



Edward D. Meeks
Remediation Project Manager
Environmental, Health & Safety

Hercules Incorporated
Hercules Research Center
500 Hercules Road
Wilmington, DE 19808-1599
Writer's Direct Dial: 302-995-3433

VIA FEDERAL EXPRESS

February 22, 2018

Bureau of Case Assignment & Initial Notice
Site Remediation Program
New Jersey Department of Environmental Protection
401-05H
PO Box 420
Trenton, New Jersey 08625-0420

Subject: **Potable Well Sampling Results Notification**
868 Route 46
Kenvil, Roxbury Township, Morris County
Block 5301, Lot 11
Sampling Date: January 19, 2018

Regarding: **Hercules LLC – Former Kenvil Works Facility**
100 Howard Boulevard/51 Hercules Road
Kenvil, Roxbury Township, Morris County
NJDEP Program Interest No.: 000741

Dear Sir or Madam:

On behalf of Hercules LLC (Hercules) please find attached documentation related to potable well sample analytical results reporting for the above-referenced property. The information provided herein fulfills reporting requirements for potable well sample results less than Class II groundwater quality standards established at New Jersey Administrative Code 7:26E-1.14(c).

Specifically, this information package includes:

- Exhibit 1 – Full Laboratory Data Deliverable Form
- Exhibit 2 – Electronic data deliverable email submission confirmation
- Exhibit 3 – Notification package dated February 7, 2018 sent to Charles Napoli Real Estate Holdings (property owner) and Roxbury Township Health Department

Based on these results, no further investigation on the subject property is needed.

If you have questions related to the potable well sampling please contact me at 302.995.3433 or edmeeks@ashland.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Ed D Meeks".

Edward D. Meeks
Remediation Project Manager

Enclosure

cc: Mark Foley, Licensed Site Remediation Professional, WSP Inc.
Scott Larew, Project Manager, Kennedy/Jenks Consultants

Exhibit 1

Full Laboratory Data Deliverable Form



New Jersey Department of Environmental Protection
Site Remediation Program

FULL LABORATORY DATA DELIVERABLES FORM

☒ LSRP

☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Former Kenvil Works Facility

List all AKAs: Alliant Techsystems Inc.

Street Address: 100 Howard Boulevard

Municipality: Roxbury (Township, Boro or City)

County: Morris Zip Code: 07847

Program Interest (PI) Number(s): 00741 Case Tracking Number(s): 849

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager: _____

SECTION C. REMEDIAL PHASE

☐ Immediate Environmental Concern

☐ Preliminary Assessment Report

☐ Site Investigation Report

☒ Remedial Investigation/Remedial Action Work Plan

☐ Remedial Action Report

☐ Response Action Outcome

SECTION D. Matrix Type/Analysis and Number of Samples

☒ Potable Well Water# of samples: 2 Sampling Date: 01/19/2018
Analytical Method(s) EPA SW 846 Method 8095

☐ Indoor Air# of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Polychlorinated dibenzo-p-dioxins/polychlorinated dibenzofurans # of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Hexavalent chromium soil sample# of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Other# of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Other# of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Other# of samples: _____ Sampling Date: _____
Analytical Method _____

SECTION E. GENERAL

1. Was a full laboratory data deliverables package provided? ☒ Yes ☐ No

2. Was a certified laboratory(s) used for the analyses? ☒ Yes ☐ No

Provide name of laboratory(s): Pace Analytical Services, LLC

3. Were data summaries provided for all samples? ☒ Yes ☐ No

4. Were electronic deliverables submitted? ☒ Yes ☐ No

5. For air sample data, were the TO-15 Conversion Tables (hit-lists) provided on disc in the appropriate Excel format pursuant to the VIG? ☐ Yes ☐ No

Section F. Data Quality Assurance/Quality Control

1. Were the appropriate sample preservation requirements met? ☒ Yes ☐ No
2. Were appropriate sample holding times (for both extraction/sample preparation and analysis) met? ☒ Yes ☐ No
- If "No," provide a brief explanation.

3. Were the samples diluted? ☐ Yes ☒ No
- Indicate the identity of the samples and why.

4. If applicable, did sample dilutions result in elevated reporting limits that exceed applicable standards?.. ☐ Yes ☐ No
- If "Yes," list the affected samples.

5. Were any applicable standards exceeded for any samples? ☐ Yes ☒ No
- If "Yes," include the number of samples and laboratory sample identification numbers.

6. Were the laboratory reporting limits below the applicable remediation standards/criteria required for the site? ☒ Yes ☐ No
- If "No," provide a brief explanation of action taken.

7. Were qualifications noted in the non-conformance summary? ☒ Yes ☐ No
- Provide a brief explanation.
- Yes, the case narrative noted a r^2 value for tetryl outside acceptance limits.

8. Were qualified data used? ☒ Yes ☐ No
9. Were rejections noted in the non-conformance summary? ☐ Yes ☒ No
- Provide a brief explanation.

Due to r^2 for tetryl exceeding acceptance limits, two samples were qualified as non-detect estimated (UJ).

10. Were rejected data used? ☐ Yes ☒ No

If "Yes," please indicate reasons rejected data were used:

- ☐ For Hex Chrome, data were rejected because spike recovery was less than 50%.
- ☐ Data were rejected due to missing deliverables.
- ☐ Data were rejected but an applicable standard exceedance exists.
- ☐ Data were rejected in an early phase of a remediation; however, additional sampling and analysis are scheduled to be performed.
- ☐ Other reasons not noted directly above. Explain:

11. Were the quality control criteria associated with the compounds of concern at the site met? ☒ Yes ☐ No

12. Were the QC Summary Forms reviewed? ☒ Yes ☐ No

13. Surrogate recoveries acceptable ☒ Yes ☐ No

14. Internal Standards acceptable ☒ Yes ☐ No

15. MS/MSDs acceptable ☐ Yes ☒ No

16. Tune summaries acceptable ☐ Yes ☐ No

17. Calibration summaries acceptable ☐ Yes ☒ No

18. Serial dilutions acceptable ☐ Yes ☐ No

19. Inorganic duplicates acceptable ☐ Yes ☐ No

20. LCS recovery acceptable ☒ Yes ☐ No

21. Other QC acceptable? ☒ Yes ☐ No

Provide a brief explanation if applicable:

Although the MS/MSD was outside acceptance limit for HMX, no data was qualified since the MS/MSD failed high and the associated sample was non-detect.

Although the CCV for tetryl was outside acceptance limits, no data was qualified since the CCV failed high and the associated samples were non-detect.

Due to r² for tetryl exceeding acceptance limits, two samples were qualified as non-detect estimated (UJ).

SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Edward D. Meeks

Representative First Name: Edward Representative Last Name: Meeks

Title: Remediation Project Manager

Phone Number: (302) 995-3433 Ext: _____ Fax: (302) 995-3485

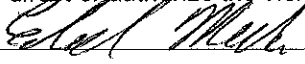
Mailing Address: Hercules Research Center, 500 Hercules Road, Building 8145

City/Town: Wilmington State: DE Zip Code: 19808

Email Address: edmeeks@ashland.com

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature:  Date: 3/1/18

Name/Title: Edward Meeks - Remediation Project Manager

SECTION H. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENTLSRP ID Number: 575999First Name: Mark Last Name: FoleyPhone Number: (609) 512-3676 Ext: _____ Fax: _____Mailing Address: 2000 Lenox Drive, 3rd FloorCity/Town: Lawrenceville State: NJ Zip Code: 08648Email Address: mark.foley@wsp.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

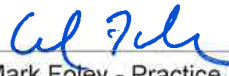
- ☐ directly oversaw and supervised all of the referenced remediation, and/or
☒ personally reviewed and accepted all of the referenced remediation presented herein.

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Date: 3/1/2018LSRP Name/Title: Mark Foley - Practice LeaderCompany Name: WSP USA

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Exhibit 2

Electronic Data Deliverable Email Submission Confirmation

Kiersten Robbins

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Thursday, February 22, 2018 2:28 PM
To: Kiersten Robbins
Subject: 000741, LSR120001, E94632, HB222468, (Directory: 2018PW) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (KierstenRobbins@kennedyjenks.com) on (2/22/2018 1:27:55 PM) with the subjectline "14794, 000741".

The following identifiers were in the DTST file:

- Directory: 2018PW
- DESC: Ashland Kenvil
- SRPID: E94632
- Submit Date: 2/21/2018 0:00:00

This submission has been issued an SRP Catalog ID: HB222468

Submission status: **Passed.**

Please do **not** resubmit.

EDD data deliverable must be submitted only once.

- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_9266
Sub ID: SUB_53177

Exhibit 3

Notification Package Dated February 7, 2018



Edward D. Meeks
Environmental Remediation Project Manager
Environmental, Health & Safety

Hercules LLC
Hercules Research Center
500 Hercules Road
Wilmington, DE 19808-1599
Writer's Direct Dial: 302-995-3433

VIA CERTIFIED MAIL/RETURN RECEIPT

February 7, 2018

Charles Napoli Real Estate Holdings
P.O. Box 341
East Hanover, New Jersey 07936-0341

Subject: Potable Well Sampling Results at:
868 Route 46
Kenvil, Roxbury Township, Morris County
Block 5301, Lot 11
Sampling Date: January 19, 2018

Regarding: Hercules LLC – Former Kenvil Works Facility
100 Howard Boulevard/51 Hercules Road
Kenvil, Roxbury Township, Morris County
NJDEP Program Interest No.: 000741

Dear Mr. Napoli,

On behalf of Hercules, LLC (Hercules) please find attached a copy of the laboratory results generated from the potable water sample collected on January 19, 2018 from the residential property potable well at 868 Route 46 in Kenvil, Roxbury Township, Morris County, New Jersey.

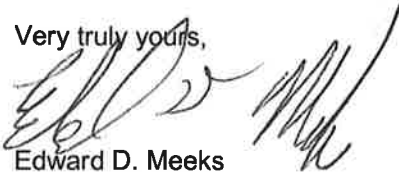
The potable well sample was collected in compliance with New Jersey Department of Environmental (NJDEP) guidance as part of the on-going environmental investigation/remediation of the Hercules property. Specifically, the potable well sample was collected to verify that the site related compounds are not present in the potable well sample at concentrations exceeding NJDEP's Groundwater Quality Standards established at the New Jersey Administrative Code 7:9C as required by New Jersey Administrative Code (N.J.A.C.) 7:26E-1.14.

Nitroaromatics and nitroamines are explosive compounds formerly manufactured at the Hercules property. The potable well sample was analyzed for nitroaromatics and nitroamines by United States Environmental Protection Agency (USEPA) Method SW846 8095. No nitroaromatics and nitroamines were detected in the potable well sample. The laboratory report is provided in Enclosure A.

Pursuant to New Jersey's Open Public Records Act (OPRA), potable well sampling results submitted to NJDEP become part of the public record for the former Kenvil Works Facility (also referred to as the Alliant Techsystems, Inc. Site). NJDEP is obligated to make this information available to any interested party that requests access to it through its Office of Record Access.

If you have any questions concerning the potable well sampling, please don't hesitate to contact me at either 302-995-3433 or edmeeks@ashland.com.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Ed Meeks', is written over the typed name.

Edward D. Meeks

Remediation Project Manager

Enclosure

cc: Scott Larew, Principal Scientist/Project Manager, Kennedy/Jenks Consultants
Mark Foley, Licensed Site Remediation Professional, WSP Americas, Inc.
Roxbury Township Health Department

Enclosure A

Pace Analytical – Madison

SDG: A180310



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical - Madison

SDG: A180310

Report Prepared: 2/5/2018

Certification List			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2018
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2018
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2018
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2018
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2018
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Case Narrative

CASE NARRATIVE

Sample Receipt Information:

2 samples were received on 01/20/2018. Samples were received at 1.9 degrees Celsius. Samples were received in acceptable condition.

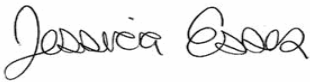
Please see the chain of custody (COC) document at the end of this report for additional information.

Initial Calibration:

The initial calibration for tetraol on the RTX-440 column had an R^2 value of 0.98656. The acceptable limit is 0.990. The RTX-440 column was recalibrated on 01/29/2018 for tetraol. Samples were re-analyzed for tetraol only. All data is presented in this data package.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, unless conditions are detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:



Name:

Jessica Esser

Date:

2/5/2018

Title:

Project Manager

ANALYSES DATA PACKAGE COVER PAGE

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Client Sample Id:

PW-868-20180119

BD20180119

Lab Sample Id:

A180310-01

A180310-02

Notes and Definitions

M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

TABLE 1
MANUAL INTEGRATION REVIEW CODES

Review Code:	Explanation of Review Code
NI	Indicates that the peak was not integrated at all by the computer software.
LT	Indicates that the peak in question was inappropriately integrated to an area or height less than what it should be (e.g., peak area/height was cut).
GT	Indicates that the peak in question was inappropriately integrated to an area or height greater than it should be (e.g., peak tailing).
BA	Indicates that the baseline had to be adjusted correctly by the analyst.
CO	Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Indicates that the retention time for the peak in question has shifted from the expected retention time.
INT	Indicates that there was electronic interference (e.g., noise).
WP	Indicates that the wrong peak was chosen by the data system.

REPORTING LIMITS

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Matrix: Water

Instrument: 3336A52146

Analyte	MRL	Units	Method
3-Nitrotoluene	0.025	ug/L	EPA 8095
4-Nitrotoluene [2C]	0.025	ug/L	EPA 8095
Nitroglycerin [2C]	0.025	ug/L	EPA 8095
1,3-Dinitrobenzene [2C]	0.025	ug/L	EPA 8095
2,6-Dinitrotoluene [2C]	0.025	ug/L	EPA 8095
2,4-Dinitrotoluene [2C]	0.025	ug/L	EPA 8095
1,3,5-Trinitrobenzene [2C]	0.025	ug/L	EPA 8095
2,4,6-Trinitrotoluene [2C]	0.025	ug/L	EPA 8095
PETN [2C]	0.025	ug/L	EPA 8095
RDX [2C]	0.025	ug/L	EPA 8095
4-Amino-2,6-dinitrotoluene	0.050	ug/L	EPA 8095
4-Amino-2,6-dinitrotoluene [2C]	0.050	ug/L	EPA 8095
3,5-Dinitroaniline [2C]	0.025	ug/L	EPA 8095
2-Amino-4,6-dinitrotoluene [2C]	0.025	ug/L	EPA 8095
Tetryl [2C]	0.025	ug/L	EPA 8095
HMX [2C]	0.025	ug/L	EPA 8095

ORGANIC ANALYSIS DATA SHEET

PW-868-20180119

Laboratory: Pace Analytical - Madison SDG: A180310
 Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
 Matrix: Water Laboratory ID: A180310-01 File ID: 014B1401.D.Report.TXT
 Sampled: 01/19/18 10:15 Prepared: 01/23/18 12:41 Analyzed: 01/23/18 20:23
 Solids: Preparation: EPA 3511 Initial/Final: 400 mL / 10 mL
 Batch: A801121 Sequence: A8A2305 Calibration: A180120 Instrument: 3336A52146

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
35572-78-2	2-Amino-4,6-dinitrotoluene [2C]	1	0.025	U
19406-51-0	4-Amino-2,6-dinitrotoluene	1	0.050	U
618-87-1	3,5-Dinitroaniline [2C]	1	0.025	U
99-65-0	1,3-Dinitrobenzene [2C]	1	0.025	U
606-20-2	2,6-Dinitrotoluene [2C]	1	0.025	U
121-14-2	2,4-Dinitrotoluene [2C]	1	0.025	U
2691-41-0	HMX [2C]	1	0.025	U
55-63-0	Nitroglycerin [2C]	1	0.025	U
99-08-1	3-Nitrotoluene	1	0.025	U
99-99-0	4-Nitrotoluene [2C]	1	0.025	U
78-11-5	PETN [2C]	1	0.025	U
121-82-4	RDX [2C]	1	0.025	U
479-45-8	Tetryl [2C]	1	0.025	U
99-35-4	1,3,5-Trinitrobenzene [2C]	1	0.025	U
118-96-7	2,4,6-Trinitrotoluene [2C]	1	0.025	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,2'-Dinitrobiphenyl	1.000	1.02	102	85.3 - 122	
2,2'-Dinitrobiphenyl [2C]	1.000	1.12	112	86.3 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1-Bromo-4-nitrobenzene	440866	4.289	263114	4.289	
1-Bromo-4-nitrobenzene [2C]	217270	4.087	119313	4.086	

=====

Acq. Operator	: JJK	Seq. Line	: 14
Acq. Instrument	: 3337G12416	Location	: Vial 14
Injection Date	: 1/23/2018 8:30:28 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

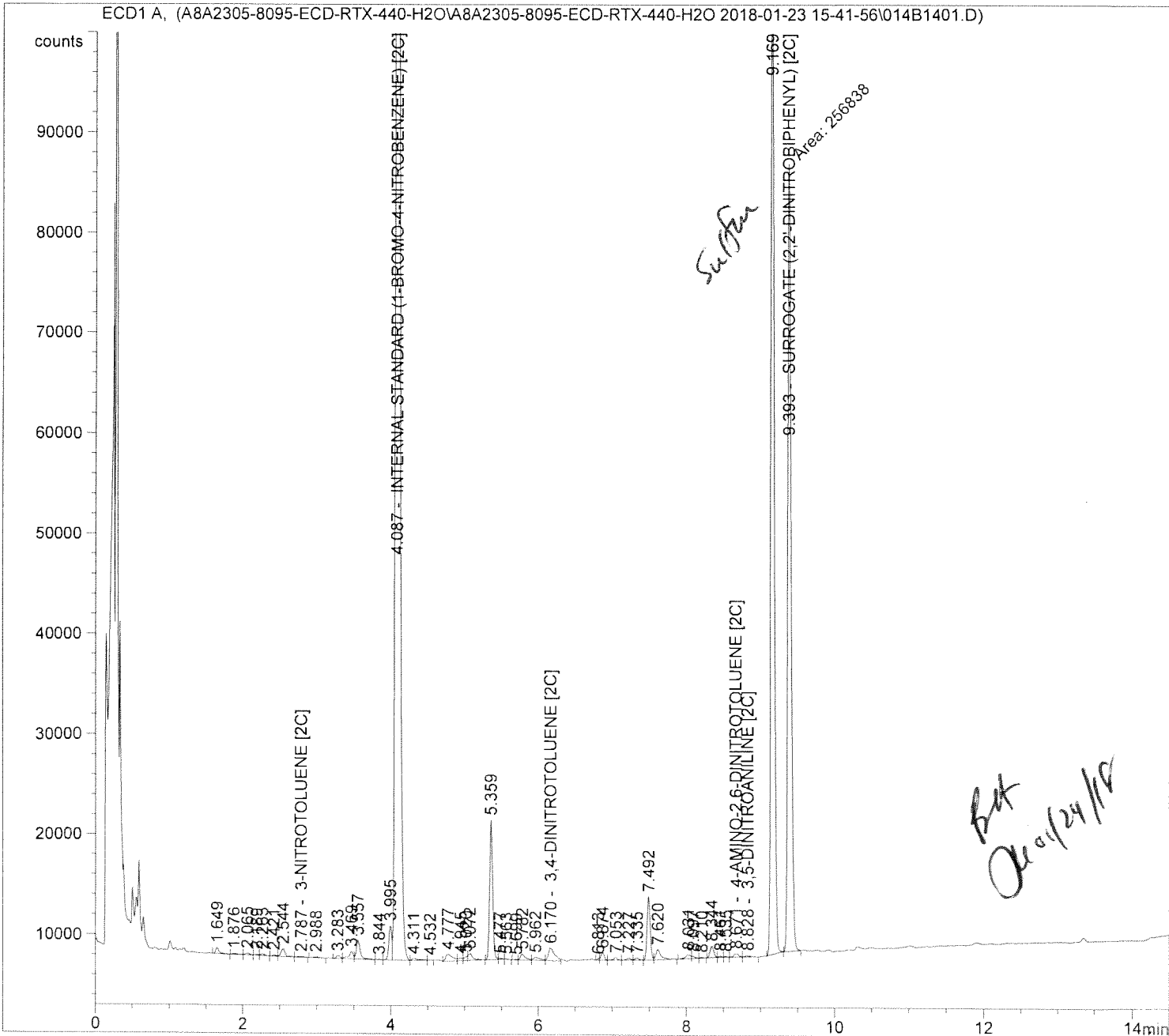
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : PW-868-20180119



Sample Info : PW-868-20180119

Internal Standard Report

#

1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
---	------------	---

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.777	1		1	-	-	-		NITROBENZENE [2C]
2.447	1		1	-	-	-		2-NITROTOLUENE [2C]
2.787	1	VB	1	74.68555	3.24420	1.39397e-4		3-NITROTOLUENE [2C] <i>nc</i>
2.967	1		1	-	-	-		4-NITROTOLUENE [2C]
4.087	1	VB +I	1	2.17270e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C] ✓
4.478	1		1	-	-	-		NITROGLYCERIN [2C]
5.190	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.250	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.880	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.170	1	VV	1	1274.43213	4.40868e-1	3.23248e-4		3,4-DINITROTOLUENE [2C] <i>nc</i>
7.457	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.703	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.761	1		1	-	-	-		PETN [2C]
8.320	1		1	-	-	-		RDX [2C]
8.671	1	BV	1	341.24884	6.24499e-1	1.22607e-4		4-AMINO-2,6-DINITROTOLUENE [2C] <i>nc</i>
8.828	1	VB	1	132.11086	6.56300e-1	4.98829e-5		3,5-DINITROANILINE [2C] ✓
9.012	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	MM +	1	7.84487e4	9.91501e-1	4.47496e-2		SURROGATE (2,2'-DINITROBIPHENYL) [2C] ✓
9.870	1		1	-	-	-		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 14
Acq. Instrument	: 3337G12416	Location	: Vial 14
Injection Date	: 1/23/2018 8:30:28 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : PW-868-20180119

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.837	1		1	-	-	-		HMX [2C]

M
1/24/18

Totals without ISTD(s) : 4.53847e-2

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====

*** End of Report ***



Sample Name: A180310-01

```

=====
Acq. Operator   : JJK                      Seq. Line :   14
Acq. Instrument : 3336A52146                Location  : Vial 14
Injection Date  : 1/23/2018 8:23:27 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : PW-868-20180119
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

----|-----|-----
1   1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.163	1		1	-	-	-		NITROBENZENE
2.848	1		1	-	-	-		2-NITROTOLUENE
3.165	1		1	-	-	-		3-NITROTOLUENE
3.310	1		1	-	-	-		4-NITROTOLUENE
4.289	1	FM +I	1	4.40866e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.578	1		1	-	-	-		NITROGLYCERIN
5.197	1		1	-	-	-		1,3-DINITROBENZENE
5.330	1		1	-	-	-		2,6-DINITROTOLUENE
5.900	1	MM	1	130.83427	4.35078e-1	1.61396e-5		2,4-DINITROTOLUENE <i>nc</i>
6.289	1		1	-	-	-		3,4-DINITROTOLUENE
6.977	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.134	1	MM	1	429.47287	4.64815e-1	5.66003e-5		2,4,6-TRINITROTOLUENE <i>nc</i>
7.778	1	VB	1	277.15213	1.93535	1.52083e-4		PETN <i>nc</i>
8.091	1		1	-	-	-		RDX
8.633	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE
8.691	1	VV	1	1806.80676	4.27538e-1	2.19023e-4		3,5-DINITROANILINE ✓
8.967	1	FM	1	879.85925	4.18124e-1	1.04309e-4		2-AMINO-4,6-DINITROTOLUENE
9.459	1	BB +	1	1.58665e5	9.10067e-1	4.09410e-2		SURROGATE (2,2'-DINITROBIPHENYL) ✓

=====

Acq. Operator	: JJK	Seq. Line	: 14
Acq. Instrument	: 3336A52146	Location	: Vial 14
Injection Date	: 1/23/2018 8:23:27 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : PW-868-20180119

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
9.562	1		1	-	-	-		TETRYL
12.190	1		1	-	-	-		HMX

Totals without ISTD(s) : 4.14892e-2

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

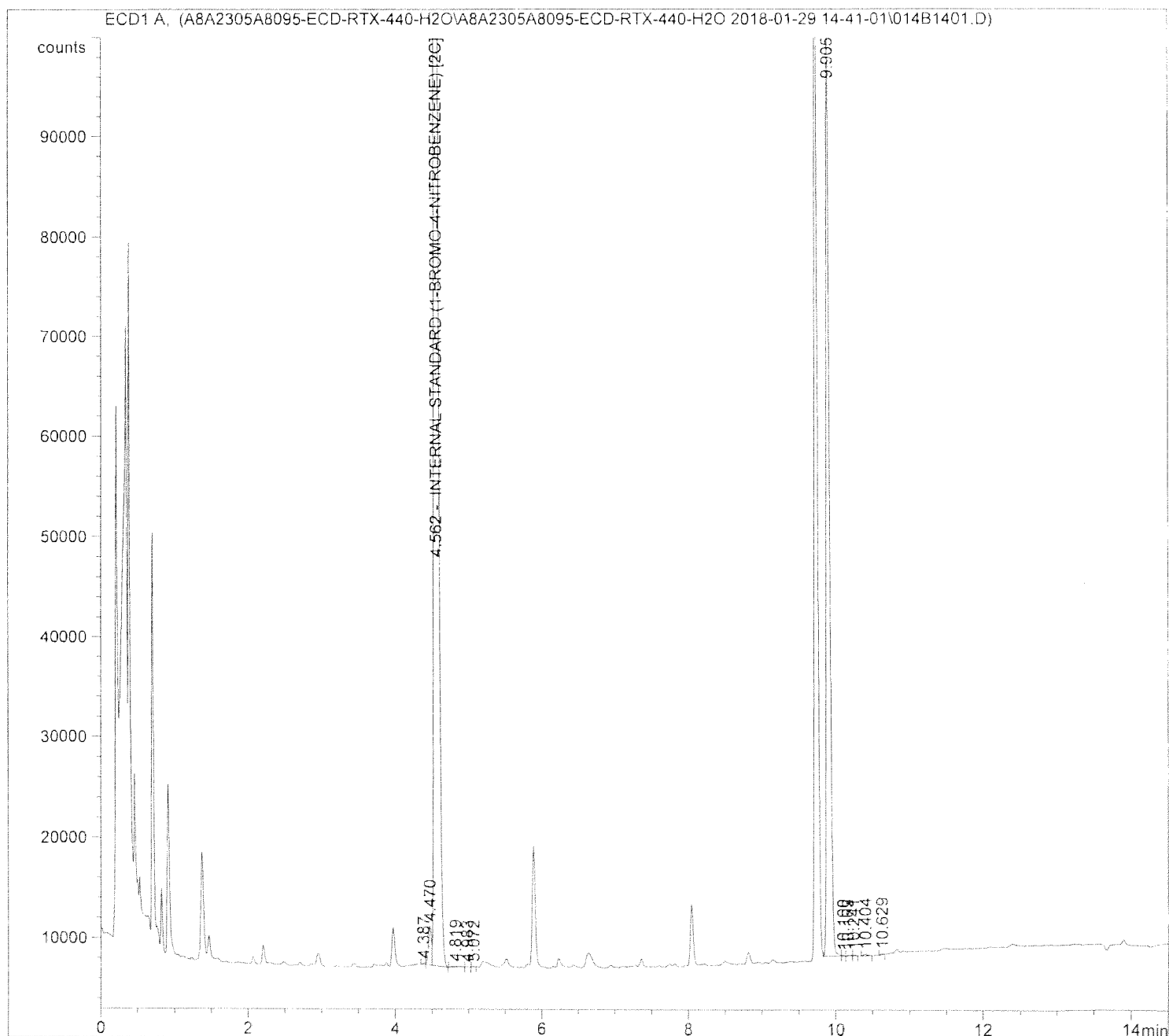
=====

*** End of Report ***

Q1/24/18

```
=====
Acq. Operator   : JJK                               Seq. Line :   14
Acq. Instrument : 3337G12416                         Location  : Vial 14
Injection Date  : 1/29/2018 7:25:44 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : PW-868-20180119



Sample Name: A180310-01

```

=====
Acq. Operator   : JJK                               Seq. Line :   14
Acq. Instrument : 3337G12416                         Location  : Vial 14
Injection Date  : 1/29/2018 7:25:44 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====

```

Sample Info : PW-868-20180119

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

-----|-----|-----
1      1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.562	1	VB +I	1	2.37262e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.361	1		1	-	-	-		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

```

=====
*** End of Report ***
=====

```

ORGANIC ANALYSIS DATA SHEET

BD20180119

Laboratory: Pace Analytical - Madison SDG: A180310
 Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
 Matrix: Water Laboratory ID: A180310-02 File ID: 015B1501.D.Report.TXT
 Sampled: 01/19/18 00:00 Prepared: 01/23/18 12:41 Analyzed: 01/23/18 20:44
 Solids: Preparation: EPA 3511 Initial/Final: 400 mL / 10 mL
 Batch: A801121 Sequence: A8A2305 Calibration: A180120 Instrument: 3336A52146

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
35572-78-2	2-Amino-4,6-dinitrotoluene [2C]	1	0.025	U
19406-51-0	4-Amino-2,6-dinitrotoluene [2C]	1	0.050	U
618-87-1	3,5-Dinitroaniline [2C]	1	0.025	U
99-65-0	1,3-Dinitrobenzene [2C]	1	0.025	U
606-20-2	2,6-Dinitrotoluene [2C]	1	0.025	U
121-14-2	2,4-Dinitrotoluene [2C]	1	0.025	U
2691-41-0	HMX [2C]	1	0.025	U
55-63-0	Nitroglycerin [2C]	1	0.025	U
99-08-1	3-Nitrotoluene	1	0.025	U
99-99-0	4-Nitrotoluene [2C]	1	0.025	U
78-11-5	PETN [2C]	1	0.025	U
121-82-4	RDX [2C]	1	0.025	U
479-45-8	Tetryl [2C]	1	0.025	U
99-35-4	1,3,5-Trinitrobenzene [2C]	1	0.025	U
118-96-7	2,4,6-Trinitrotoluene [2C]	1	0.025	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,2'-Dinitrobiphenyl	1.000	1.05	105	85.3 - 122	
2,2'-Dinitrobiphenyl [2C]	1.000	1.12	112	86.3 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1-Bromo-4-nitrobenzene	454287	4.289	263114	4.289	
1-Bromo-4-nitrobenzene [2C]	226276	4.087	119313	4.086	

Sample Name: A180310-02

=====

Acq. Operator : JJK Seq. Line : 15
Acq. Instrument : 3337G12416 Location : Vial 15
Injection Date : 1/23/2018 8:52:17 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

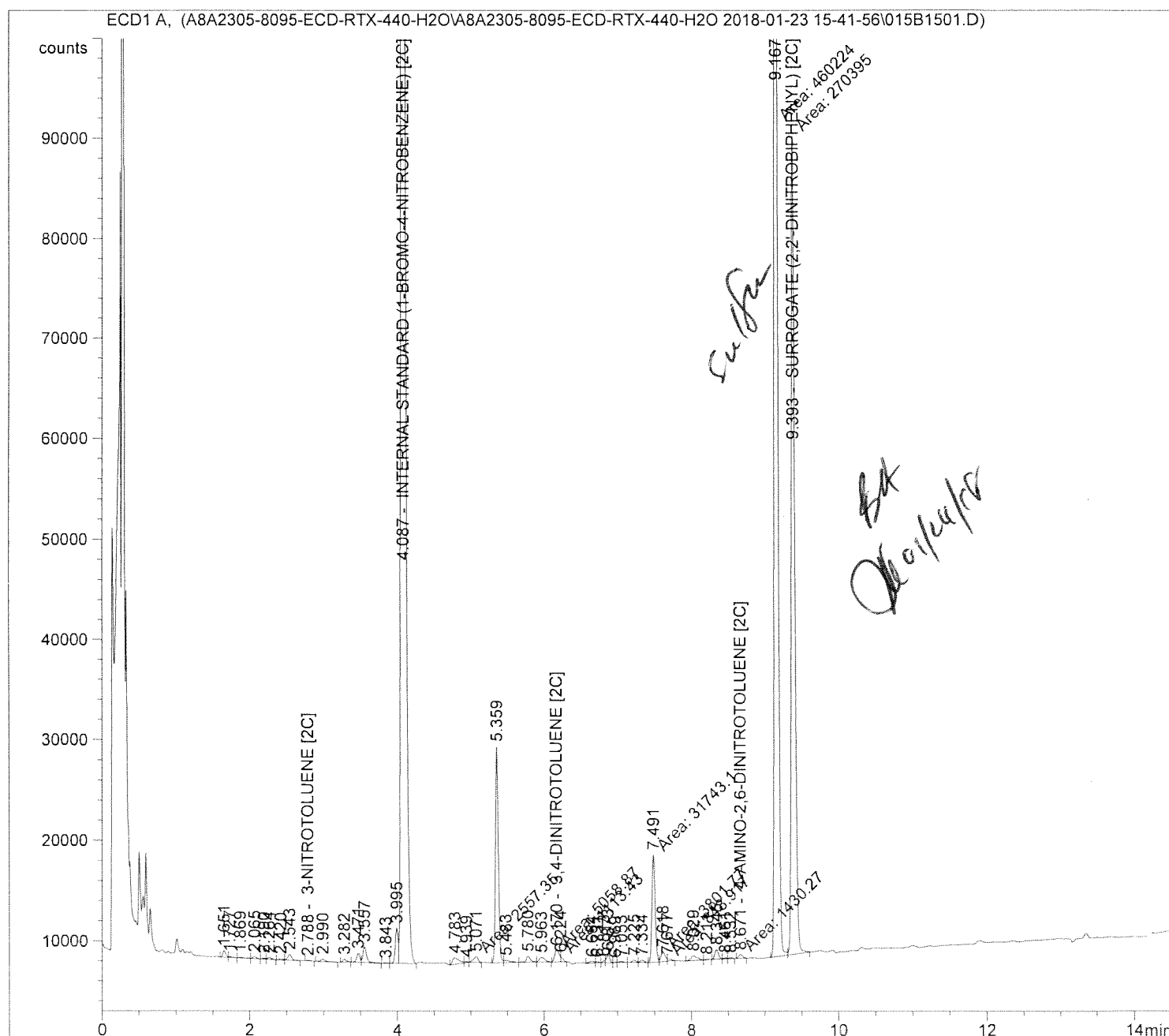
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : BD20180119



=====

Acq. Operator	: JJK	Seq. Line	: 15
Acq. Instrument	: 3337G12416	Location	: Vial 15
Injection Date	: 1/23/2018 8:52:17 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : BD20180119

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.777	1		1	-	-	-		NITROBENZENE [2C]
2.447	1		1	-	-	-		2-NITROTOLUENE [2C]
2.788	1	BB	1	35.16975	3.05406	5.93359e-5		3-NITROTOLUENE [2C] <i>mc</i>
2.967	1		1	-	-	-		4-NITROTOLUENE [2C]
4.087	1	VB +I	1	2.26276e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C] ✓
4.477	1		1	-	-	-		NITROGLYCERIN [2C]
5.190	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.250	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.880	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.170	1	MF	1	1197.71045	4.36227e-1	2.88626e-4		3,4-DINITROTOLUENE [2C] <i>mc</i>
7.457	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.703	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.761	1		1	-	-	-		PETN [2C]
8.319	1		1	-	-	-		RDX [2C]
8.671	1	MM	1	360.02380	6.25442e-1	1.24391e-4		4-AMINO-2,6-DINITROTOLUENE [2C] <i>c</i>
8.837	1		1	-	-	-		3,5-DINITROANILINE [2C]
9.012	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	FM +	1	8.17141e4	9.91504e-1	4.47572e-2		SURROGATE (2,2'-DINITROBIPHENYL) ✓
9.870	1		1	-	-	-		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 15
Acq. Instrument	: 3337G12416	Location	: Vial 15
Injection Date	: 1/23/2018 8:52:17 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : BD20180119

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.837	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 4.52296e-2

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

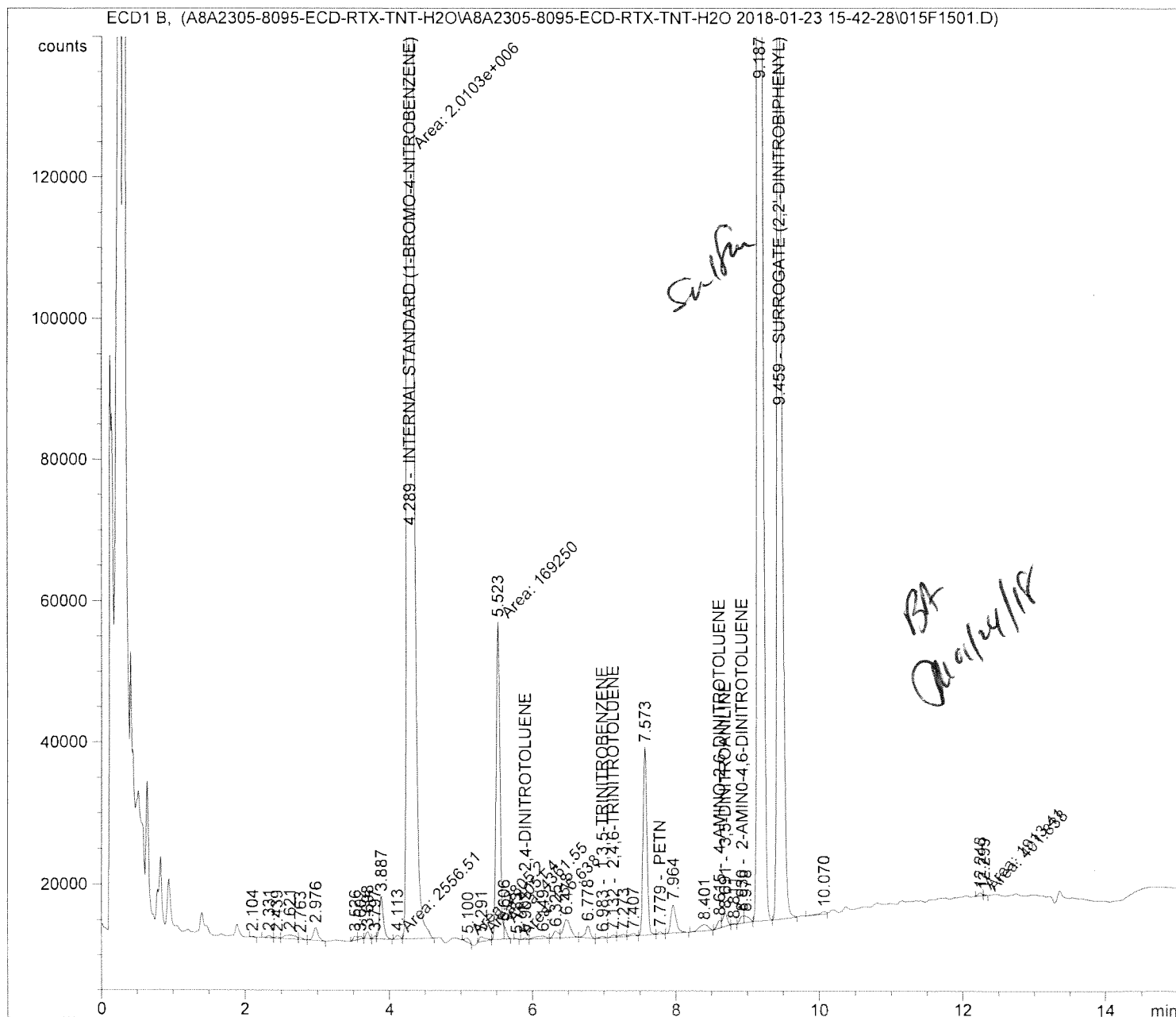
*** End of Report ***

Q101/24/18

=====

Acq. Operator	: JJK	Seq. Line	: 15
Acq. Instrument	: 3336A52146	Location	: Vial 15
Injection Date	: 1/23/2018 8:44:53 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M		
Last changed	: 11/7/2017 12:56:57 PM by JJK		
Analysis Method	: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 1/24/2018 2:39:30 PM by JJK (modified after loading)		
Method Info	: Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P). INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.		
Sample Info	: BD20180119		

=====



Sample Name: A180310-02

```

=====
Acq. Operator   : JJK                               Seq. Line :   15
Acq. Instrument : 3336A52146                         Location  : Vial 15
Injection Date  : 1/23/2018 8:44:53 PM                Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.

Sample Info     : BD20180119
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.163	1		1	-	-	-		NITROBENZENE
2.848	1		1	-	-	-		2-NITROTOLUENE
3.165	1		1	-	-	-		3-NITROTOLUENE
3.311	1		1	-	-	-		4-NITROTOLUENE
4.289	1	FM +I	1	4.54287e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.579	1		1	-	-	-		NITROGLYCERIN
5.197	1		1	-	-	-		1,3-DINITROBENZENE
5.331	1		1	-	-	-		2,6-DINITROTOLUENE
5.903	1	BB	1	235.07027	4.73800e-1	3.06459e-5		2,4-DINITROTOLUENE <i>mc</i>
6.290	1		1	-	-	-		3,4-DINITROTOLUENE
6.983	1	BB	1	274.17026	8.43511e-1	6.36342e-5		1,3,5-TRINITROBENZENE <i>mc</i>
7.132	1	BV	1	345.17642	4.52639e-1	4.29905e-5		2,4,6-TRINITROTOLUENE <i>mc</i>
7.779	1	VB	1	327.30035	1.94761	1.75399e-4		PETN <i>mc</i>
8.091	1		1	-	-	-		RDX
8.615	1	BV	1	1066.01807	4.66476e-1	1.36827e-4		4-AMINO-2,6-DINITROTOLUENE <i>c</i>
8.691	1	VB	1	1858.48059	4.27412e-1	2.18567e-4		3,5-DINITROANILINE <i>mc</i>
8.930	1	BV	1	1038.84875	4.25906e-1	1.21743e-4		2-AMINO-4,6-DINITROTOLUENE <i>mc</i>
9.459	1	BV +	1	1.67247e5	9.11480e-1	4.19455e-2		SURROGATE (2,2'-DINITROBIPHENYL) <i>mc</i>

Sample Name: A180310-02

```
=====
Acq. Operator   : JJK                      Seq. Line :   15
Acq. Instrument : 3336A52146                Location  : Vial 15
Injection Date  : 1/23/2018 8:44:53 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : BD20180119
=====
```

```
=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
  [min]      used [counts]    ratio
-----|---|-----|-----|-----|-----|---|-----
   9.562   1      1      -      -      -      -   TETRYL
  12.191   1      1      -      -      -      -   HMX
```

Totals without ISTD(s) : 4.27353e-2

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

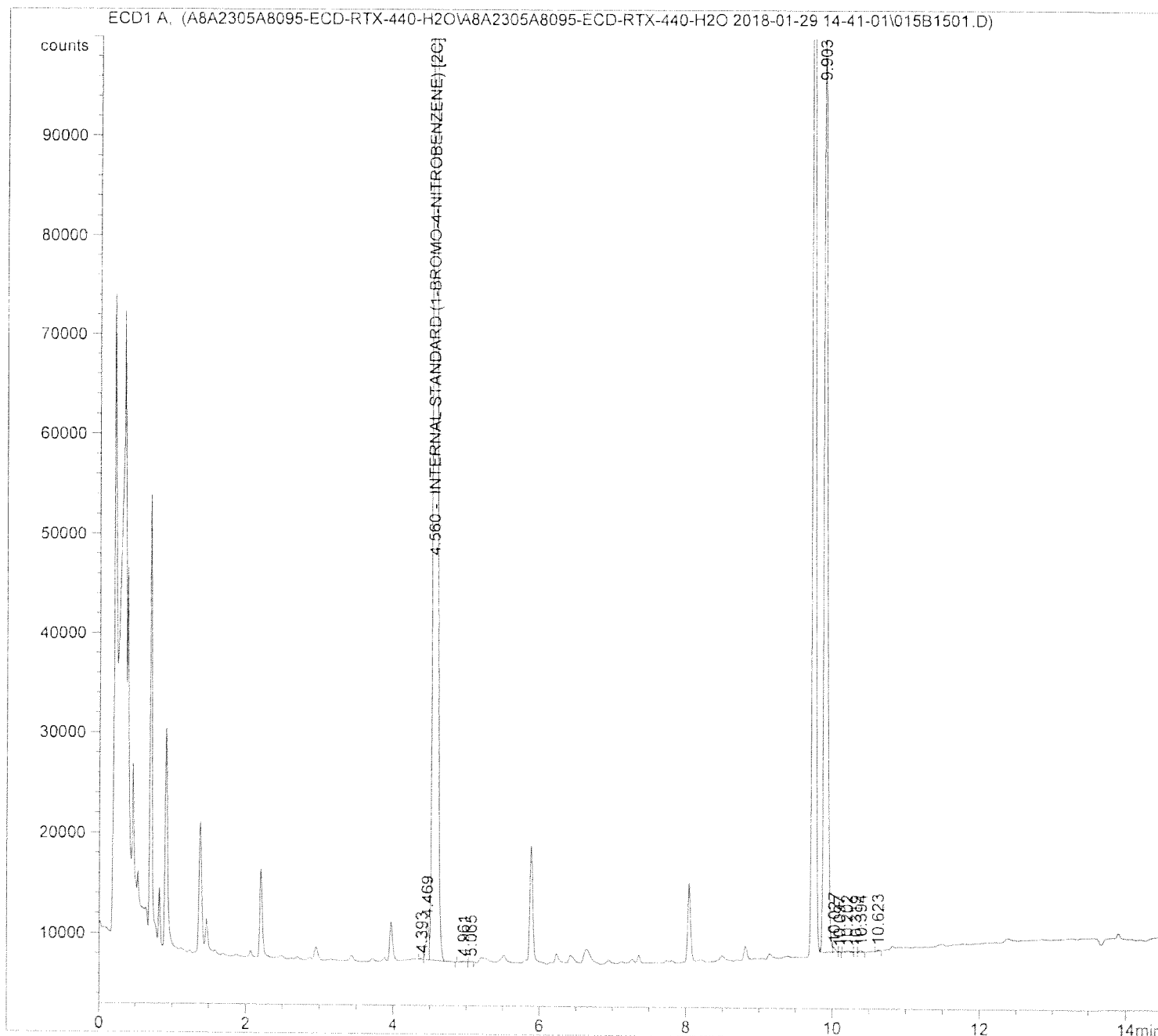
Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

Sample Name: A180310-02

```
=====
Acq. Operator   : JJK                               Seq. Line :   15
Acq. Instrument : 3337G12416                         Location  : Vial 15
Injection Date  : 1/29/2018 7:47:32 PM                Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.
```

Sample Info : BD20180119



Sample Name: A180310-02

```
=====
Acq. Operator   : JJK                               Seq. Line :   15
Acq. Instrument : 3337G12416                         Location  : Vial 15
Injection Date  : 1/29/2018 7:47:32 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
```

Sample Info : BD20180119

Internal Standard Report

```
Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
  1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.560	1	VB +I	1	2.29612e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.357	1		1	-	-	-		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

01/31/18

PREPARATION BATCH SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Batch: A801121

Batch Matrix: Water

Preparation: EPA 3511

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
PW-868-20180119	A180310-01	01/23/18 12:41	400.00	10.00
BD20180119	A180310-02	01/23/18 12:41	400.00	10.00
Blank	A801121-BLK1	01/23/18 12:41	400.00	10.00
LCS	A801121-BS1	01/23/18 12:41	400.00	10.00
PW-868-20180119	A801121-MS1	01/23/18 12:41	400.00	10.00
PW-868-20180119	A801121-MSD1	01/23/18 12:41	400.00	10.00

PREPARATION BENCH SHEET

A801121

Pace Analytical - Madison

Printed: 1/23/2018 2:13:45PM

Matrix: Water

Prepared using: EXPLOSIVES-GCLC - EPA 3511

Surrogate used: A700214

Lab Number	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	Spike ul	Surrogate ul	Sample Name	Extraction Comments
A180208-07	8095 ECD Full List	01/23/2018 12:41	400	10					PT-EXP-WP	400uL ADDED TO SAMPLE BO
A180310-01	8095 ECD Full List	01/23/2018 12:41	400	10					PW-868-20180119	report to RL
A180310-02	8095 ECD Full List	01/23/2018 12:41	400	10					BD20180119	report to RL
A801121-BLK1 QC		01/23/2018 12:41	400	10					Blank	
A801121-BS1 QC		01/23/2018 12:41	400	10	A701592		100	40	LCS-RWJ	
A801121-BS2 QC		01/23/2018 12:41	400	10	A701592		100	40	LCS-RWJ	
A801121-BS3 QC		01/23/2018 12:41	400	10	A701592		100	40	LCS-RWJ	
A801121-BS4 QC		01/23/2018 12:41	400	10	A701592		100	40	LCS-RWJ	
A801121-MS1 QC		01/23/2018 12:41	400	10	A701592	A180310-01	100	40	Matrix Spike	
A801121-MSD1 QC		01/23/2018 12:41	400	10	A701592	A180310-01	100	40	Matrix Spike Dup	

Balance ID 24, 42 Dispenser Checked? Yes Turbidity Temperature Checked? NA (VOCs Only) pH <2 NA

Pipette Used NA Repeater Used NA Syringe(s) Used SYR0010, SYR0017, SYR0019

Reagents:

Standard Number	Description	Lot Number
A701517	Ethyl Acetate	57115
A701584	Sodium Chloride	16J065213

NOTE I.S. ADDED TO ALL SAMPLES PRIOR TO EXTRACTION 250 UL OF A701380 AT 5.0 UG/ML
JT BAKER (A701706) USED FOR BLK/BS/PT

phenovc
WP Explosives
Storage: 4°C
Solvent: Acetate-01 to 4°C

Shubal
01/23/18

Spiked By

Date

Responsible Party

Date

METHOD BLANK DATA SHEET

EPA 8095

Laboratory: <u>Pace Analytical - Madison</u>	SDG: <u>A180310</u>	
Client: <u>Kennedy Jenks Consultants</u>	Project: <u>Ashland Kenvil - Kenvil, NJ</u>	
Matrix: <u>Water</u>	Laboratory ID: <u>A801121-BLK1</u>	File ID: <u>013F1301.D.Report.TXT</u>
Prepared: <u>01/23/18 12:41</u>	Preparation: <u>EPA 3511</u>	Initial/Final: <u>400 mL / 10 mL</u>
Analyzed: <u>01/23/18 20:02</u>	Instrument: <u>3336A52146</u>	
Batch: <u>A801121</u>	Sequence: <u>A8A2305</u>	Calibration: <u>A180120</u>

CAS NO.	COMPOUND	CONC. (ug/L)	Q
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U
35572-78-2	2-Amino-4,6-dinitrotoluene [2C]	0.025	U
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U
19406-51-0	4-Amino-2,6-dinitrotoluene [2C]	0.050	U
618-87-1	3,5-Dinitroaniline	0.025	U
618-87-1	3,5-Dinitroaniline [2C]	0.025	U
99-65-0	1,3-Dinitrobenzene	0.025	U
99-65-0	1,3-Dinitrobenzene [2C]	0.025	U
606-20-2	2,6-Dinitrotoluene	0.025	U
606-20-2	2,6-Dinitrotoluene [2C]	0.025	U
121-14-2	2,4-Dinitrotoluene	0.025	U
121-14-2	2,4-Dinitrotoluene [2C]	0.025	U
2691-41-0	HMX	0.025	U
2691-41-0	HMX [2C]	0.025	U
55-63-0	Nitroglycerin	0.025	U
55-63-0	Nitroglycerin [2C]	0.025	U
99-08-1	3-Nitrotoluene	0.025	U
99-08-1	3-Nitrotoluene [2C]	0.025	U
99-99-0	4-Nitrotoluene	0.025	U
99-99-0	4-Nitrotoluene [2C]	0.025	U
78-11-5	PETN	0.025	U
78-11-5	PETN [2C]	0.025	U
121-82-4	RDX	0.025	U
121-82-4	RDX [2C]	0.025	U
479-45-8	Tetryl	0.025	U
479-45-8	Tetryl [2C]	0.025	U
99-35-4	1,3,5-Trinitrobenzene	0.025	U
99-35-4	1,3,5-Trinitrobenzene [2C]	0.025	U
118-96-7	2,4,6-Trinitrotoluene	0.025	U
118-96-7	2,4,6-Trinitrotoluene [2C]	0.025	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
----------------------------	--------------	-------------	-------	-----------	---

METHOD BLANK DATA SHEET

EPA 8095

Laboratory: Pace Analytical - Madison SDG: A180310
Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
Matrix: Water Laboratory ID: A801121-BLK1 File ID: 013F1301.D.Report.TXT
Prepared: 01/23/18 12:41 Preparation: EPA 3511 Initial/Final: 400 mL / 10 mL
Analyzed: 01/23/18 20:02 Instrument: 3336A52146
Batch: A801121 Sequence: A8A2305 Calibration: A180120

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,2'-Dinitrobiphenyl	1.000	1.08	108	85.3 - 122	
2,2'-Dinitrobiphenyl [2C]	1.000	1.12	112	86.3 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1-Bromo-4-nitrobenzene	389177	4.29	263114	4.289	
1-Bromo-4-nitrobenzene [2C]	208273	4.088	119313	4.086	

Sample Name: A801121-BLK1

=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3337G12416	Location	: Vial 13
Injection Date	: 1/23/2018 8:08:33 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

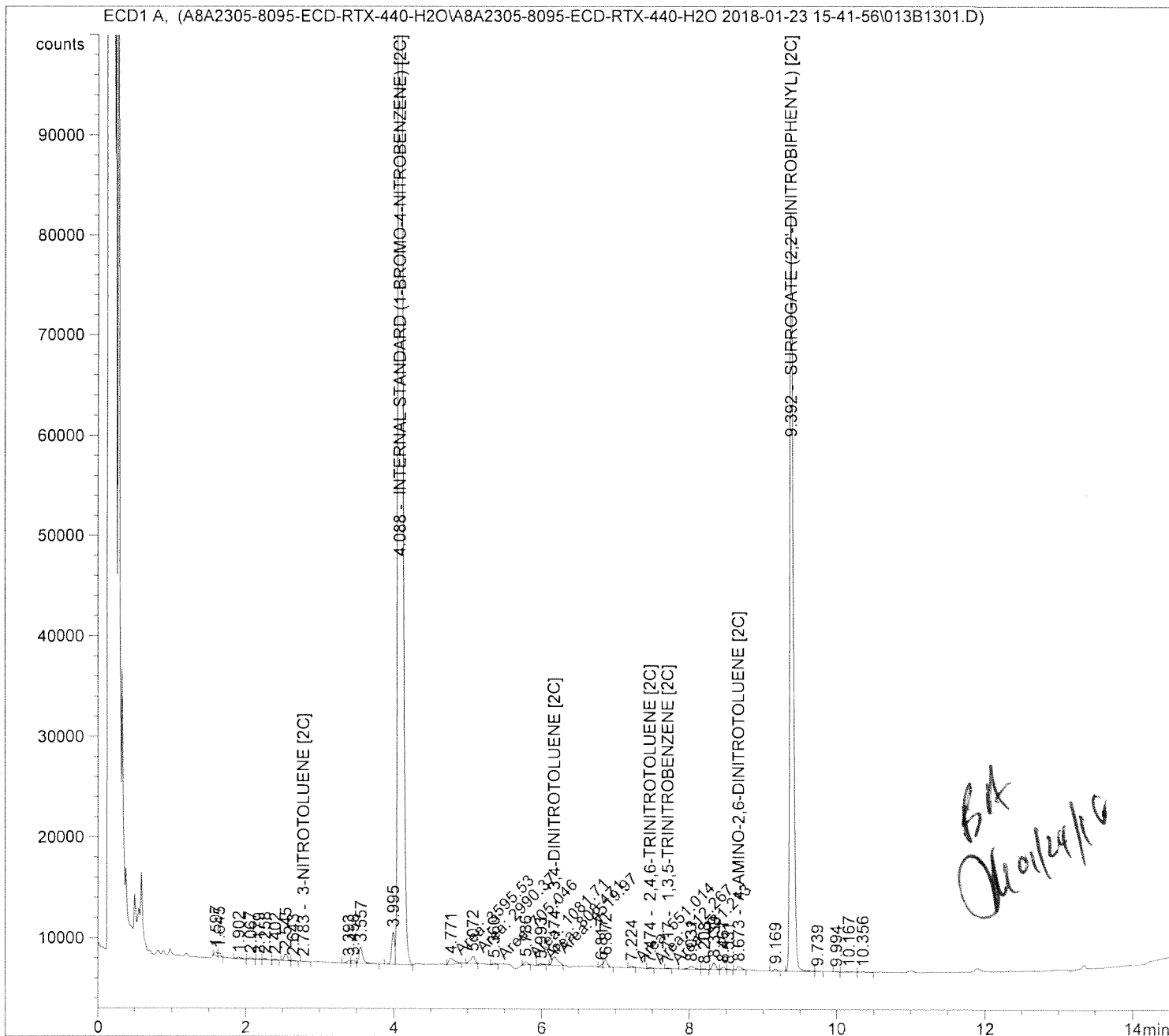
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Blank



=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3337G12416	Location	: Vial 13
Injection Date	: 1/23/2018 8:08:33 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.777	1		1	-	-	-		NITROBENZENE [2C]
2.447	1		1	-	-	-		2-NITROTOLUENE [2C]
2.783	1	BB	1	26.68640	3.00950	4.82016e-5		3-NITROTOLUENE [2C] <i>vc</i>
2.967	1		1	-	-	-		4-NITROTOLUENE [2C]
4.088	1	VB +I	1	2.08273e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C] <i>✓</i>
4.478	1		1	-	-	-		NITROGLYCERIN [2C]
5.190	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.250	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.880	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.174	1	MM	1	840.50677	4.24203e-1	2.13989e-4		3,4-DINITROTOLUENE [2C] <i>vc</i>
7.474	1	MM	1	85.47351	6.19439e-1	3.17765e-5		2,4,6-TRINITROTOLUENE [2C] <i>✓</i>
7.717	1	MM	1	85.29903	1.22353	6.26378e-5		1,3,5-TRINITROBENZENE [2C] <i>vc</i>
7.760	1		1	-	-	-		PETN [2C]
8.319	1		1	-	-	-		RDX [2C]
8.673	1	BB	1	341.27808	6.27590e-1	1.28547e-4		4-AMINO-2,6-DINITROTOLUENE [2C] <i>✓</i>
8.836	1		1	-	-	-		3,5-DINITROANILINE [2C]
9.010	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
9.392	1	BV +	1	7.54963e4	9.91576e-1	4.49291e-2		SURROGATE (2,2'-DINITROBIPHENYL) <i>✓</i>
9.869	1		1	-	-	-		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3337G12416	Location	: Vial 13
Injection Date	: 1/23/2018 8:08:33 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Blank

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.835	1		1	-	-	-		HMX [2C]

OK 01/24/18

Totals without ISTD(s) : 4.54143e-2

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3336A52146	Location	: Vial 13
Injection Date	: 1/23/2018 8:02:04 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

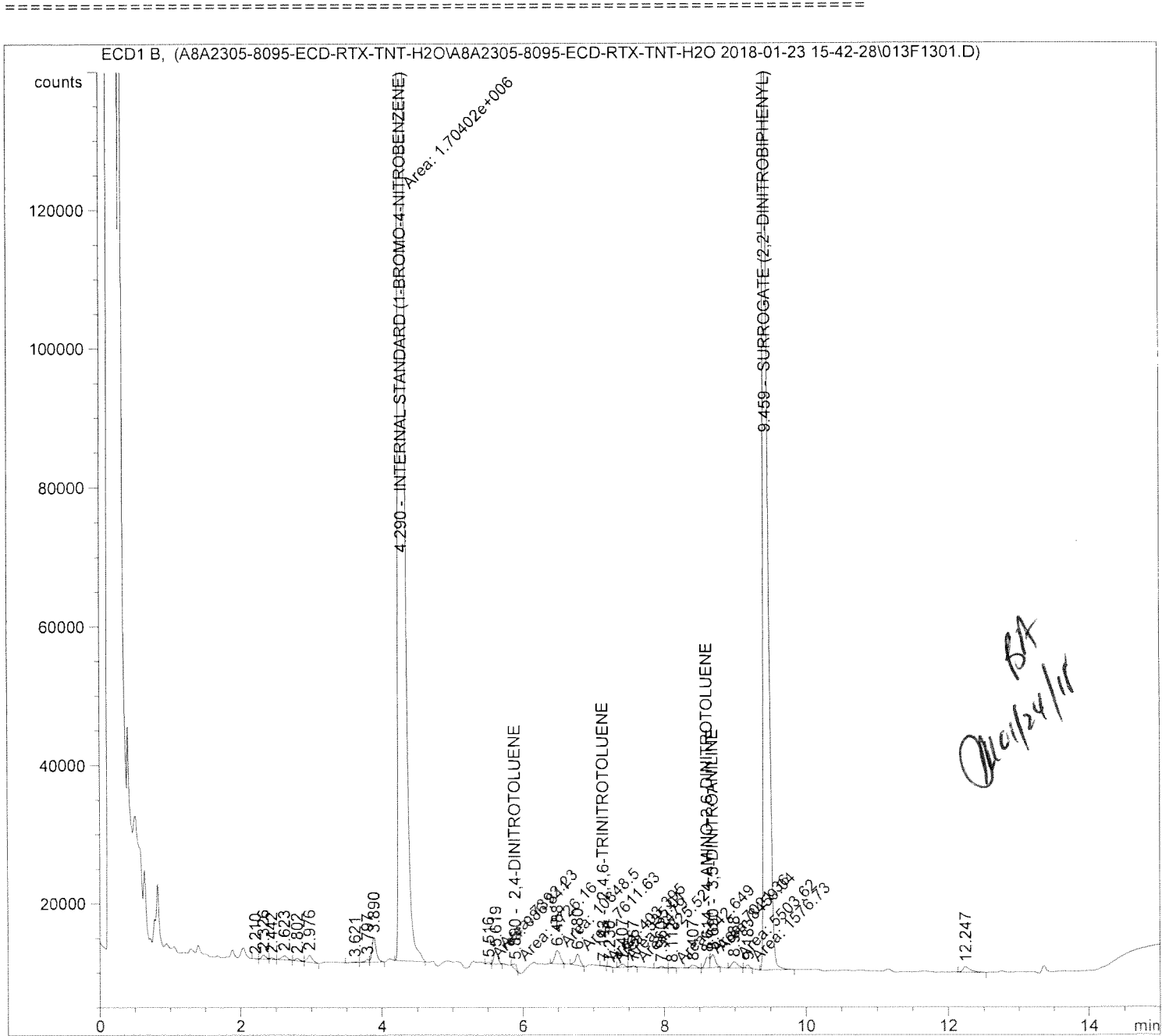
Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : Blank



=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3336A52146	Location	: Vial 13
Injection Date	: 1/23/2018 8:02:04 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.

Sample Info : Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 1:25:16 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.164	1		1	-	-	-		NITROBENZENE
2.849	1		1	-	-	-		2-NITROTOLUENE
3.166	1		1	-	-	-		3-NITROTOLUENE
3.312	1		1	-	-	-		4-NITROTOLUENE
4.290	1	MM +I	1	3.89177e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.580	1		1	-	-	-		NITROGLYCERIN
5.198	1		1	-	-	-		1,3-DINITROBENZENE
5.332	1		1	-	-	-		2,6-DINITROTOLUENE
5.890	1	MM	1	769.05408	5.81886e-1	1.43734e-4		2,4-DINITROTOLUENE <i>mc</i>
6.290	1		1	-	-	-		3,4-DINITROTOLUENE
6.978	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.143	1	MM	1	113.49818	4.08627e-1	1.48963e-5		2,4,6-TRINITROTOLUENE <i>mc</i>
7.771	1		1	-	-	-		PETN
8.091	1		1	-	-	-		RDX
8.614	1	MF	1	1609.36243	5.07146e-1	2.62150e-4		4-AMINO-2,6-DINITROTOLUENE <i>mc</i>
8.690	1	FM	1	1898.56738	4.39930e-1	2.68270e-4		3,5-DINITROANILINE <i>mc</i>
8.948	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.459	1	BB +	1	1.47251e5	9.13188e-1	4.31897e-2		SURROGATE (2,2'-DINITROBIPHENYL) <i>mc</i>

Sample Name: A801121-BLK1

=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3336A52146	Location	: Vial 13
Injection Date	: 1/23/2018 8:02:04 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : Blank

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
9.561	1		1	-	-	-		TETRYL
12.190	1		1	-	-	-		HMX

Totals without ISTD(s) : 4.38787e-2

Handwritten signature
01/24/18

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

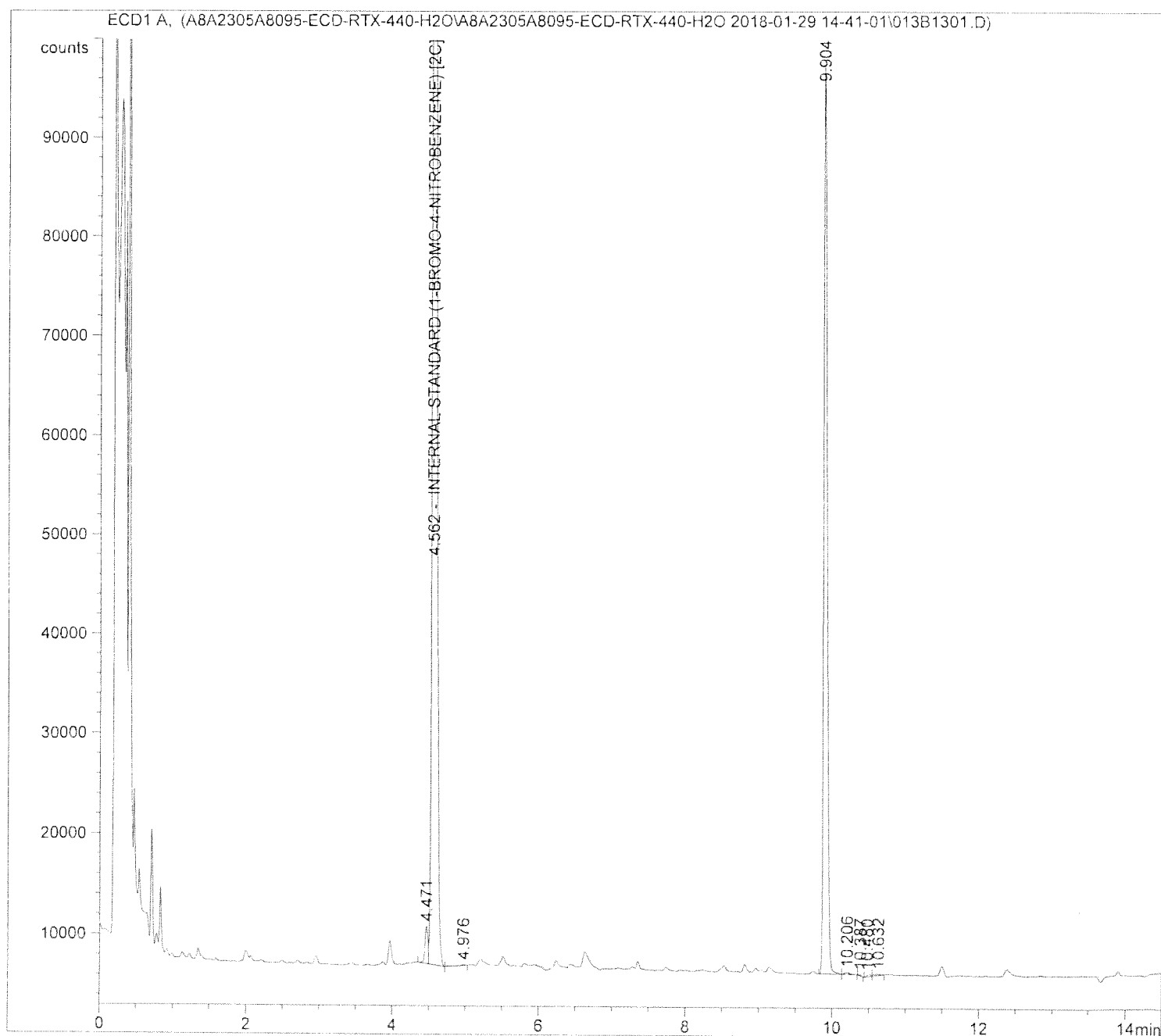
=====

*** End of Report ***

Sample Name: A801121-BLK1

```
=====
Acq. Operator   : JJK                               Seq. Line :   13
Acq. Instrument : 3337G12416                         Location  : Vial 13
Injection Date  : 1/29/2018 7:03:59 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : Blank



=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3337G12416	Location	: Vial 13
Injection Date	: 1/29/2018 7:03:59 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.562	1	VB +I	1	2.31592e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.362	1		1	-	-	-		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

*** End of Report ***

Handwritten signature
1/31/18

LCS / LCS DUPLICATE RECOVERY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Matrix: Water

Batch: A801121

Laboratory ID: A801121-BS1

Preparation: EPA 3511

Initial/Final: 400 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Amino-4,6-dinitrotoluene	2.500	2.56	102	77.4 - 118
2-Amino-4,6-dinitrotoluene [2C]	2.500	2.72	109	85.8 - 111
4-Amino-2,6-dinitrotoluene	2.500	2.58	103	80.6 - 116
4-Amino-2,6-dinitrotoluene [2C]	2.500	2.70	108	86.6 - 111
3,5-Dinitroaniline	2.500	2.60	104	70 - 130
3,5-Dinitroaniline [2C]	2.500	2.66	106	70 - 130
1,3-Dinitrobenzene	2.500	2.50	99.9	82.2 - 106
1,3-Dinitrobenzene [2C]	2.500	2.59	104	71.7 - 118
2,6-Dinitrotoluene	2.500	2.59	104	87.2 - 107
2,6-Dinitrotoluene [2C]	2.500	2.68	107	86.9 - 109
2,4-Dinitrotoluene	2.500	2.45	98.1	84.7 - 106
2,4-Dinitrotoluene [2C]	2.500	2.60	104	86.1 - 108
HMX	2.500	2.82	113	70 - 130
HMX [2C]	2.500	2.55	102	70 - 130
Nitroglycerin	2.500	2.53	101	70 - 130
Nitroglycerin [2C]	2.500	2.63	105	70 - 130
3-Nitrotoluene	2.500	2.75	110	82.9 - 118
3-Nitrotoluene [2C]	2.500	2.62	105	87.2 - 109
4-Nitrotoluene	2.500	2.73	109	90.5 - 120
4-Nitrotoluene [2C]	2.500	2.67	107	87.2 - 117
PETN	2.500	2.38	95.3	70 - 130
PETN [2C]	2.500	2.61	104	70 - 130
RDX	2.500	2.39	95.7	75.6 - 113
RDX [2C]	2.500	2.53	101	78.6 - 113
Tetryl	2.500	2.45	98.1	70 - 130
Tetryl [2C]	2.500	2.73	109	70 - 130
1,3,5-Trinitrobenzene	2.500	2.37	95.0	79.8 - 106
1,3,5-Trinitrobenzene [2C]	2.500	2.60	104	79 - 110
2,4,6-Trinitrotoluene	2.500	3.14	126	72.9 - 134
2,4,6-Trinitrotoluene [2C]	2.500	3.34	134	70.4 - 138

Sample Name: A801121-BS1

=====

Acq. Operator : JJK Seq. Line : 18
Acq. Instrument : 3337G12416 Location : Vial 18
Injection Date : 1/23/2018 9:58:46 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

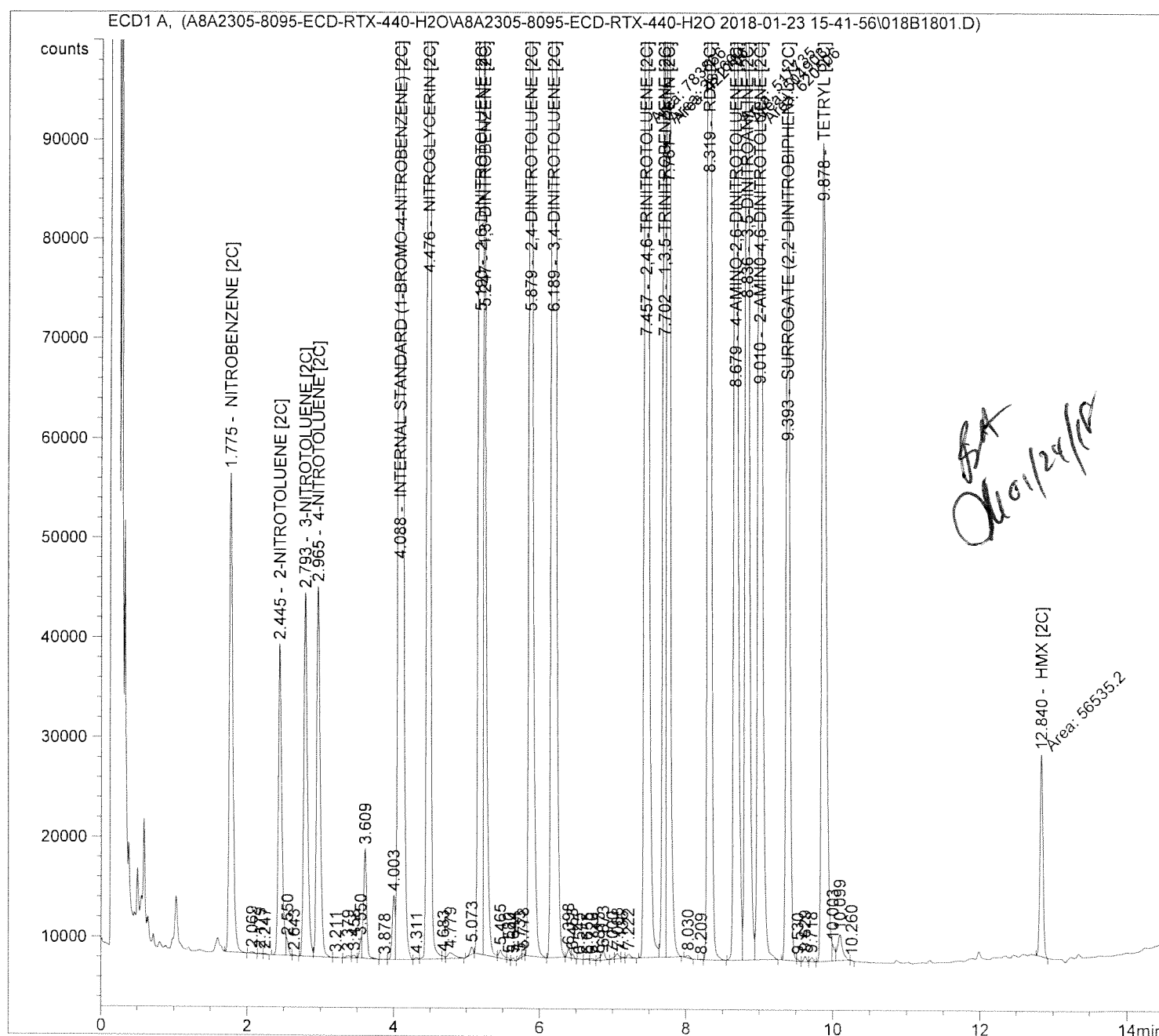
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : LCS-RWJ



=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3337G12416	Location	: Vial 18
Injection Date	: 1/23/2018 9:58:46 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : LCS-RWJ

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
1.775	1	BB	1	4.79841e4	3.75630	1.00054e-1		NITROBENZENE [2C]
2.445	1	BV	1	3.11297e4	6.06103	1.04737e-1		2-NITROTOLUENE [2C]
2.793	1	BV	1	3.63915e4	5.18143	1.04671e-1		3-NITROTOLUENE [2C]
2.965	1	VB	1	3.70873e4	5.19699	1.06993e-1		4-NITROTOLUENE [2C]
4.088	1	VB +I	1	2.25181e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.476	1	VV	1	2.52429e5	7.49748e-1	1.05059e-1		NITROGLYCERIN [2C]
5.190	1	BV	1	2.45847e5	7.84142e-1	1.07013e-1		2,6-DINITROTOLUENE [2C]
5.247	1	VV B	1	8.80717e4	2.11916	1.03604e-1		1,3-DINITROBENZENE [2C]
5.879	1	BB	1	1.30487e5	1.43327	1.03818e-1		2,4-DINITROTOLUENE [2C]
6.189	1	BB	1	2.59777e5	7.59724e-1	1.09556e-1		3,4-DINITROTOLUENE [2C]
7.457	1	MF	1	2.32553e5	1.03423	1.33511e-1		2,4,6-TRINITROTOLUENE [2C]
7.702	1	MF	1	9.77613e4	1.91743	1.04055e-1		1,3,5-TRINITROBENZENE [2C]
7.761	1	FM	1	1.33315e5	1.40820	1.04213e-1		PETN [2C]
8.319	1	BB	1	2.54502e5	7.17202e-1	1.01324e-1		RDX [2C]
8.679	1	MF	1	1.53724e5	1.26750	1.08160e-1		4-AMINO-2,6-DINITROTOLUENE [2C]
8.836	1	FM	1	1.53570e5	1.24697	1.06302e-1		3,5-DINITROANILINE [2C]
9.010	1	FM	1	1.81912e5	1.07629	1.08685e-1		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	BV +	1	8.65548e4	9.92708e-1	4.76969e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.878	1	BV	1	8.20772e4	1.98488	9.04344e-2		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3337G12416	Location	: Vial 18
Injection Date	: 1/23/2018 9:58:46 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : LCS-RWJ

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.840	1	MM	1	2.01484e4	9.12862	1.02099e-1		HMX [2C]

Totals without ISTD(s) : 1.95198

Mon 1/24/18

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

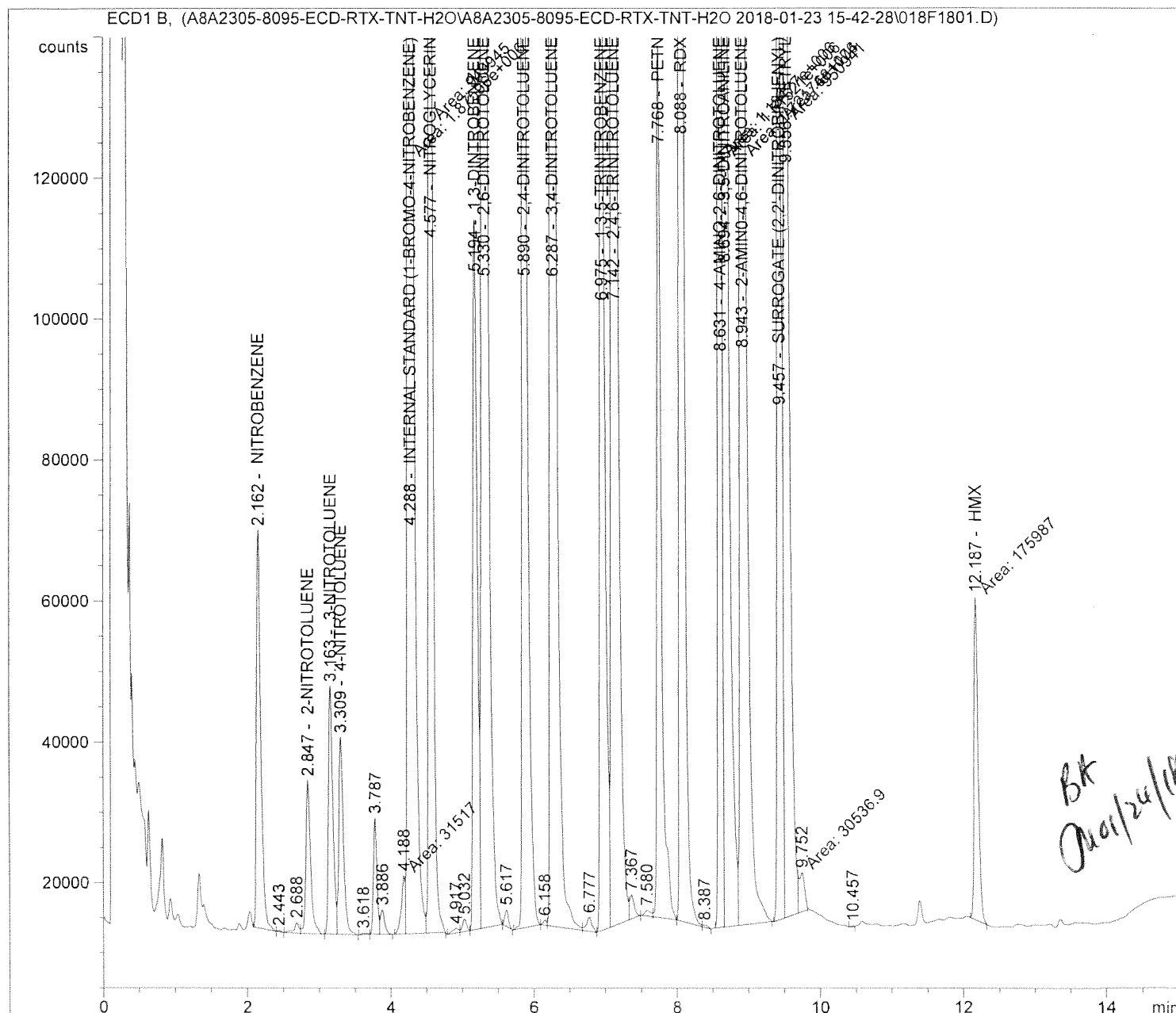
=====

*** End of Report ***

Sample Name: A801121-BS1

```
=====
Acq. Operator   : JJK                               Seq. Line :   18
Acq. Instrument : 3336A52146                         Location  : Vial 18
Injection Date  : 1/23/2018 9:49:37 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.
=====
```

Sample Info : LCS-RWJ



=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3336A52146	Location	: Vial 18
Injection Date	: 1/23/2018 9:49:37 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : LCS-RWJ

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 1:25:16 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.162	1	BB	1	5.64566e4	6.04320	1.01962e-1		NITROBENZENE
2.847	1	VB	1	2.17251e4	16.74756	1.08734e-1		2-NITROTOLUENE
3.163	1	BV	1	3.52131e4	10.44160	1.09882e-1		3-NITROTOLUENE
3.309	1	VB	1	2.80190e4	13.06065	1.09363e-1		4-NITROTOLUENE
4.288	1	FM +I	1	4.18268e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.577	1	FM	1	2.66861e5	1.26860	1.01173e-1		NITROGLYCERIN
5.194	1	BV	1	1.00899e5	3.31412	9.99328e-2		1,3-DINITROBENZENE
5.330	1	VB	1	4.44953e5	7.78503e-1	1.03521e-1		2,6-DINITROTOLUENE
5.890	1	BB	1	2.36784e5	1.38562	9.80509e-2		2,4-DINITROTOLUENE
6.287	1	VV	1	4.79721e5	7.17344e-1	1.02842e-1		3,4-DINITROTOLUENE
6.975	1	BV	1	1.71831e5	1.84941	9.49709e-2		1,3,5-TRINITROBENZENE
7.142	1	VV	1	4.30409e5	9.77899e-1	1.25785e-1		2,4,6-TRINITROTOLUENE
7.768	1	VB	1	1.23968e5	2.57360	9.53465e-2		PETN
8.088	1	BV	1	4.47871e5	7.14759e-1	9.56683e-2		RDX
8.631	1	MF	1	3.15776e5	1.09338	1.03182e-1		4-AMINO-2,6-DINITROTOLUENE
8.694	1	FM	1	3.42044e5	1.01892	1.04154e-1		3,5-DINITROANILINE
8.943	1	FM	1	3.60442e5	9.51247e-1	1.02467e-1		2-AMINO-4,6-DINITROTOLUENE
9.457	1	MF +	1	1.60671e5	9.14134e-1	4.38938e-2		SURROGATE (2,2'-DINITROBIPHENYL)

=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3336A52146	Location	: Vial 18
Injection Date	: 1/23/2018 9:49:37 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : LCS-RWJ

=====

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
9.556	1	MF	1	1.99373e5	1.64564	9.80520e-2		TETRYL
12.187	1	MM	1	4.57948e4	8.23719	1.12733e-1		HMX

Totals without ISTD(s) : 1.91171

1 Warnings or Errors :

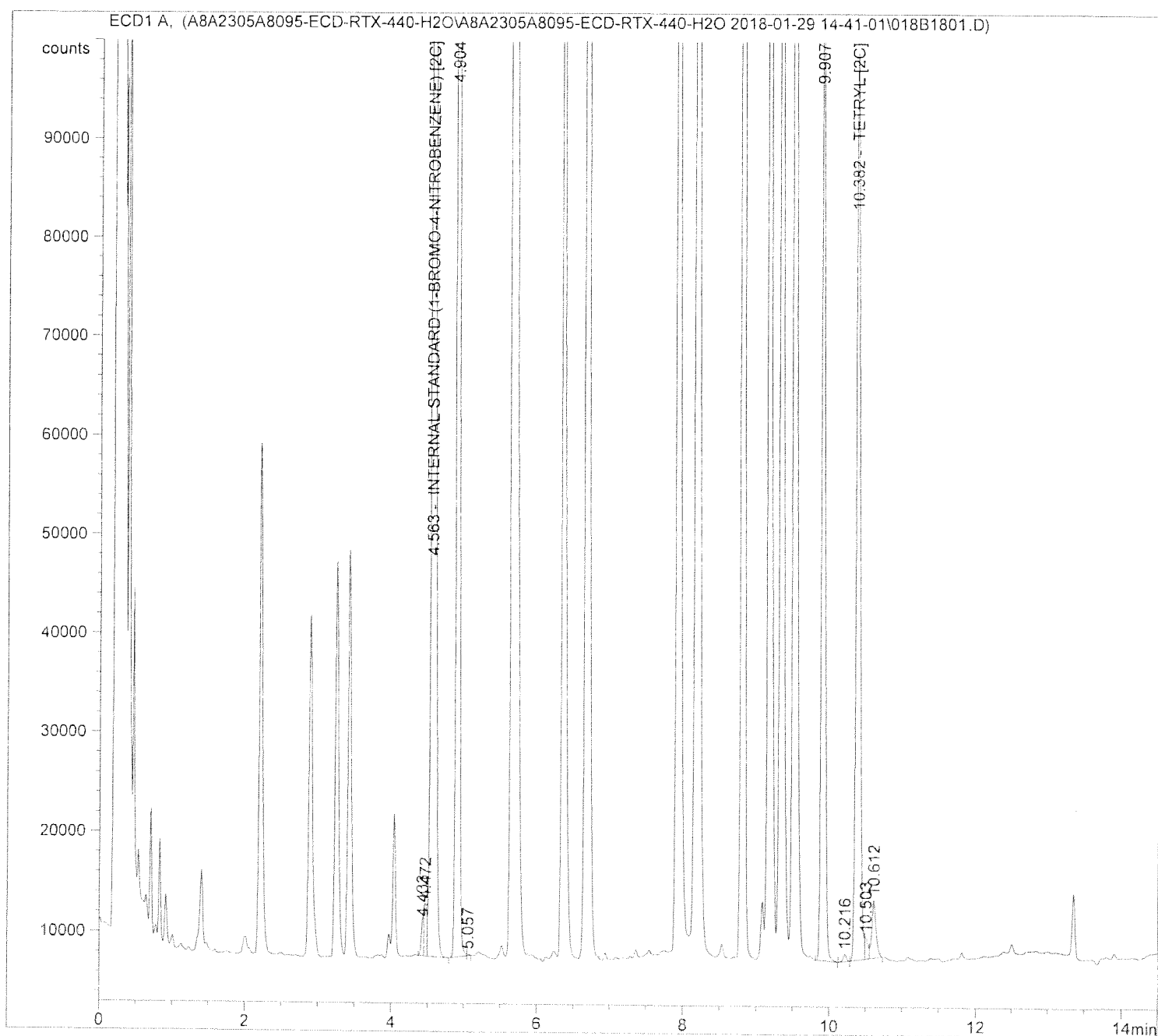
Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***


```
=====
Acq. Operator   : JJK                               Seq. Line :   18
Acq. Instrument : 3337G12416                         Location  : Vial 18
Injection Date  : 1/29/2018 8:53:34 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : LCS-RWJ
=====
```



Sample Name: A801121-BS1

```

=====
Acq. Operator   : JJK                               Seq. Line :   18
Acq. Instrument : 3337G12416                         Location  : Vial 18
Injection Date  : 1/29/2018 8:53:34 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : LCS-RWJ

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
  1   1.25000e-1   INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.563	1	VB +I	1	2.39235e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.382	1	BV	1	9.13470e4	2.28808	1.09207e-1		TETRYL [2C]

Totals without ISTD(s) : 1.09207e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

=====
*** End of Report ***

```

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8095

PW-868-20180119

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Matrix: Water

Batch: A801121

% Solids:

Source Sample Name: A180310-01

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
2-Amino-4,6-dinitrotoluene	2.500	ND	2.41	96.3		72.3 - 116
2-Amino-4,6-dinitrotoluene [2C]	2.500	ND	2.53	101		79.2 - 115
4-Amino-2,6-dinitrotoluene	2.500	ND	2.41	96.5		73.8 - 117
4-Amino-2,6-dinitrotoluene [2C]	2.500	ND	2.50	100		80.1 - 112
3,5-Dinitroaniline	2.500	0.00548	2.44	97.3		70 - 130
3,5-Dinitroaniline [2C]	2.500	0.00125	2.47	98.9		70 - 130
1,3-Dinitrobenzene	2.500	ND	2.40	96.0		71.8 - 109
1,3-Dinitrobenzene [2C]	2.500	ND	2.42	96.7		71.7 - 116
2,6-Dinitrotoluene	2.500	ND	2.48	99.1		85.9 - 106
2,6-Dinitrotoluene [2C]	2.500	ND	2.54	102		86.9 - 106
2,4-Dinitrotoluene	2.500	ND	2.41	96.3		84.6 - 105
2,4-Dinitrotoluene [2C]	2.500	ND	2.53	101		80.4 - 111
HMX	2.500	ND	3.34	134	M	70 - 130
HMX [2C]	2.500	ND	2.78	111		70 - 130
Nitroglycerin	2.500	ND	2.51	101		70 - 130
Nitroglycerin [2C]	2.500	ND	2.54	102		70 - 130
3-Nitrotoluene	2.500	ND	2.57	103		83.1 - 117
3-Nitrotoluene [2C]	2.500	0.00348	2.48	99.0		80.1 - 113
4-Nitrotoluene	2.500	ND	2.58	103		88.9 - 121
4-Nitrotoluene [2C]	2.500	ND	2.54	102		82.2 - 115
PETN	2.500	0.00380	2.26	90.3		70 - 130
PETN [2C]	2.500	ND	2.51	100		70 - 130
RDX	2.500	ND	2.25	90.2		73.7 - 111
RDX [2C]	2.500	ND	2.41	96.3		66.5 - 124
Tetryl	2.500	ND	2.31	92.4		70 - 130
Tetryl [2C]	2.500	ND	2.70	108		70 - 130
1,3,5-Trinitrobenzene	2.500	ND	2.20	88.2		72.6 - 110
1,3,5-Trinitrobenzene [2C]	2.500	ND	2.44	97.5		75.3 - 110
2,4,6-Trinitrotoluene	2.500	ND	2.99	120		68.8 - 135
2,4,6-Trinitrotoluene [2C]	2.500	ND	3.16	126		66.4 - 141

=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3337G12416	Location	: Vial 16
Injection Date	: 1/23/2018 9:14:34 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

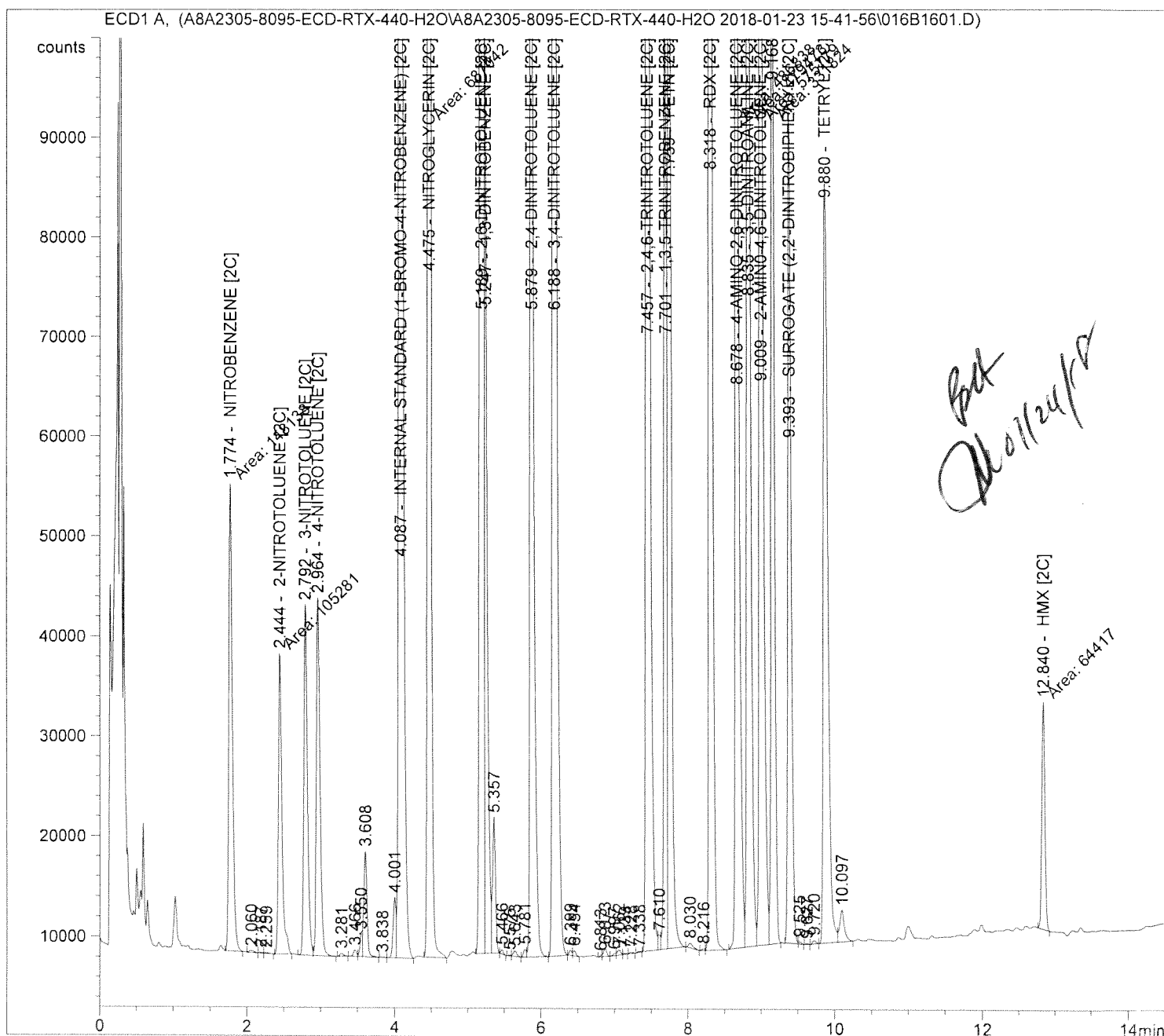
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Matrix Spike

=====



=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3337G12416	Location	: Vial 16
Injection Date	: 1/23/2018 9:14:34 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Matrix Spike

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount	Name
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.774	1	MM	1	4.67379e4	3.74406	9.60895e-2		NITROBENZENE [2C]
2.444	1	MM	1	3.00513e4	6.04513	9.97547e-2		2-NITROTOLUENE [2C]
2.792	1	VV	1	3.49764e4	5.16155	9.91333e-2		3-NITROTOLUENE [2C]
2.964	1	VB	1	3.57049e4	5.17890	1.01538e-1		4-NITROTOLUENE [2C]
4.087	1	VB +I	1	2.27638e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.475	1	MM	1	2.46956e5	7.48799e-1	1.01543e-1		NITROGLYCERIN [2C]
5.189	1	BV	1	2.37096e5	7.80349e-1	1.01596e-1		2,6-DINITROTOLUENE [2C]
5.247	1	VV B	1	8.33763e4	2.11217	9.67020e-2		1,3-DINITROBENZENE [2C]
5.879	1	VB	1	1.28958e5	1.42979	1.01248e-1		2,4-DINITROTOLUENE [2C]
6.188	1	BB	1	2.50700e5	7.56099e-1	1.04087e-1		3,4-DINITROTOLUENE [2C]
7.457	1	BV	1	2.23407e5	1.03079	1.26453e-1		2,4,6-TRINITROTOLUENE [2C]
7.701	1	VV	1	9.30052e4	1.90994	9.75419e-2		1,3,5-TRINITROBENZENE [2C]
7.759	1	VB	1	1.30110e5	1.40643	1.00484e-1		PETN [2C]
8.318	1	VB	1	2.44687e5	7.16959e-1	9.63320e-2		RDX [2C]
8.678	1	MF	1	1.44991e5	1.25730	1.00103e-1		4-AMINO-2,6-DINITROTOLUENE [2C]
8.835	1	MF	1	1.45339e5	1.23947	9.89199e-2		3,5-DINITROANILINE [2C]
9.009	1	MF	1	1.72117e5	1.06958	1.01088e-1		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	BV +	1	8.27461e4	9.91630e-1	4.50570e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.880	1	BV	1	7.58718e4	2.03658	8.48488e-2		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3337G12416	Location	: Vial 16
Injection Date	: 1/23/2018 9:14:34 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Matrix Spike

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.840	1	MM	1	2.26107e4	8.94201	1.11023e-1		HMX [2C]

Totals without ISTD(s) : 1.86354

OK 1/24/18

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

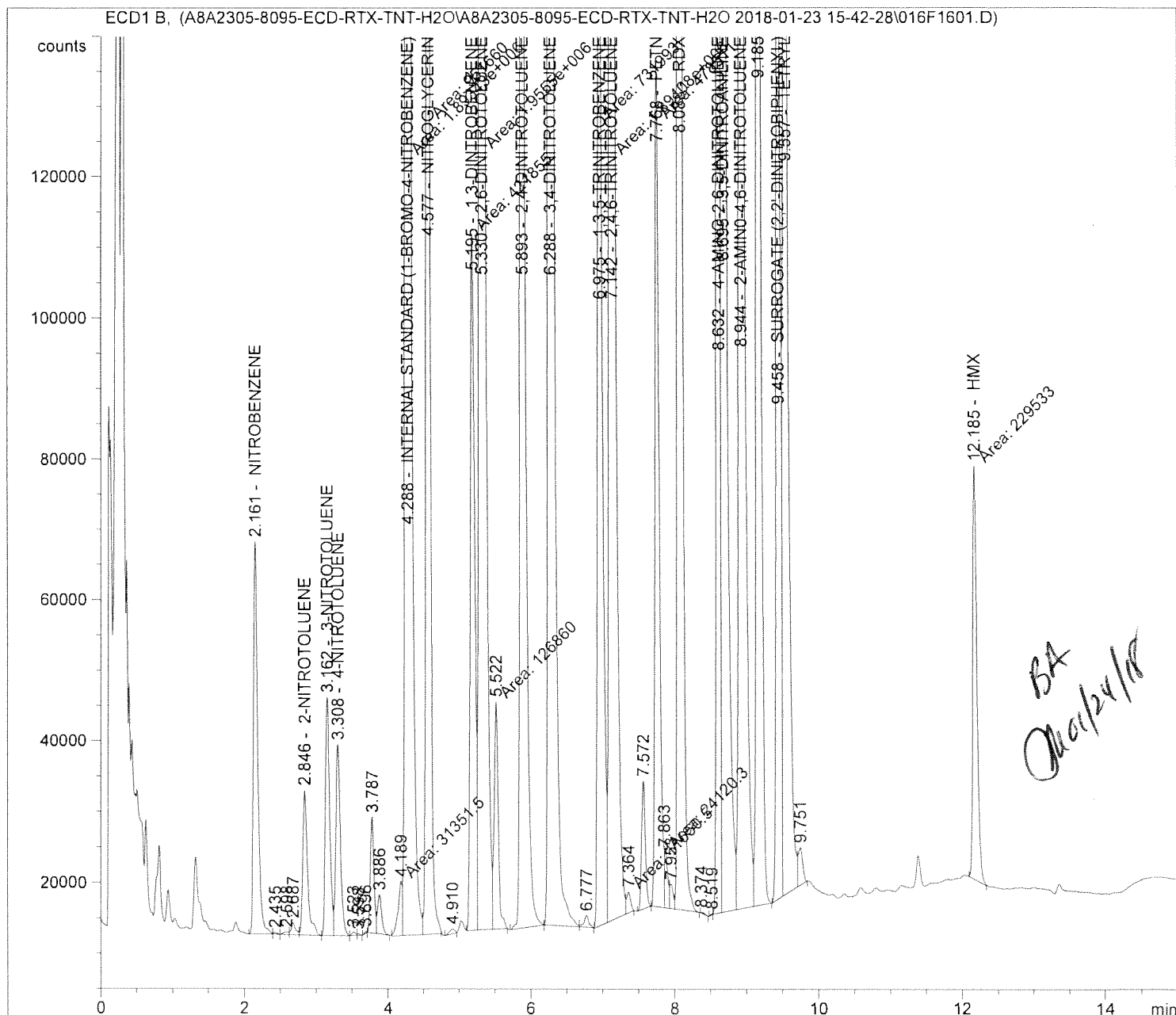
=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3336A52146	Location	: Vial 16
Injection Date	: 1/23/2018 9:06:30 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M		
Last changed	: 11/7/2017 12:56:57 PM by JJK		
Analysis Method	: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 1/24/2018 2:39:30 PM by JJK (modified after loading)		
Method Info	: Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P). INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.		
Sample Info	: Matrix Spike		

=====



Sample Name: A801121-MS1

=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3336A52146	Location	: Vial 16
Injection Date	: 1/23/2018 9:06:30 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : Matrix Spike

Internal Standard Report

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 1:25:16 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.161	1	BV	1	5.55170e4	6.02054	9.83429e-2		NITROBENZENE
2.846	1	VB	1	2.04300e4	16.70441	1.00411e-1		2-NITROTOLUENE
3.162	1	BV	1	3.36636e4	10.36344	1.02647e-1		3-NITROTOLUENE
3.308	1	VB	1	2.69521e4	13.00775	1.03152e-1		4-NITROTOLUENE
4.288	1	FM +I	1	4.24843e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.577	1	FM	1	2.69602e5	1.26812	1.00592e-1		NITROGLYCERIN
5.195	1	MF	1	9.85946e4	3.30834	9.59722e-2		1,3-DINITROBENZENE
5.330	1	FM	1	4.35042e5	7.74458e-1	9.91312e-2		2,6-DINITROTOLUENE
5.893	1	BB	1	2.36735e5	1.38226	9.62797e-2		2,4-DINITROTOLUENE
6.288	1	BV	1	4.66800e5	7.14054e-1	9.80716e-2		3,4-DINITROTOLUENE
6.975	1	MF	1	1.63381e5	1.83478	8.81998e-2		1,3,5-TRINITROBENZENE
7.142	1	FM	1	4.17997e5	9.73224e-1	1.19692e-1		2,4,6-TRINITROTOLUENE
7.768	1	MF	1	1.19686e5	2.56756	9.04160e-2		PETN
8.088	1	VB	1	4.28109e5	7.16025e-1	9.01913e-2		RDX
8.632	1	BV	1	3.02570e5	1.08401	9.65032e-2		4-AMINO-2,6-DINITROTOLUENE
8.695	1	VV	1	3.28447e5	1.00957	9.75631e-2		3,5-DINITROANILINE
8.944	1	VV	1	3.46611e5	9.44221e-1	9.62935e-2		2-AMINO-4,6-DINITROTOLUENE
9.458	1	BV +	1	1.54960e5	9.10901e-1	4.15309e-2		SURROGATE (2,2'-DINITROBIPHENYL)

Sample Info : Matrix Spike

Totals without ISTD(s) : 1.84101

```
1 Warnings or Errors :
```

Warning : Calibration warnings (see calibration table listing)

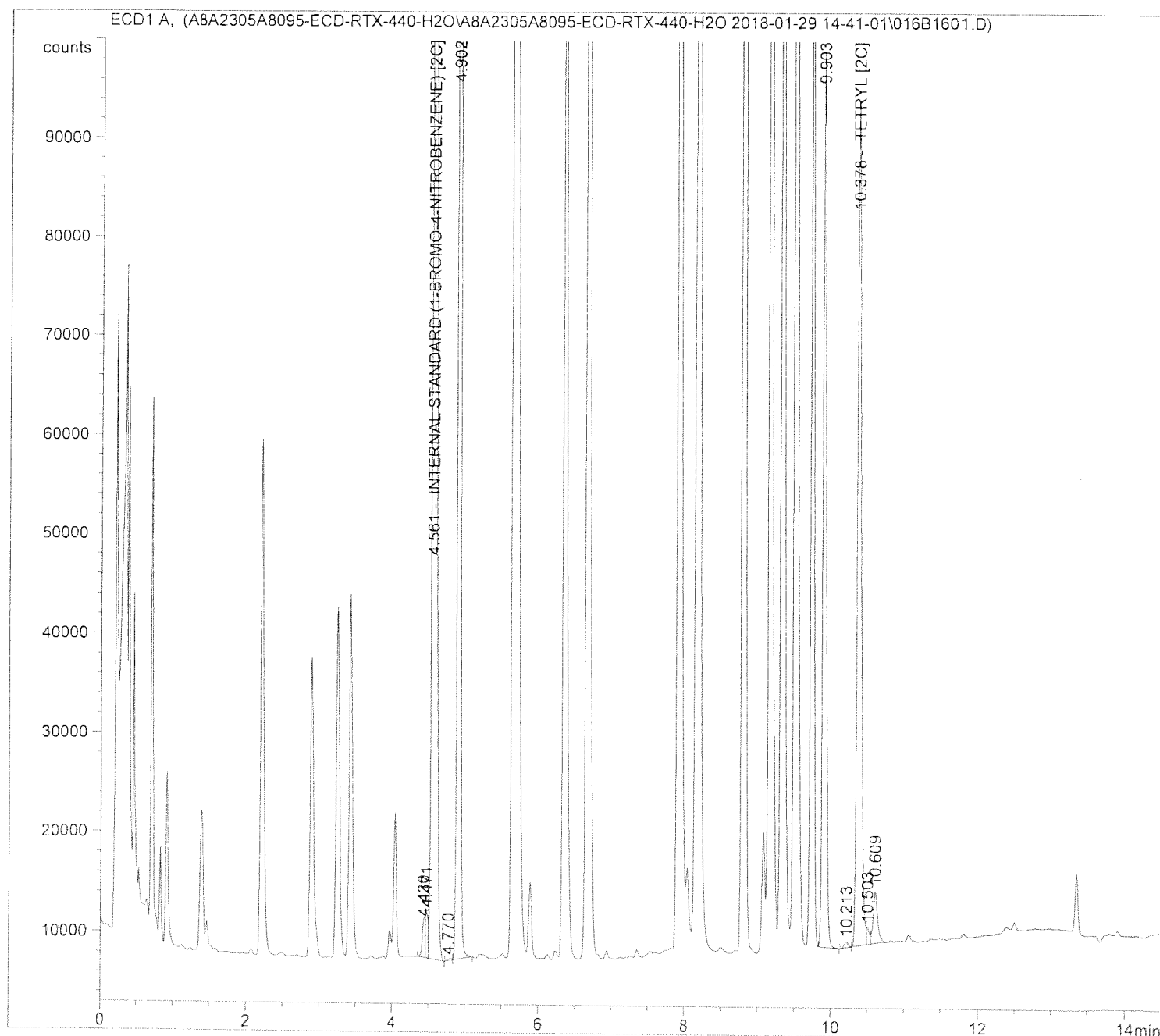
*** End of Report ***

Page 52 of 267 A180310 RAW DATA PACKAGE 02 05 2018 1150

Sample Name: A801121-MS1

```
=====
Acq. Operator   : JJK                               Seq. Line :   16
Acq. Instrument : 3337G12416                         Location  : Vial 16
Injection Date  : 1/29/2018 8:09:36 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : Matrix Spike



=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3337G12416	Location	: Vial 16
Injection Date	: 1/29/2018 8:09:36 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Matrix Spike

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.561	1	VB +I	1	2.24466e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.378	1	BV	1	8.43725e4	2.29513	1.07837e-1		TETRYL [2C]

Totals without ISTD(s) : 1.07837e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

Handwritten signature and date: 01/31/18

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8095

PW-868-20180119

Laboratory: Pace Analytical - Madison
 Client: Kennedy Jenks Consultants
 Matrix: Water
 Batch: A801121

SDG: A180310
 Project: Ashland Kenvil - Kenvil, NJ

% Solids:

Source Sample Name: A180310-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
2-Amino-4,6-dinitrotoluene	2.500	2.47	98.8	2.56		20	72.3 - 116
2-Amino-4,6-dinitrotoluene [2C]	2.500	2.52	101	0.373		20	79.2 - 115
4-Amino-2,6-dinitrotoluene	2.500	2.45	98.2	1.71		20	73.8 - 117
4-Amino-2,6-dinitrotoluene [2C]	2.500	2.52	101	0.708		20	80.1 - 112
3,5-Dinitroaniline	2.500	2.50	99.7	2.40		20	70 - 130
3,5-Dinitroaniline [2C]	2.500	2.48	99.1	0.241		20	70 - 130
1,3-Dinitrobenzene	2.500	2.40	95.9	0.0396		20	71.8 - 109
1,3-Dinitrobenzene [2C]	2.500	2.46	98.5	1.89		20	71.7 - 116
2,6-Dinitrotoluene	2.500	2.48	99.2	0.0633		20	85.9 - 106
2,6-Dinitrotoluene [2C]	2.500	2.57	103	1.22		20	86.9 - 106
2,4-Dinitrotoluene	2.500	2.42	96.8	0.515		20	84.6 - 105
2,4-Dinitrotoluene [2C]	2.500	2.56	102	0.994		20	80.4 - 111
HMX	2.500	3.83	153	13.6	M	20	70 - 130
HMX [2C]	2.500	3.00	120	7.76		20	70 - 130
Nitroglycerin	2.500	2.51	100	0.102		20	70 - 130
Nitroglycerin [2C]	2.500	2.55	102	0.448		20	70 - 130
3-Nitrotoluene	2.500	2.60	104	1.13		20	83.1 - 117
3-Nitrotoluene [2C]	2.500	2.50	99.7	0.701		20	80.1 - 113
4-Nitrotoluene	2.500	2.59	104	0.543		20	88.9 - 121
4-Nitrotoluene [2C]	2.500	2.55	102	0.572		20	82.2 - 115
PETN	2.500	2.34	93.3	3.35		20	70 - 130
PETN [2C]	2.500	2.49	99.7	0.816		20	70 - 130
RDX	2.500	2.39	95.6	5.84		20	73.7 - 111
RDX [2C]	2.500	2.40	95.9	0.411		20	66.5 - 124
Tetryl	2.500	2.35	93.8	1.52		20	70 - 130
Tetryl [2C]	2.500	2.77	111	2.64		20	70 - 130
1,3,5-Trinitrobenzene	2.500	2.28	91.4	3.54		20	72.6 - 110
1,3,5-Trinitrobenzene [2C]	2.500	2.45	98.0	0.480		20	75.3 - 110
2,4,6-Trinitrotoluene	2.500	3.03	121	1.11		20	68.8 - 135
2,4,6-Trinitrotoluene [2C]	2.500	3.15	126	0.260		20	66.4 - 141

Sample Name: A801121-MSD1

=====

Acq. Operator : JJK Seq. Line : 17
Acq. Instrument : 3337G12416 Location : Vial 17
Injection Date : 1/23/2018 9:36:39 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

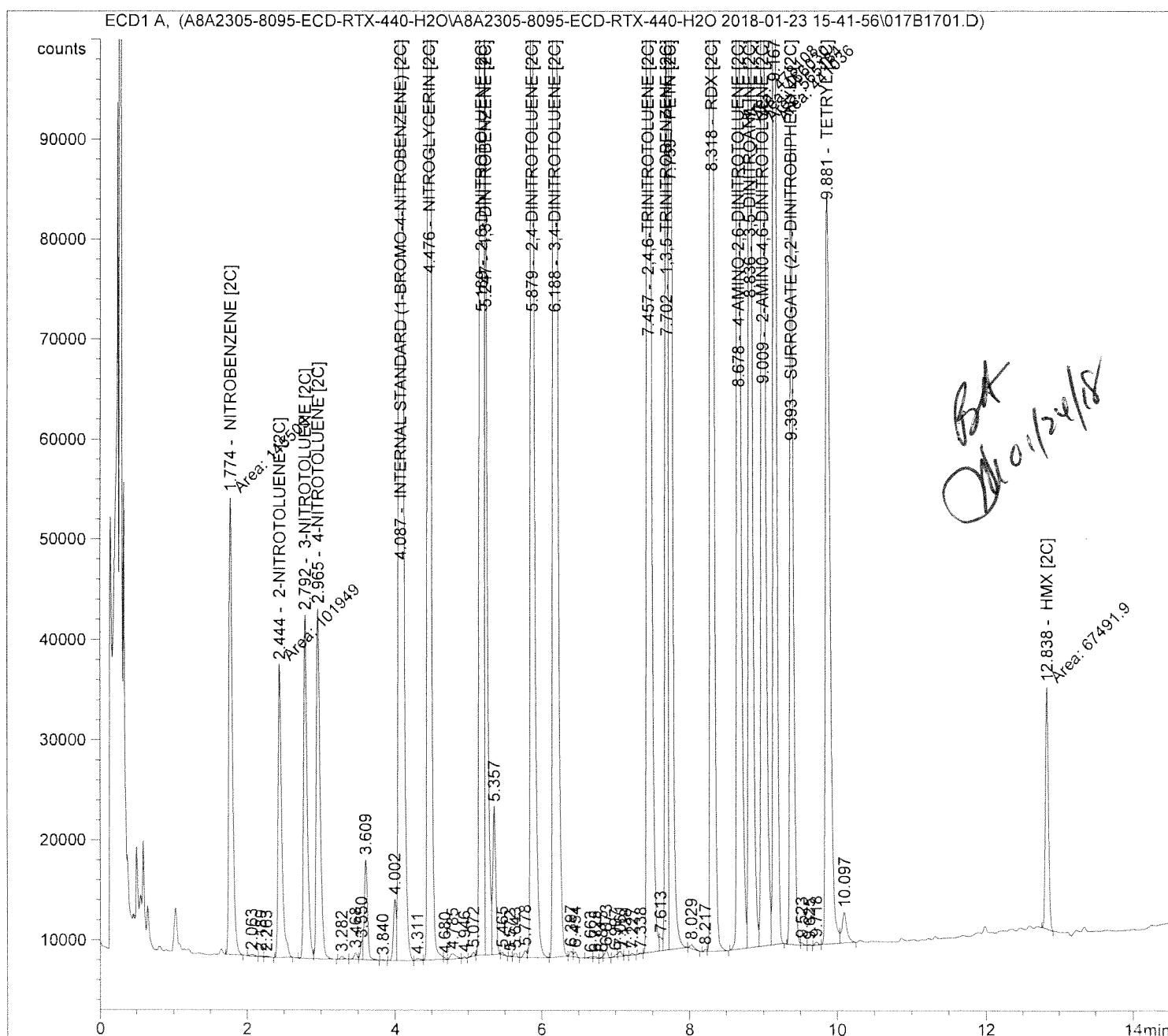
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Matrix Spike Dup



Sample Name: A801121-MSD1

```

=====
Acq. Operator   : JJK                               Seq. Line :   17
Acq. Instrument : 3337G12416                         Location  : Vial 17
Injection Date  : 1/23/2018 9:36:39 PM                Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : Matrix Spike Dup

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.774	1	MM	1	4.57474e4	3.74536	9.65040e-2		NITROBENZENE [2C]
2.444	1	MM	1	2.93159e4	6.04534	9.98183e-2		2-NITROTOLUENE [2C]
2.792	1	VV	1	3.43228e4	5.16411	9.98306e-2		3-NITROTOLUENE [2C]
2.965	1	VB	1	3.49962e4	5.18087	1.02120e-1		4-NITROTOLUENE [2C]
4.087	1	VB +I	1	2.21934e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.476	1	VV	1	2.41809e5	7.48924e-1	1.01999e-1		NITROGLYCERIN [2C]
5.189	1	BV	1	2.33730e5	7.81240e-1	1.02845e-1		2,6-DINITROTOLUENE [2C]
5.247	1	VV B	1	8.27621e4	2.11408	9.85459e-2		1,3-DINITROBENZENE [2C]
5.879	1	VB	1	1.26860e5	1.43117	1.02259e-1		2,4-DINITROTOLUENE [2C]
6.188	1	BB	1	2.45902e5	7.56571e-1	1.04784e-1		3,4-DINITROTOLUENE [2C]
7.457	1	BV	1	2.17278e5	1.03062	1.26125e-1		2,4,6-TRINITROTOLUENE [2C]
7.702	1	VV	1	9.10843e4	1.91049	9.80110e-2		1,3,5-TRINITROBENZENE [2C]
7.759	1	VB	1	1.25855e5	1.40604	9.96675e-2		PETN [2C]
8.318	1	VB	1	2.37584e5	7.16939e-1	9.59367e-2		RDX [2C]
8.678	1	MF	1	1.42258e5	1.25823	1.00814e-1		4-AMINO-2,6-DINITROTOLUENE [2C]
8.836	1	FM	1	1.42010e5	1.23972	9.91582e-2		3,5-DINITROANILINE [2C]
9.009	1	FM	1	1.67232e5	1.06924	1.00712e-1		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	BV +	1	8.13043e4	9.91781e-1	4.54166e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.881	1	BV	1	7.50197e4	2.02835	8.57046e-2		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 17
Acq. Instrument	: 3337G12416	Location	: Vial 17
Injection Date	: 1/23/2018 9:36:39 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Matrix Spike Dup

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.838	1	MM	1	2.42844e4	8.77250	1.19987e-1		HMX [2C]

Totals without ISTD(s) : 1.88024

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

OK 01/24/18

Sample Name: A801121-MSD1

=====

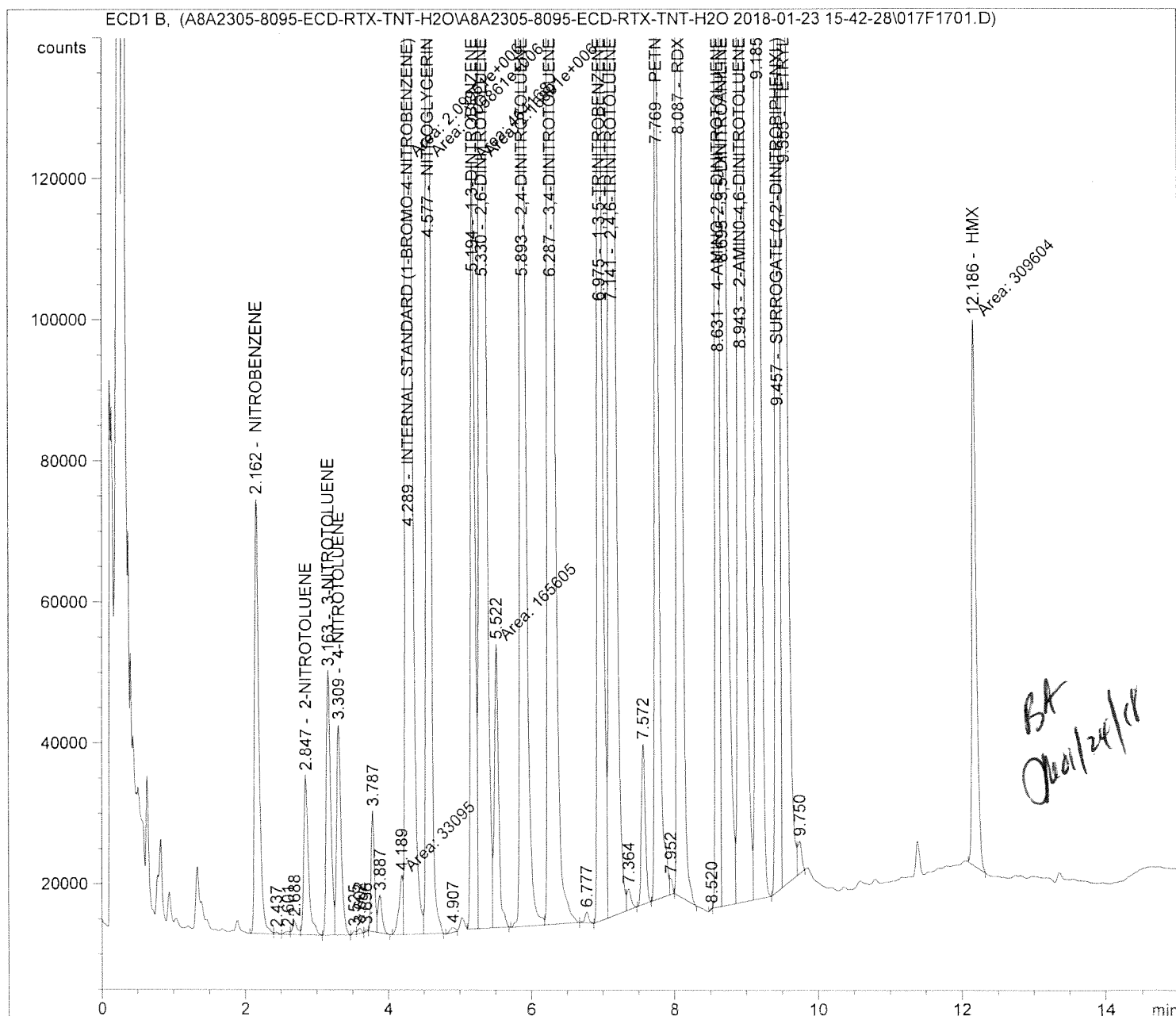
Acq. Operator : JJK Seq. Line : 17
Acq. Instrument : 3336A52146 Location : Vial 17
Injection Date : 1/23/2018 9:28:03 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5
MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : Matrix Spike Dup



Sample Name: A801121-MSD1

```

=====
Acq. Operator   : JJK                      Seq. Line :   17
Acq. Instrument : 3336A52146                Location  : Vial 17
Injection Date  : 1/23/2018 9:28:03 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                 (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                 MICRON FILM, (S/N 1153047/P).
                 INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

```

Sample Info : Matrix Spike Dup

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

-----|-----|-----
1      1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.162	1	BV		6.16644e4	6.02626	9.92452e-2		NITROBENZENE
2.847	1	VB		2.26586e4	16.70815	1.01109e-1		2-NITROTOLUENE
3.163	1	BV		3.74610e4	10.37636	1.03813e-1		3-NITROTOLUENE
3.309	1	VB		2.98431e4	13.01266	1.03714e-1		4-NITROTOLUENE
4.289	1	MF +I		4.68040e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.577	1	FM		2.96730e5	1.26803	1.00489e-1		NITROGLYCERIN
5.194	1	MF		1.08578e5	3.30829	9.59342e-2		1,3-DINITROBENZENE
5.330	1	MF		4.79543e5	7.74517e-1	9.91940e-2		2,6-DINITROTOLUENE
5.893	1	BV		2.61974e5	1.38321	9.67772e-2		2,4-DINITROTOLUENE
6.287	1	VB		5.14667e5	7.14114e-1	9.81569e-2		3,4-DINITROTOLUENE
6.975	1	BV		1.85770e5	1.84176	9.13769e-2		1,3,5-TRINITROBENZENE
7.141	1	VV		4.65118e5	9.74262e-1	1.21022e-1		2,4,6-TRINITROTOLUENE
7.769	1	BV		1.36141e5	2.57136	9.34932e-2		PETN
8.087	1	BB		5.00877e5	7.14771e-1	9.56147e-2		RDX
8.631	1	BV		3.38329e5	1.08639	9.81642e-2		4-AMINO-2,6-DINITROTOLUENE
8.695	1	VV		3.69384e5	1.01300	9.99337e-2		3,5-DINITROANILINE
8.943	1	VV		3.90558e5	9.47108e-1	9.87897e-2		2-AMINO-4,6-DINITROTOLUENE
9.457	1	BV +		1.72575e5	9.11576e-1	4.20143e-2		SURROGATE (2,2'-DINITROBIPHENYL)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443
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Totals without ISTD(s) : 1.88572

Warning : Calibration warnings (see calibration table listing)

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
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*** End of Report ***

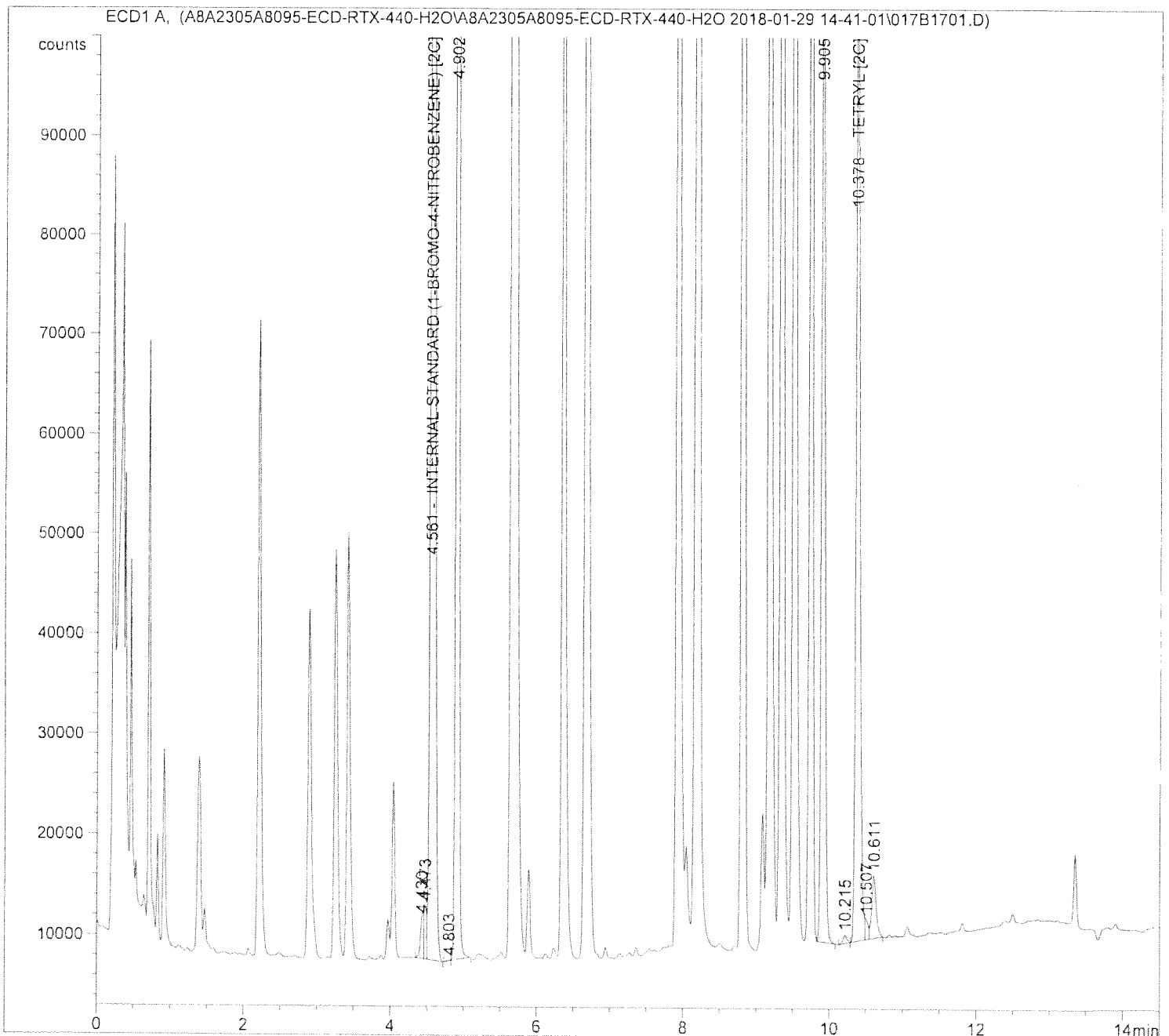
01/24/18

Sample Name: A801121-MSD1

=====

Acq. Operator	: JJK	Seq. Line	: 17
Acq. Instrument	: 3337G12416	Location	: Vial 17
Injection Date	: 1/29/2018 8:31:33 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M		
Last changed	: 1/30/2018 8:35:45 AM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		

Sample Info : Matrix Spike Dup



Sample Name: A801121-MSD1

```

=====
Acq. Operator   : JJK                               Seq. Line :   17
Acq. Instrument : 3337G12416                         Location  : Vial 17
Injection Date  : 1/29/2018 8:31:33 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : Matrix Spike Dup

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

----|-----|-----
1   1.25000e-1   INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.561	1	VB +I	1	2.55850e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.378	1	BV	1	9.93786e4	2.28041	1.10721e-1		TETRYL [2C]

Totals without ISTD(s) : 1.10721e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

=====
*** End of Report ***

```

ANALYSIS SEQUENCE SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

SeSuence: A8A2305

Instrument: 3337G12416

Calibration: A180120

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	A8A2305-IBL1	001F0101.D.Report.TXT	01/23/18 15:44
Instrument Blank	A8A2305-IBL2	002B0201.D.Report.TXT	01/23/18 16:06
Cal Standard	A8A2305-CAL1	003B0301.D.Report.TXT	01/23/18 16:28
Cal Standard	A8A2305-CAL2	004B0401.D.Report.TXT	01/23/18 16:50
Cal Standard	A8A2305-CAL3	005B0501.D.Report.TXT	01/23/18 17:12
Cal Standard	A8A2305-CAL4	006B0601.D.Report.TXT	01/23/18 17:34
Cal Standard	A8A2305-CAL5	007B0701.D.Report.TXT	01/23/18 17:56
Cal Standard	A8A2305-CAL6	008B0801.D.Report.TXT	01/23/18 18:18
Instrument Blank	A8A2305-IBL3	009B0901.D.Report.TXT	01/23/18 18:40
Initial Cal Check	A8A2305-ICV1	010B1001.D.Report.TXT	01/23/18 19:02
Calibration Check	A8A2305-CCV1	011B1101.D.Report.TXT	01/23/18 19:24
Instrument Blank	A8A2305-IBL4	012B1201.D.Report.TXT	01/23/18 19:46
Blank	A801121-BLK1	013B1301.D.Report.TXT	01/23/18 20:08
PW-868-20180119	A180310-01	014B1401.D.Report.TXT	01/23/18 20:30
BD20180119	A180310-02	015B1501.D.Report.TXT	01/23/18 20:52
PW-868-20180119	A801121-MS1	016B1601.D.Report.TXT	01/23/18 21:14
PW-868-20180119	A801121-MSD1	017B1701.D.Report.TXT	01/23/18 21:36
LCS	A801121-BS1	018B1801.D.Report.TXT	01/23/18 21:58
Calibration Check	A8A2305-CCV2	022B2201.D.Report.TXT	01/23/18 23:26
Instrument Blank	A8A2305-IBL5	025B2501.D.Report.TXT	01/24/18 00:33
Calibration Check	A8A2305-CCV3	026B2601.D.Report.TXT	01/24/18 00:55

ANALYSIS SEQUENCE SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

SeSuence: A8A2305

Instrument: 3336A52146

Calibration: A180120

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	A8A2305-IBL1	001F0101.D.Report.TXT	01/23/18 15:44
Instrument Blank	A8A2305-IBL2	002F0201.D.Report.TXT	01/23/18 16:05
Cal Standard	A8A2305-CAL1	003F0301.D.Report.TXT	01/23/18 16:27
Cal Standard	A8A2305-CAL2	004F0401.D.Report.TXT	01/23/18 16:48
Cal Standard	A8A2305-CAL3	005F0501.D.Report.TXT	01/23/18 17:10
Cal Standard	A8A2305-CAL4	006F0601.D.Report.TXT	01/23/18 17:31
Cal Standard	A8A2305-CAL5	007F0701.D.Report.TXT	01/23/18 17:53
Cal Standard	A8A2305-CAL6	008F0801.D.Report.TXT	01/23/18 18:14
Instrument Blank	A8A2305-IBL3	009F0901.D.Report.TXT	01/23/18 18:36
Initial Cal Check	A8A2305-ICV1	010F1001.D.Report.TXT	01/23/18 18:57
Calibration Check	A8A2305-CCV1	011F1101.D.Report.TXT	01/23/18 19:19
Instrument Blank	A8A2305-IBL4	012F1201.D.Report.TXT	01/23/18 19:40
Blank	A801121-BLK1	013F1301.D.Report.TXT	01/23/18 20:02
PW-868-20180119	A180310-01	014F1401.D.Report.TXT	01/23/18 20:23
BD20180119	A180310-02	015F1501.D.Report.TXT	01/23/18 20:44
PW-868-20180119	A801121-MS1	016F1601.D.Report.TXT	01/23/18 21:06
PW-868-20180119	A801121-MSD1	017F1701.D.Report.TXT	01/23/18 21:28
LCS	A801121-BS1	018F1801.D.Report.TXT	01/23/18 21:49
Calibration Check	A8A2305-CCV2	022F2201.D.Report.TXT	01/23/18 23:15
Instrument Blank	A8A2305-IBL5	025F2501.D.Report.TXT	01/24/18 00:19
Calibration Check	A8A2305-CCV3	026F2601.D.Report.TXT	01/24/18 00:41

ANALYSIS SEQUENCE

A8A2305



Printed: 1/25/2018 10:04:42AM

Instrument: 3336A52146

Calibration ID: A180120

Lab Number	Sample Name	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
A8A2305-IBL1	Instrument Blank	QC		1				
A8A2305-IBL2	Instrument Blank	QC		2				
A8A2305-CAL1	8095 CAL L-1 0.001 ug/mL	QC		3		A700257	A701380	
A8A2305-CAL2	8095 CAL L-2 0.004 ug/mL	QC		4		A700256	A701380	
A8A2305-CAL3	8095 CAL L-3 0.01 ug/mL	QC		5		A700255	A701380	
A8A2305-CAL4	8095 CAL L-4 0.04 ug/mL	QC		6		A700254	A701380	
A8A2305-CAL5	8095 CAL L-5 0.10 ug/mL	QC		7		A700253	A701380	
A8A2305-CAL6	8095 CAL L-6 0.40 ug/mL	QC		8		A700252	A701380	
A8A2305-IBL3	Instrument Blank	QC		9				
A8A2305-ICV1	8095 SS 0.04 ug/mL	QC		10		A700259	A701380	
A8A2305-CCV1	8095 CCV 0.04 ug/mL	QC		11		A700254	A701380	
A8A2305-IBL4	Instrument Blank	QC		12				
A801121-BLK1	Blank	QC		13			A701380	
A180310-01	PW-868-20180119	8095 ECD Full List	A	14			A701380	report to RL
A180310-02	BD20180119	8095 ECD Full List	A	15			A701380	report to RL
A801121-MS1	Matrix Spike	QC		16			A701380	
A801121-MSD1	Matrix Spike Dup	QC		17			A701380	
A801121-BS1	LCS-RW1	QC		18			A701380	
A801121-BS2	LCS-RW1	QC		19			A701380	
A801121-BS3	LCS-RW1	QC		20			A701380	
A801121-BS4	LCS-RW1	QC		21			A701380	
A8A2305-CCV2	8095 CCV 0.04 ug/mL	QC		22		A700254	A701380	
A180208-07	PT-EXP-WP	8095 ECD Full List	A	23			A701380	
A8A2305-IBL5	Instrument Blank	QC		24				
A8A2305-CCV3	8095 CCV 0.04 ug/mL	QC		25		A700254	A701380	

ANALYSIS SEQUENCE

A8A2305



Printed: 1/25/2018 10:04:42AM

Instrument: 3336A52146

Calibration ID: A180120

Lab Number	Sample Name	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
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Pipette Used NA Repeater Used NA Syringe(s) Used NA

Sequence Reagents and Standards

LIMS Number	Description
A700252	8095, ICAL Nitroaromatics, 0.40 ug/mL
A700253	8095, ICAL Nitroaromatics, 0.10 ug/mL
A700254	8095, ICAL Nitroaromatics, 0.040 ug/mL
A700255	8095, ICAL Nitroaromatics, 0.010 ug/mL
A700256	8095, ICAL Nitroaromatics, 0.0040 ug/mL
A700257	8095, ICAL Nitroaromatics, 0.001 ug/mL
A700259	8095, Second Source Nitroaromatics, 0.04 ug/mL
A701380	8095, ECD, Internal Standard 5.0ug/mL
A701592	8095, SPIKE MIX Nitroaromatics, 10.0 ug/mL

Samples Loaded By

Date

Data Processed By

Date

Lims ID :
Method Name : 8095-ECD-RTX-440
Injection : 1
Sample Type : Sample
Injection Volume :
Data File :

Sample Amount :
ISTD Amount :
Multiplier :
Dilution :

=====

Sample related custom fields:

Line	Location	Sample Name	Custom Field	Value
1	Vial 1	A8A2305-IBL1		No values
2	Vial 2	A8A2305-IBL2		No values
3	Vial 3	A8A2305-CAL1		No values
4	Vial 4	A8A2305-CAL2		No values
5	Vial 5	A8A2305-CAL3		No values
6	Vial 6	A8A2305-CAL4		No values
7	Vial 7	A8A2305-CAL5		No values
8	Vial 8	A8A2305-CAL6		No values
9	Vial 9	A8A2305-IBL3		No values
10	Vial 10	A8A2305-ICV1		No values
11	Vial 11	A8A2305-CCV1		No values
12	Vial 12	A8A2305-IBL4		No values
13	Vial 13	A801121-BLK1		No values
14	Vial 14	A180310-01		No values
15	Vial 15	A180310-02		No values
16	Vial 16	A801121-MS1		No values
17	Vial 17	A801121-MSD1		No values
18	Vial 18	A801121-BS1		No values
19	Vial 19	A801121-BS2		No values
20	Vial 20	A801121-BS3		No values
21	Vial 21	A801121-BS4		No values
22	Vial 22	A8A2305-CCV2		No values
23	Vial 23	A180208-07@10		No values
24	Vial 24	A180208-07		No values
25	Vial 25	A8A2305-IBL5		No values
26	Vial 26	A8A2305-CCV3		No values

=====

Sequence Output Parameters:

Print Sequence Summary Report (SSR) : No
Dest. of individual reports for each run : as specified in Method

Sequence Summary Parameters:

One page header: No
Print Configuration: No
Print Sequence: No

Print Logbook:	No
Print Method(s):	No
Print Analysis reports:	No
Print Statistics for Calib. runs:	No
Print Statistics for Sample runs:	No
Summary style:	Sample Summary

Sample Information : LCS-RWJ
Sample Name : A801121-BS4
Method Name : 8095-ECD-RTX-TNT

=====
Line : 22
Location : Vial 22
Sample Information : 8095 CCV 0.04 ug/mL
Sample Name : A8A2305-CCV2
Method Name : 8095-ECD-RTX-TNT
=====

=====
Line : 23
Location : Vial 23
Sample Information : Instrument Blank
Sample Name : A180208-07@10
Method Name : 8095-ECD-RTX-TNT
=====

=====
Line : 24
Location : Vial 24
Sample Information : PT-EXP-WP
Sample Name : A180208-07
Method Name : 8095-ECD-RTX-TNT
=====

=====
Line : 25
Location : Vial 25
Sample Information :
Sample Name : A8A2305-IBL5
Method Name : 8095-ECD-RTX-TNT
=====

=====
Line : 26
Location : Vial 26
Sample Information : 8095 CCV 0.04 ug/mL
Sample Name : A8A2305-CCV3
Method Name : 8095-ECD-RTX-TNT
=====

Sample related custom fields:

Line	Location	Sample Name	Custom Field	Value
====	=====	=====	=====	=====
1	Vial 1	A8A2305-IBL1		No values
2	Vial 2	A8A2305-IBL2		No values
3	Vial 3	A8A2305-CAL1		No values
4	Vial 4	A8A2305-CAL2		No values

5	Vial 5	A8A2305-CAL3	No values
6	Vial 6	A8A2305-CAL4	No values
7	Vial 7	A8A2305-CAL5	No values
8	Vial 8	A8A2305-CAL6	No values
9	Vial 9	A8A2305-IBL3	No values
10	Vial 10	A8A2305-ICV1	No values
11	Vial 11	A8A2305-CCV1	No values
12	Vial 12	A8A2305-IBL4	No values
13	Vial 13	A801121-BLK1	No values
14	Vial 14	A180310-01 — m(H ₂ O)	No values
15	Vial 15	A180310-02	No values
16	Vial 16	A801121-MS1 — H ₂ O 134%	No values
17	Vial 17	A801121-MSD1 — H ₂ O 153%	No values
18	Vial 18	A801121-BS1	No values
19	Vial 19	A801121-BS2	No values
20	Vial 20	A801121-BS3	No values
21	Vial 21	A801121-BS4	No values
22	Vial 22	A8A2305-CCV2	No values
23	Vial 23	A180208-07@10	No values
24	Vial 24	A180208-07	No values
25	Vial 25	A8A2305-IBL5	No values
26	Vial 26	A8A2305-CCV3	No values

Handwritten notes: tetra @ 121%, m(H₂O), H₂O 134%, H₂O 153%, 01/25/18

=====

SEQUENCE TABLE (Back Injector):

=====

No entries - empty table!

=====

Sequence Output Parameters:

Print Sequence Summary Report (SSR)	:	No
Dest. of individual reports for each run	:	as specified in Method

Sequence Summary Parameters:

One page header:	No
Print Configuration:	No
Print Sequence:	No
Print Logbook:	No
Print Method(s):	No
Print Analysis reports:	No
Print Statistics for Calib. runs:	No
Print Statistics for Sample runs:	No
Summary style:	Sample Summary

=====
Line : 28
Location : Vial 28
Sample Information :
Sample Name :
Method Name : 8095-ECD-RTX-440
=====

=====
Line : 29
Location : Vial 29
Sample Information :
Sample Name :
Method Name : 8095-ECD-RTX-440
=====

=====
Line : 30
Location : Vial 30
Sample Information :
Sample Name :
Method Name : 8095-ECD-RTX-440
=====

Sample related custom fields:

Line	Location	Sample Name	Custom Field	Value
1	Vial 1	A8A2305-IBL1	<i>Front end maintenance column on 01/25/18</i>	No values
2	Vial 2	A8A2305-IBL2		No values
3	Vial 3	A8A2305-CAL1		No values
4	Vial 4	A8A2305-CAL2		No values
5	Vial 5	A8A2305-CAL3		No values
6	Vial 6	A8A2305-CAL4	<i>on 01/31/18</i>	No values
7	Vial 7	A8A2305-CAL5		No values
8	Vial 8	A8A2305-CAL6		No values
9	Vial 9	A8A2305-IBL3		No values
10	Vial 10	A8A2305-ICV1		No values
11	Vial 11	A8A2305-CCV1		No values
12	Vial 12	A8A2305-IBL4		No values
13	Vial 13	A801121-BLK1		No values
14	Vial 14	A180310-01		No values
15	Vial 15	A180310-02		No values
16	Vial 16	A801121-MS1		No values
17	Vial 17	A801121-MSD1		No values
18	Vial 18	A801121-BS1		No values
19	Vial 19	A801121-BS2		No values
20	Vial 20	A801121-BS3		No values
21	Vial 21	A801121-BS4		No values
22	Vial 22	A8A2305-CCV2		No values
23	Vial 23	A180208-07@10		No values
24	Vial 24	A180208-07		No values

25	Vial 25	A8A2305-IBL5	No values
26	Vial 26	A8A2305-CCV3	No values
27	Vial 27		No values
28	Vial 28		No values
29	Vial 29		No values
30	Vial 30		No values

=====

Sequence Summary Parameters:

One page header:	No
Print Configuration:	No
Print Sequence:	No
Print Logbook:	No
Print Method(s):	No
Print Analysis reports:	No
Print Statistics for Calib. runs:	No
Print Statistics for Sample runs:	No
Summary style:	Sample Summary

EPA 8095

SDG: A180310

Project: Ashland Kenvil - Kenvil, NJ

Instrument: 3336A52146

Instrument*: 3337G12416

Page 74 of 267 A180310 RAW DATA PACKAGE 02 05 2018 1150

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 11/9/2017 at 1:20:54 PM

Method Information

Method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified: 11/9/2017 at 1:20:54 PM

METHOD 8095 BY ECD, USING A RESTEK RTX-440 6 M BY 0.53 MM ID BY 0.5
UM FILM. (S/N 1500857) USING 4 MM GOOSNECK LINER WITH A GOLD SEAL.
2 UL INJECTION.

Method Audit Trail

Operator : RWJ
Date : 4/5/2016 5:16:24 PM
Change Info: This method was created at 4/5/2016 5:16:24 PM and based on
method C:\Chem32\2\METHODS\8095-ECD-RTX-440PLAY.M

Operator : RWJ
Date : 4/5/2016 5:16:38 PM
Change Info: Method saved. User comment: "CREATE AQ METHOD RWJ"

Operator : RWJ
Date : 10/26/2016 11:57:18 AM
Change Info: Method saved. User comment: "change max to 320 rwj"

Operator : RWJ
Date : 10/11/2017 6:12:28 PM
Change Info: Method saved. User comment: "CHANGE TO BACK INJ RWJ"

Operator : JJK
Date : 11/7/2017 1:04:36 PM
Change Info: Method saved. User comment: "CHANGED PURGE OFF FROM 15 TO 14
MINUTES 11/7/17 JJK"

Operator : JJK
Date : 11/9/2017 1:20:54 PM
Change Info: Method saved. User comment: "changed column serial number 11/9/17
jjk"

Run Time Checklist

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: off

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

*Acquisition
Method*
01/24/18

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 11/9/2017 at 1:20:54 PM
Save Method with Data: off

Injection Source and Location

Injection Source: Manual

Injection Location: Back

OVEN\DET

Runtime (min): 15.4

Zone Temperatures:

	State	Setpoint
Inl. A	ON	210 C.
Inl. B	OFF	50 C.
Det. A	ON	250 C.
Det. B	OFF	50 C.
Aux.	OFF	50 C.

Oven Zone:

Oven max	320 C.
Equib Time	1.50 Min.
Oven State	ON
Cryo State	OFF
Ambient	25 C.
Cryo Blast	OFF

Oven Program:

	Setpoint		
Initial Temp.:	60 C.		
Initial Time:	1.00 Min.		
Level	Rate (C/min.)	Final Temp.(C)	Final Time (min)
1	16.0	275	1.00

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	Off	0.50	14.00
B (Valve 4)	Off	0.50	14.00

A - Splitless Injection: No
B - Splitless Injection: No

Valves/Relays Information

Initial Setpoints:

5890 Valves:

Valve 1:	Off
Valve 2:	Off
Valve 3 (Purge A):	Off
Valve 4 (Purge B):	Off

Detector Information

Detector A:
Type ECD
State ON

Signal Information

Save Data: Signal 1

Signal 1:
Signal Det. A
Data rate 5.000 Hz.
Peakwidth 0.053 min.
Start Time 0.00 min.
Stop Time 650.00 min.

Signal 2:
Signal Testplot
Data rate 5.000 Hz.
Peakwidth 0.053 min.
Start Time 0.00 min.
Stop Time 650.00 min.

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	0.000
Front Peak Skim Height Ratio	0.000
Skim Valley Ratio	20.000
Baseline Correction	Advanced
Peak to Valley Ratio	500.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 11/9/2017 at 1:20:54 PM
Apply Manual Integration Events: No

=====

Sample related custom fields

=====

Custom Field	Type	Mand.	Default Value

None defined			

=====

Compound related custom fields

=====

Custom Field	Type	Mand.	Default Value

None defined			

method: C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Modified on: 1/24/2018 at 4:04:25 PM

Method Information

Method: C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Modified: 1/24/2018 at 4:04:25 PM

Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5
MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Method Audit Trail

Operator : JJK
Date : 1/24/2018 3:46:59 PM
Change Info: This method was created at 1/24/2018 3:46:59 PM and based on
method C:\CHEM32\2\METHODS\A7L1102-8095-ECD-RTX-440-H2O.M

Operator : JJK
Date : 1/24/2018 3:47:05 PM
Change Info: Method saved. User comment: "CREATED 01/24/18 JJK"

Operator : JJK
Date : 1/24/2018 4:04:25 PM
Change Info: Method saved. User comment: "UPDATED CAL TABLE 01/24/18 JJK"

*Processing
method
All 01/24/18*

Run Time Checklist

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: off

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

Save Method with Data: off

=====
Integration Events
=====

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	0.000
Front Peak Skim Height Ratio	0.000
Skim Valley Ratio	20.000
Baseline Correction	Advanced
Peak to Valley Ratio	500.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_ECD1B"

Event	Value	Time
Initial Slope Sensitivity	300.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	5.000	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	1.481
Integration	OFF	18.490

Detector Default Integration Event Table "Event_GC"

Event	Value	Time
Initial Slope Sensitivity	300.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	100.000	Initial
Initial Height Reject	25.000	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	2.093
Integration	OFF	18.140

Signal Specific Integration Event Table "Event_GC1A"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	0.100	Initial
Initial Height Reject	0.100	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	1.661
Integration	OFF	18.250

Signal Specific Integration Event Table "Event_ECD1A"

Event	Value	Time
Initial Slope Sensitivity	400.000	Initial
Initial Peak Width	0.070	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	DROP	Initial
Integration	OFF	0.000
Integration	ON	1.556
Integration	OFF	13.085

Apply Manual Integration Events: No

=====

Sample related custom fields

=====

Custom Field	Type	Mand.	Default Value
--------------	------	-------	---------------

None defined

=====

Compound related custom fields

=====

Custom Field	Type	Mand.	Default Value
--------------	------	-------	---------------

None defined

=====
Calibration Table
=====

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.040 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Power (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :

Printout of recalibrations within a sequence:

Calibration Table after Recalibration

Normal Report after Recalibration

If the sequence is done with bracketing:

Results of first cycle (ending previous bracket)

Sample ISTD Information:

ISTD ISTD Amount Name

#

-----|-----|-----
1 1.25000e-1 INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime	Lvl	Amount	Height	Amt/Height	Ref	Grp	Name
[min]	Sig						
1.778	1	1 1.00000e-3	336.19647	2.97445e-6	1		NITROBENZENE [2C]
		2 4.00000e-3	1294.09619	3.09096e-6			
		3 1.00000e-2	3022.39844	3.30863e-6			
		4 4.00000e-2	1.12065e4	3.56937e-6			
		5 1.00000e-1	2.58592e4	3.86709e-6			
		6 4.00000e-1	9.00891e4	4.44005e-6			
2.449	1	1 1.00000e-3	188.38341	5.30832e-6	1		2-NITROTOLUENE [2C]
		2 4.00000e-3	710.89911	5.62668e-6			
		3 1.00000e-2	1767.35913	5.65816e-6			
		4 4.00000e-2	6873.27051	5.81965e-6			
		5 1.00000e-1	1.62301e4	6.16140e-6			
		6 4.00000e-1	5.76820e4	6.93458e-6			
2.797	1	1 1.00000e-3	235.59766	4.24452e-6	1		3-NITROTOLUENE [2C]
		2 4.00000e-3	881.74420	4.53646e-6			
		3 1.00000e-2	2177.16772	4.59312e-6			
		4 4.00000e-2	8213.73340	4.86989e-6			
		5 1.00000e-1	1.89086e4	5.28859e-6			

*enter check
ago raw data
01/24/18*

RetTime [min]	Lvl Sig	Amount	Height	Amt/Height	Ref	Grp	Name
-----	----	-----	-----	-----	---	---	-----
2.969	1	1 4.00000e-1	6.56306e4	6.09471e-6			
		1 1.00000e-3	231.07416	4.32762e-6	1		4-NITROTOLUENE [2C]
		2 4.00000e-3	875.51929	4.56872e-6			
		3 1.00000e-2	2139.38525	4.67424e-6			
		4 4.00000e-2	8133.62256	4.91786e-6			
		5 1.00000e-1	1.87474e4	5.33407e-6			
		6 4.00000e-1	6.64569e4	6.01894e-6			
4.090	1	1 1.25000e-1	1.14188e5	1.09469e-6	+I1		INTERNAL STANDARD (1-BROMO-4-NITROBENZ)
		2 1.25000e-1	1.14069e5	1.09583e-6			
		3 1.25000e-1	1.15353e5	1.08363e-6			
		4 1.25000e-1	1.19313e5	1.04767e-6			
		5 1.25000e-1	1.18497e5	1.05488e-6			
		6 1.25000e-1	1.24024e5	1.00787e-6			
4.481	1	1 1.00000e-3	1401.44556	7.13549e-7	1		NITROGLYCERIN [2C]
		2 4.00000e-3	5480.93994	7.29802e-7			
		3 1.00000e-2	1.38522e4	7.21906e-7			
		4 4.00000e-2	5.45721e4	7.32976e-7			
		5 1.00000e-1	1.28872e5	7.75961e-7			
		6 4.00000e-1	4.81607e5	8.30553e-7			
5.193	1	1 1.00000e-3	1727.47974	5.78878e-7	1		2,6-DINITROTOLUENE [2C]
		2 4.00000e-3	6414.60352	6.23577e-7			
		3 1.00000e-2	1.53121e4	6.53078e-7			
		4 4.00000e-2	5.40654e4	7.39845e-7			
		5 1.00000e-1	1.22104e5	8.18973e-7			
		6 4.00000e-1	4.34277e5	9.21071e-7			
5.253	1	1 1.00000e-3	516.05151	1.93779e-6	1		1,3-DINTROBENZENE [2C]
		2 4.00000e-3	2096.25586	1.90816e-6			
		3 1.00000e-2	5166.02051	1.93573e-6			
		4 4.00000e-2	1.78484e4	2.24109e-6			
		5 1.00000e-1	4.40857e4	2.26831e-6			
		6 4.00000e-1	1.78089e5	2.24607e-6			
5.883	1	1 1.00000e-3	961.23907	1.04032e-6	1		2,4-DINITROTOLUENE [2C]
		2 4.00000e-3	3526.20044	1.13437e-6			
		3 1.00000e-2	8401.62207	1.19025e-6			
		4 4.00000e-2	2.97070e4	1.34648e-6			
		5 1.00000e-1	6.67671e4	1.49774e-6			
		6 4.00000e-1	2.35317e5	1.69983e-6			
6.192	1	1 1.00000e-3	1857.12769	5.38466e-7	1		3,4-DINITROTOLUENE [2C]
		2 4.00000e-3	6431.27783	6.21960e-7			
		3 1.00000e-2	1.55998e4	6.41034e-7			
		4 4.00000e-2	5.53984e4	7.22042e-7			
		5 1.00000e-1	1.25808e5	7.94864e-7			
		6 4.00000e-1	4.59214e5	8.71053e-7			
7.460	1	1 1.00000e-3	1235.58252	8.09335e-7	1		2,4,6-TRINITROTOLUENE [2C]
		2 4.00000e-3	4011.95117	9.97021e-7			
		3 1.00000e-2	1.05657e4	9.46458e-7			
		4 4.00000e-2	3.94444e4	1.01409e-6			
		5 1.00000e-1	1.05833e5	9.44881e-7			
		6 4.00000e-1	3.32604e5	1.20263e-6			
7.706	1	1 1.00000e-3	579.10565	1.72680e-6	1		1,3,5-TRINITROBENZENE [2C]
		2 4.00000e-3	2411.42505	1.65877e-6			
		3 1.00000e-2	5927.02637	1.68719e-6			
		4 4.00000e-2	2.18227e4	1.83295e-6			
		5 1.00000e-1	5.00861e4	1.99656e-6			
		6 4.00000e-1	1.79049e5	2.23402e-6			
7.764	1	1 1.00000e-3	733.32532	1.36365e-6	1		PETN [2C]
		2 4.00000e-3	2914.24854	1.37257e-6			

RetTime [min]	Lvl Sig	Amount	Height	Amt/Height	Ref	Grp	Name
-----	-- --	-----	-----	-----	---	--	-----
		3 1.00000e-2	7344.19727	1.36162e-6			
		4 4.00000e-2	2.86095e4	1.39814e-6			
		5 1.00000e-1	6.91867e4	1.44536e-6			
		6 4.00000e-1	2.56836e5	1.55741e-6			
8.323	1	1 1.00000e-3	1453.10535	6.88181e-7	1		RDX [2C]
		2 4.00000e-3	4488.96240	8.91075e-7			
		3 1.00000e-2	1.28602e4	7.77592e-7			
		4 4.00000e-2	5.51238e4	7.25639e-7			
		5 1.00000e-1	1.38801e5	7.20457e-7			
		6 4.00000e-1	5.40184e5	7.40488e-7			
8.682	1	1 1.00000e-3	1186.70129	8.42672e-7	1		4-AMINO-2,6-DINITROTOLUENE [2C]
		2 4.00000e-3	3881.21509	1.03061e-6			
		3 1.00000e-2	9769.81543	1.02356e-6			
		4 4.00000e-2	3.31327e4	1.20727e-6			
		5 1.00000e-1	7.55657e4	1.32335e-6			
		6 4.00000e-1	2.72270e5	1.46913e-6			
8.840	1	1 1.00000e-3	1059.15894	9.44145e-7	1		3,5-DINITROANILINE [2C]
		2 4.00000e-3	3860.51196	1.03613e-6			
		3 1.00000e-2	9310.94434	1.07400e-6			
		4 4.00000e-2	3.29866e4	1.21261e-6			
		5 1.00000e-1	7.76982e4	1.28703e-6			
		6 4.00000e-1	2.78937e5	1.43402e-6			
9.015	1	1 1.00000e-3	1235.62512	8.09307e-7	1		2-AMINO-4,6-DINITROTOLUENE [2C]
		2 4.00000e-3	4535.64160	8.81904e-7			
		3 1.00000e-2	1.08810e4	9.19032e-7			
		4 4.00000e-2	3.91099e4	1.02276e-6			
		5 1.00000e-1	8.89125e4	1.12470e-6			
		6 4.00000e-1	3.22215e5	1.24141e-6			
9.396	1	1 1.00000e-3	962.34100	1.03913e-6	+ 1		SURROGATE (2,2'-DINITROBIPHENYL) [2C]
		2 4.00000e-3	3707.86499	1.07879e-6			
		3 1.00000e-2	9981.34766	1.00187e-6			
		4 4.00000e-2	4.11448e4	9.72177e-7			
		5 1.00000e-1	9.77932e4	1.02257e-6			
		6 4.00000e-1	3.55989e5	1.12363e-6			
9.873	1	1 1.00000e-3	69.69949	1.43473e-5	1		TETRYL [2C]
		2 4.00000e-3	518.75305	7.71080e-6			
		3 1.00000e-2	2024.43396	4.93965e-6			
		4 4.00000e-2	1.75977e4	2.27303e-6			
		5 1.00000e-1	3.99833e4	2.50105e-6			
12.841	1	1 1.00000e-3	34.83809	2.87042e-5	1		HMX [2C]
		2 4.00000e-3	175.90341	2.27398e-5			
		3 1.00000e-2	516.72351	1.93527e-5			
		4 4.00000e-2	3211.21802	1.24563e-5			
		5 1.00000e-1	1.05928e4	9.44039e-6			
		6 4.00000e-1	6.36352e4	6.28583e-6			

More compound-specific settings:

Compound: NITROBENZENE [2C]

Curve Type : Power
Origin : Ignored

Compound: 3,5-DINITROANILINE [2C]

Curve Type : Power
Origin : Ignored

Compound: HMX [2C]

Curve Type : Power
Origin : Ignored

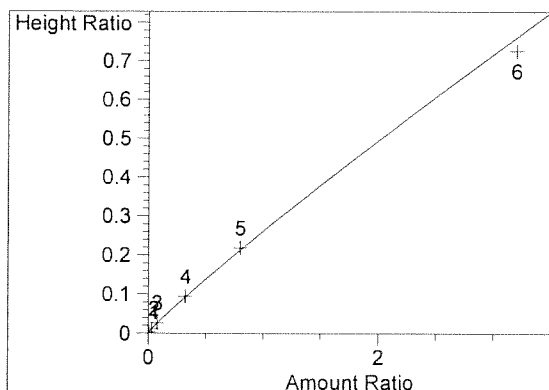
1 Warnings or Errors :

Warning : Curve requires more calibration points., (INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

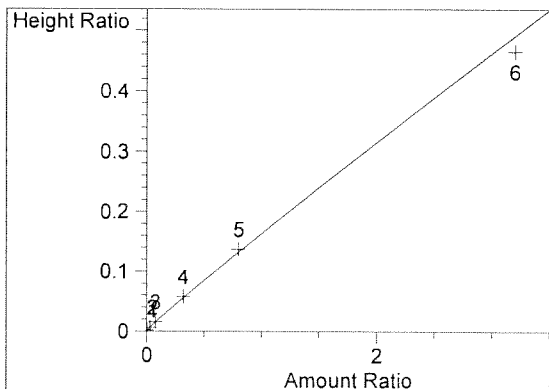
Peak Sum Table

No Entries in table

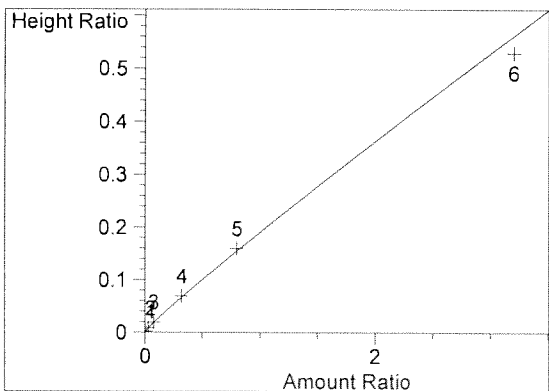
Calibration Curves



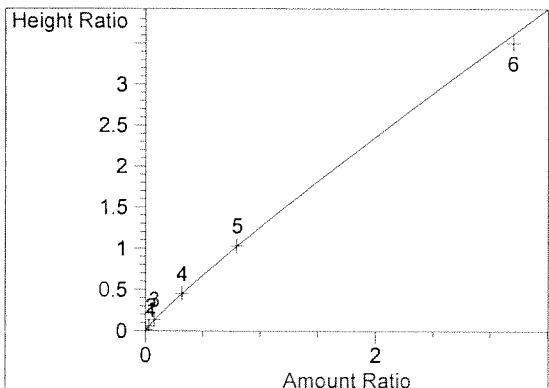
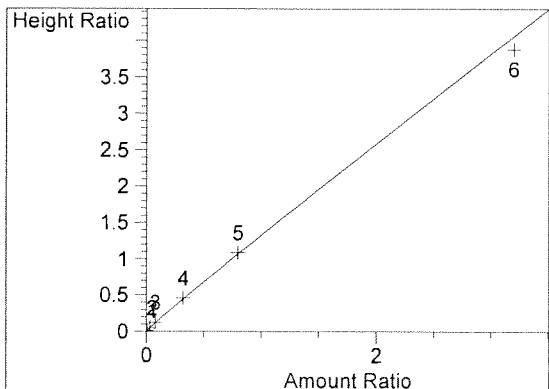
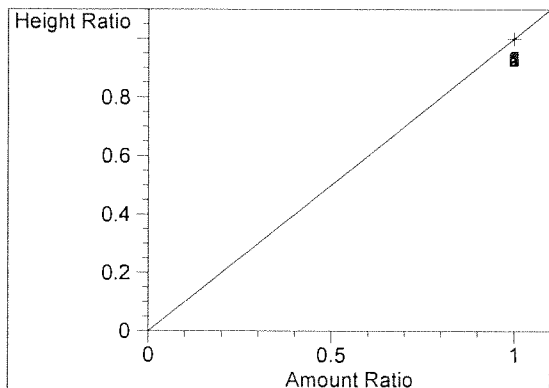
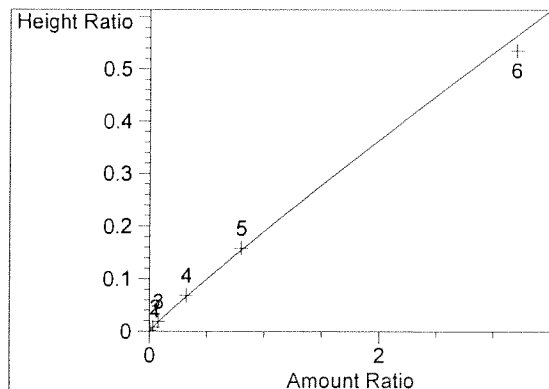
NITROBENZENE [2C] at exp. RT: 1.778
ECD1 A,
Correlation: 0.99977
Residual Std. Dev.: 0.01789
Formula: $y = b * x^m$
m: 9.19243e-1
b: 2.61476e-1
x: Amount
y: Height

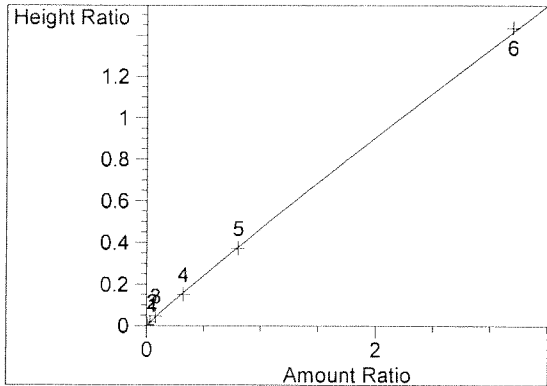


2-NITROTOLUENE [2C] at exp. RT: 2.449
ECD1 A,
Correlation: 0.99967
Residual Std. Dev.: 0.01329
Formula: $y = b * x^m$
m: 9.46101e-1
b: 1.63423e-1
x: Amount
y: Height

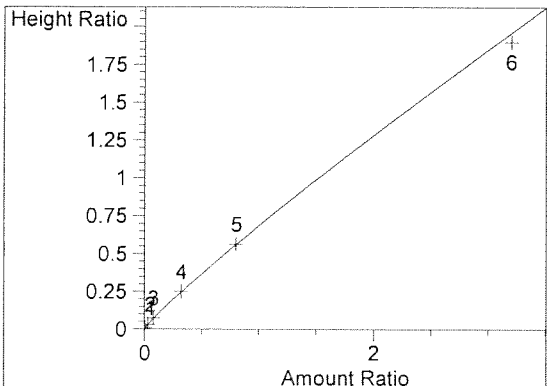


3-NITROTOLUENE [2C] at exp. RT: 2.797
ECD1 A,
Correlation: 0.99964
Residual Std. Dev.: 0.01650
Formula: $y = b * x^m$
m: 9.29286e-1
b: 1.90590e-1
x: Amount
y: Height

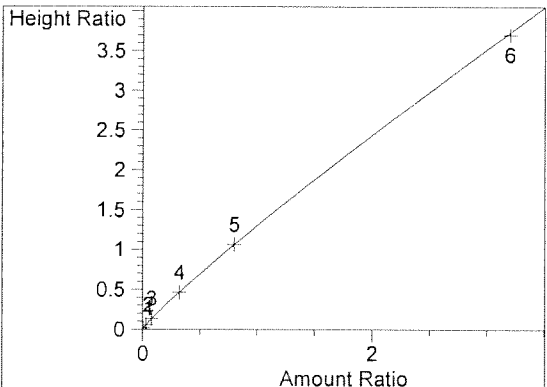




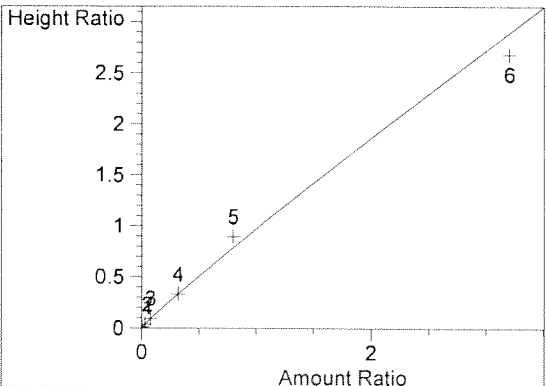
1,3-DINITROBENZENE [2C] at exp. RT: 5.253
ECD1 A,
Correlation: 0.99994
Residual Std. Dev.: 0.01159
Formula: $y = b * x^m$
m: 9.52085e-1
b: 4.67660e-1
x: Amount
y: Height



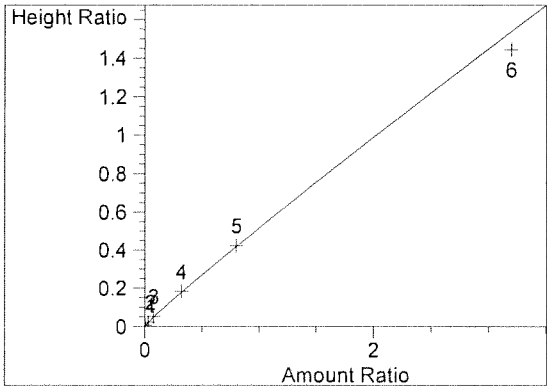
2,4-DINITROTOLUENE [2C] at exp. RT: 5.883
ECD1 A,
Correlation: 0.99994
Residual Std. Dev.: 0.03094
Formula: $y = b * x^m$
m: 9.03038e-1
b: 6.85256e-1
x: Amount
y: Height



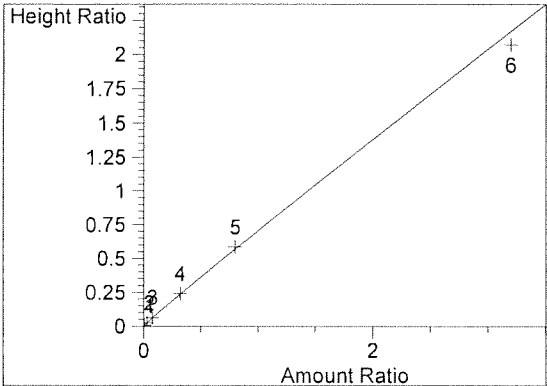
3,4-DINITROTOLUENE [2C] at exp. RT: 6.192
ECD1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.01488
Formula: $y = b * x^m$
m: 9.06586e-1
b: 1.30015
x: Amount
y: Height



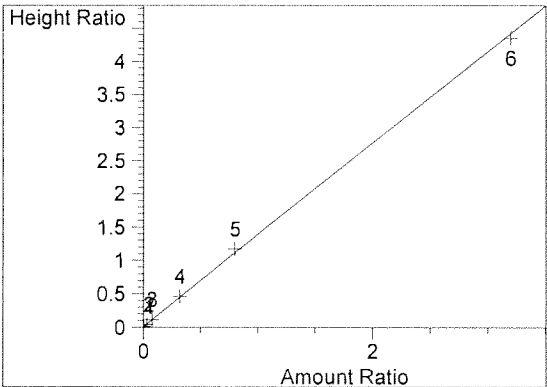
2,4,6-TRINITROTOLUENE [2C] at exp. RT: 7.460
ECD1 A,
Correlation: 0.99806
Residual Std. Dev.: 0.11784
Formula: $y = b * x^m$
m: 9.38561e-1
b: 9.70821e-1
x: Amount
y: Height



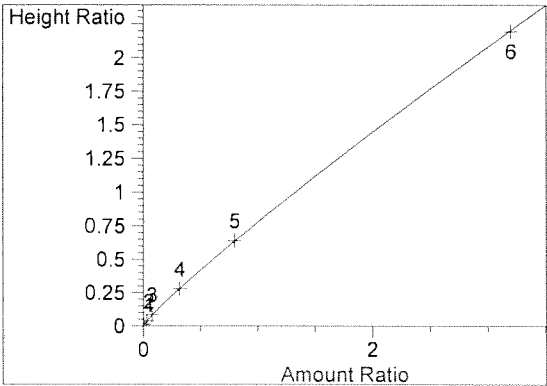
1,3,5-TRINITROBENZENE [2C] at exp. RT: 7.706
ECD1 A,
Correlation: 0.99977
Residual Std. Dev.: 0.04742
Formula: $y = b * x^m$
m: 9.39417e-1
b: 5.15768e-1
x: Amount
y: Height



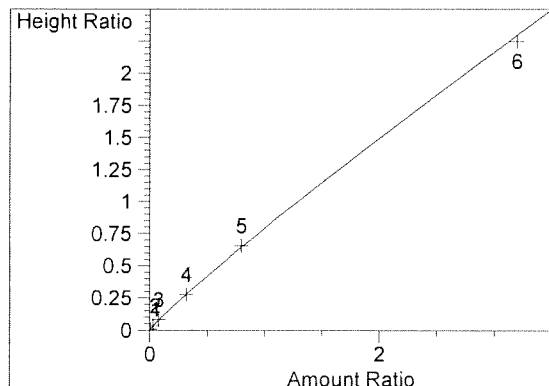
PETN [2C] at exp. RT: 7.764
ECD1 A,
Correlation: 0.99980
Residual Std. Dev.: 0.04985
Formula: $y = b * x^m$
m: 9.65473e-1
b: 7.05680e-1
x: Amount
y: Height



RDX [2C] at exp. RT: 8.323
ECD1 A,
Correlation: 0.99985
Residual Std. Dev.: 0.04359
Formula: $y = b * x^m$
m: 9.93289e-1
b: 1.39234
x: Amount
y: Height



4-AMINO-2,6-DINITROTOLUENE [2C] at exp. RT: 8.682
ECD1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00438
Formula: $y = b * x^m$
m: 8.95634e-1
b: 7.77130e-1
x: Amount
y: Height



3,5-DINITROANILINE [2C] at exp. RT: 8.840

ECD1 A,

Correlation: 0.99994

Residual Std. Dev.: 0.02447

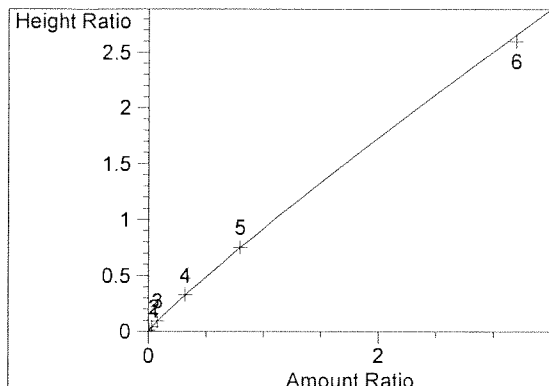
Formula: $y = b * x^m$

m: 9.16255e-1

b: 7.91137e-1

x: Amount

y: Height



2-AMINO-4,6-DINITROTOLUENE [2C] at exp. RT: 9.015

ECD1 A,

Correlation: 0.99997

Residual Std. Dev.: 0.02955

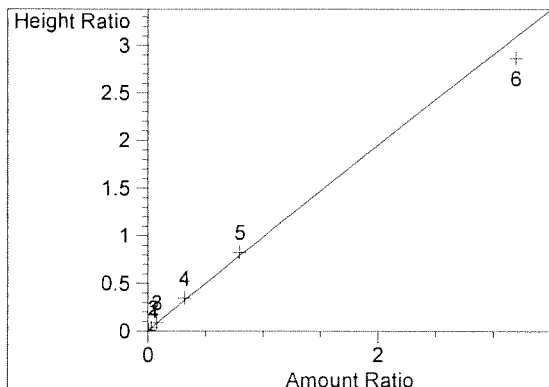
Formula: $y = b * x^m$

m: 9.13683e-1

b: 9.17968e-1

x: Amount

y: Height



SURROGATE (2,2'-DINITROBIPHENYL) [2C] at exp. RT: 9.396

ECD1 A,

Correlation: 0.99948

Residual Std. Dev.: 0.11409

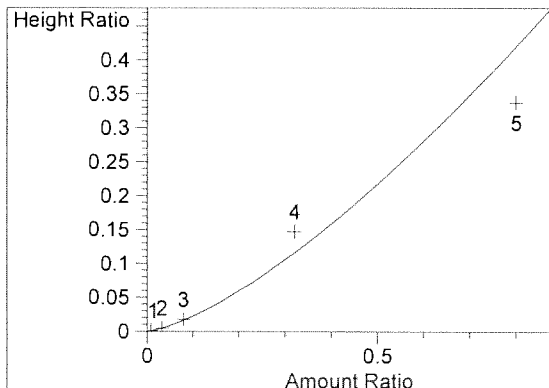
Formula: $y = b * x^m$

m: 9.80929e-1

b: 9.89006e-1

x: Amount

y: Height



TETRYL [2C] at exp. RT: 9.873

ECD1 A,

Correlation: 0.98656

Residual Std. Dev.: 0.05088

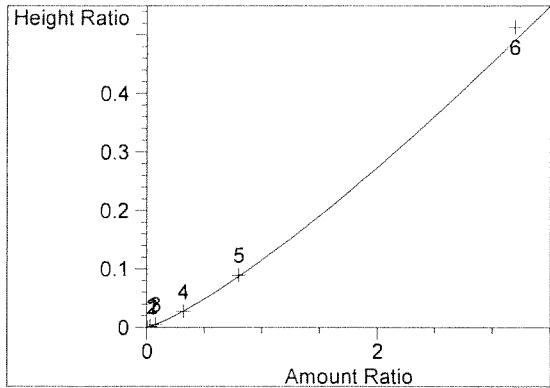
Formula: $y = b * x^m$

m: 1.40334

b: 5.74072e-1

x: Amount

y: Height



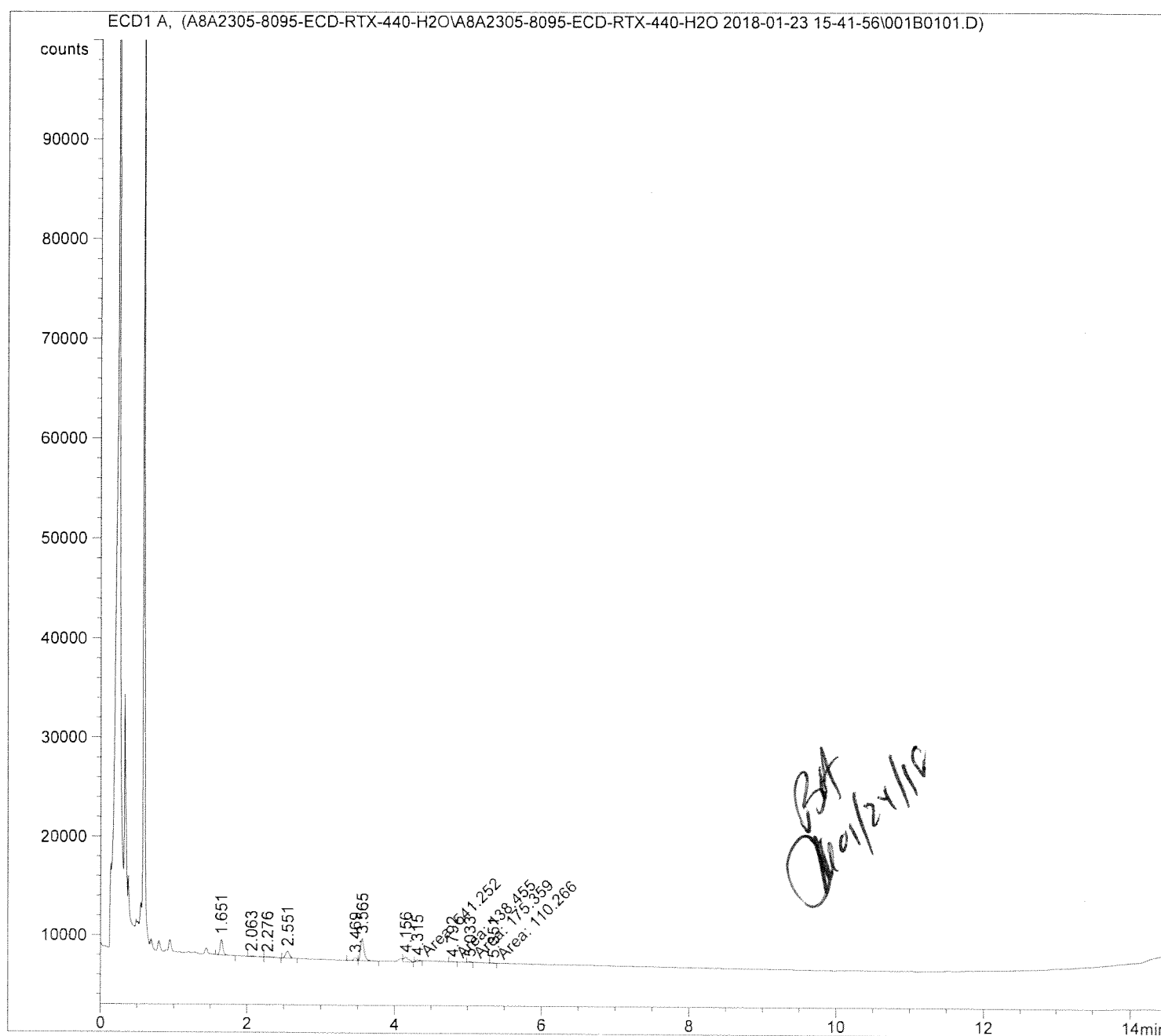
HMX [2C] at exp. RT: 12.841
ECD1 A,
Correlation: 0.99999
Residual Std. Dev.: 0.01120
Formula: $y = b * x^m$
m: 1.24648
b: 1.15148e-1
x: Amount
y: Height

=====

Sample Name: A8A2305-IBL1

```
=====
Acq. Operator   : JJK                      Seq. Line :    1
Acq. Instrument : 3337G12416              Location  : Vial 1
Injection Date  : 1/23/2018 3:44:22 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.
```

Sample Info : Instrument Blank



=====

Acq. Operator	: JJK	Seq. Line	: 1
Acq. Instrument	: 3337G12416	Location	: Vial 1
Injection Date	: 1/23/2018 3:44:22 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount	Name
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.778	1		1	-	-	-		NITROBENZENE [2C]
2.449	1		1	-	-	-		2-NITROTOLUENE [2C]
2.797	1		1	-	-	-		3-NITROTOLUENE [2C]
2.969	1		1	-	-	-		4-NITROTOLUENE [2C]
4.090	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.481	1		1	-	-	-		NITROGLYCERIN [2C]
5.193	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.253	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.883	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.192	1		1	-	-	-		3,4-DINITROTOLUENE [2C]
7.460	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.706	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.764	1		1	-	-	-		PETN [2C]
8.323	1		1	-	-	-		RDX [2C]
8.682	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE [2C]
8.840	1		1	-	-	-		3,5-DINITROANILINE [2C]
9.015	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
9.396	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.873	1		1	-	-	-		TETRYL [2C]

Sample Name: A8A2305-IBL1

```

=====
Acq. Operator   : JJK                      Seq. Line :    1
Acq. Instrument : 3337G12416                Location  : Vial 1
Injection Date  : 1/23/2018 3:44:22 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                                           H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                                           FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                                           INJECTION 2 UL.

```

Sample Info : Instrument Blank

```

=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
  [min]      used [counts]    ratio
-----|---|-----|-----|-----|-----|---|-----
12.841  1      1      -      -      -      -      HMX [2C]

```

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

```

=====
Height Percent Report
=====

```

```

Sorted By      :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Sample Amount: :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Sig	Type	Height [counts]	Height %	Name
1	1.778	1		0.00000	0.00000	NITROBENZENE [2C]
2	2.449	1		0.00000	0.00000	2-NITROTOLUENE [2C]
3	2.797	1		0.00000	0.00000	3-NITROTOLUENE [2C]
4	2.969	1		0.00000	0.00000	4-NITROTOLUENE [2C]
5	4.090	1	+I	0.00000	0.00000	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
6	4.481	1		0.00000	0.00000	NITROGLYCERIN [2C]
7	5.193	1		0.00000	0.00000	2,6-DINITROTOLUENE [2C]
8	5.253	1		0.00000	0.00000	1,3-DINTROBENZENE [2C]
9	5.883	1		0.00000	0.00000	2,4-DINITROTOLUENE [2C]
10	6.192	1		0.00000	0.00000	3,4-DINITROTOLUENE [2C]
11	7.460	1		0.00000	0.00000	2,4,6-TRINITROTOLUENE [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 1
Acq. Instrument	: 3337G12416	Location	: Vial 1
Injection Date	: 1/23/2018 3:44:22 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Peak #	RetTime [min]	Sig	Type	Height [counts]	Height %	Name
12	7.706	1		0.00000	0.00000	1,3,5-TRINITROBENZENE [2C]
13	7.764	1		0.00000	0.00000	PETN [2C]
14	8.323	1		0.00000	0.00000	RDX [2C]
15	8.682	1		0.00000	0.00000	4-AMINO-2,6-DINITROTOLUENE [2C]
16	8.840	1		0.00000	0.00000	3,5-DINITROANILINE [2C]
17	9.015	1		0.00000	0.00000	2-AMINO-4,6-DINITROTOLUENE [2C]
18	9.396	1	+	0.00000	0.00000	SURROGATE (2,2'-DINITROBIPHENYL) [2C]
19	9.873	1		0.00000	0.00000	TETRYL [2C]
20	12.841	1		0.00000	0.00000	HMX [2C]

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

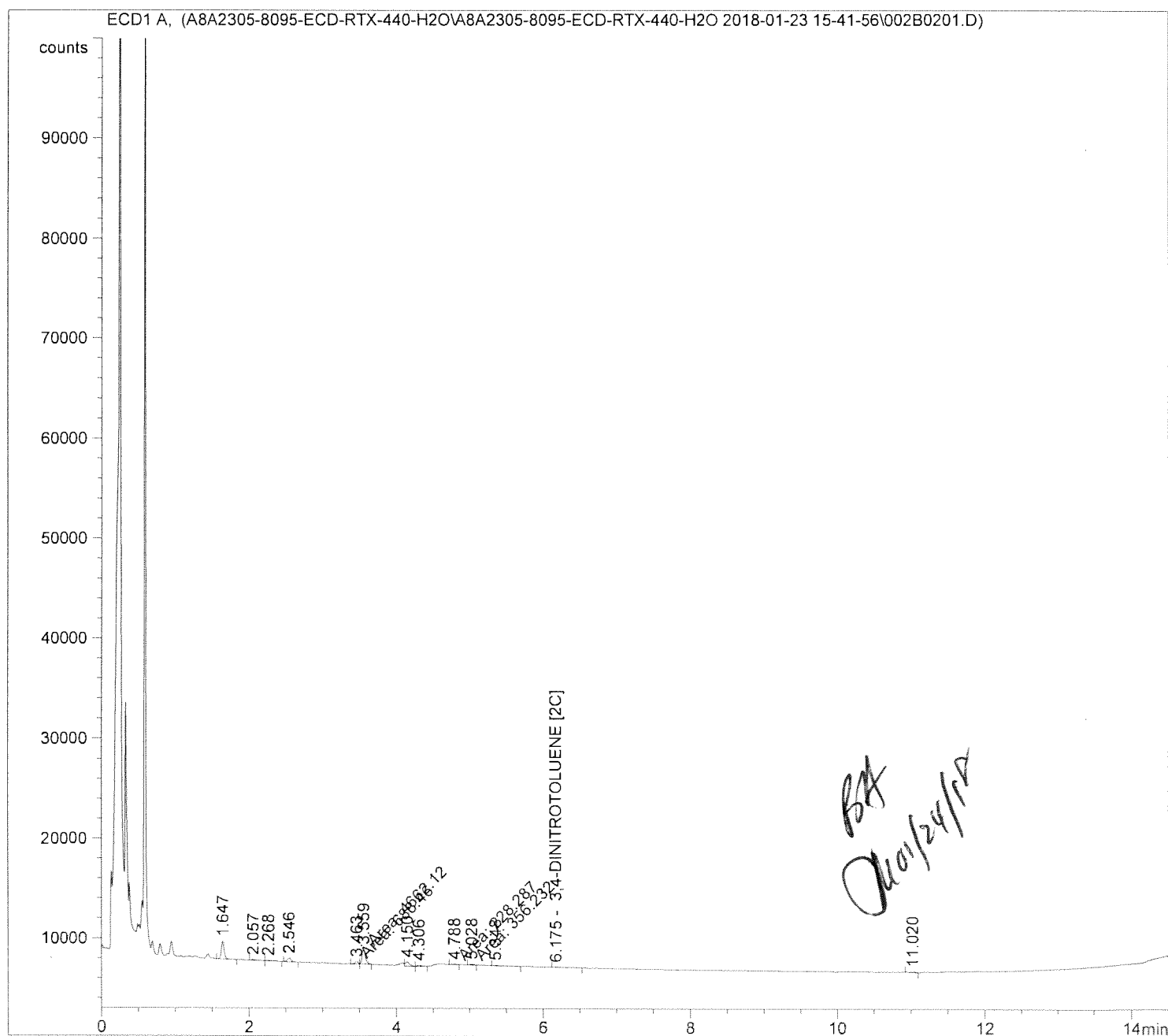
=====

*** End of Report ***

Sample Name: A8A2305-IBL2

```
=====
Acq. Operator   : JJK                      Seq. Line :    2
Acq. Instrument : 3337G12416              Location  : Vial 2
Injection Date  : 1/23/2018 4:06:26 PM      Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.
```

Sample Info : Instrument Blank



=====

Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3337G12416	Location	: Vial 2
Injection Date	: 1/23/2018 4:06:26 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount	Name
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.778	1		1	-	-	-		NITROBENZENE [2C]
2.449	1		1	-	-	-		2-NITROTOLUENE [2C]
2.797	1		1	-	-	-		3-NITROTOLUENE [2C]
2.969	1		1	-	-	-		4-NITROTOLUENE [2C]
4.090	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.481	1		1	-	-	-		NITROGLYCERIN [2C]
5.193	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.253	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.883	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.175	1	BB	1	34.48981	0.00000	0.00000		3,4-DINITROTOLUENE [2C]
7.460	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.706	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.764	1		1	-	-	-		PETN [2C]
8.323	1		1	-	-	-		RDX [2C]
8.682	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE [2C]
8.840	1		1	-	-	-		3,5-DINITROANILINE [2C]
9.015	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
9.396	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.873	1		1	-	-	-		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3337G12416	Location	: Vial 2
Injection Date	: 1/23/2018 4:06:26 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Instrument Blank

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.841	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

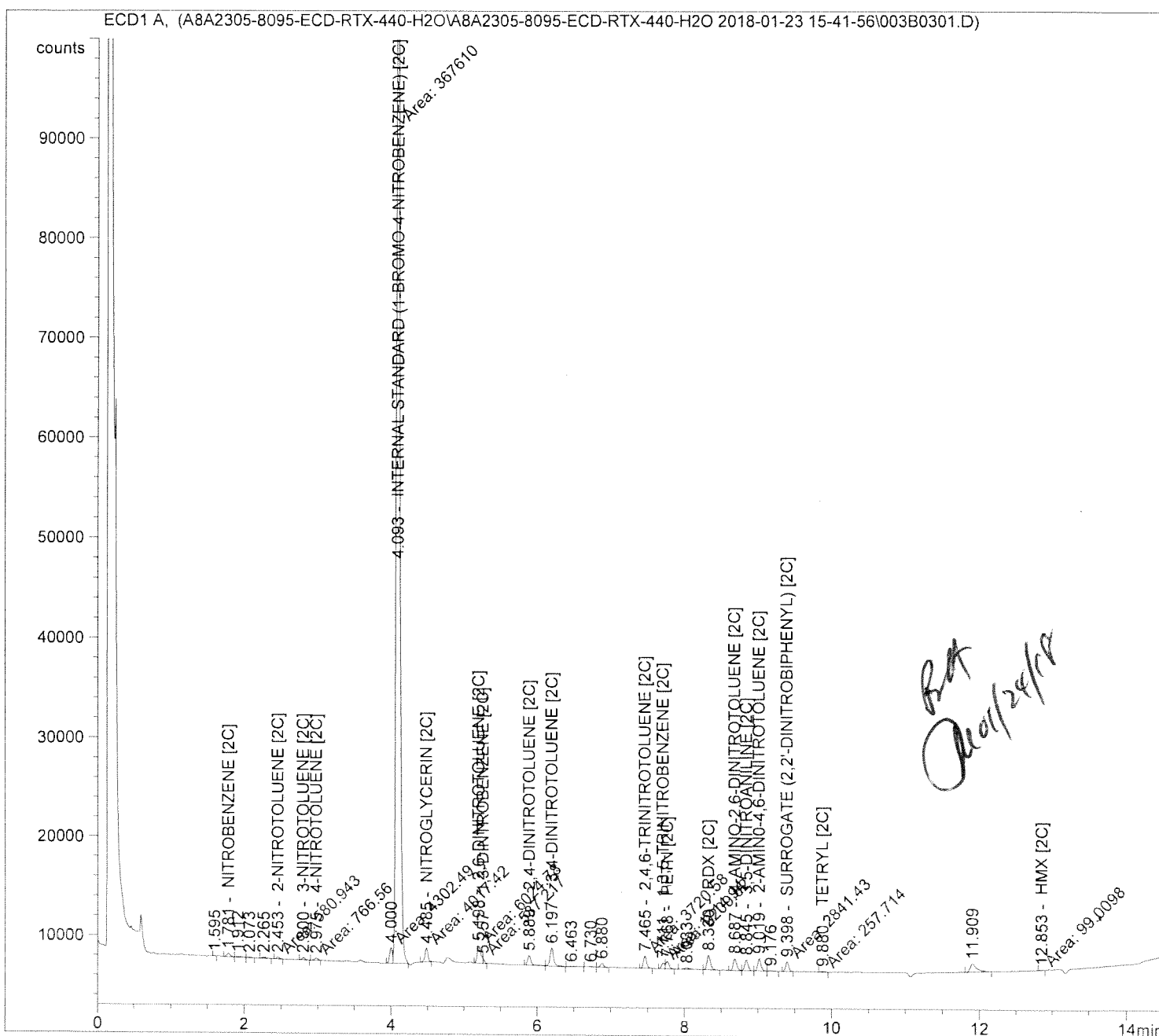
Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

=====

*** End of Report ***

Handwritten signature
01/24/18

Sample Info : 8095 CAL L-1 0.001 ug/mL



=====

Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3337G12416	Location	: Vial 3
Injection Date	: 1/23/2018 4:28:33 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CAL L-1 0.001 ug/mL

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.781	1	BV	1	336.19647	2.57865	9.49020e-4		NITROBENZENE [2C]
2.453	1	MM	1	188.38341	4.70958	9.71213e-4		2-NITROTOLUENE [2C]
2.800	1	BB	1	235.59766	3.71820	9.58945e-4		3-NITROTOLUENE [2C]
2.975	1	MM	1	231.07416	3.79644	9.60324e-4		4-NITROTOLUENE [2C]
4.093	1	FM +I	1	1.14188e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.485	1	MM	1	1401.44556	6.29715e-1	9.66073e-4		NITROGLYCERIN [2C]
5.198	1	MF	1	1727.47974	5.04737e-1	9.54483e-4		2,6-DINITROTOLUENE [2C]
5.257	1	FM	1	516.05151	1.69305	9.56426e-4		1,3-DINITROBENZENE [2C]
5.889	1	BV	1	961.23907	9.09902e-1	9.57450e-4		2,4-DINITROTOLUENE [2C]
6.197	1	VB	1	1857.12769	4.89717e-1	9.95582e-4		3,4-DINITROTOLUENE [2C]
7.465	1	MM	1	1235.58252	7.67402e-1	1.03797e-3		2,4,6-TRINITROTOLUENE [2C]
7.711	1	MF	1	579.10565	1.43911	9.12305e-4		1,3,5-TRINITROBENZENE [2C]
7.768	1	FM	1	733.32532	1.19786	9.61596e-4		PETN [2C]
8.330	1	VB	1	1453.10535	6.95787e-1	1.10678e-3		RDX [2C]
8.687	1	BV	1	1186.70129	7.78324e-1	1.01109e-3		4-AMINO-2,6-DINITROTOLUENE [2C]
8.845	1	VV	1	1059.15894	8.41908e-1	9.76148e-4		3,5-DINITROANILINE [2C]
9.019	1	VV	1	1235.62512	7.16109e-1	9.68625e-4		2-AMINO-4,6-DINITROTOLUENE [2C]
9.398	1	MM +	1	962.34100	9.21650e-1	9.70923e-4		SURROGATE (2,2'-DINITROBIPHENYL)
9.880	1	MM	1	69.69949	12.46272	9.50894e-4		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3337G12416	Location	: Vial 3
Injection Date	: 1/23/2018 4:28:33 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CAL L-1 0.001 ug/mL

=====

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
12.853	1	MM	1	34.83809	28.07297	1.07061e-3		HMX [2C]

Totals without ISTD(s) : 1.86365e-2

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

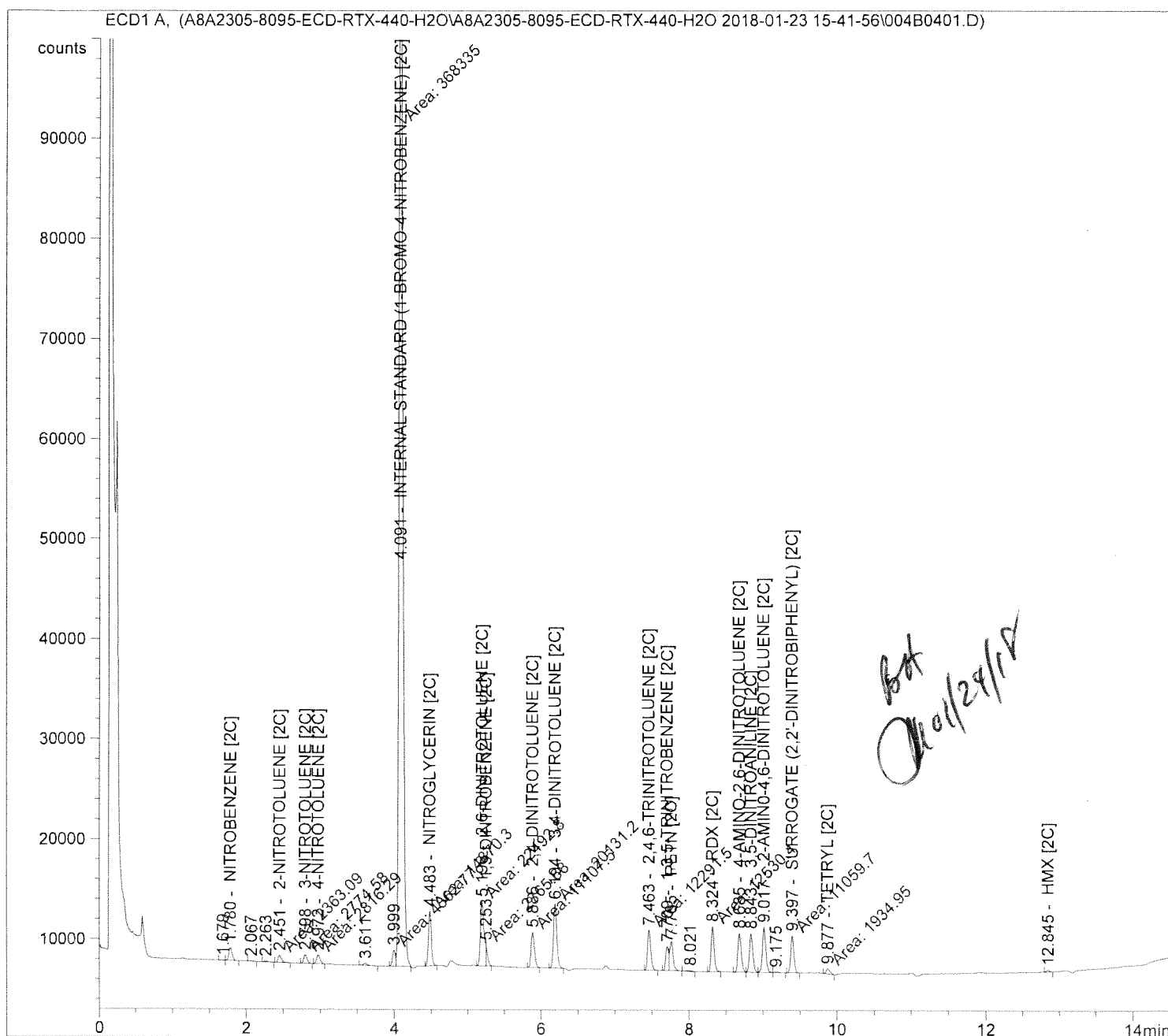
01/24/18

=====

Acq. Operator	: JJK	Seq. Line	: 4
Acq. Instrument	: 3337G12416	Location	: Vial 4
Injection Date	: 1/23/2018 4:50:36 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M		
Last changed	: 1/24/2018 4:04:25 PM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		

Sample Info : 8095 CAL L-2 0.004 ug/mL

=====



Sample Name: A8A2305-CAL2

```

=====
Acq. Operator   : JJK                               Seq. Line :    4
Acq. Instrument : 3337G12416                         Location  : Vial 4
Injection Date  : 1/23/2018 4:50:36 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CAL L-2 0.004 ug/mL

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.780	1	VB	1	1294.09619	2.90308	4.11688e-3		NITROBENZENE [2C]
2.451	1	MM	1	710.89911	5.08003	3.95747e-3		2-NITROTOLUENE [2C]
2.798	1	MM	1	881.74420	4.11133	3.97255e-3		3-NITROTOLUENE [2C]
2.972	1	MM	1	875.51929	4.17545	4.00601e-3		4-NITROTOLUENE [2C]
4.091	1	FM +I	1	1.14069e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.483	1	MM	1	5480.93994	6.63821e-1	3.98703e-3		NITROGLYCERIN [2C]
5.196	1	MF	1	6414.60352	5.77794e-1	4.06150e-3		2,6-DINITROTOLUENE [2C]
5.253	1	FM	1	2096.25586	1.81689	4.17365e-3		1,3-DINITROBENZENE [2C]
5.886	1	MM	1	3526.20044	1.04629	4.04300e-3		2,4-DINITROTOLUENE [2C]
6.194	1	MM	1	6431.27783	5.56644e-1	3.92300e-3		3,4-DINITROTOLUENE [2C]
7.463	1	MM	1	4011.95117	8.28962e-1	3.64447e-3		2,4,6-TRINITROTOLUENE [2C]
7.709	1	BV	1	2411.42505	1.57788	4.16958e-3		1,3,5-TRINITROBENZENE [2C]
7.765	1	VB	1	2914.24854	1.25850	4.01903e-3		PETN [2C]
8.324	1	MM	1	4488.96240	7.01115e-1	3.44888e-3		RDX [2C]
8.685	1	BV	1	3881.21509	8.93678e-1	3.80095e-3		4-AMINO-2,6-DINITROTOLUENE [2C]
8.843	1	VV	1	3860.51196	9.47640e-1	4.00896e-3		3,5-DINITROANILINE [2C]
9.017	1	VV	1	4535.64160	8.09795e-1	4.02492e-3		2-AMINO-4,6-DINITROTOLUENE [2C]
9.397	1	MM +	1	3707.86499	9.46158e-1	3.84442e-3		SURROGATE (2,2'-DINITROBIPHENYL)
9.877	1	MM	1	518.75305	6.99739	3.97778e-3		TETRYL [2C]

Sample Name: A8A2305-CAL2

```
=====
Acq. Operator   : JJK                               Seq. Line :    4
Acq. Instrument : 3337G12416                         Location  : Vial 4
Injection Date  : 1/23/2018 4:50:36 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
```

Sample Info : 8095 CAL L-2 0.004 ug/mL

```
=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
 [min]      used [counts]   ratio
-----|---|-----|-----|-----|-----|---|-----
 12.845   1 BB      1  175.90341  20.37711  3.92790e-3  HMX [2C]
```

Totals without ISTD(s) : 7.51080e-2

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

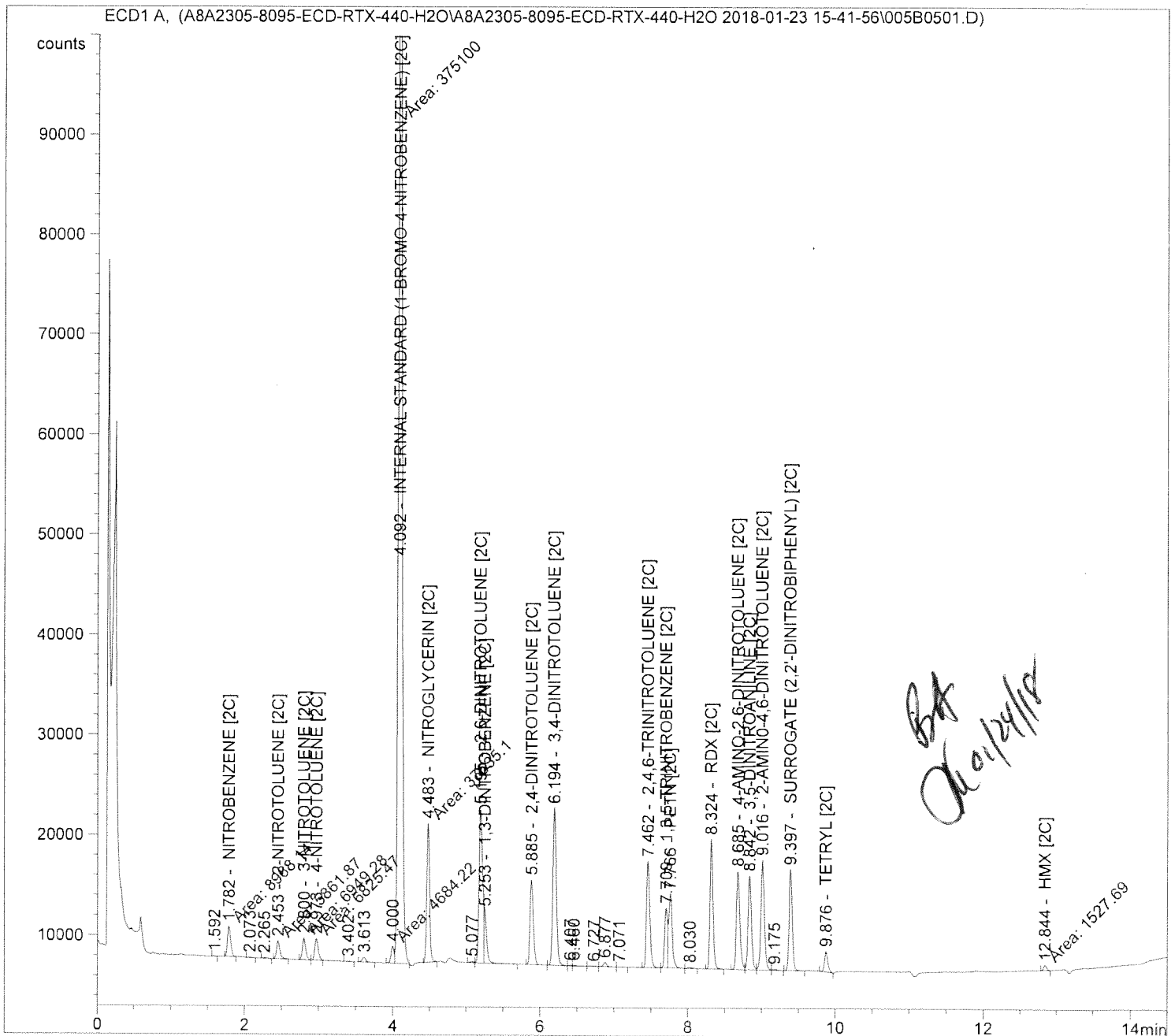
```
=====
*** End of Report ***
```


=====

Acq. Operator	: JJK	Seq. Line	: 5
Acq. Instrument	: 3337G12416	Location	: Vial 5
Injection Date	: 1/23/2018 5:12:38 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M		
Last changed	: 1/24/2018 4:04:25 PM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		

Sample Info : 8095 CAL L-3 0.01 ug/mL

=====



Sample Name: A8A2305-CAL3

```

=====
Acq. Operator   : JJK                               Seq. Line :    5
Acq. Instrument : 3337G12416                         Location  : Vial 5
Injection Date  : 1/23/2018 5:12:38 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CAL L-3 0.01 ug/mL

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.782	1	MM	1	3022.39844	3.12460	1.02335e-2		NITROBENZENE [2C]
2.453	1	MM	1	1767.35913	5.34713	1.02406e-2		2-NITROTOLUENE [2C]
2.800	1	MM	1	2177.16772	4.40031	1.03814e-2		3-NITROTOLUENE [2C]
2.973	1	MM	1	2139.38525	4.44685	1.03091e-2		4-NITROTOLUENE [2C]
4.092	1	FM +I	1	1.15353e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.483	1	MM	1	1.38522e4	6.87740e-1	1.03234e-2		NITROGLYCERIN [2C]
5.195	1	VV	1	1.53121e4	6.31213e-1	1.04735e-2		2,6-DINITROTOLUENE [2C]
5.253	1	VB B	1	5166.02051	1.90019	1.06373e-2		1,3-DINITROBENZENE [2C]
5.885	1	BB	1	8401.62207	1.14714	1.04438e-2		2,4-DINITROTOLUENE [2C]
6.194	1	BB	1	1.55998e4	6.09156e-1	1.02974e-2		3,4-DINITROTOLUENE [2C]
7.462	1	BV	1	1.05657e4	8.82563e-1	1.01047e-2		2,4,6-TRINITROTOLUENE [2C]
7.709	1	VV	1	5927.02637	1.67089	1.07316e-2		1,3,5-TRINITROBENZENE [2C]
7.766	1	VB	1	7344.19727	1.30027	1.03480e-2		PETN [2C]
8.324	1	BB	1	1.28602e4	7.06065e-1	9.83948e-3		RDX [2C]
8.685	1	BV	1	9769.81543	9.93877e-1	1.05220e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.842	1	VV	1	9310.94434	1.02600	1.03519e-2		3,5-DINITROANILINE [2C]
9.016	1	VV	1	1.08810e4	8.78653e-1	1.03601e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
9.397	1	BV +	1	9981.34766	9.64341e-1	1.04304e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.876	1	BB	1	2024.43396	4.74652	1.04126e-2		TETRYL [2C]

Sample Name: A8A2305-CAL3

```

=====
Acq. Operator   : JJK                               Seq. Line :    5
Acq. Instrument : 3337G12416                         Location  : Vial 5
Injection Date  : 1/23/2018 5:12:38 PM                Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
    
```

Sample Info : 8095 CAL L-3 0.01 ug/mL

```

=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
  [min]      used [counts]    ratio
-----|---|-----|-----|-----|-----|---|-----
  12.844   1 MM      1  516.72351  16.50306  9.24064e-3  HMX [2C]
    
```

Totals without ISTD(s) : 1.95681e-1

Handwritten signature/initials

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

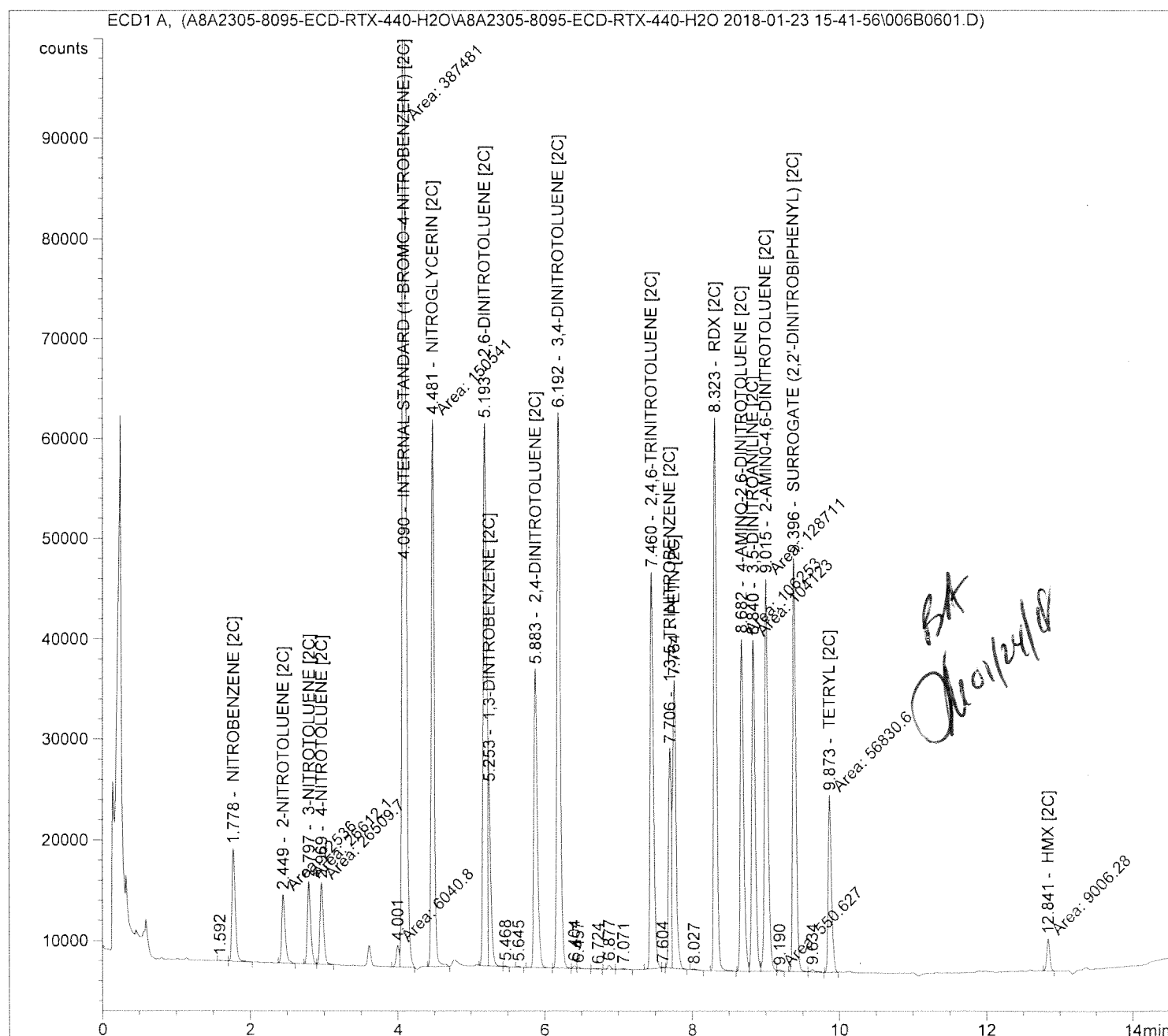
Sample Name: A8A2305-CAL4

=====

Acq. Operator : JJK Seq. Line : 6
Acq. Instrument : 3337G12416 Location : Vial 6
Injection Date : 1/23/2018 5:34:39 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed : 1/24/2018 4:04:25 PM by JJK
Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CAL L-4 0.04 ug/mL



Sample Name: A8A2305-CAL4

```

=====
Acq. Operator   : JJK                               Seq. Line :    6
Acq. Instrument : 3337G12416                         Location  : Vial 6
Injection Date  : 1/23/2018 5:34:39 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CAL L-4 0.04 ug/mL
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.778	1	VV	1	1.12065e4	3.49546	4.10390e-2		NITROBENZENE [2C]
2.449	1	MM	1	6873.27051	5.76619	4.15218e-2		2-NITROTOLUENE [2C]
2.797	1	MF	1	8213.73340	4.85566	4.17842e-2		3-NITROTOLUENE [2C]
2.969	1	FM	1	8133.62256	4.87985	4.15828e-2		4-NITROTOLUENE [2C]
4.090	1	FM +I	1	1.19313e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.481	1	MM	1	5.45721e4	7.24219e-1	4.14060e-2		NITROGLYCERIN [2C]
5.193	1	BV	1	5.40654e4	7.16268e-1	4.05713e-2		2,6-DINITROTOLUENE [2C]
5.253	1	VV B	1	1.78484e4	2.01910	3.77556e-2		1,3-DINITROBENZENE [2C]
5.883	1	BB	1	2.97070e4	1.30899	4.07399e-2		2,4-DINITROTOLUENE [2C]
6.192	1	BB	1	5.53984e4	6.91718e-1	4.01467e-2		3,4-DINITROTOLUENE [2C]
7.460	1	BV	1	3.94444e4	9.59921e-1	3.96684e-2		2,4,6-TRINITROTOLUENE [2C]
7.706	1	BV	1	2.18227e4	1.81347	4.14613e-2		1,3,5-TRINITROBENZENE [2C]
7.764	1	VB	1	2.86095e4	1.36342	4.08660e-2		PETN [2C]
8.323	1	BB	1	5.51238e4	7.12880e-1	4.11699e-2		RDX [2C]
8.682	1	MF	1	3.31327e4	1.14137	3.96194e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.840	1	FM	1	3.29866e4	1.14819	3.96805e-2		3,5-DINITROANILINE [2C]
9.015	1	FM	1	3.91099e4	9.88376e-1	4.04979e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
9.396	1	BV +	1	4.11448e4	9.90615e-1	4.27015e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.873	1	MM	1	1.75977e4	2.57433	4.74616e-2		TETRYL [2C]

Sample Name: A8A2305-CAL4

```
=====
Acq. Operator   : JJK                               Seq. Line :    6
Acq. Instrument : 3337G12416                         Location  : Vial 6
Injection Date  : 1/23/2018 5:34:39 PM                Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
```

Sample Info : 8095 CAL L-4 0.04 ug/mL

=====

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
12.841	1	MM	1	3211.21802	11.57635	3.89462e-2		HMX [2C]

Totals without ISTD(s) : 7.78620e-1

Handwritten signature

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

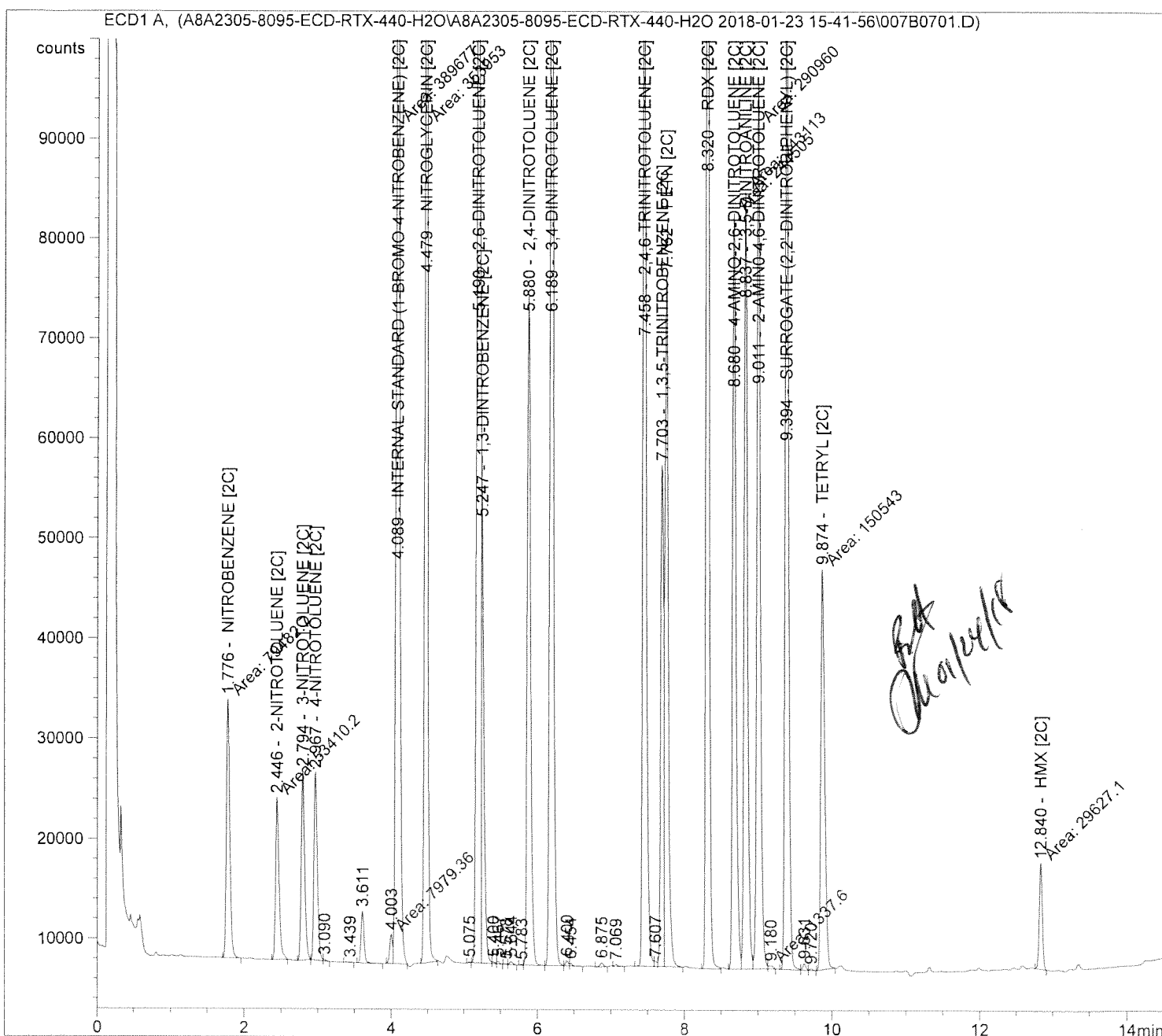
=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 7
Acq. Instrument	: 3337G12416	Location	: Vial 7
Injection Date	: 1/23/2018 5:56:41 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M		
Last changed	: 1/24/2018 4:04:25 PM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		
Sample Info	: 8095 CAL L-5 0.10 ug/mL		

=====



Sample Name: A8A2305-CAL5

```

=====
Acq. Operator   : JJK                               Seq. Line :    7
Acq. Instrument : 3337G12416                         Location  : Vial 7
Injection Date  : 1/23/2018 5:56:41 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : 8095 CAL L-5 0.10 ug/mL

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=====
Internal Standard Report
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```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

-----|-----|-----
1      1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.776	1	MM	1	2.58592e4	3.76417	1.02680e-1		NITROBENZENE [2C]
2.446	1	MM	1	1.62301e4	6.05783	1.03714e-1		2-NITROTOLUENE [2C]
2.794	1	BB	1	1.89086e4	5.17642	1.03250e-1		3-NITROTOLUENE [2C]
2.967	1	BV	1	1.87474e4	5.18209	1.02482e-1		4-NITROTOLUENE [2C]
4.089	1	FM +I	1	1.18497e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.479	1	MM	1	1.28872e5	7.48871e-1	1.01805e-1		NITROGLYCERIN [2C]
5.190	1	BV	1	1.22104e5	7.79488e-1	1.00402e-1		2,6-DINITROTOLUENE [2C]
5.247	1	VV B	1	4.40857e4	2.11383	9.83035e-2		1,3-DINITROBENZENE [2C]
5.880	1	VB	1	6.67671e4	1.42896	1.00643e-1		2,4-DINITROTOLUENE [2C]
6.189	1	BB	1	1.25808e5	7.53250e-1	9.99650e-2		3,4-DINITROTOLUENE [2C]
7.458	1	BV	1	1.05833e5	1.02445	1.14370e-1		2,4,6-TRINITROTOLUENE [2C]
7.703	1	VV	1	5.00861e4	1.91413	1.01132e-1		1,3,5-TRINITROBENZENE [2C]
7.762	1	VB	1	6.91867e4	1.40750	1.02724e-1		PETN [2C]
8.320	1	BV	1	1.38801e5	7.17376e-1	1.05036e-1		RDX [2C]
8.680	1	MF	1	7.55657e4	1.25748	1.00236e-1		4-AMINO-2,6-DINITROTOLUENE [2C]
8.837	1	FM	1	7.76982e4	1.24250	1.01837e-1		3,5-DINITROANILINE [2C]
9.011	1	MF	1	8.89125e4	1.06881	1.00245e-1		2-AMINO-4,6-DINITROTOLUENE [2C]
9.394	1	BV +	1	9.77932e4	1.00756	1.03940e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.874	1	MM	1	3.99833e4	2.02940	8.55947e-2		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 7
Acq. Instrument	: 3337G12416	Location	: Vial 7
Injection Date	: 1/23/2018 5:56:41 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : 8095 CAL L-5 0.10 ug/mL

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.840	1	MM	1	1.05928e4	9.13031	1.02023e-1		HMX [2C]

Totals without ISTD(s) : 1.93038

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

OK 1/24/18

=====

Acq. Operator	: JJK	Seq. Line	: 8
Acq. Instrument	: 3337G12416	Location	: Vial 8
Injection Date	: 1/23/2018 6:18:46 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

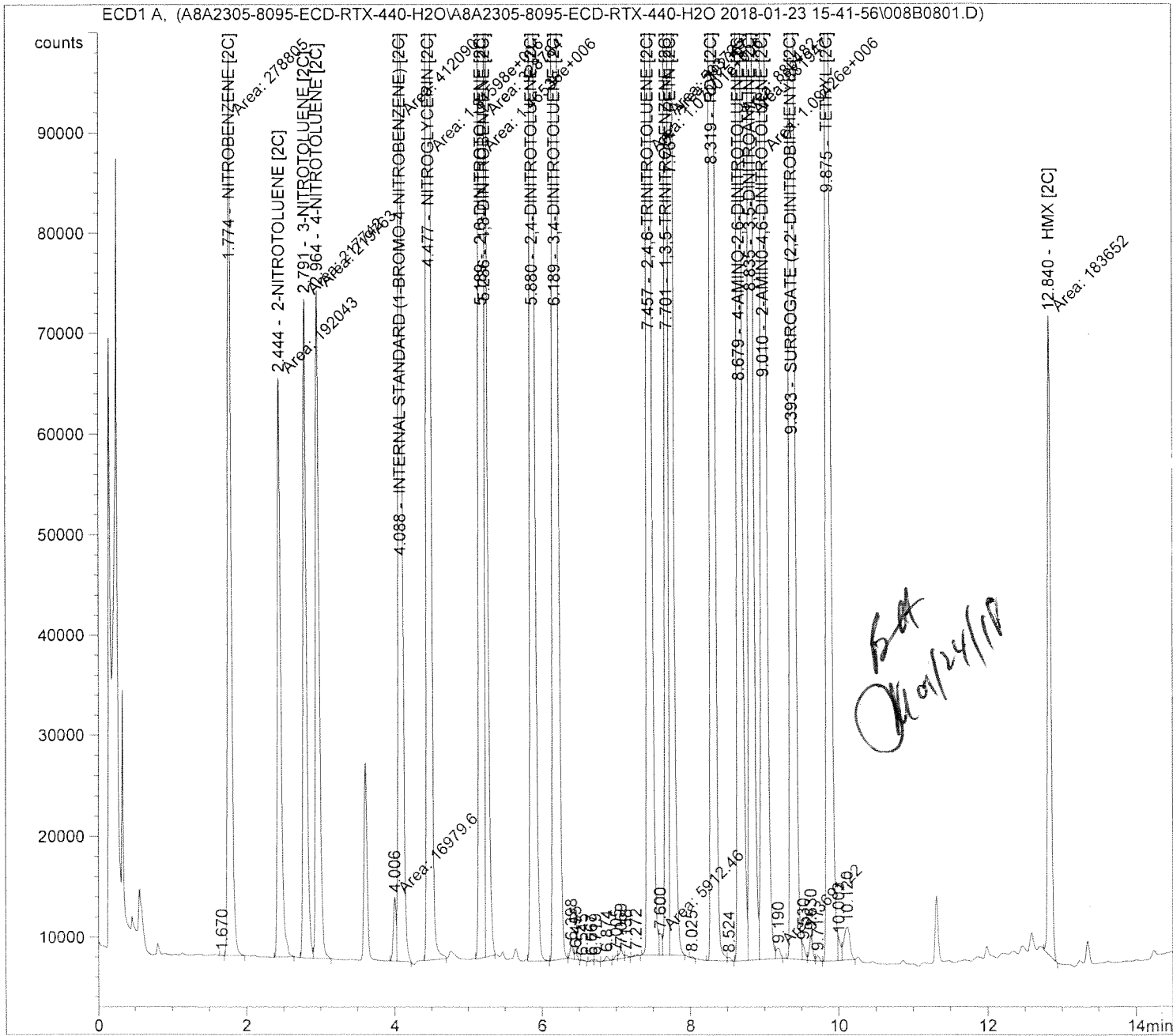
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CAL L-6 0.40 ug/mL



Sample Name: A8A2305-CAL6

```

=====
Acq. Operator   : JJK                               Seq. Line :    8
Acq. Instrument : 3337G12416                         Location  : Vial 8
Injection Date  : 1/23/2018 6:18:46 PM                Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info     : 8095 CAL L-6 0.40 ug/mL

```

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=====
Internal Standard Report
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```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount   Name
#
----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.774	1	MM	1	9.00891e4	4.18360	3.79864e-1		NITROBENZENE [2C]
2.444	1	MM	1	5.76820e4	6.49476	3.77579e-1		2-NITROTOLUENE [2C]
2.791	1	MF	1	6.56306e4	5.67085	3.75111e-1		3-NITROTOLUENE [2C]
2.964	1	FM	1	6.64569e4	5.65356	3.78676e-1		4-NITROTOLUENE [2C]
4.088	1	FM +I	1	1.24024e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.477	1	MM	1	4.81607e5	7.86626e-1	3.81826e-1		NITROGLYCERIN [2C]
5.189	1	MF	1	4.34277e5	8.84106e-1	3.86969e-1		2,6-DINITROTOLUENE [2C]
5.236	1	FM	1	1.78089e5	2.26250	4.06097e-1		1,3-DINITROBENZENE [2C]
5.880	1	VB	1	2.35317e5	1.62794	3.86097e-1		2,4-DINITROTOLUENE [2C]
6.189	1	BB	1	4.59214e5	8.56722e-1	3.96515e-1		3,4-DINITROTOLUENE [2C]
7.457	1	MF	1	3.32604e5	1.10090	3.69046e-1		2,4,6-TRINITROTOLUENE [2C]
7.701	1	MF	1	1.79049e5	2.07192	3.73896e-1		1,3,5-TRINITROBENZENE [2C]
7.761	1	FM	1	2.56836e5	1.47269	3.81218e-1		PETN [2C]
8.319	1	BV	1	5.40184e5	7.23770e-1	3.94046e-1		RDX [2C]
8.679	1	MF	1	2.72270e5	1.45231	3.98534e-1		4-AMINO-2,6-DINITROTOLUENE [2C]
8.835	1	FM	1	2.78937e5	1.39066	3.90959e-1		3,5-DINITROANILINE [2C]
9.010	1	MF	1	3.22215e5	1.20186	3.90307e-1		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	BV +	1	3.55989e5	1.03228	3.70373e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.875	1	BV	1	1.43795e5	1.42329	2.06274e-1		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 8
Acq. Instrument	: 3337G12416	Location	: Vial 8
Injection Date	: 1/23/2018 6:18:46 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M		
Last changed	: 1/24/2018 4:04:25 PM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		
Sample Info	: 8095 CAL L-6 0.40 ug/mL		

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.840	1	MM	1	6.36352e4	6.46280	4.14499e-1		HMX [2C]

Totals without ISTD(s) : 7.15789

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

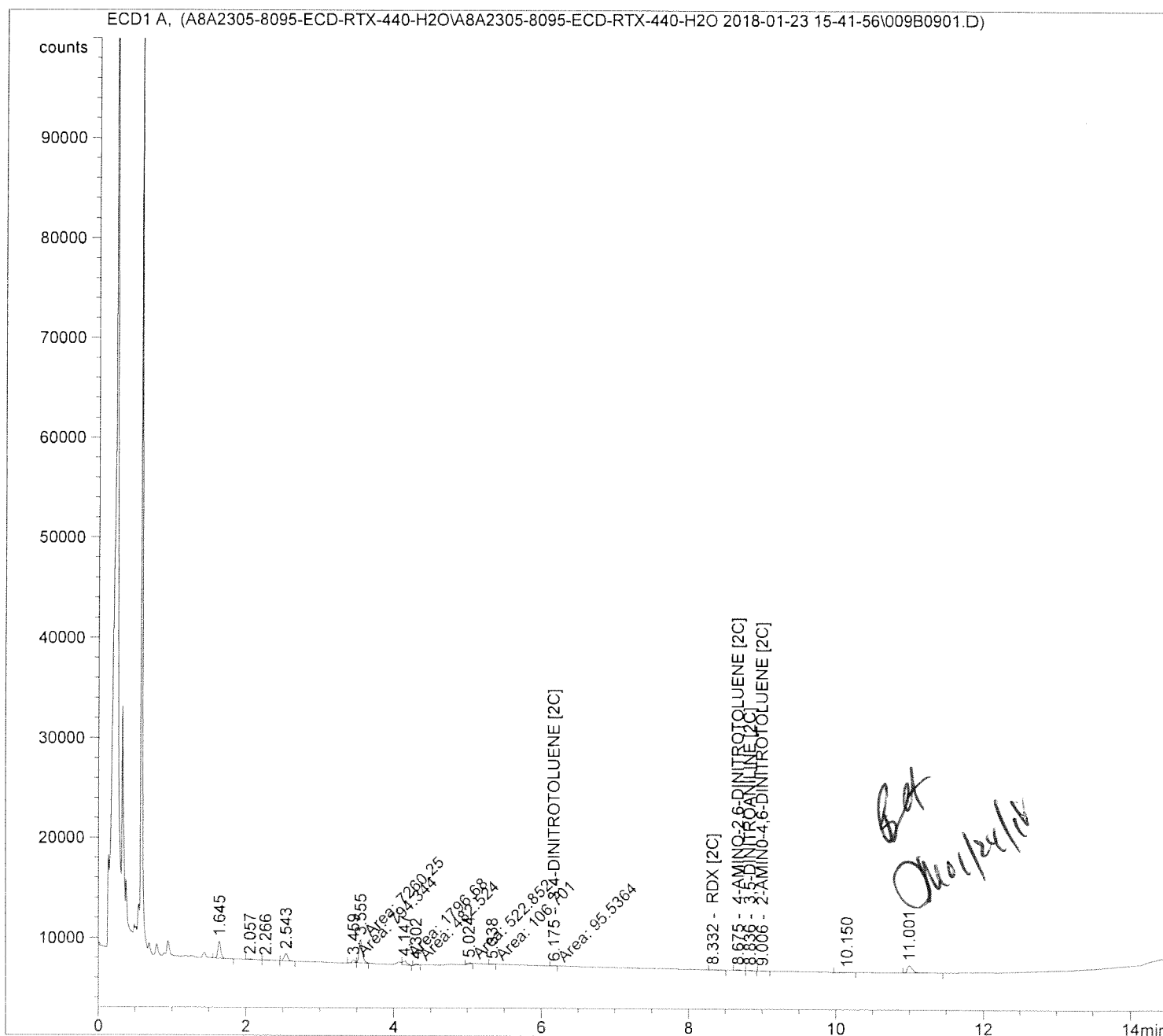
*** End of Report ***

OK 01/24/18

Sample Name: A8A2305-IBL3

```
=====
Acq. Operator   : JJK                               Seq. Line :    9
Acq. Instrument : 3337G12416                         Location  : Vial 9
Injection Date  : 1/23/2018 6:40:44 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.
=====
```

Sample Info : Instrument Blank



Sample Name: A8A2305-IBL3

```

=====
Acq. Operator   : JJK                               Seq. Line :    9
Acq. Instrument : 3337G12416                         Location  : Vial 9
Injection Date  : 1/23/2018 6:40:44 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : Instrument Blank

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

----|-----|-----
1   1.25000e-1   INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.778	1		1	-	-	-		NITROBENZENE [2C]
2.449	1		1	-	-	-		2-NITROTOLUENE [2C]
2.797	1		1	-	-	-		3-NITROTOLUENE [2C]
2.969	1		1	-	-	-		4-NITROTOLUENE [2C]
4.090	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.481	1		1	-	-	-		NITROGLYCERIN [2C]
5.193	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.253	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.883	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.175	1	MM	1	27.70387	0.00000	0.00000		3,4-DINITROTOLUENE [2C]
7.460	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.706	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.764	1		1	-	-	-		PETN [2C]
8.332	1	BB	1	37.76436	0.00000	0.00000		RDX [2C]
8.675	1	BV	1	55.61658	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE [2C]
8.836	1	VB	1	46.04450	0.00000	0.00000		3,5-DINITROANILINE [2C]
9.006	1	BB	1	35.50643	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE [2C]
9.396	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.873	1		1	-	-	-		TETRYL [2C]

Sample Name: A8A2305-IBL3

```
=====
Acq. Operator   : JJK                               Seq. Line :    9
Acq. Instrument : 3337G12416                         Location  : Vial 9
Injection Date  : 1/23/2018 6:40:44 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
```

Sample Info : Instrument Blank

=====

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
12.841	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 0.00000

Mac/24/18

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

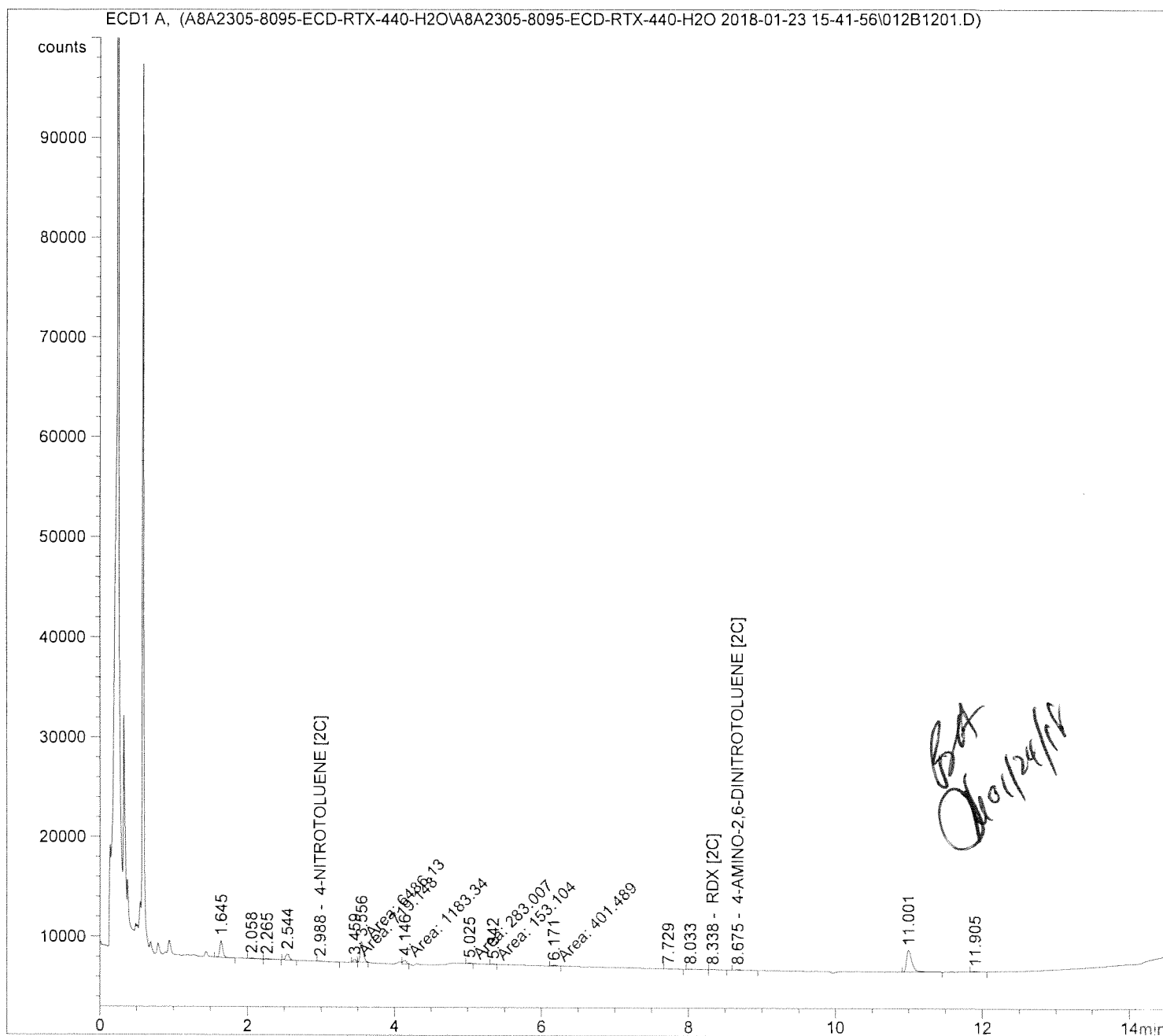
=====

*** End of Report ***

Sample Name: A8A2305-IBL4

```
=====
Acq. Operator   : JJK                      Seq. Line :   12
Acq. Instrument : 3337G12416              Location  : Vial 12
Injection Date  : 1/23/2018 7:46:36 PM    Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.
=====
```

Sample Info : Instrument Blank



Internal Standard Report

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.778	1		1	-	-	-		NITROBENZENE [2C]
2.449	1		1	-	-	-		2-NITROTOLUENE [2C]
2.797	1		1	-	-	-		3-NITROTOLUENE [2C]
2.988	1	BB	1	27.38698	0.00000	0.00000		4-NITROTOLUENE [2C]
4.090	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITRO
4.481	1		1	-	-	-		NITROGLYCERIN [2C]
5.193	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.253	1		1	-	-	-		1,3-DINTROBENZENE [2C]
5.883	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.192	1		1	-	-	-		3,4-DINITROTOLUENE [2C]
7.460	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.706	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.764	1		1	-	-	-		PETN [2C]
8.338	1	BB	1	43.13149	0.00000	0.00000		RDX [2C]
8.675	1	BB	1	81.67713	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE [2C]
8.840	1		1	-	-	-		3,5-DINITROANILINE [2C]
9.015	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
9.396	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.873	1		1	-	-	-		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3337G12416	Location	: Vial 12
Injection Date	: 1/23/2018 7:46:36 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Instrument Blank

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.841	1		1	-	-	-		HMX [2C]

Handwritten signature

Totals without ISTD(s) : 0.00000

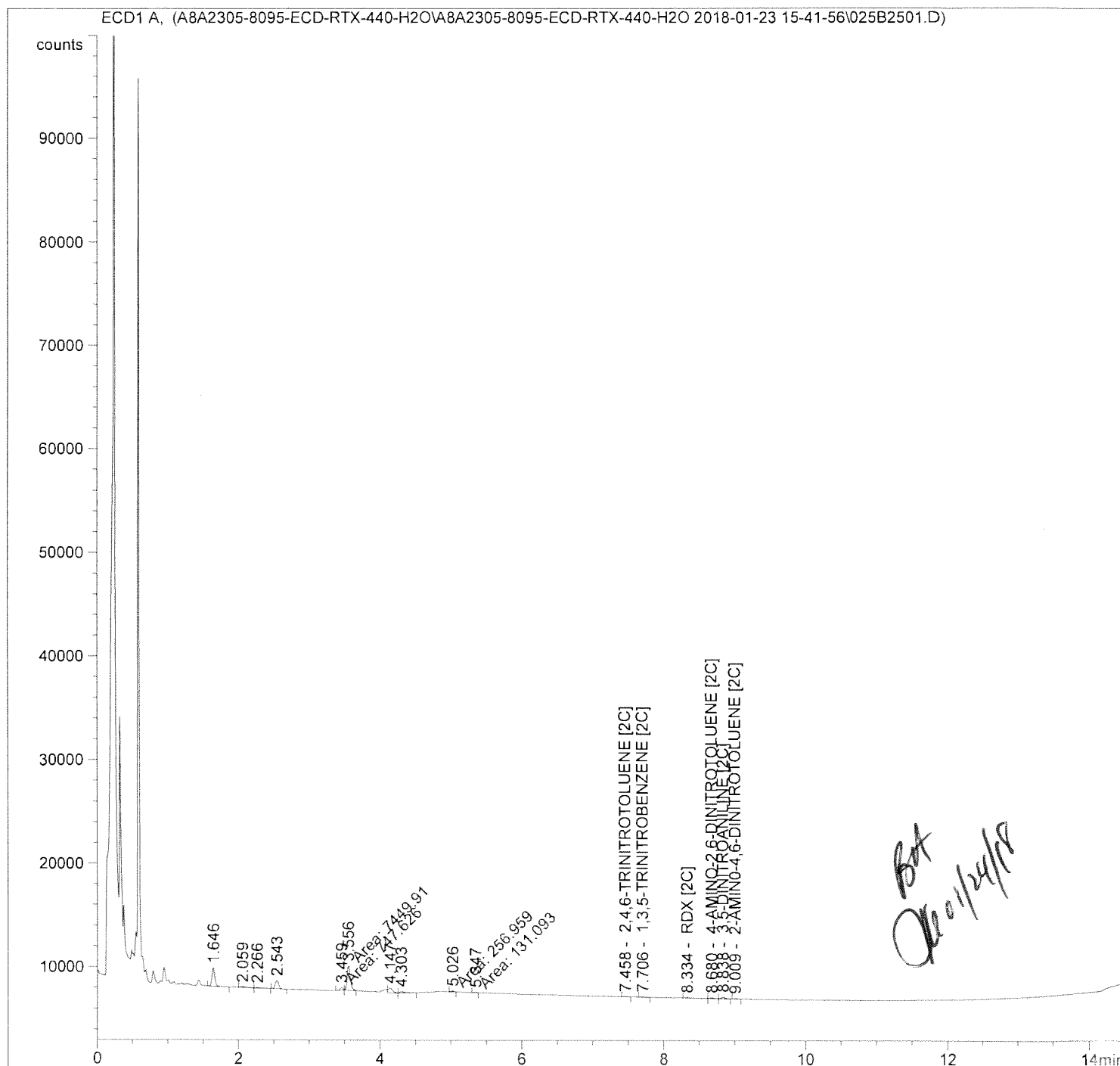
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

=====

*** End of Report ***

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104



Sample Name: A8A2305-IBL5

```

=====
Acq. Operator   : JJK                               Seq. Line :   25
Acq. Instrument : 3337G12416                         Location  : Vial 25
Injection Date  : 1/24/2018 12:33:01 AM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====

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=====
Internal Standard Report
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```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

----|-----|-----
1   1.25000e-1   INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.778	1		1	-	-	-		NITROBENZENE [2C]
2.449	1		1	-	-	-		2-NITROTOLUENE [2C]
2.797	1		1	-	-	-		3-NITROTOLUENE [2C]
2.969	1		1	-	-	-		4-NITROTOLUENE [2C]
4.090	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.481	1		1	-	-	-		NITROGLYCERIN [2C]
5.193	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
5.253	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.883	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
6.192	1		1	-	-	-		3,4-DINITROTOLUENE [2C]
7.458	1	BB	1	34.04249	0.00000	0.00000		2,4,6-TRINITROTOLUENE [2C]
7.706	1	BB	1	43.54565	0.00000	0.00000		1,3,5-TRINITROBENZENE [2C]
7.764	1		1	-	-	-		PETN [2C]
8.334	1	BV	1	46.41434	0.00000	0.00000		RDX [2C]
8.680	1	VV	1	76.43080	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE [2C]
8.838	1	VB	1	159.79817	0.00000	0.00000		3,5-DINITROANILINE [2C]
9.009	1	BB	1	39.96104	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE [2C]
9.396	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.873	1		1	-	-	-		TETRYL [2C]
12.841	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 0.00000

```
=====
Acq. Operator   : JJK                               Seq. Line :   25
Acq. Instrument : 3337G12416                         Location  : Vial 25
Injection Date  : 1/24/2018 12:33:01 AM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

```
=====
*** End of Report ***
```

method: C:\Chem32\1\METHODS\8095-ECD-RTX-TNT.M
Modified on: 11/7/2017 at 12:56:57 PM

Method Information

Method: C:\Chem32\1\METHODS\8095-ECD-RTX-TNT.M
Modified: 11/7/2017 at 12:56:57 PM

METHOD 8095 BY ECD, USING A RESTEK RTX-TNT 6 M BY 0.53 MM ID BY 1.5 UM
CAT# 12998 S/N (1173123/P). INJECTOR USING A STANDARD 4 MM
CYCLOSPITTER LINER AND CROSS GOLD SEAL. 2UL INJECTION

Method Audit Trail

*Acquisition
method*

On 01/24/18

Operator : CJM
Date : 12/7/2012 1:19:01 PM
Change Info: This method was created at 12/7/2012 1:19:01 PM and based on
method C:\CHEM32\1\METHODS\8095-ECD-RTX-TNT.M

Operator : CJM
Date : 12/7/2012 1:19:18 PM
Change Info: Method saved. User comment: "Created Method - CJM"

Operator : CJM
Date : 6/19/2013 5:55:23 PM
Change Info: Method saved. User comment: ""

Operator : RWJ
Date : 8/13/2014 4:23:55 PM
Change Info: Method saved. User comment: "EDIT INJ/DET TEMP RWJ"

Operator : RWJ
Date : 12/9/2014 11:41:30 AM
Change Info: Method saved. User comment: "CHANGE DET TO 220"

Operator : RWJ
Date : 12/9/2014 2:30:24 PM
Change Info: Method saved. User comment: "DET TMP TO 250 FUZ"

Operator : RWJ
Date : 1/13/2016 11:14:38 AM
Change Info: Method saved. User comment: "EDIT COLUMN S/N AND INJECTOR INFO.
RWJ"

Operator : RWJ
Date : 2/24/2016 3:41:58 PM
Change Info: Method saved. User comment: "EDIT TEMP PROGRAM. RWJ"

Operator : RWJ
Date : 4/4/2016 11:23:10 AM
Change Info: Method saved. User comment: "GENERAL UPDATE RWJ"

Operator : RWJ
Date : 7/6/2016 12:57:05 PM
Change Info: Method saved. User comment: "UPDATE COLUMN S/N RWJ"

Operator : RWJ
Date : 10/26/2016 2:32:34 PM
Change Info: Method saved. User comment: "update climn s/n rwj"

method: C:\Chem32\1\METHODS\8095-ECD-RTX-TNT.M
Modified on: 11/7/2017 at 12:56:57 PM
Operator : RWJ
Date : 1/27/2017 10:13:54 AM
Change Info: Method saved. User comment: "UPDATE COLUMN S/N RWJ"

Operator : RWJ
Date : 7/17/2017 10:46:54 AM
Change Info: Method saved. User comment: "ADD 2UL INJECTION RWJ"

Operator : RWJ
Date : 9/7/2017 12:50:49 PM
Change Info: Method saved. User comment: "UPDATE COLUMN S/N RWJ"

Operator : JJK
Date : 11/7/2017 12:56:57 PM
Change Info: Method saved. User comment: "CHANGED PURGE OFF FROM 15 TO 14
MINUTES 11/7/17 JJK"

Run Time Checklist

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: off

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

Save Method with Data: off

Injection Source and Location

Injection Source: Manual

Injection Location: Front

OVEN\DET

Runtime (min): 15.4

Zone Temperatures:

	State	Setpoint
Inl. A	ON	210 C.
Inl. B	OFF	50 C.
Det. A	OFF	50 C.
Det. B	ON	250 C.
Aux.	OFF	50 C.

Modified on: 11/7/2017 at 12:56:57 PM

Oven Zone:

Oven max	310 C.
Equib Time	1.00 Min.
Oven State	ON
Cryo State	OFF
Ambient	25 C.
Cryo Blast	OFF

Oven Program:

	Setpoint
Initial Temp.:	60 C.
Initial Time:	1.00 Min.

Level	Rate (C/min.)	Final Temp. (C)	Final Time (min)
1	16.0	275	1.00

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	Off	0.50	14.00
B (Valve 4)	Off	0.50	14.00

A - Splitless Injection:	No
B - Splitless Injection:	No

Valves/Relays Information

Initial Setpoints:

5890 Valves:

Valve 1:	Off
Valve 2:	Off
Valve 3 (Purge A):	Off
Valve 4 (Purge B):	Off

Detector B:

Type	ECD
State	ON

Signal Information

Save Data:

Signal 1

Signal 1:

Signal	Det. B
Data rate	5.000 Hz.
Peakwidth	0.053 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Signal 2:

Signal	Testplot
Data rate	5.000 Hz.
Peakwidth	0.053 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	0.000
Front Peak Skim Height Ratio	0.000
Skim Valley Ratio	20.000
Baseline Correction	Classical
Peak to Valley Ratio	500.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

method: C:\Chem32\1\METHODS\8095-ECD-RTX-TNT.M
Modified on: 11/7/2017 at 12:56:57 PM
Apply Manual Integration Events: No

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Sample related custom fields

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Custom Field	Type	Mand.	Default Value

None defined			

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Compound related custom fields

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Custom Field	Type	Mand.	Default Value

None defined			

method: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Modified on: 1/24/2018 at 2:39:30 PM

Method Information

Method: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Modified: 1/24/2018 at 2:39:30 PM

Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5
MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Method Audit Trail

Operator : JJK
Date : 1/24/2018 8:22:54 AM
Change Info: This method was created at 1/24/2018 8:22:54 AM and based on
method C:\CHEM32\1\METHODS\A7L1102-ECD-8095-RTX-TNT-H2O.M

Operator : JJK
Date : 1/24/2018 8:23:01 AM
Change Info: Method saved. User comment: "CREATED 01/24/18 JJK"

Operator : JJK
Date : 1/24/2018 12:55:20 PM
Change Info: Method saved. User comment: "UPDATED CAL TABLE 01/24/18 JJK"

Operator : JJK
Date : 1/24/2018 1:25:44 PM
Change Info: Method saved. User comment: "updated cal table 01/24/18 jjk"

*Proving
method*

01/24/18

Run Time Checklist

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: off

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

Save Method with Data: off

Injection Source and Location

Injection Source: Manual

Injection Location: Front

OVEN\DET

Runtime (min): 15.1

Zone Temperatures:

	State	Setpoint
Inl. A	ON	200 C.
Inl. B	OFF	50 C.
Det. A	OFF	50 C.
Det. B	ON	250 C.
Aux.	OFF	50 C.

Oven Zone:

Oven max	280 C.
Equib Time	1.00 Min.
Oven State	ON
Cryo State	OFF
Ambient	25 C.
Cryo Blast	OFF

Oven Program:

	Setpoint
Initial Temp.:	60 C.
Initial Time:	1.00 Min.

Level	Rate (C/min.)	Final Temp. (C)	Final Time (min)
1	16.0	270	1.00

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	Off	0.50	15.00
B (Valve 4)	Off	0.50	15.00

A - Splitless Injection: No
B - Splitless Injection: No

Valves/Relays Information

Initial Setpoints:

5890 Valves:

Valve 1:	Off
Valve 2:	Off
Valve 3 (Purge A):	Off
Valve 4 (Purge B):	Off

Detector B:

Type	ECD
State	ON

Signal Information

Save Data: Signal 1

Signal 1:

Signal	Det. B
Data rate	5.000 Hz.

method: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Modified on: 1/24/2018 at 2:39:30 PM

Peakwidth	0.053 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Signal 2:

Signal	Testplot
Data rate	5.000 Hz.
Peakwidth	0.053 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	0.000
Front Peak Skim Height Ratio	0.000
Skim Valley Ratio	20.000
Baseline Correction	Advanced
Peak to Valley Ratio	500.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_GC"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_GC1A"

Event	Value	Time
Initial Slope Sensitivity	25000.000	Initial
Initial Peak Width	0.100	Initial
Initial Area Reject	250.000	Initial
Initial Height Reject	50.000	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	1.661
Integration	OFF	18.250

Signal Specific Integration Event Table "Event_ECD1A"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.031	Initial
Initial Area Reject	250.000	Initial
Initial Height Reject	50.000	Initial
Initial Shoulders	DROP	Initial
Integration	OFF	0.000
Integration	ON	1.706
Baseline Now		7.500
Integration	OFF	17.874

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_ECD1B"

Event	Value	Time
Initial Slope Sensitivity	400.000	Initial
Initial Peak Width	0.050	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	5.000	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	2.063
Integration	OFF	12.873

Apply Manual Integration Events: No

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Sample related custom fields			
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Custom Field	Type	Mand.	Default Value

None defined			

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Compound related custom fields			
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Custom Field	Type	Mand.	Default Value

None defined			

Calibration Table

Calib. Data Modified : Wednesday, January 24, 2018 1:25:16 PM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.040 min
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Power (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Sample ISTD Information:
ISTD ISTD Amount Name

-----|-----
1 1.25000e-1 INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

*entire checked
go now data
01/24/18*

Signal 1: ECD1 B,

RetTime	Lvl	Amount	Height	Amt/Height	Ref	Grp	Name
[min]	Sig						
2.164	1	1 1.00000e-3	502.17395	1.99134e-6	1		NITROBENZENE
		2 4.00000e-3	1838.22388	2.17601e-6			
		3 1.00000e-2	4006.22559	2.49612e-6			
		4 4.00000e-2	1.53277e4	2.60965e-6			
		5 1.00000e-1	3.24667e4	3.08008e-6			
		6 4.00000e-1	1.25536e5	3.18633e-6			
2.849	1	1 1.00000e-3	118.67459	8.42640e-6	1		2-NITROTOLUENE
		2 4.00000e-3	549.25092	7.28265e-6			
		3 1.00000e-2	1321.19434	7.56891e-6			
		4 4.00000e-2	5399.97900	7.40744e-6			
		5 1.00000e-1	1.18044e4	8.47144e-6			
		6 4.00000e-1	4.67466e4	8.55678e-6			
3.166	1	1 1.00000e-3	324.80807	3.07874e-6	1		3-NITROTOLUENE
		2 4.00000e-3	991.12152	4.03583e-6			
		3 1.00000e-2	2364.23438	4.22970e-6			
		4 4.00000e-2	9043.49023	4.42307e-6			
		5 1.00000e-1	1.92353e4	5.19877e-6			
		6 4.00000e-1	7.33384e4	5.45417e-6			

RetTime [min]	Lvl Sig	Amount	Height	Amt/Height	Ref	Grp	Name
-----	----	-----	-----	-----	---	---	-----
3.312	1	1 1.00000e-3	196.46640	5.08993e-6	1		4-NITROTOLUENE
		2 4.00000e-3	740.66119	5.40058e-6			
		3 1.00000e-2	1786.36035	5.59797e-6			
		4 4.00000e-2	7080.12891	5.64961e-6			
		5 1.00000e-1	1.53159e4	6.52918e-6			
		6 4.00000e-1	5.90876e4	6.76961e-6			
4.290	1	1 1.25000e-1	2.32515e5	5.37599e-7	+I1		INTERNAL STANDARD (1-BROMO-4-NITROBENZ)
		2 1.25000e-1	2.46635e5	5.06822e-7			
		3 1.25000e-1	2.43030e5	5.14339e-7			
		4 1.25000e-1	2.63114e5	4.75079e-7			
		5 1.25000e-1	2.43138e5	5.14112e-7			
		6 1.25000e-1	2.72376e5	4.58925e-7			
4.580	1	1 1.00000e-3	2082.38599	4.80218e-7	1		NITROGLYCERIN
		2 4.00000e-3	7353.86768	5.43931e-7			
		3 1.00000e-2	1.75620e4	5.69411e-7			
		4 4.00000e-2	6.98953e4	5.72284e-7			
		5 1.00000e-1	1.55948e5	6.41241e-7			
		6 4.00000e-1	6.34064e5	6.30851e-7			
5.198	1	1 1.00000e-3	590.44006	1.69365e-6	1		1,3-DINTROBENZENE
		2 4.00000e-3	2952.29175	1.35488e-6			
		3 1.00000e-2	7297.34326	1.37036e-6			
		4 4.00000e-2	2.73055e4	1.46490e-6			
		5 1.00000e-1	5.96335e4	1.67691e-6			
		6 4.00000e-1	2.25122e5	1.77681e-6			
5.332	1	1 1.00000e-3	4327.29492	2.31091e-7	1		2,6-DINITROTOLUENE
		2 4.00000e-3	1.48563e4	2.69246e-7			
		3 1.00000e-2	3.26610e4	3.06176e-7			
		4 4.00000e-2	1.15956e5	3.44960e-7			
		5 1.00000e-1	2.46293e5	4.06020e-7			
		6 4.00000e-1	9.99106e5	4.00358e-7			
5.895	1	1 1.00000e-3	2475.49219	4.03960e-7	1		2,4-DINITROTOLUENE
		2 4.00000e-3	8714.43945	4.59008e-7			
		3 1.00000e-2	1.91472e4	5.22269e-7			
		4 4.00000e-2	6.76090e4	5.91637e-7			
		5 1.00000e-1	1.38907e5	7.19904e-7			
		6 4.00000e-1	5.27546e5	7.58227e-7			
6.290	1	1 1.00000e-3	4034.94482	2.47835e-7	1		3,4-DINITROTOLUENE
		2 4.00000e-3	1.52216e4	2.62784e-7			
		3 1.00000e-2	3.43388e4	2.91216e-7			
		4 4.00000e-2	1.26263e5	3.16798e-7			
		5 1.00000e-1	2.70225e5	3.70062e-7			
		6 4.00000e-1	1.07542e6	3.71949e-7			
6.978	1	1 1.00000e-3	1639.08008	6.10098e-7	1		1,3,5-TRINITROBENZENE
		2 4.00000e-3	5960.02930	6.71138e-7			
		3 1.00000e-2	1.34200e4	7.45157e-7			
		4 4.00000e-2	4.97247e4	8.04429e-7			
		5 1.00000e-1	1.07285e5	9.32093e-7			
		6 4.00000e-1	3.97370e5	1.00662e-6			
7.144	1	1 1.00000e-3	3341.71802	2.99247e-7	1		2,4,6-TRINITROTOLUENE
		2 4.00000e-3	1.02602e4	3.89856e-7			
		3 1.00000e-2	2.42877e4	4.11731e-7			
		4 4.00000e-2	9.00820e4	4.44040e-7			
		5 1.00000e-1	2.28287e5	4.38044e-7			
		6 4.00000e-1	7.89062e5	5.06931e-7			
7.771	1	1 1.00000e-3	883.30963	1.13211e-6	1		PETN
		2 4.00000e-3	3469.26636	1.15298e-6			
		3 1.00000e-2	8676.70996	1.15251e-6			

RetTime [min]	Lvl Sig	Amount	Height	Amt/Height	Ref	Grp	Name
----- ---	---	-----	-----	-----	---	---	-----
		4 4.00000e-2	3.32036e4	1.20469e-6			
		5 1.00000e-1	7.52207e4	1.32942e-6			
		6 4.00000e-1	3.19644e5	1.25139e-6			
8.092	1	1 1.00000e-3	2281.32568	4.38342e-7	1		RDX
		2 4.00000e-3	9450.88086	4.23241e-7			
		3 1.00000e-2	2.69395e4	3.71202e-7			
		4 4.00000e-2	1.16077e5	3.44599e-7			
		5 1.00000e-1	2.73544e5	3.65572e-7			
		6 4.00000e-1	1.24974e6	3.20068e-7			
8.634	1	1 1.00000e-3	3296.10815	3.03388e-7	1		4-AMINO-2,6-DINITROTOLUENE
		2 4.00000e-3	1.02814e4	3.89052e-7			
		3 1.00000e-2	2.40709e4	4.15439e-7			
		4 4.00000e-2	8.31877e4	4.80840e-7			
		5 1.00000e-1	1.78216e5	5.61118e-7			
		6 4.00000e-1	6.99127e5	5.72142e-7			
8.699	1	1 1.00000e-3	4120.92334	2.42664e-7	1		3,5-DINITROANILINE
		2 4.00000e-3	1.07839e4	3.70924e-7			
		3 1.00000e-2	2.49821e4	4.00287e-7			
		4 4.00000e-2	8.82877e4	4.53064e-7			
		5 1.00000e-1	1.94250e5	5.14800e-7			
		6 4.00000e-1	7.71491e5	5.18477e-7			
8.949	1	1 1.00000e-3	3540.80469	2.82422e-7	1		2-AMINO-4,6-DINITROTOLUENE
		2 4.00000e-3	1.15862e4	3.45240e-7			
		3 1.00000e-2	2.76384e4	3.61815e-7			
		4 4.00000e-2	9.49307e4	4.21360e-7			
		5 1.00000e-1	2.05673e5	4.86210e-7			
		6 4.00000e-1	7.99961e5	5.00024e-7			
9.459	1	1 1.00000e-3	2576.76660	3.88083e-7	+ 1		SURROGATE (2,2'-DINITROBIPHENYL)
		2 4.00000e-3	9652.21191	4.14413e-7			
		3 1.00000e-2	2.44419e4	4.09134e-7			
		4 4.00000e-2	9.41735e4	4.24748e-7			
		5 1.00000e-1	2.05935e5	4.85590e-7			
		6 4.00000e-1	8.01010e5	4.99369e-7			
9.562	1	1 1.00000e-3	226.08174	4.42318e-6	1		TETRYL
		2 4.00000e-3	1349.48425	2.96410e-6			
		3 1.00000e-2	4891.00684	2.04457e-6			
		4 4.00000e-2	4.34231e4	9.21168e-7			
		5 1.00000e-1	1.10402e5	9.05781e-7			
12.191	1	1 1.00000e-3	109.06818	9.16858e-6	1		HMX
		2 4.00000e-3	153.80565	2.60068e-5			
		3 1.00000e-2	500.96075	1.99616e-5			
		4 4.00000e-2	6279.52734	6.36991e-6			
		5 1.00000e-1	2.84189e4	3.51878e-6			
		6 4.00000e-1	2.27814e5	1.75581e-6			

More compound-specific settings:

Compound: NITROBENZENE

Curve Type : Power
Origin : Ignored

Compound: 3,5-DINITROANILINE

Curve Type : Power
Origin : Ignored

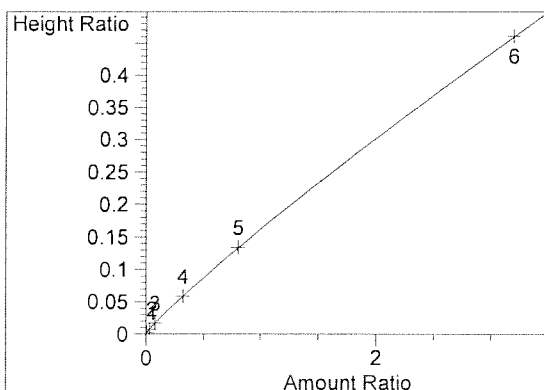
Compound: HMX

Curve Type : Power

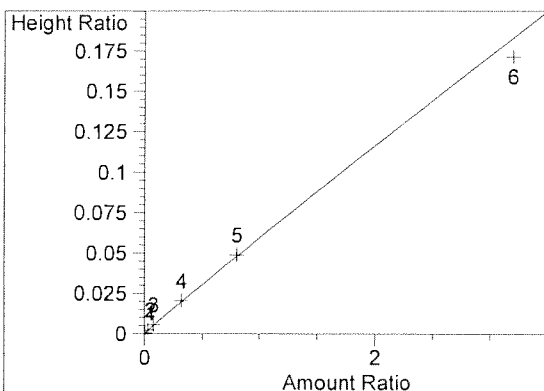
Origin : Ignored

1 Warnings or Errors :

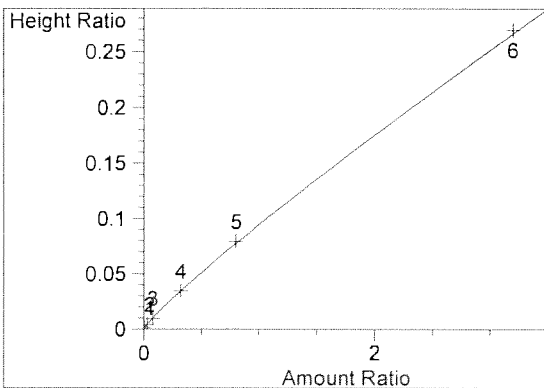
Warning : Curve requires more calibration points., (INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

=====
Peak Sum Table
=====***No Entries in table***
==========
Calibration Curves
=====

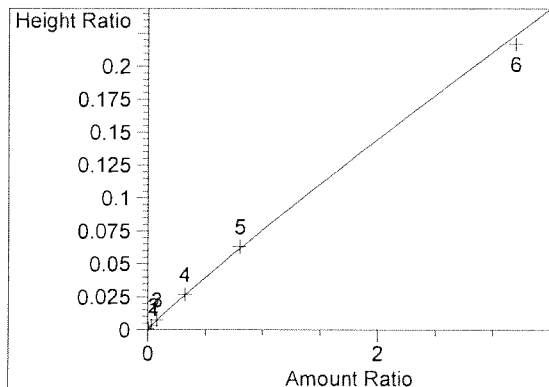
NITROBENZENE at exp. RT: 2.164
ECD1 B,
Correlation: 1.00000
Residual Std. Dev.: 0.00090
Formula: $y = b * x^m$
m: 8.96046e-1
b: 1.62008e-1
x: Amount
y: Height



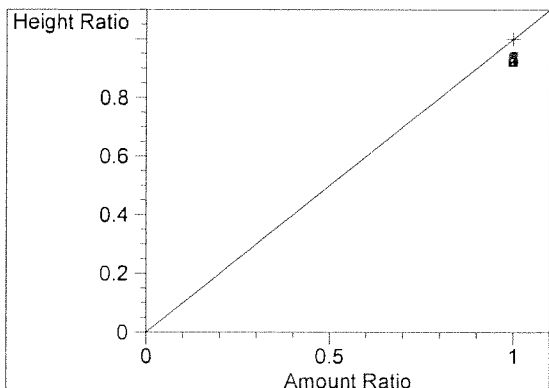
2-NITROTOLUENE at exp. RT: 2.849
ECD1 B,
Correlation: 0.99975
Residual Std. Dev.: 0.00580
Formula: $y = b * x^m$
m: 9.67603e-1
b: 5.94411e-2
x: Amount
y: Height



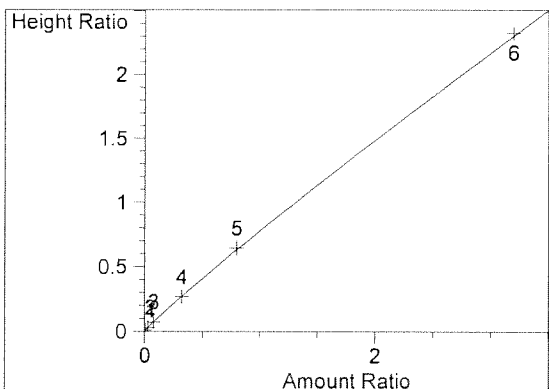
3-NITROTOLUENE at exp. RT: 3.166
ECD1 B,
Correlation: 0.99999
Residual Std. Dev.: 0.00196
Formula: $y = b * x^m$
m: 8.89677e-1
b: 9.44184e-2
x: Amount
y: Height



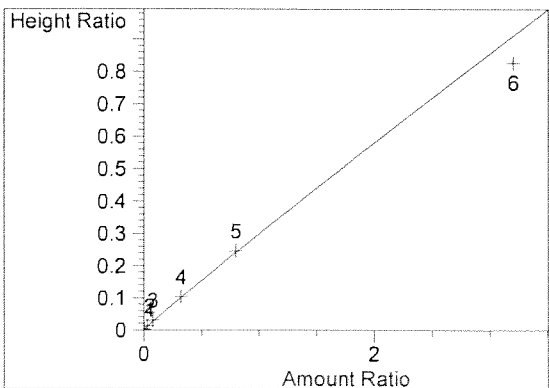
4-NITROTOLUENE at exp. RT: 3.312
 ECD1 B,
 Correlation: 0.99988
 Residual Std. Dev.: 0.00357
 Formula: $y = b * x^m$
 m: 9.30587e-1
 b: 7.58589e-2
 x: Amount
 y: Height



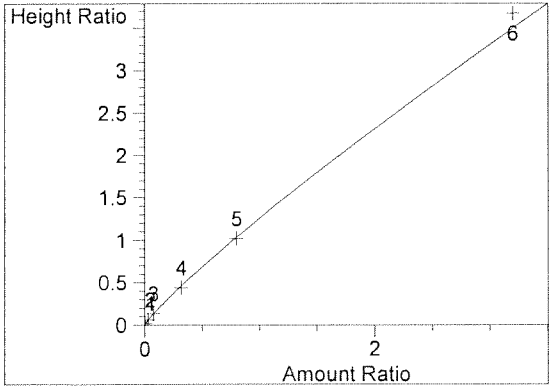
INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) at exp. RT: 4.1
 ECD1 B,
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount
 y: Height



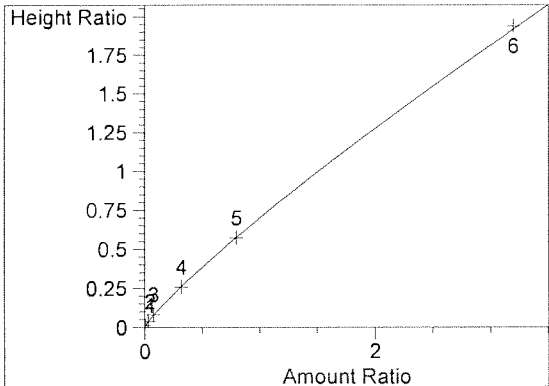
NITROGLYCERIN at exp. RT: 4.580
 ECD1 B,
 Correlation: 0.99999
 Residual Std. Dev.: 0.01336
 Formula: $y = b * x^m$
 m: 9.33926e-1
 b: 7.77331e-1
 x: Amount
 y: Height



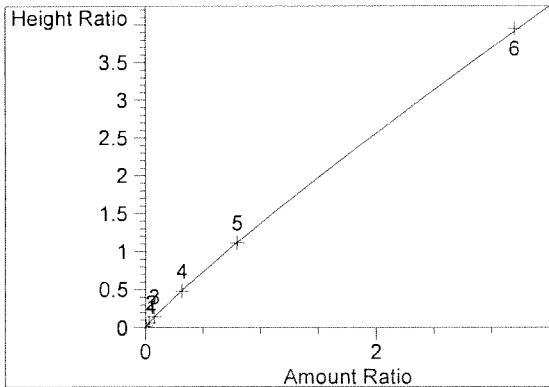
1,3-DINITROBENZENE at exp. RT: 5.198
 ECD1 B,
 Correlation: 0.99950
 Residual Std. Dev.: 0.04161
 Formula: $y = b * x^m$
 m: 9.56867e-1
 b: 2.98840e-1
 x: Amount
 y: Height



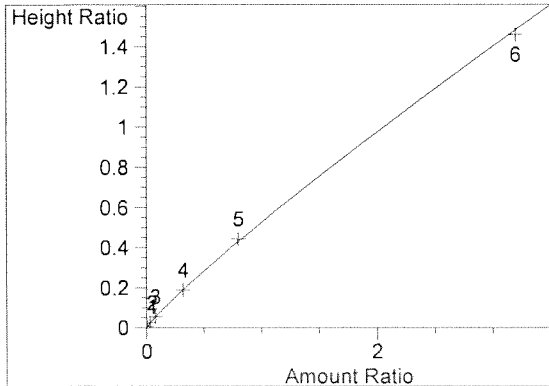
2,6-DINITROTOLUENE at exp. RT: 5.332
ECD1 B,
Correlation: 0.99979
Residual Std. Dev.: 0.08818
Formula: $y = b * x^m$
m: 8.79780e-1
b: 1.25573
x: Amount
y: Height



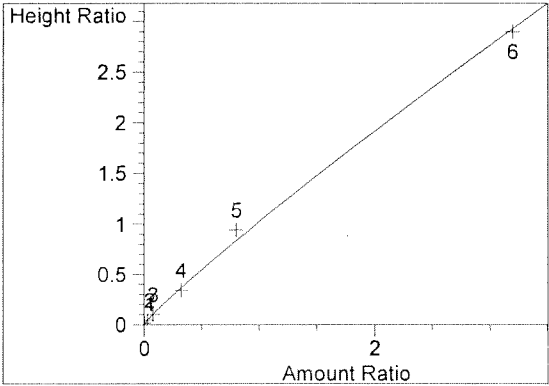
2,4-DINITROTOLUENE at exp. RT: 5.895
ECD1 B,
Correlation: 0.99998
Residual Std. Dev.: 0.01095
Formula: $y = b * x^m$
m: 8.67036e-1
b: 6.98770e-1
x: Amount
y: Height



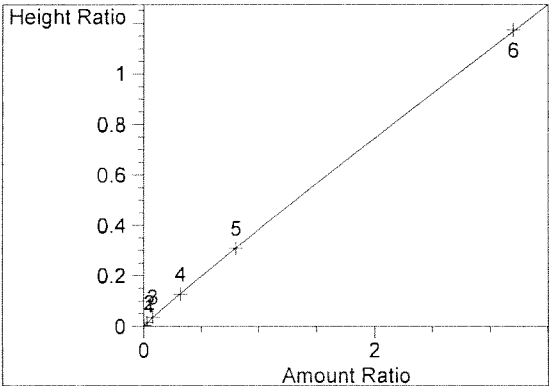
3,4-DINITROTOLUENE at exp. RT: 6.290
ECD1 B,
Correlation: 0.99999
Residual Std. Dev.: 0.01931
Formula: $y = b * x^m$
m: 9.03213e-1
b: 1.36795
x: Amount
y: Height



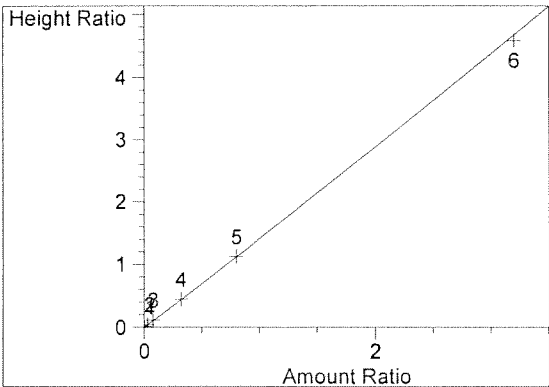
1,3,5-TRINITROBENZENE at exp. RT: 6.978
ECD1 B,
Correlation: 0.99992
Residual Std. Dev.: 0.01310
Formula: $y = b * x^m$
m: 8.92579e-1
b: 5.24987e-1
x: Amount
y: Height



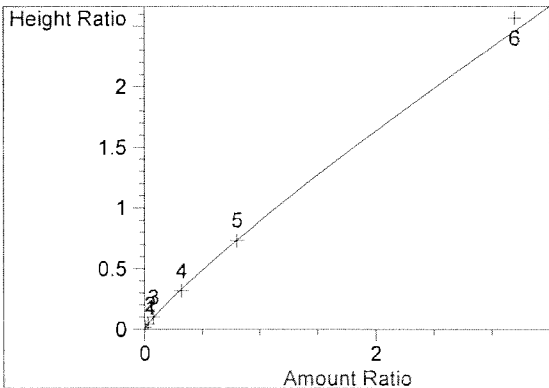
2,4,6-TRINITROTOLUENE at exp. RT: 7.144
ECD1 B,
Correlation: 0.99909
Residual Std. Dev.: 0.05469
Formula: $y = b * x^m$
m: 9.03486e-1
b: 1.02322
x: Amount
y: Height



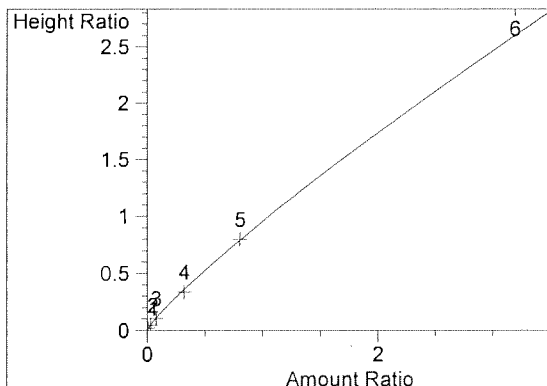
PETN at exp. RT: 7.771
ECD1 B,
Correlation: 0.99999
Residual Std. Dev.: 0.00371
Formula: $y = b * x^m$
m: 9.55749e-1
b: 3.83933e-1
x: Amount
y: Height



RDX at exp. RT: 8.092
ECD1 B,
Correlation: 0.99998
Residual Std. Dev.: 0.04288
Formula: $y = b * x^m$
m: 1.03002
b: 1.41035
x: Amount
y: Height



4-AMINO-2,6-DINITROTOLUENE at exp. RT: 8.634
ECD1 B,
Correlation: 0.99988
Residual Std. Dev.: 0.05449
Formula: $y = b * x^m$
m: 8.71433e-1
b: 8.92317e-1
x: Amount
y: Height



3,5-DINITROANILINE at exp. RT: 8.699

ECD1 B,

Correlation: 0.99968

Residual Std. Dev.: 0.11788

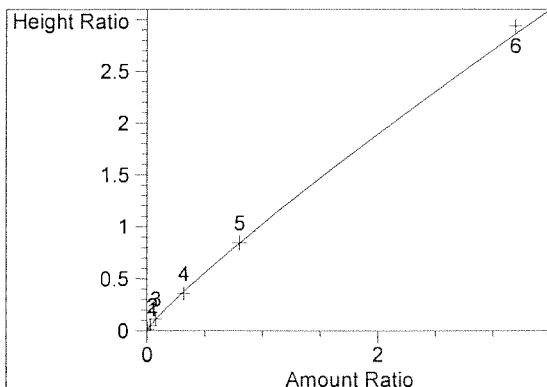
Formula: $y = b * x^m$

m: 8.59119e-1

b: 9.56531e-1

x: Amount

y: Height



2-AMINO-4,6-DINITROTOLUENE at exp. RT: 8.949

ECD1 B,

Correlation: 0.99995

Residual Std. Dev.: 0.03957

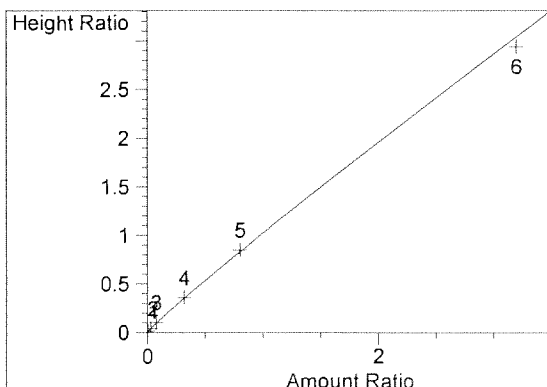
Formula: $y = b * x^m$

m: 8.80696e-1

b: 1.02662

x: Amount

y: Height



SURROGATE (2,2'-DINITROBIPHENYL) at exp. RT: 9.459

ECD1 B,

Correlation: 0.99989

Residual Std. Dev.: 0.04982

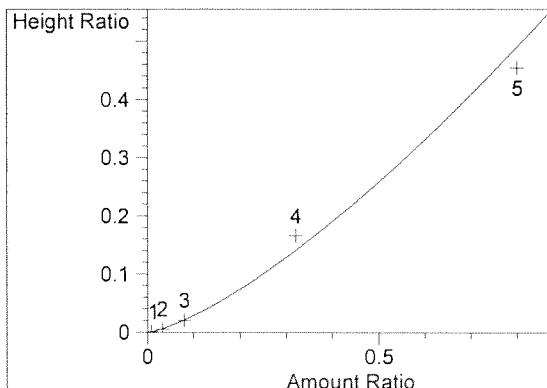
Formula: $y = b * x^m$

m: 9.35974e-1

b: 1.02303

x: Amount

y: Height



TETRYL at exp. RT: 9.562

ECD1 B,

Correlation: 0.99676

Residual Std. Dev.: 0.02505

Formula: $y = b * x^m$

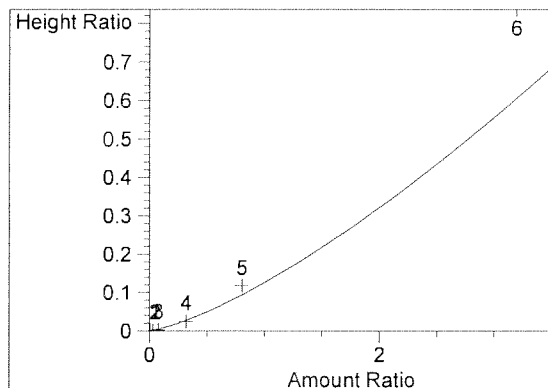
m: 1.36471

b: 6.63935e-1

x: Amount

y: Height

*Dep L-6
cause curve
to be bad.
NO H173 IN SPES
25JA18*



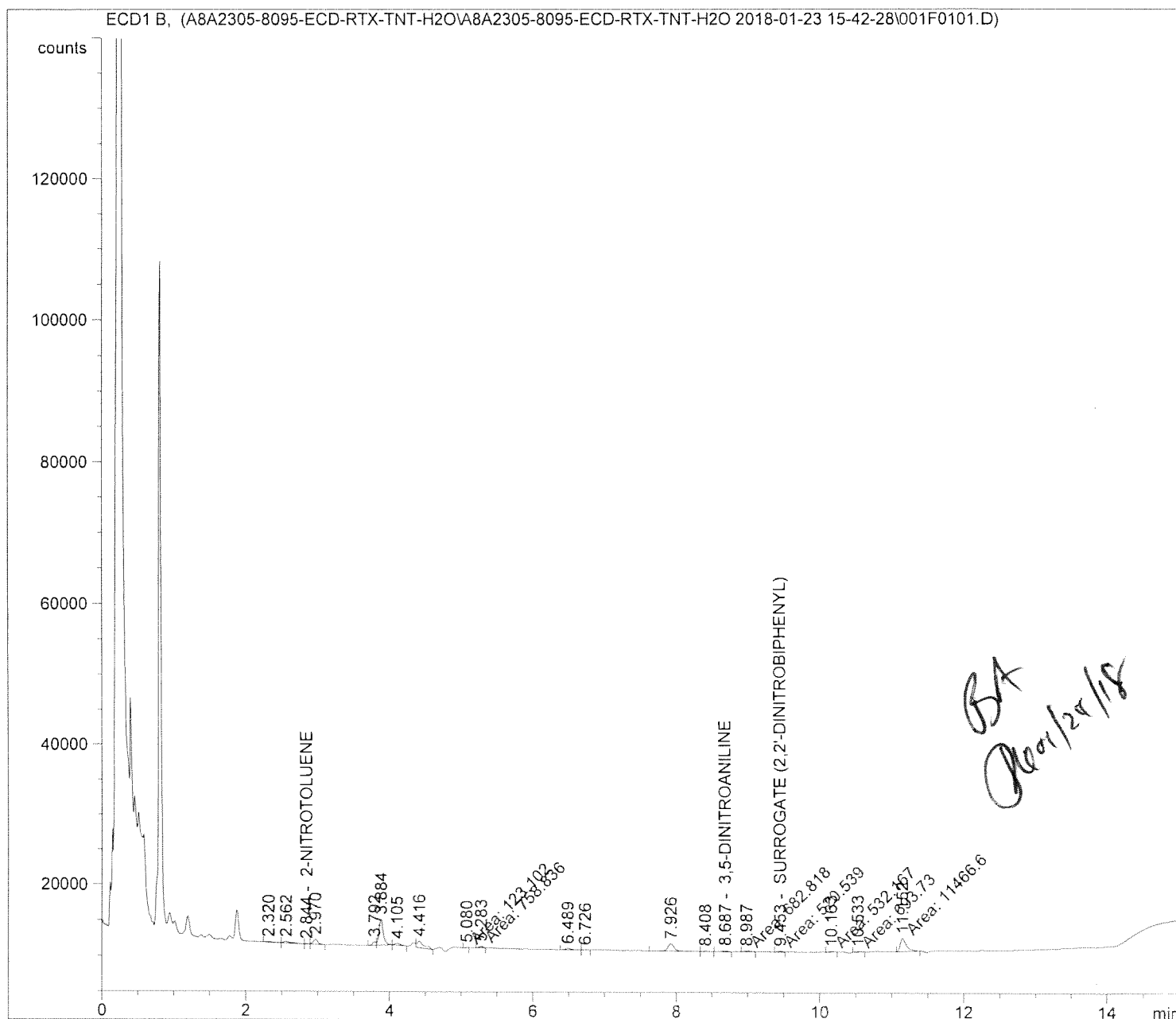
HMX at exp. RT: 12.191
ECD1 B,
Correlation: 0.99985
Residual Std. Dev.: 0.11585
Formula: $y = b * x^m$
m: 1.35103
b: 1.25883e-1
x: Amount
y: Height

=====

Sample Name: A8A2305-IBL1

```
=====
Acq. Operator   : JJK                      Seq. Line :    1
Acq. Instrument : 3336A52146              Location  : Vial 1
Injection Date  : 1/23/2018 3:44:16 PM     Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                 (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                 MICRON FILM, (S/N 1153047/P).
                 INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
=====
```



Sample Name: A8A2305-IBL1

```

=====
Acq. Operator   : JJK                               Seq. Line :    1
Acq. Instrument : 3336A52146                         Location  : Vial 1
Injection Date  : 1/23/2018 3:44:16 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

----|-----|-----
1   1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.163	1		1	-	-	-		NITROBENZENE
2.844	1	VV	1	51.98135	0.00000	0.00000		2-NITROTOLUENE
3.164	1		1	-	-	-		3-NITROTOLUENE
3.310	1		1	-	-	-		4-NITROTOLUENE
4.290	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.577	1		1	-	-	-		NITROGLYCERIN
5.195	1		1	-	-	-		1,3-DINITROBENZENE
5.328	1		1	-	-	-		2,6-DINITROTOLUENE
5.891	1		1	-	-	-		2,4-DINITROTOLUENE
6.286	1		1	-	-	-		3,4-DINITROTOLUENE
6.974	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.139	1		1	-	-	-		2,4,6-TRINITROTOLUENE
7.766	1		1	-	-	-		PETN
8.086	1		1	-	-	-		RDX
8.629	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE
8.687	1	BV	1	140.77484	0.00000	0.00000		3,5-DINITROANILINE
8.943	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.453	1	MM +	1	128.25269	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)

Sample Name: A8A2305-IBL1

```
=====
Acq. Operator   : JJK                      Seq. Line :    1
Acq. Instrument : 3336A52146                Location  : Vial 1
Injection Date  : 1/23/2018 3:44:16 PM       Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
=====
```

```
=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
  [min]          used [counts]    ratio
-----|---|-----|-----|-----|-----|---|-----
   9.556   1      1      -        -          -      TETRYL
  12.183   1      1      -        -          -      HMX
```

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

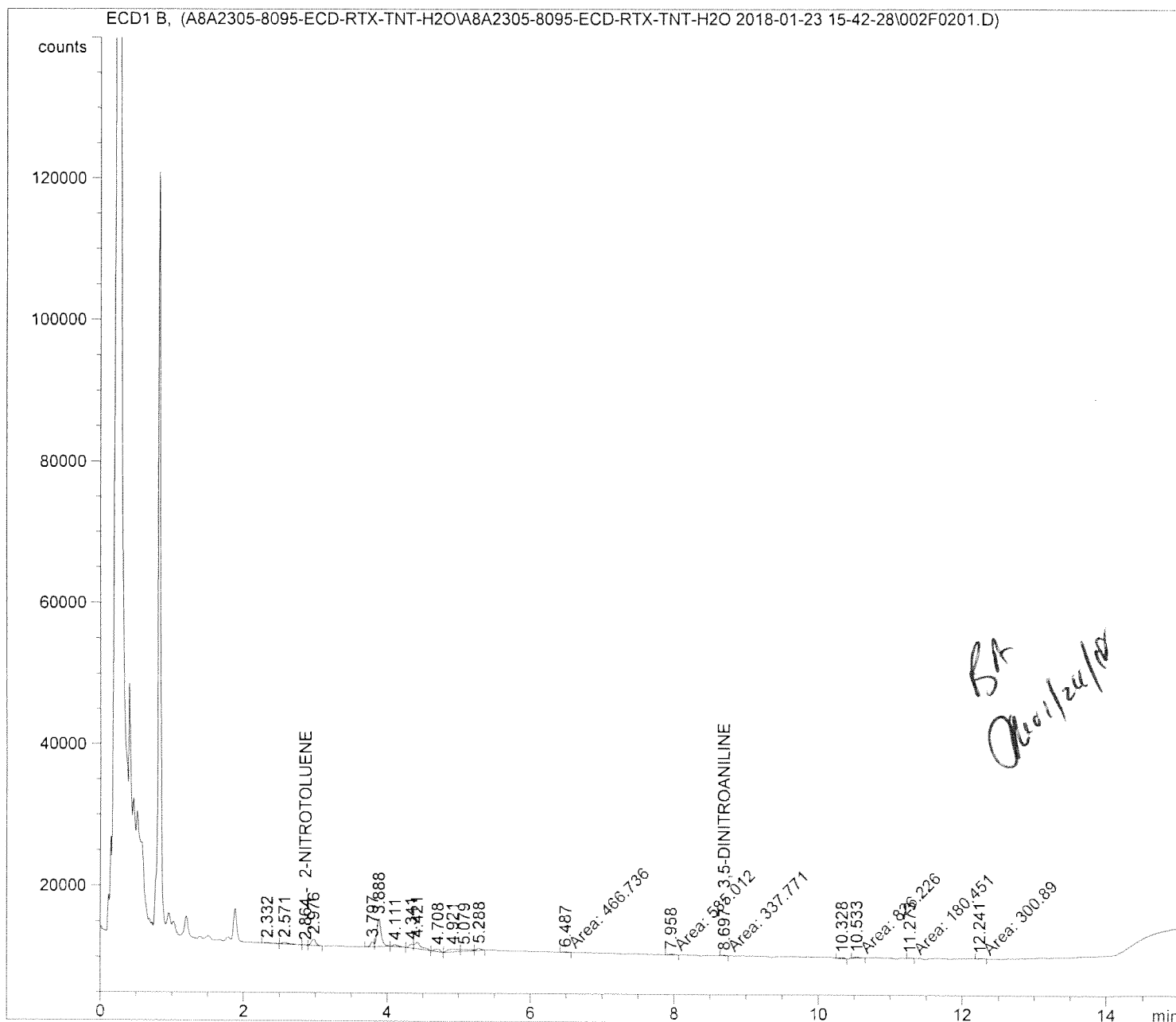
Warning : Time reference compound(s) not found

```
=====
*** End of Report ***
=====
```

Sample Name: A8A2305-IBL2

```
=====
Acq. Operator   : JJK                               Seq. Line :    2
Acq. Instrument : 3336A52146                         Location  : Vial 2
Injection Date  : 1/23/2018 4:05:43 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.
=====
```

Sample Info : Instrument Blank



Sample Name: A8A2305-IBL2

=====

Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3336A52146	Location	: Vial 2
Injection Date	: 1/23/2018 4:05:43 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : Instrument Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 1:25:16 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
------	-------------	------

#

-----|-----|-----

1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
---	------------	--

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.164	1		1	-	-	-		NITROBENZENE
2.864	1	VV	1	70.84489	0.00000	0.00000		2-NITROTOLUENE
3.166	1		1	-	-	-		3-NITROTOLUENE
3.312	1		1	-	-	-		4-NITROTOLUENE
4.290	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.580	1		1	-	-	-		NITROGLYCERIN
5.198	1		1	-	-	-		1,3-DINITROBENZENE
5.332	1		1	-	-	-		2,6-DINITROTOLUENE
5.895	1		1	-	-	-		2,4-DINITROTOLUENE
6.290	1		1	-	-	-		3,4-DINITROTOLUENE
6.978	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.144	1		1	-	-	-		2,4,6-TRINITROTOLUENE
7.771	1		1	-	-	-		PETN
8.092	1		1	-	-	-		RDX
8.634	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE
8.697	1	MM	1	82.67853	0.00000	0.00000		3,5-DINITROANILINE
8.949	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.459	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)

=====

Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3336A52146	Location	: Vial 2
Injection Date	: 1/23/2018 4:05:43 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : Instrument Blank

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
9.562	1		1	-	-	-		TETRYL
12.191	1		1	-	-	-		HMX

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

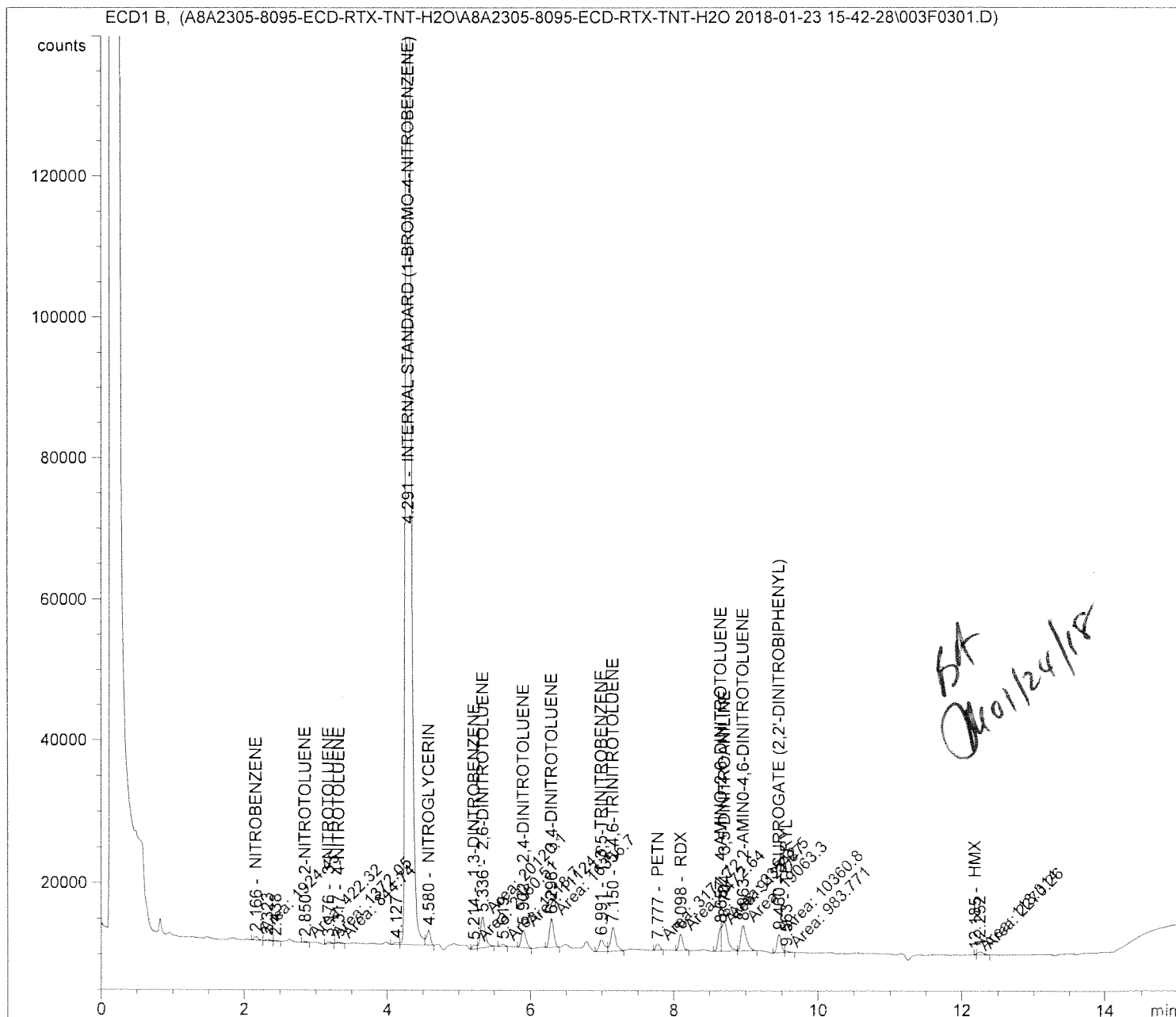
Warning : Time reference compound(s) not found

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*** End of Report ***

Handwritten signature
1/24/18

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450
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Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3336A52146	Location	: Vial 3
Injection Date	: 1/23/2018 4:27:13 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:53:32 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : 8095 CAL L-1 0.001 ug/mL

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Internal Standard Report

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Sorted By : Retention Time

Calib. Data Modified : 1/24/2018 2:53:35 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount	Name
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.166	1	MM	1	502.17395	3.74044	1.00980e-3		NITROBENZENE
2.850	1	MM	1	118.67459	14.34607	9.15270e-4		2-NITROTOLUENE
3.176	1	MM	1	324.80807	6.28106	1.09678e-3		3-NITROTOLUENE
3.317	1	MM	1	196.46640	9.42554	9.95526e-4		4-NITROTOLUENE
4.291	1	VV +I	1	2.32515e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.580	1	VB	1	2082.38599	9.38096e-1	1.05019e-3		NITROGLYCERIN
5.214	1	MF	1	590.44006	2.69909	8.56746e-4		1,3-DINITROBENZENE
5.336	1	FM	1	4327.29492	4.47875e-1	1.04191e-3		2,6-DINITROTOLUENE
5.902	1	MM	1	2475.49219	7.53358e-1	1.00259e-3		2,4-DINITROTOLUENE
6.296	1	MM	1	4034.94482	4.57807e-1	9.93067e-4		3,4-DINITROTOLUENE
6.991	1	BV	1	1639.08008	1.13386	9.99118e-4		1,3,5-TRINITROBENZENE
7.150	1	VV	1	3341.71802	6.19648e-1	1.11320e-3		2,4,6-TRINITROTOLUENE
7.777	1	MM	1	883.30963	2.10345	9.98857e-4		PETN
8.098	1	MM	1	2281.32568	8.19529e-1	1.00510e-3		RDX
8.657	1	MF	1	3296.10815	6.08234e-1	1.07778e-3		4-AMINO-2,6-DINITROTOLUENE
8.704	1	MF	1	4120.92334	5.43572e-1	1.20423e-3		3,5-DINITROANILINE
8.963	1	FM	1	3540.80469	5.50629e-1	1.04814e-3		2-AMINO-4,6-DINITROTOLUENE
9.460	1	MF +	1	2576.76660	7.17255e-1	9.93590e-4		SURROGATE (2,2'-DINITROBIPHENYL)

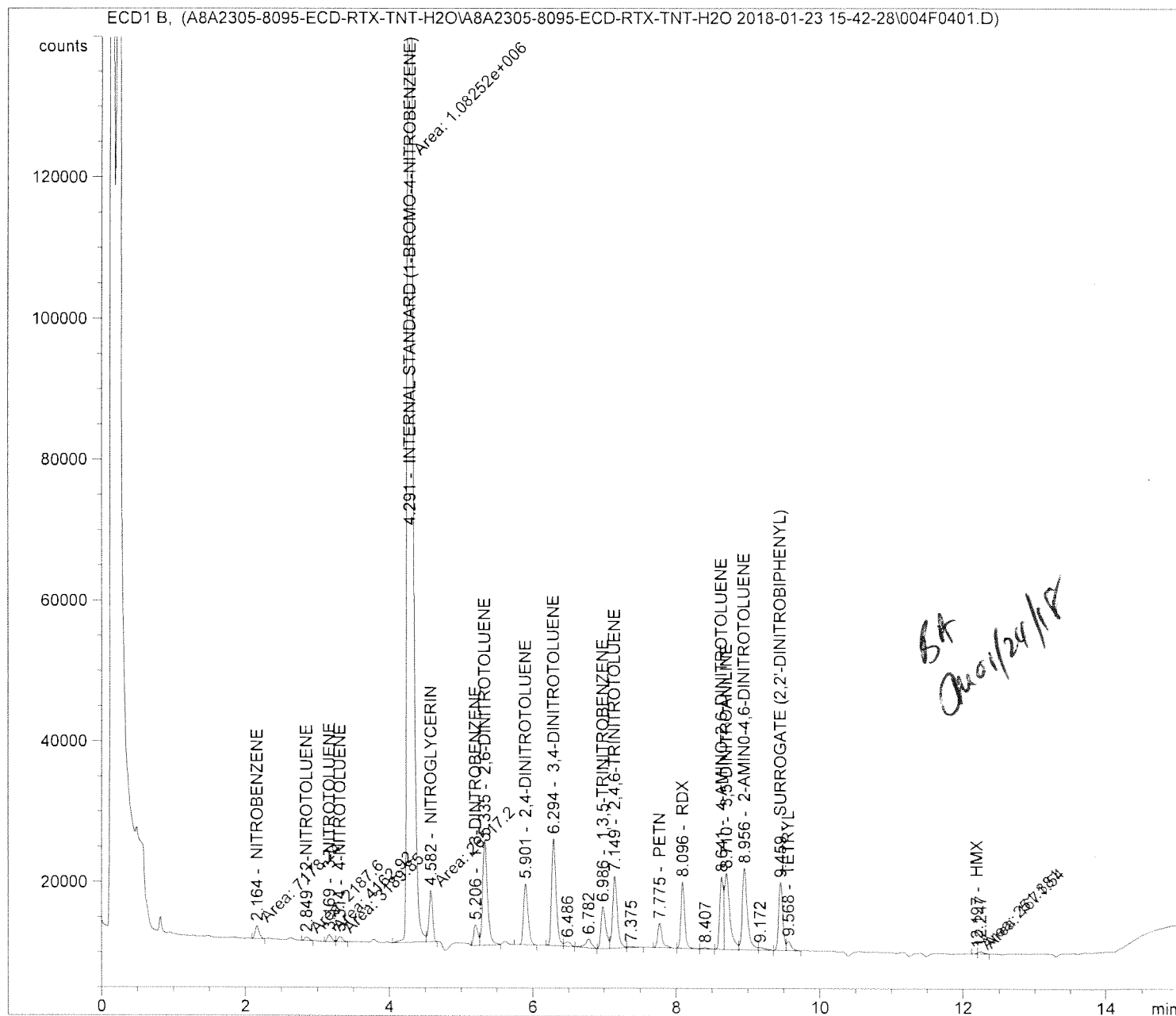
*** End of Report ***

01/24/18

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Acq. Operator	: JJK	Seq. Line	: 4
Acq. Instrument	: 3336A52146	Location	: Vial 4
Injection Date	: 1/23/2018 4:48:42 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M		
Last changed	: 11/7/2017 12:56:57 PM by JJK		
Analysis Method	: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 1/24/2018 2:39:30 PM by JJK (modified after loading)		
Method Info	: Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P). INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.		
Sample Info	: 8095 CAL L-2 0.004 ug/mL		

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Sample Name: A8A2305-CAL2

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=====
Acq. Operator   : JJK                               Seq. Line :    4
Acq. Instrument : 3336A52146                         Location  : Vial 4
Injection Date  : 1/23/2018 4:48:42 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CAL L-2 0.004 ug/mL

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Internal Standard Report
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Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

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----|-----|-----
1   1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.164	1	MM	1	1838.22388	4.31849	4.02333e-3		NITROBENZENE
2.849	1	MM	1	549.25092	15.07145	4.19548e-3		2-NITROTOLUENE
3.169	1	MF	1	991.12152	7.16041	3.59683e-3		3-NITROTOLUENE
3.314	1	FM	1	740.66119	10.36060	3.88920e-3		4-NITROTOLUENE
4.291	1	MF +I	1	2.46635e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.582	1	FM	1	7353.86768	1.02142	3.80693e-3		NITROGLYCERIN
5.206	1	BV	1	2952.29175	2.89449	4.33099e-3		1,3-DINITROBENZENE
5.335	1	VV	1	1.48563e4	5.25848e-1	3.95937e-3		2,6-DINITROTOLUENE
5.901	1	BB	1	8714.43945	9.05514e-1	3.99936e-3		2,4-DINITROTOLUENE
6.294	1	BV	1	1.52216e4	5.24480e-1	4.04619e-3		3,4-DINITROTOLUENE
6.986	1	BV	1	5960.02930	1.31507	3.97241e-3		1,3,5-TRINITROBENZENE
7.149	1	VV	1	1.02602e4	6.94150e-1	3.60965e-3		2,4,6-TRINITROTOLUENE
7.775	1	BB	1	3469.26636	2.23488	3.92960e-3		PETN
8.096	1	BV	1	9450.88086	7.87621e-1	3.77264e-3		RDX
8.641	1	BV	1	1.02814e4	7.13153e-1	3.71613e-3		4-AMINO-2,6-DINITROTOLUENE
8.710	1	VV	1	1.07839e4	6.30329e-1	3.44507e-3		3,5-DINITROANILINE
8.956	1	VV	1	1.15862e4	6.41407e-1	3.76642e-3		2-AMINO-4,6-DINITROTOLUENE
9.459	1	BV +	1	9652.21191	7.81910e-1	3.82507e-3		SURROGATE (2,2'-DINITROBIPHENYL)

Handwritten signature: 1/24/18

Sample Name: A8A2305-CAL2

=====

Acq. Operator	: JJK	Seq. Line	: 4
Acq. Instrument	: 3336A52146	Location	: Vial 4
Injection Date	: 1/23/2018 4:48:42 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : 8095 CAL L-2 0.004 ug/mL

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
9.568	1	VV	1	1349.48425	5.43018	3.71397e-3		TETRYL
12.197	1	MF	1	153.80565	31.54569	2.45905e-3		HMX

Totals without ISTD(s) : 7.20577e-2

OK 01/24/18

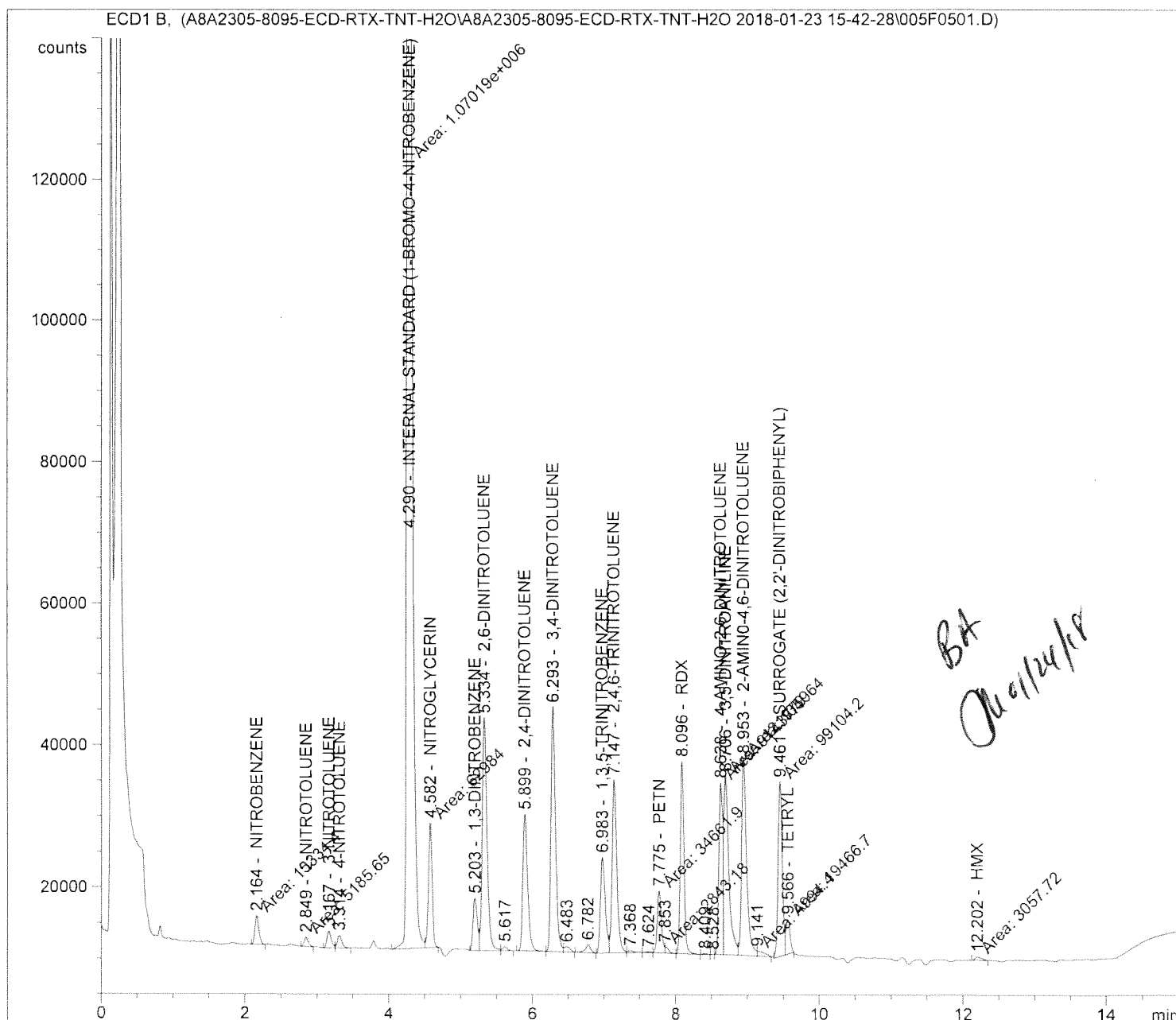
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099
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Sample Name: A8A2305-CAL3

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=====
Acq. Operator   : JJK                               Seq. Line :    5
Acq. Instrument : 3336A52146                         Location  : Vial 5
Injection Date  : 1/23/2018 5:10:13 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CAL L-3 0.01 ug/mL
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Internal Standard Report
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Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

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----|-----|-----
1   1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.164	1	MM	1	4006.22559	4.73506	9.75687e-3		NITROBENZENE
2.849	1	MM	1	1321.19434	15.52860	1.05523e-2		2-NITROTOLUENE
3.167	1	BV	1	2364.23438	7.99005	9.71605e-3		3-NITROTOLUENE
3.314	1	VV	1	1786.36035	11.07596	1.01765e-2		4-NITROTOLUENE
4.290	1	MF +I	1	2.43030e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.582	1	FM	1	1.75620e4	1.08743	9.82260e-3		NITROGLYCERIN
5.203	1	BV	1	7297.34326	3.01701	1.13238e-2		1,3-DINITROBENZENE
5.334	1	VV	1	3.26610e4	5.86791e-1	9.85740e-3		2,6-DINITROTOLUENE
5.899	1	BV	1	1.91472e4	1.02401	1.00846e-2		2,4-DINITROTOLUENE
6.293	1	VV	1	3.43388e4	5.73160e-1	1.01230e-2		3,4-DINITROTOLUENE
6.983	1	BV	1	1.34200e4	1.45259	1.00264e-2		1,3,5-TRINITROBENZENE
7.147	1	VV	1	2.42877e4	7.62278e-1	9.52247e-3		2,4,6-TRINITROTOLUENE
7.775	1	MF	1	8676.70996	2.33337	1.04133e-2		PETN
8.096	1	BB	1	2.69395e4	7.63608e-1	1.05806e-2		RDX
8.638	1	MF	1	2.40709e4	8.10273e-1	1.00317e-2		4-AMINO-2,6-DINITROTOLUENE
8.706	1	FM	1	2.49821e4	7.25180e-1	9.31803e-3		3,5-DINITROANILINE
8.953	1	MF	1	2.76384e4	7.23016e-1	1.02780e-2		2-AMINO-4,6-DINITROTOLUENE
9.461	1	MF +	1	2.44419e4	8.34059e-1	1.04853e-2		SURROGATE (2,2'-DINITROBIPHENYL)

=====

Acq. Operator	: JJK	Seq. Line	: 5
Acq. Instrument	: 3336A52146	Location	: Vial 5
Injection Date	: 1/23/2018 5:10:13 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : 8095 CAL L-3 0.01 ug/mL

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
9.566	1	FM	1	4891.00684	3.83402	9.64501e-3		TETRYL
12.202	1	MM	1	500.96075	23.12239	5.95780e-3		HMX

Totals without ISTD(s) : 1.87672e-1

1001/24/18

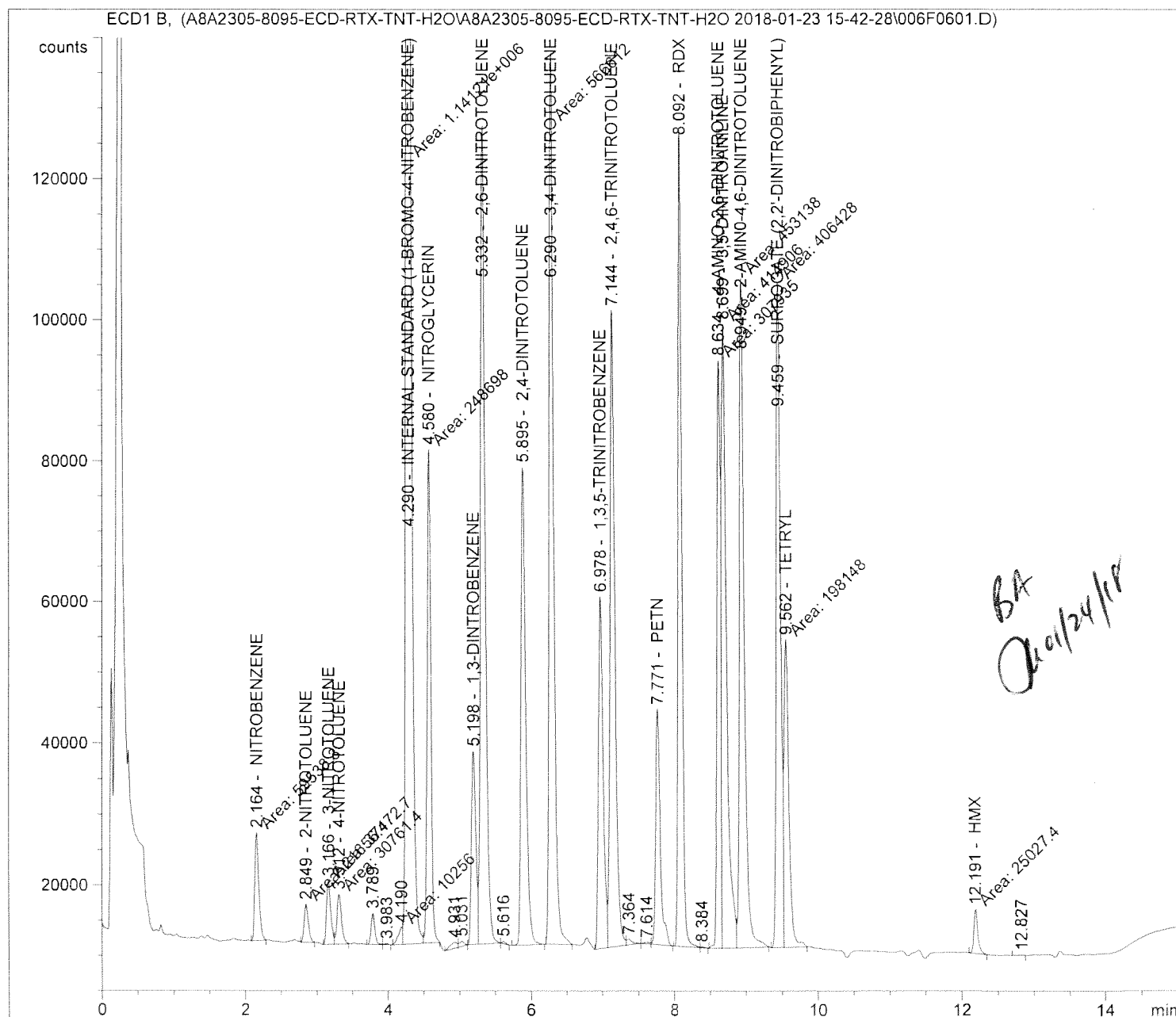
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



Sample Name: A8A2305-CAL4

```

=====
Acq. Operator   : JJK                      Seq. Line :    6
Acq. Instrument : 3336A52146                Location  : Vial 6
Injection Date  : 1/23/2018 5:31:40 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CAL L-4 0.04 ug/mL
=====

```

```

=====
Internal Standard Report
=====

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```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount   Name
#

```

```

-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.164	1	MM	1	1.53277e4	5.48189	3.99184e-2		NITROBENZENE
2.849	1	MM	1	5399.97900	16.23490	4.16492e-2		2-NITROTOLUENE
3.166	1	MF	1	9043.49023	9.34379	4.01444e-2		3-NITROTOLUENE
3.312	1	FM	1	7080.12891	12.20168	4.10418e-2		4-NITROTOLUENE
4.290	1	FM +I	1	2.63114e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.580	1	FM	1	6.98953e4	1.19235	3.95929e-2		NITROGLYCERIN
5.198	1	BV	1	2.73055e4	3.19047	4.13877e-2		1,3-DINITROBENZENE
5.332	1	VB	1	1.15956e5	6.90182e-1	3.80208e-2		2,6-DINITROTOLUENE
5.895	1	BB	1	6.76090e4	1.22754	3.94282e-2		2,4-DINITROTOLUENE
6.290	1	MM	1	1.26263e5	6.53399e-1	3.91941e-2		3,4-DINITROTOLUENE
6.978	1	BV	1	4.97247e4	1.68442	3.97912e-2		1,3,5-TRINITROBENZENE
7.144	1	VV	1	9.00820e4	8.69439e-1	3.72086e-2		2,4,6-TRINITROTOLUENE
7.771	1	VB	1	3.32036e4	2.47384	3.90231e-2		PETN
8.092	1	BV	1	1.16077e5	7.33474e-1	4.04479e-2		RDX
8.634	1	MF	1	8.31877e4	9.61615e-1	3.80037e-2		4-AMINO-2,6-DINITROTOLUENE
8.699	1	FM	1	8.82877e4	8.80436e-1	3.69287e-2		3,5-DINITROANILINE
8.949	1	FM	1	9.49307e4	8.45418e-1	3.81279e-2		2-AMINO-4,6-DINITROTOLUENE
9.459	1	MF +	1	9.41735e4	9.09724e-1	4.07009e-2		SURROGATE (2,2'-DINITROBIPHENYL)

=====

Acq. Operator	: JJK	Seq. Line	: 6
Acq. Instrument	: 3336A52146	Location	: Vial 6
Injection Date	: 1/23/2018 5:31:40 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M		
Last changed	: 11/7/2017 12:56:57 PM by JJK		
Analysis Method	: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 1/24/2018 2:39:30 PM by JJK (modified after loading)		
Method Info	: Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P). INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.		
Sample Info	: 8095 CAL L-4 0.04 ug/mL		

=====

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
9.562	1	FM	1	4.34231e4	2.18493	4.50737e-2		TETRYL
12.191	1	MM	1	6279.52734	12.23695	3.65061e-2		HMX

Totals without ISTD(s) : 7.52189e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

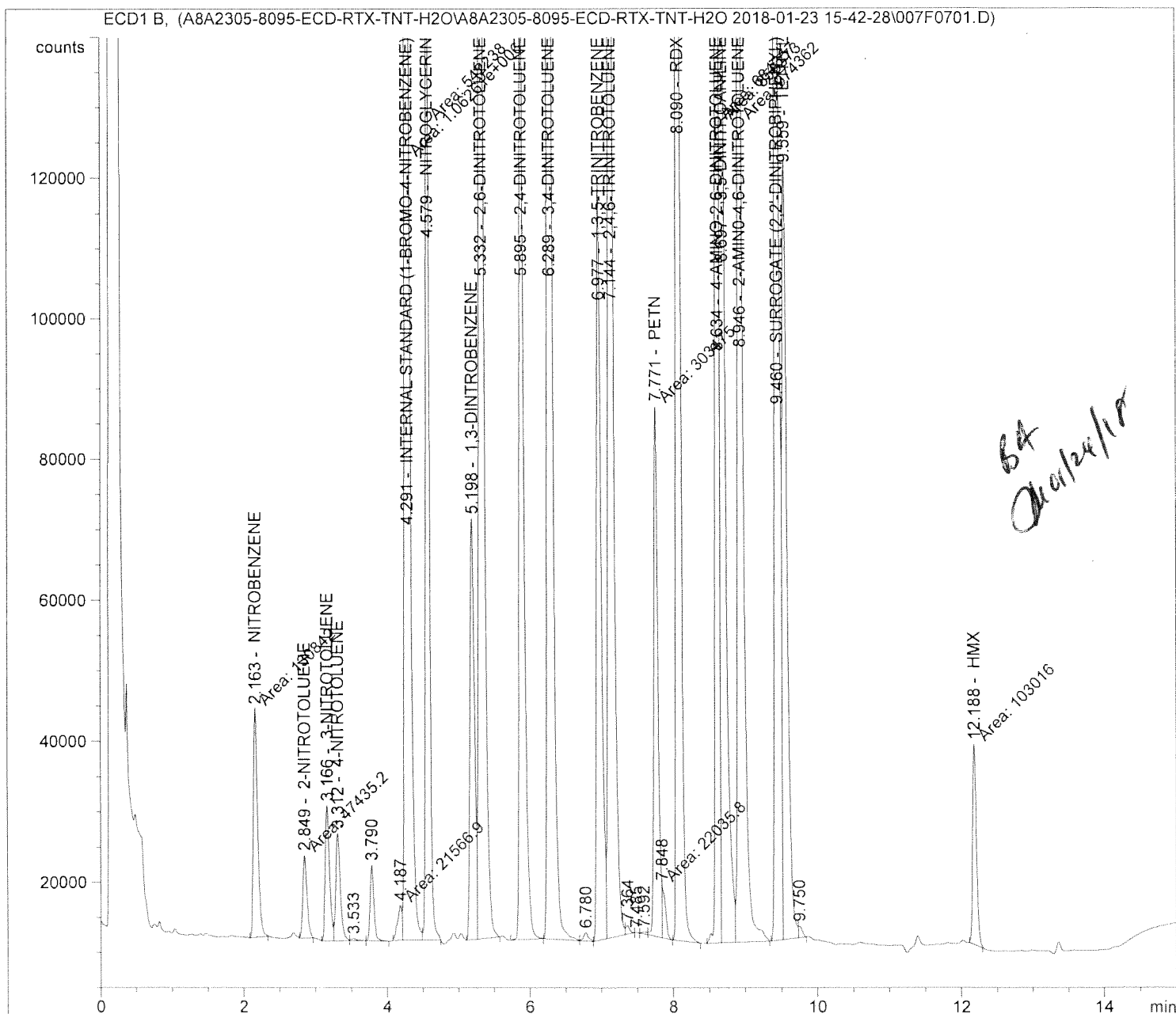
*** End of Report ***

01/24/18

Sample Name: A8A2305-CAL5

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=====
Acq. Operator   : JJK                               Seq. Line :    7
Acq. Instrument : 3336A52146                         Location  : Vial 7
Injection Date  : 1/23/2018 5:53:08 PM                Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CAL L-5 0.10 ug/mL
=====
```



=====

Acq. Operator	: JJK	Seq. Line	: 7
Acq. Instrument	: 3336A52146	Location	: Vial 7
Injection Date	: 1/23/2018 5:53:08 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.

Sample Info : 8095 CAL L-5 0.10 ug/mL

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 1:25:16 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.163	1	MM	1	3.24667e4	6.03566	1.00744e-1		NITROBENZENE
2.849	1	MM	1	1.18044e4	16.70975	1.01408e-1		2-NITROTOLUENE
3.166	1	BV	1	1.92353e4	10.36141	1.02465e-1		3-NITROTOLUENE
3.312	1	VV	1	1.53159e4	13.00088	1.02370e-1		4-NITROTOLUENE
4.291	1	FM +I	1	2.43138e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.579	1	FM	1	1.55948e5	1.26908	1.01748e-1		NITROGLYCERIN
5.198	1	BV	1	5.96335e4	3.31660	1.01681e-1		1,3-DINITROBENZENE
5.332	1	VB	1	2.46293e5	7.73313e-1	9.79186e-2		2,6-DINITROTOLUENE
5.895	1	BB	1	1.38907e5	1.38756	9.90914e-2		2,4-DINITROTOLUENE
6.289	1	BV	1	2.70225e5	7.14930e-1	9.93224e-2		3,4-DINITROTOLUENE
6.977	1	BV	1	1.07285e5	1.86539	1.02889e-1		1,3,5-TRINITROBENZENE
7.144	1	VV	1	2.28287e5	9.68373e-1	1.13653e-1		2,4,6-TRINITROTOLUENE
7.771	1	MF	1	7.52207e4	2.57871	9.97237e-2		PETN
8.090	1	BB	1	2.73544e5	7.13729e-1	1.00373e-1		RDX
8.634	1	MF	1	1.78216e5	1.08862	9.97427e-2		4-AMINO-2,6-DINITROTOLUENE
8.697	1	MF	1	1.94250e5	1.01503	1.01367e-1		3,5-DINITROANILINE
8.946	1	FM	1	2.05673e5	9.48859e-1	1.00331e-1		2-AMINO-4,6-DINITROTOLUENE
9.460	1	BV +	1	2.05935e5	9.64940e-1	1.02162e-1		SURROGATE (2,2'-DINITROBIPHENYL)

```
=====
Acq. Operator   : JJK                               Seq. Line :    7
Acq. Instrument : 3336A52146                         Location  : Vial 7
Injection Date  : 1/23/2018 5:53:08 PM                Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CAL L-5 0.10 ug/mL
=====
```

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
9.559	1	VV	1	1.10402e5	1.66713	9.46247e-2		TETRYL
12.188	1	MM	1	2.84189e4	8.09844	1.18322e-1		HMX

Totals without ISTD(s) : 1.93994

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Q101/24/18

Sample Name: A8A2305-CAL6

=====

Acq. Operator : JJK Seq. Line : 8
Acq. Instrument : 3336A52146 Location : Vial 8
Injection Date : 1/23/2018 6:14:36 PM Inj : 1
Inj Volume : Manually

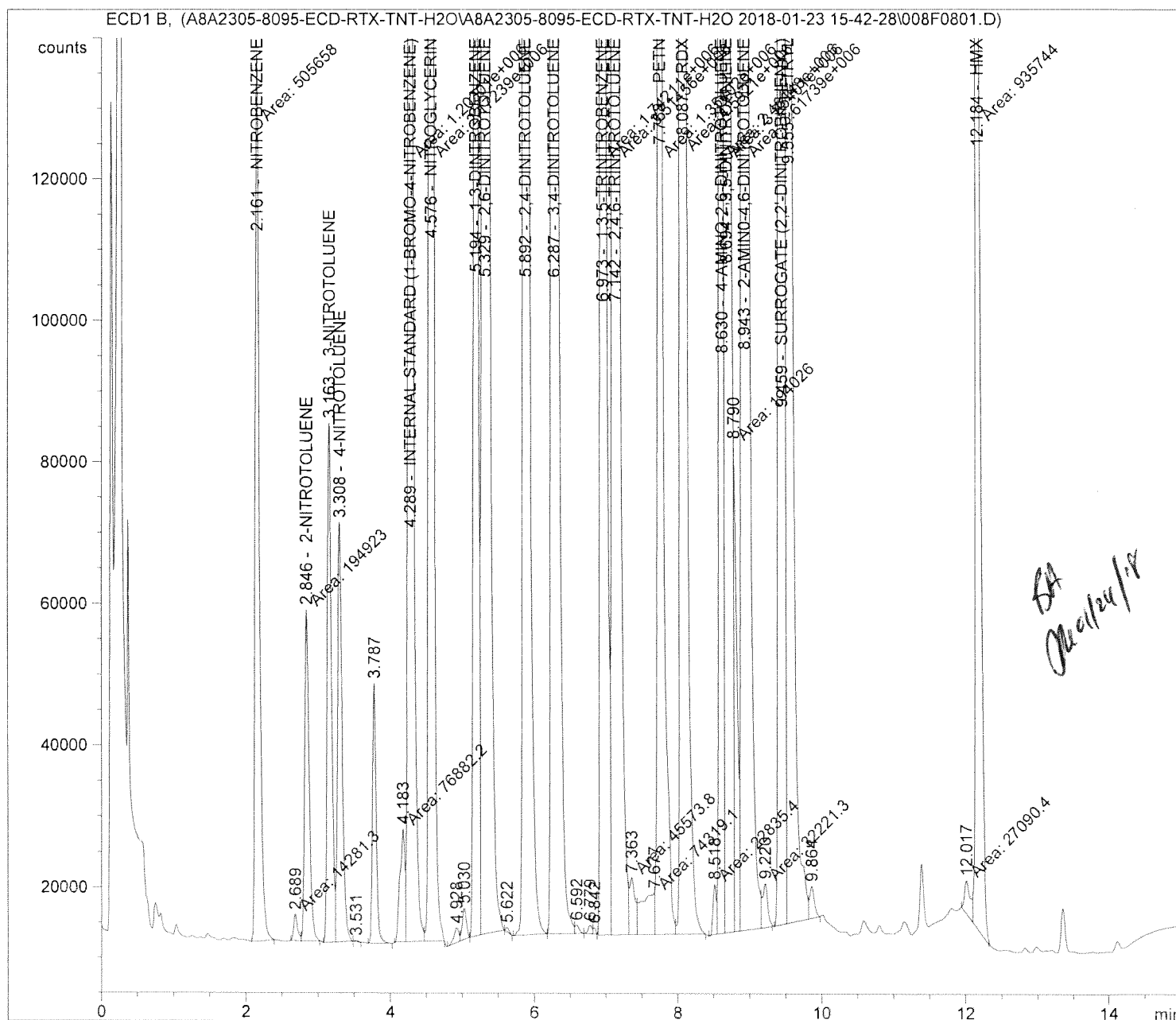
Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5
MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : 8095 CAL L-6 0.40 ug/mL

=====



Sample Name: A8A2305-CAL6

```

=====
Acq. Operator   : JJK                               Seq. Line :    8
Acq. Instrument : 3336A52146                         Location  : Vial 8
Injection Date  : 1/23/2018 6:14:36 PM                Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CAL L-6 0.40 ug/mL
=====

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=====
Internal Standard Report
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```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount   Name
#

```

```

-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.161	1	MM	1	1.25536e5	6.96855	4.01471e-1		NITROBENZENE
2.846	1	FM	1	4.67466e4	17.43136	3.73958e-1		2-NITROTOLUENE
3.163	1	BV	1	7.33384e4	12.06085	4.05930e-1		3-NITROTOLUENE
3.308	1	VB	1	5.90876e4	14.25708	3.86606e-1		4-NITROTOLUENE
4.289	1	FM +I	1	2.72376e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.576	1	FM	1	6.34064e5	1.39026	4.04549e-1		NITROGLYCERIN
5.194	1	BV	1	2.25122e5	3.50329	3.61940e-1		1,3-DINITROBENZENE
5.329	1	VB	1	9.99106e5	9.21977e-1	4.22740e-1		2,6-DINITROTOLUENE
5.892	1	BE	1	5.27546e5	1.67326	4.05104e-1		2,4-DINITROTOLUENE
6.287	1	BV	1	1.07542e6	8.18952e-1	4.04182e-1		3,4-DINITROTOLUENE
6.973	1	MF	1	3.97370e5	2.15413	3.92833e-1		1,3,5-TRINITROBENZENE
7.142	1	MF	1	7.89062e5	1.09223	3.95518e-1		2,4,6-TRINITROTOLUENE
7.768	1	FM	1	3.19644e5	2.74291	4.02365e-1		PETN
8.087	1	FM	1	1.24974e6	6.85076e-1	3.92915e-1		RDX
8.630	1	FM	1	6.99127e5	1.30973	4.20222e-1		4-AMINO-2,6-DINITROTOLUENE
8.694	1	FM	1	7.71491e5	1.24914	4.42268e-1		3,5-DINITROANILINE
8.943	1	MF	1	7.99961e5	1.12313	4.12327e-1		2-AMINO-4,6-DINITROTOLUENE
9.459	1	BV +	1	8.01010e5	1.05070	3.86242e-1		SURROGATE (2,2'-DINITROBIPHENYL)

0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099
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Totals without ISTD(s) : 7.55914

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	0260	0261	0262	0263	0264	0265	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276	0277	0278	0279	0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	0290	0291	0292	0293	0294	0295	0296	0297	0298	0299	0300	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310	0311	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325	0326	0327	0328	0329	0330	0331	0332	0333	0334	0335	0336	0337	0338	0339	0340	0341	0342	0343	0344	0345	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357	0358	0359	0360	0361	0362	0363	0364	0365	0366	0367	0368	0369	0370	0371	0372	0373	0374	0375	0376	0377	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	0399	0400	0401	0402	0403	0404	0405	0406	0407	0408	0409	0410	0411	0412	0413	0414	0415	0416	0417	0418	0419	0420	0421	0422	0423	0424	0425	0426	0427	0428	0429	0430	0431	0432	0433	0434	0435	0436	0437	0438	0439	0440	0441	0442	0443	0444	0445	0446	0447	0448	0449	0450	0451	0452	0453	0454
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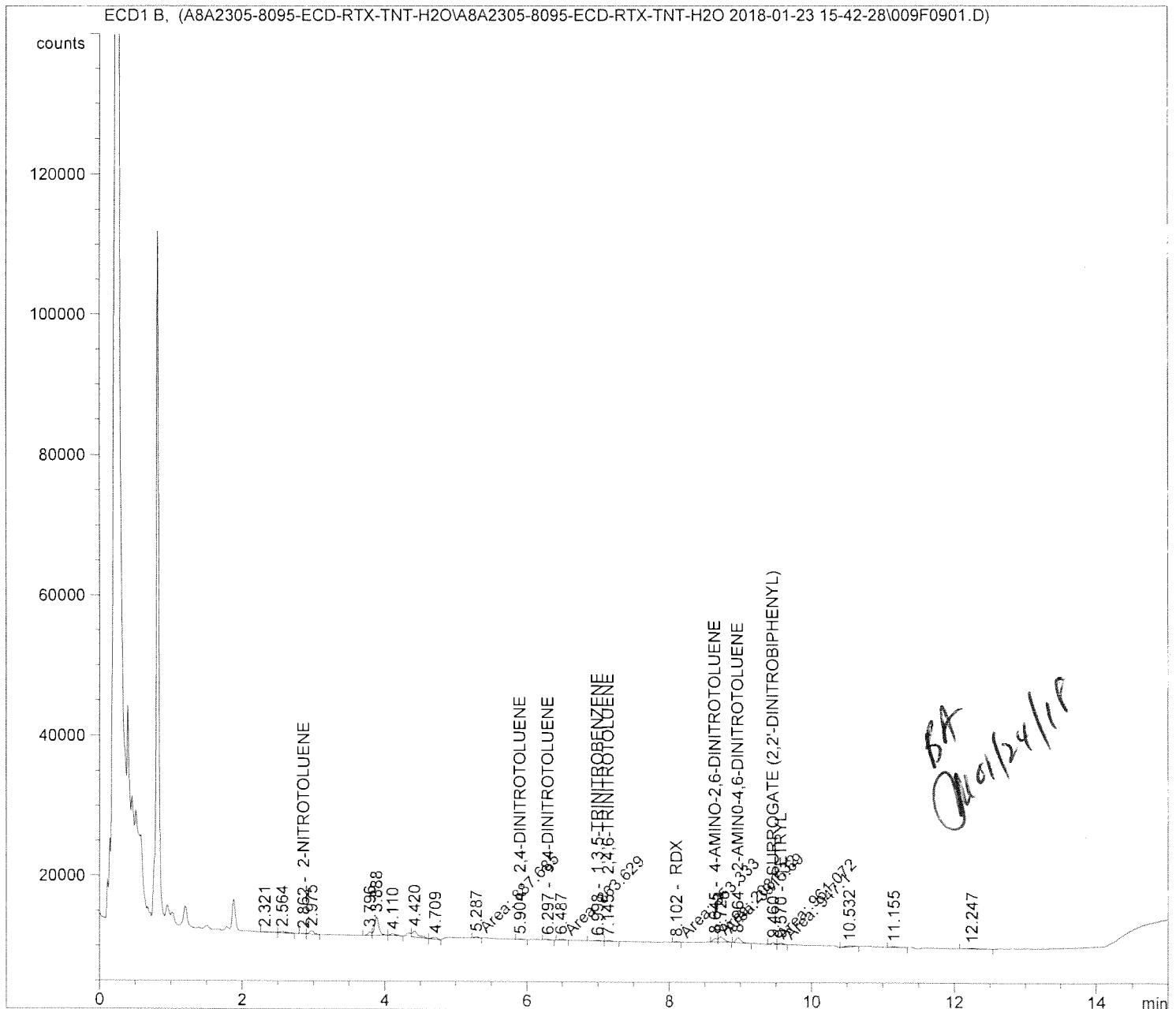
*** End of Report ***

TETRYL - dop from
 currol
 OK to 253A/18
 Mail 24/18

Sample Name: A8A2305-IBL3

```
=====
Acq. Operator   : JJK                               Seq. Line :    9
Acq. Instrument : 3336A52146                         Location  : Vial 9
Injection Date  : 1/23/2018 6:36:10 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
=====
```



Sample Name: A8A2305-IBL3

```
=====
Acq. Operator   : JJK                               Seq. Line :    9
Acq. Instrument : 3336A52146                         Location  : Vial 9
Injection Date  : 1/23/2018 6:36:10 PM                Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
=====
```

Internal Standard Report

```
Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.164	1		1	-	-	-		NITROBENZENE
2.862	1	BV	1	47.44700	0.00000	0.00000		2-NITROTOLUENE
3.166	1		1	-	-	-		3-NITROTOLUENE
3.312	1		1	-	-	-		4-NITROTOLUENE
4.290	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.580	1		1	-	-	-		NITROGLYCERIN
5.199	1		1	-	-	-		1,3-DINITROBENZENE
5.332	1		1	-	-	-		2,6-DINITROTOLUENE
5.904	1	VB	1	75.98269	0.00000	0.00000		2,4-DINITROTOLUENE
6.297	1	BB	1	75.20677	0.00000	0.00000		3,4-DINITROTOLUENE
6.998	1	BV	1	95.69577	0.00000	0.00000		1,3,5-TRINITROBENZENE
7.145	1	VB	1	126.31796	0.00000	0.00000		2,4,6-TRINITROTOLUENE
7.772	1		1	-	-	-		PETN
8.102	1	MM	1	102.23328	0.00000	0.00000		RDX
8.645	1	MF	1	520.68762	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE
8.700	1		1	-	-	-		3,5-DINITROANILINE
8.964	1	BB	1	737.28473	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE
9.460	1	MF +	1	241.91646	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)

Handwritten signature/initials

Sample Name: A8A2305-IBL3

```

=====
Acq. Operator   : JJK                               Seq. Line :    9
Acq. Instrument : 3336A52146                         Location  : Vial 9
Injection Date  : 1/23/2018 6:36:10 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
    
```

```

=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
 [min]      used [counts]  ratio
-----|---|-----|-----|-----|-----|---|-----
  9.570   1  FM      1  216.55580   0.00000   0.00000   TETRYL
 12.192   1           1    -             -           -           HMX
    
```

Totals without ISTD(s) : 0.00000

01/24/18

2 Warnings or Errors :

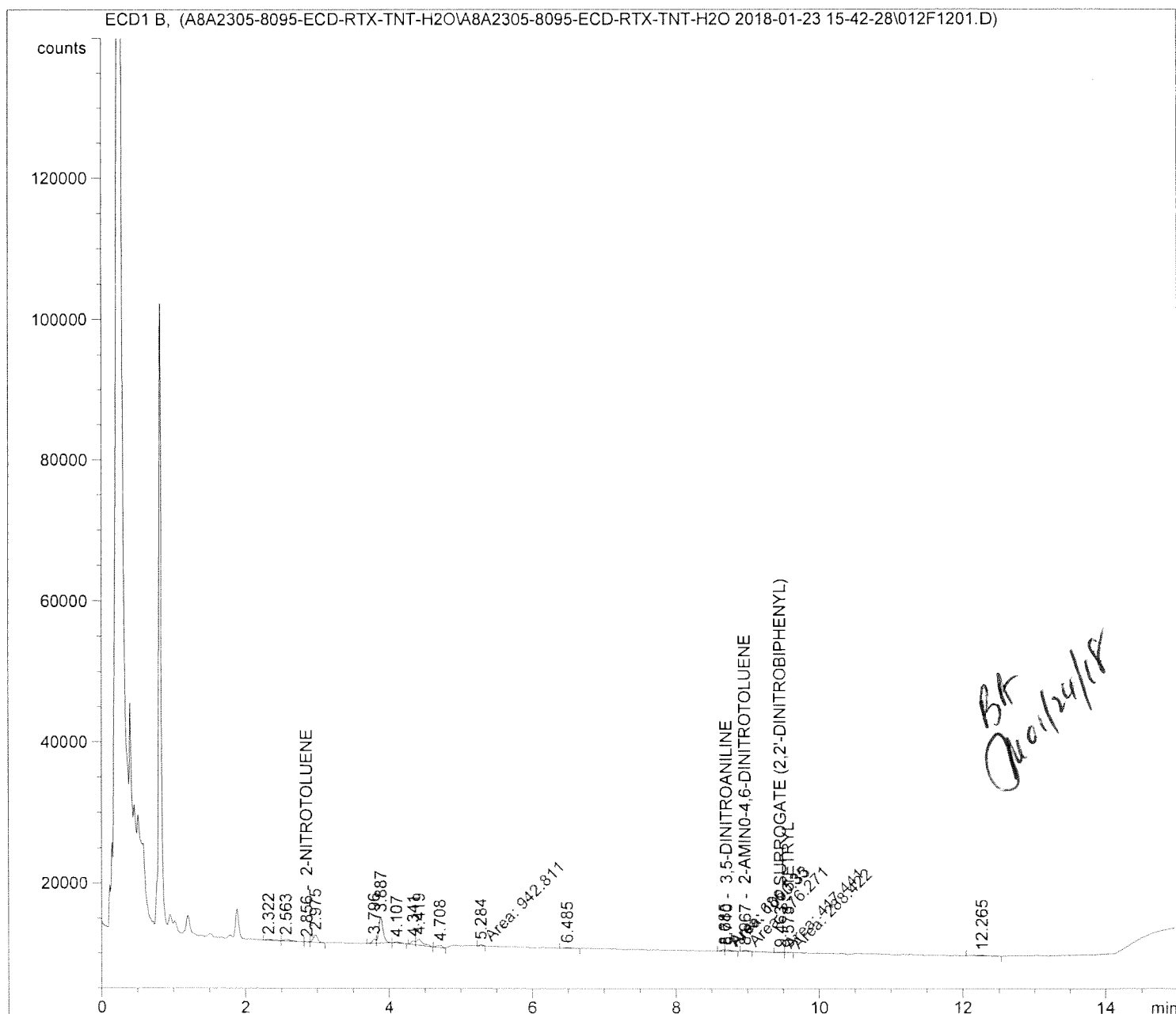
Warning : Calibration warnings (see calibration table listing)
 Warning : Time reference compound(s) not found

*** End of Report ***

Sample Name: A8A2305-IBL4

```
=====
Acq. Operator   : JJK                               Seq. Line :   12
Acq. Instrument : 3336A52146                         Location  : Vial 12
Injection Date  : 1/23/2018 7:40:36 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
=====
```



Sample Name: A8A2305-IBL4

```

=====
Acq. Operator   : JJK                      Seq. Line :   12
Acq. Instrument : 3336A52146              Location  : Vial 12
Injection Date  : 1/23/2018 7:40:36 PM    Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : Instrument Blank
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

----|-----|-----
1   1.25000e-1   INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.165	1		1	-	-	-		NITROBENZENE
2.856	1	VV	1	65.19133	0.00000	0.00000		2-NITROTOLUENE
3.167	1		1	-	-	-		3-NITROTOLUENE
3.313	1		1	-	-	-		4-NITROTOLUENE
4.290	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.582	1		1	-	-	-		NITROGLYCERIN
5.201	1		1	-	-	-		1,3-DINITROBENZENE
5.334	1		1	-	-	-		2,6-DINITROTOLUENE
5.898	1		1	-	-	-		2,4-DINITROTOLUENE
6.293	1		1	-	-	-		3,4-DINITROTOLUENE
6.981	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.147	1		1	-	-	-		2,4,6-TRINITROTOLUENE
7.775	1		1	-	-	-		PETN
8.095	1		1	-	-	-		RDX
8.638	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE
8.710	1	FM	1	198.31557	0.00000	0.00000		3,5-DINITROANILINE
8.967	1	MM	1	192.83549	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE
9.463	1	MF +	1	84.44147	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)

Sample Name: A8A2305-IBL4

=====

Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3336A52146	Location	: Vial 12
Injection Date	: 1/23/2018 7:40:36 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : Instrument Blank

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
9.573	1	FM	1	61.20022	0.00000	0.00000		TETRYL
12.196	1		1	-	-	-		HMX

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

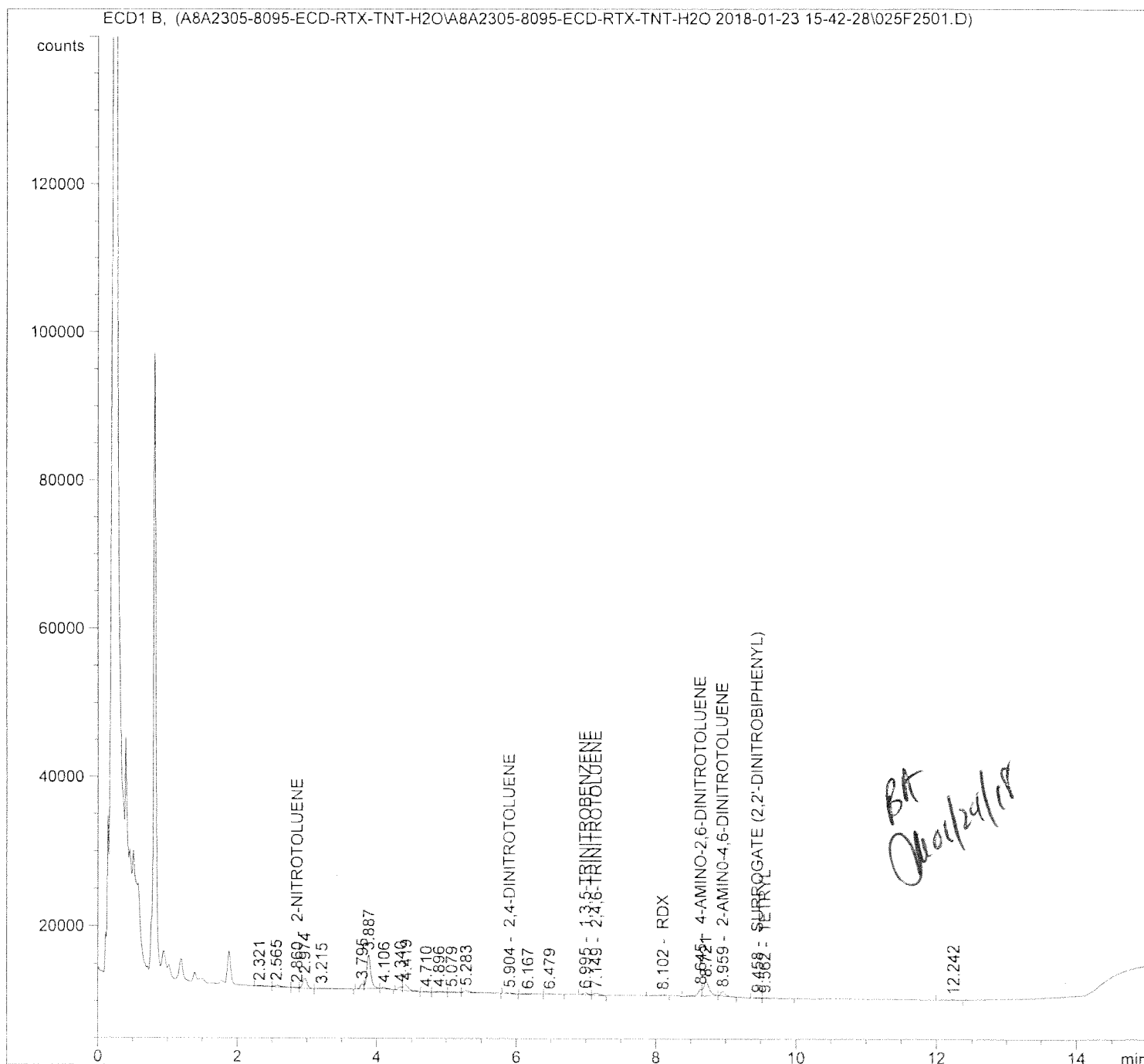
=====

*** End of Report ***

Q 01/24/18

Sample Name: A8A2305-IBL5

```
=====
Acq. Operator   : JJK                               Seq. Line :   25
Acq. Instrument : 3336A52146                         Location  : Vial 25
Injection Date  : 1/24/2018 12:19:58 AM              Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.
=====
```



Sample Name: A8A2305-IBL5

```

=====
Acq. Operator   : JJK                      Seq. Line :   25
Acq. Instrument : 3336A52146                Location  : Vial 25
Injection Date  : 1/24/2018 12:19:58 AM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                 (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                 MICRON FILM, (S/N 1153047/P).
                 INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount   Name
#

```

```

----|-----|-----
1   1.25000e-1   INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.164	1		1	-	-	-		NITROBENZENE
2.860	1	VV	1	96.51514	0.00000	0.00000		2-NITROTOLUENE
3.166	1		1	-	-	-		3-NITROTOLUENE
3.311	1		1	-	-	-		4-NITROTOLUENE
4.290	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.580	1		1	-	-	-		NITROGLYCERIN
5.198	1		1	-	-	-		1,3-DINITROBENZENE
5.331	1		1	-	-	-		2,6-DINITROTOLUENE
5.904	1	BB	1	148.47266	0.00000	0.00000		2,4-DINITROTOLUENE
6.290	1		1	-	-	-		3,4-DINITROTOLUENE
6.995	1	BV	1	253.42761	0.00000	0.00000		1,3,5-TRINITROBENZENE
7.149	1	VB	1	316.99692	0.00000	0.00000		2,4,6-TRINITROTOLUENE
7.770	1		1	-	-	-		PETN
8.102	1	BB	1	178.31480	0.00000	0.00000		RDX
8.645	1	BV	1	917.64655	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE
8.698	1		1	-	-	-		3,5-DINITROANILINE
8.959	1	BB	1	569.91711	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE
9.458	1	BV +	1	140.82455	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)
9.562	1	VB	1	85.38026	0.00000	0.00000		TETRYL
12.190	1		1	-	-	-		HMX

=====

Acq. Operator	: JJK	Seq. Line	: 25
Acq. Instrument	: 3336A52146	Location	: Vial 25
Injection Date	: 1/24/2018 12:19:58 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5
MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

=====

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

=====

*** End of Report ***

OK 2/24/18

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 11/9/2017 at 1:20:54 PM

Method Information

Method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified: 11/9/2017 at 1:20:54 PM

METHOD 8095 BY ECD, USING A RESTEK RTX-440 6 M BY 0.53 MM ID BY 0.5
UM FILM. (S/N 1500857) USING 4 MM GOOSNECK LINER WITH A GOLD SEAL.
2 UL INJECTION.

Method Audit Trail

Operator : RWJ
Date : 4/5/2016 5:16:24 PM
Change Info: This method was created at 4/5/2016 5:16:24 PM and based on
method C:\Chem32\2\METHODS\8095-ECD-RTX-440PLAY.M

Operator : RWJ
Date : 4/5/2016 5:16:38 PM
Change Info: Method saved. User comment: "CREATE AQ METHOD RWJ"

Operator : RWJ
Date : 10/26/2016 11:57:18 AM
Change Info: Method saved. User comment: "change max to 320 rwj"

Operator : RWJ
Date : 10/11/2017 6:12:28 PM
Change Info: Method saved. User comment: "CHANGE TO BACK INJ RWJ"

Operator : JJK
Date : 11/7/2017 1:04:36 PM
Change Info: Method saved. User comment: "CHANGED PURGE OFF FROM 15 TO 14
MINUTES 11/7/17 JJK"

Operator : JJK
Date : 11/9/2017 1:20:54 PM
Change Info: Method saved. User comment: "changed column serial number 11/9/17
jjk"

*Acquisition
method*

OK 01/31/18

Run Time Checklist

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: off

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 11/9/2017 at 1:20:54 PM
Save Method with Data: off

Injection Source and Location

Injection Source: Manual

Injection Location: Back

OVEN\DET

Runtime (min): 15.4

Zone Temperatures:

	State	Setpoint
Inl. A	ON	210 C.
Inl. B	OFF	50 C.
Det. A	ON	250 C.
Det. B	ON	50 C.
Aux.	OFF	50 C.

Oven Zone:

Oven max	320 C.
Equib Time	1.50 Min.
Oven State	ON
Cryo State	OFF
Ambient	25 C.
Cryo Blast	OFF

Oven Program:

	Setpoint		
Initial Temp.:	60 C.		
Initial Time:	1.00 Min.		
Level	Rate (C/min.)	Final Temp.(C)	Final Time (min)
1	16.0	275	1.00

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	Off	0.50	14.00
B (Valve 4)	Off	0.50	14.00

A - Splitless Injection: No
B - Splitless Injection: No

Valves/Relays Information

Initial Setpoints:

5890 Valves:

Valve 1:	Off
Valve 2:	Off
Valve 3 (Purge A):	Off
Valve 4 (Purge B):	Off

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 11/9/2017 at 1:20:54 PM

Detector Information

Detector A:

Type	ECD
State	ON

Signal Information

Save Data: Signal 1

Signal 1:

Signal	Det. A
Data rate	5.000 Hz.
Peakwidth	0.053 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Signal 2:

Signal	Testplot
Data rate	5.000 Hz.
Peakwidth	0.053 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	0.000
Front Peak Skim Height Ratio	0.000
Skim Valley Ratio	20.000
Baseline Correction	Advanced
Peak to Valley Ratio	500.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 11/9/2017 at 1:20:54 PM
Apply Manual Integration Events: No

=====

Sample related custom fields

=====

Custom Field	Type	Mand.	Default Value

None defined			

=====

Compound related custom fields

=====

Custom Field	Type	Mand.	Default Value

None defined			

method: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Modified on: 1/30/2018 at 8:35:45 AM

Method Information

Method: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Modified: 1/30/2018 at 8:35:45 AM

Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5
MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Method Audit Trail

Operator : JJK
Date : 1/30/2018 8:02:40 AM
Change Info: This method was created at 1/30/2018 8:02:40 AM and based on
method C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Operator : JJK
Date : 1/30/2018 8:02:54 AM
Change Info: Method saved. User comment: "CREATED 01/30/18 JJK"

Operator : JJK
Date : 1/30/2018 8:35:45 AM
Change Info: Method saved. User comment: "UPDATED CAL TABLE FOR TETRYL ONLY
01/30/18 JJK"

*Processing
method
OK 01/31/18*

Run Time Checklist

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: off

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

Save Method with Data: off

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	0.000
Front Peak Skim Height Ratio	0.000
Skim Valley Ratio	20.000
Baseline Correction	Advanced
Peak to Valley Ratio	500.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_ECD1B"

Event	Value	Time
Initial Slope Sensitivity	300.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	5.000	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	1.481
Integration	OFF	18.490

Detector Default Integration Event Table "Event_GC"

Event	Value	Time
Initial Slope Sensitivity	300.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	100.000	Initial
Initial Height Reject	25.000	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	2.093
Integration	OFF	18.140

Signal Specific Integration Event Table "Event_GC1A"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	0.100	Initial
Initial Height Reject	0.100	Initial
Initial Shoulders	OFF	Initial
Integration	OFF	0.000
Integration	ON	1.661
Integration	OFF	18.250

Signal Specific Integration Event Table "Event_ECD1A"

Event	Value	Time
Initial Slope Sensitivity	400.000	Initial
Initial Peak Width	0.070	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	DROP	Initial
Integration	OFF	0.000
Integration	ON	4.344
Integration	OFF	5.100
Integration	ON	9.735
Integration	OFF	10.733

Apply Manual Integration Events: No

=====
Sample related custom fields
=====

Custom Field	Type	Mand.	Default Value
--------------	------	-------	---------------

None defined

=====
Compound related custom fields
=====

Custom Field	Type	Mand.	Default Value
--------------	------	-------	---------------

None defined

=====
Calibration Table
=====

Calib. Data Modified : 1/30/2018 8:20:33 AM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.040 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Power
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Sample ISTD Information:

ISTD ISTD Amount Name

----|-----|-----
1 1.25000e-1 INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime	Lvl	Amount	Height	Amt/Height	Ref	Grp	Name
[min]	Sig						
4.571	1	1 1.25000e-1	1.09909e5	1.13730e-6	+I1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
		2 1.25000e-1	1.17601e5	1.06291e-6			
		3 1.25000e-1	1.12408e5	1.11202e-6			
		4 1.25000e-1	1.15700e5	1.08038e-6			
		5 1.25000e-1	1.22719e5	1.01859e-6			
10.381	1	1 1.00000e-3	141.90250	7.04709e-6	1		TETRYL [2C]
		2 4.00000e-3	560.54541	7.13591e-6			
		3 1.00000e-2	2162.87744	4.62347e-6			
		4 4.00000e-2	1.62107e4	2.46751e-6			
		5 1.00000e-1	3.76704e4	2.65460e-6			

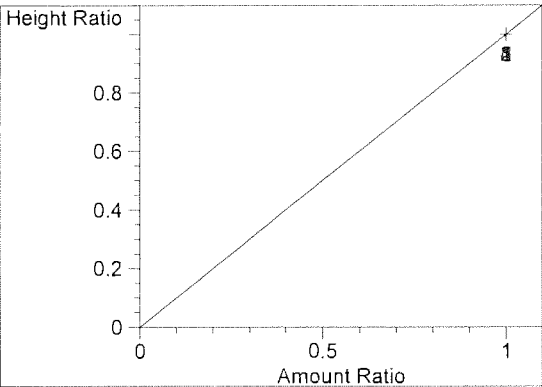
1 Warnings or Errors :

Warning : Curve requires more calibration points., (INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

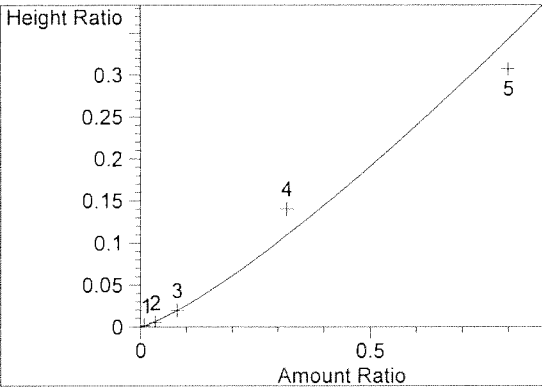
=====
Peak Sum Table
=====

No Entries in table

Calibration Curves



INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C] at exp. RT: 10.381
ECD1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount
y: Height

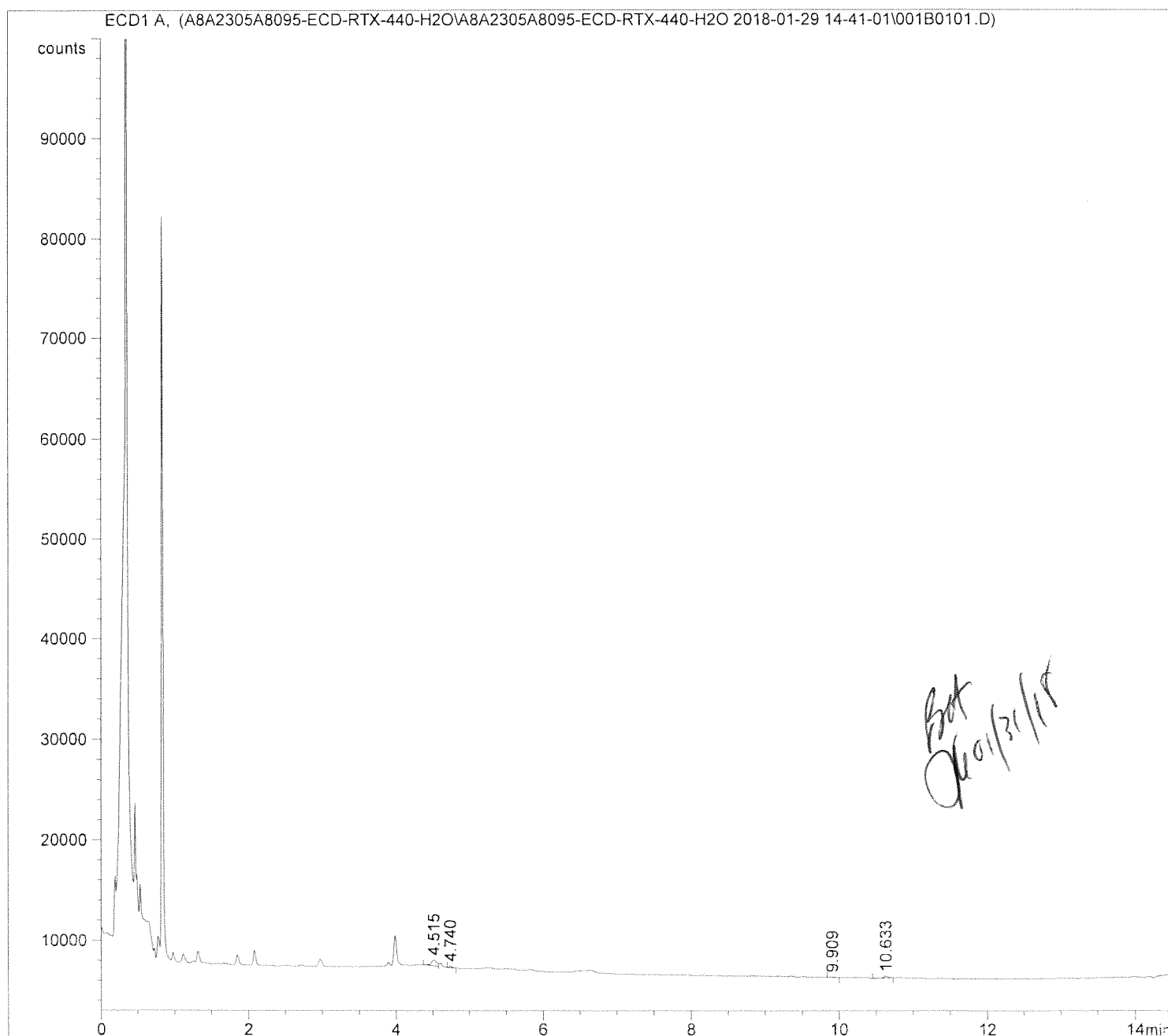


TETRYL [2C] at exp. RT: 10.381
ECD1 A,
Correlation: 0.99000
Residual Std. Dev.: 0.02697
Formula: $y = b * x^m$
m: 1.24368
b: 4.51672e-1
x: Amount
y: Height

Sample Name: A8A2305-IBL1

```
=====
Acq. Operator   : JJK                      Seq. Line :    1
Acq. Instrument : 3337G12416              Location  : Vial 1
Injection Date  : 1/29/2018 2:42:50 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.
```

Sample Info : Instrument Blank



Sample Name: A8A2305-1BL1

```

=====
Acq. Operator   : JJK                               Seq. Line :    1
Acq. Instrument : 3337G12416                         Location  : Vial 1
Injection Date  : 1/29/2018 2:42:50 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : Instrument Blank

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.571	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.381	1		1	-	-	-		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

Handwritten signature
01/31/18

=====

Acq. Operator	: JJK	Seq. Line	: 1
Acq. Instrument	: 3337G12416	Location	: Vial 1
Injection Date	: 1/29/2018 2:42:50 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Height Percent Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: ECD1 A,

Peak #	RetTime [min]	Sig	Type	Height [counts]	Height %	Name
1	4.571	1	+I	0.00000	0.00000	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
2	10.381	1		0.00000	0.00000	TETRYL [2C]

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

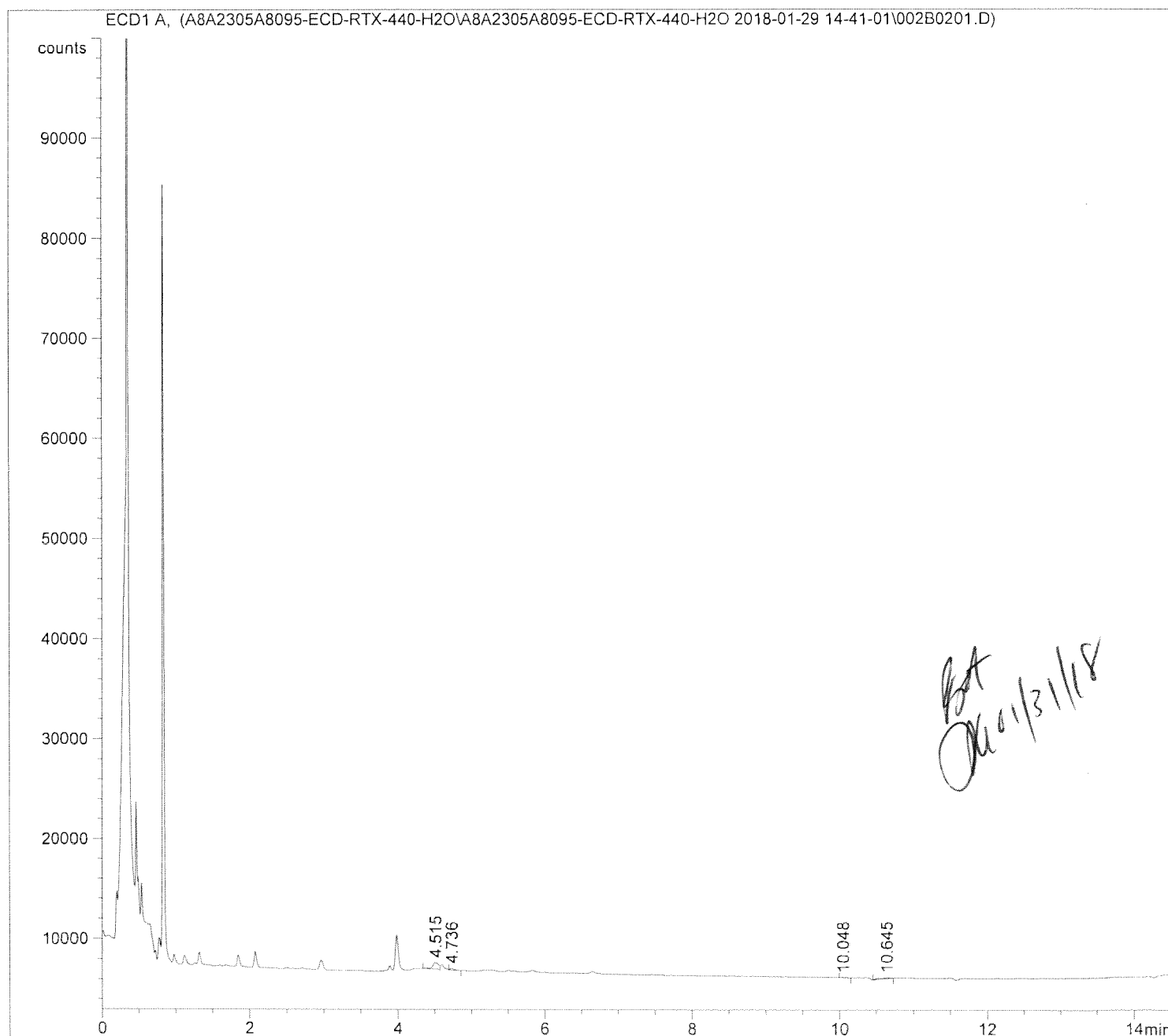
=====

*** End of Report ***

Sample Name: A8A2305-IBL2

```
=====
Acq. Operator   : JJK                      Seq. Line :    2
Acq. Instrument : 3337G12416              Location  : Vial 2
Injection Date  : 1/29/2018 3:04:31 PM      Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.
=====
```

Sample Info : Instrument Blank



=====

Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3337G12416	Location	: Vial 2
Injection Date	: 1/29/2018 3:04:31 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
4.571	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.381	1		1	-	-	-		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

OK 01/31/18

Sample Name: A8A2305-IBL2

```
=====
Acq. Operator   : JJK                               Seq. Line :    2
Acq. Instrument : 3337G12416                         Location  : Vial 2
Injection Date  : 1/29/2018 3:04:31 PM                 Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
```

Sample Info : Instrument Blank

=====

=====

Height Percent Report

=====

```
Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Sig	Type	Height [counts]	Height %	Name
1	4.571	1	+I	0.00000	0.00000	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
2	10.381	1		0.00000	0.00000	TETRYL [2C]

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

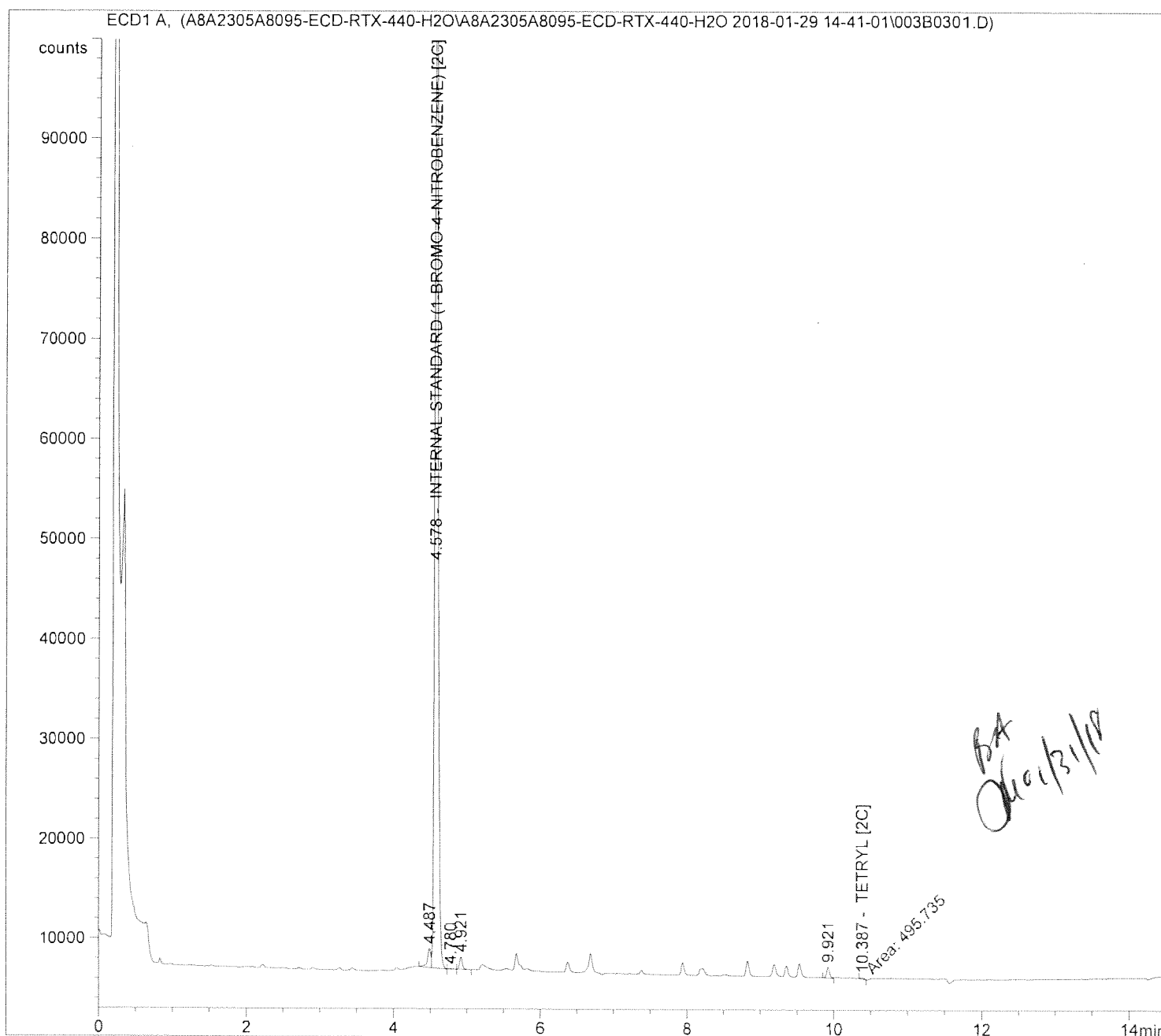
=====

*** End of Report ***

Sample Name: A8A2305-CAL1

```
=====
Acq. Operator   : JJK                               Seq. Line :    3
Acq. Instrument : 3337G12416                         Location  : Vial 3
Injection Date  : 1/29/2018 3:26:17 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CAL L-1 0.001 ug/mL
=====
```



Sample Name: A8A2305-CAL1

```

=====
Acq. Operator   : JJK                               Seq. Line :    3
Acq. Instrument : 3337G12416                         Location  : Vial 3
Injection Date  : 1/29/2018 3:26:17 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CAL L-1 0.001 ug/mL
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.578	1	VB +I	1	1.09909e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.387	1	MM	1	141.90250	6.97605	1.12584e-3		TETRYL [2C]

Totals without ISTD(s) : 1.12584e-3

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

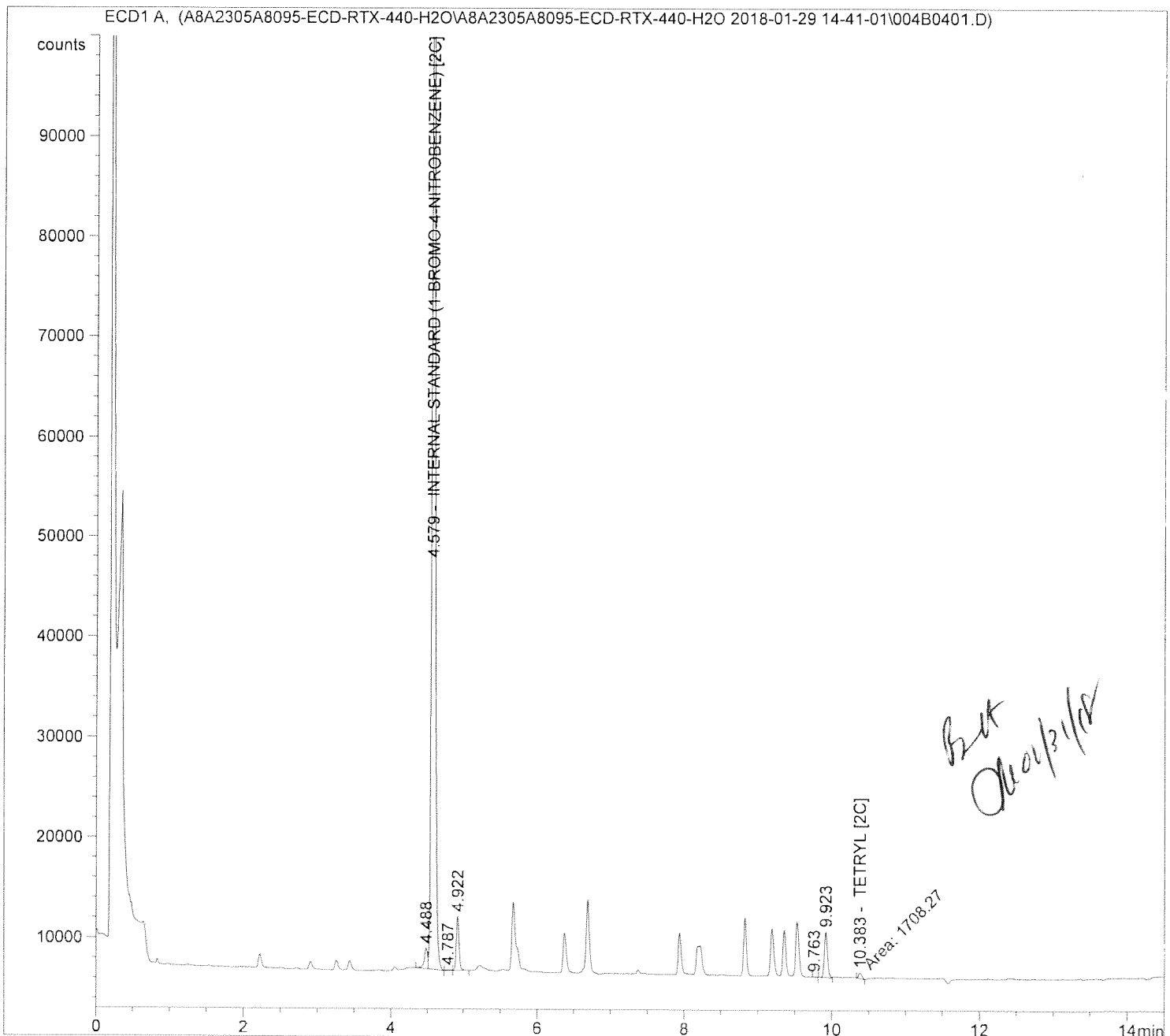
=====
*** End of Report ***
=====

```

=====

Acq. Operator	: JJK	Seq. Line	: 4
Acq. Instrument	: 3337G12416	Location	: Vial 4
Injection Date	: 1/29/2018 3:48:02 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M		
Last changed	: 1/30/2018 8:35:45 AM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		
Sample Info	: 8095 CAL L-2 0.004 ug/mL		

=====



Sample Name: A8A2305-CAL2

```
=====
Acq. Operator   : JJK                               Seq. Line :    4
Acq. Instrument : 3337G12416                         Location  : Vial 4
Injection Date  : 1/29/2018 3:48:02 PM                Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
```

Sample Info : 8095 CAL L-2 0.004 ug/mL

Internal Standard Report

```
Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.579	1	VB +I	1	1.17601e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.383	1	MM	1	560.54541	5.40091	3.21792e-3		TETRYL [2C]

Totals without ISTD(s) : 3.21792e-3

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

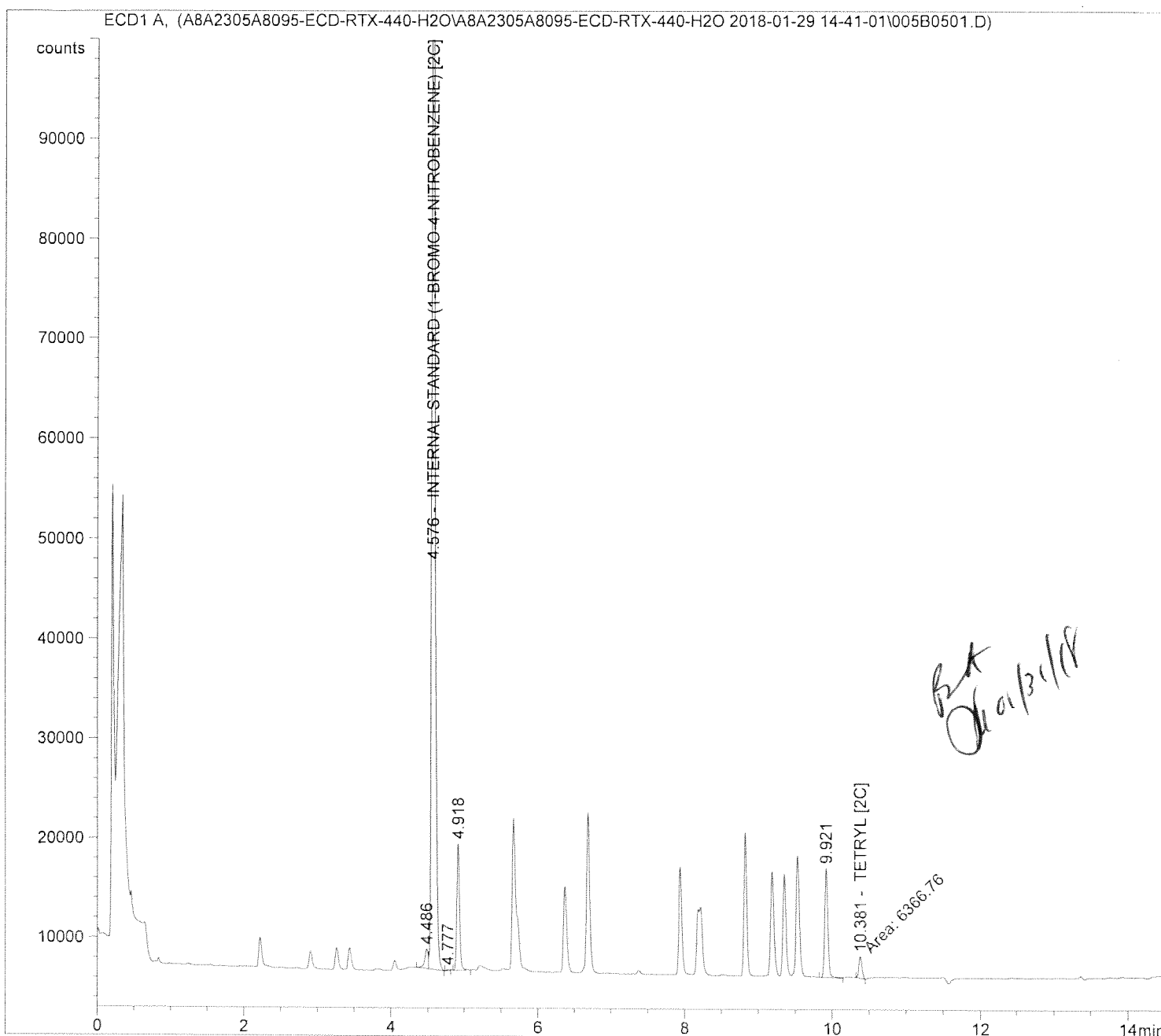
*** End of Report ***

Handwritten signature
01/31/18

Sample Name: A8A2305-CAL3

```
=====
Acq. Operator   : JJK                               Seq. Line :    5
Acq. Instrument : 3337G12416                         Location  : Vial 5
Injection Date  : 1/29/2018 4:09:46 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : 8095 CAL L-3 0.01 ug/mL



Sample Name: A8A2305-CAL3

```

=====
Acq. Operator   : JJK                      Seq. Line :    5
Acq. Instrument : 3337G12416                Location  : Vial 5
Injection Date  : 1/29/2018 4:09:46 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

```

Sample Info : 8095 CAL L-3 0.01 ug/mL

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.576	1	VB +I	1	1.12408e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.381	1	MM	1	2162.87744	4.10888	9.88254e-3		TETRYL [2C]

Totals without ISTD(s) : 9.88254e-3

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

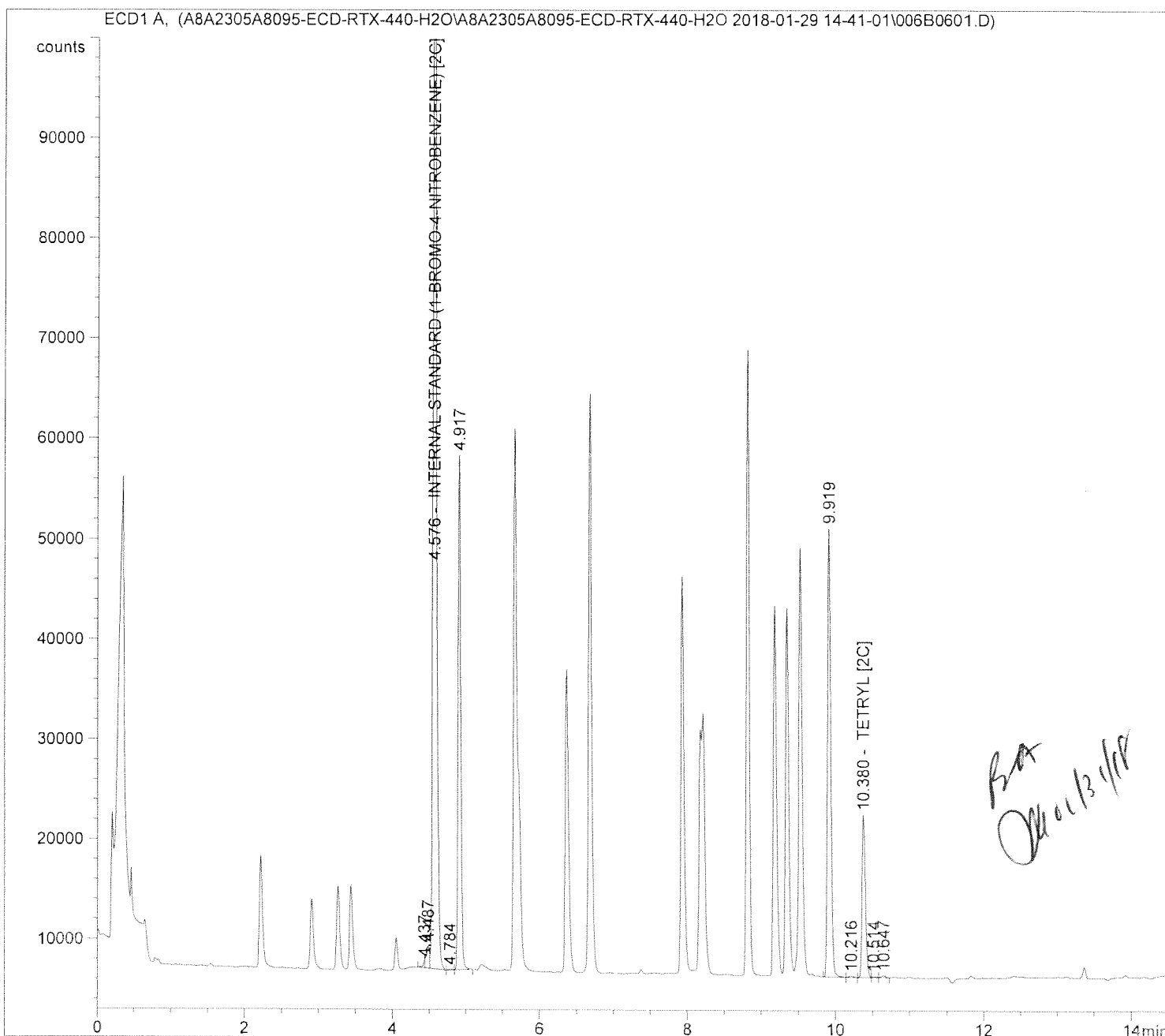
=====
*** End of Report ***

```

Sample Name: A8A2305-CAL4

```
=====
Acq. Operator   : JJK                               Seq. Line :    6
Acq. Instrument : 3337G12416                         Location  : Vial 6
Injection Date  : 1/29/2018 4:31:33 PM                 Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : 8095 CAL L-4 0.04 ug/mL



Sample Name: A8A2305-CAL4

```
=====
Acq. Operator   : JJK                               Seq. Line :    6
Acq. Instrument : 3337G12416                         Location  : Vial 6
Injection Date  : 1/29/2018 4:31:33 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
```

Sample Info : 8095 CAL L-4 0.04 ug/mL

```
=====
Internal Standard Report
=====
```

```
Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.576	1	VB +I	1	1.15700e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.380	1	BV	1	1.62107e4	2.78472	4.87707e-2		TETRYL [2C]

Totals without ISTD(s) : 4.87707e-2

1 Warnings or Errors :

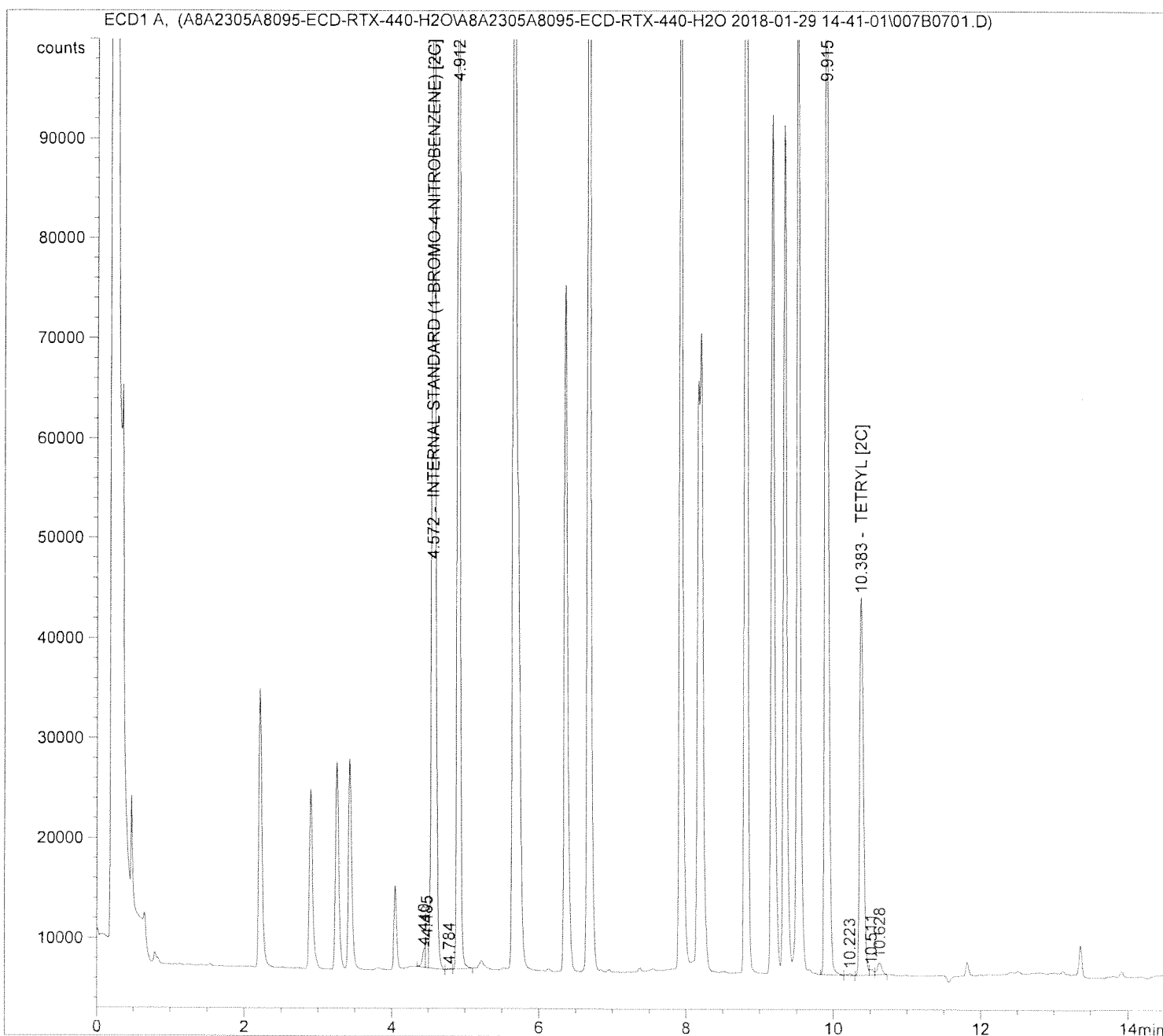
Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
```

Sample Name: A8A2305-CAL5

```
=====
Acq. Operator   : JJK                               Seq. Line :    7
Acq. Instrument : 3337G12416                         Location  : Vial 7
Injection Date  : 1/29/2018 4:53:13 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : 8095 CAL L-5 0.10 ug/mL



Sample Name: A8A2305-CAL5

```

=====
Acq. Operator   : JJK                               Seq. Line :    7
Acq. Instrument : 3337G12416                         Location  : Vial 7
Injection Date  : 1/29/2018 4:53:13 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CAL L-5 0.10 ug/mL
    
```

Internal Standard Report

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
  1   1.25000e-1   INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
    
```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.572	1	VB +I	1	1.22719e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.383	1	BV	1	3.76704e4	2.38804	9.16307e-2		TETRYL [2C]

Totals without ISTD(s) : 9.16307e-2

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

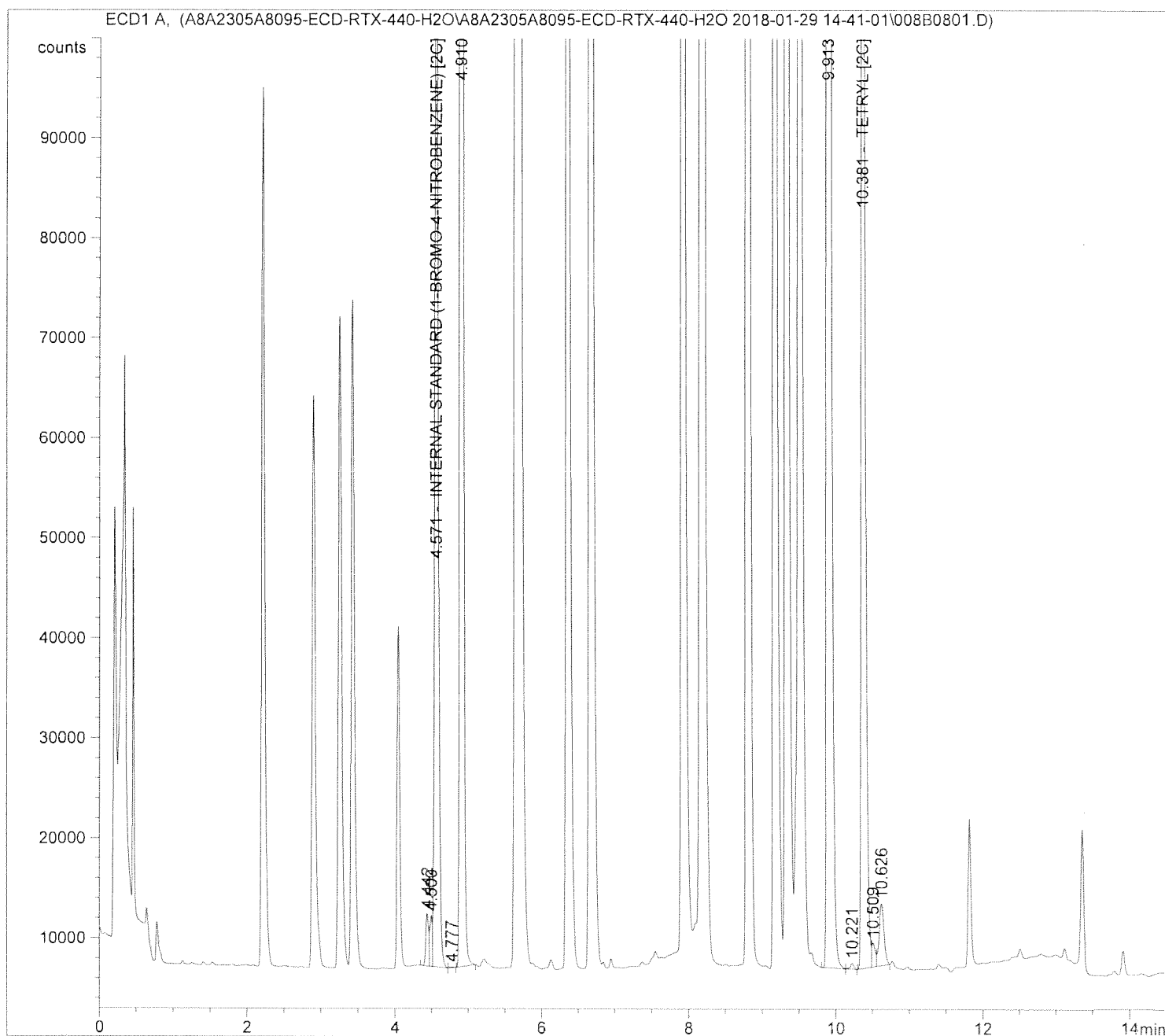
OK 01/31/18

=====

Acq. Operator	: JJK	Seq. Line	: 8
Acq. Instrument	: 3337G12416	Location	: Vial 8
Injection Date	: 1/29/2018 5:14:59 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M		
Last changed	: 1/30/2018 8:35:45 AM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		

Sample Info : 8095 CAL L-6 0.40 ug/mL

=====



Sample Name: A8A2305-CAL6

```

=====
Acq. Operator   : JJK                               Seq. Line :    8
Acq. Instrument : 3337G12416                         Location  : Vial 8
Injection Date  : 1/29/2018 5:14:59 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : 8095 CAL L-6 0.40 ug/mL

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.571	1	VB +I	1	1.18379e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.381	1	BV	1	1.45369e5	1.81999	2.79366e-1		TETRYL [2C]

Totals without ISTD(s) : 2.79366e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

=====
*** End of Report ***

```

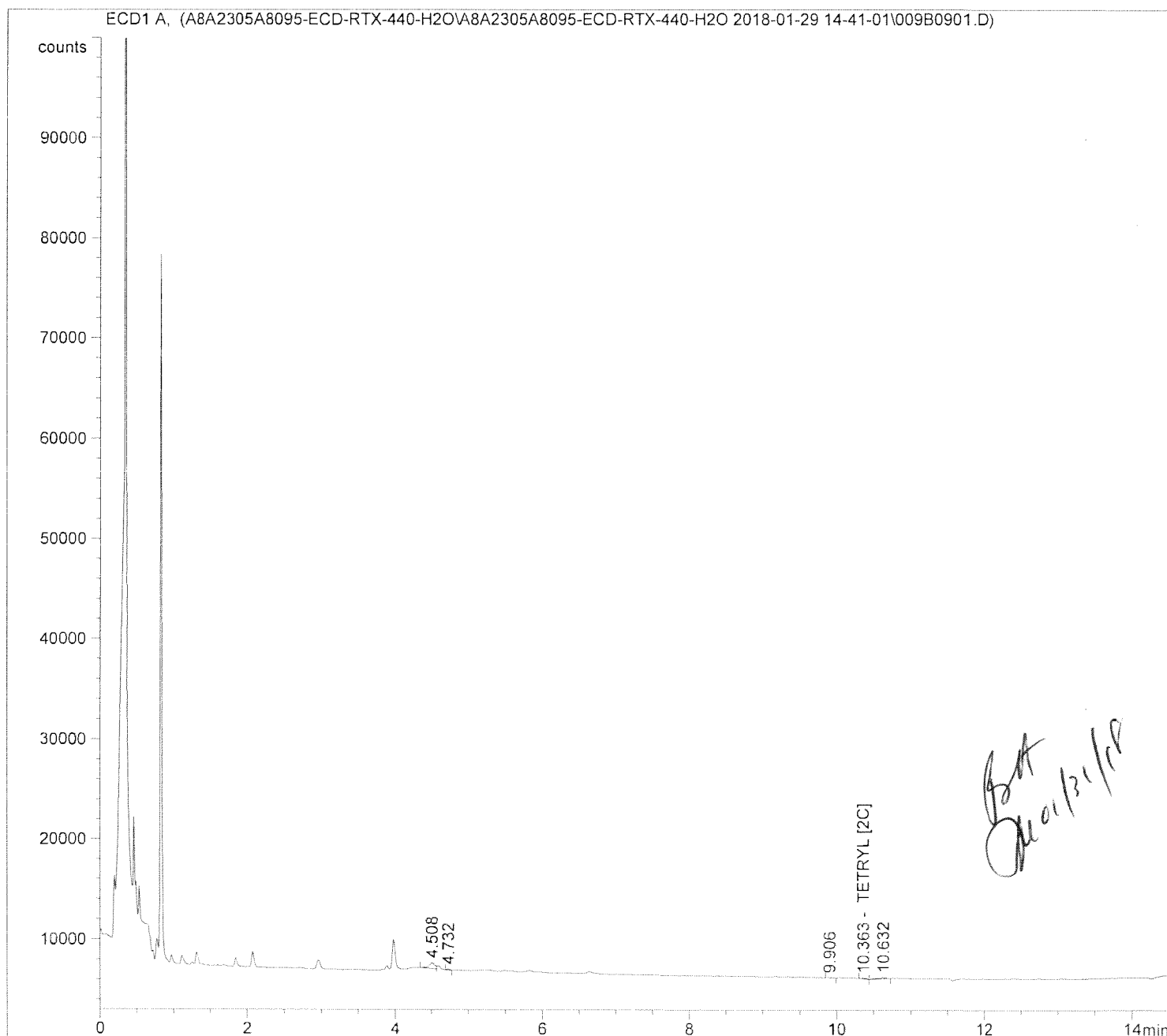
NOT IN
ICAL
01/31/18

Sample Name: A8A2305-IBL3

=====

Acq. Operator	: JJK	Seq. Line	: 9
Acq. Instrument	: 3337G12416	Location	: Vial 9
Injection Date	: 1/29/2018 5:36:42 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M		
Last changed	: 1/30/2018 8:35:45 AM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		

Sample Info : Instrument Blank



=====

Acq. Operator	: JJK	Seq. Line	: 9
Acq. Instrument	: 3337G12416	Location	: Vial 9
Injection Date	: 1/29/2018 5:36:42 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.571	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.363	1	BB	1	83.30922	0.00000	0.00000		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

=====

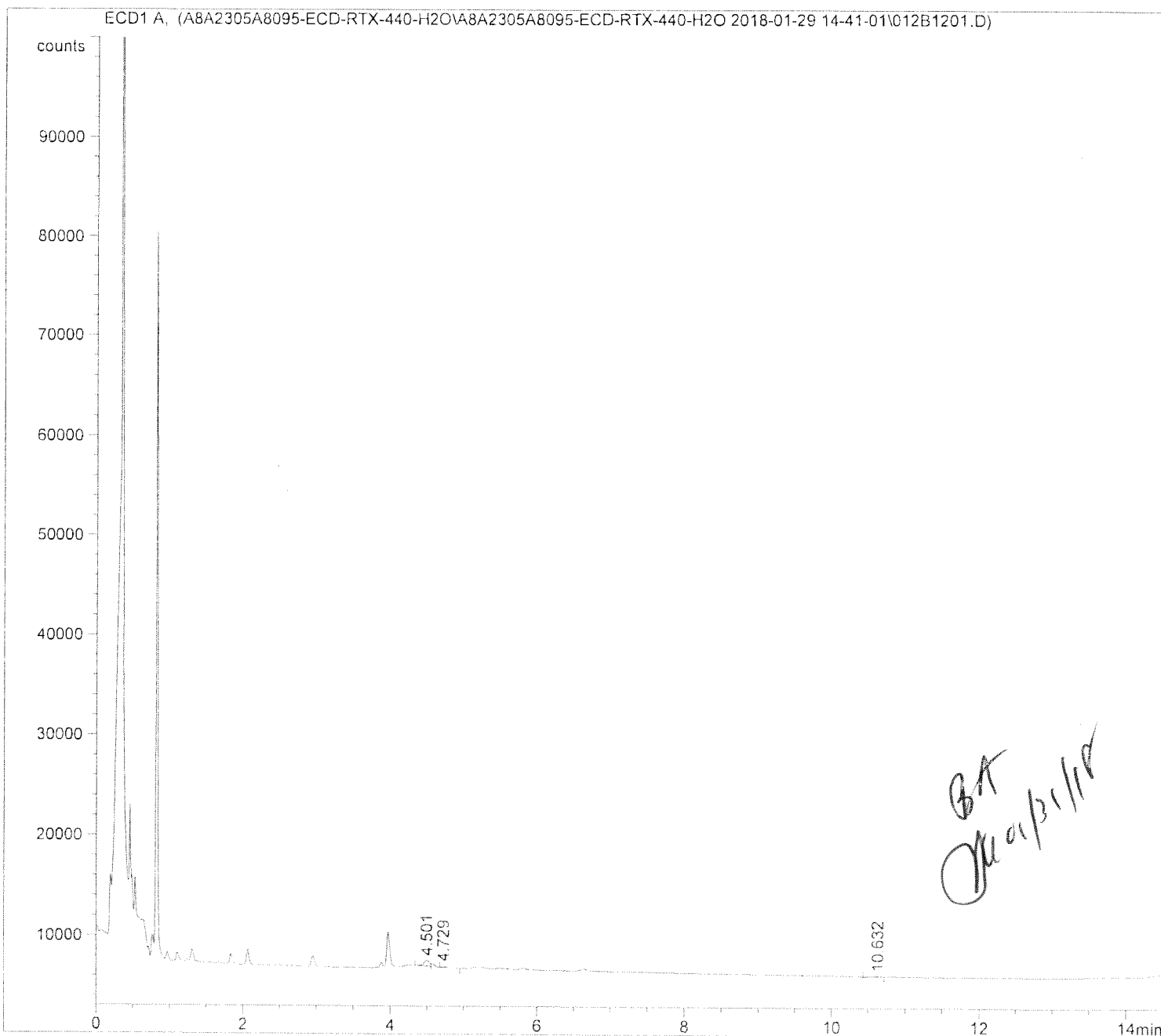
*** End of Report ***

Sample Name: A8A2305-IBL4

=====

Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3337G12416	Location	: Vial 12
Injection Date	: 1/29/2018 6:42:07 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M		
Last changed	: 1/30/2018 8:35:45 AM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.		
	INJECTION 2 UL.		

Sample Info : Instrument Blank



=====

Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3337G12416	Location	: Vial 12
Injection Date	: 1/29/2018 6:42:07 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount	Name
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.571	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.381	1		1	-	-	-		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

=====

Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3337G12416	Location	: Vial 12
Injection Date	: 1/29/2018 6:42:07 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : Instrument Blank

=====

Height Percent Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: ECD1 A,

Peak #	RetTime [min]	Sig	Type	Height [counts]	Height %	Name
1	4.571	1	+I	0.00000	0.00000	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
2	10.381	1		0.00000	0.00000	TETRYL [2C]

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

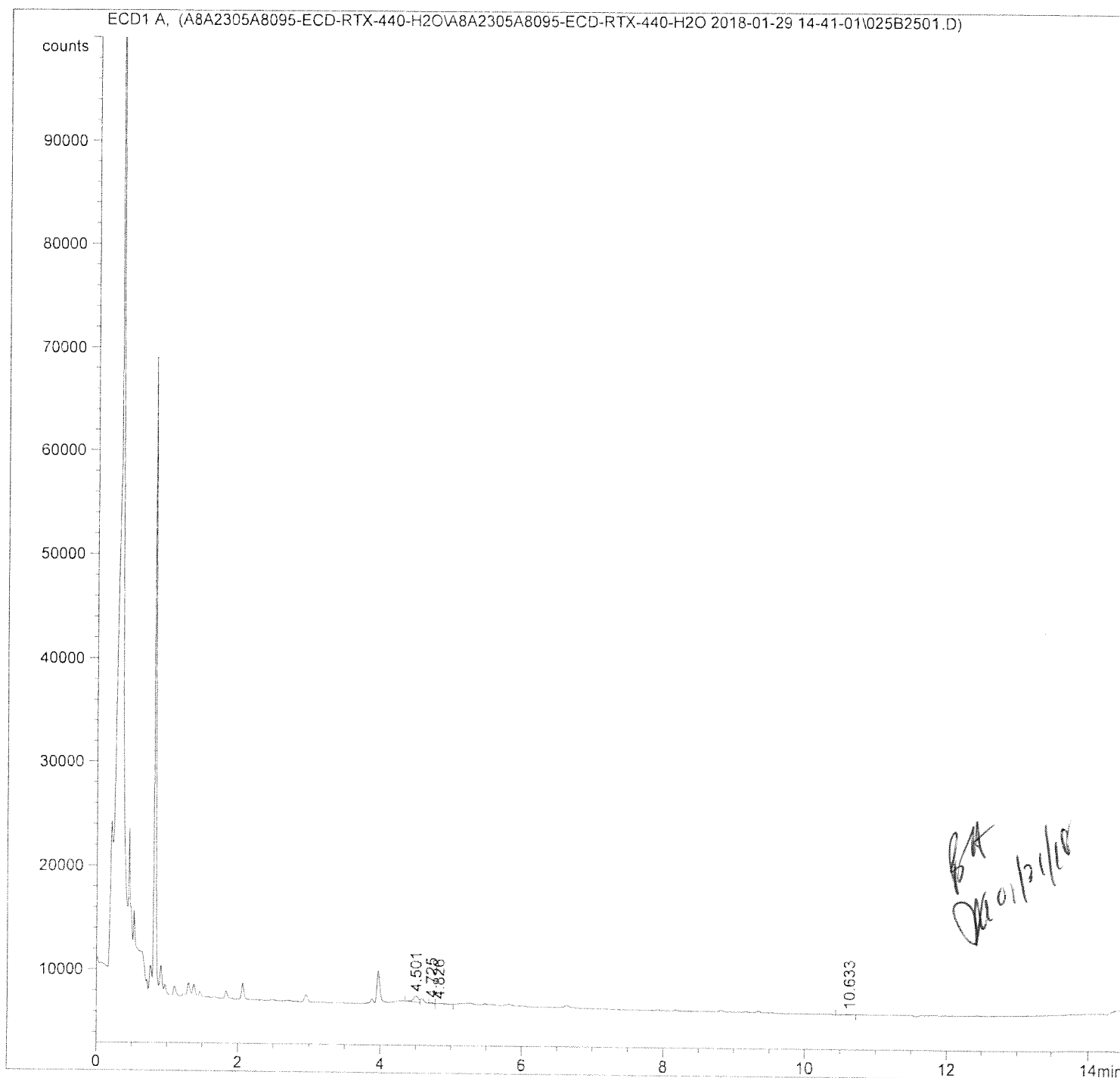
=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 25
Acq. Instrument	: 3337G12416	Location	: Vial 25
Injection Date	: 1/29/2018 11:26:42 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M		
Last changed	: 1/30/2018 8:35:45 AM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.		
	INJECTION 2 UL.		

=====



=====

Acq. Operator	: JJK	Seq. Line	: 25
Acq. Instrument	: 3337G12416	Location	: Vial 25
Injection Date	: 1/29/2018 11:26:42 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
------	-------------	------

#

-----|-----|-----

1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
---	------------	---

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.571	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.381	1		1	-	-	-		TETRYL [2C]

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Time reference compound(s) not found

=====

Height Percent Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

```
=====
Acq. Operator   : JJK                               Seq. Line :   25
Acq. Instrument : 3337G12416                         Location  : Vial 25
Injection Date  : 1/29/2018 11:26:42 PM              Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Sig	Type	Height [counts]	Height %	Name
1	4.571	1	+I	0.00000	0.00000	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
2	10.381	1		0.00000	0.00000	TETRYL [2C]

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

```
=====
*** End of Report ***
=====
```

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Instrument ID: 3336A52146

Lab File ID: 011F1101.D.Report.TXT

Sequence: A8A2305

Lab Sample ID: A8A2305-CCV1

SDG: A180310

Project: Ashland Kenvil - Kenvil, NJ

Calibration: A180120

Calibration Date: 01/23/18 16:00

Injection Date: 01/23/18

Injection Time: 19:19

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Amino-4,6-dinitrotoluene	PR	0.04000	0.0406	52.63871	47.70259		1.6	20
2-Amino-4,6-dinitrotoluene [2C]	PR	0.04000	0.0415	20.59942	18.50777		3.7	20
4-Amino-2,6-dinitrotoluene	PR	0.04000	0.0401	46.79415	41.40887		0.2	20
4-Amino-2,6-dinitrotoluene [2C]	PR	0.04000	0.0412	18.17753	15.8781		3.0	20
3,5-Dinitroaniline	PR	0.04000	0.0401	51.99405	45.04901		0.3	20
3,5-Dinitroaniline [2C]	PR	0.04000	0.0416	17.6581	15.95375		4.1	20
1,3-Dinitrobenzene	PR	0.04000	0.0419	13.03999	13.14		4.9	20
1,3-Dinitrobenzene [2C]	PR	0.04000	0.0429	9.678023	9.329511		7.3	20
2,6-Dinitrotoluene	PR	0.04000	0.0384	64.52217	55.51515		-4.1	20
2,6-Dinitrotoluene [2C]	PR	0.04000	0.0421	28.6477	25.84927		5.1	20
2,4-Dinitrotoluene	PR	0.04000	0.0392	36.94796	31.96443		-2.0	20
2,4-Dinitrotoluene [2C]	PR	0.04000	0.0423	15.74498	14.23074		5.8	20
HMX	PR	0.04000	0.0405	3.90633	3.430116		1.2	20
HMX [2C]	PR	0.04000	0.0393	1.554678	1.502118		-1.8	20
Nitroglycerin	PR	0.04000	0.0408	35.42606	34.11737		1.9	20
Nitroglycerin [2C]	PR	0.04000	0.0413	26.82404	25.18219		3.2	20
3-Nitrotoluene	PR	0.04000	0.0408	4.748276	4.356667		1.9	20
3-Nitrotoluene [2C]	PR	0.04000	0.0421	4.136159	3.825728		5.2	20
4-Nitrotoluene	PR	0.04000	0.0410	3.479793	3.361217		2.5	20
4-Nitrotoluene [2C]	PR	0.04000	0.0416	4.096185	3.764339		4.0	20
PETN	PR	0.04000	0.0425	16.72352	17.12377		6.3	20
PETN [2C]	PR	0.04000	0.0430	14.20927	13.89272		7.4	20
RDX	PR	0.04000	0.0430	53.5222	58.74676		7.5	20
RDX [2C]	PR	0.04000	0.0420	26.66314	26.04226		5.1	20
Tetryl	PR	0.04000	0.0485	14.22243	22.78834		21.2	20 *
Tetryl [2C]	PR	0.04000	0.0479		7.467891		19.8	20
1,3,5-Trinitrobenzene	PR	0.04000	0.0403	26.16421	23.91648		0.9	20
1,3,5-Trinitrobenzene [2C]	PR	0.04000	0.0435	10.95886	10.57254		8.8	20
2,4,6-Trinitrotoluene	PR	0.04000	0.0383	49.96396	43.90399		-4.3	20
2,4,6-Trinitrotoluene [2C]	PR	0.04000	0.0406	20.73467	18.67298		1.6	20
2,2'-Dinitrobiphenyl	PR	0.04000	0.0425	46.41094	46.61676		6.3	20

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Instrument ID: 3336A52146

Calibration: A180120

Lab File ID: 011B1101.D.Report.TXT

Calibration Date: 01/23/18 16:00

Sequence: A8A2305

Injection Date: 01/23/18

Lab Sample ID: A8A2305-CCV1

Injection Time: 19:19

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,2'-Dinitrobiphenyl [2C]	PR	0.04000	0.0434	19.33609	19.32798		8.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

=====

Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3337G12416	Location	: Vial 11
Injection Date	: 1/23/2018 7:24:38 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

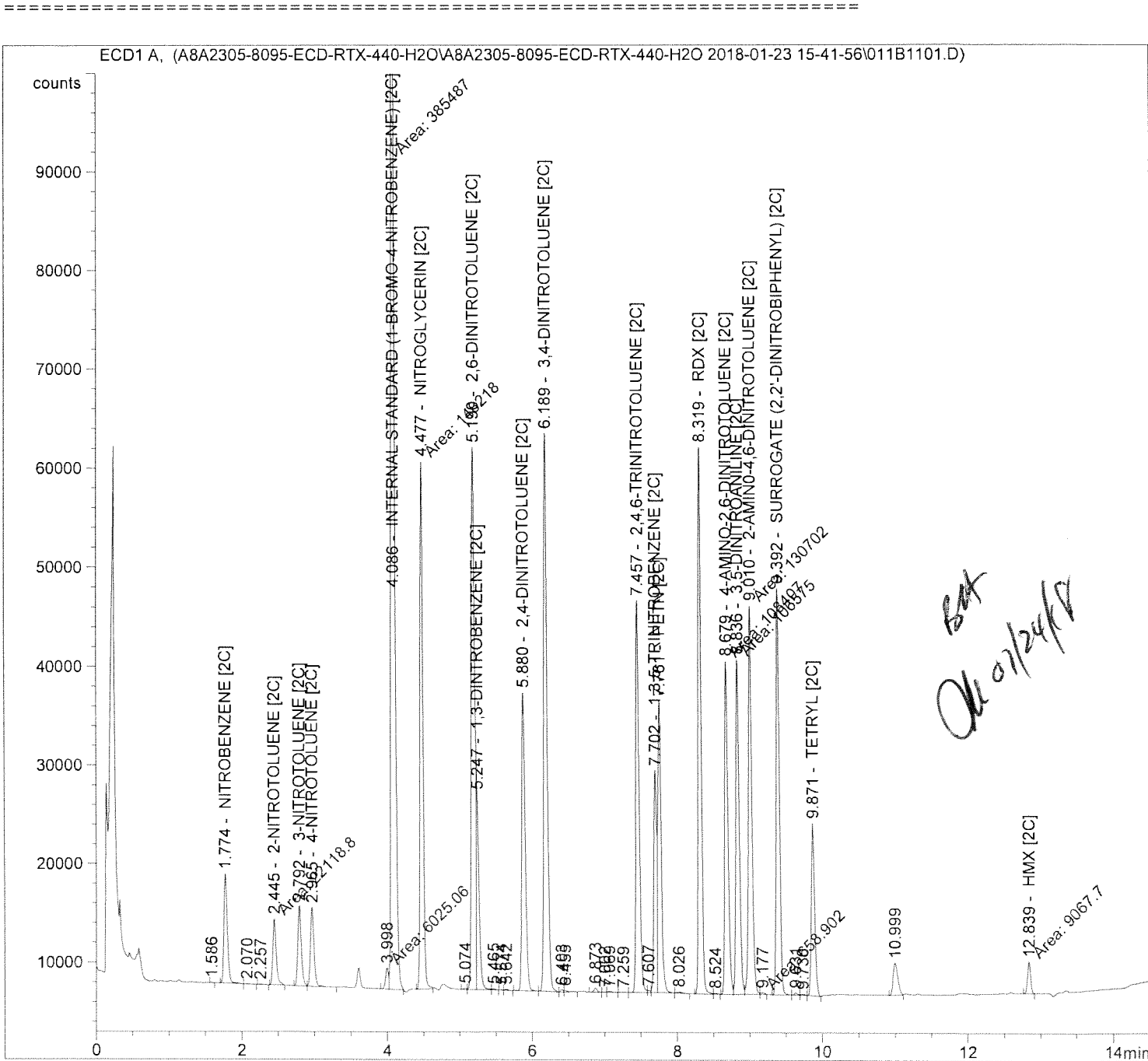
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CCV 0.04 ug/mL



=====

Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3337G12416	Location	: Vial 11
Injection Date	: 1/23/2018 7:24:38 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CCV 0.04 ug/mL

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount	Name
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.774	1	BV	1	1.10658e4	3.49738	4.13187e-2		NITROBENZENE [2C]
2.445	1	MM	1	6688.23779	5.76343	4.11543e-2		2-NITROTOLUENE [2C]
2.792	1	VV	1	8111.70557	4.85801	4.20720e-2		3-NITROTOLUENE [2C]
2.965	1	VB	1	7981.54150	4.87985	4.15830e-2		4-NITROTOLUENE [2C]
4.086	1	FM +I	1	1.17081e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.477	1	MM	1	5.33939e4	7.24136e-1	4.12795e-2		NITROGLYCERIN [2C]
5.190	1	VV	1	5.48083e4	7.18671e-1	4.20532e-2		2,6-DINITROTOLUENE [2C]
5.247	1	VV B	1	1.97814e4	2.03150	4.29039e-2		1,3-DINITROBENZENE [2C]
5.880	1	BB	1	3.01735e4	1.31384	4.23245e-2		2,4-DINITROTOLUENE [2C]
6.189	1	BB	1	5.63946e4	6.94338e-1	4.18053e-2		3,4-DINITROTOLUENE [2C]
7.457	1	BV	1	3.95924e4	9.61344e-1	4.06362e-2		2,4,6-TRINITROTOLUENE [2C]
7.702	1	VV	1	2.24170e4	1.81883	4.35302e-2		1,3,5-TRINITROBENZENE [2C]
7.761	1	VB	1	2.94568e4	1.36576	4.29519e-2		PETN [2C]
8.319	1	BV	1	5.52175e4	7.12979e-1	4.20316e-2		RDX [2C]
8.679	1	MF	1	3.36664e4	1.14602	4.11918e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.836	1	MF	1	3.38268e4	1.15282	4.16338e-2		3,5-DINITROANILINE [2C]
9.010	1	MF	1	3.92421e4	9.90456e-1	4.14964e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
9.392	1	BB +	1	4.09812e4	9.90902e-1	4.33549e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.871	1	BB	1	1.73472e4	2.57097	4.76155e-2		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3337G12416	Location	: Vial 11
Injection Date	: 1/23/2018 7:24:38 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : 8095 CCV 0.04 ug/mL

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.839	1	MM	1	3184.94629	11.55197	3.92808e-2		HMX [2C]

Totals without ISTD(s) : 8.00217e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

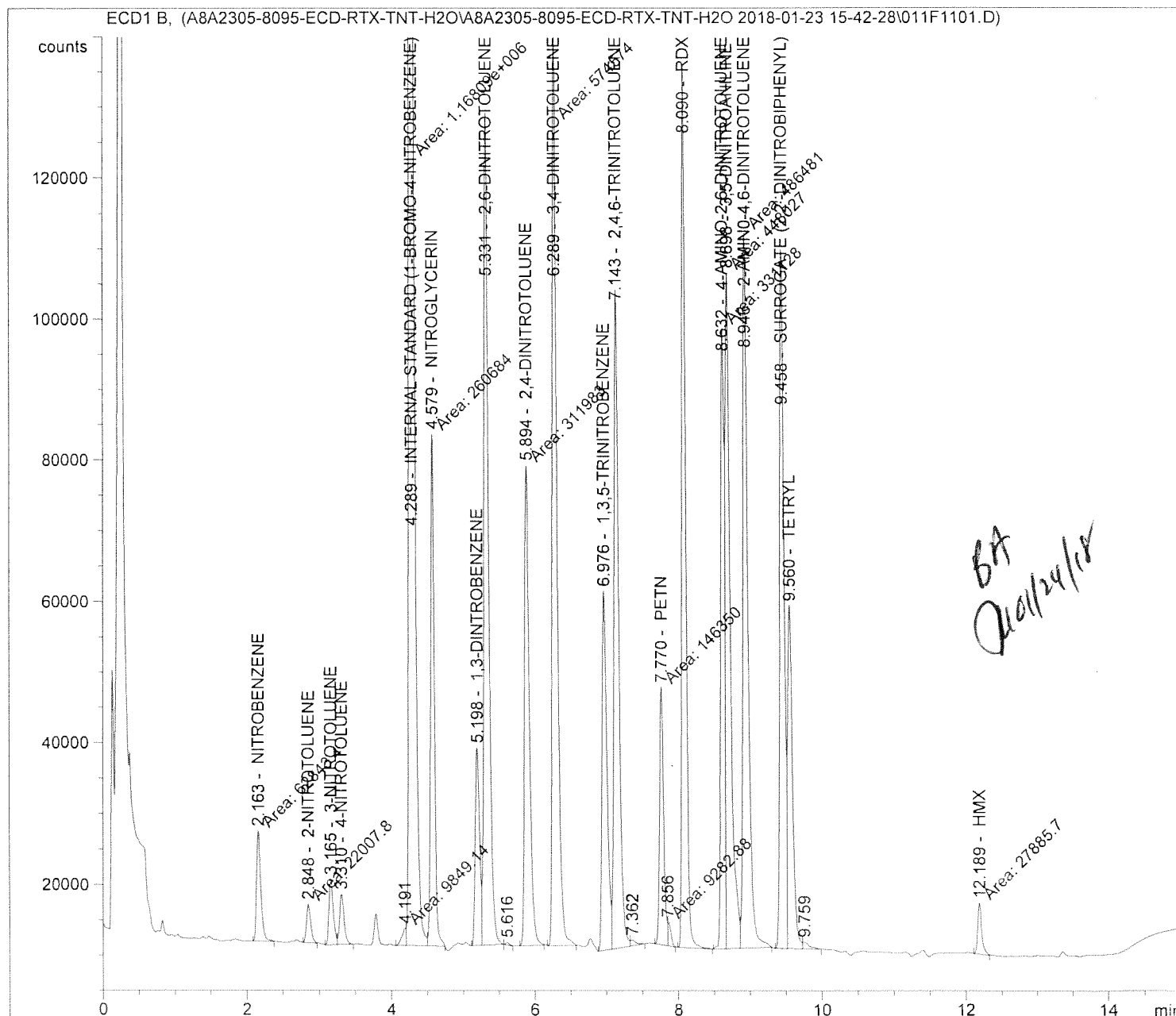
*** End of Report ***

Handwritten signature

=====

Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3336A52146	Location	: Vial 11
Injection Date	: 1/23/2018 7:19:10 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M		
Last changed	: 11/7/2017 12:56:57 PM by JJK		
Analysis Method	: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 1/24/2018 2:39:30 PM by JJK (modified after loading)		
Method Info	: Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P). INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.		
Sample Info	: 8095 CCV 0.04 ug/mL		

=====



Sample Name: A8A2305-CCV1

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=====
Acq. Operator   : JJK                               Seq. Line :   11
Acq. Instrument : 3336A52146                         Location  : Vial 11
Injection Date  : 1/23/2018 7:19:10 PM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CCV 0.04 ug/mL
=====

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=====
Internal Standard Report
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```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#

```

```

-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.163	1	MM	1	1.56063e4	5.48872	4.03993e-2		NITROBENZENE
2.848	1	MM	1	5473.20313	16.23826	4.19164e-2		2-NITROTOLUENE
3.165	1	BV	1	9237.45898	9.35995	4.07782e-2		3-NITROTOLUENE
3.310	1	VB	1	7126.80225	12.20103	4.10104e-2		4-NITROTOLUENE
4.289	1	FM +I	1	2.65038e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.579	1	FM	1	7.23392e4	1.19464	4.07579e-2		NITROGLYCERIN
5.198	1	BV	1	2.78608e4	3.19232	4.19471e-2		1,3-DINITROBENZENE
5.331	1	VB	1	1.17709e5	6.90911e-1	3.83559e-2		2,6-DINITROTOLUENE
5.894	1	MM	1	6.77743e4	1.22663	3.92087e-2		2,4-DINITROTOLUENE
6.289	1	MM	1	1.28626e5	6.54188e-1	3.96857e-2		3,4-DINITROTOLUENE
6.976	1	BV	1	5.07102e4	1.68692	4.03453e-2		1,3,5-TRINITROBENZENE
7.143	1	VV	1	9.30898e4	8.71816e-1	3.82763e-2		2,4,6-TRINITROTOLUENE
7.770	1	MF	1	3.63076e4	2.48326	4.25229e-2		PETN
8.090	1	BB	1	1.24561e5	7.32123e-1	4.30098e-2		RDX
8.632	1	MF	1	8.77994e4	9.68259e-1	4.00946e-2		4-AMINO-2,6-DINITROTOLUENE
8.698	1	FM	1	9.55176e4	8.90809e-1	4.01301e-2		3,5-DINITROANILINE
8.946	1	FM	1	1.01144e5	8.51869e-1	4.06364e-2		2-AMINO-4,6-DINITROTOLUENE
9.458	1	BV +	1	9.88417e4	9.12285e-1	4.25278e-2		SURROGATE (2,2'-DINITROBIPHENYL)

Sample Name: A8A2305-CCV1

```

=====
Acq. Operator   : JJK                               Seq. Line :   11
Acq. Instrument : 3336A52146                         Location  : Vial 11
Injection Date  : 1/23/2018 7:19:10 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CCV 0.04 ug/mL
    
```

```

=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
  [min]      used [counts]    ratio
-----|---|-----|-----|-----|-----|---|-----
   9.560   1 VV      1 4.83182e4   2.12757 4.84839e-2  TETRYL
  12.189   1 MM      1 7272.88818 11.80113 4.04793e-2  HMX
    
```

Totals without ISTD(s) : 7.80566e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

1212 (HC)
01/24/18

=====

Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3337G12416	Location	: Vial 11
Injection Date	: 1/29/2018 6:20:14 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

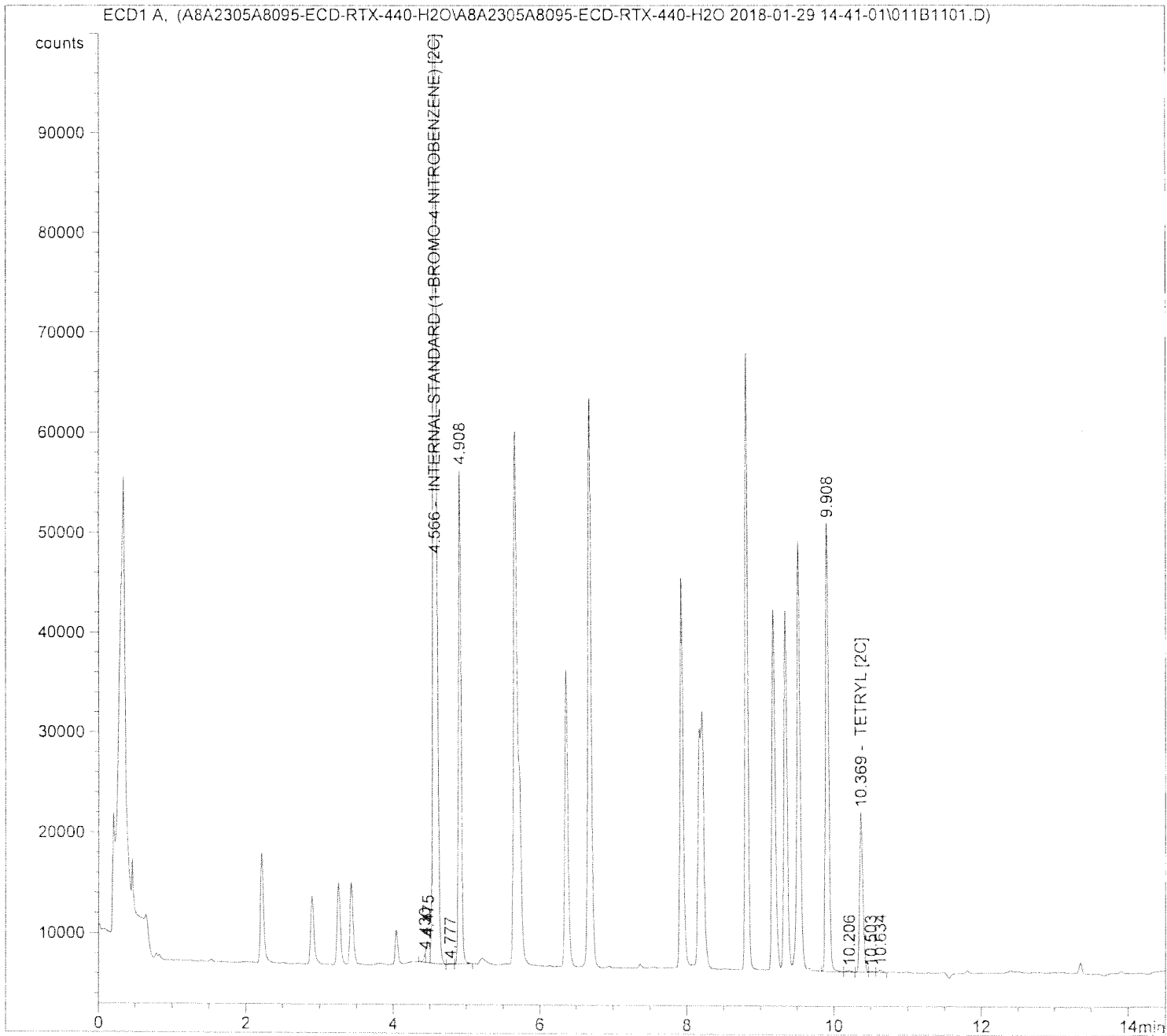
Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CCV 0.04 ug/mL



Sample Name: A8A2305-CCV1

```
=====
Acq. Operator   : JJK                               Seq. Line :   11
Acq. Instrument : 3337G12416                         Location  : Vial 11
Injection Date  : 1/29/2018 6:20:14 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : 8095 CCV 0.04 ug/mL

```
=====
Internal Standard Report
=====
```

```
Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.566	1	VB +I	1	1.15488e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.369	1	BV	1	1.58342e4	2.79657	4.79285e-2		TETRYL [2C]

Totals without ISTD(s) : 4.79285e-2

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

119.82
OK
1/31/18

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Instrument ID: 3336A52146

Lab File ID: 022F2201.D.Report.TXT

Sequence: A8A2305

Lab Sample ID: A8A2305-CCV2

SDG: A180310

Project: Ashland Kenvil - Kenvil, NJ

Calibration: A180120

Calibration Date: 01/23/18 16:00

Injection Date: 01/23/18

Injection Time: 23:15

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Amino-4,6-dinitrotoluene	PR	0.04000	0.0394	52.63871	46.43817		-1.5	20
2-Amino-4,6-dinitrotoluene [2C]	PR	0.04000	0.0419	20.59942	22.12642		4.8	20
4-Amino-2,6-dinitrotoluene	PR	0.04000	0.0393	46.79415	40.72738		-1.7	20
4-Amino-2,6-dinitrotoluene [2C]	PR	0.04000	0.0407	18.17753	18.60244		1.7	20
3,5-Dinitroaniline	PR	0.04000	0.0388	51.99405	43.74159		-3.1	20
3,5-Dinitroaniline [2C]	PR	0.04000	0.0411	17.6581	18.69379		2.8	20
1,3-Dinitrobenzene	PR	0.04000	0.0418	13.03999	13.0973		4.5	20
1,3-Dinitrobenzene [2C]	PR	0.04000	0.0423	9.678023	10.90307		5.7	20
2,6-Dinitrotoluene	PR	0.04000	0.0382	64.52217	55.3323		-4.5	20
2,6-Dinitrotoluene [2C]	PR	0.04000	0.0409	28.6477	29.87222		2.3	20
2,4-Dinitrotoluene	PR	0.04000	0.0391	36.94796	31.90438		-2.2	20
2,4-Dinitrotoluene [2C]	PR	0.04000	0.0413	15.74498	16.50865		3.4	20
HMX	PR	0.04000	0.0389	3.90633	3.252663		-2.7	20
HMX [2C]	PR	0.04000	0.0396	1.554678	1.798642		-1.0	20
Nitroglycerin	PR	0.04000	0.0382	35.42606	32.11314		-4.5	20
Nitroglycerin [2C]	PR	0.04000	0.0392	26.82404	28.402		-1.9	20
3-Nitrotoluene	PR	0.04000	0.0405	4.748276	4.327449		1.2	20
3-Nitrotoluene [2C]	PR	0.04000	0.0409	4.136159	4.419701		2.4	20
4-Nitrotoluene	PR	0.04000	0.0415	3.479793	3.398639		3.8	20
4-Nitrotoluene [2C]	PR	0.04000	0.0409	4.096185	4.386734		2.1	20
PETN	PR	0.04000	0.0369	16.72352	14.94368		-7.8	20
PETN [2C]	PR	0.04000	0.0398	14.20927	15.28087		-0.6	20
RDX	PR	0.04000	0.0418	53.5222	57.02967		4.5	20
RDX [2C]	PR	0.04000	0.0412	26.66314	30.2661		3.1	20
Tetryl	PR	0.04000	0.0439	14.22243	19.88875		9.7	20
Tetryl [2C]	PR	0.04000	0.0483		9.412938		20.8	20 *
1,3,5-Trinitrobenzene	PR	0.04000	0.0383	26.16421	22.84936		-4.2	20
1,3,5-Trinitrobenzene [2C]	PR	0.04000	0.0432	10.95886	12.44213		8.1	20
2,4,6-Trinitrotoluene	PR	0.04000	0.0368	49.96396	42.35393		-8.0	20
2,4,6-Trinitrotoluene [2C]	PR	0.04000	0.0398	20.73467	21.70845		-0.4	20
2,2'-Dinitrobiphenyl	PR	0.04000	0.0413	46.41094	45.36992		3.3	20

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Instrument ID: 3336A52146

Calibration: A180120

Lab File ID: 022B2201.D.Report.TXT

Calibration Date: 01/23/18 16:00

Sequence: A8A2305

Injection Date: 01/23/18

Lab Sample ID: A8A2305-CCV2

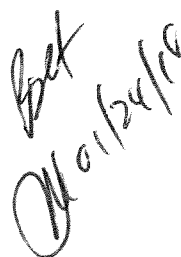
Injection Time: 23:15

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,2'-Dinitrobiphenyl [2C]	PR	0.04000	0.0436	19.33609	23.03185		9.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Sample Info : 8095 CCV 0.04 ug/mL



Sample Name: A8A2305-CCV2

```

=====
Acq. Operator   : JJK                               Seq. Line :   22
Acq. Instrument : 3337G12416                         Location  : Vial 22
Injection Date  : 1/23/2018 11:26:58 PM              Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

```

Sample Info : 8095 CCV 0.04 ug/mL

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.777	1	MM	1	1.18147e4	3.48827	4.00053e-2		NITROBENZENE [2C]
2.448	1	MM	1	7120.40576	5.75274	3.97617e-2		2-NITROTOLUENE [2C]
2.796	1	BV	1	8699.49219	4.84870	4.09453e-2		3-NITROTOLUENE [2C]
2.968	1	VB	1	8634.60156	4.87409	4.08528e-2		4-NITROTOLUENE [2C]
4.089	1	FM +I	1	1.28773e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.479	1	MM	1	5.59049e4	7.22760e-1	3.92220e-2		NITROGLYCERIN [2C]
5.192	1	VV	1	5.87988e4	7.16830e-1	4.09138e-2		2,6-DINITROTOLUENE [2C]
5.250	1	VV B	1	2.14610e4	2.03010	4.22915e-2		1,3-DINITROBENZENE [2C]
5.882	1	BB	1	3.24947e4	1.31088	4.13484e-2		2,4-DINITROTOLUENE [2C]
6.190	1	BB	1	6.07828e4	6.92891e-1	4.08819e-2		3,4-DINITROTOLUENE [2C]
7.458	1	MF	1	4.27297e4	9.60154e-1	3.98250e-2		2,4,6-TRINITROTOLUENE [2C]
7.704	1	MF	1	2.44904e4	1.81804	4.32200e-2		1,3,5-TRINITROBENZENE [2C]
7.761	1	FM	1	3.00780e4	1.36214	3.97699e-2		PETN [2C]
8.320	1	MF	1	5.95741e4	7.12887e-1	4.12253e-2		RDX [2C]
8.680	1	MF	1	3.66160e4	1.14452	4.06801e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.837	1	FM	1	3.67958e4	1.15166	4.11346e-2		3,5-DINITROANILINE [2C]
9.011	1	FM	1	4.35524e4	9.91302e-1	4.19087e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	BB +	1	4.53346e4	9.91013e-1	4.36109e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.871	1	BB	1	1.91470e4	2.56836	4.77356e-2		TETRYL [2C]

```
=====
Acq. Operator   : JJK                               Seq. Line :   22
Acq. Instrument : 3337G12416                         Location  : Vial 22
Injection Date  : 1/23/2018 11:26:58 PM              Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info      : 8095 CCV 0.04 ug/mL
=====
```

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
12.838	1	MM	1	3540.34619	11.52776	3.96165e-2		HMX [2C]

Totals without ISTD(s) : 7.84950e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

Sample Name: A8A2305-CCV2

=====

Acq. Operator : JJK Seq. Line : 22
Acq. Instrument : 3336A52146 Location : Vial 22
Injection Date : 1/23/2018 11:15:31 PM Inj : 1
Inj Volume : Manually

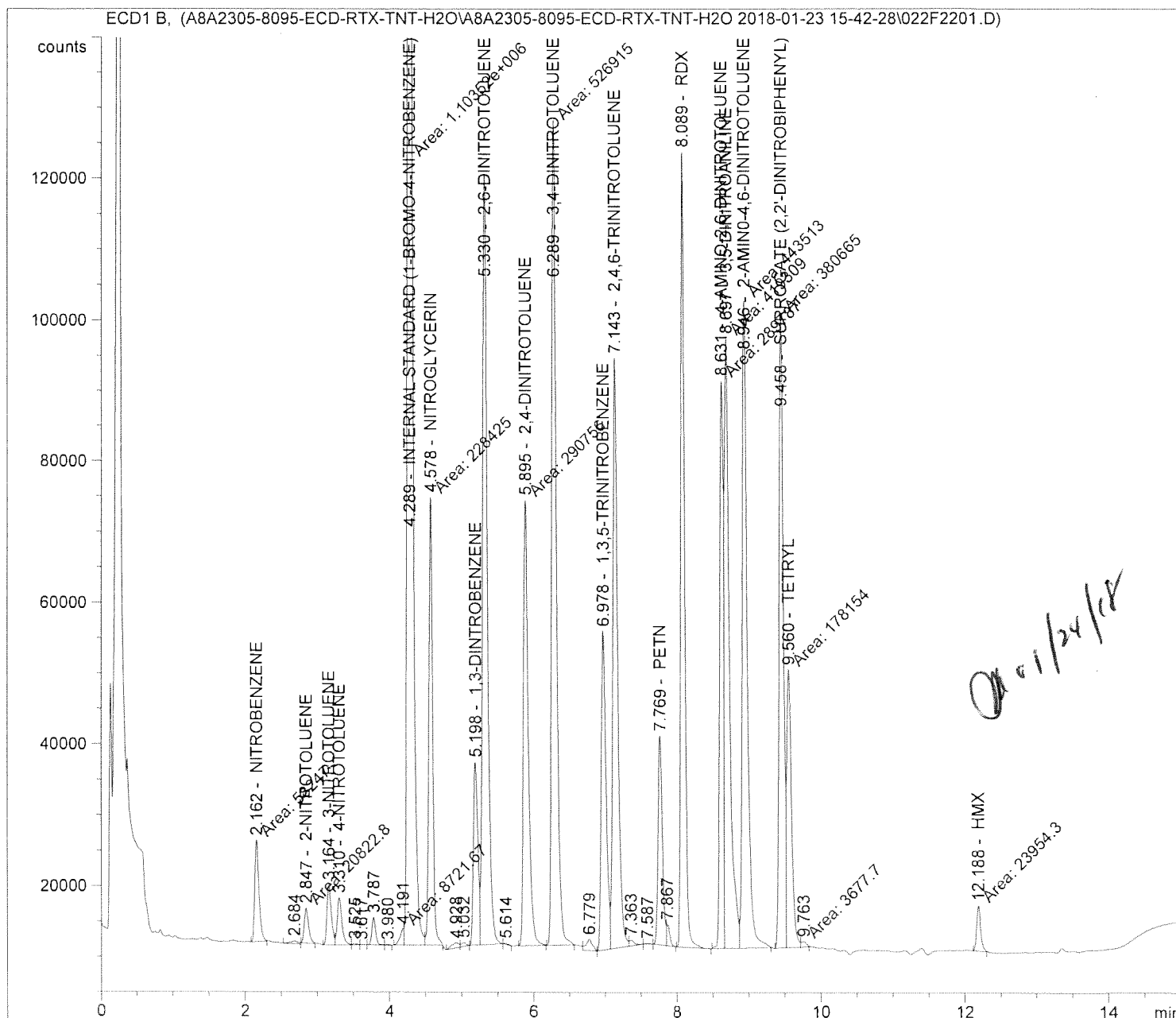
Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5
MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info : 8095 CCV 0.04 ug/mL

=====



=====

Acq. Operator	: JJK	Seq. Line	: 22
Acq. Instrument	: 3336A52146	Location	: Vial 22
Injection Date	: 1/23/2018 11:15:31 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M

Last changed : 11/7/2017 12:56:57 PM by JJK

Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M

Last changed : 1/24/2018 2:39:30 PM by JJK
(modified after loading)

Method Info : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P).
INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info : 8095 CCV 0.04 ug/mL

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 1:25:16 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.162	1	MM	1	1.43498e4	5.48263	3.99699e-2		NITROBENZENE
2.847	1	MM	1	4997.25732	16.22924	4.12030e-2		2-NITROTOLUENE
3.164	1	BV	1	8517.90820	9.35214	4.04710e-2		3-NITROTOLUENE
3.310	1	VV	1	6689.69043	12.21111	4.15012e-2		4-NITROTOLUENE
4.289	1	MF +I	1	2.46043e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.578	1	FM	1	6.32097e4	1.18953	3.81996e-2		NITROGLYCERIN
5.198	1	BV	1	2.57800e4	3.19185	4.18048e-2		1,3-DINITROBENZENE
5.330	1	VB	1	1.08913e5	6.90599e-1	3.82124e-2		2,6-DINITROTOLUENE
5.895	1	MM	1	6.27988e4	1.22628	3.91237e-2		2,4-DINITROTOLUENE
6.289	1	MM	1	1.16698e5	6.52580e-1	3.86899e-2		3,4-DINITROTOLUENE
6.978	1	BV	1	4.49754e4	1.67768	3.83339e-2		1,3,5-TRINITROBENZENE
7.143	1	VV	1	8.33671e4	8.68475e-1	3.67834e-2		2,4,6-TRINITROTOLUENE
7.769	1	BV	1	2.94143e4	2.46765	3.68759e-2		PETN
8.089	1	BB	1	1.12254e5	7.32756e-1	4.17889e-2		RDX
8.631	1	MF	1	8.01655e4	9.65891e-1	3.93382e-2		4-AMINO-2,6-DINITROTOLUENE
8.697	1	FM	1	8.60985e4	8.86517e-1	3.87777e-2		3,5-DINITROANILINE
8.946	1	FM	1	9.14063e4	8.48774e-1	3.94156e-2		2-AMINO-4,6-DINITROTOLUENE
9.458	1	MF +	1	8.93036e4	9.10595e-1	4.13137e-2		SURROGATE (2,2'-DINITROBIPHENYL)

Sample Name: A8A2305-CCV2

```
=====
Acq. Operator   : JJK                      Seq. Line :   22
Acq. Instrument : 3336A52146                Location  : Vial 22
Injection Date  : 1/23/2018 11:15:31 PM      Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CCV 0.04 ug/mL
=====
```

```
=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
 [min]      used [counts]    ratio
-----|---|-----|-----|-----|-----|---|-----
   9.560   1 FM      1 3.91479e4    2.20638 4.38821e-2  TETRYL
  12.188   1 MM      1 6402.36035  11.96514 3.89186e-2  HMX
```

Totals without ISTD(s) : 7.54603e-1

OK 1/24/18

1 Warnings or Errors :

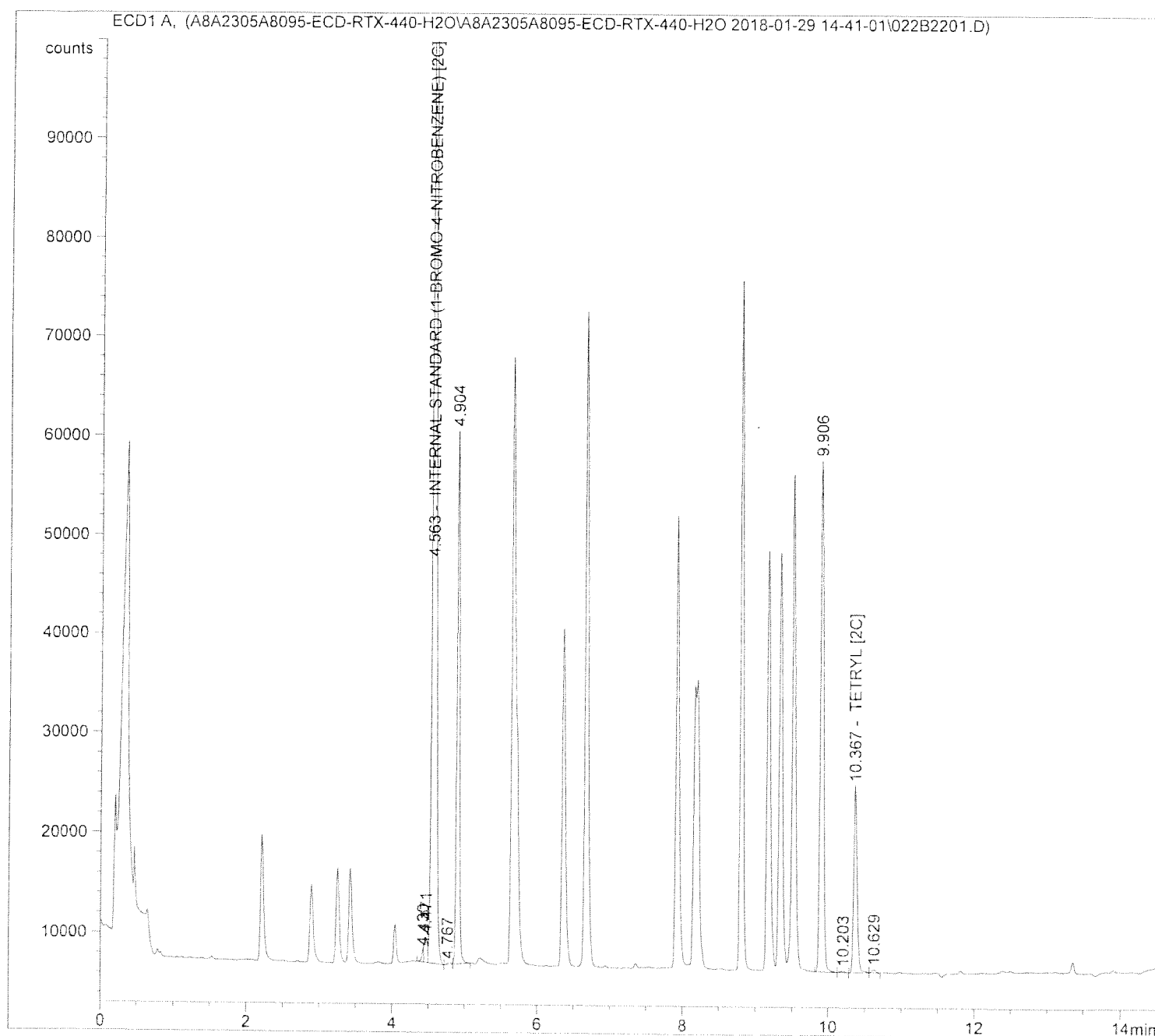
Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

=====

Acq. Operator	: JJK	Seq. Line	: 22
Acq. Instrument	: 3337G12416	Location	: Vial 22
Injection Date	: 1/29/2018 10:21:13 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M		
Last changed	: 1/30/2018 8:35:45 AM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		
Sample Info	: 8095 CCV 0.04 ug/mL		

=====



=====

Acq. Operator	: JJK	Seq. Line	: 22
Acq. Instrument	: 3337G12416	Location	: Vial 22
Injection Date	: 1/29/2018 10:21:13 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M

Last changed : 1/30/2018 8:35:45 AM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 CCV 0.04 ug/mL

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : 1/30/2018 8:20:33 AM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
------	-------------	------

#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.563	1	VB +I	1	1.33841e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.367	1	BV	1	1.85279e4	2.79130	4.83008e-2		TETRYL [2C]

Totals without ISTD(s) : 4.83008e-2

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Instrument ID: 3336A52146

Lab File ID: 026F2601.D.Report.TXT

Sequence: A8A2305

Lab Sample ID: A8A2305-CCV3

SDG: A180310

Project: Ashland Kenvil - Kenvil, NJ

Calibration: A180120

Calibration Date: 01/23/18 16:00

Injection Date: 01/24/18

Injection Time: 00:41

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Amino-4,6-dinitrotoluene	PR	0.04000	0.0401	52.63871	47.19092		0.4	20
2-Amino-4,6-dinitrotoluene [2C]	PR	0.04000	0.0413	20.59942	21.72518		3.2	20
4-Amino-2,6-dinitrotoluene	PR	0.04000	0.0404	46.79415	41.66794		1.0	20
4-Amino-2,6-dinitrotoluene [2C]	PR	0.04000	0.0406	18.17753	18.48548		1.5	20
3,5-Dinitroaniline	PR	0.04000	0.0396	51.99405	44.58212		-0.9	20
3,5-Dinitroaniline [2C]	PR	0.04000	0.0417	17.6581	18.86038		4.3	20
1,3-Dinitrobenzene	PR	0.04000	0.0412	13.03999	12.91817		3.0	20
1,3-Dinitrobenzene [2C]	PR	0.04000	0.0430	9.678023	11.02001		7.4	20
2,6-Dinitrotoluene	PR	0.04000	0.0378	64.52217	54.76273		-5.6	20
2,6-Dinitrotoluene [2C]	PR	0.04000	0.0406	28.6477	29.53807		1.5	20
2,4-Dinitrotoluene	PR	0.04000	0.0387	36.94796	31.62321		-3.2	20
2,4-Dinitrotoluene [2C]	PR	0.04000	0.0408	15.74498	16.25807		2.1	20
HMX	PR	0.04000	0.0413	3.90633	3.527533		3.3	20
HMX [2C]	PR	0.04000	0.0388	1.554678	1.745803		-3.0	20
Nitroglycerin	PR	0.04000	0.0371	35.42606	31.24077		-7.3	20
Nitroglycerin [2C]	PR	0.04000	0.0390	26.82404	28.15807		-2.4	20
3-Nitrotoluene	PR	0.04000	0.0405	4.748276	4.332231		1.3	20
3-Nitrotoluene [2C]	PR	0.04000	0.0411	4.136159	4.41806		2.8	20
4-Nitrotoluene	PR	0.04000	0.0420	3.479793	3.436627		5.0	20
4-Nitrotoluene [2C]	PR	0.04000	0.0406	4.096185	4.342514		1.5	20
PETN	PR	0.04000	0.0385	16.72352	15.56184		-3.8	20
PETN [2C]	PR	0.04000	0.0398	14.20927	15.21638		-0.6	20
RDX	PR	0.04000	0.0424	53.5222	57.84142		5.9	20
RDX [2C]	PR	0.04000	0.0412	26.66314	30.09961		2.9	20
Tetryl	PR	0.04000	0.0469	14.22243	21.77284		17.2	20
Tetryl [2C]	PR	0.04000	0.0483		8.027628		20.8	20 *
1,3,5-Trinitrobenzene	PR	0.04000	0.0390	26.16421	23.18652		-2.6	20
1,3,5-Trinitrobenzene [2C]	PR	0.04000	0.0426	10.95886	12.22734		6.5	20
2,4,6-Trinitrotoluene	PR	0.04000	0.0370	49.96396	42.54617		-7.6	20
2,4,6-Trinitrotoluene [2C]	PR	0.04000	0.0395	20.73467	21.46488		-1.2	20
2,2'-Dinitrobiphenyl	PR	0.04000	0.0424	46.41094	46.52671		6.1	20

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Instrument ID: 3336A52146

Calibration: A180120

Lab File ID: 026B2601.D.Report.TXT

Calibration Date: 01/23/18 16:00

Sequence: A8A2305

Injection Date: 01/24/18

Lab Sample ID: A8A2305-CCV3

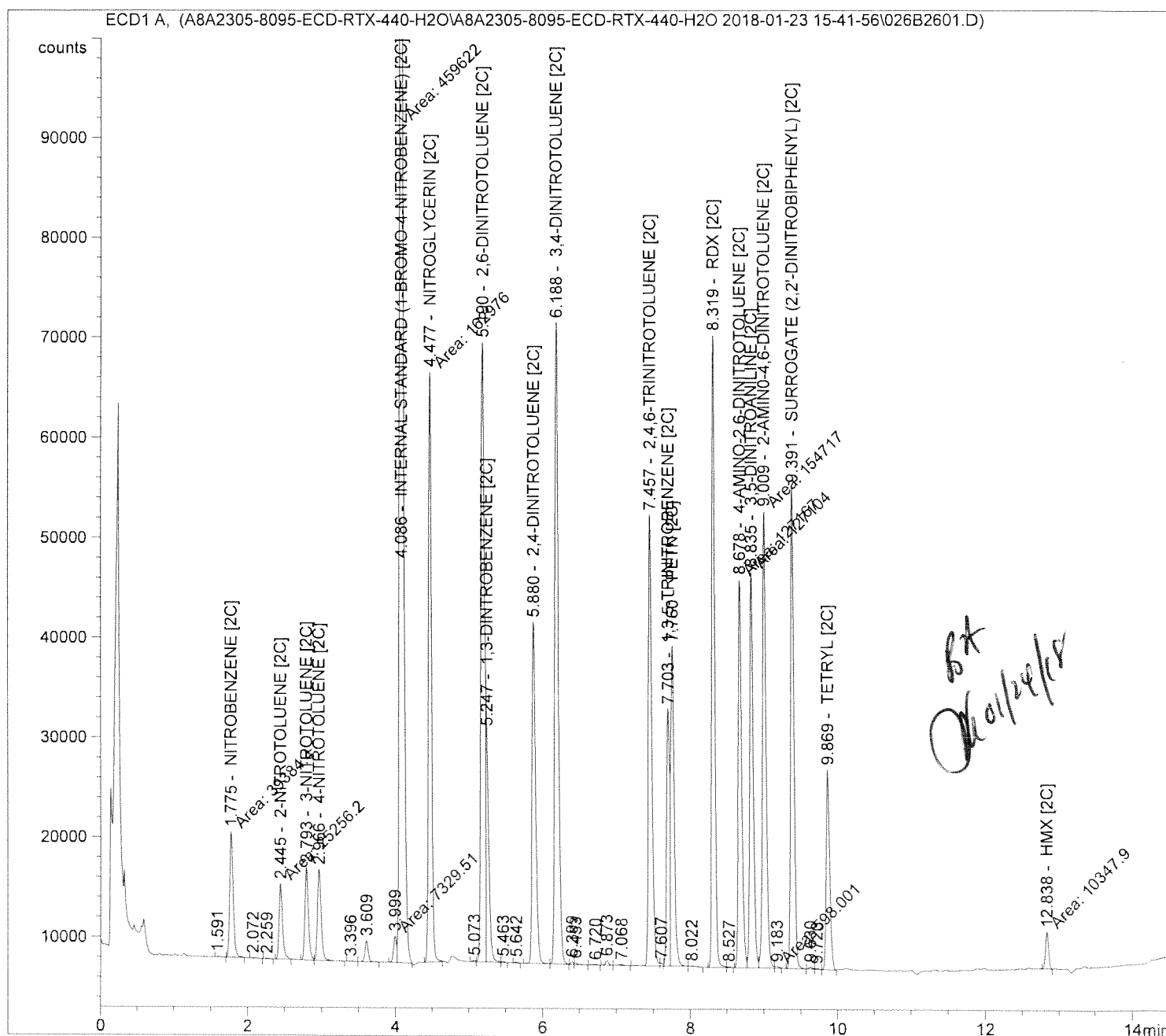
Injection Time: 00:41

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,2'-Dinitrobiphenyl [2C]	PR	0.04000	0.0435	19.33609	22.88781		8.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

.....



Sample Name: A8A2305-CCV3

```

=====
Acq. Operator   : JJK                               Seq. Line :   26
Acq. Instrument : 3337G12416                         Location  : Vial 26
Injection Date  : 1/24/2018 12:55:03 AM              Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-
                  H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed    : 1/24/2018 4:04:25 PM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CCV 0.04 ug/mL
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 4:04:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
----|-----|-----
1    1.25000e-1    INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
1.775	1	MM	1	1.25724e4	3.48932	4.01546e-2		NITROBENZENE [2C]
2.445	1	MM	1	7559.46436	5.75310	3.98079e-2		2-NITROTOLUENE [2C]
2.793	1	BV	1	9260.35938	4.85008	4.11105e-2		3-NITROTOLUENE [2C]
2.966	1	VB	1	9102.01367	4.87200	4.05902e-2		4-NITROTOLUENE [2C]
4.086	1	FM +I	1	1.36563e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.477	1	MM	1	5.90200e4	7.22634e-1	3.90385e-2		NITROGLYCERIN [2C]
5.190	1	VV	1	6.19125e4	7.16304e-1	4.05931e-2		2,6-DINITROTOLUENE [2C]
5.247	1	VV B	1	2.30982e4	2.03161	4.29533e-2		1,3-DINITROBENZENE [2C]
5.880	1	BB	1	3.40773e4	1.30930	4.08395e-2		2,4-DINITROTOLUENE [2C]
6.188	1	BB	1	6.40695e4	6.92458e-1	4.06088e-2		3,4-DINITROTOLUENE [2C]
7.457	1	BV	1	4.49909e4	9.59703e-1	3.95219e-2		2,4,6-TRINITROTOLUENE [2C]
7.703	1	VV	1	2.56288e4	1.81648	4.26123e-2		1,3,5-TRINITROBENZENE [2C]
7.760	1	VB	1	3.18939e4	1.36213	3.97651e-2		PETN [2C]
8.319	1	BV	1	6.30895e4	7.12880e-1	4.11670e-2		RDX [2C]
8.678	1	MF	1	3.87460e4	1.14423	4.05804e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.835	1	FM	1	3.95318e4	1.15303	4.17218e-2		3,5-DINITROANILINE [2C]
9.009	1	FM	1	4.55365e4	9.89974e-1	4.12629e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
9.391	1	BB +	1	4.79734e4	9.90972e-1	4.35149e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.869	1	BB	1	1.98817e4	2.58397	4.70237e-2		TETRYL [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 26
Acq. Instrument	: 3337G12416	Location	: Vial 26
Injection Date	: 1/24/2018 12:55:03 AM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M		
Last changed	: 11/9/2017 1:20:54 PM by JJK		
Analysis Method	: C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M		
Last changed	: 1/24/2018 4:04:25 PM by JJK		
Method Info	: Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.		
Sample Info	: 8095 CCV 0.04 ug/mL		

=====

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
12.838	1	MM	1	3659.24585	11.58651	3.88079e-2		HMX [2C]

Totals without ISTD(s) : 7.81674e-1

1 Warnings or Errors :

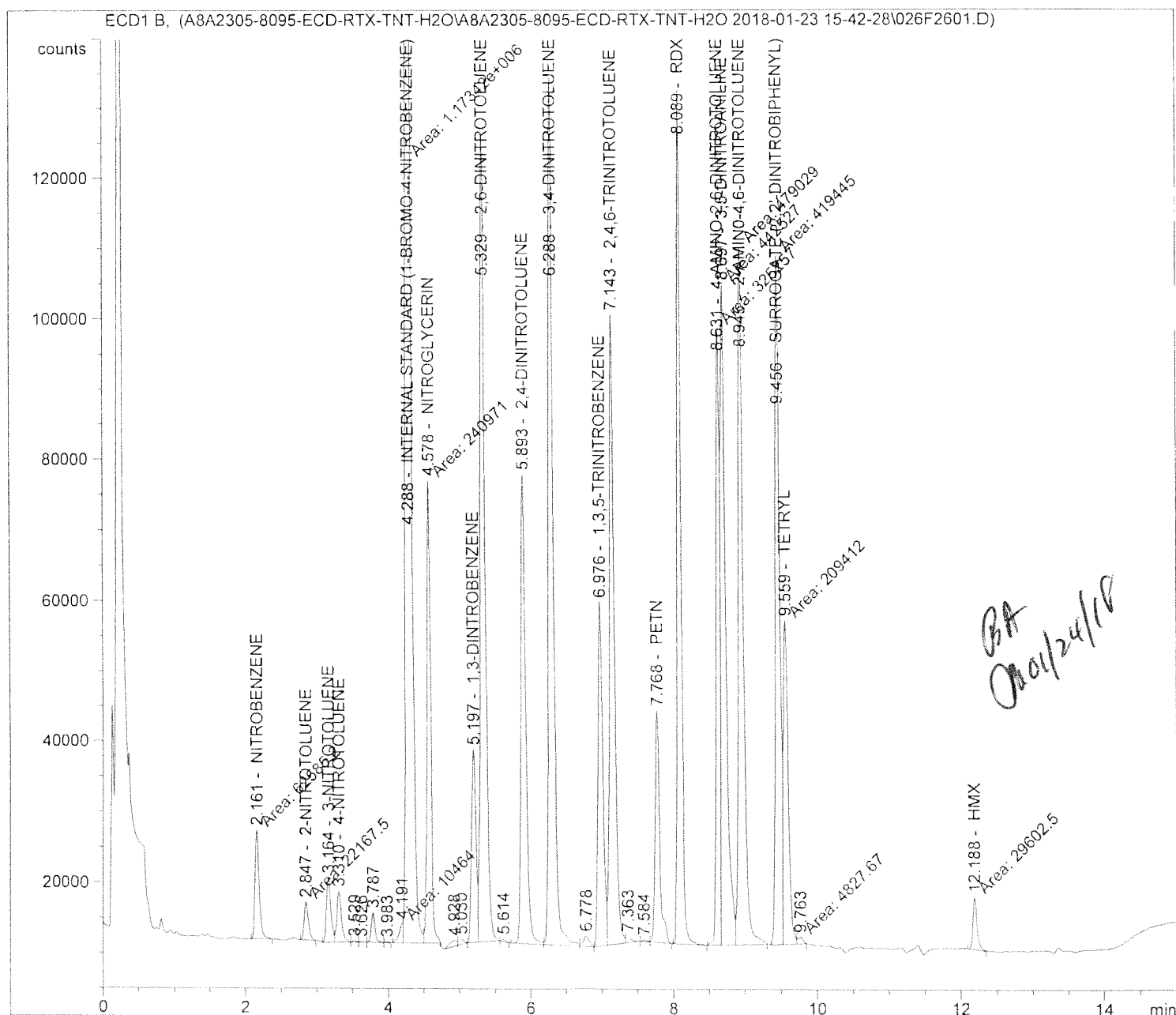
Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

01/24/18

Sample Info : 8095 CCV 0.04 ug/mL



Sample Name: A8A2305-CCV3

```

=====
Acq. Operator   : JJK                               Seq. Line :   26
Acq. Instrument : 3336A52146                         Location  : Vial 26
Injection Date  : 1/24/2018 12:41:26 AM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
                  H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.

Sample Info     : 8095 CCV 0.04 ug/mL
=====

```

```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, January 24, 2018 1:25:16 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
-----|-----|-----
1  1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.161	1	MM	1	1.53790e4	5.48671	4.02571e-2		NITROBENZENE
2.847	1	MM	1	5379.77441	16.23516	4.16701e-2		2-NITROTOLUENE
3.164	1	BV	1	9080.46094	9.35342	4.05212e-2		3-NITROTOLUENE
3.310	1	VV	1	7203.25342	12.22124	4.19998e-2		4-NITROTOLUENE
4.288	1	FM +I	1	2.62003e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.578	1	FM	1	6.54814e4	1.18721	3.70895e-2		NITROGLYCERIN
5.197	1	BV	1	2.70768e4	3.18987	4.12073e-2		1,3-DINITROBENZENE
5.329	1	VB	1	1.14784e5	6.89623e-1	3.77656e-2		2,6-DINITROTOLUENE
5.893	1	BV	1	6.62830e4	1.22462	3.87262e-2		2,4-DINITROTOLUENE
6.288	1	VV	1	1.23199e5	6.51976e-1	3.83215e-2		3,4-DINITROTOLUENE
6.976	1	BV	1	4.85995e4	1.68064	3.89682e-2		1,3,5-TRINITROBENZENE
7.143	1	VV	1	8.91778e4	8.68895e-1	3.69681e-2		2,4,6-TRINITROTOLUENE
7.768	1	VB	1	3.26180e4	2.47229	3.84734e-2		PETN
8.089	1	BB	1	1.21237e5	7.32455e-1	4.23660e-2		RDX
8.631	1	MF	1	8.73370e4	9.69150e-1	4.03824e-2		4-AMINO-2,6-DINITROTOLUENE
8.697	1	FM	1	9.34452e4	8.89288e-1	3.96463e-2		3,5-DINITROANILINE
8.945	1	FM	1	9.89133e4	8.50625e-1	4.01417e-2		2-AMINO-4,6-DINITROTOLUENE
9.456	1	MF +	1	9.75211e4	9.12165e-1	4.24400e-2		SURROGATE (2,2'-DINITROBIPHENYL)

Sample Name: A8A2305-CCV3

```
=====
Acq. Operator   : JJK                               Seq. Line :   26
Acq. Instrument : 3336A52146                         Location  : Vial 26
Injection Date  : 1/24/2018 12:41:26 AM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-
H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M
Last changed    : 11/7/2017 12:56:57 PM by JJK
Analysis Method : C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M
Last changed    : 1/24/2018 2:39:30 PM by JJK
                  (modified after loading)
Method Info     : Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID   1.5
                  MICRON FILM, (S/N 1153047/P).
                  INJECTION 2 UL INTO A 4 MM CYCLOSPLITTER LINER USING A GOLD SEAL.
```

Sample Info : 8095 CCV 0.04 ug/mL

```
=====
RetTime Sig Type  ISTD  Height  Amt/Height  Amount  Grp  Name
 [min]      used [counts]    ratio
-----|---|-----|-----|-----|-----|---|-----
   9.559   1 FM      1 4.56364e4    2.15365 4.68911e-2  TETRYL
  12.188   1 MM      1 7393.79443   11.71558 4.13271e-2   HMX
```

Totals without ISTD(s) : 7.65162e-1

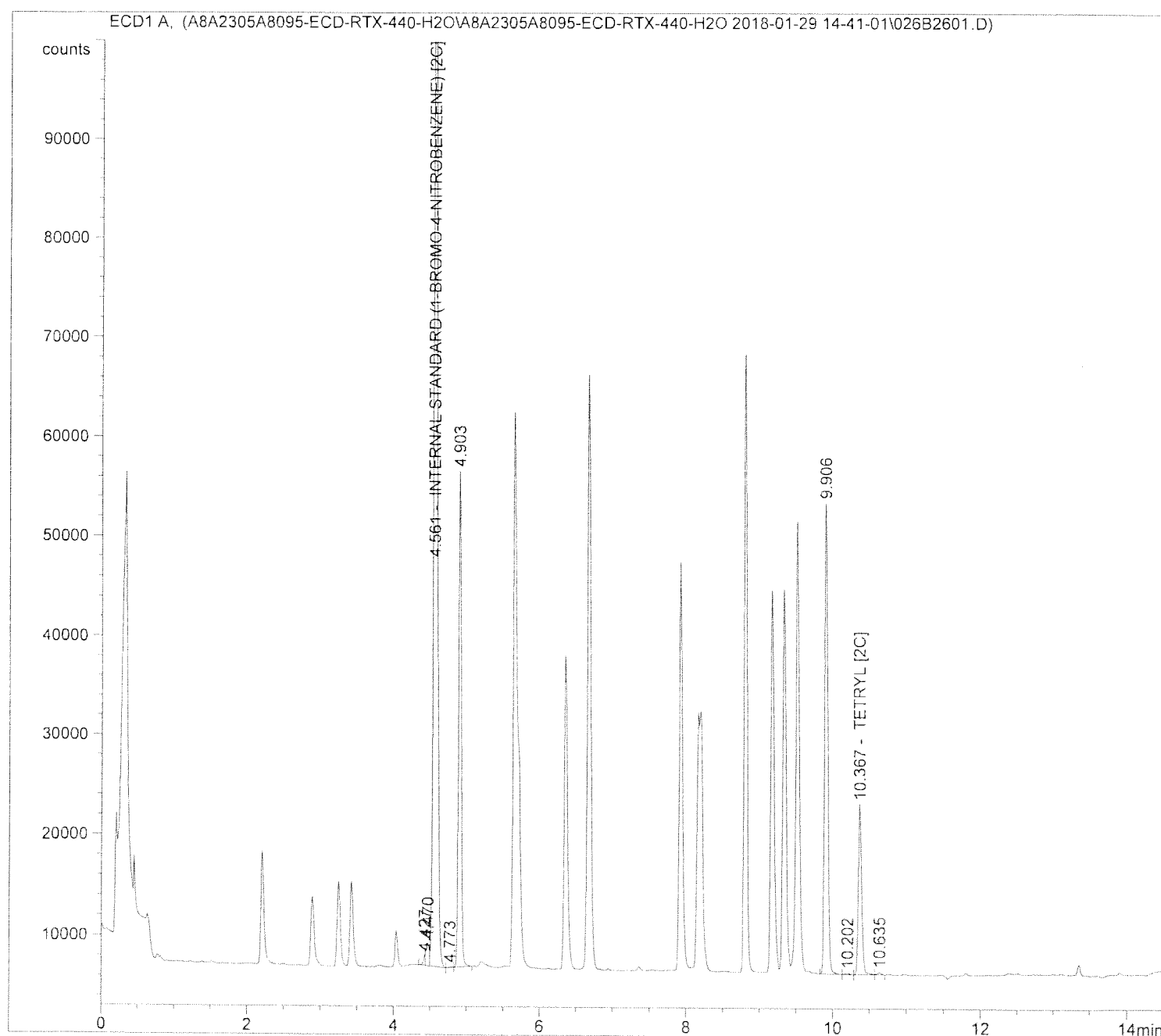
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
```

```
=====
Acq. Operator   : JJK                               Seq. Line :   26
Acq. Instrument : 3337G12416                         Location  : Vial 26
Injection Date  : 1/29/2018 11:48:34 PM              Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 CCV 0.04 ug/mL
=====
```



Internal Standard Report

Signal 1: ECD1 A.

Totals without ISTD(s) : 4.83239e-2

```
1 Warnings or Errors :
```

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Instrument ID: 3336A52146

Lab File ID: 010F1001.D.Report.TXT

Sequence: A8A2305

Lab Sample ID: A8A2305-ICV1

SDG: A180310

Project: Ashland Kenvil - Kenvil, NJ

Calibration: A180120

Calibration Date: 01/23/18 16:00

Injection Date: 01/23/18

Injection Time: 18:57

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Amino-4,6-dinitrotoluene	PR	0.04000	0.0391	52.63871	46.10081		-2.3	20
2-Amino-4,6-dinitrotoluene [2C]	PR	0.04000	0.0393	20.59942	20.6316		-1.8	20
4-Amino-2,6-dinitrotoluene	PR	0.04000	0.0389	46.79415	40.3154		-2.8	20
4-Amino-2,6-dinitrotoluene [2C]	PR	0.04000	0.0391	18.17753	17.7901		-2.1	20
3,5-Dinitroaniline	PR	0.04000	0.0373	51.99405	42.28117		-6.8	20
3,5-Dinitroaniline [2C]	PR	0.04000	0.0388	17.6581	17.54912		-2.9	20
1,3-Dinitrobenzene	PR	0.04000	0.0421	13.03999	13.18878		5.3	20
1,3-Dinitrobenzene [2C]	PR	0.04000	0.0401	9.678023	10.25707		0.2	20
2,6-Dinitrotoluene	PR	0.04000	0.0374	64.52217	54.2754		-6.5	20
2,6-Dinitrotoluene [2C]	PR	0.04000	0.0393	28.6477	28.52407		-1.7	20
2,4-Dinitrotoluene	PR	0.04000	0.0382	36.94796	31.27583		-4.4	20
2,4-Dinitrotoluene [2C]	PR	0.04000	0.0393	15.74498	15.60999		-1.7	20
HMX	PR	0.04000	0.0325	3.90633	2.547637		-18.8	20
HMX [2C]	PR	0.04000	0.0368	1.554678	1.625248		-7.9	20
Nitroglycerin	PR	0.04000	0.0385	35.42606	32.33243		-3.8	20
Nitroglycerin [2C]	PR	0.04000	0.0393	26.82404	28.13625		-1.9	20
3-Nitrotoluene	PR	0.04000	0.0396	4.748276	4.241156		-1.1	20
3-Nitrotoluene [2C]	PR	0.04000	0.0413	4.136159	4.413018		3.3	20
4-Nitrotoluene	PR	0.04000	0.0411	3.479793	3.368404		2.8	20
4-Nitrotoluene [2C]	PR	0.04000	0.0410	4.096185	4.357692		2.5	20
PETN	PR	0.04000	0.0400	16.72352	16.1496		-0.01	20
PETN [2C]	PR	0.04000	0.0389	14.20927	14.796		-2.8	20
RDX	PR	0.04000	0.0414	53.5222	56.46483		3.5	20
RDX [2C]	PR	0.04000	0.0408	26.66314	29.62736		1.9	20
Tetryl	PR	0.04000	0.0451	14.22243	20.62642		12.7	20
Tetryl [2C]	PR	0.04000	0.0456		8.075153		14.0	20
1,3,5-Trinitrobenzene	PR	0.04000	0.0418	26.16421	24.69614		4.6	20
1,3,5-Trinitrobenzene [2C]	PR	0.04000	0.0426	10.95886	12.13616		6.4	20
2,4,6-Trinitrotoluene	PR	0.04000	0.0385	49.96396	44.11019		-3.8	20
2,4,6-Trinitrotoluene [2C]	PR	0.04000	0.0394	20.73467	21.25756		-1.6	20
2,2'-Dinitrobiphenyl	PR	0.04000	0.0423	46.41094	46.40614		5.8	20

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A180310

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Instrument ID: 3336A52146

Calibration: A180120

Lab File ID: 010B1001.D.Report.TXT

Calibration Date: 01/23/18 16:00

Sequence: A8A2305

Injection Date: 01/23/18

Lab Sample ID: A8A2305-ICV1

Injection Time: 18:57

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,2'-Dinitrobiphenyl [2C]	PR	0.04000	0.0421	19.33609	22.04213		5.4	20

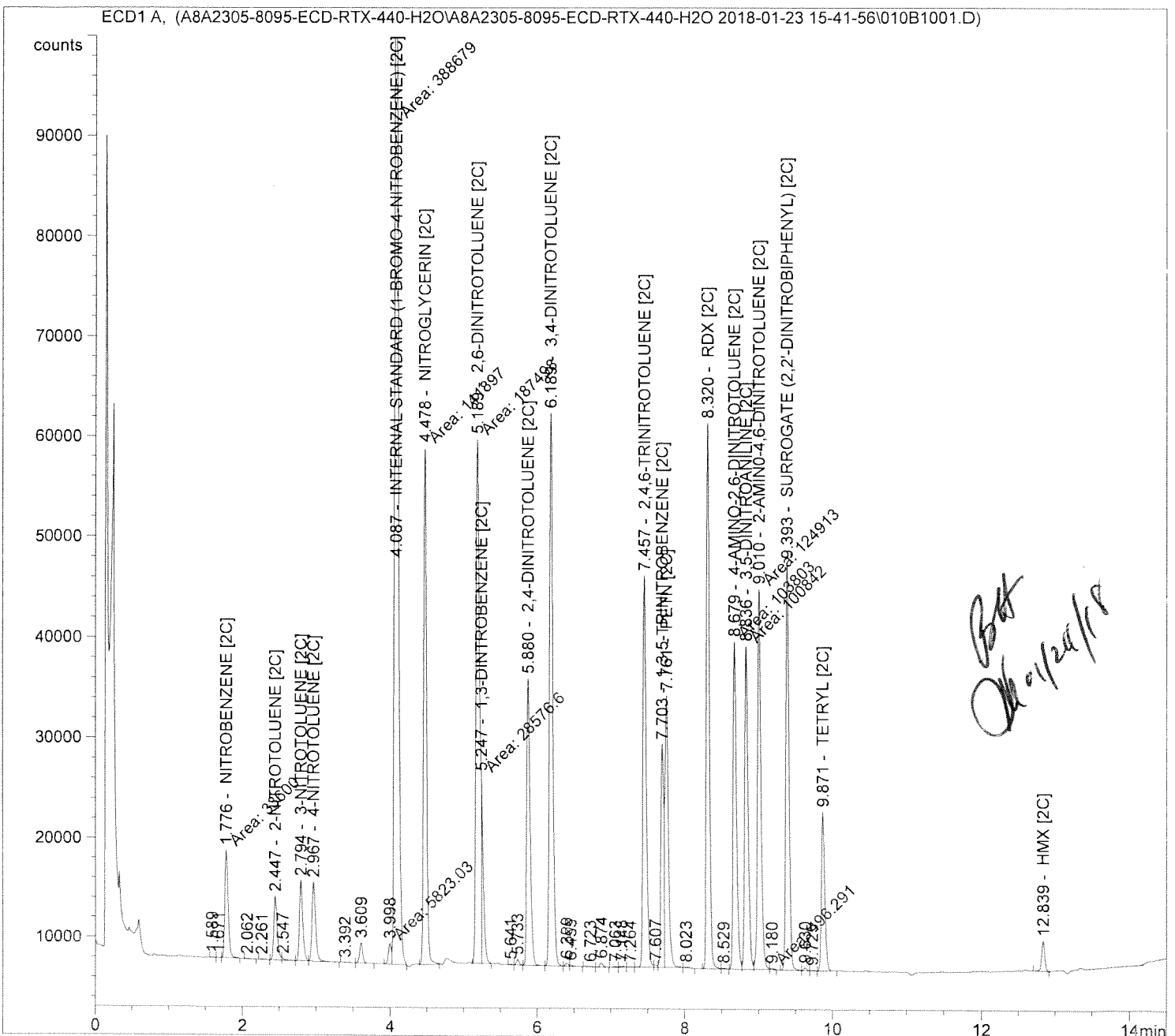
Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

=====
Acq. Operator : JJK Seq. Line : 10
Acq. Instrument : 3337G12416 Location : Vial 10
Injection Date : 1/23/2018 7:02:45 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M
Last changed : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M
Last changed : 1/24/2018 4:04:25 PM by JJK
Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
INJECTION 2 UL.

Sample Info : 8095 SS 0.04 ug/mL

=====



=====

Acq. Operator	: JJK	Seq. Line	: 10
Acq. Instrument	: 3337G12416	Location	: Vial 10
Injection Date	: 1/23/2018 7:02:45 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : 8095 SS 0.04 ug/mL

=====

Internal Standard Report

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Sorted By : Retention Time

Calib. Data Modified : Wednesday, January 24, 2018 4:04:02 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD	ISTD Amount	Name
#		
1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]

Signal 1: ECD1 A,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
1.776	1	MM	1	1.08790e4	3.48757	3.99064e-2		NITROBENZENE [2C]
2.447	1	BV	1	6428.68115	5.74555	3.88493e-2		2-NITROTOLUENE [2C]
2.794	1	VV	1	8099.68799	4.85194	4.13346e-2		3-NITROTOLUENE [2C]
2.967	1	VB	1	7998.14258	4.87537	4.10135e-2		4-NITROTOLUENE [2C]
4.087	1	FM +I	1	1.18845e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.478	1	MM	1	5.16415e4	7.22785e-1	3.92589e-2		NITROGLYCERIN [2C]
5.189	1	MF	1	5.23533e4	7.14188e-1	3.93266e-2		2,6-DINITROTOLUENE [2C]
5.247	1	FM	1	1.88259e4	2.02492	4.00953e-2		1,3-DINITROBENZENE [2C]
5.880	1	BB	1	2.86507e4	1.30446	3.93095e-2		2,4-DINITROTOLUENE [2C]
6.189	1	BB	1	5.51983e4	6.91740e-1	4.01604e-2		3,4-DINITROTOLUENE [2C]
7.457	1	BV	1	3.90163e4	9.59483e-1	3.93743e-2		2,4,6-TRINITROTOLUENE [2C]
7.703	1	VV	1	2.22748e4	1.81633	4.25537e-2		1,3,5-TRINITROBENZENE [2C]
7.761	1	VB	1	2.71567e4	1.36107	3.88764e-2		PETN [2C]
8.320	1	BV	1	5.43783e4	7.12834e-1	4.07703e-2		RDX [2C]
8.679	1	MF	1	3.26521e4	1.13995	3.91496e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.836	1	FM	1	3.22098e4	1.14611	3.88279e-2		3,5-DINITROANILINE [2C]
9.010	1	MF	1	3.78674e4	9.85732e-1	3.92603e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
9.393	1	BV +	1	4.04563e4	9.90366e-1	4.21417e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.871	1	BB	1	1.58661e4	2.64913	4.42081e-2		TETRYL [2C]

Sample Name: A8A2305-ICV1

=====

Acq. Operator	: JJK	Seq. Line	: 10
Acq. Instrument	: 3337G12416	Location	: Vial 10
Injection Date	: 1/23/2018 7:02:45 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A8A2305-8095-ECD-RTX-440-H2O\A8A2305-8095-ECD-RTX-440-H2O 2018-01-23 15-41-56\8095-ECD-RTX-440.M

Last changed : 11/9/2017 1:20:54 PM by JJK

Analysis Method : C:\CHEM32\2\METHODS\A8A2305-8095-ECD-RTX-440-H2O.M

Last changed : 1/24/2018 4:04:25 PM by JJK

Method Info : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL. INJECTION 2 UL.

Sample Info : 8095 SS 0.04 ug/mL

=====

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
12.839	1	BB	1	2982.99341	11.73723	3.68254e-2		HMX [2C]

Handwritten signature

Totals without ISTD(s) : 7.61242e-1

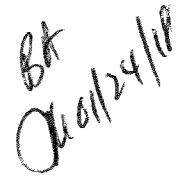
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450
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Internal Standard Report

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Signal 1: ECD1 B,

04/24/18

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Acq. Operator	: JJK	Seq. Line	: 10
Acq. Instrument	: 3336A52146	Location	: Vial 10
Injection Date	: 1/23/2018 6:57:42 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A8A2305-8095-ECD-RTX-TNT-H2O\A8A2305-8095-ECD-RTX-TNT-H2O 2018-01-23 15-42-28\8095-ECD-RTX-TNT.M		
Last changed	: 11/7/2017 12:56:57 PM by JJK		
Analysis Method	: C:\CHEM32\1\METHODS\A8A2305-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 1/24/2018 2:39:30 PM by JJK (modified after loading)		
Method Info	: Method 8095 for Explosives using an RTX-TNT 6 M BY 0.53 MM ID 1.5 MICRON FILM, (S/N 1153047/P). INJECTION 2 UL INTO A 4 MM CYCLOSPITTER LINER USING A GOLD SEAL.		
Sample Info	: 8095 SS 0.04 ug/mL		

=====

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
9.562	1	VV	1	3.78579e4	2.18501	4.50690e-2		TETRYL
12.189	1	MM	1	4675.95410	12.74927	3.24806e-2		HMX

Totals without ISTD(s) : 7.53332e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

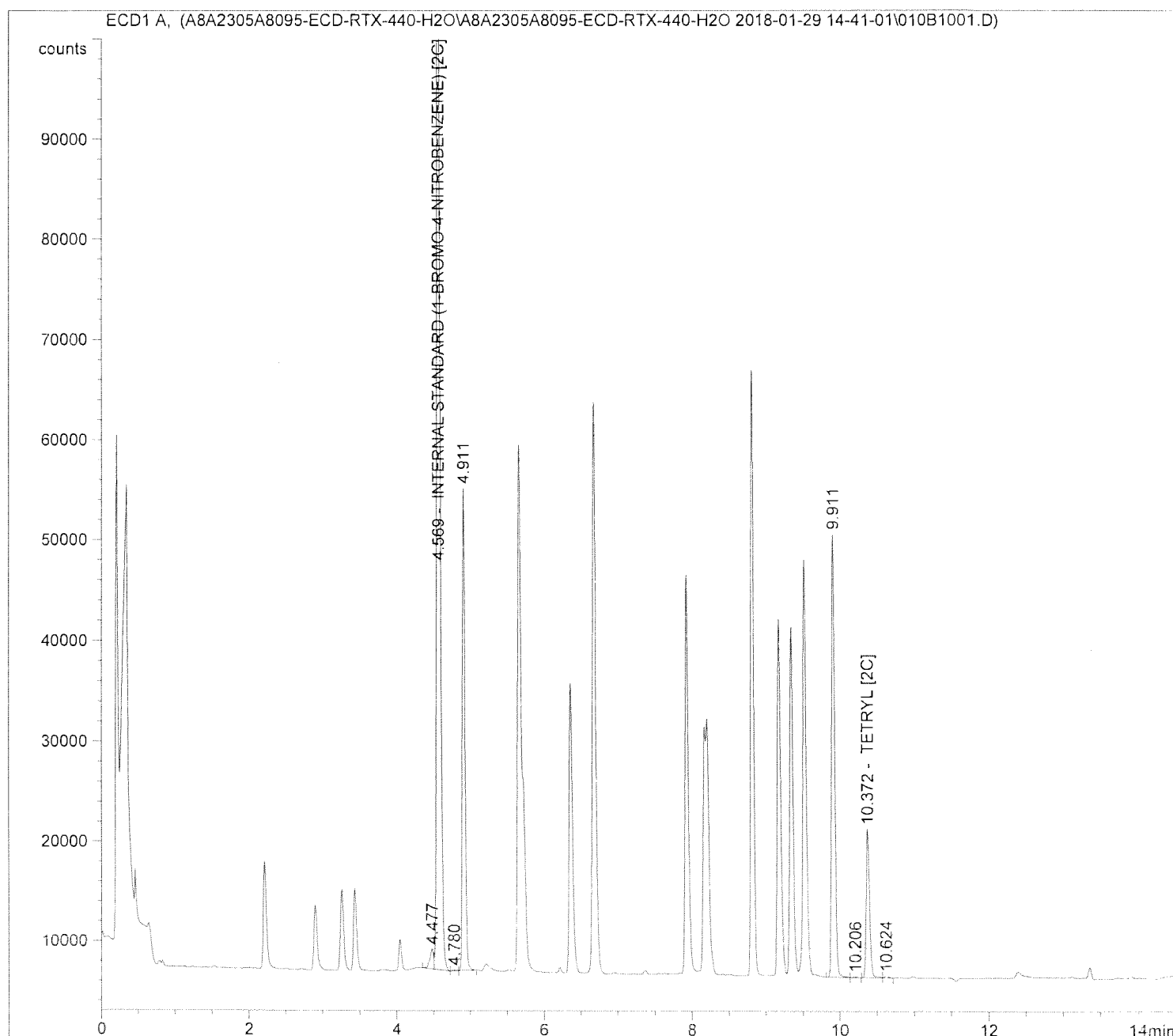
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*** End of Report ***

Sample Name: A8A2305-ICV1

```
=====
Acq. Operator   : JJK                               Seq. Line :   10
Acq. Instrument : 3337G12416                         Location  : Vial 10
Injection Date  : 1/29/2018 5:58:29 PM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.
=====
```

Sample Info : 8095 SS 0.04 ug/mL



Sample Name: A8A2305-ICV1

```

=====
Acq. Operator   : JJK                               Seq. Line :   10
Acq. Instrument : 3337G12416                         Location  : Vial 10
Injection Date  : 1/29/2018 5:58:29 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A8A2305A8095-ECD-RTX-440-H2O\A8A2305A8095-ECD-RTX-440-
                  H2O 2018-01-29 14-41-01\8095-ECD-RTX-440.M
Last changed    : 11/9/2017 1:20:54 PM by JJK
Analysis Method : C:\CHEM32\2\METHODS\A8A2305A8095-ECD-RTX-440-H2O.M
Last changed    : 1/30/2018 8:35:45 AM by JJK
Method Info     : Method 8095 for Explosives using an RTX-440 6M BY 0.53 MM ID 0.5 MICRON
                  FILM (S/A 1161164). USING CYCLOSPLITTER LINER ANND GOLD SEAL.
                  INJECTION 2 UL.

Sample Info     : 8095 SS 0.04 ug/mL
    
```

Internal Standard Report

```

Sorted By           :      Retention Time
Calib. Data Modified :      1/30/2018 8:20:33 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [] (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#
-----|-----|-----
1      1.25000e-1  INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
    
```

Signal 1: ECD1 A,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
4.569	1	VB +I	1	1.14978e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
10.372	1	BV	1	1.48212e4	2.83057	4.56093e-2		TETRYL [2C]

Totals without ISTD(s) : 4.56093e-2

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

1149.
OK
01/31/18

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison
 Client: Kennedy Jenks Consultants
 Sequence: A8A2305

SDG: A180310
 Project: Ashland Kenvil - Kenvil, NJ
 Instrument: 3336A52146
 Calibration: A180120

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Instrument Blank (A8A2305-IBL1) ug/mL				Lab File ID: 001F0101.D.ReportAnalyzed: 01/23/18 15:44				
2,2'-Dinitrobiphenyl			85.3 - 122	9.453	9.459667	-0.0067	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			86.3 - 125		9.395833	-9.3958	+/-1.000	
Instrument Blank (A8A2305-IBL2) ug/mL				Lab File ID: 002F0201.D.ReportAnalyzed: 01/23/18 16:05				
2,2'-Dinitrobiphenyl			85.3 - 122		9.459667	-9.4597	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			86.3 - 125		9.395833	-9.3958	+/-1.000	
Instrument Blank (A8A2305-IBL3) ug/mL				Lab File ID: 009F0901.D.ReportAnalyzed: 01/23/18 18:36				
2,2'-Dinitrobiphenyl			85.3 - 122	9.46	9.459667	0.0003	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			86.3 - 125		9.395833	-9.3958	+/-1.000	
Initial Cal Check (A8A2305-ICV1) ug/mL				Lab File ID: 010F1001.D.ReportAnalyzed: 01/23/18 18:57				
2,2'-Dinitrobiphenyl	0.04000	106	80 - 120	9.458	9.459667	-0.0017	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	0.04000	105	80 - 120	9.393	9.395833	-0.0028	+/-1.000	
Calibration Check (A8A2305-CCV1) ug/mL				Lab File ID: 011F1101.D.ReportAnalyzed: 01/23/18 19:19				
2,2'-Dinitrobiphenyl	0.04000	106	80 - 120	9.458	9.459667	-0.0017	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	0.04000	108	80 - 120	9.392	9.395833	-0.0038	+/-1.000	
Instrument Blank (A8A2305-IBL4) ug/mL				Lab File ID: 012F1201.D.ReportAnalyzed: 01/23/18 19:40				
2,2'-Dinitrobiphenyl			85.3 - 122	9.463	9.459667	0.0033	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			86.3 - 125		9.395833	-9.3958	+/-1.000	
Blank (A801121-BLK1) ug/L				Lab File ID: 013F1301.D.ReportAnalyzed: 01/23/18 20:02				
2,2'-Dinitrobiphenyl	1.000	108	85.3 - 122	9.459	9.459667	-0.0007	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	1.000	112	86.3 - 125	9.392	9.395833	-0.0038	+/-1.000	
PW-868-20180119 (A180310-01) ug/L				Lab File ID: 014F1401.D.ReportAnalyzed: 01/23/18 20:23				
2,2'-Dinitrobiphenyl	1.000	102	85.3 - 122	9.459	9.459667	-0.0007	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	1.000	112	86.3 - 125	9.393	9.395833	-0.0028	+/-1.000	
BD20180119 (A180310-02) ug/L				Lab File ID: 015F1501.D.ReportAnalyzed: 01/23/18 20:44				
2,2'-Dinitrobiphenyl	1.000	105	85.3 - 122	9.459	9.459667	-0.0007	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	1.000	112	86.3 - 125	9.393	9.395833	-0.0028	+/-1.000	
Matrix Spike (A801121-MS1) ug/L				Lab File ID: 016F1601.D.ReportAnalyzed: 01/23/18 21:06				
2,2'-Dinitrobiphenyl	1.000	104	85.3 - 122	9.458	9.459667	-0.0017	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	1.000	113	86.3 - 125	9.393	9.395833	-0.0028	+/-1.000	
Matrix Spike Dup (A801121-MSD1) ug/L				Lab File ID: 017F1701.D.ReportAnalyzed: 01/23/18 21:28				
2,2'-Dinitrobiphenyl	1.000	105	85.3 - 122	9.457	9.459667	-0.0027	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	1.000	114	86.3 - 125	9.393	9.395833	-0.0028	+/-1.000	
LCS (A801121-BS1) ug/L				Lab File ID: 018F1801.D.ReportAnalyzed: 01/23/18 21:49				
2,2'-Dinitrobiphenyl	1.000	110	85.3 - 122	9.457	9.459667	-0.0027	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	1.000	119	86.3 - 125	9.393	9.395833	-0.0028	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison
 Client: Kennedy Jenks Consultants
 Sequence: A8A2305

SDG: A180310
 Project: Ashland Kenvil - Kenvil, NJ
 Instrument: 3336A52146
 Calibration: A180120

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (A8A2305-CCV2) ug/mL				Lab File ID: 022F2201.D.ReportAnalyzed: 01/23/18 23:15				
2,2'-Dinitrobiphenyl	0.04000	103	80 - 120	9.458	9.459667	-0.0017	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	0.04000	109	80 - 120	9.393	9.395833	-0.0028	+/-1.000	
Instrument Blank (A8A2305-IBL5) ug/mL				Lab File ID: 025F2501.D.ReportAnalyzed: 01/24/18 00:19				
2,2'-Dinitrobiphenyl			85.3 - 122	9.458	9.459667	-0.0017	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			86.3 - 125		9.395833	-9.3958	+/-1.000	
Calibration Check (A8A2305-CCV3) ug/mL				Lab File ID: 026F2601.D.ReportAnalyzed: 01/24/18 00:41				
2,2'-Dinitrobiphenyl	0.04000	106	80 - 120	9.456	9.459667	-0.0037	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	0.04000	109	80 - 120	9.391	9.395833	-0.0048	+/-1.000	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Sequence: A8A2305

Matrix: Water

SDG: A180310

Project: Ashland Kenvil - Kenvil, NJ

Instrument: 3336A52146

Calibration: A180120

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Instrument Blank (A8A2305-IBL1)			Lab File ID: 001F0101.D.Report.TXT			Analyzed: 01/23/18 15:44			
1-Bromo-4-nitrobenzene			263114	4.29		50 - 300	-4.2900	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			119313	4.09		50 - 300	-4.0900	+/-0.50	*
Instrument Blank (A8A2305-IBL2)			Lab File ID: 002F0201.D.Report.TXT			Analyzed: 01/23/18 16:05			
1-Bromo-4-nitrobenzene			263114	4.29		50 - 300	-4.2900	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			119313	4.09		50 - 300	-4.0900	+/-0.50	*
Instrument Blank (A8A2305-IBL3)			Lab File ID: 009F0901.D.Report.TXT			Analyzed: 01/23/18 18:36			
1-Bromo-4-nitrobenzene			263114	4.29		50 - 300	-4.2900	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			119313	4.09		50 - 300	-4.0900	+/-0.50	*
Initial Cal Check (A8A2305-ICV1)			Lab File ID: 010F1001.D.Report.TXT			Analyzed: 01/23/18 18:57			
1-Bromo-4-nitrobenzene	229426	4.289	263114	4.29	87	50 - 300	-0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	118845	4.087	119313	4.09	100	50 - 300	-0.0030	+/-0.50	
Calibration Check (A8A2305-CCV1)			Lab File ID: 011F1101.D.Report.TXT			Analyzed: 01/23/18 19:19			
1-Bromo-4-nitrobenzene	265038	4.289	263114	4.29	101	50 - 300	0.0000	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	117081	4.086	119313	4.09	98	50 - 300	-0.0010	+/-0.50	
Instrument Blank (A8A2305-IBL4)			Lab File ID: 012F1201.D.Report.TXT			Analyzed: 01/23/18 19:40			
1-Bromo-4-nitrobenzene			263114	4.29		50 - 300	-4.2890	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			119313	4.09		50 - 300	-4.0860	+/-0.50	*
Blank (A801121-BLK1)			Lab File ID: 013F1301.D.Report.TXT			Analyzed: 01/23/18 20:02			
1-Bromo-4-nitrobenzene	389177	4.29	263114	4.29	148	50 - 300	0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	208273	4.088	119313	4.09	175	50 - 300	0.0020	+/-0.50	
PW-868-20180119 (A180310-01)			Lab File ID: 014F1401.D.Report.TXT			Analyzed: 01/23/18 20:23			
1-Bromo-4-nitrobenzene	440866	4.289	263114	4.29	168	50 - 300	0.0000	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	217270	4.087	119313	4.09	182	50 - 300	0.0010	+/-0.50	
BD20180119 (A180310-02)			Lab File ID: 015F1501.D.Report.TXT			Analyzed: 01/23/18 20:44			
1-Bromo-4-nitrobenzene	454287	4.289	263114	4.29	173	50 - 300	0.0000	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	226276	4.087	119313	4.09	190	50 - 300	0.0010	+/-0.50	
Matrix Spike (A801121-MS1)			Lab File ID: 016F1601.D.Report.TXT			Analyzed: 01/23/18 21:06			
1-Bromo-4-nitrobenzene	424843	4.288	263114	4.29	161	50 - 300	-0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	227638	4.087	119313	4.09	191	50 - 300	0.0010	+/-0.50	
Matrix Spike Dup (A801121-MSD1)			Lab File ID: 017F1701.D.Report.TXT			Analyzed: 01/23/18 21:28			
1-Bromo-4-nitrobenzene	468040	4.289	263114	4.29	178	50 - 300	0.0000	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	221934	4.087	119313	4.09	186	50 - 300	0.0010	+/-0.50	
LCS (A801121-BS1)			Lab File ID: 018F1801.D.Report.TXT			Analyzed: 01/23/18 21:49			
1-Bromo-4-nitrobenzene	418268	4.288	263114	4.29	159	50 - 300	-0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	225181	4.088	119313	4.09	189	50 - 300	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Sequence: A8A2305

Matrix: Water

SDG: A180310

Project: Ashland Kenvil - Kenvil, NJ

Instrument: 3336A52146

Calibration: A180120

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (A8A2305-CCV2)			Lab File ID: 022F2201.D.Report.TXT			Analyzed: 01/23/18 23:15			
1-Bromo-4-nitrobenzene	246043	4.289	263114	4.29	94	50 - 300	0.0000	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	128773	4.089	119313	4.09	108	50 - 300	0.0030	+/-0.50	
Instrument Blank (A8A2305-IBL5)			Lab File ID: 025F2501.D.Report.TXT			Analyzed: 01/24/18 00:19			
1-Bromo-4-nitrobenzene			263114	4.29		50 - 300	-4.2890	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			119313	4.09		50 - 300	-4.0890	+/-0.50	*
Calibration Check (A8A2305-CCV3)			Lab File ID: 026F2601.D.Report.TXT			Analyzed: 01/24/18 00:41			
1-Bromo-4-nitrobenzene	262003	4.288	263114	4.29	100	50 - 300	-0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	136563	4.086	119313	4.09	114	50 - 300	-0.0030	+/-0.50	

