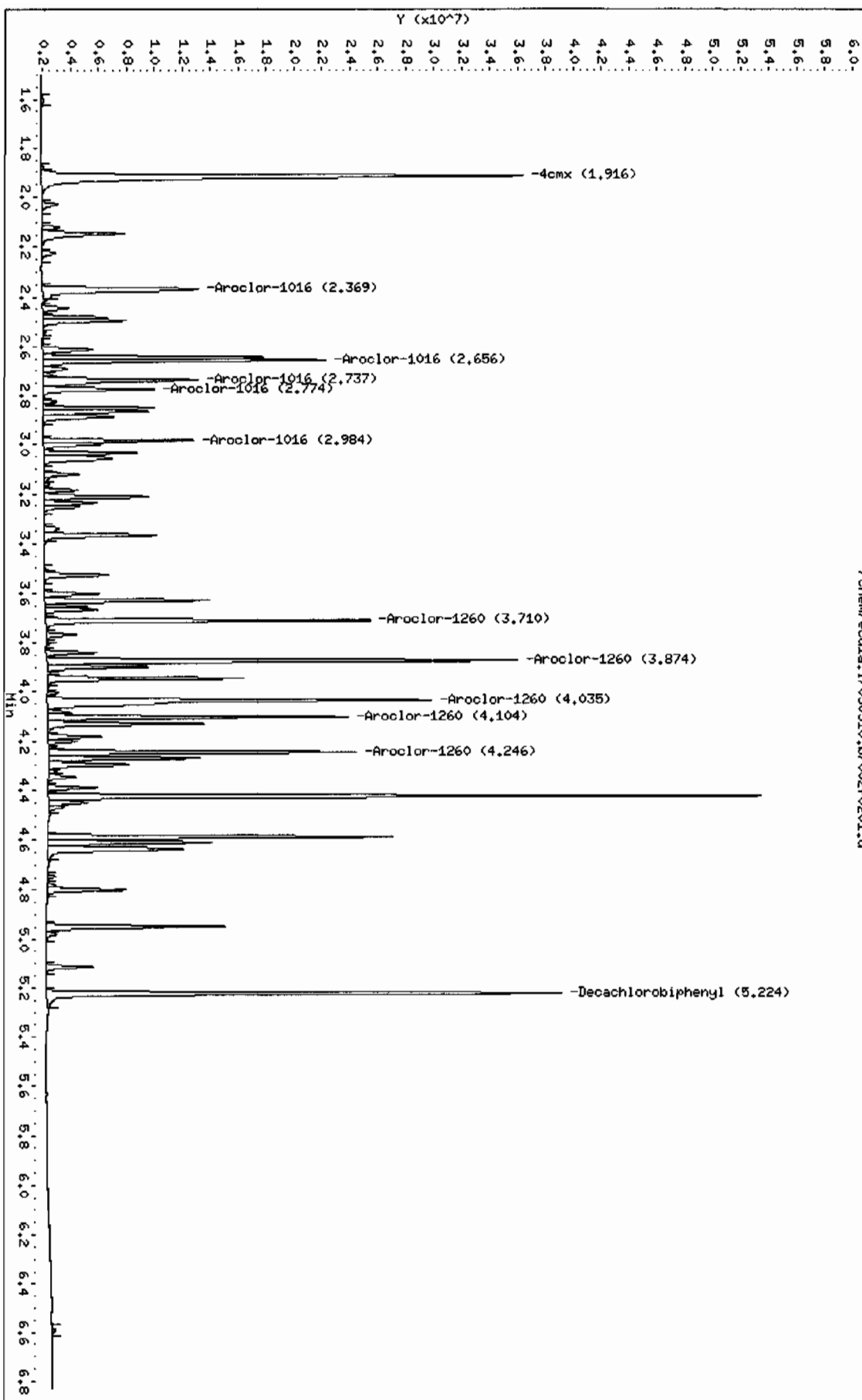
7 Aroclor-1260					CAS #: 11096-82-5			
3.710	3.710	0.000	17293828	1000.00	1010	80.00- 120.00	100.00	
3.874	3.874	0.000	26021163	1000.00	1100	129.04- 169.04	150.47	
4.035	4.035	0.000	27835034	1000.00	1110	140.09- 180.09	160.95	
4.104	4.104	0.000	15656753	1000.00	1090	69.91- 109.91	90.53	
4.246	4.246	0.000	16282326	1000.00	1130	73.39- 113.39	94.15	
Average of Peak Amounts =					1.09e+03			

Data File: /chem/ecdt.a.i/030510.b/002f0201.d
Date: 05-MAR-2010 06:08
Client ID: AR16001
Sample Info: IMPR100222-60 01

Column phase: CLP1

Instrument: ecdt.a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdt.a.i/030510.b/002f0201.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/002b0201.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 05-MAR-2010 06:08

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT		ON-COL		TARGET RANGE	RATIO
			RESPONSE	(ug/L)	(ug/L)			
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx						CAS #: 877-09-8		
2.275	2.275	0.000	26405006	100.000	88.8	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
5.919	5.919	0.000	18399557	100.000	87.0	80.00- 120.00	100.00	

1 Aroclor-1016						CAS #: 12674-11-2		
3.170	3.170	0.000	11492255	1000.00	898	80.00- 120.00	100.00 (M)	
3.254	3.254	0.000	7758548	1000.00	870	44.12- 84.12	67.51	
3.317	3.317	0.000	4850708	1000.00	897	19.96- 59.96	42.21	
3.544	3.544	0.000	6085778	1000.00	880	30.26- 70.26	52.96	
3.619	3.619	0.000	5746103	1000.00	894	36.69- 76.69	50.00	
Average of Peak Amounts =					888			

7 Aroclor-1260						CAS #: 11096-82-5		
4.310	4.310	0.000	12664390	1000.00	959	80.00- 120.00	100.00	
4.435	4.435	0.000	15516900	1000.00	997	102.46- 142.46	122.52	
4.701	4.701	0.000	11638212	1000.00	983	71.88- 111.88	91.90	
4.874	4.874	0.000	12091069	1000.00	991	75.26- 115.26	95.47	
5.021	5.021	0.000	27088322	1000.00	1020	193.49- 233.49	213.89	
Average of Peak Amounts =					990			

QC Flag Legend

M - Compound response manually integrated.

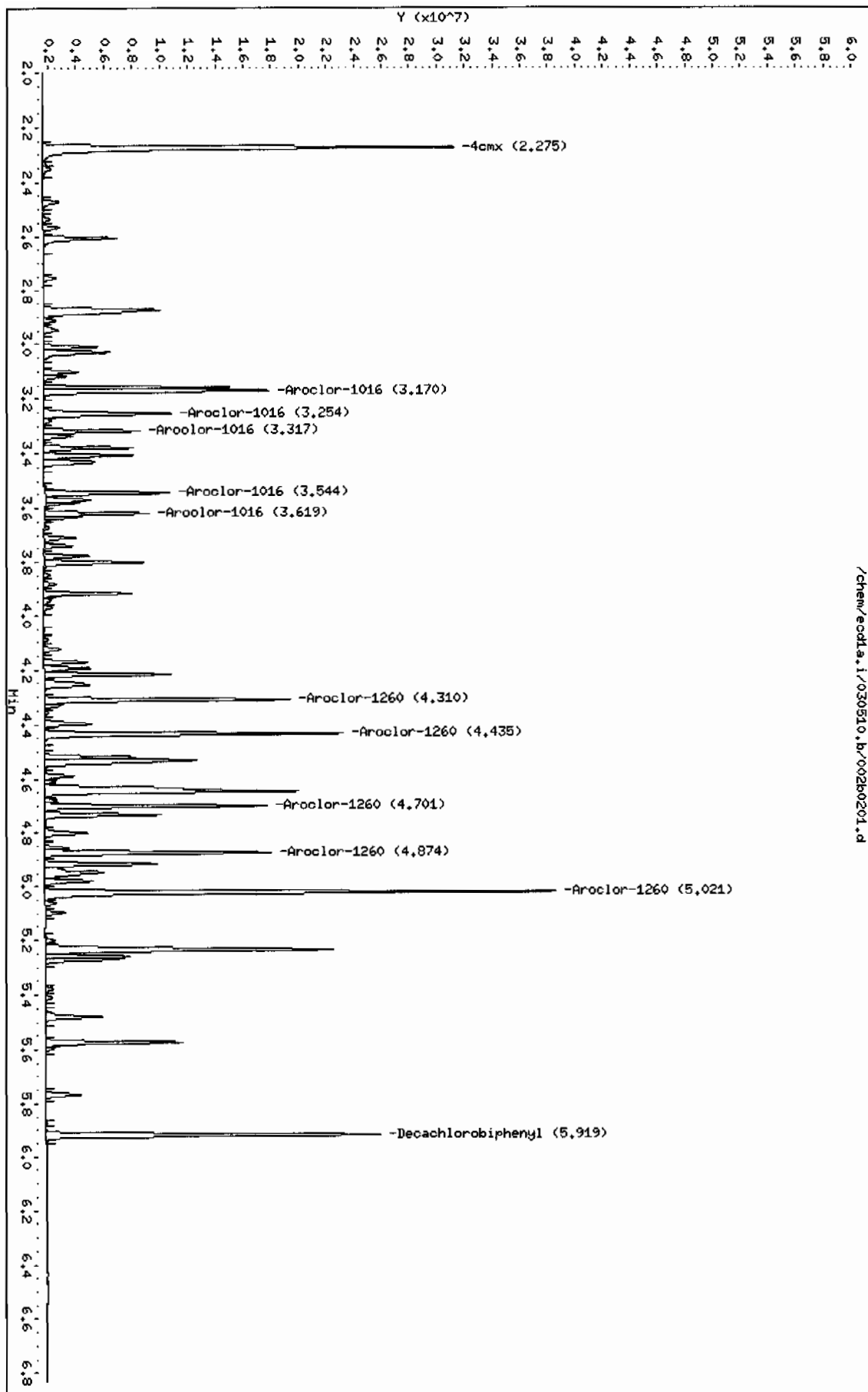
Data File: /chem/ecdl1.i/030510.b/002b0201.d
Date: 05-MAR-2010 06:08
Client ID: AR166001
Sample Info: |MAR100222-60 01

Instrument: ecdl1.i

Page 1

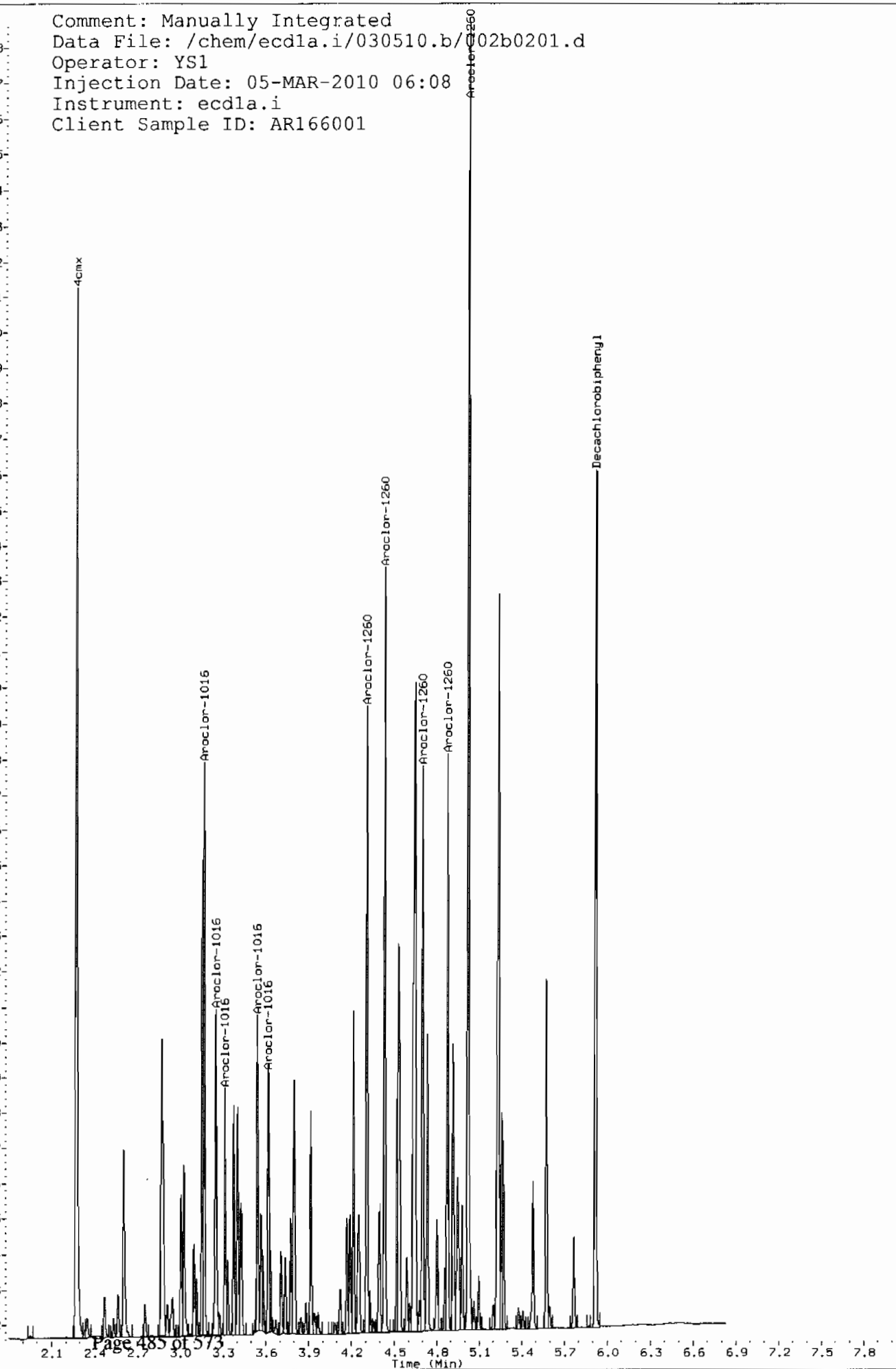
Column phase: CLP2

Operator: YSL
Column diameter: 0.25



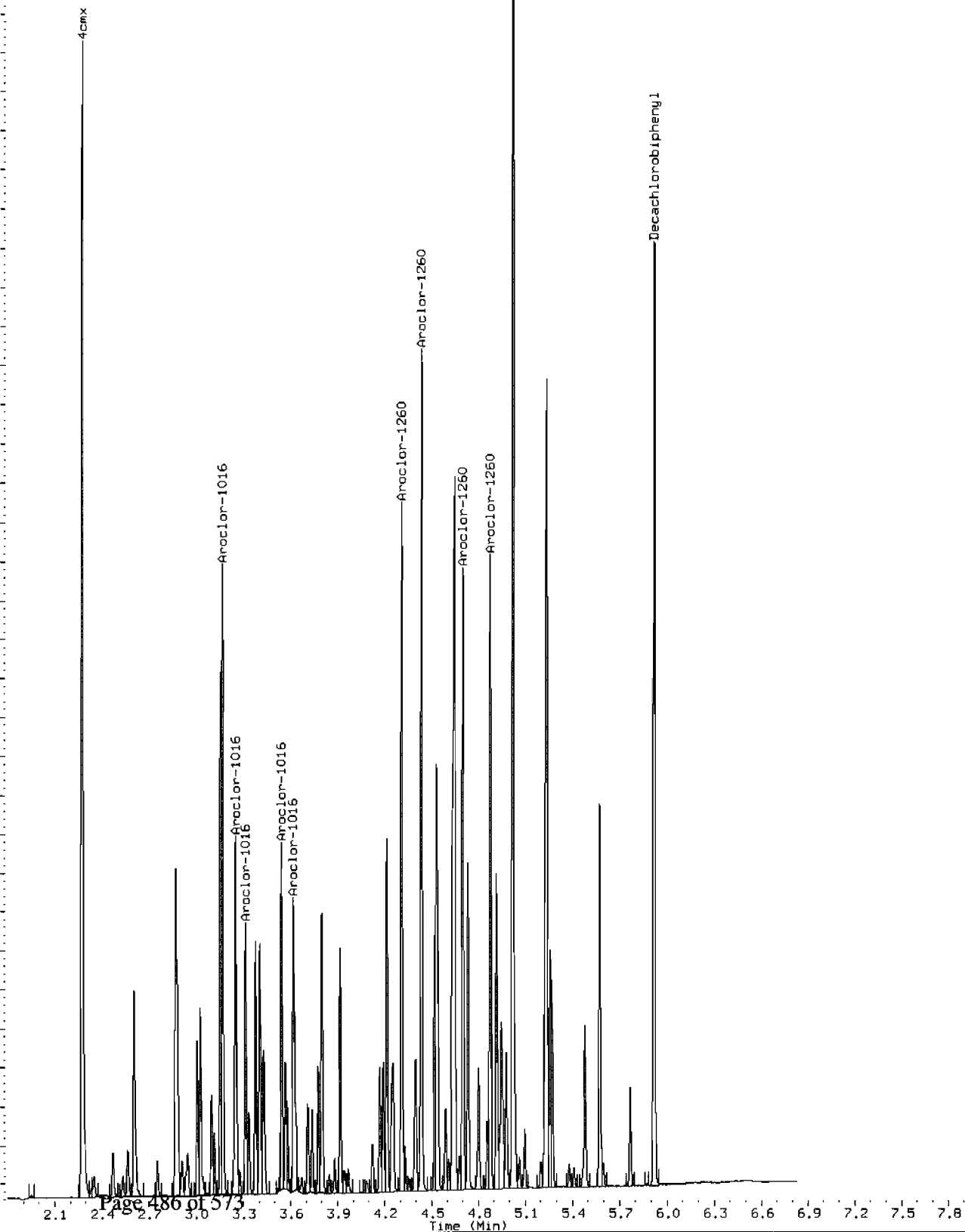
Comment: Manually Integrated
Data File: /chem/ecdl1.i/030510.b/02b0201.d
Operator: YS1
Injection Date: 05-MAR-2010 06:08
Instrument: ecdl1.i
Client Sample ID: AR166001

Y (x10⁻⁷)



Comment: Before manual integration
Data File: /chem/ecdl1a.i/030510.b/Orig-002b0201.d
Operator: YS1
Injection Date: 05-MAR-2010 06:08
Instrument: ecd1a.i
Client Sample ID: AR166001

Y (x10⁻⁷)



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/003f0301.d

Lab Smp Id: WAR100219-54 Client Smp ID: AR125401

Inj Date : 05-MAR-2010 06:18

Operator : YS1 Inst ID: ecdla.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

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

3.214	3.214	0.000	11384502	1000.00	948 80.00- 120.00	100.00
3.369	3.369	0.000	15521505	1000.00	980 116.34- 156.34	136.34
3.603	3.603	0.000	20032018	1000.00	1030 155.96- 195.96	175.96
3.765	3.765	0.000	15009849	1000.00	1090 111.84- 151.84	131.84
3.874	3.874	0.000	14595991	1000.00	1020 108.21- 148.21	128.21

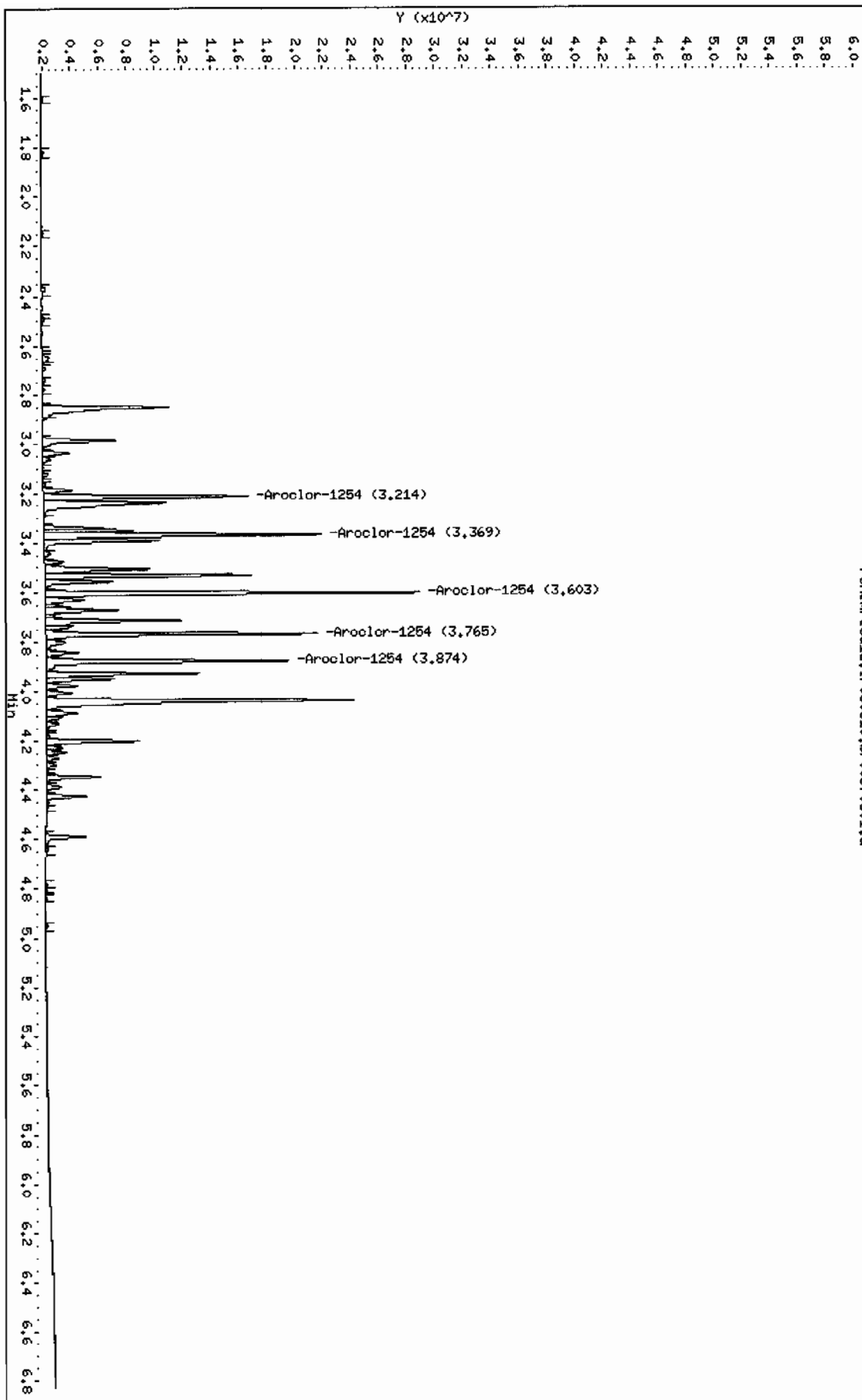
Average of Peak Amounts = 1.01e+03

Data File: /chem/ecdl1.i/030510.b/003f0301.d
Date : 05-MAR-2010 06:18
Client ID: 6R125401
Sample Info: 1MAR100219-54

Column phase: CLP1

Instrument: ecdl1.i
Operator: YS1
Column diameter: 0.25

/chem/ecdl1.i/030510.b/003f0301.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/003b0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 05-MAR-2010 06:18

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 05-Mar-2010 09:16 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

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

3.379	3.379	0.000	5274455	1000.00	869 80.00- 120.00	100.00
3.802	3.802	0.000	9538416	1000.00	888 160.84- 200.84	180.84
3.919	3.919	0.000	10598748	1000.00	910 180.94- 220.94	200.94
4.194	4.194	0.000	14908333	1000.00	938 262.65- 302.65	282.65
4.331	4.331	0.000	10967971	1000.00	916 187.95- 227.95	207.95

Average of Peak Amounts = 904

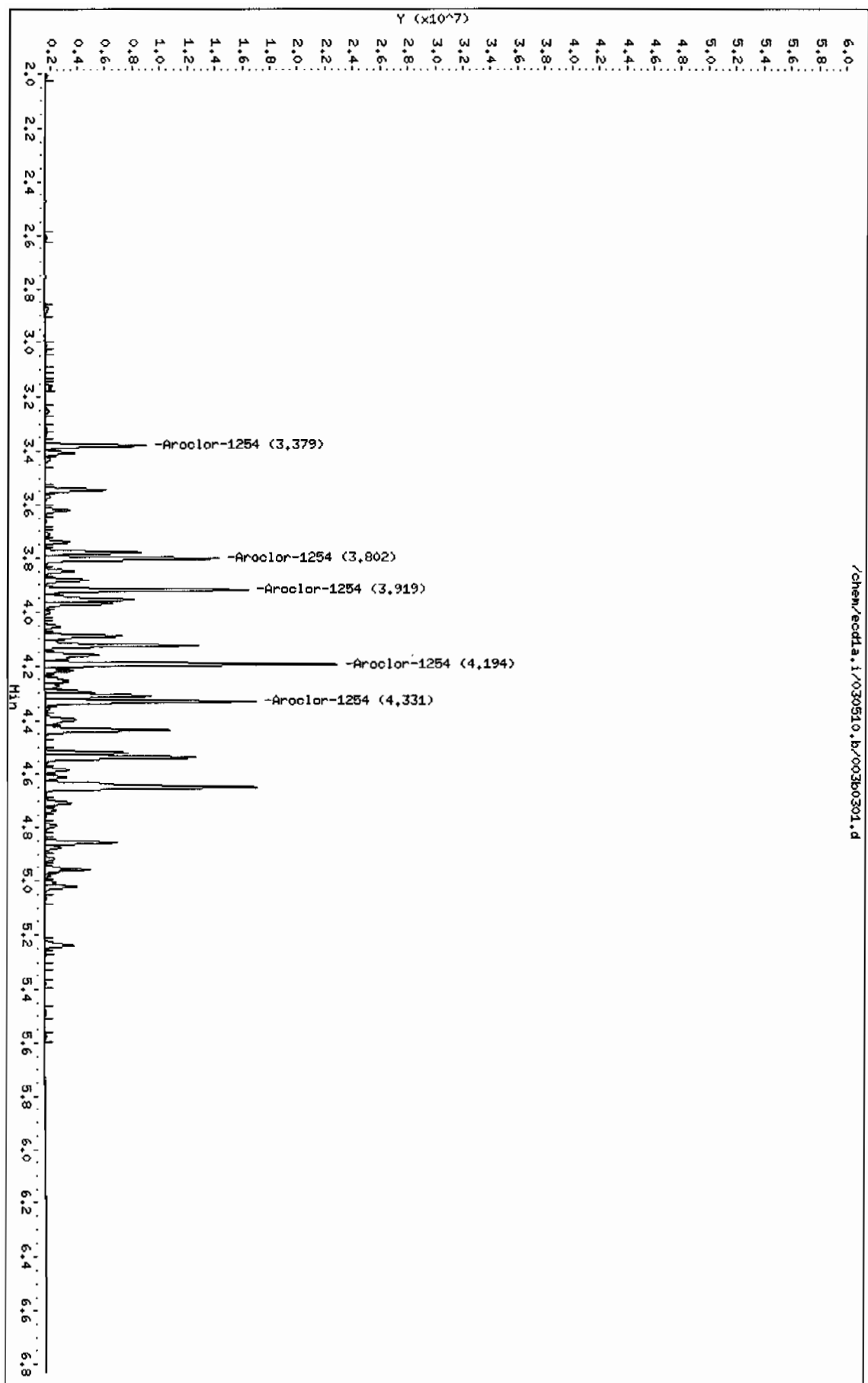
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Date: 05-MAR-2010 06:18
Client ID: AR125401
Sample Info: 146R100219-54

Instrument: ecdl1.i

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Column phase: CLP2

Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/004f0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 05-MAR-2010 06:29

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

2.370	2.370	0.000	10894878	1000.00	868 80.00- 120.00	100.00
2.657	2.657	0.000	13978840	1000.00	957 108.31- 148.31	128.31
2.775	2.775	0.000	5354549	1000.00	951 29.15- 69.15	49.15
2.986	2.986	0.000	6962743	1000.00	952 43.91- 83.91	63.91
3.239	3.239	0.000	6612187	1000.00	1070 40.69- 80.69	60.69

Average of Peak Amounts =

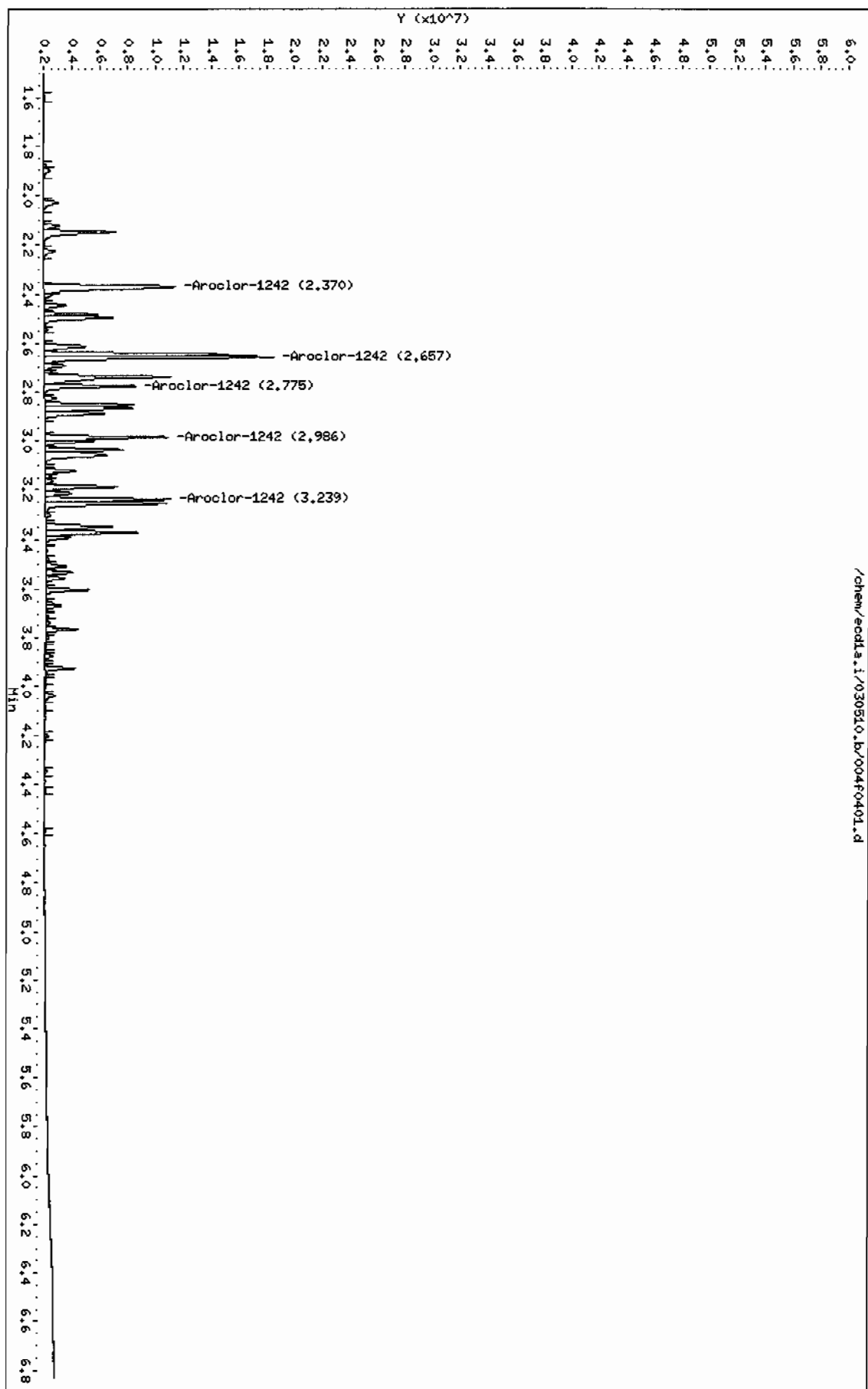
959

Data File: /chem/ecdl1a.i/030510.b/004f0401.d
Date: 05-MAR-2010 06:29
Client ID: MR124201
Sample Info: 11MR100219-42

Page 1

Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSI
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030510.b/004b0401.d
Report Date: 05-Mar-2010 14:51

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/004b0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 05-MAR-2010 06:29

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

3.171	3.171	0.000	9728729	1000.00	940 80.00- 120.00	100.00
3.254	3.254	0.000	6422223	1000.00	882 46.01- 86.01	66.01
3.545	3.545	0.000	5106878	1000.00	885 32.49- 72.49	52.49
3.778	3.778	0.000	5402685	1000.00	933 35.53- 75.53	55.53
3.806	3.806	0.000	6016313	1000.00	906 41.84- 81.84	61.84

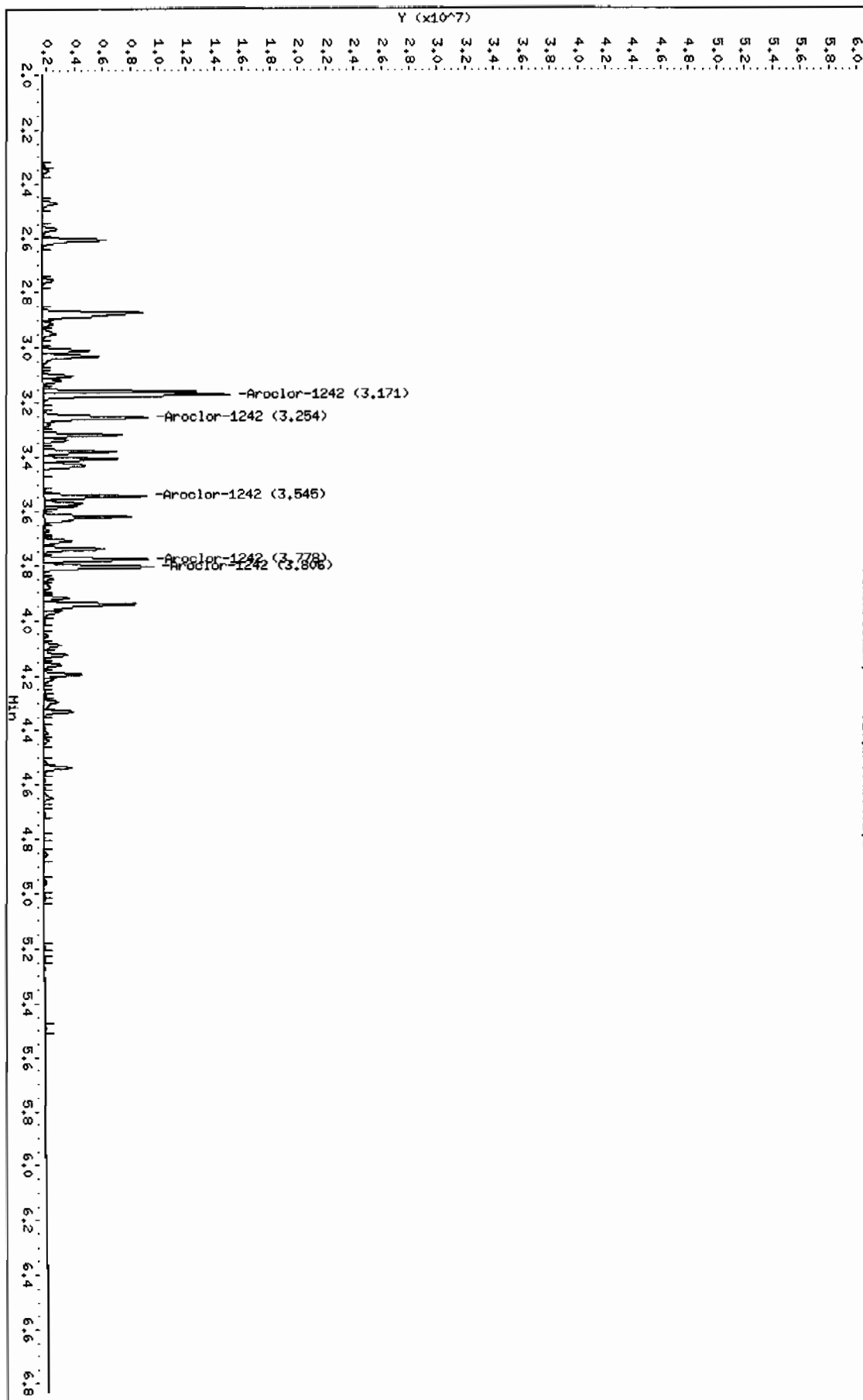
Average of Peak Amounts =

909

Data File: /chem/ecdl1.i/030510.b/004b0401.d
Date: 05-MAR-2010 06:29
Client ID: AR124201
Sample Info: IMR100219-42
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/030510.b/004b0401.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/005f0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 05-MAR-2010 06:39

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

5 Aroclor-1248			CAS #: 12672-29-6			
2.853	2.853	0.000	9169603 1000.00	986	80.00- 120.00	100.00
2.986	2.986	0.000	11903207 1000.00	959	109.81- 149.81	129.81
3.239	3.239	0.000	13280845 1000.00	1090	124.84- 164.84	144.84
3.372	3.372	0.000	10975763 1000.00	1050	99.70- 139.70	119.70
3.603	3.603	0.000	7267585 1000.00	1060	59.26- 99.26	79.26

Average of Peak Amounts = 1.03e+03

Data File: /chem/ecdl1.i/030510.b/005f0501.d
Date : 05-MAR-2010 06:39
Client ID: AF124801
Sample Info: 1MR100223-48

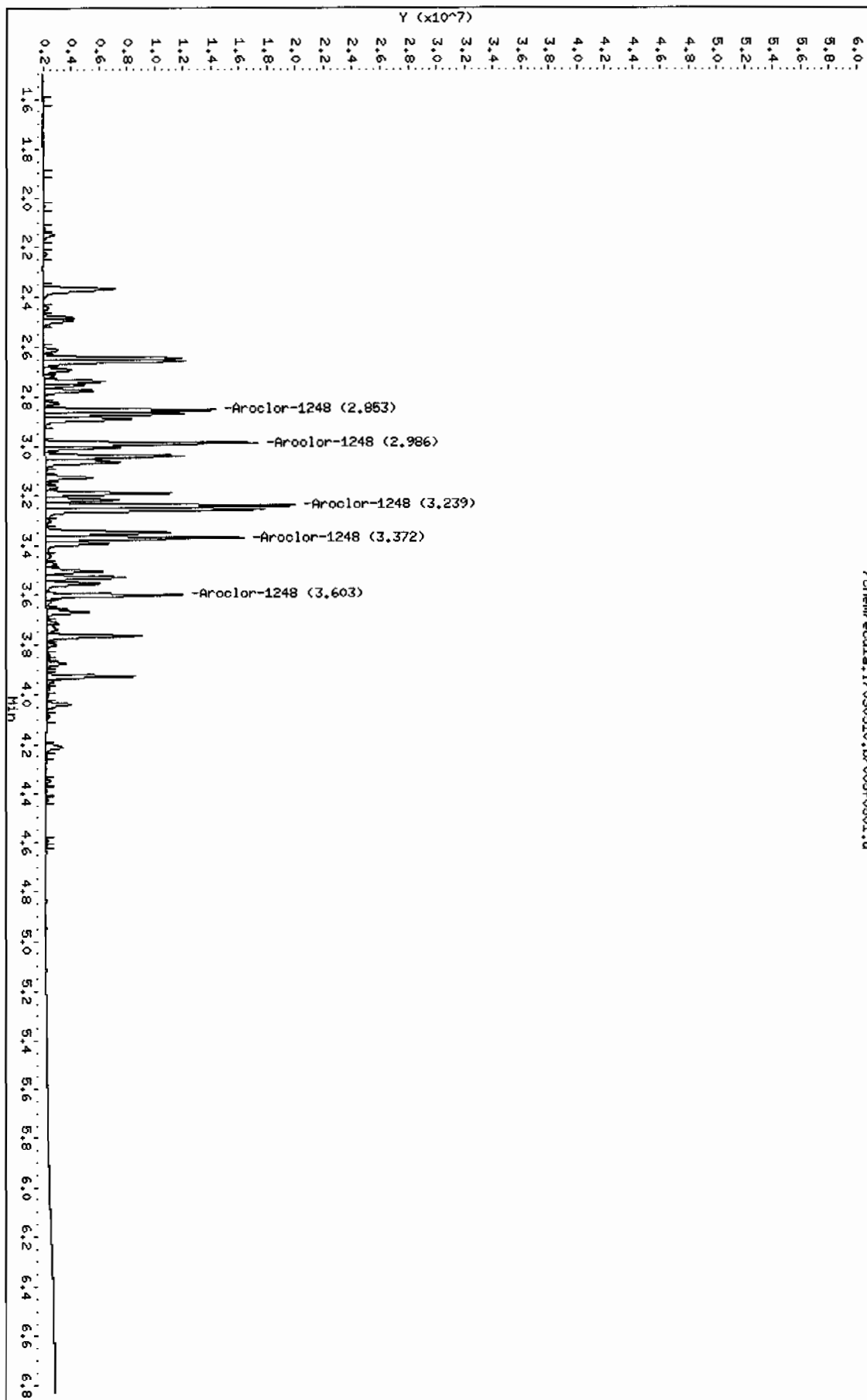
Instrument: ecdl1.i

Page 1

Column phase: CLP1

Operator: YSA
Column diameter: 0.25

/chem/ecdl1.i/030510.b/005f0501.d



Data File: /chem/ecdla.i/030510.b/005b0501.d
Report Date: 05-Mar-2010 14:52

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/005b0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 05-MAR-2010 06:39

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
3.381	3.381	0.000	6932723 1000.00	912 80.00- 120.00	100.00	
3.545	3.545	0.000	8719781 1000.00	932 105.78- 145.78	125.78	
3.779	3.779	0.000	10360271 1000.00	973 129.44- 169.44	149.44	
3.807	3.807	0.000	11495913 1000.00	950 145.82- 185.82	165.82	
3.943	3.943	0.000	11119788 1000.00	967 140.40- 180.40	160.40	
Average of Peak Amounts =				947		

Data File: /chem/ecdl1.i/030510.b/005b0501.d
Date : 05-MAR-2010 06:39
Client ID: AR124801
Sample Info: 1MAR100223-48

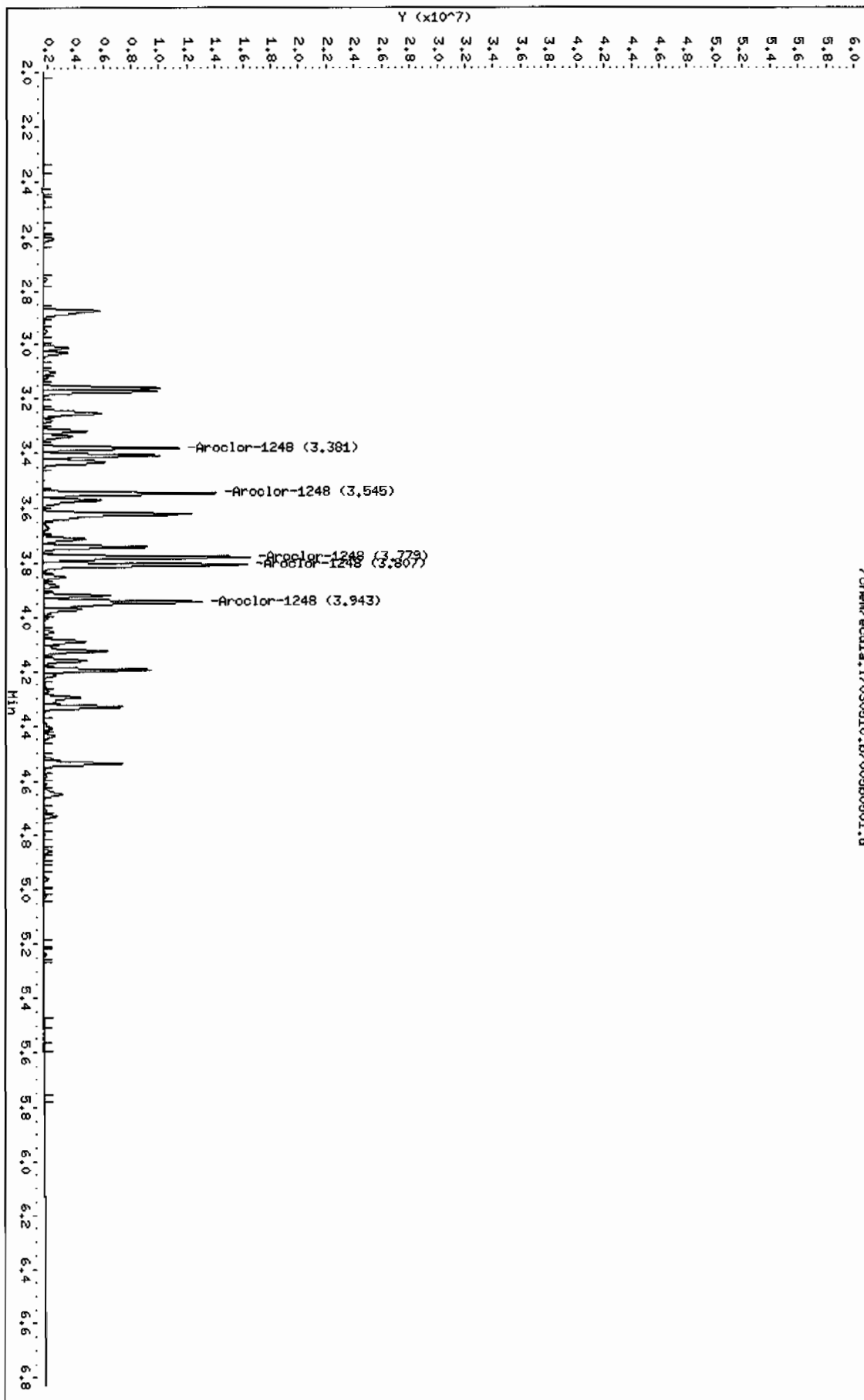
Instrument: ecdl1.i

Page 1

Column phase: CLP2

Operator: YSI
Column diameter: 0.25

/chem/ecdl1.i/030510.b/005b0501.d



Data File: /chem/ecdl1a.i/030510.b/007f0701.d
Report Date: 05-Mar-2010 14:52

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/007f0701.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 05-MAR-2010 07:00

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
3						
3 Aroclor-1232			CAS #: 11141-16-5			
2.370	2.370	0.000	6368878 1000.00	1020	80.00- 120.00	100.00
2.657	2.657	0.000	8003924 1000.00	1070	105.67- 145.67	125.67
2.738	2.738	0.000	5268026 1000.00	1080	62.72- 102.72	82.72
2.852	2.852	0.000	2572025 1000.00	1170	20.38- 60.38	40.38
3.239	3.239	0.000	3469339 1000.00	1270	34.47- 74.47	54.47
Average of Peak Amounts =			1.12e+03			

Data File: /chem/ecdd1a.i/030510.b/007f0701.d

Date : 05-MAR-2010 07:00

Client ID: AR123201

Sample Info: 1MAR100104-32

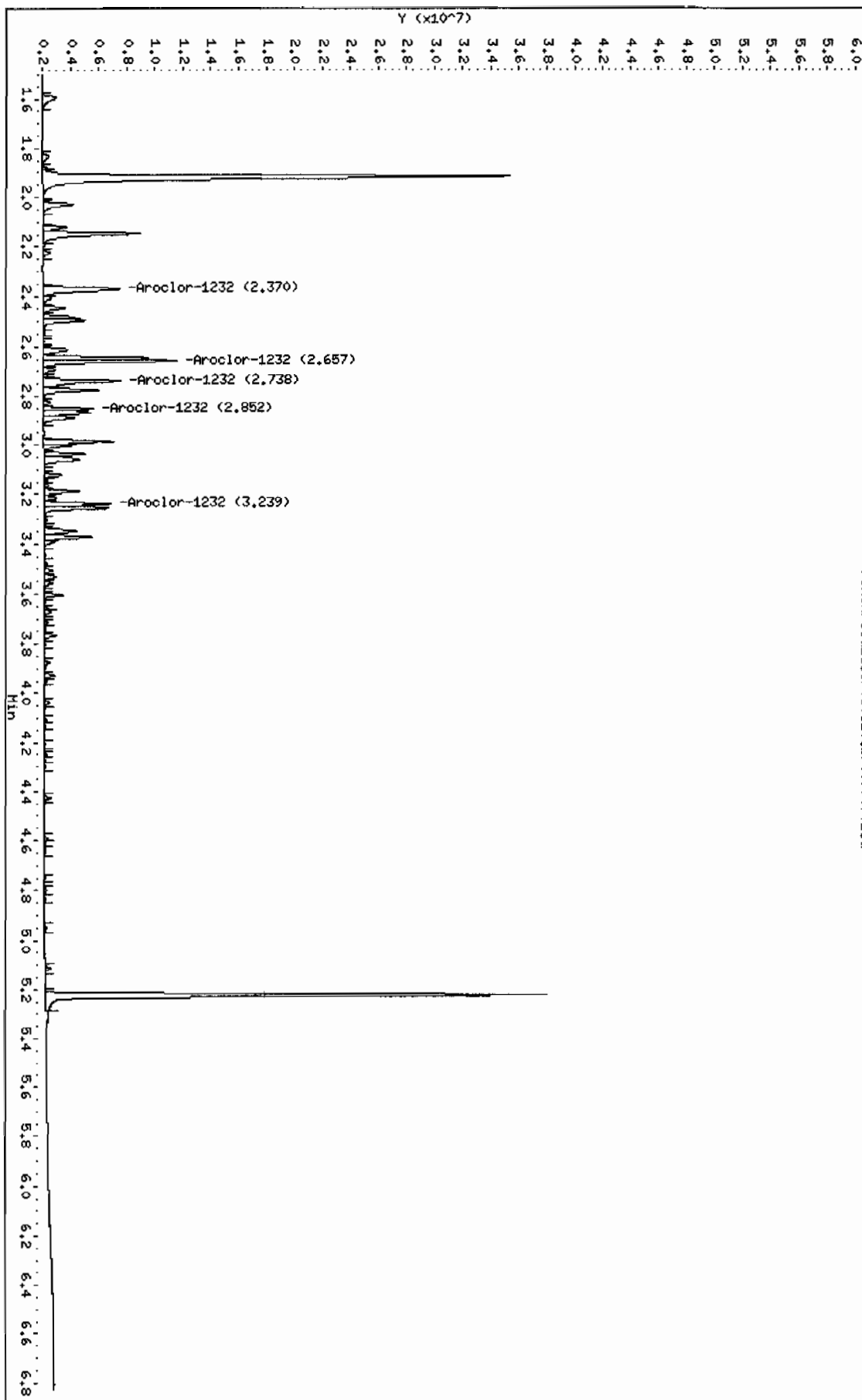
Column phase: CLP1

Instrument: ecdd1a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdd1a.i/030510.b/007f0701.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/007b0701.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 05-MAR-2010 07:00

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

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	5024357 1000.00	1020	80.00- 120.00	100.00
3.172	3.172	0.000	5613311 1000.00	1070	91.72- 131.72	111.72
3.255	3.255	0.000	3888361 1000.00	1030	57.39- 97.39	77.39
3.545	3.545	0.000	2903793 1000.00	1080	37.79- 77.79	57.79
3.780	3.780	0.000	2910374 1000.00	1110	37.93- 77.93	57.93
Average of Peak Amounts "			1.06e+03			

Data File: /chem/ecdl1a.i/030510.b/007b0701.d
Date: 05-MAR-2010 07:00
Client ID: AR123201
Sample Info: IMR100104-32

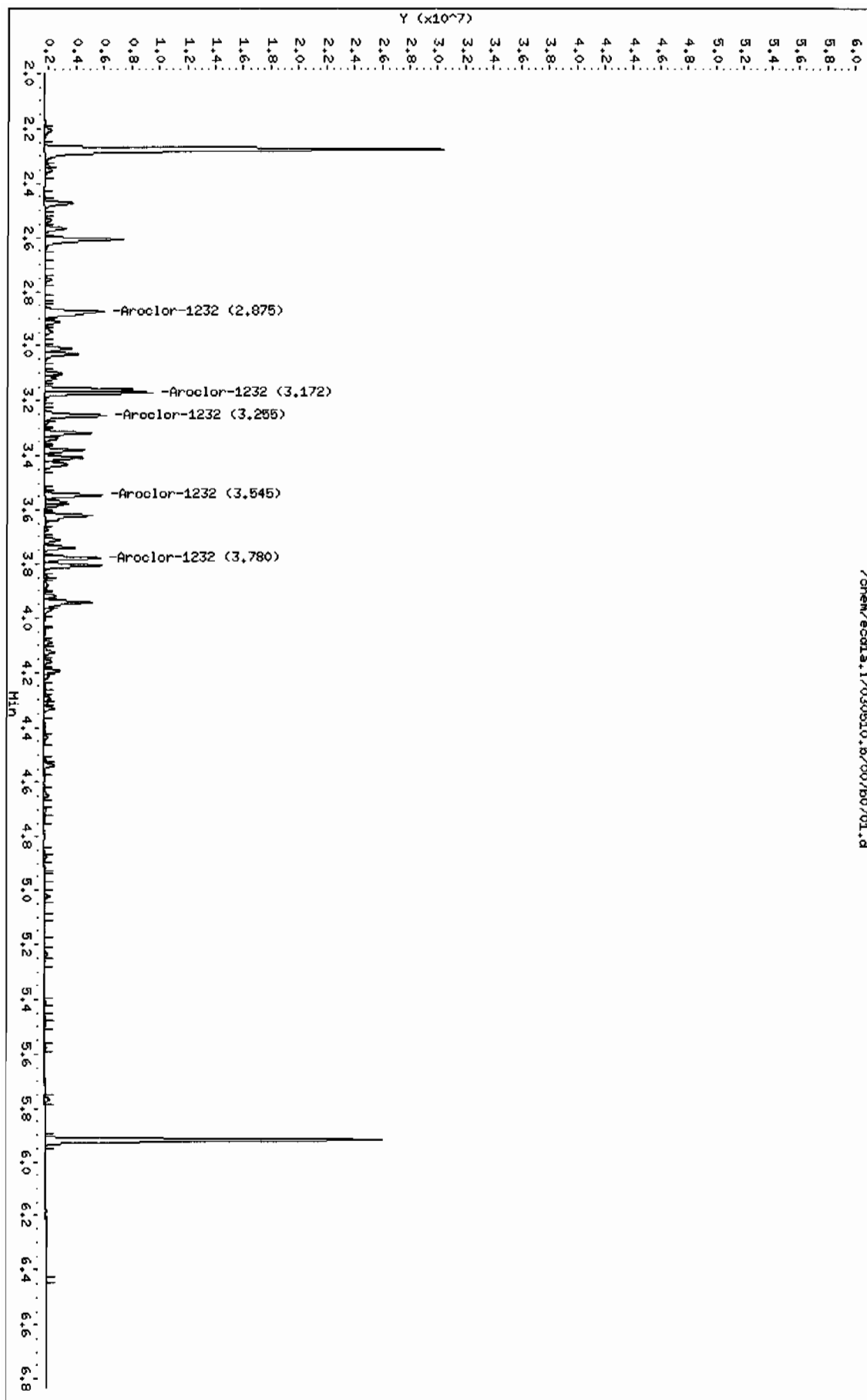
Instrument: ecdl1a.i

Page 1

Column phase: CLP2

Operator: YSI
Column diameter: 0.25

/chem/ecdl1a.i/030510.b/007b0701.d



Data File: /chem/ecdl1a.i/030510.b/008f0801.d
Report Date: 05-Mar-2010 14:53

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/008f0801.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 05-MAR-2010 07:11

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 05-Mar-2010 14:50 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

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

2.030	2.030	0.000	4523200	1000.00	1030 80.00- 120.00	100.00
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2.122	2.122	0.000	2553190	1000.00	1050 36.45- 76.45	56.45
-------	-------	-------	---------	---------	-------------------	-------

2.148	2.148	0.000	10821033	1000.00	1040 219.23- 259.23	239.23
-------	-------	-------	----------	---------	---------------------	--------

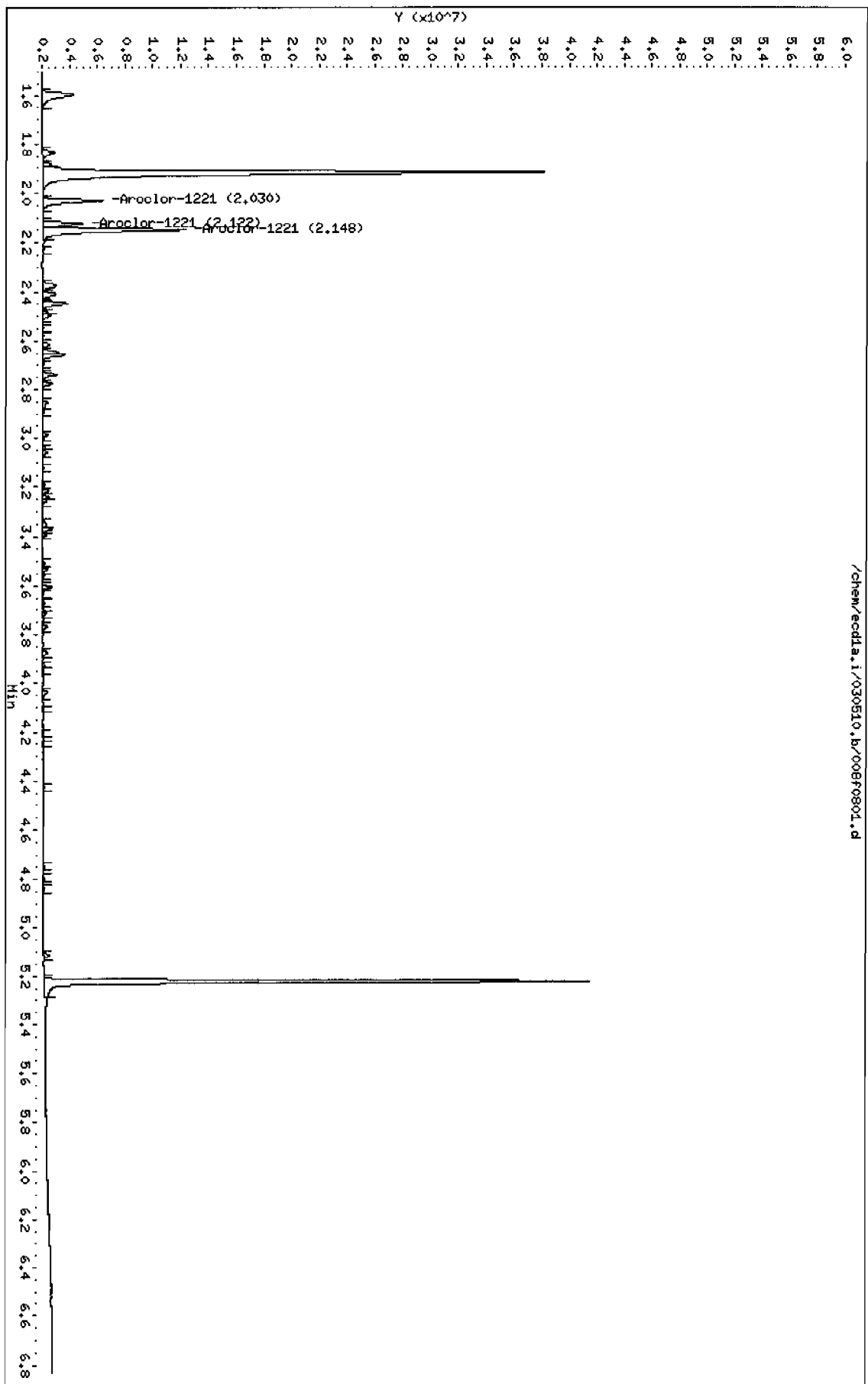
Average of Peak Amounts = 1.04e+03

Data File: /chem/ecad1a.i/030510.b/008f0801.d
Date : 05-MAR-2010 07:11
Client ID: 66122101
Sample Info: 11MR100104-21

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Column phase: CLP1

Instrument: ecad1a.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/030510.b/008b0801.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 05-MAR-2010 07:11

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 05-Mar-2010 14:52 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

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.473	2.473	0.000	3398589 1000.00	990	80.00- 120.00	100.00
2.567	2.567	0.000	2190099 1000.00	1020	44.44- 84.44	64.44
2.608	2.608	0.000	7610137 1000.00	1040	203.92- 243.92	223.92

Average of Peak Amounts = 1.02e+03

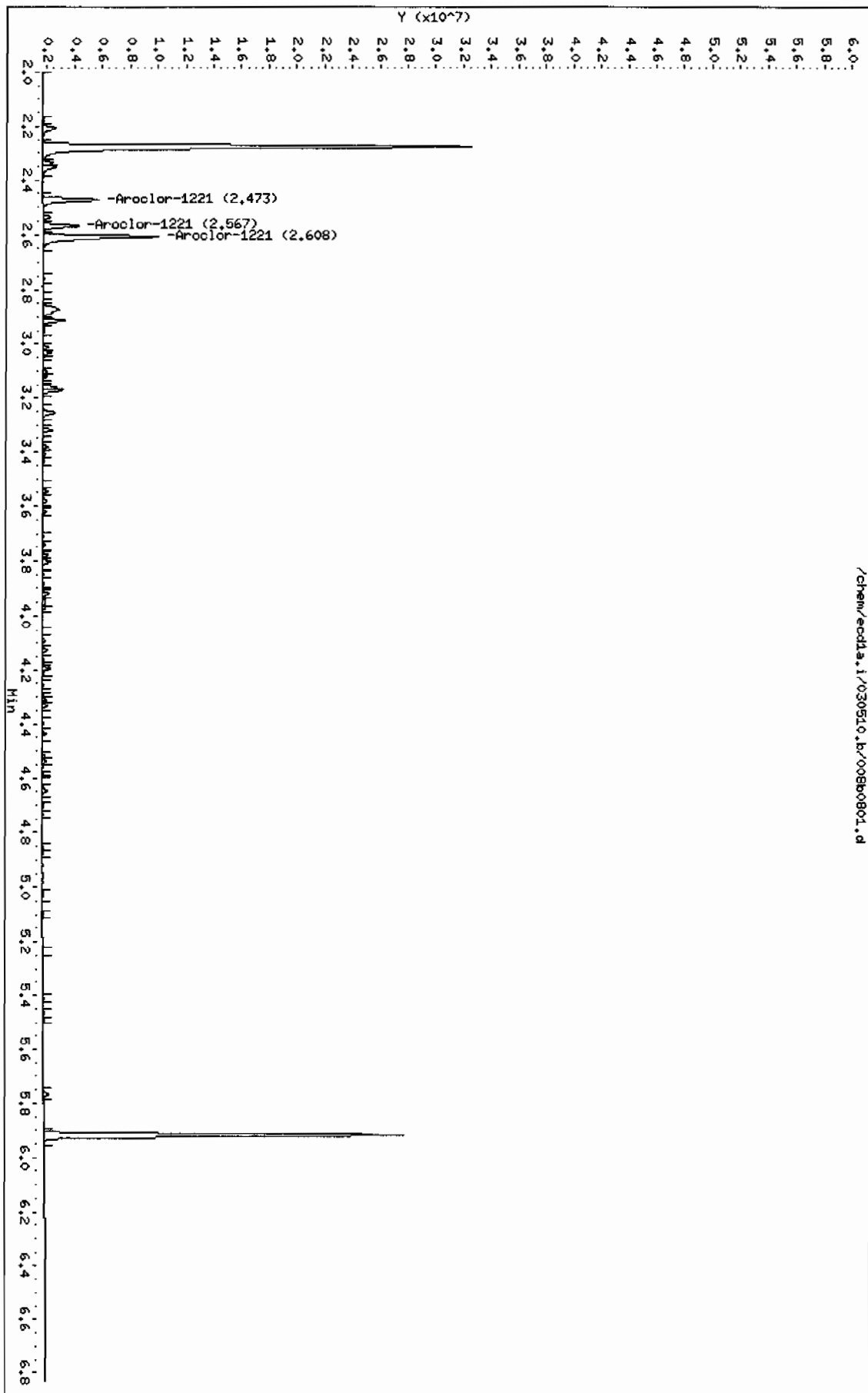
Data File: /chem/ecdl1.i/030510.b/008b0801.d
Date : 05-MAR-2010 07:11
Client ID: AR122101
Sample Info: 1MAR100104-21

Page 1

Column phase: CLP2

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25

/chem/ecdl1.i/030510.b/008b0801.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/045f4501.d
 Lab Smp Id: WAR100222-60 05 Client Smp ID: AR166005
 Inj Date : 05-MAR-2010 14:36
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |WAR100222-60 05
 Misc Info :
 Comment :
 Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m
 Meth Date : 05-Mar-2010 14:50 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 45 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ug/L)	(ug/L)	=====	=====

\$ 11 4cmx				CAS #: 877-09-8		
1.916	1.916	0.000	39323389 100.000	91.3	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.221	5.224	-0.003	29552561 100.000	96.2	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.369	2.369	0.000	13398973 1000.00	871	80.00- 120.00	100.00
2.655	2.656	-0.001	17620836 1000.00	966	111.51- 151.51	131.51
2.735	2.737	-0.002	11121188 1000.00	922	63.00- 103.00	83.00
2.773	2.774	-0.001	6695252 1000.00	944	29.97- 69.97	49.97
2.983	2.984	-0.001	8461867 1000.00	949	43.15- 83.15	63.15
Average of Peak Amounts =				930		

7 Aroclor-1260				CAS #: 11096-82-5		
3.709	3.710	-0.001	16352200 1000.00	958	80.00- 120.00	100.00
3.871	3.874	-0.003	24371590 1000.00	1030	129.04- 169.04	149.04
4.034	4.035	-0.001	26177647 1000.00	1050	140.09- 180.09	160.09
4.101	4.104	-0.003	14701582 1000.00	1020	69.91- 109.91	89.91
4.244	4.246	-0.002	15271547 1000.00	1060	73.39- 113.39	93.39
Average of Peak Amounts =				1.02e+03		

Data File: /chem/ecda.i/030510.b/045f4501.d
Date : 05-MAR-2010 14:36
Client ID: AR166005
Sample Info: IAR100222-60 05

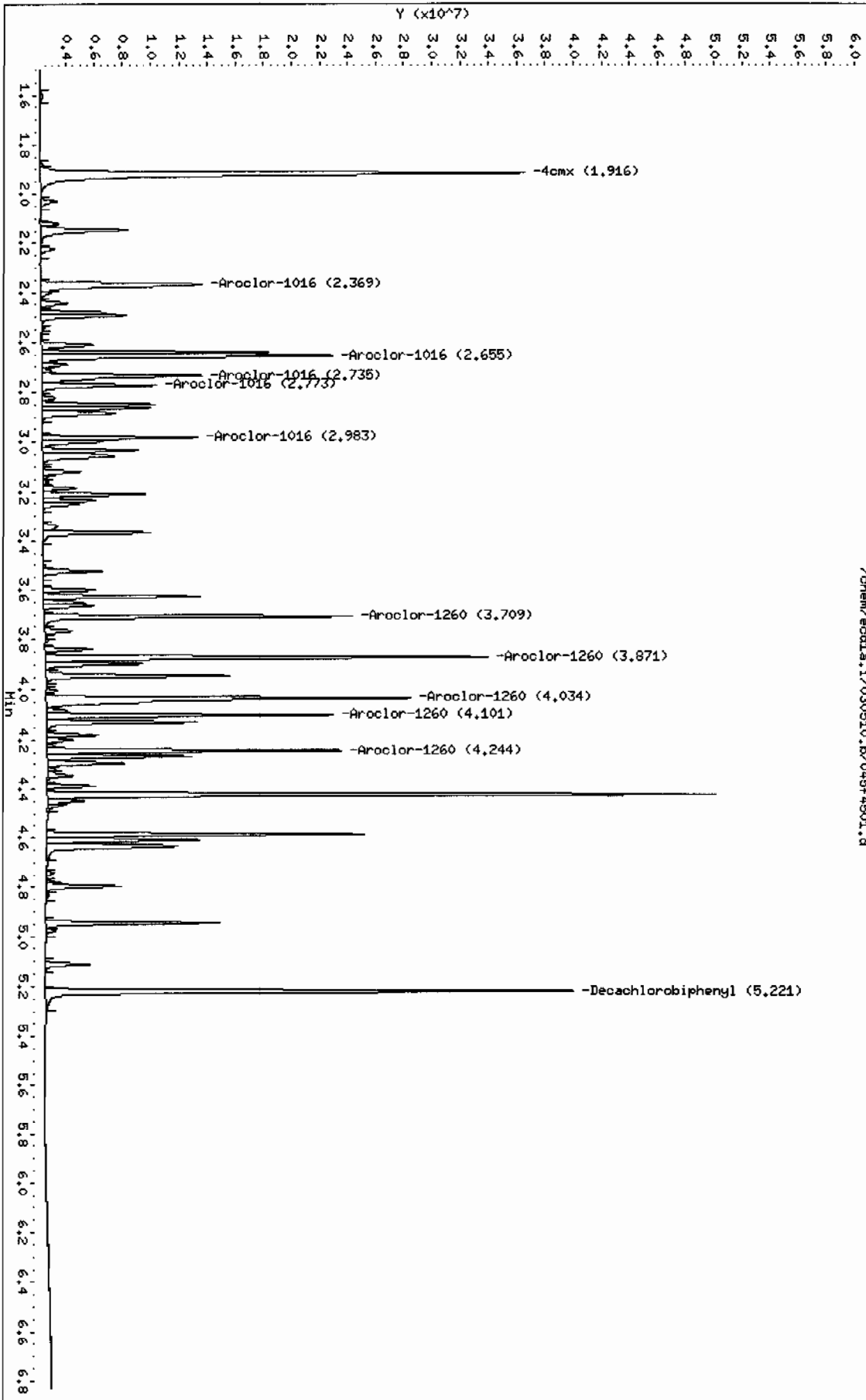
Instrument: ecda.i

Page 1

Column phase: CLP1

Operator: YSI
Column diameter: 0.25

/chem/ecda.i/030510.b/045f4501.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/045b4501.d

Lab Smp Id: WAR100222-60 05

Client Smp ID: AR166005

Inj Date : 05-MAR-2010 14:36

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 05

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 05-Mar-2010 14:52 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 45

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
2.274	2.275	-0.001	26775712	100.000	90.0	80.00-	120.00	100.00
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.917	5.919	-0.002	18749890	100.000	88.6	80.00-	120.00	100.00
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
3.169	3.170	-0.001	12242980	1000.00	957	80.00-	120.00	100.00 (M)
3.252	3.254	-0.002	7849999	1000.00	880	44.12-	84.12	64.12
3.316	3.317	-0.001	4891813	1000.00	905	19.96-	59.96	39.96
3.543	3.544	-0.001	6153875	1000.00	890	30.26-	70.26	50.26
3.619	3.619	0.000	5810980	1000.00	904	27.46-	67.46	47.46
Average of Peak Amounts =					907			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
4.309	4.310	-0.001	11791151	1000.00	893	80.00-	120.00	100.00
4.433	4.435	-0.002	14439350	1000.00	928	102.46-	142.46	122.46
4.699	4.701	-0.002	10833543	1000.00	915	71.88-	111.88	91.88
4.873	4.874	-0.001	11232638	1000.00	921	75.26-	115.26	95.26
5.019	5.021	-0.002	25172698	1000.00	949	193.49-	233.49	213.49
Average of Peak Amounts =					921			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecda.i/030510.b/045b4501.d
Date: 05-MAR-2010 14:36
Client ID: AR166005
Sample Info: 1MAR100222-60 05

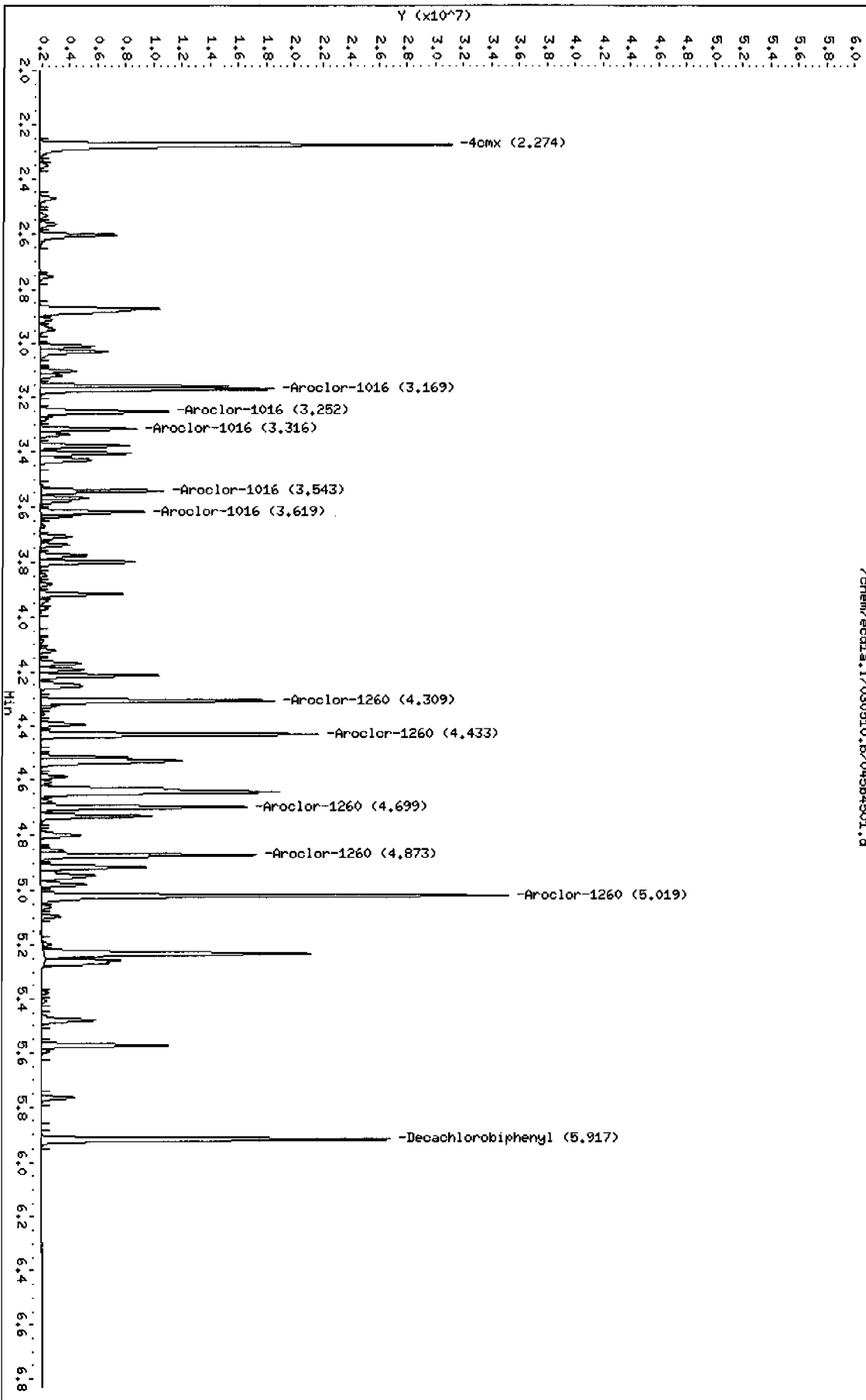
Instrument: ecda.i

Page 1

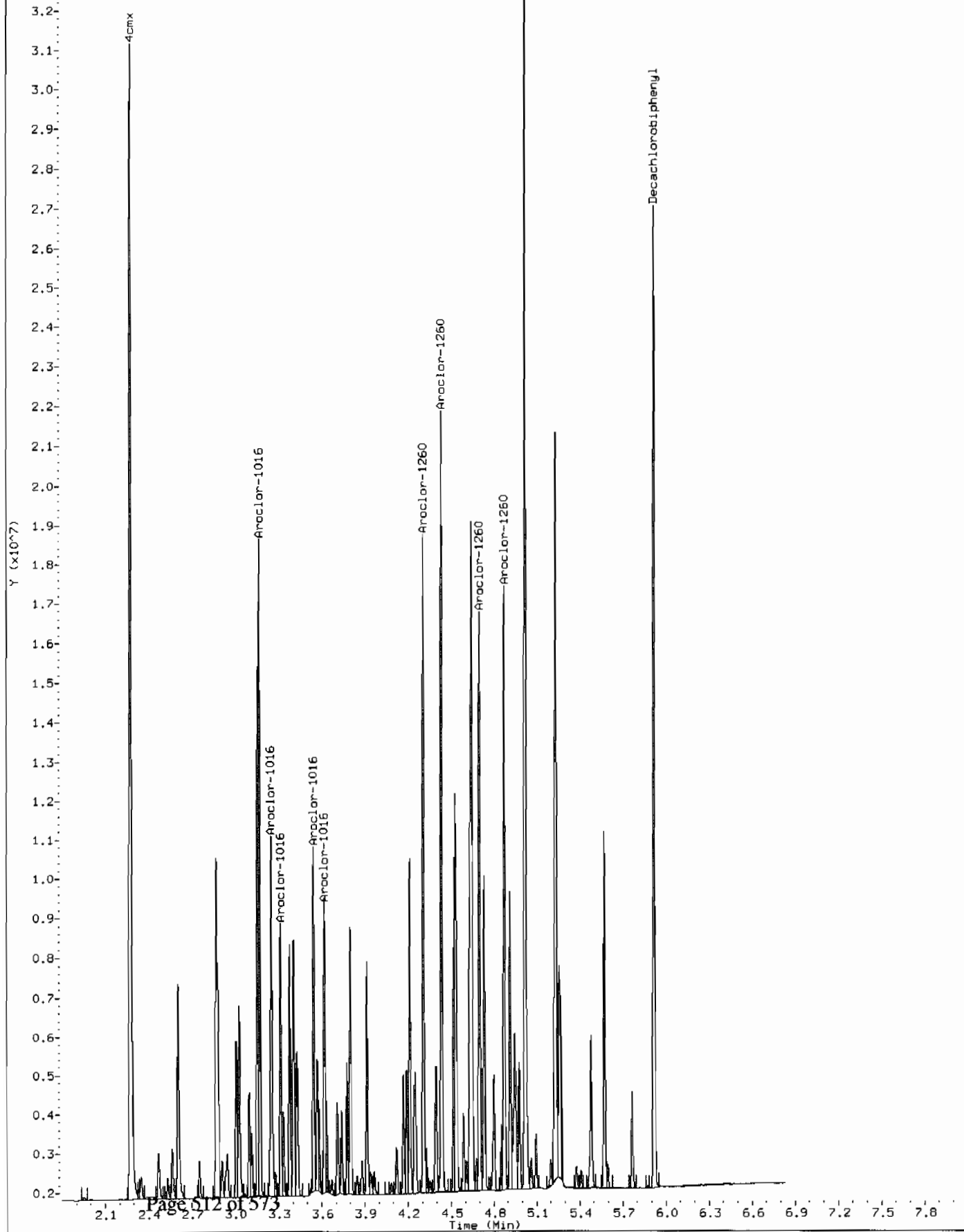
Column phase: CLP2

Operator: YSI
Column diameter: 0.25

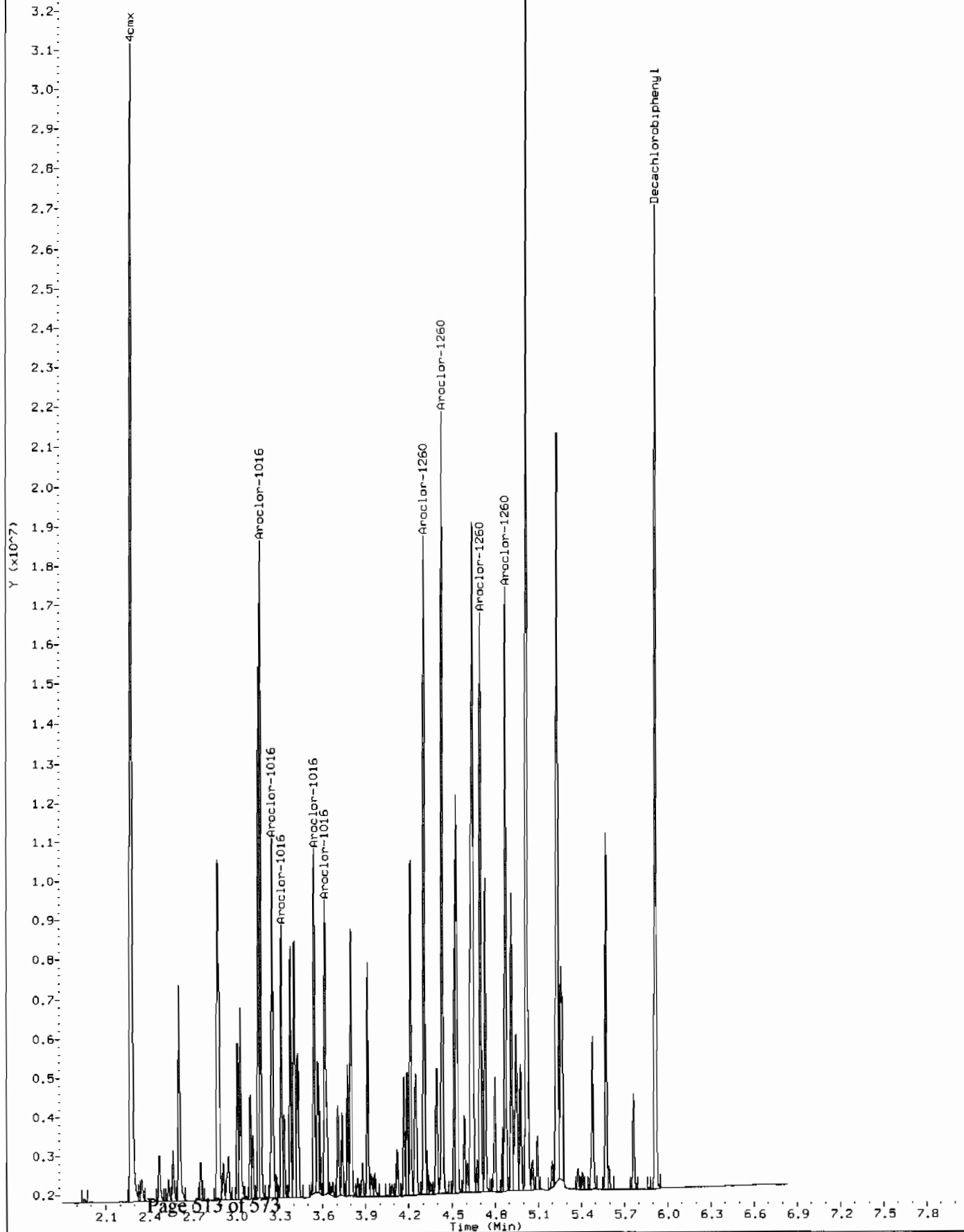
/chem/ecda.i/030510.b/045b4501.d



Comment: Manually Integrated
Data File: /chem/ecdl1.i/030510.b/045b4501.d
Operator: YS1
Injection Date: 05-MAR-2010 14:36
Instrument: ecd1a.i
Client Sample ID: AR166005



Comment: Before manual integration
Data File: /chem/ecdl.a.i/030510.b/Orig-045b4501.d
Operator: YS1
Injection Date: 05-MAR-2010 14:36
Instrument: ecdla.i
Client Sample ID: AR166005



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/056f5601.d

Lab Smp Id: WAR100222-60 06 Client Smp ID: AR166006

Inj Date : 05-MAR-2010 16:50

Operator : YS1 Inst ID: ecdla.i

Smp Info : |WAR100222-60 06

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 08-Mar-2010 06:20 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d

Als bottle: 56 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			
1.915	1.916	-0.001	40028788	100.000	93.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.222	5.224	-0.002	27527417	100.000	89.6	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.369	2.369	0.000	13631794	1000.00	886	80.00- 120.00	100.00	
2.655	2.656	-0.001	17441264	1000.00	956	107.95- 147.95	127.95	
2.736	2.737	-0.001	11295109	1000.00	936	62.86- 102.86	82.86	
2.774	2.774	0.000	6853081	1000.00	966	30.27- 70.27	50.27	
2.984	2.984	0.000	8658444	1000.00	972	43.52- 83.52	63.52	
Average of Peak Amounts =					943			

7 Aroclor-1260					CAS #: 11096-82-5			
3.710	3.710	0.000	16712594	1000.00	979	80.00- 120.00	100.00	
3.872	3.874	-0.002	24796101	1000.00	1050	128.37- 168.37	148.37	
4.035	4.035	0.000	26390716	1000.00	1060	137.91- 177.91	157.91	
4.103	4.104	-0.001	14810830	1000.00	1030	68.62- 108.62	88.62	
4.245	4.246	-0.001	15269912	1000.00	1060	71.37- 111.37	91.37	
Average of Peak Amounts =					1.03e+03			

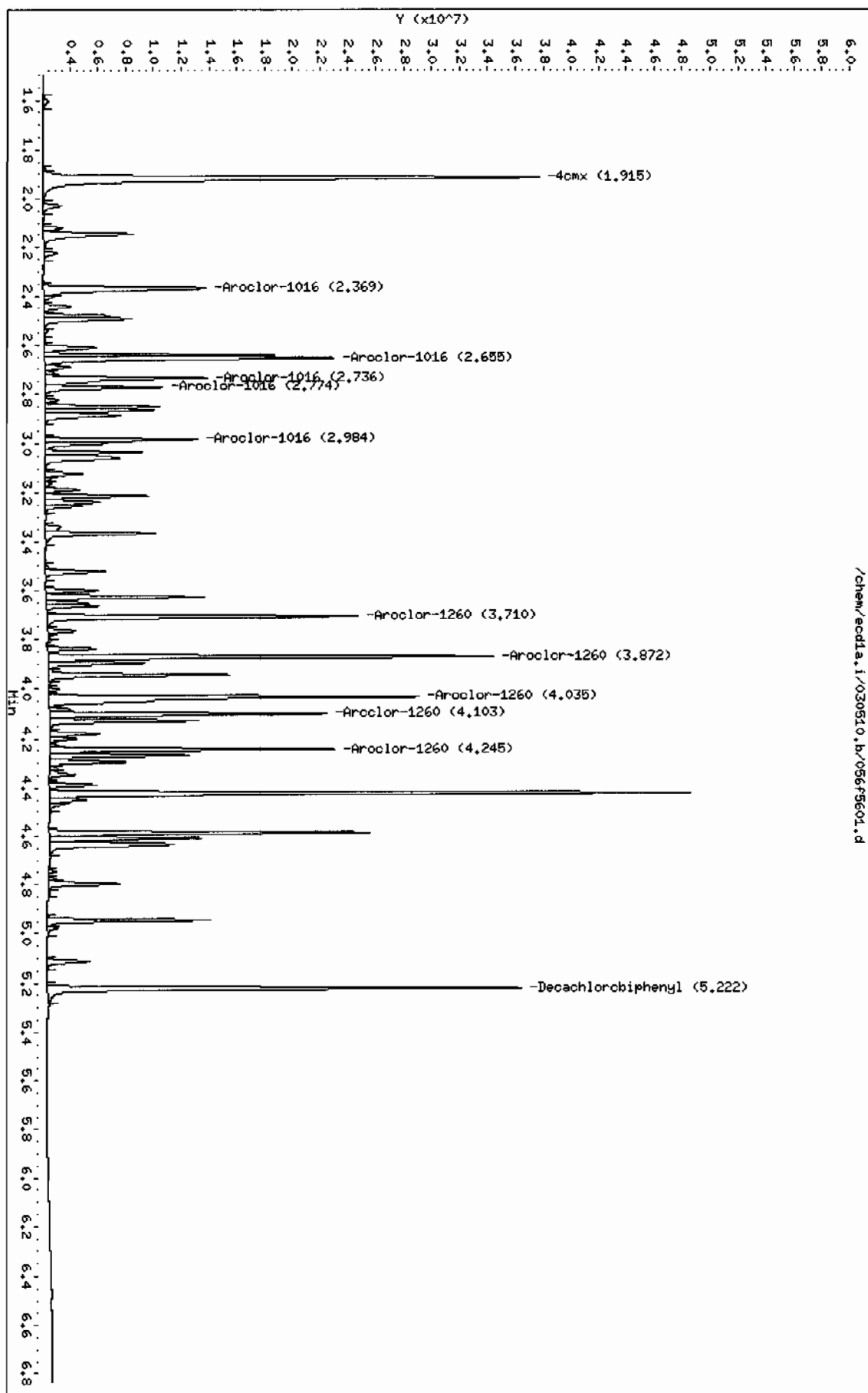
Data File: /chem/ecdl1.i/030510.b/056f5601.d
Date: 05-MAR-2010 16:50
Client ID: AR166006
Sample Info: MAR100222-60 06

Instrument: ecdl1.i

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Column phase: CLP1

Operator: YSI
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/056b5601.d

Lab Smp Id: WAR100222-60 06

Client Smp ID: AR166006

Inj Date : 05-MAR-2010 16:50

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 06

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 08-Mar-2010 06:25 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 56

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.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
\$ 11 4cmx				CAS #: 877-09-8		
2.275	2.275	0.000	27410576 100.000	92.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.918	5.919	-0.001	18306075 100.000	86.6	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.170	3.170	0.000	12172140 1000.00	952	80.00- 120.00	100.00(M)
3.253	3.254	-0.001	8005885 1000.00	898	46.23- 86.23	65.77
3.316	3.317	-0.001	5019143 1000.00	928	21.48- 61.48	41.23
3.544	3.544	0.000	6485252 1000.00	938	31.99- 71.99	53.28
3.619	3.619	0.000	6004791 1000.00	934	38.88- 78.88	59.49
Average of Peak Amounts =				930		

7 Aroclor-1260				CAS #: 11096-82-5		
4.310	4.310	0.000	11868591 1000.00	899	80.00- 120.00	100.00
4.434	4.435	-0.001	14507938 1000.00	932	102.26- 142.26	122.24
4.700	4.701	-0.001	10834764 1000.00	915	71.89- 111.89	91.29
4.873	4.874	-0.001	11178001 1000.00	916	75.23- 115.23	94.18
5.020	5.021	-0.001	24955577 1000.00	941	192.09- 232.09	210.27
Average of Peak Amounts =				920		

QC Flag Legend

M - Compound response manually integrated.

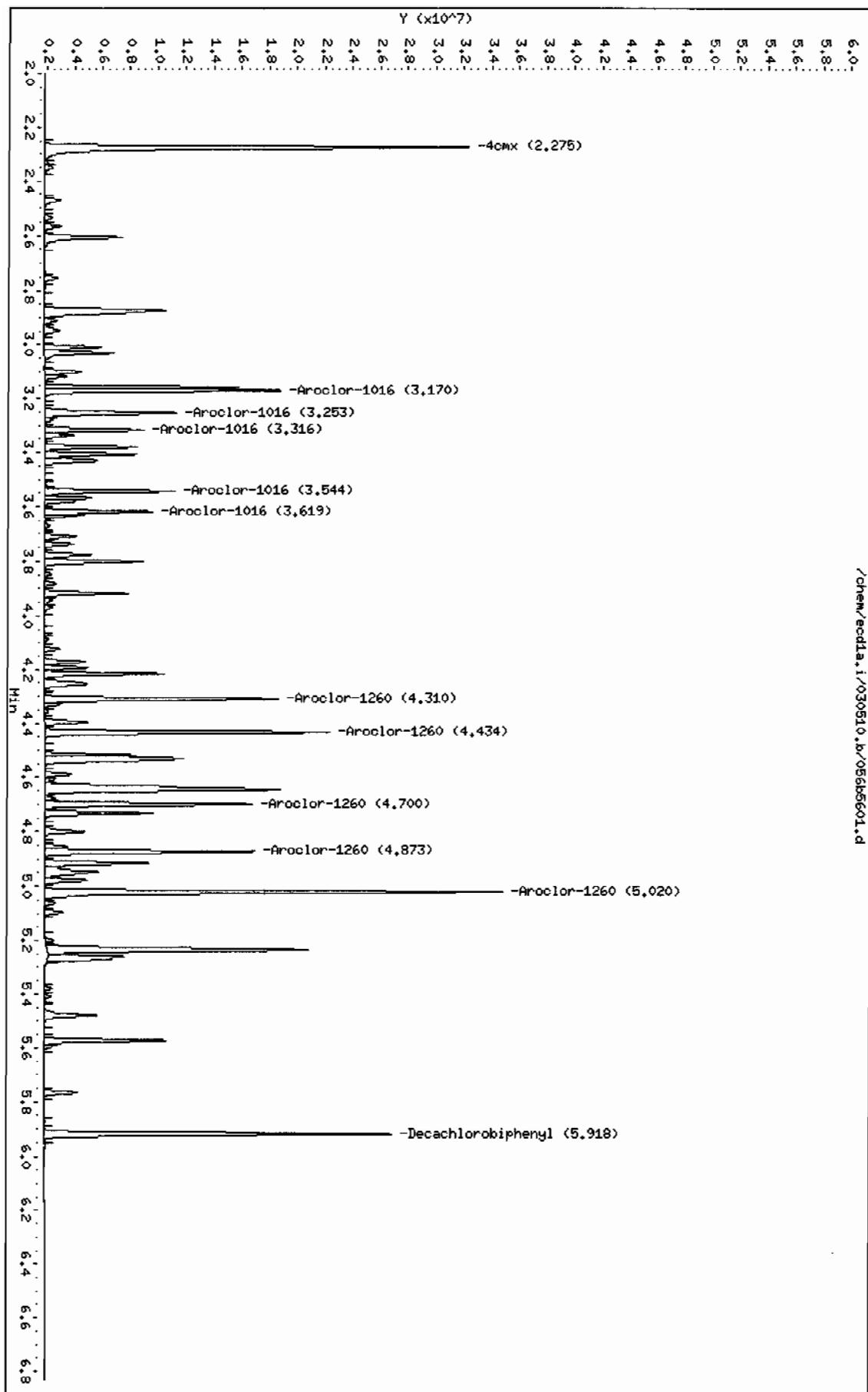
Data File: /chem/ecdl1.i/030510.b/056b5601.d
Date: 05-MAR-2010 16:50
Client ID: AR16006
Sample Info: IWR100222-60 06

Instrument: ecdl1.i

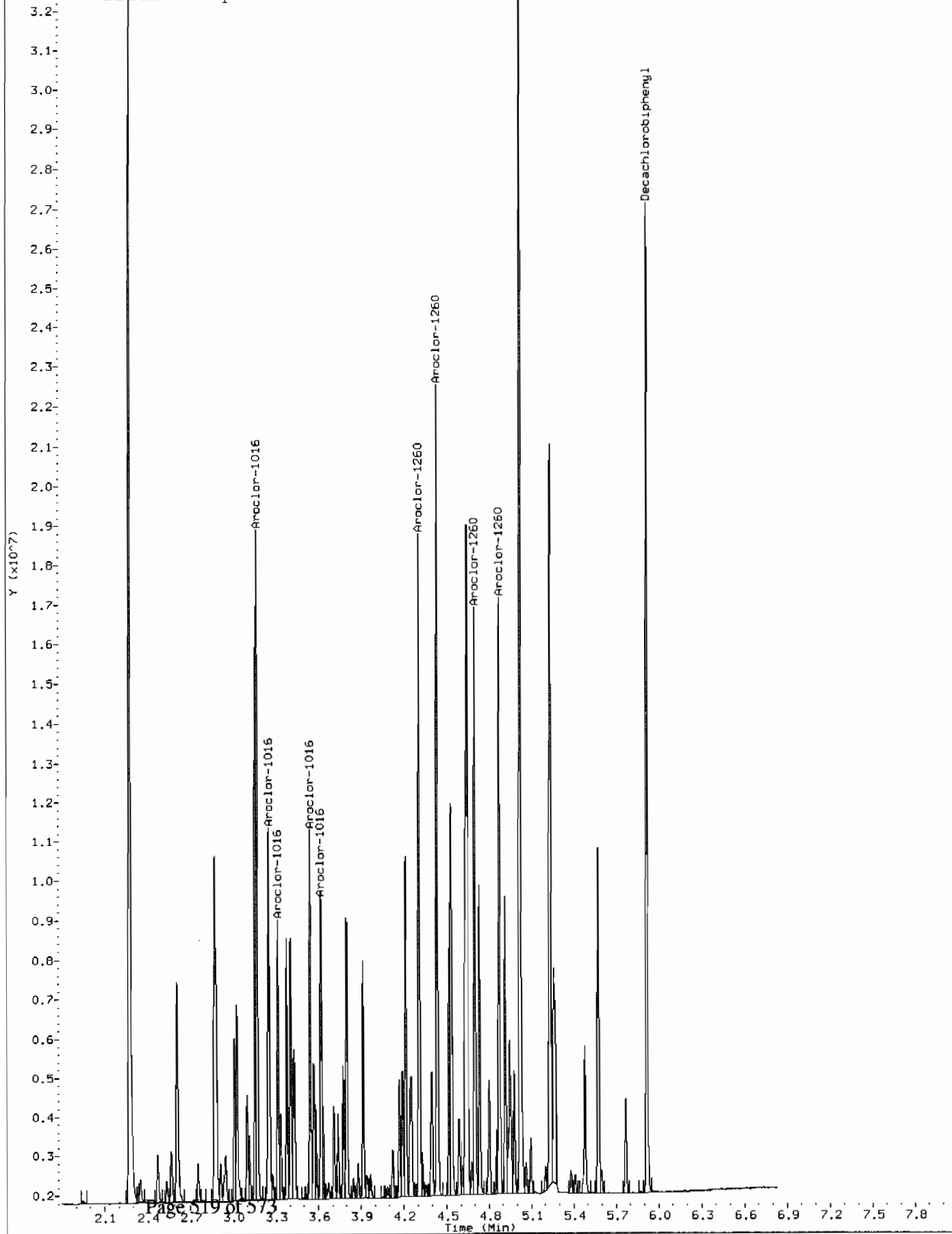
Page 1

Column phase: CLP2

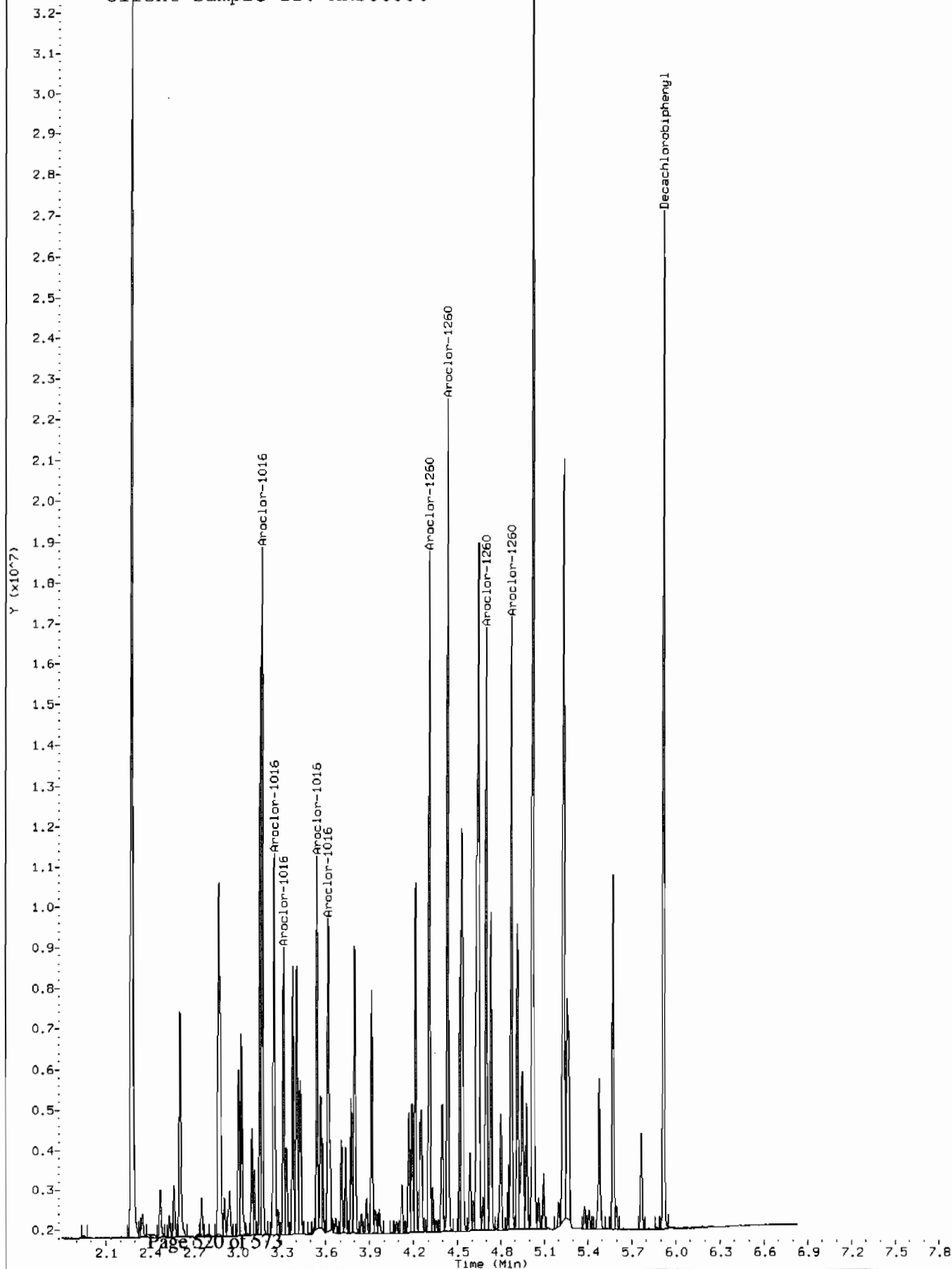
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1.i/030510.b/056b5601.d
Operator: YS1
Injection Date: 05-MAR-2010 16:50
Instrument: ecd1a.i
Client Sample ID: AR166006



Comment: Before manual integration
Data File: /chem/ecdl.i/030510.b/Orig-056b5601.d
Operator: YS1
Injection Date: 05-MAR-2010 16:50
Instrument: ecdla.i
Client Sample ID: AR166006



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/065f6501.d

Lab Smp Id: WAR100222-60 07

Client Smp ID: AR166007

Inj Date : 05-MAR-2010 18:44

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 07

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 08-Mar-2010 06:25 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 65

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx					CAS #: 877-09-8			
1.916	1.916	0.000	38706235	100.000	89.9	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.221	5.224	-0.003	28992936	100.000	94.4	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.369	2.369	0.000	13290276	1000.00	864	80.00-	120.00	100.00
2.656	2.656	0.000	17046695	1000.00	935	108.26-	148.26	128.26
2.736	2.737	-0.001	10949864	1000.00	908	62.39-	102.39	82.39
2.774	2.774	0.000	6634330	1000.00	935	29.92-	69.92	49.92
2.984	2.984	0.000	8495350	1000.00	953	43.92-	83.92	63.92
Average of Peak Amounts ~					919			

7 Aroclor-1260					CAS #: 11096-82-5			
3.710	3.710	0.000	16681534	1000.00	977	80.00-	120.00	100.00
3.872	3.874	-0.002	24630212	1000.00	1040	127.65-	167.65	147.65
4.034	4.035	-0.001	26286683	1000.00	1050	137.58-	177.58	157.58
4.102	4.104	-0.002	14850943	1000.00	1030	69.03-	109.03	89.03
4.245	4.246	-0.001	15409135	1000.00	1070	72.37-	112.37	92.37
Average of Peak Amounts ~					1.03e+03			

Data File: /chem/ecdda.i/030510.b/065f6501.d

Date : 05-MAR-2010 18:44

Client ID: AR166007

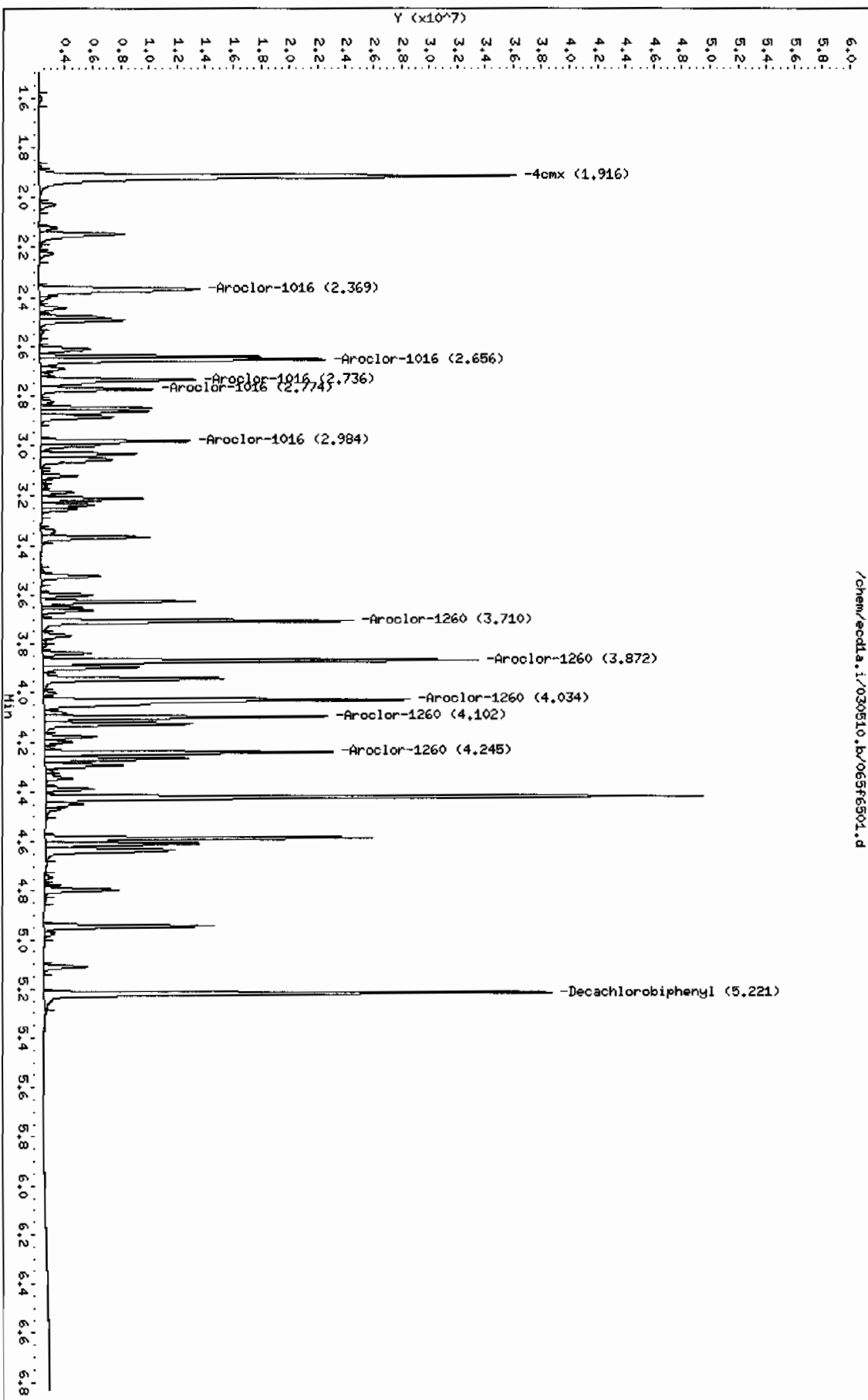
Sample Info: 14AR100222-60 07

Column phase: CLP1

Instrument: ecdda.i

Operator: YS1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/065b6501.d

Lab Smp Id: WAR100222-60 07

Client Smp ID: AR166007

Inj Date : 05-MAR-2010 18:44

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 07

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 08-Mar-2010 06:25 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 65

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
2.275	2.275	0.000	26493833 100.000	89.1	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.918	5.919	-0.001	18354771 100.000	86.8	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
3.170	3.170	0.000	11779655 1000.00	921	80.00- 120.00	100.00 (M)	
3.253	3.254	-0.001	7801285 1000.00	875	45.77- 85.77	66.23	
3.316	3.317	-0.001	4885617 1000.00	904	21.23- 61.23	41.48	
3.544	3.544	0.000	6345302 1000.00	918	33.28- 73.28	53.87	
3.619	3.619	0.000	5859069 1000.00	912	29.33- 69.33	49.74	
Average of Peak Amounts =				906			

7 Aroclor-1260				CAS #: 11096-82-5			
4.310	4.310	0.000	11829528 1000.00	896	80.00- 120.00	100.00	
4.434	4.435	-0.001	14463261 1000.00	929	102.24- 142.24	122.26	
4.700	4.701	-0.001	10870680 1000.00	918	71.29- 111.29	91.89	
4.873	4.874	-0.001	11264681 1000.00	923	74.18- 114.18	95.23	
5.020	5.021	-0.001	25089329 1000.00	946	190.27- 230.27	212.09	
Average of Peak Amounts =				922			

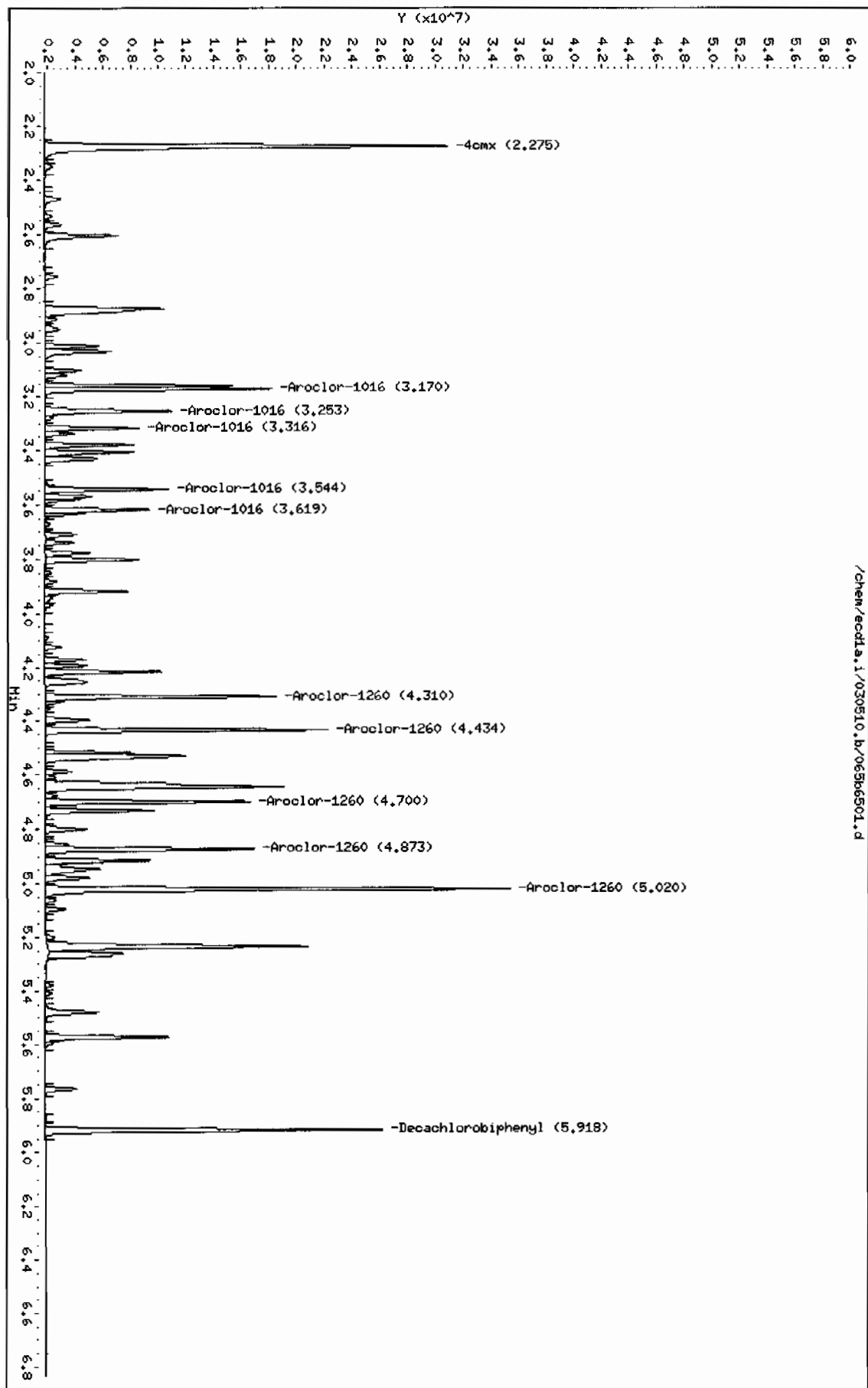
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecda.i/030510.b/065b501.d
Date : 05-MAR-2010 18:44
Client ID: AR166007
Sample Info: 1MAR100222-60 07

Column phase: CLP2

Instrument: ecda.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1.i/030510.b/65b6501.d
Operator: YS1
Injection Date: 05-MAR-2010 18:44
Instrument: ecdl1.i
Client Sample ID: AR166007

Y (x10⁷)

4cmx

Araclo-1260

Decachlorobiphenyl

Araclo-1016

Araclo-1260

Araclo-1260

Araclo-1260

Araclo-1260

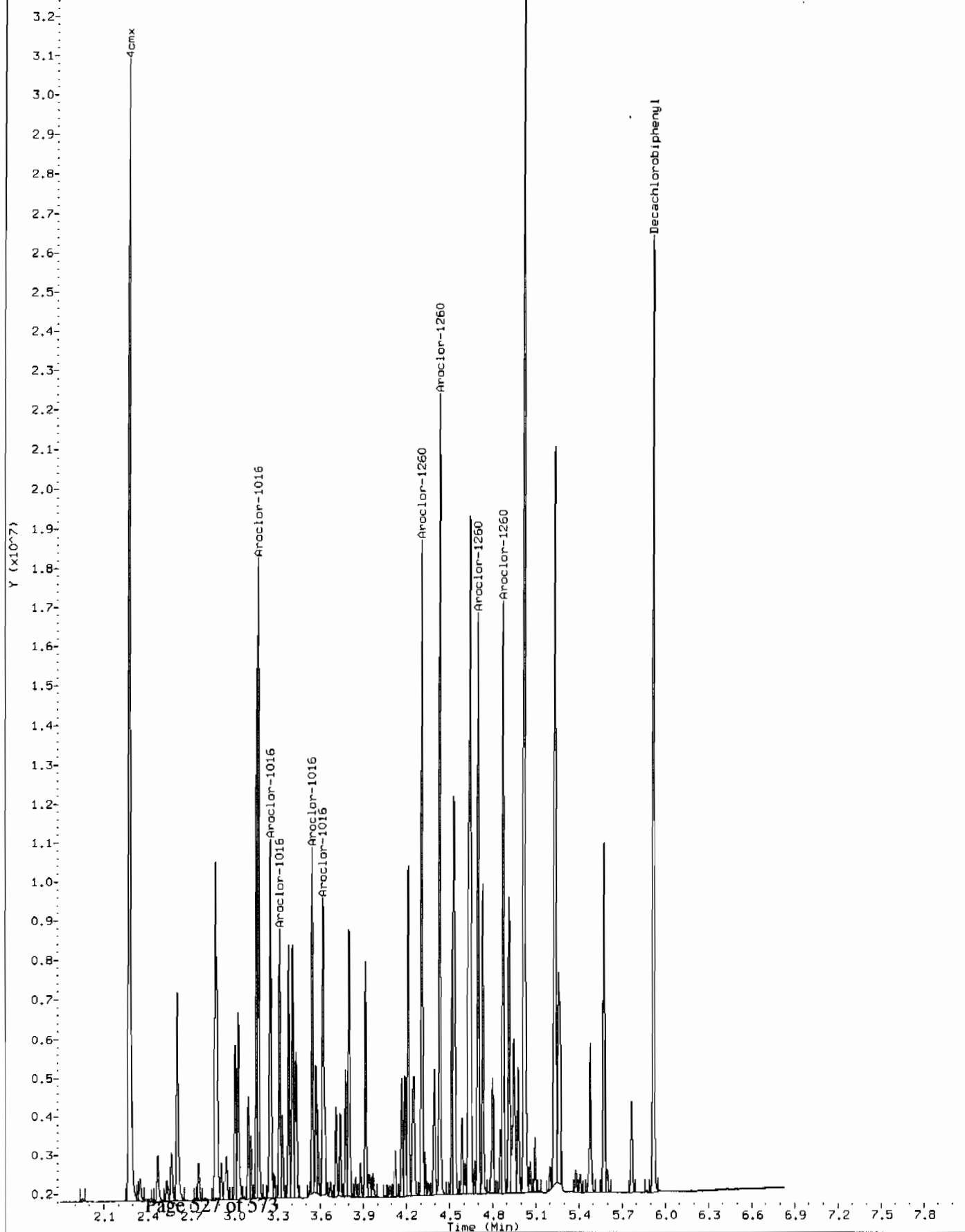
Araclo-1016

Araclo-1016

Araclo-1016

Araclo-1016

Comment: Before manual integration
Data File: /chem/ecdl.i/030510.b/Orig-065b6501.d
Operator: YS1
Injection Date: 05-MAR-2010 18:44
Instrument: ecdla.i
Client Sample ID: AR166007



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/072f7201.d

Lab Smp Id: WAR100222-60 08

Client Smp ID: AR166008

Inj Date : 05-MAR-2010 20:12

Operator : YSL

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 08

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m

Meth Date : 08-Mar-2010 06:26 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 72

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			
1.916	1.916	0.000	39636386 100.000	92.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.221	5.224	-0.003	29418055 100.000	95.7	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
2.369	2.369	0.000	13520709 1000.00	879	80.00- 120.00	100.00	
2.656	2.656	0.000	17964736 1000.00	985	112.87- 152.87	132.87	
2.736	2.737	-0.001	11185124 1000.00	927	62.73- 102.73	82.73	
2.773	2.774	-0.001	6754394 1000.00	952	29.96- 69.96	49.96	
2.984	2.984	0.000	8627817 1000.00	968	43.81- 83.81	63.81	
Average of Peak Amounts =				942			

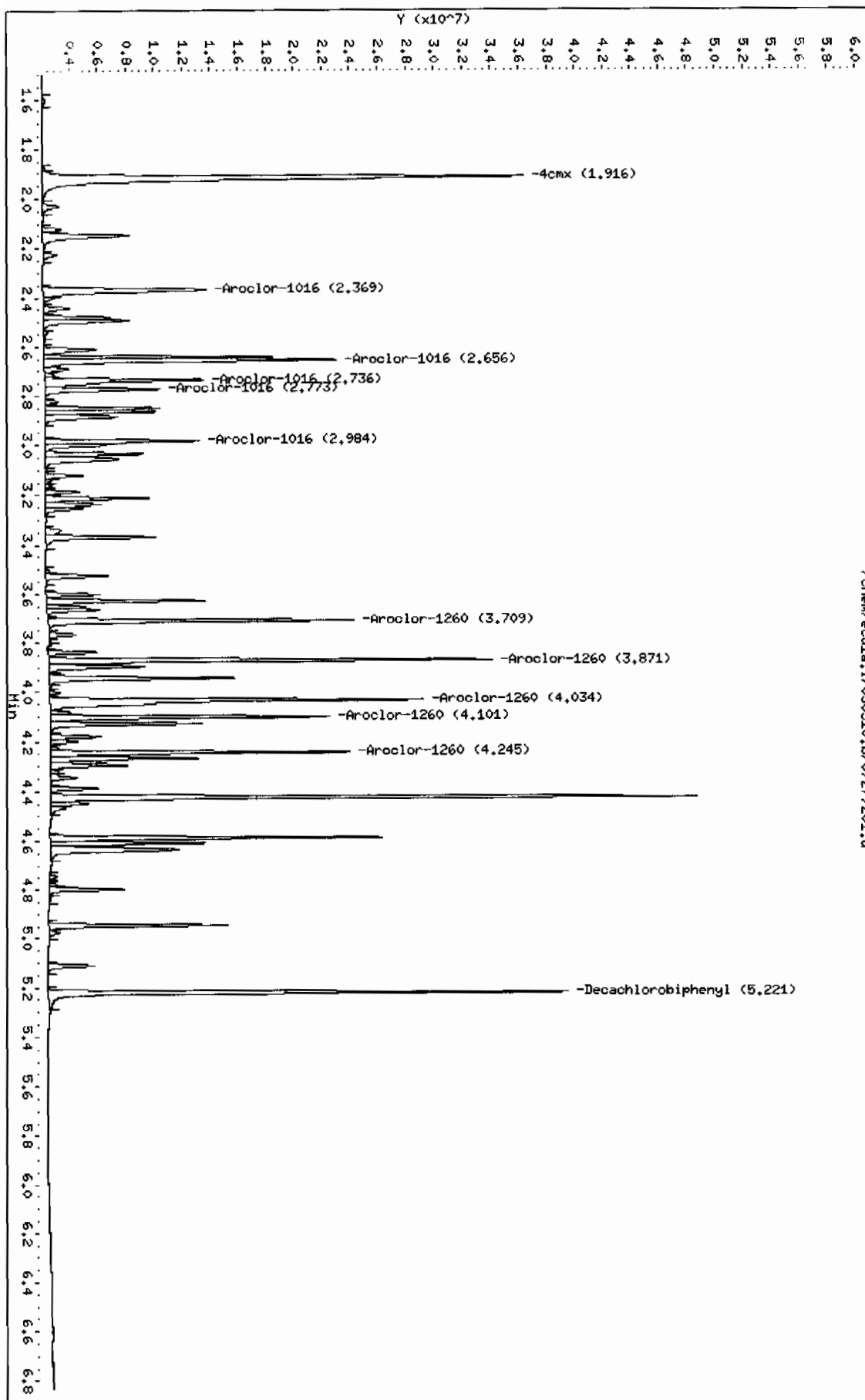
7 Aroclor-1260				CAS #: 11096-82-5			
3.709	3.710	-0.001	16465774 1000.00	964	80.00- 120.00	100.00	
3.871	3.874	-0.003	24563151 1000.00	1040	129.18- 169.18	149.18	
4.034	4.035	-0.001	26293110 1000.00	1050	139.68- 179.68	159.68	
4.101	4.104	-0.003	14766574 1000.00	1020	69.68- 109.68	89.68	
4.245	4.246	-0.001	15361281 1000.00	1060	73.29- 113.29	93.29	
Average of Peak Amounts =				1.03e+03			

Data File: /chem/ecdl1.i/030510.b/072f7201.d
Date : 05-MAR-2010 20:12
Client ID: PR16008
Sample Info: IMR100222-60 08

Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/030510.b/072f7201.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030510.b/072b7201.d

Lab Smp Id: WAR100222-60 08 Client Smp ID: AR166008

Inj Date : 05-MAR-2010 20:12

Operator : YS1 Inst ID: ecdla.i

Smp Info : |WAR100222-60 08

Misc Info :

Comment :

Method : /chem/ecdla.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 08-Mar-2010 06:25 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d

Als bottle: 72 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		
2.275	2.275	0.000	27095263 100.000	91.1	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.916	5.919	-0.003	18590942 100.000	87.9	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.170	3.170	0.000	11815730 1000.00	924	80.00- 120.00	100.00 (M)
3.253	3.254	-0.001	7918678 1000.00	888	46.23- 86.23	67.02
3.316	3.317	-0.001	4940691 1000.00	914	21.48- 61.48	41.81
3.543	3.544	-0.001	6419395 1000.00	928	33.87- 73.87	54.33
3.619	3.619	0.000	6011692 1000.00	936	29.74- 69.74	50.88
Average of Peak Amounts =				918		

7 Aroclor-1260				CAS #: 11096-82-5		
4.309	4.310	-0.001	11925346 1000.00	903	80.00- 120.00	100.00
4.434	4.435	-0.001	14592098 1000.00	937	102.26- 142.26	122.36
4.699	4.701	-0.002	10962044 1000.00	926	71.89- 111.89	91.92
4.873	4.874	-0.001	11404794 1000.00	935	75.23- 115.23	95.63
5.020	5.021	-0.001	25479994 1000.00	960	192.09- 232.09	213.66
Average of Peak Amounts =				932		

QC Flag Legend

M - Compound response manually integrated.

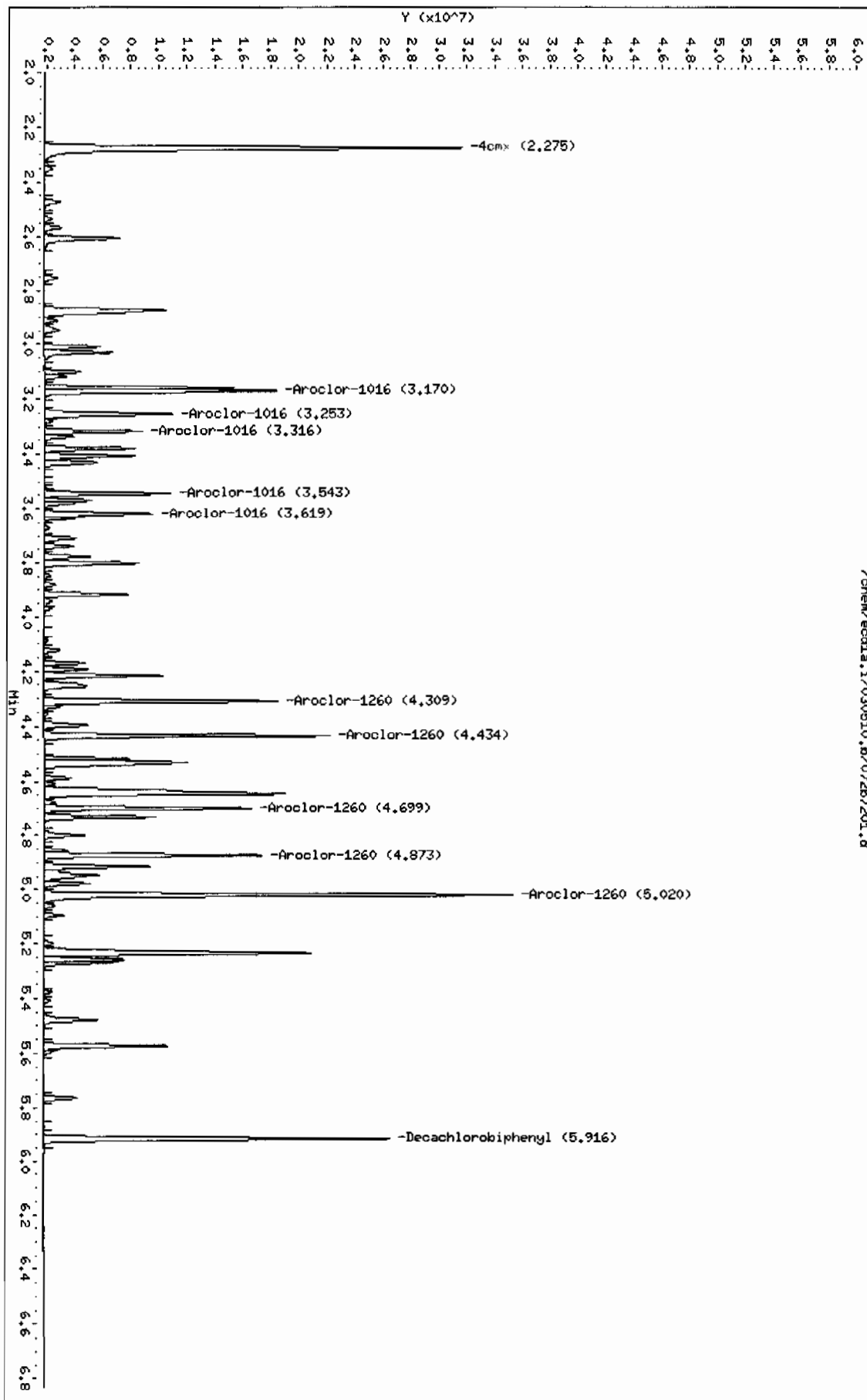
Data File: /chem/ecdtla.i/030510.b/072b7201.d
Date: 05-MAR-2010 20:12
Client ID: AR166008
Sample Info: 1MAR100222-60 08

Instrument: ecdtla.i

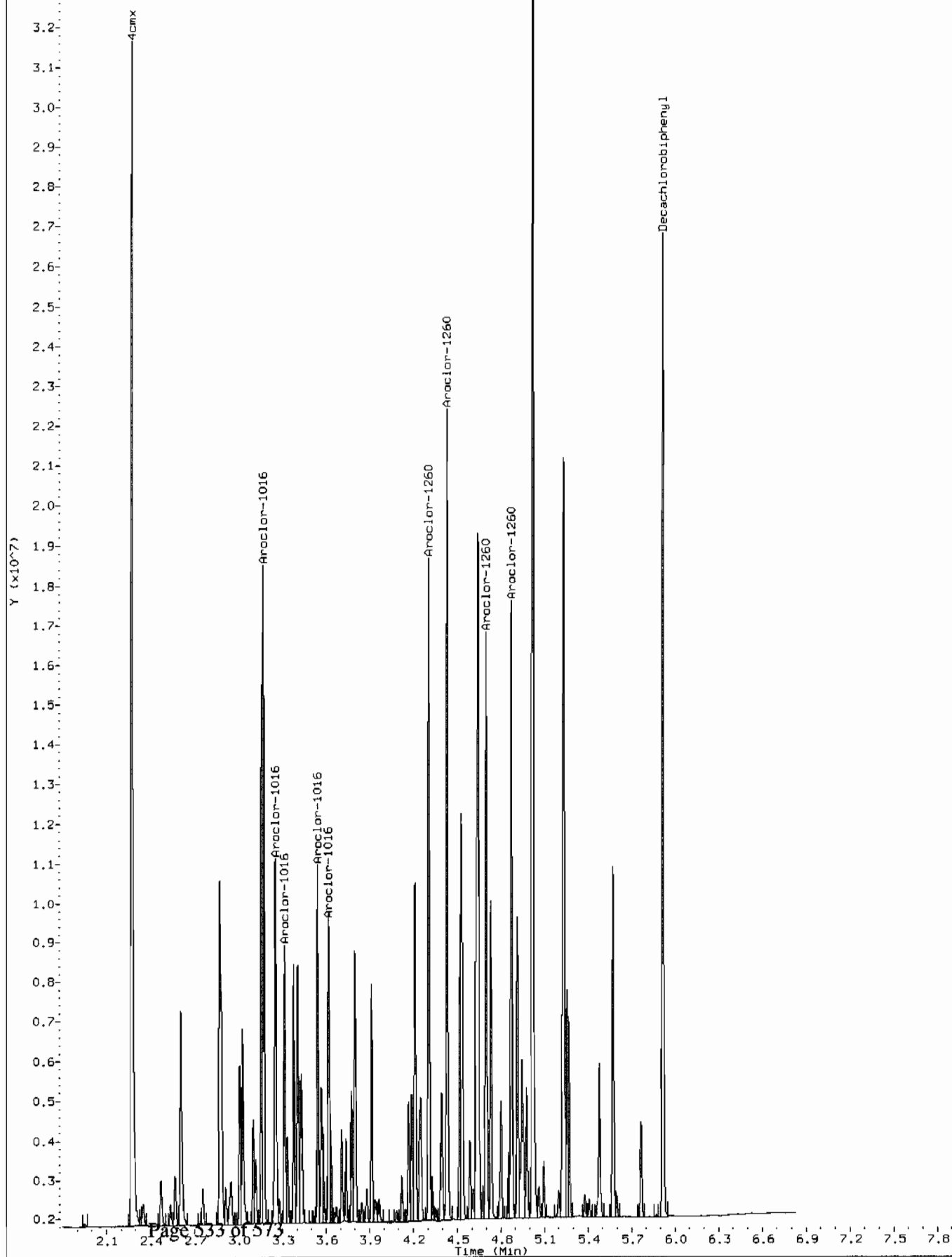
Page 1

Column phase: CLP2

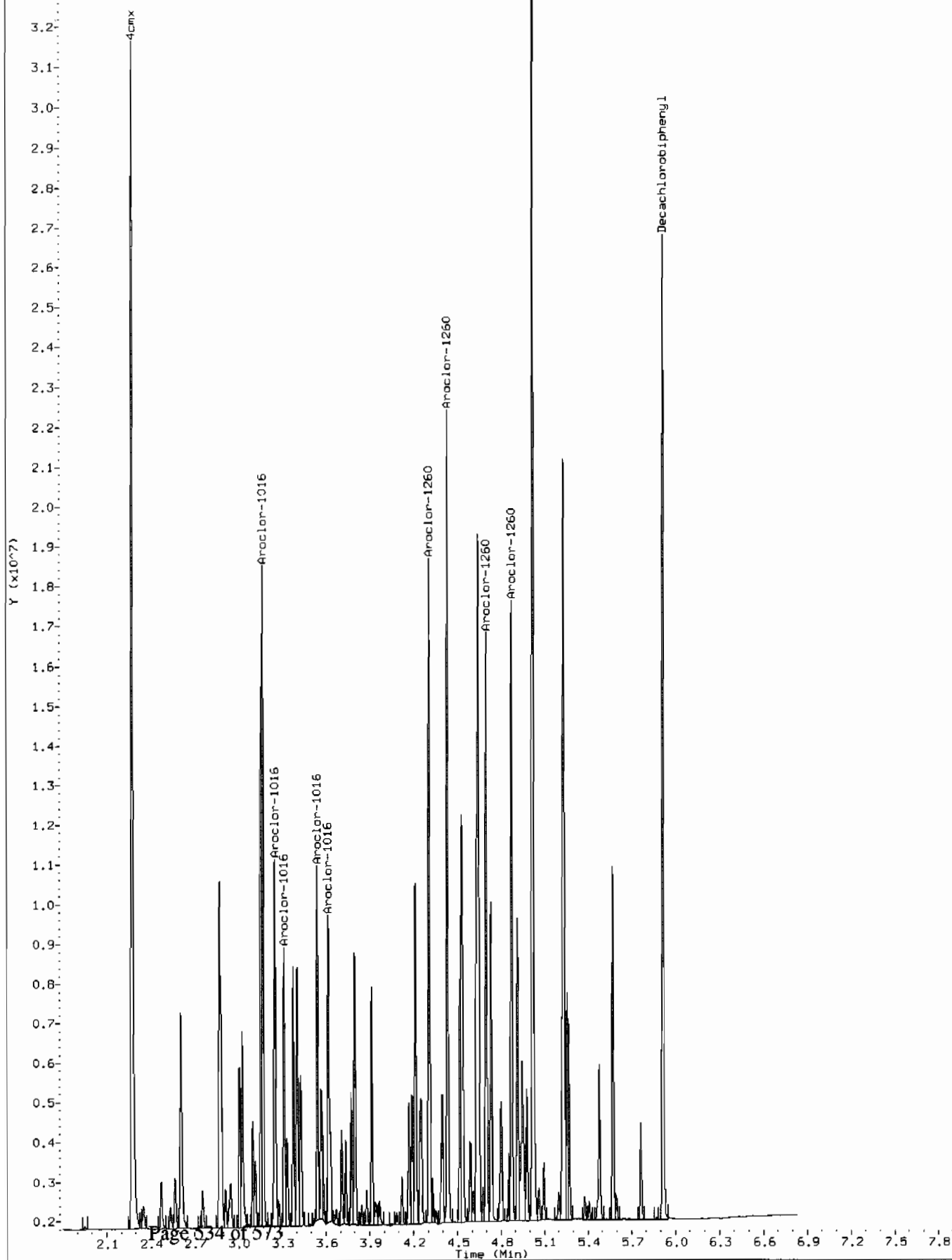
Operator: YSI
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030510.b/072b7201.d
Operator: YS1
Injection Date: 05-MAR-2010 20:12
Instrument: ecdl1a.i
Client Sample ID: AR166008



Comment: Before manual integration
Data File: /chem/ecdl1.i/030510.b/Orig-072b7201.d
Operator: YSl
Injection Date: 05-MAR-2010 20:12
Instrument: ecd1a.i
Client Sample ID: AR166008



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.: 10-2071

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.92			DCB: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
01	PIBLK01	WAR100219-99	02/22/10	0559		
02	ZZZZZ	ZZZZZ	02/22/10	0610		
03	ZZZZZ	ZZZZZ	02/22/10	0620		
04	DDTANALOGSTD	WAR091219-DD	02/22/10	0631		
05	AR123201	WAR100104-32	02/22/10	0641		
06	AR122101	WAR100104-21	02/22/10	0652		
07	AR126201	WAR100104-62	02/22/10	0703		
08	AR166001	WAR100222-01	02/22/10	0713	1.92	5.23
09	AR166002	WAR100222-02	02/22/10	0724	1.92	5.23
10	AR166003	WAR100222-03	02/22/10	0734	1.92	5.23
11	AR166004	WAR100222-04	02/22/10	0745	1.92	5.23
12	AR166005	IAR100104-01	02/22/10	0755	1.92	5.23
13	AR166001	WAR100203-60	02/22/10	0806	1.92	5.23
14	AR125401	WAR100222-05	02/22/10	0816		
15	AR125402	WAR100222-06	02/22/10	0827		
16	AR125403	WAR100222-07	02/22/10	0837		
17	AR125404	WAR100222-08	02/22/10	0848		
18	AR125405	IAR100219-02	02/22/10	0859		
19	AR125401	WAR100219-54	02/22/10	0909		
20	AR124201	WAR100222-09	02/22/10	0920		
21	AR124202	WAR100222-10	02/22/10	0930		
22	AR124203	WAR100222-11	02/22/10	0941		
23	AR124204	WAR100222-12	02/22/10	0951		
24	AR124205	IAR100219-01	02/22/10	1002		
25	AR124201	WAR100219-42	02/22/10	1012		
26	AR124801	WAR100222-13	02/22/10	1023		
27	AR124802	WAR100222-14	02/22/10	1033		
28	AR124803	WAR100222-15	02/22/10	1044		
29	AR124805	IAR100211-01	02/22/10	1054		
30	AR124804	WAR100222-16	02/22/10	1105		
31	AR124801	WAR091217-48	02/22/10	1116		
32	AR126801	WAR100222-17	02/22/10	1126		

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071

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.

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.: 10-2071

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/22/10 0559	2.29	5.93	
02	ZZZZZ	ZZZZZ	02/22/10 0610	2.29	5.94	
03	ZZZZZ	ZZZZZ	02/22/10 0620	2.29	5.94	
04	DDTANALOGSTD	WAR091219-DD	02/22/10 0631			
05	AR123201	WAR100104-32	02/22/10 0641			
06	AR122101	WAR100104-21	02/22/10 0652			
07	AR126201	WAR100104-62	02/22/10 0703			
08	AR166001	WAR100222-01	02/22/10 0713	2.29	5.94	
09	AR166002	WAR100222-02	02/22/10 0724	2.29	5.94	
10	AR166003	WAR100222-03	02/22/10 0734	2.29	5.94	
11	AR166004	WAR100222-04	02/22/10 0745	2.29	5.94	
12	AR166005	IAR100104-01	02/22/10 0755	2.29	5.94	
13	AR166001	WAR100203-60	02/22/10 0806	2.29	5.94	
14	AR125401	WAR100222-05	02/22/10 0816			
15	AR125402	WAR100222-06	02/22/10 0827			
16	AR125403	WAR100222-07	02/22/10 0837			
17	AR125404	WAR100222-08	02/22/10 0848			
18	AR125405	IAR100219-02	02/22/10 0859			
19	AR125401	WAR100219-54	02/22/10 0909			
20	AR124201	WAR100222-09	02/22/10 0920			
21	AR124202	WAR100222-10	02/22/10 0930			
22	AR124203	WAR100222-11	02/22/10 0941			
23	AR124204	WAR100222-12	02/22/10 0951			
24	AR124205	IAR100219-01	02/22/10 1002			
25	AR124201	WAR100219-42	02/22/10 1012			
26	AR124801	WAR100222-13	02/22/10 1023			
27	AR124802	WAR100222-14	02/22/10 1033			
28	AR124803	WAR100222-15	02/22/10 1044			
29	AR124805	IAR100211-01	02/22/10 1054			
30	AR124804	WAR100222-16	02/22/10 1105			
31	AR124801	WAR091217-48	02/22/10 1116			
32	AR126801	WAR100222-17	02/22/10 1126			

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29		DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR126802	WAR100222-18	02/22/10	1137	
02	AR126803	WAR100222-19	02/22/10	1147	
03	AR126804	WAR100222-20	02/22/10	1158	
04	AR126805	IAR100104-05	02/22/10	1208	
05	AR126801	WAR100107-68	02/22/10	1219	
06	PIBLK02	WAR100219-99	02/22/10	1229	2.29 5.94
07	ZZZZZ	ZZZZZ	02/22/10	1240	2.29 5.94
08	ZZZZZ	ZZZZZ	02/22/10	1250	2.29 5.94
09	ZZZZZ	ZZZZZ	02/22/10	1301	2.29 5.94
10	ZZZZZ	ZZZZZ	02/22/10	1314	2.29 5.94
11	ZZZZZ	ZZZZZ	02/22/10	1326	2.29 5.94
12	ZZZZZ	ZZZZZ	02/22/10	1339	2.29 5.93
13	ZZZZZ	ZZZZZ	02/22/10	1351	2.29 5.93
14	ZZZZZ	ZZZZZ	02/22/10	1404	2.29 5.94
15	ZZZZZ	ZZZZZ	02/22/10	1417	2.29 5.93
16	ZZZZZ	ZZZZZ	02/22/10	1430	2.29 5.93
17	AR166002	WAR100203-60	02/22/10	1442	2.29 5.94
18	PIBLK03	WAR100219-99	02/22/10	1453	2.29 5.94
19	ZZZZZ	ZZZZZ	02/22/10	1503	2.29 5.94
20	ZZZZZ	ZZZZZ	02/22/10	1516	2.29 5.93
21	ZZZZZ	ZZZZZ	02/22/10	1528	2.29 5.93
22	ZZZZZ	ZZZZZ	02/22/10	1541	2.29 5.94
23	ZZZZZ	ZZZZZ	02/22/10	1554	2.29 5.93
24	ZZZZZ	ZZZZZ	02/22/10	1606	2.29 5.93
25	ZZZZZ	ZZZZZ	02/22/10	1619	2.29 5.94
26	ZZZZZ	ZZZZZ	02/22/10	1632	2.29 5.93
27	ZZZZZ	ZZZZZ	02/22/10	1644	2.29 5.93
28	ZZZZZ	ZZZZZ	02/22/10	1657	2.29 5.93
29	AR166003	WAR100203-60	02/22/10	1710	2.29 5.93
30	PIBLK04	WAR100219-99	02/22/10	1722	2.29 5.93
31	ZZZZZ	ZZZZZ	02/22/10	1735	2.29 5.93
32	ZZZZZ	ZZZZZ	02/22/10	1748	2.29 5.94

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071

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	03/05/10	0557	1.92	5.22	
02	AR166001	WAR100222-60	03/05/10	0608	1.92	5.22	
03	AR125401	WAR100219-54	03/05/10	0618			
04	AR124201	WAR100219-42	03/05/10	0629			
05	AR124801	WAR100223-48	03/05/10	0639			
06	AR126801	WAR100107-68	03/05/10	0650			
07	AR123201	WAR100104-32	03/05/10	0700			
08	AR122101	WAR100104-21	03/05/10	0711			
09	AR126201	WAR100104-62	03/05/10	0721			
10	DDTANALOGSTD	WAR091219-DD	03/05/10	0732			
11	PIBLK02	WAR100219-99	03/05/10	0742	1.92	5.22	
12	ZZZZZ	ZZZZZ	03/05/10	0753	1.92	5.22	
13	ZZZZZ	ZZZZZ	03/05/10	0805	1.92	5.22	
14	AR166002	WAR100222-60	03/05/10	0818	1.92	5.22	
15	ZZZZZ	ZZZZZ	03/05/10	0828	1.92	5.22	
16	ZZZZZ	ZZZZZ	03/05/10	0839	1.92	5.22	
17	ZZZZZ	ZZZZZ	03/05/10	0851	1.92	5.22	
18	ZZZZZ	ZZZZZ	03/05/10	0904	1.92	5.22	
19	ZZZZZ	ZZZZZ	03/05/10	0917	1.94	5.23	
20	ZZZZZ	ZZZZZ	03/05/10	0929	1.94	5.23	
21	ZZZZZ	ZZZZZ	03/05/10	0942	1.94	5.23	
22	ZZZZZ	ZZZZZ	03/05/10	0954	1.94	5.23	
23	ZZZZZ	ZZZZZ	03/05/10	1007	1.92	5.22	
24	AR166003	WAR100222-60	03/05/10	1020	1.92	5.22	
25	PIBLK04	WAR100219-99	03/05/10	1030	1.92	5.22	
26	ZZZZZ	ZZZZZ	03/05/10	1041	1.93	5.23	
27	ZZZZZ	ZZZZZ	03/05/10	1053	1.93	5.23	
28	ZZZZZ	ZZZZZ	03/05/10	1106	1.93	5.22	
29	ZZZZZ	ZZZZZ	03/05/10	1118	1.93	5.23	
30	ZZZZZ	ZZZZZ	03/05/10	1131	1.94	5.23	
31	ZZZZZ	ZZZZZ	03/05/10	1144	1.94	5.23	
32	ZZZZZ	ZZZZZ	03/05/10	1156	1.94	5.23	

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071

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	03/05/10	1209	1.94		5.23	
02	ZZZZZ	03/05/10	1221	1.94		5.23	
03	ZZZZZ	03/05/10	1234	1.94		5.23	
04	AR166004	03/05/10	1247	1.92		5.22	
05	PIBLK05	03/05/10	1257	1.92		5.22	
06	ZZZZZ	03/05/10	1308	1.92		5.22	
07	ZZZZZ	03/05/10	1320	1.92		5.22	
08	ZZZZZ	03/05/10	1333	1.92		5.22	
09	ZZZZZ	03/05/10	1345	1.92		5.22	
10	ZZZZZ	03/05/10	1358	1.92		5.22	
11	ZZZZZ	03/05/10	1411	1.92		5.22	
12	ZZZZZ	03/05/10	1423	1.92		5.22	
13	AR166005	03/05/10	1436	1.92		5.22	
14	PIBLK06	03/05/10	1446	1.92		5.22	
15	PBLK01	03/05/10	1457	1.92		5.22	
16	PBLK01LCS	03/05/10	1509	1.92		5.22	
17	ZZZZZ	03/05/10	1522	1.92		5.22	
18	ZZZZZ	03/05/10	1535	1.92		5.22	
19	ZZZZZ	03/05/10	1547	1.92		5.22	
20	ZZZZZ	03/05/10	1600	1.92		5.22	
21	ZZZZZ	03/05/10	1612	1.92		5.22	
22	ZZZZZ	03/05/10	1625	1.92		5.22	
23	ZZZZZ	03/05/10	1638	1.92		5.22	
24	AR166006	03/05/10	1650	1.92		5.22	
25	PIBLK07	03/05/10	1703	1.92		5.22	
26	ZZZZZ	03/05/10	1716	1.92		5.22	
27	ZZZZZ	03/05/10	1728	1.92		5.22	
28	ZZZZZ	03/05/10	1741	1.92		5.22	
29	ZZZZZ	03/05/10	1753	1.92		5.22	
30	ZZZZZ	03/05/10	1806	1.92		5.22	
31	ZZZZZ	03/05/10	1819	1.92		5.22	
32	ZZZZZ	03/05/10	1831	1.92		5.22	

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.: 10-2071

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	LAB	DATE	TIME	S1	DCB
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
01	AR166007	WAR100222-60	03/05/10	1844	1.92 5.22
02	PIBLK08	WAR100219-99	03/05/10	1856	1.92 5.22
03	ZZZZZ	ZZZZZ	03/05/10	1909	1.92 5.22
04	ZZZZZ	ZZZZZ	03/05/10	1922	1.92 5.22
05	RE15-10-7902	248029001	03/05/10	1934	1.92 5.22
06	RE15-10-7901	248029002	03/05/10	1947	1.92 5.22
07	RE15-10-8067	248029009	03/05/10	2000	1.92 5.22
08	AR166008	WAR100222-60	03/05/10	2012	1.92 5.22
09	PIBLK09	WAR100219-99	03/05/10	2025	1.92 5.22
10					
11					
12					
13					
14					
15					
16					
17					
18					
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21					
22					
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24					
25					
26					
27					
28					
29					
30					
31					
32					

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2071

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 : 2.27			DCB: 5.92			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	03/05/10	0557	2.27	5.92
02	AR166001	WAR100222-60	03/05/10	0608	2.28	5.92
03	AR125401	WAR100219-54	03/05/10	0618		
04	AR124201	WAR100219-42	03/05/10	0629		
05	AR124801	WAR100223-48	03/05/10	0639		
06	AR126801	WAR100107-68	03/05/10	0650		
07	AR123201	WAR100104-32	03/05/10	0700		
08	AR122101	WAR100104-21	03/05/10	0711		
09	AR126201	WAR100104-62	03/05/10	0721		
10	DDTANALOGSTD	WAR091219-DD	03/05/10	0732		
11	PIBLK02	WAR100219-99	03/05/10	0742	2.28	5.92
12	ZZZZZ	ZZZZZ	03/05/10	0753	2.28	5.92
13	ZZZZZ	ZZZZZ	03/05/10	0805	2.28	5.92
14	AR166002	WAR100222-60	03/05/10	0818	2.28	5.92
15	PIBLK03	WAR100219-99	03/05/10	0828	2.28	5.92
16	ZZZZZ	ZZZZZ	03/05/10	0839	2.28	5.92
17	ZZZZZ	ZZZZZ	03/05/10	0851	2.28	5.92
18	ZZZZZ	ZZZZZ	03/05/10	0904	2.28	5.92
19	ZZZZZ	ZZZZZ	03/05/10	0917	2.30	5.92
20	ZZZZZ	ZZZZZ	03/05/10	0929	2.30	5.92
21	ZZZZZ	ZZZZZ	03/05/10	0942	2.29	5.92
22	ZZZZZ	ZZZZZ	03/05/10	0954	2.29	5.92
23	ZZZZZ	ZZZZZ	03/05/10	1007	2.27	5.92
24	AR166003	WAR100222-60	03/05/10	1020	2.28	5.92
25	PIBLK04	WAR100219-99	03/05/10	1030	2.28	5.92
26	ZZZZZ	ZZZZZ	03/05/10	1041	2.29	5.92
27	ZZZZZ	ZZZZZ	03/05/10	1053	2.29	5.92
28	ZZZZZ	ZZZZZ	03/05/10	1106	2.29	5.92
29	ZZZZZ	ZZZZZ	03/05/10	1118	2.29	5.92
30	ZZZZZ	ZZZZZ	03/05/10	1131	2.30	5.92
31	ZZZZZ	ZZZZZ	03/05/10	1144	2.29	5.92
32	ZZZZZ	ZZZZZ	03/05/10	1156	2.29	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.: 10-2071

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 : 2.27				DCB: 5.92			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	ZZZZZ	03/05/10	1209	2.29	5.92		
02	ZZZZZ	03/05/10	1221	2.29	5.92		
03	ZZZZZ	03/05/10	1234	2.29	5.92		
04	AR166004	03/05/10	1247	2.28	5.92		
05	PIBLK05	03/05/10	1257	2.28	5.92		
06	ZZZZZ	03/05/10	1308	2.28	5.92		
07	ZZZZZ	03/05/10	1320	2.28	5.92		
08	ZZZZZ	03/05/10	1333	2.27	5.92		
09	ZZZZZ	03/05/10	1345	2.28	5.92		
10	ZZZZZ	03/05/10	1358	2.28	5.92		
11	ZZZZZ	03/05/10	1411	2.27	5.92		
12	ZZZZZ	03/05/10	1423	2.28	5.92		
13	AR166005	03/05/10	1436	2.27	5.92		
14	PIBLK06	03/05/10	1446	2.27	5.92		
15	PBLK01	03/05/10	1457	2.28	5.92		
16	PBLK01LCS	03/05/10	1509	2.28	5.92		
17	ZZZZZ	03/05/10	1522	2.28	5.92		
18	ZZZZZ	03/05/10	1535	2.28	5.92		
19	ZZZZZ	03/05/10	1547	2.27	5.92		
20	ZZZZZ	03/05/10	1600	2.28	5.92		
21	ZZZZZ	03/05/10	1612	2.28	5.92		
22	ZZZZZ	03/05/10	1625	2.28	5.92		
23	ZZZZZ	03/05/10	1638	2.28	5.92		
24	AR166006	03/05/10	1650	2.27	5.92		
25	PIBLK07	03/05/10	1703	2.28	5.92		
26	ZZZZZ	03/05/10	1716	2.27	5.92		
27	ZZZZZ	03/05/10	1728	2.27	5.92		
28	ZZZZZ	03/05/10	1741	2.28	5.92		
29	ZZZZZ	03/05/10	1753	2.28	5.92		
30	ZZZZZ	03/05/10	1806	2.28	5.92		
31	ZZZZZ	03/05/10	1819	2.27	5.92		
32	ZZZZZ	03/05/10	1831	2.27	5.92		

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.: 10-2071

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 : 2.27				DCB: 5.92			
EPA	LAB	DATE	TIME	SI	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	AR166007	WAR100222-60	03/05/10	1844	2.28	5.92	
02	PIBLK08	WAR100219-99	03/05/10	1856	2.28	5.92	
03	ZZZZZ	ZZZZZ	03/05/10	1909	2.28	5.92	
04	ZZZZZ	ZZZZZ	03/05/10	1922	2.27	5.92	
05	RE15-10-7902	248029001	03/05/10	1934	2.28	5.92	
06	RE15-10-7901	248029002	03/05/10	1947	2.28	5.92	
07	RE15-10-8067	248029009	03/05/10	2000	2.28	5.92	
08	AR166008	WAR100222-60	03/05/10	2012	2.27	5.92	
09	PIBLK09	WAR100219-99	03/05/10	2025	2.27	5.92	
10							
11							
12							
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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: 10-2071

Client ID: LCS for batch 961046

Lab Sample ID: 1202061360

Data File: 048f4801.d

Data File: 048b4801.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-MAR-10 15:09

Analyzed: 05-MAR-10 15:09

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.9
Column 1	1	2.37	2.34 - 2.4	25.8		ug/kg	
	2	2.66	2.63 - 2.69	27.3		ug/kg	
	3	2.74	2.71 - 2.77	26.7		ug/kg	
	4	2.77	2.74 - 2.8	27.3		ug/kg	
	5	2.98	2.95 - 3.01	28		ug/kg	
					27		
Column 2	1	3.17	3.14 - 3.2	27.4		ug/kg	
	2	3.25	3.22 - 3.28	25.9		ug/kg	
	3	3.32	3.29 - 3.35	25.6		ug/kg	
	4	3.54	3.51 - 3.57	26.7		ug/kg	
	5	3.62	3.59 - 3.65	26.8		ug/kg	
					26.5		
Aroclor-1260							10.4
Column 1	1	3.71	3.68 - 3.74	30.5		ug/kg	
	2	3.87	3.84 - 3.9	33.1		ug/kg	
	3	4.03	4.01 - 4.07	33.9		ug/kg	
	4	4.1	4.07 - 4.13	32.8		ug/kg	
	5	4.24	4.22 - 4.28	33.7		ug/kg	
					32.8		
Column 2	1	4.31	4.28 - 4.34	28.1		ug/kg	
	2	4.43	4.41 - 4.47	29.7		ug/kg	
	3	4.7	4.67 - 4.73	29.3		ug/kg	
	4	4.87	4.84 - 4.9	29.7		ug/kg	
	5	5.02	4.99 - 5.05	31		ug/kg	
					29.6		

Identification Summary

Page 1 of 1

SDG Number: 10-2071

Client ID: RE15-10-7902

Lab Sample ID: 248029001

Data File: 069f6901.d

Data File: 069b6901.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-MAR-10 19:34

Analyzed: 05-MAR-10 19:34

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							16
Column 1	1	3.21	3.18 - 3.24	7.02		ug/kg	
	2	3.37	3.34 - 3.4	7.29		ug/kg	
	3	3.6	3.57 - 3.63	7.71		ug/kg	
	4	3.76	3.74 - 3.8	9.48		ug/kg	
	5	3.87	3.84 - 3.9	10.1		ug/kg	
					8.32		
Column 2	1	3.38	3.35 - 3.41	4.52		ug/kg	
	2	3.8	3.77 - 3.83	8.58		ug/kg	
	3	3.92	3.89 - 3.95	6.9		ug/kg	
	4	4.19	4.16 - 4.22	7.53		ug/kg	
	5	4.33	4.3 - 4.36	7.95		ug/kg	
					7.09		
Aroclor-1260							20.5
Column 1	1	3.71	3.68 - 3.74	6.52		ug/kg	
	2	3.87	3.84 - 3.9	6.12		ug/kg	
	3	4.03	4.01 - 4.07	8.6		ug/kg	
	4	4.1	4.07 - 4.13	2.01		ug/kg	
	5	4.24	4.22 - 4.28	3.55		ug/kg	
					5.36		
Column 2	1	4.31	4.28 - 4.34	6.09		ug/kg	
	2	4.43	4.41 - 4.47	5.36		ug/kg	
	3	4.7	4.67 - 4.73	3.81		ug/kg	
	4	4.87	4.84 - 4.9	3.09		ug/kg	
	5	5.02	4.99 - 5.05	3.47		ug/kg	
					4.36		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2071

Matrix: SOIL

Lab Sample ID: 1202061359

Client Sample: QC for batch 961046

Client: LANL010

Project: QC

Client ID: MB for batch 961046

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 961047

Inst: ECD1A.1

Dilution: 1

Run Date: 03/05/2010 14:57

Analyst: YSI

Inj. Vol: 1 uL

Prep Date: 03/04/2010 22:58

Aliquot: 30 g

Final Volume: 1 mL

Data File: 047f4701-1.d

Column: 1 CLP1

Level: LOW

047b4701-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 TNJ VOL
Data file : /chem/ecdla.i/030510.b/047f4701-3.d
Lab Smp Id: 1202061359 Client Smp ID: PBLK01
Inj Date : 05-MAR-2010 14:57
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202061359|1|
Misc Info : |ECD82P_1S|961047|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/030510.b/ECD1-F-8082-022210.m
Meth Date : 08-Mar-2010 06:26 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 47 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2071.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

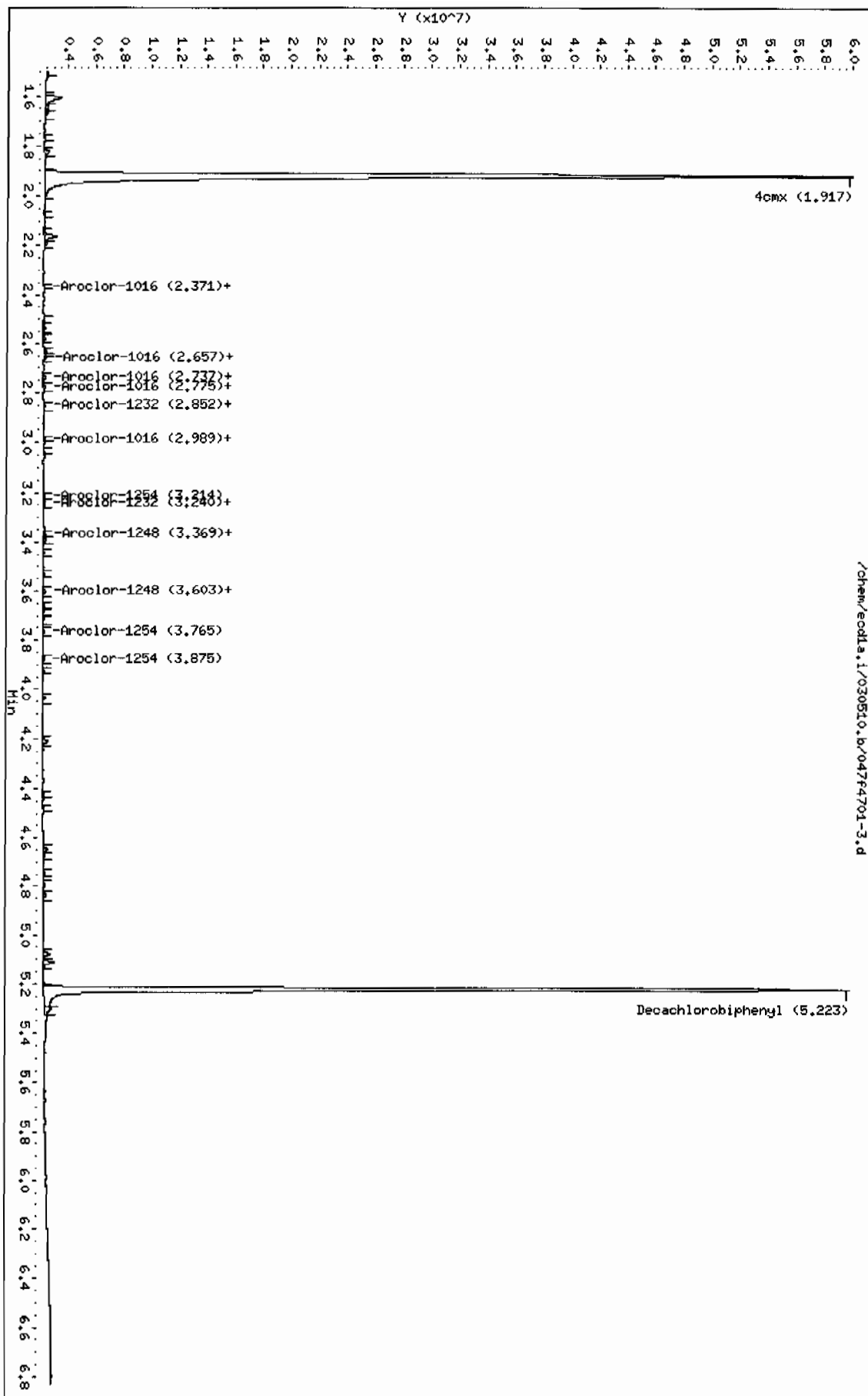
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
1.917	1.916	0.001	64894693	150.695	5.0 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.223	5.224	-0.001	47990429	156.173	5.2 80.00- 120.00	100.00

Data File: /chem/eodla.1/030510.b/047f4701-3.d
 Date: 05-MAR-2010 14:57
 Client ID: PLK01
 Sample Info: 1120206135911
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: eodla.1
 Operator: YS1
 Column diameter: 0.25



Data File: /chem/ecdl1a.i/030510.b/047b4701-3.d
 Report Date: 08-Mar-2010 10:42

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/030510.b/047b4701-3.d
 Lab Smp Id: 1202061359 Client Smp ID: PBLK01
 Inj Date : 05-MAR-2010 14:57
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202061359|1|
 Misc Info : |ECD82P_1S|961047|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m
 Meth Date : 08-Mar-2010 07:35 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 47 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2071.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

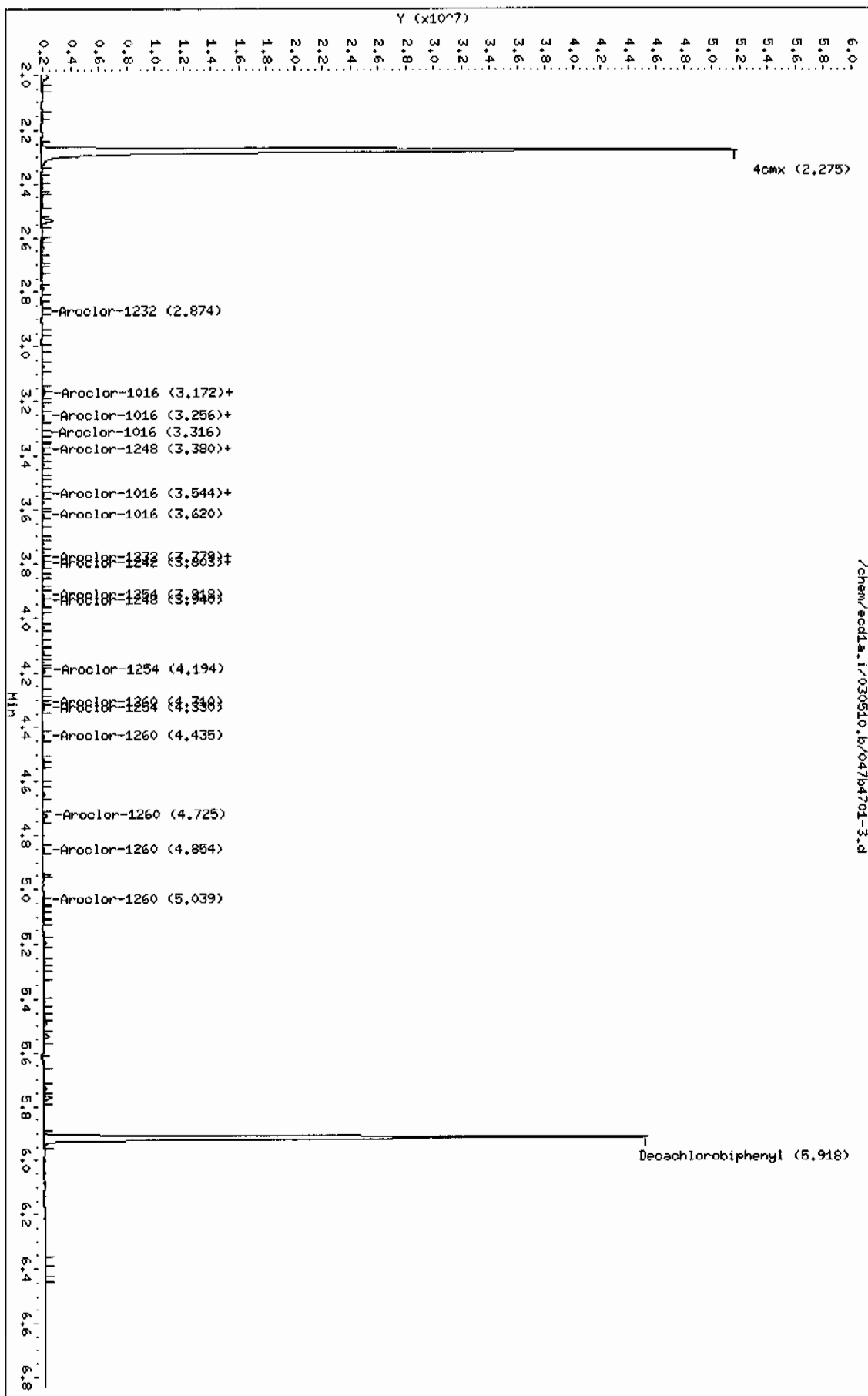
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
2.275	2.275	0.000	44588828 149.930	5.0	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.918	5.919	.-0.001	32766042 154.923	5.2	80.00- 120.00	100.00

Data File: /chem/ecdl1.i/030510.b/047b4701-3.d
 Date: 05-MAR-2010 14:57
 Client ID: PBLK01
 Sample Info: 1120206135911
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdl1.i
 Operator: YSL
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2071

Lab Sample ID: 1202061360

Client Sample: QC for batch 961046

Client ID: LCS for batch 961046

Batch ID: 961047

Run Date: 03/05/2010 15:09

Prep Date: 03/04/2010 22:58

Data File: 048f4801-1.d

048b4801-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YSI

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		27.0	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		32.8	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/048f4801-3.d
 Lab Smp Id: 1202061360 Client Smp ID: PBLK01LCS
 Inj Date : 05-MAR-2010 15:09
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202061360|1|
 Misc Info : |ECD82P_1S|961047|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecdl1a.i/030510.b/ECD1-F-8082-022210.m
 Meth Date : 08-Mar-2010 06:26 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 48 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2071.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

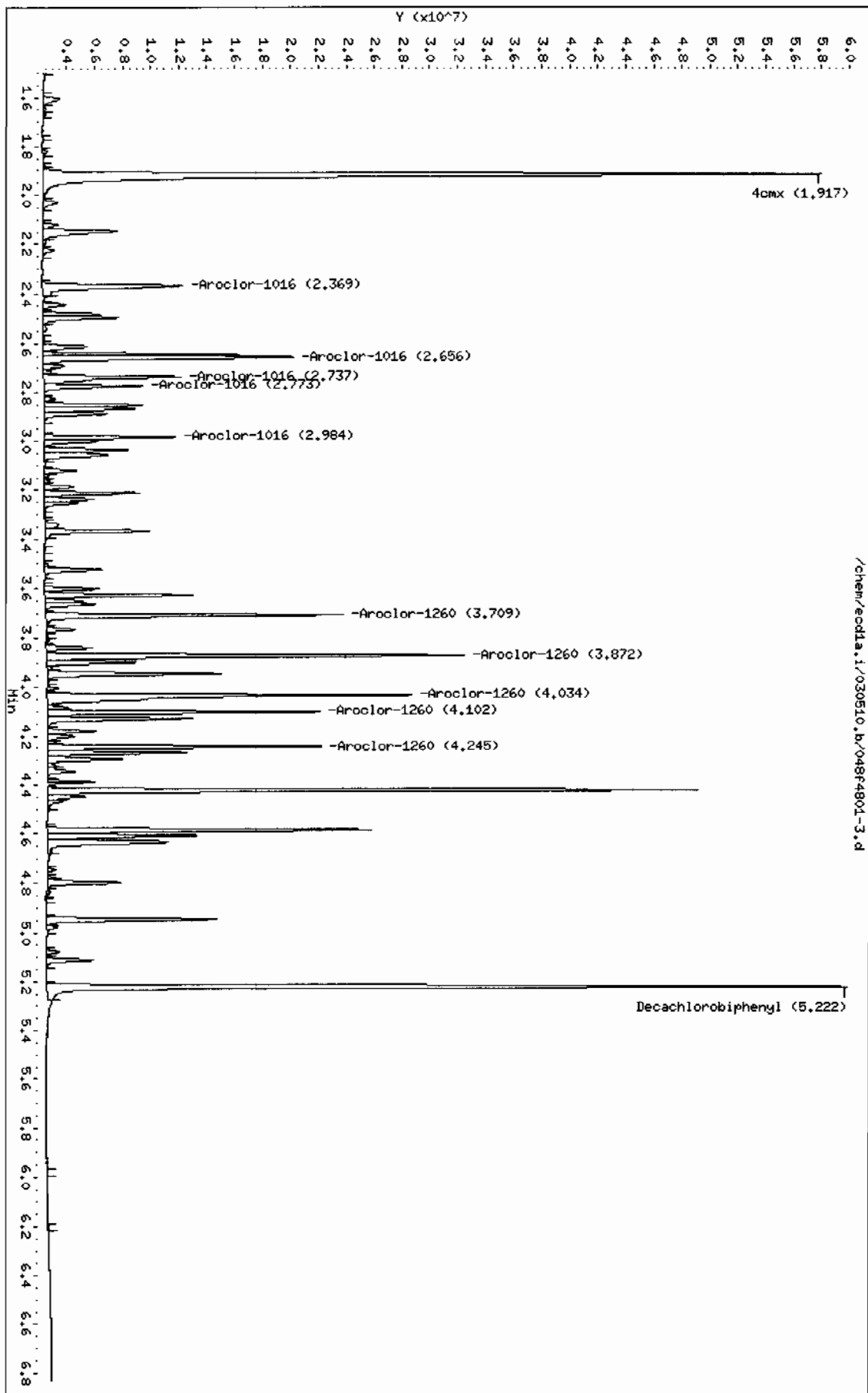
CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.917	1.916	0.001	63376068	147.168	4.9	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.222	5.224	-0.002	47182647	153.545	5.1	80.00- 120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
2.369	2.369	0.000	11913994	774.423	25.8	80.00- 120.00	100.00
2.656	2.656	0.000	14939925	819.209	27.3	112.87- 152.87	125.40
2.737	2.737	0.000	9651164	799.899	26.7	62.73- 102.73	81.01
2.773	2.774	-0.001	5822889	820.575	27.4	29.96- 69.96	48.87

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANCE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-I016 (continued)								
2.984	2.984	0.000	7478026	839.078	28.0	43.81-	83.81	62.77
Average of Peak Concentrations =					27.0			

7 Aroclor-1260					CAS #: 11096-82-5			
3.709	3.710	-0.001	15601412	913.837	30.5	80.00-	120.00	100.00
3.872	3.874	-0.002	23486110	993.345	33.1	129.18-	169.18	150.54
4.034	4.035	-0.001	25425495	1018.19	33.9	139.68-	179.68	162.97
4.102	4.104	-0.002	14191291	985.118	32.8	69.68-	109.68	90.96
4.245	4.246	-0.001	14572794	1009.86	33.7	73.29-	113.29	93.41
Average of Peak Concentrations =					32.8			

Data File: /chem/ecdda.i/030510.b/048f4801-3.d
Date: 05-MAR-2010 15:09
Client ID: PALKOILCS
Sample Info: 1120206136011
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



CEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030510.b/048b4801-3.d

Lab Smp Id: 1202061360

Client Smp ID: PBLK01LCS

Inj Date : 05-MAR-2010 15:09

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202061360|1|

Misc Info : |ECD82P_1S|961047|SVA|QC A|SOIL|LCS|

Comment :

Method : /chem/ecdl1a.i/030510.b/ECD1-B-8082-022210.m

Meth Date : 08-Mar-2010 07:35 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 48

QC Sample: LCS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2071.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
			RESPONSE (ug/L)	(ug/Kg)		
\$ 11 4cmx					CAS #: 877-09-8	
2.276	2.275	0.001	43312292 145.638	4.8	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.917	5.919	-0.002	32245690 152.463	5.1	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2	
3.170	3.170	0.000	10531989 823.469	27.4	80.00- 120.00	100.00(M)
3.253	3.254	-0.001	6940419 778.255	25.9	47.02- 87.02	65.90
3.317	3.317	0.000	4157118 768.981	25.6	21.81- 61.81	39.47
3.543	3.544	-0.001	5546558 802.031	26.7	34.33- 74.33	52.66

CONCENTRATIONS								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.619	3.619	0.000	5166454	804.091	26.8	30.88-	70.88	49.05
Average of Peak Concentrations =					26.5			

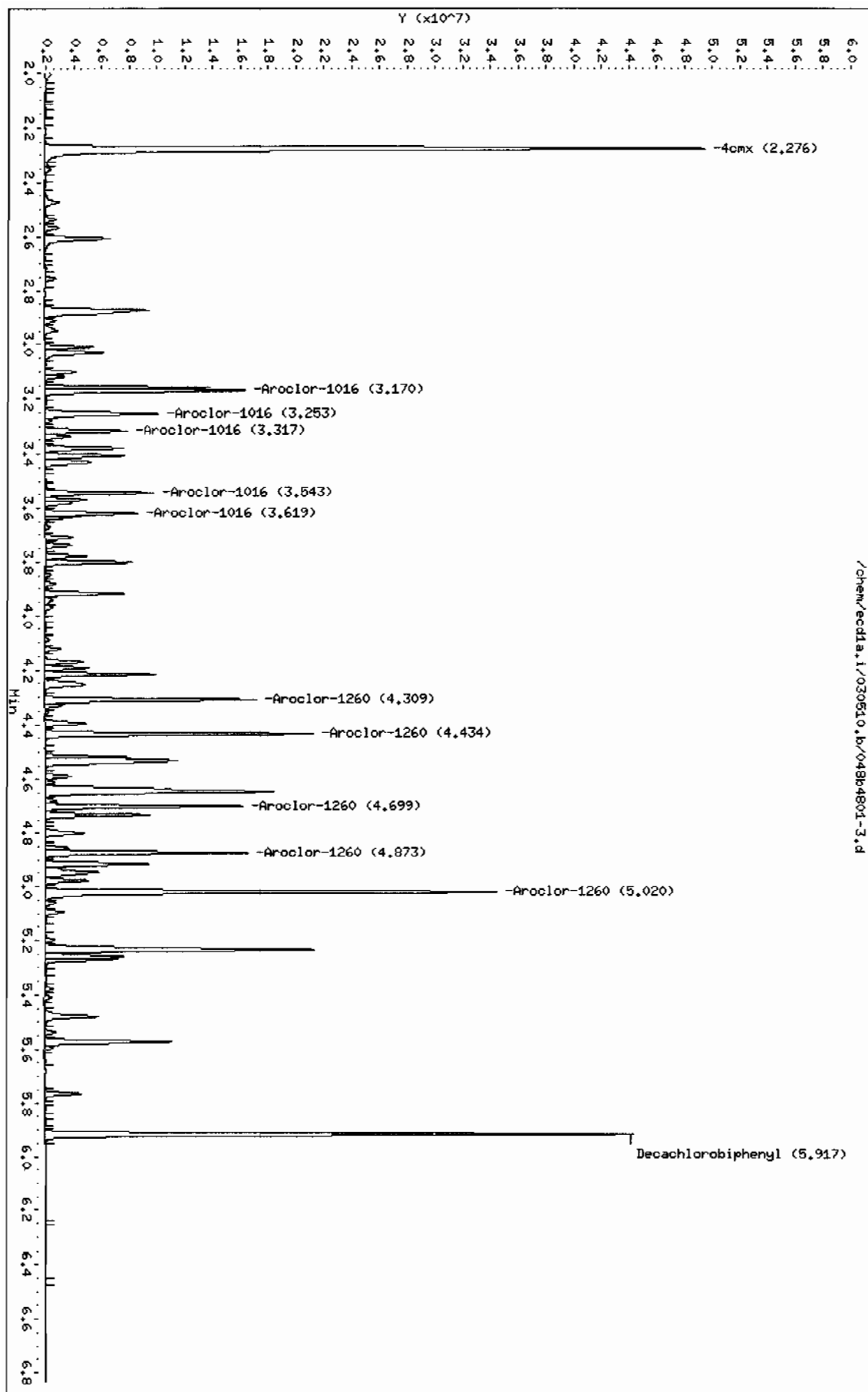
7 Aroclor-1260					CAS #: 11096-82-5			
4.309	4.310	-0.001	11140700	843.632	28.1	80.00-	120.00	100.00
4.434	4.435	-0.001	13854819	890.023	29.7	102.36-	142.36	124.36
4.699	4.701	-0.002	10419042	879.727	29.3	71.92-	111.92	93.52
4.873	4.874	-0.001	10878420	891.587	29.7	75.63-	115.63	97.65
5.020	5.021	-0.001	24652099	929.315	31.0	193.66-	233.66	221.28
Average of Peak Concentrations =					29.6			

QC Flag Legend

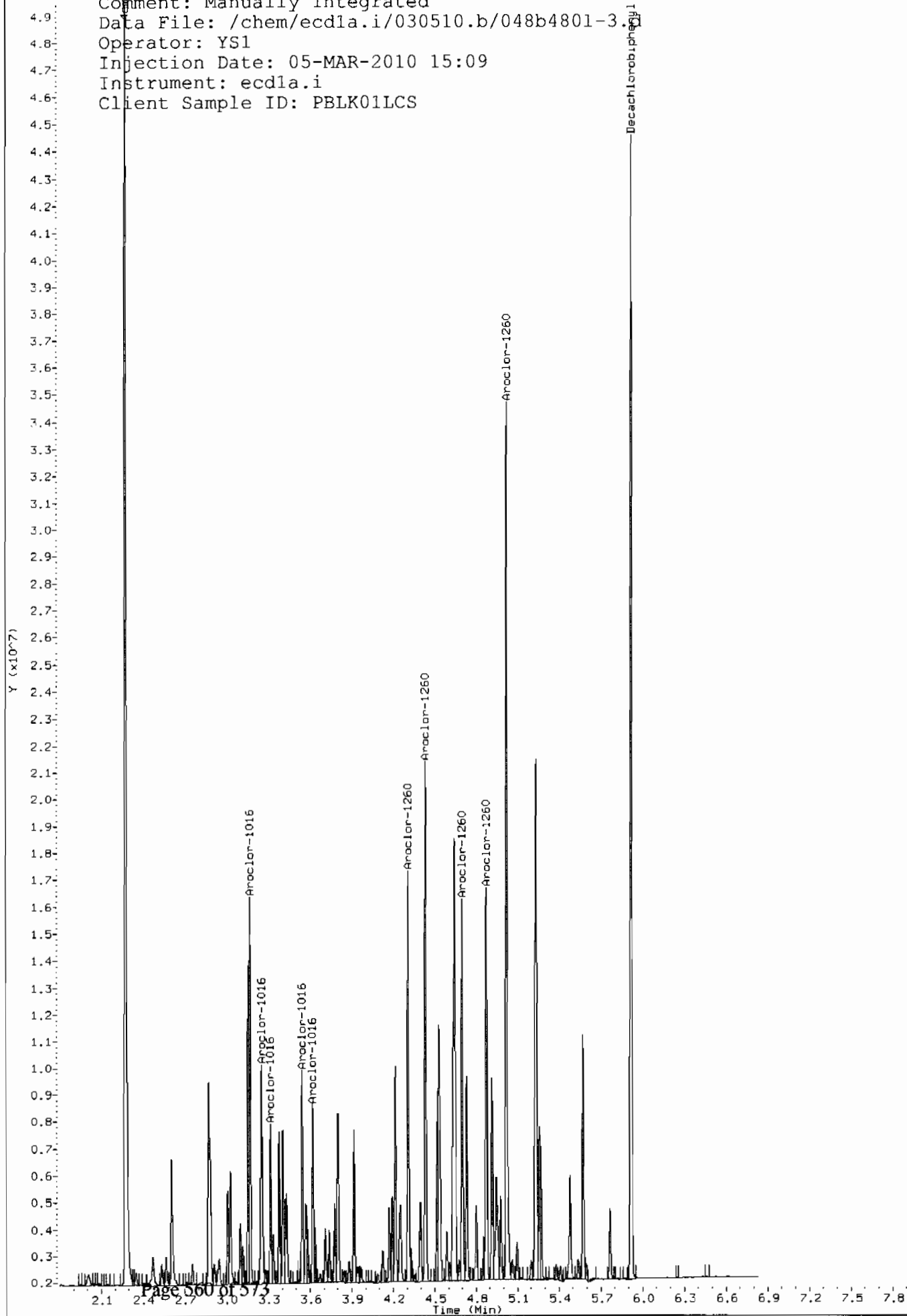
M - Compound response manually integrated.

Data File: /chem/ecdl1.i/030510.b/048b4801-3.d
Date: 05-MAR-2010 15:09
Client ID: PBLK01LCS
Sample Info: 1120206136011
Volume Injected (ul): 1.0
Column phase: CLP2

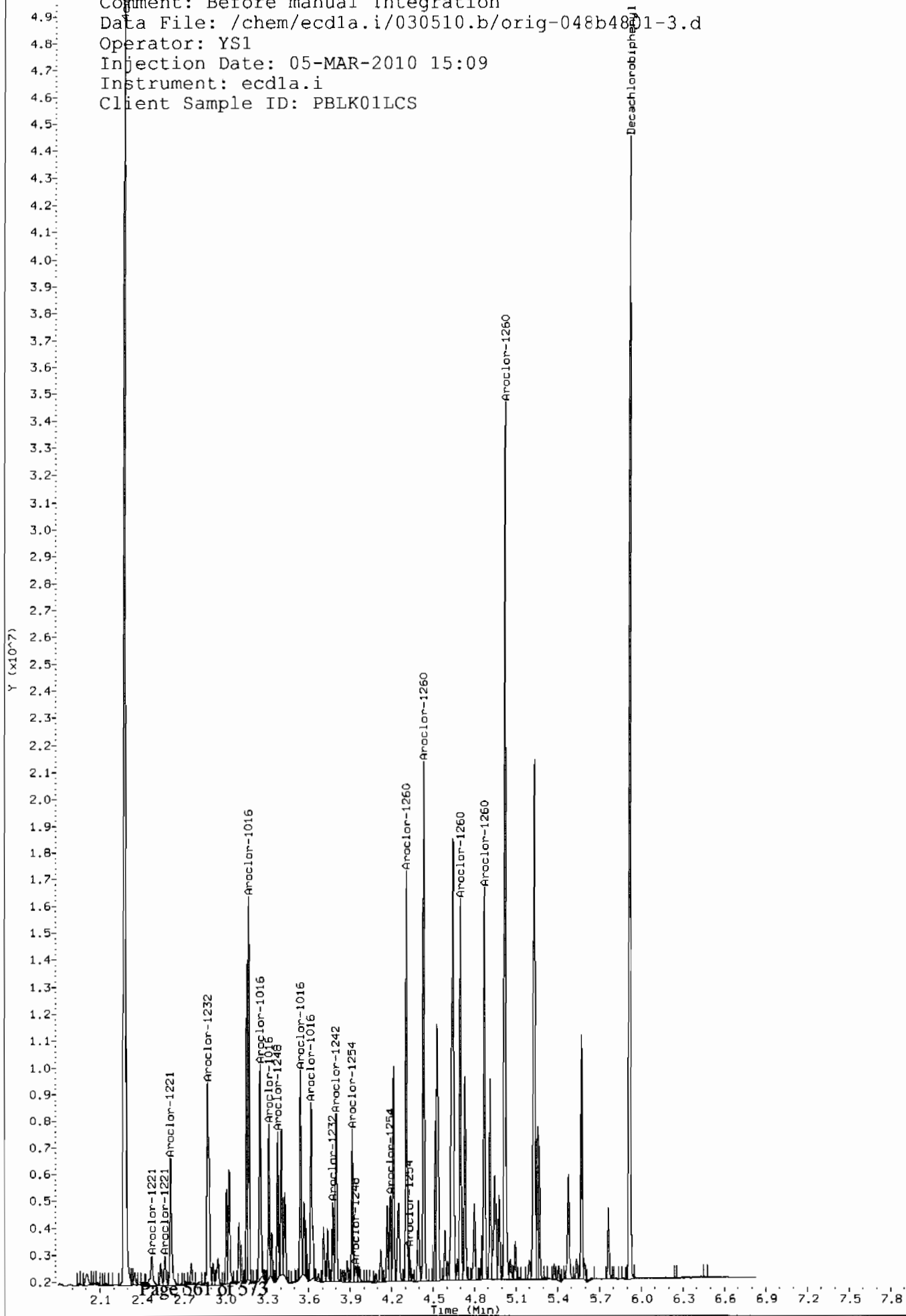
Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030510.b/048b4801-3.001
Operator: YS1
Injection Date: 05-MAR-2010 15:09
Instrument: ecdl1a.i
Client Sample ID: PBLK01LCS



Comment: Before manual integration
Data File: /chem/ecdl1.i/030510.b/orig-048b4801-3.d
Operator: YS1
Injection Date: 05-MAR-2010 15:09
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/23/2010 METHOD: ECD1-F-8082-022210.m OPERATOR: YS1 REVIEWED BY: _____

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
001f0101.d	WAR100219-99 01	YS1	22-FEB-2010 05:59		022210		1.01	ICLEAN
002f0201.d	WAR100203-60 01	YS1	22-FEB-2010 06:10		022210		1.01	DOSE RE-ICAL
003f0301.d	ARI1660-4	YS1	22-FEB-2010 06:20		022210		1.01	DOSE SCREEN
004f0401.d	WAR091219-JDC	YS1	22-FEB-2010 06:31		022210		1.01	DOT ANALOG STANDARD
005f0501.d	WAR100104-32	YS1	22-FEB-2010 06:41		022210		1.01	PATTERN ONLY
006f0601.d	WAR100104-21	YS1	22-FEB-2010 06:52		022210		1.01	PATTERN ONLY
007f0701.d	WAR100104-62	YS1	22-FEB-2010 07:03		022210		1.01	PATTERN ONLY
008f0801.d	WAR100222-01 60	YS1	22-FEB-2010 07:13		022210		1.01	ARI660 I-CAL LEVEL 1
009f0901.d	WAR100222-02 60	YS1	22-FEB-2010 07:24		022210		1.01	ARI660 I-CAL LEVEL 2
010f1001.d	WAR100222-03 60	YS1	22-FEB-2010 07:34		022210		1.01	ARI660 I-CAL LEVEL 3
011f1101.d	WAR100222-04 60	YS1	22-FEB-2010 07:45		022210		1.01	ARI660 I-CAL LEVEL 4
012f1201.d	ARI-00104-01	YS1	22-FEB-2010 07:55		022210		1.01	ARI660 I-CAL LEVEL 5
013f1301.d	WAR100203-60 01	YS1	22-FEB-2010 08:06		022210		1.01	PASSED ON BOTH COLUMNS
014f1401.d	WAR100222-05 54	YS1	22-FEB-2010 08:16		022210		1.01	ARI254 I-CAL LEVEL 1
015f1501.d	WAR100222-06 54	YS1	22-FEB-2010 08:27		022210		1.01	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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IC16f1601.d	WARI00222-07 54	YS1	22-FEB-2010 08:37	1	022210	1	1.01	ARI254 I-CAL LEVEL 3
IC17f1701.d	WARI00222-08 54	YS1	22-FEB-2010 08:48	1	022210	1	1.01	ARI254 I-CAL LEVEL 4
IC18f1801.d	WARI00219-02	YS1	22-FEB-2010 08:59	1	022210	1	1.01	ARI254 I-CAL LEVEL 5
IC19f1901.d	WARI00219-54	YS1	22-FEB-2010 09:09	1	022210	1	1.01	PASSED ON BOTH COLUMNS
IC20f2001.d	WARI00222-09 42	YS1	22-FEB-2010 09:20	1	022210	1	1.01	ARI242 I-CAL LEVEL 1
IC21f2101.d	WARI00222-10 42	YS1	22-FEB-2010 09:30	1	022210	1	1.01	ARI242 I-CAL LEVEL 2
IC22f2201.d	WARI00222-11 42	YS1	22-FEB-2010 09:41	1	022210	1	1.01	ARI242 I-CAL LEVEL 3
IC23f2301.d	WARI00222-12 42	YS1	22-FEB-2010 09:51	1	022210	1	1.01	ARI242 I-CAL LEVEL 4
IC24f2401.d	WARI00219-01	YS1	22-FEB-2010 10:02	1	022210	1	1.01	ARI242 I-CAL LEVEL 5
IC25f2501.d	WARI00219-42	YS1	22-FEB-2010 10:12	1	022210	1	1.01	PASSED ON BOTH COLUMNS
IC26f2601.d	WARI00222-13 48	YS1	22-FEB-2010 10:23	1	022210	1	1.01	ARI248 I-CAL LEVEL 1
IC27f2701.d	WARI00222-14 48	YS1	22-FEB-2010 10:33	1	022210	1	1.01	ARI248 I-CAL LEVEL 2
IC28f2801.d	WARI00222-15 48	YS1	22-FEB-2010 10:44	1	022210	1	1.01	ARI248 I-CAL LEVEL 3
IC29f2901.d	WARI00211-01	YS1	22-FEB-2010 10:54	1	022210	1	1.01	ARI248 I-CAL LEVEL 5
IC30f3001.d	WARI00222-16	YS1	22-FEB-2010 11:05	1	022210	1	1.01	ARI248 I-CAL LEVEL 4
IC31f3101.d	WARI00217-48	YS1	22-FEB-2010 11:16	1	022210	1	1.01	PASSED ON BOTH COLUMNS
IC32f3201.d	WARI00222-17 68	YS1	22-FEB-2010 11:26	1	022210	1	1.01	ARI268 I-CAL LEVEL 1
IC33f3301.d	WARI00222-18 68	YS1	22-FEB-2010 11:37	1	022210	1	1.01	ARI268 I-CAL LEVEL 2
IC34f3401.d	WARI00222-19 68	YS1	22-FEB-2010 11:47	1	022210	1	1.01	ARI268 I-CAL LEVEL 3
IC35f3501.d	WARI00222-20 68	YS1	22-FEB-2010 11:58	1	022210	1	1.01	ARI268 I-CAL LEVEL 4

Instrument Batch: /chem/ecdl1a.i/022210.b

Page: 2

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
IC36f3601.d	WARI00104-05	YS1	22-FEB-2010 12:08	1	022210	1	1.01	ARI268 I-CAL LEVEL 5
IC37f3701.d	WARI00107-68	YS1	22-FEB-2010 12:19	1	022210	1	1.01	PASSED ON BOTH COLUMNS
IC38f3801.d	WARI00219-99 02	YS1	22-FEB-2010 12:29	1	022210	1	1.01	ICLEAN
IC39f3901-1.d	1202046866	YS1	22-FEB-2010 12:40	954781	110-1846	1	1.01QC A	UPLoad BOTH COLUMNS, USE HIGHER
IC39f3901-2.d	1202046866	YS1	22-FEB-2010 12:40	954781	110-1848	1	1.01QC A	UPLoad BOTH COLUMNS, USE HIGHER

Data File	GE Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1039f3901.d	11202046866	YS1	22-FEB-2010 12:40	954781	10-1808	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4301.d	11202046867	YS1	22-FEB-2010 12:50	954781	10-1846	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4401.d	11202046867	YS1	22-FEB-2010 12:50	954781	10-1848	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4501.d	11202046867	YS1	22-FEB-2010 12:50	954781	10-1808	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1041f4101.d	1246968001	YS1	22-FEB-2010 13:01	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	1246968002	YS1	22-FEB-2010 13:14	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1043f4301.d	1246968003	YS1	22-FEB-2010 13:26	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1044f4401.d	1246968004	YS1	22-FEB-2010 13:39	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1045f4501.d	1246968005	YS1	22-FEB-2010 13:51	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1046f4601.d	1246968006	YS1	22-FEB-2010 14:04	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1047f4701.d	1246968007	YS1	22-FEB-2010 14:17	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1048f4801.d	1246968008	YS1	22-FEB-2010 14:30	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1049f4901.d	1246968009	YS1	22-FEB-2010 14:42	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1050f5001.d	1246968010	YS1	22-FEB-2010 14:53	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1051f5101.d	1246968011	YS1	22-FEB-2010 15:03	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1052f5201.d	1246968012	YS1	22-FEB-2010 15:16	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1053f5301.d	1246968013	YS1	22-FEB-2010 15:28	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1054f5401.d	1246968014	YS1	22-FEB-2010 15:41	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1055f5501.d	1246968015	YS1	22-FEB-2010 15:54	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1056f5601.d	1246968016	YS1	22-FEB-2010 16:06	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1057f5701.d	1246968017	YS1	22-FEB-2010 16:19	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1058f5801.d	1246968018	YS1	22-FEB-2010 16:32	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1059f5901.d	1246968019	YS1	22-FEB-2010 16:44	954781	10-1808	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1060f6001.d	1246968020	YS1	22-FEB-2010 16:57	954781	10-1846	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

086f8601.d	2470430:5	YS1	22-FEB-2010 22:26	955479	10-1818	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
087f8701.d	2470430:6	YS1	22-FEB-2010 22:39	955479	10-1818	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
088f8801.d	2470430:7	YS1	22-FEB-2010 22:51	955479	10-1818	1.0 LANL	SURROGATE LOW RE
089f8901.d	2470430:8	YS1	22-FEB-2010 23:04	955479	10-1818	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
090f9001.d	WAR100203-60 06	YS1	22-FEB-2010 23:17		022210	1.0	PASSED ON BOTH COLUMNS
091f9101.d	WAR100219-99 07	YS1	22-FEB-2010 23:29		022210	1.0	CLEAN

Instrument Batch: /chem/ecdla.i/022210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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	1.0		DUSE SCREEN

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 03/08/2010 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-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/ecdl1a.i/030510.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	05-MAR-2010 05:57		030510	1.0	1.0	CLEAN
002f0201.d	WAR100222-60 01	YS1	05-MAR-2010 06:08		030510	1.0	1.0	PASSE ON BOTH COLUMNS
003f0301.d	WAR100219-54	YS1	05-MAR-2010 06:18		030510	1.0	1.0	PASSE ON BOTH COLUMNS
004f0401.d	WAR100219-42	YS1	05-MAR-2010 06:29		030510	1.0	1.0	PASSE ON BOTH COLUMNS
005f0501.d	WAR100223-48	YS1	05-MAR-2010 06:39		030510	1.0	1.0	PASSE ON BOTH COLUMNS
006f0601.d	WAR100107-68	YS1	05-MAR-2010 06:50		030510	1.0	1.0	PASSE ON BOTH COLUMNS
007f0701.d	WAR100104-32	YS1	05-MAR-2010 07:00		030510	1.0	1.0	PATTERN ONLY
008f0801.d	WAR100104-21	YS1	05-MAR-2010 07:11		030510	1.0	1.0	PATTERN ONLY
009f0901.d	WAR100104-62	YS1	05-MAR-2010 07:21		030510	1.0	1.0	PATTERN ONLY
010f1001.d	WAR391219-DST	YS1	05-MAR-2010 07:32		030510	1.0	1.0	DCT ANALOG STANDARD
011f1101.d	WAR100219-99 02	YS1	05-MAR-2010 07:42		030510	1.0	1.0	CLEAN
012f1201.d	1248253001	YS1	05-MAR-2010 07:53	960051	10-2143	20.0	LANL	DUSE RE
013f1301.d	1248253002	YS1	05-MAR-2010 08:05	960051	10-2143	50.0	LANL	DUSE RE
014f1401.d	WAR100222-60 02	YS1	05-MAR-2010 08:18		030510	1.0	1.0	PASSE ON BOTH COLUMNS
015f1501.d	WAR100219-99 03	YS1	05-MAR-2010 08:28		030510	1.0	1.0	CLEAN

Instrument Batch: /chem/ecdl1a.i/030510.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	1202060500	YS1	05-MAR-2010 08:39	960640	SP4016	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1017f1701.d	1202060501	YS1	05-MAR-2010 08:51	960640	SP4016	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1018f1801.d	1247530001	YS1	05-MAR-2010 09:04	960640	247530	5.0 GELC	UPLOAD BOTH COLUMNS, USE HIGHER
1019f1901.d	1202060502	YS1	05-MAR-2010 09:17	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1020f2001.d	247573011	YS1	05-MAR-2010 09:29	960640	SP4016	2.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1021f2101.d	1202060503	YS1	05-MAR-2010 09:42	960640	SP4016	2.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1022f2201.d	1247573012	YS1	05-MAR-2010 09:54	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1023f2301.d	1248508001	YS1	05-MAR-2010 10:07	960640	248508	5.0 GELC	UPLOAD BOTH COLUMNS, USE HIGHER
1024f2401.d	1248508002	YS1	05-MAR-2010 10:20	960640	248508	5.0 GELC	UPLOAD BOTH COLUMNS, USE HIGHER
1025f2501.d	1248508003	YS1	05-MAR-2010 10:33	960640	248508	5.0 GELC	UPLOAD BOTH COLUMNS, USE HIGHER
1026f2601.d	1247573013	YS1	05-MAR-2010 10:41	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1027f2701.d	1247573014	YS1	05-MAR-2010 10:53	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1028f2801.d	1247573015	YS1	05-MAR-2010 11:06	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1029f2901.d	1247573016	YS1	05-MAR-2010 11:18	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1030f3001.d	1247573017	YS1	05-MAR-2010 11:31	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1031f3101.d	1247573018	YS1	05-MAR-2010 11:44	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1032f3201.d	1247573019	YS1	05-MAR-2010 11:56	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1033f3301.d	1247573020	YS1	05-MAR-2010 12:09	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1034f3401.d	1247573021	YS1	05-MAR-2010 12:21	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1035f3501.d	1247573022	YS1	05-MAR-2010 12:34	960640	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/030510.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	1248508001	YS1	05-MAR-2010 12:47	960612	EUI-7519	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
037f3701.d	1248508002	YS1	05-MAR-2010 12:57	960612	EUI-7519	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
038f3801.d	1202060438	YS1	05-MAR-2010 13:08	960612	EUI-7519	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
039f3901.d	1202060439	YS1	05-MAR-2010 13:20	960612	EUI-7519	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
040f4001.d	1247819001	YS1	05-MAR-2010 13:33	960612	EUI-7519	1.0 CARE	UPLOAD BOTH COLUMNS, USE HIGHER	

1041f401.d	1248071001	YSIS	05-MAR-2010 13:45	960612	1248071	1.0 MSRB	UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	1202060440	YSIS	05-MAR-2010 13:58	960612	1248071	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1043f4301.d	1202060441	YSIS	05-MAR-2010 14:11	960612	1248071	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1044f4401.d	1248071002	YSIS	05-MAR-2010 14:23	960612	1248071	1.0 MSRB	UPLOAD BOTH COLUMNS, USE HIGHER
1045f4501.d	1WARI0222-60 05	YSIS	05-MAR-2010 14:36		030510	1.0	PASSE ON BOTH COLUMNS
1046f4601.d	1WARI00219-99 06	YSIS	05-MAR-2010 14:46		030510	1.0	ICLEAN
1047f4701.d	1202061359	YSIS	05-MAR-2010 14:57	961047	10-2031	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1048f4801.d	1202061360	YSIS	05-MAR-2010 15:09	961047	10-2031	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1049f4901.d	1247973001	YSIS	05-MAR-2010 15:22	961047	10-2031	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1050f5001.d	1247973002	YSIS	05-MAR-2010 15:35	961047	10-2031	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1051f5101.d	1247973003	YSIS	05-MAR-2010 15:47	961047	10-2031	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1052f5201.d	1247973004	YSIS	05-MAR-2010 16:00	961047	10-2031	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1053f5301.d	1247973005	YSIS	05-MAR-2010 16:12	961047	10-2031	1.0 LANL	DUSE RE RESULT DID NOT MATCH WITH ORIGINAL
1054f5401.d	1247973006	YSIS	05-MAR-2010 16:25	961047	10-2031	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1055f5501.d	1247973008	YSIS	05-MAR-2010 16:38	961047	10-2031	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/030510.b

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Data File	GEL Lab Sample ID	Ana.lyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1056f5601.d	1WARI0222-60 06	YSIS	05-MAR-2010 16:50		030510	1.0		PASSE ON BOTH COLUMNS
1057f5701.d	1WARI00219-99 07	YSIS	05-MAR-2010 17:03		030510	1.0		ICLEAN
1058f5801.d	1248004002	YSIS	05-MAR-2010 17:16	961047	10-2024	1.0 LANL		DUSE RE RESULT DID NOT MATCH WITH MSD
1059f5901.d	1202061361	YSIS	05-MAR-2010 17:28	961047	10-2024	1.0 LANL		DUSE
1060f6001.d	1202061362	YSIS	05-MAR-2010 17:41	961047	10-2024	1.0 LANL		DUSE
1061f6101.d	248004003	YSIS	05-MAR-2010 17:53	961047	10-2024	1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1062f6201.d	248004004	YSIS	05-MAR-2010 18:06	961047	10-2024	1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1063f6301.d	1248004005	YSIS	05-MAR-2010 18:19	961047	10-2024	1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
1064f6401.d	1248004006	YSIS	05-MAR-2010 18:31	961047	10-2024	1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER

1065f6501.d	WAR100222-60 07	YS1	05-MAR-2010 18:44		030510	1.01	PASSE ON BOTH COLUMNS
1066f6601.d	WAR100219-99 08	YS1	05-MAR-2010 18:56		030510	1.01	CLEAN
1067f6701.d	248027002	YS1	05-MAR-2010 19:09	961047	10-2068	1.01LANE	UPLOAD BOTH COLUMNS, USE HIGHER
1068f6801.d	248027003	YS1	05-MAR-2010 19:22	961047	10-2068	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1069f6901.d	248029001	YS1	05-MAR-2010 19:34	961047	10-2071	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1070f7001.d	248029002	YS1	05-MAR-2010 19:47	961047	10-2071	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1071f7101.d	248029009	YS1	05-MAR-2010 20:00	961047	10-2071	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1072f7201.d	WAR100222-60 08	YS1	05-MAR-2010 20:12		030510	1.01	PASSE ON BOTH COLUMNS
1073f7301.d	WAR100219-99 09	YS1	05-MAR-2010 20:25		030510	1.01	CLEAN

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 961046
 Analyst: Alberto Velasco
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202061359 MB	04-MAR-2010 22:58:00	30	H2SO4/KM2	2	2	9	1	0.03333
1202061360 LCS	04-MAR-2010 22:58:00	30	H2SO4/KM2	2	2	9	1	0.03333
247973001 -2	04-MAR-2010 22:58:00	30.07	H2SO4/KM2	2	2	9	1	0.03326
247973002 -2	04-MAR-2010 22:58:00	30.11	H2SO4/KM2	2	2	9	1	0.03321
247973003 -2	04-MAR-2010 22:58:00	30.18	H2SO4/KM2	2	2	9	1	0.03313
247973004 -2	04-MAR-2010 22:58:00	30.16	H2SO4/KM2	2	2	9	1	0.03316
247973005 -2	04-MAR-2010 22:58:00	30.19	H2SO4/KM2	2	2	9	1	0.03312
247973006 -2	04-MAR-2010 22:58:00	30.05	H2SO4/KM2	2	2	9	1	0.03328
247973008 -2	04-MAR-2010 22:58:00	30.17	H2SO4/KM2	2	2	9	1	0.03315
248004002 -2	04-MAR-2010 22:58:00	30.09	H2SO4/KM2	2	2	9	1	0.03323
1202061361 -2 MS (248004002)	04-MAR-2010 22:58:00	30.12	H2SO4/KM2	2	2	9	1	0.0332
1202061362 -2 MSD (248004002)	04-MAR-2010 22:58:00	30.03	H2SO4/KM2	2	2	9	1	0.0333
248004003 -2	04-MAR-2010 22:58:00	30.14	H2SO4/KM2	2	2	9	1	0.03318
248004004 -2	04-MAR-2010 22:58:00	30.02	H2SO4/KM2	2	2	9	1	0.03331
248004005 -2	04-MAR-2010 22:58:00	30.06	H2SO4/KM2	2	2	9	1	0.03327
248004006 -2	04-MAR-2010 22:58:00	30.13	H2SO4/KM2	2	2	9	1	0.03319
248027002 -2	04-MAR-2010 22:58:00	30.03	H2SO4/KM2	2	2	9	1	0.0333
248027003 -2	04-MAR-2010 22:58:00	30.14	H2SO4/KM2	2	2	9	1	0.03318
248029001 -2	04-MAR-2010 22:58:00	30.12	H2SO4/KM2	2	2	9	1	0.0332
248029002 -2	04-MAR-2010 22:58:00	30.18	H2SO4/KM2	2	2	9	1	0.03313
248029009 -2	04-MAR-2010 22:58:00	30.11	H2SO4/KM2	2	2	9	1	0.03321
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202061360	PCB Laboratory Control	WEI000224-07	1	mL	Clean up Date: 3/4/10		
MS	1202061361	PCB Laboratory Control	WEI000224-07	1	mL	Clean up Initials: AAW		
MSD	1202061362	PCB Laboratory Control	WEI000224-07	1	mL	Verified By: AAW		
SURR	ALL	PEST LOW LEVEL SURROGATE 200 U/G/L	UEI000222-15	1	mL	Final Solvent: Hexane		
REGNT	ALL	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037		
REGNT	ALL	Acetone	1273823-B1	150	mL			
REGNT	ALL	Hexane	1279345-B2	150	mL			
REGNT	ALL	5% Potassium Permanganate	B1275177-F	5	mL			
SOURCE	ALL	SODIUM SULFATE	1274910	30	g			