



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

November 20, 2017

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**
890 Route 46
Kenvil, Roxbury Township, Morris County
Block 5301, Lot 7
Sampling Date: October 24, 2017

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 October 16, 2017 sent to Mr. Frank Amato (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,

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 (Township, Boro or City)

County: Morris Zip Code: 07847

Program Interest (PI) Number(s): 000741 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: 10/24/2017
Analytical Method(s) USEPA SW846 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.
No validation qualifiers were added. Data is acceptable as reported.
8. Were qualified data used? ☐ Yes ☒ No
9. Were rejections noted in the non-conformance summary? ☐ Yes ☒ No
Provide a brief explanation.
No validation qualifiers were added. Data is acceptable as reported.

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:

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

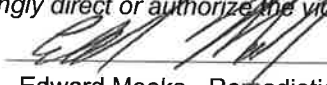
Mailing Address: Hercules Research Center, 500 Hercules Road, Building 8145

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: 11/15/17

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: New Jersey 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: 11/15/17LSRP 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: Monday, November 20, 2017 5:24 PM
To: Kiersten Robbins
Subject: 000741, LSR120001, E94632, HB218460, (Directory: 2017PW) - 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 (11/20/2017 9:23:00 AM) with the subjectline "14794, 000741".

The following identifiers were in the DTST file:

- Directory: 2017PW
- DESC: Ashland Kenvil
- SRPID: E94632
- Submit Date: 11/16/2017 0:00:00

This submission has been issued an SRP Catalog ID: HB218460

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_4850
Sub ID: SUB_48090

Exhibit 3

Notification Package Dated November 15, 2017



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

NOVEMBER 15, 2017

Frank Amato
890 Route 46
Kenvil, New Jersey 07847

Subject: Potable Well Sampling Results at:
890 Route 46
Kenvil, Roxbury Township, Morris County
Block 5301, Lot 7
Sampling Date: October 24, 2017

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. Amato,

On behalf of Hercules, LLC (Hercules) please find attached a copy of the laboratory results generated from the potable water sample collected on October 24, 2017 from the residential property potable well at 890 Route 46 in Kenvil, Roxbury Township, Morris County, New Jersey.

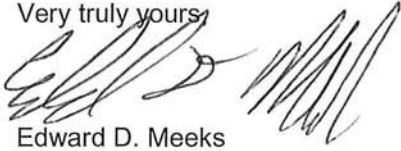
The potable well sample was collected in compliance with New Jersey Department of Environmental (NJDEP) guidance as part of the on-going environmental investigation/remediation of the Hercules property. Specifically, the potable well sample was collected to verify that the site related compounds are 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 'EDMEEKS', 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: A174306



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical - Madison

SDG: A174306

Report Prepared: 11/13/2017

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	12/31/2017
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	11/30/2017
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Case Narrative

CASE NARRATIVE

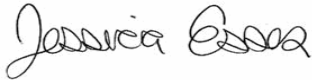
Sample Receipt Information:

2 samples were received on 10/25/2017. Samples were received at 1.6 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.

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:

11/13/2017

Title:

Project Manager

ANALYSES DATA PACKAGE COVER PAGE

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Client Sample Id:

PW-890-102417

BD102417

Lab Sample Id:

A174306-01

A174306-02

Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
U	Analyte included in the analysis, but not detected
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: A174306

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

ORGANIC ANALYSIS DATA SHEET

PW-890-102417

Laboratory: Pace Analytical - Madison SDG: A174306
 Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
 Matrix: Water Laboratory ID: A174306-01 File ID: 015F1501.D.Report.TXT
 Sampled: 10/24/17 10:15 Prepared: 10/30/17 08:20 Analyzed: 10/31/17 23:55
 Solids: Preparation: EPA 3511 Initial/Final: 400 mL / 10 mL
 Batch: A710097 Sequence: A7J3102 Calibration: A171102 Instrument: 3336A52146

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
35572-78-2	2-Amino-4,6-dinitrotoluene	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	1	0.025	U
606-20-2	2,6-Dinitrotoluene	1	0.025	U
121-14-2	2,4-Dinitrotoluene [2C]	1	0.025	U
2691-41-0	HMX	1	0.025	U
55-63-0	Nitroglycerin	1	0.025	U
99-08-1	3-Nitrotoluene	1	0.025	U
99-99-0	4-Nitrotoluene	1	0.025	U
78-11-5	PETN [2C]	1	0.025	U
121-82-4	RDX	1	0.025	U
479-45-8	Tetryl	1	0.025	U
99-35-4	1,3,5-Trinitrobenzene	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	2.500	2.79	112	60 - 140	
2,2'-Dinitrobiphenyl [2C]	2.500	2.59	104	60 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1-Bromo-4-nitrobenzene	331840	4.343	179863	4.344	
1-Bromo-4-nitrobenzene [2C]	185247	3.798	103514	3.799	

=====

Acq. Operator	: JJK	Seq. Line	: 15
Acq. Instrument	: 3336A52146	Location	: Vial 15
Injection Date	: 10/31/2017 11:55:47 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

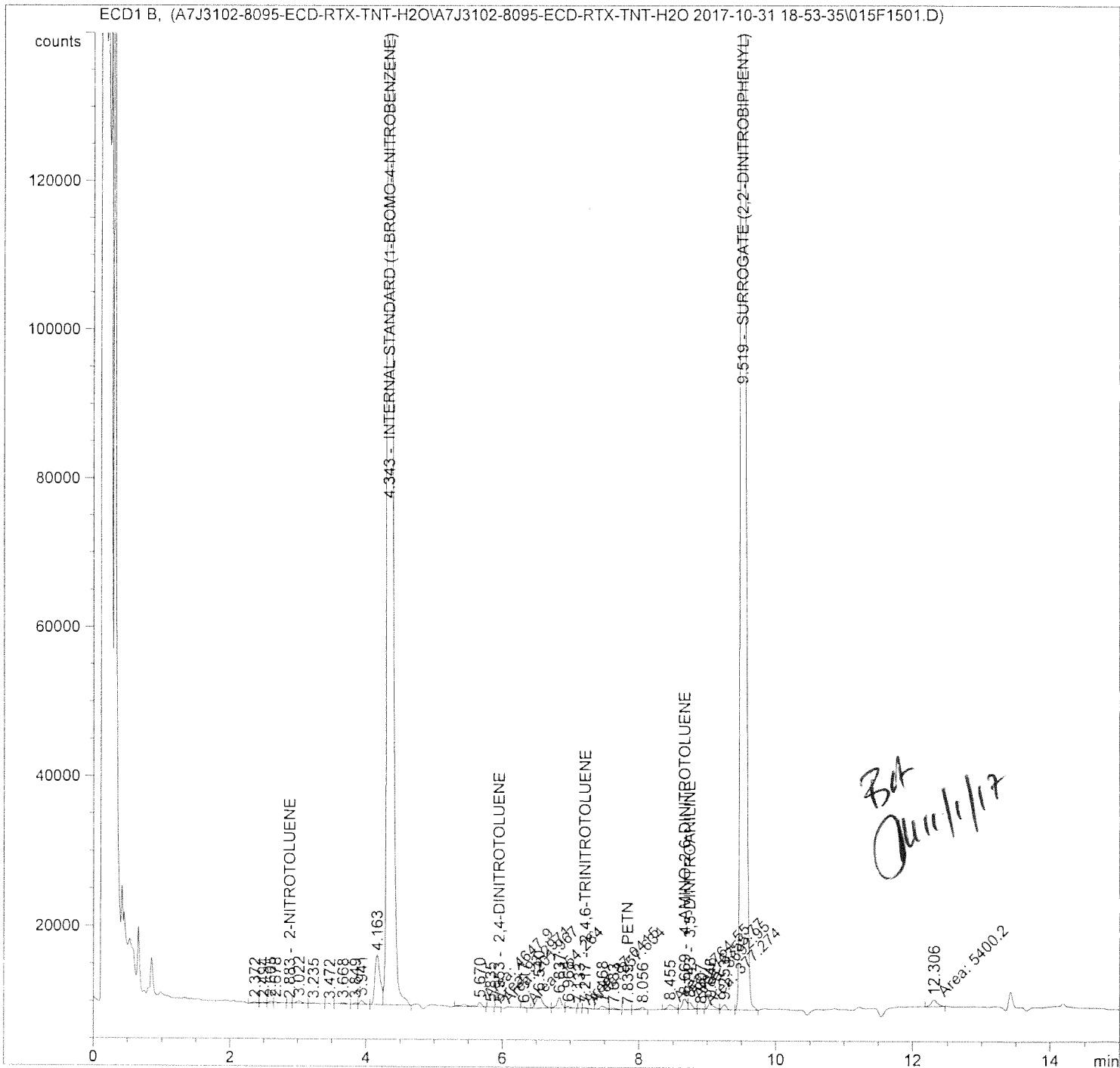
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 15
Acq. Instrument	: 3336A52146	Location	: Vial 15
Injection Date	: 10/31/2017 11:55:47 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)
---	------------	--

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.207	1		1	-	-	-		NITROBENZENE
2.883	1	BV	1	34.66349	13.82339	1.80496e-4		2-NITROTOLUENE
3.214	1		1	-	-	-		3-NITROTOLUENE
3.361	1		1	-	-	-		4-NITROTOLUENE
4.343	1	VB +I	1	3.31840e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.628	1		1	-	-	-		NITROGLYCERIN
5.252	1		1	-	-	-		1,3-DINITROBENZENE
5.386	1		1	-	-	-		2,6-DINITROTOLUENE
5.953	1	MM	1	66.68034	4.20747e-1	1.05682e-5		2,4-DINITROTOLUENE
6.345	1		1	-	-	-		3,4-DINITROTOLUENE
7.033	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.217	1	MM	1	80.07517	3.59065e-1	1.08306e-5		2,4,6-TRINITROTOLUENE
7.839	1	BV	1	50.59452	8.72938e-1	1.66367e-5		PETN
8.144	1		1	-	-	-		RDX
8.669	1	FM	1	1356.69177	5.35507e-1	2.73670e-4		4-AMINO-2,6-DINITROTOLUENE "B" (JH)
8.743	1	FM	1	918.57404	4.15022e-1	1.43604e-4		3,5-DINITROANILINE
9.002	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.519	1	BB +	1	2.91522e5	1.01548	1.11513e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.615	1		1	-	-	-		TETRYL
12.240	1		1	-	-	-		HMX

Totals without ISTD(s) : 1.12149e-1

Sample Name: A174306-01

```
=====
Acq. Operator   : JJK                               Seq. Line :   15
Acq. Instrument : 3336A52146                         Location  : Vial 15
Injection Date  : 10/31/2017 11:55:47 PM             Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====
```

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	: 15
Acq. Instrument	: 3337G12416	Location	: Vial 15
Injection Date	: 11/1/2017 12:03:10 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

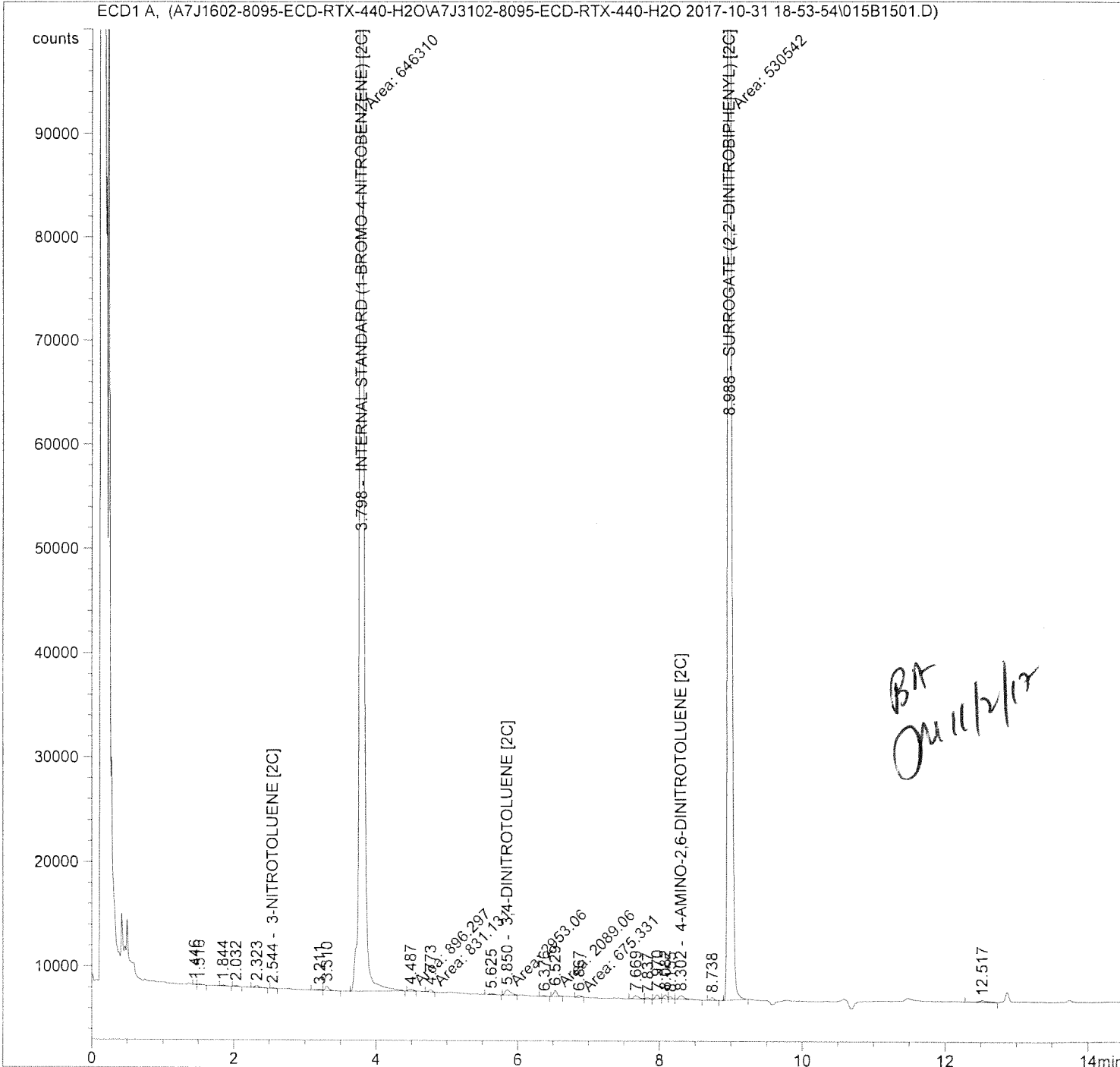
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 15
Acq. Instrument	: 3337G12416	Location	: Vial 15
Injection Date	: 11/1/2017 12:03:10 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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
1.567	1		1	-	-	-		NITROBENZENE [2C]
2.211	1		1	-	-	-		2-NITROTOLUENE [2C]
2.544	1	BB	1	33.72848	2.75773	6.27634e-5		3-NITROTOLUENE [2C]
2.714	1		1	-	-	-		4-NITROTOLUENE [2C]
3.798	1	MM +I	1	1.85247e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.202	1		1	-	-	-		NITROGLYCERIN [2C]
4.877	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
4.937	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.554	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
5.850	1	MM	1	521.10938	3.38377e-1	1.18984e-4		3,4-DINITROTOLUENE [2C]
7.108	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.350	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.418	1		1	-	-	-		PETN [2C]
7.948	1		1	-	-	-		RDX [2C]
8.302	1	BB	1	336.26508	5.51609e-1	1.25162e-4		4-AMINO-2,6-DINITROTOLUENE [2C]
8.459	1		1	-	-	-		3,5-DINITROANILINE [2C]
8.624	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
8.988	1	MM +	1	1.59602e5	9.61358e-1	1.03534e-1		SURROGATE (2,2'-DINITROBIPHENYL) [2C]
9.473	1		1	-	-	-		TETRYL [2C]
12.388	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 1.03841e-1

=====

Acq. Operator	: JJK	Seq. Line	: 15
Acq. Instrument	: 3337G12416	Location	: Vial 15
Injection Date	: 11/1/2017 12:03:10 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

2 Warnings or Errors :

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

=====

*** End of Report ***

ORGANIC ANALYSIS DATA SHEET

BD102417

Laboratory: Pace Analytical - Madison SDG: A174306
 Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
 Matrix: Water Laboratory ID: A174306-02 File ID: 016F1601.D.Report.TXT
 Sampled: 10/24/17 00:00 Prepared: 10/30/17 08:20 Analyzed: 11/01/17 00:17
 Solids: Preparation: EPA 3511 Initial/Final: 400 mL / 10 mL
 Batch: A710097 Sequence: A7J3102 Calibration: A171102 Instrument: 3336A52146

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
35572-78-2	2-Amino-4,6-dinitrotoluene	1	0.025	U
19406-51-0	4-Amino-2,6-dinitrotoluene [2C]	1	0.050	U
618-87-1	3,5-Dinitroaniline	1	0.025	U
99-65-0	1,3-Dinitrobenzene	1	0.025	U
606-20-2	2,6-Dinitrotoluene	1	0.025	U
121-14-2	2,4-Dinitrotoluene [2C]	1	0.025	U
2691-41-0	HMX	1	0.025	U
55-63-0	Nitroglycerin	1	0.025	U
99-08-1	3-Nitrotoluene	1	0.025	U
99-99-0	4-Nitrotoluene	1	0.025	U
78-11-5	PETN	1	0.025	U
121-82-4	RDX	1	0.025	U
479-45-8	Tetryl	1	0.025	U
99-35-4	1,3,5-Trinitrobenzene	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	2.500	2.72	109	60 - 140	
2,2'-Dinitrobiphenyl [2C]	2.500	2.61	104	60 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1-Bromo-4-nitrobenzene	351311	4.343	179863	4.344	
1-Bromo-4-nitrobenzene [2C]	180096	3.8	103514	3.799	

=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3336A52146	Location	: Vial 16
Injection Date	: 11/1/2017 12:17:26 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

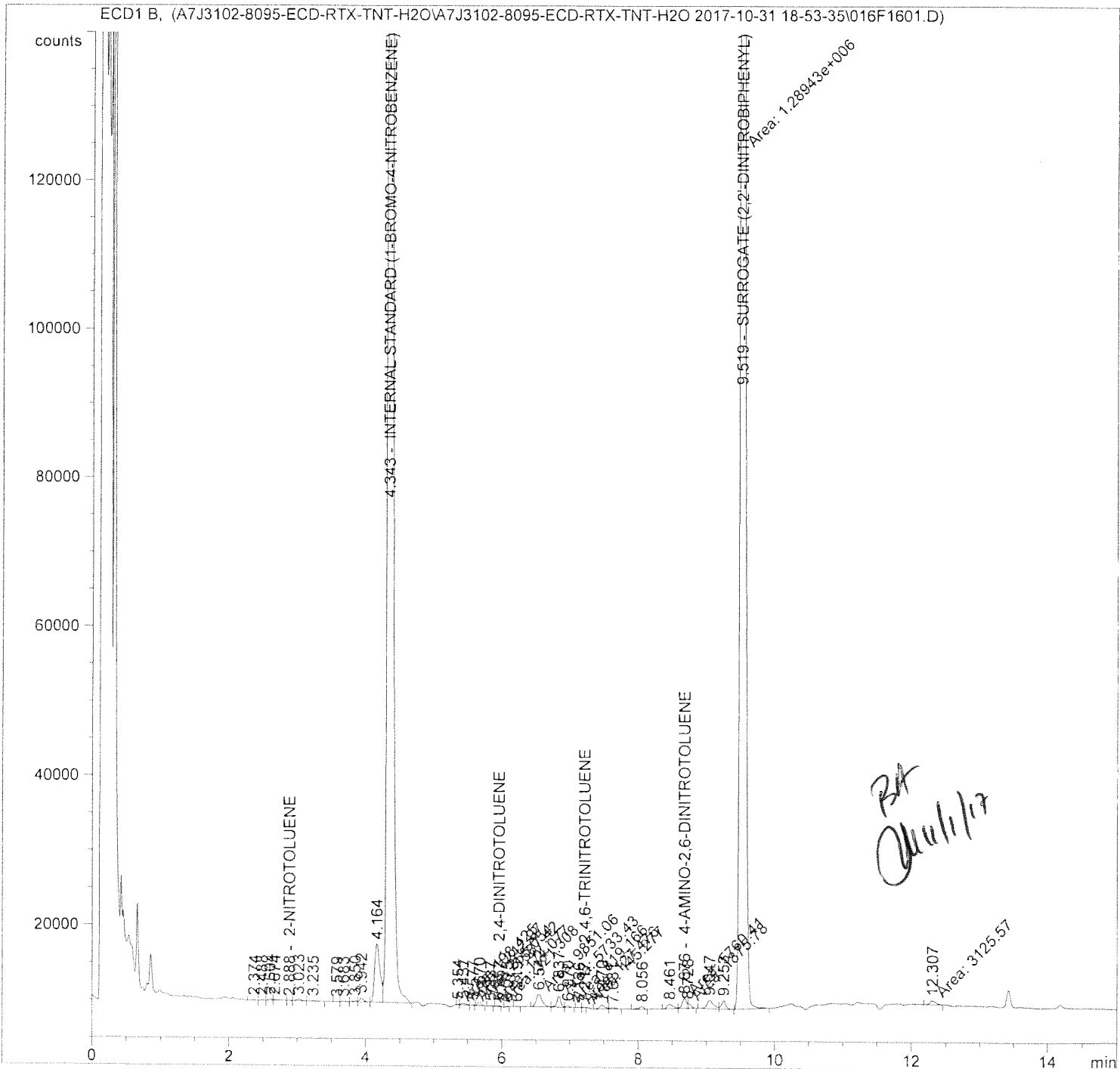
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3336A52146	Location	: Vial 16
Injection Date	: 11/1/2017 12:17:26 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.208	1		1	-	-	-		NITROBENZENE
2.888	1	BV	1	30.60160	13.74827	1.49696e-4		2-NITROTOLUENE
3.215	1		1	-	-	-		3-NITROTOLUENE
3.362	1		1	-	-	-		4-NITROTOLUENE
4.343	1	VB +I	1	3.51311e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.629	1		1	-	-	-		NITROGLYCERIN
5.252	1		1	-	-	-		1,3-DINITROBENZENE
5.386	1		1	-	-	-		2,6-DINITROTOLUENE
5.957	1	MM	1	84.16027	4.32323e-1	1.29459e-5		2,4-DINITROTOLUENE
6.346	1		1	-	-	-		3,4-DINITROTOLUENE
7.033	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.217	1	MM	1	50.90438	3.37316e-1	6.10956e-6		2,4,6-TRINITROTOLUENE
7.824	1		1	-	-	-		PETN
8.144	1		1	-	-	-		RDX
8.676	1	MF	1	1306.26306	5.27999e-1	2.45404e-4		4-AMINO-2,6-DINITROTOLUENE
8.752	1		1	-	-	-		3,5-DINITROANILINE
9.002	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.519	1	MM +	1	3.02134e5	1.01390	1.08996e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.615	1		1	-	-	-		TETRYL
12.240	1		1	-	-	-		HMX

Totals without ISTD(s) : 1.09410e-1

=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3336A52146	Location	: Vial 16
Injection Date	: 11/1/2017 12:17:26 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

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	: 16
Acq. Instrument	: 3337G12416	Location	: Vial 16
Injection Date	: 11/1/2017 12:25:19 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

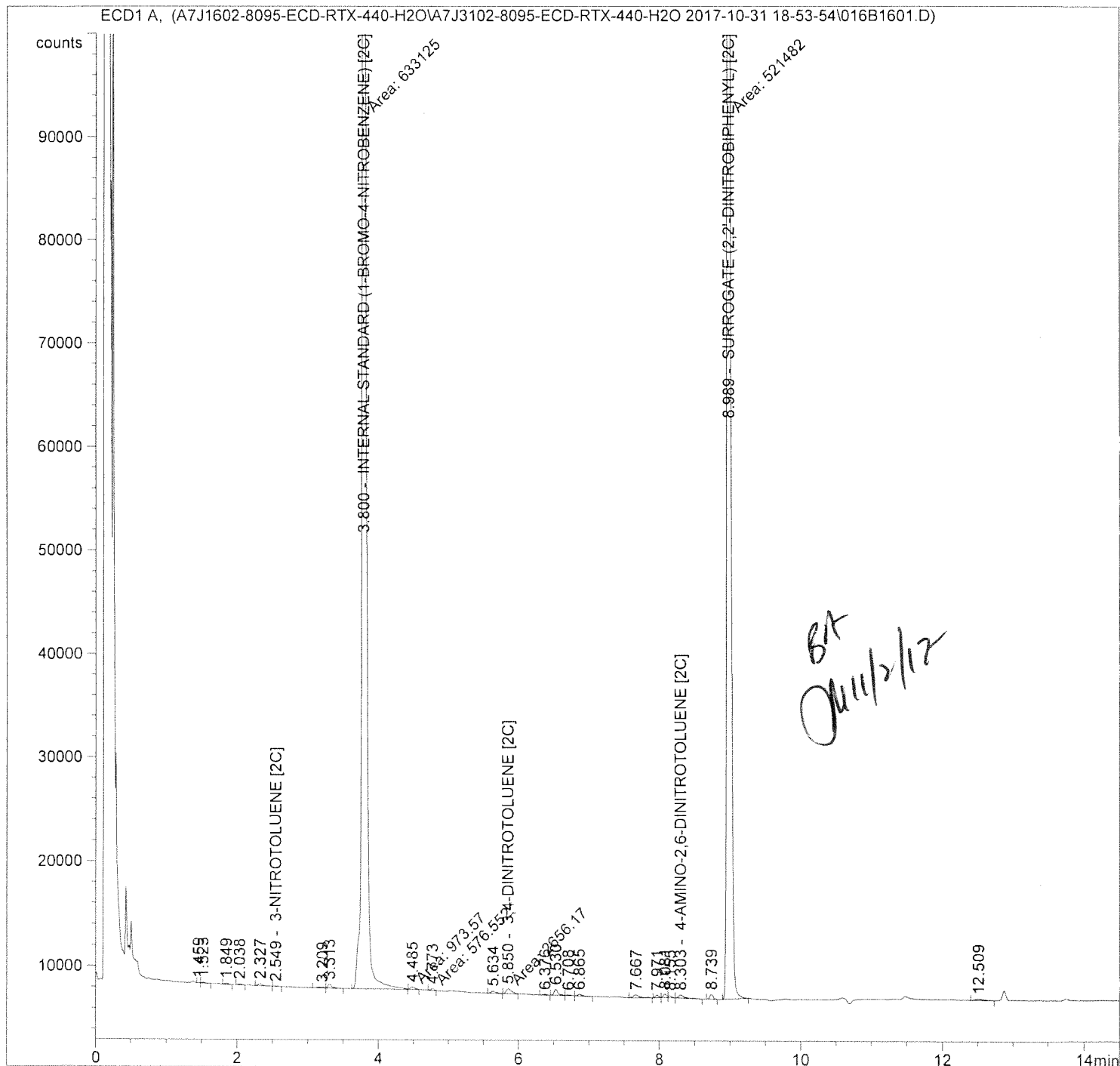
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 16
Acq. Instrument	: 3337G12416	Location	: Vial 16
Injection Date	: 11/1/2017 12:25:19 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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
1.567	1		1	-	-	-		NITROBENZENE [2C]
2.213	1		1	-	-	-		2-NITROTOLUENE [2C]
2.549	1	BB	1	37.81861	2.79398	7.33390e-5		3-NITROTOLUENE [2C]
2.715	1		1	-	-	-		4-NITROTOLUENE [2C]
3.800	1	MM +I	1	1.80096e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.204	1		1	-	-	-		NITROGLYCERIN [2C]
4.879	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
4.938	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.555	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
5.850	1	MM	1	471.19363	3.35021e-1	1.09567e-4		3,4-DINITROTOLUENE [2C]
7.109	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.351	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.420	1		1	-	-	-		PETN [2C]
7.949	1		1	-	-	-		RDX [2C]
8.303	1	BB	1	306.46765	5.47121e-1	1.16379e-4		4-AMINO-2,6-DINITROTOLUENE [2C]
8.460	1		1	-	-	-		3,5-DINITROANILINE [2C]
8.625	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
8.989	1	MM +	1	1.56385e5	9.61533e-1	1.04368e-1		SURROGATE (2,2'-DINITROBIPHENYL) [2C]
9.474	1		1	-	-	-		TETRYL [2C]
12.389	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 1.04667e-1

```
=====
Acq. Operator   : JJK                      Seq. Line :   16
Acq. Instrument : 3337G12416              Location  : Vial 16
Injection Date  : 11/1/2017 12:25:19 AM    Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
```

=====

2 Warnings or Errors :

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

=====

*** End of Report ***

PREPARATION BATCH SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Batch: A710097

Batch Matrix: Water

Preparation: EPA 3511

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
PW-890-102417	A174306-01	10/30/17 08:20	400.00	10.00
BD102417	A174306-02	10/30/17 08:20	400.00	10.00
Blank	A710097-BLK1	10/30/17 08:20	400.00	10.00
Blank	A710097-BLK2	10/30/17 08:20	400.00	10.00
LCS	A710097-BS1	10/30/17 08:20	400.00	10.00
LCS Dup	A710097-BSD1	10/30/17 08:20	400.00	10.00

PREPARATION BENCH SHEET

A710097

Pace Analytical - Madison

inted: 10/30/2017 4:00:30PM

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
A174306-01	8095 ECD Full List	10/30/2017 08:20	400	10				100	PW-890-102417	report to RL
A174306-02	8095 ECD Full List	10/30/2017 08:20	400	10				100	BD102417	report to RL
A710097-BLK1 QC		10/30/2017 08:20	400	10				100	Blank	ACROS WATER
A710097-BLK2 QC		10/30/2017 08:20	400	10				100	Blank	TAP DI SOURCE WATER
A710097-BS1 QC		10/30/2017 08:20	400	10	A701404		100	100	LCS	TAP DI SOURCE WATER
A710097-BSD1 QC		10/30/2017 08:20	400	10	A701404		100	100	LCS Dup	TAP DI SOURCE WATER
Balance ID 24	Dispenser Checked? Yes	Turbovap Temperature Checked? NA	(VOCs Only) pH <2 NA							
Pipette Used NA	Repeater Used NA	Syringe(s) Used SYR0010,SYR0223								

Reagents:

<u>Standard Number</u>	<u>Description</u>	<u>Lot Number</u>
A701125	Sodium Chloride	16J065213
A701267	Ethyl Acetate	57115

NOTE I.S. ADDED TO ALL SAMPLES PRIOR TO EXTRACTION 250 UL OF A701380 AT 5.0 UG/ML

Spiked By *David Bal* Date 10/30/17 Responsible Party *David Bal* Date 10/30/17

METHOD BLANK DATA SHEET

EPA 8095

Laboratory: <u>Pace Analytical - Madison</u>	SDG: <u>A174306</u>	
Client: <u>Kennedy Jenks Consultants</u>	Project: <u>Ashland Kenvil - Kenvil, NJ</u>	
Matrix: <u>Water</u>	Laboratory ID: <u>A710097-BLK1</u>	File ID: <u>013F1301.D.Report.TXT</u>
Prepared: <u>10/30/17 08:20</u>	Preparation: <u>EPA 3511</u>	Initial/Final: <u>400 mL / 10 mL</u>
Analyzed: <u>10/31/17 23:13</u>	Instrument: <u>3336A52146</u>	
Batch: <u>A710097</u>	Sequence: <u>A7J3102</u>	Calibration: <u>A171102</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
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METHOD BLANK DATA SHEET

EPA 8095

Laboratory: Pace Analytical - Madison SDG: A174306
Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
Matrix: Water Laboratory ID: A710097-BLK1 File ID: 013F1301.D.Report.TXT
Prepared: 10/30/17 08:20 Preparation: EPA 3511 Initial/Final: 400 mL / 10 mL
Analyzed: 10/31/17 23:13 Instrument: 3336A52146
Batch: A710097 Sequence: A7J3102 Calibration: A171102

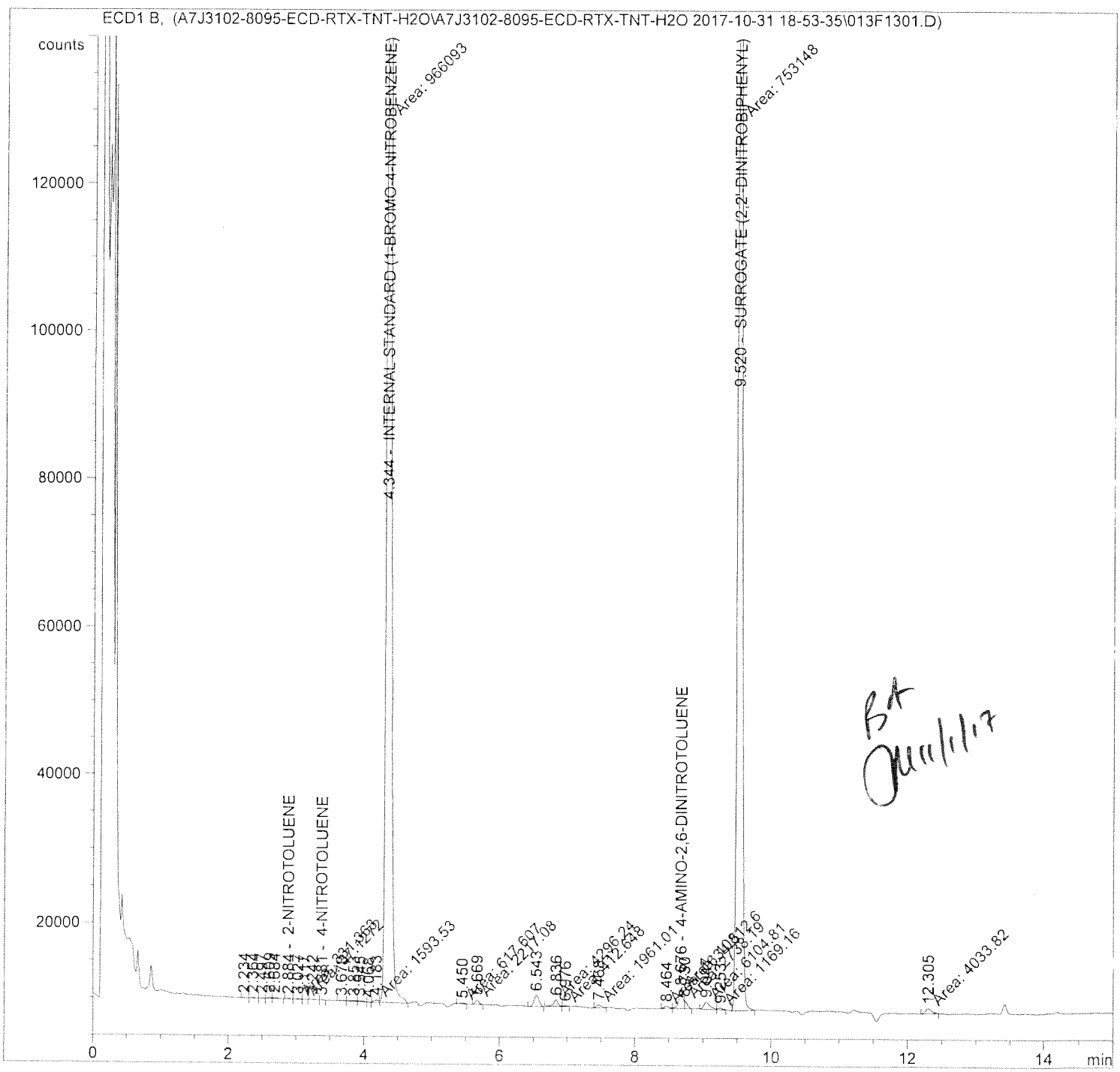
SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,2'-Dinitrobiphenyl	2.500	2.44	97.6	60 - 140	
2,2'-Dinitrobiphenyl [2C]	2.500	2.71	108	60 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1-Bromo-4-nitrobenzene	232577	4.344	179863	4.344	
1-Bromo-4-nitrobenzene [2C]	182186	3.792	103514	3.799	

=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3336A52146	Location	: Vial 13
Injection Date	: 10/31/2017 11:13:12 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====



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Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3336A52146	Location	: Vial 13
Injection Date	: 10/31/2017 11:13:12 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.208	1		1	-	-	-		NITROBENZENE
2.884	1	BV	1	85.87958	14.35704	6.62671e-4		2-NITROTOLUENE
3.215	1		1	-	-	-		3-NITROTOLUENE
3.381	1	VB	1	27.53113	10.35550	1.53228e-4		4-NITROTOLUENE
4.344	1	FM +I	1	2.32577e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.629	1		1	-	-	-		NITROGLYCERIN
5.253	1		1	-	-	-		1,3-DINITROBENZENE
5.387	1		1	-	-	-		2,6-DINITROTOLUENE
5.952	1		1	-	-	-		2,4-DINITROTOLUENE
6.346	1		1	-	-	-		3,4-DINITROTOLUENE
7.034	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.200	1		1	-	-	-		2,4,6-TRINITROTOLUENE
7.825	1		1	-	-	-		PETN
8.145	1		1	-	-	-		RDX
8.676	1	FM	1	2427.44482	6.15638e-1	8.03189e-4		4-AMINO-2,6-DINITROTOLUENE
8.753	1		1	-	-	-		3,5-DINITROANILINE
9.003	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.520	1	MM +	1	1.80483e5	1.00627	9.76093e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.616	1		1	-	-	-		TETRYL
12.241	1		1	-	-	-		HMX

Totals without ISTD(s) : 9.92284e-2

```
=====
Acq. Operator   : JJK                      Seq. Line :   13
Acq. Instrument : 3336A52146                Location  : Vial 13
Injection Date  : 10/31/2017 11:13:12 PM    Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====
```

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	: 3337G12416	Location	: Vial 13
Injection Date	: 10/31/2017 11:19:31 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

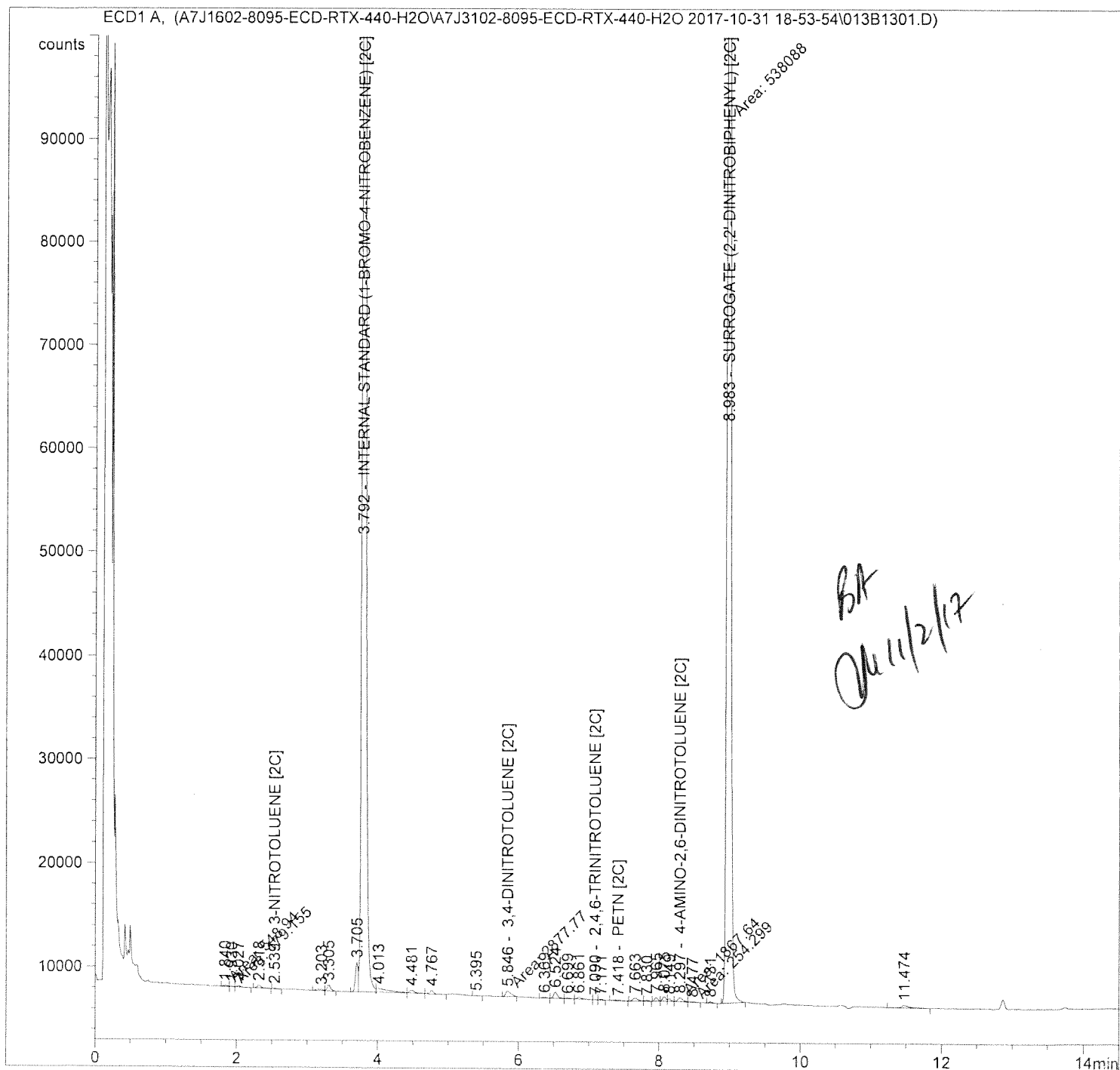
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 13
Acq. Instrument	: 3337G12416	Location	: Vial 13
Injection Date	: 10/31/2017 11:19:31 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Thursday, November 02, 2017 10:42:21 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			
1.564	1		1	-	-	-		NITROBENZENE [2C]
2.208	1		1	-	-	-		2-NITROTOLUENE [2C]
2.539	1	BB	1	44.45776	2.83266	8.64046e-5		3-NITROTOLUENE [2C]
2.710	1		1	-	-	-		4-NITROTOLUENE [2C]
3.792	1	VV +I	1	1.82186e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.197	1		1	-	-	-		NITROGLYCERIN [2C]
4.872	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
4.931	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.548	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
5.846	1	MM	1	532.41559	3.40155e-1	1.24257e-4		3,4-DINITROTOLUENE [2C]
7.090	1	BV	1	26.75952	5.27647e-1	9.68759e-6		2,4,6-TRINITROTOLUENE [2C]
7.344	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.418	1	BB	1	56.28193	9.75418e-1	3.76664e-5		PETN [2C]
7.943	1		1	-	-	-		RDX [2C]
8.297	1	MF	1	365.11069	5.58557e-1	1.39922e-4		4-AMINO-2,6-DINITROTOLUENE [2C]
8.454	1		1	-	-	-		3,5-DINITROANILINE [2C]
8.618	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
8.983	1	MM +	1	1.63961e5	9.62330e-1	1.08257e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.467	1		1	-	-	-		TETRYL [2C]
12.381	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 1.08655e-1

11/2/17

Sample Name: A710097-BLK1

```
=====
Acq. Operator   : JJK                               Seq. Line :   13
Acq. Instrument : 3337G12416                         Location  : Vial 13
Injection Date  : 10/31/2017 11:19:31 PM              Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
=====
```

2 Warnings or Errors :

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

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

METHOD BLANK DATA SHEET

EPA 8095

Laboratory: <u>Pace Analytical - Madison</u>	SDG: <u>A174306</u>	
Client: <u>Kennedy Jenks Consultants</u>	Project: <u>Ashland Kenvil - Kenvil, NJ</u>	
Matrix: <u>Water</u>	Laboratory ID: <u>A710097-BLK2</u>	File ID: <u>014F1401.D.Report.TXT</u>
Prepared: <u>10/30/17 08:20</u>	Preparation: <u>EPA 3511</u>	Initial/Final: <u>400 mL / 10 mL</u>
Analyzed: <u>10/31/17 23:34</u>	Instrument: <u>3336A52146</u>	
Batch: <u>A710097</u>	Sequence: <u>A7J3102</u>	Calibration: <u>A171102</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
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METHOD BLANK DATA SHEET

EPA 8095

Laboratory: Pace Analytical - Madison SDG: A174306
Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
Matrix: Water Laboratory ID: A710097-BLK2 File ID: 014F1401.D.Report.TXT
Prepared: 10/30/17 08:20 Preparation: EPA 3511 Initial/Final: 400 mL / 10 mL
Analyzed: 10/31/17 23:34 Instrument: 3336A52146
Batch: A710097 Sequence: A7J3102 Calibration: A171102

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,2'-Dinitrobiphenyl	2.500	2.66	106	60 - 140	
2,2'-Dinitrobiphenyl [2C]	2.500	2.67	107	60 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1-Bromo-4-nitrobenzene	301845	4.342	179863	4.344	
1-Bromo-4-nitrobenzene [2C]	166975	3.793	103514	3.799	

Sample Name: A710097-BLK2

=====

Acq. Operator : JJK Seq. Line : 14
Acq. Instrument : 3336A52146 Location : Vial 14
Injection Date : 10/31/2017 11:34:28 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

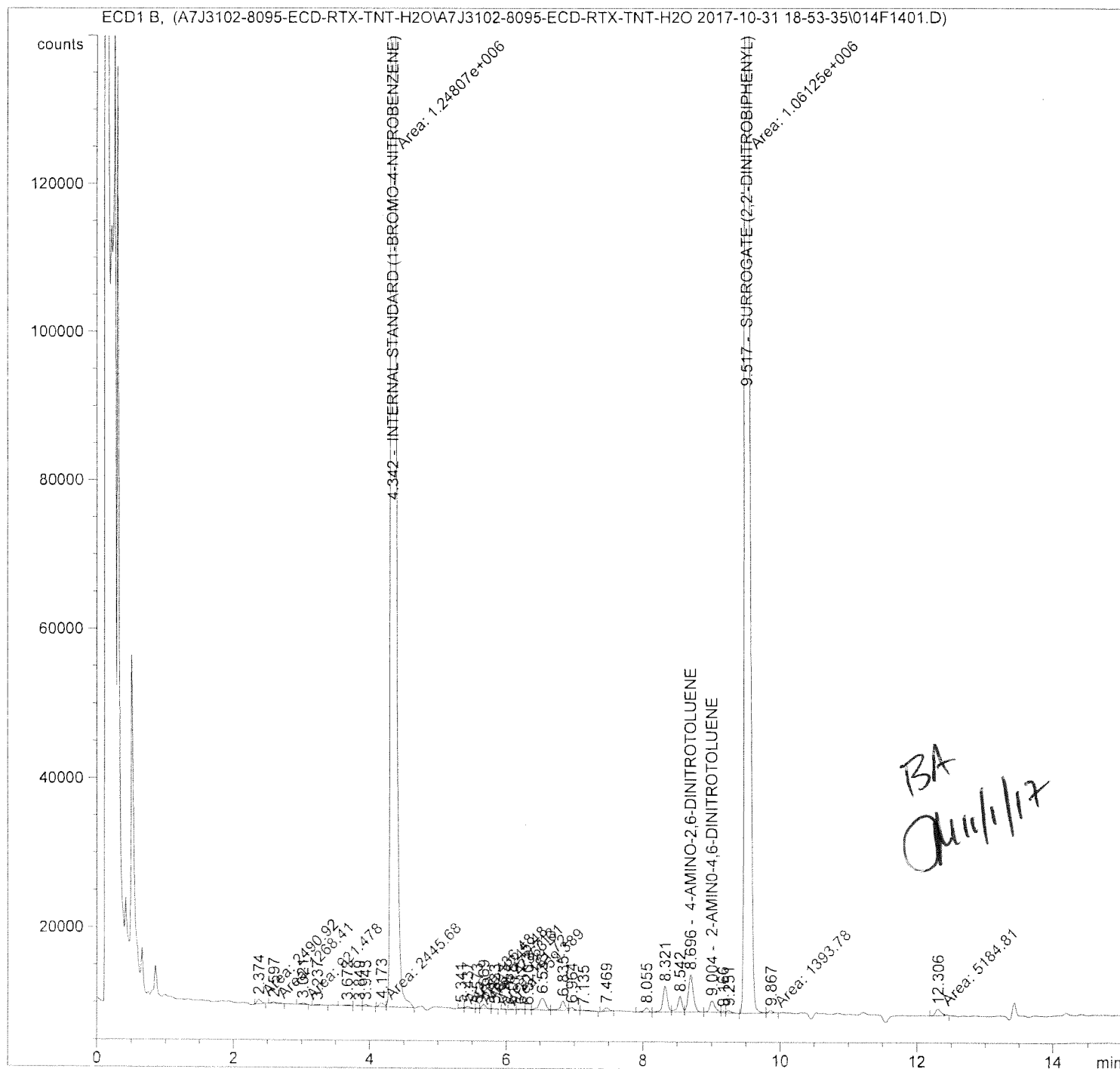
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 14
Acq. Instrument	: 3336A52146	Location	: Vial 14
Injection Date	: 10/31/2017 11:34:28 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.207	1		1	-	-	-		NITROBENZENE
2.896	1		1	-	-	-		2-NITROTOLUENE
3.214	1		1	-	-	-		3-NITROTOLUENE
3.361	1		1	-	-	-		4-NITROTOLUENE
4.342	1	FM +I	1	3.01845e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.628	1		1	-	-	-		NITROGLYCERIN
5.251	1		1	-	-	-		1,3-DINITROBENZENE
5.385	1		1	-	-	-		2,6-DINITROTOLUENE
5.950	1		1	-	-	-		2,4-DINITROTOLUENE
6.344	1		1	-	-	-		3,4-DINITROTOLUENE
7.031	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.198	1		1	-	-	-		2,4,6-TRINITROTOLUENE
7.823	1		1	-	-	-		PETN
8.142	1		1	-	-	-		RDX
8.696	1	VB	1	4934.03174	6.58134e-1	1.34475e-3		4-AMINO-2,6-DINITROTOLUENE
8.750	1		1	-	-	-		3,5-DINITROANILINE
9.004	1	BV	1	1519.16345	4.13216e-1	2.59961e-4		2-AMINO-4,6-DINITROTOLUENE
9.517	1	MF +	1	2.53840e5	1.01223	1.06406e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.613	1		1	-	-	-		TETRYL
12.238	1		1	-	-	-		HMX

Totals without ISTD(s) : 1.08011e-1

Handwritten signature

```
=====
Acq. Operator   : JJK                               Seq. Line :   14
Acq. Instrument : 3336A52146                         Location  : Vial 14
Injection Date  : 10/31/2017 11:34:28 PM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====
```

2 Warnings or Errors :

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

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

=====

Acq. Operator : JJK *JA 11/2/17* Seq. Line : 14
Acq. Instrument : 3337G12416 Location : Vial 14
Injection Date : 10/31/2017 11:41:20 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

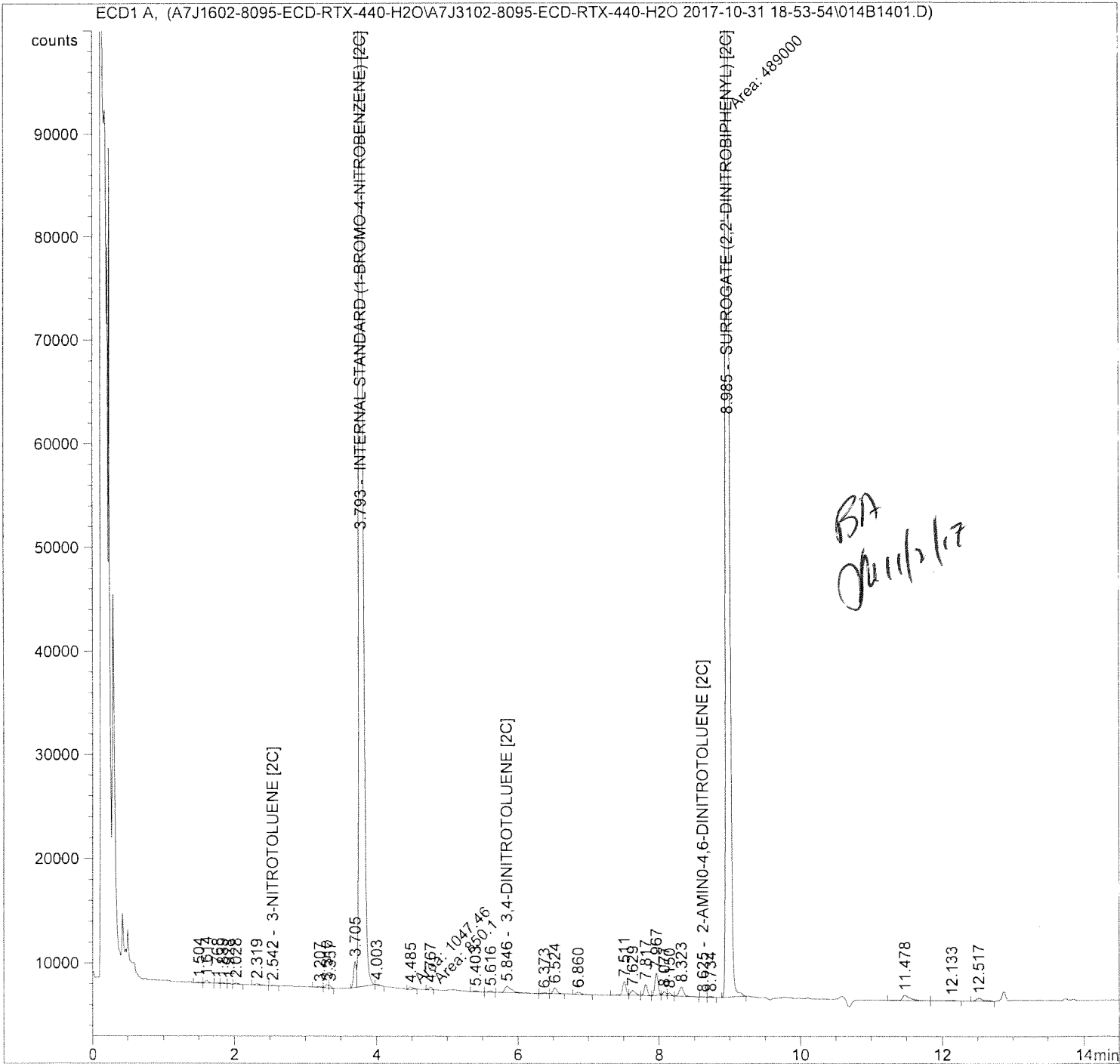
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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

Page 2 of 3

=====

Acq. Operator	: JJK	Seq. Line	: 14
Acq. Instrument	: 3337G12416	Location	: Vial 14
Injection Date	: 10/31/2017 11:41:20 PM <i>11/2/17</i>	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

2 Warnings or Errors :

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

=====

*** End of Report ***

LCS / LCS DUPLICATE RECOVERY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Matrix: Water

Batch: A710097

Laboratory ID: A710097-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	2.66	107	70 - 130
2-Amino-4,6-dinitrotoluene [2C]	2.500	2.37	94.7	70 - 130
4-Amino-2,6-dinitrotoluene	2.500	2.66	106	70 - 130
4-Amino-2,6-dinitrotoluene [2C]	2.500	2.44	97.7	70 - 130
3,5-Dinitroaniline	2.500	2.64	105	70 - 130
3,5-Dinitroaniline [2C]	2.500	2.38	95.0	70 - 130
1,3-Dinitrobenzene	2.500	2.41	96.3	70 - 130
1,3-Dinitrobenzene [2C]	2.500	2.18	87.4	70 - 130
2,6-Dinitrotoluene	2.500	2.37	94.6	70 - 130
2,6-Dinitrotoluene [2C]	2.500	2.45	98.2	70 - 130
2,4-Dinitrotoluene	2.500	2.33	93.3	70 - 130
2,4-Dinitrotoluene [2C]	2.500	2.38	95.2	70 - 130
HMX	2.500	2.81	113	70 - 130
HMX [2C]	2.500	2.43	97.1	70 - 130
Nitroglycerin	2.500	2.39	95.4	70 - 130
Nitroglycerin [2C]	2.500	2.35	94.0	70 - 130
3-Nitrotoluene	2.500	2.50	99.9	70 - 130
3-Nitrotoluene [2C]	2.500	2.56	102	70 - 130
4-Nitrotoluene	2.500	2.55	102	70 - 130
4-Nitrotoluene [2C]	2.500	2.59	104	70 - 130
PETN	2.500	2.48	99.0	70 - 130
PETN [2C]	2.500	2.34	93.8	70 - 130
RDX	2.500	2.54	102	70 - 130
RDX [2C]	2.500	2.39	95.4	70 - 130
Tetryl	2.500	2.72	109	70 - 130
Tetryl [2C]	2.500	2.48	99.2	70 - 130
1,3,5-Trinitrobenzene	2.500	2.55	102	70 - 130
1,3,5-Trinitrobenzene [2C]	2.500	2.45	98.2	70 - 130
2,4,6-Trinitrotoluene	2.500	3.07	123	70 - 130
2,4,6-Trinitrotoluene [2C]	2.500	2.79	111	70 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Matrix: Water

Batch: A710097

Laboratory ID: A710097-BS1

Preparation: EPA 3511

Initial/Final: 400 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
2-Amino-4,6-dinitrotoluene	2.500	2.38	95.1	11.3	20	70 - 130
2-Amino-4,6-dinitrotoluene [2C]	2.500	2.43	97.2	2.58	20	70 - 130
4-Amino-2,6-dinitrotoluene	2.500	2.39	95.6	10.6	20	70 - 130
4-Amino-2,6-dinitrotoluene [2C]	2.500	2.48	99.3	1.59	20	70 - 130
3,5-Dinitroaniline	2.500	2.33	93.3	12.3	20	70 - 130
3,5-Dinitroaniline [2C]	2.500	2.43	97.3	2.36	20	70 - 130
1,3-Dinitrobenzene	2.500	2.27	91.0	5.72	20	70 - 130
1,3-Dinitrobenzene [2C]	2.500	2.16	86.2	1.33	20	70 - 130
2,6-Dinitrotoluene	2.500	2.37	95.0	0.409	20	70 - 130
2,6-Dinitrotoluene [2C]	2.500	2.46	98.4	0.216	20	70 - 130
2,4-Dinitrotoluene	2.500	2.32	92.6	0.687	20	70 - 130
2,4-Dinitrotoluene [2C]	2.500	2.39	95.5	0.300	20	70 - 130
HMX	2.500	2.19	87.4	25.1	20	70 - 130
HMX [2C]	2.500	2.41	96.5	0.699	20	70 - 130
Nitroglycerin	2.500	2.35	93.9	1.58	20	70 - 130
Nitroglycerin [2C]	2.500	2.37	94.9	1.00	20	70 - 130
3-Nitrotoluene	2.500	2.50	99.9	0.0755	20	70 - 130
3-Nitrotoluene [2C]	2.500	2.52	101	1.48	20	70 - 130
4-Nitrotoluene	2.500	2.54	102	0.187	20	70 - 130
4-Nitrotoluene [2C]	2.500	2.57	103	0.865	20	70 - 130
PETN	2.500	2.23	89.0	10.7	20	70 - 130
PETN [2C]	2.500	2.36	94.5	0.749	20	70 - 130
RDX	2.500	2.26	90.6	11.4	20	70 - 130
RDX [2C]	2.500	2.43	97.0	1.70	20	70 - 130
Tetryl	2.500	2.50	99.8	8.43	20	70 - 130
Tetryl [2C]	2.500	2.45	98.0	1.21	20	70 - 130
1,3,5-Trinitrobenzene	2.500	2.44	97.5	4.60	20	70 - 130
1,3,5-Trinitrobenzene [2C]	2.500	2.53	101	3.17	20	70 - 130
2,4,6-Trinitrotoluene	2.500	2.93	117	4.46	20	70 - 130
2,4,6-Trinitrotoluene [2C]	2.500	2.85	114	2.07	20	70 - 130

=====

Acq. Operator	: JJK	Seq. Line	: 17
Acq. Instrument	: 3336A52146	Location	: Vial 17
Injection Date	: 11/1/2017 12:39:06 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

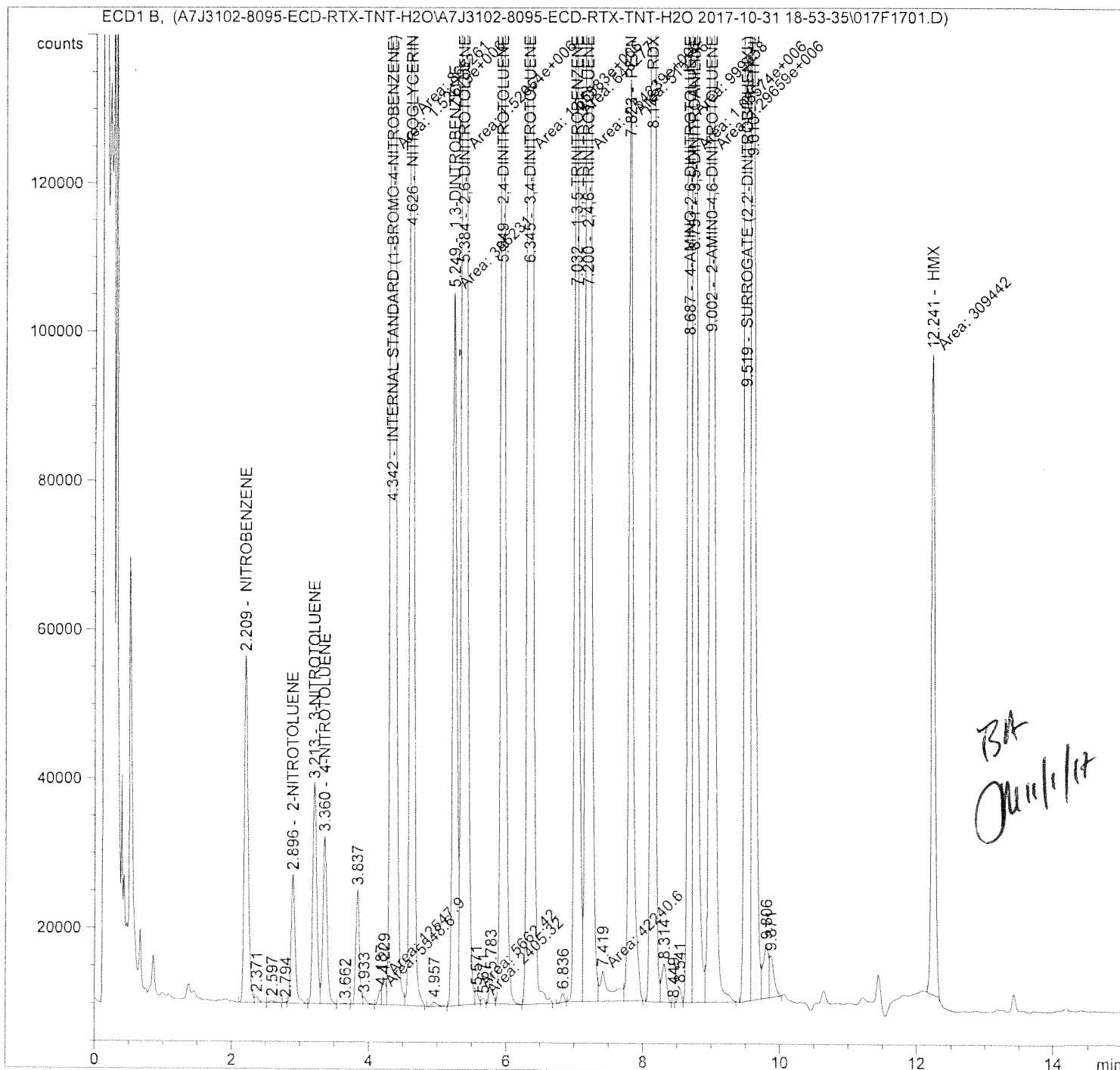
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Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



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Acq. Operator	: JJK	Seq. Line	: 17
Acq. Instrument	: 3336A52146	Location	: Vial 17
Injection Date	: 11/1/2017 12:39:06 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.209	1	BV	1	4.63602e4	5.98276	9.40869e-2		NITROBENZENE
2.896	1	VB	1	1.70593e4	16.59617	9.60400e-2		2-NITROTOLUENE
3.213	1	BV	1	2.93179e4	10.04040	9.98543e-2		3-NITROTOLUENE
3.360	1	VB	1	2.22486e4	13.49050	1.01815e-1		4-NITROTOLUENE
4.342	1	FM +I	1	3.68492e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.626	1	FM	1	2.47254e5	1.13777	9.54292e-2		NITROGLYCERIN
5.249	1	MF	1	9.54999e4	2.97289	9.63082e-2		1,3-DINITROBENZENE
5.384	1	FM	1	3.57548e5	7.80025e-1	9.46072e-2		2,6-DINITROTOLUENE
5.949	1	VB	1	1.93843e5	1.41822	9.32557e-2		2,4-DINITROTOLUENE
6.345	1	MM	1	3.93242e5	7.55092e-1	1.00726e-1		3,4-DINITROTOLUENE
7.032	1	MF	1	1.54407e5	1.94825	1.02046e-1		1,3,5-TRINITROBENZENE
7.200	1	MF	1	3.63451e5	9.94474e-1	1.22609e-1		2,4,6-TRINITROTOLUENE
7.823	1	FM	1	1.23523e5	2.36351	9.90346e-2		PETN
8.143	1	BV	1	3.98794e5	7.50850e-1	1.01574e-1		RDX
8.687	1	MF	1	2.70484e5	1.15919	1.06359e-1		4-AMINO-2,6-DINITROTOLUENE
8.751	1	FM	1	2.76609e5	1.12389	1.05456e-1		3,5-DINITROANILINE
9.002	1	FM	1	3.05605e5	1.02739	1.06507e-1		2-AMINO-4,6-DINITROTOLUENE
9.519	1	BV +	1	3.20574e5	1.01475	1.10350e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.610	1	VV	1	1.48060e5	2.16280	1.08627e-1		TETRYL
12.241	1	MM	1	8.57128e4	3.87217	1.12585e-1		HMX

Totals without ISTD(s) : 1.94727

Sample Name: A710097-BS1

```
=====
Acq. Operator   : JJK                               Seq. Line :   17
Acq. Instrument : 3336A52146                         Location  : Vial 17
Injection Date  : 11/1/2017 12:39:06 AM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
```

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3336A52146	Location	: Vial 18
Injection Date	: 11/1/2017 1:00:40 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

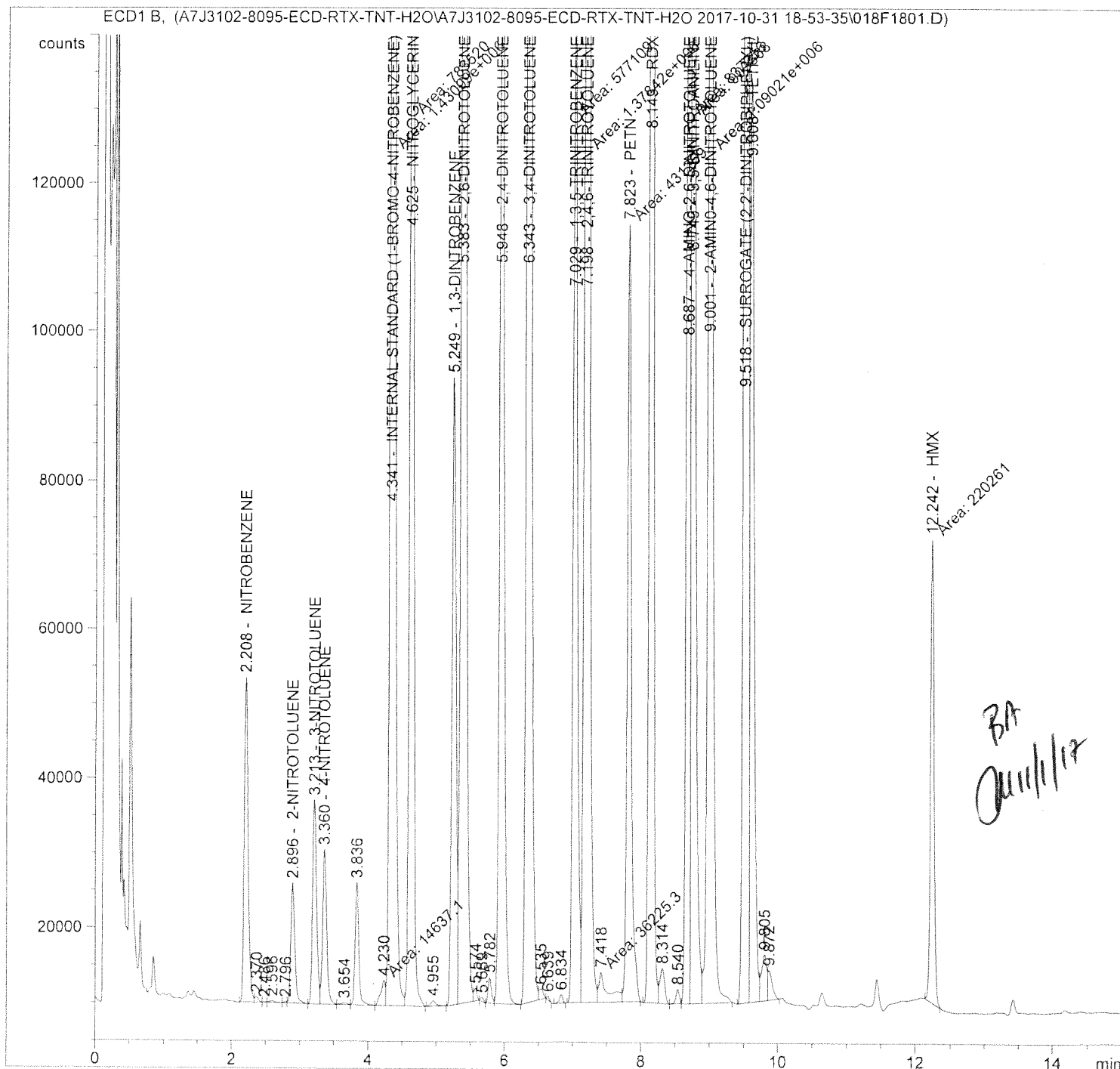
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3336A52146	Location	: Vial 18
Injection Date	: 11/1/2017 1:00:40 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.208	1	BV	1	4.33623e4	5.98823	9.49627e-2		NITROBENZENE
2.896	1	VB	1	1.59898e4	16.60137	9.70800e-2		2-NITROTOLUENE
3.213	1	BV	1	2.72123e4	10.04123	9.99297e-2		3-NITROTOLUENE
3.360	1	VV	1	2.05999e4	13.48948	1.01625e-1		4-NITROTOLUENE
4.341	1	FM +I	1	3.41797e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.625	1	FM	1	2.26036e5	1.13636	9.39363e-2		NITROGLYCERIN
5.249	1	BV	1	8.40264e4	2.95973	9.09515e-2		1,3-DINITROBENZENE
5.383	1	VV	1	3.32837e5	7.80417e-1	9.49948e-2		2,6-DINITROTOLUENE
5.948	1	VB	1	1.78734e5	1.41692	9.26175e-2		2,4-DINITROTOLUENE
6.343	1	BV	1	3.63752e5	7.54848e-1	1.00417e-1		3,4-DINITROTOLUENE
7.029	1	MF	1	1.37439e5	1.93893	9.74571e-2		1,3,5-TRINITROBENZENE
7.198	1	MF	1	3.23990e5	9.89646e-1	1.17261e-1		2,4,6-TRINITROTOLUENE
7.823	1	FM	1	1.04254e5	2.33481	8.90199e-2		PETN
8.143	1	BV	1	3.30386e5	7.49677e-1	9.05812e-2		RDX
8.687	1	MF	1	2.28731e5	1.14335	9.56412e-2		4-AMINO-2,6-DINITROTOLUENE
8.749	1	FM	1	2.31165e5	1.10325	9.32688e-2		3,5-DINITROANILINE
9.001	1	FM	1	2.57553e5	1.00997	9.51297e-2		2-AMINO-4,6-DINITROTOLUENE
9.518	1	BV +	1	2.76073e5	1.00923	1.01896e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.608	1	VV	1	1.23978e5	2.20210	9.98439e-2		TETRYL
12.242	1	MM	1	6.20814e4	3.85143	8.74432e-2		HMX

Totals without ISTD(s) : 1.83406

=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3336A52146	Location	: Vial 18
Injection Date	: 11/1/2017 1:00:40 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 17
Acq. Instrument	: 3337G12416	Location	: Vial 17
Injection Date	: 11/1/2017 12:47:27 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

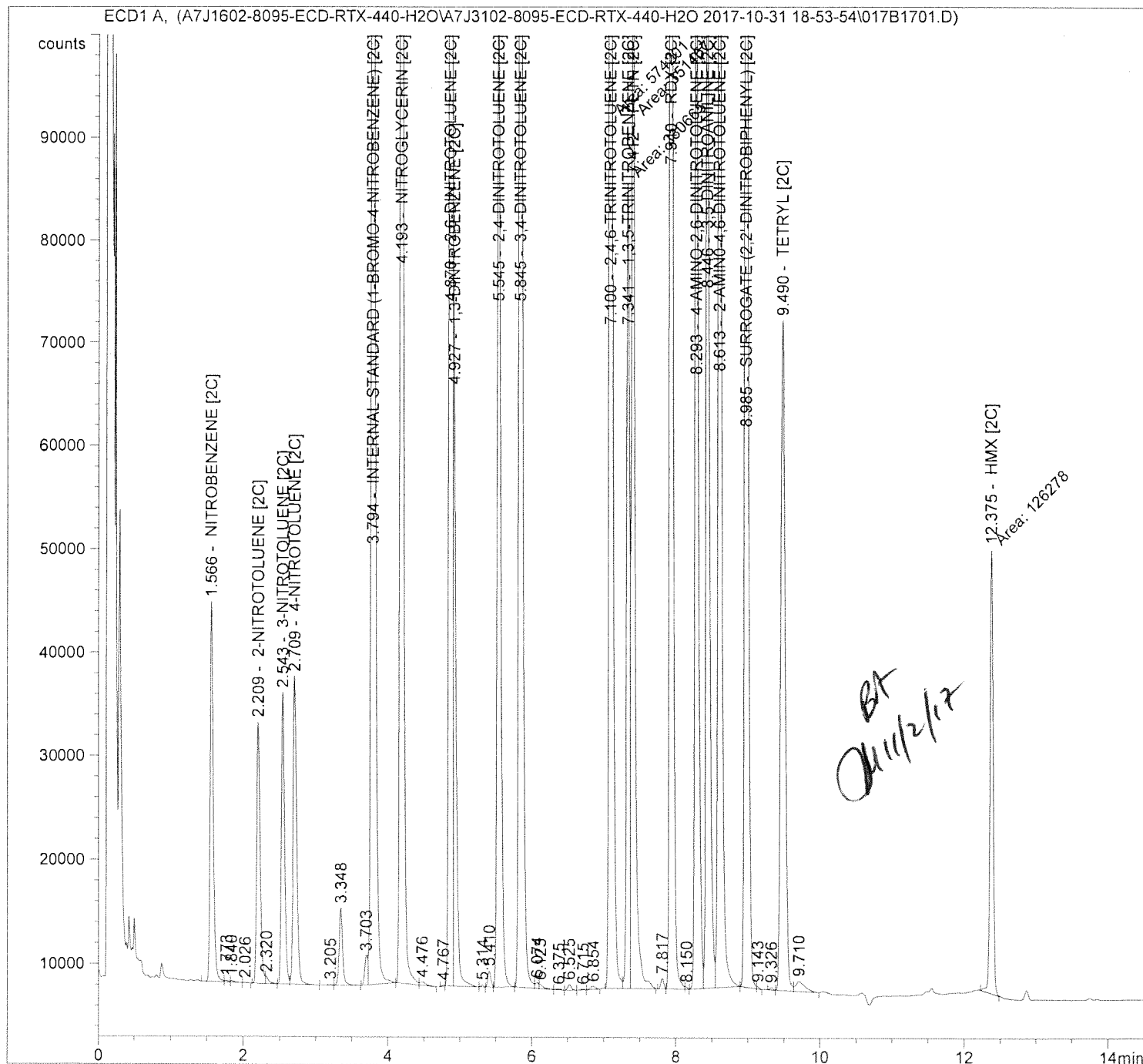
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Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:56:17 AM by RWJ
(modified after loading)

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 17
Acq. Instrument	: 3337G12416	Location	: Vial 17
Injection Date	: 11/1/2017 12:47:27 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:56:17 AM by RWJ
(modified after loading)

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 : 11/2/2017 10:56:20 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
1.566	1	BV	1	3.66224e4	3.72004	9.69509e-2		NITROBENZENE [2C]
2.209	1	BV	1	2.51485e4	5.63947	1.00927e-1		2-NITROTOLUENE [2C]
2.543	1	VV	1	2.80459e4	5.12838	1.02354e-1		3-NITROTOLUENE [2C]
2.709	1	VB	1	2.96556e4	4.91123	1.03647e-1		4-NITROTOLUENE [2C]
3.794	1	VB +I	1	1.75652e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.193	1	BV	1	1.85138e5	7.13370e-1	9.39872e-2		NITROGLYCERIN [2C]
4.870	1	BV	1	1.80566e5	7.64035e-1	9.81763e-2		2,6-DINITROTOLUENE [2C]
4.927	1	VV B	1	5.76458e4	2.12958	8.73615e-2		1,3-DINITROBENZENE [2C]
5.545	1	VB	1	9.45852e4	1.41482	9.52319e-2		2,4-DINITROTOLUENE [2C]
5.845	1	BV	1	1.85034e5	7.64178e-1	1.00624e-1		3,4-DINITROTOLUENE [2C]
7.100	1	MF	1	1.75871e5	8.90814e-1	1.11491e-1		2,4,6-TRINITROTOLUENE [2C]
7.341	1	FM	1	7.81923e4	1.76451	9.81854e-2		1,3,5-TRINITROBENZENE [2C]
7.412	1	FM	1	1.04588e5	1.26014	9.37901e-2		PETN [2C]
7.940	1	BV	1	2.13028e5	6.29333e-1	9.54058e-2		RDX [2C]
8.293	1	BV	1	1.17832e5	1.16520	9.77064e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.446	1	VV	1	1.06017e5	1.25944	9.50190e-2		3,5-DINITROANILINE [2C]
8.613	1	VB	1	1.32836e5	1.00188	9.47089e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.985	1	BV +	1	1.53458e5	9.61668e-1	1.05020e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.490	1	BV	1	6.46911e4	2.15472	9.91956e-2		TETRYL [2C]
12.375	1	MM	1	4.28600e4	3.18476	9.71373e-2		HMX [2C]

=====

Acq. Operator	: JJK	Seq. Line	: 17
Acq. Instrument	: 3337G12416	Location	: Vial 17
Injection Date	: 11/1/2017 12:47:27 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:56:17 AM by RWJ
(modified after loading)

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.

=====

Totals without ISTD(s) : 1.86692

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

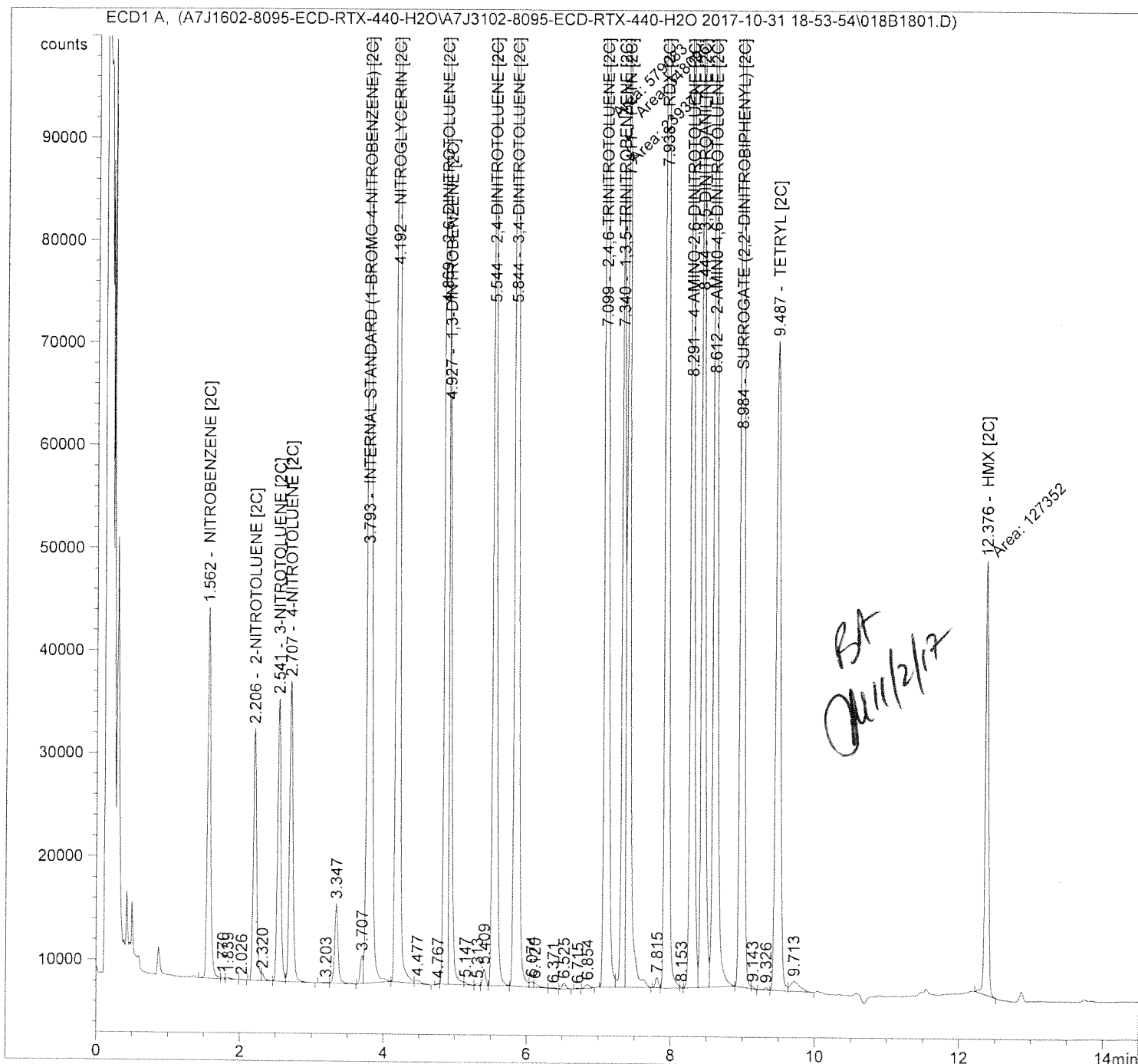
=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 18
Acq. Instrument	: 3337G12416	Location	: Vial 18
Injection Date	: 11/1/2017 1:09:30 AM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M		
Last changed	: 10/11/2017 6:12:28 PM by RWJ		
Analysis Method	: C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M		
Last changed	: 11/2/2017 10:56:17 AM by RWJ (modified after loading)		
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.		

=====



```
=====
Acq. Operator   : JJK                               Seq. Line :   18
Acq. Instrument : 3337G12416                         Location  : Vial 18
Injection Date  : 11/1/2017 1:09:30 AM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:56:17 AM by RWJ
                  (modified after loading)
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 :      11/2/2017 10:56:20 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
1.562	1	BV	1	3.59879e4	3.71813	9.61827e-2		NITROBENZENE [2C]
2.206	1	BV	1	2.43858e4	5.63398	9.87569e-2		2-NITROTOLUENE [2C]
2.541	1	VV	1	2.73923e4	5.12203	1.00852e-1		3-NITROTOLUENE [2C]
2.707	1	VB	1	2.91162e4	4.90961	1.02754e-1		4-NITROTOLUENE [2C]
3.793	1	VB +I	1	1.73898e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.192	1	BV	1	1.85113e5	7.13462e-1	9.49344e-2		NITROGLYCERIN [2C]
4.869	1	BV	1	1.79119e5	7.64169e-1	9.83890e-2		2,6-DINITROTOLUENE [2C]
4.927	1	VV B	1	5.63109e4	2.12978	8.62070e-2		1,3-DINITROBENZENE [2C]
5.544	1	VB	1	9.39019e4	1.41513	9.55183e-2		2,4-DINITROTOLUENE [2C]
5.844	1	BV	1	1.85450e5	7.65470e-1	1.02040e-1		3,4-DINITROTOLUENE [2C]
7.099	1	MF	1	1.77548e5	8.91846e-1	1.13821e-1		2,4,6-TRINITROTOLUENE [2C]
7.340	1	MF	1	7.98005e4	1.76690	1.01352e-1		1,3,5-TRINITROBENZENE [2C]
7.411	1	FM	1	1.04296e5	1.26045	9.44951e-2		PETN [2C]
7.938	1	BV	1	2.14636e5	6.29009e-1	9.70453e-2		RDX [2C]
8.291	1	BV	1	1.18317e5	1.16729	9.92753e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.444	1	VV	1	1.07430e5	1.25984	9.72876e-2		3,5-DINITROANILINE [2C]
8.612	1	VB	1	1.34810e5	1.00290	9.71842e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.984	1	BV +	1	1.57166e5	9.62424e-1	1.08728e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.487	1	BV	1	6.29734e4	2.16514	9.80073e-2		TETRYL [2C]
12.376	1	MM	1	4.20467e4	3.19157	9.64609e-2		HMX [2C]

```
=====
Acq. Operator   : JJK                               Seq. Line :   18
Acq. Instrument : 3337G12416                         Location  : Vial 18
Injection Date  : 11/1/2017 1:09:30 AM                Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:56:17 AM by RWJ
                  (modified after loading)
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.
```

=====

Totals without ISTD(s) : 1.87929

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

ANALYSIS SEQUENCE SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

SeSuence: A7J3102

Instrument: 3336A52146

Calibration: A171102

Sample Name	Lab Sample ID	Lab File ID	Analysis Date1Time
Instrument Blank	A7J3102-IBL1	001F0101.D.Report.TXT	10/31/2017 18:55
Instrument Blank	A7J3102-IBL2	002F0201.D.Report.TXT	10/31/2017 19:17
Cal Standard	A7J3102-CAL1	003F0301.D.Report.TXT	10/31/2017 19:38
Cal Standard	A7J3102-CAL2	004F0401.D.Report.TXT	10/31/2017 20:00
Cal Standard	A7J3102-CAL3	005F0501.D.Report.TXT	10/31/2017 20:21
Cal Standard	A7J3102-CAL4	006F0601.D.Report.TXT	10/31/2017 20:43
Cal Standard	A7J3102-CAL5	007F0701.D.Report.TXT	10/31/2017 21:04
Cal Standard	A7J3102-CAL6	008F0801.D.Report.TXT	10/31/2017 21:26
Instrument Blank	A7J3102-IBL3	009F0901.D.Report.TXT	10/31/2017 21:47
Initial Cal Check	A7J3102-ICV1	010F1001.D.Report.TXT	10/31/2017 22:08
Calibration Check	A7J3102-CCV1	011F1101.D.Report.TXT	10/31/2017 22:30
Instrument Blank	A7J3102-IBL4	012F1201.D.Report.TXT	10/31/2017 22:51
Blank	A710097-BLK1	013F1301.D.Report.TXT	10/31/2017 23:13
Blank	A710097-BLK2	014F1401.D.Report.TXT	10/31/2017 23:34
PW-890-102417	A174306-01	015F1501.D.Report.TXT	10/31/2017 23:55
BD102417	A174306-02	016F1601.D.Report.TXT	11/01/2017 00:17
LCS	A710097-BS1	017F1701.D.Report.TXT	11/01/2017 00:39
LCS Dup	A710097-BSD1	018F1801.D.Report.TXT	11/01/2017 01:00
Calibration Check	A7J3102-CCV2	019F1901.D.Report.TXT	11/01/2017 01:22

ANALYSIS SEQUENCE SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

SeSuence: A7J3102

Instrument: 3337G12416

Calibration: A171102

Sample Name	Lab Sample ID	Lab File ID	Analysis Date1Time
Instrument Blank	A7J3102-IBL1	001B0101.D.Report.TXT	10/31/2017 18:55
Instrument Blank	A7J3102-IBL2	002B0201.D.Report.TXT	10/31/2017 19:17
Cal Standard	A7J3102-CAL1	003B0301.D.Report.TXT	10/31/2017 19:39
Cal Standard	A7J3102-CAL2	004B0401.D.Report.TXT	10/31/2017 20:02
Cal Standard	A7J3102-CAL3	005B0501.D.Report.TXT	10/31/2017 20:24
Cal Standard	A7J3102-CAL4	006B0601.D.Report.TXT	10/31/2017 20:45
Cal Standard	A7J3102-CAL5	007B0701.D.Report.TXT	10/31/2017 21:07
Cal Standard	A7J3102-CAL6	008B0801.D.Report.TXT	10/31/2017 21:29
Instrument Blank	A7J3102-IBL3	009B0901.D.Report.TXT	10/31/2017 21:51
Initial Cal Check	A7J3102-ICV1	010B1001.D.Report.TXT	10/31/2017 22:13
Calibration Check	A7J3102-CCV1	011B1101.D.Report.TXT	10/31/2017 22:35
Instrument Blank	A7J3102-IBL4	012B1201.D.Report.TXT	10/31/2017 22:57
Blank	A710097-BLK1	013B1301.D.Report.TXT	10/31/2017 23:19
Blank	A710097-BLK2	014B1401.D.Report.TXT	10/31/2017 23:41
PW-890-102417	A174306-01	015B1501.D.Report.TXT	11/01/2017 00:03
BD102417	A174306-02	016B1601.D.Report.TXT	11/01/2017 00:25
LCS	A710097-BS1	017B1701.D.Report.TXT	11/01/2017 00:47
LCS Dup	A710097-BSD1	018B1801.D.Report.TXT	11/01/2017 01:09
Calibration Check	A7J3102-CCV2	019B1901.D.Report.TXT	11/01/2017 01:31

ANALYSIS SEQUENCE

Instrument: 3336A52146

A7J3102

Calibration ID: A171102



Printed: 11/2/2017 12:37:38PM

Lab Number	Sample Name	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
A7J3102-IBL1	BLANK EA	QC		1				
A7J3102-IBL2	BLANK EA	QC		2				
A7J3102-CAL1	8095 ICAL ECD 0.001 UG/ML	QC		3		A700257	A701380	
A7J3102-CAL2	8095 ICAL ECD 0.004 UG/ML	QC		4		A700256	A701380	
A7J3102-CAL3	8095 ICAL ECD 0.01 UG/ML	QC		5		A700255	A701380	
A7J3102-CAL4	8095 ICAL ECD 0.04 UG/ML	QC		6		A700254	A701380	
A7J3102-CAL5	8095 ICAL ECD 0.10 UG/ML	QC		7		A700253	A701380	
A7J3102-CAL6	8095 ICAL ECD 0.40 UG/ML	QC		8		A701354	A701380	
A7J3102-IBL3	BLANK EA	QC		9				
A7J3102-ICV1	8085-ECD SS 0.04 ug/mL	QC		10		A700259	A701380	
A7J3102-CCV1	8095 CCV ECD 0.04 UG/ML	QC		11		A700254	A701380	
A7J3102-IBL4	BLANK EA	QC		12				
A710097-BLK1	Blank	QC		13			A701380	
A710097-BLK2	Blank	QC		14			A701380	
A174306-01	PW-890-102417	8095 ECD Full List	A	15			A701380	report to RL
A174306-02	BD102417	8095 ECD Full List	A	16			A701380	report to RL
A710097-BS1	LCS	QC		17			A701380	
A710097-BSD1	LCS Dup	QC		18			A701380	
A7J3102-CCV2	8095 CCV ECD 0.04 UG/ML	QC		19		A700254	A701380	

ANALYSIS SEQUENCE

Instrument: 3336A52146

A7J3102

Calibration ID: A171102



Printed: 11/2/2017 12:37:38PM

Lab Number	Sample Name	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
Pipette Used	NA	Repeater Used	NA	Syringe(s) Used	SYR0028, SYR0030			

Sequence Reagents and Standards

LIMS Number	Description
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
A701354	8095, ICAL Nitroaromatics, 0.40 ug/mL
A701380	8095, ECD, Internal Standard 5.0ug/mL
A701404	8095, Second Source Nitroaromatics, 10.0 ug/mL

Samples Loaded By Shubal Date 11/2/17

Data Processed By Shubal Date 11/2/17

Sample Information :
Sample Name :
Method Name : 8095-ECD-RTX-TNT

Sample related custom fields:

Line	Location	Sample Name	Custom Field	Value
1	Vial 1	A7J3102-IBL1		No values
2	Vial 2	A7J3102-IBL2		No values
3	Vial 3	A7J3102-CAL1		No values
4	Vial 4	A7J3102-CAL2		No values
5	Vial 5	A7J3102-CAL3		No values
6	Vial 6	A7J3102-CAL4		No values
7	Vial 7	A7J3102-CAL5		No values
8	Vial 8	A7J3102-CAL6		No values
9	Vial 9	A7J3102-IBL3		No values
10	Vial 10	A7J3102-ICV1		No values
11	Vial 11	A7J3102-CCV1		No values
12	Vial 12	A7J3102-IBL4		No values
13	Vial 13	A710097-BLK1		No values
14	Vial 14	A710097-BLK2		No values
15	Vial 15	A174306-01		No values
16	Vial 16	A174306-02		No values
17	Vial 17	A710097-BS1		No values
18	Vial 18	A710097-BSD1		No values
19	Vial 19	A7J3102-CCV2		No values
20	Vial 20			No values
21	Vial 21			No values

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

Sequence: C:\CHEM32\1\SEQUENCE\A7J3102-8095-ECD-RTX-TNT-H2O.S

Summary style:

Sample Summary

Sample Information :
Sample Name :
Method Name : 8095-ECD-RTX-440

=====

Line : 21
Location : Vial 21
Sample Information :
Sample Name :
Method Name : 8095-ECD-RTX-440

=====

Sample related custom fields:

Line	Location	Sample Name	Custom Field	Value
====	=====	=====	=====	=====
1	Vial 1	A7J3102-IBL1		No values
2	Vial 2	A7J3102-IBL2		No values
3	Vial 3	A7J3102-CAL1		No values
4	Vial 4	A7J3102-CAL2		No values
5	Vial 5	A7J3102-CAL3		No values
6	Vial 6	A7J3102-CAL4		No values
7	Vial 7	A7J3102-CAL5		No values
8	Vial 8	A7J3102-CAL6		No values
9	Vial 9	A7J3102-IBL3		No values
10	Vial 10	A7J3102-ICV1		No values
11	Vial 11	A7J3102-CCV1		No values
12	Vial 12	A7J3102-IBL4		No values
13	Vial 13	A710097-BLK1		No values
14	Vial 14	A710097-BLK1		No values
15	Vial 15	A174306-01		No values
16	Vial 16	A174306-02		No values
17	Vial 17	A710097-BS1		No values
18	Vial 18	A710097-BSD1		No values
19	Vial 19	A7J3102-CCV2		No values
20	Vial 20			No values
21	Vial 21			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

INITIAL CALIBRATION STANDARDS

EPA 8095

Laboratory: Pace Analytical - Madison SDG: A174306
Client: Kennedy Jenks Consultants Project: Ashland Kenvil - Kenvil, NJ
Sequence: A7J3102 Instrument: 3336A52146
Calibration: A171102 Instrument*: 3337G12416

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A700257	8095, ICAL Nitroaromatics, 0.001 ug/mL	A7J3102-CAL1	003F0301.D.Report.TXT	10/31/17 19:38
A700257	8095, ICAL Nitroaromatics, 0.001 ug/mL	A7J3102-CAL1 *	003B0301.D.Report.TXT	10/31/17 19:39
A700256	8095, ICAL Nitroaromatics, 0.0040 ug/mL	A7J3102-CAL2	004F0401.D.Report.TXT	10/31/17 20:00
A700256	8095, ICAL Nitroaromatics, 0.0040 ug/mL	A7J3102-CAL2*	004B0401.D.Report.TXT	10/31/17 20:02
A700255	8095, ICAL Nitroaromatics, 0.010 ug/mL	A7J3102-CAL3	005F0501.D.Report.TXT	10/31/17 20:21
A700255	8095, ICAL Nitroaromatics, 0.010 ug/mL	A7J3102-CAL3 *	005B0501.D.Report.TXT	10/31/17 20:24
A700254	8095, ICAL Nitroaromatics, 0.040 ug/mL	A7J3102-CAL4	006F0601.D.Report.TXT	10/31/17 20:43
A700254	8095, ICAL Nitroaromatics, 0.040 ug/mL	A7J3102-CAL4 *	006B0601.D.Report.TXT	10/31/17 20:45
A700253	8095, ICAL Nitroaromatics, 0.10 ug/mL	A7J3102-CAL5	007F0701.D.Report.TXT	10/31/17 21:04
A700253	8095, ICAL Nitroaromatics, 0.10 ug/mL	A7J3102-CAL5*	007B0701.D.Report.TXT	10/31/17 21:07
A701354	8095, ICAL Nitroaromatics, 0.40 ug/mL	A7J3102-CAL6	008F0801.D.Report.TXT	10/31/17 21:26
A701354	8095, ICAL Nitroaromatics, 0.40 ug/mL	A7J3102-CAL6 *	008B0801.D.Report.TXT	10/31/17 21:29

method: C:\Chem32\1\METHODS\8095-ECD-RTX-TNT.M
Modified on: 9/7/2017 at 12:50:49 PM

Method Information

Method: C:\Chem32\1\METHODS\8095-ECD-RTX-TNT.M
Modified: 9/7/2017 at 12:50:49 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*

OK 11/2/17

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: 9/7/2017 at 12:50:49 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"

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.

Oven Zone:

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

method: C:\Chem32\1\METHODS\8095-ECD-RTX-TNT.M
Modified on: 9/7/2017 at 12:50:49 PM
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	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.
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

=====
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\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Modified on: 11/1/2017 at 10:26:21 AM

Method Information

Method: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Modified: 11/1/2017 at 10:26:21 AM

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 : RWJ
Date : 11/1/2017 10:13:28 AM
Change Info: This method was created at 11/1/2017 10:13:28 AM and based on
method C:\CHEM32\1\METHODS\A7J1104-ECD-8095-RTX-TNT-H2O.M

Operator : RWJ
Date : 11/1/2017 10:13:35 AM
Change Info: Method saved. User comment: "CREATED 11/1/17 JJK"

Operator : RWJ
Date : 11/1/2017 10:26:21 AM
Change Info: Method saved. User comment: "UPDATED CAL TABLE 11/1/17 JJK"

*Processing
method*

OK 11/1/17

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_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	2.105
Integration	OFF	12.873

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, November 01, 2017 10:24:43 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 : 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)

Signal 1: ECD1 B,

RetTime [min]	Lvl Sig	Amount	Height	Amt/Height	Ref	Grp	Name
2.208	1	1 1.00000e-3	395.82312	2.52638e-6	1		NITROBENZENE
		2 4.00000e-3	1327.54761	3.01307e-6			
		3 1.00000e-2	3507.21655	2.85126e-6			
		4 4.00000e-2	1.05541e4	3.79001e-6			
		5 1.00000e-1	2.74393e4	3.64441e-6			
		6 4.00000e-1	8.45786e4	4.72933e-6			
2.896	1	1 1.00000e-3	101.46932	9.85520e-6	1		2-NITROTOLUENE
		2 4.00000e-3	382.92453	1.04459e-5			
		3 1.00000e-2	1133.28601	8.82390e-6			
		4 4.00000e-2	3582.94141	1.11640e-5			
		5 1.00000e-1	9994.77148	1.00052e-5			
		6 4.00000e-1	3.30628e4	1.20982e-5			
3.214	1	1 1.00000e-3	270.46201	3.69738e-6	1		3-NITROTOLUENE
		2 4.00000e-3	766.60529	5.21781e-6			
		3 1.00000e-2	2065.95679	4.84037e-6			
		4 4.00000e-2	6283.10693	6.36628e-6			
		5 1.00000e-1	1.65811e4	6.03097e-6			
		6 4.00000e-1	5.17937e4	7.72294e-6			

RetTime [min]	Lvl Sig	Amount	Height	Amt/Height	Ref	Grp	Name
----- --- ---	----- ---	----- ---	----- ---	----- ---	---	---	----- ---
3.361	1	1 1.00000e-3	126.97163	7.87577e-6	1		4-NITROTOLUENE
		2 4.00000e-3	507.83350	7.87660e-6			
		3 1.00000e-2	1438.01318	6.95404e-6			
		4 4.00000e-2	4575.49951	8.74221e-6			
		5 1.00000e-1	1.22916e4	8.13564e-6			
		6 4.00000e-1	3.91988e4	1.02044e-5			
4.343	1	1 1.25000e-1	1.87968e5	6.65009e-7	+I1		INTERNAL STANDARD (1-BROMO-4-NITROBENZI
		2 1.25000e-1	1.84941e5	6.75891e-7			
		3 1.25000e-1	2.10802e5	5.92974e-7			
		4 1.25000e-1	1.79863e5	6.94973e-7			
		5 1.25000e-1	2.01579e5	6.20106e-7			
		6 1.25000e-1	1.85786e5	6.72818e-7			
4.628	1	1 1.00000e-3	1882.63354	5.31171e-7	1		NITROGLYCERIN
		2 4.00000e-3	6668.38721	5.99845e-7			
		3 1.00000e-2	1.79326e4	5.57644e-7			
		4 4.00000e-2	5.40212e4	7.40450e-7			
		5 1.00000e-1	1.43035e5	6.99131e-7			
		6 4.00000e-1	4.60970e5	8.67736e-7			
5.252	1	1 1.00000e-3	592.16132	1.68873e-6	1		1,3-DINTROBENZENE
		2 4.00000e-3	2999.78027	1.33343e-6			
		3 1.00000e-2	7276.39453	1.37431e-6			
		4 4.00000e-2	2.22899e4	1.79454e-6			
		5 1.00000e-1	5.34849e4	1.86969e-6			
		6 4.00000e-1	1.61671e5	2.47415e-6			
5.386	1	1 1.00000e-3	3433.68433	2.91232e-7	1		2,6-DINITROTOLUENE
		2 4.00000e-3	1.13303e4	3.53036e-7			
		3 1.00000e-2	2.79417e4	3.57888e-7			
		4 4.00000e-2	8.00900e4	4.99438e-7			
		5 1.00000e-1	1.99660e5	5.00851e-7			
		6 4.00000e-1	6.65090e5	6.01423e-7			
5.951	1	1 1.00000e-3	1922.04004	5.20281e-7	1		2,4-DINITROTOLUENE
		2 4.00000e-3	6499.56836	6.15425e-7			
		3 1.00000e-2	1.60826e4	6.21790e-7			
		4 4.00000e-2	4.52687e4	8.83613e-7			
		5 1.00000e-1	1.09938e5	9.09605e-7			
		6 4.00000e-1	3.50166e5	1.14232e-6			
6.346	1	1 1.00000e-3	3221.86401	3.10379e-7	1		3,4-DINITROTOLUENE
		2 4.00000e-3	1.11471e4	3.58838e-7			
		3 1.00000e-2	2.85155e4	3.50687e-7			
		4 4.00000e-2	8.35355e4	4.78839e-7			
		5 1.00000e-1	2.08659e5	4.79251e-7			
		6 4.00000e-1	6.93578e5	5.76719e-7			
7.033	1	1 1.00000e-3	1198.29407	8.34520e-7	1		1,3,5-TRINITROBENZENE
		2 4.00000e-3	4374.78223	9.14331e-7			
		3 1.00000e-2	1.11059e4	9.00426e-7			
		4 4.00000e-2	3.41684e4	1.17067e-6			
		5 1.00000e-1	8.26891e4	1.20935e-6			
		6 4.00000e-1	2.55295e5	1.56681e-6			
7.200	1	1 1.00000e-3	2644.60913	3.78128e-7	1		2,4,6-TRINITROTOLUENE
		2 4.00000e-3	8310.65723	4.81310e-7			
		3 1.00000e-2	2.09965e4	4.76269e-7			
		4 4.00000e-2	6.87200e4	5.82072e-7			
		5 1.00000e-1	1.76208e5	5.67511e-7			
		6 4.00000e-1	5.02290e5	7.96353e-7			
7.825	1	1 1.00000e-3	1068.03784	9.36296e-7	1		PETN
		2 4.00000e-3	3559.00439	1.12391e-6			
		3 1.00000e-2	9473.51465	1.05557e-6			

RetTime	Lvl	Amount	Height	Amt/Height	Ref	Grp	Name
[min]	Sig						
----- --- ---	----	----- ---	----- ---	----- ---	----	---	----- ---
		4 4.00000e-2	2.74152e4	1.45904e-6			
		5 1.00000e-1	6.89476e4	1.45038e-6			
		6 4.00000e-1	2.09668e5	1.90778e-6			
8.144	1	1 1.00000e-3	2075.94482	4.81708e-7	1		RDX
		2 4.00000e-3	8193.83691	4.88172e-7			
		3 1.00000e-2	2.38833e4	4.18702e-7			
		4 4.00000e-2	7.98805e4	5.00748e-7			
		5 1.00000e-1	2.16646e5	4.61582e-7			
		6 4.00000e-1	7.50929e5	5.32673e-7			
8.689	1	1 1.00000e-3	2348.27588	4.25844e-7	1		4-AMINO-2,6-DINITROTOLUENE
		2 4.00000e-3	7975.43262	5.01540e-7			
		3 1.00000e-2	1.96770e4	5.08208e-7			
		4 4.00000e-2	5.64046e4	7.09162e-7			
		5 1.00000e-1	1.38414e5	7.22473e-7			
		6 4.00000e-1	4.34721e5	9.20131e-7			
8.753	1	1 1.00000e-3	2837.42383	3.52432e-7	1		3,5-DINITROANILINE
		2 4.00000e-3	8346.93066	4.79218e-7			
		3 1.00000e-2	2.04394e4	4.89250e-7			
		4 4.00000e-2	5.98693e4	6.68122e-7			
		5 1.00000e-1	1.45877e5	6.85508e-7			
		6 4.00000e-1	4.38201e5	9.12823e-7			
9.002	1	1 1.00000e-3	3107.98608	3.21752e-7	1		2-AMINO-4,6-DINITROTOLUENE
		2 4.00000e-3	9165.81348	4.36404e-7			
		3 1.00000e-2	2.27723e4	4.39129e-7			
		4 4.00000e-2	6.48432e4	6.16872e-7			
		5 1.00000e-1	1.57420e5	6.35243e-7			
		6 4.00000e-1	4.85936e5	8.23153e-7			
9.520	1	1 1.00000e-3	2018.44519	4.95431e-7	+ 1		SURROGATE (2,2'-DINITROBIPHENYL)
		2 4.00000e-3	7142.79443	5.60005e-7			
		3 1.00000e-2	2.01161e4	4.97115e-7			
		4 4.00000e-2	6.30362e4	6.34556e-7			
		5 1.00000e-1	1.61070e5	6.20849e-7			
		6 4.00000e-1	5.19552e5	7.69894e-7			
9.615	1	1 1.00000e-3	292.08978	3.42360e-6	1		TETRYL
		2 4.00000e-3	1112.11255	3.59676e-6			
		3 1.00000e-2	4453.41455	2.24547e-6			
		4 4.00000e-2	2.47420e4	1.61668e-6			
		5 1.00000e-1	7.12044e4	1.40441e-6			
12.241	1	1 1.00000e-3	498.24625	2.00704e-6	1		HMX
		2 4.00000e-3	1440.89038	2.77606e-6			
		3 1.00000e-2	4069.44995	2.45733e-6			
		4 4.00000e-2	1.56229e4	2.56034e-6			
		5 1.00000e-1	4.43032e4	2.25717e-6			
		6 4.00000e-1	1.51438e5	2.64134e-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

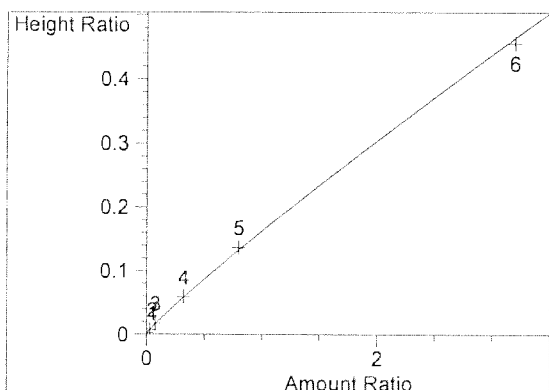
1 Warnings or Errors :

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

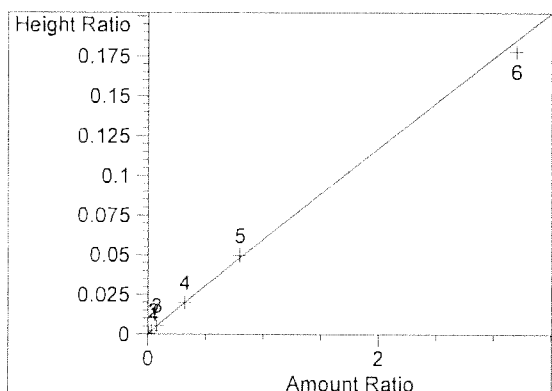
Peak Sum Table

No Entries in table

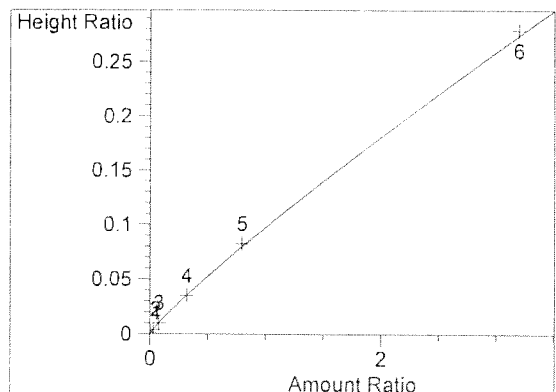
Calibration Curves



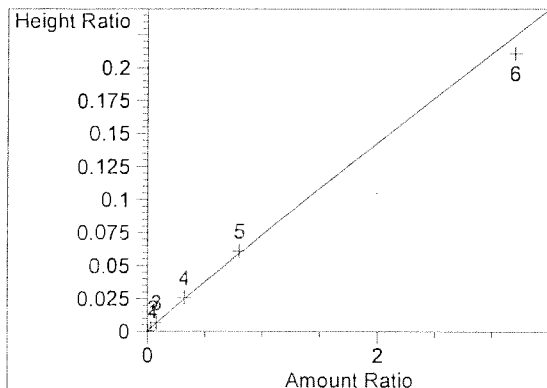
NITROBENZENE at exp. RT: 2.208
 ECD1 B,
 Correlation: 0.99992
 Residual Std. Dev.: 0.00454
 Formula: $y = b * x^m$
 m: 9.01396e-1
 b: 1.62530e-1
 x: Amount
 y: Height



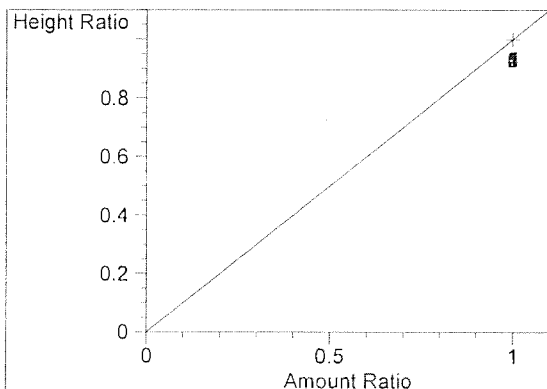
2-NITROTOLUENE at exp. RT: 2.896
 ECD1 B,
 Correlation: 0.99983
 Residual Std. Dev.: 0.00358
 Formula: $y = b * x^m$
 m: 9.70875e-1
 b: 5.97941e-2
 x: Amount
 y: Height



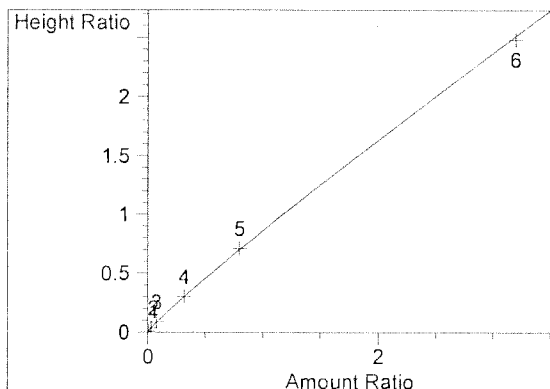
3-NITROTOLUENE at exp. RT: 3.214
 ECD1 B,
 Correlation: 0.99998
 Residual Std. Dev.: 0.00273
 Formula: $y = b * x^m$
 m: 8.91108e-1
 b: 9.71912e-2
 x: Amount
 y: Height



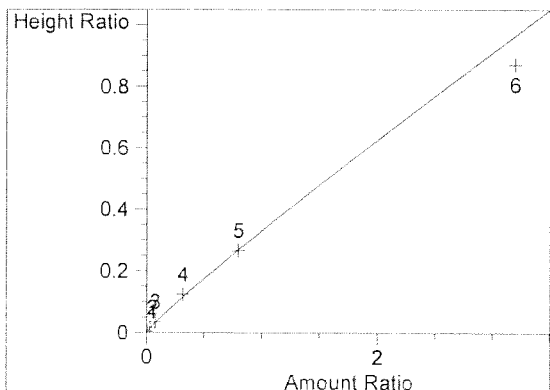
4-NITROTOLUENE at exp. RT: 3.361
 ECD1 B,
 Correlation: 0.99969
 Residual Std. Dev.: 0.00675
 Formula: $y = b * x^m$
 m: 9.59306e-1
 b: 7.35100e-2
 x: Amount
 y: Height



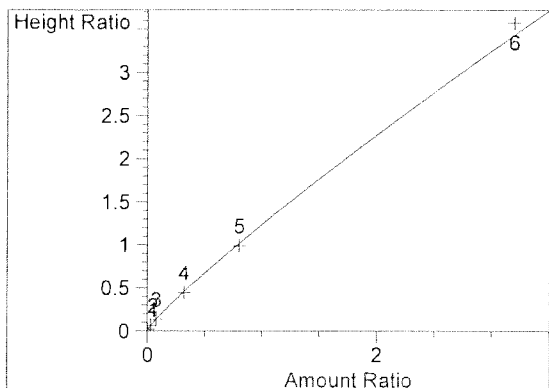
INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) at exp. RT: 4.1
 ECD1 B,
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount
 y: Height



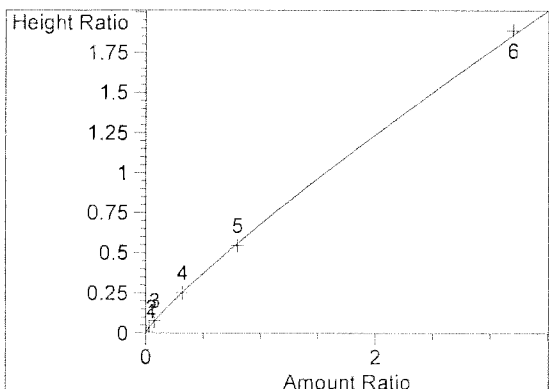
NITROGLYCERIN at exp. RT: 4.628
 ECD1 B,
 Correlation: 0.99998
 Residual Std. Dev.: 0.01554
 Formula: $y = b * x^m$
 m: 9.20839e-1
 b: 8.60328e-1
 x: Amount
 y: Height



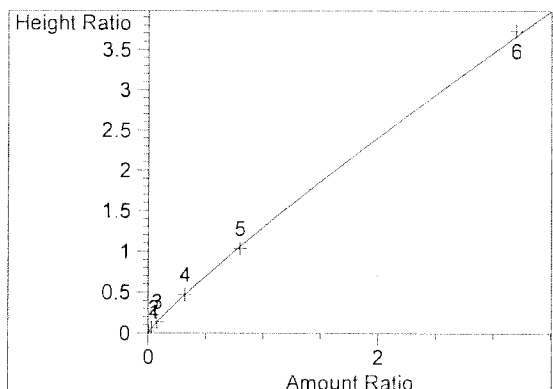
1,3-DINITROBENZENE at exp. RT: 5.252
 ECD1 B,
 Correlation: 0.99954
 Residual Std. Dev.: 0.04713
 Formula: $y = b * x^m$
 m: 9.22511e-1
 b: 3.29645e-1
 x: Amount
 y: Height



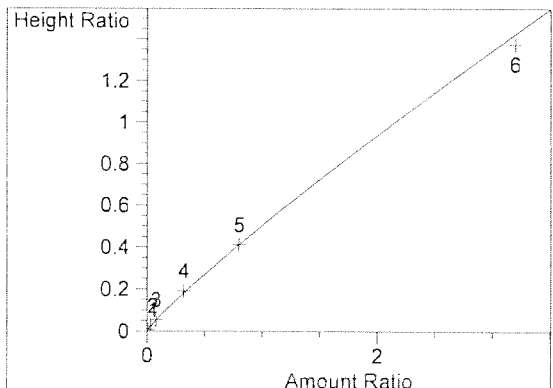
2,6-DINITROTOLUENE at exp. RT: 5.386
 ECD1 B,
 Correlation: 0.99979
 Residual Std. Dev.: 0.07330
 Formula: $y = b * x^m$
 m: 8.77130e-1
 b: 1.23887
 x: Amount
 y: Height



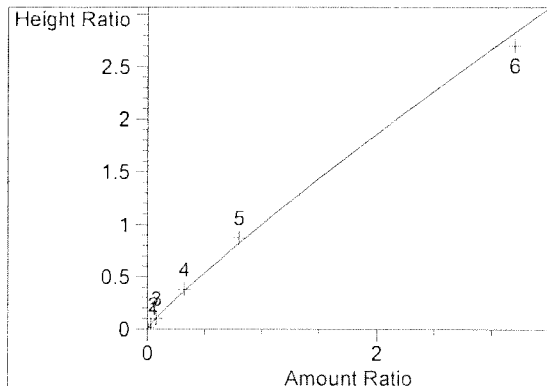
2,4-DINITROTOLUENE at exp. RT: 5.951
 ECD1 B,
 Correlation: 0.99993
 Residual Std. Dev.: 0.01542
 Formula: $y = b * x^m$
 m: 8.66253e-1
 b: 6.78014e-1
 x: Amount
 y: Height



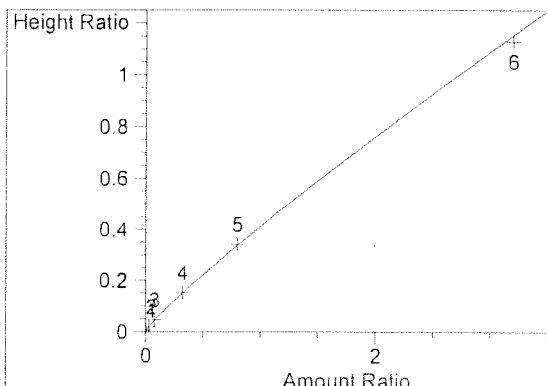
3,4-DINITROTOLUENE at exp. RT: 6.346
 ECD1 B,
 Correlation: 0.99993
 Residual Std. Dev.: 0.03580
 Formula: $y = b * x^m$
 m: 8.94926e-1
 b: 1.29463
 x: Amount
 y: Height



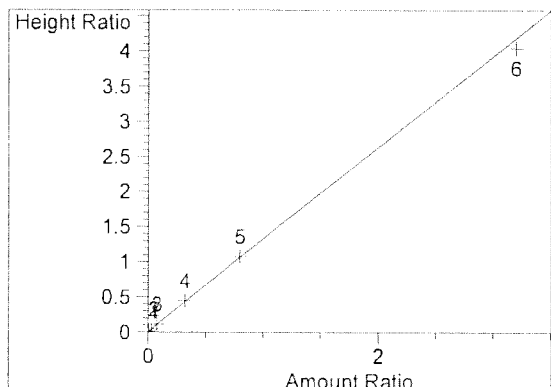
1,3,5-TRINITROBENZENE at exp. RT: 7.033
 ECD1 B,
 Correlation: 0.99991
 Residual Std. Dev.: 0.02552
 Formula: $y = b * x^m$
 m: 8.95693e-1
 b: 5.02532e-1
 x: Amount
 y: Height



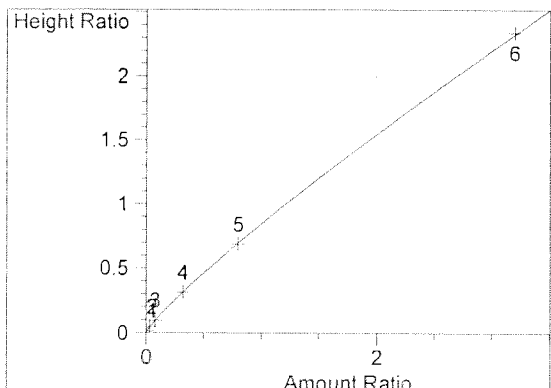
2,4,6-TRINITROTOLUENE at exp. RT: 7.200
 ECD1 B,
 Correlation: 0.99941
 Residual Std. Dev.: 0.06814
 Formula: $y = b * x^m$
 m: 8.90865e-1
 b: 1.00344
 x: Amount
 y: Height



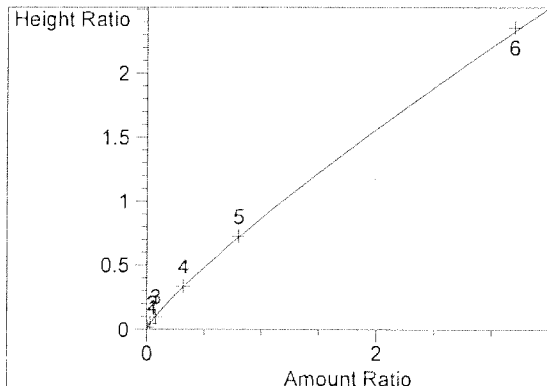
PETN at exp. RT: 7.825
 ECD1 B,
 Correlation: 0.99995
 Residual Std. Dev.: 0.01282
 Formula: $y = b * x^m$
 m: 8.85402e-1
 b: 4.11959e-1
 x: Amount
 y: Height



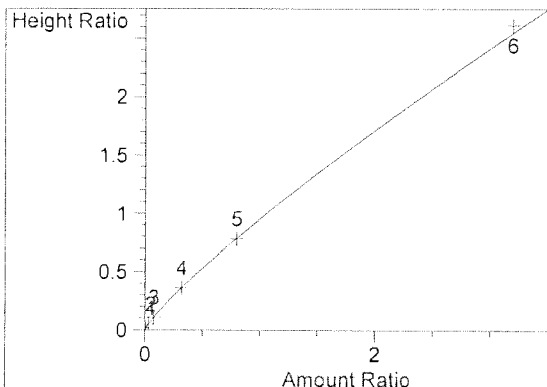
RDX at exp. RT: 8.144
 ECD1 B,
 Correlation: 0.99993
 Residual Std. Dev.: 0.07091
 Formula: $y = b * x^m$
 m: 9.86351e-1
 b: 1.32806
 x: Amount
 y: Height



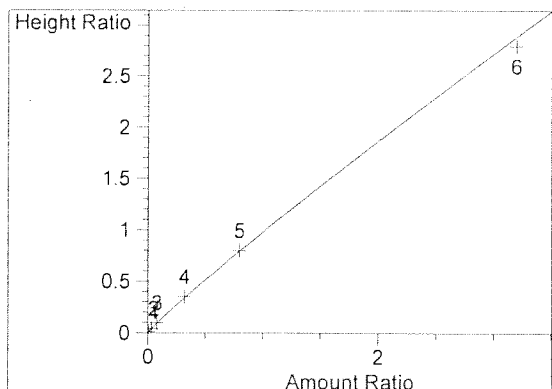
4-AMINO-2,6-DINITROTOLUENE at exp. RT: 8.689
 ECD1 B,
 Correlation: 0.99998
 Residual Std. Dev.: 0.00858
 Formula: $y = b * x^m$
 m: 8.70484e-1
 b: 8.44819e-1
 x: Amount
 y: Height



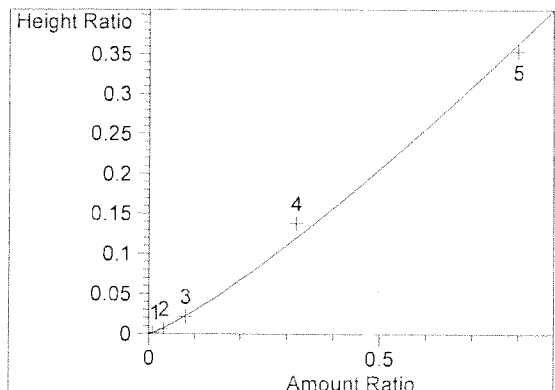
3,5-DINITROANILINE at exp. RT: 8.753
 ECD1 B,
 Correlation: 1.00000
 Residual Std. Dev.: 0.01581
 Formula: $y = b * x^m$
 m: 8.49035e-1
 b: 8.67219e-1
 x: Amount
 y: Height



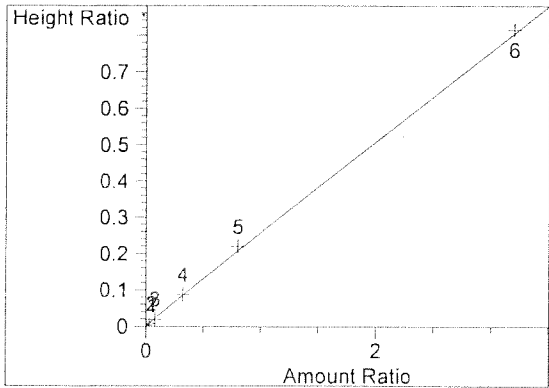
2-AMINO-4,6-DINITROTOLUENE at exp. RT: 9.002
 ECD1 B,
 Correlation: 0.99995
 Residual Std. Dev.: 0.03335
 Formula: $y = b * x^m$
 m: 8.48589e-1
 b: 9.50029e-1
 x: Amount
 y: Height



SURROGATE (2,2'-DINITROBIPHENYL) at exp. RT: 9.520
 ECD1 B,
 Correlation: 0.99992
 Residual Std. Dev.: 0.04593
 Formula: $y = b * x^m$
 m: 9.31531e-1
 b: 9.77084e-1
 x: Amount
 y: Height



TETRYL at exp. RT: 9.615
 ECD1 B,
 Correlation: 0.99792
 Residual Std. Dev.: 0.01199
 Formula: $y = b * x^m$
 m: 1.21356
 b: 4.76436e-1
 x: Amount
 y: Height



HMX at exp. RT: 12.241
ECD1 B,
Correlation: 0.99990
Residual Std. Dev.: 0.00847
Formula: $y = b * x^m$
m: 9.78755e-1
b: 2.57680e-1
x: Amount
y: Height

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Acq. Operator	: JJK	Seq. Line	: 1
Acq. Instrument	: 3336A52146	Location	: Vial 1
Injection Date	: 10/31/2017 6:55:41 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

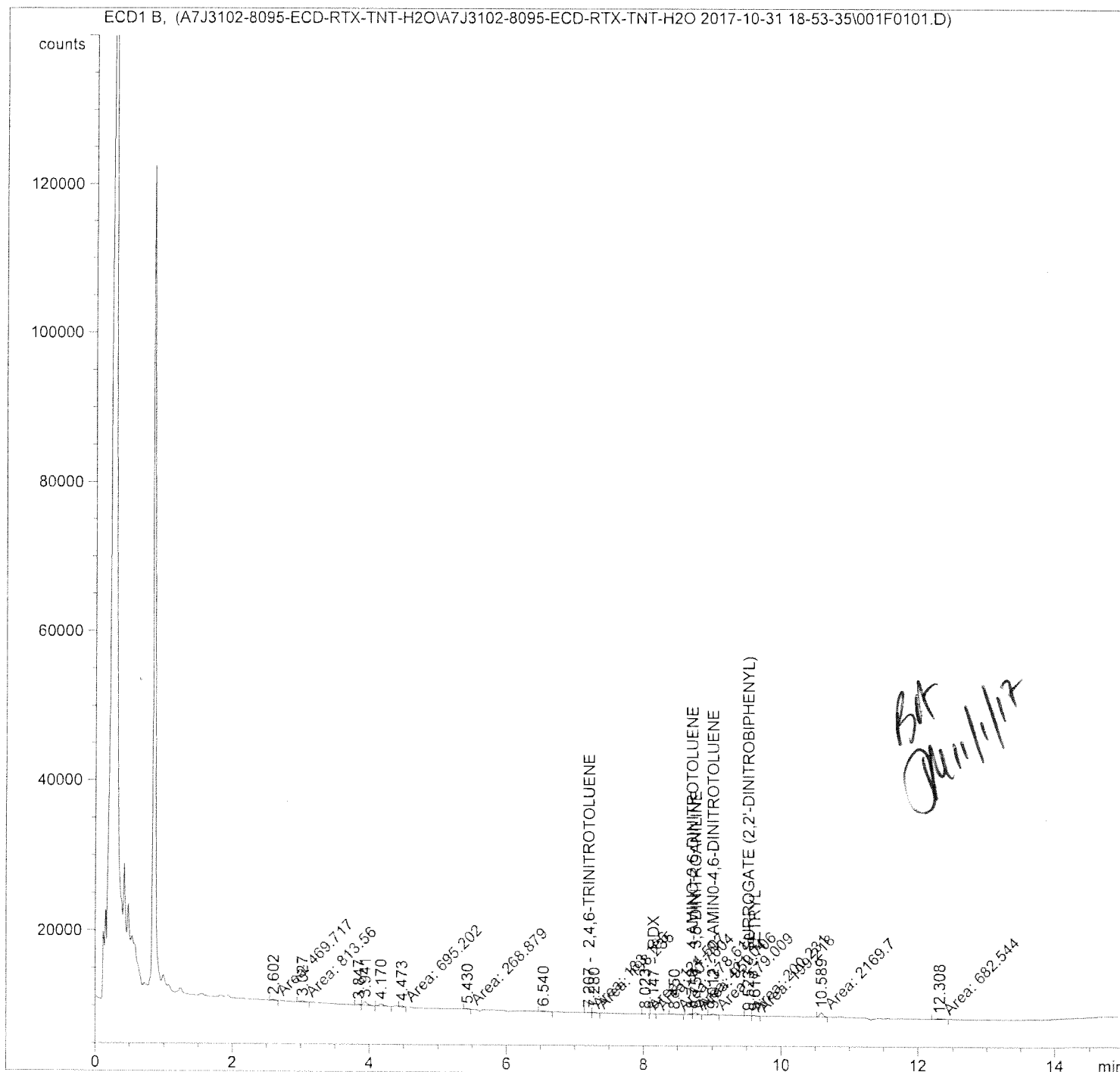
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

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Acq. Operator	: JJK	Seq. Line	: 1
Acq. Instrument	: 3336A52146	Location	: Vial 1
Injection Date	: 10/31/2017 6:55:41 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

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Internal Standard Report

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Sorted By : Retention Time

Calib. Data Modified : Wednesday, November 01, 2017 10:24:43 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
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#

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1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
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Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
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2.208	1		1	-	-	-		NITROBENZENE
2.897	1		1	-	-	-		2-NITROTOLUENE
3.216	1		1	-	-	-		3-NITROTOLUENE
3.363	1		1	-	-	-		4-NITROTOLUENE
4.343	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.630	1		1	-	-	-		NITROGLYCERIN
5.254	1		1	-	-	-		1,3-DINITROBENZENE
5.388	1		1	-	-	-		2,6-DINITROTOLUENE
5.953	1		1	-	-	-		2,4-DINITROTOLUENE
6.348	1		1	-	-	-		3,4-DINITROTOLUENE
7.036	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.207	1	MF	1	46.76196	0.00000	0.00000		2,4,6-TRINITROTOLUENE
7.828	1		1	-	-	-		PETN
8.147	1	MM	1	23.19002	0.00000	0.00000		RDX
8.710	1	MF	1	124.51588	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE
8.757	1	FM	1	235.87810	0.00000	0.00000		3,5-DINITROANILINE
9.012	1	MM	1	139.43883	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE
9.523	1	MF +	1	52.00008	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)
9.617	1	FM	1	44.97710	0.00000	0.00000		TETRYL
12.246	1		1	-	-	-		HMX

Totals without ISTD(s) : 0.00000

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Acq. Operator	: JJK	Seq. Line	: 1
Acq. Instrument	: 3336A52146	Location	: Vial 1
Injection Date	: 10/31/2017 6:55:41 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

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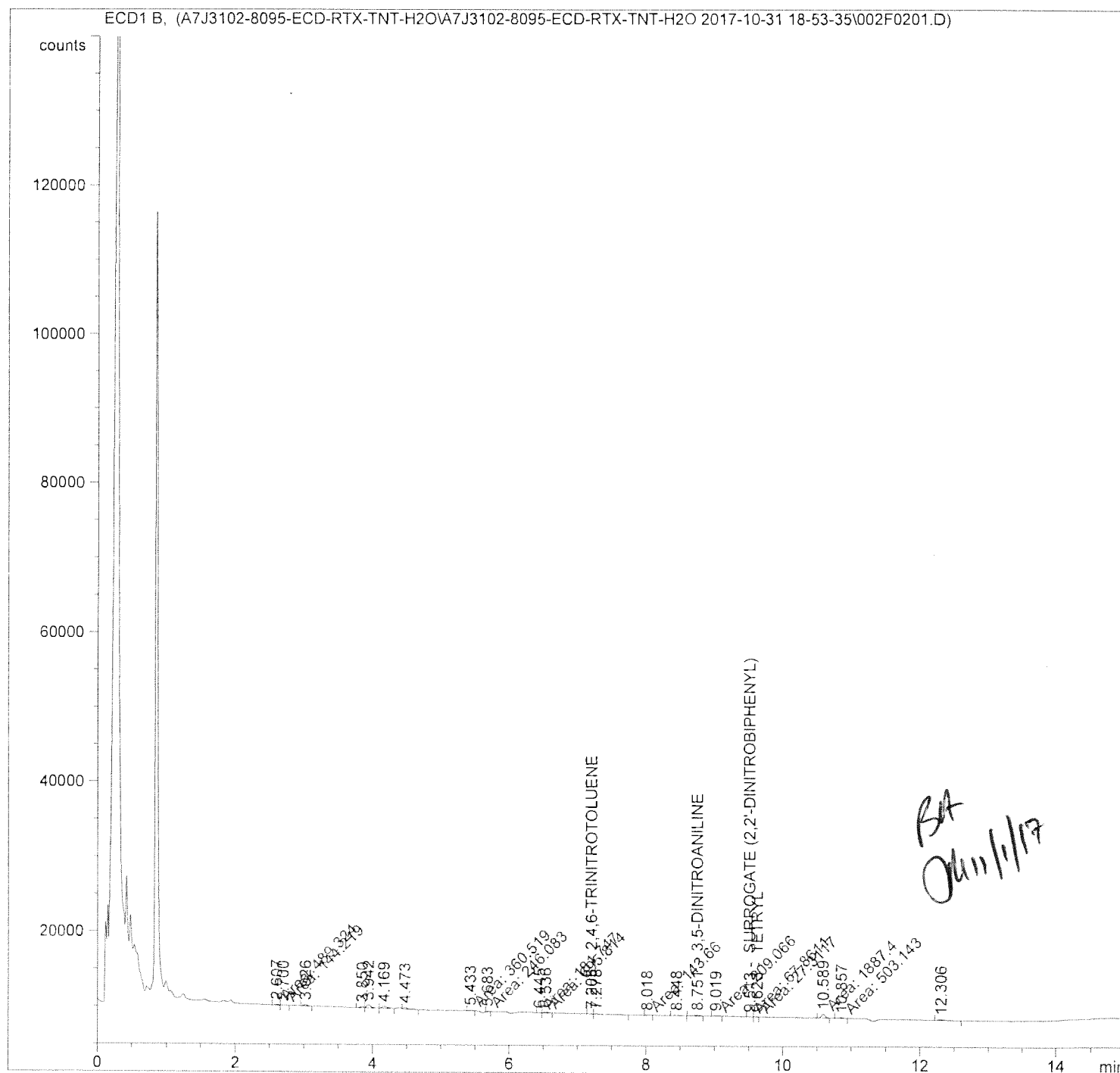
2 Warnings or Errors :

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

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*** End of Report ***

1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	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
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Sample Name: A7J3102-IBL2

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Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3336A52146	Location	: Vial 2
Injection Date	: 10/31/2017 7:17:15 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.206	1		1	-	-	-		NITROBENZENE
2.894	1		1	-	-	-		2-NITROTOLUENE
3.212	1		1	-	-	-		3-NITROTOLUENE
3.359	1		1	-	-	-		4-NITROTOLUENE
4.343	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.625	1		1	-	-	-		NITROGLYCERIN
5.249	1		1	-	-	-		1,3-DINITROBENZENE
5.382	1		1	-	-	-		2,6-DINITROTOLUENE
5.947	1		1	-	-	-		2,4-DINITROTOLUENE
6.341	1		1	-	-	-		3,4-DINITROTOLUENE
7.028	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.205	1	BV	1	45.72440	0.00000	0.00000		2,4,6-TRINITROTOLUENE
7.819	1		1	-	-	-		PETN
8.139	1		1	-	-	-		RDX
8.683	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE
8.751	1	BB	1	111.55525	0.00000	0.00000		3,5-DINITROANILINE
8.996	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.513	1	MM +	1	21.30340	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)
9.623	1	MM	1	9.69875	0.00000	0.00000		TETRYL
12.233	1		1	-	-	-		HMX

Totals without ISTD(s) : 0.00000

=====

Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3336A52146	Location	: Vial 2
Injection Date	: 10/31/2017 7:17:15 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====

2 Warnings or Errors :

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

=====

*** End of Report ***

Sample Name: A7J3102-CAL1

=====

Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3336A52146	Location	: Vial 3
Injection Date	: 10/31/2017 7:38:46 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

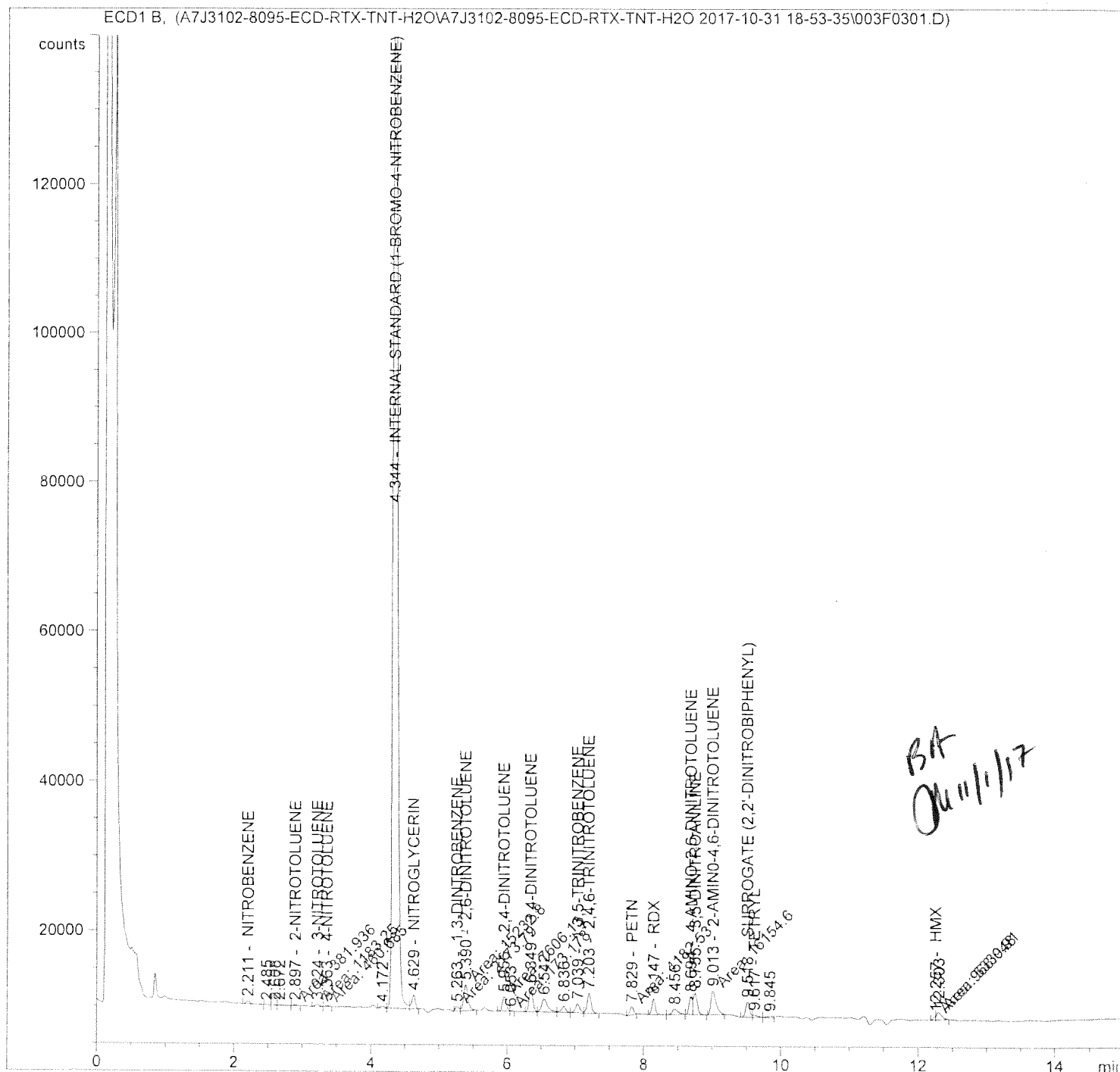
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3336A52146	Location	: Vial 3
Injection Date	: 10/31/2017 7:38:46 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.211	1	BB	1	395.82312	3.82465	1.00675e-3		NITROBENZENE
2.897	1	MM	1	101.46932	14.52154	9.79884e-4		2-NITROTOLUENE
3.224	1	MM	1	270.46201	6.14890	1.10594e-3		3-NITROTOLUENE
3.363	1	MM	1	126.97163	11.14952	9.41435e-4		4-NITROTOLUENE
4.344	1	VV +I	1	1.87968e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.629	1	VB	1	1882.63354	7.92646e-1	9.92368e-4		NITROGLYCERIN
5.263	1	MF	1	592.16132	2.05260	8.08299e-4		1,3-DINITROBENZENE
5.390	1	FM	1	3433.68433	4.47132e-1	1.02099e-3		2,6-DINITROTOLUENE
5.956	1	MF	1	1922.04004	7.71822e-1	9.86522e-4		2,4-DINITROTOLUENE
6.349	1	BV	1	3221.86401	4.64879e-1	9.96034e-4		3,4-DINITROTOLUENE
7.039	1	BV	1	1198.29407	1.19663	9.53566e-4		1,3,5-TRINITROBENZENE
7.203	1	VB	1	2644.60913	5.90855e-1	1.03913e-3		2,4,6-TRINITROTOLUENE
7.829	1	MM	1	1068.03784	1.39431	9.90318e-4		PETN
8.147	1	BB	1	2075.94482	7.04690e-1	9.72840e-4		RDX
8.694	1	BV	1	2348.27588	6.32330e-1	9.87461e-4		4-AMINO-2,6-DINITROTOLUENE
8.755	1	VB	1	2837.42383	5.61119e-1	1.05878e-3		3,5-DINITROANILINE
9.013	1	MM	1	3107.98608	5.10915e-1	1.05598e-3		2-AMINO-4,6-DINITROTOLUENE
9.518	1	BV +	1	2018.44519	7.34646e-1	9.86103e-4		SURROGATE (2,2'-DINITROBIPHENYL)
9.617	1	VB	1	292.08978	5.74872	1.11664e-3		TETRYL
12.257	1	MF	1	498.24625	3.51378	1.16425e-3		HMX

Totals without ISTD(s) : 1.91633e-2

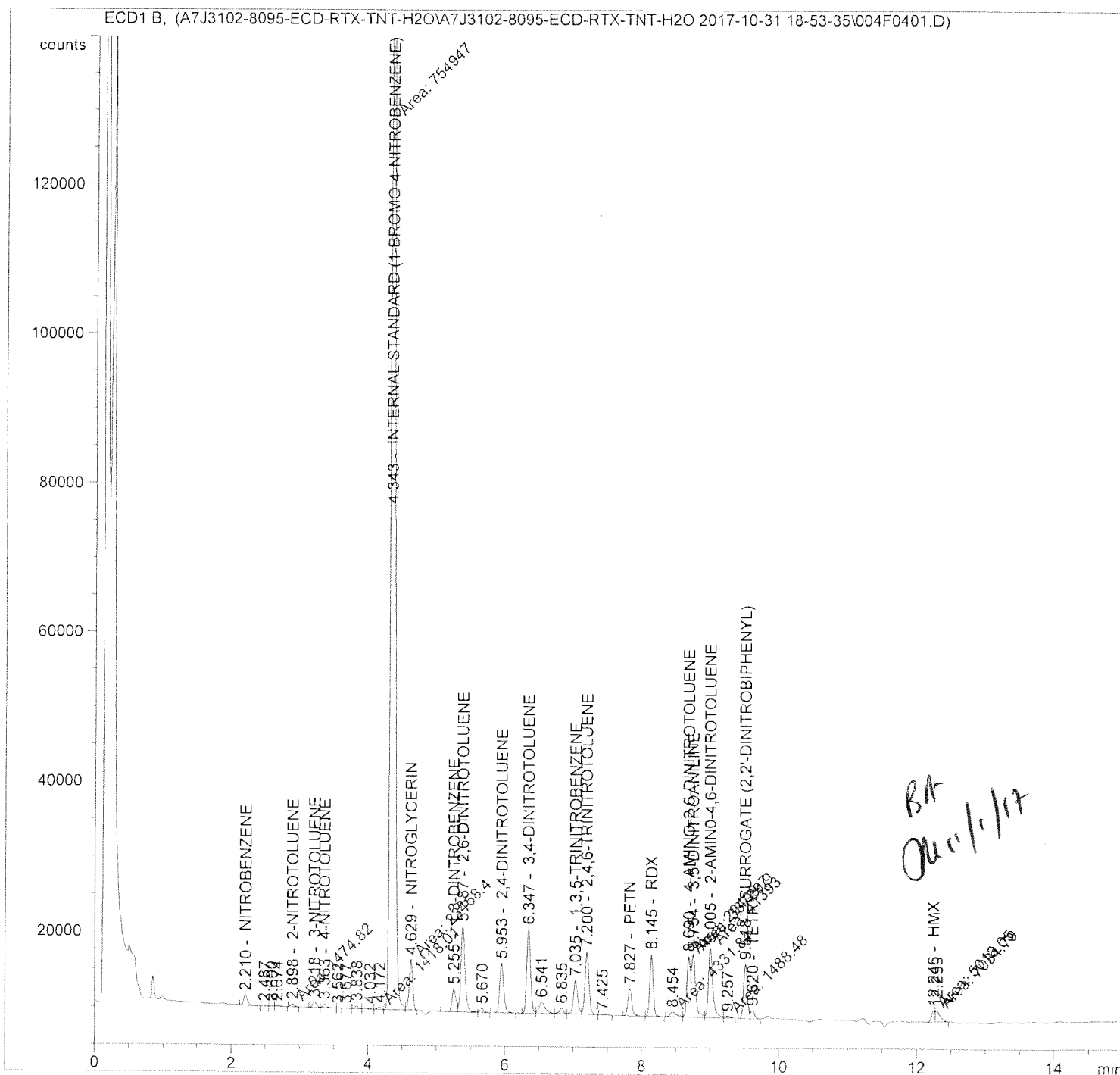
Qual/12

```
=====
Acq. Operator   : JJK                               Seq. Line :    3
Acq. Instrument : 3336A52146                         Location  : Vial 3
Injection Date  : 10/31/2017 7:38:46 PM              Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====
```

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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



=====

Acq. Operator	: JJK	Seq. Line	: 4
Acq. Instrument	: 3336A52146	Location	: Vial 4
Injection Date	: 10/31/2017 8:00:24 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)
---	------------	--

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.210	1	BB	1	1327.54761	4.37374	3.92445e-3		NITROBENZENE
2.898	1	MM	1	382.92453	15.11912	3.91306e-3		2-NITROTOLUENE
3.218	1	BV	1	766.60529	6.99761	3.62575e-3		3-NITROTOLUENE
3.363	1	VV	1	507.83350	11.83294	4.06154e-3		4-NITROTOLUENE
4.343	1	FM +I	1	1.84941e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.629	1	FM	1	6668.38721	8.84918e-1	3.98841e-3		NITROGLYCERIN
5.255	1	BV	1	2999.78027	2.35551	4.77586e-3		1,3-DINITROBENZENE
5.387	1	VV	1	1.13303e4	5.29728e-1	4.05668e-3		2,6-DINITROTOLUENE
5.953	1	BB	1	6499.56836	9.33901e-1	4.10262e-3		2,4-DINITROTOLUENE
6.347	1	BV	1	1.11471e4	5.38838e-1	4.05973e-3		3,4-DINITROTOLUENE
7.035	1	BV	1	4374.78223	1.39404	4.12199e-3		1,3,5-TRINITROBENZENE
7.200	1	VB	1	8310.65723	6.81182e-1	3.82626e-3		2,4,6-TRINITROTOLUENE
7.827	1	BB	1	3559.00439	1.63280	3.92769e-3		PETN
8.145	1	BB	1	8193.83691	7.18369e-1	3.97842e-3		RDX
8.690	1	MF	1	7975.43262	7.60324e-1	4.09854e-3		4-AMINO-2,6-DINITROTOLUENE
8.754	1	FM	1	8346.93066	6.81758e-1	3.84621e-3		3,5-DINITROANILINE
9.005	1	MF	1	9165.81348	6.21459e-1	3.84999e-3		2-AMINO-4,6-DINITROTOLUENE
9.518	1	BV +	1	7142.79443	8.07119e-1	3.89657e-3		SURROGATE (2,2'-DINITROBIPHENYL)
9.620	1	VB	1	1112.11255	4.53058	3.40548e-3		TETRYL
12.246	1	MF	1	1440.89038	3.59698	3.50304e-3		HMX

Totals without ISTD(s) : 7.49623e-2

=====

Acq. Operator	: JJK	Seq. Line	: 4
Acq. Instrument	: 3336A52146	Location	: Vial 4
Injection Date	: 10/31/2017 8:00:24 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 5
Acq. Instrument	: 3336A52146	Location	: Vial 5
Injection Date	: 10/31/2017 8:21:50 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

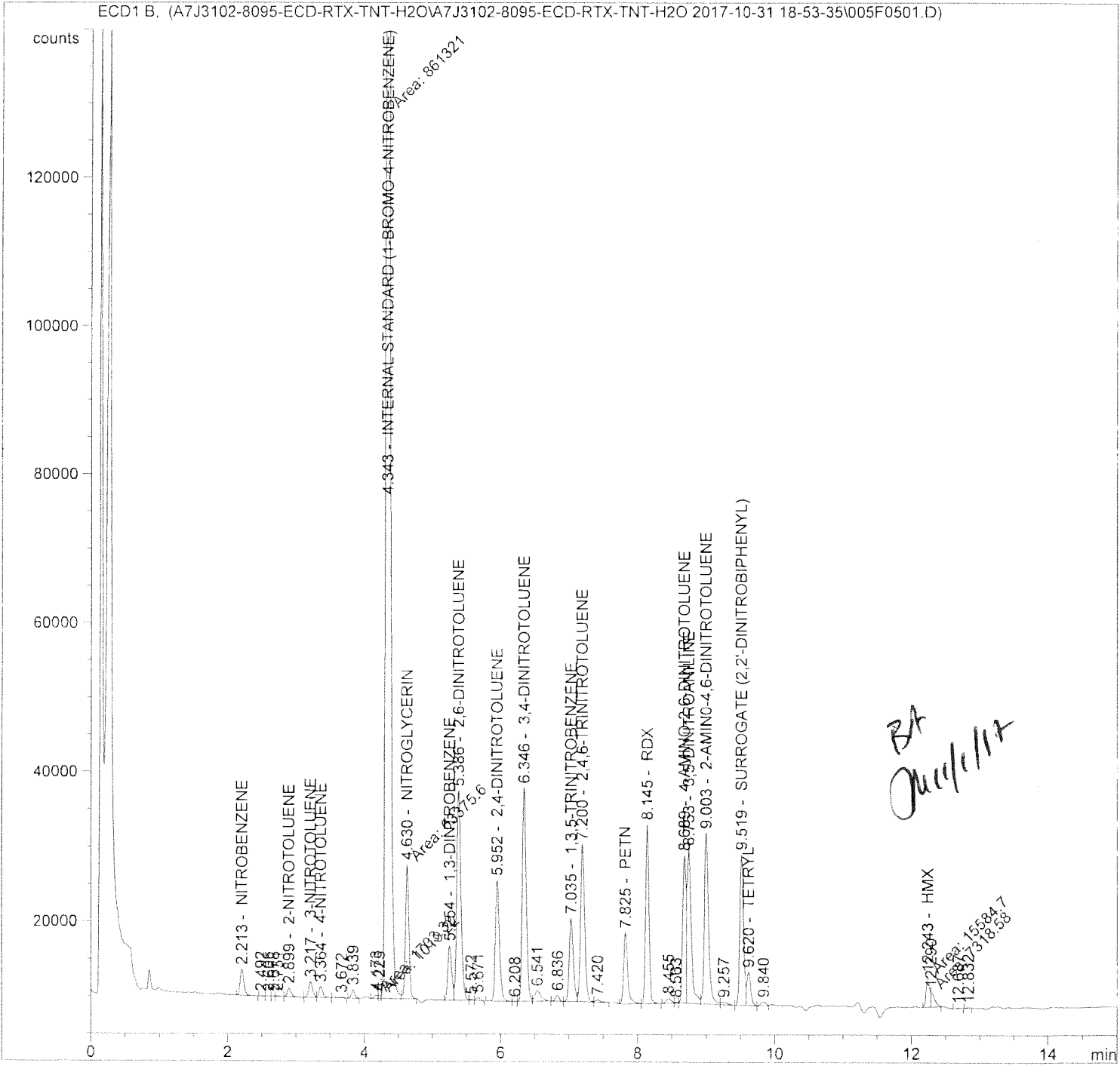
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 5
Acq. Instrument	: 3336A52146	Location	: Vial 5
Injection Date	: 10/31/2017 8:21:50 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.213	1	BB	1	3507.21655	4.79499	9.97209e-3		NITROBENZENE
2.899	1	BB	1	1133.28601	15.55813	1.04552e-2		2-NITROTOLUENE
3.217	1	BV	1	2065.95679	7.77349	9.52299e-3		3-NITROTOLUENE
3.364	1	VB	1	1438.01318	12.29864	1.04871e-2		4-NITROTOLUENE
4.343	1	FM +I	1	2.10802e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.630	1	FM	1	1.79326e4	9.52685e-1	1.01304e-2		NITROGLYCERIN
5.254	1	BV	1	7276.39453	2.50978	1.08290e-2		1,3-DINITROBENZENE
5.386	1	VV	1	2.79417e4	5.90207e-1	9.77895e-3		2,6-DINITROTOLUENE
5.952	1	BV	1	1.60826e4	1.05263	1.00385e-2		2,4-DINITROTOLUENE
6.346	1	BV	1	2.85155e4	5.92487e-1	1.00183e-2		3,4-DINITROTOLUENE
7.035	1	BV	1	1.11059e4	1.53028	1.00776e-2		1,3,5-TRINITROBENZENE
7.200	1	VV	1	2.09965e4	7.50948e-1	9.34960e-3		2,4,6-TRINITROTOLUENE
7.825	1	BV	1	9473.51465	1.82224	1.02365e-2		PETN
8.145	1	VB	1	2.38833e4	7.27763e-1	1.03067e-2		RDX
8.689	1	BV	1	1.96770e4	8.52896e-1	9.95154e-3		4-AMINO-2,6-DINITROTOLUENE
8.753	1	VV	1	2.04394e4	7.81053e-1	9.46640e-3		3,5-DINITROANILINE
9.003	1	VV	1	2.27723e4	7.14153e-1	9.64350e-3		2-AMINO-4,6-DINITROTOLUENE
9.519	1	BV +	1	2.01161e4	8.62605e-1	1.02894e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.620	1	VB	1	4453.41455	3.63181	9.59074e-3		TETRYL
12.243	1	MF	1	4069.44995	3.66852	8.85243e-3		HMX

Totals without ISTD(s) : 1.88997e-1

OK 11/1/17

Sample Name: A7J3102-CAL3

```
=====
Acq. Operator   : JJK                               Seq. Line :    5
Acq. Instrument : 3336A52146                         Location  : Vial 5
Injection Date  : 10/31/2017 8:21:50 PM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
```

1 Warnings or Errors :

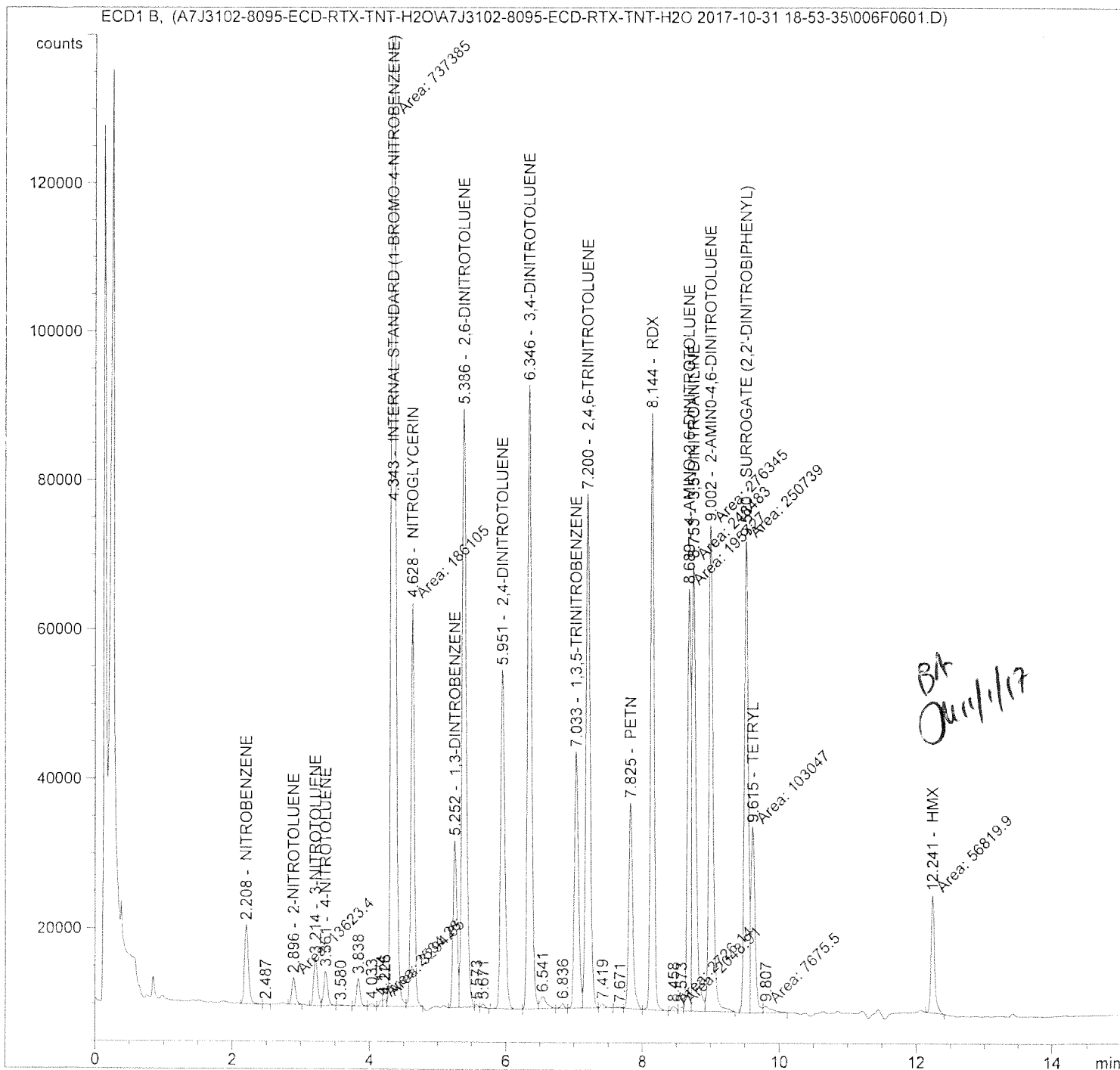
Warning : Calibration warnings (see calibration table listing)

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

=====

Acq. Operator	: JJK	Seq. Line	: 6
Acq. Instrument	: 3336A52146	Location	: Vial 6
Injection Date	: 10/31/2017 8:43:07 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====



=====

Acq. Operator	: JJK	Seq. Line	: 6
Acq. Instrument	: 3336A52146	Location	: Vial 6
Injection Date	: 10/31/2017 8:43:07 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.208	1	BV	1	1.05541e4	5.50386	4.03696e-2		NITROBENZENE
2.896	1	MM	1	3582.94141	16.18159	4.02930e-2		2-NITROTOLUENE
3.214	1	BV	1	6283.10693	9.07963	3.96471e-2		3-NITROTOLUENE
3.361	1	VB	1	4575.49951	13.00483	4.13534e-2		4-NITROTOLUENE
4.343	1	FM +I	1	1.79863e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.628	1	FM	1	5.40212e4	1.06181	3.98638e-2		NITROGLYCERIN
5.252	1	BV	1	2.22899e4	2.79425	4.32853e-2		1,3-DINITROBENZENE
5.386	1	VV	1	8.00900e4	6.99396e-1	3.89287e-2		2,6-DINITROTOLUENE
5.951	1	BB	1	4.52687e4	1.26564	3.98178e-2		2,4-DINITROTOLUENE
6.346	1	BV	1	8.35355e4	6.84824e-1	3.97574e-2		3,4-DINITROTOLUENE
7.033	1	BV	1	3.41684e4	1.77679	4.21919e-2		1,3,5-TRINITROBENZENE
7.200	1	VV	1	6.87200e4	8.85394e-1	4.22852e-2		2,4,6-TRINITROTOLUENE
7.825	1	VB	1	2.74152e4	2.13431	4.06647e-2		PETN
8.144	1	BB	1	7.98805e4	7.41652e-1	4.11727e-2		RDX
8.689	1	MF	1	5.64046e4	1.02141	4.00390e-2		4-AMINO-2,6-DINITROTOLUENE
8.753	1	FM	1	5.98693e4	9.72583e-1	4.04668e-2		3,5-DINITROANILINE
9.002	1	FM	1	6.48432e4	8.85480e-1	3.99035e-2		2-AMINO-4,6-DINITROTOLUENE
9.520	1	MF +	1	6.30362e4	9.49158e-1	4.15812e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.615	1	FM	1	2.47420e4	2.61178	4.49096e-2		TETRYL
12.241	1	MM	1	1.56229e4	3.79025	4.11527e-2		HMX

Totals without ISTD(s) : 7.77683e-1

Handwritten signature

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Acq. Operator	: JJK	Seq. Line	: 6
Acq. Instrument	: 3336A52146	Location	: Vial 6
Injection Date	: 10/31/2017 8:43:07 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 7
Acq. Instrument	: 3336A52146	Location	: Vial 7
Injection Date	: 10/31/2017 9:04:34 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

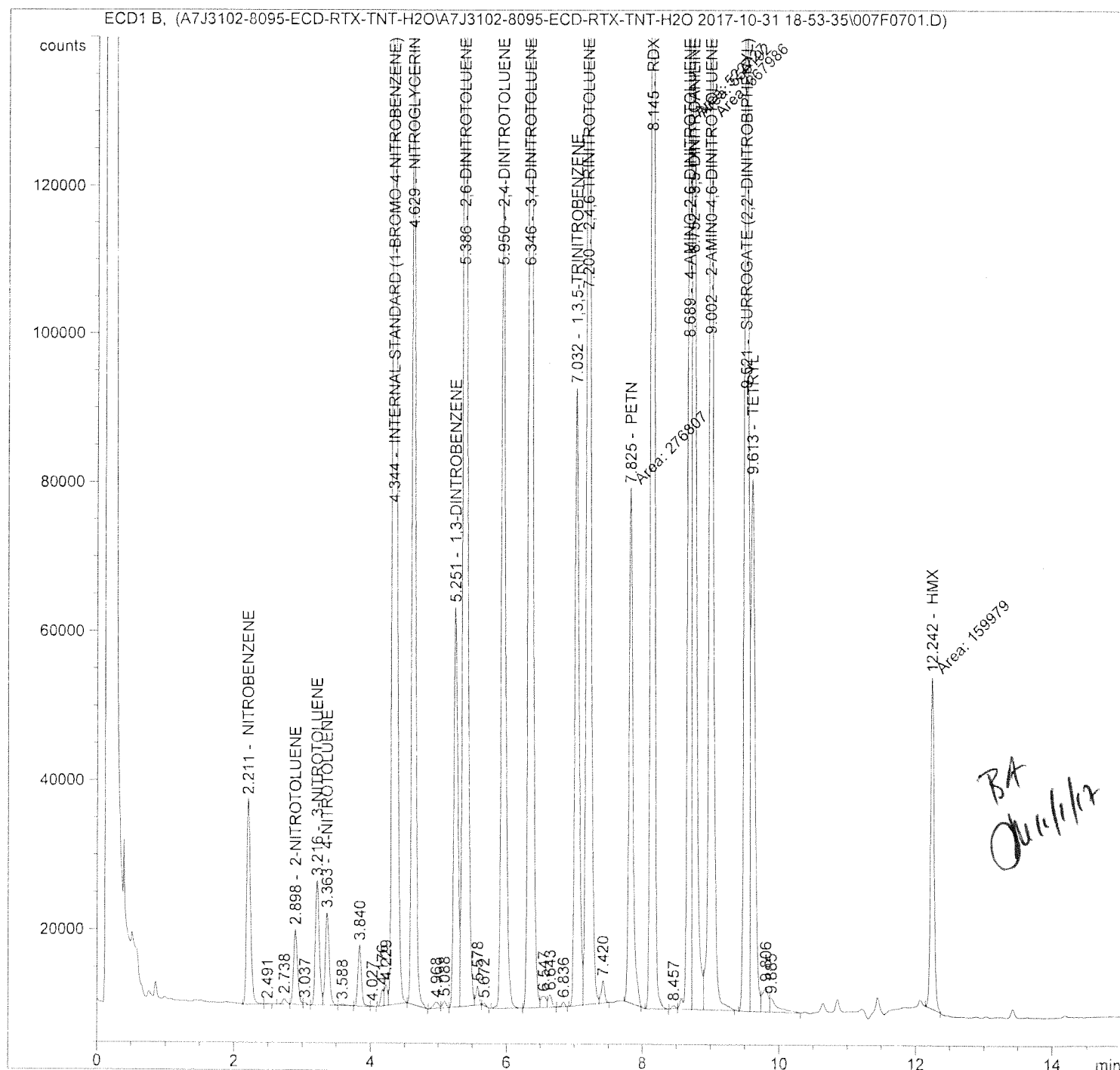
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

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Sorted By           :           Retention Time
Calib. Data Modified :           Wednesday, November 01, 2017 10:24:43 AM
Multiplier:         :           1.0000
Dilution:           :           1.0000
Sample Amount:       :           1.000000 [] (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
2.211	1	BV	1	2.74393e4	6.03454	1.02679e-1		NITROBENZENE
2.898	1	VV	1	9994.77148	16.63036	1.03072e-1		2-NITROTOLUENE
3.216	1	BV	1	1.65811e4	10.08135	1.03657e-1		3-NITROTOLUENE
3.363	1	VB	1	1.22916e4	13.49615	1.02869e-1		4-NITROTOLUENE
4.344	1	VB	+I	2.01579e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.629	1	BB	1	1.43035e5	1.14326	1.01403e-1		NITROGLYCERIN
5.251	1	BV	1	5.34849e4	2.97876	9.87946e-2		1,3-DINITROBENZENE
5.386	1	VV	1	1.99660e5	7.82277e-1	9.68540e-2		2,6-DINITROTOLUENE
5.950	1	BB	1	1.09938e5	1.42615	9.72250e-2		2,4-DINITROTOLUENE
6.346	1	BV	1	2.08659e5	7.52395e-1	9.73529e-2		3,4-DINITROTOLUENE
7.032	1	BV	1	8.26891e4	1.94343	9.96515e-2		1,3,5-TRINITROBENZENE
7.200	1	VV	1	1.76208e5	9.79873e-1	1.07068e-1		2,4,6-TRINITROTOLUENE
7.825	1	MM	1	6.89476e4	2.36969	1.01315e-1		PETN
8.145	1	BB	1	2.16646e5	7.50778e-1	1.00862e-1		RDX
8.689	1	MF	1	1.38414e5	1.14773	9.85112e-2		4-AMINO-2,6-DINITROTOLUENE
8.752	1	FM	1	1.45877e5	1.11660	1.01007e-1		3,5-DINITROANILINE
9.002	1	FM	1	1.57420e5	1.01643	9.92205e-2		2-AMINO-4,6-DINITROTOLUENE
9.521	1	BV	+	1.61070e5	1.00843	1.00723e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.613	1	VV	1	7.12044e4	2.21239	9.76866e-2		TETRYL
12.242	1	MM	1	4.43032e4	3.86740	1.06248e-1		HMX

Totals without ISTD(s) : 1.91620

```
=====
Acq. Operator   : JJK                               Seq. Line :    7
Acq. Instrument : 3336A52146                         Location  : Vial 7
Injection Date  : 10/31/2017 9:04:34 PM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====
```

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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

=====

Acq. Operator	: JJK	Seq. Line	: 8
Acq. Instrument	: 3336A52146	Location	: Vial 8
Injection Date	: 10/31/2017 9:26:03 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

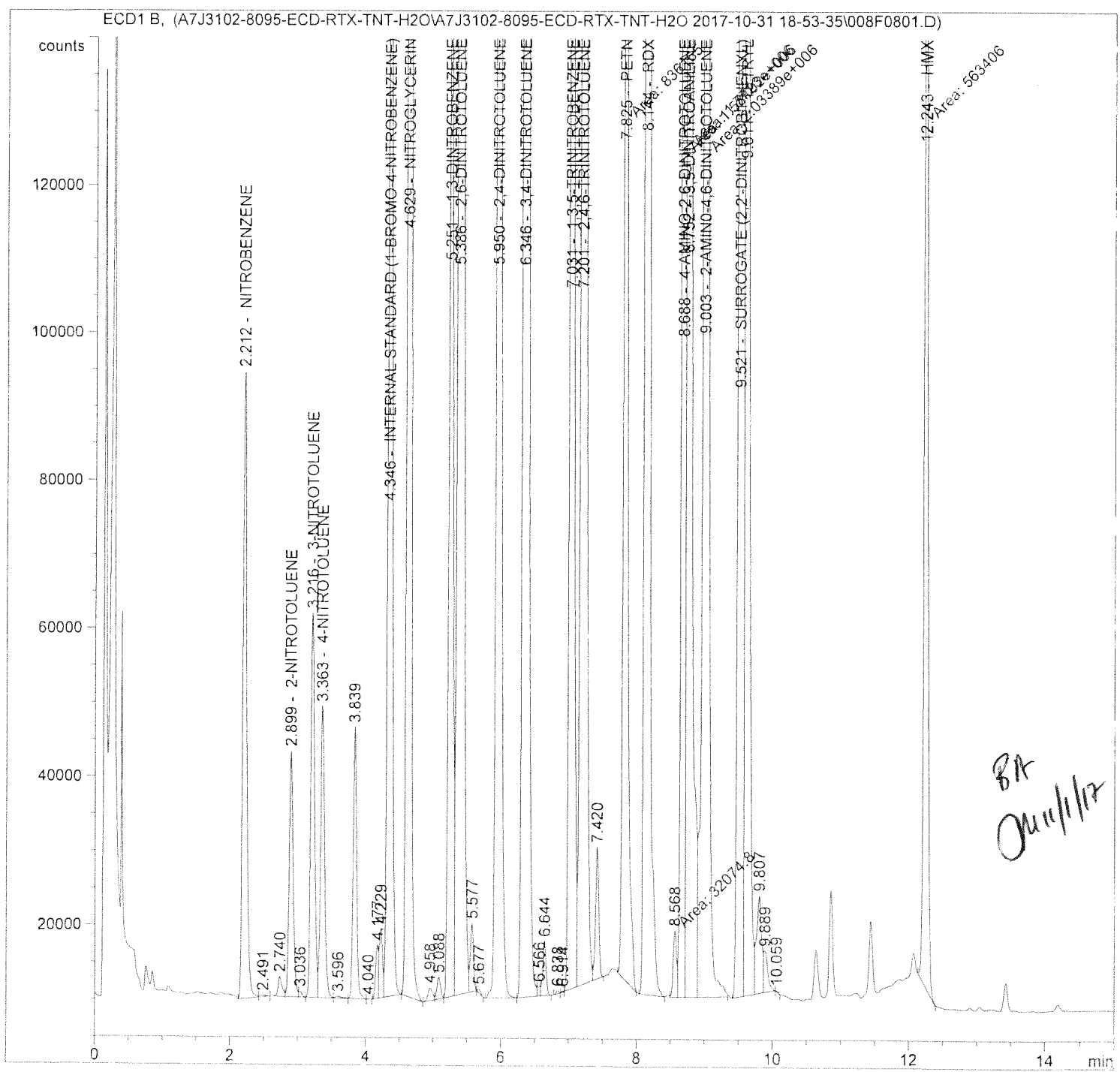
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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 Name: A7J3102-CAL6

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=====
Acq. Operator   : JJK                               Seq. Line :    8
Acq. Instrument : 3336A52146                         Location  : Vial 8
Injection Date  : 10/31/2017 9:26:03 PM              Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====

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=====
Internal Standard Report
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Sorted By           :      Retention Time
Calib. Data Modified :      Wednesday, November 01, 2017 10:24:43 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)

```

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.212	1	BV	1	8.45786e4	6.88651	3.91884e-1		NITROBENZENE
2.899	1	VV	1	3.30628e4	17.28027	3.84404e-1		2-NITROTOLUENE
3.216	1	BV	1	5.17937e4	11.70296	4.07822e-1		3-NITROTOLUENE
3.363	1	VV	1	3.91988e4	14.22586	3.75188e-1		4-NITROTOLUENE
4.346	1	VB +I	1	1.85786e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.629	1	BB	1	4.60970e5	1.27315	3.94866e-1		NITROGLYCERIN
5.251	1	BV	1	1.61671e5	3.29128	3.58010e-1		1,3-DINITROBENZENE
5.386	1	VV	1	6.65090e5	9.36546e-1	4.19089e-1		2,6-DINITROTOLUENE
5.950	1	BB	1	3.50166e5	1.72710	4.06901e-1		2,4-DINITROTOLUENE
6.346	1	BV	1	6.93578e5	8.74690e-1	4.08176e-1		3,4-DINITROTOLUENE
7.031	1	BV	1	2.55295e5	2.23723	3.84283e-1		1,3,5-TRINITROBENZENE
7.201	1	VV	1	5.02290e5	1.12523	3.80271e-1		2,4,6-TRINITROTOLUENE
7.825	1	MM	1	2.09668e5	2.76563	3.90141e-1		PETN
8.144	1	BB	1	7.50929e5	7.64667e-1	3.86339e-1		RDX
8.688	1	FM	1	4.34721e5	1.37741	4.02877e-1		4-AMINO-2,6-DINITROTOLUENE
8.752	1	MF	1	4.38201e5	1.37764	4.06168e-1		3,5-DINITROANILINE
9.003	1	FM	1	4.85936e5	1.26108	4.12304e-1		2-AMINO-4,6-DINITROTOLUENE
9.521	1	BV +	1	5.19552e5	1.10569	3.86510e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.611	1	VV	1	2.30370e5	1.77376	2.74926e-1		TETRYL
12.243	1	MM	1	1.51438e5	3.97901	4.05423e-1		HMX

Totals without ISTD(s) : 7.37558

Sample Name: A7J3102-CAL6

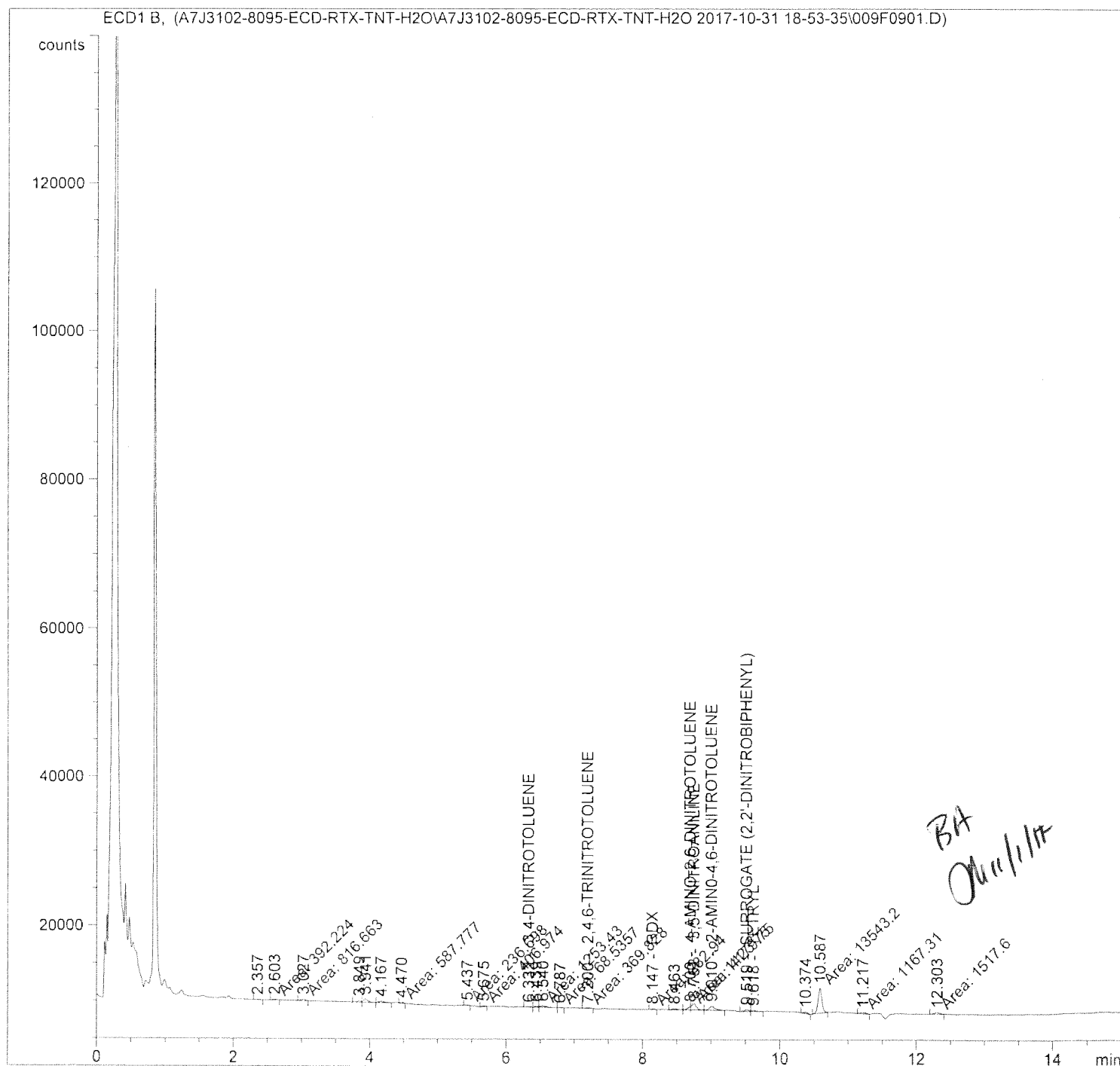
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Acq. Operator   : JJK                      Seq. Line :    8
Acq. Instrument : 3336A52146                Location  : Vial 8
Injection Date  : 10/31/2017 9:26:03 PM      Inj       :    1
                                           Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====
```

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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=====
*** 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	5
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Acq. Operator	: JJK	Seq. Line	: 9
Acq. Instrument	: 3336A52146	Location	: Vial 9
Injection Date	: 10/31/2017 9:47:34 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

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Internal Standard Report

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Sorted By : Retention Time

Calib. Data Modified : Wednesday, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime	Sig	Type	ISTD	Height	Amt/Height	Amount	Grp	Name
[min]			used	[counts]	ratio			
2.207	1		1	-	-	-		NITROBENZENE
2.896	1		1	-	-	-		2-NITROTOLUENE
3.214	1		1	-	-	-		3-NITROTOLUENE
3.361	1		1	-	-	-		4-NITROTOLUENE
4.343	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.628	1		1	-	-	-		NITROGLYCERIN
5.252	1		1	-	-	-		1,3-DINITROBENZENE
5.386	1		1	-	-	-		2,6-DINITROTOLUENE
5.950	1		1	-	-	-		2,4-DINITROTOLUENE
6.332	1	BB	1	52.71098	0.00000	0.00000		3,4-DINITROTOLUENE
7.033	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.200	1	MM	1	82.10696	0.00000	0.00000		2,4,6-TRINITROTOLUENE
7.824	1		1	-	-	-		PETN
8.147	1	MM	1	79.53027	0.00000	0.00000		RDX
8.700	1	MF	1	442.70728	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE
8.752	1	FM	1	852.81921	0.00000	0.00000		3,5-DINITROANILINE
9.010	1	VB	1	522.31250	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE
9.519	1	BV +	1	208.29379	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)
9.618	1	VB	1	121.72689	0.00000	0.00000		TETRYL
12.240	1		1	-	-	-		HMX

Totals without ISTD(s) : 0.00000

=====

Acq. Operator	: JJK	Seq. Line	: 9
Acq. Instrument	: 3336A52146	Location	: Vial 9
Injection Date	: 10/31/2017 9:47:34 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

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	: 12
Acq. Instrument	: 3336A52146	Location	: Vial 12
Injection Date	: 10/31/2017 10:51:38 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

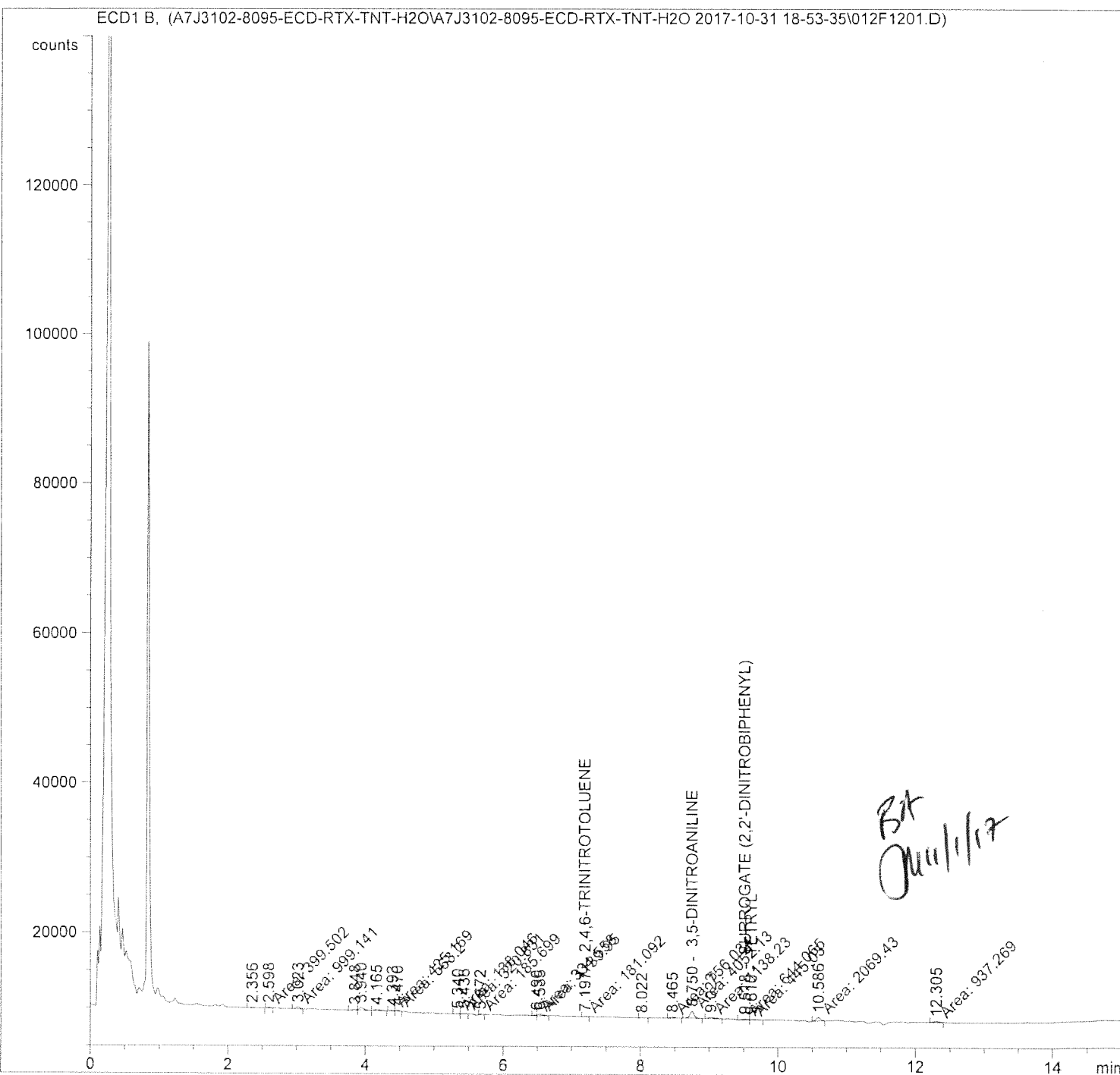
Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3336A52146	Location	: Vial 12
Injection Date	: 10/31/2017 10:51:38 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Wednesday, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.207	1		1	-	-	-		NITROBENZENE
2.896	1		1	-	-	-		2-NITROTOLUENE
3.214	1		1	-	-	-		3-NITROTOLUENE
3.361	1		1	-	-	-		4-NITROTOLUENE
4.343	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.628	1		1	-	-	-		NITROGLYCERIN
5.251	1		1	-	-	-		1,3-DINITROBENZENE
5.385	1		1	-	-	-		2,6-DINITROTOLUENE
5.950	1		1	-	-	-		2,4-DINITROTOLUENE
6.345	1		1	-	-	-		3,4-DINITROTOLUENE
7.032	1		1	-	-	-		1,3,5-TRINITROBENZENE
7.197	1	MM	1	43.92249	0.00000	0.00000		2,4,6-TRINITROTOLUENE
7.823	1		1	-	-	-		PETN
8.143	1		1	-	-	-		RDX
8.688	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE
8.750	1	MM	1	907.61267	0.00000	0.00000		3,5-DINITROANILINE
9.001	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE
9.518	1	MF +	1	109.56862	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)
9.610	1	FM	1	67.22407	0.00000	0.00000		TETRYL
12.239	1		1	-	-	-		HMX

Totals without ISTD(s) : 0.00000

Sample Name: A7J3102-IBL4

```
=====
Acq. Operator   : JJK                               Seq. Line :   12
Acq. Instrument : 3336A52146                         Location  : Vial 12
Injection Date  : 10/31/2017 10:51:38 PM             Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.
=====
```

2 Warnings or Errors :

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

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

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified on: 10/11/2017 at 6:12:28 PM

Method Information

Method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M
Modified: 10/11/2017 at 6:12:28 PM

METHOD 8095 BY ECD, USING A RESTEK RTX-440 6 M BY 0.53 MM ID BY 0.5
UM FILM. (S/N 1161164) 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"

*Acquisition
method*

OK 11/2/17

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: 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	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 Information

Detector A:

Type	ECD
State	ON

Signal Information

Save Data:

Signal 1

Signal 1:

method: C:\Chem32\2\METHODS\8095-ECD-RTX-440.M

Modified on: 10/11/2017 at 6:12:28 PM

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: 10/11/2017 at 6:12:28 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\A7J3102-8095-ECD-RTX-440-H2O.M
Modified on: 11/2/2017 at 10:42:56 AM

Method Information

Method: C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Modified: 11/2/2017 at 10:42:56 AM

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 : RWJ
Date : 11/2/2017 10:17:12 AM
Change Info: This method was created at 11/2/2017 10:17:12 AM and based on
method C:\CHEM32\2\METHODS\A7J1104-8095-ECD-RTX-440-H2O.M

Operator : RWJ
Date : 11/2/2017 10:17:19 AM
Change Info: Method saved. User comment: "CREATED 11/2/17 JJK"

Operator : RWJ
Date : 11/2/2017 10:42:56 AM
Change Info: Method saved. User comment: "UPDATED CAL TABLE 11/2/17 JJK"

*Processing
method*

OK 11/2/17

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	1.386
Integration	OFF	12.823

method: C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Modified on: 11/2/2017 at 10:42:56 AM
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 : Thursday, November 02, 2017 10:42:21 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 (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						
1.563	1	1 1.00000e-3	266.33652	3.75465e-6	1		NITROBENZENE [2C]
		2 4.00000e-3	1041.67090	3.83998e-6			
		3 1.00000e-2	2410.43799	4.14862e-6			
		4 4.00000e-2	9615.95508	4.15975e-6			
		5 1.00000e-1	2.32055e4	4.30932e-6			
		6 4.00000e-1	8.02182e4	4.98640e-6			
2.207	1	1 1.00000e-3	160.85411	6.21681e-6	1		2-NITROTOLUENE [2C]
		2 4.00000e-3	636.91785	6.28024e-6			
		3 1.00000e-2	1540.51843	6.49132e-6			
		4 4.00000e-2	6259.45117	6.39034e-6			
		5 1.00000e-1	1.55315e4	6.43853e-6			
		6 4.00000e-1	5.38758e4	7.42448e-6			
2.542	1	1 1.00000e-3	225.04677	4.44352e-6	1		3-NITROTOLUENE [2C]
		2 4.00000e-3	762.91522	5.24305e-6			
		3 1.00000e-2	1798.12207	5.56136e-6			
		4 4.00000e-2	7025.12549	5.69385e-6			
		5 1.00000e-1	1.70386e4	5.86904e-6			

RetTime [min]	Lvl Sig	Amount	Height	Amt/Height	Ref	Grp Name
2.709	1	6 4.00000e-1	5.82324e4	6.86902e-6		
		1 1.00000e-3	175.70613	5.69132e-6	1	4-NITROTOLUENE [2C]
		2 4.00000e-3	723.70032	5.52715e-6		
		3 1.00000e-2	1763.00952	5.67212e-6		
		4 4.00000e-2	7282.41602	5.49268e-6		
		5 1.00000e-1	1.78403e4	5.60529e-6		
		6 4.00000e-1	6.14329e4	6.51117e-6		
3.790	1	1 1.25000e-1	9.37265e4	1.33367e-6	+I1	INTERNAL STANDARD (1-BROMO-4-NITROBENZ)
		2 1.25000e-1	9.85093e4	1.26892e-6		
		3 1.25000e-1	9.63617e4	1.29720e-6		
		4 1.25000e-1	1.03514e5	1.20757e-6		
		5 1.25000e-1	1.05460e5	1.18528e-6		
		6 1.25000e-1	1.05639e5	1.18328e-6		
4.195	1	1 1.00000e-3	1071.16931	9.33559e-7	1	NITROGLYCERIN [2C]
		2 4.00000e-3	4581.44971	8.73086e-7		
		3 1.00000e-2	1.16646e4	8.57297e-7		
		4 4.00000e-2	4.84520e4	8.25560e-7		
		5 1.00000e-1	1.19085e5	8.39733e-7		
		6 4.00000e-1	4.45733e5	8.97399e-7		
4.870	1	1 1.00000e-3	1353.86255	7.38627e-7	1	2,6-DINITROTOLUENE [2C]
		2 4.00000e-3	5488.57959	7.28786e-7		
		3 1.00000e-2	1.27222e4	7.86024e-7		
		4 4.00000e-2	4.66331e4	8.57760e-7		
		5 1.00000e-1	1.09639e5	9.12085e-7		
		6 4.00000e-1	3.87050e5	1.03346e-6		
4.930	1	1 1.00000e-3	333.04483	3.00260e-6	1	1,3-DINTROBENZENE [2C]
		2 4.00000e-3	1489.20496	2.68600e-6		
		3 1.00000e-2	3825.45654	2.61407e-6		
		4 4.00000e-2	1.46008e4	2.73958e-6		
		5 1.00000e-1	3.69443e4	2.70678e-6		
		6 4.00000e-1	1.69786e5	2.35591e-6		
5.548	1	1 1.00000e-3	710.12964	1.40819e-6	1	2,4-DINITROTOLUENE [2C]
		2 4.00000e-3	2842.50391	1.40721e-6		
		3 1.00000e-2	6733.95117	1.48501e-6		
		4 4.00000e-2	2.51160e4	1.59261e-6		
		5 1.00000e-1	5.94282e4	1.68270e-6		
		6 4.00000e-1	2.09799e5	1.90659e-6		
5.846	1	1 1.00000e-3	1883.41919	5.30949e-7	1	3,4-DINITROTOLUENE [2C]
		2 4.00000e-3	5669.78662	7.05494e-7		
		3 1.00000e-2	1.29041e4	7.74949e-7		
		4 4.00000e-2	4.62326e4	8.65190e-7		
		5 1.00000e-1	1.09875e5	9.10124e-7		
		6 4.00000e-1	3.98527e5	1.00370e-6		
7.103	1	1 1.00000e-3	1094.69226	9.13499e-7	1	2,4,6-TRINITROTOLUENE [2C]
		2 4.00000e-3	4136.64990	9.66966e-7		
		3 1.00000e-2	9779.90137	1.02251e-6		
		4 4.00000e-2	4.10818e4	9.73667e-7		
		5 1.00000e-1	1.02135e5	9.79099e-7		
		6 4.00000e-1	3.30225e5	1.21129e-6		
7.345	1	1 1.00000e-3	471.95041	2.11887e-6	1	1,3,5-TRINITROBENZENE [2C]
		2 4.00000e-3	2161.88940	1.85023e-6		
		3 1.00000e-2	5114.48633	1.95523e-6		
		4 4.00000e-2	2.01028e4	1.98977e-6		
		5 1.00000e-1	4.77171e4	2.09568e-6		
		6 4.00000e-1	1.71067e5	2.33826e-6		
7.414	1	1 1.00000e-3	675.51483	1.48035e-6	1	PETN [2C]
		2 4.00000e-3	2756.51538	1.45111e-6		

RetTime	Lvl	Amount	Height	Amt/Height	Ref	Grp	Name
[min]	Sig						
-----	----	-----	-----	-----	----	----	-----
		3 1.00000e-2	6793.82227	1.47193e-6			
		4 4.00000e-2	2.74959e4	1.45476e-6			
		5 1.00000e-1	6.70071e4	1.49238e-6			
		6 4.00000e-1	2.49888e5	1.60072e-6			
7.944	1	1 1.00000e-3	1105.36169	9.04681e-7	1		RDX [2C]
		2 4.00000e-3	4129.70459	9.68592e-7			
		3 1.00000e-2	1.10849e4	9.02132e-7			
		4 4.00000e-2	5.42538e4	7.37275e-7			
		5 1.00000e-1	1.39689e5	7.15877e-7			
		6 4.00000e-1	5.43954e5	7.35356e-7			
8.298	1	1 1.00000e-3	1204.78308	8.30025e-7	1		4-AMINO-2,6-DINITROTOLUENE [2C]
		2 4.00000e-3	3574.27344	1.11911e-6			
		3 1.00000e-2	8071.32666	1.23895e-6			
		4 4.00000e-2	3.03109e4	1.31966e-6			
		5 1.00000e-1	7.16305e4	1.39605e-6			
		6 4.00000e-1	2.65358e5	1.50740e-6			
8.455	1	1 1.00000e-3	591.62366	1.69026e-6	1		3,5-DINITROANILINE [2C]
		2 4.00000e-3	2692.81250	1.48544e-6			
		3 1.00000e-2	6622.68799	1.50996e-6			
		4 4.00000e-2	2.76746e4	1.44537e-6			
		5 1.00000e-1	6.70392e4	1.49166e-6			
		6 4.00000e-1	2.50205e5	1.59869e-6			
8.620	1	1 1.00000e-3	841.86829	1.18783e-6	1		2-AMINO-4,6-DINITROTOLUENE [2C]
		2 4.00000e-3	3667.23511	1.09074e-6			
		3 1.00000e-2	8888.43359	1.12506e-6			
		4 4.00000e-2	3.54260e4	1.12911e-6			
		5 1.00000e-1	8.12125e4	1.23134e-6			
		6 4.00000e-1	3.11423e5	1.28442e-6			
8.985	1	1 1.00000e-3	847.02405	1.18060e-6	+ 1		SURROGATE (2,2'-DINITROBIPHENYL) [2C]
		2 4.00000e-3	3462.75757	1.15515e-6			
		3 1.00000e-2	8683.64453	1.15159e-6			
		4 4.00000e-2	3.67814e4	1.08751e-6			
		5 1.00000e-1	8.93689e4	1.11896e-6			
		6 4.00000e-1	3.25650e5	1.22831e-6			
9.469	1	1 1.00000e-3	50.61718	1.97561e-5	1		TETRYL [2C]
		2 4.00000e-3	393.69946	1.01600e-5			
		3 1.00000e-2	1711.15564	5.84400e-6			
		4 4.00000e-2	1.15593e4	3.46042e-6			
		5 1.00000e-1	3.39693e4	2.94383e-6			
12.384	1	1 1.00000e-3	53.79658	1.85885e-5	1		HMX [2C]
		2 4.00000e-3	388.10748	1.03064e-5			
		3 1.00000e-2	1237.92334	8.07804e-6			
		4 4.00000e-2	8182.90332	4.88824e-6			
		5 1.00000e-1	2.93708e4	3.40474e-6			
		6 4.00000e-1	1.46553e5	2.72939e-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

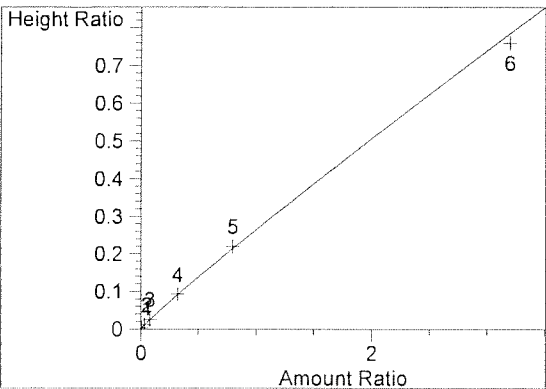
1 Warnings or Errors :

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

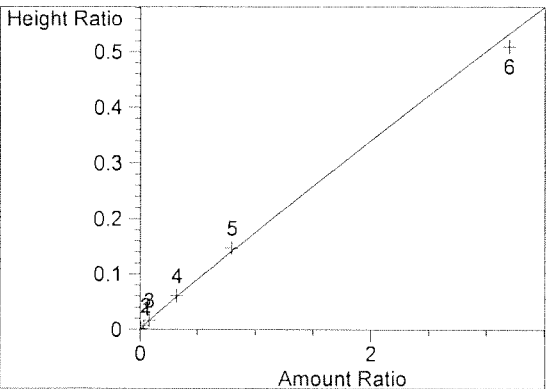
Peak Sum Table

No Entries in table

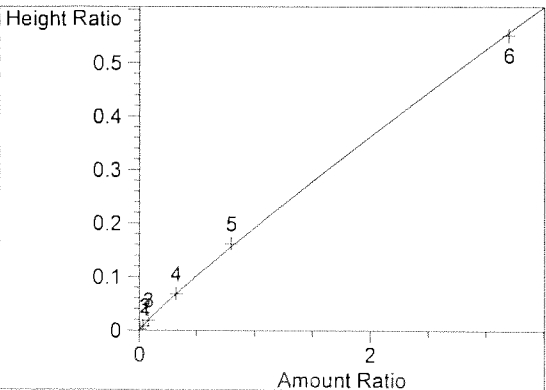
Calibration Curves



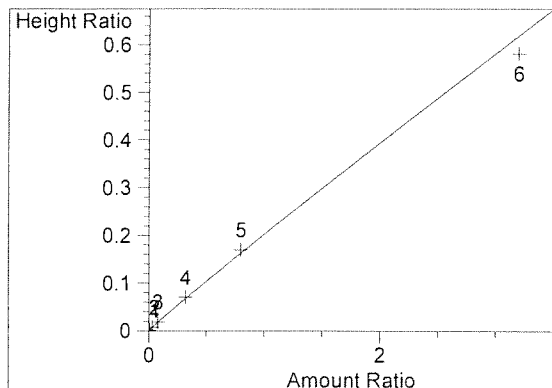
NITROBENZENE [2C] at exp. RT: 1.563
ECD1 A,
Correlation: 0.99986
Residual Std. Dev.: 0.01313
Formula: $y = b * x^m$
m: 9.35444e-1
b: 2.64440e-1
x: Amount
y: Height



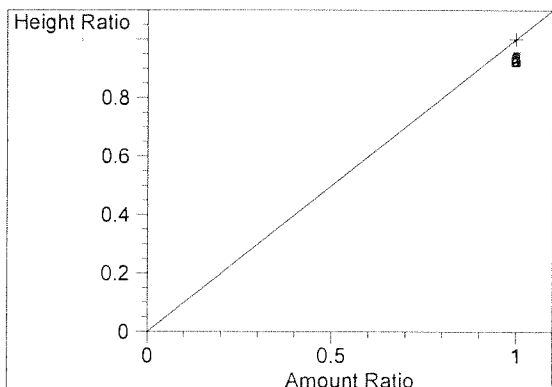
2-NITROTOLUENE [2C] at exp. RT: 2.207
ECD1 A,
Correlation: 0.99973
Residual Std. Dev.: 0.01207
Formula: $y = b * x^m$
m: 9.55219e-1
b: 1.75631e-1
x: Amount
y: Height



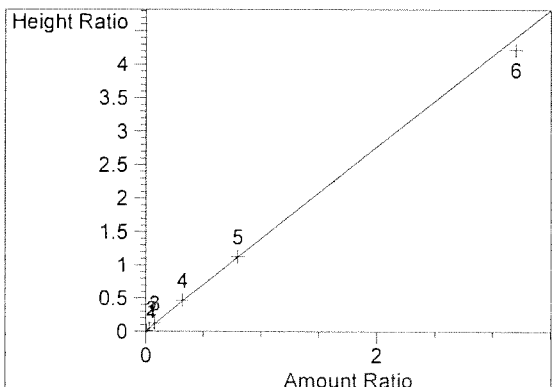
3-NITROTOLUENE [2C] at exp. RT: 2.542
ECD1 A,
Correlation: 0.99992
Residual Std. Dev.: 0.00376
Formula: $y = b * x^m$
m: 9.16128e-1
b: 1.91752e-1
x: Amount
y: Height



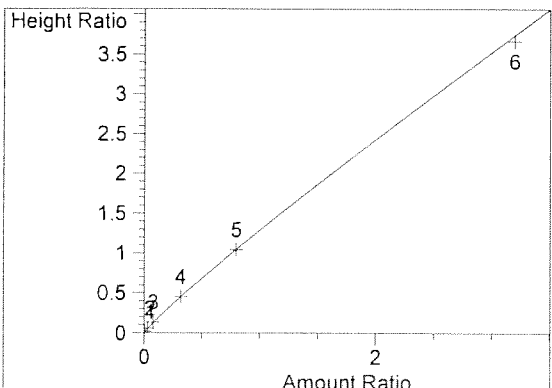
4-NITROTOLUENE [2C] at exp. RT: 2.709
 ECD1 A,
 Correlation: 0.99961
 Residual Std. Dev.: 0.01891
 Formula: $y = b * x^m$
 m: 9.61759e-1
 b: 2.02161e-1
 x: Amount
 y: Height



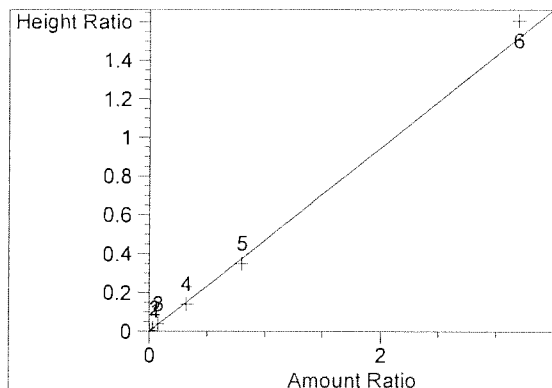
INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C] at exp. RT: 2.709
 ECD1 A,
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount
 y: Height



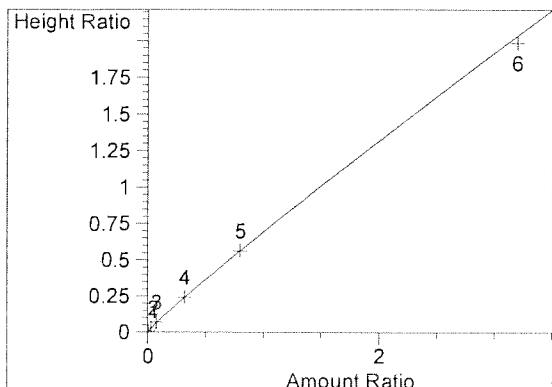
NITROGLYCERIN [2C] at exp. RT: 4.195
 ECD1 A,
 Correlation: 0.99990
 Residual Std. Dev.: 0.09211
 Formula: $y = b * x^m$
 m: 9.87107e-1
 b: 1.39665
 x: Amount
 y: Height



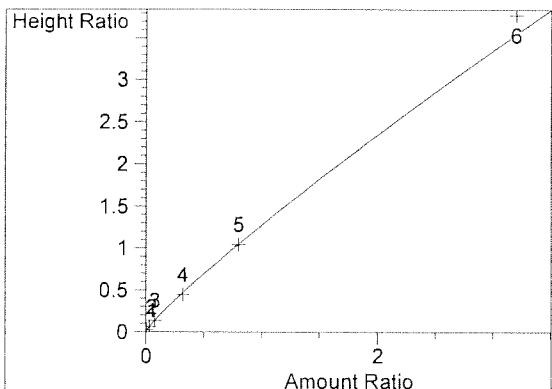
2,6-DINITROTOLUENE [2C] at exp. RT: 4.870
 ECD1 A,
 Correlation: 0.99999
 Residual Std. Dev.: 0.03785
 Formula: $y = b * x^m$
 m: 9.19238e-1
 b: 1.28356
 x: Amount
 y: Height



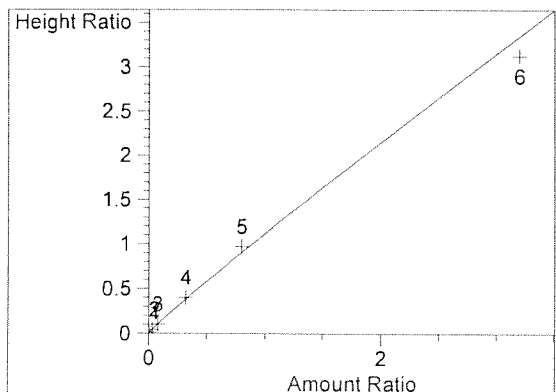
1,3-DINITROBENZENE [2C] at exp. RT: 4.930
ECD1 A,
Correlation: 0.99952
Residual Std. Dev.: 0.04650
Formula: $y = b * x^m$
m: 1.00680
b: 4.70721e-1
x: Amount
y: Height



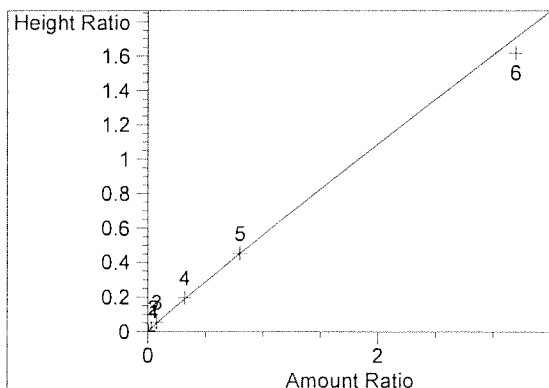
2,4-DINITROTOLUENE [2C] at exp. RT: 5.548
ECD1 A,
Correlation: 0.99997
Residual Std. Dev.: 0.02527
Formula: $y = b * x^m$
m: 9.26869e-1
b: 6.92883e-1
x: Amount
y: Height



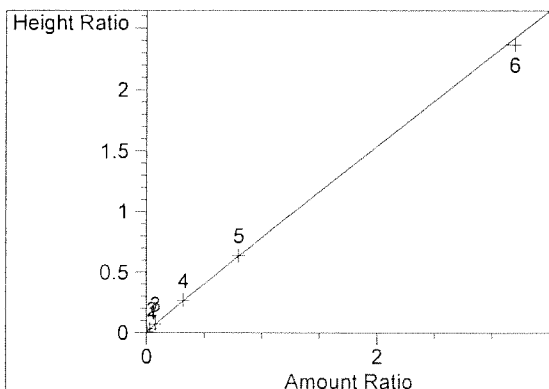
3,4-DINITROTOLUENE [2C] at exp. RT: 5.846
ECD1 A,
Correlation: 0.99978
Residual Std. Dev.: 0.11478
Formula: $y = b * x^m$
m: 8.79136e-1
b: 1.27473
x: Amount
y: Height



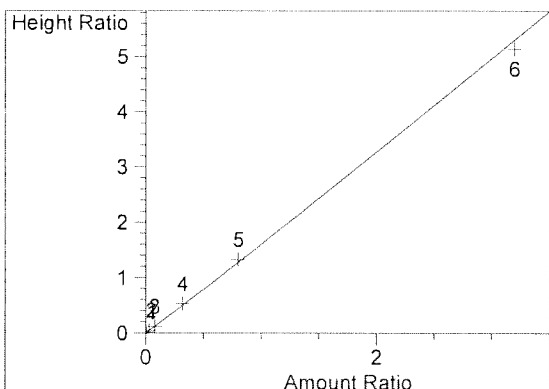
2,4,6-TRINITROTOLUENE [2C] at exp. RT: 7.103
ECD1 A,
Correlation: 0.99917
Residual Std. Dev.: 0.11412
Formula: $y = b * x^m$
m: 9.43994e-1
b: 1.11540
x: Amount
y: Height



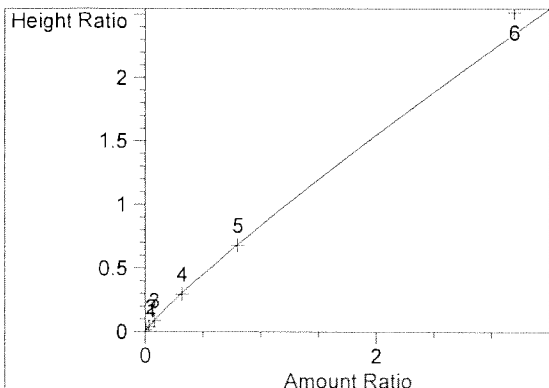
1,3,5-TRINITROBENZENE [2C] at exp. RT: 7.345
 ECD1 A,
 Correlation: 0.99989
 Residual Std. Dev.: 0.04458
 Formula: $y = b * x^m$
 m: 9.57428e-1
 b: 5.60933e-1
 x: Amount
 y: Height



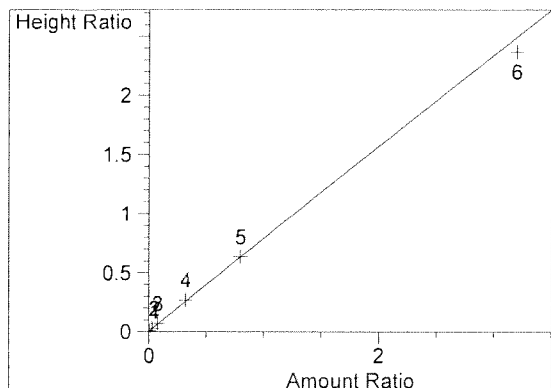
PETN [2C] at exp. RT: 7.414
 ECD1 A,
 Correlation: 0.99997
 Residual Std. Dev.: 0.02818
 Formula: $y = b * x^m$
 m: 9.67249e-1
 b: 7.86132e-1
 x: Amount
 y: Height



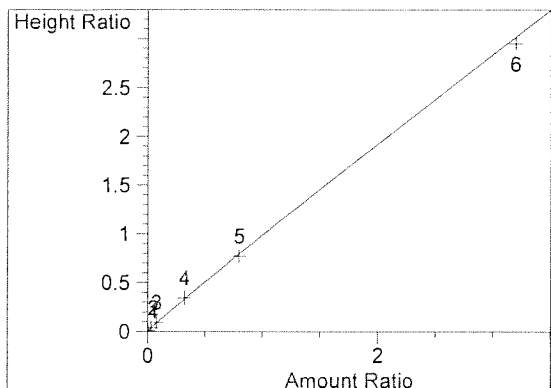
RDX [2C] at exp. RT: 7.944
 ECD1 A,
 Correlation: 0.99982
 Residual Std. Dev.: 0.08584
 Formula: $y = b * x^m$
 m: 1.03028
 b: 1.60204
 x: Amount
 y: Height



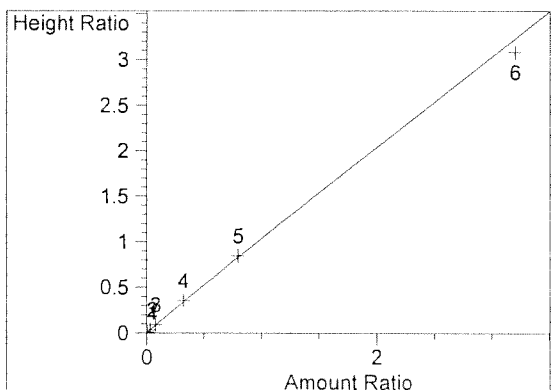
4-AMINO-2,6-DINITROTOLUENE [2C] at exp. RT: 8.298
 ECD1 A,
 Correlation: 0.99975
 Residual Std. Dev.: 0.08408
 Formula: $y = b * x^m$
 m: 8.87718e-1
 b: 8.34808e-1
 x: Amount
 y: Height



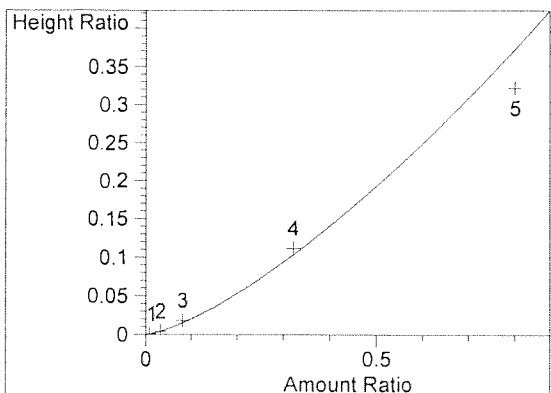
3,5-DINITROANILINE [2C] at exp. RT: 8.455
 ECD1 A,
 Correlation: 0.99989
 Residual Std. Dev.: 0.06182
 Formula: $y = b * x^m$
 m: 9.86412e-1
 b: 7.91052e-1
 x: Amount
 y: Height



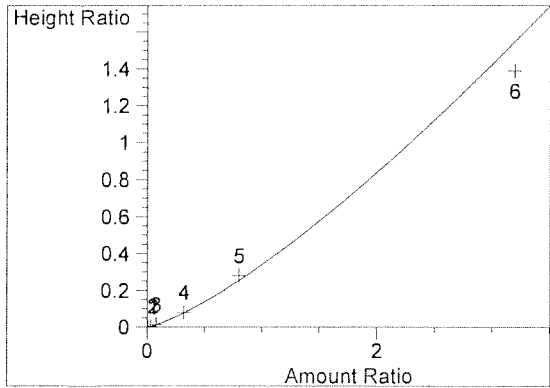
2-AMINO-4,6-DINITROTOLUENE [2C] at exp. RT: 8.620
 ECD1 A,
 Correlation: 0.99997
 Residual Std. Dev.: 0.03785
 Formula: $y = b * x^m$
 m: 9.60581e-1
 b: 9.87262e-1
 x: Amount
 y: Height



SURROGATE (2,2'-DINITROBIPHENYL) [2C] at exp. RT: 8.985
 ECD1 A,
 Correlation: 0.99984
 Residual Std. Dev.: 0.07358
 Formula: $y = b * x^m$
 m: 9.77354e-1
 b: 1.03577
 x: Amount
 y: Height



TETRYL [2C] at exp. RT: 9.469
 ECD1 A,
 Correlation: 0.99753
 Residual Std. Dev.: 0.02954
 Formula: $y = b * x^m$
 m: 1.40039
 b: 5.09115e-1
 x: Amount
 y: Height

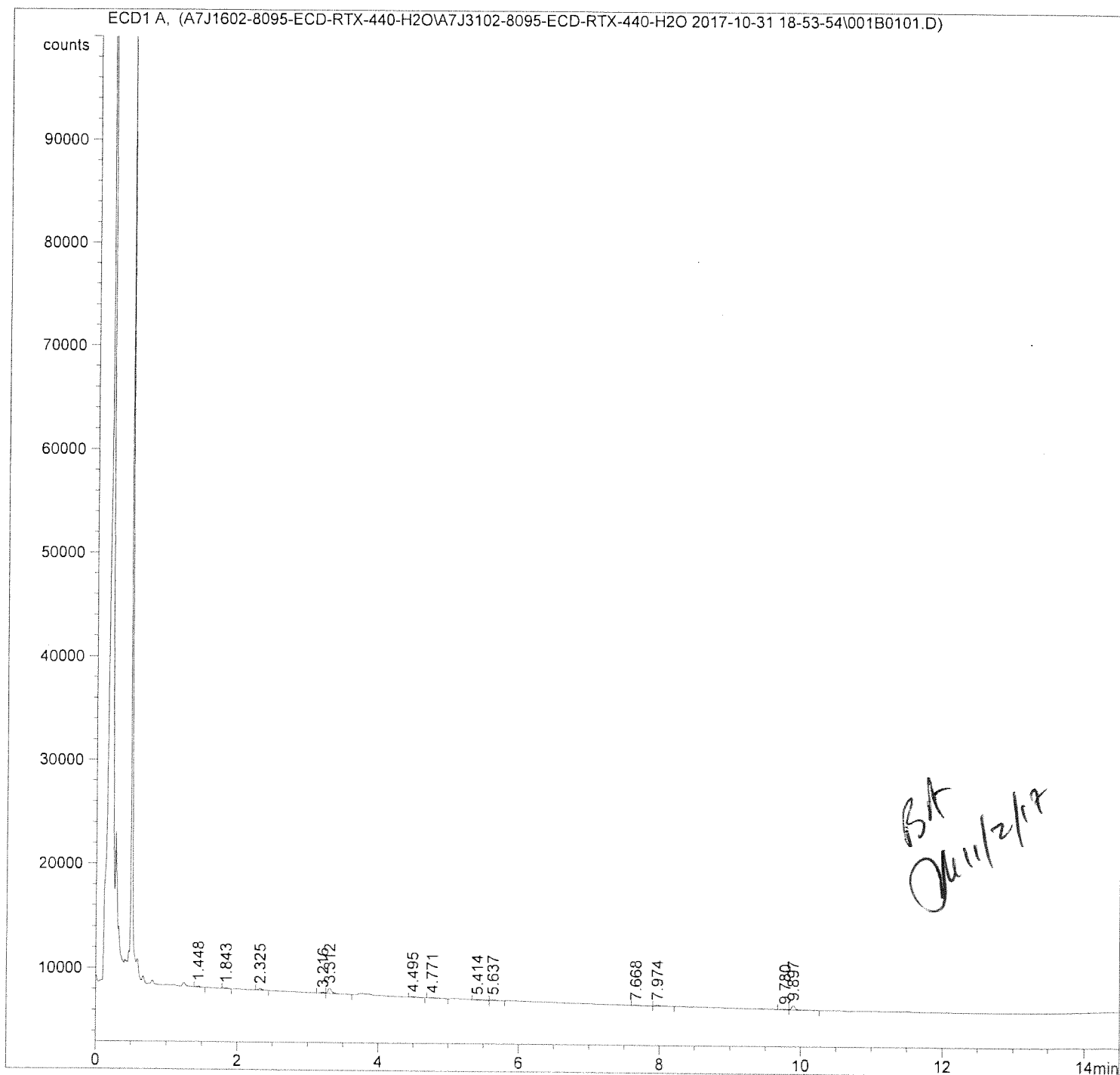


HMX [2C] at exp. RT: 12.384
ECD1 A,
Correlation: 0.99931
Residual Std. Dev.: 0.08151
Formula: $y = b * x^m$
m: 1.30553
b: 3.39145e-1
x: Amount
y: Height

=====

Sample Name: A7J3102-IBL1

```
=====
Acq. Operator   : JJK                               Seq. Line :    1
Acq. Instrument : 3337G12416                         Location  : Vial 1
Injection Date  : 10/31/2017 6:55:42 PM                Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
=====
```



=====

Acq. Operator	: JJK	Seq. Line	: 1
Acq. Instrument	: 3337G12416	Location	: Vial 1
Injection Date	: 10/31/2017 6:55:42 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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
1.563	1		1	-	-	-		NITROBENZENE [2C]
2.207	1		1	-	-	-		2-NITROTOLUENE [2C]
2.542	1		1	-	-	-		3-NITROTOLUENE [2C]
2.709	1		1	-	-	-		4-NITROTOLUENE [2C]
3.790	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.195	1		1	-	-	-		NITROGLYCERIN [2C]
4.870	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
4.930	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.548	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
5.846	1		1	-	-	-		3,4-DINITROTOLUENE [2C]
7.103	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.345	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.414	1		1	-	-	-		PETN [2C]
7.944	1		1	-	-	-		RDX [2C]
8.298	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE [2C]
8.455	1		1	-	-	-		3,5-DINITROANILINE [2C]
8.620	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
8.985	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.469	1		1	-	-	-		TETRYL [2C]
12.384	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 0.00000

Sample Name: A7J3102-IBL1

```

=====
Acq. Operator   : JJK                               Seq. Line :    1
Acq. Instrument : 3337G12416                         Location  : Vial 1
Injection Date  : 10/31/2017 6:55:42 PM              Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
=====

```

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 :      Thursday, November 02, 2017 10:42:21 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	1.563	1		0.00000	0.00000	NITROBENZENE [2C]
2	2.207	1		0.00000	0.00000	2-NITROTOLUENE [2C]
3	2.542	1		0.00000	0.00000	3-NITROTOLUENE [2C]
4	2.709	1		0.00000	0.00000	4-NITROTOLUENE [2C]
5	3.790	1	+I	0.00000	0.00000	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
6	4.195	1		0.00000	0.00000	NITROGLYCERIN [2C]
7	4.870	1		0.00000	0.00000	2,6-DINITROTOLUENE [2C]
8	4.930	1		0.00000	0.00000	1,3-DINTROBENZENE [2C]
9	5.548	1		0.00000	0.00000	2,4-DINITROTOLUENE [2C]
10	5.846	1		0.00000	0.00000	3,4-DINITROTOLUENE [2C]
11	7.103	1		0.00000	0.00000	2,4,6-TRINITROTOLUENE [2C]
12	7.345	1		0.00000	0.00000	1,3,5-TRINITROBENZENE [2C]
13	7.414	1		0.00000	0.00000	PETN [2C]
14	7.944	1		0.00000	0.00000	RDX [2C]
15	8.298	1		0.00000	0.00000	4-AMINO-2,6-DINITROTOLUENE [2C]
16	8.455	1		0.00000	0.00000	3,5-DINITROANILINE [2C]
17	8.620	1		0.00000	0.00000	2-AMINO-4,6-DINITROTOLUENE [2C]
18	8.985	1	+	0.00000	0.00000	SURROGATE (2,2'-DINITROBIPHENYL) [2C]
19	9.469	1		0.00000	0.00000	TETRYL [2C]
20	12.384	1		0.00000	0.00000	HMX [2C]

Sample Name: A7J3102-IBL1

```
=====
Acq. Operator   : JJK                               Seq. Line :    1
Acq. Instrument : 3337G12416                         Location  : Vial 1
Injection Date  : 10/31/2017 6:55:42 PM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
=====
```

```
=====
Totals :                               0.00000
=====
```

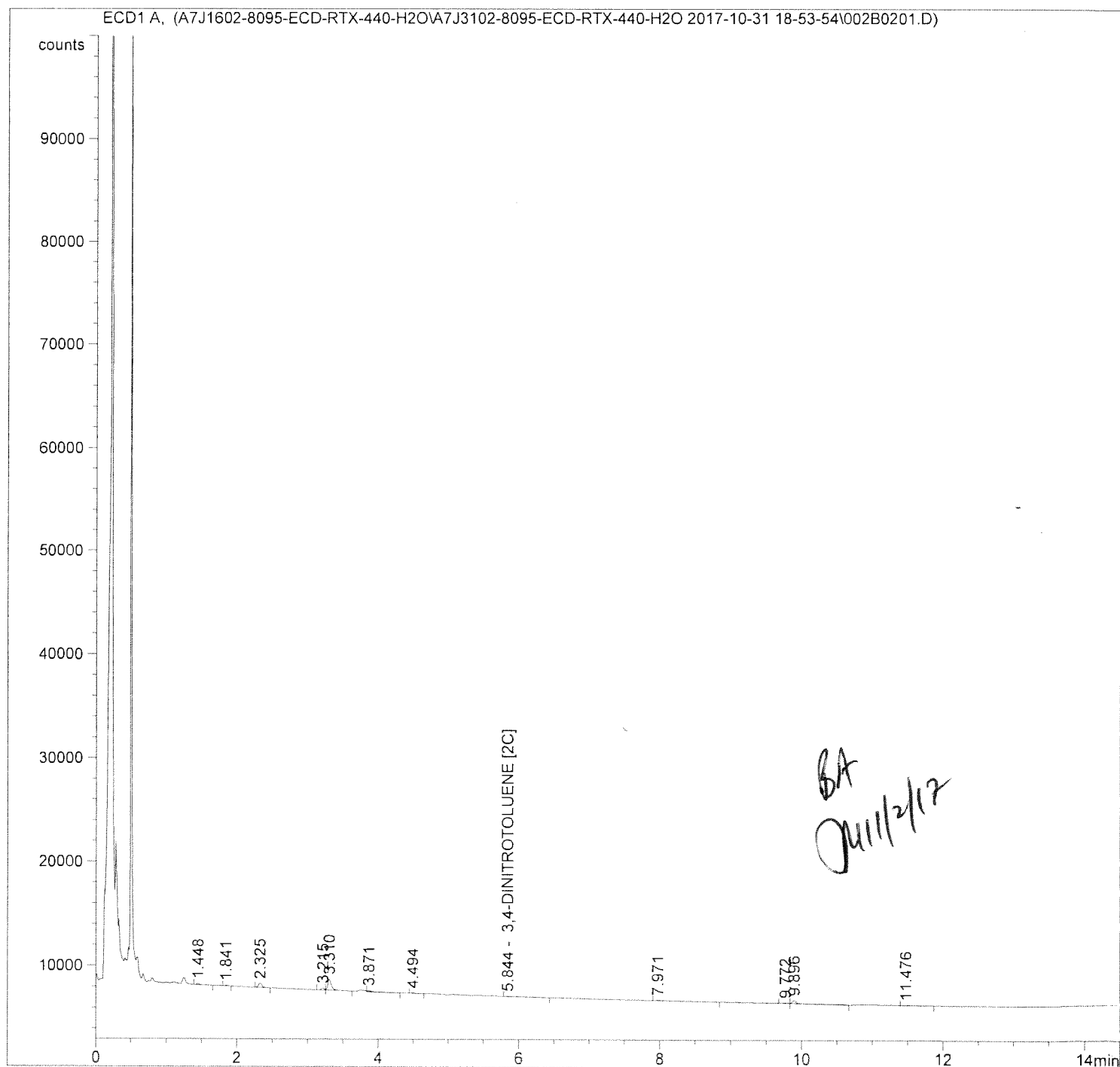
2 Warnings or Errors :

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

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

Sample Name: A7J3102-IBL2

```
=====
Acq. Operator   : JJK                      Seq. Line :    2
Acq. Instrument : 3337G12416              Location  : Vial 2
Injection Date  : 10/31/2017 7:17:50 PM    Inj       :    1
                                           Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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	: 2
Acq. Instrument	: 3337G12416	Location	: Vial 2
Injection Date	: 10/31/2017 7:17:50 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Thursday, November 02, 2017 10:42:21 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			
1.563	1		1	-	-	-		NITROBENZENE [2C]
2.207	1		1	-	-	-		2-NITROTOLUENE [2C]
2.542	1		1	-	-	-		3-NITROTOLUENE [2C]
2.709	1		1	-	-	-		4-NITROTOLUENE [2C]
3.790	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.195	1		1	-	-	-		NITROGLYCERIN [2C]
4.870	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
4.930	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.548	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
5.844	1	BB	1	30.72169	0.00000	0.00000		3,4-DINITROTOLUENE [2C]
7.103	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.345	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.414	1		1	-	-	-		PETN [2C]
7.944	1		1	-	-	-		RDX [2C]
8.298	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE [2C]
8.455	1		1	-	-	-		3,5-DINITROANILINE [2C]
8.620	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
8.985	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.469	1		1	-	-	-		TETRYL [2C]
12.384	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 0.00000

Handwritten signature: JW 11/2/17

=====

Acq. Operator	: JJK	Seq. Line	: 2
Acq. Instrument	: 3337G12416	Location	: Vial 2
Injection Date	: 10/31/2017 7:17:50 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

2 Warnings or Errors :

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

=====

*** End of Report ***

Sample Name: A7J3102-CAL1

=====

Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3337G12416	Location	: Vial 3
Injection Date	: 10/31/2017 7:39:54 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

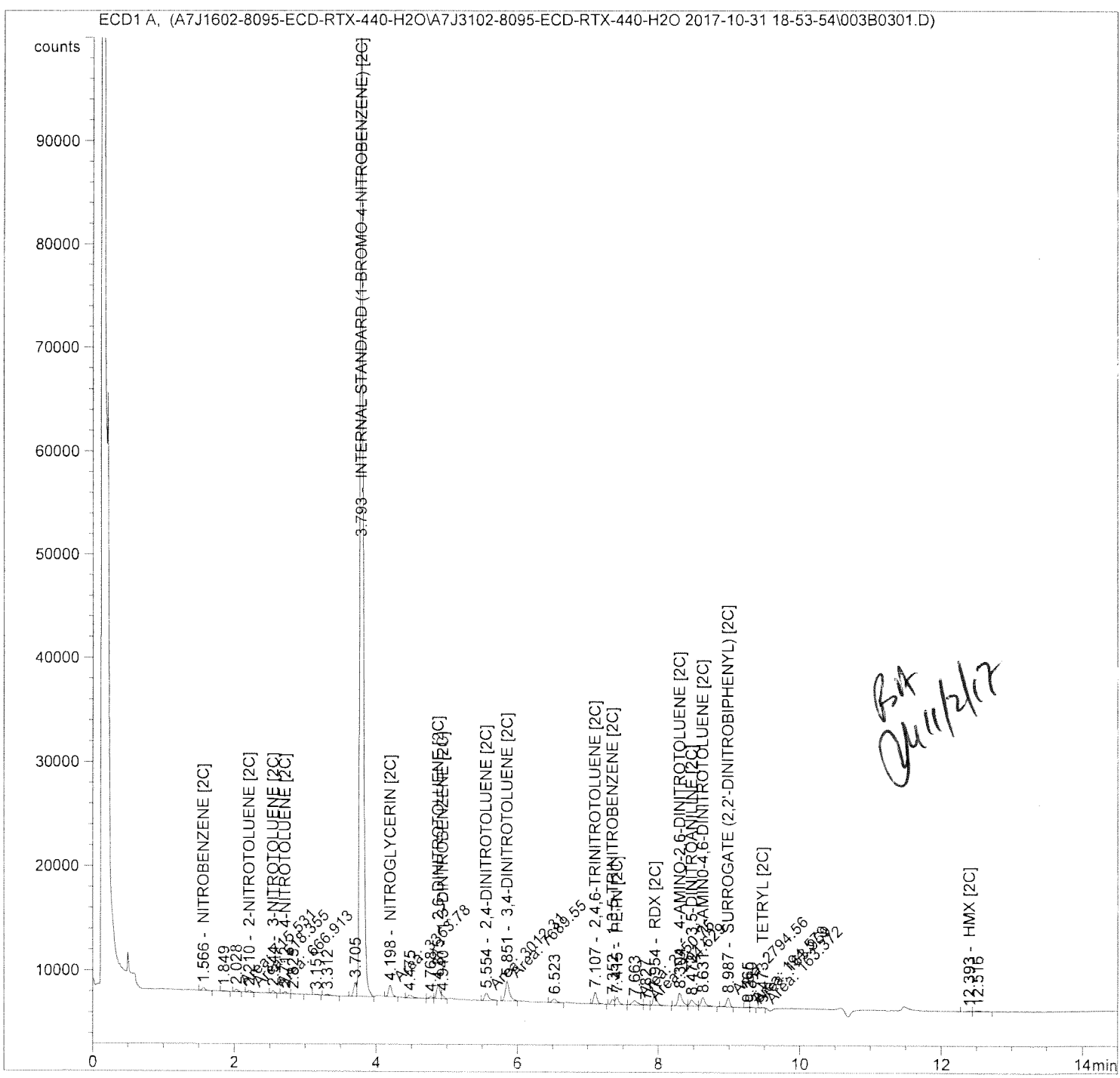
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3337G12416	Location	: Vial 3
Injection Date	: 10/31/2017 7:39:54 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

Internal Standard Report

=====

Sorted By : Retention Time

Calib. Data Modified : Thursday, November 02, 2017 10:42:21 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
1.566	1	BB	1	266.33652	2.76571	9.82391e-4		NITROBENZENE [2C]
2.210	1	MM	1	160.85411	4.58318	9.83211e-4		2-NITROTOLUENE [2C]
2.544	1	MM	1	225.04677	3.49223	1.04815e-3		3-NITROTOLUENE [2C]
2.712	1	BV	1	175.70613	4.10652	9.62296e-4		4-NITROTOLUENE [2C]
3.793	1	VB +I	1	9.37265e4	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.198	1	MM	1	1071.16931	6.72435e-1	9.60630e-4		NITROGLYCERIN [2C]
4.875	1	BV	1	1353.86255	5.25263e-1	9.48416e-4		2,6-DINITROTOLUENE [2C]
4.940	1	VV B	1	333.04483	2.19573	9.75278e-4		1,3-DINITROBENZENE [2C]
5.554	1	MM	1	710.12964	1.01065	9.57162e-4		2,4-DINITROTOLUENE [2C]
5.851	1	MM	1	1883.41919	4.43400e-1	1.11376e-3		3,4-DINITROTOLUENE [2C]
7.107	1	BB	1	1094.69226	6.84064e-1	9.98703e-4		2,4,6-TRINITROTOLUENE [2C]
7.352	1	BV	1	471.95041	1.44569	9.09954e-4		1,3,5-TRINITROBENZENE [2C]
7.415	1	VB	1	675.51483	1.08519	9.77665e-4		PETN [2C]
7.954	1	VB	1	1105.36169	7.21141e-1	1.06309e-3		RDX [2C]
8.304	1	BV	1	1204.78308	7.06573e-1	1.13531e-3		4-AMINO-2,6-DINITROTOLUENE [2C]
8.472	1	VV	1	591.62366	1.18275	9.33226e-4		3,5-DINITROANILINE [2C]
8.631	1	VB	1	841.86829	8.35237e-1	9.37781e-4		2-AMINO-4,6-DINITROTOLUENE [2C]
8.987	1	MM +	1	847.02405	8.65017e-1	9.77165e-4		SURROGATE (2,2'-DINITROBIPHENYL)
9.473	1	MM	1	50.61718	13.91851	9.39589e-4		TETRYL [2C]
12.393	1	BV	1	53.79658	13.12845	9.41924e-4		HMX [2C]

Totals without ISTD(s) : 1.87457e-2

=====

Acq. Operator	: JJK	Seq. Line	: 3
Acq. Instrument	: 3337G12416	Location	: Vial 3
Injection Date	: 10/31/2017 7:39:54 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

Sample Name: A7J3102-CAL2

=====

Acq. Operator : JJK Seq. Line : 4
Acq. Instrument : 3337G12416 Location : Vial 4
Injection Date : 10/31/2017 8:02:04 PM Inj : 1
Inj Volume : Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

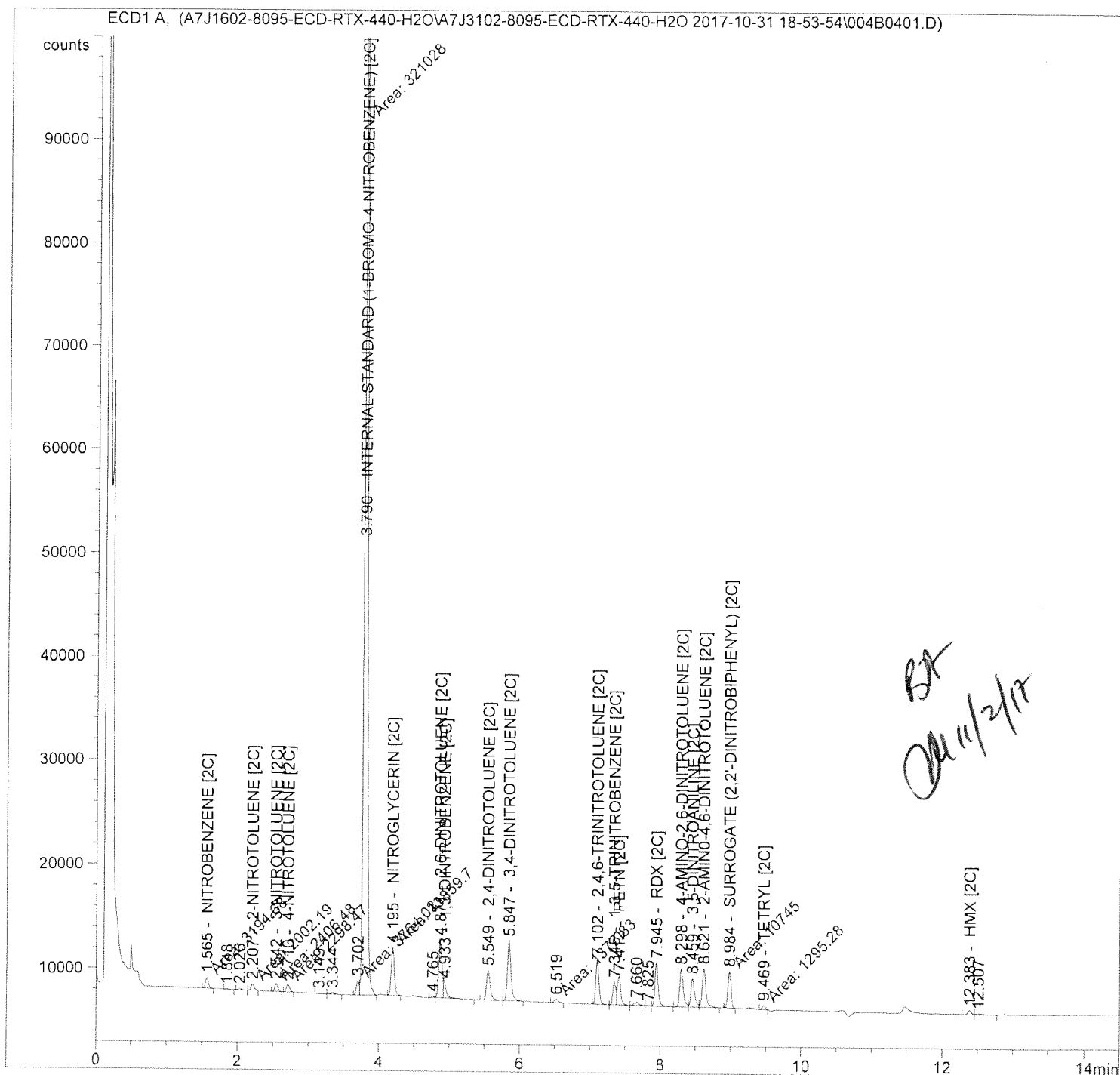
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 4
Acq. Instrument	: 3337G12416	Location	: Vial 4
Injection Date	: 10/31/2017 8:02:04 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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			
1.565	1	MM	1	1041.67090	3.02824	4.00270e-3		NITROBENZENE [2C]
2.207	1	MM	1	636.91785	4.87722	3.94174e-3		2-NITROTOLUENE [2C]
2.542	1	MM	1	762.91522	3.88744	3.76333e-3		3-NITROTOLUENE [2C]
2.710	1	MM	1	723.70032	4.33570	3.98154e-3		4-NITROTOLUENE [2C]
3.790	1	FM +I	1	9.85093e4	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.195	1	MM	1	4581.44971	6.84876e-1	3.98151e-3		NITROGLYCERIN [2C]
4.871	1	BV	1	5488.57959	5.91405e-1	4.11887e-3		2,6-DINITROTOLUENE [2C]
4.933	1	VB B	1	1489.20496	2.17434	4.10881e-3		1,3-DINITROBENZENE [2C]
5.549	1	BV	1	2842.50391	1.12311	4.05094e-3		2,4-DINITROTOLUENE [2C]
5.847	1	VB	1	5669.78662	5.12419e-1	3.68659e-3		3,4-DINITROTOLUENE [2C]
7.102	1	BV	1	4136.64990	7.38021e-1	3.87392e-3		2,4,6-TRINITROTOLUENE [2C]
7.345	1	VV	1	2161.88940	1.54349	4.23418e-3		1,3,5-TRINITROBENZENE [2C]
7.412	1	VB	1	2756.51538	1.13620	3.97418e-3		PETN [2C]
7.945	1	BB	1	4129.70459	6.94754e-1	3.64068e-3		RDX [2C]
8.298	1	BV	1	3574.27344	8.05673e-1	3.65409e-3		4-AMINO-2,6-DINITROTOLUENE [2C]
8.459	1	VV	1	2692.81250	1.20688	4.12384e-3		3,5-DINITROANILINE [2C]
8.621	1	VB	1	3667.23511	8.85420e-1	4.12022e-3		2-AMINO-4,6-DINITROTOLUENE [2C]
8.984	1	MM +	1	3462.75757	8.92675e-1	3.92237e-3		SURROGATE (2,2'-DINITROBIPHENYL)
9.469	1	MM	1	393.69946	7.85351	3.92339e-3		TETRYL [2C]
12.383	1	BV	1	388.10748	8.36435	4.11924e-3		HMX [2C]

Totals without ISTD(s) : 7.52221e-2

Qu 11/2/17

```
=====
Acq. Operator   : JJK                               Seq. Line :    4
Acq. Instrument : 3337G12416                         Location  : Vial 4
Injection Date  : 10/31/2017 8:02:04 PM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
```

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

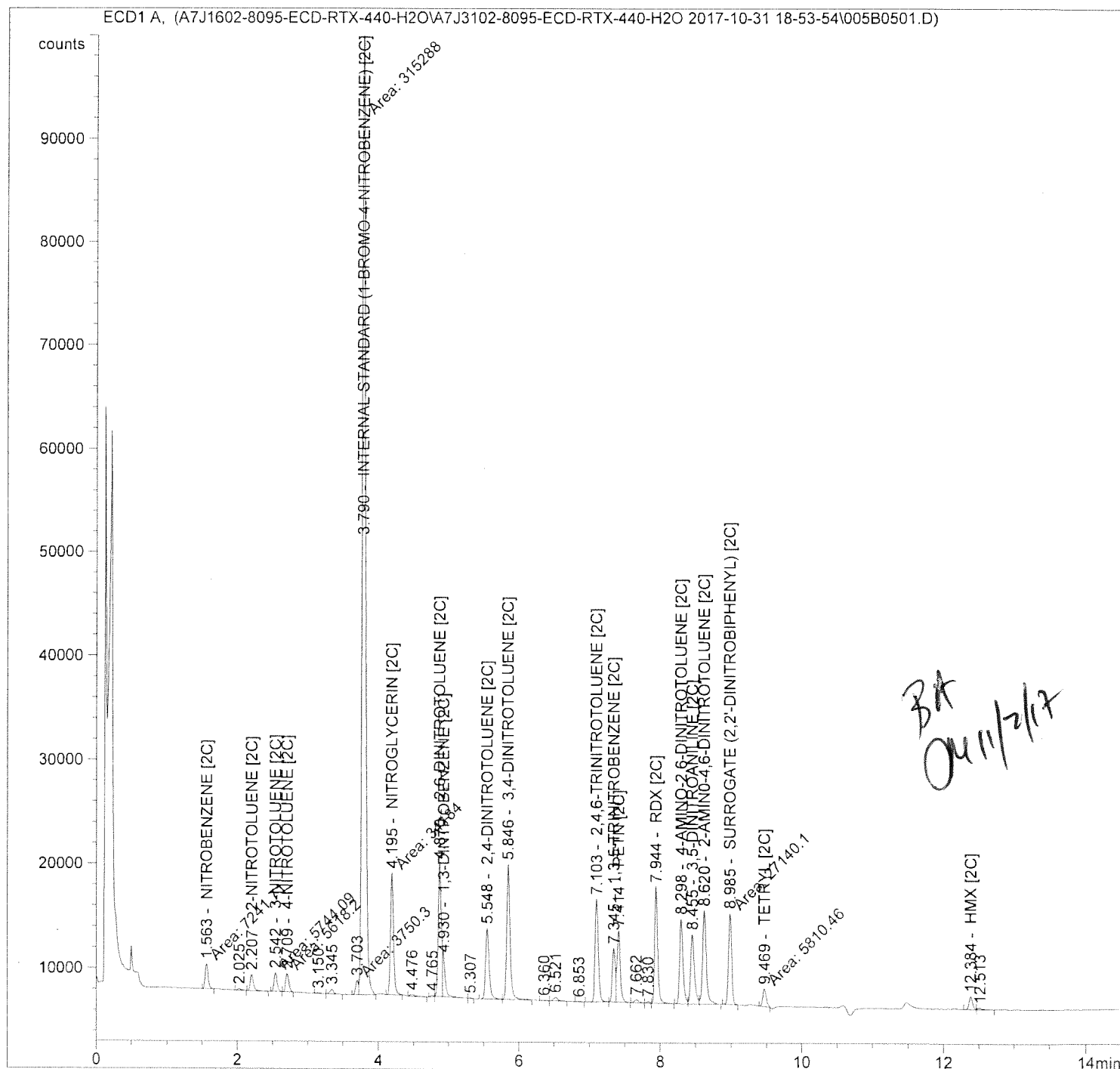
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*** End of Report ***

```

Acq. Operator   : JJK                               Seq. Line :    5
Acq. Instrument : 3337G12416                         Location  : Vial 5
Injection Date  : 10/31/2017 8:24:04 PM              Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.

```



=====

Acq. Operator	: JJK	Seq. Line	: 5
Acq. Instrument	: 3337G12416	Location	: Vial 5
Injection Date	: 10/31/2017 8:24:04 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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
1.563	1	MM	1	2410.43799	3.21363	1.00484e-2		NITROBENZENE [2C]
2.207	1	BB	1	1540.51843	5.08866	1.01689e-2		2-NITROTOLUENE [2C]
2.542	1	MM	1	1798.12207	4.21336	9.82772e-3		3-NITROTOLUENE [2C]
2.709	1	MM	1	1763.00952	4.49589	1.02820e-2		4-NITROTOLUENE [2C]
3.790	1	FM +I	1	9.63617e4	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.195	1	MM	1	1.16646e4	6.93487e-1	1.04933e-2		NITROGLYCERIN [2C]
4.870	1	BV	1	1.27222e4	6.37975e-1	1.05287e-2		2,6-DINITROTOLUENE [2C]
4.930	1	VV B	1	3825.45654	2.16020	1.07197e-2		1,3-DINITROBENZENE [2C]
5.548	1	BV	1	6733.95117	1.20429	1.05198e-2		2,4-DINITROTOLUENE [2C]
5.846	1	VB	1	1.29041e4	5.75497e-1	9.63332e-3		3,4-DINITROTOLUENE [2C]
7.103	1	BB	1	9779.90137	7.77691e-1	9.86613e-3		2,4,6-TRINITROTOLUENE [2C]
7.345	1	BV	1	5114.48633	1.60530	1.06504e-2		1,3,5-TRINITROBENZENE [2C]
7.414	1	VB	1	6793.82227	1.17231	1.03315e-2		PETN [2C]
7.944	1	BB	1	1.10849e4	6.74445e-1	9.69800e-3		RDX [2C]
8.298	1	BV	1	8071.32666	8.95599e-1	9.37700e-3		4-AMINO-2,6-DINITROTOLUENE [2C]
8.455	1	VV	1	6622.68799	1.22230	1.05007e-2		3,5-DINITROANILINE [2C]
8.620	1	VB	1	8888.43359	9.19010e-1	1.05962e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.985	1	MM +	1	8683.64453	9.12361e-1	1.02772e-2		SURROGATE (2,2'-DINITROBIPHENYL) [2C]
9.469	1	MM	1	1711.15564	5.12720	1.13809e-2		TETRYL [2C]
12.384	1	VV	1	1237.92334	6.34313	1.01860e-2		HMX [2C]

Totals without ISTD(s) : 1.95086e-1

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=====

Acq. Operator	: JJK	Seq. Line	: 5
Acq. Instrument	: 3337G12416	Location	: Vial 5
Injection Date	: 10/31/2017 8:24:04 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 6
Acq. Instrument	: 3337G12416	Location	: Vial 6
Injection Date	: 10/31/2017 8:45:56 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

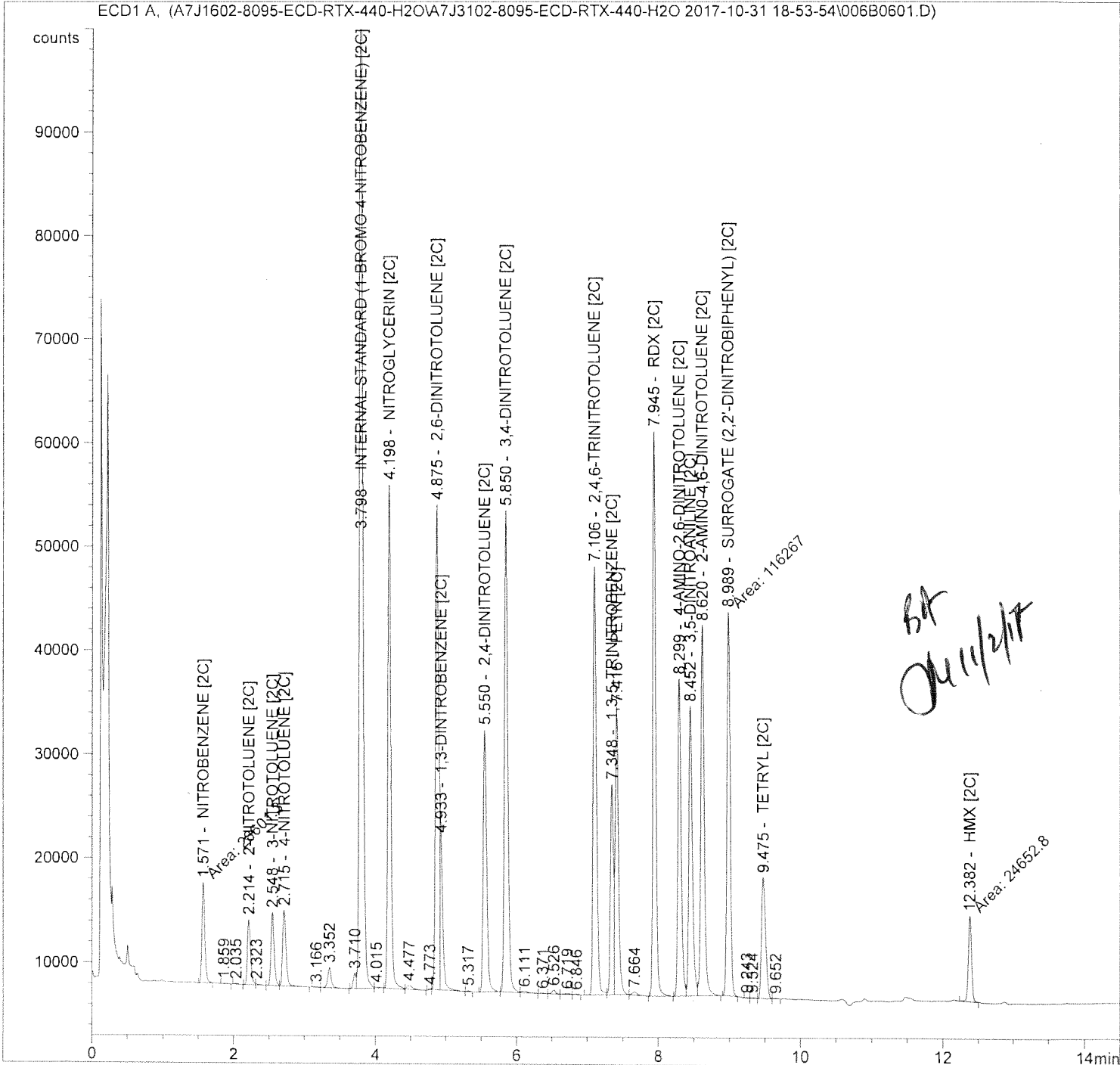
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====



=====

Acq. Operator	: JJK	Seq. Line	: 6
Acq. Instrument	: 3337G12416	Location	: Vial 6
Injection Date	: 10/31/2017 8:45:56 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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

=====

Sorted By : Retention Time

Calib. Data Modified : Thursday, November 02, 2017 10:42:21 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
1.571	1	MM	1	9615.95508	3.51818	4.08528e-2		NITROBENZENE [2C]
2.214	1	BV	1	6259.45117	5.41614	4.09391e-2		2-NITROTOLUENE [2C]
2.548	1	VV	1	7025.12549	4.74203	4.02281e-2		3-NITROTOLUENE [2C]
2.715	1	VB	1	7282.41602	4.74323	4.17120e-2		4-NITROTOLUENE [2C]
3.798	1	VV +I	1	1.03514e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.198	1	BV	1	4.84520e4	7.05846e-1	4.12984e-2		NITROGLYCERIN [2C]
4.875	1	BV	1	4.66331e4	7.10616e-1	4.00166e-2		2,6-DINITROTOLUENE [2C]
4.933	1	VV B	1	1.46008e4	2.14177	3.77625e-2		1,3-DINITROBENZENE [2C]
5.550	1	BB	1	2.51160e4	1.32857	4.02946e-2		2,4-DINITROTOLUENE [2C]
5.850	1	BV	1	4.62326e4	6.79146e-1	3.79161e-2		3,4-DINITROTOLUENE [2C]
7.106	1	BV	1	4.10818e4	8.43224e-1	4.18315e-2		2,4,6-TRINITROTOLUENE [2C]
7.348	1	VV	1	2.01028e4	1.70062	4.12834e-2		1,3,5-TRINITROBENZENE [2C]
7.416	1	VB	1	2.74959e4	1.22616	4.07125e-2		PETN [2C]
7.945	1	BB	1	5.42538e4	6.45044e-1	4.22602e-2		RDX [2C]
8.299	1	BV	1	3.03109e4	1.04922	3.84039e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.452	1	VV	1	2.76746e4	1.24539	4.16196e-2		3,5-DINITROANILINE [2C]
8.620	1	VB	1	3.54260e4	9.69809e-1	4.14878e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.989	1	MM +	1	3.67814e4	9.41830e-1	4.18324e-2		SURROGATE (2,2'-DINITROBIPHENYL) [2C]
9.475	1	BB	1	1.15593e4	3.03086	4.23067e-2		TETRYL [2C]
12.382	1	MM	1	8182.90332	4.14600	4.09684e-2		HMX [2C]

Totals without ISTD(s) : 7.73727e-1

=====

Acq. Operator	: JJK	Seq. Line	: 6
Acq. Instrument	: 3337G12416	Location	: Vial 6
Injection Date	: 10/31/2017 8:45:56 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

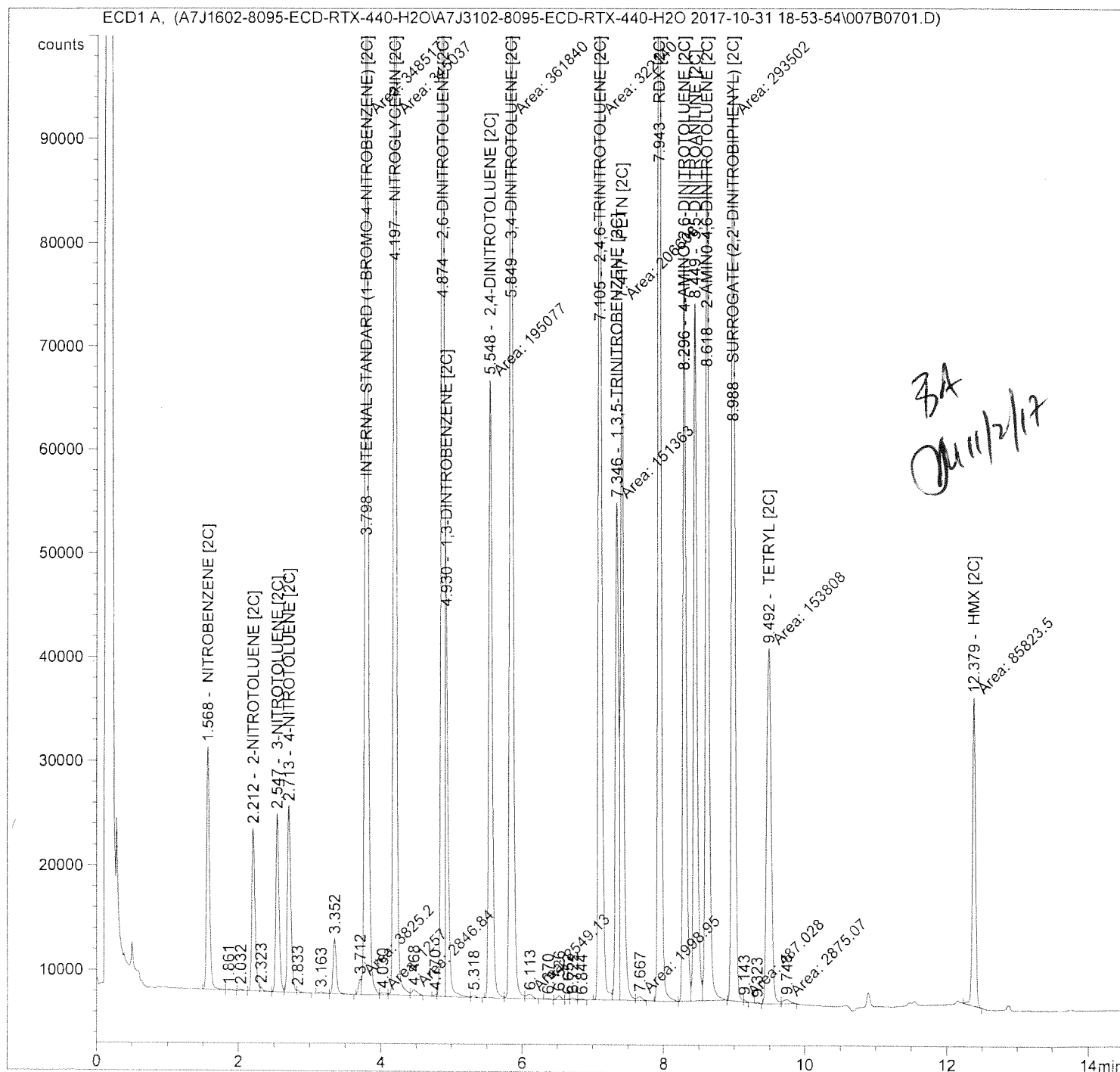
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*** End of Report ***

```

Acq. Operator   : JJK                               Seq. Line :    7
Acq. Instrument : 3337G12416                         Location  : Vial 7
Injection Date  : 10/31/2017 9:07:53 PM              Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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	: 7
Acq. Instrument	: 3337G12416	Location	: Vial 7
Injection Date	: 10/31/2017 9:07:53 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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			
1.568	1	BV	1	2.32055e4	3.73391	1.02701e-1		NITROBENZENE [2C]
2.212	1	BV	1	1.55315e4	5.64694	1.03956e-1		2-NITROTOLUENE [2C]
2.547	1	VV	1	1.70386e4	5.13393	1.03682e-1		3-NITROTOLUENE [2C]
2.713	1	VV	1	1.78403e4	4.91162	1.03860e-1		4-NITROTOLUENE [2C]
3.798	1	MF +I	1	1.05460e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.197	1	MF	1	1.19085e5	7.14012e-1	1.00783e-1		NITROGLYCERIN [2C]
4.874	1	VV	1	1.09639e5	7.64792e-1	9.93868e-2		2,6-DINITROTOLUENE [2C]
4.930	1	VV B	1	3.69443e4	2.12865	9.32119e-2		1,3-DINITROBENZENE [2C]
5.548	1	MF	1	5.94282e4	1.41990	1.00017e-1		2,4-DINITROTOLUENE [2C]
5.849	1	MF	1	1.09875e5	7.63021e-1	9.93704e-2		3,4-DINITROTOLUENE [2C]
7.105	1	MF	1	1.02135e5	8.89056e-1	1.07628e-1		2,4,6-TRINITROTOLUENE [2C]
7.346	1	MF	1	4.77171e4	1.76579	9.98700e-2		1,3,5-TRINITROBENZENE [2C]
7.417	1	FM	1	6.70071e4	1.26291	1.00303e-1		PETN [2C]
7.943	1	BB	1	1.39689e5	6.27705e-1	1.03929e-1		RDX [2C]
8.296	1	BV	1	7.16305e4	1.16703	9.90837e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.449	1	VV	1	6.70392e4	1.26034	1.00147e-1		3,5-DINITROANILINE [2C]
8.618	1	VB	1	8.12125e4	1.00263	9.65126e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.988	1	MF +	1	8.93689e4	9.60989e-1	1.01795e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.492	1	MF	1	3.39693e4	2.23887	9.01439e-2		TETRYL [2C]
12.379	1	MM	1	2.93708e4	3.08772	1.07491e-1		HMX [2C]

Totals without ISTD(s) : 1.91387

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Acq. Operator	: JJK	Seq. Line	: 7
Acq. Instrument	: 3337G12416	Location	: Vial 7
Injection Date	: 10/31/2017 9:07:53 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

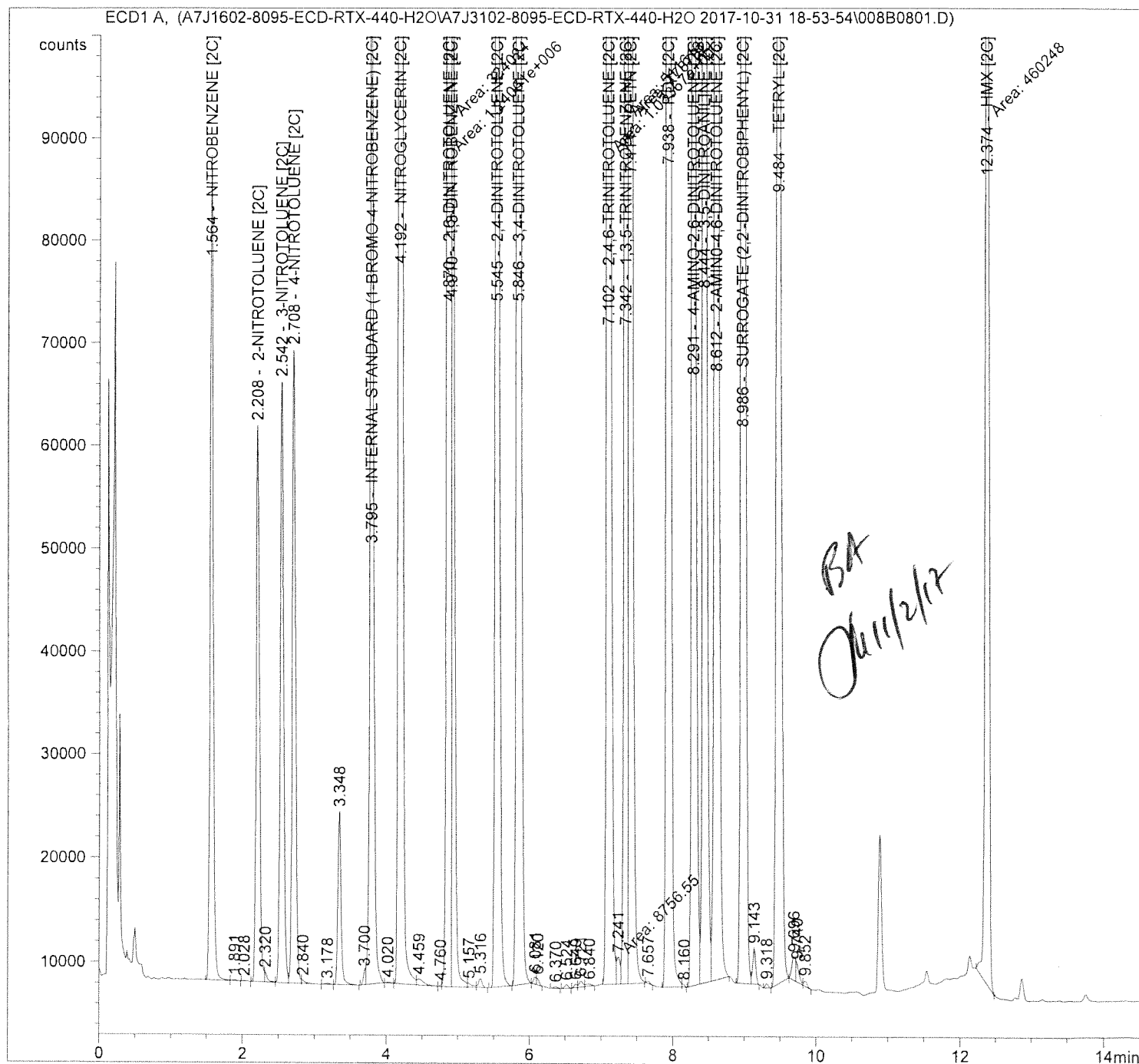
=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 8
Acq. Instrument	: 3337G12416	Location	: Vial 8
Injection Date	: 10/31/2017 9:29:54 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M		
Last changed	: 10/11/2017 6:12:28 PM by RWJ		
Analysis Method	: C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M		
Last changed	: 11/2/2017 12:08:37 PM by RWJ (modified after loading)		
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.		

=====



=====

Acq. Operator	: JJK	Seq. Line	: 8
Acq. Instrument	: 3337G12416	Location	: Vial 8
Injection Date	: 10/31/2017 9:29:54 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 12:08:37 PM by RWJ
(modified after loading)

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

=====

Sorted By : Retention Time

Calib. Data Modified : 11/2/2017 12:08:41 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
1.564	1	BV	1	8.02182e4	4.06713	3.86054e-1		NITROBENZENE [2C]
2.208	1	BV	1	5.38758e4	5.98554	3.81579e-1		2-NITROTOLUENE [2C]
2.542	1	VV	1	5.82324e4	5.74442	3.95820e-1		3-NITROTOLUENE [2C]
2.708	1	VV	1	6.14329e4	5.15879	3.75004e-1		4-NITROTOLUENE [2C]
3.795	1	VB +I	1	1.05639e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.192	1	BV	1	4.45733e5	7.26413e-1	3.83129e-1		NITROGLYCERIN [2C]
4.870	1	MF	1	3.87050e5	8.54294e-1	3.91256e-1		2,6-DINITROTOLUENE [2C]
4.910	1	FM	1	1.69786e5	2.10684	4.23272e-1		1,3-DINITROBENZENE [2C]
5.545	1	BB	1	2.09799e5	1.56828	3.89326e-1		2,4-DINITROTOLUENE [2C]
5.846	1	BB	1	3.98527e5	9.10676e-1	4.29446e-1		3,4-DINITROTOLUENE [2C]
7.102	1	MF	1	3.30225e5	9.53064e-1	3.72408e-1		2,4,6-TRINITROTOLUENE [2C]
7.342	1	MF	1	1.71067e5	1.86880	3.78282e-1		1,3,5-TRINITROBENZENE [2C]
7.411	1	FM	1	2.49888e5	1.32039	3.90423e-1		PETN [2C]
7.938	1	BV	1	5.43954e5	6.03149e-1	3.88216e-1		RDX [2C]
8.291	1	BV	1	2.65358e5	1.37697	4.32361e-1		4-AMINO-2,6-DINITROTOLUENE [2C]
8.444	1	VV	1	2.50205e5	1.28338	3.79961e-1		3,5-DINITROANILINE [2C]
8.612	1	VB	1	3.11423e5	1.05941	3.90393e-1		2-AMINO-4,6-DINITROTOLUENE [2C]
8.986	1	BV +	1	3.25650e5	9.90178e-1	3.81550e-1		SURROGATE (2,2'-DINITROBIPHENYL)
9.484	1	BB	1	1.30020e5	1.52607	2.34786e-1		TETRYL [2C]
12.374	1	MM	1	1.46553e5	2.12051	3.67724e-1		HMX [2C]

OK 11/2/17

Sample Name: A7J3102-CAL6

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=====
Acq. Operator   : JJK                               Seq. Line :    8
Acq. Instrument : 3337G12416                         Location  : Vial 8
Injection Date  : 10/31/2017 9:29:54 PM              Inj       :    1
                                                    Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 12:08:37 PM by RWJ
                  (modified after loading)
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.
```

=====

Totals without ISTD(s) : 7.27099

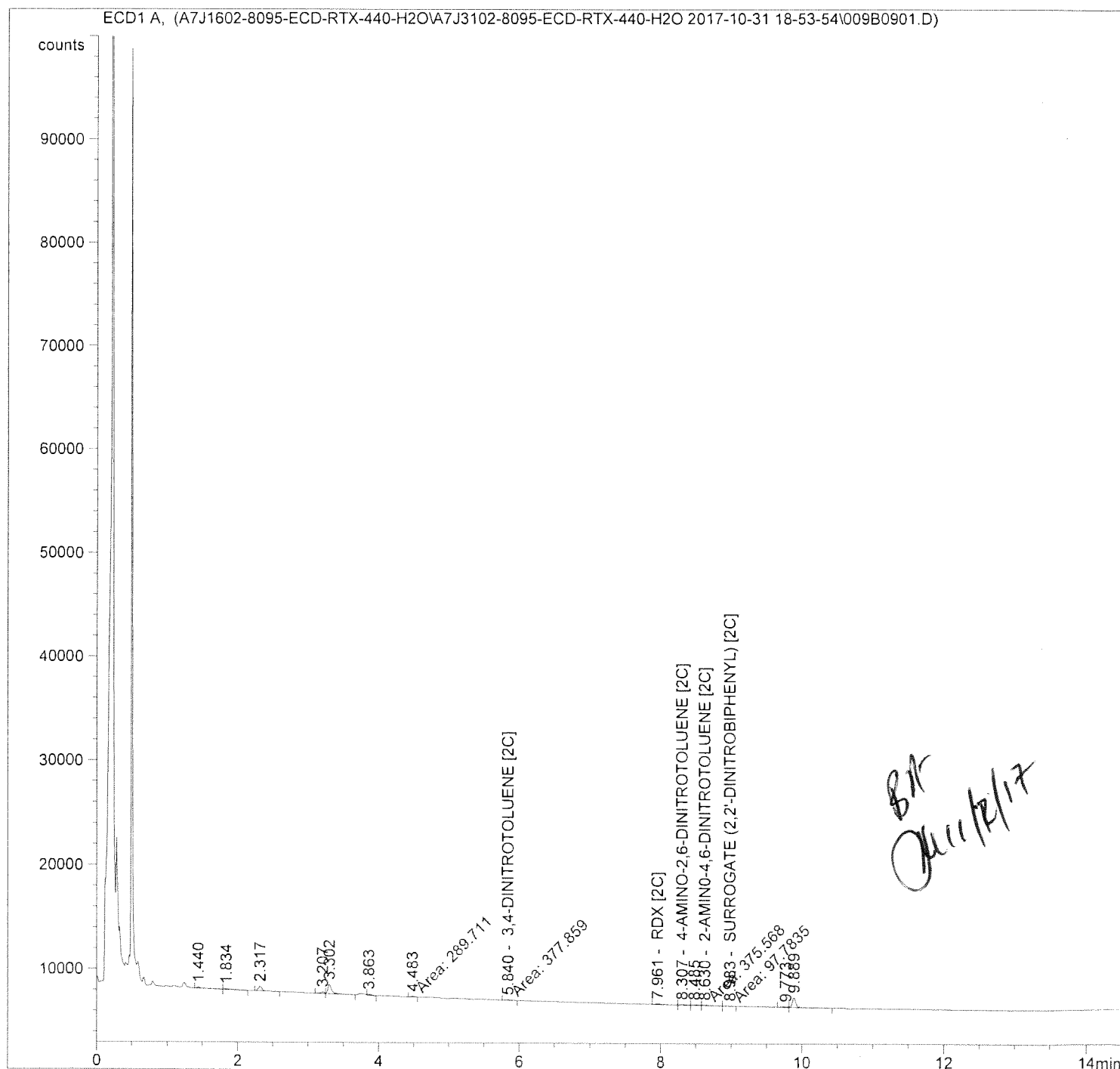
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** 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	5
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Acq. Operator	: JJK	Seq. Line	: 9
Acq. Instrument	: 3337G12416	Location	: Vial 9
Injection Date	: 10/31/2017 9:51:58 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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
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#

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

1.563	1		1	-	-	-		NITROBENZENE [2C]
2.207	1		1	-	-	-		2-NITROTOLUENE [2C]
2.541	1		1	-	-	-		3-NITROTOLUENE [2C]
2.708	1		1	-	-	-		4-NITROTOLUENE [2C]
3.790	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.194	1		1	-	-	-		NITROGLYCERIN [2C]
4.869	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
4.929	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.547	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
5.840	1	MM	1	55.76863	0.00000	0.00000		3,4-DINITROTOLUENE [2C]
7.101	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.344	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.412	1		1	-	-	-		PETN [2C]
7.961	1	BV	1	80.91630	0.00000	0.00000		RDY [2C]
8.307	1	VV	1	60.22987	0.00000	0.00000		4-AMINO-2,6-DINITROTOLUENE [2C]
8.454	1		1	-	-	-		3,5-DINITROANILINE [2C]
8.630	1	MF	1	62.73580	0.00000	0.00000		2-AMINO-4,6-DINITROTOLUENE [2C]
8.983	1	FM +	1	23.14405	0.00000	0.00000		SURROGATE (2,2'-DINITROBIPHENYL)
9.468	1		1	-	-	-		TETRYL [2C]
12.382	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 0.00000

Sample Name: A7J3102-IBL3

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=====
Acq. Operator   : JJK                               Seq. Line :    9
Acq. Instrument : 3337G12416                         Location  : Vial 9
Injection Date  : 10/31/2017 9:51:58 PM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
=====
```

2 Warnings or Errors :

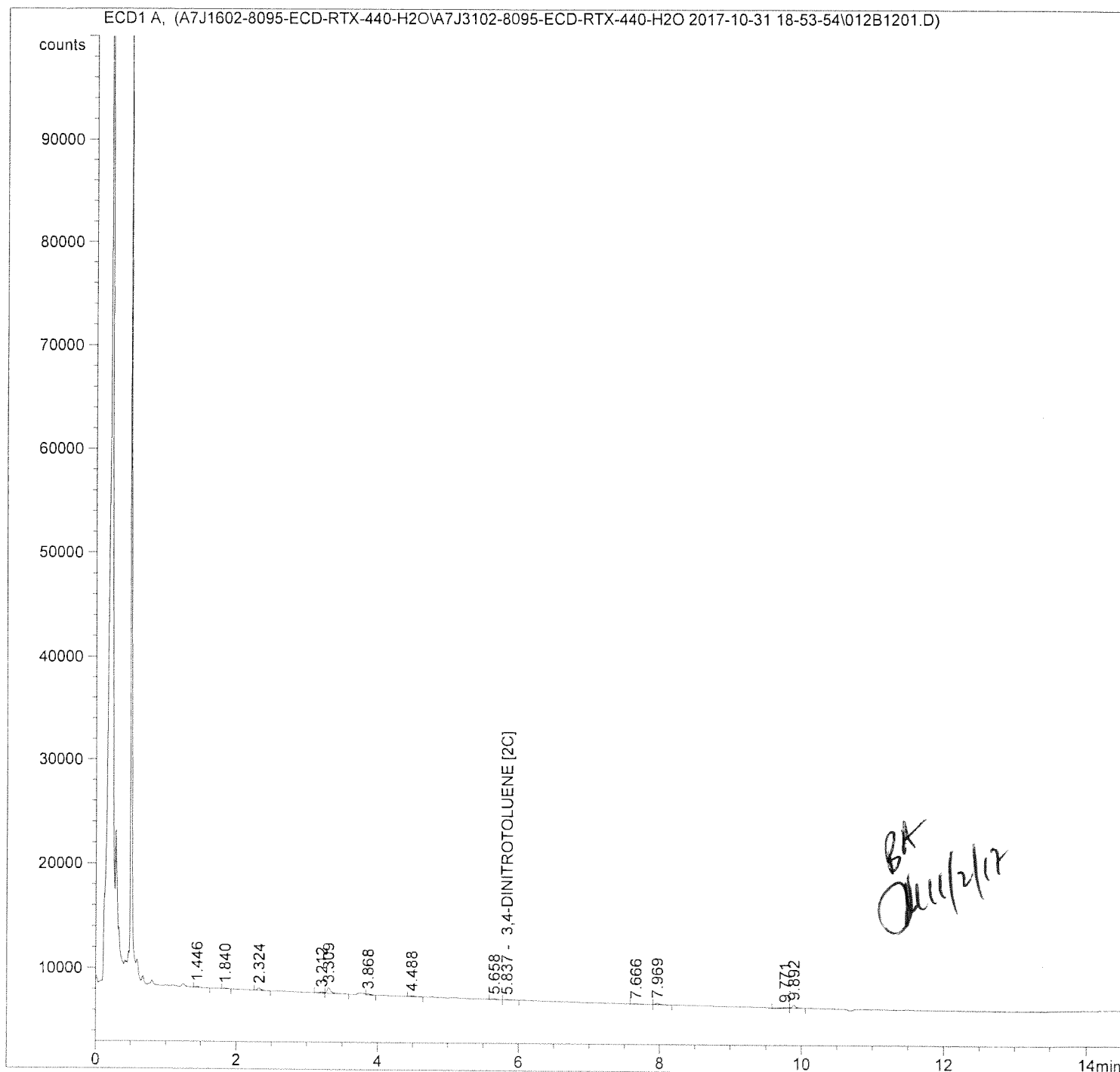
Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

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

=====

Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3337G12416	Location	: Vial 12
Injection Date	: 10/31/2017 10:57:40 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M		
Last changed	: 10/11/2017 6:12:28 PM by RWJ		
Analysis Method	: C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M		
Last changed	: 11/2/2017 10:42:56 AM by RWJ		
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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Acq. Operator	: JJK	Seq. Line	: 12
Acq. Instrument	: 3337G12416	Location	: Vial 12
Injection Date	: 10/31/2017 10:57:40 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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

#

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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
1.563	1		1	-	-	-		NITROBENZENE [2C]
2.207	1		1	-	-	-		2-NITROTOLUENE [2C]
2.542	1		1	-	-	-		3-NITROTOLUENE [2C]
2.709	1		1	-	-	-		4-NITROTOLUENE [2C]
3.790	1		1	-	-	-		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.195	1		1	-	-	-		NITROGLYCERIN [2C]
4.870	1		1	-	-	-		2,6-DINITROTOLUENE [2C]
4.930	1		1	-	-	-		1,3-DINITROBENZENE [2C]
5.548	1		1	-	-	-		2,4-DINITROTOLUENE [2C]
5.837	1 VB		1	40.66819	0.00000	0.00000		3,4-DINITROTOLUENE [2C]
7.103	1		1	-	-	-		2,4,6-TRINITROTOLUENE [2C]
7.345	1		1	-	-	-		1,3,5-TRINITROBENZENE [2C]
7.414	1		1	-	-	-		PETN [2C]
7.944	1		1	-	-	-		RDX [2C]
8.298	1		1	-	-	-		4-AMINO-2,6-DINITROTOLUENE [2C]
8.455	1		1	-	-	-		3,5-DINITROANILINE [2C]
8.620	1		1	-	-	-		2-AMINO-4,6-DINITROTOLUENE [2C]
8.985	1		1	-	-	-		SURROGATE (2,2'-DINITROBIPHENYL)
9.469	1		1	-	-	-		TETRYL [2C]
12.384	1		1	-	-	-		HMX [2C]

Totals without ISTD(s) : 0.00000

Handwritten signature

Sample Name: A7J3102-IBL4

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=====
Acq. Operator   : JJK                               Seq. Line :   12
Acq. Instrument : 3337G12416                         Location  : Vial 12
Injection Date  : 10/31/2017 10:57:40 PM             Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
```

=====

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: A7J3102

Lab Sample ID: A7J3102-CCV1

SDG: A174306

Project: Ashland Kenvil - Kenvil, NJ

Calibration: A171102

Calibration Date: 10/31/17 19:38

Injection Date: 10/31/17

Injection Time: 22:30

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Amino-4,6-dinitrotoluene	PR	0.04000	0.0372	52.57389	42.45799		-7.0	20
2-Amino-4,6-dinitrotoluene [2C]	PR	0.04000	0.0411	22.33003	21.85167		2.8	20
4-Amino-2,6-dinitrotoluene	PR	0.04000	0.0388	44.30379	38.17925		-2.9	20
4-Amino-2,6-dinitrotoluene [2C]	PR	0.04000	0.0383	22.00607	18.8316		-4.2	20
3,5-Dinitroaniline	PR	0.04000	0.0371	47.94109	38.66629		-7.2	20
3,5-Dinitroaniline [2C]	PR	0.04000	0.0418	17.057	17.29735		4.5	20
1,3-Dinitrobenzene	PR	0.04000	0.0374	15.48677	13.5348		-6.5	20
1,3-Dinitrobenzene [2C]	PR	0.04000	0.0387	9.788743	9.308238		-3.3	20
2,6-Dinitrotoluene	PR	0.04000	0.0383	64.02083	54.91199		-4.2	20
2,6-Dinitrotoluene [2C]	PR	0.04000	0.0402	31.48848	29.16109		0.6	20
2,4-Dinitrotoluene	PR	0.04000	0.0388	35.91542	30.76312		-3.0	20
2,4-Dinitrotoluene [2C]	PR	0.04000	0.0404	16.73089	15.66243		1.0	20
HMX	PR	0.04000	0.0372	10.78003	9.824794		-7.1	20
HMX [2C]	PR	0.04000	0.0406	4.970472	5.031622		1.5	20
Nitroglycerin	PR	0.04000	0.0405	40.28677	38.07797		1.2	20
Nitroglycerin [2C]	PR	0.04000	0.0409	30.05446	29.84933		2.2	20
3-Nitrotoluene	PR	0.04000	0.0412	4.873363	4.519776		3.0	20
3-Nitrotoluene [2C]	PR	0.04000	0.0401	4.739045	4.358658		0.3	20
4-Nitrotoluene	PR	0.04000	0.0423	3.181123	3.253284		5.9	20
4-Nitrotoluene [2C]	PR	0.04000	0.0415	4.561078	4.507318		3.7	20
PETN	PR	0.04000	0.0410	20.86613	19.18046		2.4	20
PETN [2C]	PR	0.04000	0.0413	17.54275	17.33367		3.2	20
RDX	PR	0.04000	0.0410	54.50444	55.31646		2.6	20
RDX [2C]	PR	0.04000	0.0410	32.09321	32.7059		2.5	20
Tetryl	PR	0.04000	0.0407	12.70096	15.23755		1.6	20
Tetryl [2C]	PR	0.04000	0.0429	5.545545	7.327453		7.2	20
1,3,5-Trinitrobenzene	PR	0.04000	0.0370	24.86982	21.11126		-7.5	20
1,3,5-Trinitrobenzene [2C]	PR	0.04000	0.0416	12.76891	12.60428		4.0	20
2,4,6-Trinitrotoluene	PR	0.04000	0.0396	50.26337	45.05106		-1.0	20
2,4,6-Trinitrotoluene [2C]	PR	0.04000	0.0412	26.06297	25.2072		3.0	20
2,2'-Dinitrobiphenyl	PR	0.04000	0.0423	44.73315	44.48358		5.7	20

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Instrument ID: 3336A52146

Calibration: A171102

Lab File ID: 011B1101.D.Report.TXT

Calibration Date: 10/31/17 19:38

Sequence: A7J3102

Injection Date: 10/31/17

Lab Sample ID: A7J3102-CCV1

Injection Time: 22:30

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,2'-Dinitrobiphenyl [2C]	PR	0.04000	0.0427	22.6953	23.33993		6.7	20

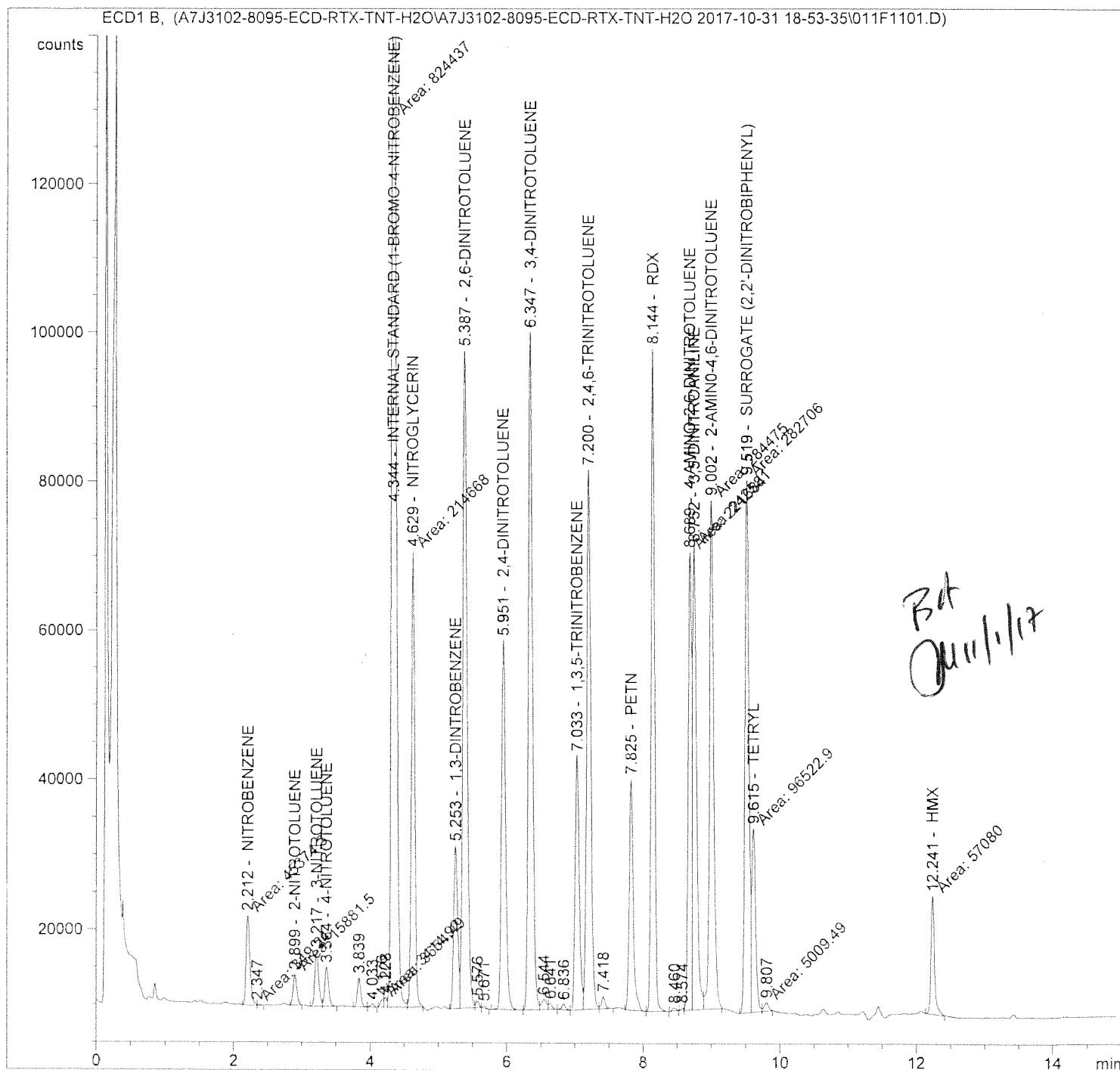
Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3336A52146	Location	: Vial 11
Injection Date	: 10/31/2017 10:30:15 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====



BA
11/1/17

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Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3336A52146	Location	: Vial 11
Injection Date	: 10/31/2017 10:30:15 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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)

Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.212	1	MF	1	1.19908e4	5.51594	4.12772e-2		NITROBENZENE
2.899	1	MM	1	4179.97754	16.20420	4.22712e-2		2-NITROTOLUENE
3.217	1	BV	1	7242.23584	9.11797	4.12111e-2		3-NITROTOLUENE
3.364	1	VB	1	5212.87988	13.01743	4.23493e-2		4-NITROTOLUENE
4.344	1	FM +I	1	2.00293e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.629	1	FM	1	6.10140e4	1.06310	4.04806e-2		NITROGLYCERIN
5.253	1	BV	1	2.16874e4	2.76274	3.73930e-2		1,3-DINITROBENZENE
5.387	1	VV	1	8.79879e4	6.98071e-1	3.83323e-2		2,6-DINITROTOLUENE
5.951	1	BB	1	4.92931e4	1.26127	3.88005e-2		2,4-DINITROTOLUENE
6.347	1	BV	1	9.07069e4	6.82799e-1	3.86524e-2		3,4-DINITROTOLUENE
7.033	1	BV	1	3.38275e4	1.75262	3.70000e-2		1,3,5-TRINITROBENZENE
7.200	1	VV	1	7.21873e4	8.79086e-1	3.96037e-2		2,4,6-TRINITROTOLUENE
7.825	1	BB	1	3.07337e4	2.13616	4.09724e-2		PETN
8.144	1	BB	1	8.86360e4	7.41615e-1	4.10234e-2		RDX
8.689	1	MF	1	6.11763e4	1.01741	3.88438e-2		4-AMINO-2,6-DINITROTOLUENE
8.752	1	FM	1	6.19567e4	9.59986e-1	3.71190e-2		3,5-DINITROANILINE
9.002	1	FM	1	6.80323e4	8.76117e-1	3.71981e-2		2-AMINO-4,6-DINITROTOLUENE
9.519	1	MF +	1	7.12780e4	9.50226e-1	4.22693e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.615	1	FM	1	2.44158e4	2.66792	4.06525e-2		TETRYL
12.241	1	MM	1	1.57427e4	3.78204	3.71577e-2		HMX

Totals without ISTD(s) : 7.52607e-1

OK
11/1/17

=====

Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3336A52146	Location	: Vial 11
Injection Date	: 10/31/2017 10:30:15 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 11
Acq. Instrument	: 3337G12416	Location	: Vial 11
Injection Date	: 10/31/2017 10:35:43 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

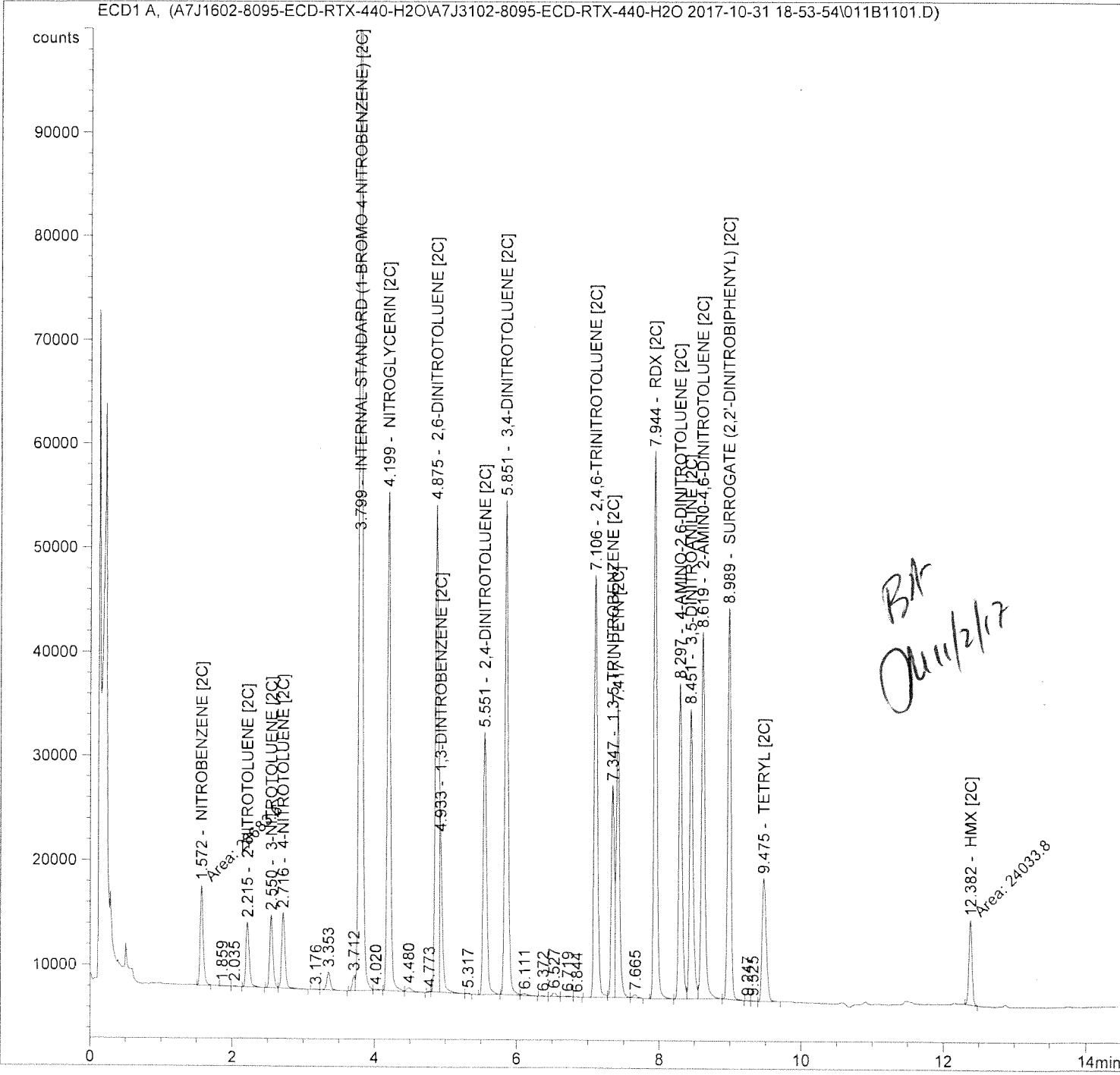
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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	: 11
Acq. Instrument	: 3337G12416	Location	: Vial 11
Injection Date	: 10/31/2017 10:35:43 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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

=====

Sorted By : Retention Time

Calib. Data Modified : Thursday, November 02, 2017 10:42:21 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
1.572	1	MM	1	9532.57324	3.51680	4.06046e-2		NITROBENZENE [2C]
2.215	1	BB	1	6208.79883	5.41484	4.07204e-2		2-NITROTOLUENE [2C]
2.550	1	BV	1	6984.06885	4.74079	4.01031e-2		3-NITROTOLUENE [2C]
2.716	1	VB	1	7222.27393	4.74223	4.14834e-2		4-NITROTOLUENE [2C]
3.799	1	VV +I	1	1.03203e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.199	1	BV	1	4.78289e4	7.05755e-1	4.08848e-2		NITROGLYCERIN [2C]
4.875	1	BV	1	4.67261e4	7.10928e-1	4.02350e-2		2,6-DINITROTOLUENE [2C]
4.933	1	VV B	1	1.49150e4	2.14142	3.86851e-2		1,3-DINITROBENZENE [2C]
5.551	1	BB	1	2.50966e4	1.32880	4.03919e-2		2,4-DINITROTOLUENE [2C]
5.851	1	BV	1	4.72765e4	6.81516e-1	3.90247e-2		3,4-DINITROTOLUENE [2C]
7.106	1	BV	1	4.03906e4	8.42526e-1	4.12175e-2		2,4,6-TRINITROTOLUENE [2C]
7.347	1	VV	1	2.01964e4	1.70120	4.16146e-2		1,3,5-TRINITROBENZENE [2C]
7.417	1	VB	1	2.77745e4	1.22671	4.12673e-2		PETN [2C]
7.944	1	BB	1	5.24061e4	6.45644e-1	4.09821e-2		RDX [2C]
8.297	1	BV	1	3.01747e4	1.04902	3.83393e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.451	1	VV	1	2.77163e4	1.24547	4.18106e-2		3,5-DINITROANILINE [2C]
8.619	1	VB	1	3.50139e4	9.69464e-1	4.11141e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.989	1	BB +	1	3.73986e4	9.42259e-1	4.26819e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.475	1	BB	1	1.17411e4	3.01478	4.28728e-2		TETRYL [2C]
12.382	1	MM	1	8062.38867	4.15750	4.05989e-2		HMX [2C]

Totals without ISTD(s) : 7.74632e-1

OK
11/2/17

Sample Name: A7J3102-CCV1

```
=====
Acq. Operator   : JJK                               Seq. Line :   11
Acq. Instrument : 3337G12416                         Location  : Vial 11
Injection Date  : 10/31/2017 10:35:43 PM              Inj       :    1
                                                    Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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.
```

=====

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: 019F1901.D.Report.TXT

Sequence: A7J3102

Lab Sample ID: A7J3102-CCV2

SDG: A174306

Project: Ashland Kenvil - Kenvil, NJ

Calibration: A171102

Calibration Date: 10/31/17 19:38

Injection Date: 11/01/17

Injection Time: 01:22

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Amino-4,6-dinitrotoluene	PR	0.04000	0.0405	52.57389	45.6358		1.3	20
2-Amino-4,6-dinitrotoluene [2C]	PR	0.04000	0.0410	22.33003	20.52824		2.5	20
4-Amino-2,6-dinitrotoluene	PR	0.04000	0.0405	44.30379	39.56621		1.2	20
4-Amino-2,6-dinitrotoluene [2C]	PR	0.04000	0.0392	22.00607	18.08024		-2.1	20
3,5-Dinitroaniline	PR	0.04000	0.0404	47.94109	41.53412		1.0	20
3,5-Dinitroaniline [2C]	PR	0.04000	0.0411	17.057	16.03392		2.8	20
1,3-Dinitrobenzene	PR	0.04000	0.0421	15.48677	15.09173		5.2	20
1,3-Dinitrobenzene [2C]	PR	0.04000	0.0393	9.788743	8.917795		-1.7	20
2,6-Dinitrotoluene	PR	0.04000	0.0385	64.02083	55.1346		-3.7	20
2,6-Dinitrotoluene [2C]	PR	0.04000	0.0411	31.48848	28.01776		2.8	20
2,4-Dinitrotoluene	PR	0.04000	0.0392	35.91542	31.0573		-1.9	20
2,4-Dinitrotoluene [2C]	PR	0.04000	0.0411	16.73089	15.00293		2.8	20
HMX	PR	0.04000	0.0373	10.78003	9.867693		-6.7	20
HMX [2C]	PR	0.04000	0.0362	4.970472	4.085968		-9.4	20
Nitroglycerin	PR	0.04000	0.0386	40.28677	36.46718		-3.4	20
Nitroglycerin [2C]	PR	0.04000	0.0395	30.05446	27.1541		-1.4	20
3-Nitrotoluene	PR	0.04000	0.0394	4.873363	4.338083		-1.6	20
3-Nitrotoluene [2C]	PR	0.04000	0.0404	4.739045	4.135152		1.0	20
4-Nitrotoluene	PR	0.04000	0.0411	3.181123	3.159912		2.7	20
4-Nitrotoluene [2C]	PR	0.04000	0.0415	4.561078	4.244834		3.7	20
PETN	PR	0.04000	0.0411	20.86613	19.22021		2.7	20
PETN [2C]	PR	0.04000	0.0398	17.54275	15.78641		-0.4	20
RDX	PR	0.04000	0.0422	54.50444	56.84079		5.4	20
RDX [2C]	PR	0.04000	0.0410	32.09321	30.86294		2.6	20
Tetryl	PR	0.04000	0.0422	12.70096	15.92585		5.4	20
Tetryl [2C]	PR	0.04000	0.0401	5.545545	6.278345		0.2	20
1,3,5-Trinitrobenzene	PR	0.04000	0.0411	24.86982	23.18575		2.7	20
1,3,5-Trinitrobenzene [2C]	PR	0.04000	0.0409	12.76891	11.6792		2.2	20
2,4,6-Trinitrotoluene	PR	0.04000	0.0419	50.26337	47.38775		4.8	20
2,4,6-Trinitrotoluene [2C]	PR	0.04000	0.0414	26.06297	23.85089		3.5	20
2,2'-Dinitrobiphenyl	PR	0.04000	0.0423	44.73315	44.55034		5.8	20

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Instrument ID: 3336A52146

Calibration: A171102

Lab File ID: 019B1901.D.Report.TXT

Calibration Date: 10/31/17 19:38

Sequence: A7J3102

Injection Date: 11/01/17

Lab Sample ID: A7J3102-CCV2

Injection Time: 01:22

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,2'-Dinitrobiphenyl [2C]	PR	0.04000	0.0428	22.6953	22.04527		7.0	20

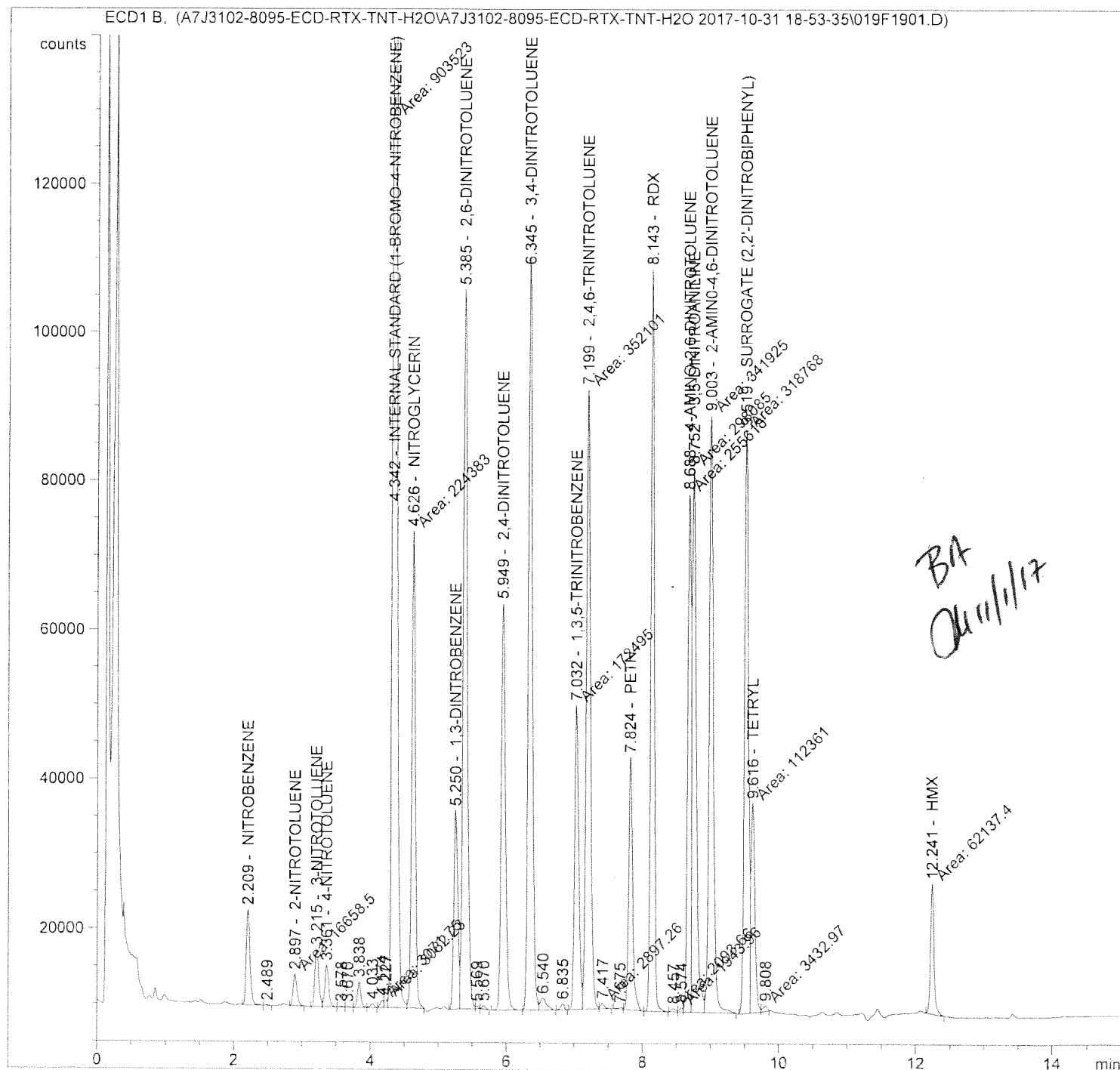
Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

=====

Acq. Operator	: JJK	Seq. Line	: 19
Acq. Instrument	: 3336A52146	Location	: Vial 19
Injection Date	: 11/1/2017 1:22:02 AM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====



BA
04/11/17

```

Acq. Operator   : JJK                               Seq. Line :   19
Acq. Instrument : 3336A52146                         Location  : Vial 19
Injection Date  : 11/1/2017 1:22:02 AM                Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-
                  H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M
Last changed    : 9/7/2017 12:50:49 PM by RWJ
Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M
Last changed    : 11/1/2017 10:26:21 AM by RWJ
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.

```

```
Sorted By           :           Retention Time
Calib. Data Modified :           Wednesday, November 01, 2017 10:24:43 AM
Multiplier:         :           1.0000
Dilution:           :           1.0000
Sample Amount:       :           1.000000  []   (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
2.209	1	BB	1	1.26800e4	5.49655	3.98292e-2		NITROBENZENE
2.897	1	MM	1	4226.75146	16.16684	3.90504e-2		2-NITROTOLUENE
3.215	1	BV	1	7591.08984	9.07237	3.93567e-2		3-NITROTOLUENE
3.361	1	VB	1	5529.44092	13.00136	4.10832e-2		4-NITROTOLUENE
4.342	1	FM	+I	2.18734e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.626	1	FM	1	6.38129e4	1.05916	3.86245e-2		NITROGLYCERIN
5.250	1	BV	1	2.64086e4	2.78813	4.20777e-2		1,3-DINITROBENZENE
5.385	1	VV	1	9.64785e4	6.98467e-1	3.85097e-2		2,6-DINITROTOLUENE
5.949	1	BB	1	5.43463e4	1.26312	3.92293e-2		2,4-DINITROTOLUENE
6.345	1	BV	1	1.01011e5	6.84366e-1	3.95050e-2		3,4-DINITROTOLUENE
7.032	1	MF	1	4.05721e4	1.77186	4.10819e-2		1,3,5-TRINITROBENZENE
7.199	1	FM	1	8.29225e4	8.84549e-1	4.19168e-2		2,4,6-TRINITROTOLUENE
7.824	1	VB	1	3.36329e4	2.13673	4.10684e-2		PETN
8.143	1	BB	1	9.94641e4	7.41894e-1	4.21699e-2		RDX
8.688	1	MF	1	6.92358e4	1.02283	4.04694e-2		4-AMINO-2,6-DINITROTOLUENE
8.752	1	FM	1	7.26794e4	9.72277e-1	4.03827e-2		3,5-DINITROANILINE
9.003	1	FM	1	7.98568e4	8.87473e-1	4.05005e-2		2-AMINO-4,6-DINITROTOLUENE
9.519	1	MF	+	7.79574e4	9.50331e-1	4.23376e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.616	1	FM	1	2.78682e4	2.64726	4.21598e-2		TETRYL
12.241	1	MM	1	1.72672e4	3.78240	3.73237e-2		HMX

Totals without ISTD(s) : 7.66676e-1

=====

Acq. Operator	: JJK	Seq. Line	: 19
Acq. Instrument	: 3336A52146	Location	: Vial 19
Injection Date	: 11/1/2017 1:22:02 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: JJK	Seq. Line	: 19
Acq. Instrument	: 3337G12416	Location	: Vial 19
Injection Date	: 11/1/2017 1:31:23 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

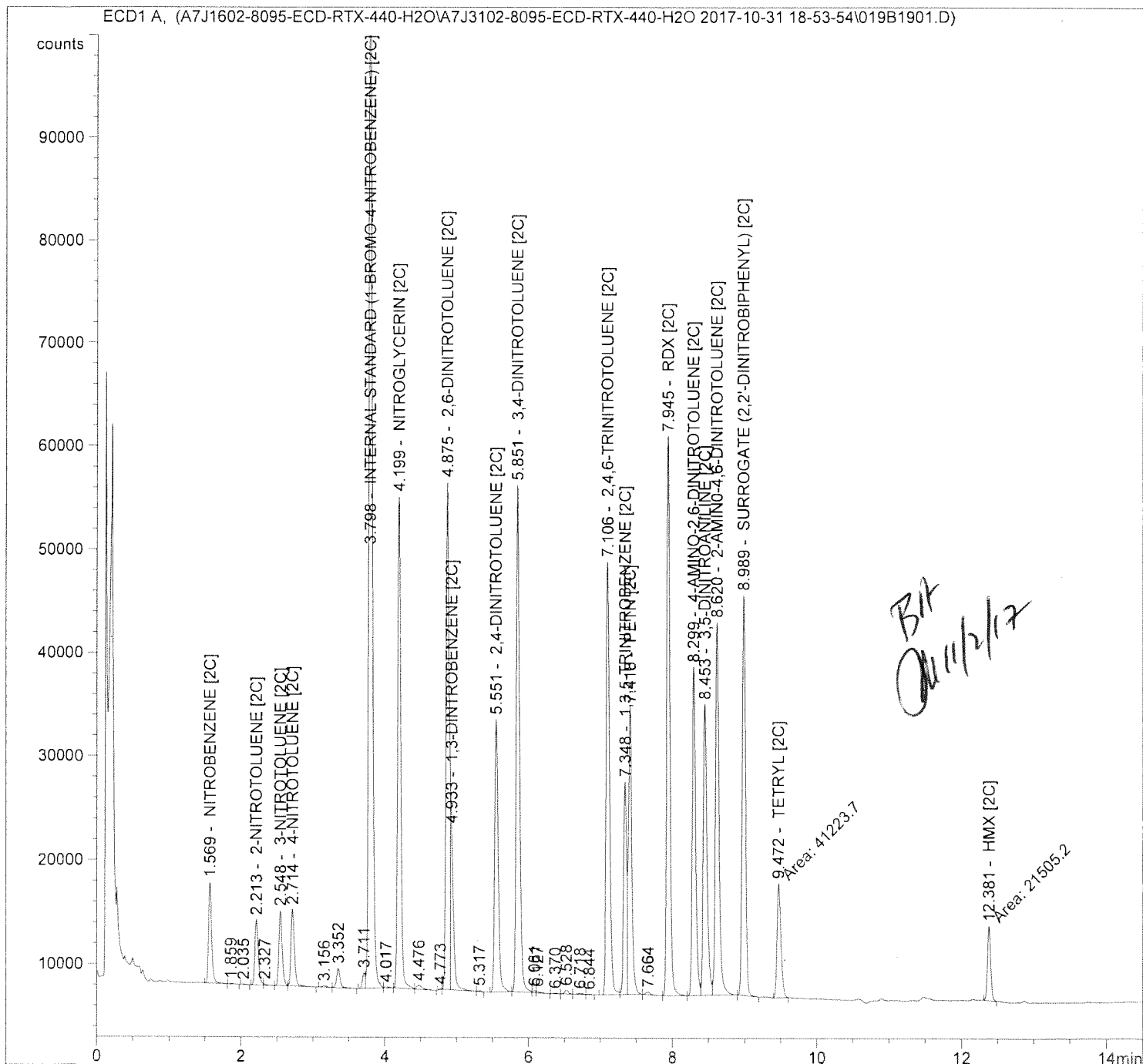
Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:56:17 AM by RWJ
(modified after loading)

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	: 19
Acq. Instrument	: 3337G12416	Location	: Vial 19
Injection Date	: 11/1/2017 1:31:23 AM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:56:17 AM by RWJ
(modified after loading)

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 : 11/2/2017 10:56:20 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
1.569	1	BV	1	9729.19629	3.51484	4.02563e-2		NITROBENZENE [2C]
2.213	1	BV	1	6280.33350	5.41052	4.00012e-2		2-NITROTOLUENE [2C]
2.548	1	VV	1	7235.98633	4.74381	4.04088e-2		3-NITROTOLUENE [2C]
2.714	1	VB	1	7427.91553	4.74215	4.14662e-2		4-NITROTOLUENE [2C]
3.798	1	VV +I	1	1.06184e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.199	1	BV	1	4.75162e4	7.05432e-1	3.94592e-2		NITROGLYCERIN [2C]
4.875	1	BV	1	4.90275e4	7.12154e-1	4.11022e-2		2,6-DINITROTOLUENE [2C]
4.933	1	VV B	1	1.56050e4	2.14118	3.93340e-2		1,3-DINITROBENZENE [2C]
5.551	1	BB	1	2.62532e4	1.33054	4.11210e-2		2,4-DINITROTOLUENE [2C]
5.851	1	BV	1	4.89004e4	6.82012e-1	3.92605e-2		3,4-DINITROTOLUENE [2C]
7.106	1	BV	1	4.17360e4	8.42741e-1	4.14053e-2		2,4,6-TRINITROTOLUENE [2C]
7.348	1	VV	1	2.04371e4	1.69994	4.08982e-2		1,3,5-TRINITROBENZENE [2C]
7.418	1	VB	1	2.76242e4	1.22530	3.98459e-2		PETN [2C]
7.945	1	BB	1	5.40062e4	6.45614e-1	4.10457e-2		RDX [2C]
8.299	1	BV	1	3.16381e4	1.05153	3.91636e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.453	1	VV	1	2.80573e4	1.24519	4.11274e-2		3,5-DINITROANILINE [2C]
8.620	1	VB	1	3.59218e4	9.69349e-1	4.09911e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.989	1	BB +	1	3.85764e4	9.42314e-1	4.27926e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.472	1	MM	1	1.09863e4	3.09772	4.00631e-2		TETRYL [2C]
12.381	1	MM	1	7149.92090	4.30461	3.62315e-2		HMX [2C]

Handwritten signature
11/2/17

```
=====
Acq. Operator   : JJK                               Seq. Line :   19
Acq. Instrument : 3337G12416                         Location  : Vial 19
Injection Date  : 11/1/2017 1:31:23 AM                Inj       :    1
                                                Inj Volume: Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:56:17 AM by RWJ
                  (modified after loading)
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.
=====
```

Totals without ISTD(s) : 7.65974e-1

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: A7J3102

Lab Sample ID: A7J3102-ICV1

SDG: A174306

Project: Ashland Kenvil - Kenvil, NJ

Calibration: A171102

Calibration Date: 10/31/17 19:38

Injection Date: 10/31/17

Injection Time: 22:08

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Amino-4,6-dinitrotoluene	PR	0.04000	0.0364	52.57389	41.65755		-9.1	20
2-Amino-4,6-dinitrotoluene [2C]	PR	0.04000	0.0401	22.33003	22.71338		0.1	20
4-Amino-2,6-dinitrotoluene	PR	0.04000	0.0371	44.30379	36.71558		-7.2	20
4-Amino-2,6-dinitrotoluene [2C]	PR	0.04000	0.0381	22.00607	19.98101		-4.6	20
3,5-Dinitroaniline	PR	0.04000	0.0357	47.94109	37.40235		-10.8	20
3,5-Dinitroaniline [2C]	PR	0.04000	0.0403	17.057	17.79883		0.9	20
1,3-Dinitrobenzene	PR	0.04000	0.0425	15.48677	15.22857		6.2	20
1,3-Dinitrobenzene [2C]	PR	0.04000	0.0388	9.788743	9.940192		-3.1	20
2,6-Dinitrotoluene	PR	0.04000	0.0376	64.02083	53.94747		-6.1	20
2,6-Dinitrotoluene [2C]	PR	0.04000	0.0398	31.48848	30.8053		-0.4	20
2,4-Dinitrotoluene	PR	0.04000	0.0373	35.91542	29.69585		-6.9	20
2,4-Dinitrotoluene [2C]	PR	0.04000	0.0396	16.73089	16.37052		-1.1	20
HMX	PR	0.04000	0.0342	10.78003	9.061318		-14.5	20
HMX [2C]	PR	0.04000	0.0385	4.970472	5.005465		-3.7	20
Nitroglycerin	PR	0.04000	0.0368	40.28677	34.899		-7.9	20
Nitroglycerin [2C]	PR	0.04000	0.0391	30.05446	30.44092		-2.3	20
3-Nitrotoluene	PR	0.04000	0.0387	4.873363	4.273004		-3.3	20
3-Nitrotoluene [2C]	PR	0.04000	0.0404	4.739045	4.676248		1.0	20
4-Nitrotoluene	PR	0.04000	0.0409	3.181123	3.143417		2.1	20
4-Nitrotoluene [2C]	PR	0.04000	0.0415	4.561078	4.803872		3.7	20
PETN	PR	0.04000	0.0389	20.86613	18.32274		-2.7	20
PETN [2C]	PR	0.04000	0.0397	17.54275	17.79048		-0.8	20
RDX	PR	0.04000	0.0398	54.50444	53.6337		-0.6	20
RDX [2C]	PR	0.04000	0.0415	32.09321	35.34217		3.8	20
Tetryl	PR	0.04000	0.0448	12.70096	17.14204		12.0	20
Tetryl [2C]	PR	0.04000	0.0445	5.545545	8.218407		11.2	20
1,3,5-Trinitrobenzene	PR	0.04000	0.0425	24.86982	23.89177		6.2	20
1,3,5-Trinitrobenzene [2C]	PR	0.04000	0.0431	12.76891	13.90462		7.9	20
2,4,6-Trinitrotoluene	PR	0.04000	0.0372	50.26337	42.57015		-7.1	20
2,4,6-Trinitrotoluene [2C]	PR	0.04000	0.0380	26.06297	24.9088		-4.9	20
2,2'-Dinitrobiphenyl	PR	0.04000	0.0396	44.73315	41.87992		-1.0	20

CONTINUING CALIBRATION CHECK

EPA 8095

Laboratory: Pace Analytical - Madison

SDG: A174306

Client: Kennedy Jenks Consultants

Project: Ashland Kenvil - Kenvil, NJ

Instrument ID: 3336A52146

Calibration: A171102

Lab File ID: 010B1001.D.Report.TXT

Calibration Date: 10/31/17 19:38

Sequence: A7J3102

Injection Date: 10/31/17

Lab Sample ID: A7J3102-ICV1

Injection Time: 22:08

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	22.6953	24.52874		5.2	20

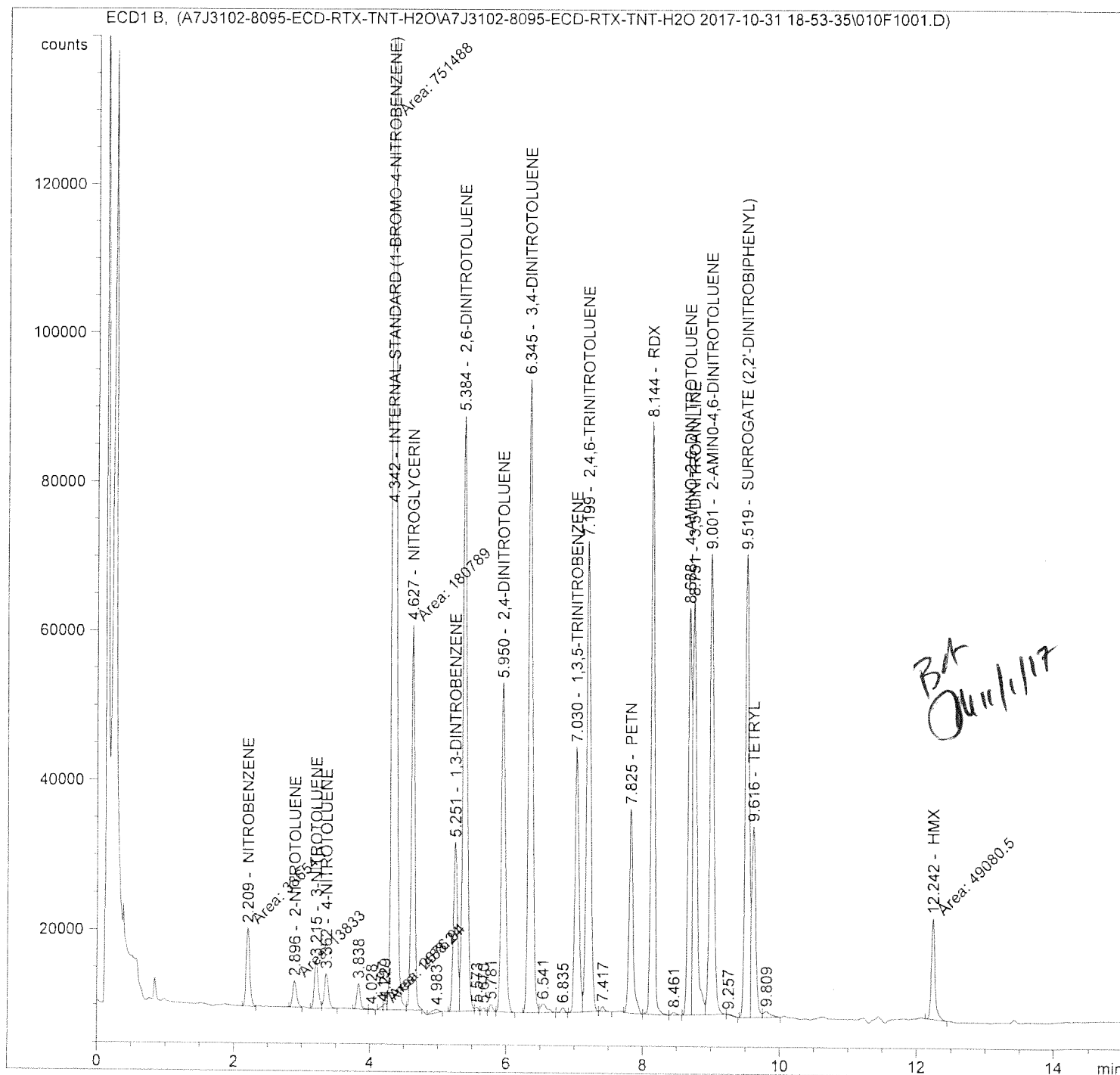
Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

=====

Acq. Operator	: JJK	Seq. Line	: 10
Acq. Instrument	: 3336A52146	Location	: Vial 10
Injection Date	: 10/31/2017 10:08:55 PM	Inj	: 1
		Inj Volume	: Manually
Acq. Method	: C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M		
Last changed	: 9/7/2017 12:50:49 PM by RWJ		
Analysis Method	: C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M		
Last changed	: 11/1/2017 10:26:21 AM by RWJ		
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.		

=====



=====

Acq. Operator	: JJK	Seq. Line	: 10
Acq. Instrument	: 3336A52146	Location	: Vial 10
Injection Date	: 10/31/2017 10:08:55 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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, November 01, 2017 10:24:43 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

#

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1	1.25000e-1	INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
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Signal 1: ECD1 B,

RetTime [min]	Sig	Type	ISTD used	Height [counts]	Amt/Height ratio	Amount	Grp	Name
2.209	1	MF	1	1.04878e4	5.48571	3.90398e-2		NITROBENZENE
2.896	1	MM	1	3546.44116	16.16503	3.89008e-2		2-NITROTOLUENE
3.215	1	BV	1	6297.14258	9.05563	3.86947e-2		3-NITROTOLUENE
3.362	1	VB	1	4632.46631	12.99847	4.08596e-2		4-NITROTOLUENE
4.342	1	FM +I	1	1.84213e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE)
4.627	1	FM	1	5.14308e4	1.05516	3.68241e-2		NITROGLYCERIN
5.251	1	BV	1	2.24424e4	2.79024	4.24913e-2		1,3-DINITROBENZENE
5.384	1	VV	1	7.95026e4	6.96340e-1	3.75658e-2		2,6-DINITROTOLUENE
5.950	1	VB	1	4.37629e4	1.25441	3.72509e-2		2,4-DINITROTOLUENE
6.345	1	BV	1	8.46812e4	6.83998e-1	3.93035e-2		3,4-DINITROTOLUENE
7.030	1	BV	1	3.52094e4	1.77806	4.24810e-2		1,3,5-TRINITROBENZENE
7.199	1	VB	1	6.27358e4	8.73007e-1	3.71640e-2		2,4,6-TRINITROTOLUENE
7.825	1	VB	1	2.70023e4	2.12355	3.89092e-2		PETN
8.144	1	BB	1	7.90402e4	7.41298e-1	3.97586e-2		RDX
8.688	1	BV	1	5.41079e4	1.01151	3.71382e-2		4-AMINO-2,6-DINITROTOLUENE
8.751	1	VV	1	5.51200e4	9.54330e-1	3.56942e-2		3,5-DINITROANILINE
9.001	1	VB	1	6.13909e4	8.73147e-1	3.63732e-2		2-AMINO-4,6-DINITROTOLUENE
9.519	1	BV +	1	6.17186e4	9.46023e-1	3.96193e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.616	1	VV	1	2.52623e4	2.61320	4.47955e-2		TETRYL
12.242	1	MM	1	1.33537e4	3.77541	3.42103e-2		HMX

Totals without ISTD(s) : 7.37074e-1

OK
11/1/17

=====

Acq. Operator	: JJK	Seq. Line	: 10
Acq. Instrument	: 3336A52146	Location	: Vial 10
Injection Date	: 10/31/2017 10:08:55 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\1\DATA\A7J3102-8095-ECD-RTX-TNT-H2O\A7J3102-8095-ECD-RTX-TNT-H2O 2017-10-31 18-53-35\8095-ECD-RTX-TNT.M

Last changed : 9/7/2017 12:50:49 PM by RWJ

Analysis Method : C:\CHEM32\1\METHODS\A7J3102-ECD-8095-RTX-TNT-H2O.M

Last changed : 11/1/2017 10:26:21 AM by RWJ

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.

=====

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

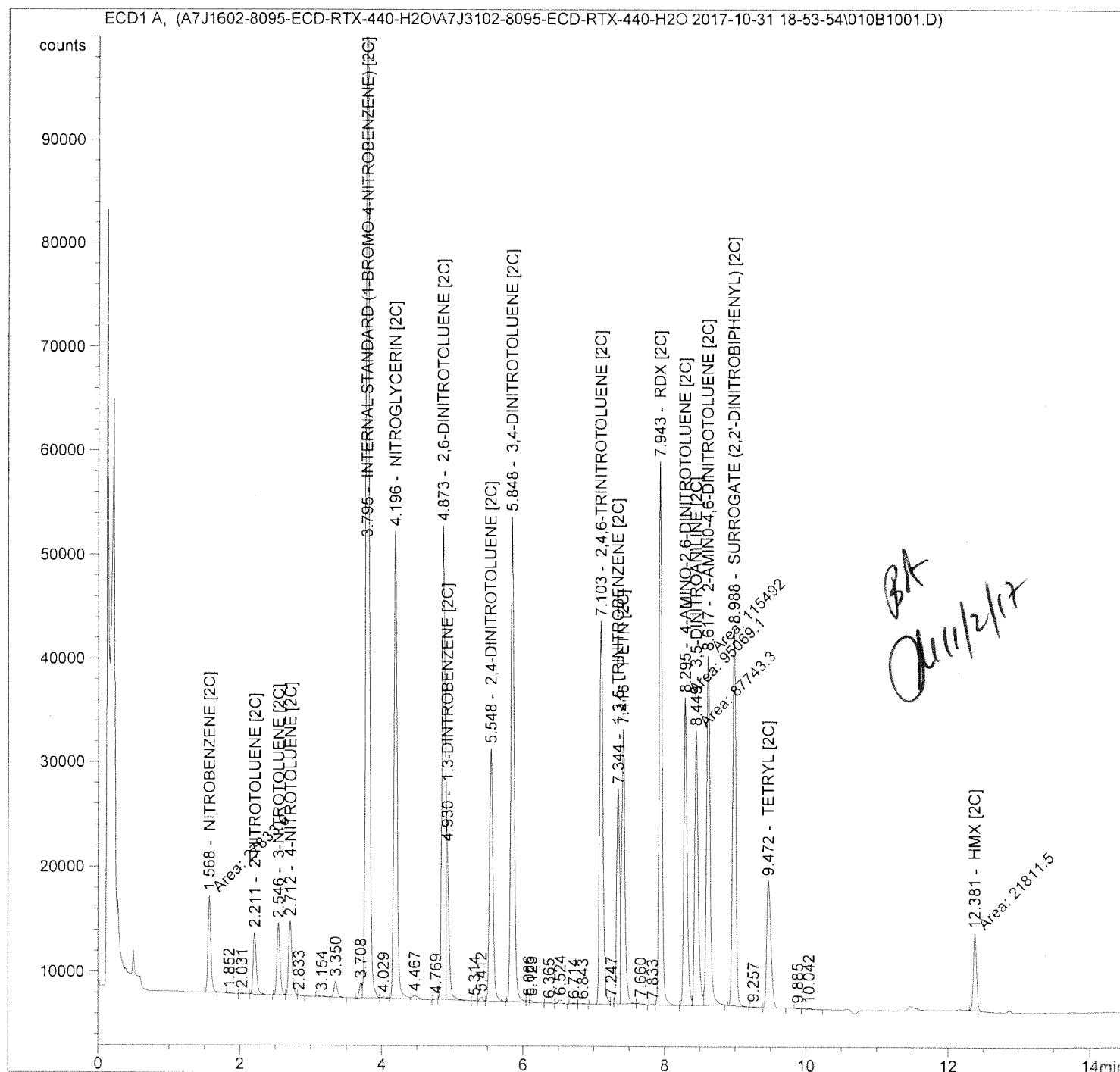
*** End of Report ***

```

Acq. Operator   : JJK                      Seq. Line : 10
Acq. Instrument : 3337G12416              Location  : Vial 10
Injection Date  : 10/31/2017 10:13:47 PM Inj       : 1
                                           Inj Volume : Manually

Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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	: 10
Acq. Instrument	: 3337G12416	Location	: Vial 10
Injection Date	: 10/31/2017 10:13:47 PM	Inj	: 1
		Inj Volume	: Manually

Acq. Method : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M

Last changed : 10/11/2017 6:12:28 PM by RWJ

Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M

Last changed : 11/2/2017 10:42:56 AM by RWJ

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 : Thursday, November 02, 2017 10:42:21 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
------	-------------	------

#

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

1.568	1	MM	1	9251.47266	3.51438	4.01749e-2		NITROBENZENE [2C]
2.211	1	BB	1	5945.06836	5.40890	3.97339e-2		2-NITROTOLUENE [2C]
2.546	1	BB	1	6891.40576	4.74366	4.03940e-2		3-NITROTOLUENE [2C]
2.712	1	BV	1	7079.48633	4.74223	4.14839e-2		4-NITROTOLUENE [2C]
3.795	1	VB +I	1	1.01161e5	1.00000	1.25000e-1		INTERNAL STANDARD (1-BROMO-4-NITROBENZENE) [2C]
4.196	1	VV	1	4.48609e4	7.05348e-1	3.90991e-2		NITROGLYCERIN [2C]
4.873	1	BV	1	4.53979e4	7.10375e-1	3.98491e-2		2,6-DINITROTOLUENE [2C]
4.930	1	VV B	1	1.46489e4	2.14139	3.87612e-2		1,3-DINITROBENZENE [2C]
5.548	1	VB	1	2.41253e4	1.32676	3.95512e-2		2,4-DINITROTOLUENE [2C]
5.848	1	BV	1	4.65178e4	6.81872e-1	3.91938e-2		3,4-DINITROTOLUENE [2C]
7.103	1	BV	1	3.67082e4	8.38755e-1	3.80446e-2		2,4,6-TRINITROTOLUENE [2C]
7.344	1	VV	1	2.04913e4	1.70381	4.31404e-2		1,3,5-TRINITROBENZENE [2C]
7.416	1	VB	1	2.62179e4	1.22514	3.96898e-2		PETN [2C]
7.943	1	VB	1	5.20839e4	6.45382e-1	4.15351e-2		RDX [2C]
8.295	1	MF	1	2.94461e4	1.04843	3.81470e-2		4-AMINO-2,6-DINITROTOLUENE [2C]
8.449	1	MF	1	2.62302e4	1.24486	4.03477e-2		3,5-DINITROANILINE [2C]
8.617	1	FM	1	3.34728e4	9.68468e-1	4.00565e-2		2-AMINO-4,6-DINITROTOLUENE [2C]
8.988	1	BB +	1	3.61481e4	9.41953e-1	4.20737e-2		SURROGATE (2,2'-DINITROBIPHENYL)
9.472	1	BB	1	1.21115e4	2.97110	4.44643e-2		TETRYL [2C]
12.381	1	MM	1	7376.57422	4.22510	3.85112e-2		HMX [2C]

Totals without ISTD(s) : 7.64251e-1

OK
11/2/19

Sample Name: A7J3102-ICV1

```
=====
Acq. Operator   : JJK                               Seq. Line :   10
Acq. Instrument : 3337G12416                         Location  : Vial 10
Injection Date  : 10/31/2017 10:13:47 PM              Inj       :    1
                                                Inj Volume : Manually
Acq. Method     : C:\CHEM32\2\DATA\A7J1602-8095-ECD-RTX-440-H2O\A7J3102-8095-ECD-RTX-440-
                  H2O 2017-10-31 18-53-54\8095-ECD-RTX-440.M
Last changed    : 10/11/2017 6:12:28 PM by RWJ
Analysis Method : C:\CHEM32\2\METHODS\A7J3102-8095-ECD-RTX-440-H2O.M
Last changed    : 11/2/2017 10:42:56 AM by RWJ
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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1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison
 Client: Kennedy Jenks Consultants
 Sequence: A7J3102

SDG: A174306
 Project: Ashland Kenvil - Kenvil, NJ
 Instrument: 3336A52146
 Calibration: A171102

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Instrument Blank (A7J3102-IBL1) ug/mL				Lab File ID: 001F0101.D.ReportAnalyzed: 10/31/17 18:55				
2,2'-Dinitrobiphenyl			60 - 140	9.523	9.5195	0.0035	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			60 - 140		8.9865	-8.9865	+/-1.000	
Instrument Blank (A7J3102-IBL2) ug/mL				Lab File ID: 002F0201.D.ReportAnalyzed: 10/31/17 19:17				
2,2'-Dinitrobiphenyl			60 - 140	9.513	9.5195	-0.0065	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			60 - 140		8.9865	-8.9865	+/-1.000	
Instrument Blank (A7J3102-IBL3) ug/mL				Lab File ID: 009F0901.D.ReportAnalyzed: 10/31/17 21:47				
2,2'-Dinitrobiphenyl			60 - 140	9.519	9.5195	-0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			60 - 140	8.983	8.9865	-0.0035	+/-1.000	
Initial Cal Check (A7J3102-ICV1) ug/mL				Lab File ID: 010F1001.D.ReportAnalyzed: 10/31/17 22:08				
2,2'-Dinitrobiphenyl	0.04000	99.0	80 - 120	9.519	9.5195	-0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	0.04000	105	80 - 120	8.988	8.9865	0.0015	+/-1.000	
Calibration Check (A7J3102-CCV1) ug/mL				Lab File ID: 011F1101.D.ReportAnalyzed: 10/31/17 22:30				
2,2'-Dinitrobiphenyl	0.04000	106	80 - 120	9.519	9.5195	-0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	0.04000	107	80 - 120	8.989	8.9865	0.0025	+/-1.000	
Instrument Blank (A7J3102-IBL4) ug/mL				Lab File ID: 012F1201.D.ReportAnalyzed: 10/31/17 22:51				
2,2'-Dinitrobiphenyl			60 - 140	9.518	9.5195	-0.0015	+/-1.000	
2,2'-Dinitrobiphenyl [2C]			60 - 140		8.9865	-8.9865	+/-1.000	
Blank (A710097-BLK1) ug/L				Lab File ID: 013F1301.D.ReportAnalyzed: 10/31/17 23:13				
2,2'-Dinitrobiphenyl	2.500	97.6	60 - 140	9.52	9.5195	0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	2.500	108	60 - 140	8.983	8.9865	-0.0035	+/-1.000	
Blank (A710097-BLK2) ug/L				Lab File ID: 014F1401.D.ReportAnalyzed: 10/31/17 23:34				
2,2'-Dinitrobiphenyl	2.500	106	60 - 140	9.517	9.5195	-0.0025	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	2.500	107	60 - 140	8.985	8.9865	-0.0015	+/-1.000	
PW-890-102417 (A174306-01) ug/L				Lab File ID: 015F1501.D.ReportAnalyzed: 10/31/17 23:55				
2,2'-Dinitrobiphenyl	2.500	112	60 - 140	9.519	9.5195	-0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	2.500	104	60 - 140	8.988	8.9865	0.0015	+/-1.000	
BD102417 (A174306-02) ug/L				Lab File ID: 016F1601.D.ReportAnalyzed: 11/01/17 00:17				
2,2'-Dinitrobiphenyl	2.500	109	60 - 140	9.519	9.5195	-0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	2.500	104	60 - 140	8.989	8.9865	0.0025	+/-1.000	
LCS (A710097-BS1) ug/L				Lab File ID: 017F1701.D.ReportAnalyzed: 11/01/17 00:39				
2,2'-Dinitrobiphenyl	2.500	110	60 - 140	9.519	9.5195	-0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	2.500	105	60 - 140	8.985	8.9865	-0.0015	+/-1.000	
LCS Dup (A710097-BSD1) ug/L				Lab File ID: 018F1801.D.ReportAnalyzed: 11/01/17 01:00				
2,2'-Dinitrobiphenyl	2.500	102	60 - 140	9.518	9.5195	-0.0015	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	2.500	109	60 - 140	8.984	8.9865	-0.0025	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison
 Client: Kennedy Jenks Consultants
 Sequence: A7J3102

SDG: A174306
 Project: Ashland Kenvil - Kenvil, NJ
 Instrument: 3336A52146
 Calibration: A171102

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (A7J3102-CCV2) ug/mL				Lab File ID: 019F1901.D.ReportAnalyzed: 11/01/17 01:22				
2,2'-Dinitrobiphenyl	0.04000	106	80 - 120	9.519	9.5195	-0.0005	+/-1.000	
2,2'-Dinitrobiphenyl [2C]	0.04000	107	80 - 120	8.989	8.9865	0.0025	+/-1.000	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Sequence: A7J3102

Matrix: Water

SDG: A174306

Project: Ashland Kenvil - Kenvil, NJ

Instrument: 3336A52146

Calibration: A171102

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Instrument Blank (A7J3102-IBL1)			Lab File ID: 001F0101.D.Report.TXT			Analyzed: 10/31/17 18:55			
1-Bromo-4-nitrobenzene			179863	4.343		50 - 300	-4.3430	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			103514	4.343		50 - 300	-3.7980	+/-0.50	*
Instrument Blank (A7J3102-IBL2)			Lab File ID: 002F0201.D.Report.TXT			Analyzed: 10/31/17 19:17			
1-Bromo-4-nitrobenzene			179863	4.343		50 - 300	-4.3430	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			103514	4.343		50 - 300	-3.7980	+/-0.50	*
Instrument Blank (A7J3102-IBL3)			Lab File ID: 009F0901.D.Report.TXT			Analyzed: 10/31/17 21:47			
1-Bromo-4-nitrobenzene			179863	4.343		50 - 300	-4.3430	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			103514	4.343		50 - 300	-3.7980	+/-0.50	*
Initial Cal Check (A7J3102-ICV1)			Lab File ID: 010F1001.D.Report.TXT			Analyzed: 10/31/17 22:08			
1-Bromo-4-nitrobenzene	184213	4.342	179863	4.343	102	50 - 300	-0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	101161	3.795	103514	4.343	98	50 - 300	-0.0030	+/-0.50	
Calibration Check (A7J3102-CCV1)			Lab File ID: 011F1101.D.Report.TXT			Analyzed: 10/31/17 22:30			
1-Bromo-4-nitrobenzene	200293	4.344	179863	4.343	111	50 - 300	0.0020	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	103203	3.799	103514	4.343	100	50 - 300	0.0040	+/-0.50	
Instrument Blank (A7J3102-IBL4)			Lab File ID: 012F1201.D.Report.TXT			Analyzed: 10/31/17 22:51			
1-Bromo-4-nitrobenzene			179863	4.343		50 - 300	-4.3440	+/-0.50	*
1-Bromo-4-nitrobenzene [2C]			103514	4.343		50 - 300	-3.7990	+/-0.50	*
Blank (A710097-BLK1)			Lab File ID: 013F1301.D.Report.TXT			Analyzed: 10/31/17 23:13			
1-Bromo-4-nitrobenzene	232577	4.344	179863	4.343	129	50 - 300	0.0000	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	182186	3.792	103514	4.343	176	50 - 300	-0.0070	+/-0.50	
Blank (A710097-BLK2)			Lab File ID: 014F1401.D.Report.TXT			Analyzed: 10/31/17 23:34			
1-Bromo-4-nitrobenzene	301845	4.342	179863	4.343	168	50 - 300	-0.0020	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	166975	3.793	103514	4.343	161	50 - 300	-0.0060	+/-0.50	
PW-890-102417 (A174306-01)			Lab File ID: 015F1501.D.Report.TXT			Analyzed: 10/31/17 23:55			
1-Bromo-4-nitrobenzene	331840	4.343	179863	4.343	184	50 - 300	-0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	185247	3.798	103514	4.343	179	50 - 300	-0.0010	+/-0.50	
BD102417 (A174306-02)			Lab File ID: 016F1601.D.Report.TXT			Analyzed: 11/01/17 00:17			
1-Bromo-4-nitrobenzene	351311	4.343	179863	4.343	195	50 - 300	-0.0010	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	180096	3.8	103514	4.343	174	50 - 300	0.0010	+/-0.50	
LCS (A710097-BS1)			Lab File ID: 017F1701.D.Report.TXT			Analyzed: 11/01/17 00:39			
1-Bromo-4-nitrobenzene	368492	4.342	179863	4.343	205	50 - 300	-0.0020	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	175652	3.794	103514	4.343	170	50 - 300	-0.0050	+/-0.50	
LCS Dup (A710097-BSD1)			Lab File ID: 018F1801.D.Report.TXT			Analyzed: 11/01/17 01:00			
1-Bromo-4-nitrobenzene	341797	4.341	179863	4.343	190	50 - 300	-0.0030	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	173898	3.793	103514	4.343	168	50 - 300	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8095

Laboratory: Pace Analytical - Madison

Client: Kennedy Jenks Consultants

Sequence: A7J3102

Matrix: Water

SDG: A174306

Project: Ashland Kenvil - Kenvil, NJ

Instrument: 3336A52146

Calibration: A171102

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (A7J3102-CCV2)			Lab File ID: 019F1901.D.Report.TXT			Analyzed: 11/01/17 01:22			
1-Bromo-4-nitrobenzene	218734	4.342	179863	4.343	122	50 - 300	-0.0020	+/-0.50	
1-Bromo-4-nitrobenzene [2C]	106184	3.798	103514	4.343	103	50 - 300	-0.0010	+/-0.50	

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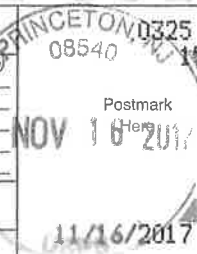
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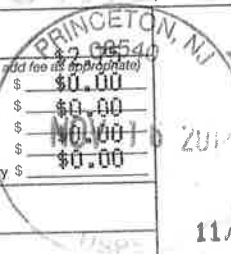
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