ANALYTICAL REPORT

Job Number: 280-149356-1

Job Description: Cornhusker (CHAAP)

For:
Brice Environmental Services, Corp
3800 Centerpoint Drive, Suite 520
Anchorage, AK 99503

Attention: Corey Schwabenlander

Approved for release.
Patrick J McEntee
Client Service Manager
6/14/2021 8:49 AM

Patrick J McEntee, Client Service Manager
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0107
Patrick.McEntee@Eurofinset.com
06/14/2021

cc: Dean Converse
Jared DeSadier
Mr. Anthony Farinacci

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Case Narrative 5

Detection Summary 6

Client Sample Results 8

Default Detection Limits 13

Surrogate Summary 14

QC Sample Results 15

QC Association 18

Chronicle 20

Certification Summary 23

Method Summary 24

Sample Summary 25

Manual Integration Summary 26

Reagent Traceability 44

COAs 48

Organic Sample Data 123

HPLC/IC 123

8330A_DOD5 123

8330A_DOD5 QC Summary 124

8330A_DOD5 Sample Data 138

Standards Data 284

8330A_DOD5 ICAL Data 284

8330A_DOD5 CCAL Data 462

Raw QC Data 533

Table of Contents

8330A_DOD5 Blank Data 533

8330A_DOD5 LCS/LCSD Data 540

8330A_DOD5 MS/MSD Data 550

8330A_DOD5 Run Logs 577

8330A_DOD5 Prep Data 583

Shipping and Receiving Documents 586

Client Chain of Custody 587

Sample Receipt Checklist 590

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

CASE NARRATIVE

Client: Brice Environmental Services, Corp

Project: Cornhusker (CHAAP)

Report Number: 280-149356-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/3/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.6º C and 5.3º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): One container in sample OS001-DP06-45 is labeled as OS001-DP06-46

NITROAROMATICS AND NITRAMINES (HPLC)

Samples OS003-DP06-25 (280-149356-1), OS003-DP06-35 (280-149356-2), OS003-DP06-45 (280-149356-3), OS001-DP06-25 (280-149356-4), OS001-DP06-35 (280-149356-5), OS001-DP06-45 (280-149356-6), NW050R-DP06-20 (280-149356-7), NW050R-DP06-35 (280-149356-8), NW050R-DP06-60 (280-149356-9) and OS501-DP06-25 (280-149356-10) were analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with 8330A. The samples were prepared on 06/08/2021 and analyzed on 06/09/2021, 06/10/2021 and 06/11/2021.

Samples OS001-DP06-25 (280-149356-4)[5X] and OS501-DP06-25 (280-149356-10)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Surrogate recovery for the following sample in preparation batch 280-539020 and analytical batch 280-539202 was outside the lower control limits: OS001-DP06-35 (280-149356-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

2-Nitrotoluene, 3-Nitrotoluene, 4-Amino-2,6-dinitrotoluene and 4-Nitrotoluene failed the recovery criteria low for the MS of sample OS003-DP06-45MS (280-149356-3) in batch 280-539202. Several analytes failed the recovery criteria low for the MSD of sample OS003-DP06-45MSD (280-149356-3) in batch 280-539202. Refer to the QC report for details.

The %RPD between the primary and confirmation column exceeded 40% for 4-Amino-2,6-dinitrotoluene, 2-Amino-4,6-dinitrotoluene, RDX and 2,4,6-Trinitrotoluene for the following samples: OS001-DP06-25 (280-149356-4), OS001-DP06-45 (280-149356-6) and OS501-DP06-25 (280-149356-10) in preparation batch 280-539020 and analytical batch 280-539386 .The results from both columns has been reported and qualified in accordance with the laboratory's SOP.

The following samples required filtration to reduce matrix interferences: OS003-DP06-25 (280-149356-1), OS003-DP06-35 (280-149356-2), OS003-DP06-45 (280-149356-3), OS003-DP06-45 (280-149356-3[MS]), OS003-DP06-45 (280-149356-3[MSD]), OS001-DP06-25 (280-149356-4), OS001-DP06-35 (280-149356-5), OS001-DP06-45 (280-149356-6), NW050R-DP06-20 (280-149356-7), NW050R-DP06-35 (280-149356-8), NW050R-DP06-60 (280-149356-9) and OS501-DP06-25 (280-149356-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Client Sample ID: OS003-DP06-25 — Lab Sample ID: 280-149356-1

No Detections.

Client Sample ID: OS003-DP06-35 — Lab Sample ID: 280-149356-2

No Detections.

Client Sample ID: OS003-DP06-45 — Lab Sample ID: 280-149356-3

No Detections.

Client Sample ID: OS001-DP06-25 — Lab Sample ID: 280-149356-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.84	M	0.21	0.20	0.083	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	2.3		0.11	0.099	0.050	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	1.8		0.15	0.12	0.057	ug/L	1		8330A	Total/NA
RDX	0.40	M J1	0.21	0.20	0.051	ug/L	1		8330A	Total/NA
RDX	0.19	J M J1	0.21	0.20	0.051	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene - DL	26	D	0.55	0.50	0.22	ug/L	5		8330A	Total/NA

Client Sample ID: OS001-DP06-35 — Lab Sample ID: 280-149356-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	23	Q M	0.21	0.20	0.083	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	4.9	Q	0.11	0.098	0.044	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	0.52	Q	0.11	0.098	0.050	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	0.99	Q	0.15	0.12	0.057	ug/L	1		8330A	Total/NA

Client Sample ID: OS001-DP06-45 — Lab Sample ID: 280-149356-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	5.4	M	0.21	0.20	0.083	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	0.34	J1	0.11	0.099	0.045	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	0.22	J1	0.11	0.099	0.045	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	0.23	M J1	0.11	0.099	0.050	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	0.46	J1	0.11	0.099	0.050	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	0.13	J J1	0.15	0.12	0.057	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	0.30	J1	0.15	0.12	0.057	ug/L	1		8330A	Total/NA

Client Sample ID: NW050R-DP06-20 — Lab Sample ID: 280-149356-7

No Detections.

Client Sample ID: NW050R-DP06-35 — Lab Sample ID: 280-149356-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.17	J M	0.21	0.20	0.085	ug/L	1		8330A	Total/NA

Client Sample ID: NW050R-DP06-60 — Lab Sample ID: 280-149356-9

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Client Sample ID: OS501-DP06-25 — Lab Sample ID: 280-149356-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.89	M	0.21	0.20	0.084	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	2.4		0.11	0.10	0.051	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	1.8		0.15	0.12	0.058	ug/L	1		8330A	Total/NA
RDX	0.39	M J1	0.21	0.20	0.051	ug/L	1		8330A	Total/NA
RDX	0.17	J M J1	0.21	0.20	0.051	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene - DL	27	D	0.55	0.50	0.22	ug/L	5		8330A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OS003-DP06-25

Lab Sample ID: 280-149356-1

Date Collected: 06/02/21 08:30
Date Received: 06/03/21 09:45

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U M	0.21	0.20	0.083	ug/L		06/09/21 17:33	1
1,3-Dinitrobenzene	0.099	U M	0.11	0.099	0.036	ug/L		06/09/21 17:33	1
2,4,6-Trinitrotoluene	0.099	U	0.11	0.099	0.044	ug/L		06/09/21 17:33	1
2,4-Dinitrotoluene	0.079	U	0.099	0.079	0.027	ug/L		06/09/21 17:33	1
2,6-Dinitrotoluene	0.079	U	0.099	0.079	0.040	ug/L		06/09/21 17:33	1
2-Amino-4,6-dinitrotoluene	0.099	U	0.11	0.099	0.050	ug/L		06/09/21 17:33	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.084	ug/L		06/09/21 17:33	1
3-Nitrotoluene	0.39	U	0.39	0.39	0.19	ug/L		06/09/21 17:33	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057	ug/L		06/09/21 17:33	1
4-Nitrotoluene	0.39	U	0.40	0.39	0.099	ug/L		06/09/21 17:33	1
HMX	0.20	U	0.21	0.20	0.086	ug/L		06/09/21 17:33	1
MNX	0.39	U M	2.0	0.39	0.15	ug/L		06/09/21 17:33	1
Nitrobenzene	0.20	U	0.21	0.20	0.090	ug/L		06/09/21 17:33	1
RDX	0.20	U	0.21	0.20	0.051	ug/L		06/09/21 17:33	1
Tetryl	0.099	U M	0.11	0.099	0.031	ug/L		06/09/21 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*86*		*83 - 119*	*06/08/21 18:12*	*06/09/21 17:33*	*1*

Client Sample ID: OS003-DP06-35

Lab Sample ID: 280-149356-2

Date Collected: 06/02/21 09:55
Date Received: 06/03/21 09:45

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.086	ug/L		06/09/21 17:56	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.038	ug/L		06/09/21 17:56	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.046	ug/L		06/09/21 17:56	1
2,4-Dinitrotoluene	0.082	U	0.10	0.082	0.028	ug/L		06/09/21 17:56	1
2,6-Dinitrotoluene	0.082	U	0.10	0.082	0.041	ug/L		06/09/21 17:56	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.052	ug/L		06/09/21 17:56	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.087	ug/L		06/09/21 17:56	1
3-Nitrotoluene	0.41	U	0.41	0.41	0.20	ug/L		06/09/21 17:56	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.059	ug/L		06/09/21 17:56	1
4-Nitrotoluene	0.41	U	0.42	0.41	0.10	ug/L		06/09/21 17:56	1
HMX	0.20	U M	0.21	0.20	0.089	ug/L		06/09/21 17:56	1
MNX	0.41	U	2.0	0.41	0.16	ug/L		06/09/21 17:56	1
Nitrobenzene	0.20	U	0.21	0.20	0.093	ug/L		06/09/21 17:56	1
RDX	0.20	U	0.21	0.20	0.053	ug/L		06/09/21 17:56	1
Tetryl	0.10	U M	0.11	0.10	0.032	ug/L		06/09/21 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*96*		*83 - 119*	*06/08/21 18:12*	*06/09/21 17:56*	*1*

Client Sample ID: OS003-DP06-45

Lab Sample ID: 280-149356-3

Date Collected: 06/02/21 10:40
Date Received: 06/03/21 09:45

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084	ug/L		06/09/21 18:19	1

Client Sample ID: OS003-DP06-45

Lab Sample ID: 280-149356-3

Date Collected: 06/02/21 10:40
Date Received: 06/03/21 09:45
Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/09/21 18:19	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/09/21 18:19	1
2,4-Dinitrotoluene	0.080	U J1	0.10	0.080	0.027	ug/L		06/09/21 18:19	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/09/21 18:19	1
2-Amino-4,6-dinitrotoluene	0.10	U J1	0.11	0.10	0.051	ug/L		06/09/21 18:19	1
2-Nitrotoluene	0.20	U J1	0.21	0.20	0.085	ug/L		06/09/21 18:19	1
3-Nitrotoluene	0.40	U J1	0.40	0.40	0.19	ug/L		06/09/21 18:19	1
4-Amino-2,6-dinitrotoluene	0.12	U J1	0.15	0.12	0.058	ug/L		06/09/21 18:19	1
4-Nitrotoluene	0.40	U J1	0.41	0.40	0.10	ug/L		06/09/21 18:19	1
HMX	0.20	U	0.21	0.20	0.087	ug/L		06/09/21 18:19	1
MNX	0.40	U	2.0	0.40	0.15	ug/L		06/09/21 18:19	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/09/21 18:19	1
RDX	0.20	U	0.21	0.20	0.051	ug/L		06/09/21 18:19	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/09/21 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*96*		*83 - 119*	*06/08/21 18:12*	*06/09/21 18:19*	*1*

Client Sample ID: OS001-DP06-25

Lab Sample ID: 280-149356-4

Date Collected: 06/02/21 11:45
Date Received: 06/03/21 09:45
Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.84**	**M**	0.21	0.20	0.083	ug/L		06/09/21 21:00	1
1,3-Dinitrobenzene	0.099	U M	0.11	0.099	0.037	ug/L		06/09/21 21:00	1
2,4-Dinitrotoluene	0.079	U	0.099	0.079	0.027	ug/L		06/10/21 20:47	1
2,6-Dinitrotoluene	0.079	U	0.099	0.079	0.040	ug/L		06/09/21 21:00	1
2-Amino-4,6-dinitrotoluene	**2.3**		0.11	0.099	0.050	ug/L		06/09/21 21:00	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.085	ug/L		06/09/21 21:00	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.19	ug/L		06/09/21 21:00	1
4-Amino-2,6-dinitrotoluene	**1.8**		0.15	0.12	0.057	ug/L		06/09/21 21:00	1
4-Nitrotoluene	0.40	U M	0.41	0.40	0.099	ug/L		06/09/21 21:00	1
HMX	0.20	U	0.21	0.20	0.087	ug/L		06/10/21 20:47	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/09/21 21:00	1
Nitrobenzene	0.20	U	0.21	0.20	0.090	ug/L		06/09/21 21:00	1
RDX	**0.40**	**M J1**	0.21	0.20	0.051	ug/L		06/09/21 21:00	1
RDX	**0.19**	**J M J1**	0.21	0.20	0.051	ug/L		06/10/21 20:47	1
Tetryl	0.099	U M	0.11	0.099	0.032	ug/L		06/09/21 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*91*	*M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 21:00*	*1*
1,2-Dinitrobenzene	*99*	*M*	*83 - 119*	*06/08/21 18:12*	*06/10/21 20:47*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,6-Trinitrotoluene	**26**	**D**	0.55	0.50	0.22	ug/L		06/10/21 16:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*93*	*D*	*83 - 119*	*06/08/21 18:12*	*06/10/21 16:24*	*5*
1,2-Dinitrobenzene	*90*	*D*	*83 - 119*	*06/08/21 18:12*	*06/10/21 21:22*	*5*

Client Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Client Sample ID: OS001-DP06-35

Lab Sample ID: 280-149356-5

Date Collected: 06/02/21 12:20
Date Received: 06/03/21 09:45

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**23**	**Q M**	0.21	0.20	0.083	ug/L		06/09/21 21:23	1
1,3-Dinitrobenzene	0.098	U Q M	0.11	0.098	0.036	ug/L		06/09/21 21:23	1
2,4,6-Trinitrotoluene	**4.9**	**Q**	0.11	0.098	0.044	ug/L		06/09/21 21:23	1
2,4-Dinitrotoluene	0.079	U Q	0.098	0.079	0.027	ug/L		06/09/21 21:23	1
2,6-Dinitrotoluene	0.079	U Q	0.098	0.079	0.039	ug/L		06/10/21 21:57	1
2-Amino-4,6-dinitrotoluene	**0.52**	**Q**	0.11	0.098	0.050	ug/L		06/09/21 21:23	1
2-Nitrotoluene	0.20	U Q	0.21	0.20	0.084	ug/L		06/09/21 21:23	1
3-Nitrotoluene	0.39	U Q	0.39	0.39	0.19	ug/L		06/09/21 21:23	1
4-Amino-2,6-dinitrotoluene	**0.99**	**Q**	0.15	0.12	0.057	ug/L		06/09/21 21:23	1
4-Nitrotoluene	0.39	U Q M	0.40	0.39	0.098	ug/L		06/09/21 21:23	1
HMX	0.20	U Q	0.21	0.20	0.086	ug/L		06/09/21 21:23	1
MNX	0.39	U	2.0	0.39	0.15	ug/L		06/09/21 21:23	1
Nitrobenzene	0.20	U Q M	0.21	0.20	0.090	ug/L		06/09/21 21:23	1
RDX	0.20	U Q M	0.21	0.20	0.051	ug/L		06/09/21 21:23	1
Tetryl	0.098	U Q M	0.11	0.098	0.031	ug/L		06/09/21 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*79*	*Q M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 21:23*	*1*
1,2-Dinitrobenzene	*71*	*M Q*	*83 - 119*	*06/08/21 18:12*	*06/10/21 21:57*	*1*

Client Sample ID: OS001-DP06-45

Lab Sample ID: 280-149356-6

Date Collected: 06/02/21 13:05
Date Received: 06/03/21 09:45

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**5.4**	**M**	0.21	0.20	0.083	ug/L		06/09/21 21:46	1
1,3-Dinitrobenzene	0.099	U	0.11	0.099	0.037	ug/L		06/10/21 22:32	1
2,4,6-Trinitrotoluene	**0.34**	**J1**	0.11	0.099	0.045	ug/L		06/09/21 21:46	1
2,4,6-Trinitrotoluene	**0.22**	**J1**	0.11	0.099	0.045	ug/L		06/10/21 22:32	1
2,4-Dinitrotoluene	0.079	U	0.099	0.079	0.027	ug/L		06/09/21 21:46	1
2,6-Dinitrotoluene	0.079	U	0.099	0.079	0.040	ug/L		06/10/21 22:32	1
2-Amino-4,6-dinitrotoluene	**0.23**	**M J1**	0.11	0.099	0.050	ug/L		06/09/21 21:46	1
2-Amino-4,6-dinitrotoluene	**0.46**	**J1**	0.11	0.099	0.050	ug/L		06/10/21 22:32	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.085	ug/L		06/09/21 21:46	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.19	ug/L		06/09/21 21:46	1
4-Amino-2,6-dinitrotoluene	**0.13**	**J J1**	0.15	0.12	0.057	ug/L		06/09/21 21:46	1
4-Amino-2,6-dinitrotoluene	**0.30**	**J1**	0.15	0.12	0.057	ug/L		06/10/21 22:32	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.099	ug/L		06/10/21 22:32	1
HMX	0.20	U	0.21	0.20	0.087	ug/L		06/09/21 21:46	1
MNX	0.40	U	2.0	0.40	0.15	ug/L		06/09/21 21:46	1
Nitrobenzene	0.20	U M	0.21	0.20	0.090	ug/L		06/09/21 21:46	1
RDX	0.20	U M	0.21	0.20	0.051	ug/L		06/09/21 21:46	1
Tetryl	0.099	U M	0.11	0.099	0.032	ug/L		06/09/21 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*94*	*M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 21:46*	*1*
1,2-Dinitrobenzene	*86*		*83 - 119*	*06/08/21 18:12*	*06/10/21 22:32*	*1*

Client Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Client Sample ID: NW050R-DP06-20

Lab Sample ID: 280-149356-7

Date Collected: 06/01/21 13:20
Date Received: 06/03/21 09:45

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.20	0.20	0.082	ug/L		06/09/21 22:09	1
1,3-Dinitrobenzene	0.098	U	0.11	0.098	0.036	ug/L		06/09/21 22:09	1
2,4,6-Trinitrotoluene	0.098	U	0.11	0.098	0.044	ug/L		06/09/21 22:09	1
2,4-Dinitrotoluene	0.078	U	0.098	0.078	0.027	ug/L		06/09/21 22:09	1
2,6-Dinitrotoluene	0.078	U M	0.098	0.078	0.039	ug/L		06/09/21 22:09	1
2-Amino-4,6-dinitrotoluene	0.098	U	0.11	0.098	0.049	ug/L		06/09/21 22:09	1
2-Nitrotoluene	0.20	U	0.20	0.20	0.083	ug/L		06/09/21 22:09	1
3-Nitrotoluene	0.39	U	0.39	0.39	0.19	ug/L		06/09/21 22:09	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.056	ug/L		06/09/21 22:09	1
4-Nitrotoluene	0.39	U M	0.40	0.39	0.098	ug/L		06/09/21 22:09	1
HMX	0.20	U	0.20	0.20	0.085	ug/L		06/09/21 22:09	1
MNX	0.39	U	2.0	0.39	0.15	ug/L		06/09/21 22:09	1
Nitrobenzene	0.20	U	0.20	0.20	0.089	ug/L		06/09/21 22:09	1
RDX	0.20	U	0.20	0.20	0.050	ug/L		06/09/21 22:09	1
Tetryl	0.098	U	0.11	0.098	0.031	ug/L		06/09/21 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*86*	*M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 22:09*	*1*

Client Sample ID: NW050R-DP06-35

Lab Sample ID: 280-149356-8

Date Collected: 06/01/21 14:05
Date Received: 06/03/21 09:45

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.17**	**J M**	0.21	0.20	0.085	ug/L		06/09/21 22:32	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/09/21 22:32	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.046	ug/L		06/09/21 22:32	1
2,4-Dinitrotoluene	0.081	U	0.10	0.081	0.028	ug/L		06/09/21 22:32	1
2,6-Dinitrotoluene	0.081	U	0.10	0.081	0.041	ug/L		06/09/21 22:32	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/09/21 22:32	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.087	ug/L		06/09/21 22:32	1
3-Nitrotoluene	0.41	U	0.41	0.41	0.20	ug/L		06/09/21 22:32	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/09/21 22:32	1
4-Nitrotoluene	0.41	U	0.42	0.41	0.10	ug/L		06/09/21 22:32	1
HMX	0.20	U	0.21	0.20	0.089	ug/L		06/09/21 22:32	1
MNX	0.41	U	2.0	0.41	0.16	ug/L		06/09/21 22:32	1
Nitrobenzene	0.20	U M	0.21	0.20	0.092	ug/L		06/09/21 22:32	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/09/21 22:32	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/09/21 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*92*	*M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 22:32*	*1*
1,2-Dinitrobenzene	*87*		*83 - 119*	*06/08/21 18:12*	*06/10/21 23:07*	*1*

Client Sample ID: NW050R-DP06-60

Lab Sample ID: 280-149356-9

Date Collected: 06/01/21 15:00
Date Received: 06/03/21 09:45
Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084	ug/L		06/09/21 22:55	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/09/21 22:55	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/09/21 22:55	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/09/21 22:55	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/09/21 22:55	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.050	ug/L		06/09/21 22:55	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.085	ug/L		06/09/21 22:55	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.19	ug/L		06/09/21 22:55	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057	ug/L		06/09/21 22:55	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/09/21 22:55	1
HMX	0.20	U	0.21	0.20	0.087	ug/L		06/09/21 22:55	1
MNX	0.40	U	2.0	0.40	0.15	ug/L		06/09/21 22:55	1
Nitrobenzene	0.20	U M	0.21	0.20	0.091	ug/L		06/09/21 22:55	1
RDX	0.20	U	0.21	0.20	0.051	ug/L		06/09/21 22:55	1
Tetryl	0.10	U M	0.11	0.10	0.032	ug/L		06/09/21 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*88*	*M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 22:55*	*1*

Client Sample ID: OS501-DP06-25

Lab Sample ID: 280-149356-10

Date Collected: 06/02/21 08:00
Date Received: 06/03/21 09:45
Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.89**	**M**	0.21	0.20	0.084	ug/L		06/09/21 23:18	1
1,3-Dinitrobenzene	0.10	U M	0.11	0.10	0.037	ug/L		06/09/21 23:18	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/10/21 23:42	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/09/21 23:18	1
2-Amino-4,6-dinitrotoluene	**2.4**		0.11	0.10	0.051	ug/L		06/09/21 23:18	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.085	ug/L		06/09/21 23:18	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.19	ug/L		06/09/21 23:18	1
4-Amino-2,6-dinitrotoluene	**1.8**		0.15	0.12	0.058	ug/L		06/09/21 23:18	1
4-Nitrotoluene	0.40	U M	0.41	0.40	0.10	ug/L		06/09/21 23:18	1
HMX	0.20	U	0.21	0.20	0.087	ug/L		06/10/21 23:42	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/09/21 23:18	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/09/21 23:18	1
RDX	**0.39**	**M J1**	0.21	0.20	0.051	ug/L		06/09/21 23:18	1
RDX	**0.17**	**J M J1**	0.21	0.20	0.051	ug/L		06/10/21 23:42	1
Tetryl	0.10	U M	0.11	0.10	0.032	ug/L		06/09/21 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*93*	*M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 23:18*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,6-Trinitrotoluene	**27**	**D**	0.55	0.50	0.22	ug/L		06/10/21 16:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*94*	*D*	*83 - 119*	*06/08/21 18:12*	*06/10/21 16:47*	*5*
1,2-Dinitrobenzene	*107*	*D*	*83 - 119*	*06/08/21 18:12*	*06/11/21 00:17*	*5*

Default Detection Limits

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Prep: 3535

Analyte	LOQ	DL	Units
1,3,5-Trinitrobenzene	0.21	0.084	ug/L
1,3-Dinitrobenzene	0.11	0.037	ug/L
2,4,6-Trinitrotoluene	0.11	0.045	ug/L
2,4-Dinitrotoluene	0.10	0.027	ug/L
2,6-Dinitrotoluene	0.10	0.040	ug/L
2-Amino-4,6-dinitrotoluene	0.11	0.051	ug/L
2-Nitrotoluene	0.21	0.086	ug/L
3-Nitrotoluene	0.40	0.20	ug/L
4-Amino-2,6-dinitrotoluene	0.15	0.058	ug/L
4-Nitrotoluene	0.41	0.10	ug/L
HMX	0.21	0.088	ug/L
MNX	2.0	0.15	ug/L
Nitrobenzene	0.21	0.091	ug/L
RDX	0.21	0.052	ug/L
Tetryl	0.11	0.032	ug/L

Surrogate Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	12DNB1 (83-119)
280-149356-1	OS003-DP06-25	86
280-149356-2	OS003-DP06-35	96
280-149356-3	OS003-DP06-45	96
280-149356-3 MS	OS003-DP06-45	92 M
280-149356-3 MS	OS003-DP06-45	98
280-149356-3 MSD	OS003-DP06-45	88 M
280-149356-3 MSD	OS003-DP06-45	94
280-149356-4	OS001-DP06-25	91 M
280-149356-4 - DL	OS001-DP06-25	93 D
280-149356-5	OS001-DP06-35	79 Q M
280-149356-6	OS001-DP06-45	94 M
280-149356-7	NW050R-DP06-20	86 M
280-149356-8	NW050R-DP06-35	92 M
280-149356-9	NW050R-DP06-60	88 M
280-149356-10	OS501-DP06-25	93 M
280-149356-10 - DL	OS501-DP06-25	94 D
LCS 280-539020/2-A	Lab Control Sample	97
LCS 280-539020/3-A	Lab Control Sample	98
MB 280-539020/1-A	Method Blank	94 M

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	12DNB2 (83-119)
280-149356-4	OS001-DP06-25	99 M
280-149356-4 - DL	OS001-DP06-25	90 D
280-149356-5	OS001-DP06-35	71 M Q
280-149356-6	OS001-DP06-45	86
280-149356-8	NW050R-DP06-35	87
280-149356-10 - DL	OS501-DP06-25	107 D

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-539020/1-A
Matrix: Water
Analysis Batch: 539202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539020

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084	ug/L		06/09/21 16:24	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/09/21 16:24	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/09/21 16:24	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/09/21 16:24	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/09/21 16:24	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/09/21 16:24	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		06/09/21 16:24	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.20	ug/L		06/09/21 16:24	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/09/21 16:24	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/09/21 16:24	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		06/09/21 16:24	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/09/21 16:24	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/09/21 16:24	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/09/21 16:24	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/09/21 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*94*	*M*	*83 - 119*	*06/08/21 18:12*	*06/09/21 16:24*	*1*

Lab Sample ID: LCS 280-539020/2-A
Matrix: Water
Analysis Batch: 539202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	1.91		ug/L		96	73 - 125
1,3-Dinitrobenzene	2.00	1.87		ug/L		94	78 - 120
2,4,6-Trinitrotoluene	2.00	1.90		ug/L		95	71 - 123
2,4-Dinitrotoluene	2.00	1.78		ug/L		89	78 - 120
2,6-Dinitrotoluene	2.00	1.83		ug/L		91	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.73		ug/L		87	79 - 120
2-Nitrotoluene	2.00	1.40		ug/L		70	70 - 127
3-Nitrotoluene	2.00	1.47		ug/L		73	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.69		ug/L		84	76 - 125
4-Nitrotoluene	2.00	1.44		ug/L		72	71 - 127
HMX	2.00	1.82	M	ug/L		91	65 - 135
Nitrobenzene	2.00	1.60		ug/L		80	65 - 134
RDX	2.00	1.81		ug/L		90	68 - 130
Tetryl	2.00	1.83		ug/L		91	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*97*		*83 - 119*

Lab Sample ID: LCS 280-539020/3-A
Matrix: Water
Analysis Batch: 539202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	2.33	2.22	M	ug/L		95	57 - 132

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	98		83 - 119

Lab Sample ID: 280-149356-3 MS — **Client Sample ID: OS003-DP06-45**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539202 — **Prep Batch: 539020**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	0.20	U	2.05	1.86	M	ug/L		91	73 - 125
1,3-Dinitrobenzene	0.10	U	2.05	1.86		ug/L		91	78 - 120
2,4,6-Trinitrotoluene	0.10	U	2.05	1.85		ug/L		90	71 - 123
2,4-Dinitrotoluene	0.080	U J1	2.05	1.68		ug/L		82	78 - 120
2,6-Dinitrotoluene	0.080	U	2.05	1.72		ug/L		84	77 - 127
2-Amino-4,6-dinitrotoluene	0.10	U J1	2.05	1.61		ug/L		79	79 - 120
2-Nitrotoluene	0.20	U J1	2.05	1.33	J1	ug/L		65	70 - 127
3-Nitrotoluene	0.40	U J1	2.05	1.30	J1	ug/L		63	73 - 125
4-Amino-2,6-dinitrotoluene	0.12	U J1	2.05	1.45	J1	ug/L		71	76 - 125
4-Nitrotoluene	0.40	U J1	2.05	1.38	J1	ug/L		67	71 - 127
HMX	0.20	U	2.05	1.89	M	ug/L		92	65 - 135
Nitrobenzene	0.20	U	2.05	1.53		ug/L		75	65 - 134
RDX	0.20	U	2.05	1.75	M	ug/L		86	68 - 130
Tetryl	0.10	U	2.05	1.89		ug/L		92	64 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dinitrobenzene	92	M	83 - 119

Lab Sample ID: 280-149356-3 MS — **Client Sample ID: OS003-DP06-45**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539202 — **Prep Batch: 539020**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	0.40	U	2.32	2.11	M	ug/L		91	57 - 132

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dinitrobenzene	98		83 - 119

Lab Sample ID: 280-149356-3 MSD — **Client Sample ID: OS003-DP06-45**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539202 — **Prep Batch: 539020**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.20	U	2.01	1.78	M	ug/L		89	73 - 125	4	30
1,3-Dinitrobenzene	0.10	U	2.01	1.74		ug/L		87	78 - 120	7	30
2,4,6-Trinitrotoluene	0.10	U	2.01	1.74		ug/L		87	71 - 123	6	30
2,4-Dinitrotoluene	0.080	U J1	2.01	1.55	J1	ug/L		77	78 - 120	8	30
2,6-Dinitrotoluene	0.080	U	2.01	1.61		ug/L		80	77 - 127	7	30
2-Amino-4,6-dinitrotoluene	0.10	U J1	2.01	1.49	J1	ug/L		74	79 - 120	8	30
2-Nitrotoluene	0.20	U J1	2.01	1.18	J1	ug/L		58	70 - 127	13	30
3-Nitrotoluene	0.40	U J1	2.01	1.13	J1	ug/L		56	73 - 125	14	30
4-Amino-2,6-dinitrotoluene	0.12	U J1	2.01	1.33	J1	ug/L		66	76 - 125	9	30
4-Nitrotoluene	0.40	U J1	2.01	1.20	M J1	ug/L		59	71 - 127	14	30
HMX	0.20	U	2.01	1.83	M	ug/L		91	65 - 135	3	30

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 280-149356-3 MSD — **Client Sample ID: OS003-DP06-45**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539202 — **Prep Batch: 539020**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene	0.20	U	2.01	1.39		ug/L		69	65 - 134	9	30
RDX	0.20	U	2.01	1.70	M	ug/L		84	68 - 130	3	30
Tetryl	0.10	U	2.01	1.79		ug/L		89	64 - 128	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*88*	*M*	*83 - 119*

Lab Sample ID: 280-149356-3 MSD — **Client Sample ID: OS003-DP06-45**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539202 — **Prep Batch: 539020**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MNX	0.40	U	2.29	2.04	M	ug/L		89	57 - 132	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*94*		*83 - 119*

HPLC/IC

Prep Batch: 539020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149356-1	OS003-DP06-25	Total/NA	Water	3535	
280-149356-2	OS003-DP06-35	Total/NA	Water	3535	
280-149356-3	OS003-DP06-45	Total/NA	Water	3535	
280-149356-4	OS001-DP06-25	Total/NA	Water	3535	
280-149356-4 - DL	OS001-DP06-25	Total/NA	Water	3535	
280-149356-5	OS001-DP06-35	Total/NA	Water	3535	
280-149356-6	OS001-DP06-45	Total/NA	Water	3535	
280-149356-7	NW050R-DP06-20	Total/NA	Water	3535	
280-149356-8	NW050R-DP06-35	Total/NA	Water	3535	
280-149356-9	NW050R-DP06-60	Total/NA	Water	3535	
280-149356-10 - DL	OS501-DP06-25	Total/NA	Water	3535	
280-149356-10	OS501-DP06-25	Total/NA	Water	3535	
MB 280-539020/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-539020/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-539020/3-A	Lab Control Sample	Total/NA	Water	3535	
280-149356-3 MS	OS003-DP06-45	Total/NA	Water	3535	
280-149356-3 MS	OS003-DP06-45	Total/NA	Water	3535	
280-149356-3 MSD	OS003-DP06-45	Total/NA	Water	3535	
280-149356-3 MSD	OS003-DP06-45	Total/NA	Water	3535	

Analysis Batch: 539202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149356-1	OS003-DP06-25	Total/NA	Water	8330A	539020
280-149356-2	OS003-DP06-35	Total/NA	Water	8330A	539020
280-149356-3	OS003-DP06-45	Total/NA	Water	8330A	539020
280-149356-4	OS001-DP06-25	Total/NA	Water	8330A	539020
280-149356-5	OS001-DP06-35	Total/NA	Water	8330A	539020
280-149356-6	OS001-DP06-45	Total/NA	Water	8330A	539020
280-149356-7	NW050R-DP06-20	Total/NA	Water	8330A	539020
280-149356-8	NW050R-DP06-35	Total/NA	Water	8330A	539020
280-149356-9	NW050R-DP06-60	Total/NA	Water	8330A	539020
280-149356-10	OS501-DP06-25	Total/NA	Water	8330A	539020
MB 280-539020/1-A	Method Blank	Total/NA	Water	8330A	539020
LCS 280-539020/2-A	Lab Control Sample	Total/NA	Water	8330A	539020
LCS 280-539020/3-A	Lab Control Sample	Total/NA	Water	8330A	539020
280-149356-3 MS	OS003-DP06-45	Total/NA	Water	8330A	539020
280-149356-3 MS	OS003-DP06-45	Total/NA	Water	8330A	539020
280-149356-3 MSD	OS003-DP06-45	Total/NA	Water	8330A	539020
280-149356-3 MSD	OS003-DP06-45	Total/NA	Water	8330A	539020

Analysis Batch: 539383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149356-4 - DL	OS001-DP06-25	Total/NA	Water	8330A	539020
280-149356-10 - DL	OS501-DP06-25	Total/NA	Water	8330A	539020

Analysis Batch: 539386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149356-4	OS001-DP06-25	Total/NA	Water	8330A	539020
280-149356-4 - DL	OS001-DP06-25	Total/NA	Water	8330A	539020
280-149356-5	OS001-DP06-35	Total/NA	Water	8330A	539020
280-149356-6	OS001-DP06-45	Total/NA	Water	8330A	539020

HPLC/IC (Continued)

Analysis Batch: 539386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149356-8	NW050R-DP06-35	Total/NA	Water	8330A	539020
280-149356-10	OS501-DP06-25	Total/NA	Water	8330A	539020
280-149356-10 - DL	OS501-DP06-25	Total/NA	Water	8330A	539020

Lab Chronicle

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Client Sample ID: OS003-DP06-25
Lab Sample ID: 280-149356-1

Date Collected: 06/02/21 08:30
Date Received: 06/03/21 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			506.8 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 17:33	JZ	TAL DEN

Client Sample ID: OS003-DP06-35
Lab Sample ID: 280-149356-2

Date Collected: 06/02/21 09:55
Date Received: 06/03/21 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			489.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 17:56	JZ	TAL DEN

Client Sample ID: OS003-DP06-45
Lab Sample ID: 280-149356-3

Date Collected: 06/02/21 10:40
Date Received: 06/03/21 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			500.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 18:19	JZ	TAL DEN

Client Sample ID: OS001-DP06-25
Lab Sample ID: 280-149356-4

Date Collected: 06/02/21 11:45
Date Received: 06/03/21 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			504.1 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 21:00	JZ	TAL DEN
Total/NA	Prep	3535	DL		504.1 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	5			539383	06/10/21 16:24	JZ	TAL DEN
Total/NA	Prep	3535			504.1 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539386	06/10/21 20:47	JZ	TAL DEN
Total/NA	Prep	3535	DL		504.1 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	5			539386	06/10/21 21:22	JZ	TAL DEN

Client Sample ID: OS001-DP06-35
Lab Sample ID: 280-149356-5

Date Collected: 06/02/21 12:20
Date Received: 06/03/21 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			508 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 21:23	JZ	TAL DEN
Total/NA	Prep	3535			508 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539386	06/10/21 21:57	JZ	TAL DEN

Lab Chronicle

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Client Sample ID: OS001-DP06-45

Lab Sample ID: 280-149356-6

Date Collected: 06/02/21 13:05
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			503.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 21:46	JZ	TAL DEN
Total/NA	Prep	3535			503.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539386	06/10/21 22:32	JZ	TAL DEN

Client Sample ID: NW050R-DP06-20

Lab Sample ID: 280-149356-7

Date Collected: 06/01/21 13:20
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			512.8 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 22:09	JZ	TAL DEN

Client Sample ID: NW050R-DP06-35

Lab Sample ID: 280-149356-8

Date Collected: 06/01/21 14:05
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			493.7 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 22:32	JZ	TAL DEN
Total/NA	Prep	3535			493.7 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539386	06/10/21 23:07	JZ	TAL DEN

Client Sample ID: NW050R-DP06-60

Lab Sample ID: 280-149356-9

Date Collected: 06/01/21 15:00
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			502.5 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 22:55	JZ	TAL DEN

Client Sample ID: OS501-DP06-25

Lab Sample ID: 280-149356-10

Date Collected: 06/02/21 08:00
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			501.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539202	06/09/21 23:18	JZ	TAL DEN
Total/NA	Prep	3535	DL		501.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	5			539383	06/10/21 16:47	JZ	TAL DEN
Total/NA	Prep	3535			501.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A		1			539386	06/10/21 23:42	JZ	TAL DEN
Total/NA	Prep	3535	DL		501.6 mL	5 mL	539020	06/08/21 18:12	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	5			539386	06/11/21 00:17	JZ	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21

Method Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Method	Method Description	Protocol	Laboratory
8330A	Nitroaromatics and Nitramines (HPLC)	EPA	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-149356-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-149356-1	OS003-DP06-25	Water	06/02/21 08:30	06/03/21 09:45	
280-149356-2	OS003-DP06-35	Water	06/02/21 09:55	06/03/21 09:45	
280-149356-3	OS003-DP06-45	Water	06/02/21 10:40	06/03/21 09:45	
280-149356-4	OS001-DP06-25	Water	06/02/21 11:45	06/03/21 09:45	
280-149356-5	OS001-DP06-35	Water	06/02/21 12:20	06/03/21 09:45	
280-149356-6	OS001-DP06-45	Water	06/02/21 13:05	06/03/21 09:45	
280-149356-7	NW050R-DP06-20	Water	06/01/21 13:20	06/03/21 09:45	
280-149356-8	NW050R-DP06-35	Water	06/01/21 14:05	06/03/21 09:45	
280-149356-9	NW050R-DP06-60	Water	06/01/21 15:00	06/03/21 09:45	
280-149356-10	OS501-DP06-25	Water	06/02/21 08:00	06/03/21 09:45	

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 527768

Lab Sample ID: IC 280-527768/29 Client Sample ID:

Date Analyzed: 03/02/21 23:49 Lab File ID: 03020029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:18
DNX	6.83	Baseline	zhangji	03/03/21 13:18
MNX	7.24	Baseline	zhangji	03/03/21 13:18

Lab Sample ID: IC 280-527768/30 Client Sample ID:

Date Analyzed: 03/03/21 00:12 Lab File ID: 03020030.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:19
DNX	6.84	Baseline	zhangji	03/03/21 13:19
MNX	7.24	Baseline	zhangji	03/03/21 13:19

Lab Sample ID: IC 280-527768/31 Client Sample ID:

Date Analyzed: 03/03/21 00:35 Lab File ID: 03020031.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:19
DNX	6.83	Baseline	zhangji	03/03/21 13:19
MNX	7.24	Baseline	zhangji	03/03/21 13:19

Lab Sample ID: IC 280-527768/32 Client Sample ID:

Date Analyzed: 03/03/21 00:58 Lab File ID: 03020032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:19
DNX	6.83	Baseline	zhangji	03/03/21 13:19

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 527768

Lab Sample ID: IC 280-527768/33 Client Sample ID:

Date Analyzed: 03/03/21 01:21 Lab File ID: 03020033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:20
DNX	6.83	Baseline	zhangji	03/03/21 13:20

Lab Sample ID: IC 280-527768/34 Client Sample ID:

Date Analyzed: 03/03/21 01:44 Lab File ID: 03020034.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:20
DNX	6.83	Baseline	zhangji	03/03/21 13:20

Lab Sample ID: IC 280-527768/35 Client Sample ID:

Date Analyzed: 03/03/21 02:07 Lab File ID: 03020035.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:20
DNX	6.83	Baseline	zhangji	03/03/21 13:20

Lab Sample ID: IC 280-527768/36 Client Sample ID:

Date Analyzed: 03/03/21 02:30 Lab File ID: 03020036.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:20
DNX	6.83	Baseline	zhangji	03/03/21 13:20

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 527768

Lab Sample ID: ICV 280-527768/37 Client Sample ID:

Date Analyzed: 03/03/21 02:53 Lab File ID: 03020037.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.52	Baseline	zhangji	03/03/21 13:21
DNX	6.83	Baseline	zhangji	03/03/21 13:21
MNX	7.24	Baseline	zhangji	03/03/21 13:21

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 534622

Lab Sample ID: IC 280-534622/11 Client Sample ID:

Date Analyzed: 05/01/21 18:01 Lab File ID: 011-0501.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:15

Lab Sample ID: IC 280-534622/12 Client Sample ID:

Date Analyzed: 05/01/21 18:23 Lab File ID: 012-0601.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:15

Lab Sample ID: IC 280-534622/13 Client Sample ID:

Date Analyzed: 05/01/21 18:46 Lab File ID: 013-0701.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:16

Lab Sample ID: IC 280-534622/14 Client Sample ID:

Date Analyzed: 05/01/21 19:09 Lab File ID: 014-0801.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:16

Lab Sample ID: IC 280-534622/15 Client Sample ID:

Date Analyzed: 05/01/21 19:32 Lab File ID: 015-0901.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:16

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 534622

Lab Sample ID: IC 280-534622/16 Client Sample ID:

Date Analyzed: 05/01/21 19:55 Lab File ID: 016-1001.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:16

Lab Sample ID: IC 280-534622/17 Client Sample ID:

Date Analyzed: 05/01/21 20:18 Lab File ID: 017-1101.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:16

Lab Sample ID: IC 280-534622/18 Client Sample ID:

Date Analyzed: 05/01/21 20:41 Lab File ID: 018-1201.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:16
RDX	7.61	Baseline	zhangji	05/04/21 13:18
Tetryl	9.98	Baseline	zhangji	05/04/21 13:23
PETN	14.68	Baseline	zhangji	05/04/21 13:18

Lab Sample ID: IC 280-534622/19 Client Sample ID:

Date Analyzed: 05/01/21 21:04 Lab File ID: 019-1301.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:17
Tetryl	9.98	Baseline	zhangji	05/04/21 13:23
Nitroglycerin	10.44	Baseline	zhangji	05/04/21 13:18
PETN	14.68	Baseline	zhangji	05/04/21 13:17

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 534622

Lab Sample ID: ICV 280-534622/20 Client Sample ID:

Date Analyzed: 05/01/21 21:27 Lab File ID: 020-1401.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.63	Baseline	zhangji	05/04/21 13:24

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539202

Lab Sample ID: CCV 280-539202/7 Client Sample ID:

Date Analyzed: 06/09/21 15:38 Lab File ID: 06090007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/09/21 16:38

Lab Sample ID: CCV 280-539202/9 Client Sample ID:

Date Analyzed: 06/09/21 16:01 Lab File ID: 06090009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.49	Baseline	zhangji	06/09/21 16:38
DNX	6.81	Baseline	zhangji	06/09/21 16:38

Lab Sample ID: MB 280-539020/1-A Client Sample ID:

Date Analyzed: 06/09/21 16:24 Lab File ID: 06090011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.22	Baseline	zhangji	06/09/21 16:54
1,2-Dinitrobenzene	8.51	Baseline	zhangji	06/09/21 16:54

Lab Sample ID: LCS 280-539020/2-A Client Sample ID:

Date Analyzed: 06/09/21 16:47 Lab File ID: 06090012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/09/21 17:20

Lab Sample ID: LCS 280-539020/3-A Client Sample ID:

Date Analyzed: 06/09/21 17:10 Lab File ID: 06090013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.22	Baseline	zhangji	06/09/21 18:26

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539202

Lab Sample ID: 280-149356-1 Client Sample ID: OS003-DP06-25

Date Analyzed: 06/09/21 17:33 Lab File ID: 06090014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene		Invalid Compound ID	zhangji	06/09/21 18:26
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/09/21 18:26
MNX		Invalid Compound ID	zhangji	06/09/21 18:26
Tetryl		Invalid Compound ID	zhangji	06/09/21 18:26

Lab Sample ID: 280-149356-2 Client Sample ID: OS003-DP06-35

Date Analyzed: 06/09/21 17:56 Lab File ID: 06090015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX		Invalid Compound ID	zhangji	06/09/21 18:26
Tetryl		Invalid Compound ID	zhangji	06/09/21 18:26

Lab Sample ID: 280-149356-3 MS Client Sample ID: OS003-DP06-45 MS

Date Analyzed: 06/09/21 18:42 Lab File ID: 06090017.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/09/21 19:09
RDX	7.58	Baseline	zhangji	06/09/21 19:09
1,2-Dinitrobenzene	8.50	Baseline	zhangji	06/09/21 19:10
1,3,5-Trinitrobenzene	8.64	Baseline	zhangji	06/09/21 19:10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539202

Lab Sample ID: 280-149356-3 MSD Client Sample ID: OS003-DP06-45 MSD

Date Analyzed: 06/09/21 19:05 Lab File ID: 06090018.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/09/21 19:31
RDX	7.58	Baseline	zhangji	06/09/21 19:31
1,2-Dinitrobenzene	8.50	Baseline	zhangji	06/09/21 19:31
1,3,5-Trinitrobenzene	8.63	Baseline	zhangji	06/09/21 19:31
4-Nitrotoluene	13.00	Baseline	zhangji	06/09/21 19:31

Lab Sample ID: 280-149356-3 MS Client Sample ID: OS003-DP06-45 MS

Date Analyzed: 06/09/21 19:28 Lab File ID: 06090019.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.21	Baseline	zhangji	06/09/21 20:42

Lab Sample ID: 280-149356-3 MSD Client Sample ID: OS003-DP06-45 MSD

Date Analyzed: 06/09/21 19:51 Lab File ID: 06090020.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.22	Baseline	zhangji	06/09/21 20:42

Lab Sample ID: CCV 280-539202/21 Client Sample ID:

Date Analyzed: 06/09/21 20:14 Lab File ID: 06090021.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/09/21 20:42

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539202

Lab Sample ID: CCV 280-539202/22 Client Sample ID:

Date Analyzed: 06/09/21 20:37 Lab File ID: 06090022.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.50	Baseline	zhangji	06/09/21 21:02
DNX	6.81	Baseline	zhangji	06/09/21 21:02

Lab Sample ID: 280-149356-4 Client Sample ID: OS001-DP06-25

Date Analyzed: 06/09/21 21:00 Lab File ID: 06090023.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.60	Baseline	zhangji	06/10/21 12:53
RDX	7.58	Baseline	zhangji	06/10/21 12:53
1,2-Dinitrobenzene	8.50	Baseline	zhangji	06/10/21 12:53
1,3,5-Trinitrobenzene	8.64	Baseline	zhangji	06/10/21 12:53
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/10/21 12:54
4-Nitrotoluene		Invalid Compound ID	zhangji	06/10/21 12:54
MNX		Invalid Compound ID	zhangji	06/10/21 12:53
Tetryl		Invalid Compound ID	zhangji	06/10/21 12:54
2,4-Dinitrotoluene	11.69	Baseline	zhangji	06/10/21 12:54

Lab Sample ID: 280-149356-5 Client Sample ID: OS001-DP06-35

Date Analyzed: 06/09/21 21:23 Lab File ID: 06090024.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.51	Baseline	zhangji	06/10/21 12:54
1,3,5-Trinitrobenzene	8.64	Baseline	zhangji	06/10/21 12:54
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/10/21 12:54
4-Nitrotoluene		Invalid Compound ID	zhangji	06/10/21 12:55
Nitrobenzene		Invalid Compound ID	zhangji	06/10/21 12:54
RDX		Invalid Compound ID	zhangji	06/10/21 12:54
Tetryl		Invalid Compound ID	zhangji	06/10/21 12:54

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539202

Lab Sample ID: 280-149356-6 Client Sample ID: OS001-DP06-45

Date Analyzed: 06/09/21 21:46 Lab File ID: 06090025.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.51	Baseline	zhangji	06/10/21 12:55
1,3,5-Trinitrobenzene	8.64	Baseline	zhangji	06/10/21 12:55
Nitrobenzene		Invalid Compound ID	zhangji	06/10/21 12:55
RDX		Invalid Compound ID	zhangji	06/10/21 12:55
Tetryl		Invalid Compound ID	zhangji	06/10/21 12:55
2-Amino-4,6-dinitrotoluene	11.36	Baseline	zhangji	06/10/21 12:55
2,6-Dinitrotoluene	11.51	Baseline	zhangji	06/10/21 12:55

Lab Sample ID: 280-149356-7 Client Sample ID: NW050R-DP06-20

Date Analyzed: 06/09/21 22:09 Lab File ID: 06090026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.50	Baseline	zhangji	06/10/21 12:56
2,6-Dinitrotoluene		Invalid Compound ID	zhangji	06/10/21 12:55
4-Nitrotoluene		Invalid Compound ID	zhangji	06/10/21 12:56

Lab Sample ID: 280-149356-8 Client Sample ID: NW050R-DP06-35

Date Analyzed: 06/09/21 22:32 Lab File ID: 06090027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.51	Baseline	zhangji	06/10/21 12:56
1,3,5-Trinitrobenzene	8.67	Baseline	zhangji	06/10/21 12:56
Nitrobenzene		Invalid Compound ID	zhangji	06/10/21 12:56

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539202

Lab Sample ID: 280-149356-9 Client Sample ID: NW050R-DP06-60

Date Analyzed: 06/09/21 22:55 Lab File ID: 06090028.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.51	Baseline	zhangji	06/10/21 12:56
Nitrobenzene		Invalid Compound ID	zhangji	06/10/21 12:56
Tetryl		Invalid Compound ID	zhangji	06/10/21 12:56

Lab Sample ID: 280-149356-10 Client Sample ID: OS501-DP06-25

Date Analyzed: 06/09/21 23:18 Lab File ID: 06090029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.60	Baseline	zhangji	06/10/21 13:00
RDX	7.57	Baseline	zhangji	06/10/21 13:00
1,2-Dinitrobenzene	8.50	Baseline	zhangji	06/10/21 13:00
1,3,5-Trinitrobenzene	8.63	Baseline	zhangji	06/10/21 13:00
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/10/21 13:00
4-Nitrotoluene		Invalid Compound ID	zhangji	06/10/21 13:00
MNX		Invalid Compound ID	zhangji	06/10/21 13:00
Tetryl		Invalid Compound ID	zhangji	06/10/21 13:00

Lab Sample ID: CCV 280-539202/33 Client Sample ID:

Date Analyzed: 06/10/21 00:50 Lab File ID: 06090033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/10/21 13:03

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539202

Lab Sample ID: CCV 280-539202/34 Client Sample ID:

Date Analyzed: 06/10/21 01:13 Lab File ID: 06090034.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.50	Baseline	zhangji	06/10/21 13:03
DNX	6.80	Baseline	zhangji	06/10/21 13:03

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 539383

Lab Sample ID: CCV 280-539383/7 Client Sample ID:

Date Analyzed: 06/10/21 16:01 Lab File ID: 06100007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/10/21 16:31

Lab Sample ID: 280-149356-4 DL Client Sample ID: OS001-DP06-25 DL

Date Analyzed: 06/10/21 16:24 Lab File ID: 06100011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX		Invalid Compound ID	zhangji	06/10/21 16:54
MNX		Invalid Compound ID	zhangji	06/10/21 16:54
Tetryl		Invalid Compound ID	zhangji	06/10/21 16:54

Lab Sample ID: 280-149356-10 DL Client Sample ID: OS501-DP06-25 DL

Date Analyzed: 06/10/21 16:47 Lab File ID: 06100012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX		Invalid Compound ID	zhangji	06/10/21 17:20
MNX		Invalid Compound ID	zhangji	06/10/21 17:20
RDX		Invalid Compound ID	zhangji	06/10/21 17:20
Tetryl		Invalid Compound ID	zhangji	06/10/21 17:20

Lab Sample ID: CCV 280-539383/13 Client Sample ID:

Date Analyzed: 06/10/21 17:10 Lab File ID: 06100013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	zhangji	06/10/21 18:22

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 534620

Lab Sample ID: IC 280-534620/10 Client Sample ID:

Date Analyzed: 05/01/21 18:54 Lab File ID: 010-0501.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.16	Baseline Smoothing	zhangji	05/04/21 13:40

Lab Sample ID: IC 280-534620/11 Client Sample ID:

Date Analyzed: 05/01/21 19:29 Lab File ID: 011-0601.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.14	Baseline Smoothing	zhangji	05/04/21 13:40

Lab Sample ID: IC 280-534620/12 Client Sample ID:

Date Analyzed: 05/01/21 20:04 Lab File ID: 012-0701.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.18	Baseline Smoothing	zhangji	05/04/21 13:40

Lab Sample ID: IC 280-534620/13 Client Sample ID:

Date Analyzed: 05/01/21 20:39 Lab File ID: 013-0801.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.15	Baseline Smoothing	zhangji	05/04/21 13:40

Lab Sample ID: IC 280-534620/14 Client Sample ID:

Date Analyzed: 05/01/21 21:15 Lab File ID: 014-0901.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.19	Baseline Smoothing	zhangji	05/04/21 13:40

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 534620

Lab Sample ID: IC 280-534620/15 Client Sample ID:

Date Analyzed: 05/01/21 21:50 Lab File ID: 015-1001.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.17	Baseline Smoothing	zhangji	05/04/21 13:40

Lab Sample ID: IC 280-534620/16 Client Sample ID:

Date Analyzed: 05/01/21 22:25 Lab File ID: 016-1101.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.15	Baseline Smoothing	zhangji	05/04/21 13:40

Lab Sample ID: IC 280-534620/17 Client Sample ID:

Date Analyzed: 05/01/21 23:00 Lab File ID: 017-1201.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.18	Baseline Smoothing	zhangji	05/04/21 13:41

Lab Sample ID: IC 280-534620/18 Client Sample ID:

Date Analyzed: 05/01/21 23:35 Lab File ID: 018-1301.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.15	Baseline Smoothing	zhangji	05/04/21 13:41

Lab Sample ID: ICV 280-534620/19 Client Sample ID:

Date Analyzed: 05/02/21 00:10 Lab File ID: 019-1401.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	26.19	Baseline Smoothing	zhangji	05/04/21 13:43

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 539386

Lab Sample ID: 280-149356-4 Client Sample ID: OS001-DP06-25

Date Analyzed: 06/10/21 20:47 Lab File ID: 06100014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.44	Baseline Smoothing	zhangji	06/11/21 12:35
RDX	8.79	Baseline Smoothing	zhangji	06/11/21 12:35
2-Nitrotoluene		Invalid Compound ID	zhangji	06/11/21 12:35
1,2-Dinitrobenzene	12.92	Baseline Smoothing	zhangji	06/11/21 12:35

Lab Sample ID: 280-149356-5 Client Sample ID: OS001-DP06-35

Date Analyzed: 06/10/21 21:57 Lab File ID: 06100016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline Smoothing	zhangji	06/11/21 12:36
RDX	8.77	Baseline Smoothing	zhangji	06/11/21 12:36
2-Nitrotoluene		Invalid Compound ID	zhangji	06/11/21 12:36
MNX		Invalid Compound ID	zhangji	06/11/21 12:36
1,2-Dinitrobenzene	12.93	Baseline Smoothing	zhangji	06/11/21 12:36

Lab Sample ID: 280-149356-6 Client Sample ID: OS001-DP06-45

Date Analyzed: 06/10/21 22:32 Lab File ID: 06100017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.59	Baseline Smoothing	zhangji	06/11/21 12:36

Lab Sample ID: 280-149356-8 Client Sample ID: NW050R-DP06-35

Date Analyzed: 06/10/21 23:07 Lab File ID: 06100018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.60	Baseline Smoothing	zhangji	06/11/21 12:37
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	06/11/21 12:37

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 539386

Lab Sample ID: 280-149356-10 Client Sample ID: OS501-DP06-25

Date Analyzed: 06/10/21 23:42 Lab File ID: 06100019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.38	Baseline Smoothing	zhangji	06/11/21 12:37
RDX	8.76	Baseline Smoothing	zhangji	06/11/21 12:37
2-Nitrotoluene		Invalid Compound ID	zhangji	06/11/21 12:37
4-Nitrotoluene		Invalid Compound ID	zhangji	06/11/21 12:37

Lab Sample ID: CCV 280-539386/21 Client Sample ID:

Date Analyzed: 06/11/21 00:52 Lab File ID: 06100021.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	7.83	Peak assignment corrected	zhangji	06/11/21 12:38

8330A

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8330 DMT_00008	05/31/21	01/08/21	Acetonitrile, Lot 257727	5 mL	MNX,TNX,DNX_00051	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.02 ug/mL
.MNX,TNX,DNX_00051	05/31/21		Agilent, Lot 0006535619		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330 DMT_00009	12/02/21	06/02/21	Acetonitrile, Lot ACN 237	5 mL	MNX,TNX,DNX_00059	1 mL	MNX	23.34 ug/mL
.MNX,TNX,DNX_00059	04/30/22		Agilent, Lot 0006599273		(Purchased Reagent)		MNX	116.7 ug/mL
8330 LCS_00108	09/02/21	03/31/21	Acetonitrile, Lot Acetonitrile_00050	100 mL	8330_NG_Stk_00101	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_Stk_00102	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00104	1 mL	PETN	100 ug/mL
					8330_PETN_Stk_00105	1 mL	PETN	100 ug/mL
					8330LCSMix1_00121	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					8330LCSmix2_00023	1 mL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					PicricARestek_00097	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00101	05/31/23		Restek, Lot A0161120		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_NG_Stk_00102	05/31/23		Restek, Lot A0161120		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00104	12/31/23		Restek, Lot A0167376		(Purchased Reagent)		PETN	5000 ug/mL
.8330_PETN_Stk_00105	12/31/23		Restek, Lot A0167376		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00121	08/31/25		Restek, Lot A0163590		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.8330LCSmix2_00023	11/30/25		Restek, Lot A0165983		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	1000 ug/mL
.PicricARestek_00097	09/30/25		Restek, Lot A0164473		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8330_OP_DMT_00009	05/31/21	08/14/20	Acetonitrile, Lot Acetonitrile_00045	25 mL	MNX,TNX,DNX_00048	1 mL	MNX	11.67 ug/mL
					MNX,TNX,DNX_00049	0.5 mL	MNX	11.67 ug/mL
					MNX,TNX,DNX_00050	1 mL	MNX	11.67 ug/mL
.MNX,TNX,DNX_00048	05/31/21		Agilent, Lot 0006535619		(Purchased Reagent)		MNX	116.7 ug/mL
.MNX,TNX,DNX_00049	05/31/21		Agilent, Lot 0006535619		(Purchased Reagent)		MNX	116.7 ug/mL
.MNX,TNX,DNX_00050	05/31/21		Agilent, Lot 0006535619		(Purchased Reagent)		MNX	116.7 ug/mL
8330_OP_DMT_00011	04/30/22	06/01/21	Acetonitrile, Lot Acetonitrile_00054	10 mL	MNX,TNX,DNX_00054	1 mL	DNX	10.01 ug/mL
							MNX	11.67 ug/mL
							TNX	10.01 ug/mL
.MNX,TNX,DNX_00054	04/30/22		Agilent, Lot 0006594482		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330IntermStk_00067	05/22/21	11/18/20	Acetonitrile, Lot 130057	10 mL	8330_NG_Stk_00094	200 uL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00087	200 uL	PETN	100 ug/mL
					8330ICALStock_00030	1 mL	1,3,5-Trinitrobenzene	10.02 ug/mL
							1,3-Dinitrobenzene	10.02 ug/mL
							2,4,6-Trinitrotoluene	10.04 ug/mL
							2,4-Dinitrotoluene	10.04 ug/mL
							2,6-Dinitrotoluene	10.04 ug/mL
							2-Amino-4,6-dinitrotoluene	10.04 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10.01 ug/mL
							4-Amino-2,6-dinitrotoluene	10.01 ug/mL
							4-Nitrotoluene	10.02 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10.04 ug/mL
							RDX	10 ug/mL
							Tetryl	10.02 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
					8330PAStkPS_00064	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00094	06/30/23		Restek, Lot A0161480		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00087	11/30/22		Restek, Lot A0154763		(Purchased Reagent)		PETN	5000 ug/mL
.8330ICALStock_00030	03/03/22	01/09/20	Acetonitrile, Lot 130057	10 mL	8330 Stock_TS_00015	1 mL	1,3,5-Trinitrobenzene	100.2 ug/mL
							1,3-Dinitrobenzene	100.2 ug/mL
							2,4,6-Trinitrotoluene	100.4 ug/mL
							2,4-Dinitrotoluene	100.4 ug/mL
							2,6-Dinitrotoluene	100.4 ug/mL
							2-Amino-4,6-dinitrotoluene	100.4 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100.1 ug/mL
							4-Amino-2,6-dinitrotoluene	100.1 ug/mL

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	100.2 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100.4 ug/mL
							RDX	100 ug/mL
							Tetryl	100.2 ug/mL
					8330SurrStock_00164	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00015	03/31/22	Ultra Scientific, Lot CT-0801			(Purchased Reagent)		1,3,5-Trinitrobenzene	1002 ug/mL
							1,3-Dinitrobenzene	1002 ug/mL
							2,4,6-Trinitrotoluene	1004 ug/mL
							2,4-Dinitrotoluene	1004 ug/mL
							2,6-Dinitrotoluene	1004 ug/mL
							2-Amino-4,6-dinitrotoluene	1004 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1001 ug/mL
							4-Amino-2,6-dinitrotoluene	1001 ug/mL
							4-Nitrotoluene	1002 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1004 ug/mL
							RDX	1000 ug/mL
							Tetryl	1002 ug/mL
..8330SurrStock_00164	07/01/26	AccuStandard, Lot 216071012			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PAStkPS_00064	05/22/21	AccuStandard, Lot 214121302-02			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330IntermStk_00068	10/30/21	04/30/21	Acetonitrile, Lot ACN_237	10 mL	8330ICALStock_00031	1 mL	1,3,5-Trinitrobenzene	10.02 ug/mL
							1,3-Dinitrobenzene	10.02 ug/mL
							2,4,6-Trinitrotoluene	10.04 ug/mL
							2,4-Dinitrotoluene	10.04 ug/mL
							2,6-Dinitrotoluene	10.04 ug/mL
							2-Amino-4,6-dinitrotoluene	10.04 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10.01 ug/mL
							4-Amino-2,6-dinitrotoluene	10.01 ug/mL
							4-Nitrotoluene	10.02 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10.04 ug/mL
							RDX	10 ug/mL
							Tetryl	10.02 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
.8330ICALStock_00031	03/31/22	04/30/21	Acetonitrile, Lot ACN_237	10 mL	8330 Stock_TS_00018	1 mL	1,3,5-Trinitrobenzene	100.2 ug/mL
							1,3-Dinitrobenzene	100.2 ug/mL
							2,4,6-Trinitrotoluene	100.4 ug/mL
							2,4-Dinitrotoluene	100.4 ug/mL
							2,6-Dinitrotoluene	100.4 ug/mL
							2-Amino-4,6-dinitrotoluene	100.4 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100.1 ug/mL
							4-Amino-2,6-dinitrotoluene	100.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	100.2 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100.4 ug/mL
							RDX	100 ug/mL
							Tetryl	100.2 ug/mL
					8330SurrStock_00168	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00018	03/31/22	Ultra Scientific, Lot CT-0801			(Purchased Reagent)		1,3,5-Trinitrobenzene	1002 ug/mL
							1,3-Dinitrobenzene	1002 ug/mL
							2,4,6-Trinitrotoluene	1004 ug/mL
							2,4-Dinitrotoluene	1004 ug/mL
							2,6-Dinitrotoluene	1004 ug/mL
							2-Amino-4,6-dinitrotoluene	1004 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1001 ug/mL
							4-Amino-2,6-dinitrotoluene	1001 ug/mL
							4-Nitrotoluene	1002 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1004 ug/mL
							RDX	1000 ug/mL
							Tetryl	1002 ug/mL
..8330SurrStock_00168	04/30/22	AccuStandard, Lot 219051500			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00124	09/29/21	03/29/21	Acetonitrile, Lot Acetonitrile_00050	400 mL	8330SurrStkSS_00185	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00188	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00192	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00193	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
.8330SurrStkSS_00185	05/31/25	Restek, Lot A0160559			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00188	09/30/25	Restek, Lot A0164261			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00192	09/30/25	Restek, Lot A0164261			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00193	09/30/25	Restek, Lot A0164261			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL

Reagent

8330 LCS_00108

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X5\20210401-100246.b\04010006.D

Lims ID: Phenyl-Hexyl:H20-014671 Inj. Date: 01-Apr-2021 16:25:43

Worklist ID: 280-0100246-006 Instrument: CHHPLC_X5

Method: 8330_X5_Luna

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 3535
6 HMX	0.5000	0.4313	86.3	65-135	
5 2,4,6-Trinitrophenol	0.5000	0.4984	99.7	73-124	80-120
8 RDX	0.5000	0.4421	88.4	68-130	
9 Nitrobenzene	0.5000	0.4453	89.1	65-134	
12 1,3-Dinitrobenzene	0.5000	0.4523	90.5	78-120	
13 Nitroglycerin	5.00	4.36	87.2	74-127	
14 o-Nitrotoluene	0.5000	0.4357	87.1	70-127	
15 p-Nitrotoluene	0.5000	0.4531	90.6	71-127	
16 4AMD	0.5000	0.4354	87.1	76-125	
17 m-Nitrotoluene	0.5000	0.4468	89.4	73-125	
18 2-Amino-4,6-dinitrotolu	0.5000	0.4371	87.4	79-120	
19 1,3,5-Trinitrobenzene	0.5000	0.4516	90.3	73-125	
20 2,6-Dinitrotoluene	0.5000	0.4547	90.9	77-127	
21 2,4-Dinitrotoluene	0.5000	0.4375	87.5	78-120	
22 Tetryl	0.5000	0.4501	90.0	64-128	
23 2,4,6-Trinitrotoluene	0.5000	0.4624	92.5	71-123	
24 PETN	5.00	4.48	89.6	73-127	

Samples for Limit Group: 1, Lims Prep Method: 8330B_Sonc_10g

280-146741-A-1-A 280-146741-A-2-A

Samples for Limit Group: 2, Lims Prep Method: 3535

280-146623-B-5-A 160-41555-D-1-A 160-41555-D-3-A

160-41555-C-5-A

Reagent

8330 Stock_TS_00015

Certificate of Analysis
ISO Guide 34

Agilent

Stock Standard

Product Number: NAIM-833E **Page:** 1 of 2

Lot Number: CT-0801 **Lot Issue Date:** 25-Feb-2019 **Expiration Date:** 31-Mar-2022

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
HMX	002691-41-0	RM06237	1000 ± 5 µg/mL
RDX	000121-82-4	RM10915	1000 ± 5 µg/mL
1,3,5-trinitrobenzene	000099-35-4	RM06608	1002 ± 5 µg/mL
m-dinitrobenzene	000099-65-0	RM14290	1002 ± 5 µg/mL
nitrobenzene	000098-95-3	RM11472	1004 ± 5 µg/mL
2,4,6-trinitrotoluene (TNT)	000118-96-7	RM11972	1004 ± 5 µg/mL
2,4-dinitrotoluene	000121-14-2	RM10279	1004 ± 5 µg/mL
tetryl	000479-45-8	RM14651	1002 ± 5 µg/mL
2,6-dinitrotoluene	000606-20-2	NT00450	1004 ± 5 µg/mL
2-nitrotoluene	000088-72-2	NT01996	1000 ± 5 µg/mL
3-nitrotoluene	000099-08-1	NT02212	1001 ± 5 µg/mL
4-nitrotoluene	000099-99-0	NT02096	1002 ± 5 µg/mL
2-amino-4,6-dinitrotoluene	035572-78-2	RM04229	1004 ± 5 µg/mL
4-amino-2,6-dinitrotoluene	019406-51-0	RM04226	1001 ± 5 µg/mL

Matrix: acetonitrile

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB ACCREDITED ISO Guide 34 REFERENCE MATERIAL PRODUCER

ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO17025 Cert No. AT-1937

Certificate of Analysis
ISO Guide 34

Stock Standard

Product Number: NAIM-833E **Page:** 2 of 2

Lot Number: CT-0801 **Lot Issue Date:** 25-Feb-2019 **Expiration Date:** 31-Mar-2022

Analyte	CAS#	Analyte Lot	True Value

Monica Bourgeois
QMS Representative

ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ISO17025 Cert No.
AT-1937

Reagent

8330 Stock_TS_00018

Certificate of Analysis
ISO Guide 34

Agilent

Stock Standard

Product Number: NAIM-833E **Page:** 1 of 2

Lot Number: CT-0801 **Lot Issue Date:** 25-Feb-2019 **Expiration Date:** 31-Mar-2022

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
HMX	002691-41-0	RM06237	1000 ± 5 µg/mL
RDX	000121-82-4	RM10915	1000 ± 5 µg/mL
1,3,5-trinitrobenzene	000099-35-4	RM06608	1002 ± 5 µg/mL
m-dinitrobenzene	000099-65-0	RM14290	1002 ± 5 µg/mL
nitrobenzene	000098-95-3	RM11472	1004 ± 5 µg/mL
2,4,6-trinitrotoluene (TNT)	000118-96-7	RM11972	1004 ± 5 µg/mL
2,4-dinitrotoluene	000121-14-2	RM10279	1004 ± 5 µg/mL
tetryl	000479-45-8	RM14651	1002 ± 5 µg/mL
2,6-dinitrotoluene	000606-20-2	NT00450	1004 ± 5 µg/mL
2-nitrotoluene	000088-72-2	NT01996	1000 ± 5 µg/mL
3-nitrotoluene	000099-08-1	NT02212	1001 ± 5 µg/mL
4-nitrotoluene	000099-99-0	NT02096	1002 ± 5 µg/mL
2-amino-4,6-dinitrotoluene	035572-78-2	RM04229	1004 ± 5 µg/mL
4-amino-2,6-dinitrotoluene	019406-51-0	RM04226	1001 ± 5 µg/mL

Matrix: acetonitrile

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB ACCREDITED ISO Guide 34 REFERENCE MATERIAL PRODUCER

ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO17025 Cert No. AT-1937

Certificate of Analysis
ISO Guide 34

Stock Standard

Product Number: NAIM-833E **Page:** 2 of 2

Lot Number: CT-0801 **Lot Issue Date:** 25-Feb-2019 **Expiration Date:** 31-Mar-2022

Analyte	CAS#	Analyte Lot	True Value

Monica Bourgeois
QMS Representative

ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ISO17025 Cert No.
AT-1937

Reagent

8330_NG_Stk_00094

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568871 **Lot No.:** A0161450

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	5,020.0 µg/mL	+/- 46.6833	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 200507JLM)		+/- 277.3466	µg/mL	Unstressed
	Purity 99%		+/- 322.6949	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

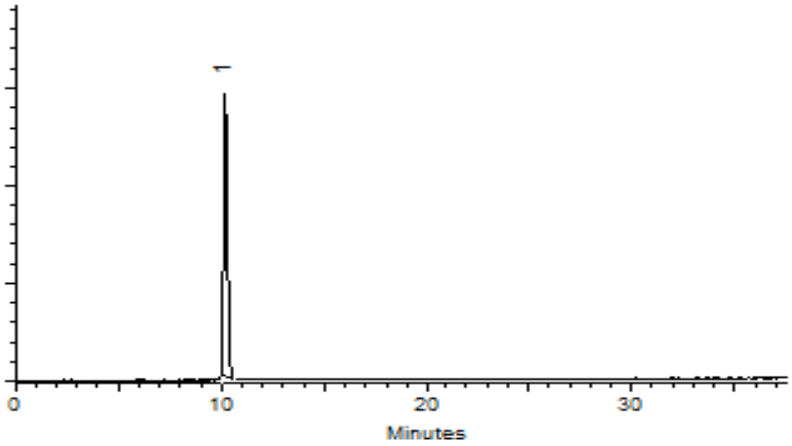
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 03-Jun-2020 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 04-Jun-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

8330_NG_Stk_00101

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Composition

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568871 **Lot No.:** A0161120

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin **CAS #** 55-63-0 (Lot 200507JLM) **Purity** 99%	5,024.0 µg/mL	+/- 46.7205	µg/mL	Gravimetric
			+/- 277.5676	µg/mL	Unstressed
			+/- 322.9521	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Reagent

8330_NG_Stk_00102

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Composition

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568871 **Lot No.:** A0161120

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin **CAS #** 55-63-0 (Lot 200507JLM) **Purity** 99%	5,024.0 µg/mL	+/- 46.7205	µg/mL	Gravimetric
			+/- 277.5676	µg/mL	Unstressed
			+/- 322.9521	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Reagent

8330_OP_DMT_00009

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20200818-94226.b\08180006.D

Lims ID: C18column:B16162 Inj. Date: 18-Aug-2020 16:53:53

Worklist ID: 280-0094226-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
2 TNX	0.2503	0.2275	90.9	50-150		
5 DNX	0.2503	0.2475	98.9	66-119	50-150	
6 MNX	0.2918	0.2601	89.2	57-132	68-123	

Samples for Limit Group: 1, Lims Prep Method: 3535

280-139502-A-1-A 280-139502-A-2-A 280-139502-A-3-A
280-139502-A-4-A 280-139485-A-1-A 280-139485-A-2-A
280-139485-A-3-A 280-139485-A-4-A 280-139485-A-5-A
280-139362-A-1-A 280-139362-A-2-A 280-139362-A-3-A
280-139434-A-12-A 280-139434-A-14-A 280-139434-A-16-A
280-139434-A-18-A 280-139434-A-20-A 280-139434-A-22-A
280-139434-A-28-A 280-139434-A-35-A 280-139434-A-41-A
280-139466-A-6-A 280-139466-A-13-A 280-139472-A-4-A
280-139472-A-15-A 280-139435-A-1-A 280-139467-A-9-A
280-139469-A-6-A 280-139469-A-17-A 280-139470-A-4-A
280-139470-A-14-A

Samples for Limit Group: 2, Lims Prep Method: 3535

600-209588-G-1-A 280-139486-A-1-A 280-139486-A-2-A
280-139514-A-1-A 280-139514-A-2-A 280-139514-A-3-A
280-139514-A-4-A

Samples for Limit Group: 3, Lims Prep Method: 3535

280-139522-A-1-A 280-139524-A-1-A

Reagent

8330_OP_DMT_00011

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20210602-102004.b\06020006.D

Lims ID: C18column:B16162 Inj. Date: 02-Jun-2021 16:51:12

Worklist ID: 280-0102004-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535
2 TNX	0.5005	0.5222	104.3	50-150
5 DNX	0.5005	0.5023	100.4	66-119
6 MNX	0.5835	0.5910	101.3	57-132

Samples for Limit Group: 1, Lims Prep Method: 3535

280-149049-A-5-A	280-149049-A-11-A	280-149049-A-12-A
280-149013-A-16-A	280-149013-A-17-A	280-149013-A-18-A
280-149013-B-19-A	280-149013-B-21-A	280-149013-A-22-A
280-149013-A-23-A	280-149013-B-24-A	280-149013-B-25-A
280-149013-B-26-A	280-149013-B-27-A	280-149013-A-28-A
280-149013-A-29-A	280-149013-A-30-A	280-149013-B-31-A
280-149013-B-32-A	280-149013-B-33-A	280-149013-A-34-A
280-149013-B-35-A	280-149013-B-36-A	

Reagent

8330_PETN_Stk_00087

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568872 **Lot No.:** A0154763

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 10°C or colder

C E R T I F I E D V A L U E S

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	PETN			5,024.0	µg/mL	+/-	46.7205	µg/mL	Gravimetric
	CAS #	78-11-5	(Lot 051108JLM)			+/-	277.5676	µg/mL	Unstressed
	Purity	99%				+/-	322.9521	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

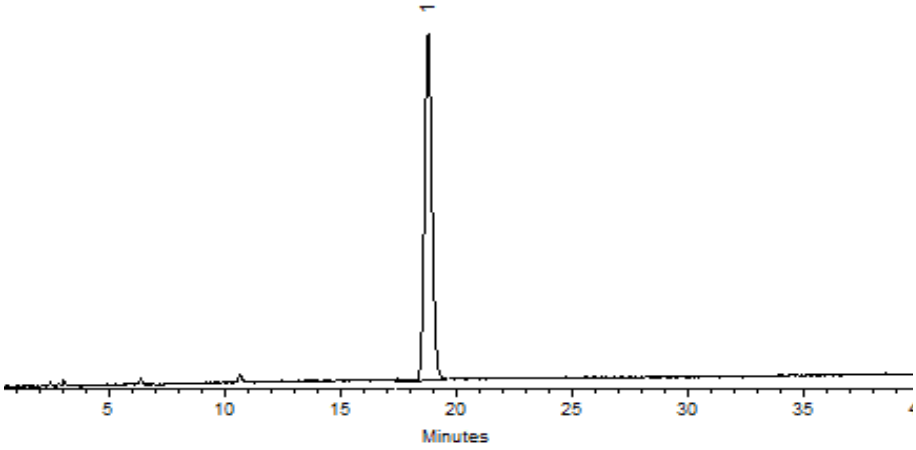
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Clara Windle - Operations Technician I

Date Mixed: 05-Nov-2019 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8330_PETN_Stk_00104

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568872 **Lot No.:** A0167376

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2023 **Storage:** 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	PETN			5,020.0	µg/mL	+/-	46.6833	µg/mL	Gravimetric
	CAS #	78-11-5	(Lot 051108JLM)			+/-	277.3466	µg/mL	Unstressed
	Purity	99%				+/-	322.6949	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

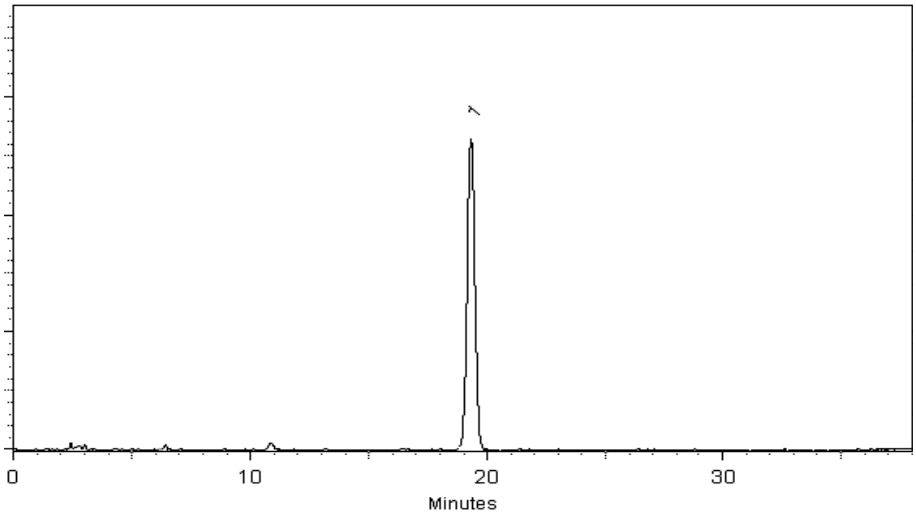
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 18-Dec-2020 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 29-Dec-2020

REVIEWED
By Jennifer Pollino at 2:34 pm, Dec 29, 2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

8330_PETN_Stk_00105

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568872 **Lot No.:** A0167376

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2023 **Storage:** 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	PETN			5,020.0	µg/mL	+/-	46.6833	µg/mL	Gravimetric
	CAS #	78-11-5	(Lot 051108JLM)			+/-	277.3466	µg/mL	Unstressed
	Purity	99%				+/-	322.6949	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

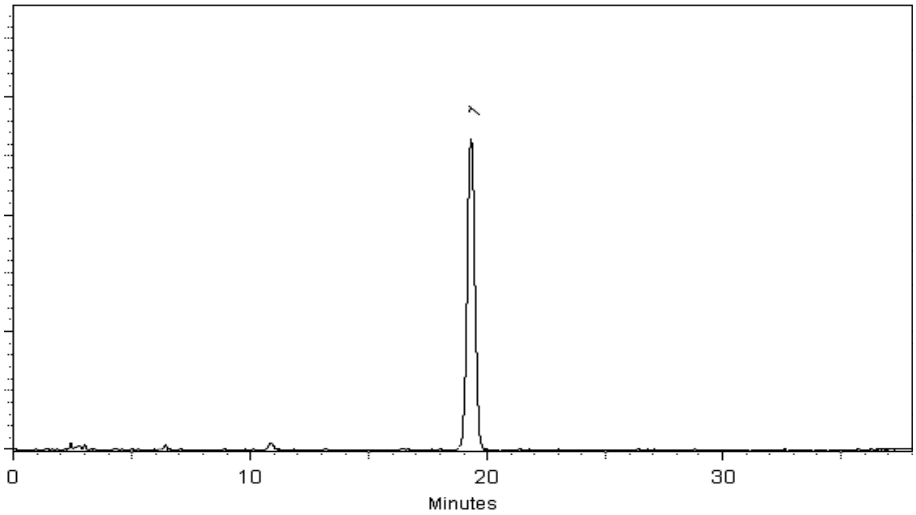
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 18-Dec-2020 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 29-Dec-2020

REVIEWED
By Jennifer Pollino at 2:34 pm, Dec 29, 2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

8330LCSMix1_00121

4 vials Rec. 10/6/20
8330 Cali mix 1

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31450 **Lot No.:** A0163590

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	HMX **CAS #** 2691-41-0 **Purity** 98%	(Lot 191003JLM)	1,002.5 µg/mL	+/- 5.9548 µg/mL +/- 54.9222 µg/mL +/- 64.0446 µg/mL		Gravimetric Unstressed Stressed
2	RDX **CAS #** 121-82-4 **Purity** 99%	(Lot 080228JLM)	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL		Gravimetric Unstressed Stressed
3	1,3,5-Trinitrobenzene **CAS #** 99-35-4 **Purity** 99%	(Lot A6TDK)	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL		Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot BCBN4329V)	1,007.0 µg/mL	+/- 5.9813 µg/mL +/- 55.1665 µg/mL +/- 64.3295 µg/mL		Gravimetric Unstressed Stressed
5	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot SHBJ3622)	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 54.7830 µg/mL +/- 63.8824 µg/mL		Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene **CAS #** 118-96-7 **Purity** 99%	(Lot 5737200)	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 55.1117 µg/mL +/- 64.2657 µg/mL		Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,009.0 µg/mL	+/- 5.9932 µg/mL +/- 55.2761 µg/mL +/- 64.4573 µg/mL		Gravimetric Unstressed Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

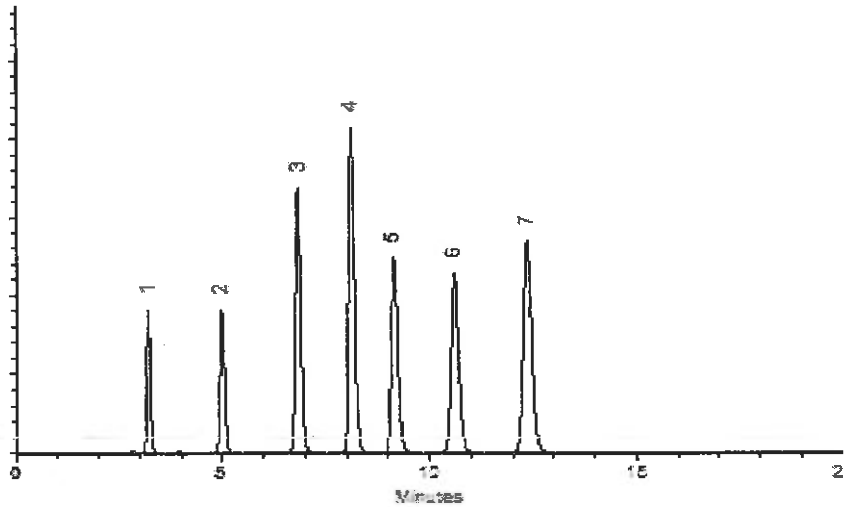
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dalton Stover - Operations Technician I

Date Mixed: 17-Aug-2020 **Balance:** 1128353505

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 19-Aug-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330LCSmix2_00023

Rec 1/22/21 AK 2 vials

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31451 **Lot No.:** A0165983

Description : 8330 Calibration Mix #2

8330 Calibration Std #2 1000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Tetryl **CAS #** 479-45-8 **Purity** 99%	(Lot 091120JLM)	1,000.6 µg/mL	+/- 5.9433 +/- 54.8159 +/- 63.9207	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene **CAS #** 19406-51-0 **Purity** 99%	(Lot ER070908-01)	1,000.8 µg/mL	+/- 5.9444 +/- 54.8268 +/- 63.9335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene **CAS #** 35572-78-2 **Purity** 99%	(Lot 29550-55)	1,001.0 µg/mL	+/- 5.9456 +/- 54.8378 +/- 63.9463	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot BCBB8606)	1,001.0 µg/mL	+/- 5.9456 +/- 54.8378 +/- 63.9463	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene **CAS #** 88-72-2 **Purity** 99%	(Lot BCBZ7826)	1,000.6 µg/mL	+/- 5.9433 +/- 54.8159 +/- 63.9207	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene **CAS #** 99-99-0 **Purity** 99%	(Lot FAU01)	1,001.2 µg/mL	+/- 5.9468 +/- 54.8487 +/- 63.9590	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene **CAS #** 99-08-1 **Purity** 99%	(Lot 07329LG)	1,000.4 µg/mL	+/- 5.9421 +/- 54.8049 +/- 63.9079	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

8330PAStkPS_00064

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-3
Description: Picric acid
Lot: 218031154-01
Solvent: Acetonitrile (50%)
Methanol (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 22, 2019
Expiration: May 22, 2021
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (HPLC)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Picric acid	88-89-1	99.1	100.1	99.2

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 822-275872-11

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

Reagent

8330Surrogate_00124

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20210330-100173.b\03300006.D

Lims ID: C18column:B16162 Inj. Date: 30-Mar-2021 16:29:09

Worklist ID: 280-0100173-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535	Limits 4 3535
$ 9 1,2-Dinitrobenzene	0.5000	0.4768	95.4	63-127	83-119		

Samples for Limit Group: 1, Lims Prep Method: 3535

860-270-C-1-A

Samples for Limit Group: 2, Lims Prep Method: 3535

280-146579-B-1-A

Samples for Limit Group: 3, Lims Prep Method: 3535

280-146648-A-7-A 280-146741-A-1-A 280-146741-A-2-A

280-146741-A-3-A 280-146741-G-8-A

Samples for Limit Group: 4, Lims Prep Method: 3535

280-146625-B-1-A 280-146625-B-2-A 280-146623-A-1-A

280-146623-B-2-A 280-146623-A-3-A 280-146623-A-4-A

280-146623-B-5-A 280-146623-A-6-A 280-146623-B-7-A

Reagent

8330SurrStkSS_00185

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31453 **Lot No.:** A0160559

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99% (Lot MKCH6067)	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
			+/- 56.1943	µg/mL	Unstressed
			+/- 57.5086	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

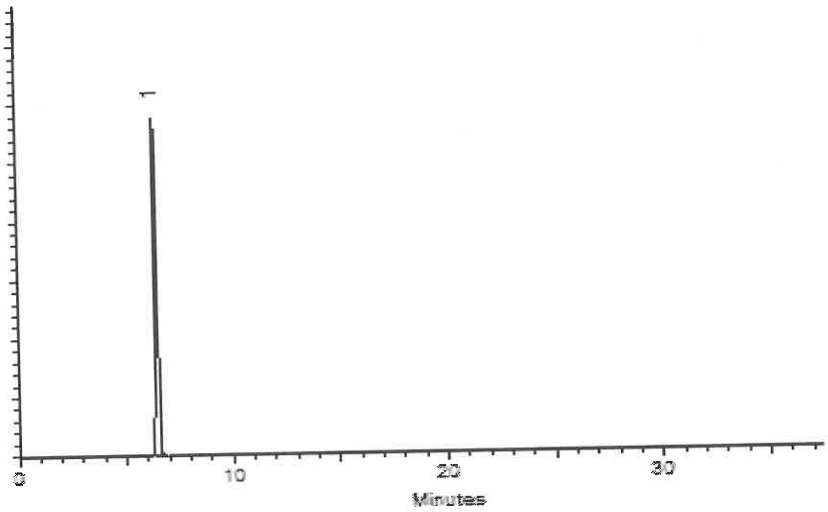
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 05-May-2020 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-May-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330SurrStkSS_00188

Rec 1/22/21 AC 2 vials

RESTEK®

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31453 **Lot No.:** A0164261

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99% (Lot MKCH6067)	1,007.0 µg/mL	+/- 5.9813	µg/mL	Gravimetric
			+/- 56.4747	µg/mL	Unstressed
			+/- 57.7956	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

8330SurrStkSS_00192

Rec 1/22/21 AC 2 vials

RESTEK®

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31453 **Lot No.:** A0164261

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99% (Lot MKCH6067)	1,007.0 µg/mL	+/- 5.9813	µg/mL	Gravimetric
			+/- 56.4747	µg/mL	Unstressed
			+/- 57.7956	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

8330SurrStkSS_00193

Rec 1/22/21 AC 2 vials

RESTEK®

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31453 **Lot No.:** A0164261

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99% (Lot MKCH6067)	1,007.0 µg/mL	+/- 5.9813	µg/mL	Gravimetric
			+/- 56.4747	µg/mL	Unstressed
			+/- 57.7956	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

8330SurrStock_00164

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-SS
Description: 1,2-Dinitrobenzene
Lot: 216071012
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jul 1, 2016
Expiration: Jul 1, 2026
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
1,2-Dinitrobenzene	528-29-0	100.0	100.1	1001

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weights are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

Reagent

8330SurrStock_00168

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-SS
Description: 1,2-Dinitrobenzene
Lot: 219051500
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 22, 2019
Expiration: May 22, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
1,2-Dinitrobenzene	528-29-0	100.0	1002	1002

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

Reagent

MNX,TNX,DNX_00048

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Issue Date: 27-Apr-2020

Lot Number: 0006535619

Expiration Date: 31-May-2021

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.0 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Reagent

MNX,TNX,DNX_00049

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Issue Date: 27-Apr-2020

Lot Number: 0006535619

Expiration Date: 31-May-2021

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.0 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/

CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Reagent

MNX,TNX,DNX_00050

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Issue Date: 27-Apr-2020

Lot Number: 0006535619

Expiration Date: 31-May-2021

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.0 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/

CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Reagent

MNX,TNX,DNX_00051

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Issue Date: 27-Apr-2020

Lot Number: 0006535619

Expiration Date: 31-May-2021

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.0 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/

CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Reagent

MNX,TNX,DNX_00054

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984 **Lot Issue Date:** 10-Mar-2021

Lot Number: 0006594482 **Expiration Date:** 30-Apr-2022

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	99.7 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.1 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	116.7 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the LRQA registered ISO 9001:2015 Quality Management System. Cert # 10303760
Page: 1 of 2
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Certificate of Analysis

Product Number: CUS-23984 **Lot Number:** 0006594482

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the LRQA registered ISO 9001:2015 Quality Management System. Cert # 10303760
Page: 2 of 2
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Reagent

MNX,TNX,DNX_00059

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Number: 0006599273

Lot Issue Date: 02-Apr-2021

Expiration Date: 30-Apr-2022

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.4 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.1 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	116.7 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with the LRQA registered ISO 9001:2015 Quality Management System. Cert # 10303760
Page: 1 of 2
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY
ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Certificate of Analysis

Product Number: CUS-23984

Lot Number: 0006599273

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the LRQA registered ISO 9001:2015 Quality Management System. Cert # 10303760
Page: 2 of 2
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Reagent

PicricARestek_00097

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31499 **Lot No.:** A0164473

Description : Picric Acid Standard

Picric Acid Standard 1000µg/mL, Methanol, 1mL/1000µg/mL *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Picric Acid **CAS #** 88-89-1 **Purity** 97% (Lot 06130CU)	1,006.9 µg/mL	+/- 5.9804	µg/mL	Gravimetric
			+/- 55.1588	µg/mL	Unstressed
			+/- 64.3206	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Rec 2/10/21 2 vials

AL

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

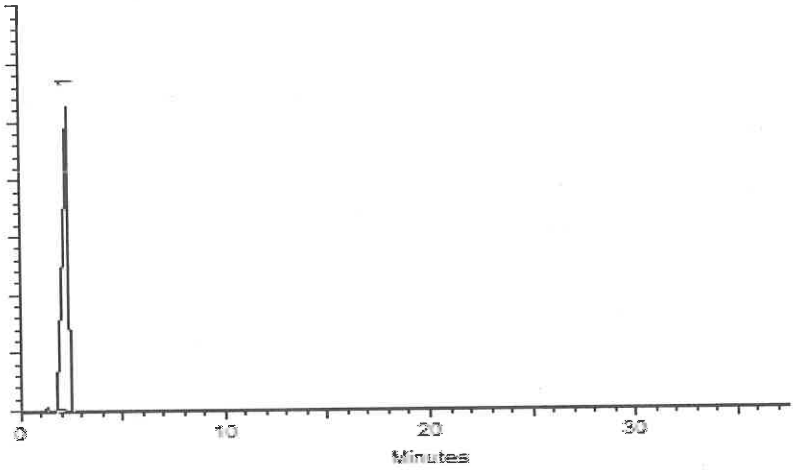
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble - Operations Technician I

Date Mixed: 16-Sep-2020 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 24-Sep-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

8330A_DOD5

Nitroaromatics and Nitramines (HPLC)

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): UltraCarb5u ID: 4.6 (mm) GC Column (2): Luna-phenyl 4.6 (mm)

Client Sample ID	Lab Sample ID	12DNB1 #	12DNB2 #
OS003-DP06-25	280-149356-1	86	
OS003-DP06-35	280-149356-2	96	
OS003-DP06-45	280-149356-3	96	
OS001-DP06-25	280-149356-4	91 M	
OS001-DP06-25	280-149356-4		99 M
OS001-DP06-25 DL	280-149356-4 DL	93 D	
OS001-DP06-25 DL	280-149356-4 DL		90 D
OS001-DP06-35	280-149356-5	79 Q M	
OS001-DP06-35	280-149356-5		71 M Q
OS001-DP06-45	280-149356-6	94 M	
OS001-DP06-45	280-149356-6		86
NW050R-DP06-20	280-149356-7	86 M	
NW050R-DP06-35	280-149356-8	92 M	
NW050R-DP06-35	280-149356-8		87
NW050R-DP06-60	280-149356-9	88 M	
OS501-DP06-25	280-149356-10	93 M	
OS501-DP06-25 DL	280-149356-10 DL	94 D	
OS501-DP06-25 DL	280-149356-10 DL		107 D
	MB 280-539020/1-A	94 M	
	LCS 280-539020/2-A	97	
	LCS 280-539020/3-A	98	
OS003-DP06-45 MS	280-149356-3 MS	92 M	
OS003-DP06-45 MS	280-149356-3 MS	98	
OS003-DP06-45 MSD	280-149356-3 MSD	88 M	
OS003-DP06-45 MSD	280-149356-3 MSD	94	

	QC LIMITS
12DNB = 1,2-Dinitrobenzene	83-119

Column to be used to flag recovery values

FORM II 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06090012.D

Lab ID: LCS 280-539020/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	1.91	96	73-125	
1,3-Dinitrobenzene	2.00	1.87	94	78-120	
2,4,6-Trinitrotoluene	2.00	1.90	95	71-123	
2,4-Dinitrotoluene	2.00	1.78	89	78-120	
2,6-Dinitrotoluene	2.00	1.83	91	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.73	87	79-120	
2-Nitrotoluene	2.00	1.40	70	70-127	
3-Nitrotoluene	2.00	1.47	73	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.69	84	76-125	
4-Nitrotoluene	2.00	1.44	72	71-127	
HMX	2.00	1.82	91	65-135	M
Nitrobenzene	2.00	1.60	80	65-134	
RDX	2.00	1.81	90	68-130	
Tetryl	2.00	1.83	91	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06090013.D

Lab ID: LCS 280-539020/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	2.22	95	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06090017.D

Lab ID: 280-149356-3 MS Client ID: OS003-DP06-45 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.05	0.20 U	1.86	91	73-125	M
1,3-Dinitrobenzene	2.05	0.10 U	1.86	91	78-120	
2,4,6-Trinitrotoluene	2.05	0.10 U	1.85	90	71-123	
2,4-Dinitrotoluene	2.05	0.080 U	1.68	82	78-120	
2,6-Dinitrotoluene	2.05	0.080 U	1.72	84	77-127	
2-Amino-4,6-dinitrotoluene	2.05	0.10 U	1.61	79	79-120	
2-Nitrotoluene	2.05	0.20 U	1.33	65	70-127	J1
3-Nitrotoluene	2.05	0.40 U	1.30	63	73-125	J1
4-Amino-2,6-dinitrotoluene	2.05	0.12 U	1.45	71	76-125	J1
4-Nitrotoluene	2.05	0.40 U	1.38	67	71-127	J1
HMX	2.05	0.20 U	1.89	92	65-135	M
Nitrobenzene	2.05	0.20 U	1.53	75	65-134	
RDX	2.05	0.20 U	1.75	86	68-130	M
Tetryl	2.05	0.10 U	1.89	92	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06090019.D

Lab ID: 280-149356-3 MS Client ID: OS003-DP06-45 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
MNX	2.32	0.40 U	2.11	91	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06090018.D

Lab ID: 280-149356-3 MSD Client ID: OS003-DP06-45 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.01	1.78	89	4	30	73-125	M
1,3-Dinitrobenzene	2.01	1.74	87	7	30	78-120	
2,4,6-Trinitrotoluene	2.01	1.74	87	6	30	71-123	
2,4-Dinitrotoluene	2.01	1.55	77	8	30	78-120	J1
2,6-Dinitrotoluene	2.01	1.61	80	7	30	77-127	
2-Amino-4,6-dinitrotoluene	2.01	1.49	74	8	30	79-120	J1
2-Nitrotoluene	2.01	1.18	58	13	30	70-127	J1
3-Nitrotoluene	2.01	1.13	56	14	30	73-125	J1
4-Amino-2,6-dinitrotoluene	2.01	1.33	66	9	30	76-125	J1
4-Nitrotoluene	2.01	1.20	59	14	30	71-127	M J1
HMX	2.01	1.83	91	3	30	65-135	M
Nitrobenzene	2.01	1.39	69	9	30	65-134	
RDX	2.01	1.70	84	3	30	68-130	M
Tetryl	2.01	1.79	89	6	30	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06090020.D

Lab ID: 280-149356-3 MSD Client ID: OS003-DP06-45 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
MNX	2.29	2.04	89	3	30	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: MB 280-539020/1-A

Matrix: Water Date Extracted: 06/08/2021 18:12

Lab File ID:(1) 06090011.D Lab File ID:(2)

Date Analyzed:(1) 06/09/2021 16:24 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_X5

GC Column:(1) UltraCarb5uO ID: 4.6(mm) GC Column:(2) Luna-phenylh ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-539020/2-A	06/09/2021 16:47	
	LCS 280-539020/3-A	06/09/2021 17:10	
OS003-DP06-25	280-149356-1	06/09/2021 17:33	
OS003-DP06-35	280-149356-2	06/09/2021 17:56	
OS003-DP06-45	280-149356-3	06/09/2021 18:19	
OS003-DP06-45 MS	280-149356-3 MS	06/09/2021 18:42	
OS003-DP06-45 MSD	280-149356-3 MSD	06/09/2021 19:05	
OS003-DP06-45 MS	280-149356-3 MS	06/09/2021 19:28	
OS003-DP06-45 MSD	280-149356-3 MSD	06/09/2021 19:51	
OS001-DP06-25	280-149356-4	06/09/2021 21:00	06/10/2021 20:47
OS001-DP06-35	280-149356-5	06/09/2021 21:23	06/10/2021 21:57
OS001-DP06-45	280-149356-6	06/09/2021 21:46	06/10/2021 22:32
NW050R-DP06-20	280-149356-7	06/09/2021 22:09	
NW050R-DP06-35	280-149356-8	06/09/2021 22:32	06/10/2021 23:07
NW050R-DP06-60	280-149356-9	06/09/2021 22:55	
OS501-DP06-25	280-149356-10	06/09/2021 23:18	06/10/2021 23:42
OS001-DP06-25 DL	280-149356-4 DL	06/10/2021 16:24	06/10/2021 21:22
OS501-DP06-25 DL	280-149356-10 DL	06/10/2021 16:47	06/11/2021 00:17

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Client Sample ID: OS001-DP06-25 Lab Sample ID: 280-149356-4

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 06/09/2021 21:00 Date Analyzed (2): 06/10/2021 20:47

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.58	7.43	7.73	0.40		71.7
	2		8.79	8.66	8.96	0.19		
1,3,5-Trinitrobenzene	1		8.64	8.49	8.79	0.84		22.9
	2		18.75	18.62	18.92	1.1		
2,4,6-Trinitrotoluene	1		10.90	10.80	11.00	26		5.0
	2		25.03	24.94	25.24	27		
4-Amino-2,6-dinitrotoluene	1		11.10	11.00	11.20	1.8		24.4
	2		17.30	17.20	17.50	2.3		
2-Amino-4,6-dinitrotoluene	1		11.36	11.26	11.46	2.3		11.3
	2		18.21	18.10	18.40	2.6		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Client Sample ID: OS001-DP06-25 DL Lab Sample ID: 280-149356-4 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 06/10/2021 16:24 Date Analyzed (2): 06/10/2021 21:22

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.64	8.50	8.80	0.80		22.6
	2		18.75	18.62	18.92	1.0		
2,4,6-Trinitrotoluene	1		10.92	10.81	11.01	26		2.8
	2		25.05	24.94	25.24	27		
4-Amino-2,6-dinitrotoluene	1		11.12	11.02	11.22	1.8		14.9
	2		17.32	17.20	17.50	2.1		
2-Amino-4,6-dinitrotoluene	1		11.38	11.28	11.48	2.3		3.9
	2		18.23	18.10	18.40	2.4		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Client Sample ID: OS001-DP06-35 Lab Sample ID: 280-149356-5

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 06/09/2021 21:23 Date Analyzed (2): 06/10/2021 21:57

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.64	8.49	8.79	23		2.5
	2		18.74	18.62	18.92	24		
2,4,6-Trinitrotoluene	1		10.90	10.80	11.00	4.9		2.7
	2		25.03	24.94	25.24	5.0		
4-Amino-2,6-dinitrotoluene	1		11.10	11.00	11.20	0.99		24.4
	2		17.31	17.20	17.50	1.3		
2-Amino-4,6-dinitrotoluene	1		11.36	11.26	11.46	0.52		32.1
	2		18.21	18.10	18.40	0.72		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Client Sample ID: OS001-DP06-45 Lab Sample ID: 280-149356-6

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 06/09/2021 21:46 Date Analyzed (2): 06/10/2021 22:32

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.64	8.49	8.79	5.4		3.6
	2		18.73	18.62	18.92	5.6		
2,4,6-Trinitrotoluene	1		10.90	10.80	11.00	0.34		40.8
	2		25.01	24.94	25.24	0.22		
4-Amino-2,6-dinitrotoluene	1		11.10	11.00	11.20	0.13		77.6
	2		17.29	17.20	17.50	0.30		
2-Amino-4,6-dinitrotoluene	1		11.36	11.26	11.46	0.23		64.3
	2		18.23	18.10	18.40	0.46		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Client Sample ID: OS501-DP06-25 Lab Sample ID: 280-149356-10

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 06/09/2021 23:18 Date Analyzed (2): 06/10/2021 23:42

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.57	7.43	7.73	0.39		77.6
	2		8.76	8.66	8.96	0.17		
1,3,5-Trinitrobenzene	1		8.63	8.49	8.79	0.89		16.8
	2		18.75	18.62	18.92	1.1		
2,4,6-Trinitrotoluene	1		10.89	10.80	11.00	27		4.3
	2		25.02	24.94	25.24	28		
4-Amino-2,6-dinitrotoluene	1		11.10	11.00	11.20	1.8		22.5
	2		17.30	17.20	17.50	2.3		
2-Amino-4,6-dinitrotoluene	1		11.36	11.26	11.46	2.4		14.0
	2		18.20	18.10	18.40	2.7		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Client Sample ID: OS501-DP06-25 DL Lab Sample ID: 280-149356-10 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 06/10/2021 16:47 Date Analyzed (2): 06/11/2021 00:17

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.64	8.50	8.80	0.85		33.3
	2		18.77	18.62	18.92	1.2		
2,4,6-Trinitrotoluene	1		10.91	10.81	11.01	27		3.3
	2		25.03	24.94	25.24	28		
4-Amino-2,6-dinitrotoluene	1		11.11	11.02	11.22	1.8		19.0
	2		17.32	17.20	17.50	2.1		
2-Amino-4,6-dinitrotoluene	1		11.38	11.28	11.48	2.3		13.2
	2		18.22	18.10	18.40	2.7		

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS003-DP06-25
Lab Sample ID: 280-149356-1
Matrix: Water
Lab File ID: 06090014.D
Analysis Method: 8330A
Date Collected: 06/02/2021 08:30
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 506.8(mL)
Date Analyzed: 06/09/2021 17:33
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U M	0.21	0.20	0.083
99-65-0	1,3-Dinitrobenzene	0.099	U M	0.11	0.099	0.036
118-96-7	2,4,6-Trinitrotoluene	0.099	U	0.11	0.099	0.044
121-14-2	2,4-Dinitrotoluene	0.079	U	0.099	0.079	0.027
606-20-2	2,6-Dinitrotoluene	0.079	U	0.099	0.079	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.099	U	0.11	0.099	0.050
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.084
99-08-1	3-Nitrotoluene	0.39	U	0.39	0.39	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057
99-99-0	4-Nitrotoluene	0.39	U	0.40	0.39	0.099
2691-41-0	HMX	0.20	U	0.21	0.20	0.086
5755-27-1	MNX	0.39	U M	2.0	0.39	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.090
121-82-4	RDX	0.20	U	0.21	0.20	0.051
479-45-8	Tetryl	0.099	U M	0.11	0.099	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	86		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090014.D				
Lims ID:	280-149356-A-1-A				
Client ID:	OS003-DP06-25				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 17:33:44	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-1-A				
Misc. Info.:	280-0102208-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 18:26:44		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.611			ND	
6 MNX	1		7.214			ND	U
7 RDX	1		7.584			ND	
$ 9 1,2-Dinitrobenzene	1	8.505	8.511	-0.006	22070	0.1721	
10 1,3,5-Trinitrobenzene	1		8.637			ND	U
11 1,3-Dinitrobenzene	1		9.264			ND	U
12 Nitrobenzene	1		9.651			ND	
14 Tetryl	1		9.977			ND	U
16 2,4,6-Trinitrotoluene	1		10.897			ND	
17 4-Amino-2,6-dinitrotoluene	1		11.104			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.364			ND	
19 2,6-Dinitrotoluene	1		11.531			ND	
20 2,4-Dinitrotoluene	1		11.704			ND	
21 o-Nitrotoluene	1		12.571			ND	
22 p-Nitrotoluene	1		13.011			ND	
23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags

Review Flags

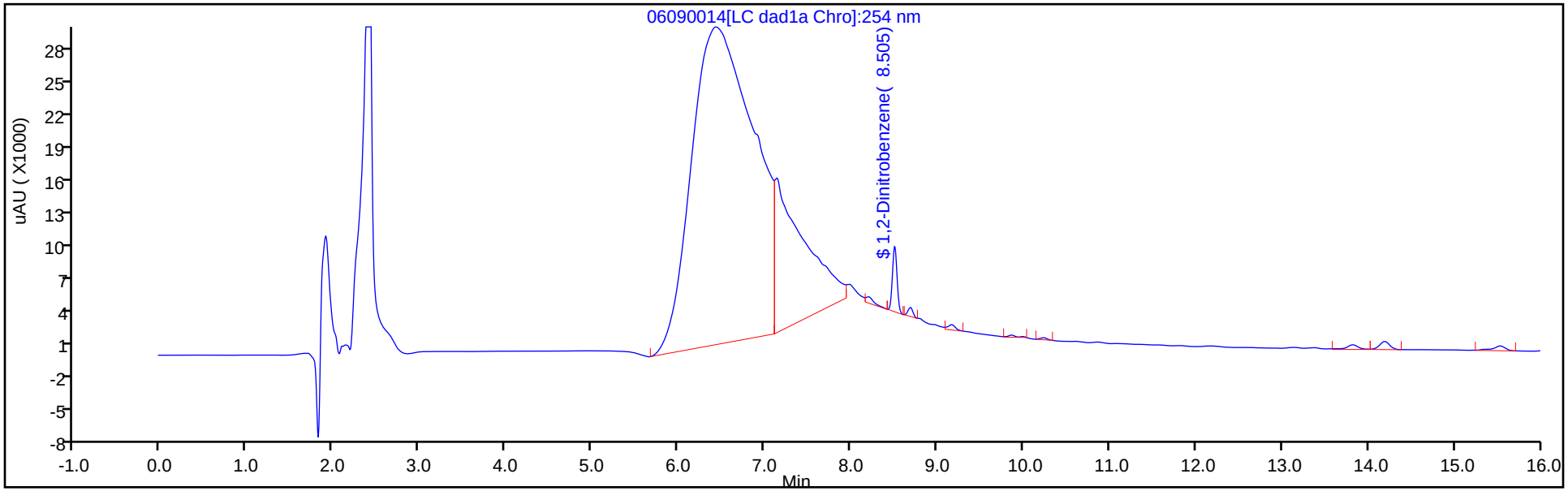
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:03 Chrom Revision: 2.3 13-May-2021 07:57:40

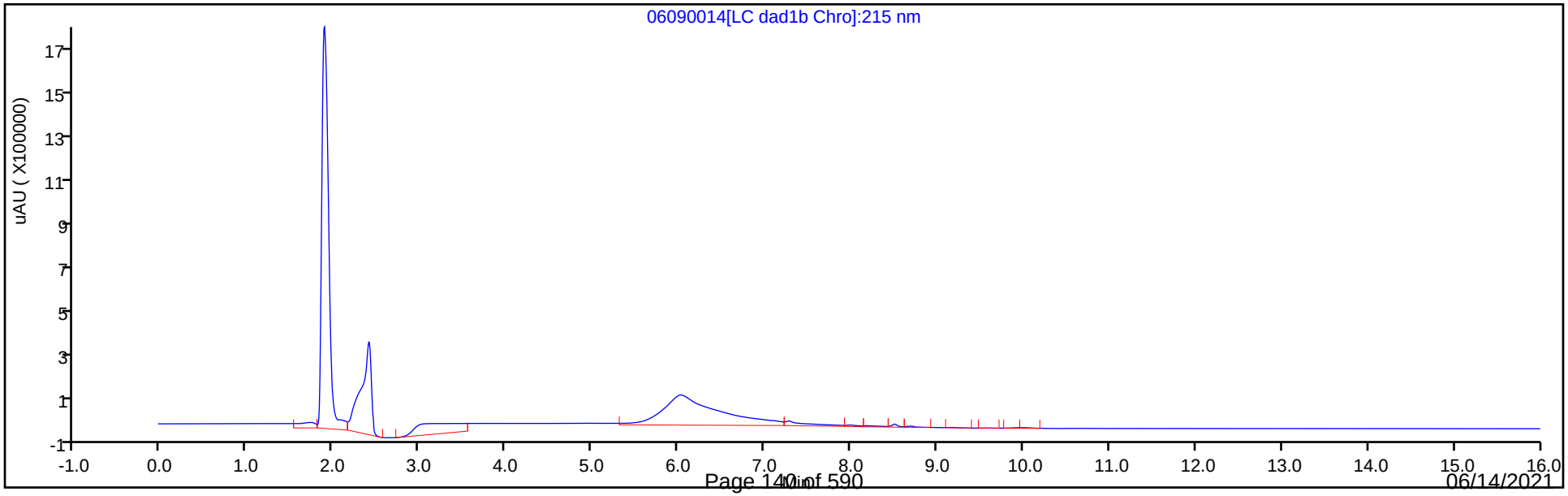
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090014.d				
Injection Date:	09-Jun-2021 17:33:44	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-1-A	Lab Sample ID:	280-149356-1	Worklist Smp#:	14
Client ID:	OS003-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090014.D				
Lims ID:	280-149356-A-1-A				
Client ID:	OS003-DP06-25				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 17:33:44	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-1-A				
Misc. Info.:	280-0102208-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 18:26:44		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1721	86.06

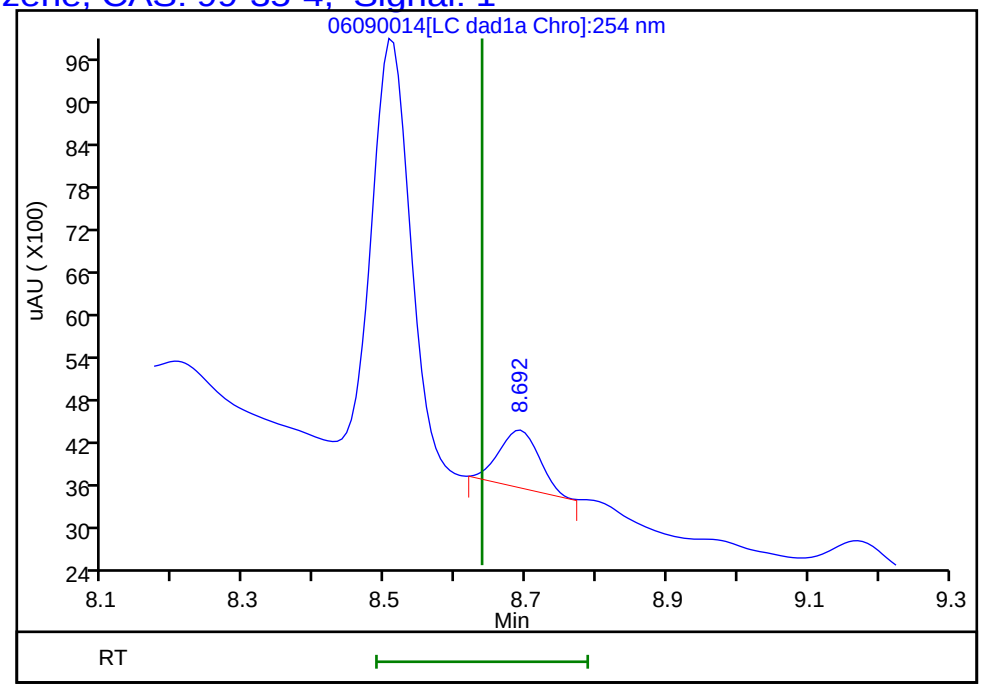
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090014.d				
Injection Date:	09-Jun-2021 17:33:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-1-A	Lab Sample ID:	280-149356-1		
Client ID:	OS003-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 8.69
Response: 3216
Amount: 0.014597



Reviewer: zhangji, 09-Jun-2021 18:26:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

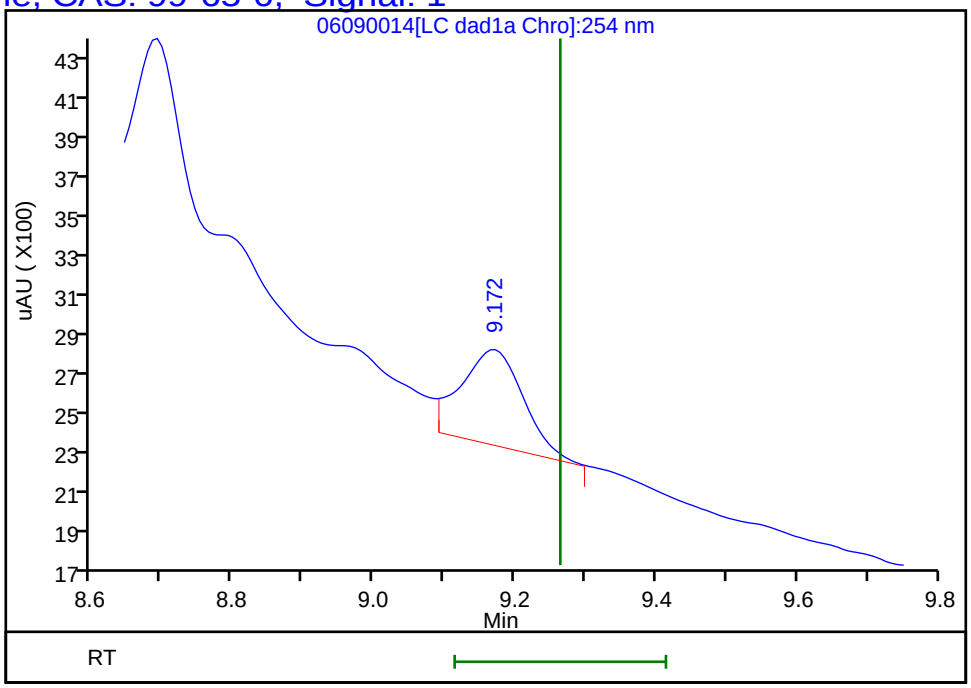
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090014.d				
Injection Date:	09-Jun-2021 17:33:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-1-A	Lab Sample ID:	280-149356-1		
Client ID:	OS003-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.17
Response: 2894
Amount: 0.009766



Reviewer: zhangji, 09-Jun-2021 18:26:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

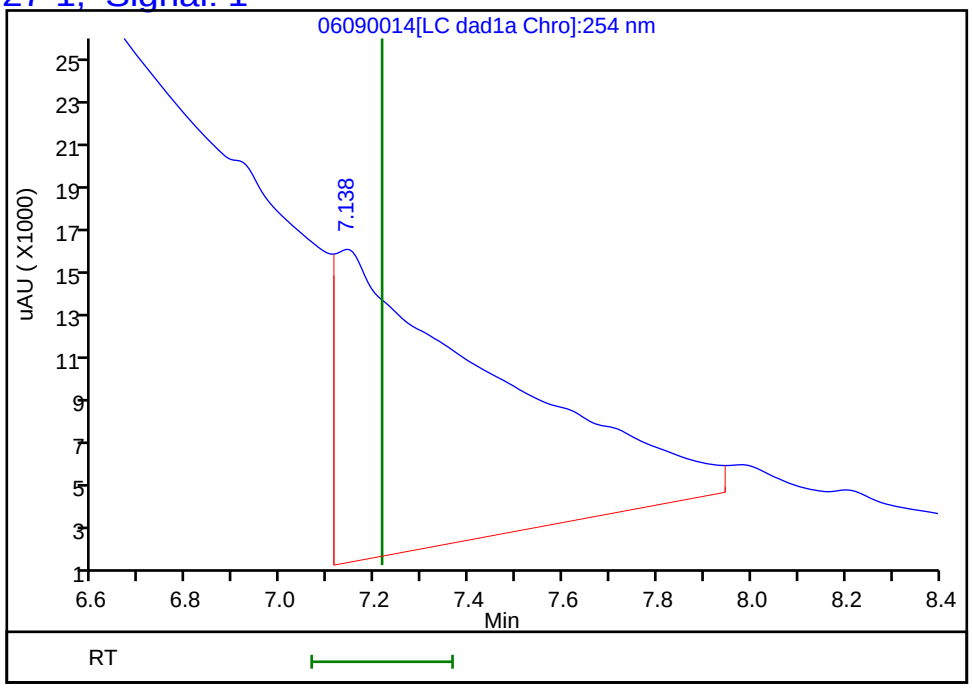
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090014.d				
Injection Date:	09-Jun-2021 17:33:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-1-A	Lab Sample ID:	280-149356-1		
Client ID:	OS003-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.14
Response: 325625
Amount: 2.498267



Reviewer: zhangji, 09-Jun-2021 18:26:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

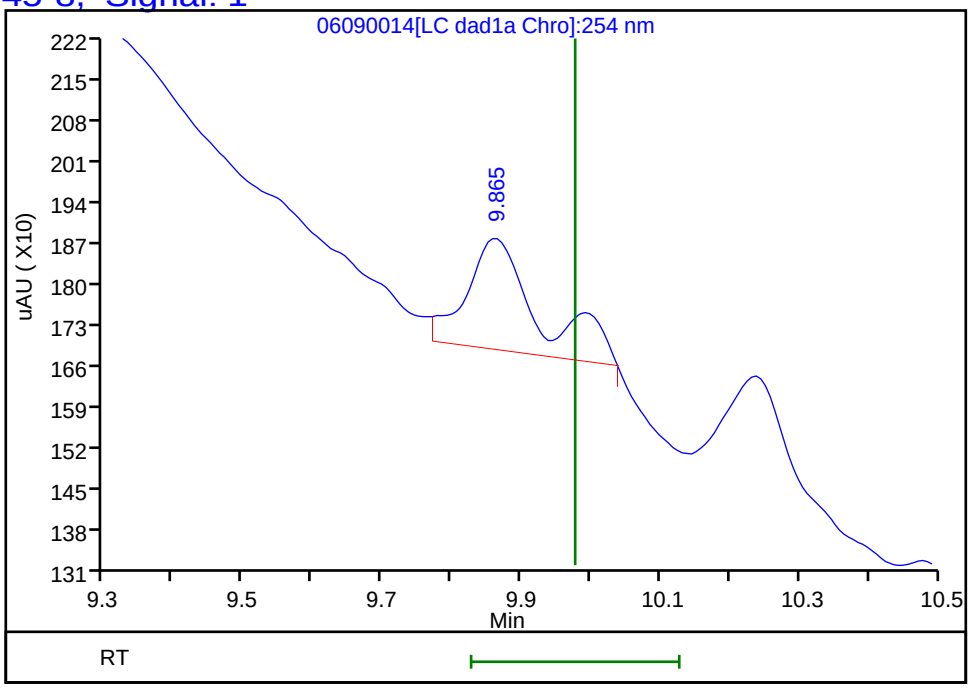
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090014.d				
Injection Date:	09-Jun-2021 17:33:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-1-A	Lab Sample ID:	280-149356-1		
Client ID:	OS003-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.86
Response: 1360
Amount: 0.007888



Reviewer: zhangji, 09-Jun-2021 18:26:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS003-DP06-35
Lab Sample ID: 280-149356-2
Matrix: Water
Lab File ID: 06090015.D
Analysis Method: 8330A
Date Collected: 06/02/2021 09:55
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 489.6(mL)
Date Analyzed: 06/09/2021 17:56
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.086
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.038
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.046
121-14-2	2,4-Dinitrotoluene	0.082	U	0.10	0.082	0.028
606-20-2	2,6-Dinitrotoluene	0.082	U	0.10	0.082	0.041
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.052
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.087
99-08-1	3-Nitrotoluene	0.41	U	0.41	0.41	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.059
99-99-0	4-Nitrotoluene	0.41	U	0.42	0.41	0.10
2691-41-0	HMX	0.20	U M	0.21	0.20	0.089
5755-27-1	MNX	0.41	U	2.0	0.41	0.16
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.093
121-82-4	RDX	0.20	U	0.21	0.20	0.053
479-45-8	Tetryl	0.10	U M	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090015.D				
Lims ID:	280-149356-B-2-A				
Client ID:	OS003-DP06-35				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 17:56:43	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-B-2-A				
Misc. Info.:	280-0102208-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 18:26:52		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.611			ND	U
6 MNX	1		7.214			ND	
7 RDX	1		7.584			ND	
$ 9 1,2-Dinitrobenzene	1	8.511	8.511	0.000	24493	0.1910	
10 1,3,5-Trinitrobenzene	1		8.637			ND	
11 1,3-Dinitrobenzene	1		9.264			ND	7
12 Nitrobenzene	1		9.651			ND	
14 Tetryl	1		9.977			ND	U
16 2,4,6-Trinitrotoluene	1		10.897			ND	7
17 4-Amino-2,6-dinitrotoluene	1		11.104			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.364			ND	
19 2,6-Dinitrotoluene	1		11.531			ND	
20 2,4-Dinitrotoluene	1		11.704			ND	
21 o-Nitrotoluene	1		12.571			ND	
22 p-Nitrotoluene	1		13.011			ND	7
23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

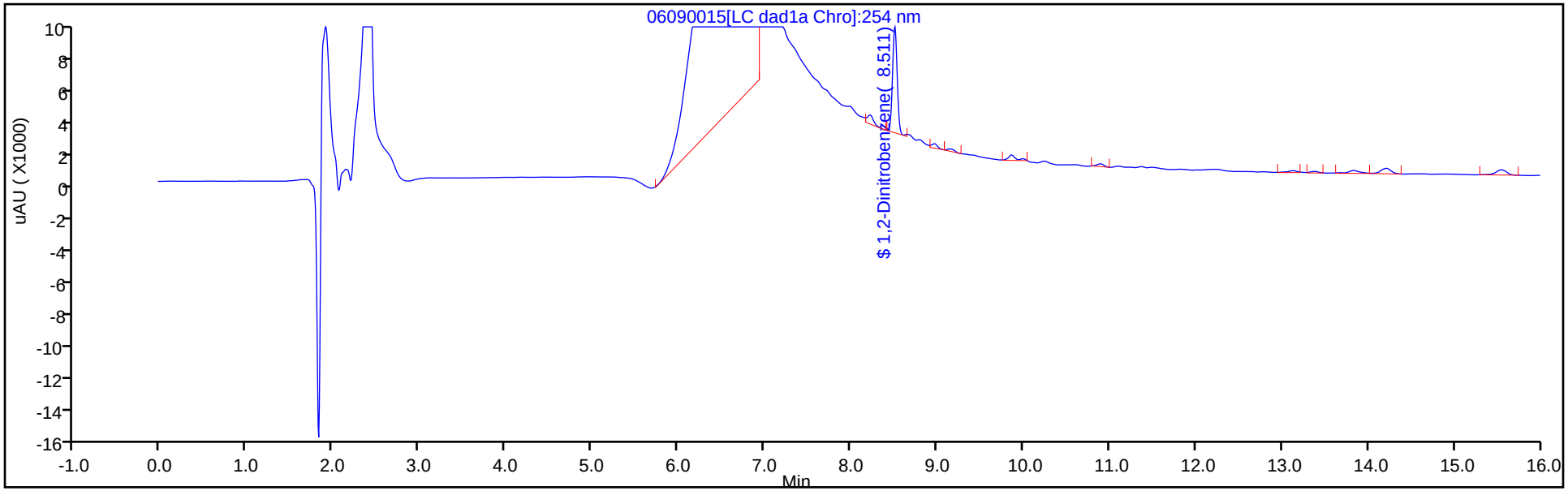
Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:03 Chrom Revision: 2.3 13-May-2021 07:57:40

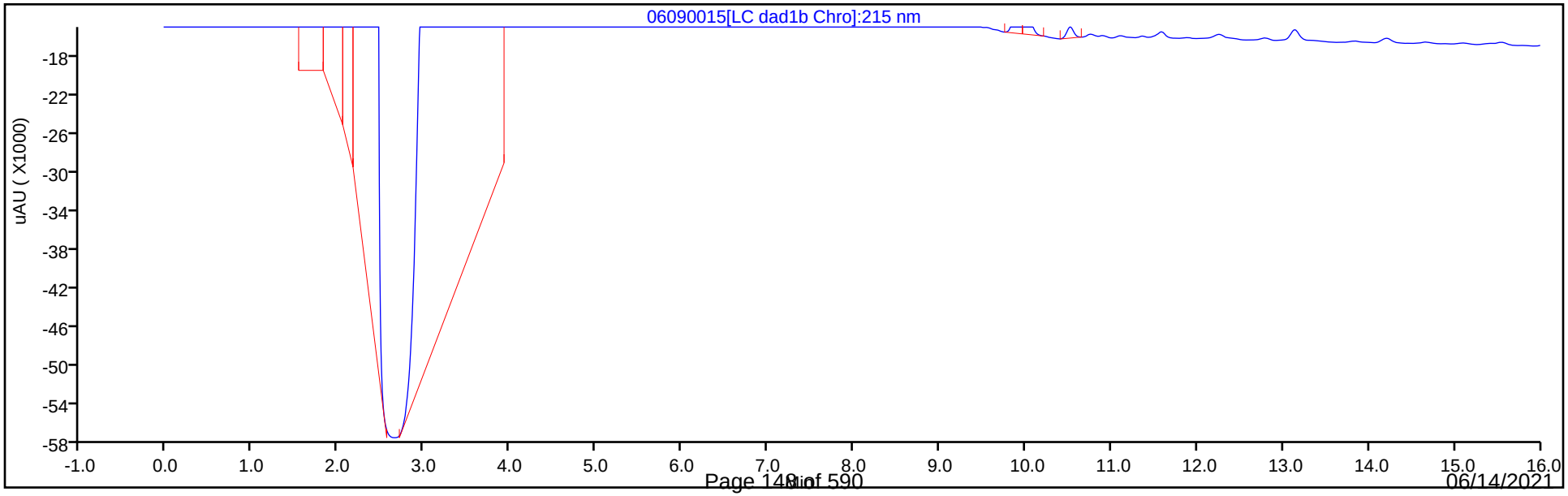
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090015.d				
Injection Date:	09-Jun-2021 17:56:43	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-B-2-A	Lab Sample ID:	280-149356-2	Worklist Smp#:	15
Client ID:	OS003-DP06-35				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090015.D				
Lims ID:	280-149356-B-2-A				
Client ID:	OS003-DP06-35				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 17:56:43	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-B-2-A				
Misc. Info.:	280-0102208-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1633	

First Level Reviewer: zhangji Date: 09-Jun-2021 18:26:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1910	95.51

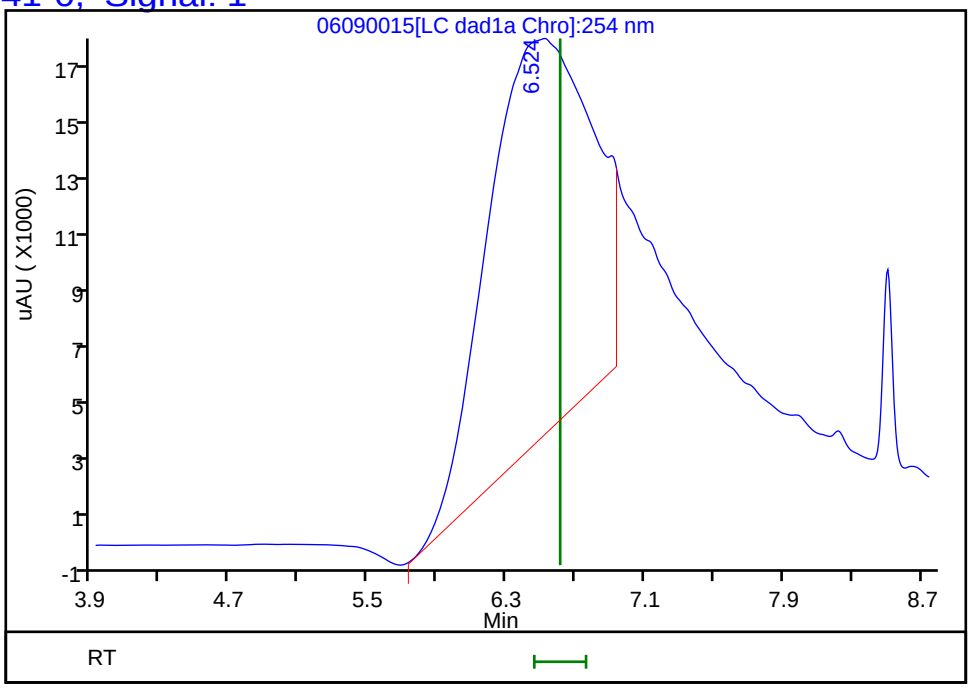
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090015.d				
Injection Date:	09-Jun-2021 17:56:43	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-B-2-A	Lab Sample ID:	280-149356-2		
Client ID:	OS003-DP06-35				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.52
Response: 565806
Amount: 6.702160



Reviewer: zhangji, 09-Jun-2021 18:26:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

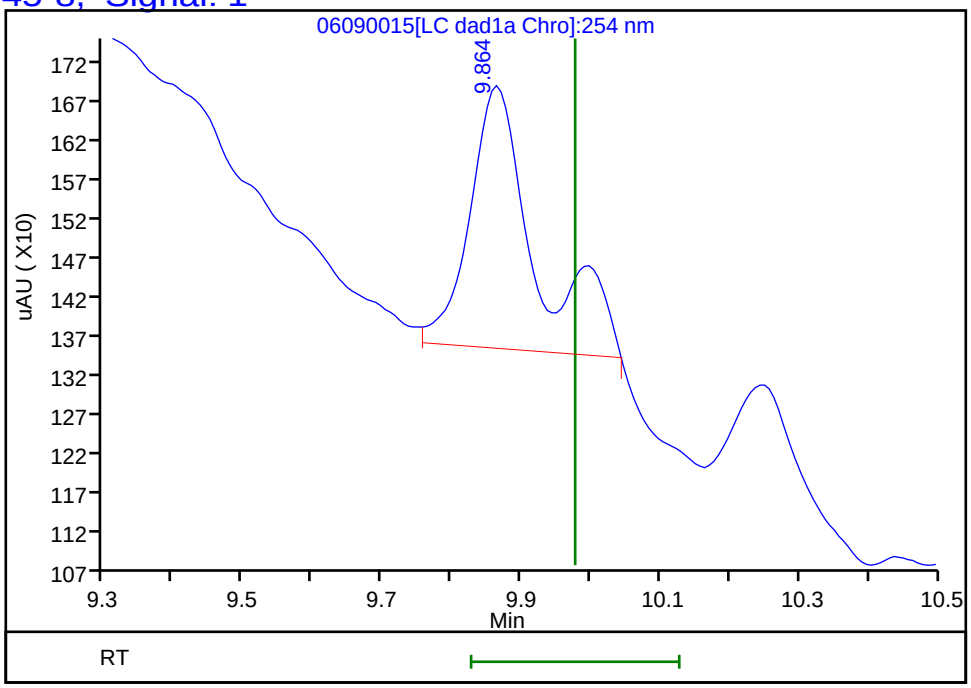
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090015.d				
Injection Date:	09-Jun-2021 17:56:43	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-B-2-A	Lab Sample ID:	280-149356-2		
Client ID:	OS003-DP06-35				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.86
Response: 2175
Amount: 0.012615



Reviewer: zhangji, 09-Jun-2021 18:26:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS003-DP06-45
Lab Sample ID: 280-149356-3
Matrix: Water
Lab File ID: 06090016.D
Analysis Method: 8330A
Date Collected: 06/02/2021 10:40
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 500.6(mL)
Date Analyzed: 06/09/2021 18:19
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U J1	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U J1	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U J1	0.21	0.20	0.085
99-08-1	3-Nitrotoluene	0.40	U J1	0.40	0.40	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U J1	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U J1	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.087
5755-27-1	MNX	0.40	U	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
121-82-4	RDX	0.20	U	0.21	0.20	0.051
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090016.D
Lims ID: 280-149356-A-3-A
Client ID: OS003-DP06-45
Sample Type: Client
Inject. Date: 09-Jun-2021 18:19:39 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-149356-A-3-A
Misc. Info.: 280-0102208-016
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:01 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 09-Jun-2021 18:47:28

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
26 Triamine Trinitrobenzene	1		2.474			ND	
1 2,6-diamino-4-nitrotoluene	1		6.490			ND	
2 TNX	1		6.494			ND	U
3 HMX	1		6.611			ND	
4 2,4-diamino-6-nitrotoluene	1		6.663			ND	
5 DNX	1		6.808			ND	
6 MNX	1		7.214			ND	
7 RDX	1		7.584			ND	
8 2,4,6-Trinitrophenol	1		7.944			ND	
$ 9 1,2-Dinitrobenzene	1	8.514	8.511	0.003	24659	0.1923	
10 1,3,5-Trinitrobenzene	1		8.637			ND	
11 1,3-Dinitrobenzene	1		9.264			ND	
12 Nitrobenzene	1		9.651			ND	
13 3,5-Dinitroaniline	1		9.863			ND	
14 Tetryl	1		9.977			ND	7
15 Nitroglycerin	2		10.437			ND	
16 2,4,6-Trinitrotoluene	1		10.897			ND	
17 4-Amino-2,6-dinitrotoluene	1		11.104			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.364			ND	
19 2,6-Dinitrotoluene	1		11.531			ND	
20 2,4-Dinitrotoluene	1		11.704			ND	
21 o-Nitrotoluene	1		12.571			ND	
22 p-Nitrotoluene	1		13.011			ND	
23 m-Nitrotoluene	1		13.597			ND	
24 PETN	2		14.697			ND	
25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

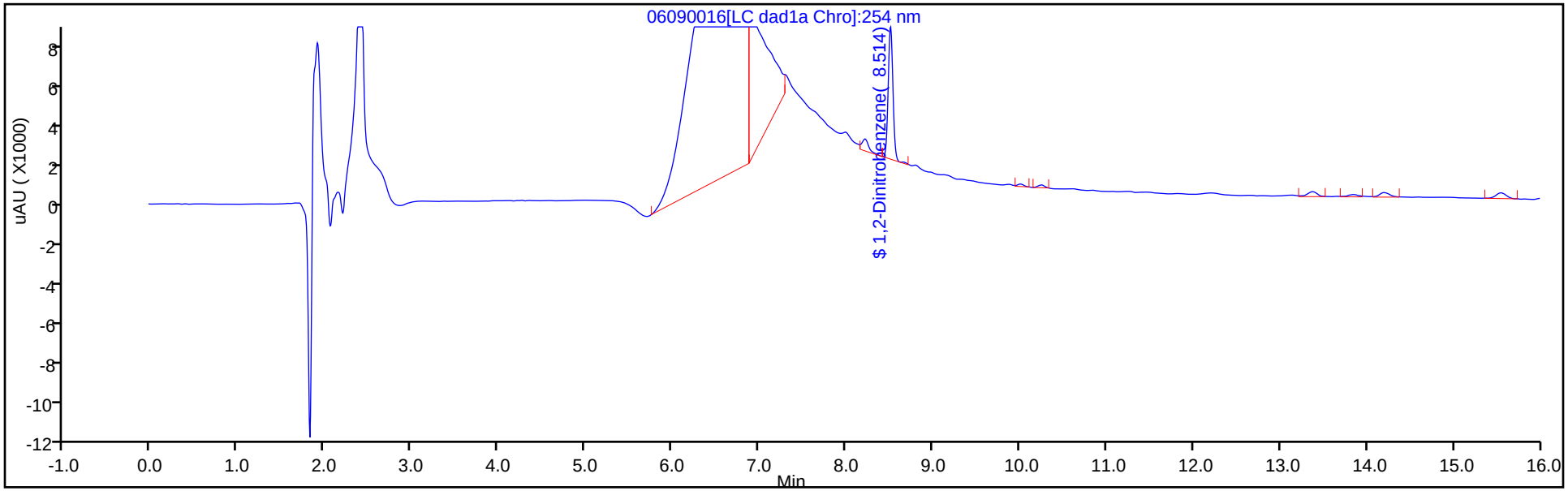
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:04 Chrom Revision: 2.3 13-May-2021 07:57:40

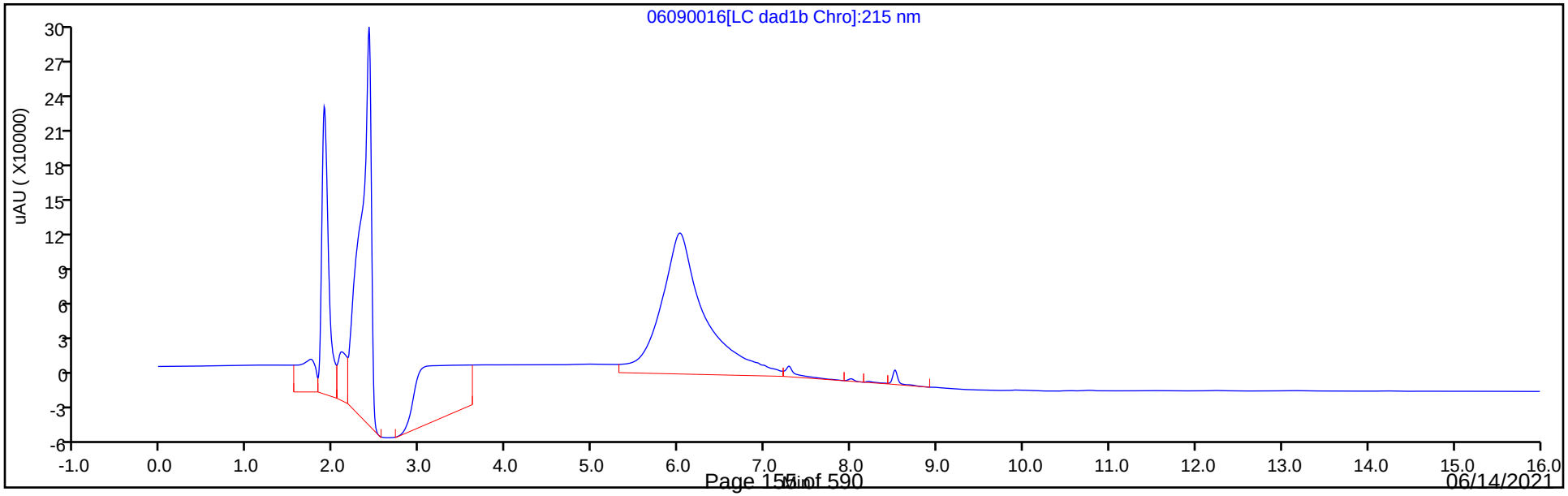
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090016.d				
Injection Date:	09-Jun-2021 18:19:39	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-3-A	Lab Sample ID:	280-149356-3	Worklist Smp#:	16
Client ID:	OS003-DP06-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090016.D				
Lims ID:	280-149356-A-3-A				
Client ID:	OS003-DP06-45				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 18:19:39	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-3-A				
Misc. Info.:	280-0102208-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 18:47:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1923	96.16

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS001-DP06-25
Lab Sample ID: 280-149356-4
Matrix: Water
Lab File ID: 06090023.D
Analysis Method: 8330A
Date Collected: 06/02/2021 11:45
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 504.1(mL)
Date Analyzed: 06/09/2021 21:00
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.84	M	0.21	0.20	0.083
99-65-0	1,3-Dinitrobenzene	0.099	U M	0.11	0.099	0.037
606-20-2	2,6-Dinitrotoluene	0.079	U	0.099	0.079	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	2.3		0.11	0.099	0.050
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.085
99-08-1	3-Nitrotoluene	0.40	U	0.40	0.40	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	1.8		0.15	0.12	0.057
99-99-0	4-Nitrotoluene	0.40	U M	0.41	0.40	0.099
5755-27-1	MNX	0.40	U M	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.090
121-82-4	RDX	0.40	M J1	0.21	0.20	0.051
479-45-8	Tetryl	0.099	U M	0.11	0.099	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	91	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090023.D
Lims ID: 280-149356-A-4-A
Client ID: OS001-DP06-25
Sample Type: Client
Inject. Date: 09-Jun-2021 21:00:33 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-149356-A-4-A
Misc. Info.: 280-0102208-023
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:07 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 10-Jun-2021 12:54:30

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.603	6.611	-0.008	2330	0.0276	M
6 MNX	1		7.214			ND	U
7 RDX	1	7.576	7.584	-0.008	4282	0.0403	M
$ 9 1,2-Dinitrobenzene	1	8.503	8.511	-0.008	23338	0.1820	M
10 1,3,5-Trinitrobenzene	1	8.636	8.637	-0.001	18765	0.0852	M
11 1,3-Dinitrobenzene	1		9.264			ND	U
12 Nitrobenzene	1		9.651			ND	
14 Tetryl	1		9.977			ND	U
16 2,4,6-Trinitrotoluene	1	10.896	10.897	-0.001	538075	2.61	E
17 4-Amino-2,6-dinitrotoluene	1	11.096	11.104	-0.008	27415	0.1795	
18 2-Amino-4,6-dinitrotoluene	1	11.356	11.364	-0.008	48020	0.2321	
19 2,6-Dinitrotoluene	1		11.531			ND	
20 2,4-Dinitrotoluene	1	11.689	11.704	-0.015	757	0.002638	7M
21 o-Nitrotoluene	1		12.571			ND	
22 p-Nitrotoluene	1		13.011			ND	U
23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount
- 7 - Failed Limit of Detection

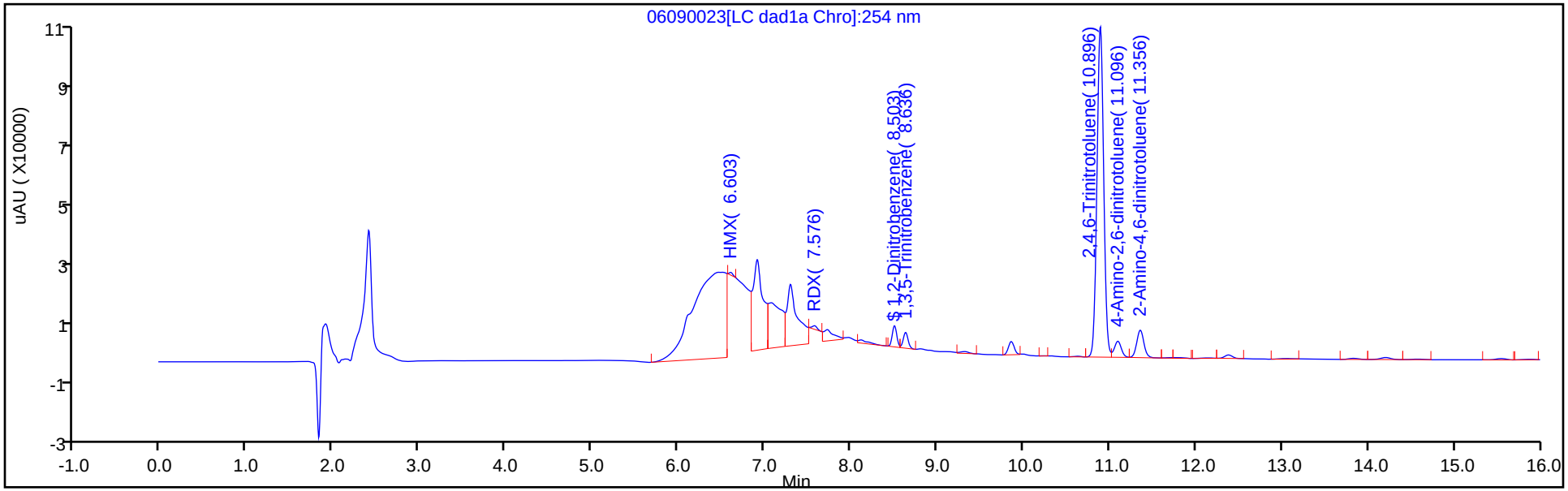
Review Flags
- M - Manually Integrated
- U - Marked Undetected

Report Date: 10-Jun-2021 13:30:08 Chrom Revision: 2.3 13-May-2021 07:57:40

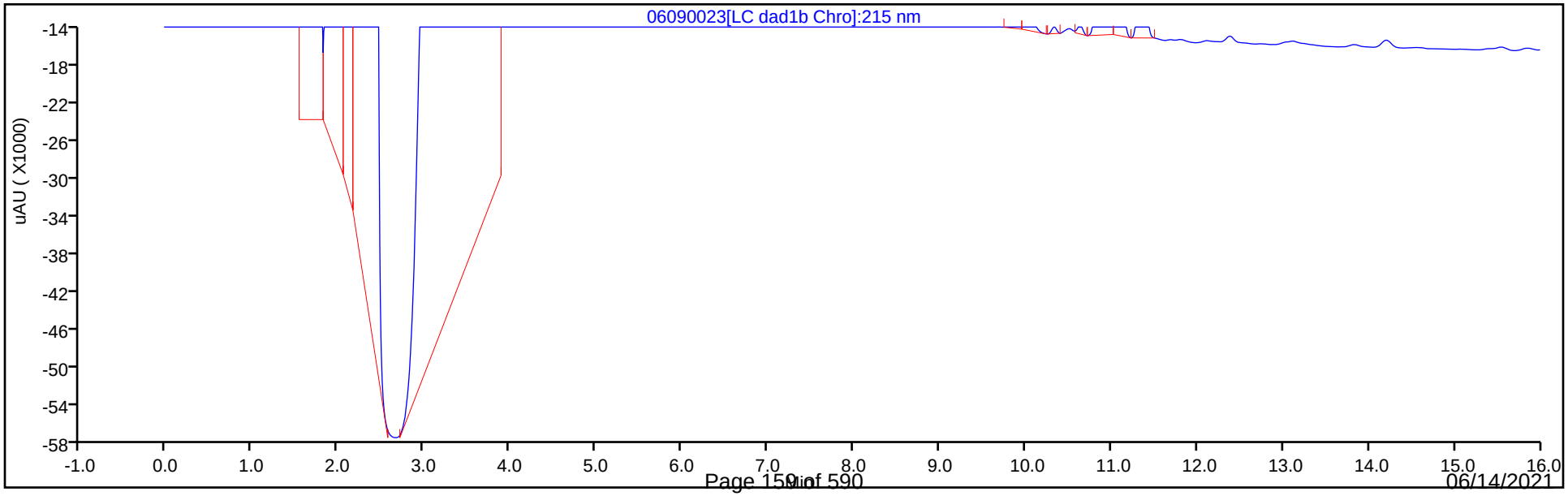
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4	Worklist Smp#:	23
Client ID:	OS001-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090023.D				
Lims ID:	280-149356-A-4-A				
Client ID:	OS001-DP06-25				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 21:00:33	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-4-A				
Misc. Info.:	280-0102208-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1633	

First Level Reviewer: zhangji Date: 10-Jun-2021 12:54:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1820	91.01

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

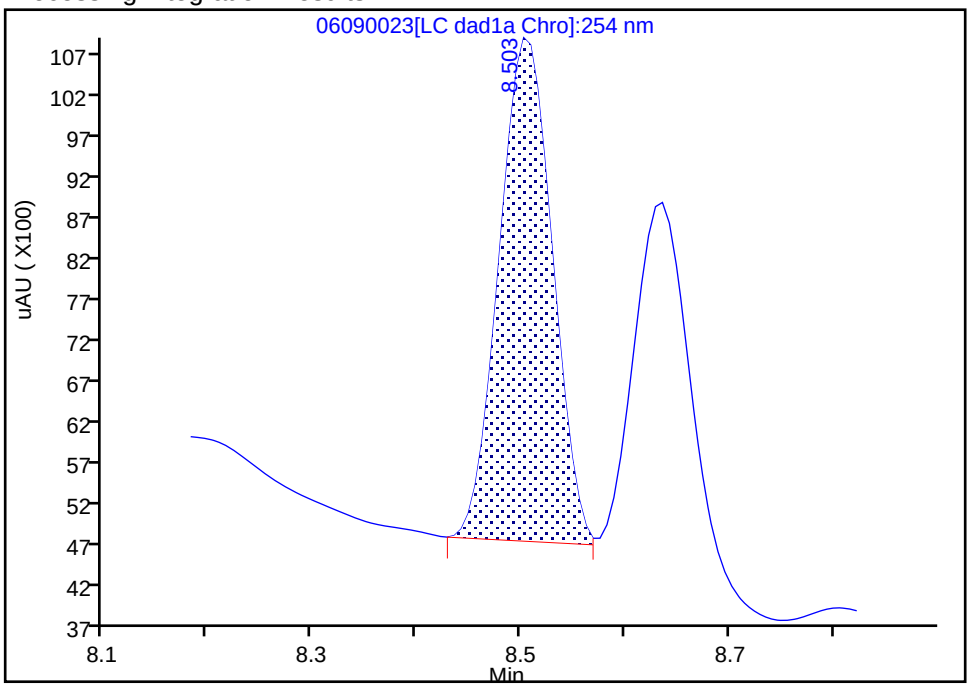
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

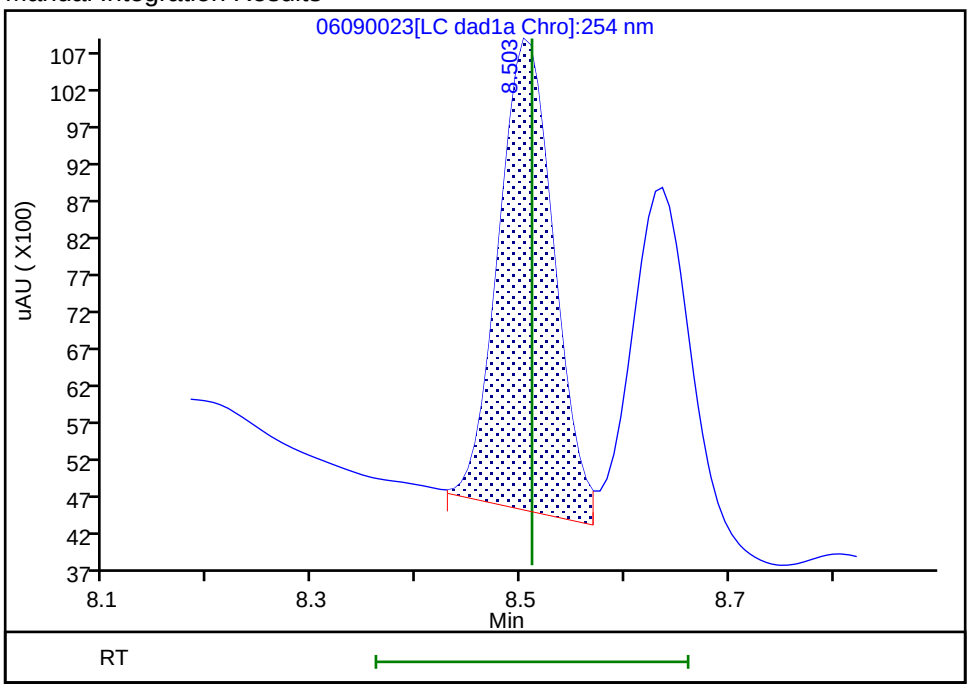
Processing Integration Results

RT: 8.50
Area: 21578
Amount: 0.168293
Amount Units: ug/mL



Manual Integration Results

RT: 8.50
Area: 23338
Amount: 0.182019
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:53:56
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

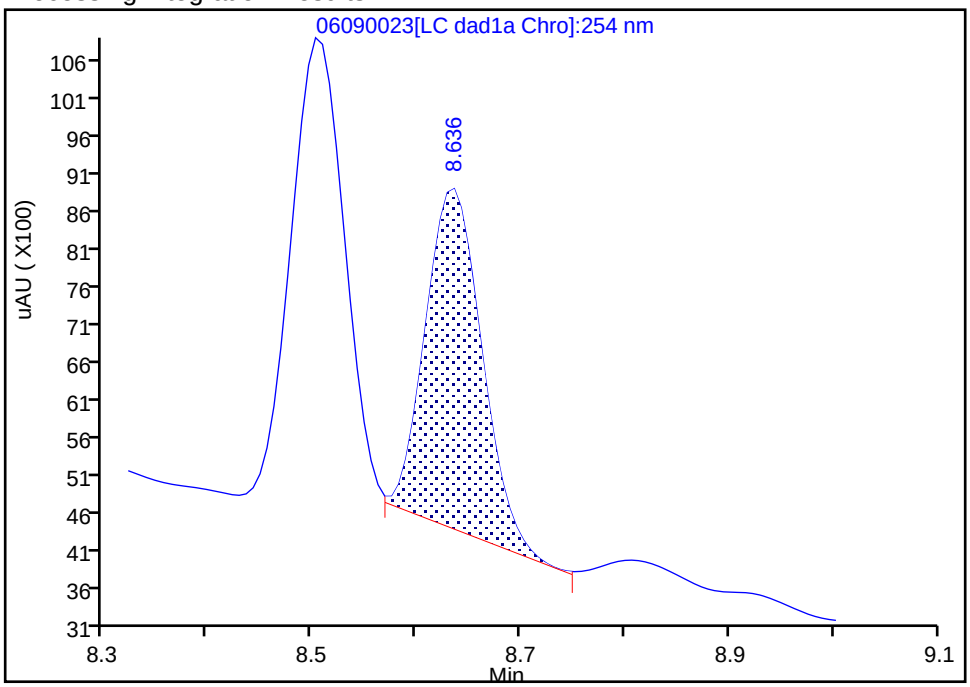
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

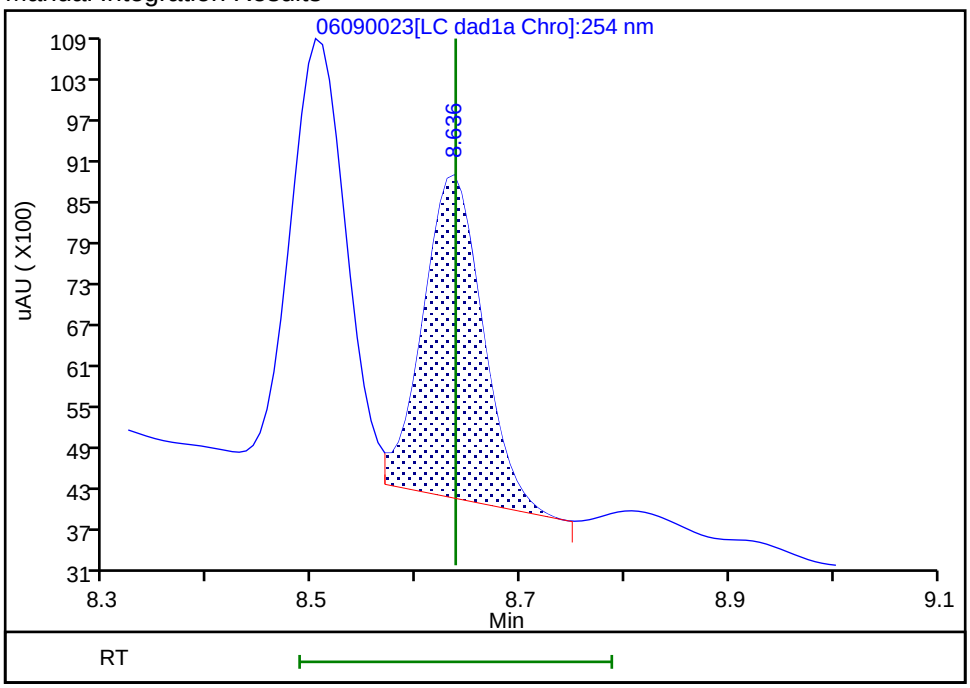
Processing Integration Results

RT: 8.64
Area: 16913
Amount: 0.076767
Amount Units: ug/mL



Manual Integration Results

RT: 8.64
Area: 18765
Amount: 0.085173
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:53:56
Audit Action: Assigned New Baseline Audit Reason: Baseline

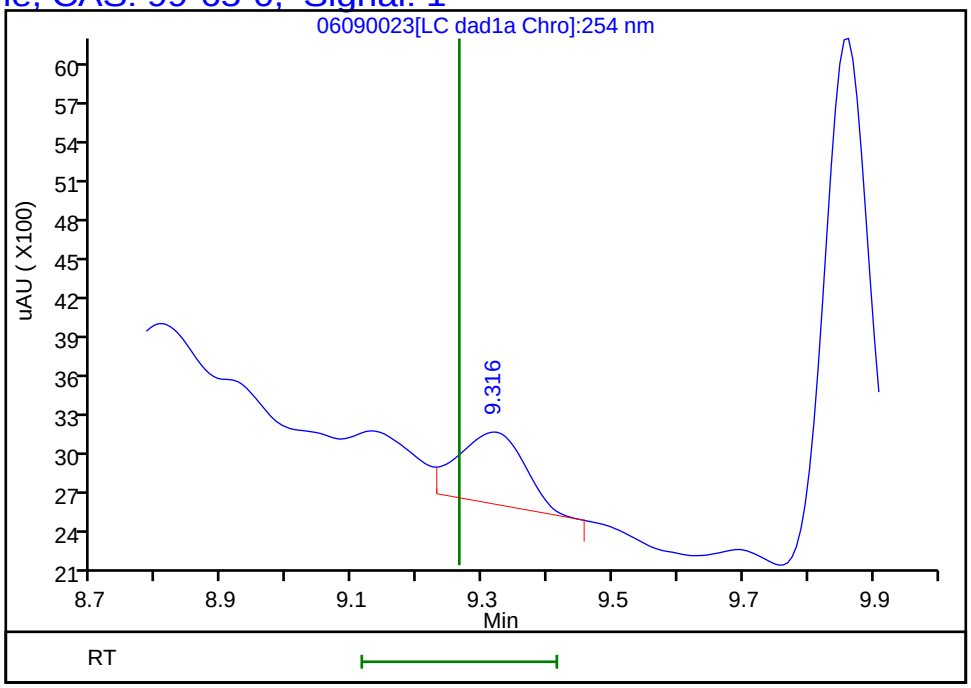
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.32
Response: 3821
Amount: 0.012894



Reviewer: zhangji, 10-Jun-2021 12:54:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

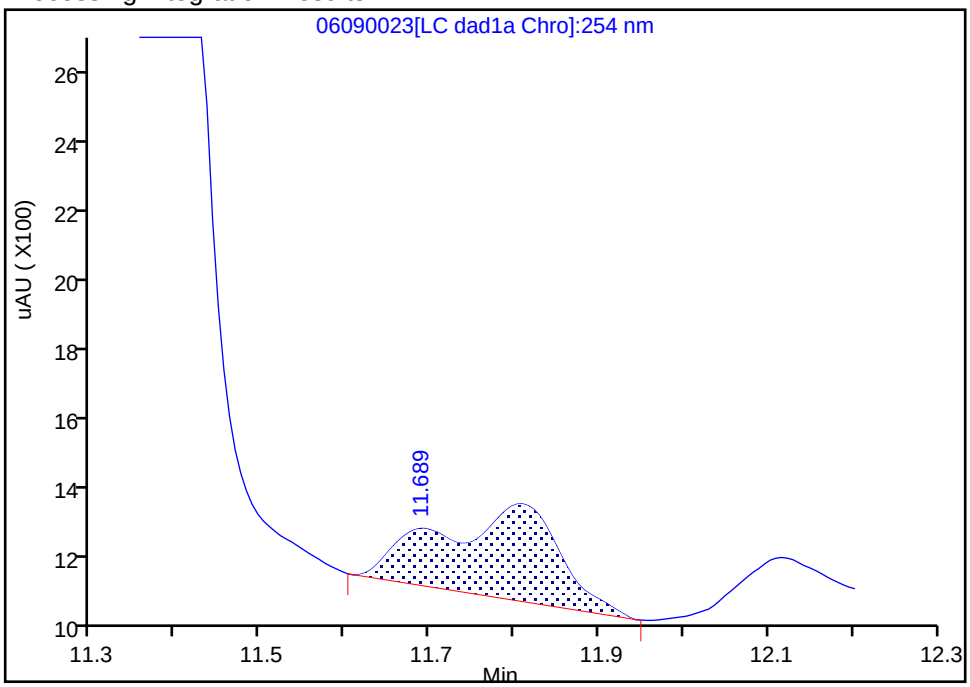
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

20 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

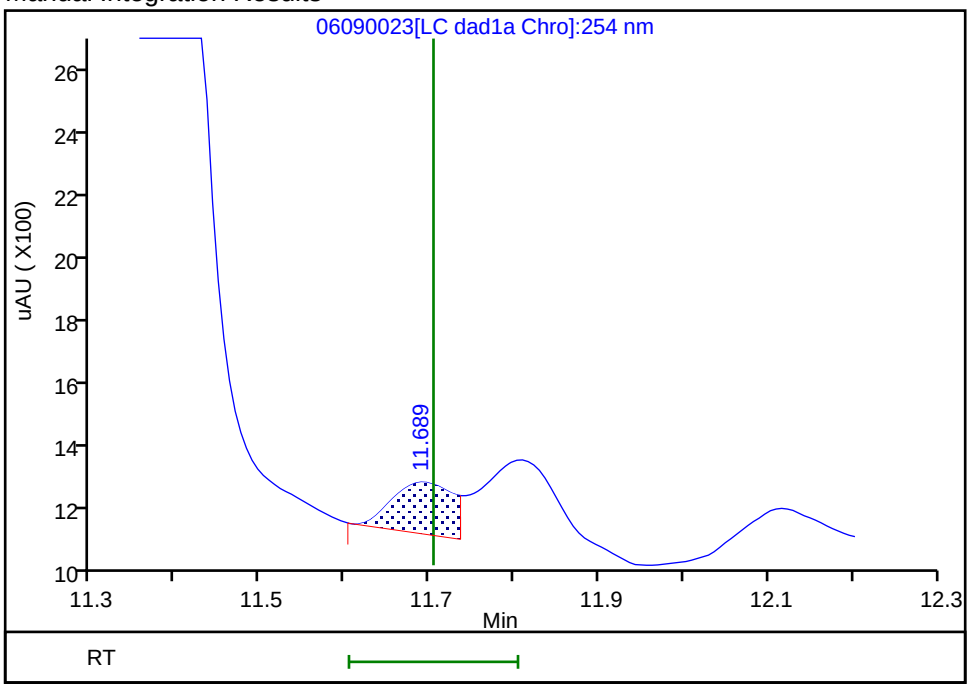
Processing Integration Results

RT: 11.69
Area: 2463
Amount: 0.008582
Amount Units: ug/mL



Manual Integration Results

RT: 11.69
Area: 757
Amount: 0.002638
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:54:16

Audit Action: Split an Integrated Peak Audit Reason: Baseline

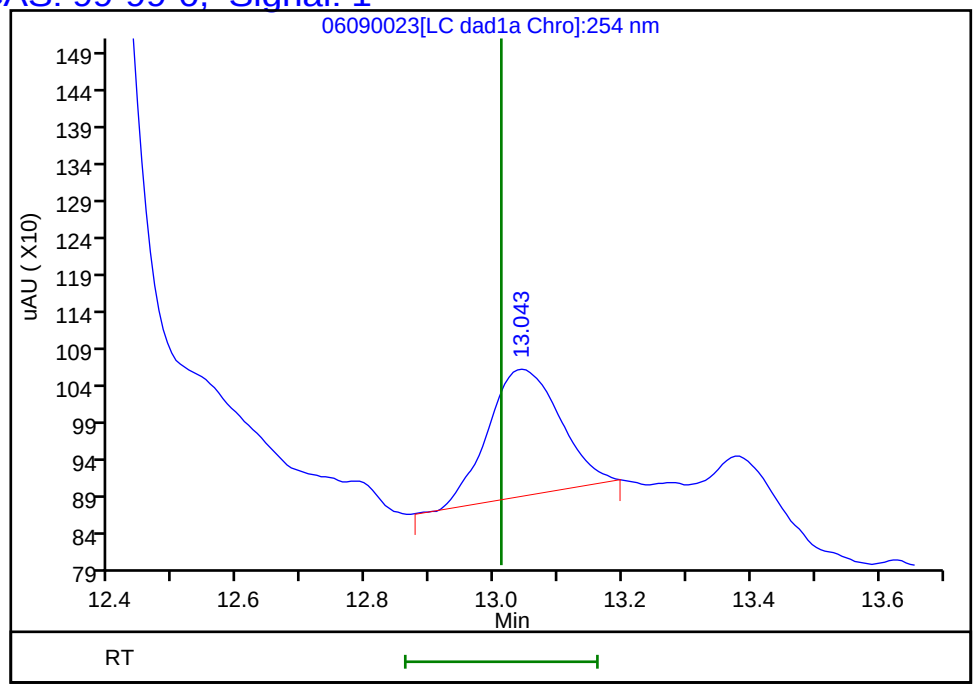
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.04
Response: 1353
Amount: 0.012090



Reviewer: zhangji, 10-Jun-2021 12:54:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

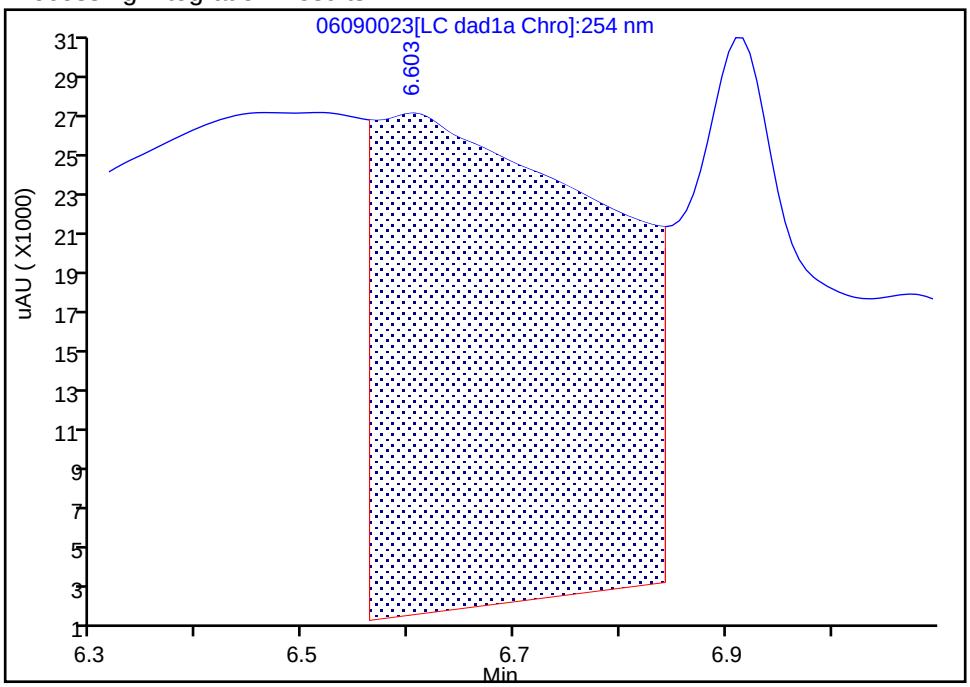
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

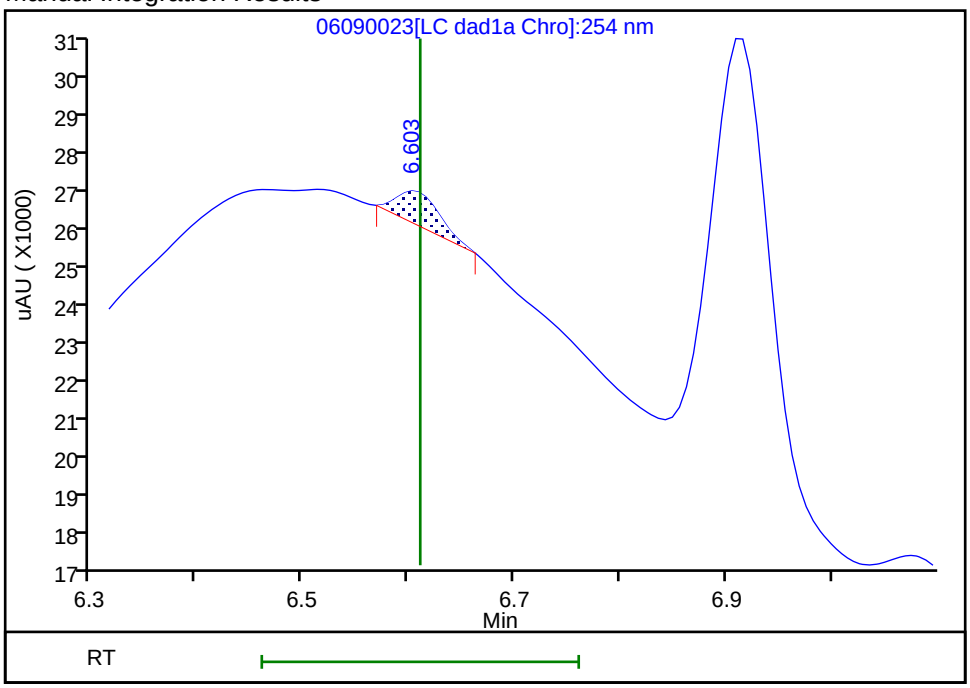
Processing Integration Results

RT: 6.60
Area: 367813
Amount: 4.356867
Amount Units: ug/mL



Manual Integration Results

RT: 6.60
Area: 2330
Amount: 0.027600
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:53:40
Audit Action: Manually Integrated Audit Reason: Baseline

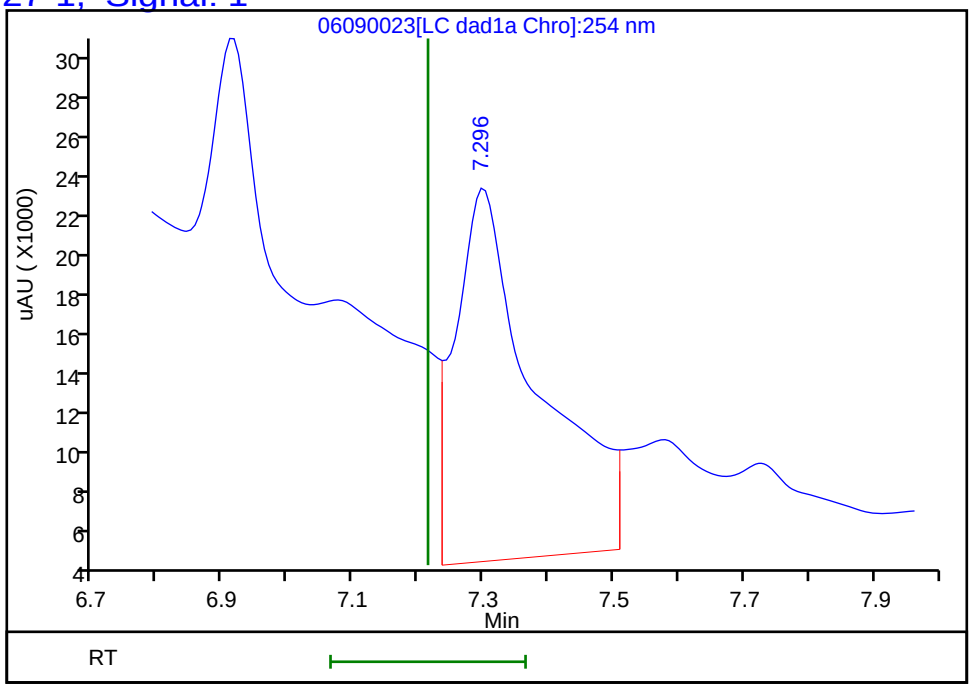
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.30
Response: 160665
Amount: 1.232658



Reviewer: zhangji, 10-Jun-2021 12:54:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

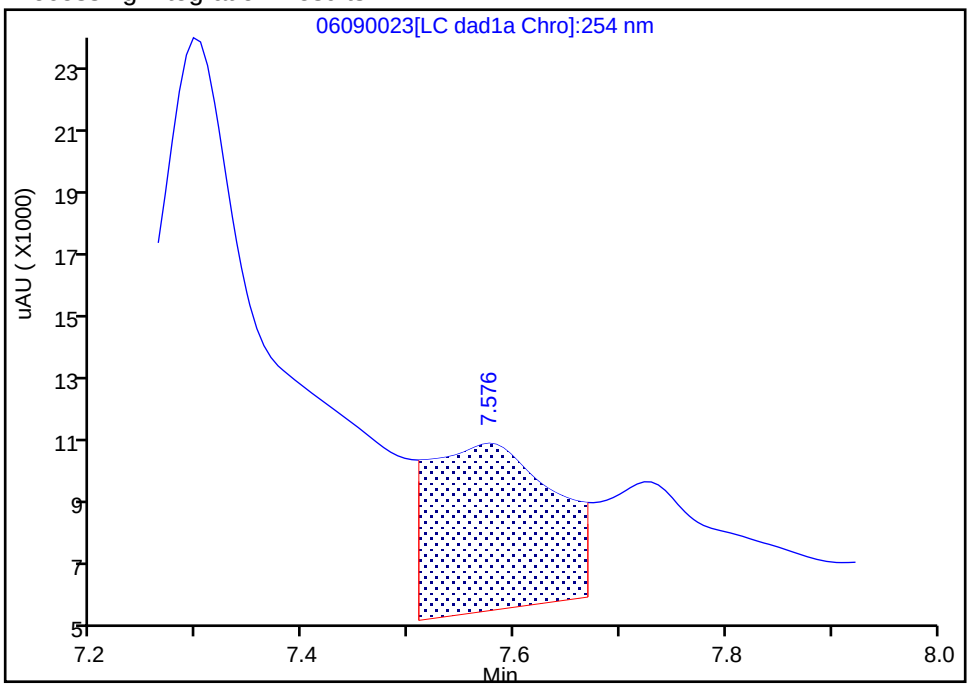
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

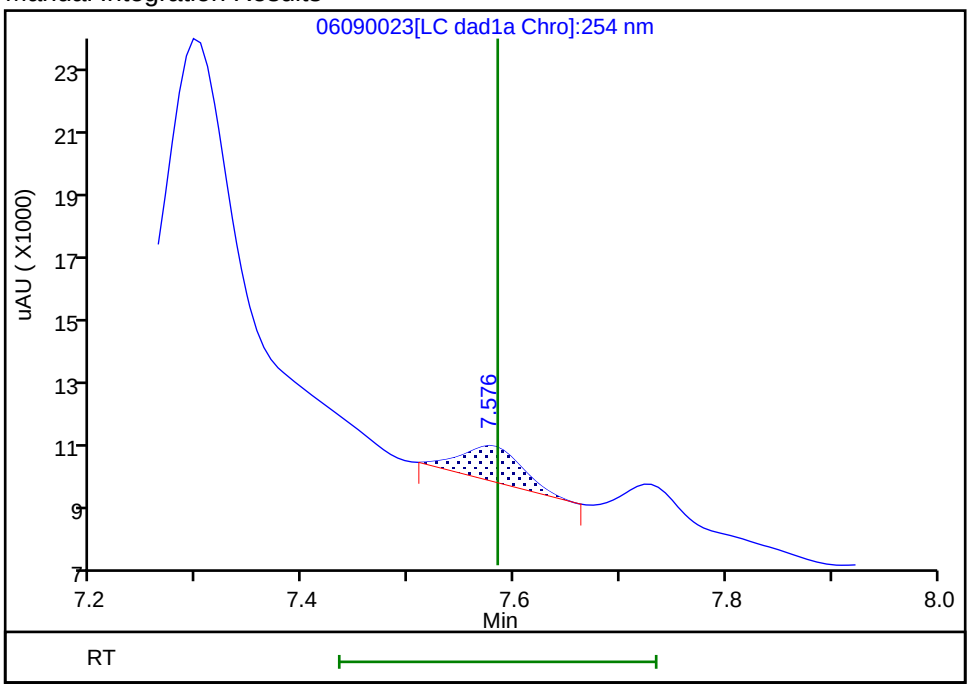
Processing Integration Results

RT: 7.58
Area: 41434
Amount: 0.389925
Amount Units: ug/mL



Manual Integration Results

RT: 7.58
Area: 4282
Amount: 0.040297
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:53:46
Audit Action: Manually Integrated Audit Reason: Baseline

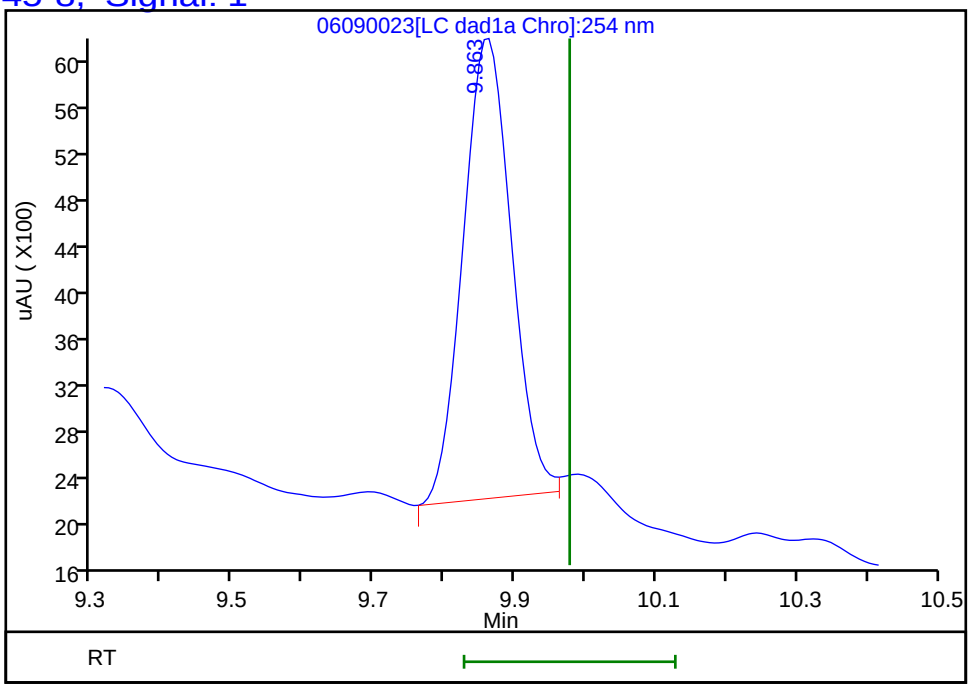
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090023.d				
Injection Date:	09-Jun-2021 21:00:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.86
Response: 18796
Amount: 0.109013



Reviewer: zhangji, 10-Jun-2021 12:54:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS001-DP06-25
Lab Sample ID: 280-149356-4
Matrix: Water
Lab File ID: 06100014.D
Analysis Method: 8330A
Date Collected: 06/02/2021 11:45
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 504.1(mL)
Date Analyzed: 06/10/2021 20:47
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539386
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-14-2	2,4-Dinitrotoluene	0.079	U	0.099	0.079	0.027
2691-41-0	HMX	0.20	U	0.21	0.20	0.087
121-82-4	*RDX*	*0.19*	*J M J1*	*0.21*	0.20	*0.051*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	99	*M*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100014.D				
Lims ID:	280-149356-A-4-A				
Client ID:	OS001-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 20:47:34	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-4-A				
Misc. Info.:	280-0102249-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				

First Level Reviewer: zhangji Date: 11-Jun-2021 12:36:08

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		6.646			ND	
7 MNX	1	7.437	7.429	0.008	5220	0.0197	M
8 RDX	1	8.791	8.813	-0.022	3885	0.0190	M
9 Nitrobenzene	1		11.859			ND	
$ 10 1,2-Dinitrobenzene	1	12.924	12.952	-0.028	52623	0.1981	M
12 1,3-Dinitrobenzene	1		15.372			ND	7
14 o-Nitrotoluene	1		16.599			ND	U
15 p-Nitrotoluene	1		16.886			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.304	17.346	-0.042	68045	0.2293	
17 m-Nitrotoluene	1		17.859			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.210	18.246	-0.036	102523	0.2598	
19 1,3,5-Trinitrobenzene	1	18.750	18.772	-0.022	46808	0.1072	
20 2,6-Dinitrotoluene	1		20.012			ND	
21 2,4-Dinitrotoluene	1		20.486			ND	
22 Tetryl	1		24.113			ND	
23 2,4,6-Trinitrotoluene	1	25.031	25.093	-0.062	1022278	2.75	E

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount
- 7 - Failed Limit of Detection

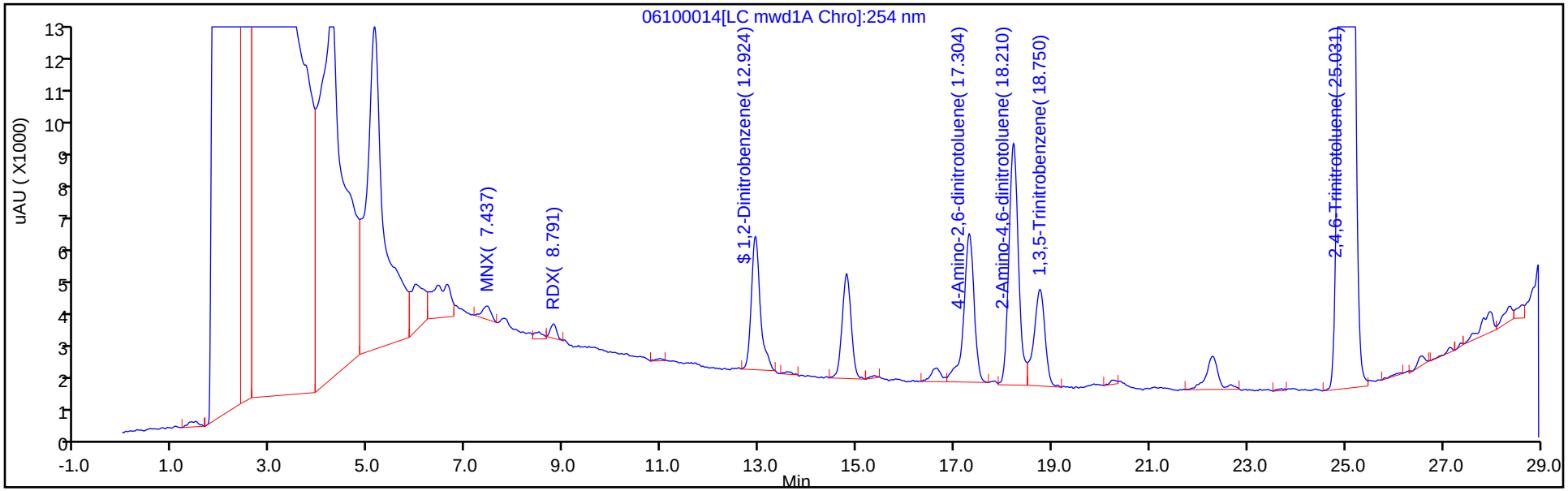
Review Flags
- M - Manually Integrated
- U - Marked Undetected

Report Date: 11-Jun-2021 12:42:20 Chrom Revision: 2.3 13-May-2021 07:57:40

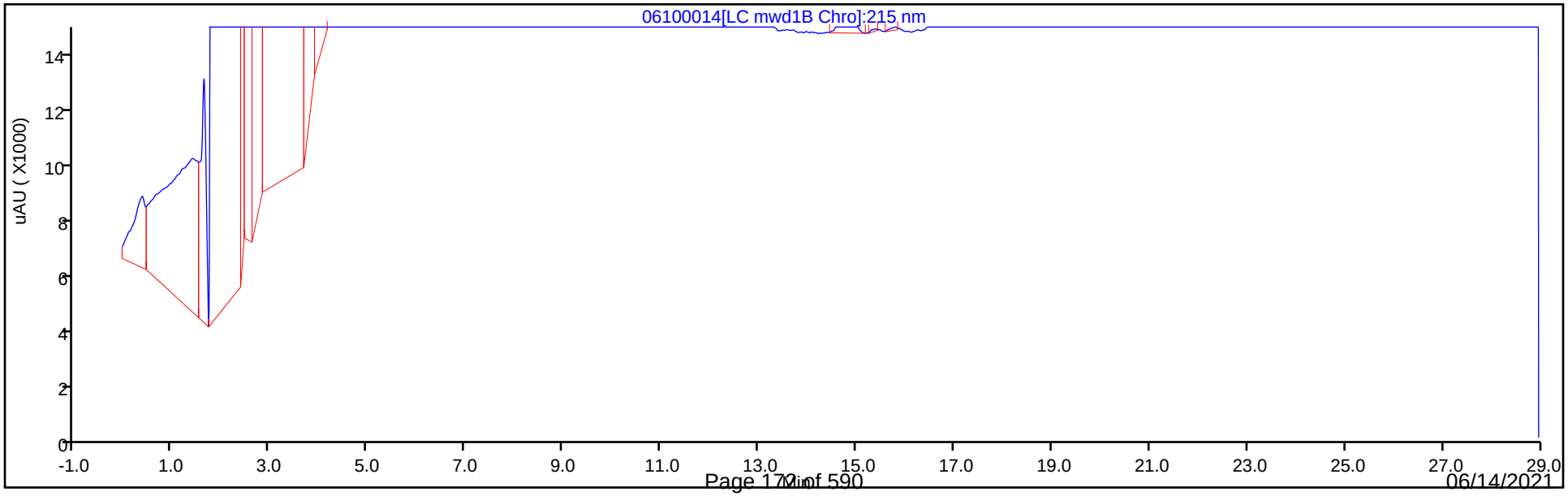
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100014.D				
Injection Date:	10-Jun-2021 20:47:34	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4	Worklist Smp#:	14
Client ID:	OS001-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100014.D				
Lims ID:	280-149356-A-4-A				
Client ID:	OS001-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 20:47:34	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-4-A				
Misc. Info.:	280-0102249-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				

First Level Reviewer: zhangji Date: 11-Jun-2021 12:36:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1981	99.04

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

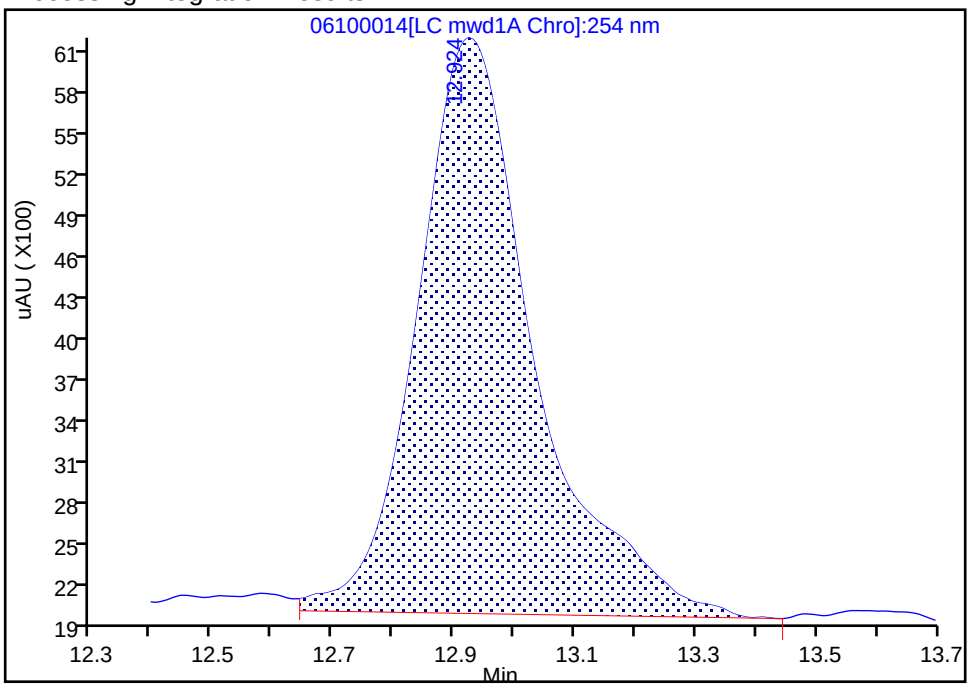
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100014.D				
Injection Date:	10-Jun-2021 20:47:34	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

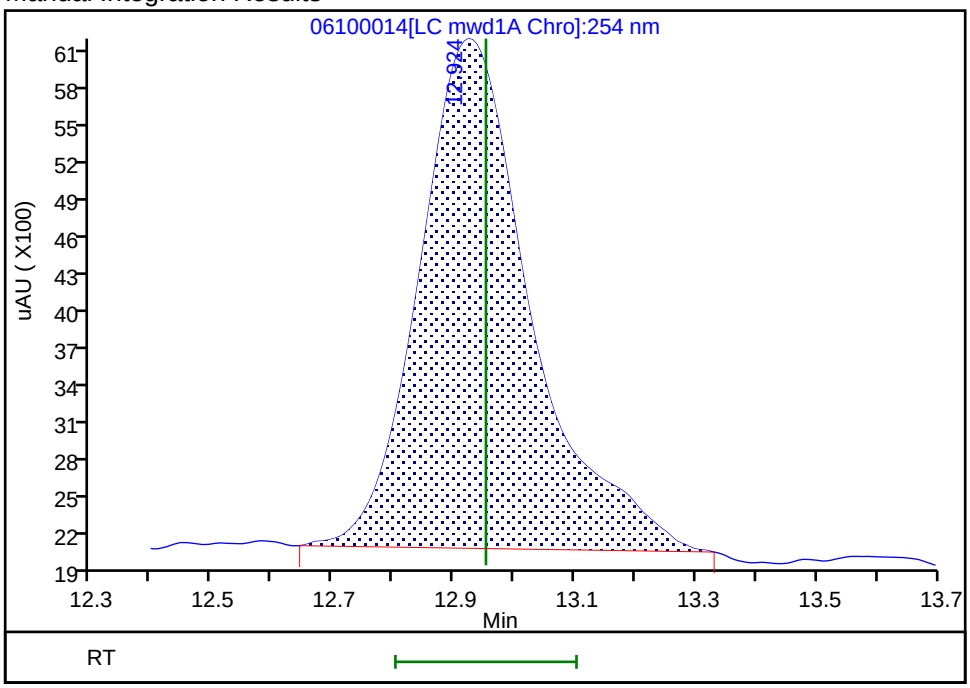
Processing Integration Results

RT: 12.92
Area: 56317
Amount: 0.211990
Amount Units: ug/ml



Manual Integration Results

RT: 12.92
Area: 52623
Amount: 0.198085
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:35:56

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

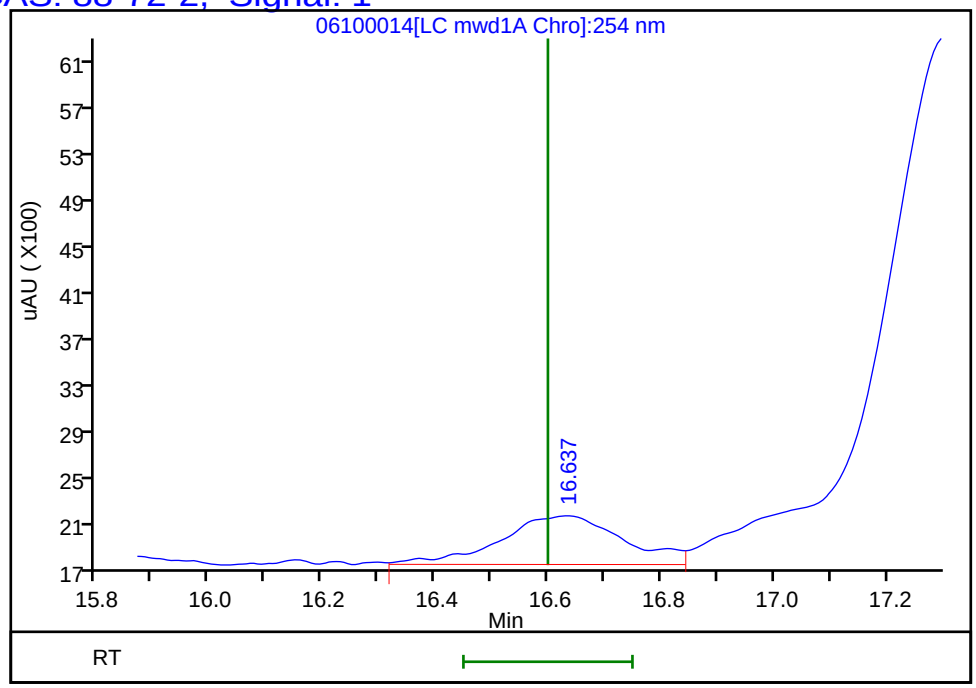
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100014.D				
Injection Date:	10-Jun-2021 20:47:34	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.64
Response: 6344
Amount: 0.025481



Reviewer: zhangji, 11-Jun-2021 12:36:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

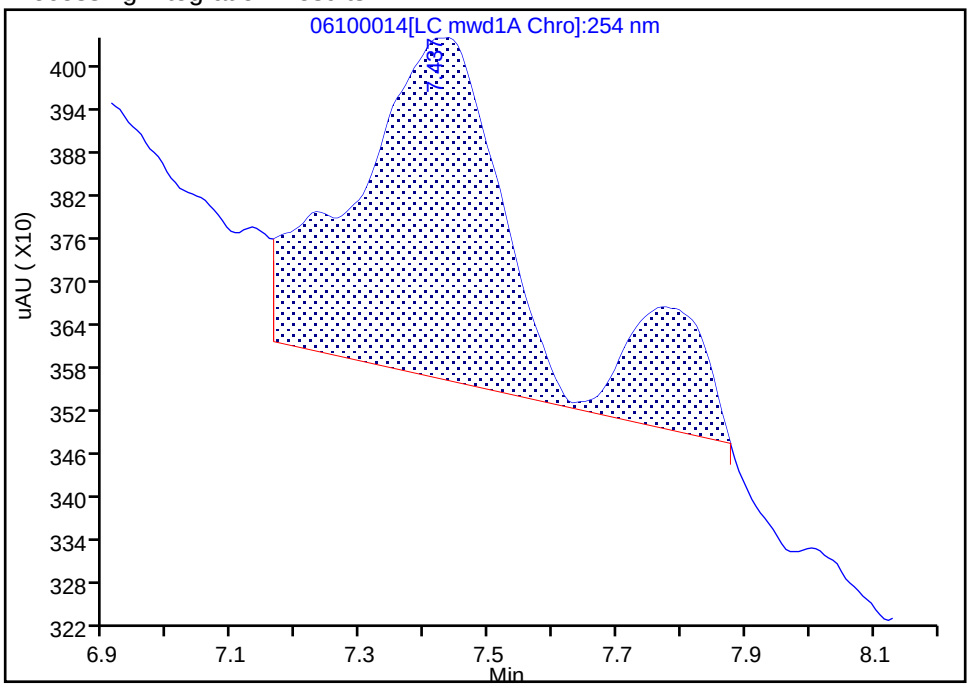
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100014.D				
Injection Date:	10-Jun-2021 20:47:34	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

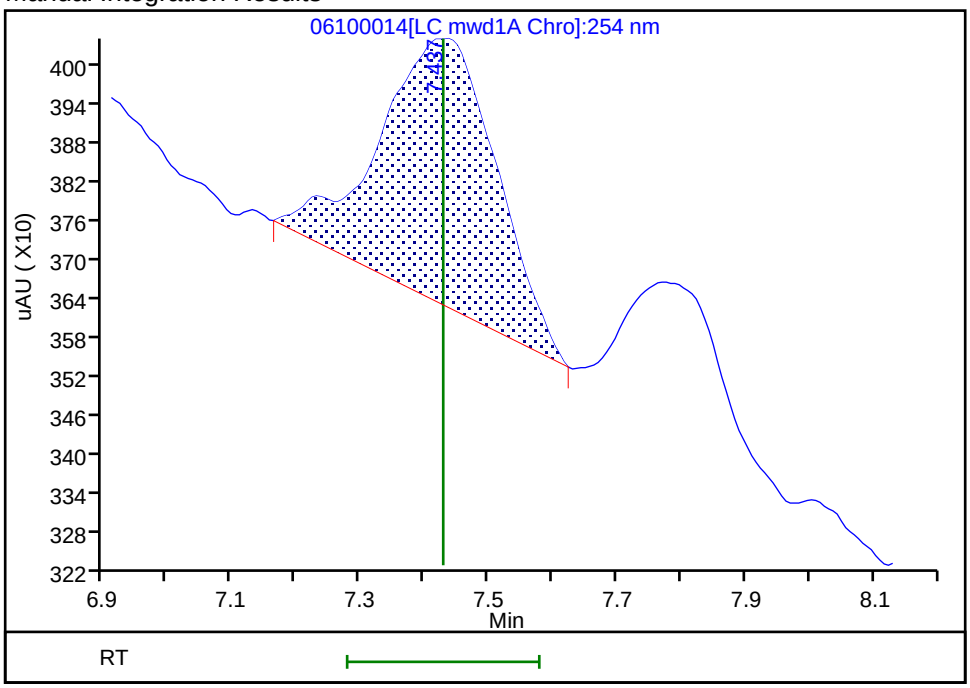
Processing Integration Results

RT: 7.44
Area: 8794
Amount: 0.033205
Amount Units: ug/ml



Manual Integration Results

RT: 7.44
Area: 5220
Amount: 0.019710
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:35:47

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

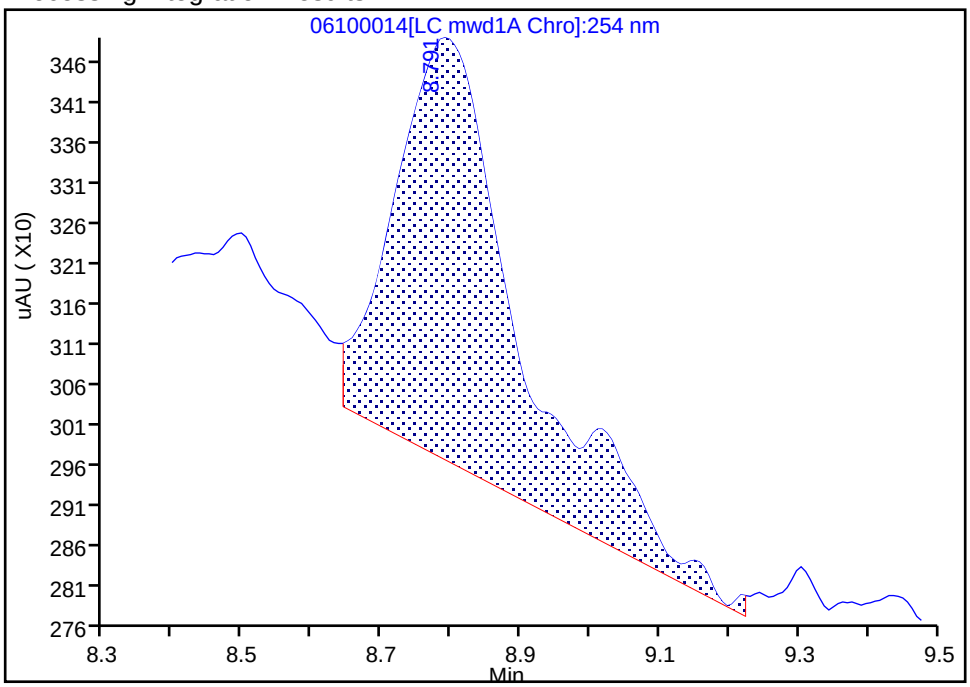
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100014.D				
Injection Date:	10-Jun-2021 20:47:34	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-4-A	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

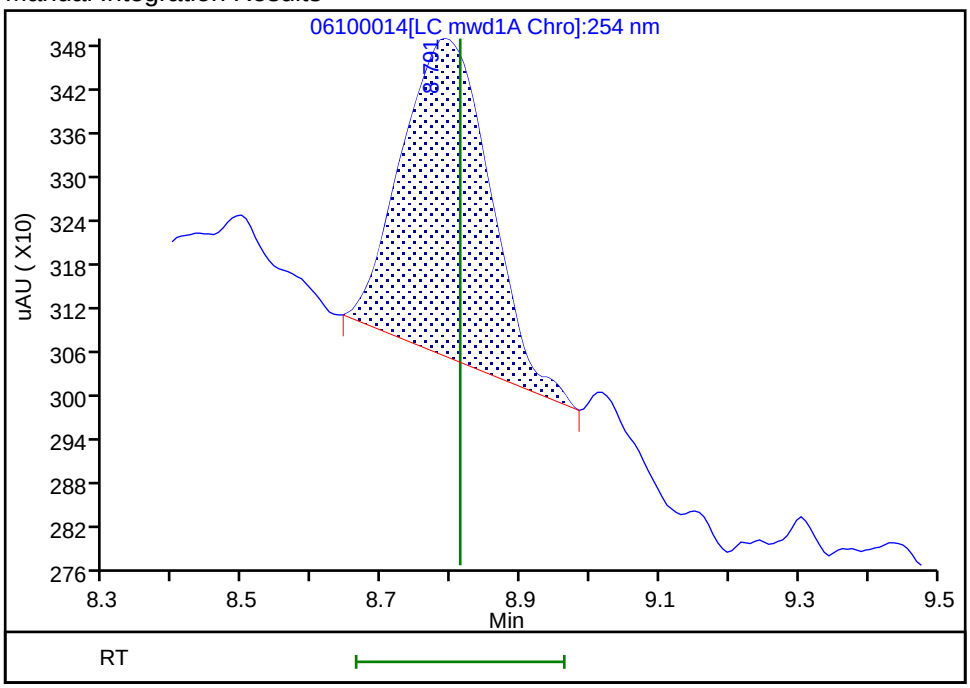
Processing Integration Results

RT: 8.79
Area: 6598
Amount: 0.032300
Amount Units: ug/ml



Manual Integration Results

RT: 8.79
Area: 3885
Amount: 0.019019
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:35:52

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS001-DP06-25 DL
Lab Sample ID: 280-149356-4 DL
Matrix: Water
Lab File ID: 06100011.D
Analysis Method: 8330A
Date Collected: 06/02/2021 11:45
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 504.1(mL)
Date Analyzed: 06/10/2021 16:24
Con. Extract Vol.: 5(mL)
Dilution Factor: 5
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539383
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
118-96-7	2,4,6-Trinitrotoluene	26	D	0.55	0.50	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	93	D	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\06100011.D				
Lims ID:	280-149356-A-4-A DL				
Client ID:	OS001-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 16:24:16	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-4-A				
Misc. Info.:	280-0102248-011				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:34:15	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1619				
First Level Reviewer: zhangji		Date:	10-Jun-2021 16:54:29		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.612			ND	U
6 MNX	1		7.216			ND	U
7 RDX	1		7.585			ND	
$ 9 1,2-Dinitrobenzene	1	8.515	8.519	-0.004	4792	0.0374	
10 1,3,5-Trinitrobenzene	1	8.642	8.645	-0.003	3546	0.0161	
11 1,3-Dinitrobenzene	1		9.272			ND	
12 Nitrobenzene	1		9.659			ND	
14 Tetryl	1		9.985			ND	U
16 2,4,6-Trinitrotoluene	1	10.915	10.912	0.003	107219	0.5204	
17 4-Amino-2,6-dinitrotoluene	1	11.122	11.119	0.003	5546	0.0363	
18 2-Amino-4,6-dinitrotoluene	1	11.382	11.379	0.003	9543	0.0461	
19 2,6-Dinitrotoluene	1		11.545			ND	
20 2,4-Dinitrotoluene	1		11.719			ND	
21 o-Nitrotoluene	1		12.599			ND	
22 p-Nitrotoluene	1		13.039			ND	
23 m-Nitrotoluene	1		13.625			ND	

QC Flag Legend

Processing Flags

Review Flags

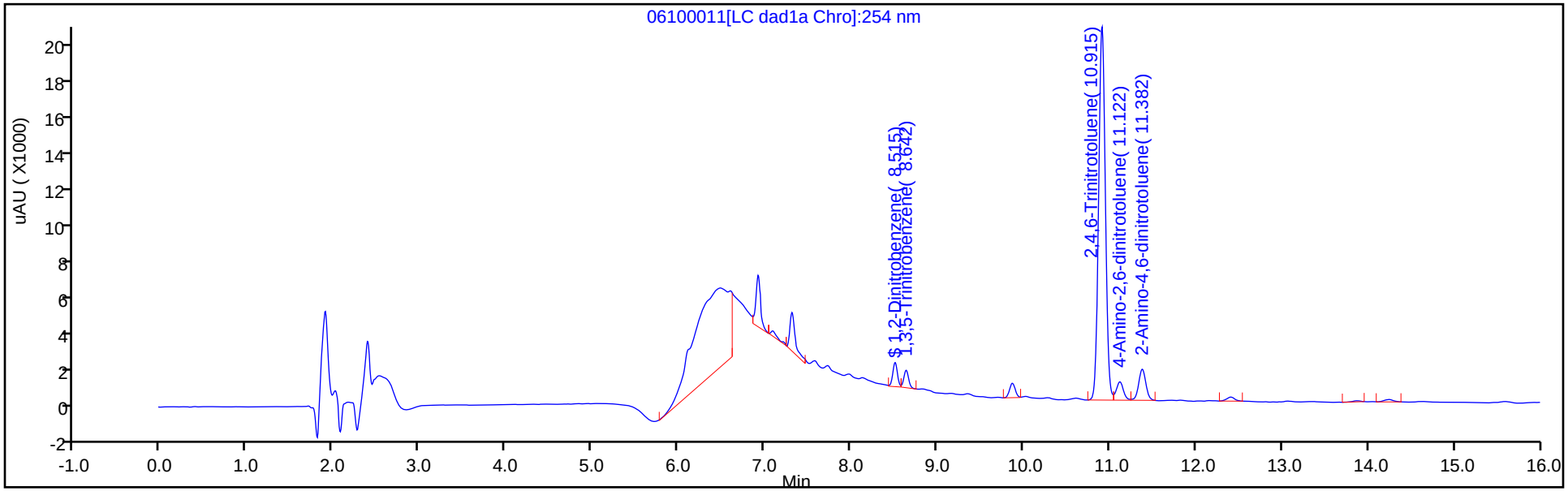
U - Marked Undetected

Report Date: 11-Jun-2021 12:34:16 Chrom Revision: 2.3 13-May-2021 07:57:40

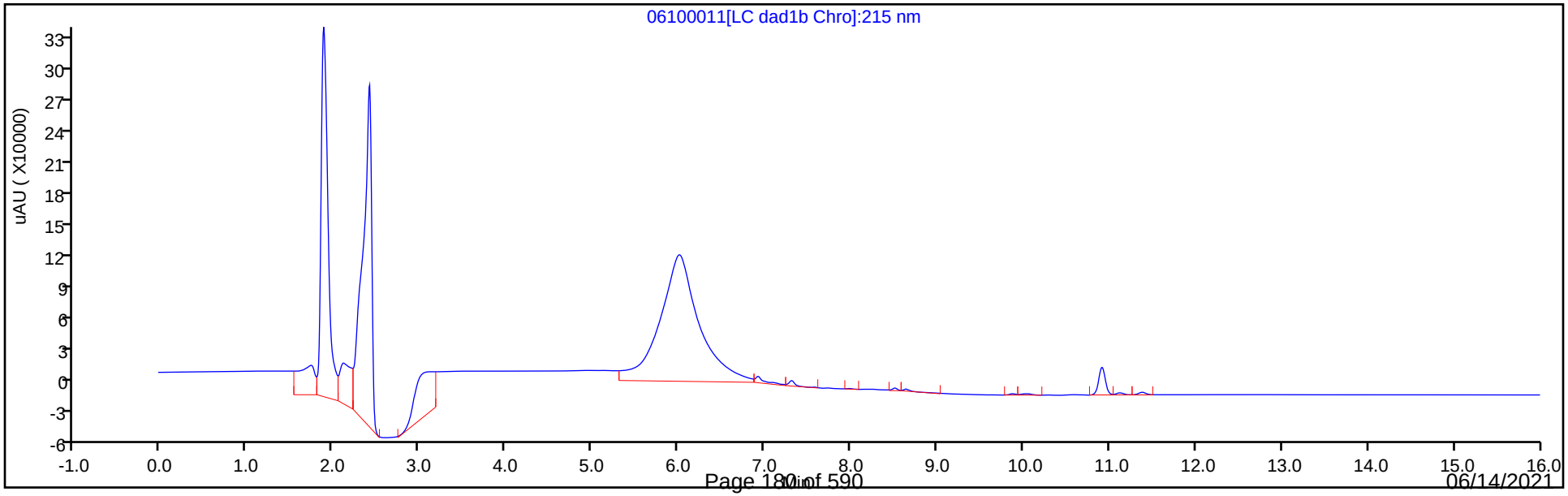
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100011.d				
Injection Date:	10-Jun-2021 16:24:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-4-A DL	Lab Sample ID:	280-149356-4	Worklist Smp#:	11
Client ID:	OS001-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	11
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\06100011.D				
Lims ID:	280-149356-A-4-A DL				
Client ID:	OS001-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 16:24:16	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-4-A				
Misc. Info.:	280-0102248-011				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	11-Jun-2021 12:34:15	Calib Date:	01-May-2021 21:04:39
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1619	

First Level Reviewer: zhangji Date: 10-Jun-2021 16:54:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0374	18.69

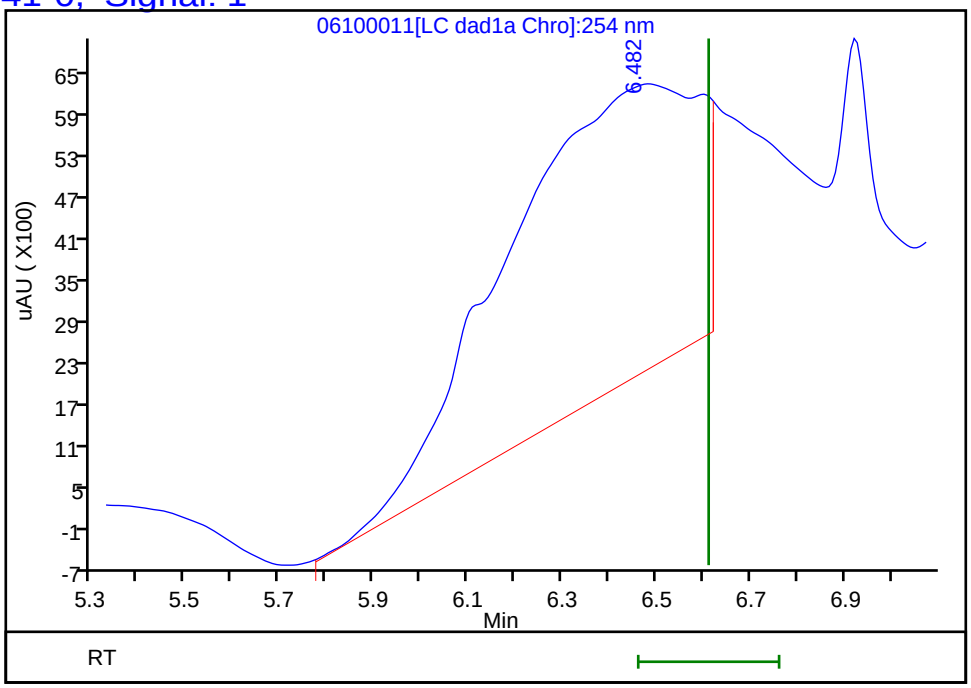
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100011.d				
Injection Date:	10-Jun-2021 16:24:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A DL	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.48
Response: 124569
Amount: 1.475561



Reviewer: zhangji, 10-Jun-2021 16:54:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

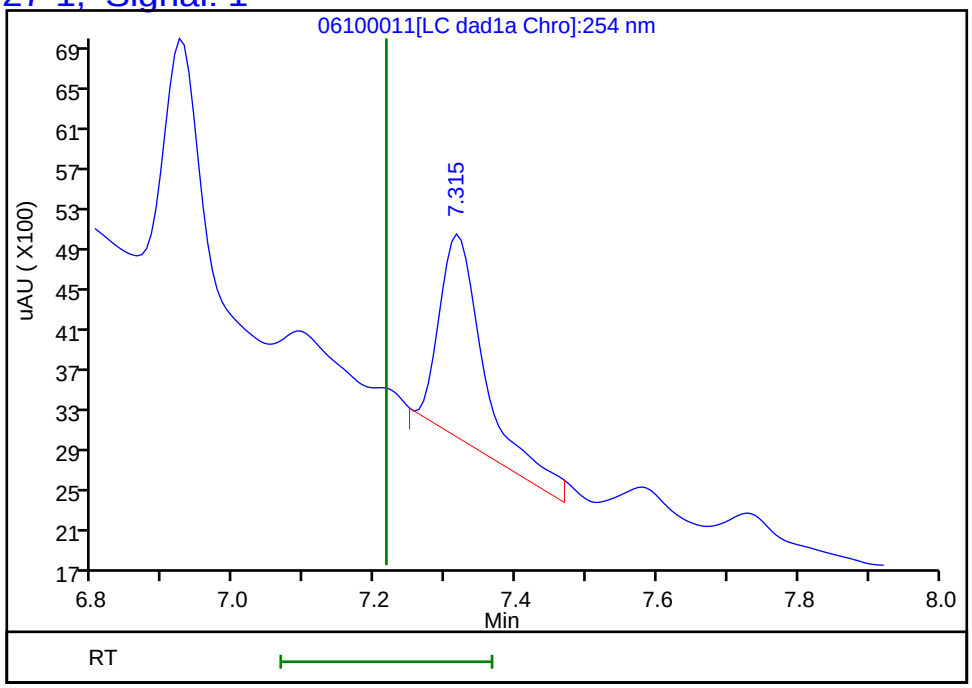
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100011.d				
Injection Date:	10-Jun-2021 16:24:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A DL	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.32
Response: 9015
Amount: 0.069165



Reviewer: zhangji, 10-Jun-2021 16:54:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

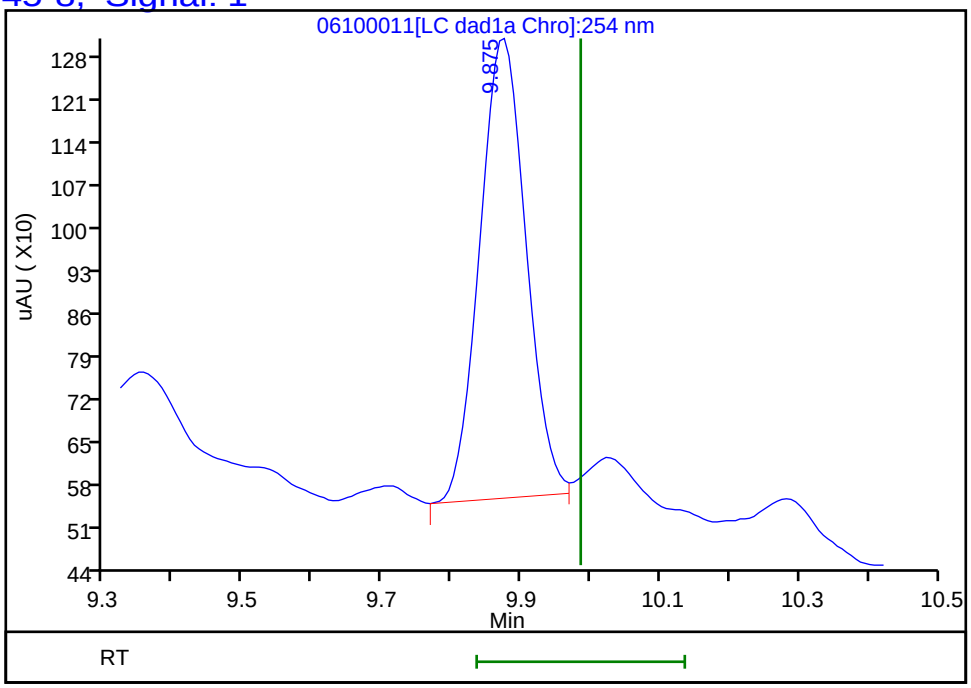
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100011.d				
Injection Date:	10-Jun-2021 16:24:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-4-A DL	Lab Sample ID:	280-149356-4		
Client ID:	OS001-DP06-25				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.88
Response: 3505
Amount: 0.020328



Reviewer: zhangji, 10-Jun-2021 16:54:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS001-DP06-25 DL
Lab Sample ID: 280-149356-4 DL
Matrix: Water
Lab File ID: 06100015.D
Analysis Method: 8330A
Date Collected: 06/02/2021 11:45
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 504.1(mL)
Date Analyzed: 06/10/2021 21:22
Con. Extract Vol.: 5(mL)
Dilution Factor: 5
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539386
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	90	D	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100015.D				
Lims ID:	280-149356-A-4-A DL				
Client ID:	OS001-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 21:22:31	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-4-A				
Misc. Info.:	280-0102249-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC mwd1A, 254 nm
Process Host:	CTX1619	

First Level Reviewer: zhangji Date: 11-Jun-2021 12:36:17

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		6.646			ND	7
7 MNX	1		7.429			ND	7
8 RDX	1		8.813			ND	7
9 Nitrobenzene	1		11.859			ND	
$ 10 1,2-Dinitrobenzene	1	12.947	12.952	-0.005	9527	0.0359	
12 1,3-Dinitrobenzene	1		15.372			ND	
14 o-Nitrotoluene	1		16.599			ND	7
15 p-Nitrotoluene	1		16.886			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.321	17.346	-0.025	12501	0.0421	
17 m-Nitrotoluene	1		17.859			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.234	18.246	-0.012	19941	0.0479	
19 1,3,5-Trinitrobenzene	1	18.754	18.772	-0.018	11158	0.0202	
20 2,6-Dinitrotoluene	1		20.012			ND	
21 2,4-Dinitrotoluene	1		20.486			ND	
22 Tetryl	1		24.113			ND	
23 2,4,6-Trinitrotoluene	1	25.048	25.093	-0.045	200554	0.5354	

QC Flag Legend

Processing Flags

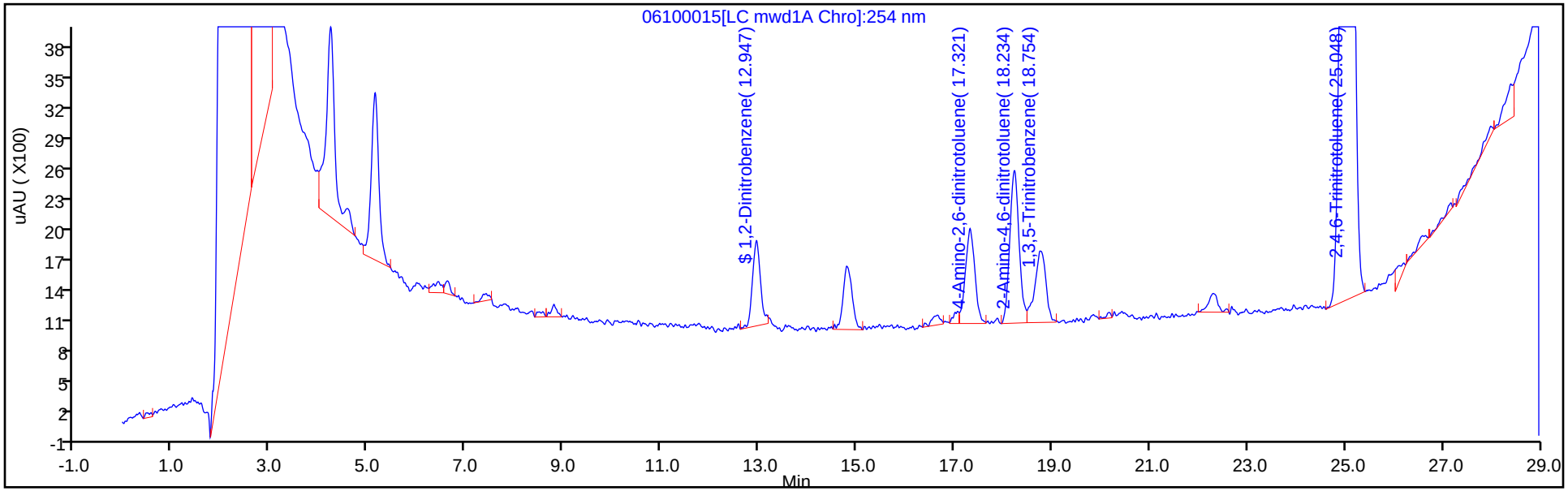
7 - Failed Limit of Detection

Report Date: 11-Jun-2021 12:42:19 Chrom Revision: 2.3 13-May-2021 07:57:40

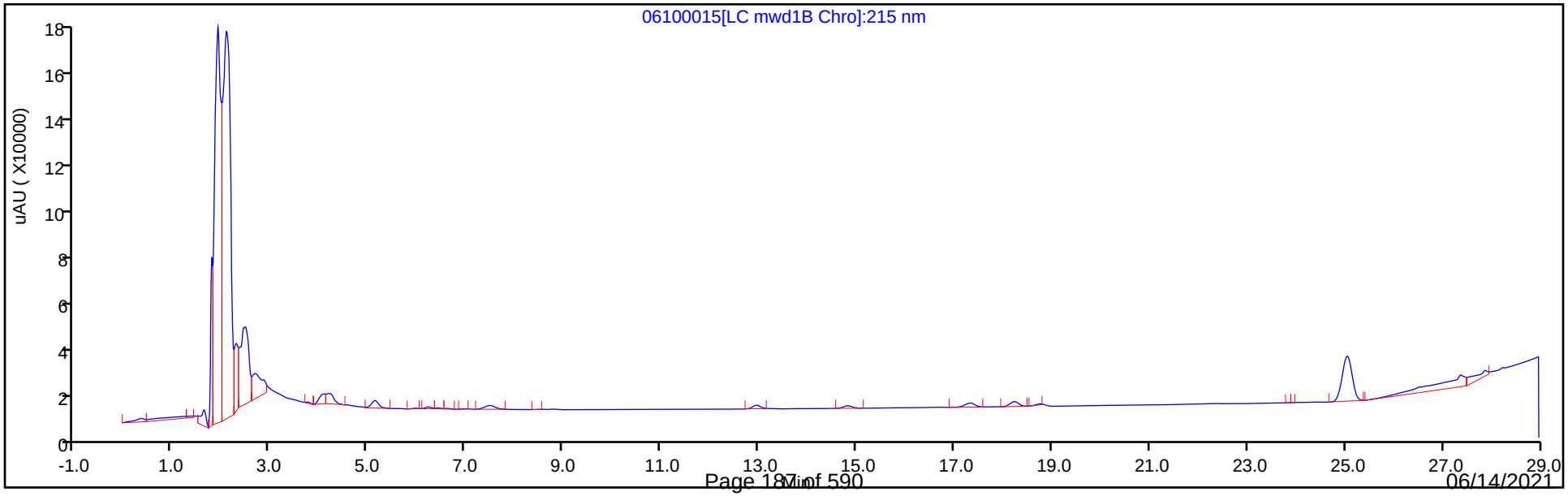
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100015.D				
Injection Date:	10-Jun-2021 21:22:31	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-149356-A-4-A DL	Lab Sample ID:	280-149356-4	Worklist Smp#:	15
Client ID:	OS001-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	15
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100015.D				
Lims ID:	280-149356-A-4-A DL				
Client ID:	OS001-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 21:22:31	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-4-A				
Misc. Info.:	280-0102249-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				

First Level Reviewer: zhangji Date: 11-Jun-2021 12:36:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0359	17.93

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS001-DP06-35
Lab Sample ID: 280-149356-5
Matrix: Water
Lab File ID: 06090024.D
Analysis Method: 8330A
Date Collected: 06/02/2021 12:20
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 508(mL)
Date Analyzed: 06/09/2021 21:23
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	23	Q M	0.21	0.20	0.083
99-65-0	1,3-Dinitrobenzene	0.098	U Q M	0.11	0.098	0.036
118-96-7	2,4,6-Trinitrotoluene	4.9	Q	0.11	0.098	0.044
121-14-2	2,4-Dinitrotoluene	0.079	U Q	0.098	0.079	0.027
35572-78-2	2-Amino-4,6-dinitrotoluene	0.52	Q	0.11	0.098	0.050
88-72-2	2-Nitrotoluene	0.20	U Q	0.21	0.20	0.084
99-08-1	3-Nitrotoluene	0.39	U Q	0.39	0.39	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.99	Q	0.15	0.12	0.057
99-99-0	4-Nitrotoluene	0.39	U Q M	0.40	0.39	0.098
2691-41-0	HMX	0.20	U Q	0.21	0.20	0.086
5755-27-1	MNX	0.39	U	2.0	0.39	0.15
98-95-3	Nitrobenzene	0.20	U Q M	0.21	0.20	0.090
121-82-4	RDX	0.20	U Q M	0.21	0.20	0.051
479-45-8	Tetryl	0.098	U Q M	0.11	0.098	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	79	Q M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090024.D				
Lims ID:	280-149356-A-5-A				
Client ID:	OS001-DP06-35				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 21:23:30	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-5-A				
Misc. Info.:	280-0102208-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 10-Jun-2021 12:55:04

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.611			ND	
	6 MNX	1		7.214			ND	
	7 RDX	1		7.584			ND	U
$	9 1,2-Dinitrobenzene	1	8.506	8.511	-0.005	20309	0.1584	M
	10 1,3,5-Trinitrobenzene	1	8.639	8.637	0.002	519488	2.36	M
	11 1,3-Dinitrobenzene	1		9.264			ND	U
	12 Nitrobenzene	1		9.651			ND	U
	14 Tetryl	1		9.977			ND	U
	16 2,4,6-Trinitrotoluene	1	10.899	10.897	0.002	102336	0.4967	
	17 4-Amino-2,6-dinitrotoluene	1	11.099	11.104	-0.005	15389	0.1007	
	18 2-Amino-4,6-dinitrotoluene	1	11.359	11.364	-0.005	11009	0.0532	
	19 2,6-Dinitrotoluene	1	11.512	11.531	-0.019	19231	0.1344	
	20 2,4-Dinitrotoluene	1		11.704			ND	
	21 o-Nitrotoluene	1		12.571			ND	
	22 p-Nitrotoluene	1		13.011			ND	U
	23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

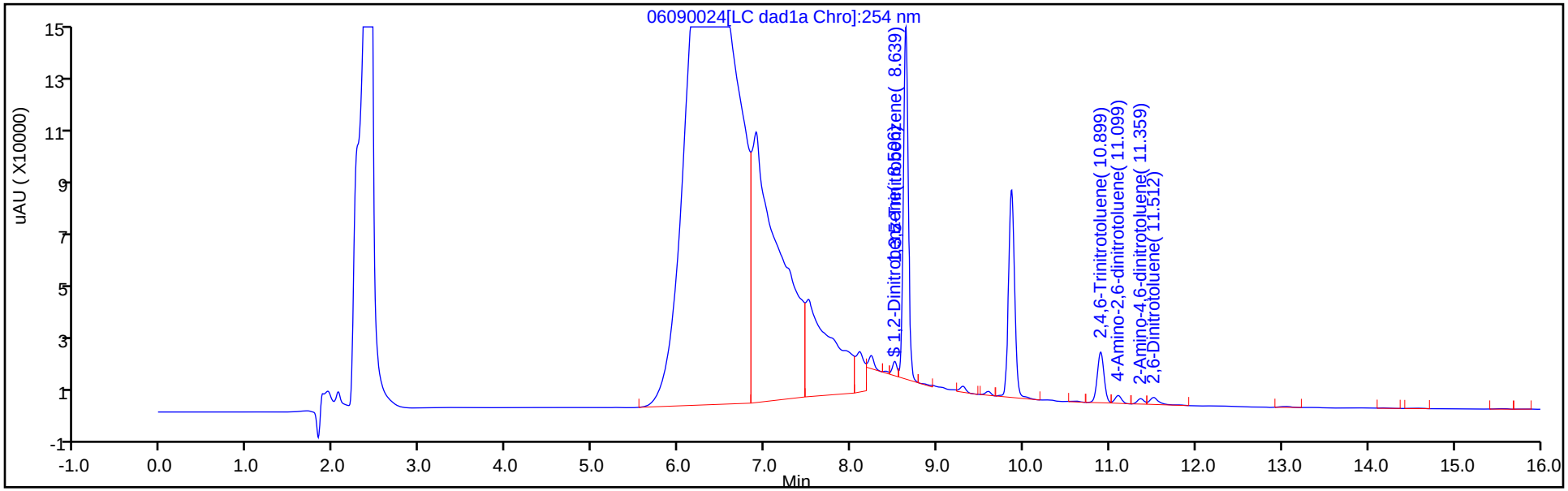
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:08 Chrom Revision: 2.3 13-May-2021 07:57:40

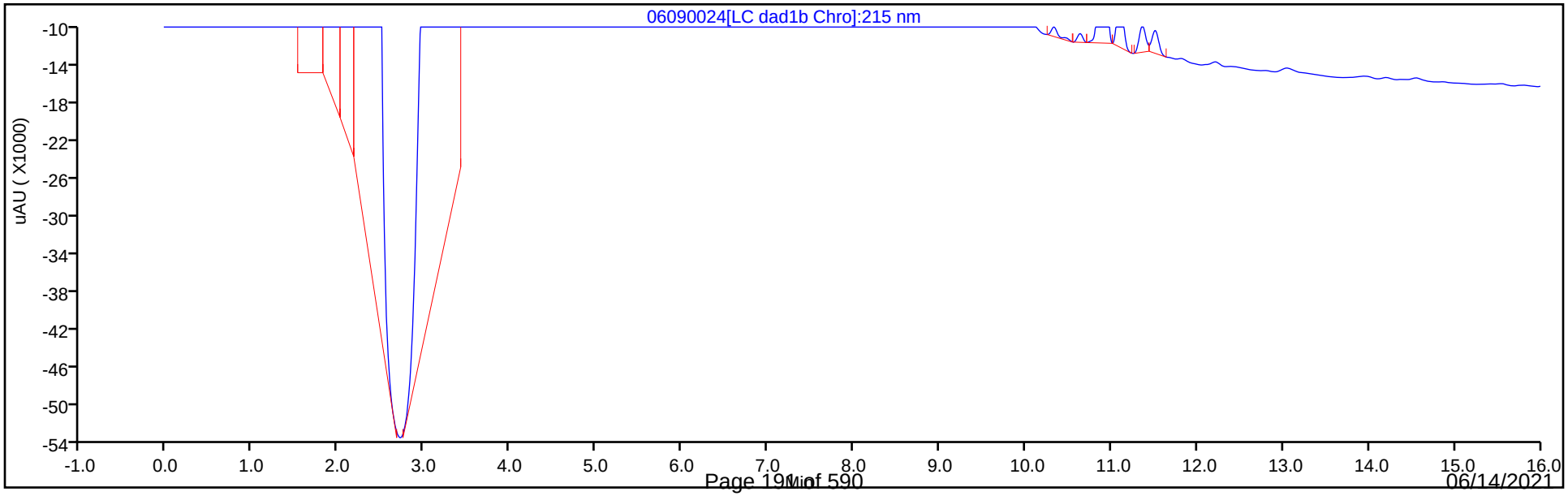
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5	Worklist Smp#:	24
Client ID:	OS001-DP06-35				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090024.D				
Lims ID:	280-149356-A-5-A				
Client ID:	OS001-DP06-35				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 21:23:30	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-5-A				
Misc. Info.:	280-0102208-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 10-Jun-2021 12:55:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1584	79.20

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

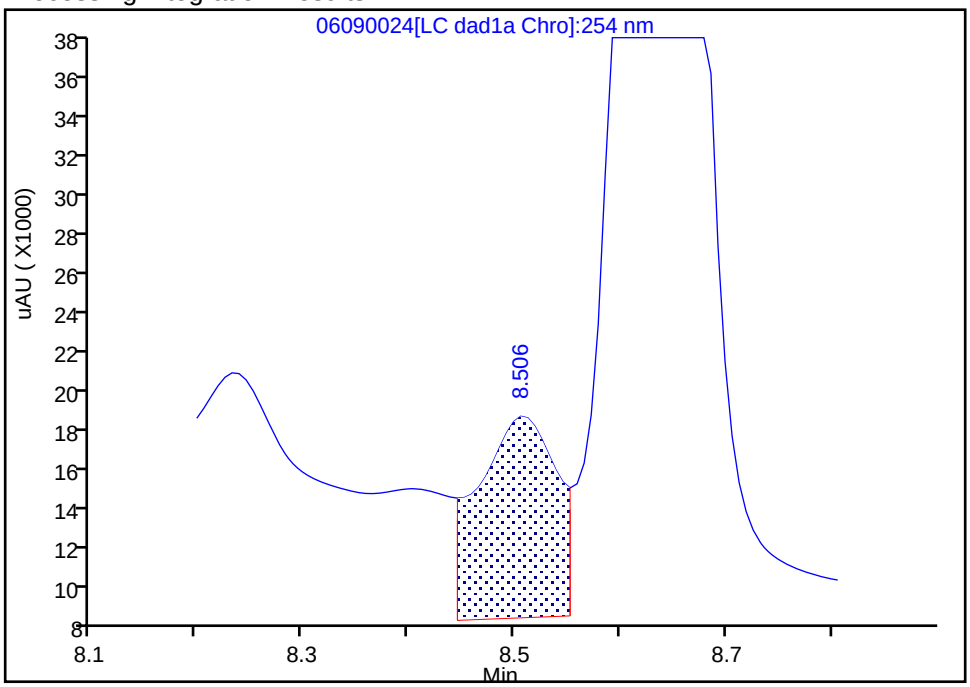
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

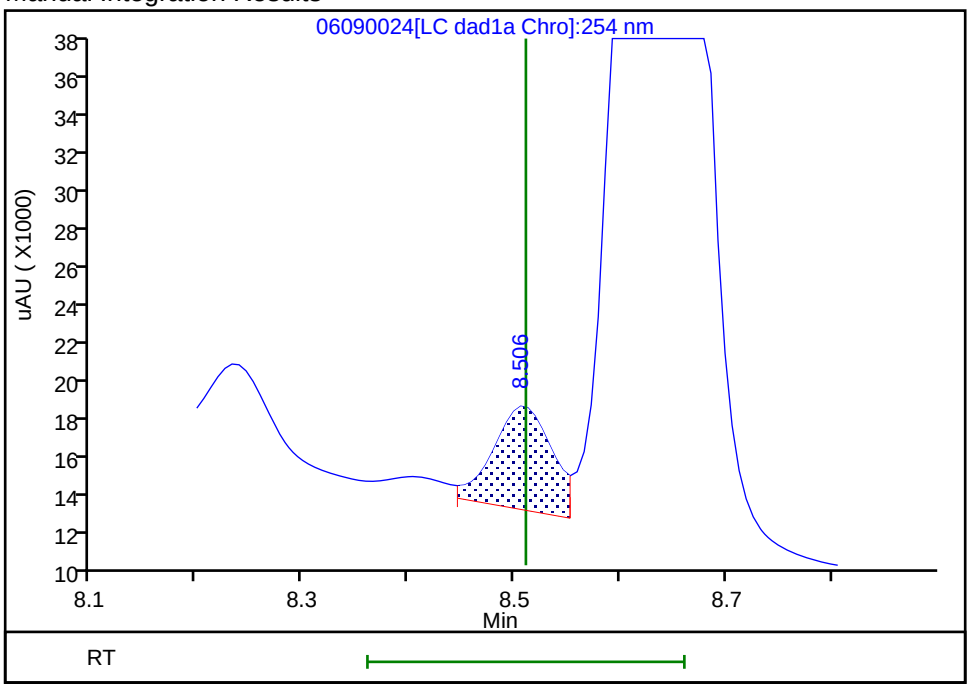
Processing Integration Results

RT: 8.51
Area: 51147
Amount: 0.398909
Amount Units: ug/mL



Manual Integration Results

RT: 8.51
Area: 20309
Amount: 0.158395
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:54:42
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

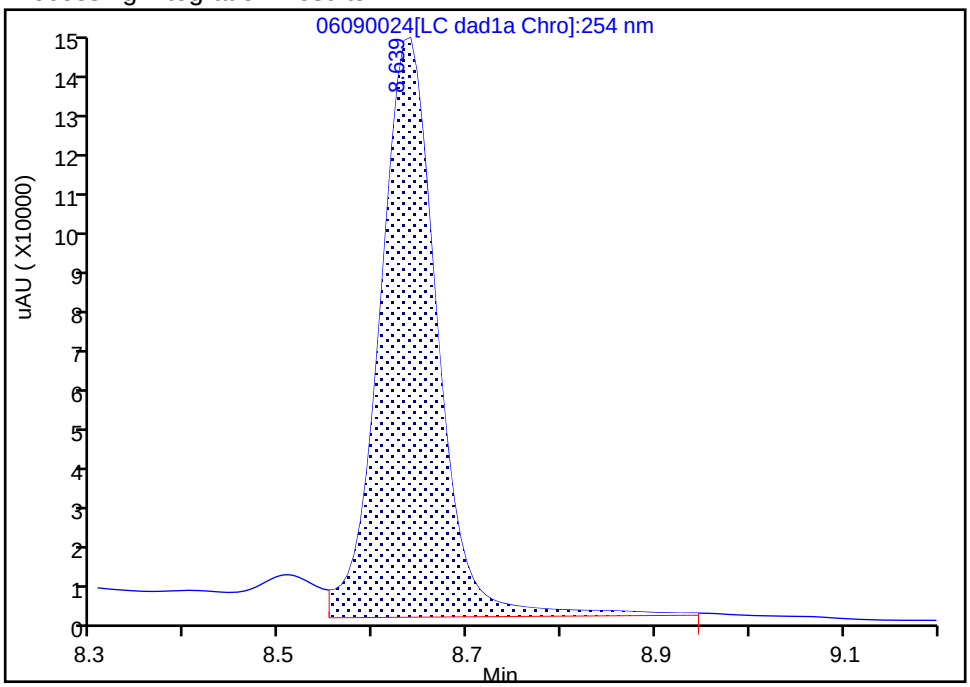
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

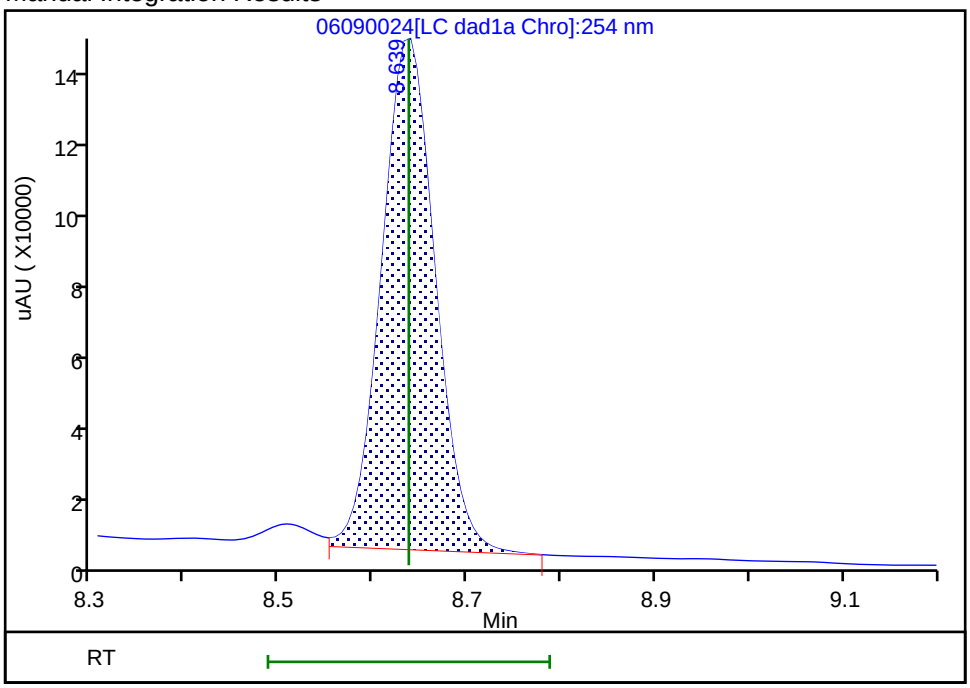
Processing Integration Results

RT: 8.64
Area: 569443
Amount: 2.584649
Amount Units: ug/mL



Manual Integration Results

RT: 8.64
Area: 519488
Amount: 2.357908
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:54:46
Audit Action: Split an Integrated Peak Audit Reason: Baseline

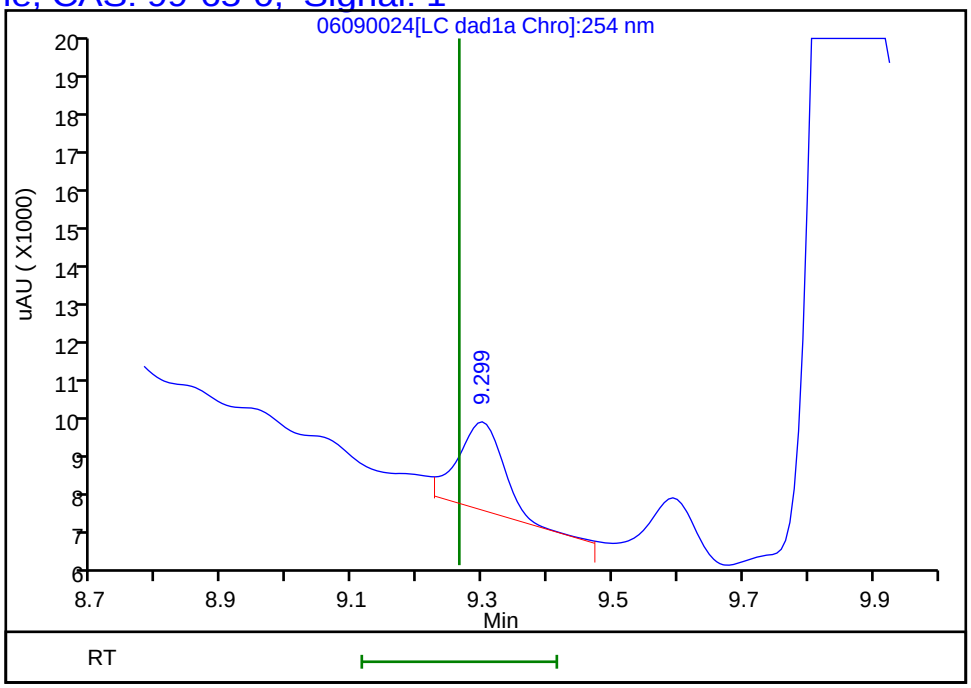
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.30
Response: 10761
Amount: 0.036314



Reviewer: zhangji, 10-Jun-2021 12:55:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

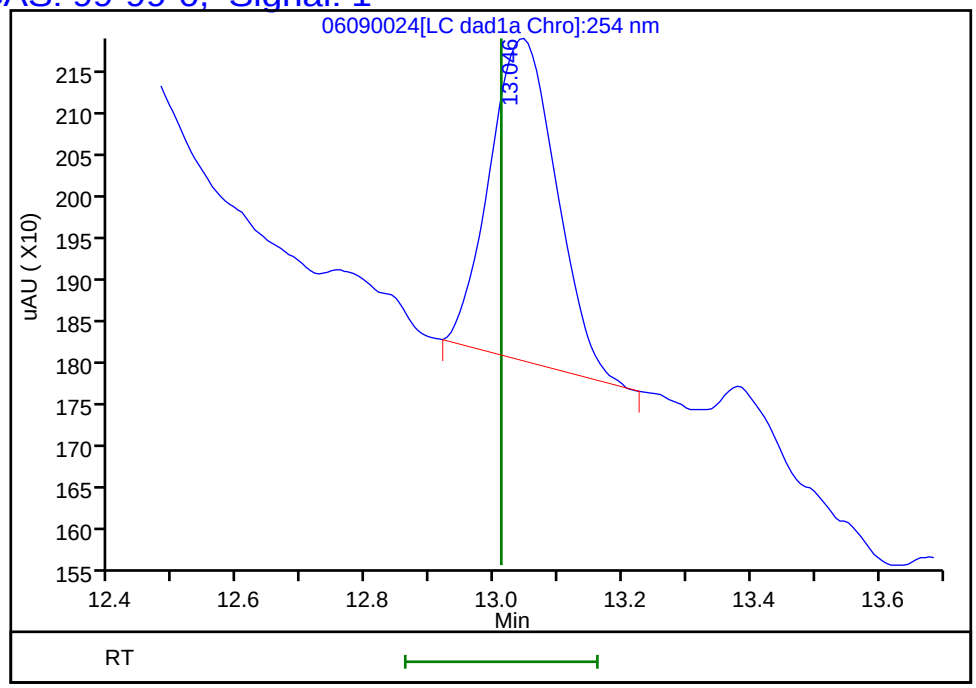
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.05
Response: 2815
Amount: 0.025154



Reviewer: zhangji, 10-Jun-2021 12:55:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

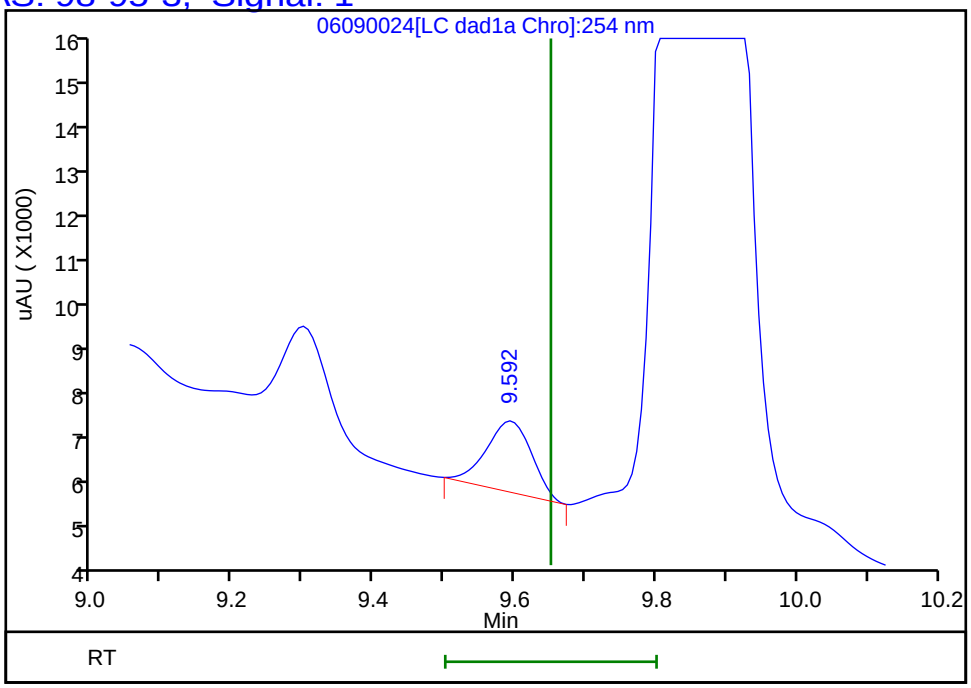
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.59
Response: 6422
Amount: 0.032885



Reviewer: zhangji, 10-Jun-2021 12:55:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

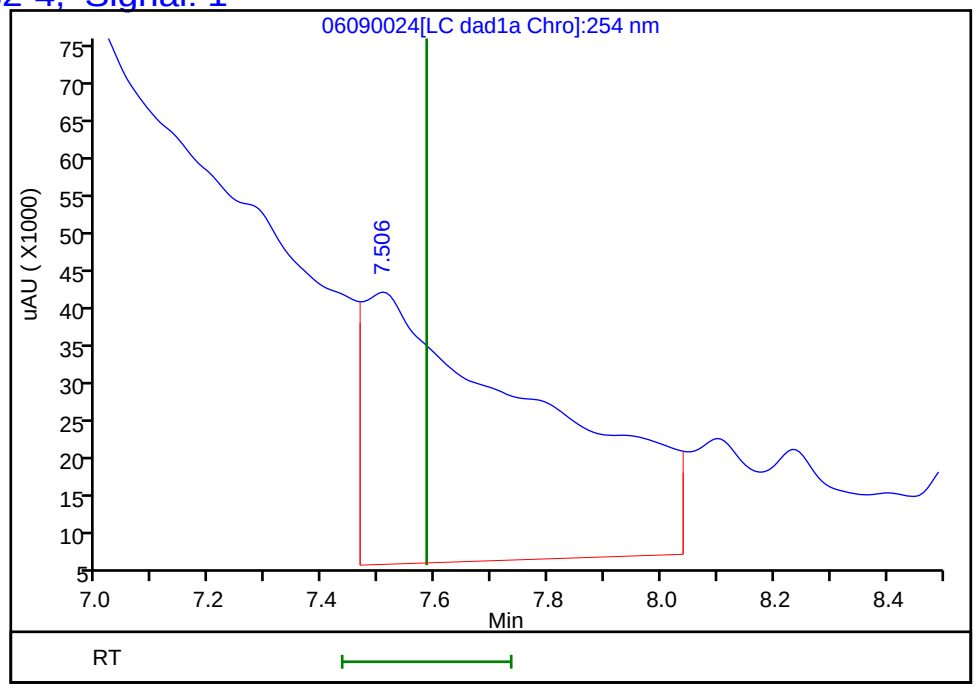
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4, Signal: 1

RT: 7.51
Response: 776929
Amount: 7.311484



Reviewer: zhangji, 10-Jun-2021 12:55:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

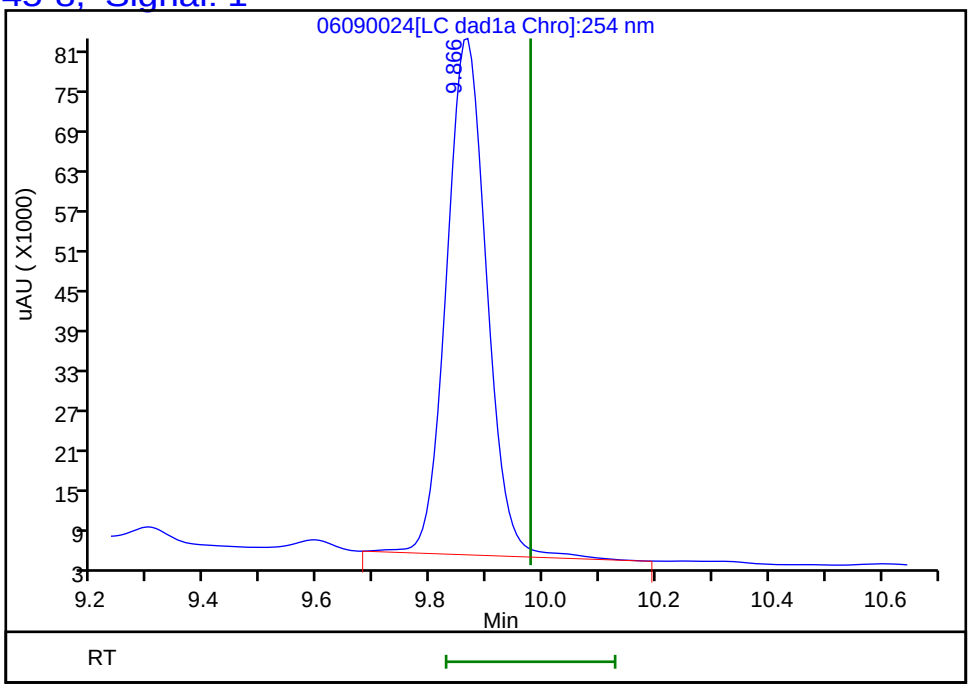
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090024.d				
Injection Date:	09-Jun-2021 21:23:30	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.87
Response: 381973
Amount: 2.215364



Reviewer: zhangji, 10-Jun-2021 12:55:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS001-DP06-35
Lab Sample ID: 280-149356-5
Matrix: Water
Lab File ID: 06100016.D
Analysis Method: 8330A
Date Collected: 06/02/2021 12:20
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 508(mL)
Date Analyzed: 06/10/2021 21:57
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539386
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
606-20-2	2,6-Dinitrotoluene	0.079	U Q	0.098	0.079	0.039

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	71	*M Q*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Lims ID:	280-149356-A-5-A				
Client ID:	OS001-DP06-35				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 21:57:29	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-5-A				
Misc. Info.:	280-0102249-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				
First Level Reviewer: zhangji		Date:	11-Jun-2021 12:36:46		

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	6.614	6.646	-0.032	4873	0.0245	M
	7 MNX	1		7.429			ND	U
	8 RDX	1	8.767	8.813	-0.046	5462	0.0267	M
	9 Nitrobenzene	1		11.859			ND	
$	10 1,2-Dinitrobenzene	1	12.927	12.952	-0.025	37876	0.1426	M
	12 1,3-Dinitrobenzene	1		15.372			ND	
	14 o-Nitrotoluene	1		16.599			ND	U
	15 p-Nitrotoluene	1		16.886			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.307	17.346	-0.039	38192	0.1287	
	17 m-Nitrotoluene	1		17.859			ND	
	18 2-Amino-4,6-dinitrotoluene	1	18.213	18.246	-0.033	29911	0.0735	
	19 1,3,5-Trinitrobenzene	1	18.740	18.772	-0.032	993051	2.42	
	20 2,6-Dinitrotoluene	1		20.012			ND	
	21 2,4-Dinitrotoluene	1		20.486			ND	
	22 Tetryl	1		24.113			ND	
	23 2,4,6-Trinitrotoluene	1	25.027	25.093	-0.066	191169	0.5101	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

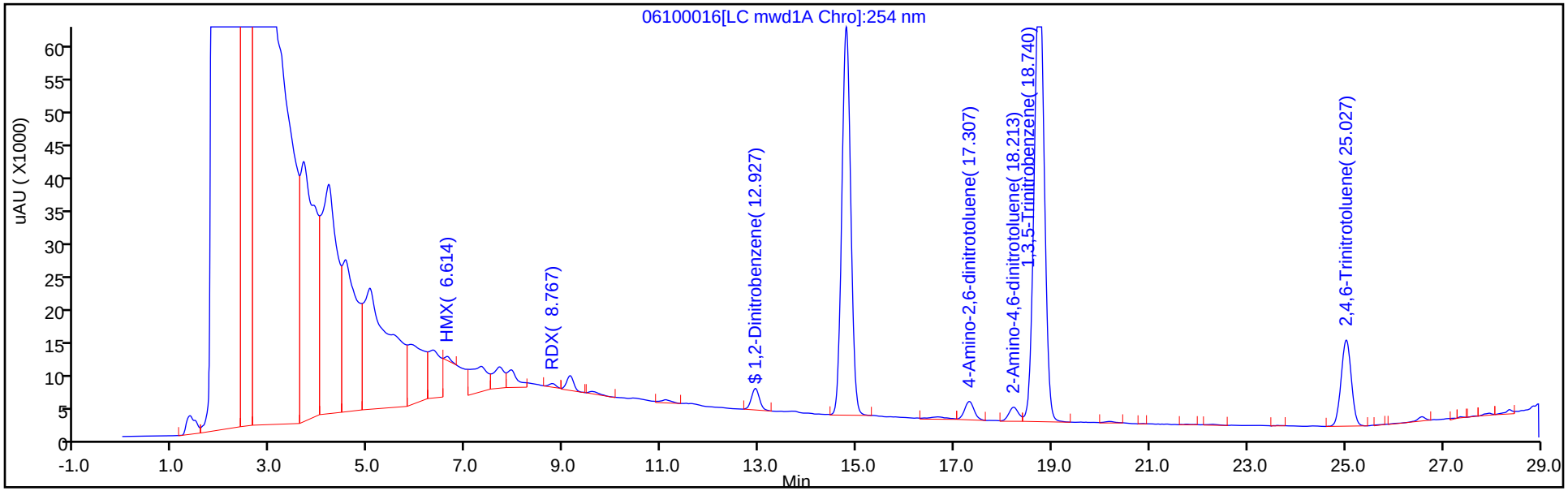
U - Marked Undetected

Report Date: 11-Jun-2021 12:42:18 Chrom Revision: 2.3 13-May-2021 07:57:40

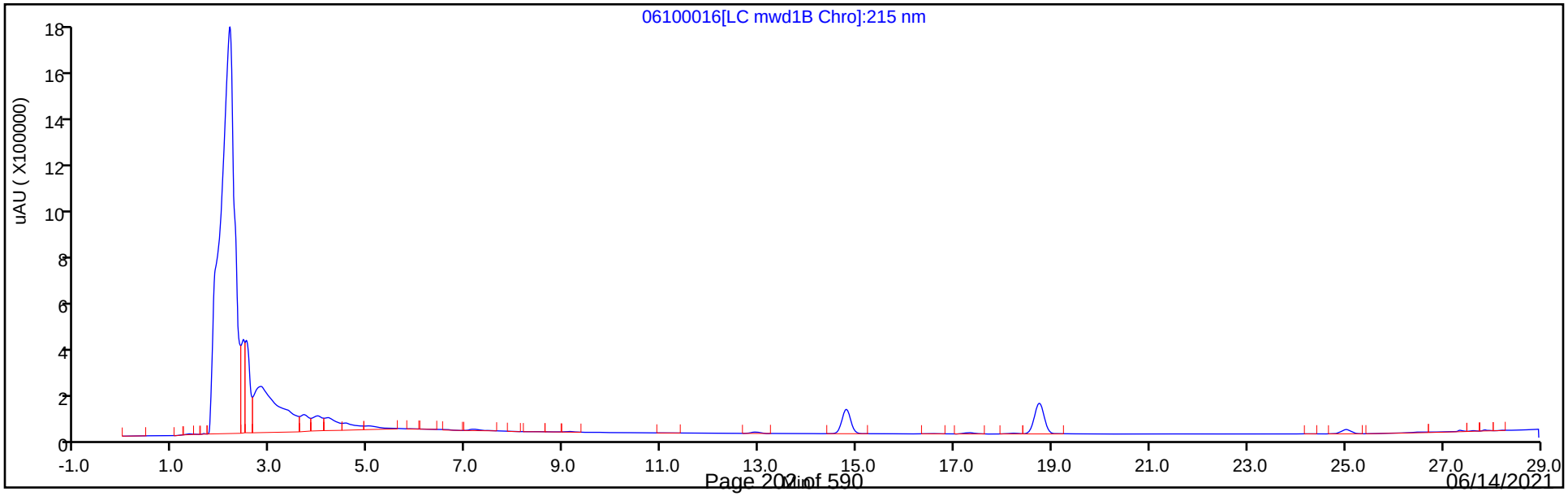
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Injection Date:	10-Jun-2021 21:57:29	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5	Worklist Smp#:	16
Client ID:	OS001-DP06-35				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Lims ID:	280-149356-A-5-A				
Client ID:	OS001-DP06-35				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 21:57:29	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-5-A				
Misc. Info.:	280-0102249-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC mwd1A, 254 nm
Process Host:	CTX1619	

First Level Reviewer: zhangji Date: 11-Jun-2021 12:36:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1426	71.29

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

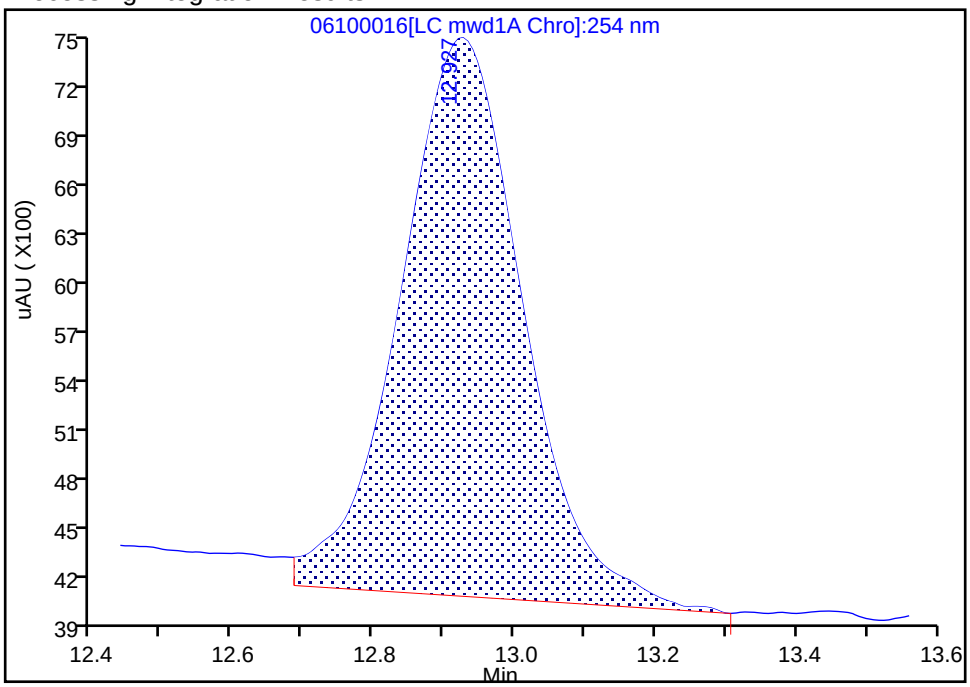
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Injection Date:	10-Jun-2021 21:57:29	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

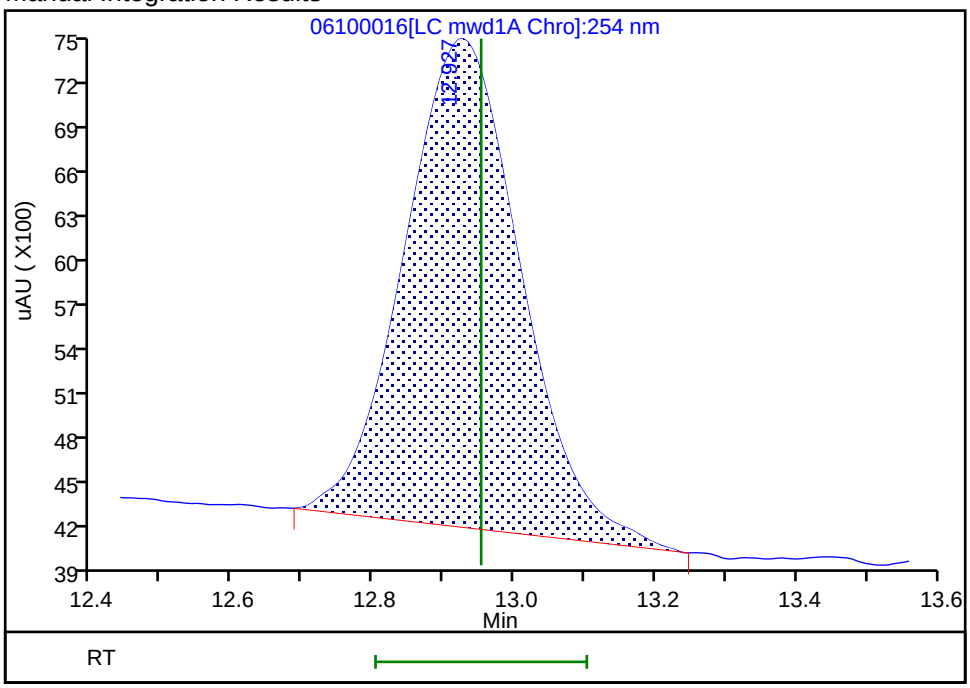
Processing Integration Results

RT: 12.93
Area: 41231
Amount: 0.155203
Amount Units: ug/ml



Manual Integration Results

RT: 12.93
Area: 37876
Amount: 0.142574
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:36:24

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

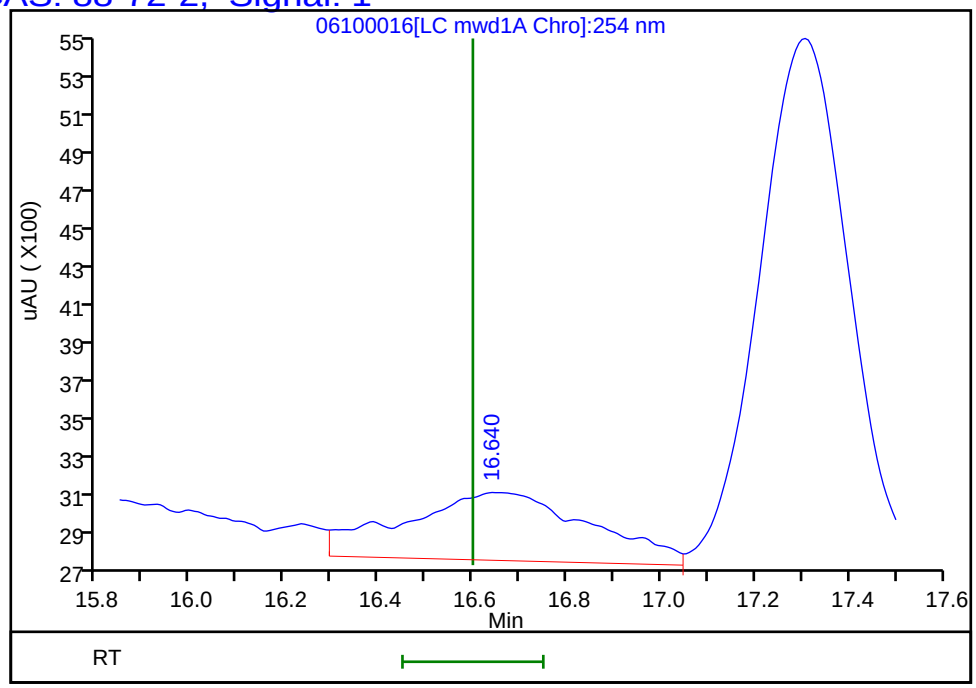
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Injection Date:	10-Jun-2021 21:57:29	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.64
Response: 9691
Amount: 0.038925



Reviewer: zhangji, 11-Jun-2021 12:36:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

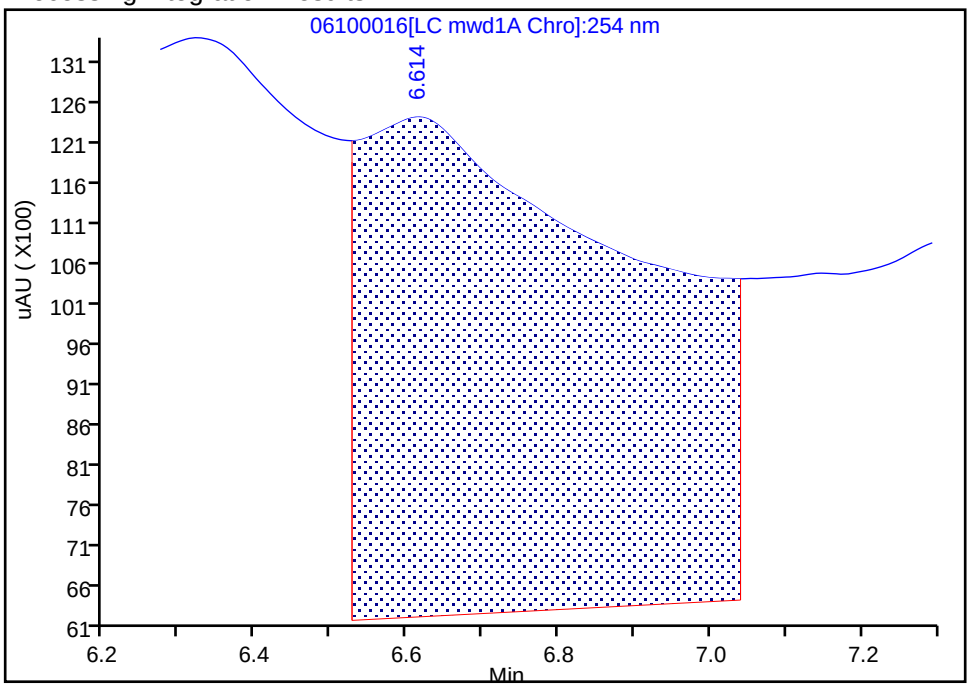
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Injection Date:	10-Jun-2021 21:57:29	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

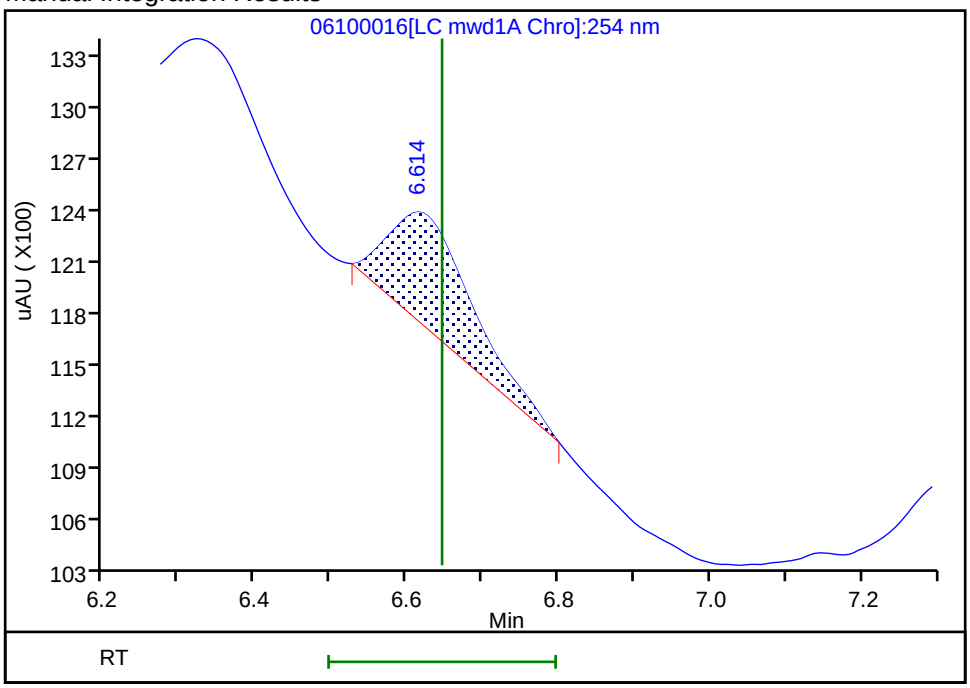
Processing Integration Results

RT: 6.61
Area: 153448
Amount: 0.960281
Amount Units: ug/ml



Manual Integration Results

RT: 6.61
Area: 4873
Amount: 0.024515
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:36:30

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

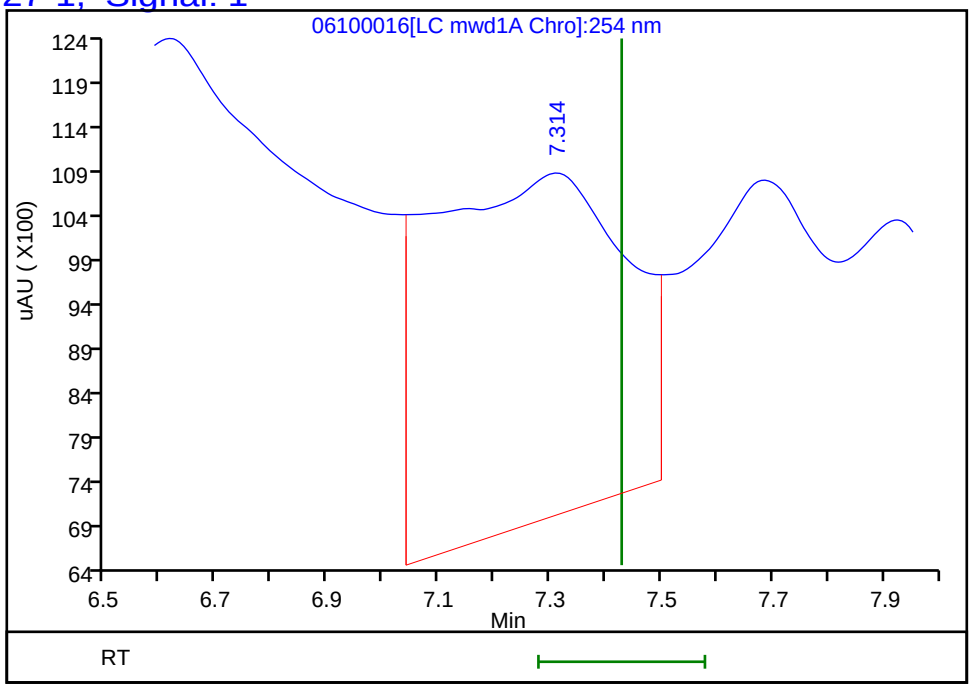
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Injection Date:	10-Jun-2021 21:57:29	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

7 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.31
Response: 95990
Amount: 0.362442



Reviewer: zhangji, 11-Jun-2021 12:36:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

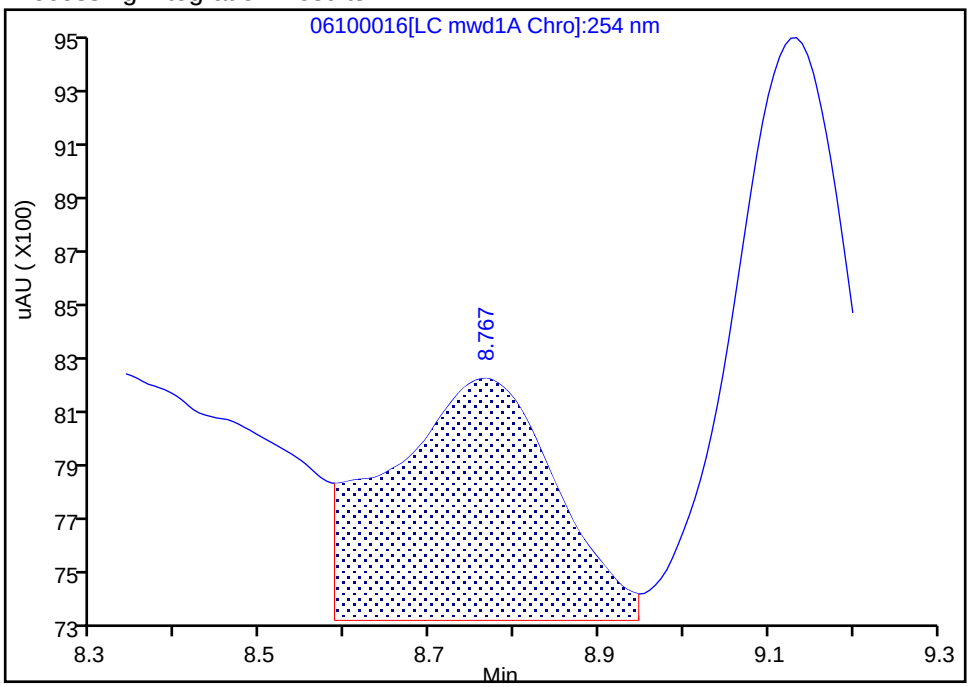
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100016.D				
Injection Date:	10-Jun-2021 21:57:29	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-5-A	Lab Sample ID:	280-149356-5		
Client ID:	OS001-DP06-35				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

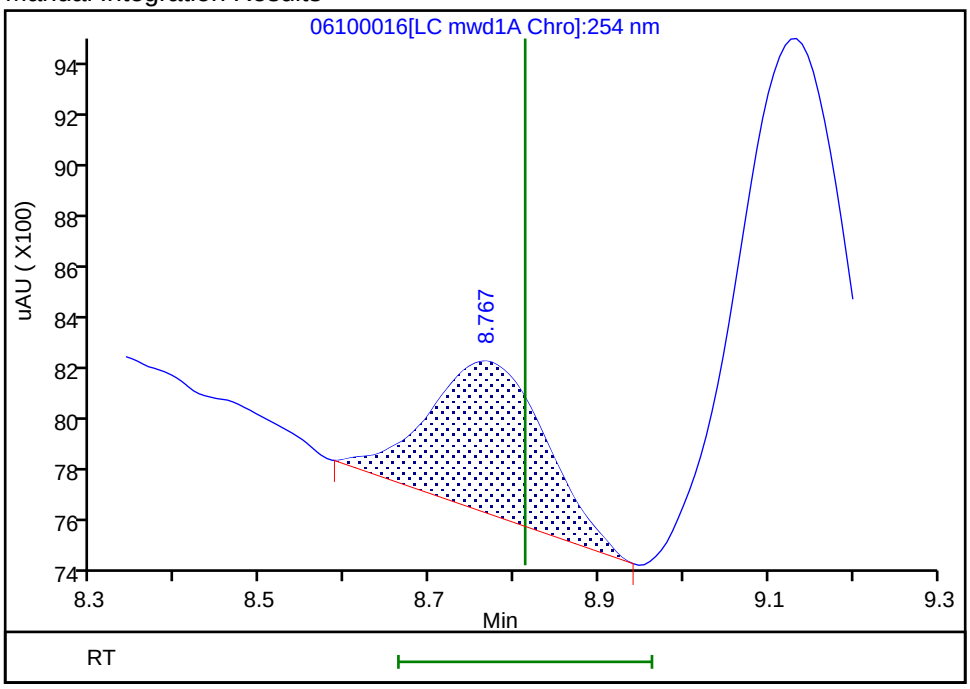
Processing Integration Results

RT: 8.77
Area: 11606
Amount: 0.056817
Amount Units: ug/ml



Manual Integration Results

RT: 8.77
Area: 5462
Amount: 0.026739
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:36:35

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS001-DP06-45
Lab Sample ID: 280-149356-6
Matrix: Water
Lab File ID: 06090025.D
Analysis Method: 8330A
Date Collected: 06/02/2021 13:05
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 503.6(mL)
Date Analyzed: 06/09/2021 21:46
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	5.4	M	0.21	0.20	0.083
118-96-7	2,4,6-Trinitrotoluene	0.34	J1	0.11	0.099	0.045
121-14-2	2,4-Dinitrotoluene	0.079	U	0.099	0.079	0.027
35572-78-2	2-Amino-4,6-dinitrotoluene	0.23	M J1	0.11	0.099	0.050
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.085
99-08-1	3-Nitrotoluene	0.40	U	0.40	0.40	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	J J1	0.15	0.12	0.057
2691-41-0	HMX	0.20	U	0.21	0.20	0.087
5755-27-1	MNX	0.40	U	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U M	0.21	0.20	0.090
121-82-4	RDX	0.20	U M	0.21	0.20	0.051
479-45-8	Tetryl	0.099	U M	0.11	0.099	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	94	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090025.D				
Lims ID:	280-149356-A-6-A				
Client ID:	OS001-DP06-45				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 21:46:27	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-6-A				
Misc. Info.:	280-0102208-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	10-Jun-2021 12:55:52		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.611			ND	
6 MNX	1		7.214			ND	
7 RDX	1		7.584			ND	U
$ 9 1,2-Dinitrobenzene	1	8.510	8.511	-0.001	24006	0.1872	M
10 1,3,5-Trinitrobenzene	1	8.636	8.637	-0.001	119597	0.5428	M
11 1,3-Dinitrobenzene	1	9.296	9.264	0.032	13674	0.0461	
12 Nitrobenzene	1		9.651			ND	U
14 Tetryl	1		9.977			ND	U
16 2,4,6-Trinitrotoluene	1	10.896	10.897	-0.001	6981	0.0339	
17 4-Amino-2,6-dinitrotoluene	1	11.096	11.104	-0.008	2034	0.0133	
18 2-Amino-4,6-dinitrotoluene	1	11.363	11.364	-0.001	4886	0.0236	M
19 2,6-Dinitrotoluene	1	11.510	11.531	-0.021	7795	0.0545	M
20 2,4-Dinitrotoluene	1		11.704			ND	
21 o-Nitrotoluene	1		12.571			ND	
22 p-Nitrotoluene	1	13.036	13.011	0.025	1130	0.0101	
23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

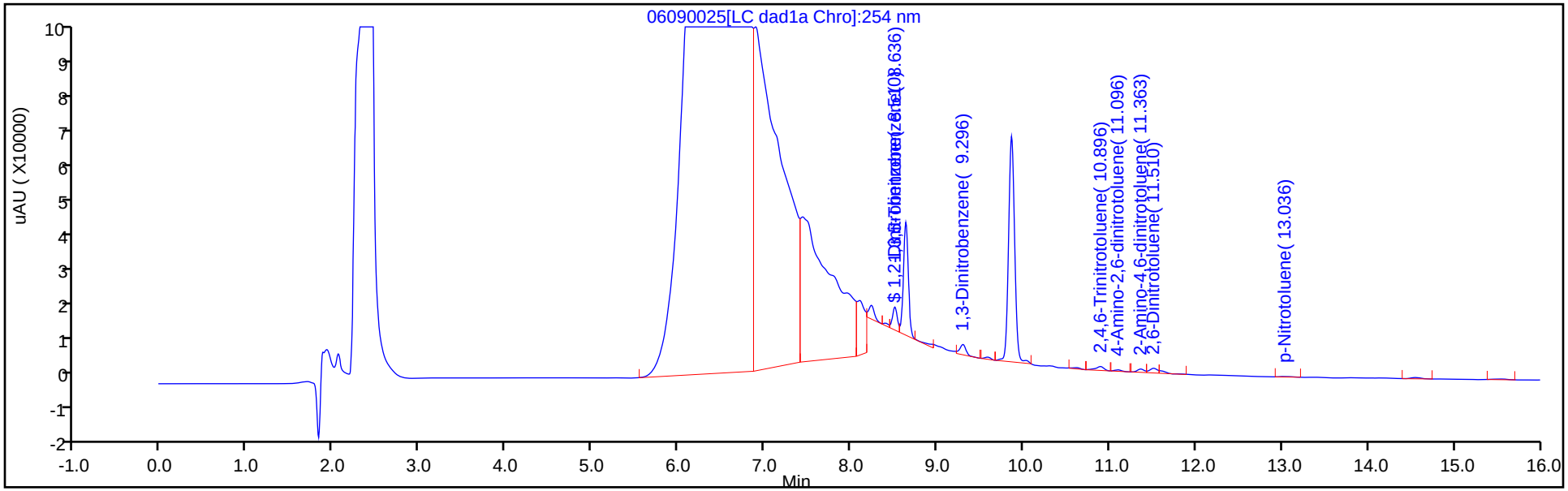
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:09 Chrom Revision: 2.3 13-May-2021 07:57:40

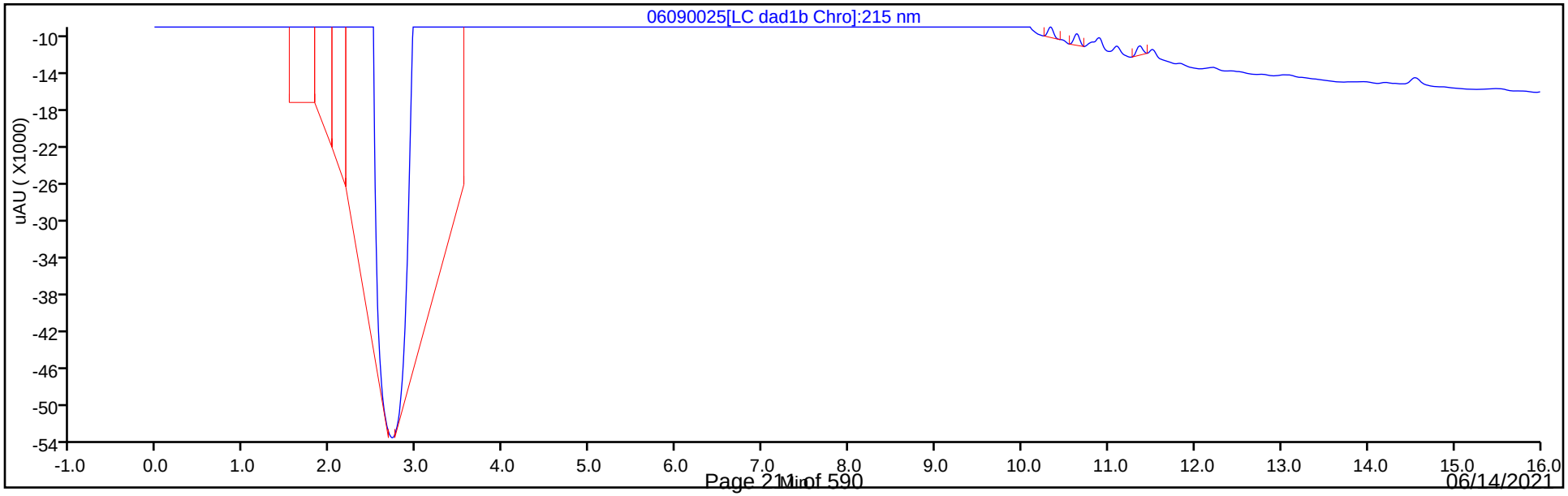
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6	Worklist Smp#:	25
Client ID:	OS001-DP06-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090025.D				
Lims ID:	280-149356-A-6-A				
Client ID:	OS001-DP06-45				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 21:46:27	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-6-A				
Misc. Info.:	280-0102208-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 10-Jun-2021 12:55:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1872	93.61

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

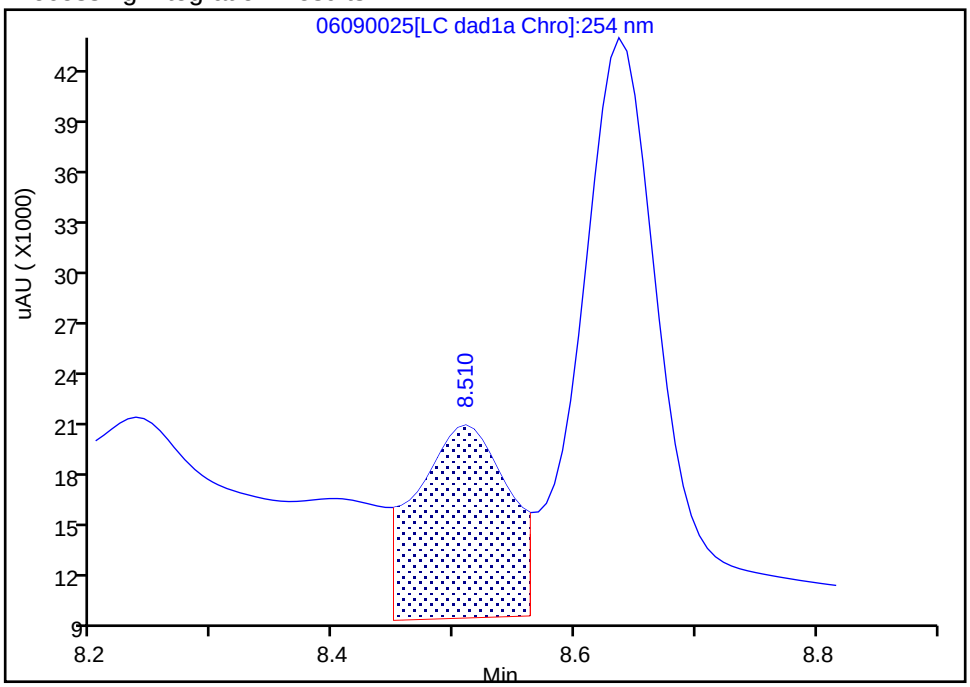
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

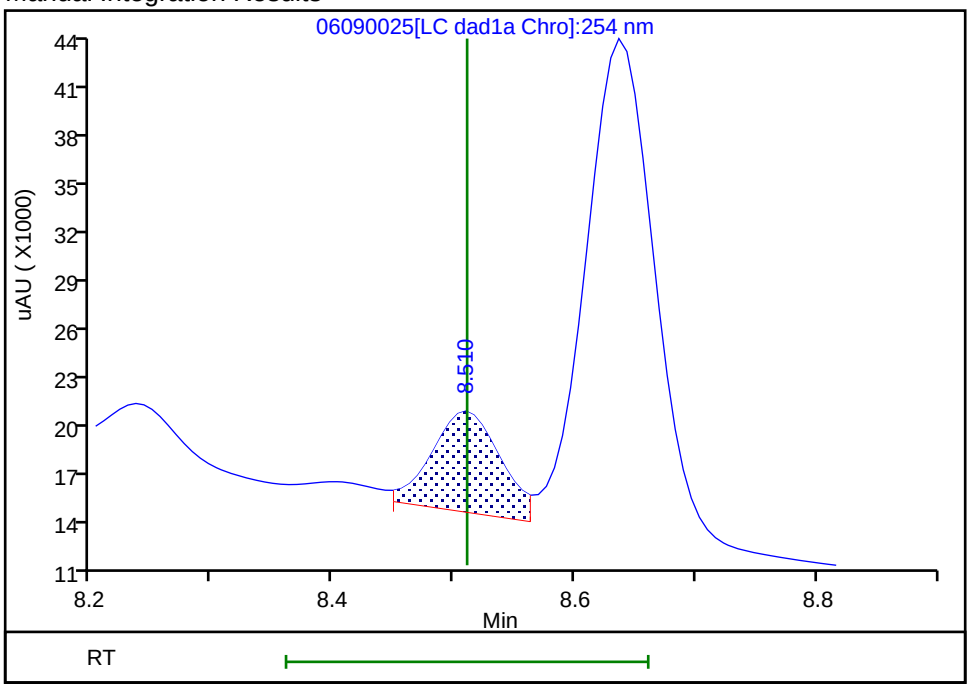
Processing Integration Results

RT: 8.51
Area: 59114
Amount: 0.461046
Amount Units: ug/mL



Manual Integration Results

RT: 8.51
Area: 24006
Amount: 0.187229
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:55:15
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

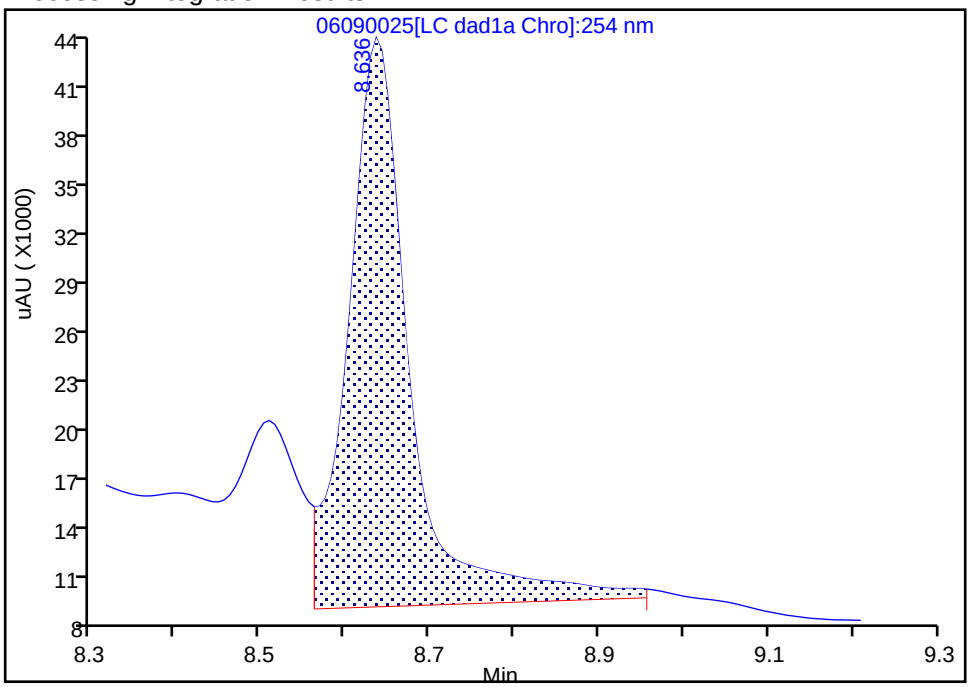
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

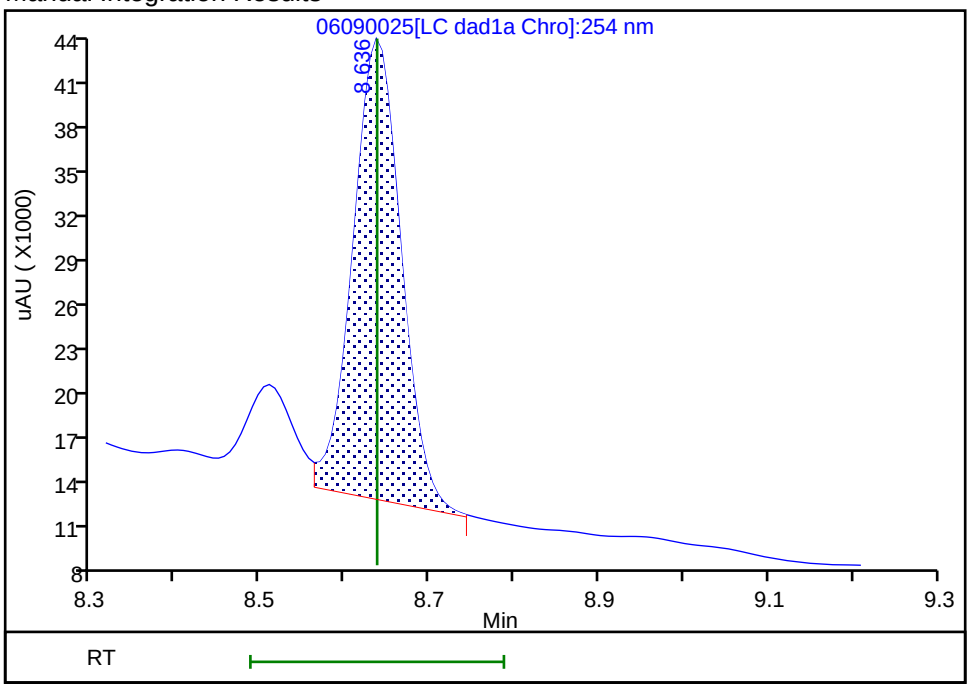
Processing Integration Results

RT: 8.64
Area: 170492
Amount: 0.773847
Amount Units: ug/mL



Manual Integration Results

RT: 8.64
Area: 119597
Amount: 0.542840
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:55:18

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

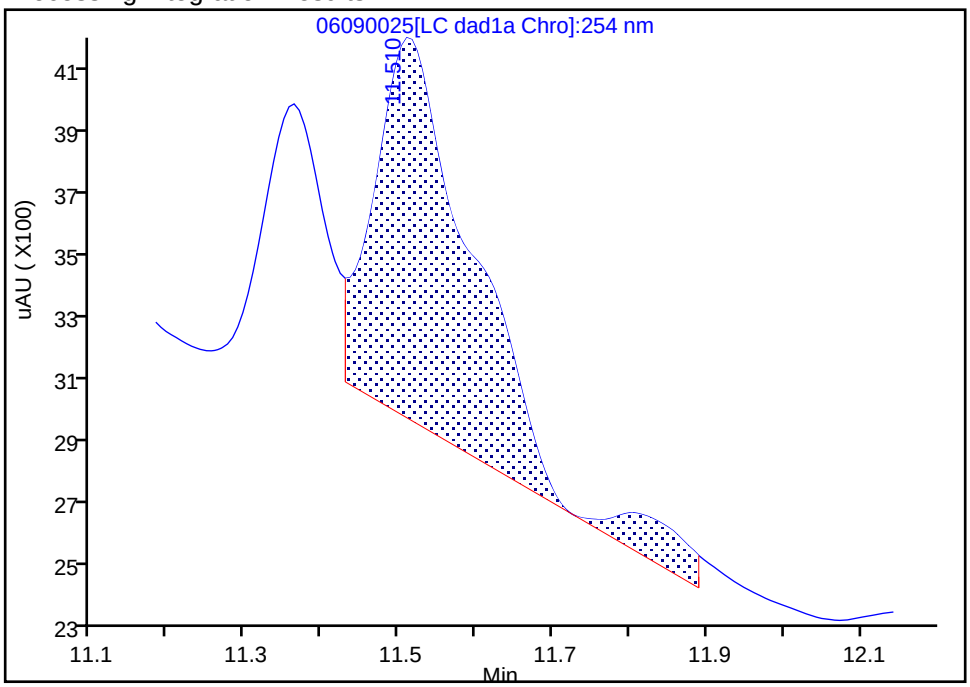
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

19 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

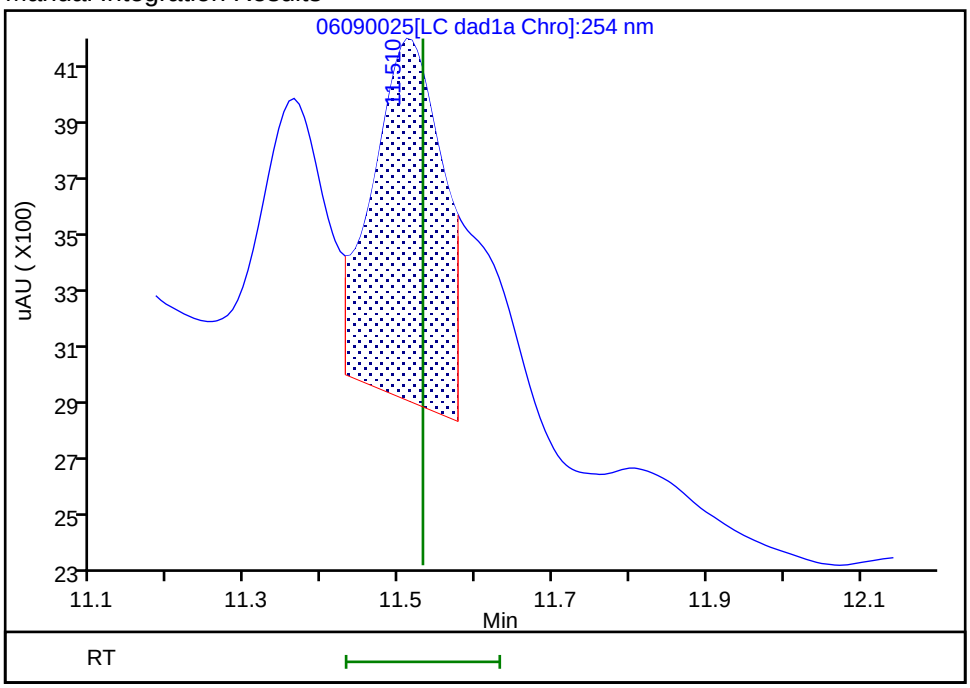
Processing Integration Results

RT: 11.51
Area: 11156
Amount: 0.077971
Amount Units: ug/mL



Manual Integration Results

RT: 11.51
Area: 7795
Amount: 0.054480
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:55:49
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

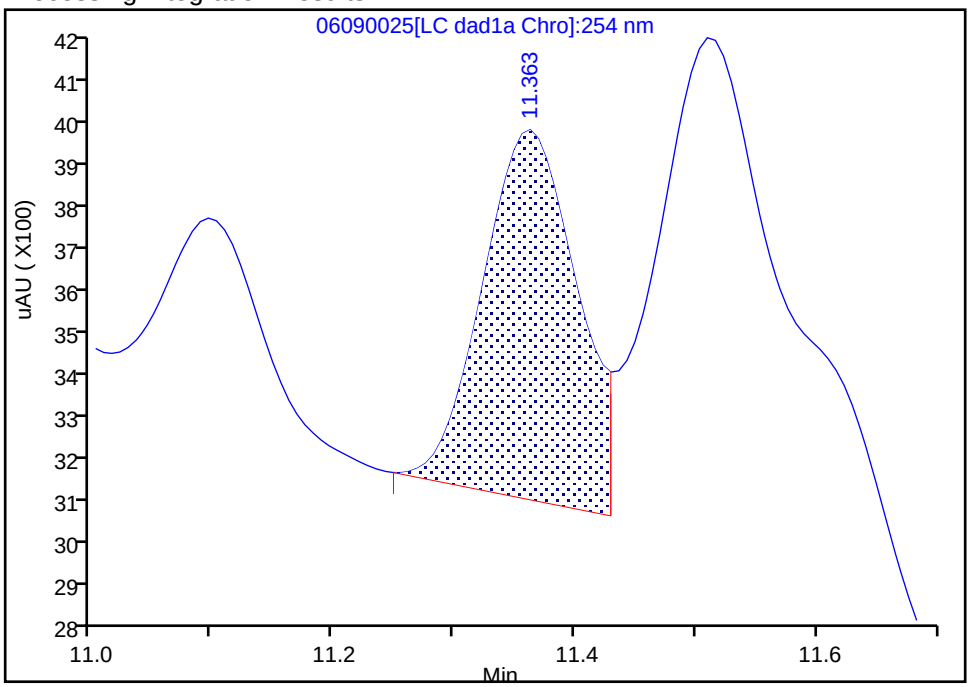
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

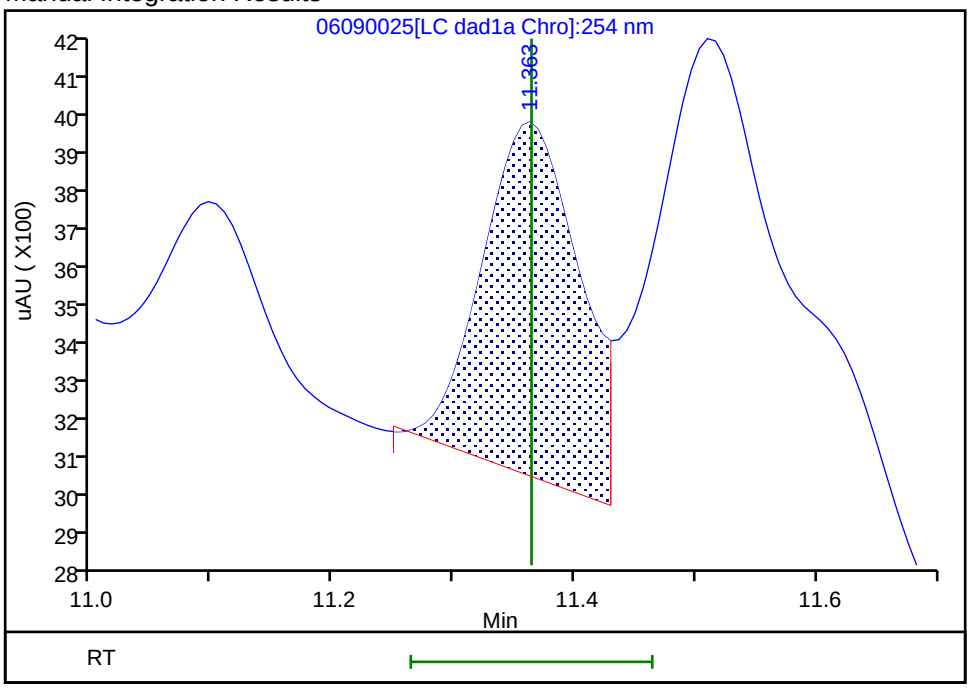
Processing Integration Results

RT: 11.36
Area: 4497
Amount: 0.021732
Amount Units: ug/mL



Manual Integration Results

RT: 11.36
Area: 4886
Amount: 0.023612
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:55:49

Audit Action: Assigned New Baseline Audit Reason: Baseline

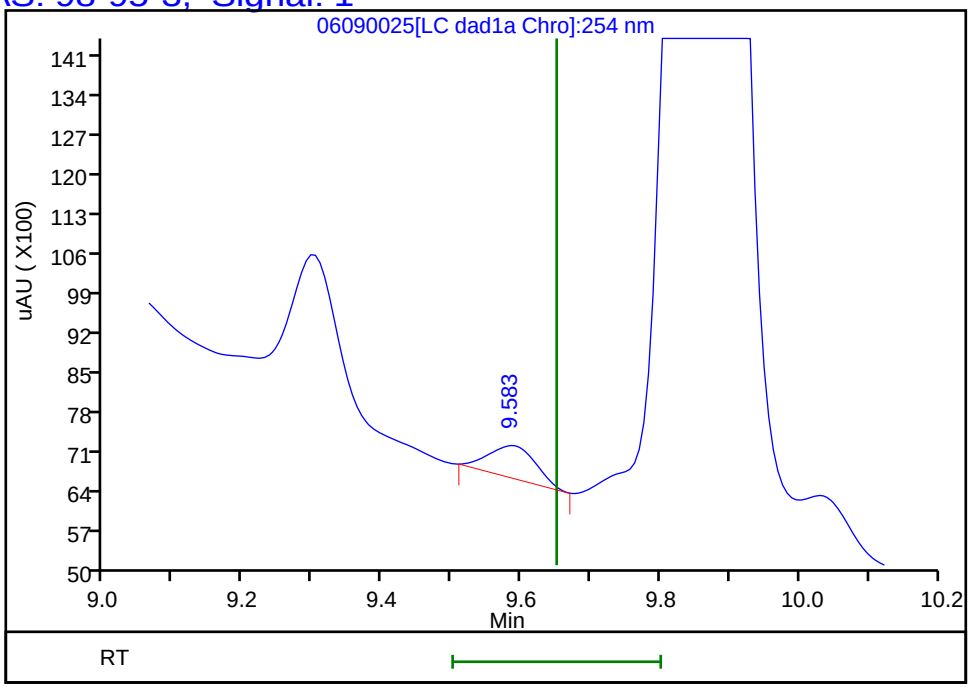
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.58
Response: 2689
Amount: 0.013770



Reviewer: zhangji, 10-Jun-2021 12:55:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

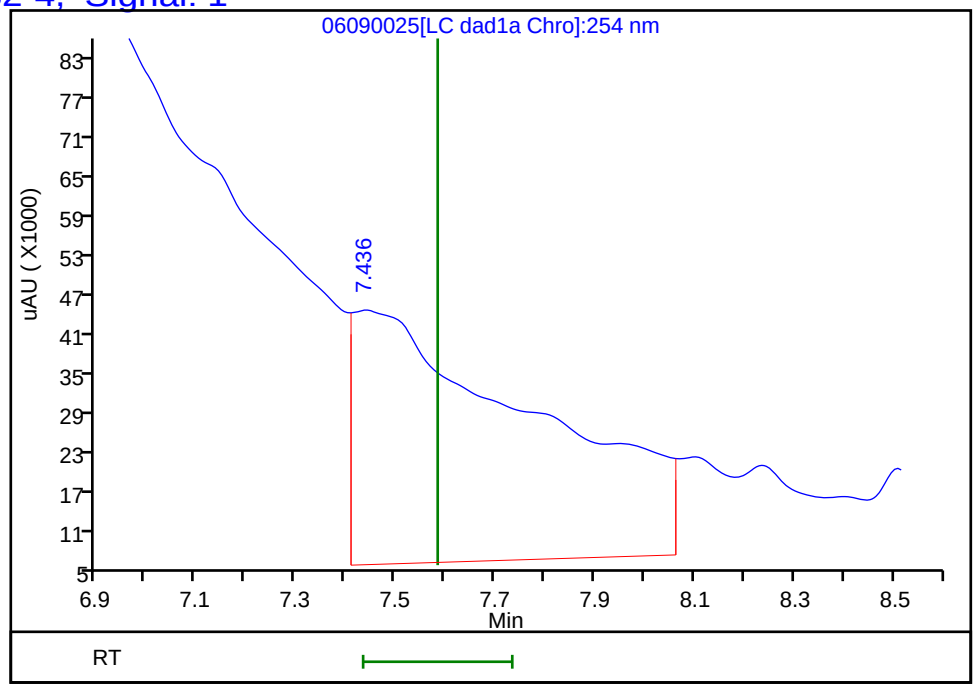
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4, Signal: 1

RT: 7.44
Response: 971142
Amount: 9.139174



Reviewer: zhangji, 10-Jun-2021 12:55:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

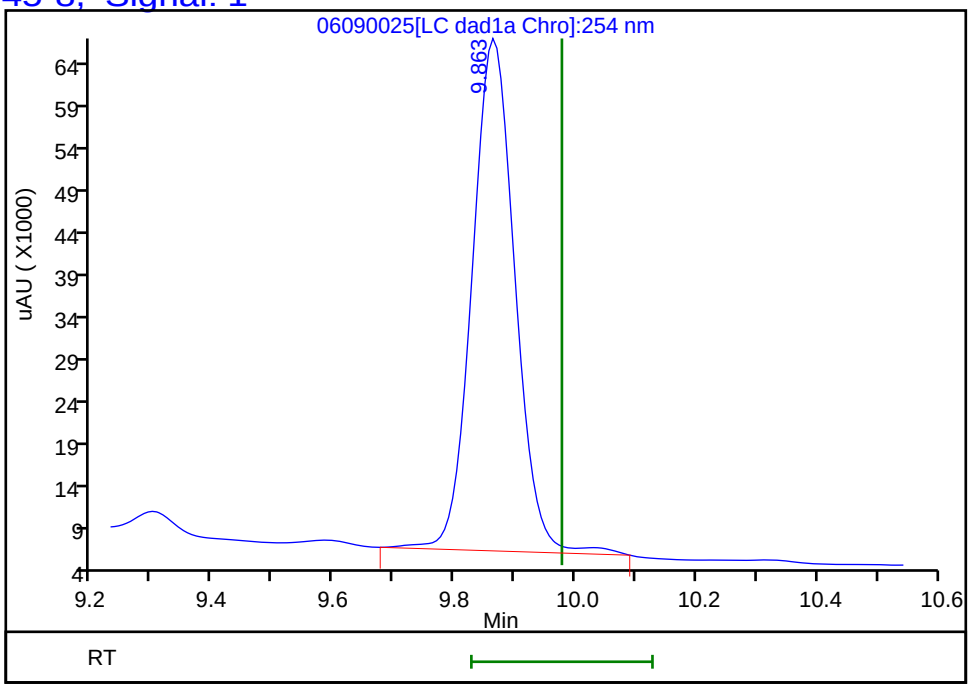
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090025.d				
Injection Date:	09-Jun-2021 21:46:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.86
Response: 297586
Amount: 1.725937



Reviewer: zhangji, 10-Jun-2021 12:55:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Client Sample ID: OS001-DP06-45 Lab Sample ID: 280-149356-6

Matrix: Water Lab File ID: 06100017.D

Analysis Method: 8330A Date Collected: 06/02/2021 13:05

Extraction Method: 3535 Date Extracted: 06/08/2021 18:12

Sample wt/vol: 503.6(mL) Date Analyzed: 06/10/2021 22:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 539386 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	0.099	U	0.11	0.099	0.037
118-96-7	*2,4,6-Trinitrotoluene*	*0.22*	*J1*	*0.11*	0.099	*0.045*
606-20-2	2,6-Dinitrotoluene	0.079	U	0.099	0.079	0.040
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.46*	*J1*	*0.11*	0.099	*0.050*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.30*	*J1*	*0.15*	0.12	*0.057*
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.099

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	86		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100017.D				
Lims ID:	280-149356-A-6-A				
Client ID:	OS001-DP06-45				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 22:32:30	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-6-A				
Misc. Info.:	280-0102249-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				
First Level Reviewer: zhangji		Date:	11-Jun-2021 12:37:04		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		6.646			ND	
7 MNX	1		7.429			ND	
8 RDX	1		8.813			ND	
9 Nitrobenzene	1		11.859			ND	
$ 10 1,2-Dinitrobenzene	1	12.914	12.952	-0.038	45735	0.1722	
12 1,3-Dinitrobenzene	1		15.372			ND	
14 o-Nitrotoluene	1	16.594	16.599	-0.005	2584	0.0104	M
15 p-Nitrotoluene	1		16.886			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.294	17.346	-0.052	8956	0.0302	
17 m-Nitrotoluene	1		17.859			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.227	18.246	-0.019	19173	0.0460	
19 1,3,5-Trinitrobenzene	1	18.734	18.772	-0.038	233314	0.5626	
20 2,6-Dinitrotoluene	1		20.012			ND	
21 2,4-Dinitrotoluene	1		20.486			ND	
22 Tetryl	1		24.113			ND	
23 2,4,6-Trinitrotoluene	1	25.014	25.093	-0.079	9906	0.0224	

QC Flag Legend

Processing Flags

Review Flags

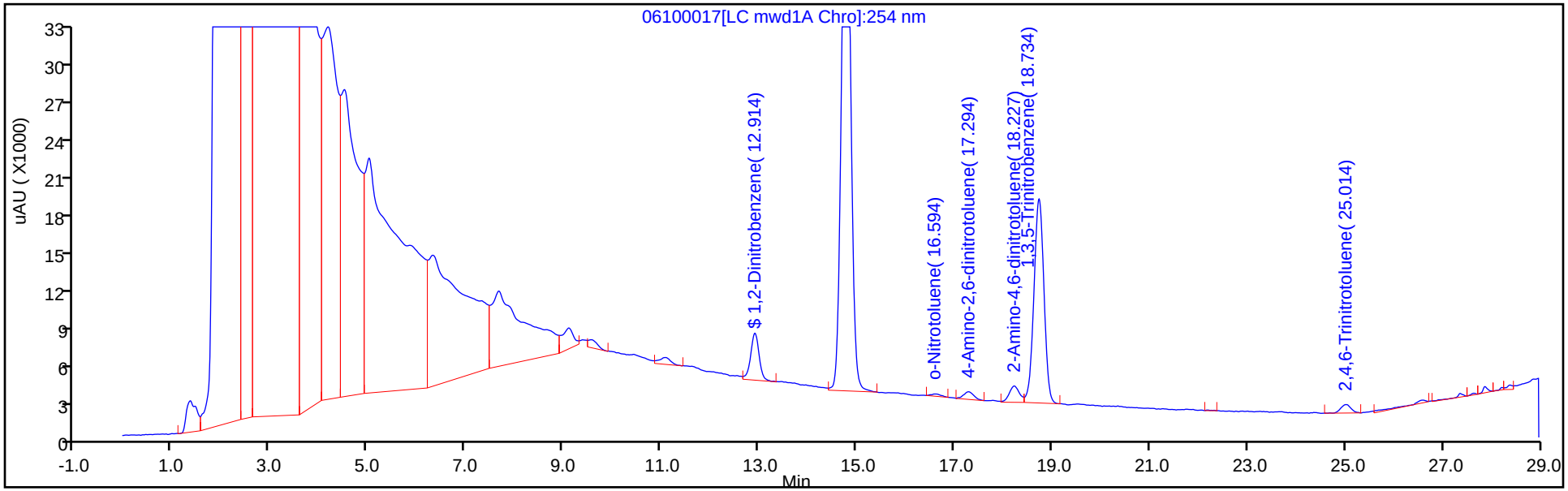
M - Manually Integrated

Report Date: 11-Jun-2021 12:42:18 Chrom Revision: 2.3 13-May-2021 07:57:40

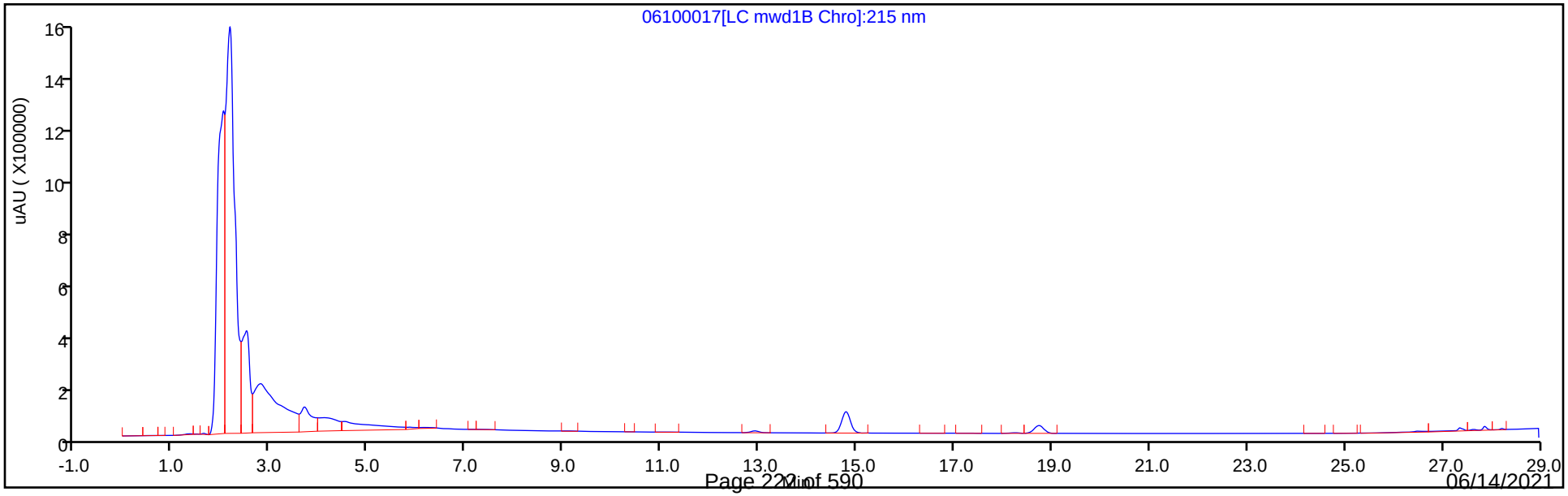
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100017.D				
Injection Date:	10-Jun-2021 22:32:30	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6	Worklist Smp#:	17
Client ID:	OS001-DP06-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100017.D				
Lims ID:	280-149356-A-6-A				
Client ID:	OS001-DP06-45				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 22:32:30	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-6-A				
Misc. Info.:	280-0102249-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				

First Level Reviewer: zhangji Date: 11-Jun-2021 12:37:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1722	86.08

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

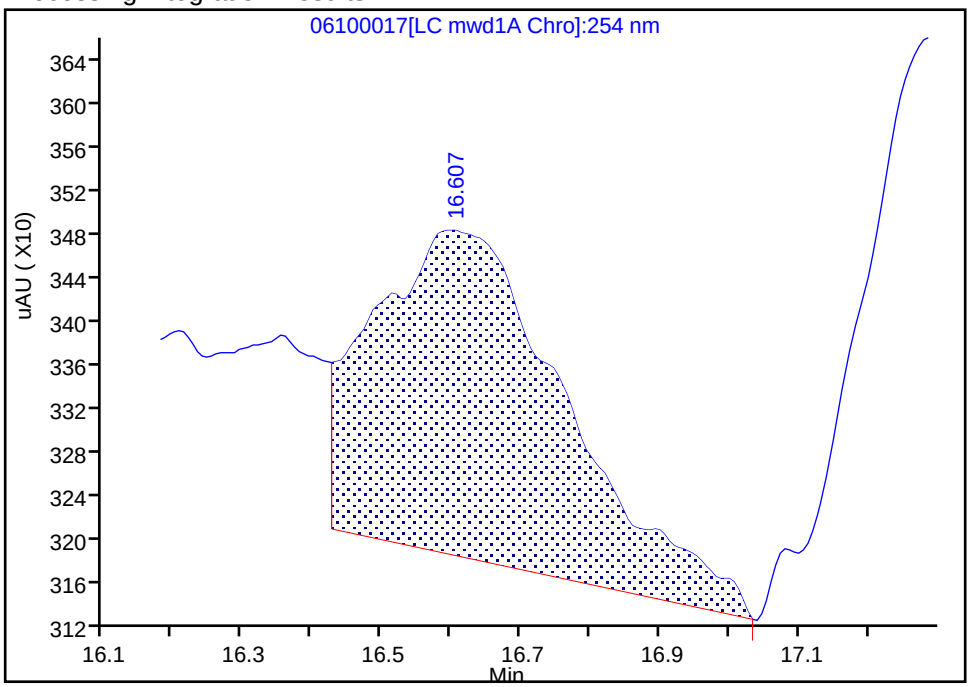
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100017.D				
Injection Date:	10-Jun-2021 22:32:30	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-6-A	Lab Sample ID:	280-149356-6		
Client ID:	OS001-DP06-45				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

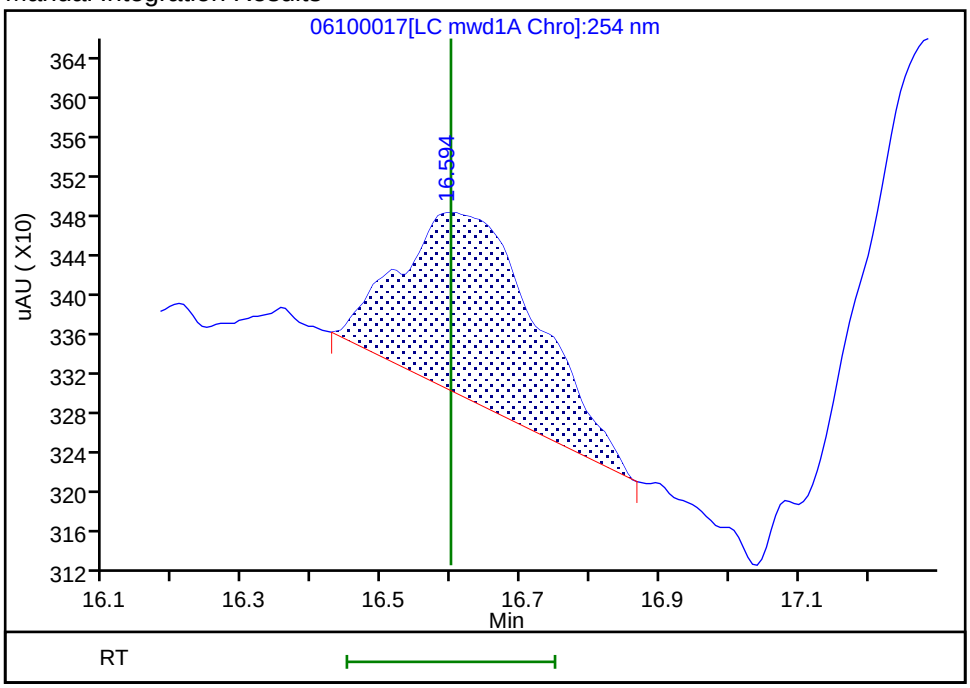
Processing Integration Results

RT: 16.61
Area: 5803
Amount: 0.023308
Amount Units: ug/ml



Manual Integration Results

RT: 16.59
Area: 2584
Amount: 0.010379
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:36:56

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: NW050R-DP06-20
Lab Sample ID: 280-149356-7
Matrix: Water
Lab File ID: 06090026.D
Analysis Method: 8330A
Date Collected: 06/01/2021 13:20
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 512.8(mL)
Date Analyzed: 06/09/2021 22:09
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.20	0.20	0.082
99-65-0	1,3-Dinitrobenzene	0.098	U	0.11	0.098	0.036
118-96-7	2,4,6-Trinitrotoluene	0.098	U	0.11	0.098	0.044
121-14-2	2,4-Dinitrotoluene	0.078	U	0.098	0.078	0.027
606-20-2	2,6-Dinitrotoluene	0.078	U M	0.098	0.078	0.039
35572-78-2	2-Amino-4,6-dinitrotoluene	0.098	U	0.11	0.098	0.049
88-72-2	2-Nitrotoluene	0.20	U	0.20	0.20	0.083
99-08-1	3-Nitrotoluene	0.39	U	0.39	0.39	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.056
99-99-0	4-Nitrotoluene	0.39	U M	0.40	0.39	0.098
2691-41-0	HMX	0.20	U	0.20	0.20	0.085
5755-27-1	MNX	0.39	U	2.0	0.39	0.15
98-95-3	Nitrobenzene	0.20	U	0.20	0.20	0.089
121-82-4	RDX	0.20	U	0.20	0.20	0.050
479-45-8	Tetryl	0.098	U	0.11	0.098	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	86	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090026.D				
Lims ID:	280-149356-A-7-A				
Client ID:	NW050R-DP06-20				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 22:09:24	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-7-A				
Misc. Info.:	280-0102208-026				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	10-Jun-2021 12:56:05		

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.611			ND	
	6 MNX	1		7.214			ND	
	7 RDX	1		7.584			ND	
$	9 1,2-Dinitrobenzene	1	8.502	8.511	-0.009	21989	0.1715	M
	10 1,3,5-Trinitrobenzene	1		8.637			ND	
	11 1,3-Dinitrobenzene	1		9.264			ND	
	12 Nitrobenzene	1		9.651			ND	
	14 Tetryl	1		9.977			ND	
	16 2,4,6-Trinitrotoluene	1		10.897			ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.104			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.364			ND	
	19 2,6-Dinitrotoluene	1		11.531			ND	U
	20 2,4-Dinitrotoluene	1		11.704			ND	
	21 o-Nitrotoluene	1		12.571			ND	
	22 p-Nitrotoluene	1		13.011			ND	U
	23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

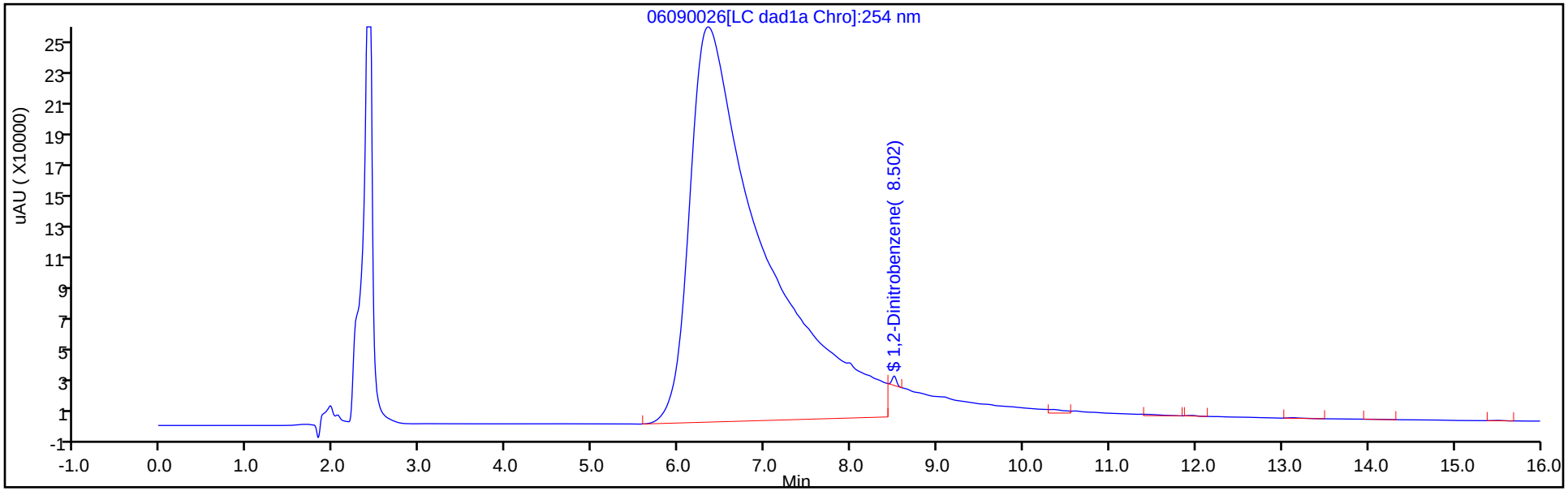
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:10 Chrom Revision: 2.3 13-May-2021 07:57:40

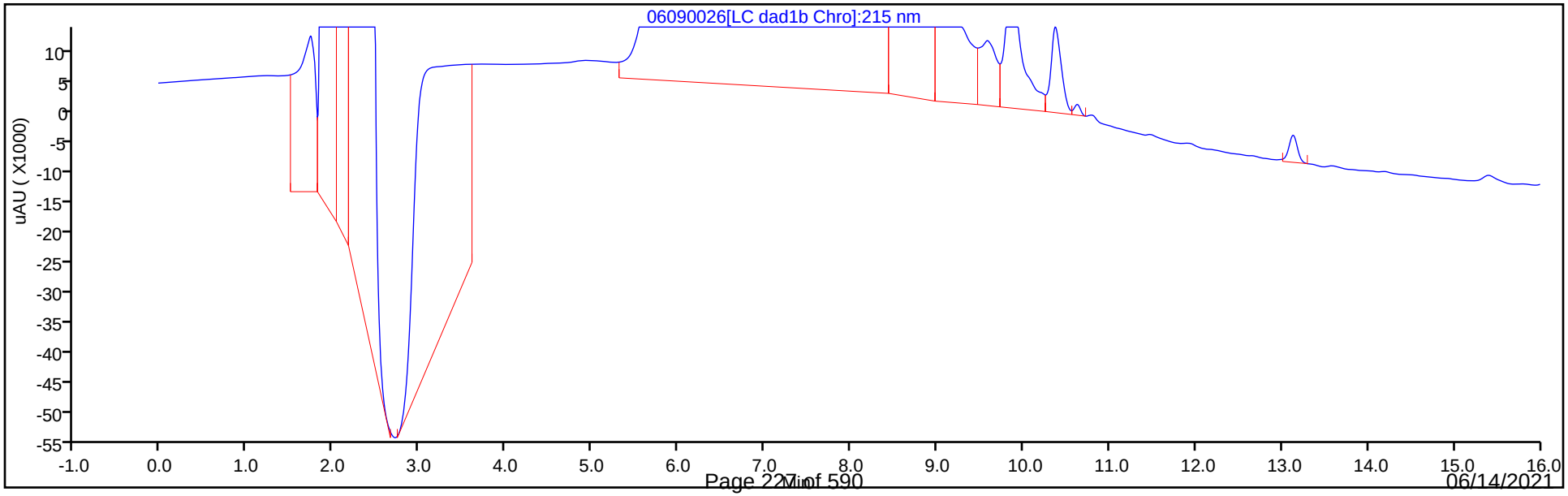
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090026.d				
Injection Date:	09-Jun-2021 22:09:24	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-7-A	Lab Sample ID:	280-149356-7	Worklist Smp#:	26
Client ID:	NW050R-DP06-20				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090026.D				
Lims ID:	280-149356-A-7-A				
Client ID:	NW050R-DP06-20				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 22:09:24	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-7-A				
Misc. Info.:	280-0102208-026				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1633	

First Level Reviewer: zhangji Date: 10-Jun-2021 12:56:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1715	85.75

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

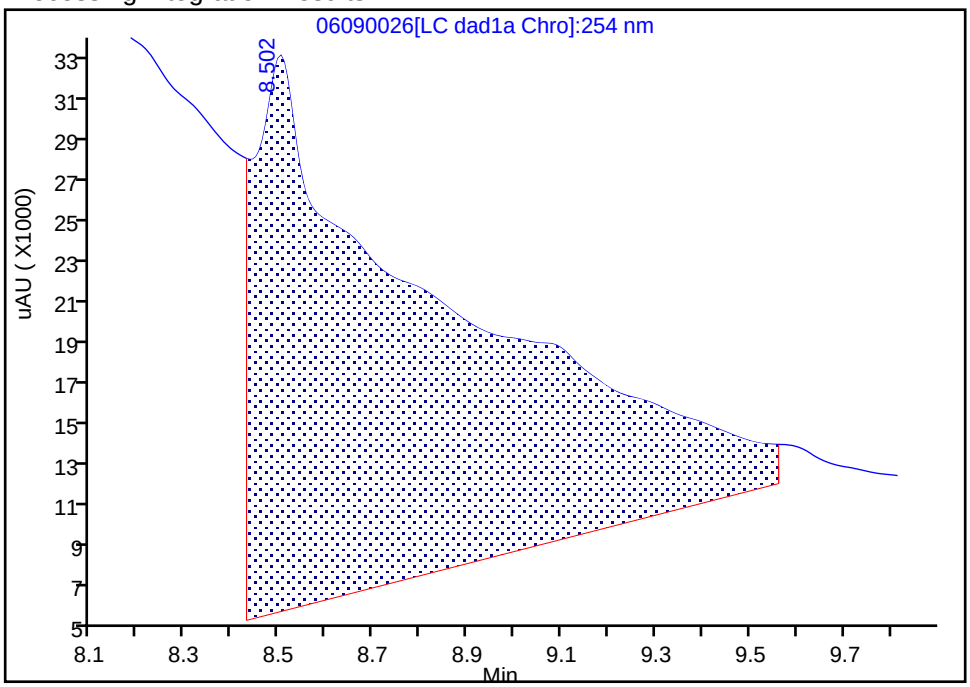
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090026.d				
Injection Date:	09-Jun-2021 22:09:24	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-7-A	Lab Sample ID:	280-149356-7		
Client ID:	NW050R-DP06-20				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

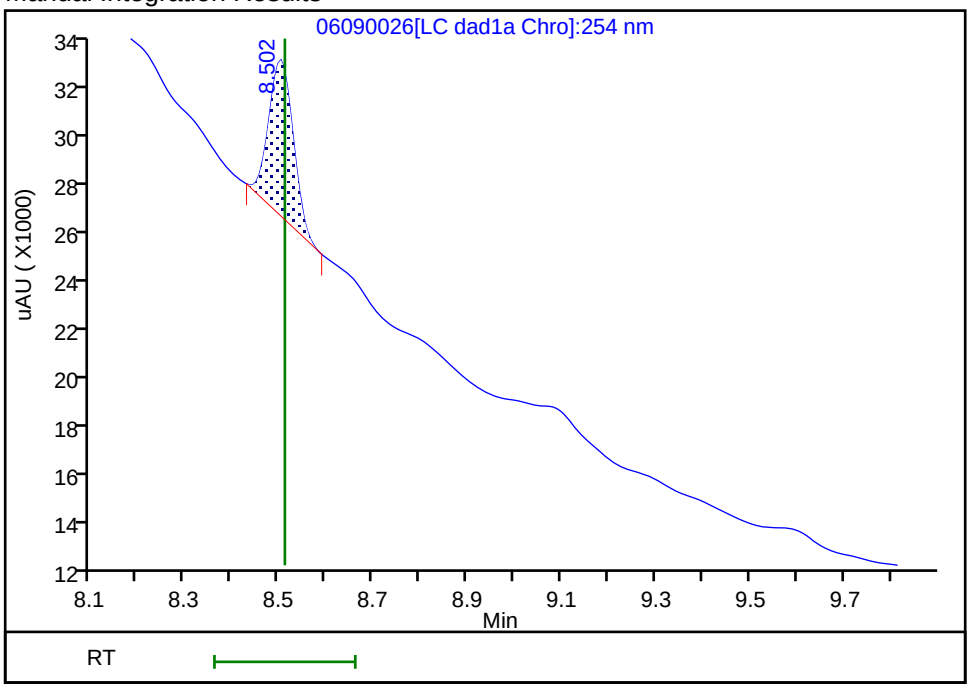
Processing Integration Results

RT: 8.50
Area: 742149
Amount: 5.788217
Amount Units: ug/mL



Manual Integration Results

RT: 8.50
Area: 21989
Amount: 0.171498
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:56:04
Audit Action: Manually Integrated Audit Reason: Baseline

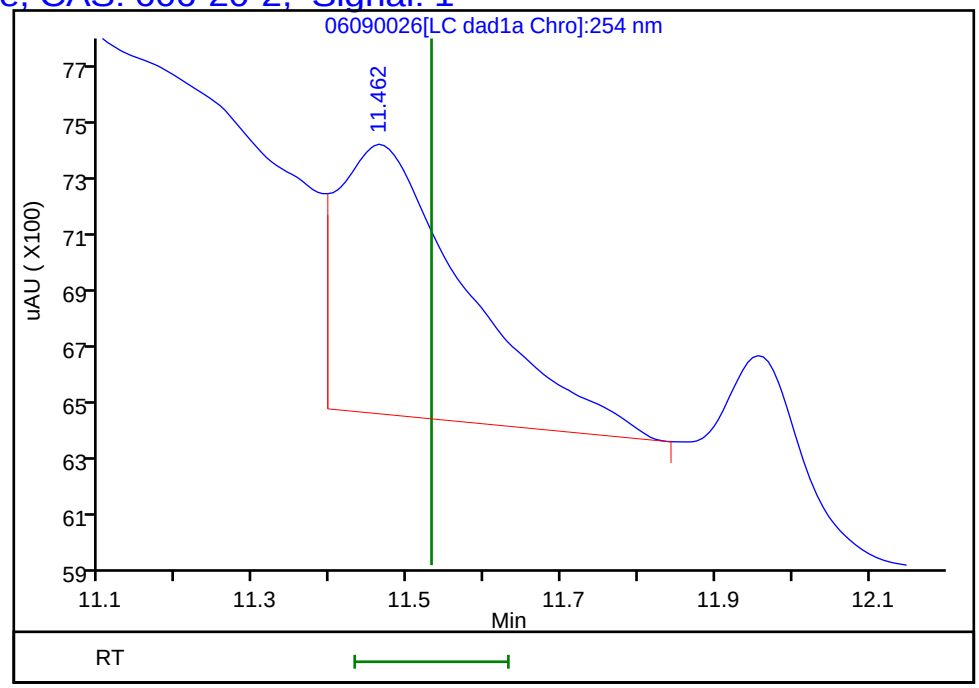
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090026.d				
Injection Date:	09-Jun-2021 22:09:24	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-7-A	Lab Sample ID:	280-149356-7		
Client ID:	NW050R-DP06-20				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

19 2,6-Dinitrotoluene, CAS: 606-20-2, Signal: 1

RT: 11.46
Response: 10996
Amount: 0.076853



Reviewer: zhangji, 10-Jun-2021 12:56:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

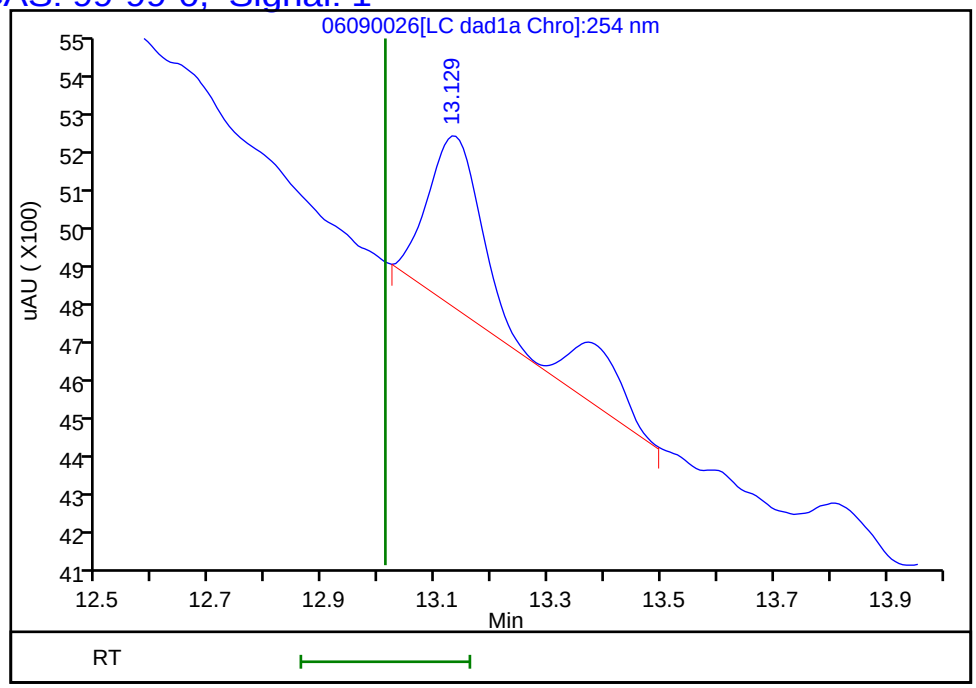
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090026.d				
Injection Date:	09-Jun-2021 22:09:24	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-7-A	Lab Sample ID:	280-149356-7		
Client ID:	NW050R-DP06-20				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.13
Response: 3798
Amount: 0.033937



Reviewer: zhangji, 10-Jun-2021 12:56:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: NW050R-DP06-35
Lab Sample ID: 280-149356-8
Matrix: Water
Lab File ID: 06090027.D
Analysis Method: 8330A
Date Collected: 06/01/2021 14:05
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 493.7(mL)
Date Analyzed: 06/09/2021 22:32
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.17	J M	0.21	0.20	0.085
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.046
121-14-2	2,4-Dinitrotoluene	0.081	U	0.10	0.081	0.028
606-20-2	2,6-Dinitrotoluene	0.081	U	0.10	0.081	0.041
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.087
99-08-1	3-Nitrotoluene	0.41	U	0.41	0.41	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.41	U	0.42	0.41	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.089
5755-27-1	MNX	0.41	U	2.0	0.41	0.16
98-95-3	Nitrobenzene	0.20	U M	0.21	0.20	0.092
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	92	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090027.D				
Lims ID:	280-149356-A-8-A				
Client ID:	NW050R-DP06-35				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 22:32:26	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-8-A				
Misc. Info.:	280-0102208-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	10-Jun-2021 12:56:27		

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.611			ND	
	6 MNX	1		7.214			ND	
	7 RDX	1		7.584			ND	
$	9 1,2-Dinitrobenzene	1	8.505	8.511	-0.006	23531	0.1835	M
	10 1,3,5-Trinitrobenzene	1	8.665	8.637	0.028	3660	0.0166	M
	11 1,3-Dinitrobenzene	1		9.264			ND	
	12 Nitrobenzene	1		9.651			ND	U
	14 Tetryl	1		9.977			ND	
	16 2,4,6-Trinitrotoluene	1		10.897			ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.104			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.364			ND	
	19 2,6-Dinitrotoluene	1		11.531			ND	
	20 2,4-Dinitrotoluene	1		11.704			ND	
	21 o-Nitrotoluene	1		12.571			ND	
	22 p-Nitrotoluene	1		13.011			ND	
	23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

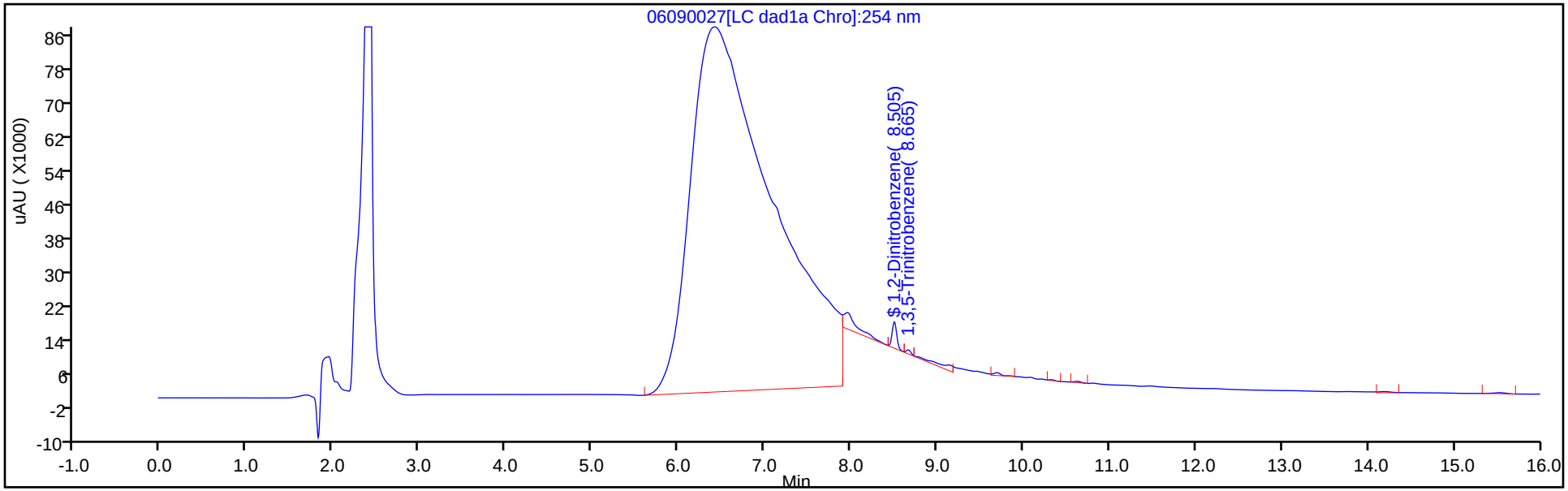
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:10 Chrom Revision: 2.3 13-May-2021 07:57:40

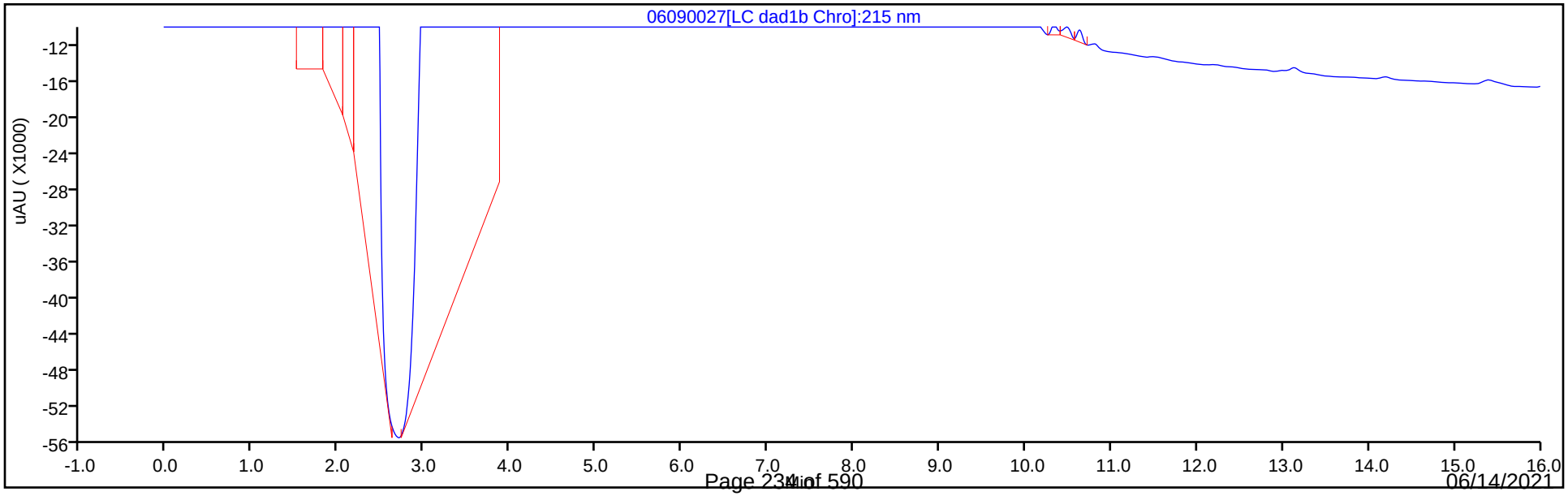
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090027.d				
Injection Date:	09-Jun-2021 22:32:26	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-8-A	Lab Sample ID:	280-149356-8	Worklist Smp#:	27
Client ID:	NW050R-DP06-35				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090027.D				
Lims ID:	280-149356-A-8-A				
Client ID:	NW050R-DP06-35				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 22:32:26	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-8-A				
Misc. Info.:	280-0102208-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 10-Jun-2021 12:56:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1835	91.76

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

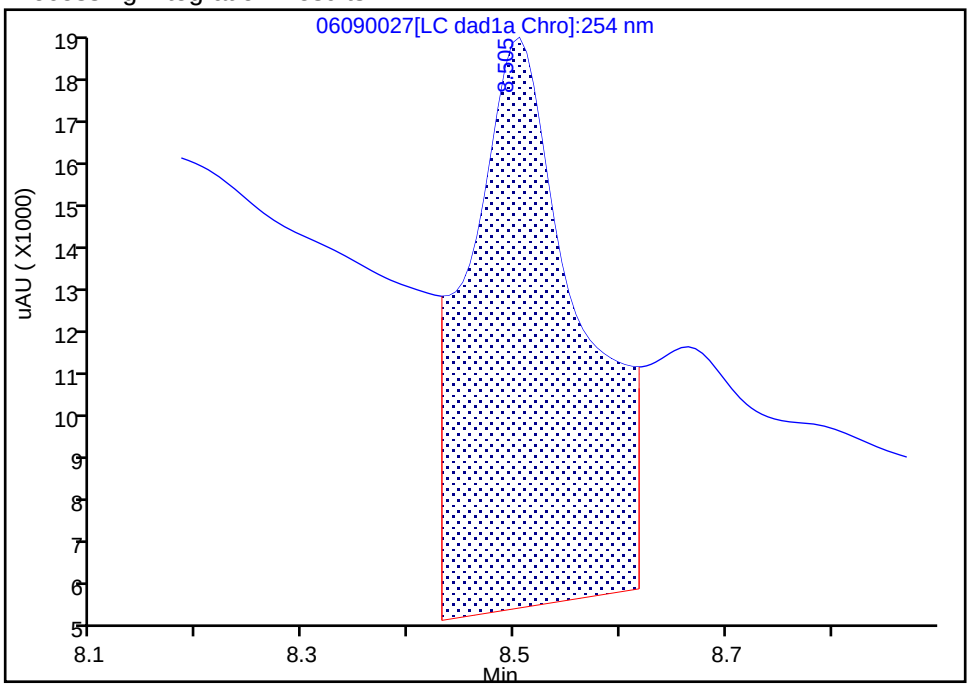
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090027.d				
Injection Date:	09-Jun-2021 22:32:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-8-A	Lab Sample ID:	280-149356-8		
Client ID:	NW050R-DP06-35				
Operator ID:	JZ	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

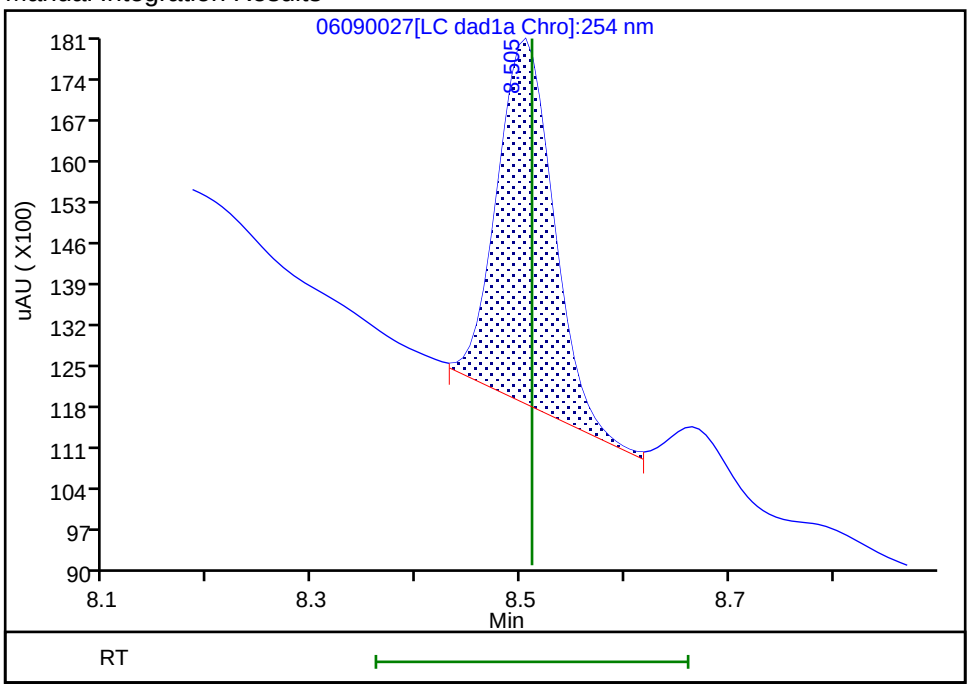
Processing Integration Results

RT: 8.50
Area: 88010
Amount: 0.686413
Amount Units: ug/mL



Manual Integration Results

RT: 8.50
Area: 23531
Amount: 0.183525
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:56:15
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

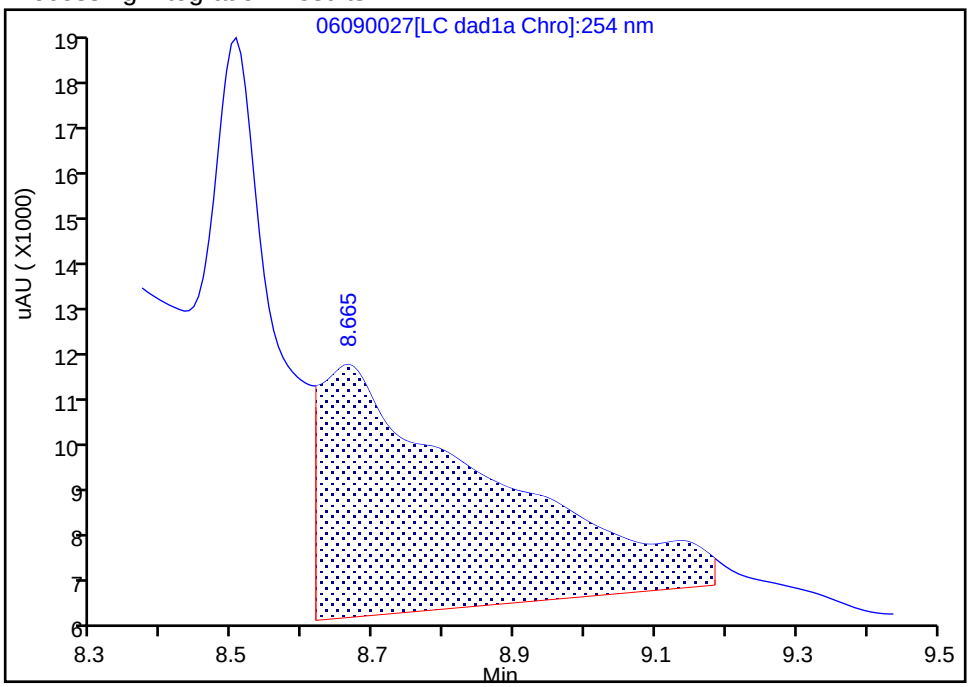
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090027.d				
Injection Date:	09-Jun-2021 22:32:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-8-A	Lab Sample ID:	280-149356-8		
Client ID:	NW050R-DP06-35				
Operator ID:	JZ	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

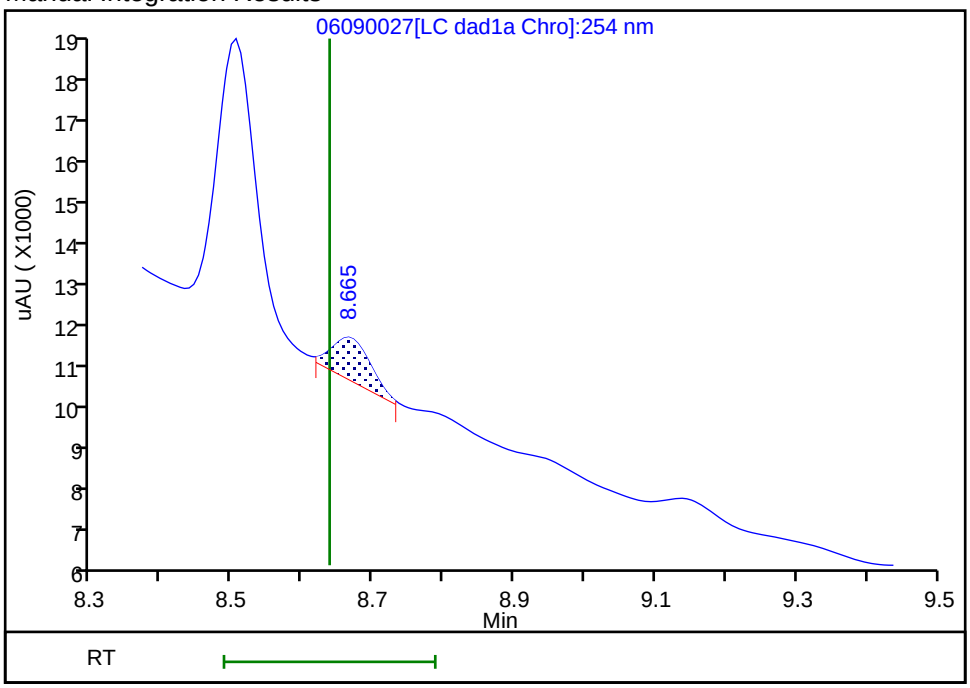
Processing Integration Results

RT: 8.66
Area: 85325
Amount: 0.387282
Amount Units: ug/mL



Manual Integration Results

RT: 8.66
Area: 3660
Amount: 0.016612
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:56:18

Audit Action: Split an Integrated Peak Audit Reason: Baseline

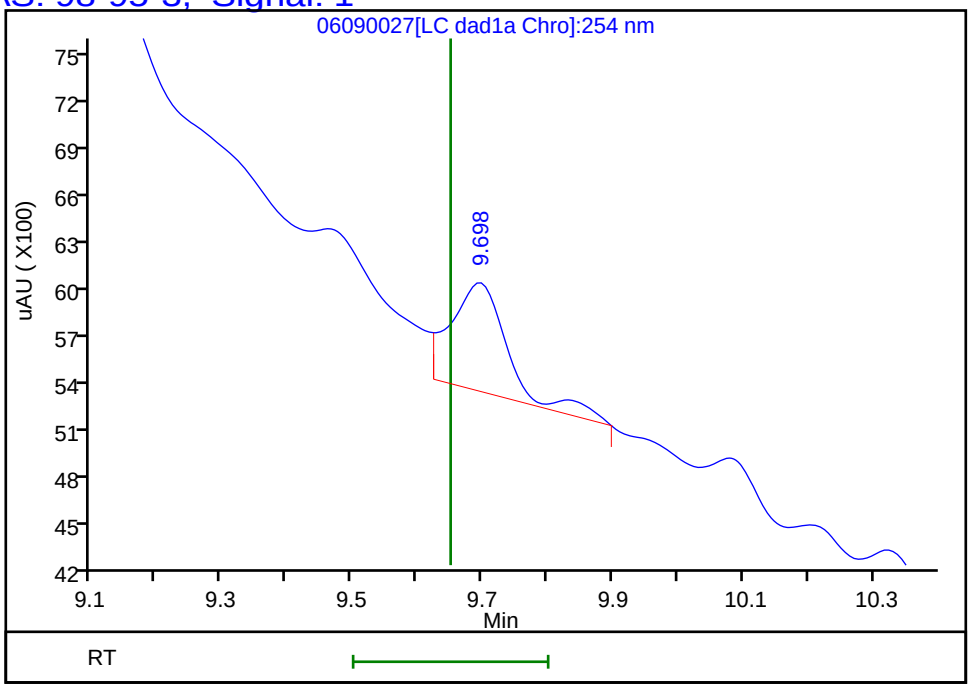
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090027.d				
Injection Date:	09-Jun-2021 22:32:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-8-A	Lab Sample ID:	280-149356-8		
Client ID:	NW050R-DP06-35				
Operator ID:	JZ	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.70
Response: 4084
Amount: 0.020913



Reviewer: zhangji, 10-Jun-2021 12:56:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: NW050R-DP06-35
Lab Sample ID: 280-149356-8
Matrix: Water
Lab File ID: 06100018.D
Analysis Method: 8330A
Date Collected: 06/01/2021 14:05
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 493.7(mL)
Date Analyzed: 06/10/2021 23:07
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539386
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	87		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100018.D
Lims ID: 280-149356-A-8-A
Client ID: NW050R-DP06-35
Sample Type: Client
Inject. Date: 10-Jun-2021 23:07:29 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-149356-A-8-A
Misc. Info.: 280-0102249-018
Operator ID: JZ Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 11-Jun-2021 12:42:16 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1619

First Level Reviewer: zhangji Date: 11-Jun-2021 12:37:23

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	6.600	6.646	-0.046	2193	0.007636	M
7 MNX	1		7.429			ND	
8 RDX	1		8.813			ND	
9 Nitrobenzene	1		11.859			ND	
$ 10 1,2-Dinitrobenzene	1	12.920	12.952	-0.032	46168	0.1738	
12 1,3-Dinitrobenzene	1		15.372			ND	
14 o-Nitrotoluene	1		16.599			ND	
15 p-Nitrotoluene	1		16.886			ND	
16 4-Amino-2,6-dinitrotoluene	1		17.346			ND	U
17 m-Nitrotoluene	1		17.859			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.234	18.246	-0.012	4378	0.008013	
19 1,3,5-Trinitrobenzene	1	18.780	18.772	0.008	5815	0.007158	
20 2,6-Dinitrotoluene	1		20.012			ND	
21 2,4-Dinitrotoluene	1		20.486			ND	
22 Tetryl	1		24.113			ND	
23 2,4,6-Trinitrotoluene	1		25.093			ND	

QC Flag Legend

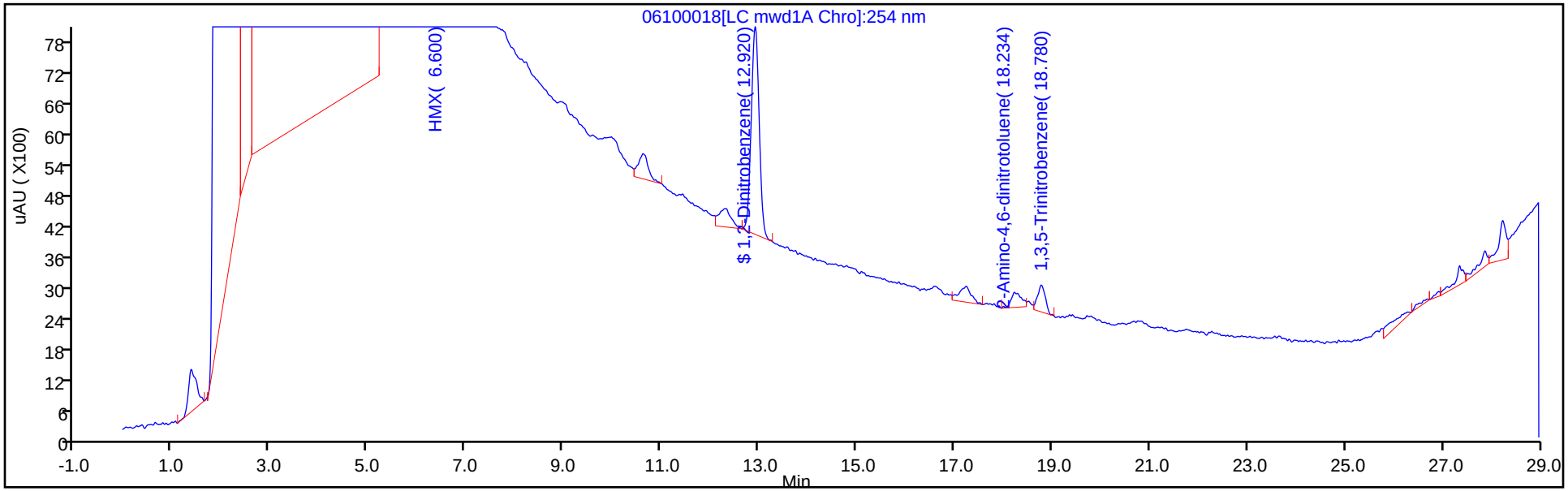
Processing Flags
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 11-Jun-2021 12:42:17 Chrom Revision: 2.3 13-May-2021 07:57:40

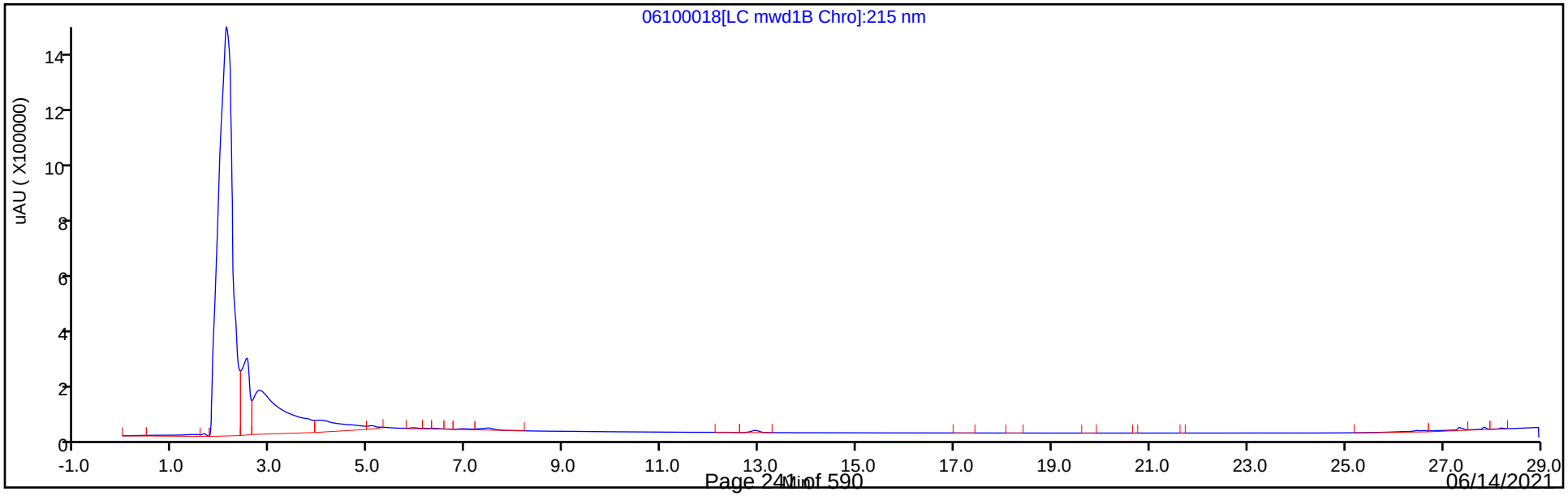
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100018.D				
Injection Date:	10-Jun-2021 23:07:29	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-149356-A-8-A	Lab Sample ID:	280-149356-8	Worklist Smp#:	18
Client ID:	NW050R-DP06-35				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100018.D				
Lims ID:	280-149356-A-8-A				
Client ID:	NW050R-DP06-35				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 23:07:29	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-8-A				
Misc. Info.:	280-0102249-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				

First Level Reviewer: zhangji Date: 11-Jun-2021 12:37:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1738	86.89

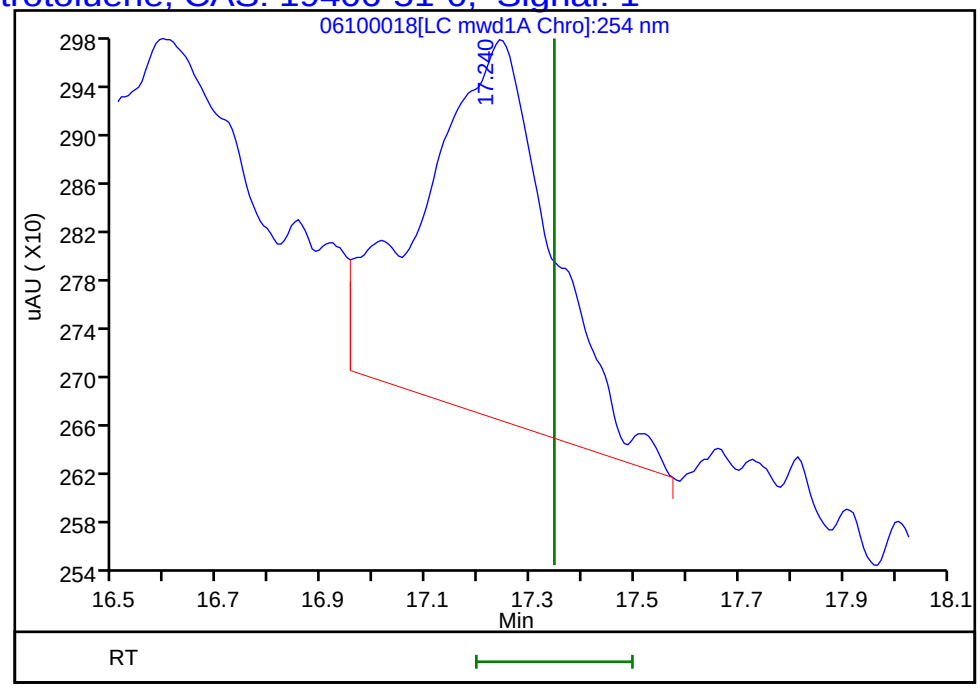
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100018.D				
Injection Date:	10-Jun-2021 23:07:29	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-8-A	Lab Sample ID:	280-149356-8		
Client ID:	NW050R-DP06-35				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 17.24
Response: 5371
Amount: 0.018102



Reviewer: zhangji, 11-Jun-2021 12:37:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

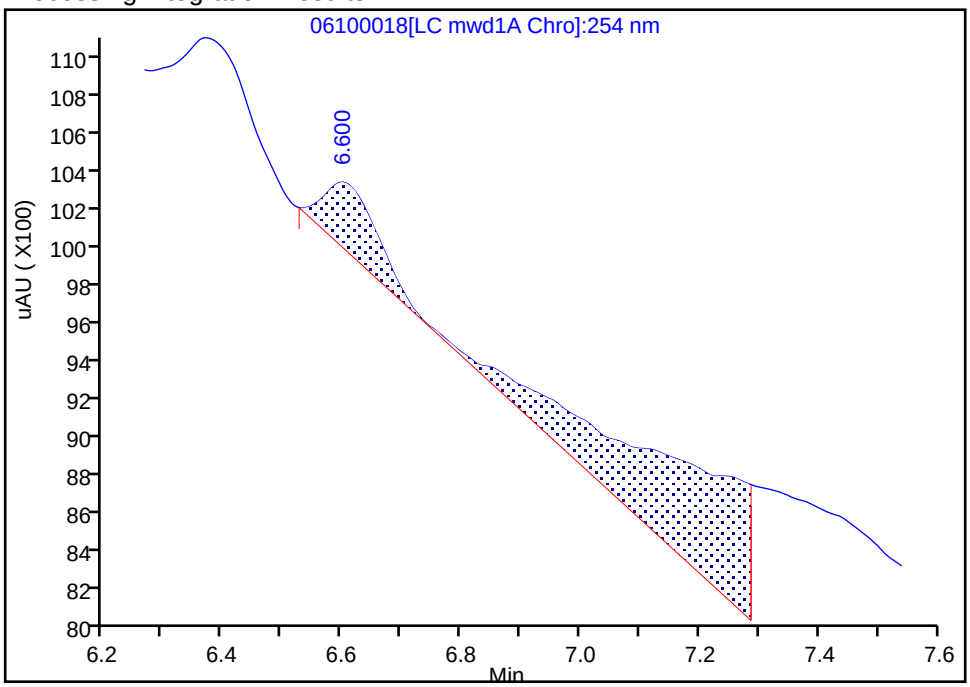
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100018.D				
Injection Date:	10-Jun-2021 23:07:29	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-8-A	Lab Sample ID:	280-149356-8		
Client ID:	NW050R-DP06-35				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

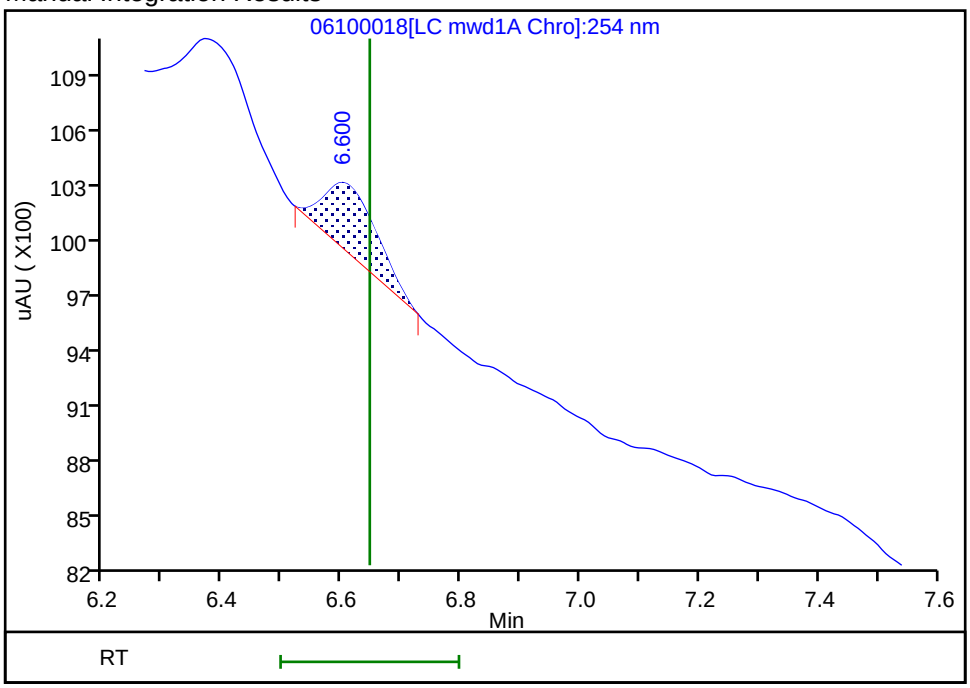
Processing Integration Results

RT: 6.60
Area: 11554
Amount: 0.066594
Amount Units: ug/ml



Manual Integration Results

RT: 6.60
Area: 2193
Amount: 0.007636
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:37:16

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: NW050R-DP06-60
Lab Sample ID: 280-149356-9
Matrix: Water
Lab File ID: 06090028.D
Analysis Method: 8330A
Date Collected: 06/01/2021 15:00
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 502.5(mL)
Date Analyzed: 06/09/2021 22:55
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.050
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.085
99-08-1	3-Nitrotoluene	0.40	U	0.40	0.40	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.087
5755-27-1	MNX	0.40	U	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U M	0.21	0.20	0.091
121-82-4	RDX	0.20	U	0.21	0.20	0.051
479-45-8	Tetryl	0.10	U M	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	88	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090028.D				
Lims ID:	280-149356-A-9-A				
Client ID:	NW050R-DP06-60				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 22:55:26	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-9-A				
Misc. Info.:	280-0102208-028				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	10-Jun-2021 12:56:40		

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.611			ND	
	6 MNX	1		7.214			ND	
	7 RDX	1		7.584			ND	
$	9 1,2-Dinitrobenzene	1	8.507	8.511	-0.004	22532	0.1757	M
	10 1,3,5-Trinitrobenzene	1		8.637			ND	
	11 1,3-Dinitrobenzene	1		9.264			ND	
	12 Nitrobenzene	1		9.651			ND	U
	14 Tetryl	1		9.977			ND	U
	16 2,4,6-Trinitrotoluene	1		10.897			ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.104			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.364			ND	
	19 2,6-Dinitrotoluene	1		11.531			ND	
	20 2,4-Dinitrotoluene	1		11.704			ND	
	21 o-Nitrotoluene	1		12.571			ND	
	22 p-Nitrotoluene	1		13.011			ND	
	23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

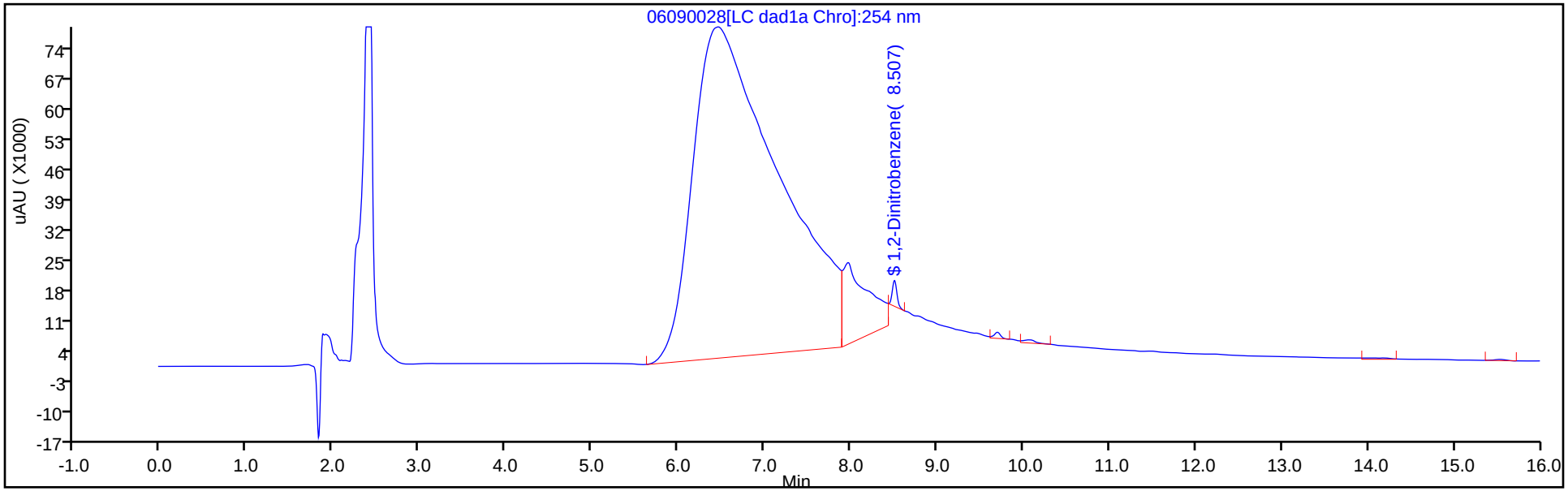
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:11 Chrom Revision: 2.3 13-May-2021 07:57:40

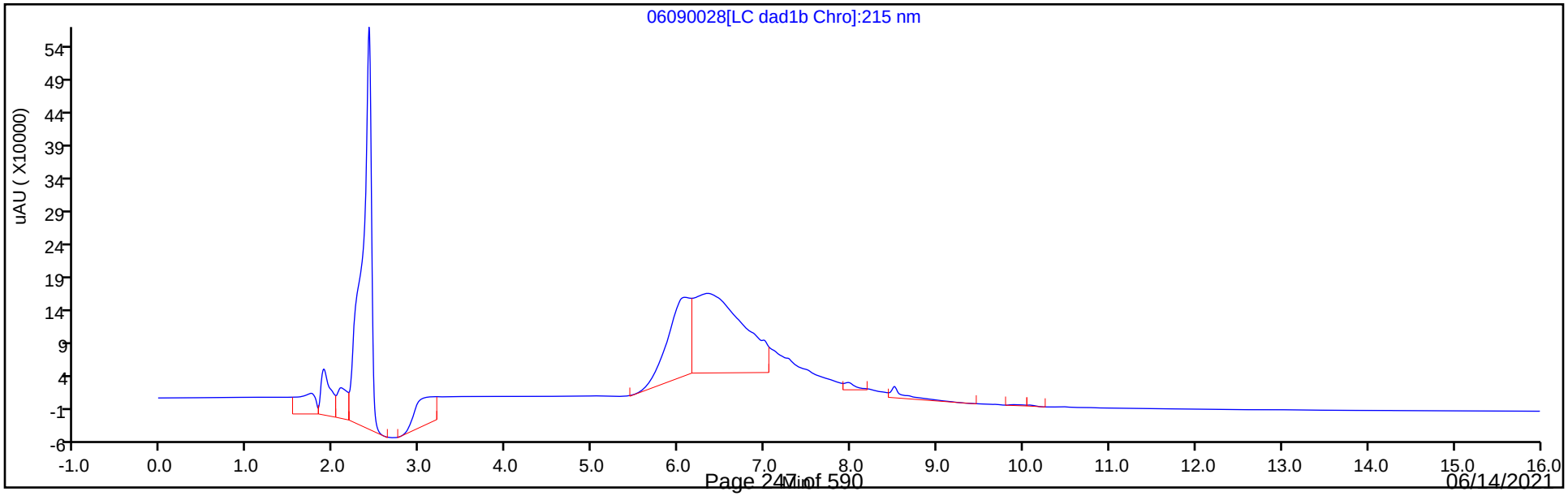
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090028.d				
Injection Date:	09-Jun-2021 22:55:26	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-9-A	Lab Sample ID:	280-149356-9	Worklist Smp#:	28
Client ID:	NW050R-DP06-60				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090028.D				
Lims ID:	280-149356-A-9-A				
Client ID:	NW050R-DP06-60				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 22:55:26	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-9-A				
Misc. Info.:	280-0102208-028				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 10-Jun-2021 12:56:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1757	87.87

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

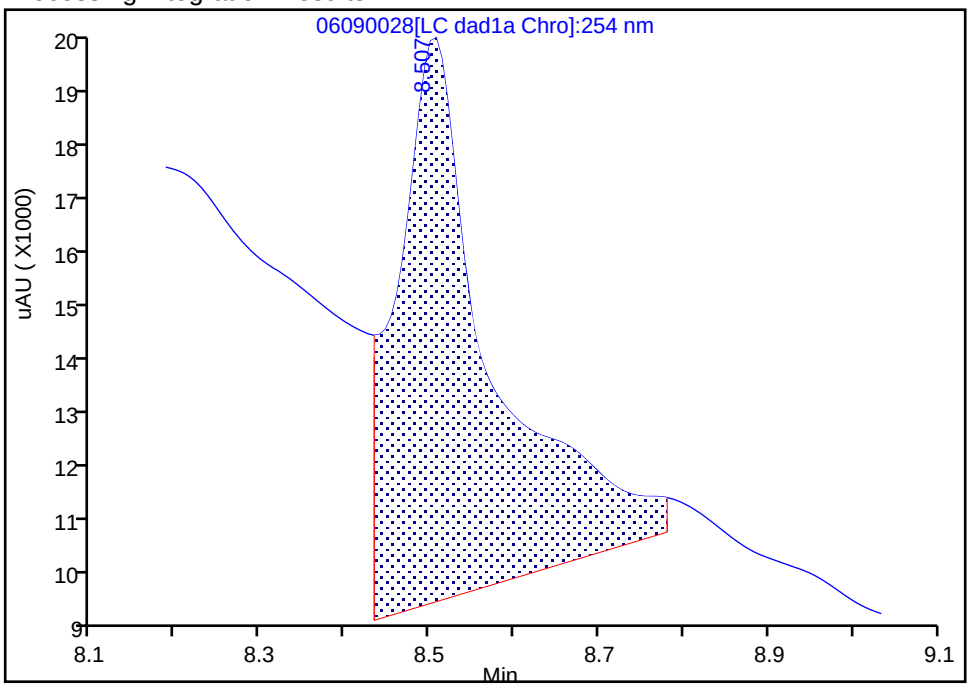
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090028.d				
Injection Date:	09-Jun-2021 22:55:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-9-A	Lab Sample ID:	280-149356-9		
Client ID:	NW050R-DP06-60				
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

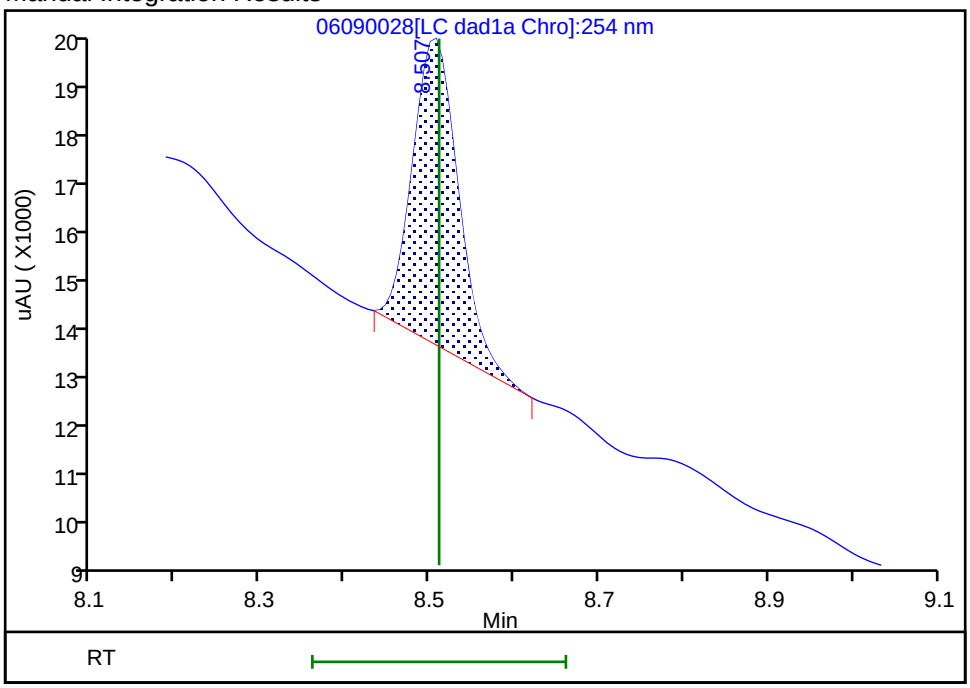
Processing Integration Results

RT: 8.51
Area: 79457
Amount: 0.619706
Amount Units: ug/mL



Manual Integration Results

RT: 8.51
Area: 22532
Amount: 0.175733
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 12:56:38

Audit Action: Manually Integrated Audit Reason: Baseline

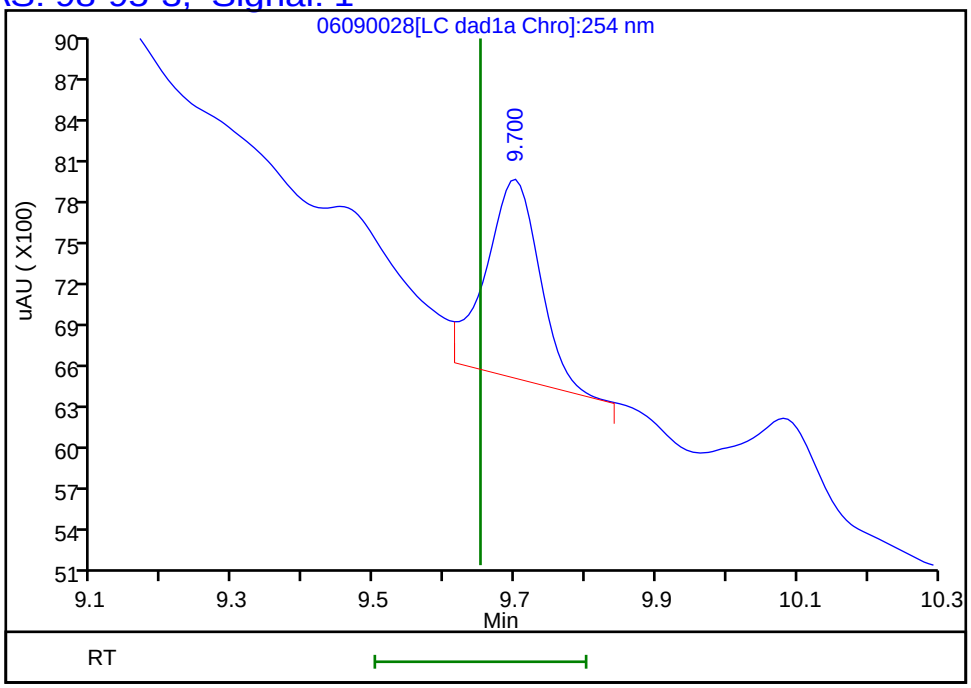
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090028.d				
Injection Date:	09-Jun-2021 22:55:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-9-A	Lab Sample ID:	280-149356-9		
Client ID:	NW050R-DP06-60				
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.70
Response: 7499
Amount: 0.038400



Reviewer: zhangji, 10-Jun-2021 12:56:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

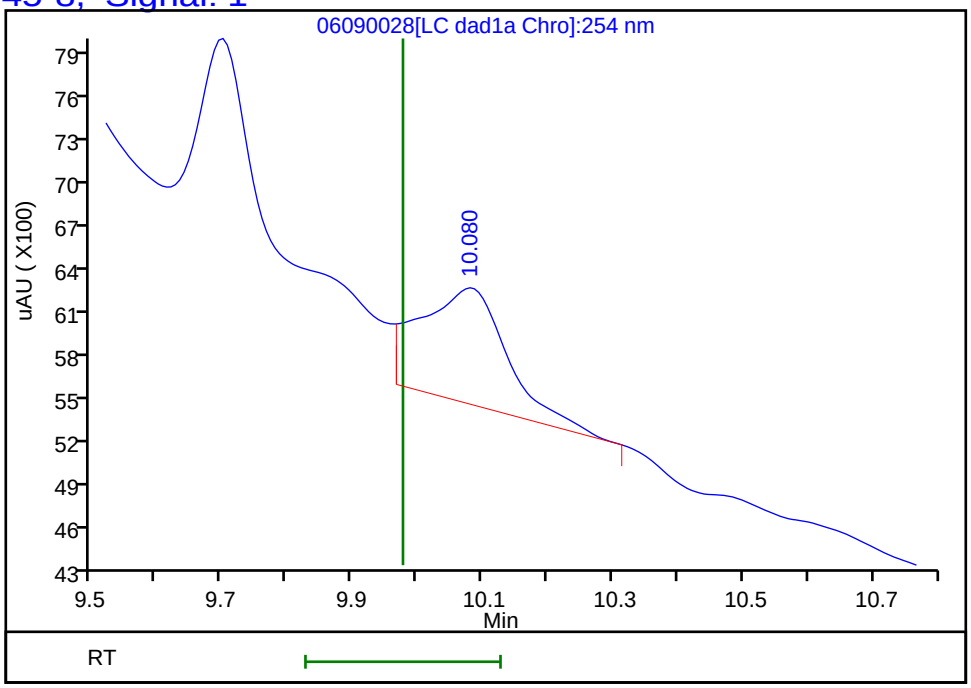
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090028.d				
Injection Date:	09-Jun-2021 22:55:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-9-A	Lab Sample ID:	280-149356-9		
Client ID:	NW050R-DP06-60				
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.08
Response: 7234
Amount: 0.041956



Reviewer: zhangji, 10-Jun-2021 12:56:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS501-DP06-25
Lab Sample ID: 280-149356-10
Matrix: Water
Lab File ID: 06090029.D
Analysis Method: 8330A
Date Collected: 06/02/2021 08:00
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 501.6(mL)
Date Analyzed: 06/09/2021 23:18
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.89	M	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U M	0.11	0.10	0.037
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	2.4		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.085
99-08-1	3-Nitrotoluene	0.40	U	0.40	0.40	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	1.8		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U M	0.41	0.40	0.10
5755-27-1	MNX	0.40	U M	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
121-82-4	RDX	0.39	M J1	0.21	0.20	0.051
479-45-8	Tetryl	0.10	U M	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	93	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090029.D				
Lims ID:	280-149356-A-10-A				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 23:18:23	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-10-				
Misc. Info.:	280-0102208-029				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	10-Jun-2021 13:01:00		

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1	6.603	6.611	-0.008	2504	0.0297	M
	6 MNX	1		7.214			ND	U
	7 RDX	1	7.570	7.584	-0.014	4209	0.0396	M
$	9 1,2-Dinitrobenzene	1	8.503	8.511	-0.008	23786	0.1855	M
	10 1,3,5-Trinitrobenzene	1	8.630	8.637	-0.007	19604	0.0890	M
	11 1,3-Dinitrobenzene	1		9.264			ND	U
	12 Nitrobenzene	1		9.651			ND	
	14 Tetryl	1		9.977			ND	U
	16 2,4,6-Trinitrotoluene	1	10.890	10.897	-0.007	551640	2.68	E
	17 4-Amino-2,6-dinitrotoluene	1	11.096	11.104	-0.008	27617	0.1808	
	18 2-Amino-4,6-dinitrotoluene	1	11.356	11.364	-0.008	49198	0.2378	
	19 2,6-Dinitrotoluene	1		11.531			ND	
	20 2,4-Dinitrotoluene	1	11.690	11.704	-0.014	2484	0.008655	
	21 o-Nitrotoluene	1		12.571			ND	
	22 p-Nitrotoluene	1		13.011			ND	U
	23 m-Nitrotoluene	1		13.597			ND	

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount

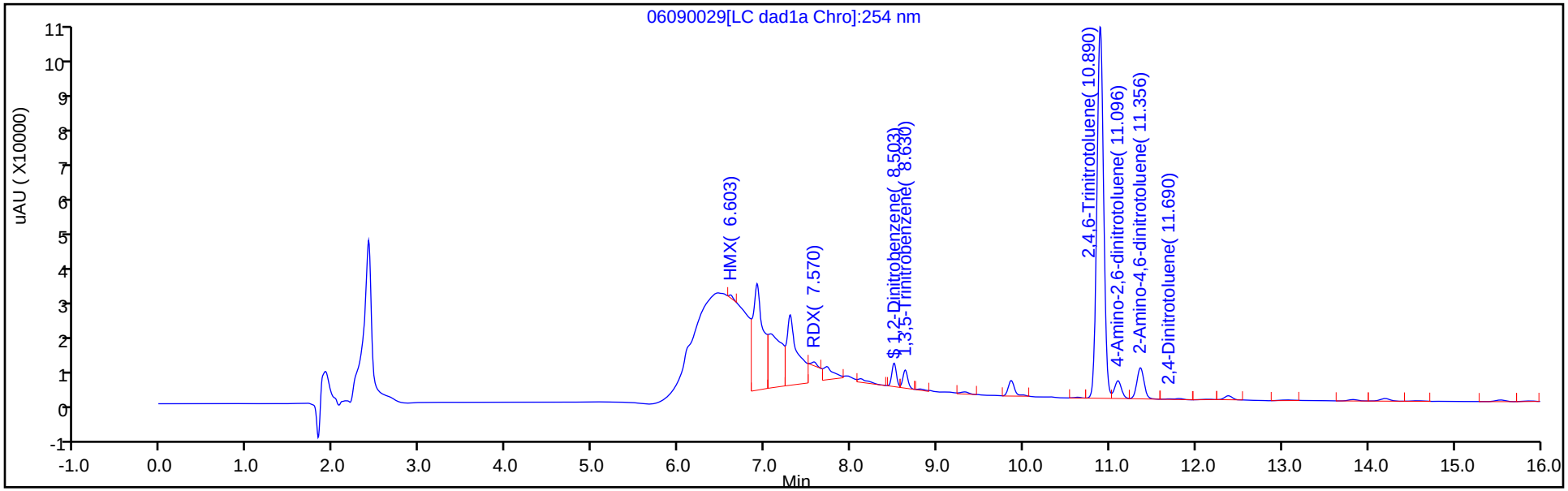
Review Flags
- M - Manually Integrated
- U - Marked Undetected

Report Date: 10-Jun-2021 13:30:11 Chrom Revision: 2.3 13-May-2021 07:57:40

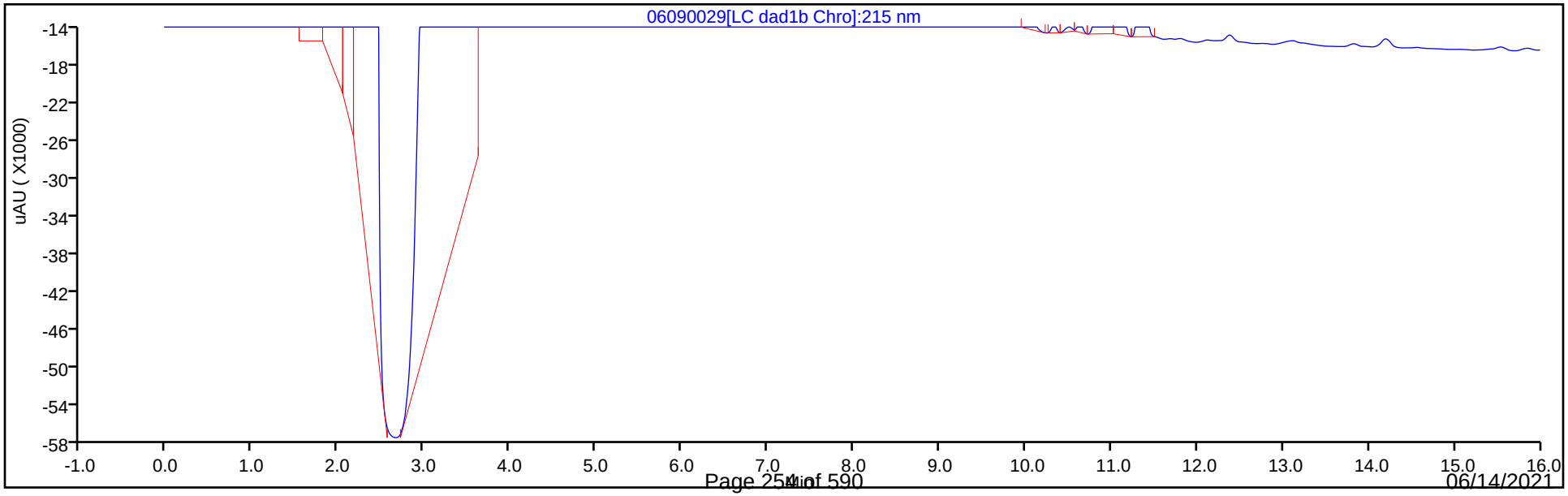
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10	Worklist Smp#:	29
Client ID:	OS501-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090029.D				
Lims ID:	280-149356-A-10-A				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 23:18:23	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-10-				
Misc. Info.:	280-0102208-029				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 10-Jun-2021 13:01:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1855	92.76

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

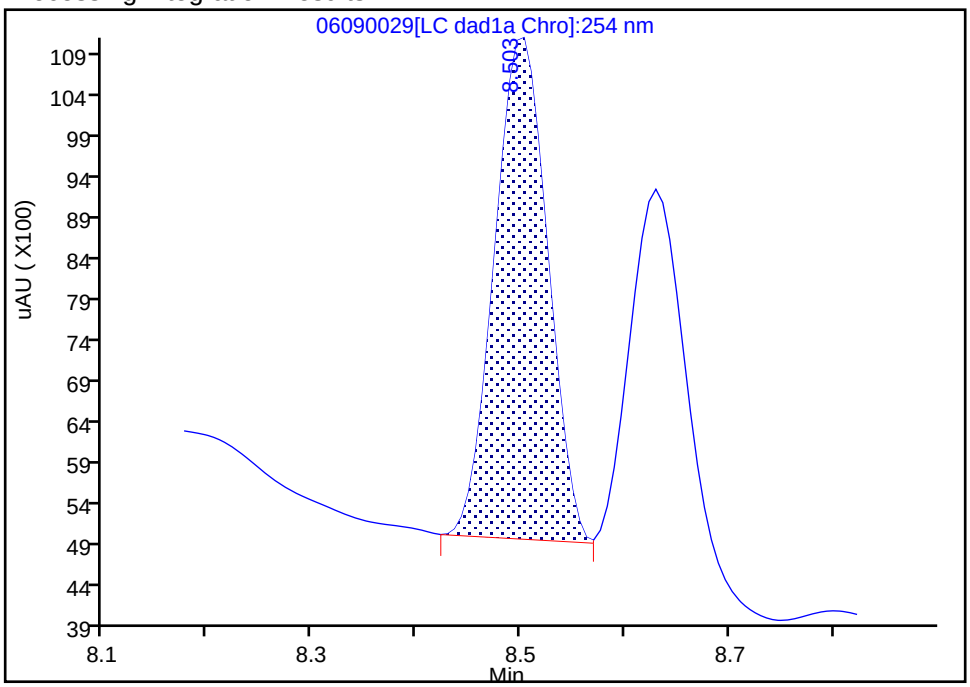
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

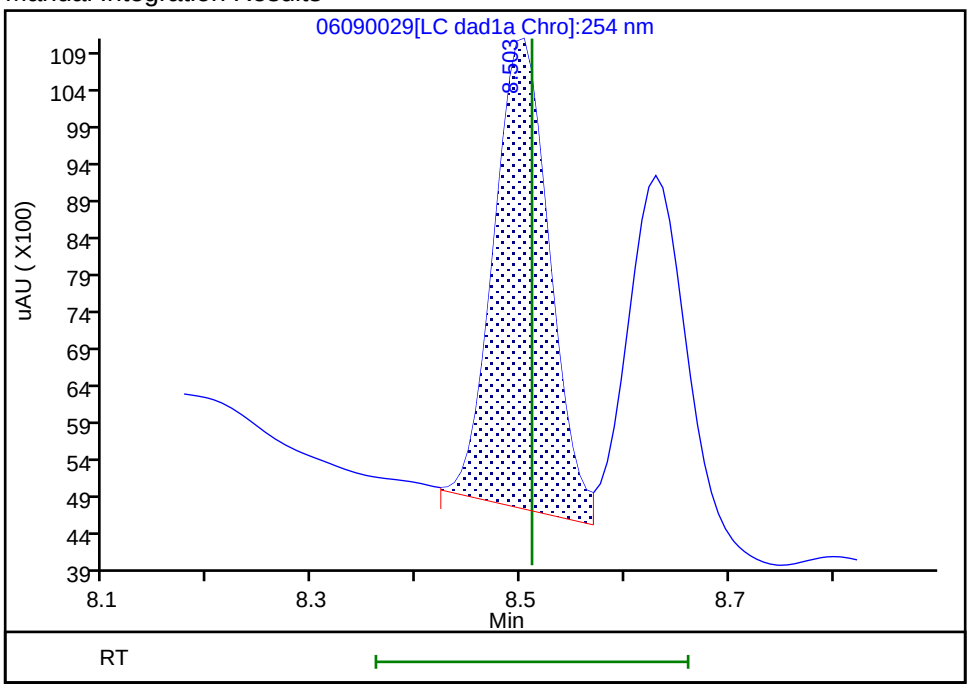
Processing Integration Results

RT: 8.50
Area: 21889
Amount: 0.170718
Amount Units: ug/mL



Manual Integration Results

RT: 8.50
Area: 23786
Amount: 0.185513
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 13:00:23
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

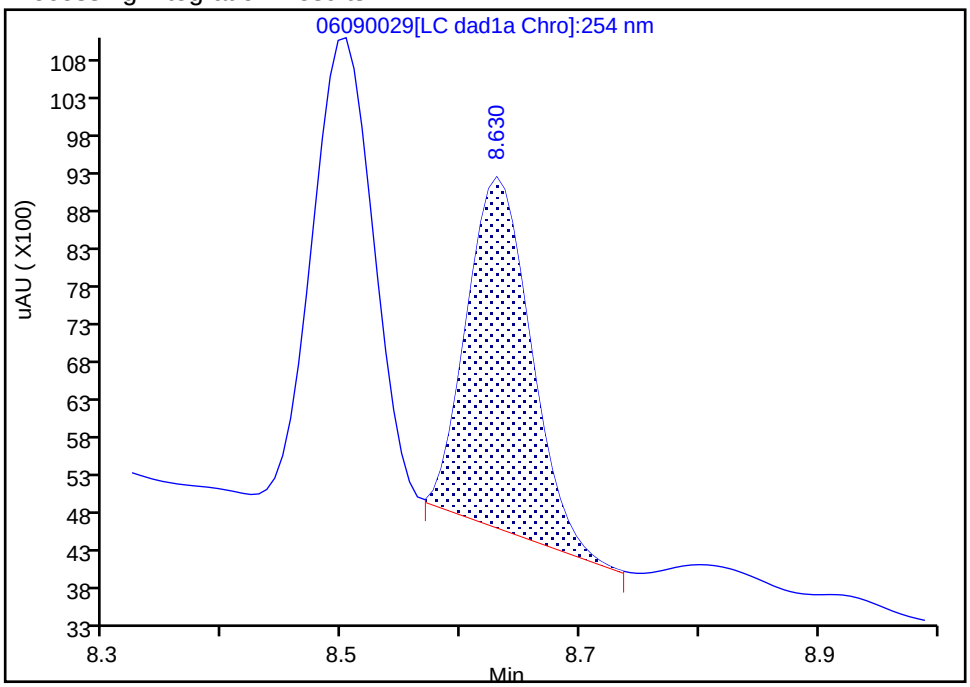
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

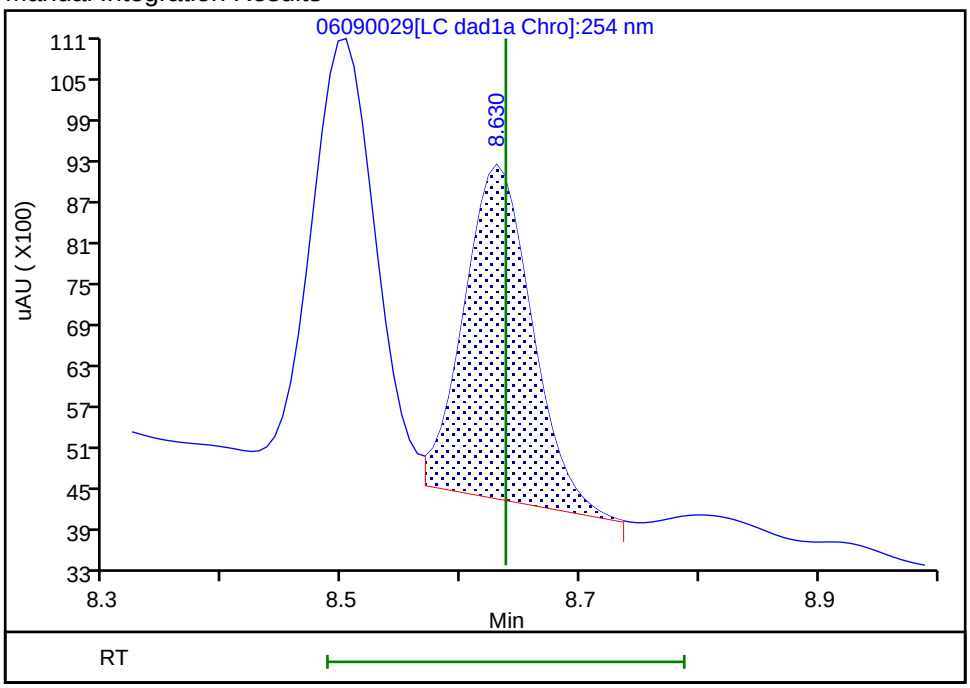
Processing Integration Results

RT: 8.63
Area: 17644
Amount: 0.080084
Amount Units: ug/mL



Manual Integration Results

RT: 8.63
Area: 19604
Amount: 0.088981
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 13:00:23
Audit Action: Assigned New Baseline Audit Reason: Baseline

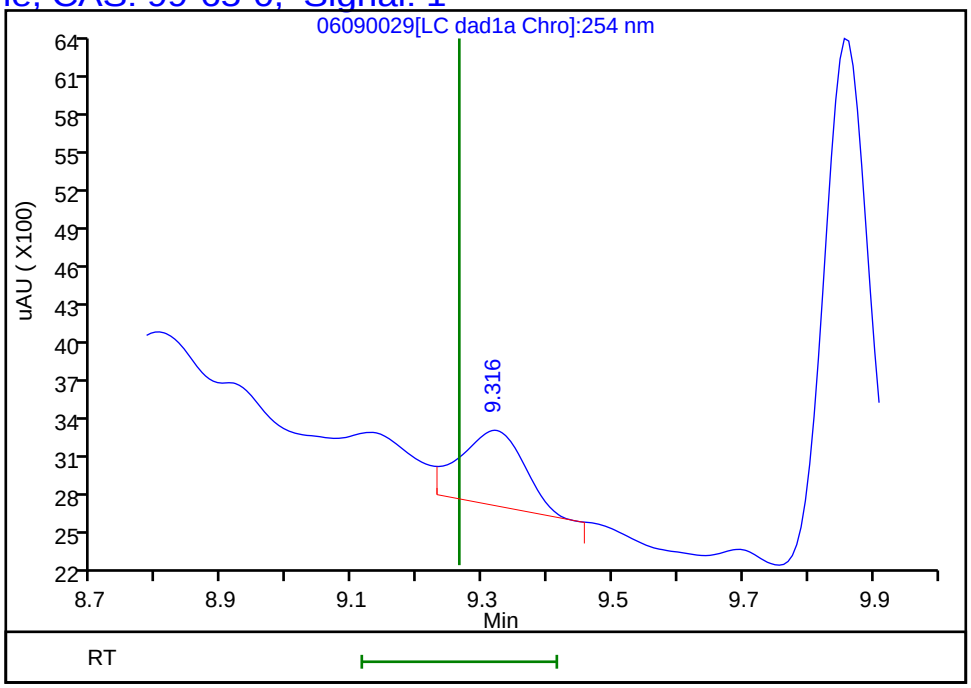
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.32
Response: 4011
Amount: 0.013536



Reviewer: zhangji, 10-Jun-2021 13:01:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

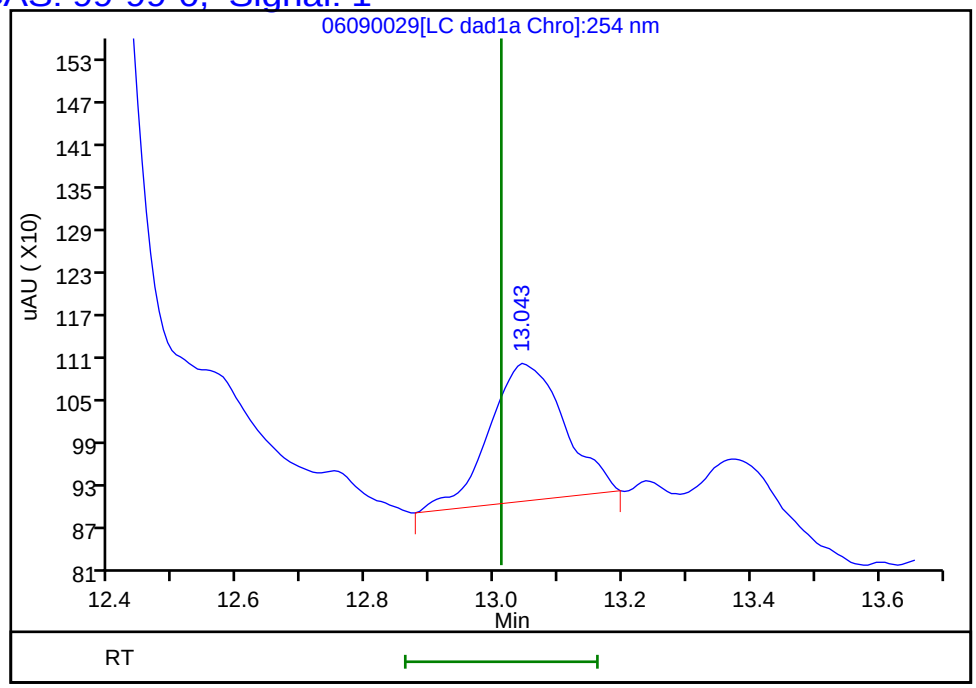
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.04
Response: 1571
Amount: 0.014038



Reviewer: zhangji, 10-Jun-2021 13:01:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

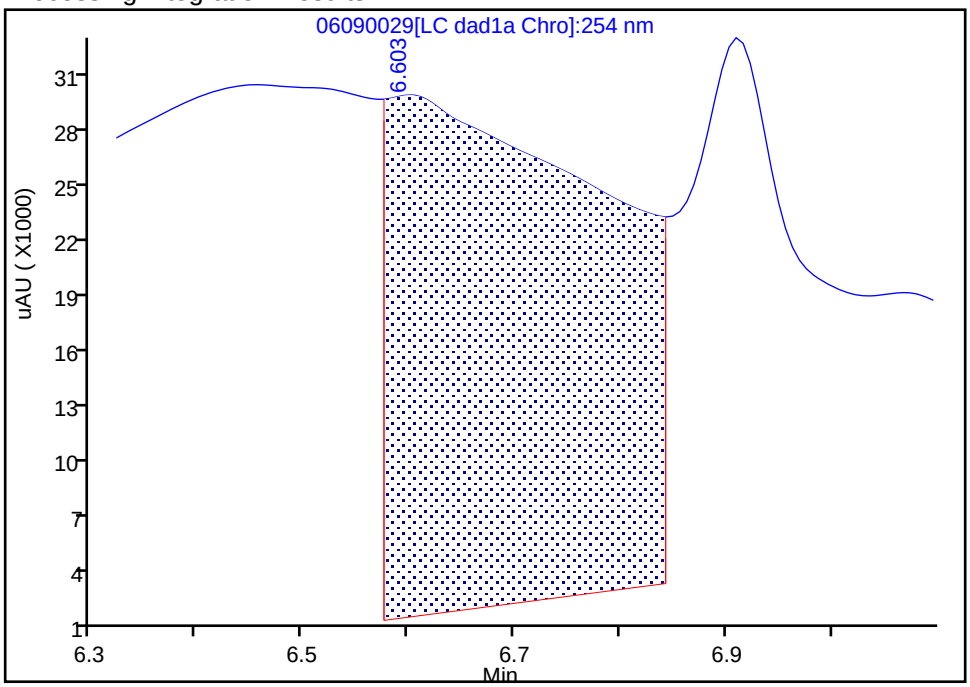
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

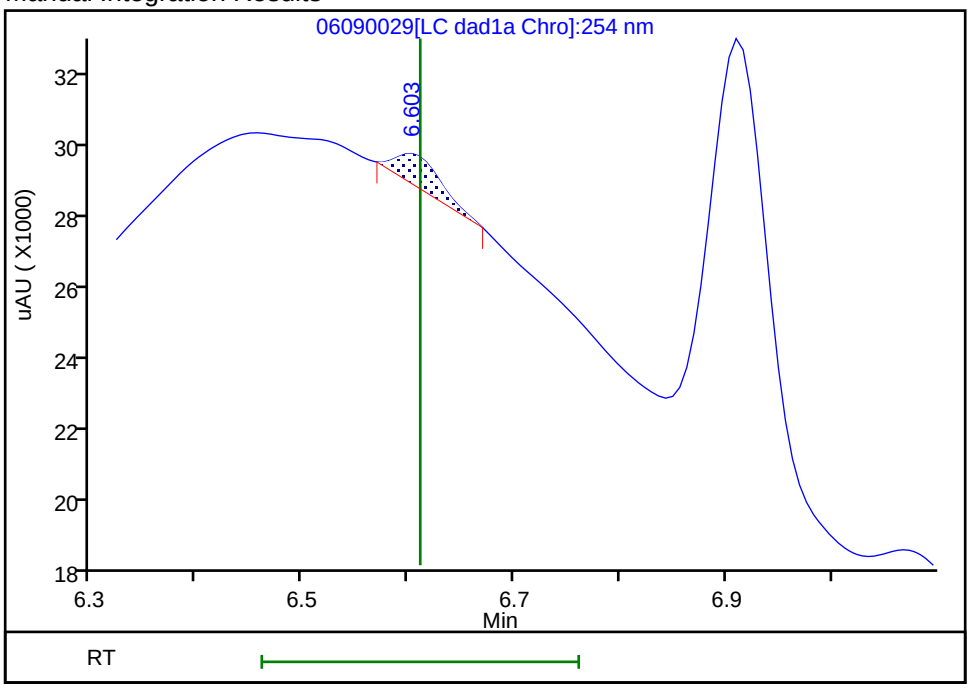
Processing Integration Results

RT: 6.60
Area: 385370
Amount: 4.564836
Amount Units: ug/mL



Manual Integration Results

RT: 6.60
Area: 2504
Amount: 0.029661
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 13:00:34

Audit Action: Manually Integrated Audit Reason: Baseline

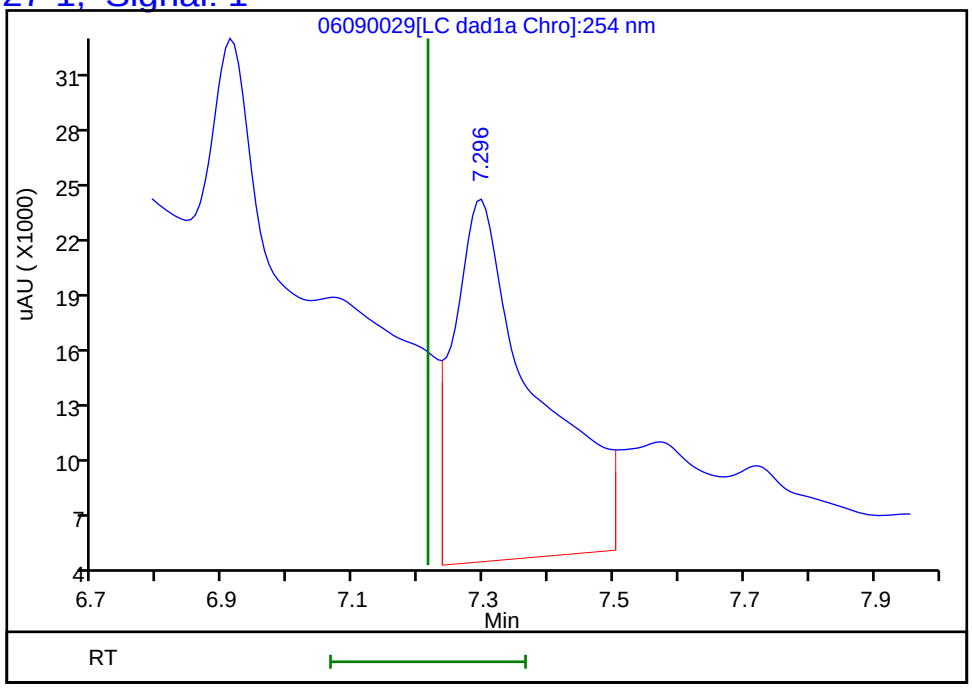
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.30
Response: 166980
Amount: 1.281108



Reviewer: zhangji, 10-Jun-2021 13:01:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

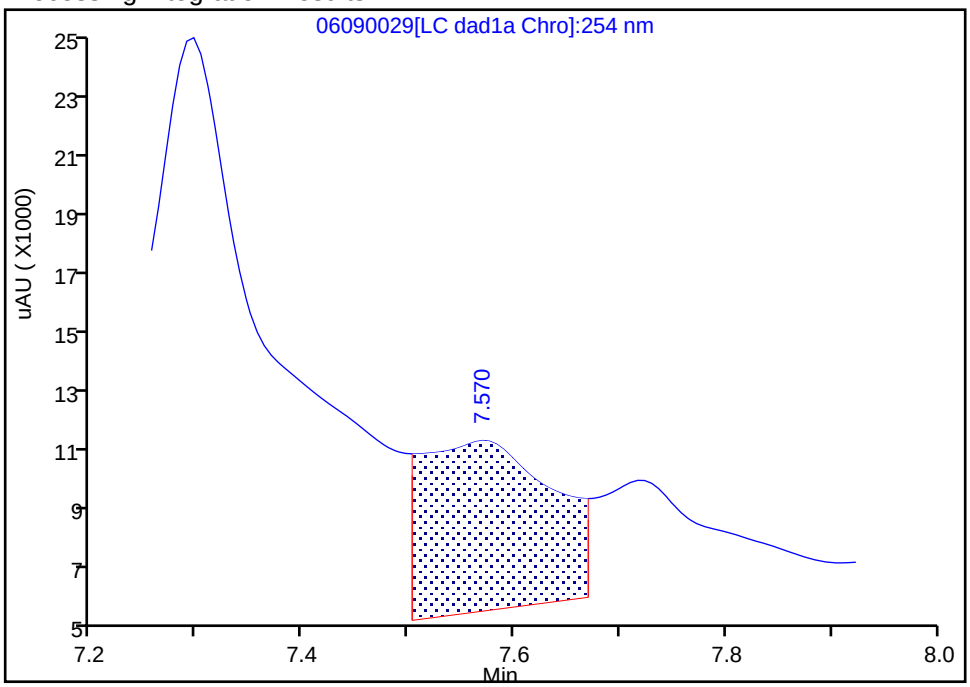
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

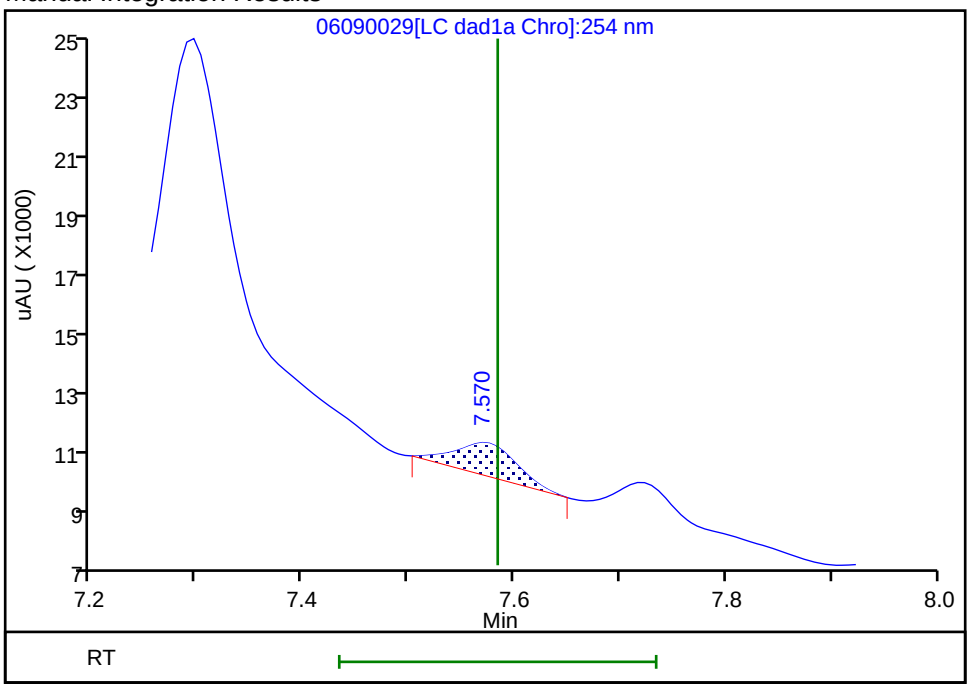
Processing Integration Results

RT: 7.57
Area: 46041
Amount: 0.433280
Amount Units: ug/mL



Manual Integration Results

RT: 7.57
Area: 4209
Amount: 0.039610
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 13:00:39
Audit Action: Manually Integrated Audit Reason: Baseline

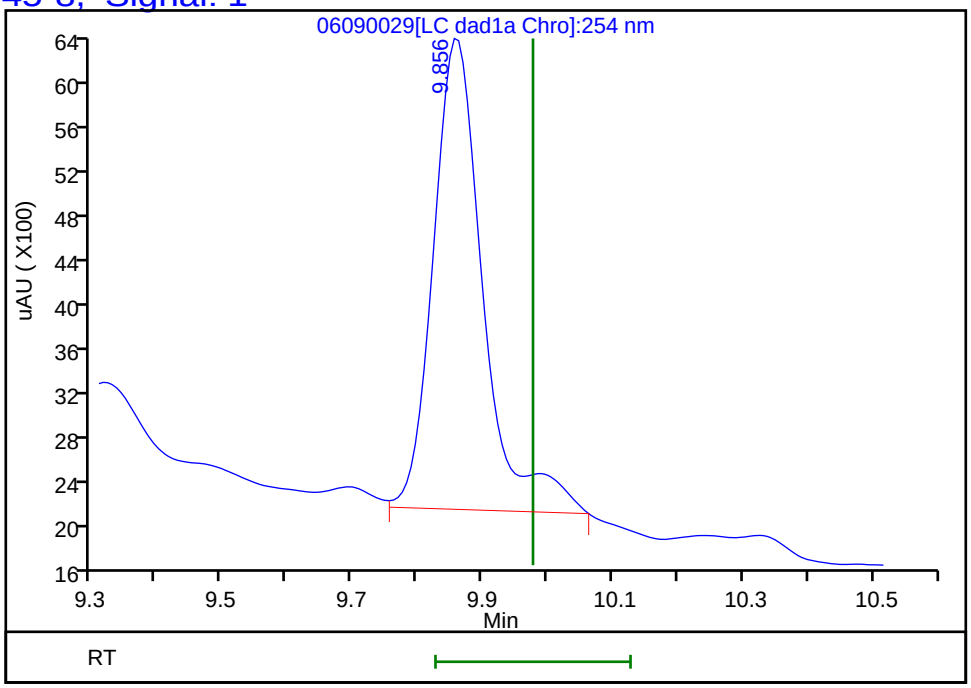
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090029.d				
Injection Date:	09-Jun-2021 23:18:23	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.86
Response: 22481
Amount: 0.130385



Reviewer: zhangji, 10-Jun-2021 13:01:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS501-DP06-25
Lab Sample ID: 280-149356-10
Matrix: Water
Lab File ID: 06100019.D
Analysis Method: 8330A
Date Collected: 06/02/2021 08:00
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 501.6(mL)
Date Analyzed: 06/10/2021 23:42
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539386
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
2691-41-0	HMX	0.20	U	0.21	0.20	0.087
121-82-4	*RDX*	*0.17*	*J M J1*	*0.21*	0.20	*0.051*

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100019.D				
Lims ID:	280-149356-A-10-A				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 23:42:28	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-10-A				
Misc. Info.:	280-0102249-019				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC mwd1A, 254 nm
Process Host:	CTX1619	

First Level Reviewer: zhangji Date: 11-Jun-2021 12:37:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		6.646			ND	
7 MNX	1	7.377	7.429	-0.052	5470	0.0207	M
8 RDX	1	8.764	8.813	-0.049	3568	0.0175	M
9 Nitrobenzene	1		11.859			ND	
$ 10 1,2-Dinitrobenzene	1	12.917	12.952	-0.035	55637	0.2094	
12 1,3-Dinitrobenzene	1		15.372			ND	7
14 o-Nitrotoluene	1		16.599			ND	U
15 p-Nitrotoluene	1		16.886			ND	U
16 4-Amino-2,6-dinitrotoluene	1	17.297	17.346	-0.049	67245	0.2266	
17 m-Nitrotoluene	1		17.859			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.204	18.246	-0.042	107922	0.2736	
19 1,3,5-Trinitrobenzene	1	18.751	18.772	-0.021	46036	0.1054	
20 2,6-Dinitrotoluene	1		20.012			ND	
21 2,4-Dinitrotoluene	1		20.486			ND	
22 Tetryl	1		24.113			ND	
23 2,4,6-Trinitrotoluene	1	25.017	25.093	-0.076	1040251	2.79	E

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount
- 7 - Failed Limit of Detection

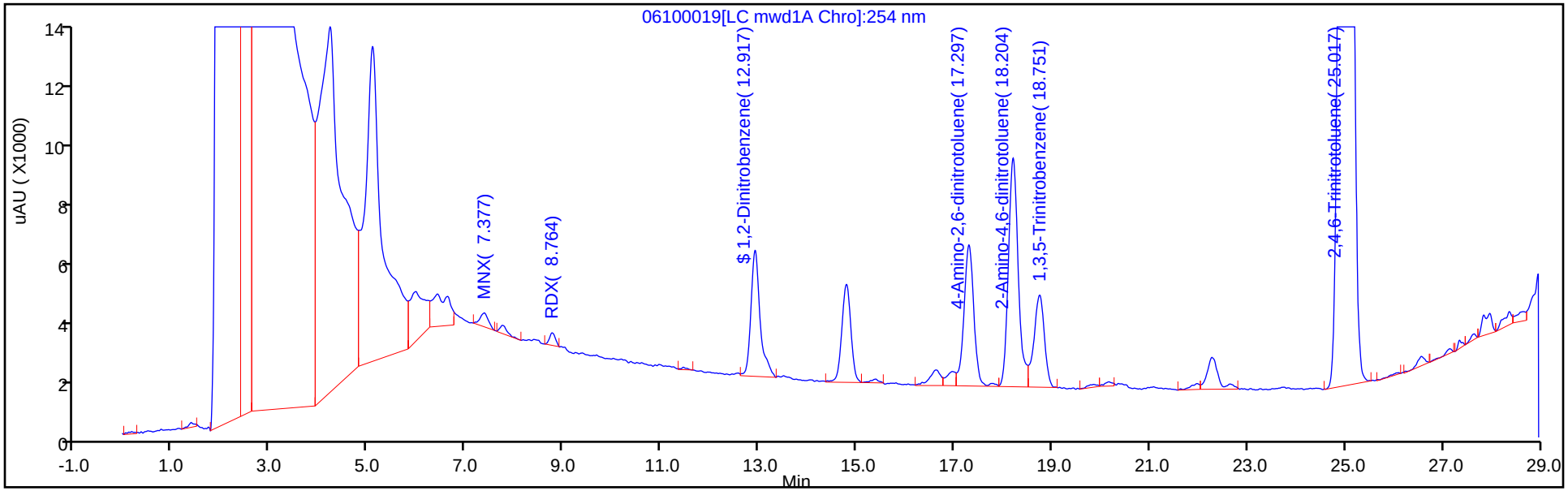
Review Flags
- M - Manually Integrated
- U - Marked Undetected

Report Date: 11-Jun-2021 12:42:17 Chrom Revision: 2.3 13-May-2021 07:57:40

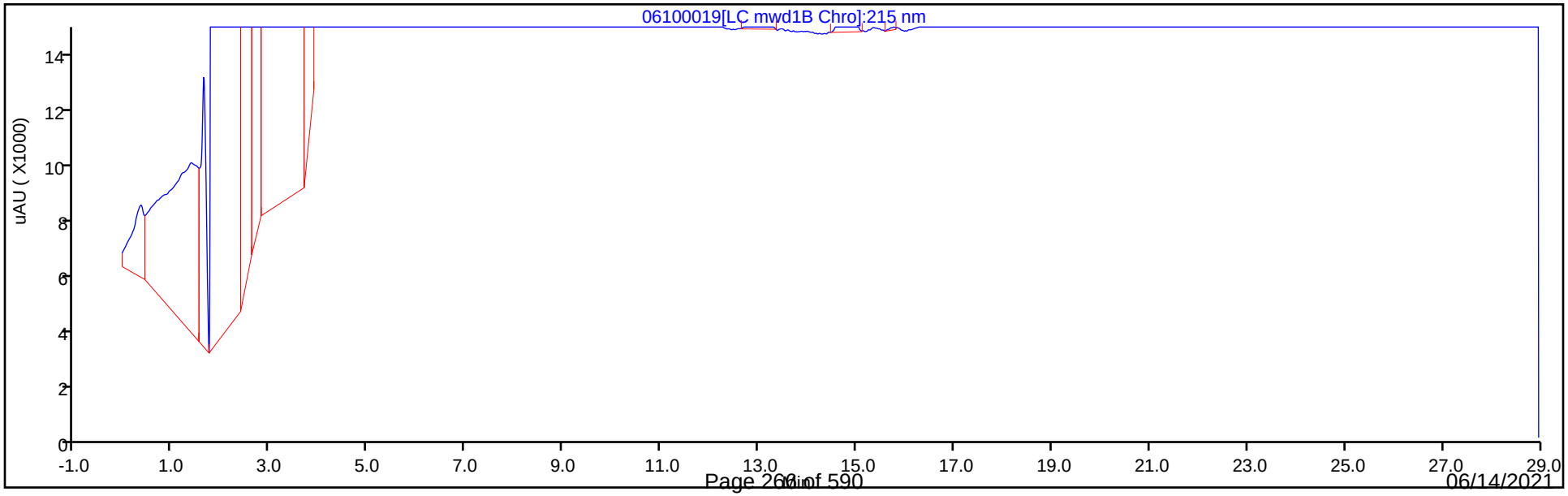
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100019.D				
Injection Date:	10-Jun-2021 23:42:28	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10	Worklist Smp#:	19
Client ID:	OS501-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100019.D				
Lims ID:	280-149356-A-10-A				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 23:42:28	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-10-A				
Misc. Info.:	280-0102249-019				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1619				

First Level Reviewer: zhangji Date: 11-Jun-2021 12:37:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2094	104.72

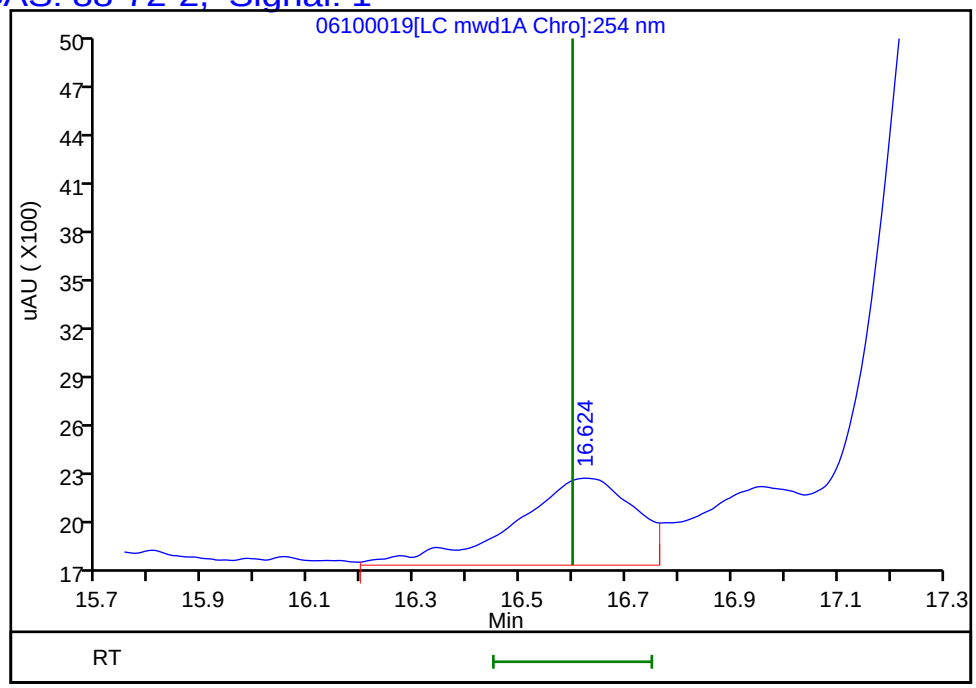
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100019.D				
Injection Date:	10-Jun-2021 23:42:28	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.62
Response: 8290
Amount: 0.033298



Reviewer: zhangji, 11-Jun-2021 12:37:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

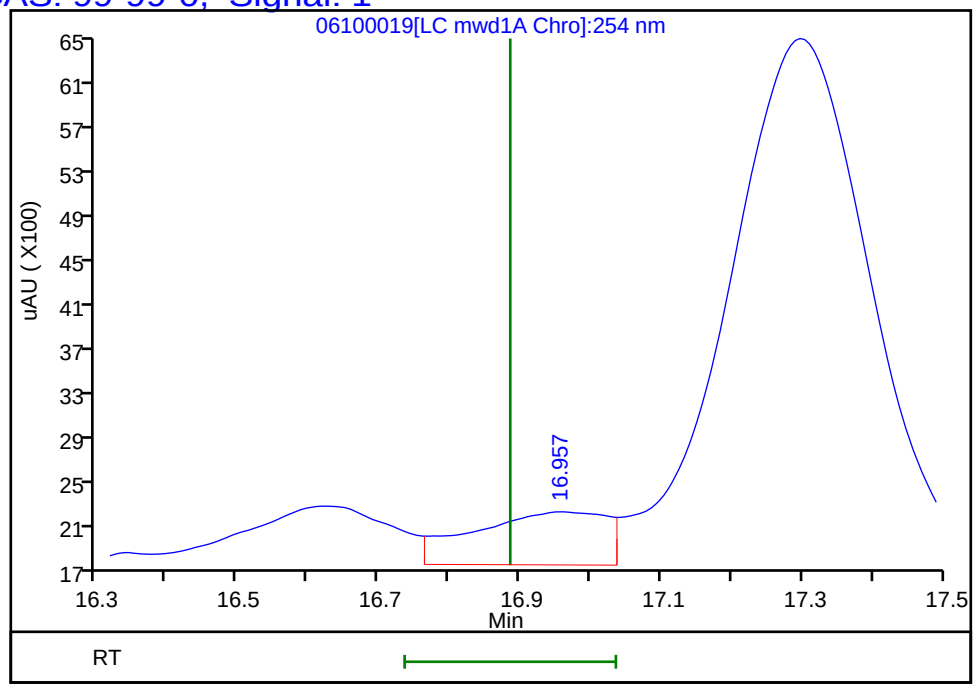
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100019.D				
Injection Date:	10-Jun-2021 23:42:28	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 16.96
Response: 6246
Amount: 0.028759



Reviewer: zhangji, 11-Jun-2021 12:37:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

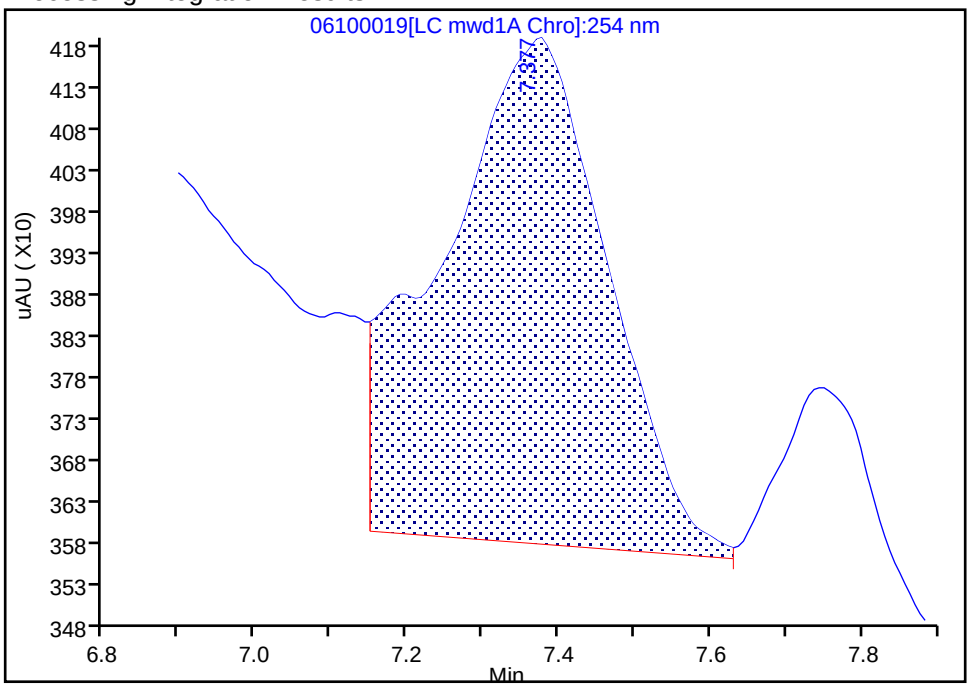
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100019.D				
Injection Date:	10-Jun-2021 23:42:28	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

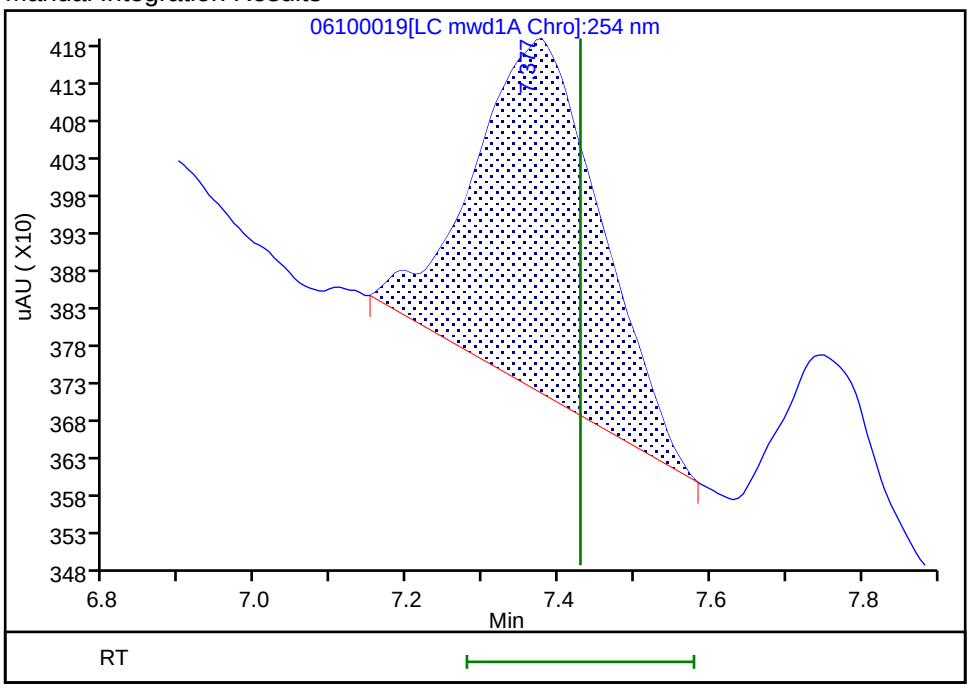
Processing Integration Results

RT: 7.38
Area: 9221
Amount: 0.034817
Amount Units: ug/ml



Manual Integration Results

RT: 7.38
Area: 5470
Amount: 0.020654
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:37:34

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

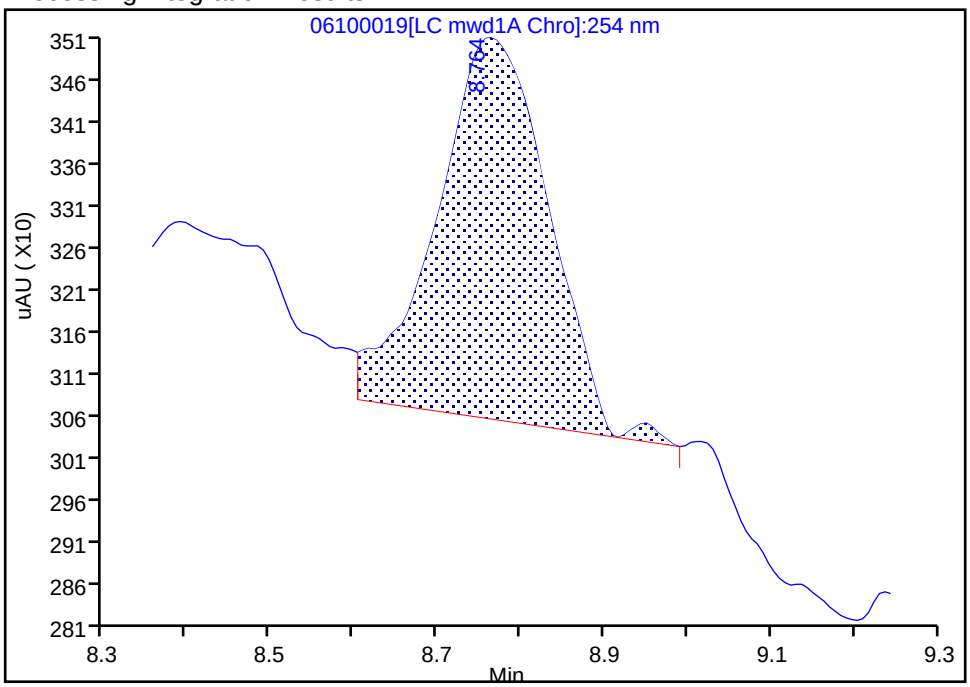
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100019.D				
Injection Date:	10-Jun-2021 23:42:28	Instrument ID:	CHHPLC_X5		
Lims ID:	280-149356-A-10-A	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

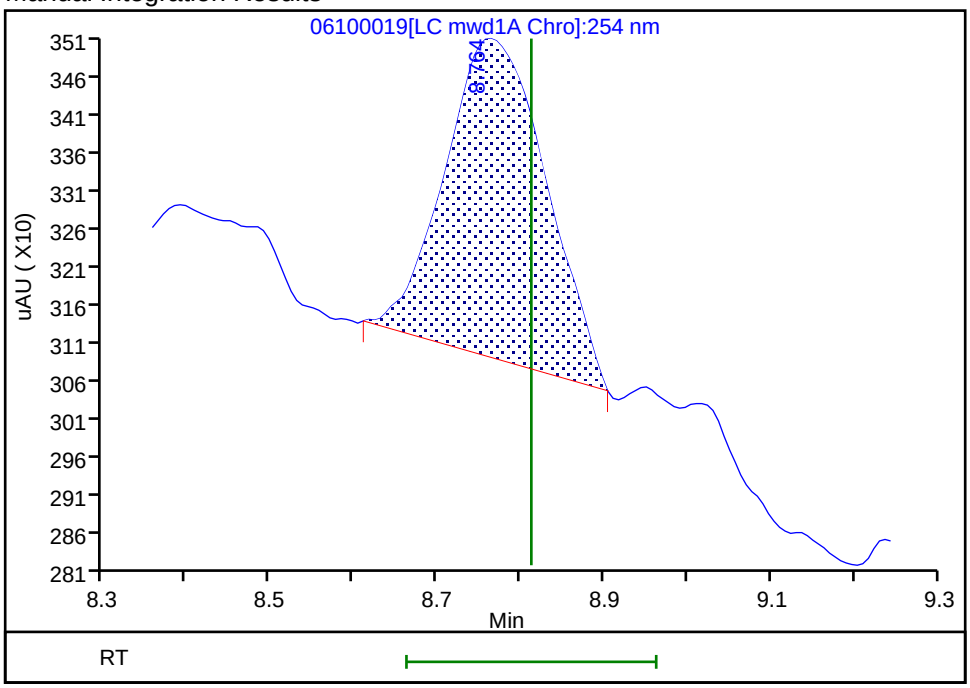
Processing Integration Results

RT: 8.76
Area: 4262
Amount: 0.020865
Amount Units: ug/ml



Manual Integration Results

RT: 8.76
Area: 3568
Amount: 0.017467
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:37:39

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS501-DP06-25 DL
Lab Sample ID: 280-149356-10 DL
Matrix: Water
Lab File ID: 06100012.D
Analysis Method: 8330A
Date Collected: 06/02/2021 08:00
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 501.6(mL)
Date Analyzed: 06/10/2021 16:47
Con. Extract Vol.: 5(mL)
Dilution Factor: 5
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539383
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
118-96-7	2,4,6-Trinitrotoluene	27	D	0.55	0.50	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	94	D	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\06100012.D				
Lims ID:	280-149356-A-10-A DL				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 16:47:13	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-10-				
Misc. Info.:	280-0102248-012				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	11-Jun-2021 12:34:15	Calib Date:	01-May-2021 21:04:39
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1619	

First Level Reviewer: zhangji Date: 10-Jun-2021 17:20:28

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.612			ND	U
6 MNX	1		7.216			ND	U
7 RDX	1		7.585			ND	U
$ 9 1,2-Dinitrobenzene	1	8.513	8.519	-0.006	4836	0.0377	
10 1,3,5-Trinitrobenzene	1	8.639	8.645	-0.006	3758	0.0171	
11 1,3-Dinitrobenzene	1		9.272			ND	
12 Nitrobenzene	1		9.659			ND	
14 Tetryl	1		9.985			ND	U
16 2,4,6-Trinitrotoluene	1	10.912	10.912	0.000	110552	0.5366	
17 4-Amino-2,6-dinitrotoluene	1	11.112	11.119	-0.007	5417	0.0355	
18 2-Amino-4,6-dinitrotoluene	1	11.379	11.379	0.000	9640	0.0466	
19 2,6-Dinitrotoluene	1		11.545			ND	
20 2,4-Dinitrotoluene	1		11.719			ND	
21 o-Nitrotoluene	1		12.599			ND	
22 p-Nitrotoluene	1		13.039			ND	7
23 m-Nitrotoluene	1		13.625			ND	

QC Flag Legend

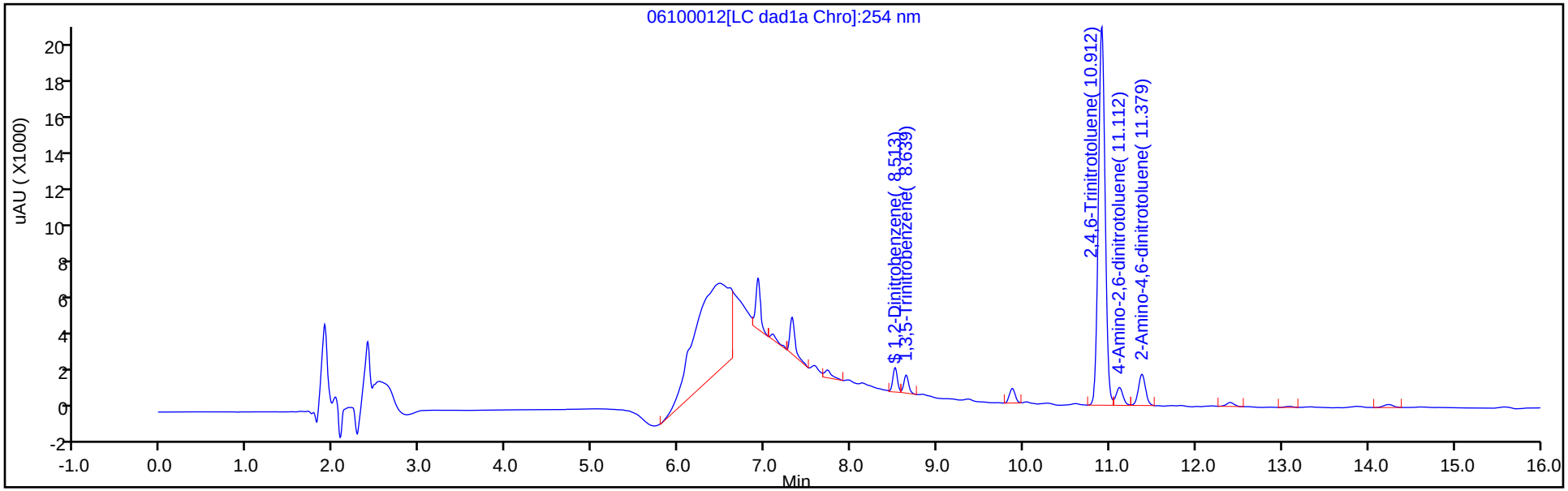
Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Report Date: 11-Jun-2021 12:34:17 Chrom Revision: 2.3 13-May-2021 07:57:40

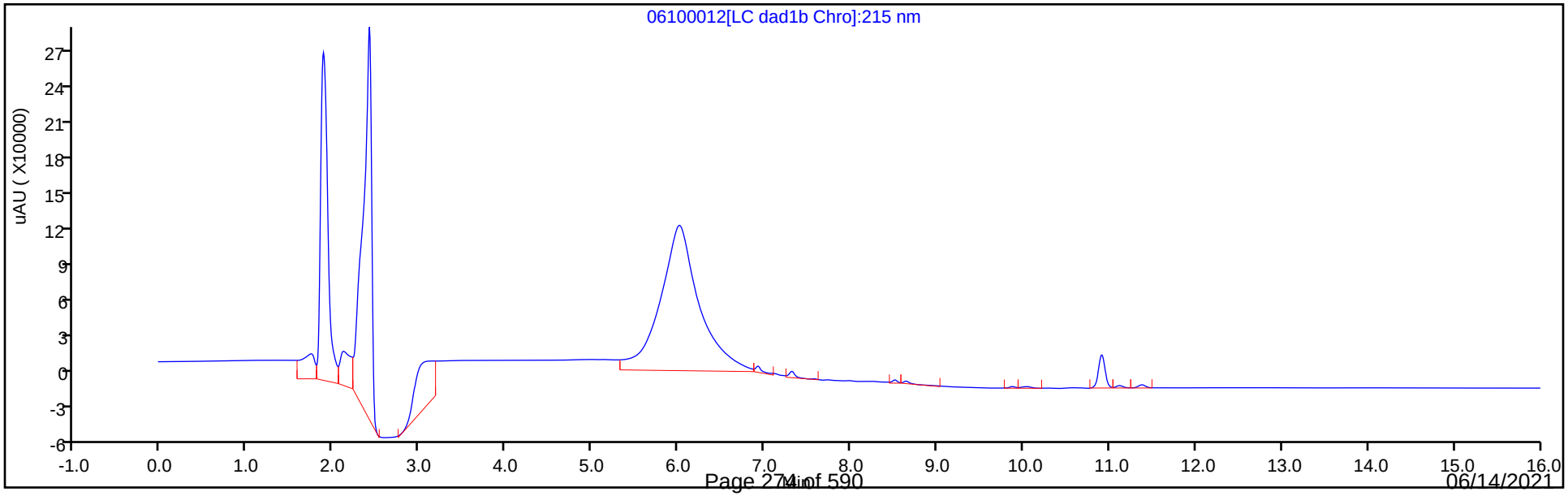
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100012.d				
Injection Date:	10-Jun-2021 16:47:13	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-10-A DL	Lab Sample ID:	280-149356-10	Worklist Smp#:	12
Client ID:	OS501-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	12
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\06100012.D				
Lims ID:	280-149356-A-10-A DL				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	10-Jun-2021 16:47:13	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-10-				
Misc. Info.:	280-0102248-012				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	11-Jun-2021 12:34:15	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1619				

First Level Reviewer: zhangji Date: 10-Jun-2021 17:20:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0377	18.86

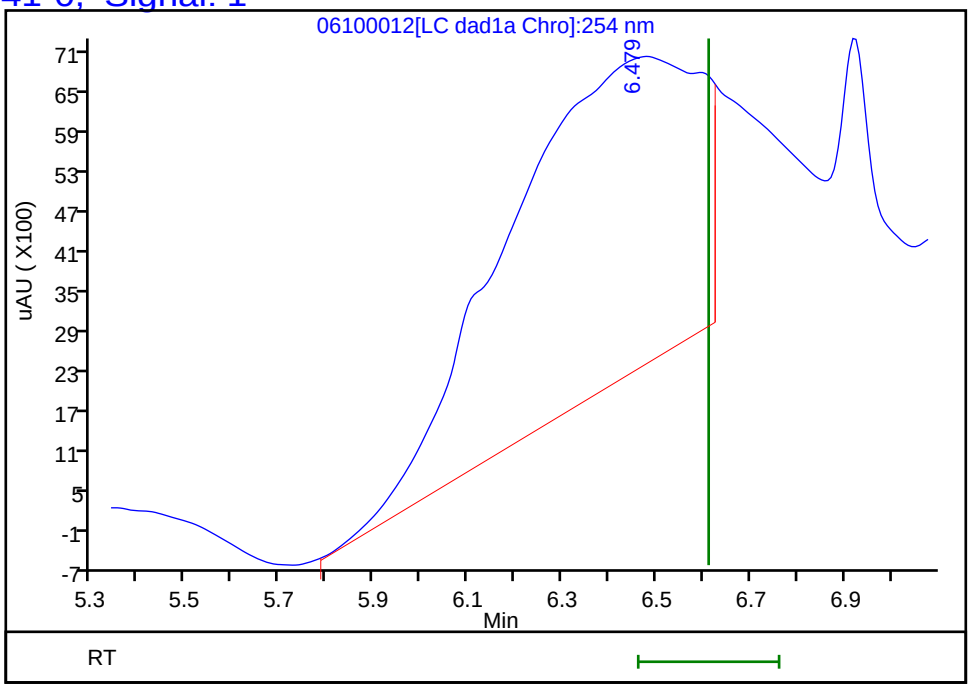
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100012.d				
Injection Date:	10-Jun-2021 16:47:13	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A DL	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.48
Response: 138865
Amount: 1.644902



Reviewer: zhangji, 10-Jun-2021 17:20:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

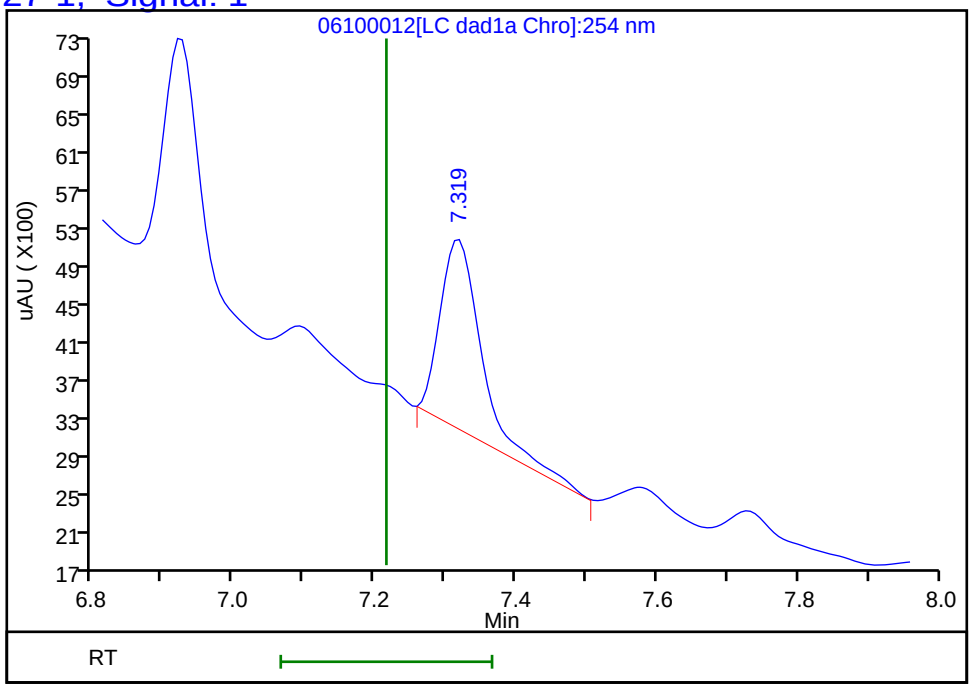
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100012.d				
Injection Date:	10-Jun-2021 16:47:13	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A DL	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.32
Response: 8076
Amount: 0.061961



Reviewer: zhangji, 10-Jun-2021 17:20:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

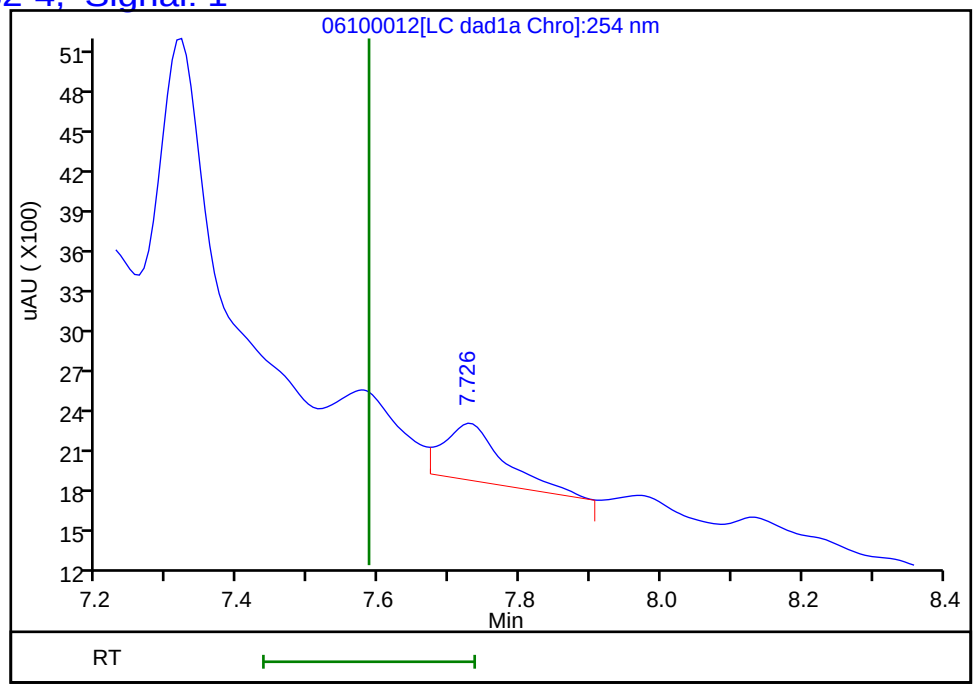
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100012.d				
Injection Date:	10-Jun-2021 16:47:13	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A DL	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4, Signal: 1

RT: 7.73
Response: 2482
Amount: 0.023357



Reviewer: zhangji, 10-Jun-2021 17:20:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

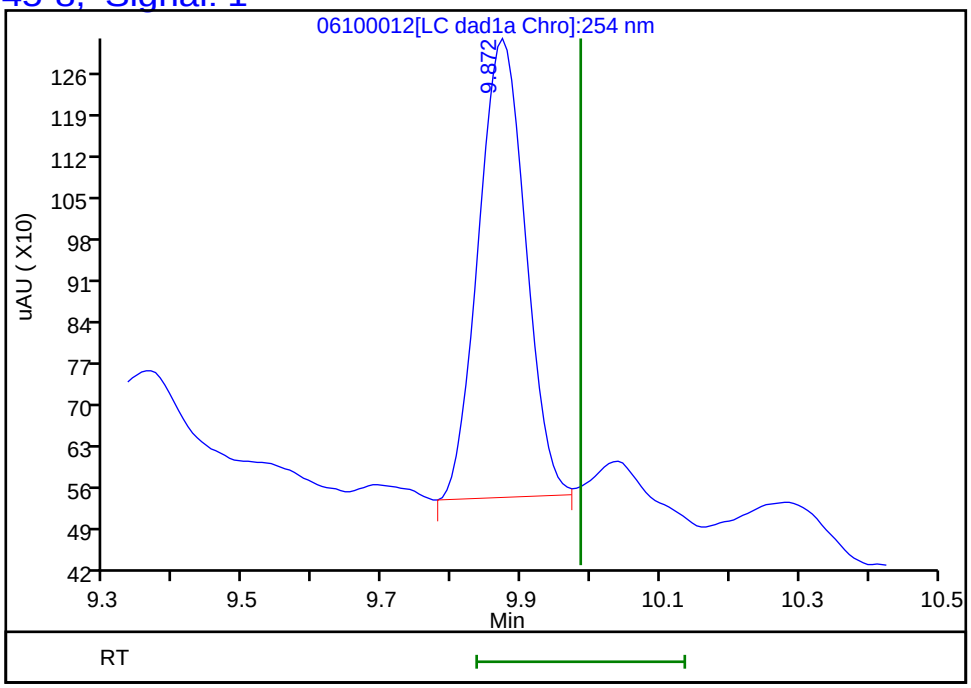
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100012.d				
Injection Date:	10-Jun-2021 16:47:13	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-10-A DL	Lab Sample ID:	280-149356-10		
Client ID:	OS501-DP06-25				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 9.87
Response: 3678
Amount: 0.021332



Reviewer: zhangji, 10-Jun-2021 17:20:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS501-DP06-25 DL
Lab Sample ID: 280-149356-10 DL
Matrix: Water
Lab File ID: 06100020.D
Analysis Method: 8330A
Date Collected: 06/02/2021 08:00
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 501.6(mL)
Date Analyzed: 06/11/2021 00:17
Con. Extract Vol.: 5(mL)
Dilution Factor: 5
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539386
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	107	*D*	83-119

FORM I 8330A

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100020.D				
Lims ID:	280-149356-A-10-A DL				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	11-Jun-2021 00:17:28	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-10-A				
Misc. Info.:	280-0102249-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC mwd1A, 254 nm
Process Host:	CTX1619	

First Level Reviewer: zhangji Date: 11-Jun-2021 12:38:08

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		6.646			ND	
7 MNX	1	7.378	7.429	-0.051	1768	0.006676	
8 RDX	1	8.798	8.813	-0.015	1198	0.005865	
9 Nitrobenzene	1		11.859			ND	
$ 10 1,2-Dinitrobenzene	1	12.937	12.952	-0.015	11406	0.0429	
12 1,3-Dinitrobenzene	1		15.372			ND	
14 o-Nitrotoluene	1		16.599			ND	7
15 p-Nitrotoluene	1		16.886			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.324	17.346	-0.022	12732	0.0429	
17 m-Nitrotoluene	1		17.859			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.224	18.246	-0.022	21983	0.0532	
19 1,3,5-Trinitrobenzene	1	18.771	18.772	-0.001	12657	0.0239	
20 2,6-Dinitrotoluene	1		20.012			ND	
21 2,4-Dinitrotoluene	1		20.486			ND	
22 Tetryl	1		24.113			ND	
23 2,4,6-Trinitrotoluene	1	25.031	25.093	-0.062	207611	0.5544	

QC Flag Legend

Processing Flags

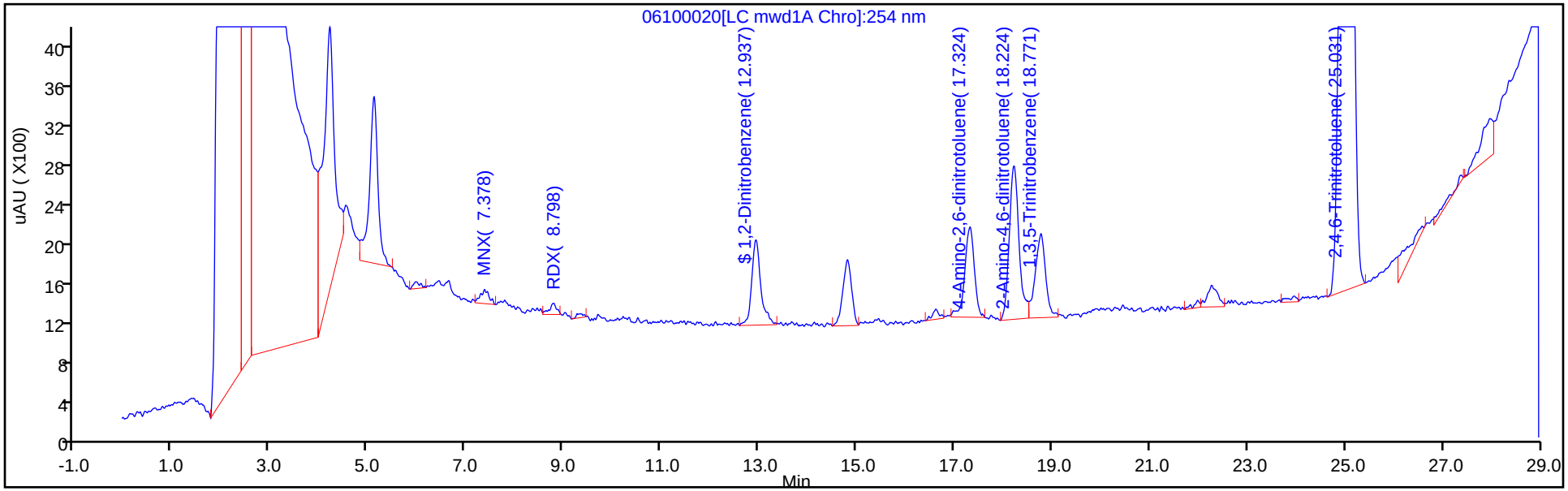
7 - Failed Limit of Detection

Report Date: 11-Jun-2021 12:42:16 Chrom Revision: 2.3 13-May-2021 07:57:40

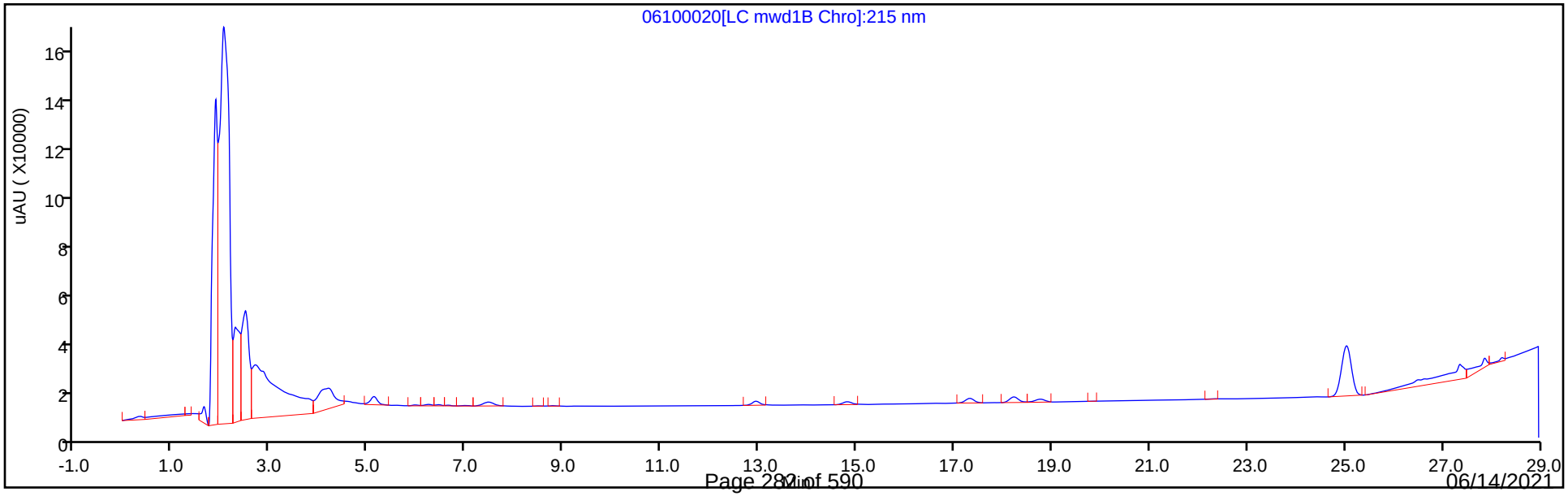
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100020.D				
Injection Date:	11-Jun-2021 00:17:28	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-149356-A-10-A DL	Lab Sample ID:	280-149356-10	Worklist Smp#:	20
Client ID:	OS501-DP06-25				
Injection Vol:	100.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	20
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100020.D				
Lims ID:	280-149356-A-10-A DL				
Client ID:	OS501-DP06-25				
Sample Type:	Client				
Inject. Date:	11-Jun-2021 00:17:28	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-149356-A-10-A				
Misc. Info.:	280-0102249-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	11-Jun-2021 12:42:16	Calib Date:	02-May-2021 04:51:05
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC mwd1A, 254 nm
Process Host:	CTX1619	

First Level Reviewer: zhangji Date: 11-Jun-2021 12:38:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0429	21.47

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 527768

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/02/2021 23:49 Calibration End Date: 03/03/2021 02:30 Calibration ID: 51473

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-527768/36	03020036.D
Level 2	IC 280-527768/35	03020035.D
Level 3	IC 280-527768/34	03020034.D
Level 4	IC 280-527768/33	03020033.D
Level 5	IC 280-527768/32	03020032.D
Level 6	IC 280-527768/31	03020031.D
Level 7	IC 280-527768/30	03020030.D
Level 8	IC 280-527768/29	03020029.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	6.521	6.522	6.522	6.518	6.521	6.519	6.523	6.520			6.418 - 6.618	6.521
DNX	6.827	6.829	6.828	6.832	6.828	6.833	6.836	6.833			6.732 - 6.932	6.831
MNX	7.234	7.235	7.235	7.232	7.234	7.239	7.236	7.240			7.082 - 7.382	7.236

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 527768

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/02/2021 23:49 Calibration End Date: 03/03/2021 02:30 Calibration ID: 51473

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-527768/36	03020036.D
Level 2	IC 280-527768/35	03020035.D
Level 3	IC 280-527768/34	03020034.D
Level 4	IC 280-527768/33	03020033.D
Level 5	IC 280-527768/32	03020032.D
Level 6	IC 280-527768/31	03020031.D
Level 7	IC 280-527768/30	03020030.D
Level 8	IC 280-527768/29	03020029.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
TNX	183017 187800	186374 188250	185594 187339	176735 191339	Ave		185806.003				2.3		20.0			
DNX	149051 143511	142278 143240	139351 141711	133874 143939	Ave		142119.338				3.0		20.0			
MNX	132048 132243	129991 131443	130891 130291	124682 131132	Ave		130340.337				1.9		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 527768

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/02/2021 23:49 Calibration End Date: 03/03/2021 02:30 Calibration ID: 51473

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-527768/36	03020036.D
Level 2	IC 280-527768/35	03020035.D
Level 3	IC 280-527768/34	03020034.D
Level 4	IC 280-527768/33	03020033.D
Level 5	IC 280-527768/32	03020032.D
Level 6	IC 280-527768/31	03020031.D
Level 7	IC 280-527768/30	03020030.D
Level 8	IC 280-527768/29	03020029.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
TNX	Ave	3664 131907	9328 187526	18578 478826	44228	75195	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	2984 100368	7121 141853	13949 360207	33502	57462	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Ave	3082 107376	7585 152050	15275 382579	36376	61731	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend
Ave = Average

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020029.D				
Lims ID:	IC DMT 8				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	02-Mar-2021 23:49:27	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 8				
Misc. Info.:	280-0099486-029				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:24	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:18:59

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.520	6.518	0.002	478826	2.50	2.58	M
5 DNX	1	6.833	6.832	0.001	360207	2.50	2.53	M
6 MNX	1	7.240	7.232	0.008	382579	2.92	2.94	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

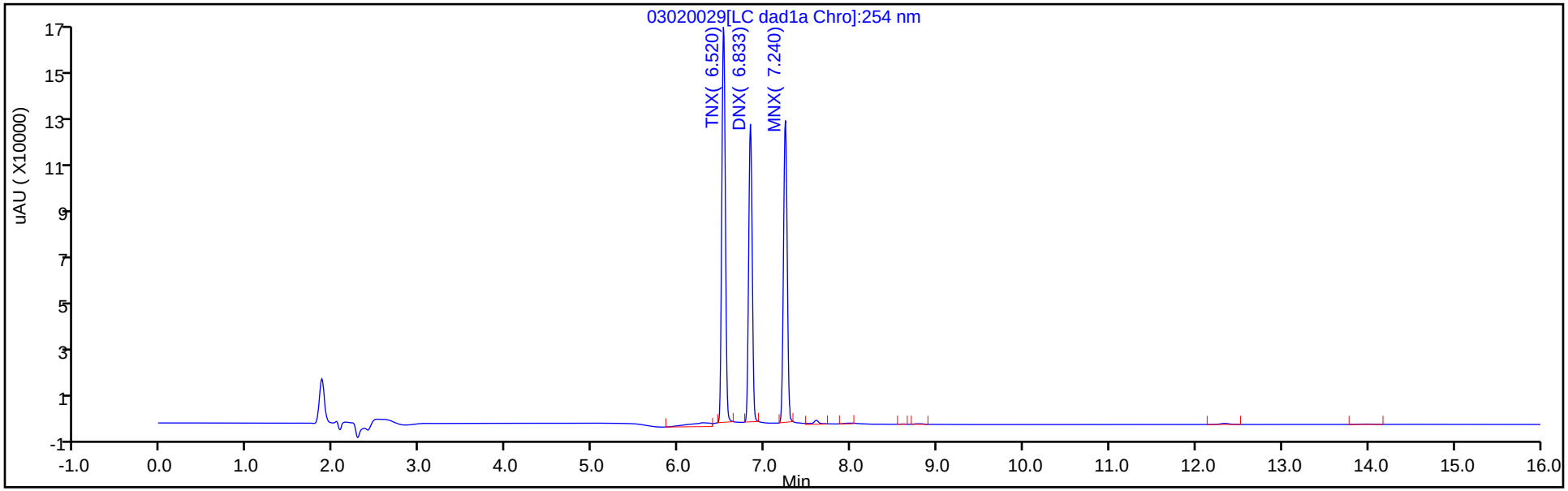
8330 DMT_00008 Amount Added: 125.00 Units: uL

Report Date: 03-Mar-2021 13:32:24 Chrom Revision: 2.3 05-Feb-2021 00:13:28

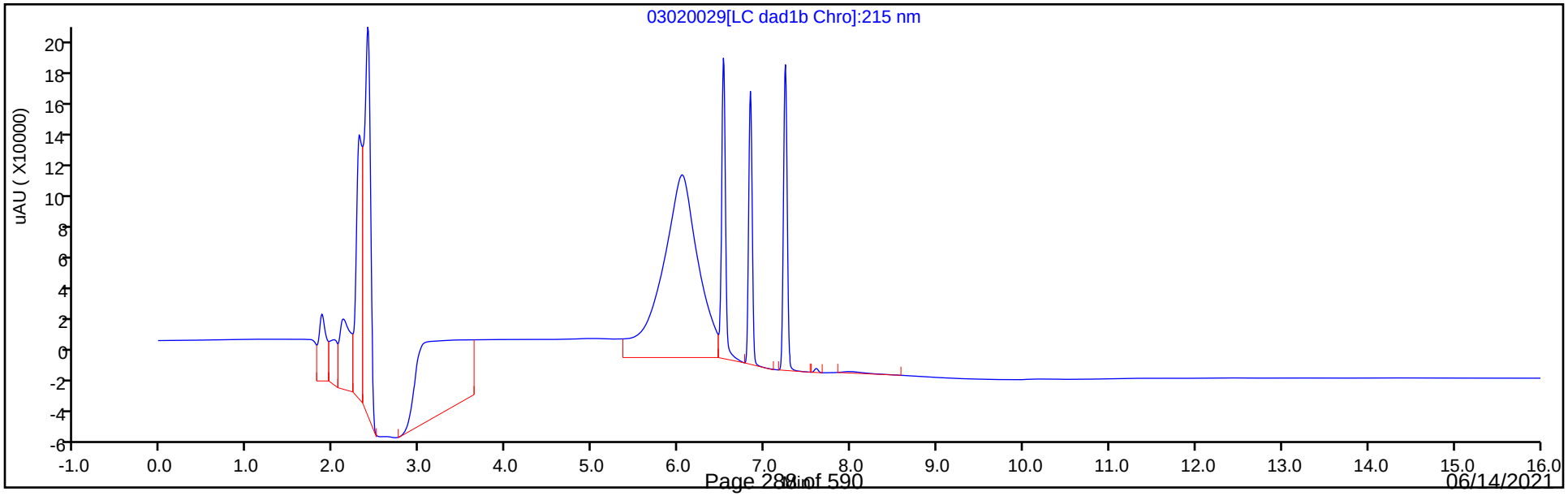
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020029.d				
Injection Date:	02-Mar-2021 23:49:27	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 8			Worklist Smp#:	29
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

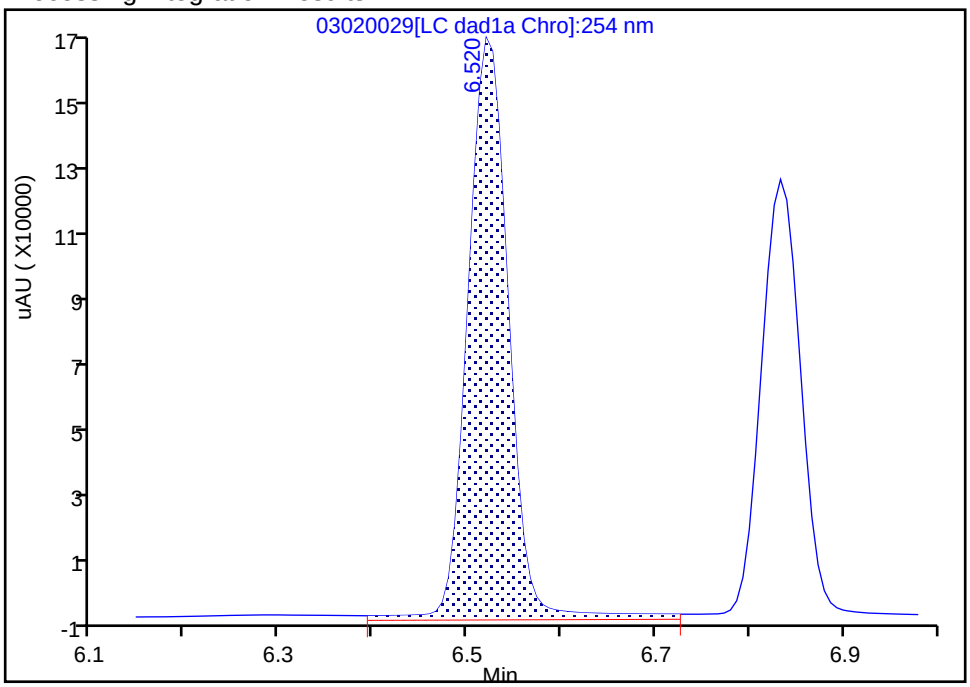
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020029.d				
Injection Date:	02-Mar-2021 23:49:27	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 8				
Client ID:					
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

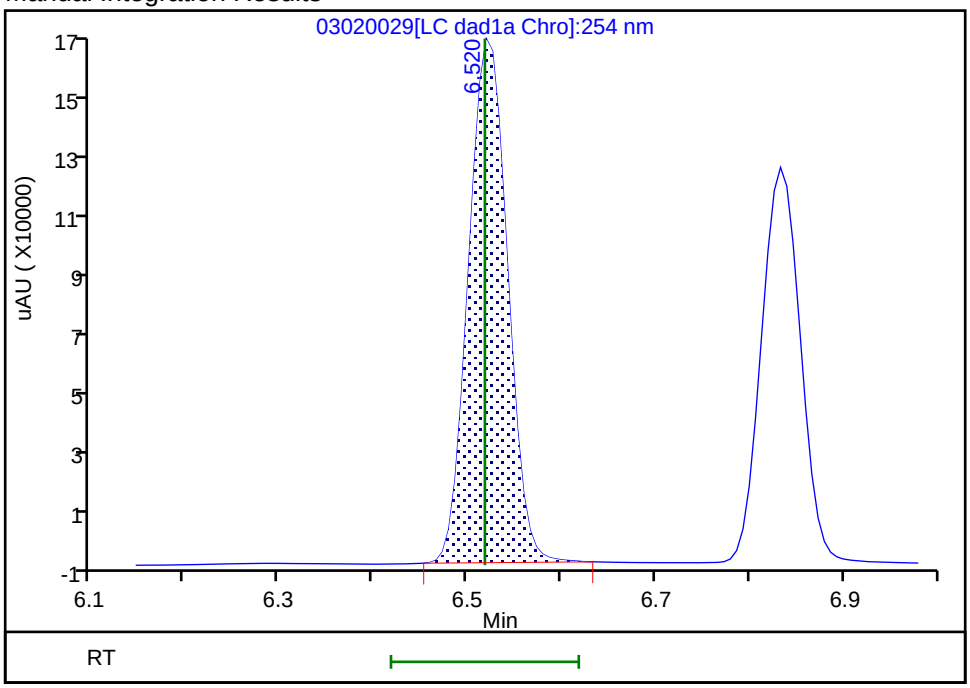
Processing Integration Results

RT: 6.52
Area: 511017
Amount: 2.370738
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 478826
Amount: 2.577021
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:18:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

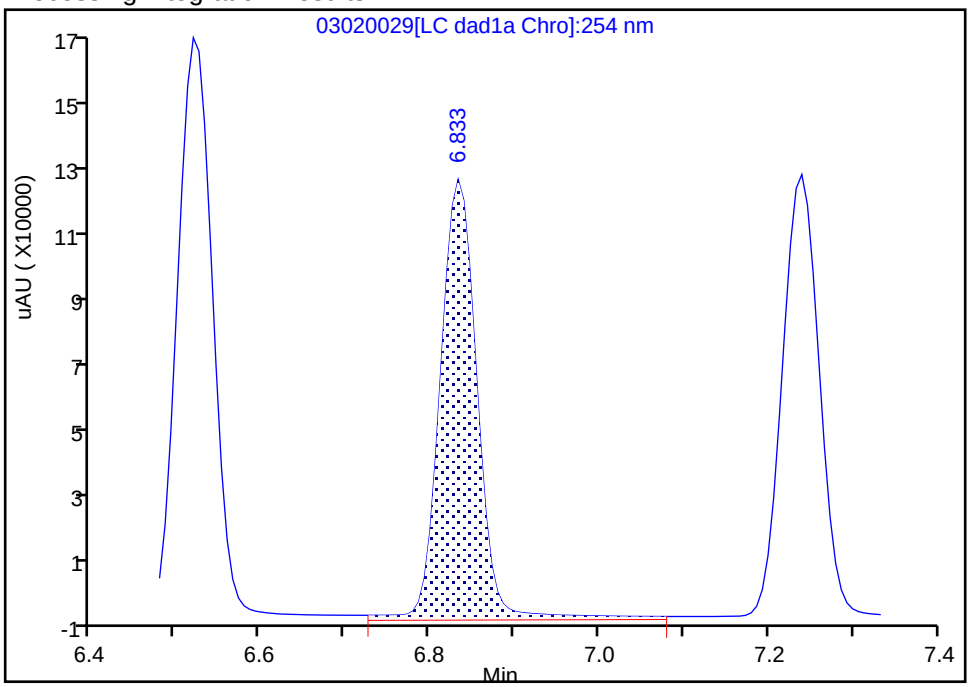
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020029.d				
Injection Date:	02-Mar-2021 23:49:27	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 8				
Client ID:					
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

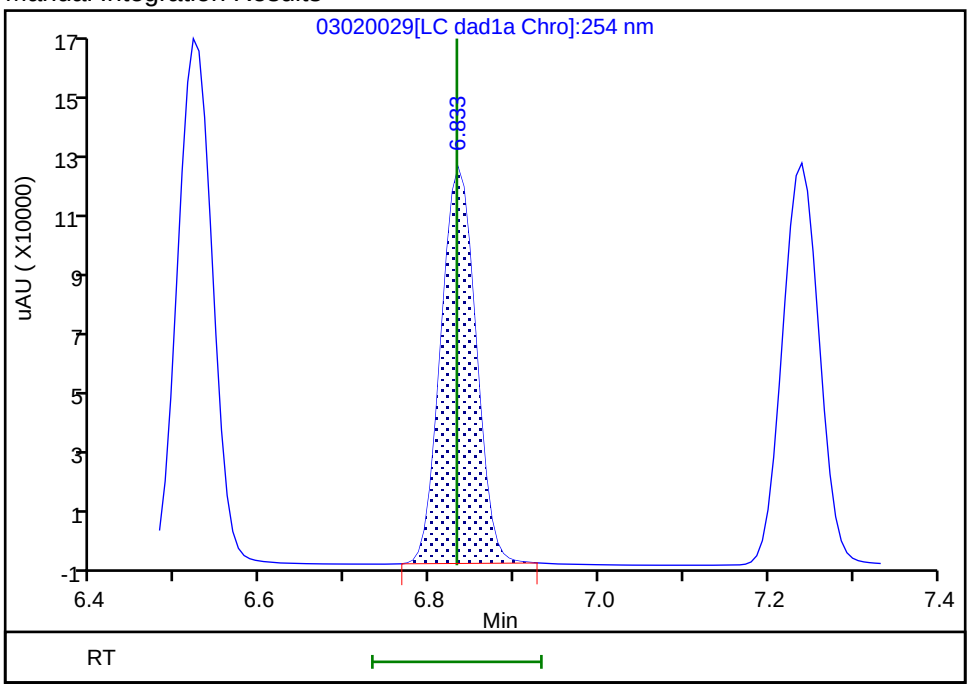
Processing Integration Results

RT: 6.83
Area: 389383
Amount: 2.402937
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 360207
Amount: 2.534539
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:18:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

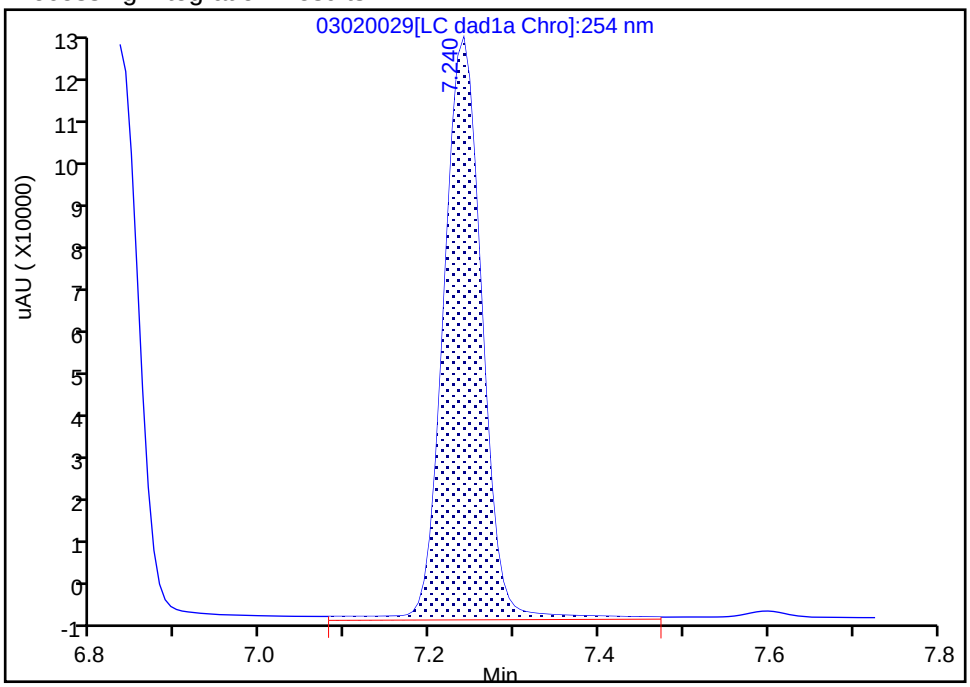
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020029.d				
Injection Date:	02-Mar-2021 23:49:27	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 8				
Client ID:					
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

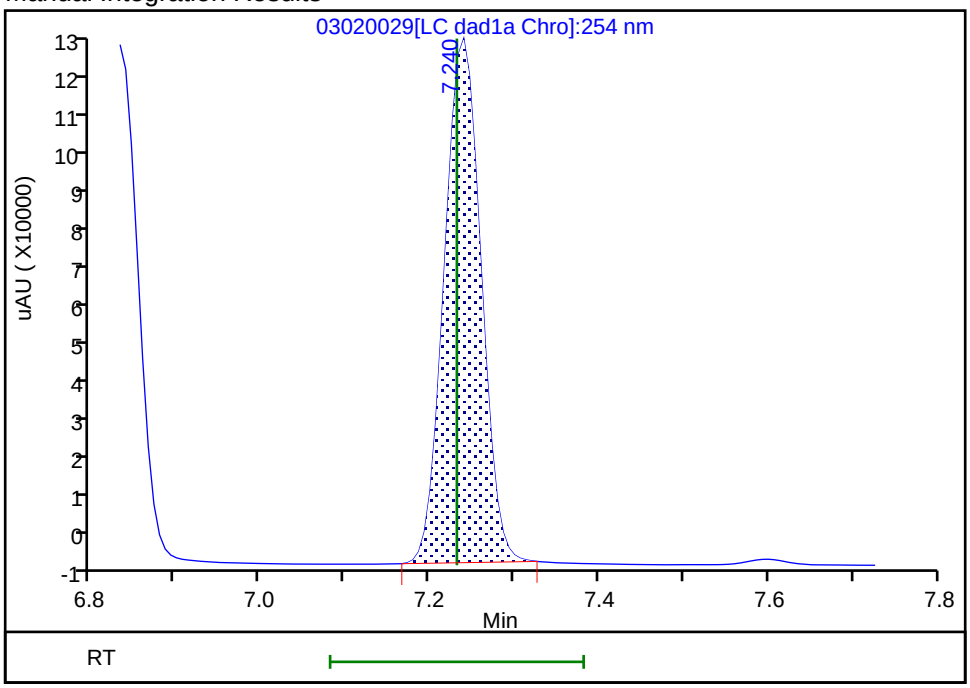
Processing Integration Results

RT: 7.24
Area: 404536
Amount: 3.036153
Amount Units: ug/mL



Manual Integration Results

RT: 7.24
Area: 382579
Amount: 2.935231
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:18:57
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020030.D				
Lims ID:	IC DMT 7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	03-Mar-2021 00:12:24	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 7				
Misc. Info.:	280-0099486-030				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:25	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:19:14

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.523	6.518	0.005	187526	1.00	1.01	M
5 DNX	1	6.836	6.832	0.004	141853	1.00	1.00	M
6 MNX	1	7.236	7.232	0.004	152050	1.17	1.17	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

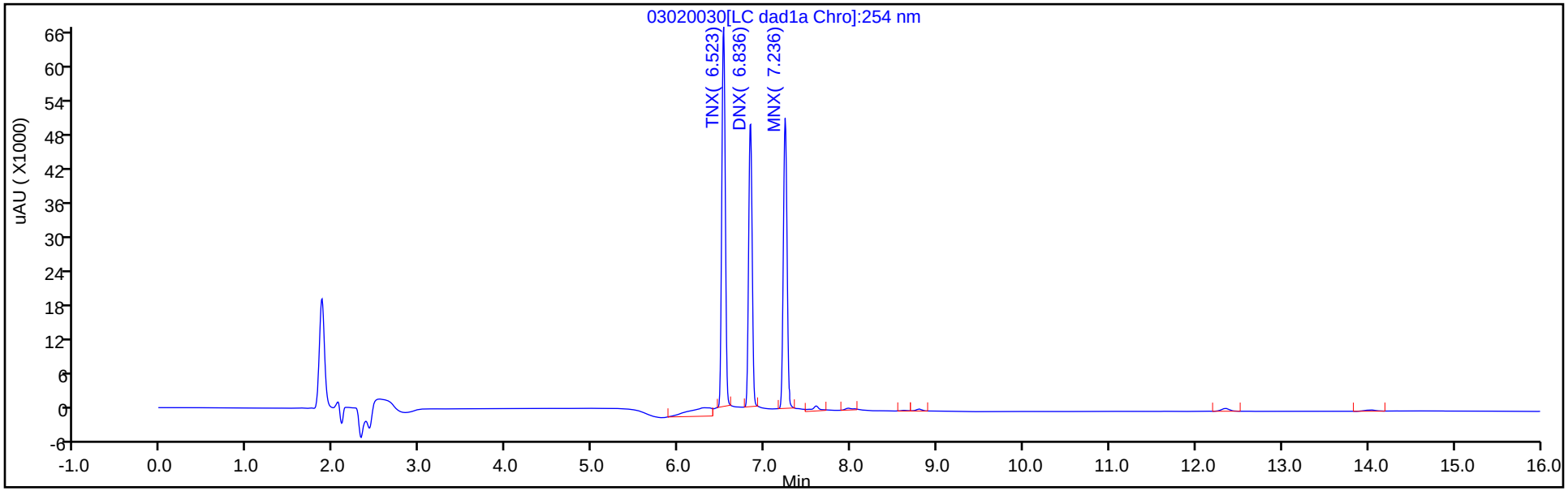
8330 DMT_00008 Amount Added: 50.00 Units: uL

Report Date: 03-Mar-2021 13:32:25 Chrom Revision: 2.3 05-Feb-2021 00:13:28

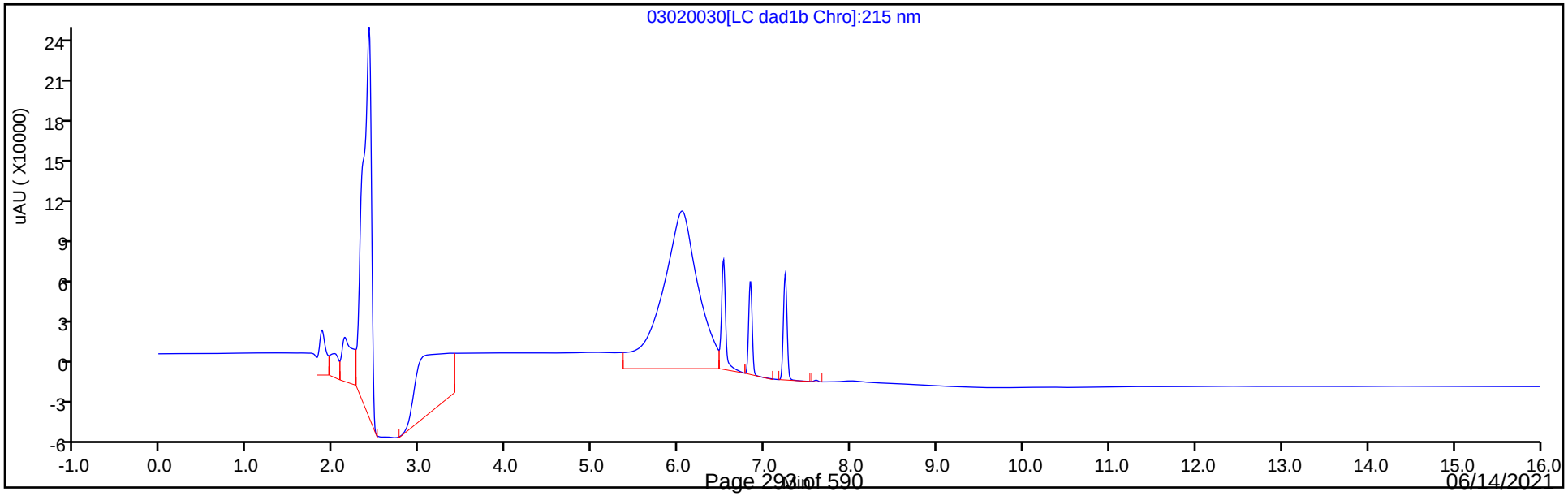
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020030.d				
Injection Date:	03-Mar-2021 00:12:24	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 7			Worklist Smp#:	30
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

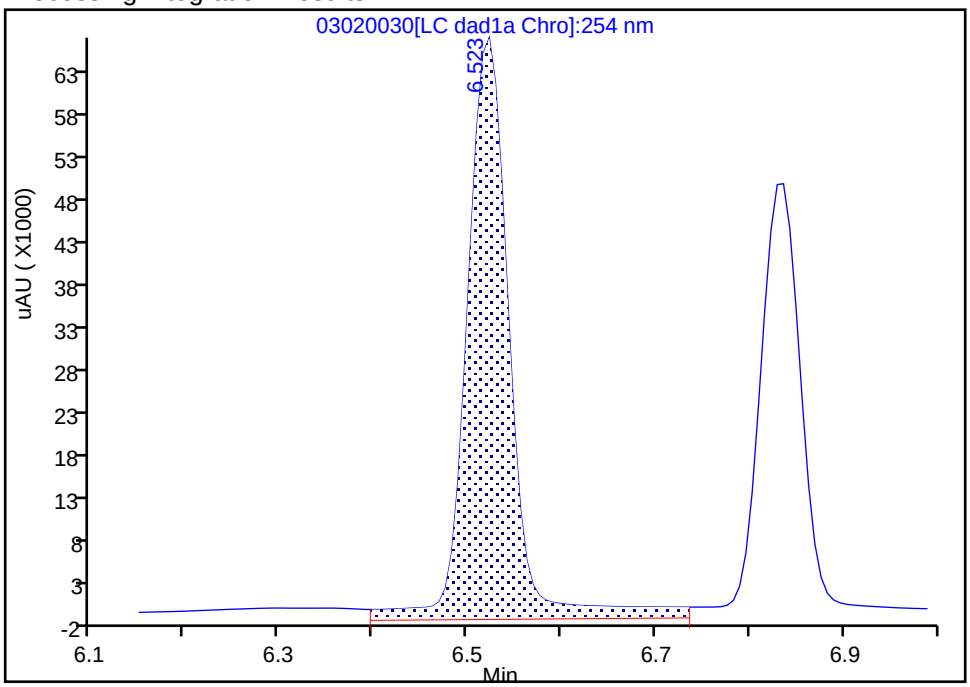
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020030.d				
Injection Date:	03-Mar-2021 00:12:24	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

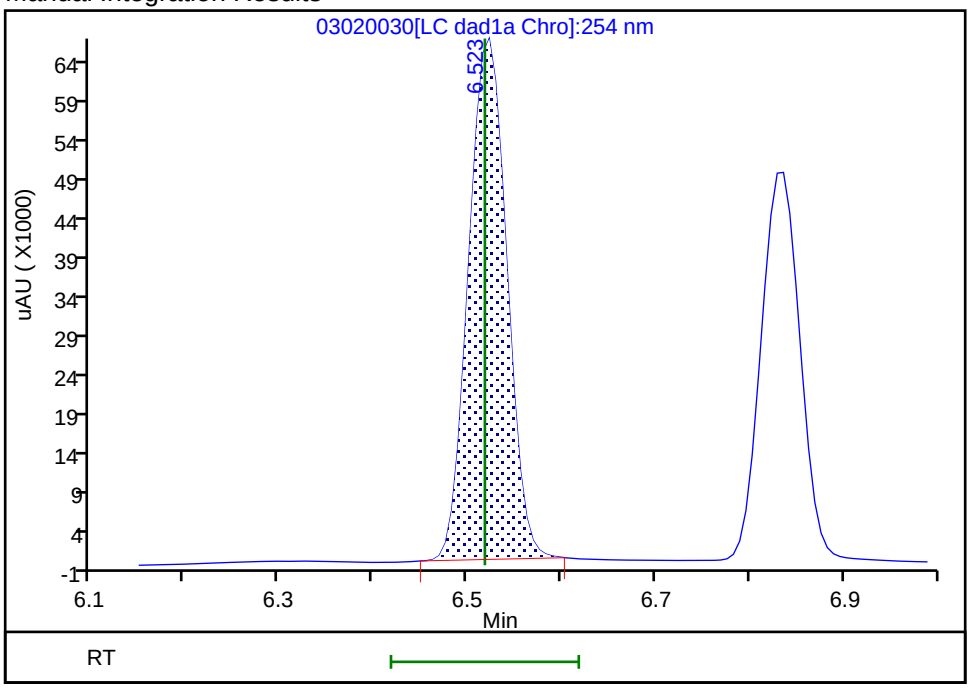
Processing Integration Results

RT: 6.52
Area: 217440
Amount: 0.997461
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 187526
Amount: 1.009257
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:13

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

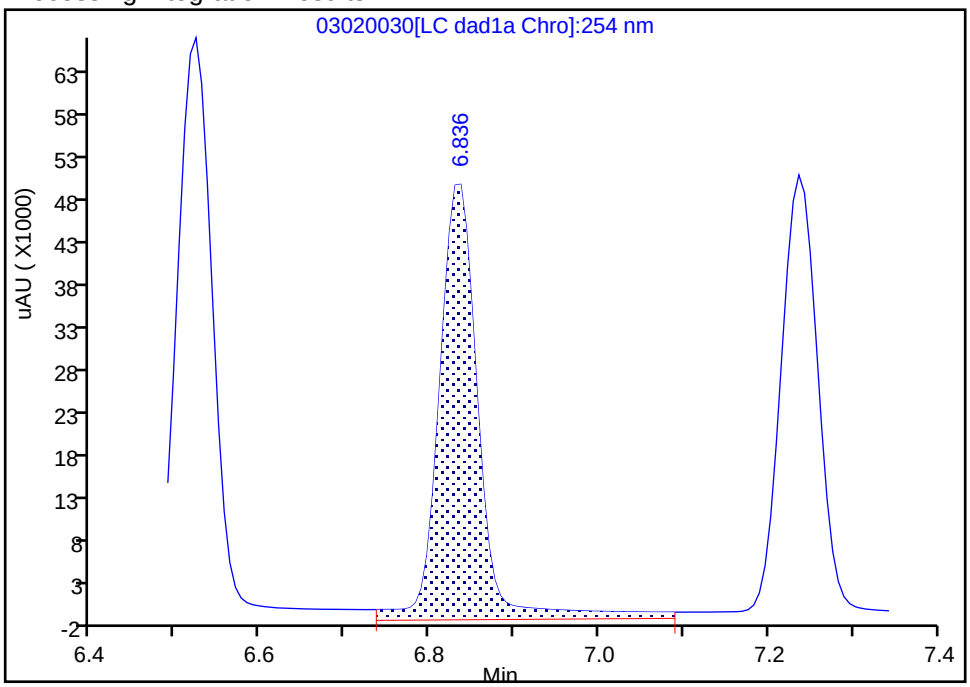
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020030.d				
Injection Date:	03-Mar-2021 00:12:24	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

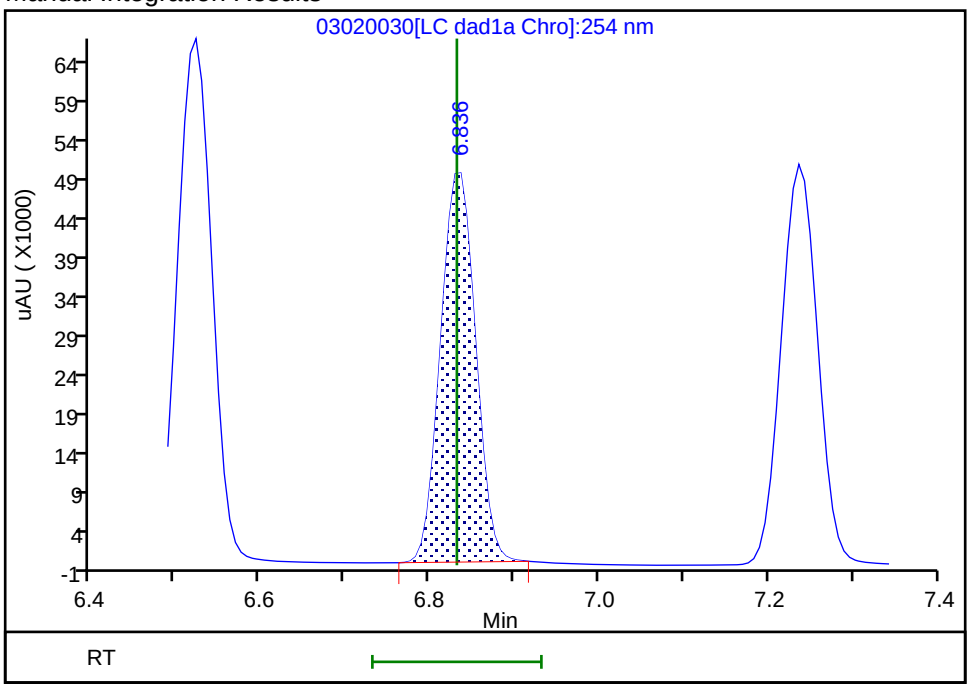
Processing Integration Results

RT: 6.84
Area: 165195
Amount: 1.028693
Amount Units: ug/mL



Manual Integration Results

RT: 6.84
Area: 141853
Amount: 0.998126
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:09

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

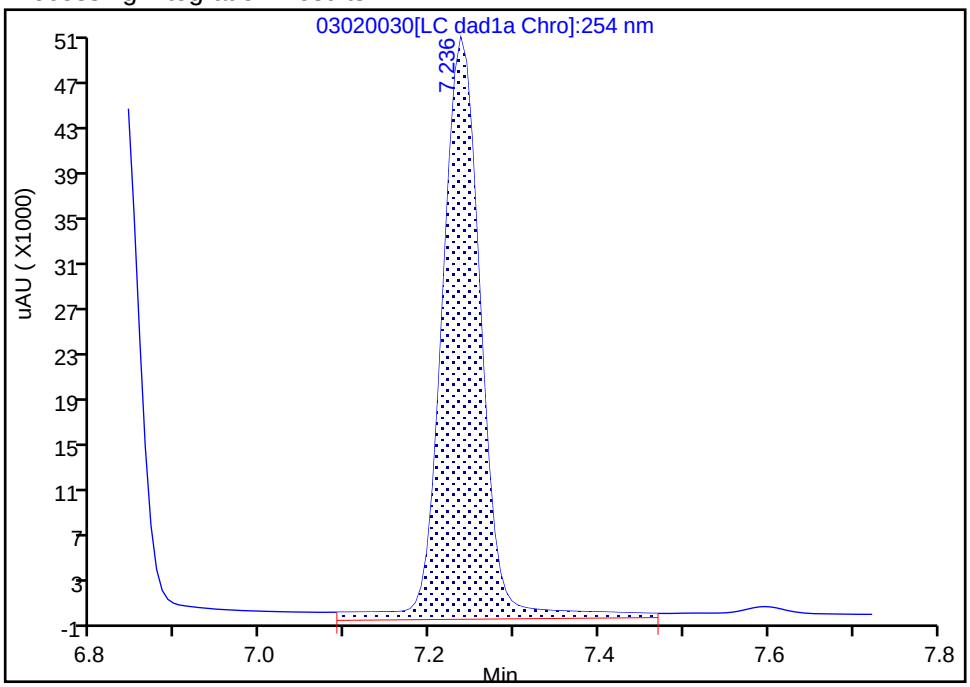
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020030.d				
Injection Date:	03-Mar-2021 00:12:24	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

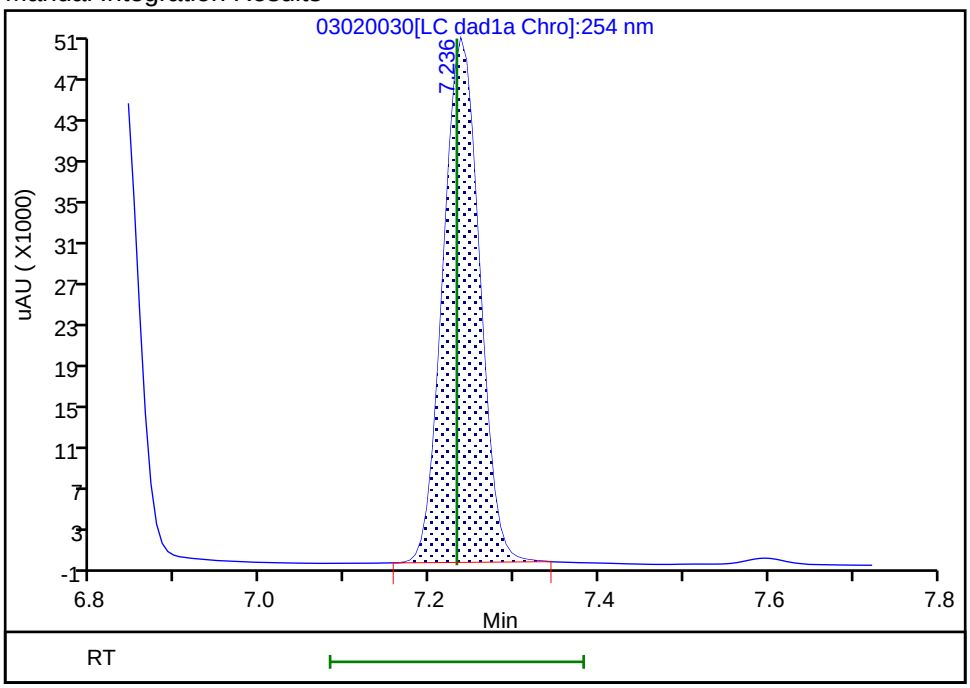
Processing Integration Results

RT: 7.24
Area: 166888
Amount: 1.261447
Amount Units: ug/mL



Manual Integration Results

RT: 7.24
Area: 152050
Amount: 1.166561
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:05
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020031.D				
Lims ID:	IC DMT 6				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	03-Mar-2021 00:35:25	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 6				
Misc. Info.:	280-0099486-031				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:26	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:19:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.519	6.518	0.001	131907	0.7007	0.7099	M
5 DNX	1	6.833	6.832	0.001	100368	0.7007	0.7062	M
6 MNX	1	7.239	7.232	0.007	107376	0.8169	0.8238	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

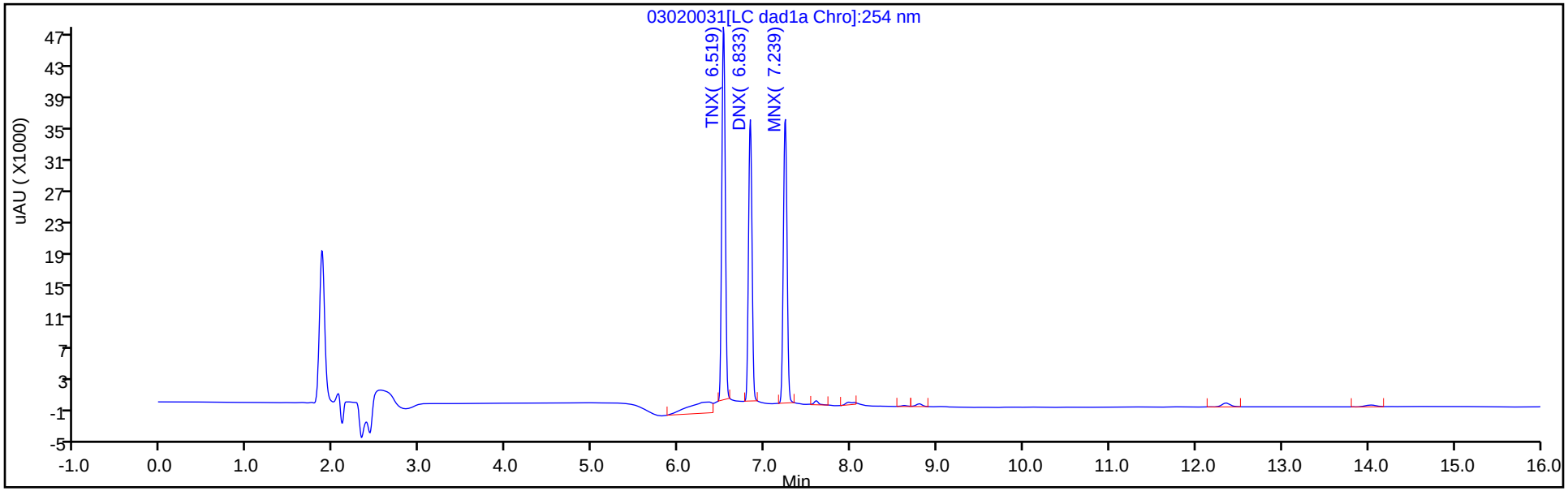
8330 DMT_00008 Amount Added: 35.00 Units: uL

Report Date: 03-Mar-2021 13:32:26 Chrom Revision: 2.3 05-Feb-2021 00:13:28

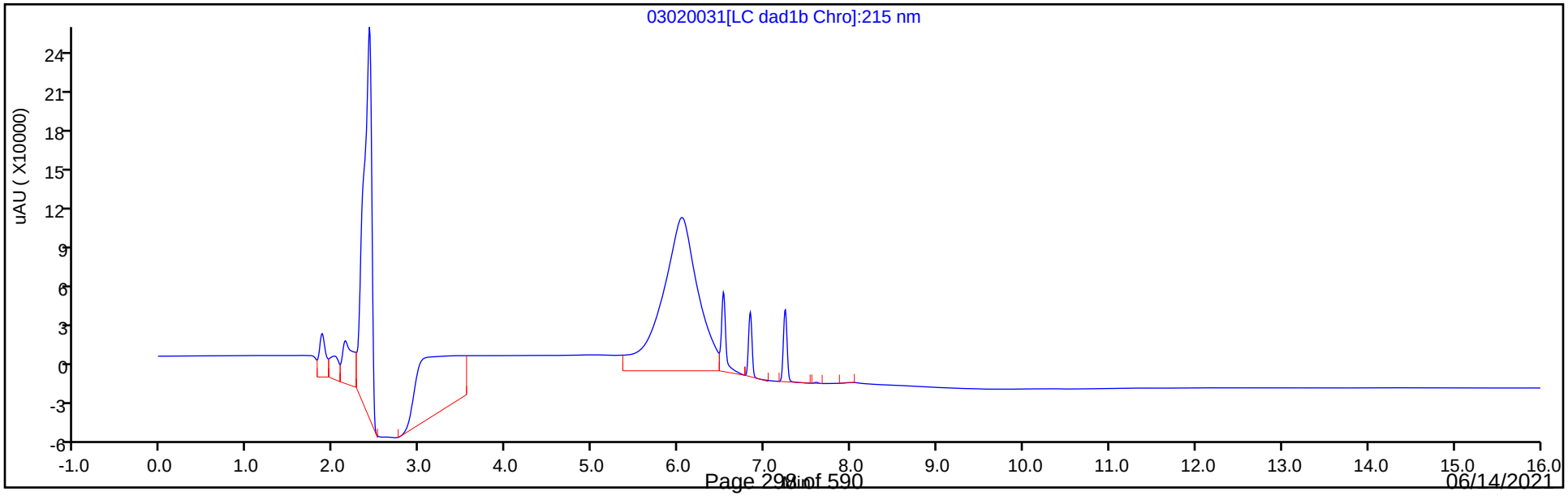
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020031.d				
Injection Date:	03-Mar-2021 00:35:25	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 6			Worklist Smp#:	31
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

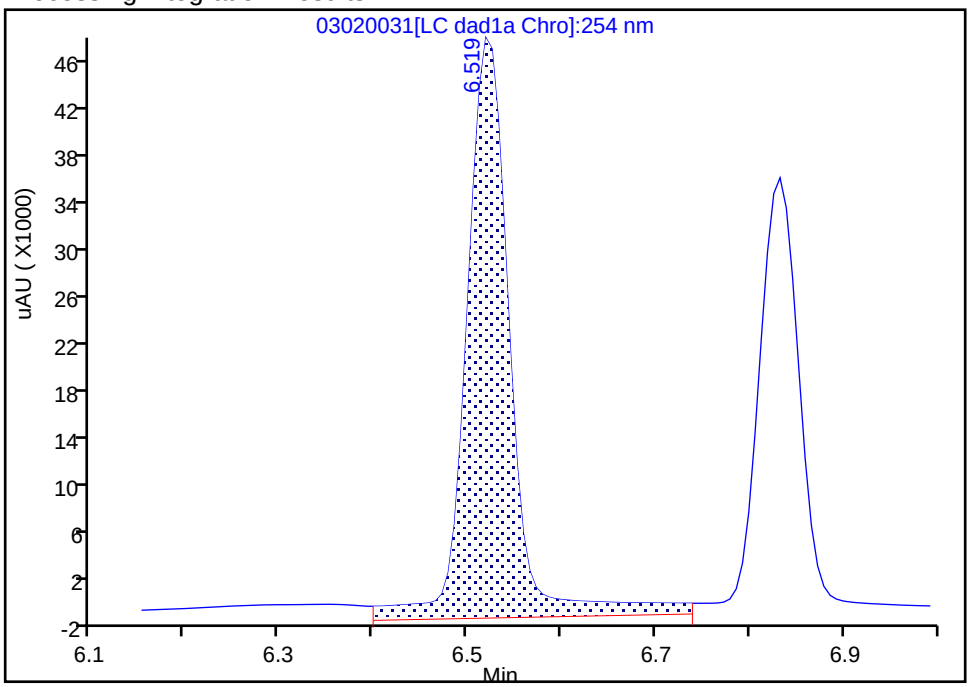
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020031.d				
Injection Date:	03-Mar-2021 00:35:25	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 6				
Client ID:					
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

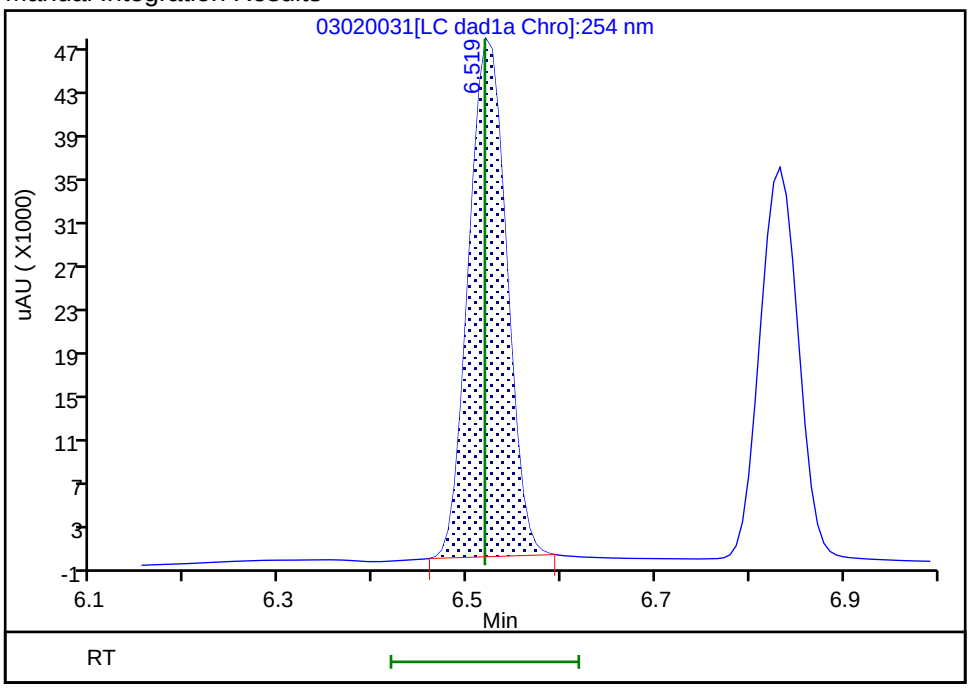
Processing Integration Results

RT: 6.52
Area: 157523
Amount: 0.765441
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 131907
Amount: 0.709918
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

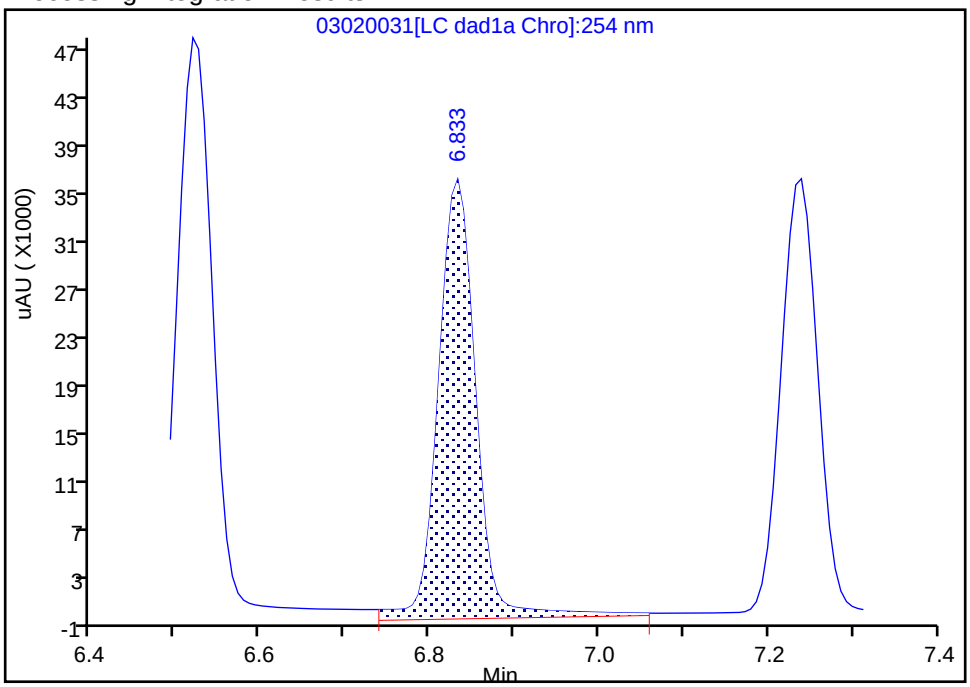
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020031.d				
Injection Date:	03-Mar-2021 00:35:25	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 6				
Client ID:					
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

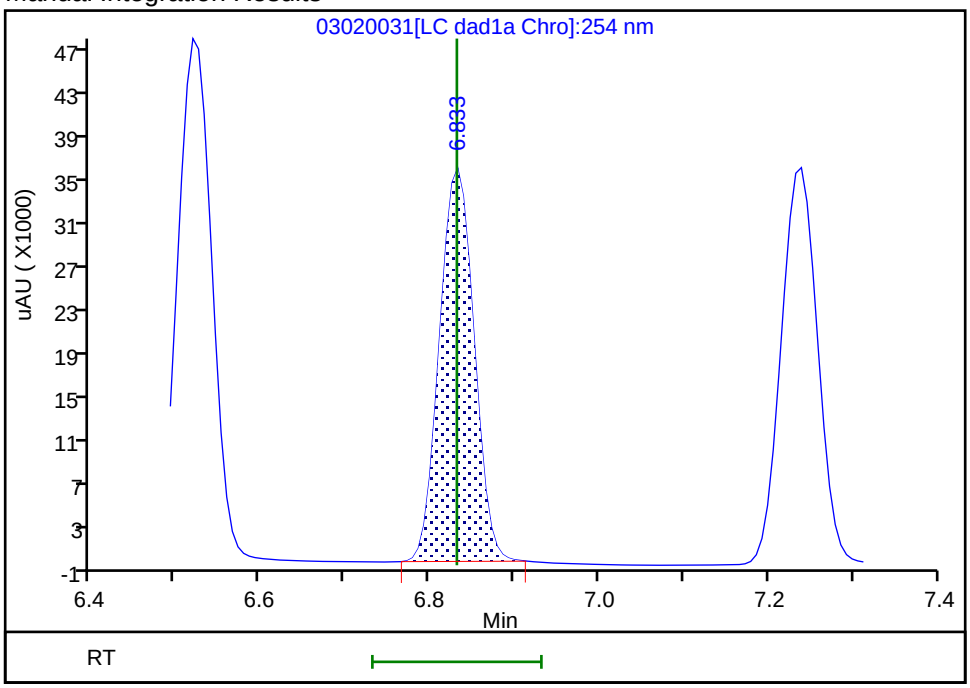
Processing Integration Results

RT: 6.83
Area: 112441
Amount: 0.713130
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 100368
Amount: 0.706223
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:27

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

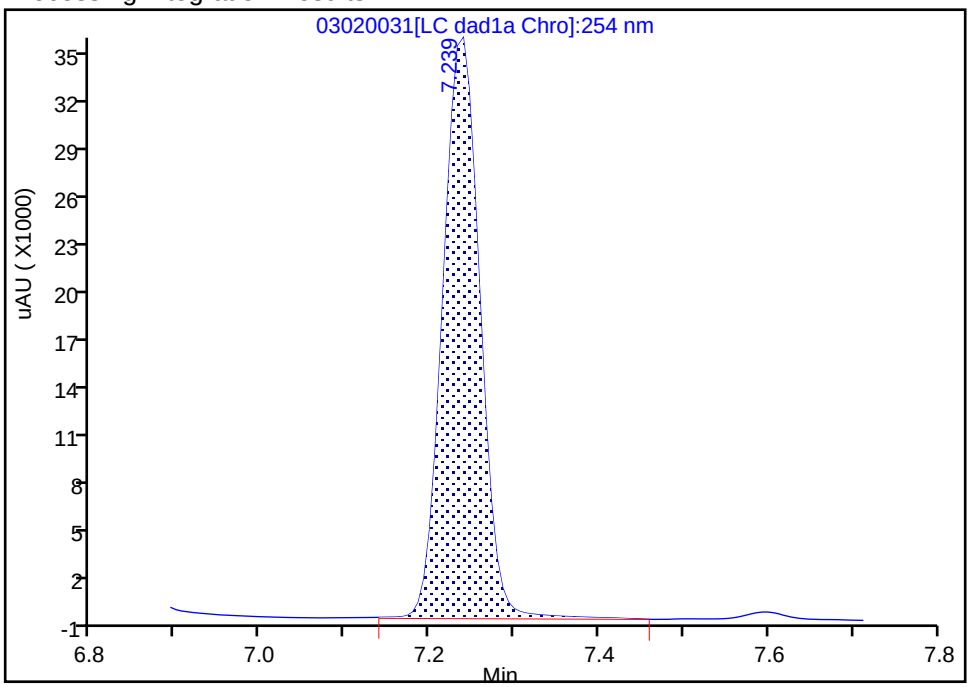
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020031.d				
Injection Date:	03-Mar-2021 00:35:25	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 6				
Client ID:					
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

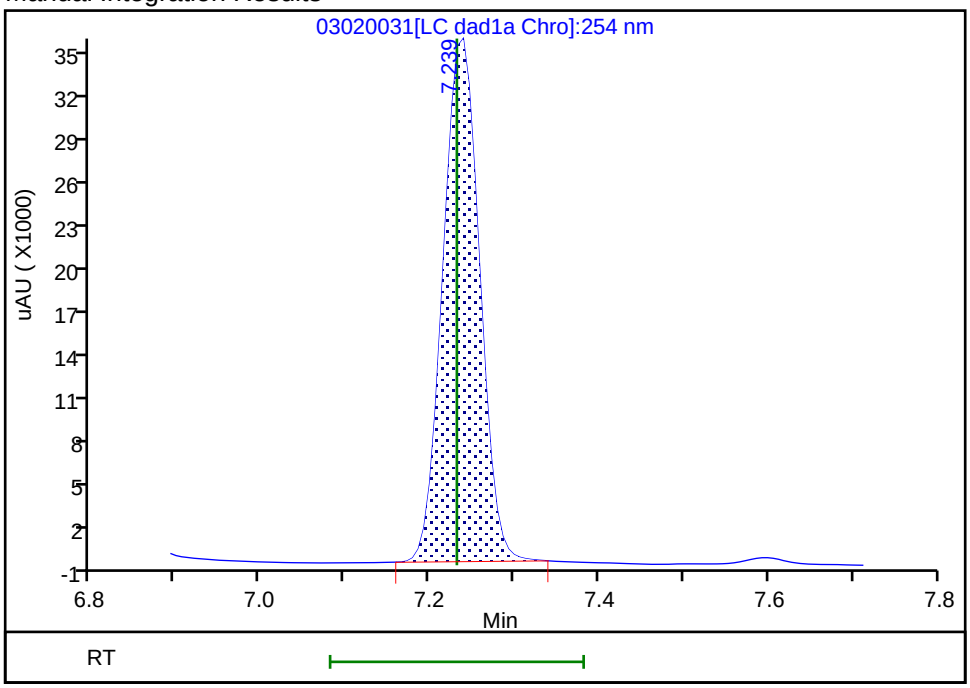
Processing Integration Results

RT: 7.24
Area: 109789
Amount: 0.839946
Amount Units: ug/mL



Manual Integration Results

RT: 7.24
Area: 107376
Amount: 0.823813
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:32
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020032.D				
Lims ID:	IC DMT 5				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	03-Mar-2021 00:58:19	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 5				
Misc. Info.:	280-0099486-032				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:27	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:19:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.521	6.518	0.003	75195	0.4004	0.4047	M
5 DNX	1	6.828	6.832	-0.004	57462	0.4004	0.4043	M
6 MNX	1	7.234	7.232	0.002	61731	0.4668	0.4736	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

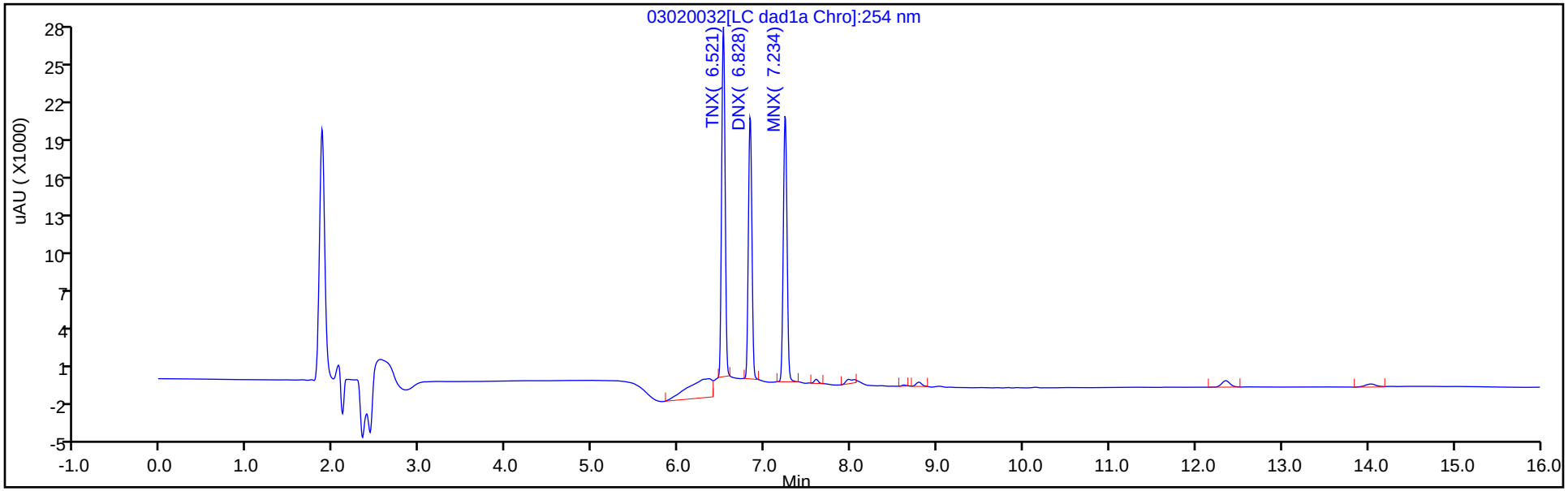
8330 DMT_00008 Amount Added: 20.00 Units: uL

Report Date: 03-Mar-2021 13:32:27 Chrom Revision: 2.3 05-Feb-2021 00:13:28

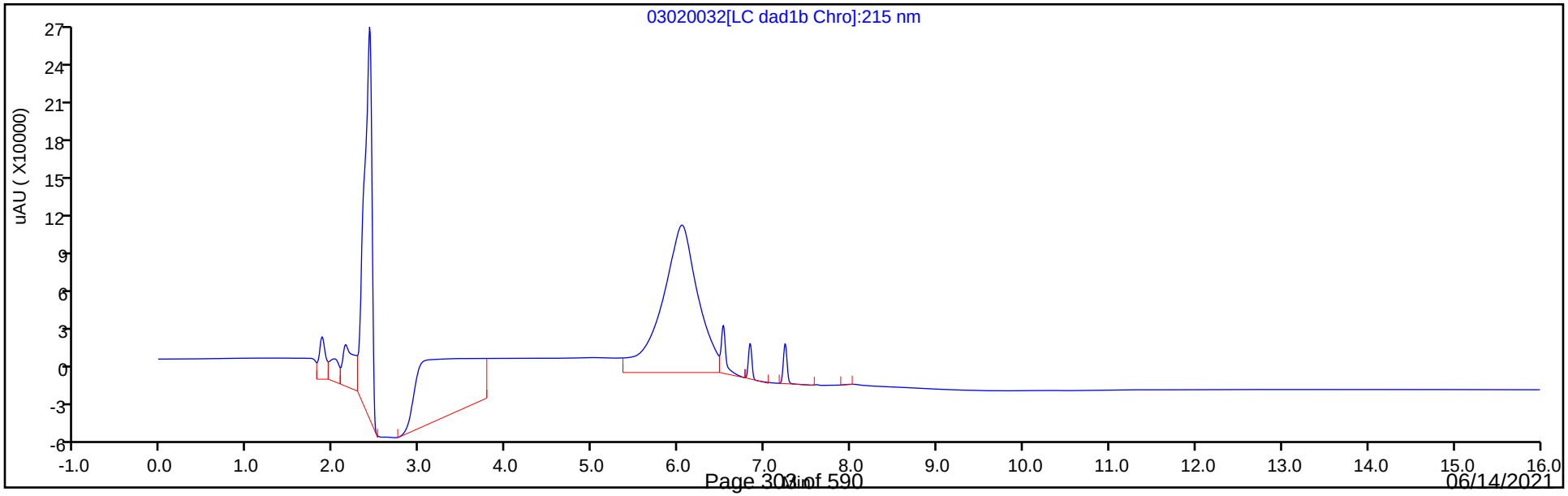
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020032.d				
Injection Date:	03-Mar-2021 00:58:19	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 5			Worklist Smp#:	32
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

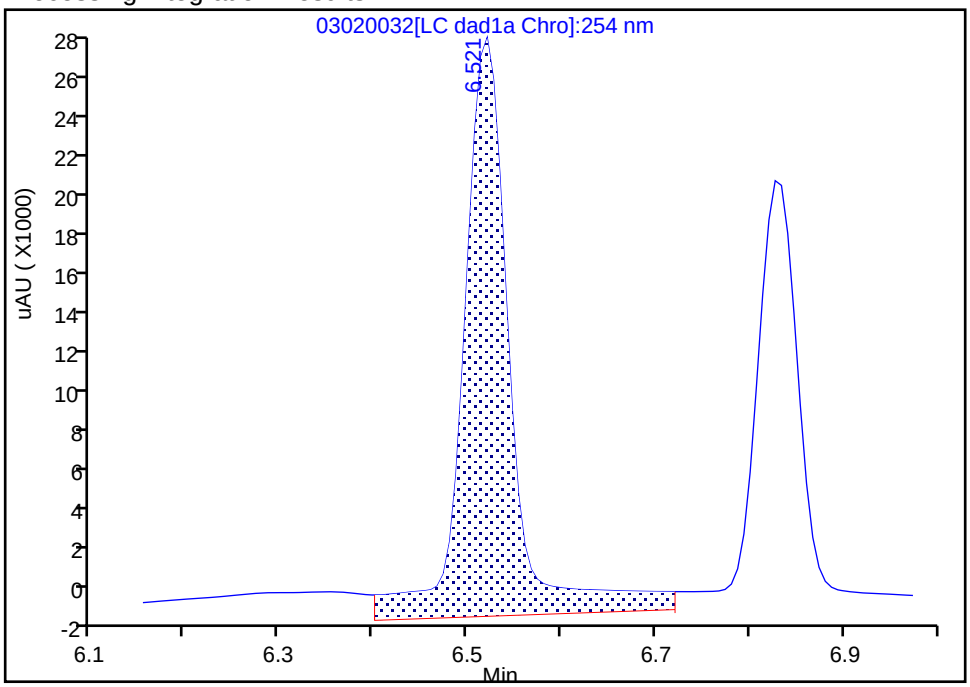
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020032.d				
Injection Date:	03-Mar-2021 00:58:19	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 5				
Client ID:					
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

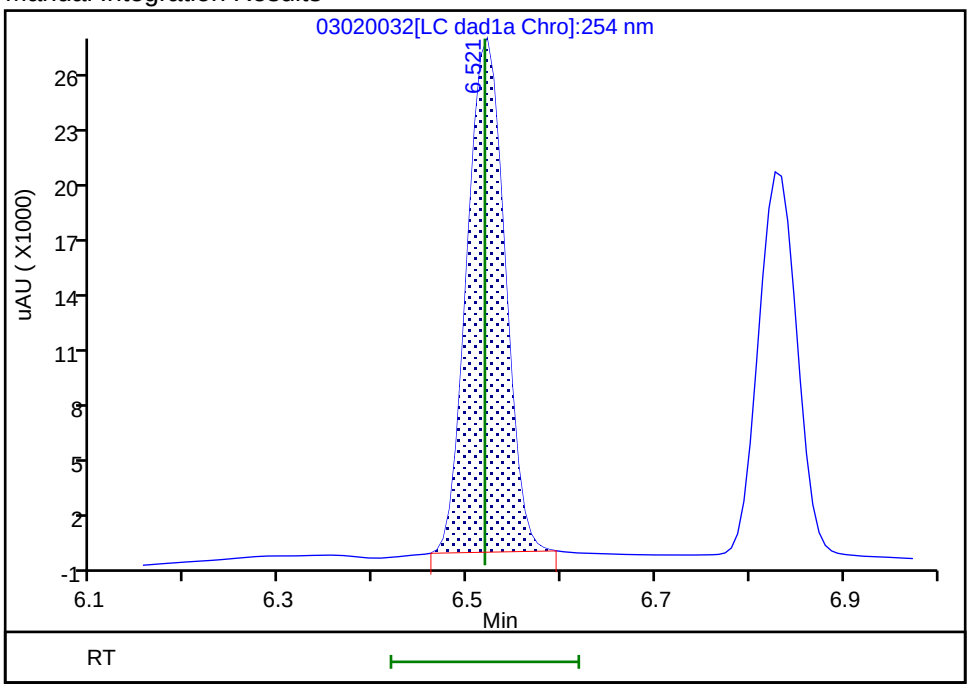
Processing Integration Results

RT: 6.52
Area: 98522
Amount: 0.473037
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 75195
Amount: 0.404696
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

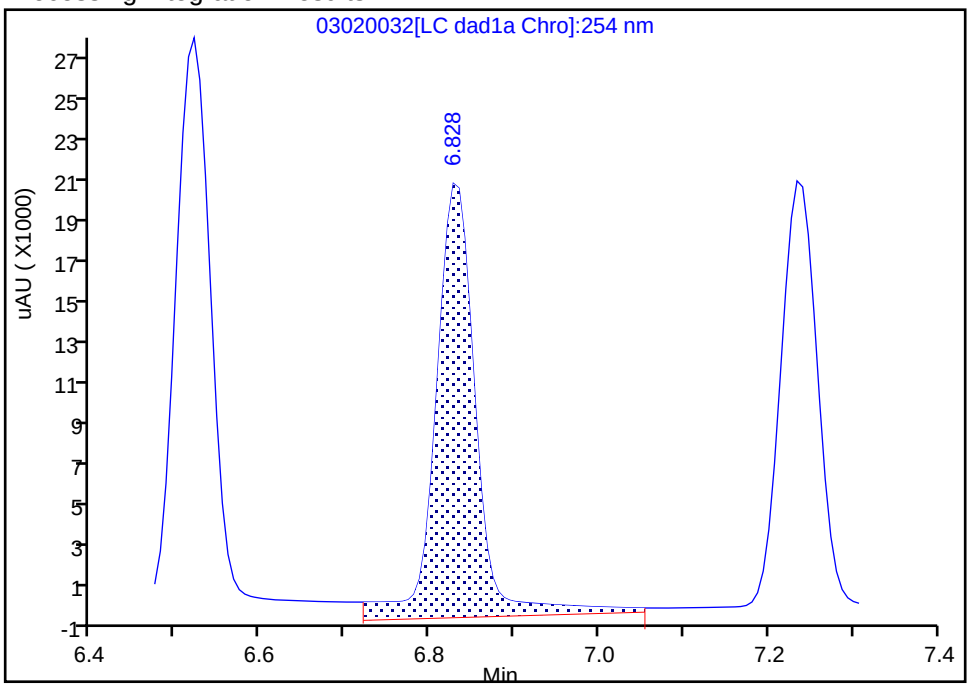
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020032.d				
Injection Date:	03-Mar-2021 00:58:19	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 5				
Client ID:					
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

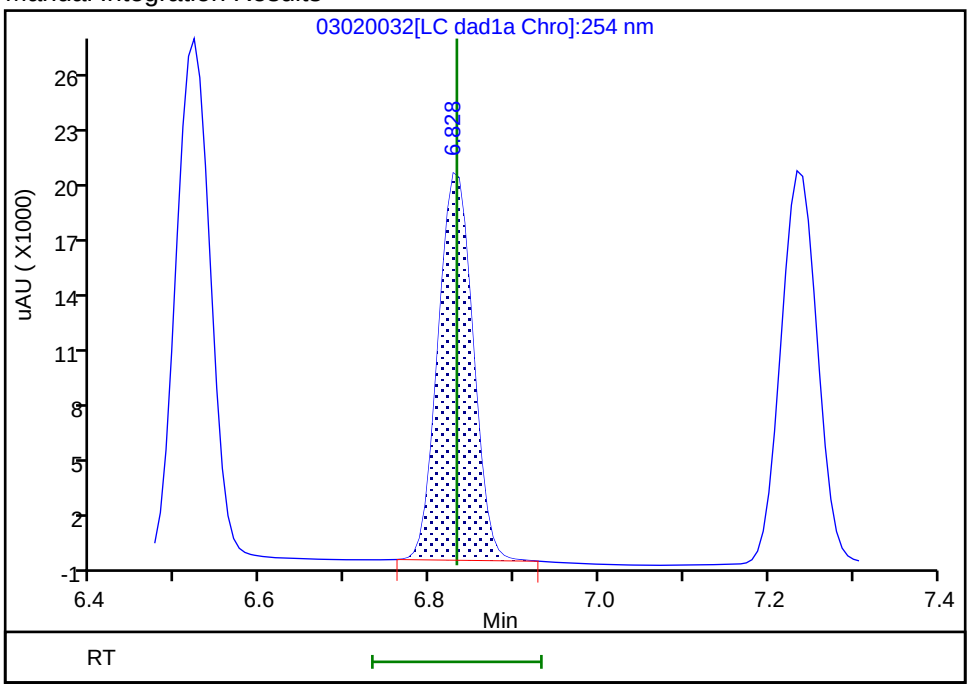
Processing Integration Results

RT: 6.83
Area: 69186
Amount: 0.444873
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 57462
Amount: 0.404322
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:19:42
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020033.D				
Lims ID:	IC DMT 4				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	03-Mar-2021 01:21:15	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 4				
Misc. Info.:	280-0099486-033				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:28	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:20:09

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.518	6.518	0.000	44228	0.2503	0.2380	M
5 DNX	1	6.832	6.832	0.000	33502	0.2503	0.2357	M
6 MNX	1	7.232	7.232	0.000	36376	0.2918	0.2791	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

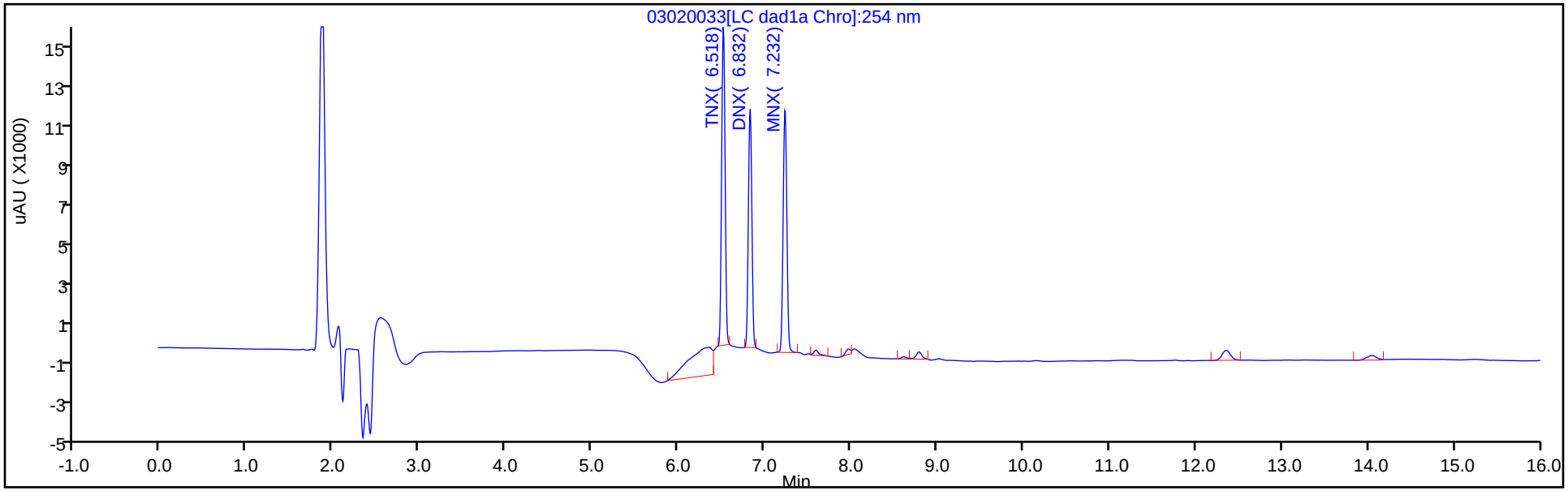
8330 DMT_00008 Amount Added: 12.50 Units: uL

Report Date: 03-Mar-2021 13:32:28 Chrom Revision: 2.3 05-Feb-2021 00:13:28

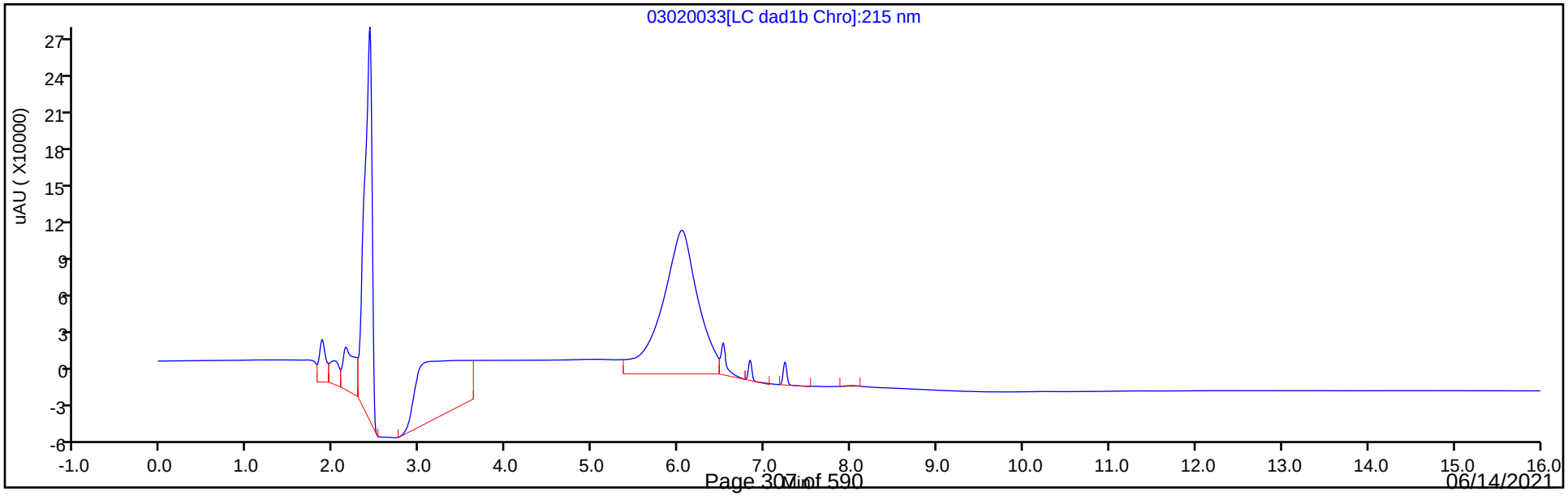
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020033.d				
Injection Date:	03-Mar-2021 01:21:15	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 4			Worklist Smp#:	33
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

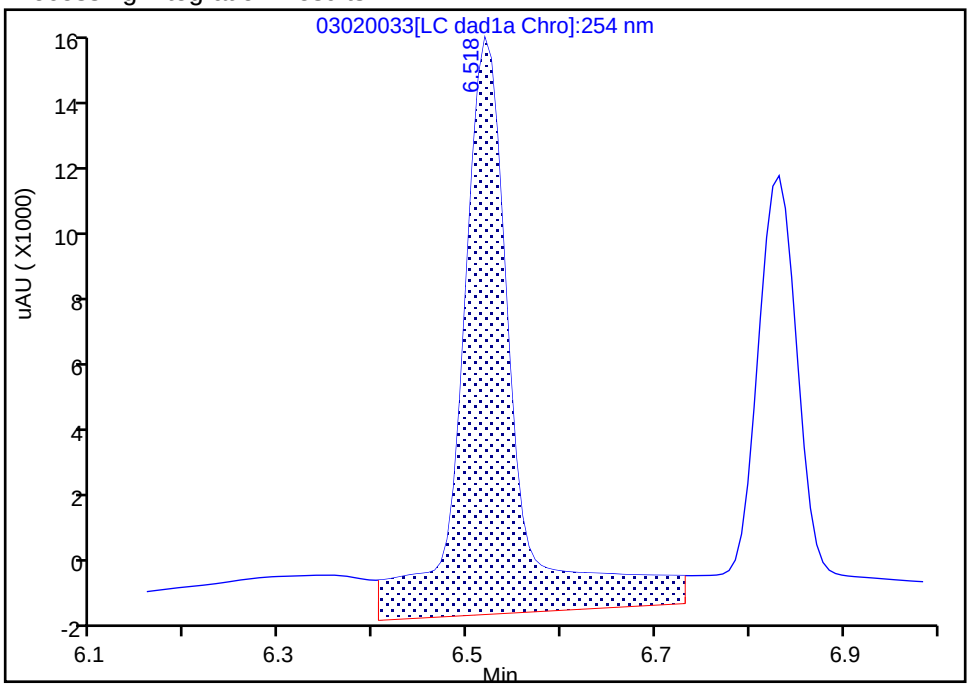
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020033.d				
Injection Date:	03-Mar-2021 01:21:15	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 4				
Client ID:					
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

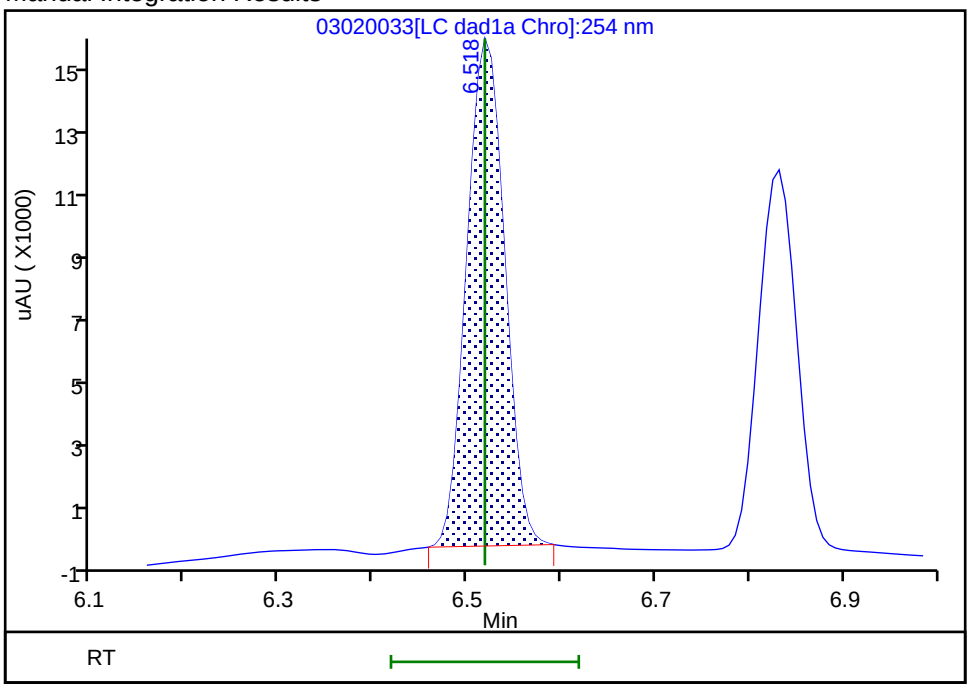
Processing Integration Results

RT: 6.52
Area: 66731
Amount: 0.312730
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 44228
Amount: 0.238033
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

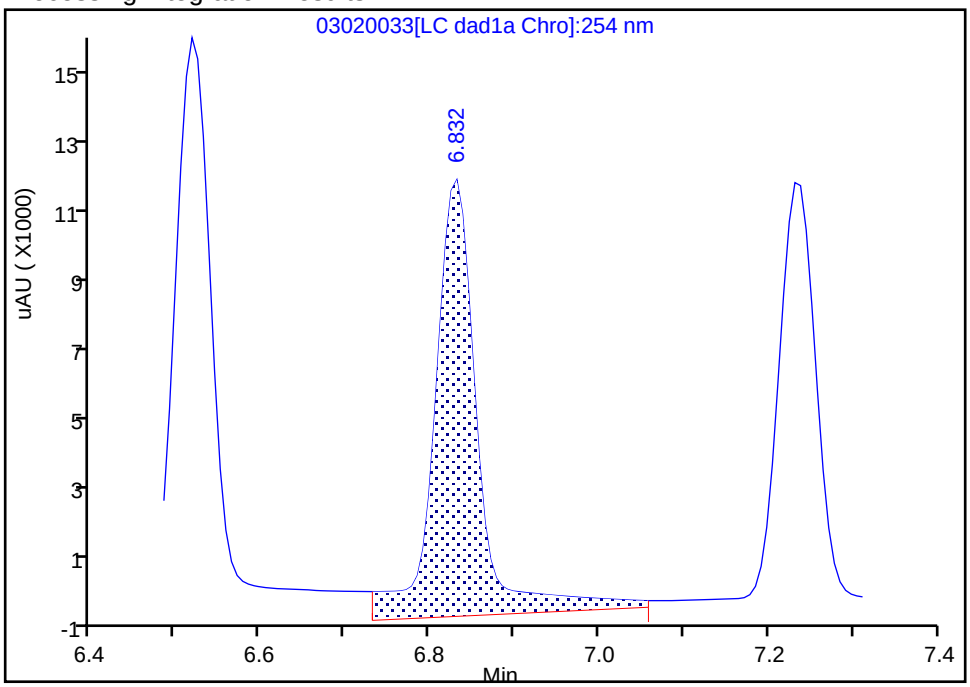
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020033.d				
Injection Date:	03-Mar-2021 01:21:15	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 4				
Client ID:					
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

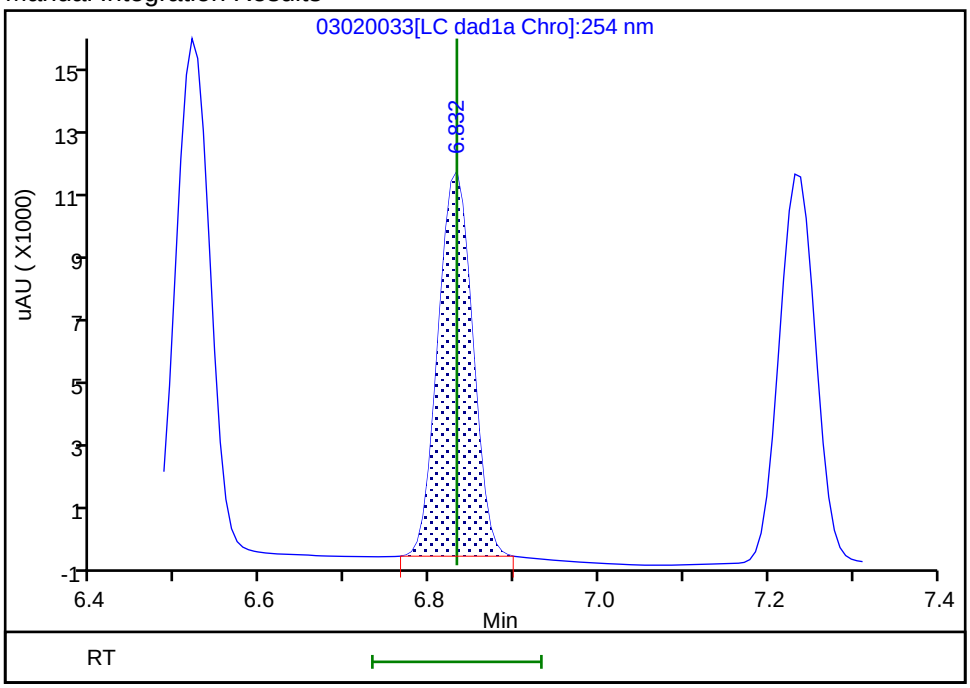
Processing Integration Results

RT: 6.83
Area: 44700
Amount: 0.294353
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 33502
Amount: 0.235731
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:06

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020034.D				
Lims ID:	IC DMT 3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	03-Mar-2021 01:44:28	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 3				
Misc. Info.:	280-0099486-034				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:29	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:20:27

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.522	6.518	0.004	18578	0.1001	0.1000	M
5 DNX	1	6.828	6.832	-0.004	13949	0.1001	0.0981	M
6 MNX	1	7.235	7.232	0.003	15275	0.1167	0.1172	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

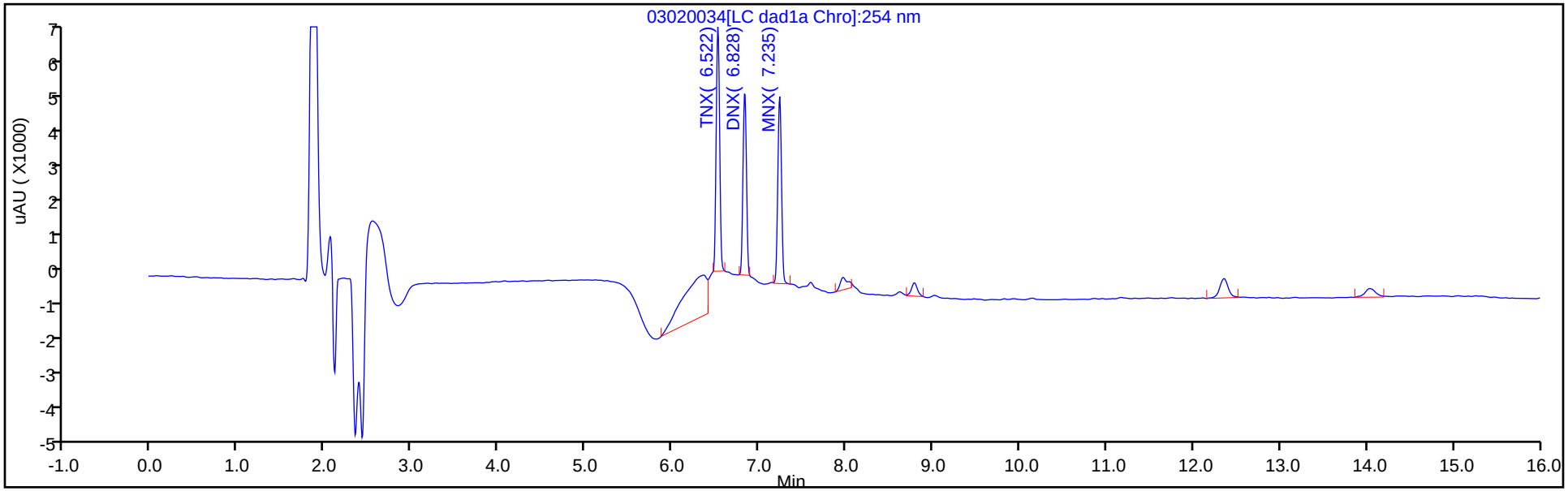
8330 DMT_00008 Amount Added: 5.00 Units: uL

Report Date: 03-Mar-2021 13:32:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

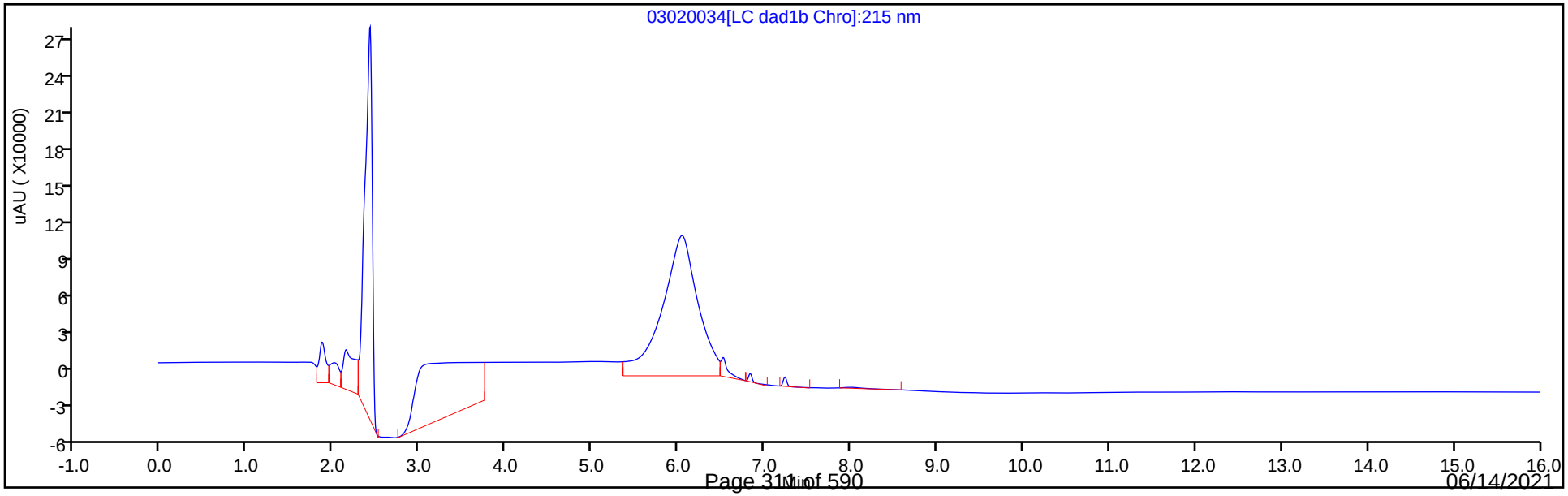
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020034.d				
Injection Date:	03-Mar-2021 01:44:28	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 3			Worklist Smp#:	34
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

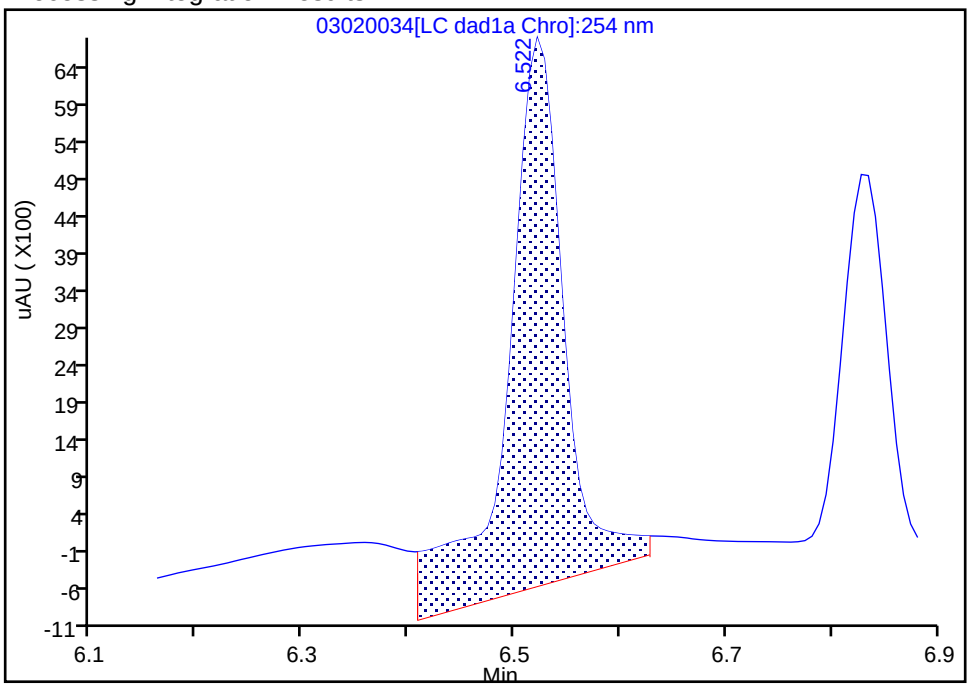
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020034.d				
Injection Date:	03-Mar-2021 01:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 3				
Client ID:					
Operator ID:		ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

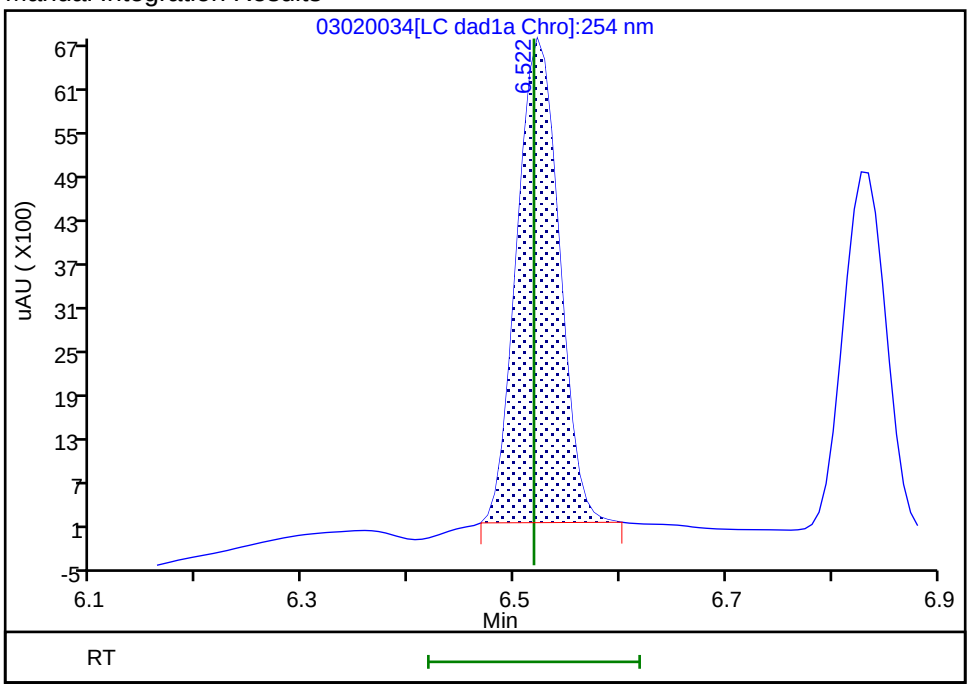
Processing Integration Results

RT: 6.52
Area: 27541
Amount: 0.106458
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 18578
Amount: 0.099986
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

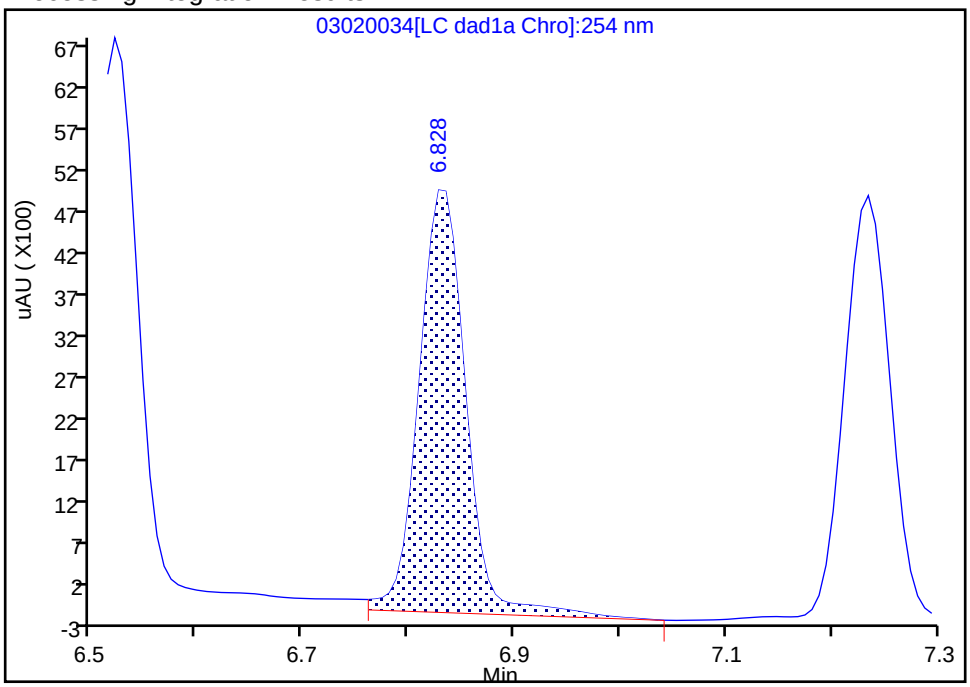
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020034.d				
Injection Date:	03-Mar-2021 01:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 3				
Client ID:					
Operator ID:		ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

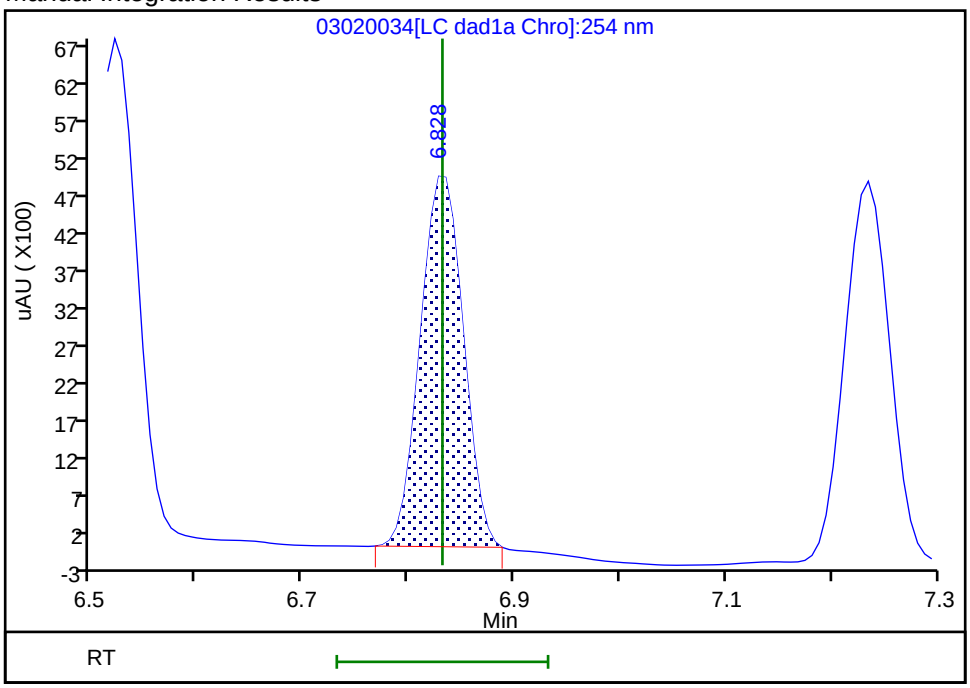
Processing Integration Results

RT: 6.83
Area: 15711
Amount: 0.107414
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 13949
Amount: 0.098150
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:22

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020035.D				
Lims ID:	IC DMT 2				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	03-Mar-2021 02:07:25	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 2				
Misc. Info.:	280-0099486-035				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:30	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:20:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.522	6.518	0.004	9328	0.0501	0.0502	M
5 DNX	1	6.829	6.832	-0.003	7121	0.0501	0.0501	M
6 MNX	1	7.235	7.232	0.003	7585	0.0584	0.0582	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

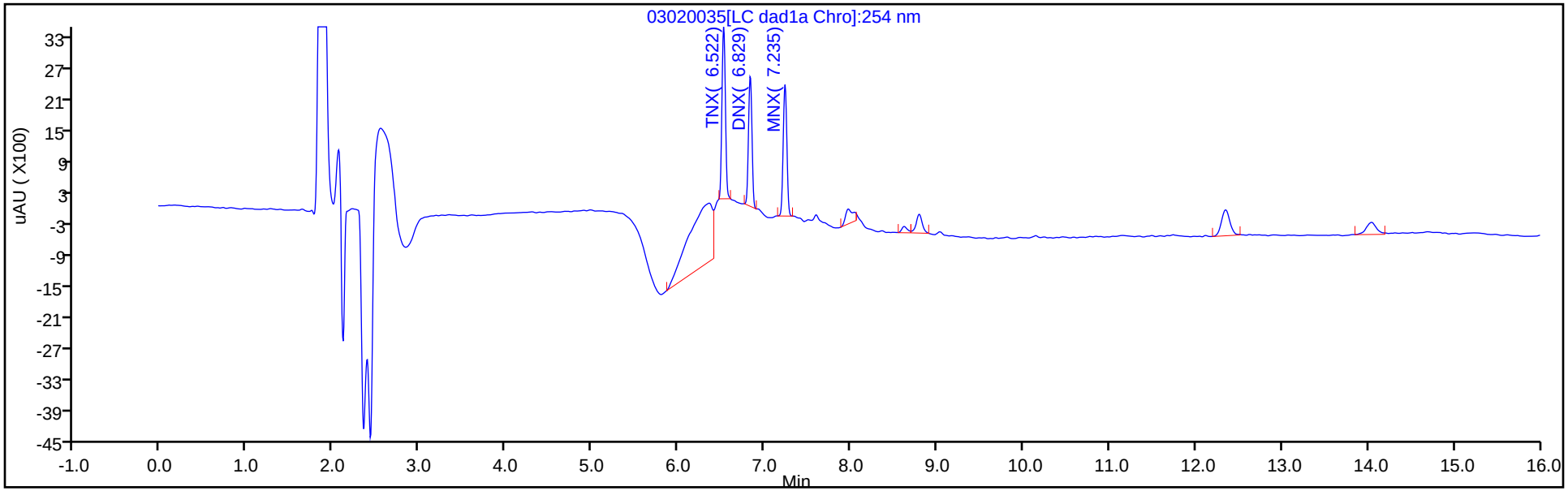
8330 DMT_00008 Amount Added: 2.50 Units: uL

Report Date: 03-Mar-2021 13:32:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

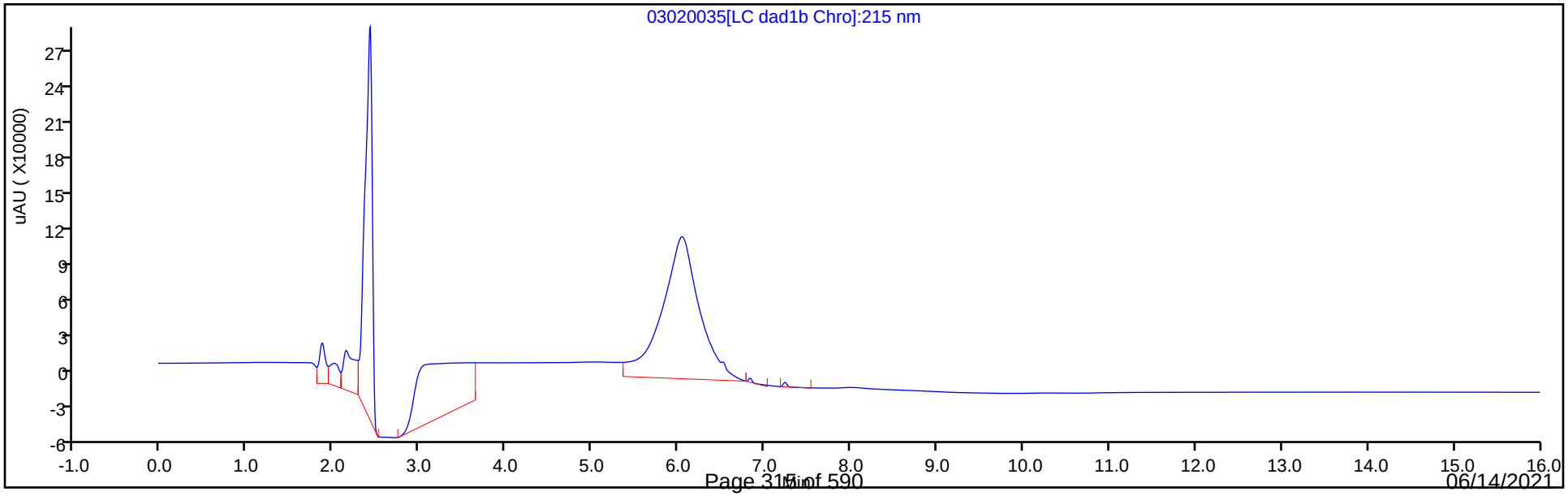
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020035.d				
Injection Date:	03-Mar-2021 02:07:25	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 2			Worklist Smp#:	35
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

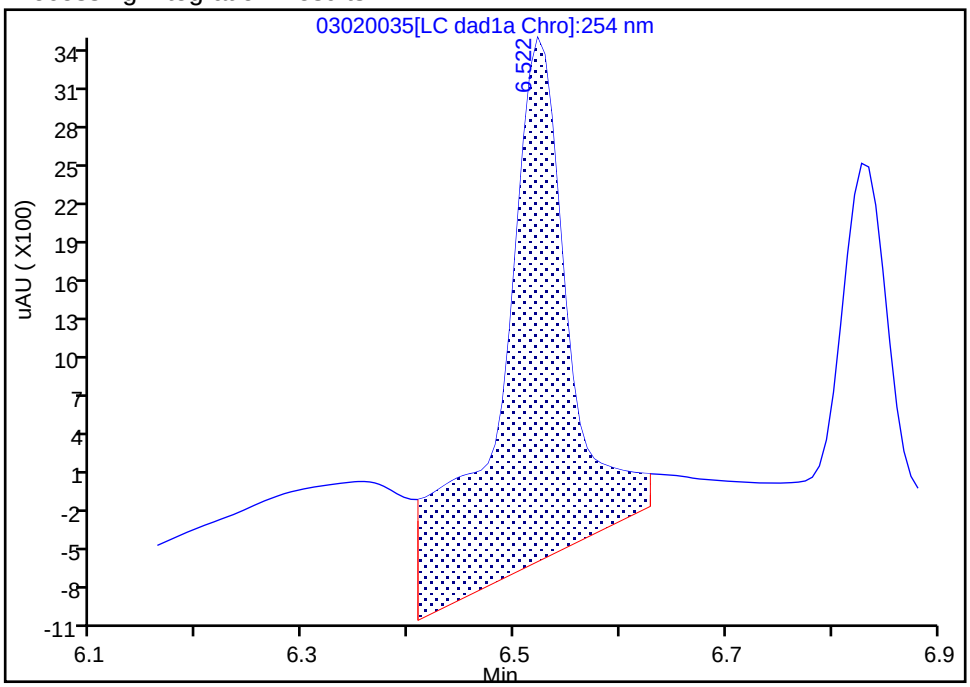
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020035.d				
Injection Date:	03-Mar-2021 02:07:25	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 2				
Client ID:					
Operator ID:		ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

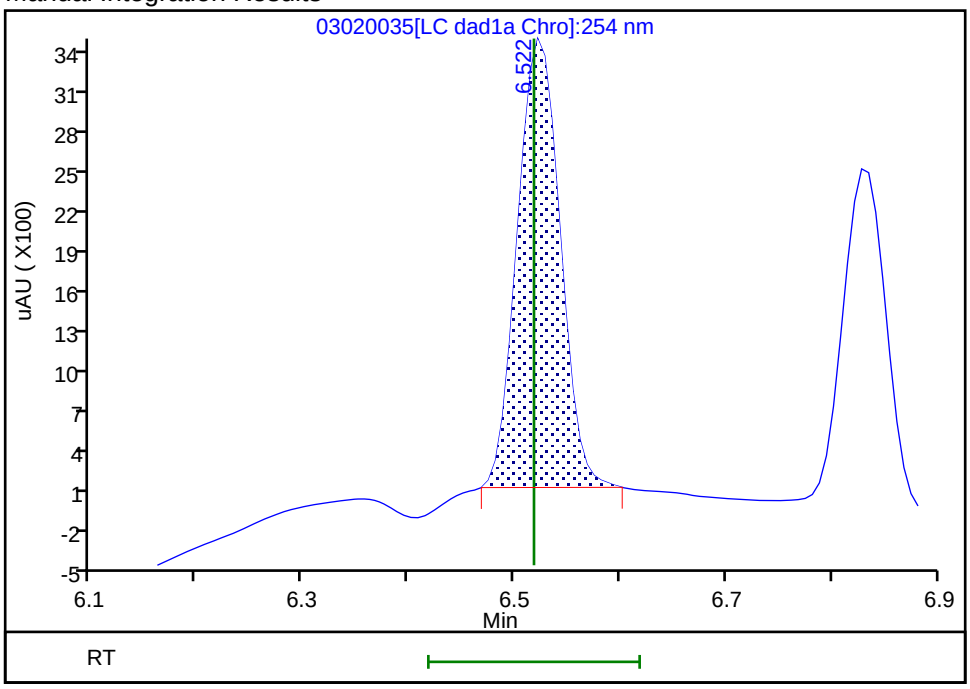
Processing Integration Results

RT: 6.52
Area: 18356
Amount: 0.060447
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 9328
Amount: 0.050203
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

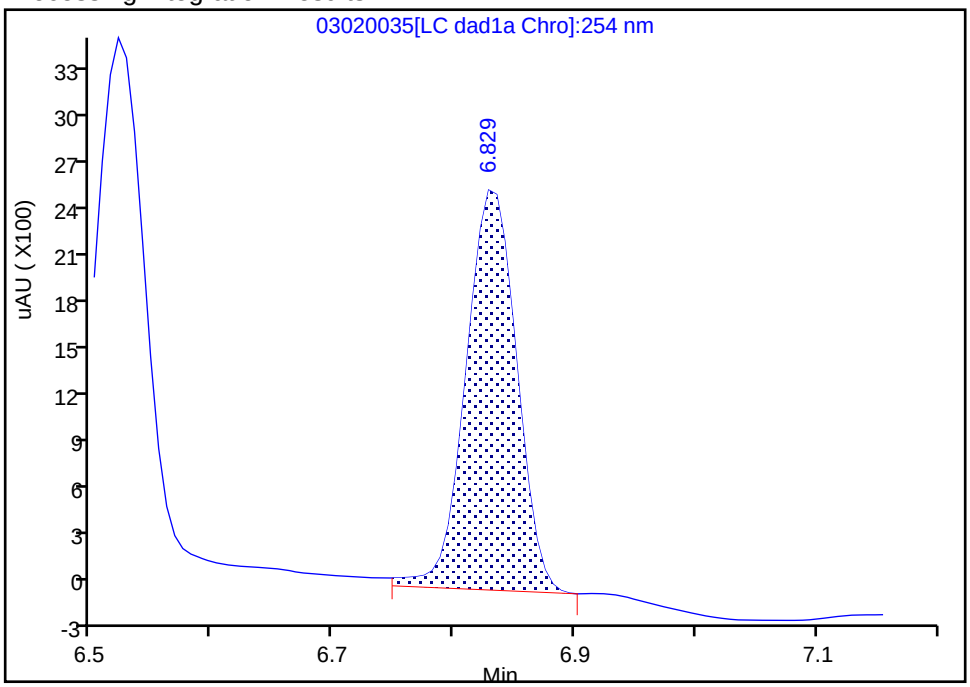
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020035.d				
Injection Date:	03-Mar-2021 02:07:25	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 2				
Client ID:					
Operator ID:		ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

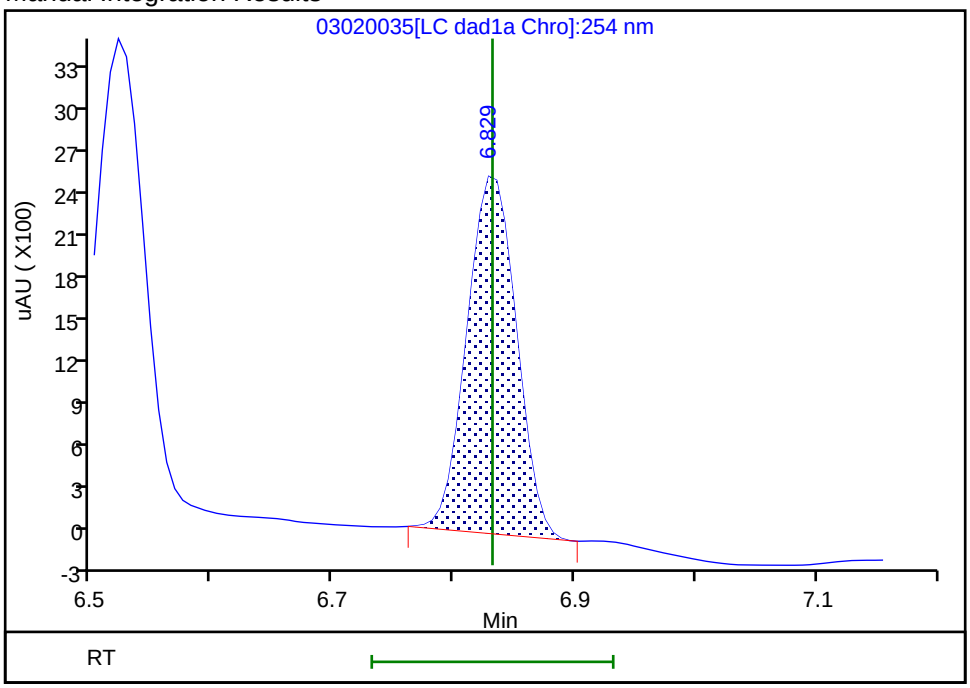
Processing Integration Results

RT: 6.83
Area: 7405
Amount: 0.051400
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 7121
Amount: 0.050106
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:41
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Lims ID:	IC DMT 1				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	03-Mar-2021 02:30:22	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 1				
Misc. Info.:	280-0099486-036				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:32:31	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:21:03

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.521	6.518	0.003	3664	0.0200	0.0197	M
5 DNX	1	6.827	6.832	-0.005	2984	0.0200	0.0210	M
6 MNX	1	7.234	7.232	0.002	3082	0.0233	0.0236	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

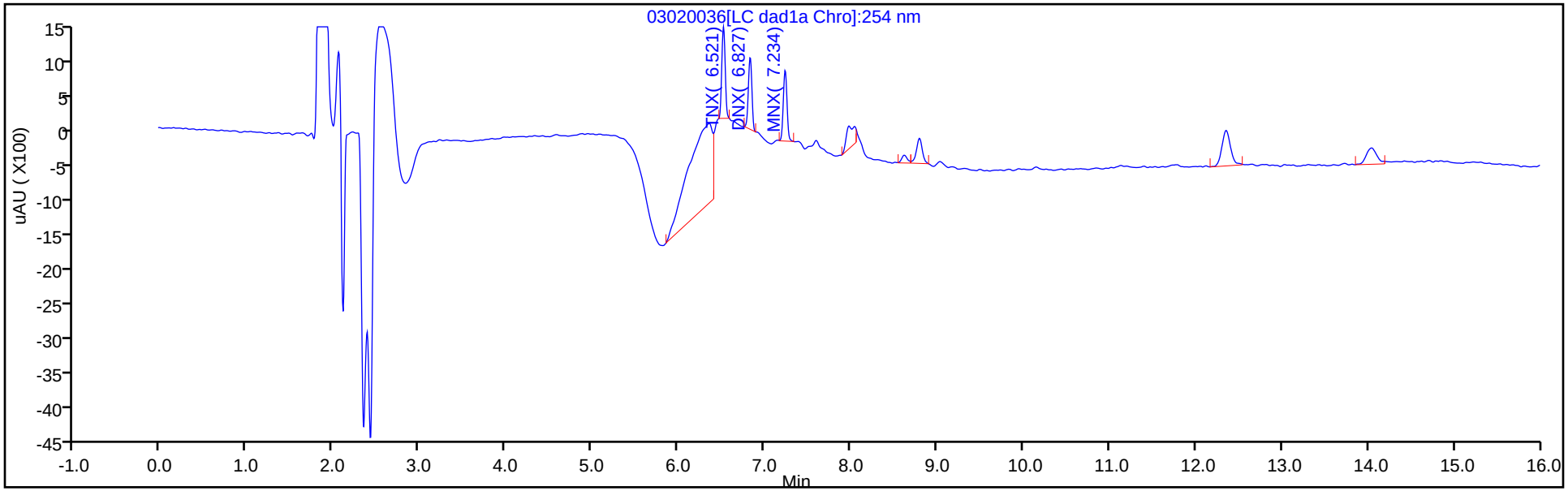
8330 DMT_00008 Amount Added: 1.00 Units: uL

Report Date: 03-Mar-2021 13:32:31 Chrom Revision: 2.3 05-Feb-2021 00:13:28

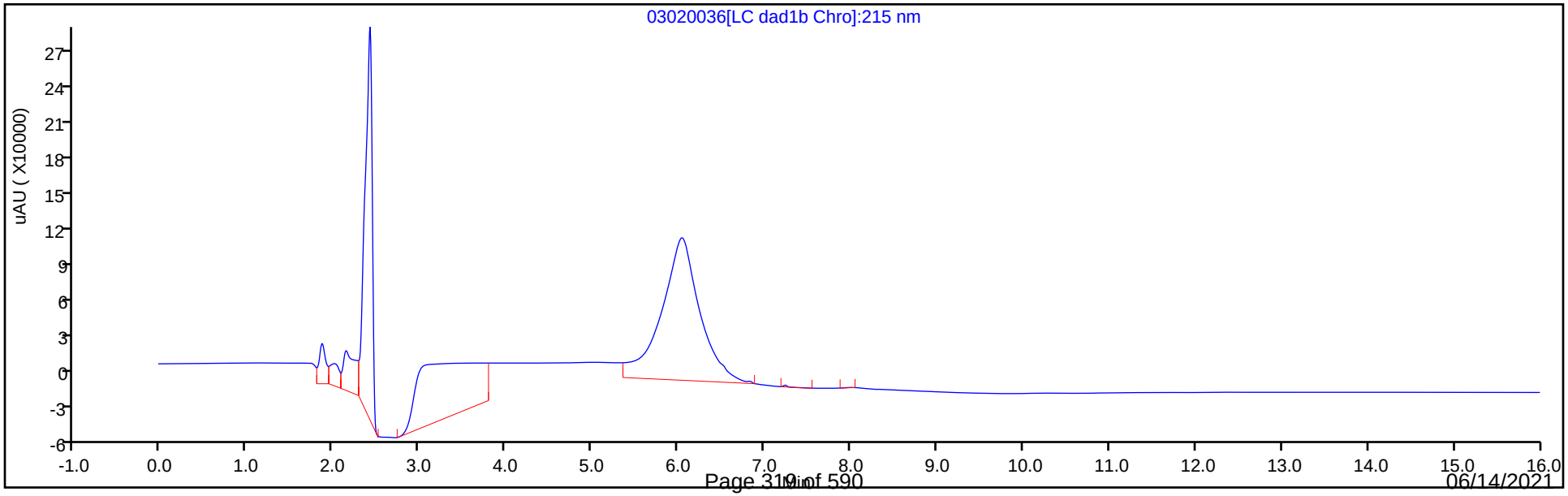
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020036.d				
Injection Date:	03-Mar-2021 02:30:22	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	IC DMT 1			Worklist Smp#:	36
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

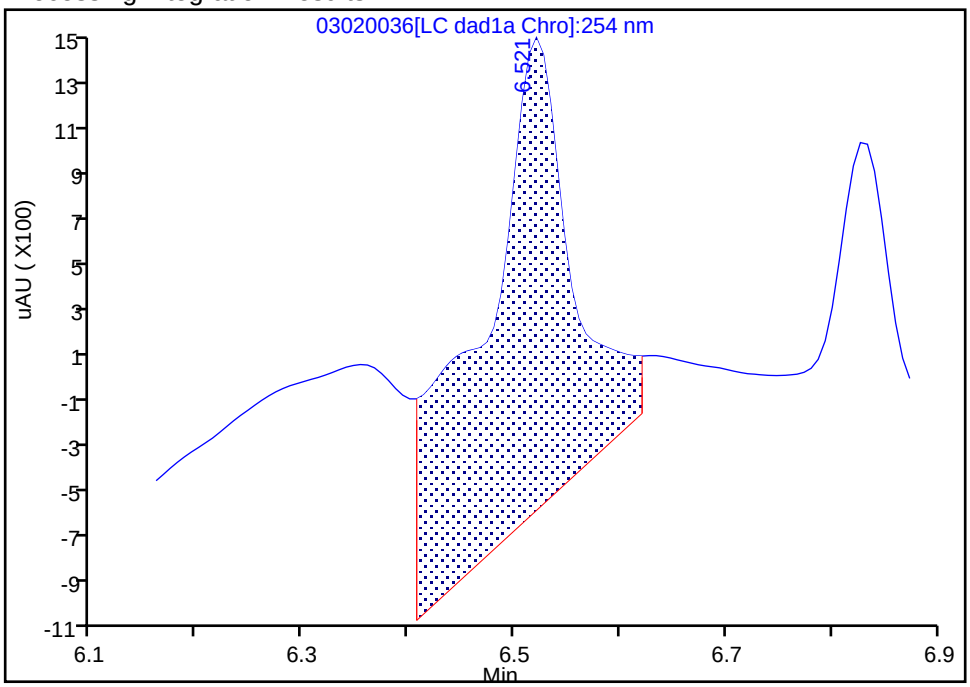
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020036.d				
Injection Date:	03-Mar-2021 02:30:22	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 1				
Client ID:					
Operator ID:		ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

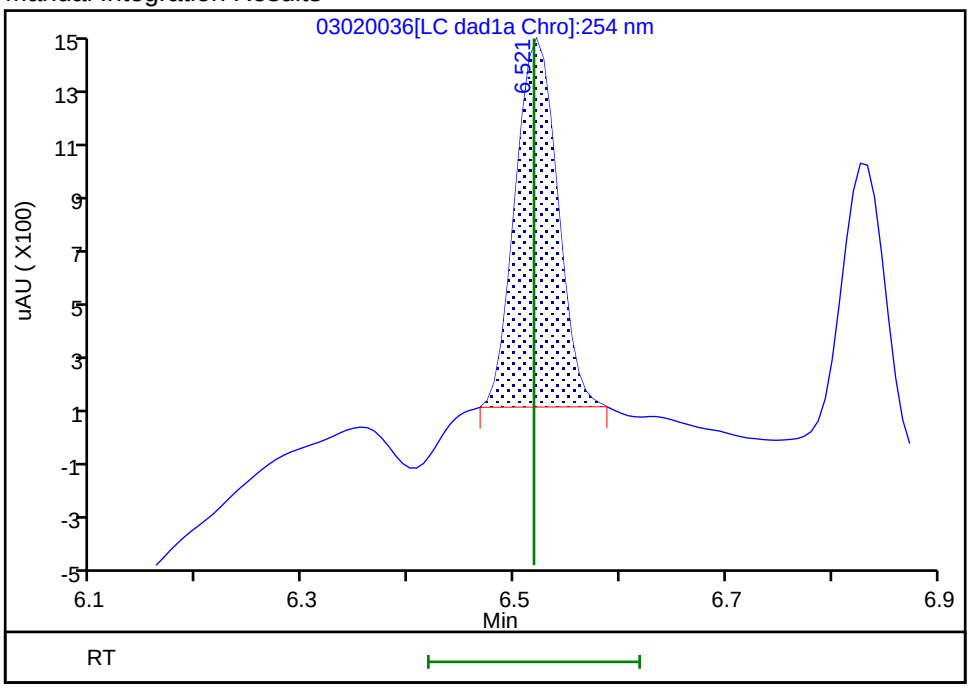
Processing Integration Results

RT: 6.52
Area: 12511
Amount: 0.051903
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 3664
Amount: 0.019719
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

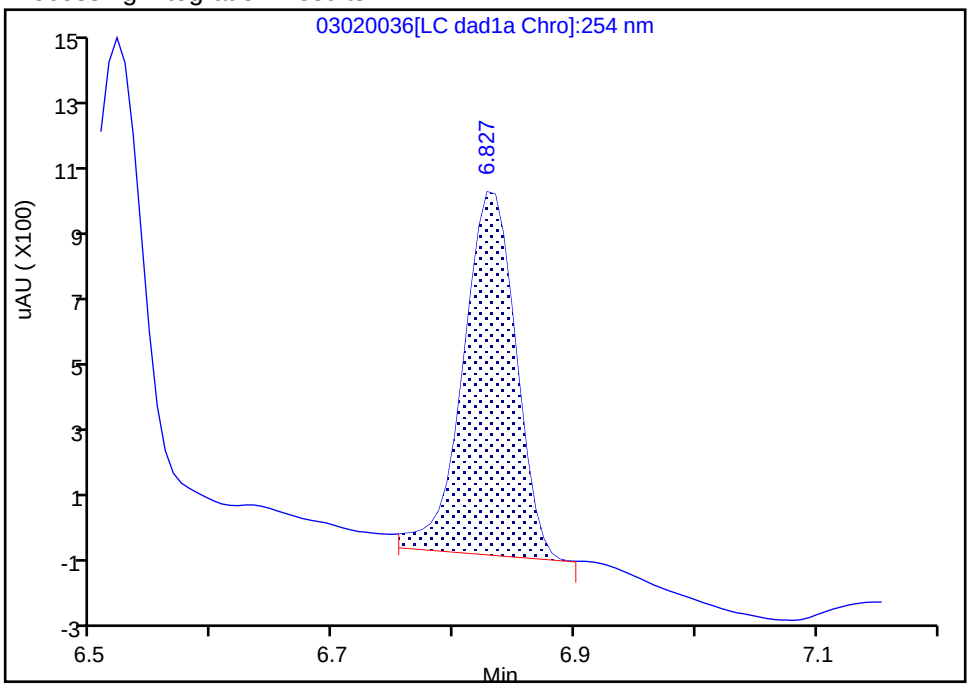
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020036.d				
Injection Date:	03-Mar-2021 02:30:22	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 1				
Client ID:					
Operator ID:		ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

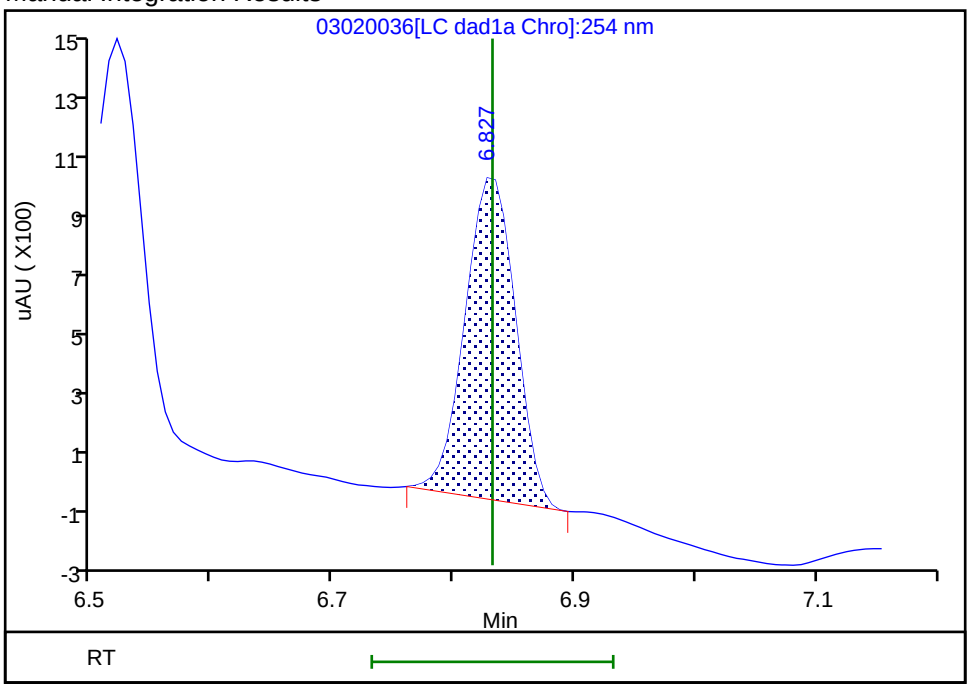
Processing Integration Results

RT: 6.83
Area: 3182
Amount: 0.022197
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 2984
Amount: 0.020996
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:20:57
Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / TNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

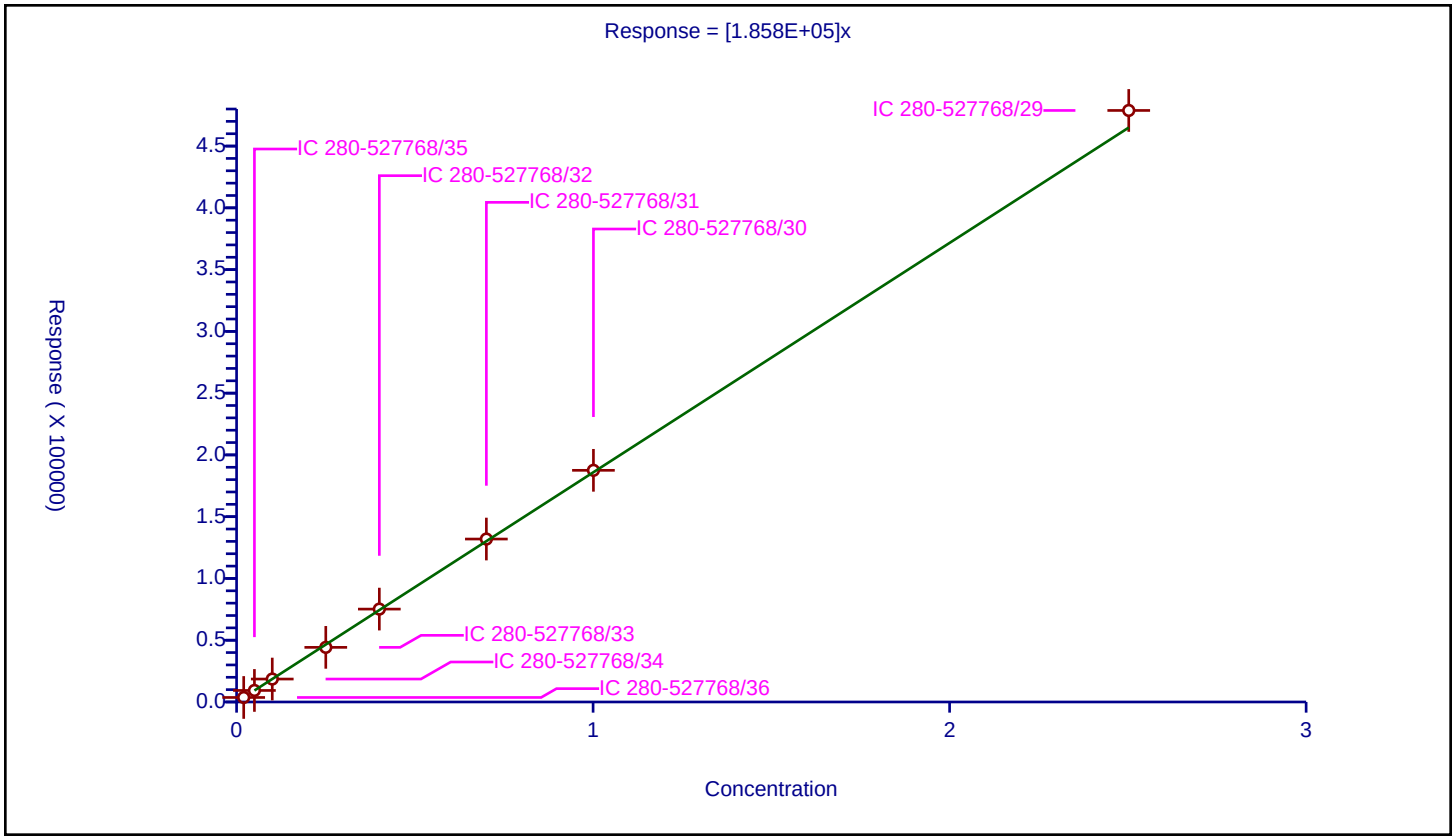
Curve Coefficients

Intercept:	0
Slope:	1.858E+05

Error Coefficients

Standard Error:	5380
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-527768/36	0.02002	3664.0			183016.983017	Y
2	IC 280-527768/35	0.05005	9328.0			186373.626374	Y
3	IC 280-527768/34	0.1001	18578.0			185594.405594	Y
4	IC 280-527768/33	0.25025	44228.0			176735.264735	Y
5	IC 280-527768/32	0.4004	75195.0			187799.7003	Y
6	IC 280-527768/31	0.7007	131907.0			188250.321107	Y
7	IC 280-527768/30	1.001	187526.0			187338.661339	Y
8	IC 280-527768/29	2.5025	478826.0			191339.060939	Y



Calibration / DNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

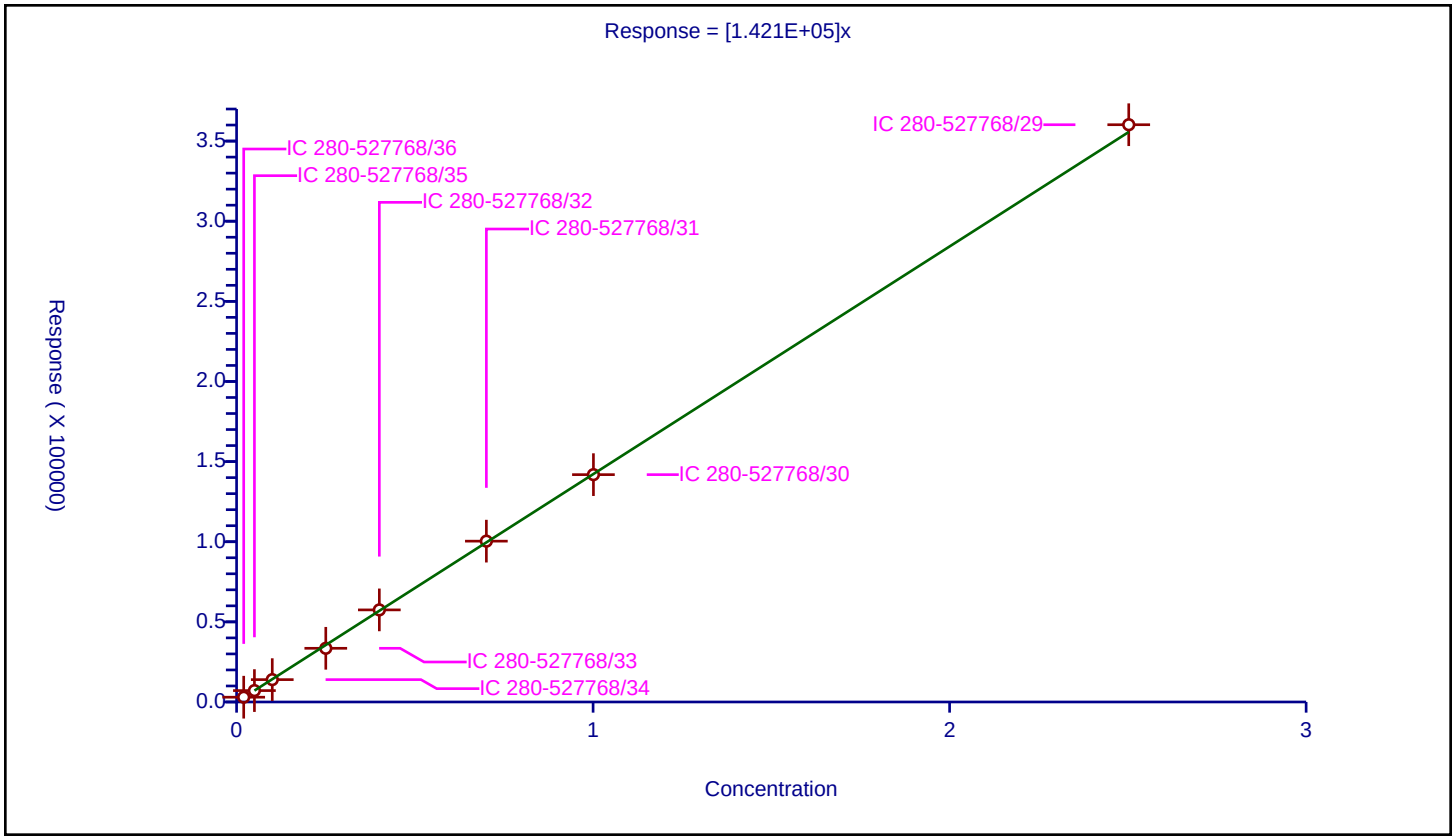
Curve Coefficients

Intercept:	0
Slope:	1.421E+05

Error Coefficients

Standard Error:	1930
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-527768/36	0.02002	2984.0			149050.949051	Y
2	IC 280-527768/35	0.05005	7121.0			142277.722278	Y
3	IC 280-527768/34	0.1001	13949.0			139350.649351	Y
4	IC 280-527768/33	0.25025	33502.0			133874.125874	Y
5	IC 280-527768/32	0.4004	57462.0			143511.488511	Y
6	IC 280-527768/31	0.7007	100368.0			143239.617525	Y
7	IC 280-527768/30	1.001	141853.0			141711.288711	Y
8	IC 280-527768/29	2.5025	360207.0			143938.861139	Y



Calibration / MNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

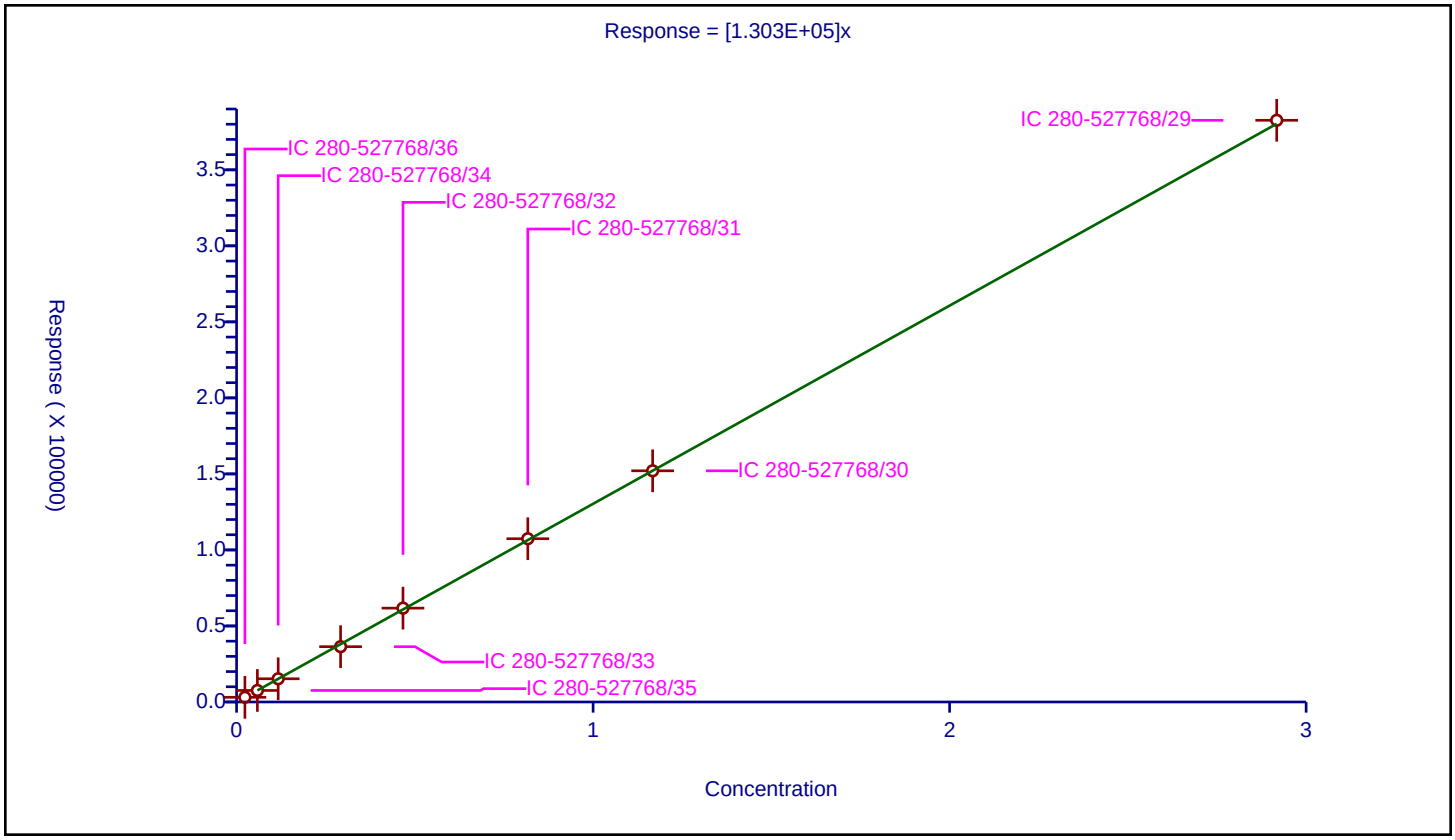
Curve Coefficients

Intercept:	0
Slope:	1.303E+05

Error Coefficients

Standard Error:	1180
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-527768/36	0.02334	3082.0			132047.98629	Y
2	IC 280-527768/35	0.05835	7585.0			129991.43102	Y
3	IC 280-527768/34	0.1167	15275.0			130891.17395	Y
4	IC 280-527768/33	0.29175	36376.0			124682.090831	Y
5	IC 280-527768/32	0.4668	61731.0			132242.930591	Y
6	IC 280-527768/31	0.8169	107376.0			131443.261109	Y
7	IC 280-527768/30	1.167	152050.0			130291.34533	Y
8	IC 280-527768/29	2.9175	382579.0			131132.476435	Y



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534622

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:01 Calibration End Date: 05/01/2021 21:04 Calibration ID: 53145

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534622/19	019-1301.D
Level 2	IC 280-534622/18	018-1201.D
Level 3	IC 280-534622/17	017-1101.D
Level 4	IC 280-534622/16	016-1001.D
Level 5	IC 280-534622/15	015-0901.D
Level 6	IC 280-534622/14	014-0801.D
Level 7	IC 280-534622/13	013-0701.D
Level 8	IC 280-534622/12	012-0601.D
Level 9	IC 280-534622/11	011-0501.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
HMX	6.629	6.626	6.628	6.631	6.631	6.627	6.631	6.626	6.626		6.481 - 6.781	6.628
RDX	+++++	7.606	7.602	7.598	7.597	7.601	7.604	7.593	7.592		7.448 - 7.748	7.599
Picric acid	+++++	7.966	7.968	7.958	7.951	7.947	7.937	7.920	7.879		7.808 - 8.108	7.941
1,3,5-Trinitrobenzene	8.649	8.653	8.655	8.651	8.651	8.654	8.651	8.646	8.646		8.501 - 8.801	8.651
1,3-Dinitrobenzene	9.275	9.280	9.282	9.278	9.271	9.281	9.277	9.273	9.265		9.128 - 9.428	9.276
Nitrobenzene	9.662	9.666	9.662	9.664	9.657	9.667	9.664	9.659	9.652		9.514 - 9.814	9.661
Tetryl	9.975	9.980	9.982	9.978	9.977	9.981	9.977	9.973	9.972		9.828 - 10.128	9.977
Nitroglycerin	10.435	10.440	10.442	10.438	10.437	10.441	10.437	10.433	10.425		10.288 - 10.588	10.436
2,4,6-Trinitrotoluene	10.902	10.906	10.908	10.904	10.904	10.907	10.904	10.899	10.899		10.804 - 11.004	10.904
4-Amino-2,6-dinitrotoluene	11.109	11.106	11.115	11.111	11.104	11.114	11.104	11.099	11.099		11.011 - 11.211	11.107
2-Amino-4,6-dinitrotoluene	11.369	11.366	11.375	11.371	11.364	11.374	11.364	11.359	11.352		11.271 - 11.471	11.366
2,6-Dinitrotoluene	11.529	11.533	11.535	11.531	11.531	11.541	11.531	11.526	11.519		11.431 - 11.631	11.531
2,4-Dinitrotoluene	11.702	11.706	11.708	11.704	11.704	11.714	11.704	11.699	11.692		11.604 - 11.804	11.704
2-Nitrotoluene	12.575	12.573	12.575	12.578	12.571	12.581	12.571	12.566	12.565		12.428 - 12.728	12.573
4-Nitrotoluene	13.015	13.006	13.015	13.011	13.011	13.021	13.011	13.006	12.999		12.861 - 13.161	13.011
3-Nitrotoluene	13.602	13.600	13.602	13.604	13.597	13.607	13.597	13.593	13.592		13.454 - 13.754	13.599
PETN	14.682	14.680	14.688	14.684	14.684	14.694	14.684	14.679	14.679		14.534 - 14.834	14.684
1,2-Dinitrobenzene	8.522	8.526	8.522	8.525	8.517	8.527	8.524	8.520	8.512		8.375 - 8.675	8.522

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534622

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:01 Calibration End Date: 05/01/2021 21:04 Calibration ID: 53145

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534622/19	019-1301.D
Level 2	IC 280-534622/18	018-1201.D
Level 3	IC 280-534622/17	017-1101.D
Level 4	IC 280-534622/16	016-1001.D
Level 5	IC 280-534622/15	015-0901.D
Level 6	IC 280-534622/14	014-0801.D
Level 7	IC 280-534622/13	013-0701.D
Level 8	IC 280-534622/12	012-0601.D
Level 9	IC 280-534622/11	011-0501.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	90600 81044 83266	84000 83153	84840 83381	85610 83899	Ave		84421.436 5				3.1		20.0			
RDX	+++++ 100772 100392	110350 101975	121080 101457	112450 101616	Ave		106261.46 8				7.1		20.0			
Picric acid	+++++ 78100 78816	92000 79550	91500 79403	83170 79230	Ave		82721.107 1				7.0		20.0			
1,3,5-Trinitrobenzene	247605 211904 216811	201497 217647	226766 220329	220699 219598	Ave		220317.35 4				5.6		20.0			
1,3-Dinitrobenzene	304591 284922 294659	300349 293466	297944 294726	300389 295917	Ave		296329.29 9				1.9		20.0			
Nitrobenzene	198705 187737 194447	197809 193367	197052 194434	199980 194044	Ave		195285.94 8				1.9		20.0			
Tetryl	170858 167980 172330	166218 172575	177046 172692	178842 173240	Ave		172419.99 8				2.3		20.0			
Nitroglycerin	107780 65334 64661	80810 65580	73966 62107	71053 65275	Lin2	4204.1302 6	64107.750 8							0.9980		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534622

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:01 Calibration End Date: 05/01/2021 21:04 Calibration ID: 53145

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4,6-Trinitrotoluene	211952 197876 204255	206972 203262	209442 203674	212012 204895	Ave		206037.868				2.2		20.0			
4-Amino-2,6-dinitrotoluene	159441 143209 145339	176424 145884	157203 145937	154895 146581	Ave		152767.994				7.0		20.0			
2-Amino-4,6-dinitrotoluene	211753 195992 200761	220767 202107	214920 201639	211185 203212	Ave		206926.219				3.9		20.0			
2,6-Dinitrotoluene	139841 139335 142809	146763 140697	146614 143092	144990 143569	Ave		143078.761				1.9		20.0			
2,4-Dinitrotoluene	293227 274622 284165	296066 283989	291773 282943	292450 283876	Ave		287012.272				2.4		20.0			
2-Nitrotoluene	134600 121368 124876	136850 124703	132320 124706	131380 124724	Ave		128391.846				4.2		20.0			
4-Nitrotoluene	117465 104032 107464	131387 107423	114251 107231	110609 107352	Ave		111912.732				7.5		20.0			
3-Nitrotoluene	157343 133626 137530	155894 136853	143596 136770	141648 136955	Ave		142246.281				6.1		20.0			
PETN	79010 71928 73997	74720 74156	74586 74227	75747 74637	Ave		74778.5667				2.5		20.0			
1,2-Dinitrobenzene	119500 126156 131759	119950 130943	130080 131307	132180 132080	Ave		128217.205				4.0		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534622

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:01 Calibration End Date: 05/01/2021 21:04 Calibration ID: 53145

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534622/19	019-1301.D
Level 2	IC 280-534622/18	018-1201.D
Level 3	IC 280-534622/17	017-1101.D
Level 4	IC 280-534622/16	016-1001.D
Level 5	IC 280-534622/15	015-0901.D
Level 6	IC 280-534622/14	014-0801.D
Level 7	IC 280-534622/13	013-0701.D
Level 8	IC 280-534622/12	012-0601.D
Level 9	IC 280-534622/11	011-0501.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HMX	Ave	906 33261	1680 58367	4242 83899	8561 208165	20261	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	+++++ 40790	2207 71020	6054 101616	11245 250979	25193	+++++ 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	+++++ 31820	1840 55582	4575 79230	8317 197040	19525	+++++ 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3,5-Trinitrobenzene	Ave	2481 87233	4038 154539	11361 220037	22114 543111	53082	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Ave	3052 117621	6019 206721	14927 296509	30099 738121	71373	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
Nitrobenzene	Ave	1995 77656	3972 136648	9892 194820	20078 488061	47122	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
Tetryl	Ave	1712 69168	3331 121126	8870 173586	17920 431686	42079	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Lin2	10778 262320	16162 434747	36983 652752	71053 1616536	163334	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
2,4,6-Trinitrotoluene	Ave	2128 81630	4156 143142	10514 205715	21286 512679	49667	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Ave	1596 58412	3532 102258	7868 146728	15505 363710	35838	0.0100 0.400	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	2126 81166	4433 141712	10789 204025	21203 503909	49194	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Ave	1404 56504	2947 100565	7360 144143	14557 358451	34973	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
2,4-Dinitrotoluene	Ave	2944	5945	14647	29362	68930	0.0100	0.0201	0.0502	0.100	0.251

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534622

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:01 Calibration End Date: 05/01/2021 21:04 Calibration ID: 53145

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
		114050	198852	285012	713254		0.402	0.703	1.00	2.51	
2-Nitrotoluene	Ave	1346 49881	2737 87294	6616 124724	13138 312191	30342	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Ave	1177 43055	2633 75212	5724 107567	11083 269197	26060	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
3-Nitrotoluene	Ave	1575 54796	3121 95835	7187 137092	14179 344169	33440	0.0100 0.400	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250
PETN	Ave	7901 296622	14944 519589	37293 746366	75747 1849935	179819	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Ave	1195 52377	2399 91915	6504 132080	13218 329398	31539	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend
Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\011-0501.D
Lims ID: IC INT 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 01-May-2021 18:01:04 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 9
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:06 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:15:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.626	6.631	-0.005	208165	2.50	2.47	M
7 RDX	1	7.592	7.598	-0.006	250979	2.50	2.36	
8 2,4,6-Trinitrophenol	1	7.879	7.958	-0.079	197040	2.50	2.38	
$ 9 1,2-Dinitrobenzene	1	8.512	8.525	-0.013	329398	2.50	2.57	
10 1,3,5-Trinitrobenzene	1	8.646	8.651	-0.005	543111	2.51	2.47	
11 1,3-Dinitrobenzene	1	9.265	9.278	-0.013	738121	2.51	2.49	
12 Nitrobenzene	1	9.652	9.664	-0.012	488061	2.51	2.50	
14 Tetryl	1	9.972	9.978	-0.006	431686	2.51	2.50	
15 Nitroglycerin	2	10.425	10.438	-0.013	1616536	25.0	25.2	
16 2,4,6-Trinitrotoluene	1	10.899	10.904	-0.005	512679	2.51	2.49	
17 4-Amino-2,6-dinitrotoluene	1	11.099	11.111	-0.012	363710	2.50	2.38	
18 2-Amino-4,6-dinitrotoluene	1	11.352	11.371	-0.019	503909	2.51	2.44	
19 2,6-Dinitrotoluene	1	11.519	11.531	-0.012	358451	2.51	2.51	
20 2,4-Dinitrotoluene	1	11.692	11.704	-0.012	713254	2.51	2.49	
21 o-Nitrotoluene	1	12.565	12.578	-0.013	312191	2.50	2.43	
22 p-Nitrotoluene	1	12.999	13.011	-0.012	269197	2.51	2.41	
23 m-Nitrotoluene	1	13.592	13.604	-0.012	344169	2.50	2.42	
24 PETN	2	14.679	14.684	-0.005	1849935	25.0	24.7	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

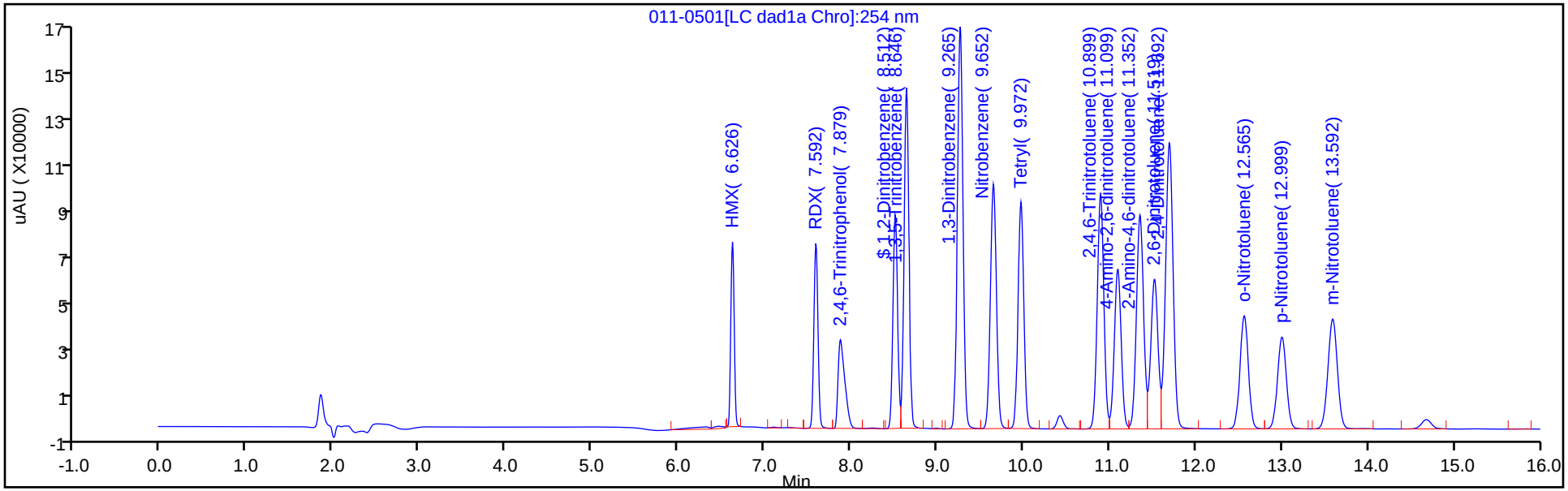
8330IntermStk_00067 Amount Added: 250.00 Units: uL

Report Date: 04-May-2021 13:25:06 Chrom Revision: 2.3 08-Apr-2021 17:17:48

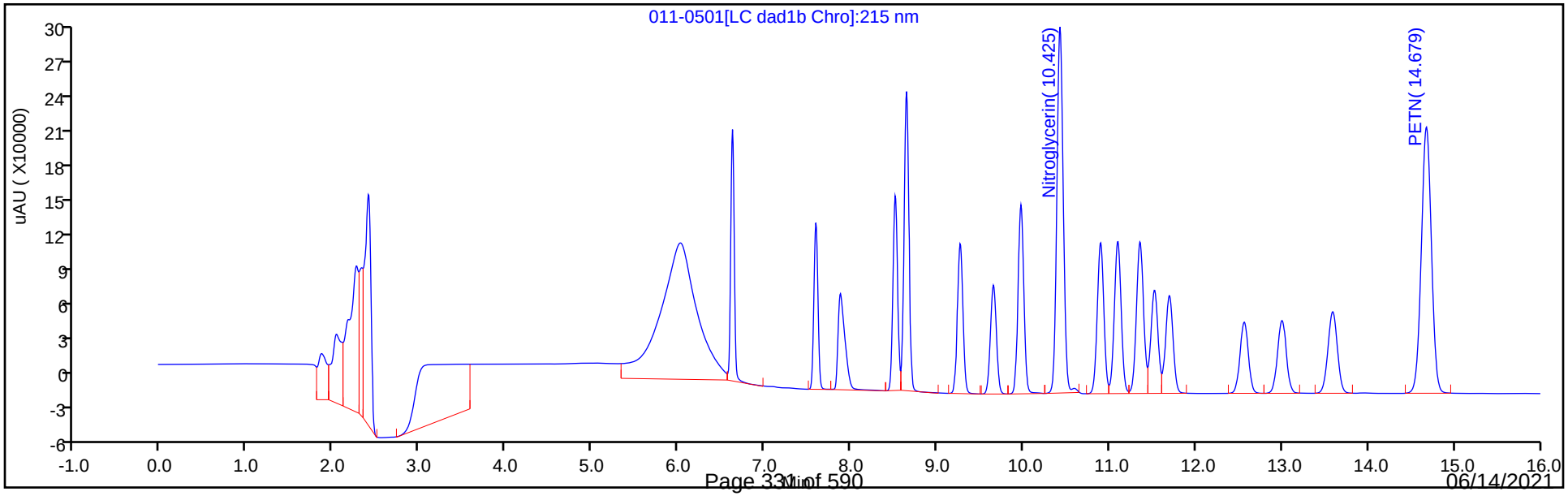
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\011-0501.d				
Injection Date:	01-May-2021 18:01:04	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 9			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

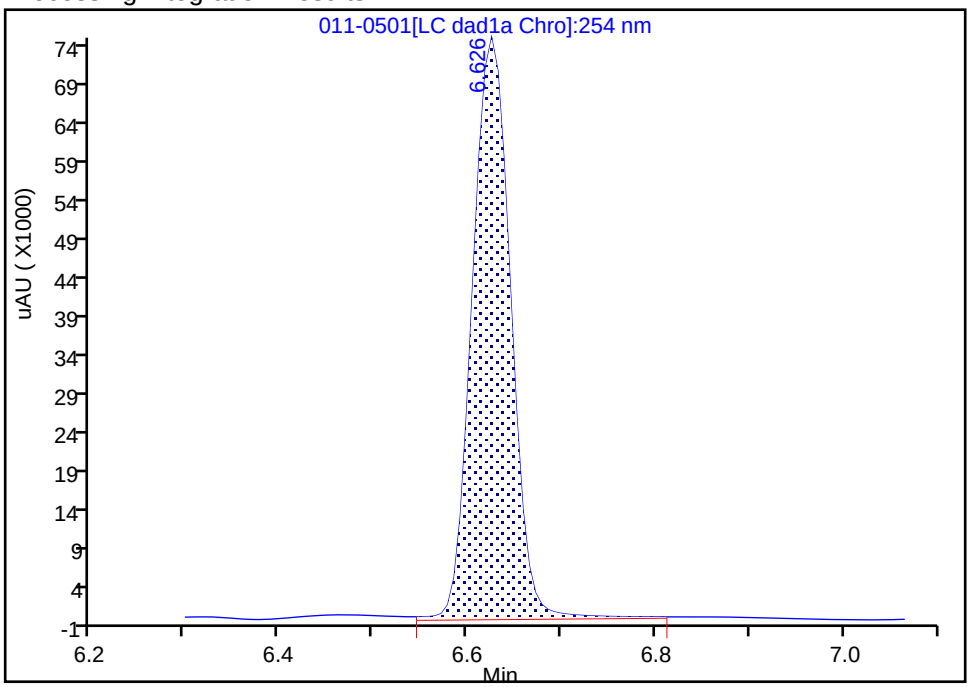
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\011-0501.d				
Injection Date:	01-May-2021 18:01:04	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

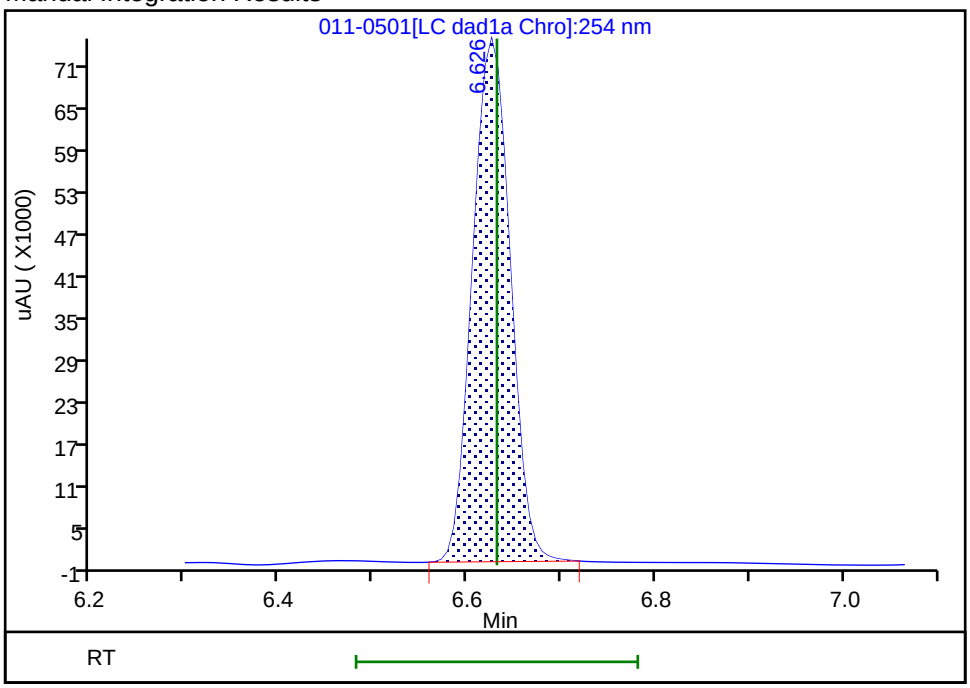
Processing Integration Results

RT: 6.63
Area: 214677
Amount: 2.481723
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 208165
Amount: 2.465784
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:15:42

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\012-0601.D
Lims ID: IC INT 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 01-May-2021 18:23:59 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 8
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:07 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:16:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.626	6.631	-0.005	83899	1.00	0.99	M
7 RDX	1	7.593	7.598	-0.005	101616	1.00	0.9563	
8 2,4,6-Trinitrophenol	1	7.920	7.958	-0.038	79230	1.00	0.9578	
$ 9 1,2-Dinitrobenzene	1	8.520	8.525	-0.005	132080	1.00	1.03	
10 1,3,5-Trinitrobenzene	1	8.646	8.651	-0.005	220037	1.00	1.00	
11 1,3-Dinitrobenzene	1	9.273	9.278	-0.005	296509	1.00	1.00	
12 Nitrobenzene	1	9.659	9.664	-0.005	194820	1.00	1.00	
14 Tetryl	1	9.973	9.978	-0.005	173586	1.00	1.01	
15 Nitroglycerin	2	10.433	10.438	-0.005	652752	10.0	10.1	
16 2,4,6-Trinitrotoluene	1	10.899	10.904	-0.005	205715	1.00	1.00	
17 4-Amino-2,6-dinitrotoluene	1	11.099	11.111	-0.012	146728	1.00	0.9605	
18 2-Amino-4,6-dinitrotoluene	1	11.359	11.371	-0.012	204025	1.00	0.9860	
19 2,6-Dinitrotoluene	1	11.526	11.531	-0.005	144143	1.00	1.01	
20 2,4-Dinitrotoluene	1	11.699	11.704	-0.005	285012	1.00	0.99	
21 o-Nitrotoluene	1	12.566	12.578	-0.012	124724	1.00	0.9714	
22 p-Nitrotoluene	1	13.006	13.011	-0.005	107567	1.00	0.9612	
23 m-Nitrotoluene	1	13.593	13.604	-0.011	137092	1.00	0.9638	
24 PETN	2	14.679	14.684	-0.005	746366	10.0	9.98	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

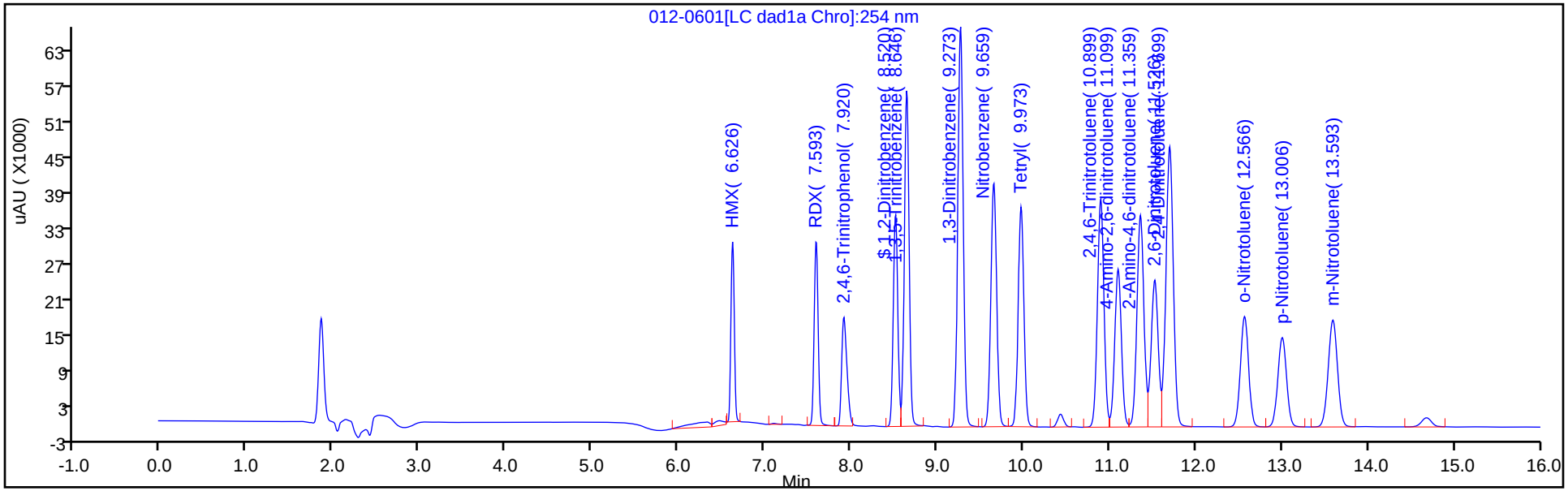
8330IntermStk_00067 Amount Added: 100.00 Units: uL

Report Date: 04-May-2021 13:25:07 Chrom Revision: 2.3 08-Apr-2021 17:17:48

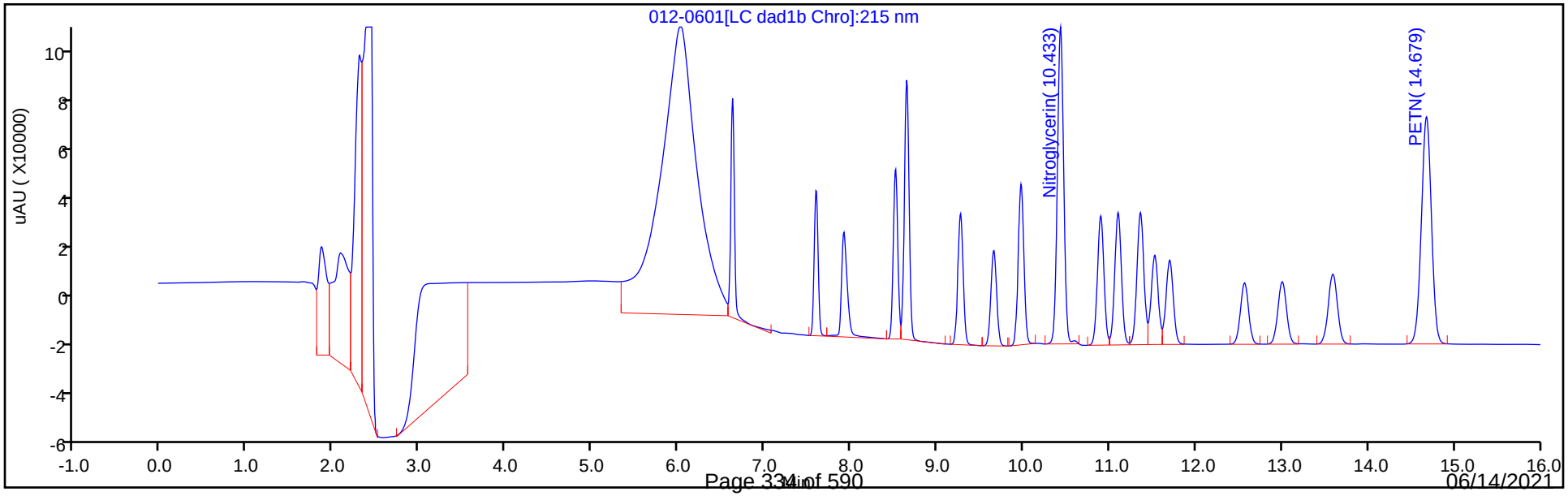
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\012-0601.d				
Injection Date:	01-May-2021 18:23:59	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 8			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

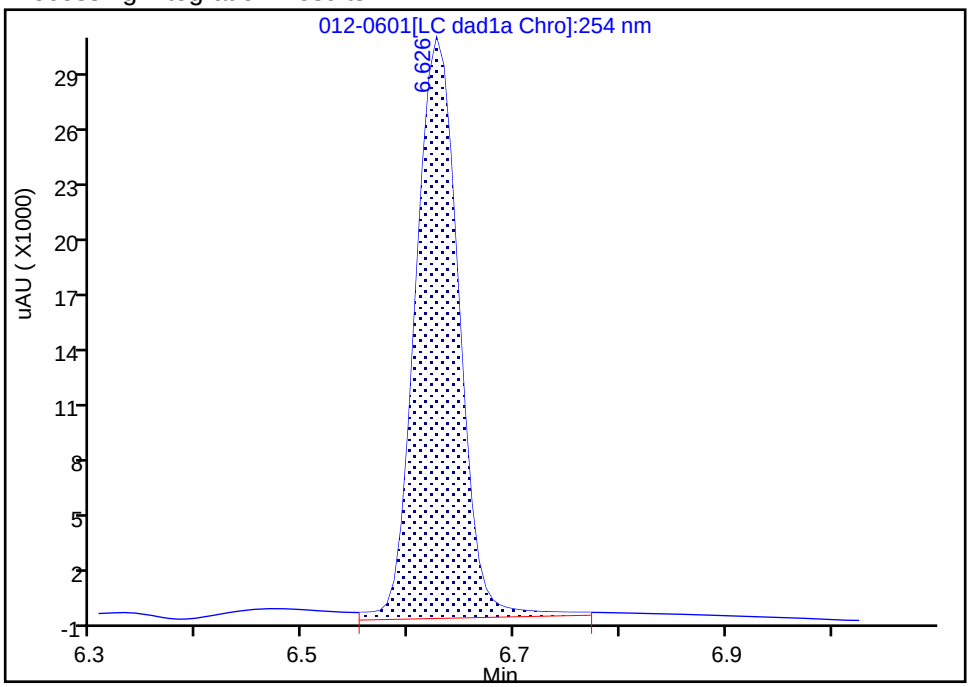
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\012-0601.d				
Injection Date:	01-May-2021 18:23:59	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 8				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

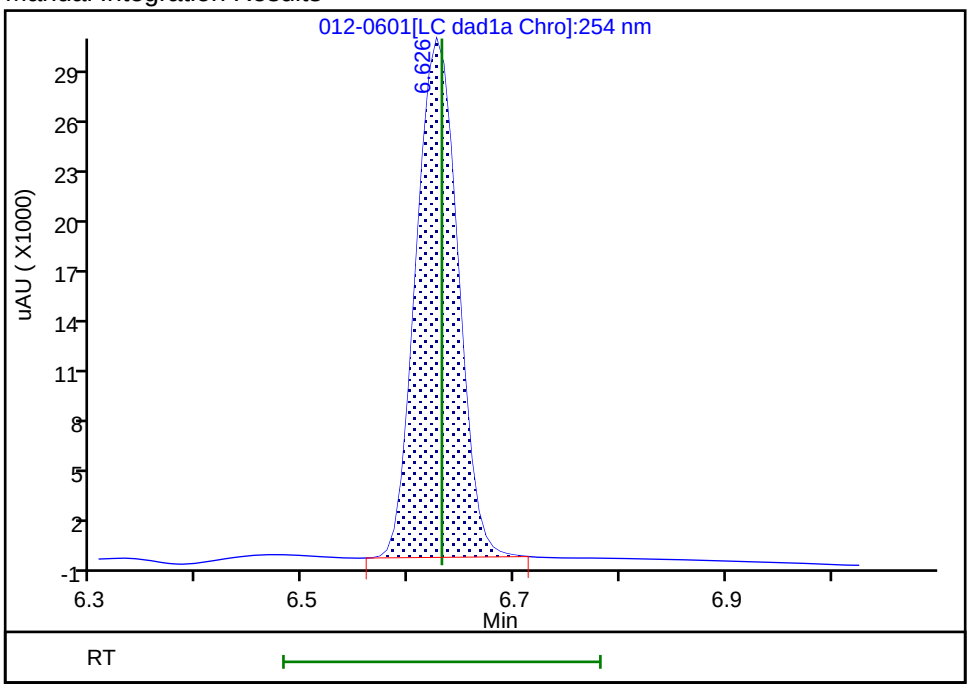
Processing Integration Results

RT: 6.63
Area: 88052
Amount: 1.025258
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 83899
Amount: 0.993812
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:15:59
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\013-0701.D
Lims ID: IC INT 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-May-2021 18:46:55 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 7
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:07 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:16:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.631	6.631	0.000	58367	0.7000	0.6914	M
7 RDX	1	7.604	7.598	0.006	71020	0.7000	0.6684	
8 2,4,6-Trinitrophenol	1	7.937	7.958	-0.021	55582	0.7000	0.6719	
$ 9 1,2-Dinitrobenzene	1	8.524	8.525	-0.001	91915	0.7000	0.7169	
10 1,3,5-Trinitrobenzene	1	8.651	8.651	0.000	154539	0.7014	0.7014	
11 1,3-Dinitrobenzene	1	9.277	9.278	-0.001	206721	0.7014	0.6976	
12 Nitrobenzene	1	9.664	9.664	0.000	136648	0.7028	0.6997	
14 Tetryl	1	9.977	9.978	-0.001	121126	0.7014	0.7025	
15 Nitroglycerin	2	10.437	10.438	-0.001	434747	7.00	6.72	
16 2,4,6-Trinitrotoluene	1	10.904	10.904	0.000	143142	0.7028	0.6947	
17 4-Amino-2,6-dinitrotoluene	1	11.104	11.111	-0.007	102258	0.7007	0.6694	
18 2-Amino-4,6-dinitrotoluene	1	11.364	11.371	-0.007	141712	0.7028	0.6848	
19 2,6-Dinitrotoluene	1	11.531	11.531	0.000	100565	0.7028	0.7029	
20 2,4-Dinitrotoluene	1	11.704	11.704	0.000	198852	0.7028	0.6928	
21 o-Nitrotoluene	1	12.571	12.578	-0.007	87294	0.7000	0.6799	
22 p-Nitrotoluene	1	13.011	13.011	0.000	75212	0.7014	0.6721	
23 m-Nitrotoluene	1	13.597	13.604	-0.007	95835	0.7007	0.6737	
24 PETN	2	14.684	14.684	0.000	519589	7.00	6.95	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

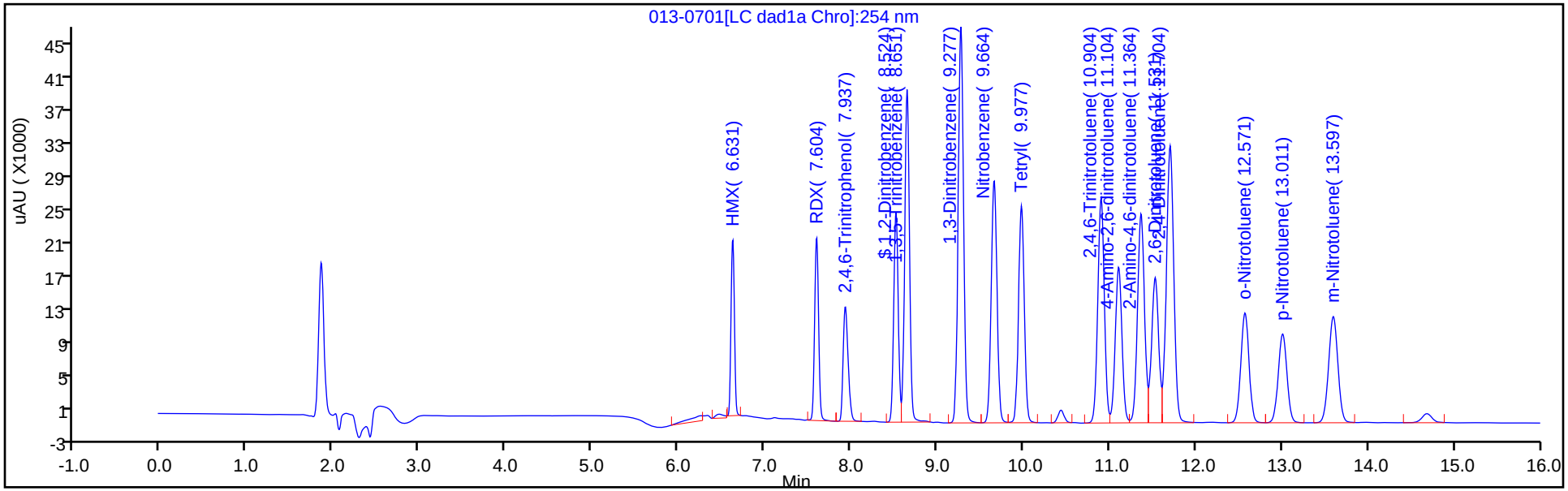
8330IntermStk_00067 Amount Added: 70.00 Units: uL

Report Date: 04-May-2021 13:25:07 Chrom Revision: 2.3 08-Apr-2021 17:17:48

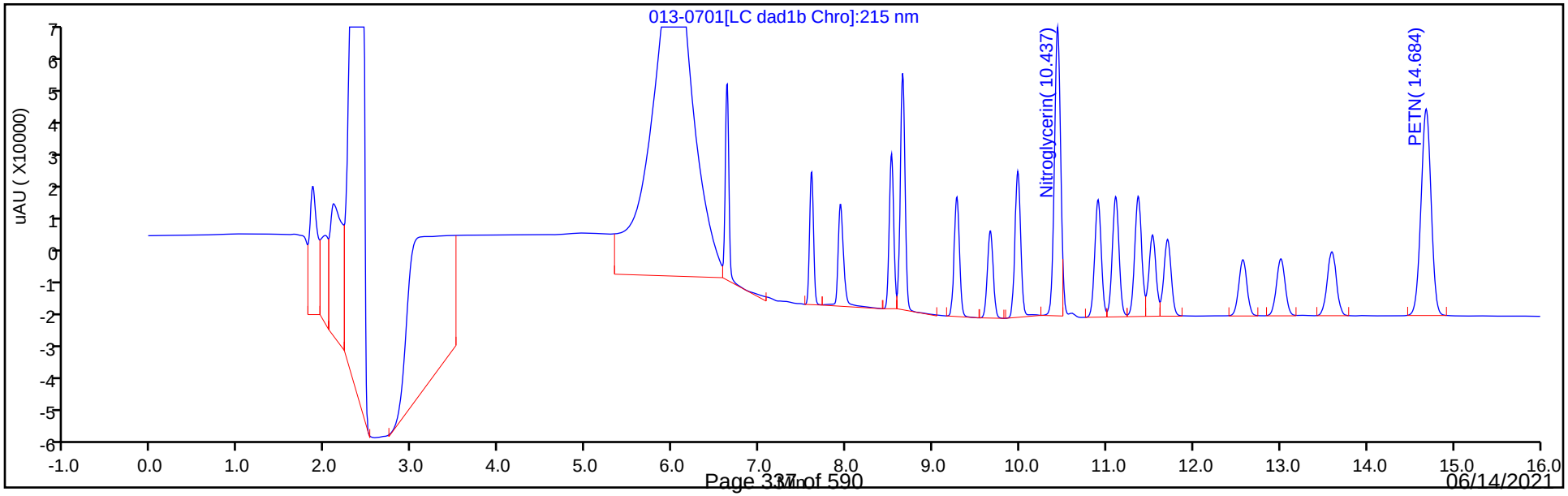
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\013-0701.d				
Injection Date:	01-May-2021 18:46:55	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 7			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

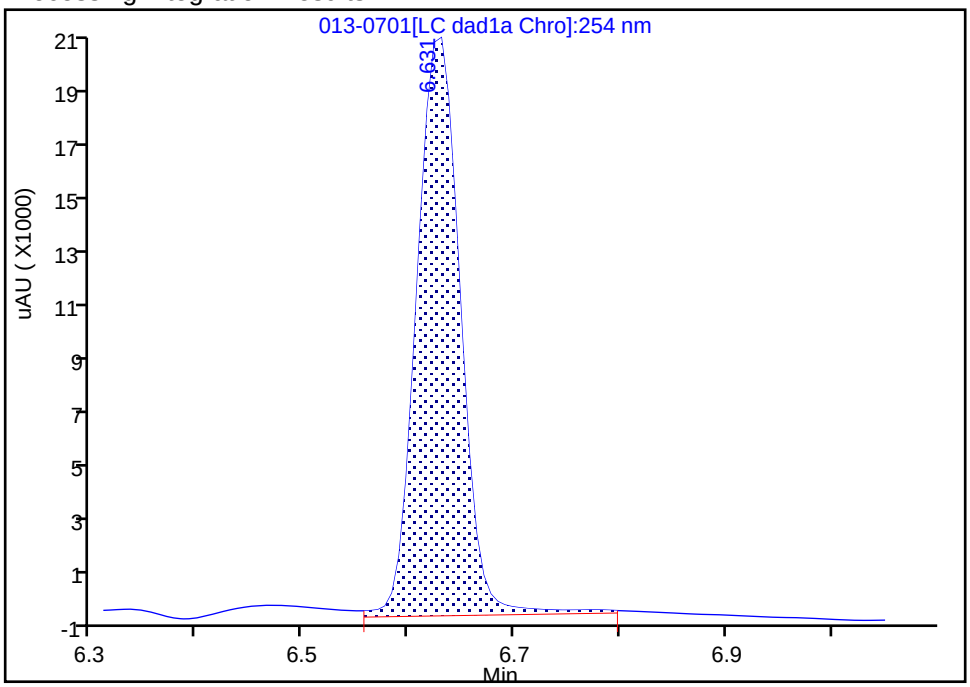
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\013-0701.d				
Injection Date:	01-May-2021 18:46:55	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 7				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

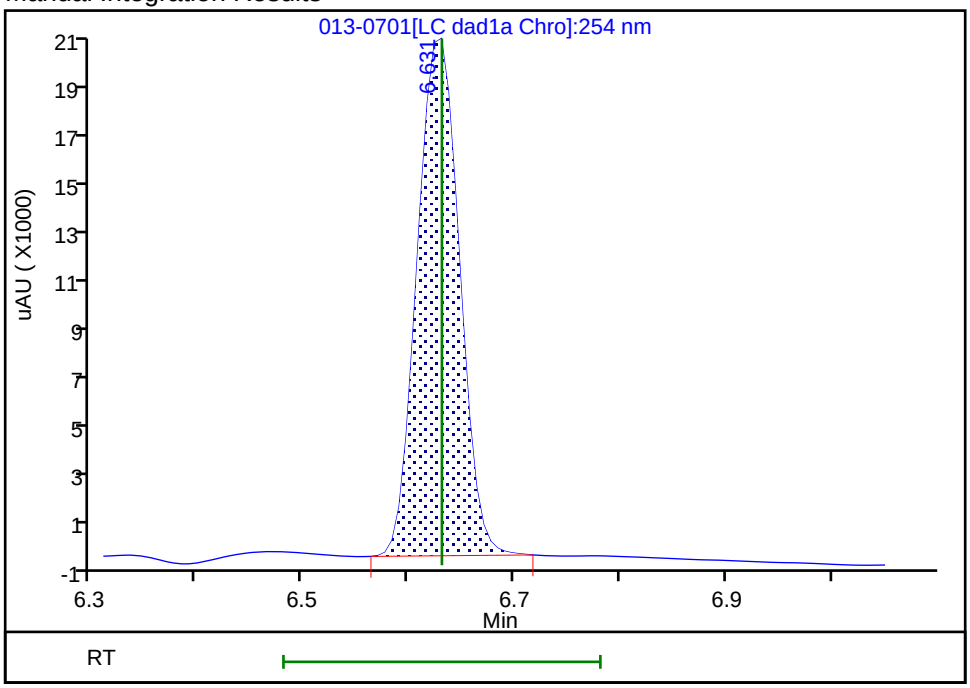
Processing Integration Results

RT: 6.63
Area: 61109
Amount: 0.713851
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 58367
Amount: 0.691377
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:16:10
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\014-0801.D
Lims ID: IC INT 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 01-May-2021 19:09:54 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 6
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:08 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:16:20

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.627	6.631	-0.004	33261	0.4000	0.3940	M
7 RDX	1	7.601	7.598	0.003	40790	0.4000	0.3839	
8 2,4,6-Trinitrophenol	1	7.947	7.958	-0.011	31820	0.4000	0.3847	
$ 9 1,2-Dinitrobenzene	1	8.527	8.525	0.002	52377	0.4000	0.4085	
10 1,3,5-Trinitrobenzene	1	8.654	8.651	0.003	87233	0.4008	0.3959	
11 1,3-Dinitrobenzene	1	9.281	9.278	0.003	117621	0.4008	0.3969	
12 Nitrobenzene	1	9.667	9.664	0.003	77656	0.4016	0.3977	
14 Tetryl	1	9.981	9.978	0.003	69168	0.4008	0.4012	
15 Nitroglycerin	2	10.441	10.438	0.003	262320	4.00	4.03	
16 2,4,6-Trinitrotoluene	1	10.907	10.904	0.003	81630	0.4016	0.3962	
17 4-Amino-2,6-dinitrotoluene	1	11.114	11.111	0.003	58412	0.4004	0.3824	
18 2-Amino-4,6-dinitrotoluene	1	11.374	11.371	0.003	81166	0.4016	0.3922	
19 2,6-Dinitrotoluene	1	11.541	11.531	0.010	56504	0.4016	0.3949	
20 2,4-Dinitrotoluene	1	11.714	11.704	0.010	114050	0.4016	0.3974	
21 o-Nitrotoluene	1	12.581	12.578	0.003	49881	0.4000	0.3885	
22 p-Nitrotoluene	1	13.021	13.011	0.010	43055	0.4008	0.3847	
23 m-Nitrotoluene	1	13.607	13.604	0.003	54796	0.4004	0.3852	
24 PETN	2	14.694	14.684	0.010	296622	4.00	3.97	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

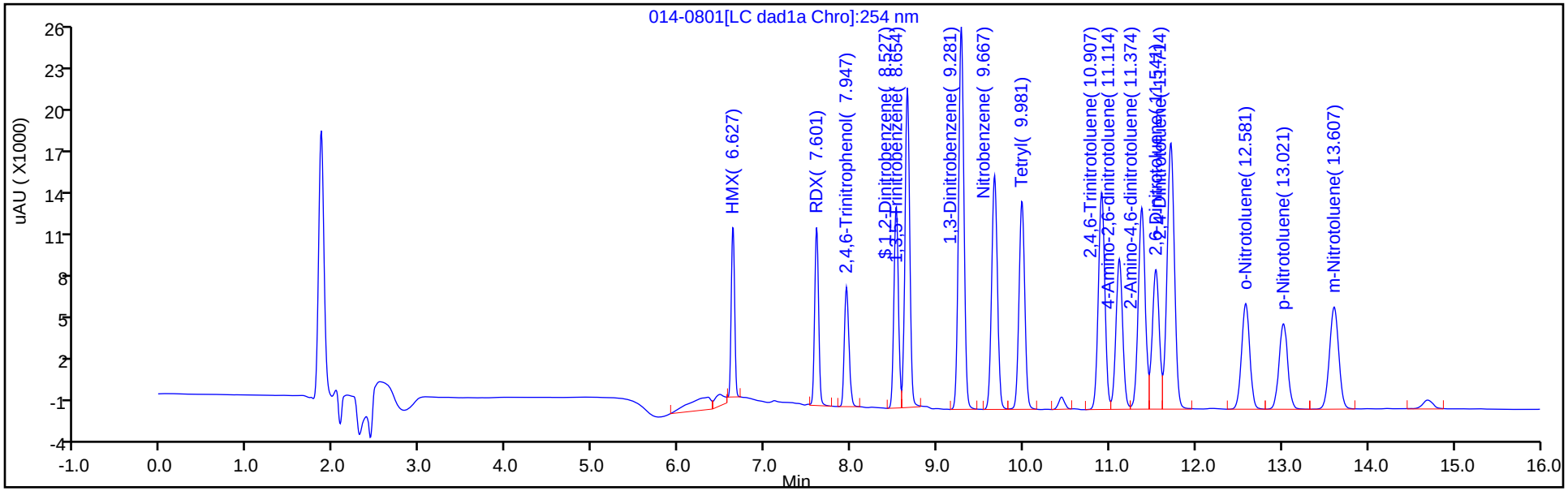
8330IntermStk_00067 Amount Added: 40.00 Units: uL

Report Date: 04-May-2021 13:25:08 Chrom Revision: 2.3 08-Apr-2021 17:17:48

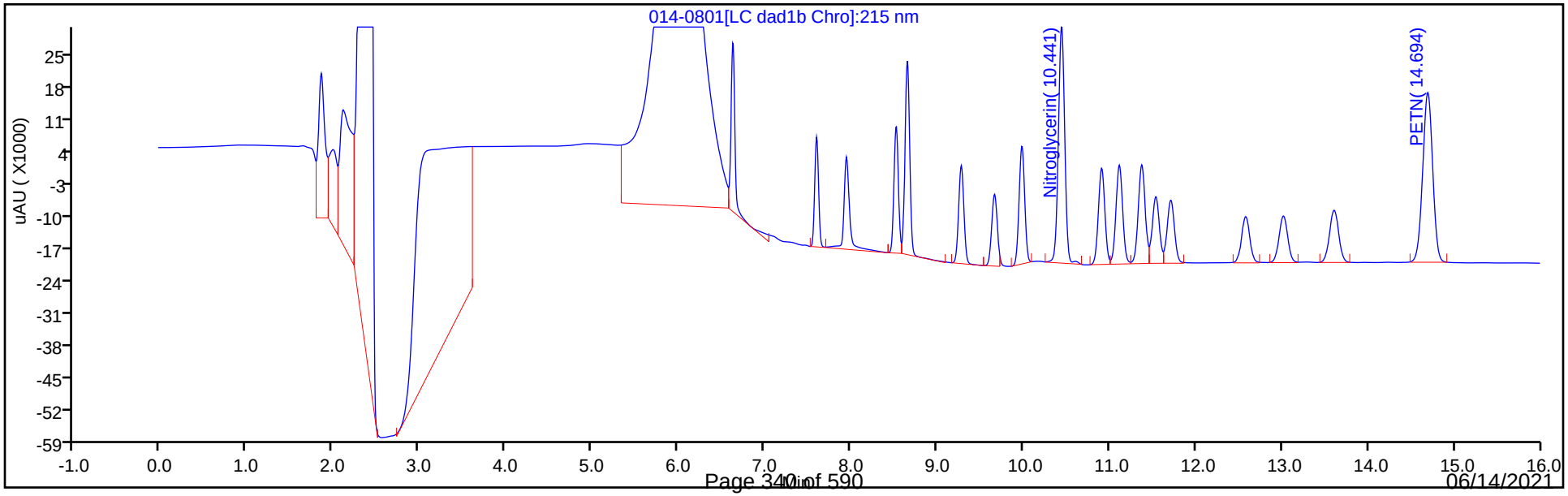
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\014-0801.d				
Injection Date:	01-May-2021 19:09:54	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 6			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

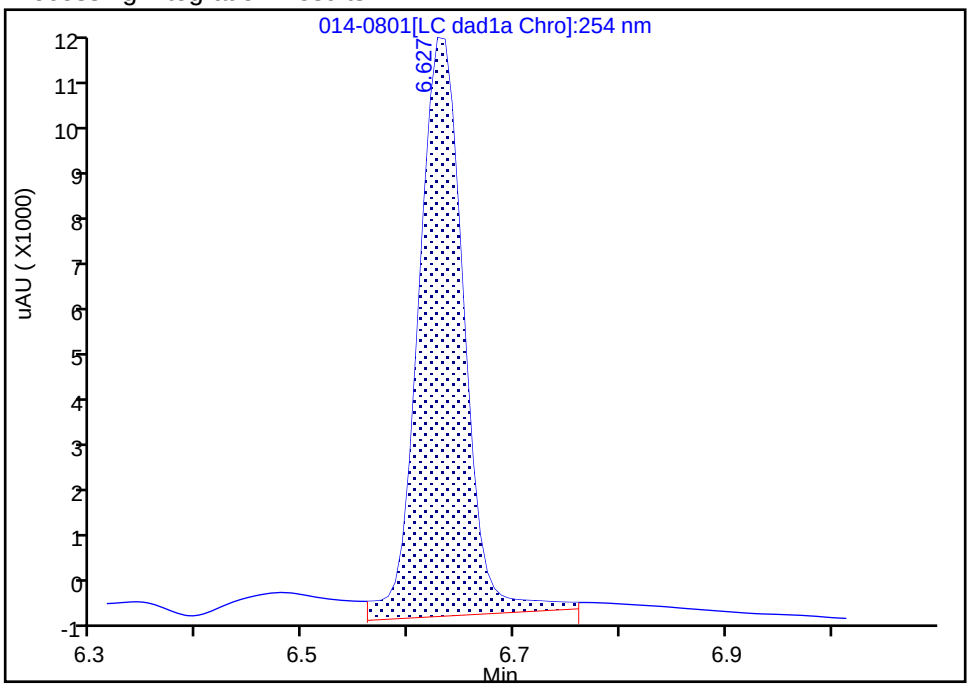
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\014-0801.d				
Injection Date:	01-May-2021 19:09:54	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 6				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

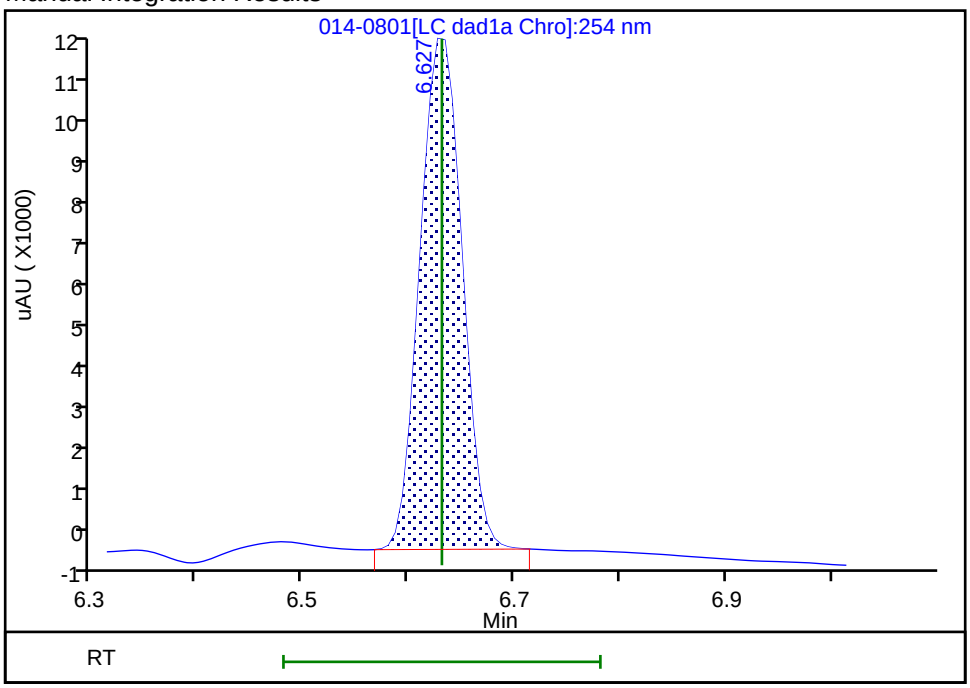
Processing Integration Results

RT: 6.63
Area: 36722
Amount: 0.425419
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 33261
Amount: 0.393988
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:16:17

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\015-0901.D
Lims ID: IC INT 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-May-2021 19:32:52 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 5
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:08 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:16:29

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.631	6.631	0.000	20261	0.2500	0.2400	M
7 RDX	1	7.597	7.598	-0.001	25193	0.2500	0.2371	
8 2,4,6-Trinitrophenol	1	7.951	7.958	-0.007	19525	0.2500	0.2360	
$ 9 1,2-Dinitrobenzene	1	8.517	8.525	-0.008	31539	0.2500	0.2460	
10 1,3,5-Trinitrobenzene	1	8.651	8.651	0.000	53082	0.2505	0.2409	
11 1,3-Dinitrobenzene	1	9.271	9.278	-0.007	71373	0.2505	0.2409	
12 Nitrobenzene	1	9.657	9.664	-0.007	47122	0.2510	0.2413	
14 Tetryl	1	9.977	9.978	-0.001	42079	0.2505	0.2440	
15 Nitroglycerin	2	10.437	10.438	-0.001	163334	2.50	2.48	
16 2,4,6-Trinitrotoluene	1	10.904	10.904	0.000	49667	0.2510	0.2411	
17 4-Amino-2,6-dinitrotoluene	1	11.104	11.111	-0.007	35838	0.2503	0.2346	
18 2-Amino-4,6-dinitrotoluene	1	11.364	11.371	-0.007	49194	0.2510	0.2377	
19 2,6-Dinitrotoluene	1	11.531	11.531	0.000	34973	0.2510	0.2444	
20 2,4-Dinitrotoluene	1	11.704	11.704	0.000	68930	0.2510	0.2402	
21 o-Nitrotoluene	1	12.571	12.578	-0.007	30342	0.2500	0.2363	
22 p-Nitrotoluene	1	13.011	13.011	0.000	26060	0.2505	0.2329	
23 m-Nitrotoluene	1	13.597	13.604	-0.007	33440	0.2503	0.2351	
24 PETN	2	14.684	14.684	0.000	179819	2.50	2.40	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

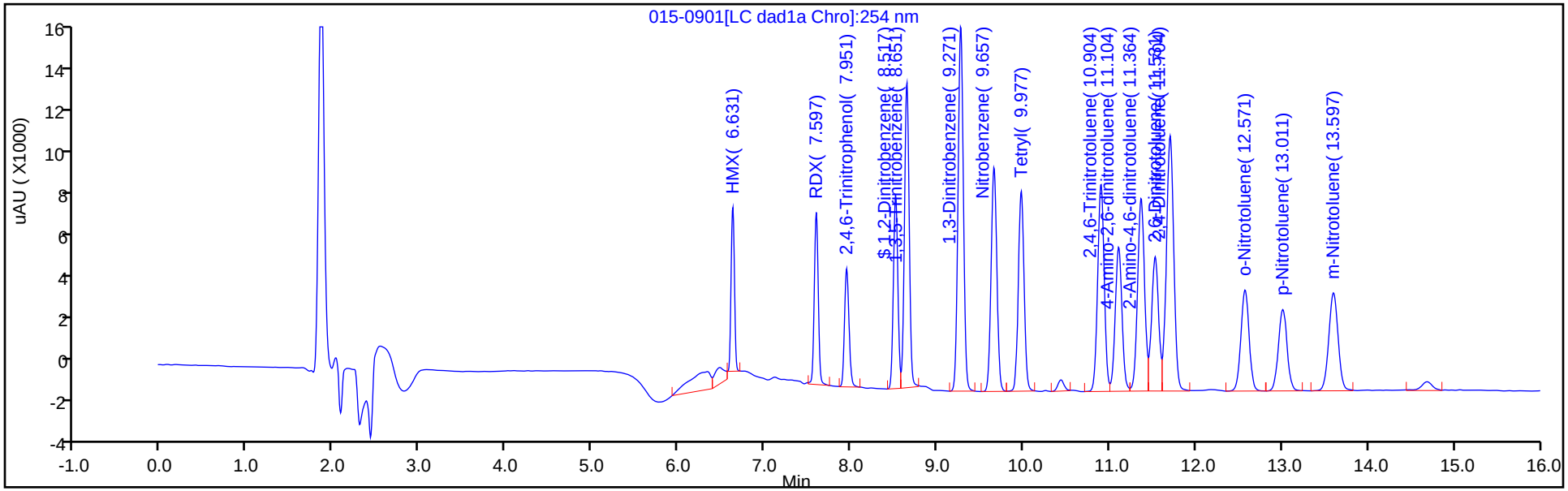
8330IntermStk_00067 Amount Added: 25.00 Units: uL

Report Date: 04-May-2021 13:25:08 Chrom Revision: 2.3 08-Apr-2021 17:17:48

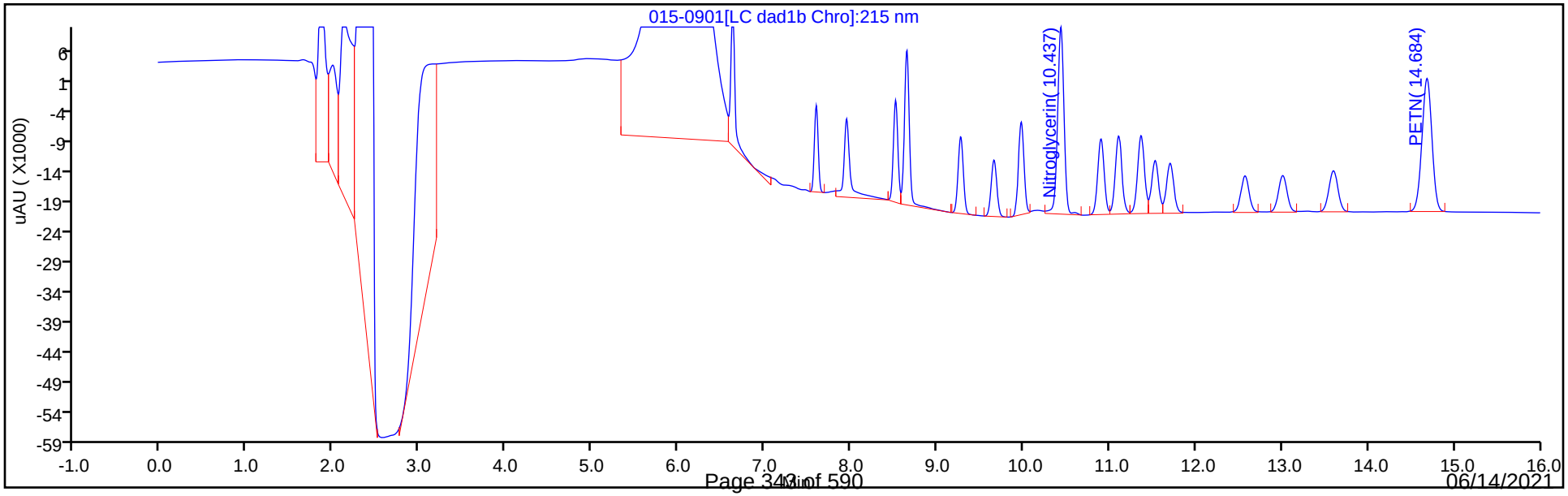
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\015-0901.d				
Injection Date:	01-May-2021 19:32:52	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 5			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

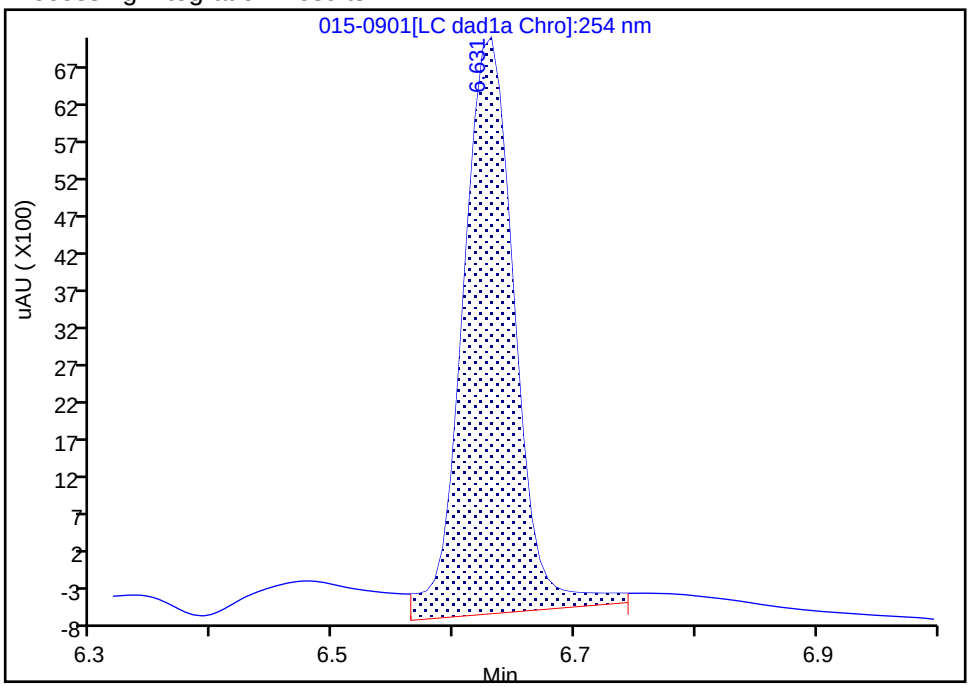
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\015-0901.d				
Injection Date:	01-May-2021 19:32:52	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

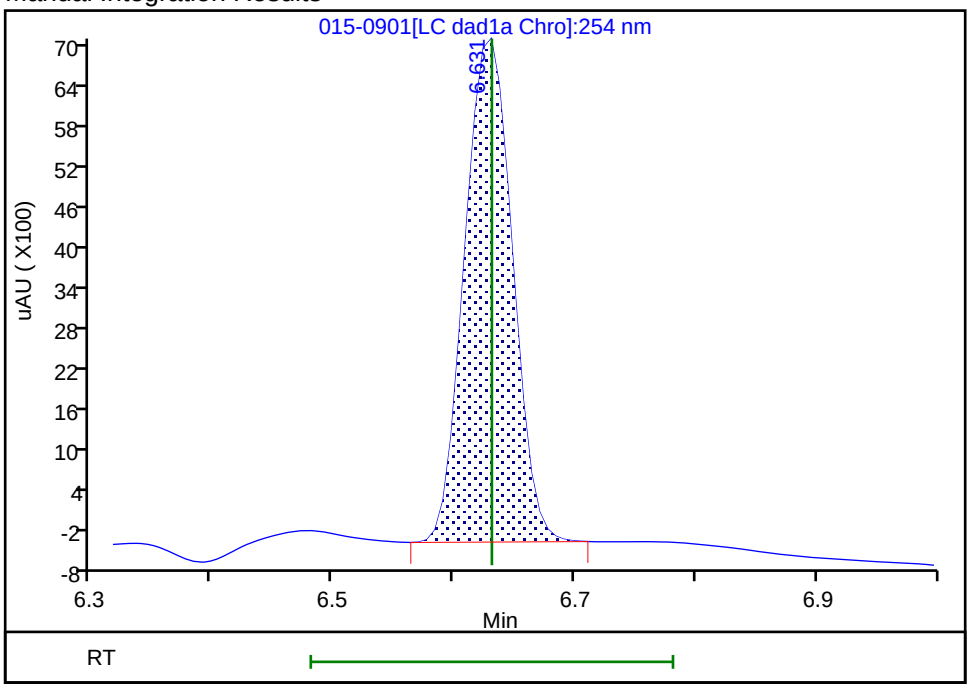
Processing Integration Results

RT: 6.63
Area: 22828
Amount: 0.260662
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 20261
Amount: 0.239998
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:16:27

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\016-1001.D
Lims ID: IC INT 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-May-2021 19:55:49 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 4
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:09 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:16:38

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.631	6.631	0.000	8561	0.1000	0.1014	M
7 RDX	1	7.598	7.598	0.000	11245	0.1000	0.1058	
8 2,4,6-Trinitrophenol	1	7.958	7.958	0.000	8317	0.1000	0.1005	
$ 9 1,2-Dinitrobenzene	1	8.525	8.525	0.000	13218	0.1000	0.1031	
10 1,3,5-Trinitrobenzene	1	8.651	8.651	0.000	22114	0.1002	0.1004	
11 1,3-Dinitrobenzene	1	9.278	9.278	0.000	30099	0.1002	0.1016	
12 Nitrobenzene	1	9.664	9.664	0.000	20078	0.1004	0.1028	
14 Tetryl	1	9.978	9.978	0.000	17920	0.1002	0.1039	
15 Nitroglycerin	2	10.438	10.438	0.000	71053	1.00	1.04	
16 2,4,6-Trinitrotoluene	1	10.904	10.904	0.000	21286	0.1004	0.1033	
17 4-Amino-2,6-dinitrotoluene	1	11.111	11.111	0.000	15505	0.1001	0.1015	
18 2-Amino-4,6-dinitrotoluene	1	11.371	11.371	0.000	21203	0.1004	0.1025	
19 2,6-Dinitrotoluene	1	11.531	11.531	0.000	14557	0.1004	0.1017	
20 2,4-Dinitrotoluene	1	11.704	11.704	0.000	29362	0.1004	0.1023	
21 o-Nitrotoluene	1	12.578	12.578	0.000	13138	0.1000	0.1023	
22 p-Nitrotoluene	1	13.011	13.011	0.000	11083	0.1002	0.0990	
23 m-Nitrotoluene	1	13.604	13.604	0.000	14179	0.1001	0.0997	
24 PETN	2	14.684	14.684	0.000	75747	1.00	1.01	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

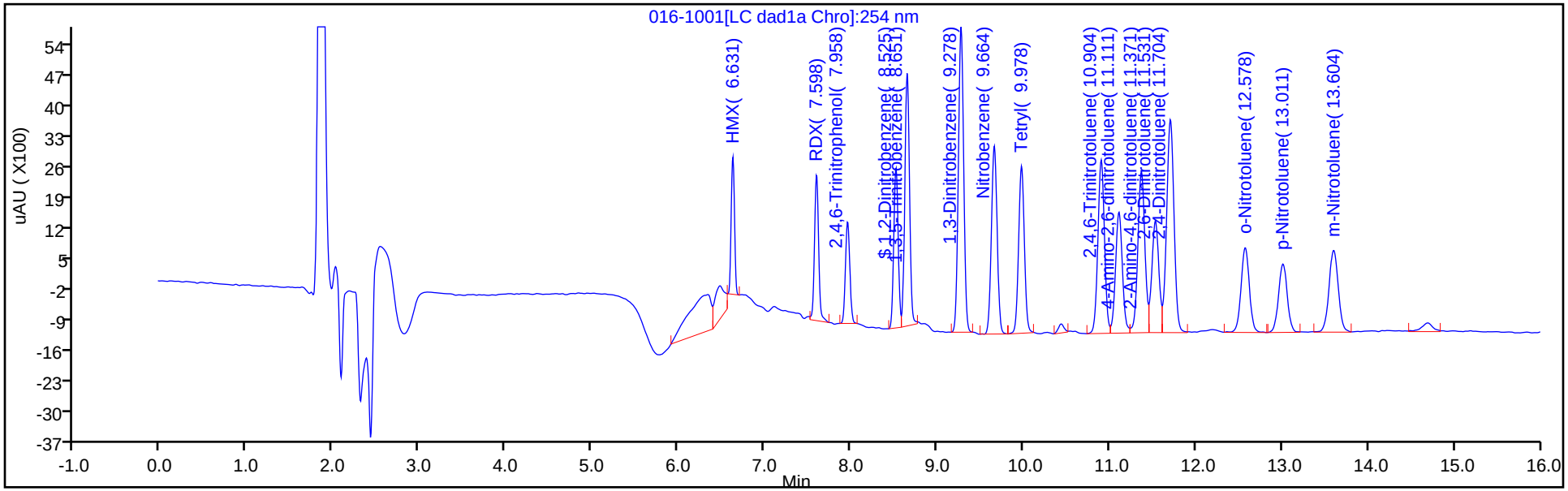
8330IntermStk_00067 Amount Added: 10.00 Units: uL

Report Date: 04-May-2021 13:25:09 Chrom Revision: 2.3 08-Apr-2021 17:17:48

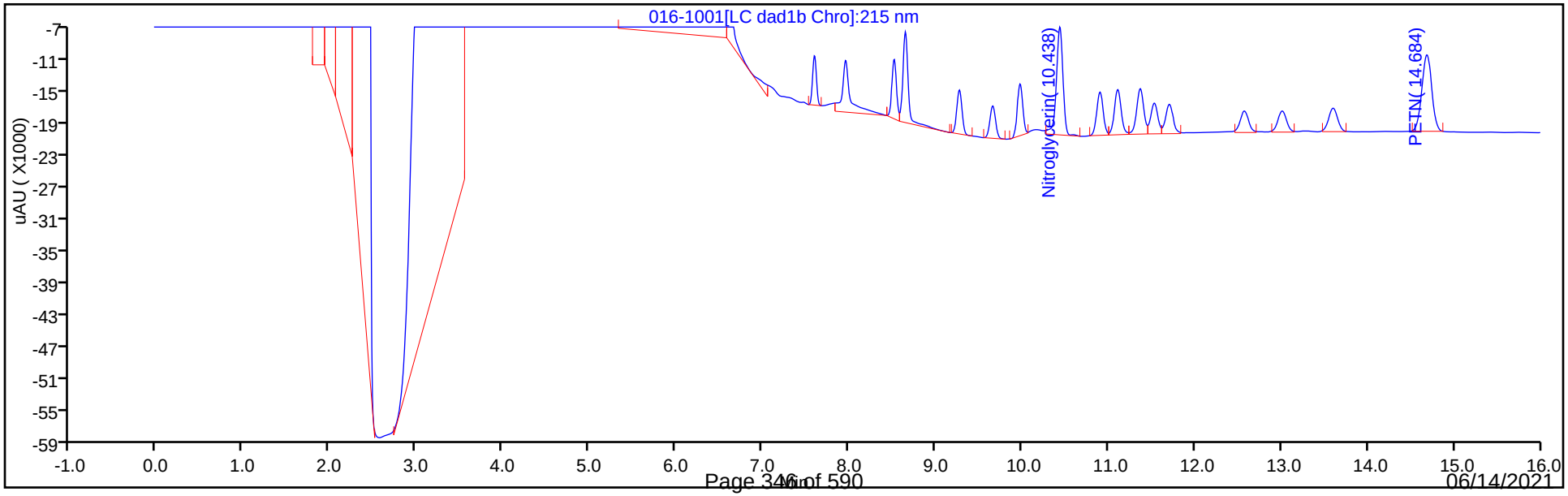
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\016-1001.d				
Injection Date:	01-May-2021 19:55:49	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 4			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

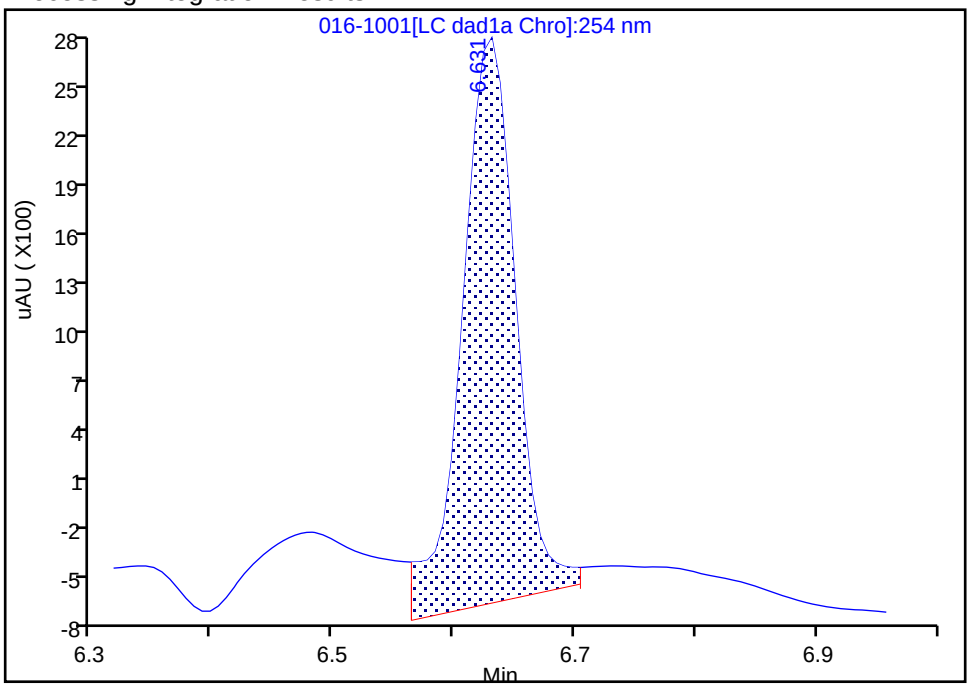
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\016-1001.d				
Injection Date:	01-May-2021 19:55:49	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 4				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

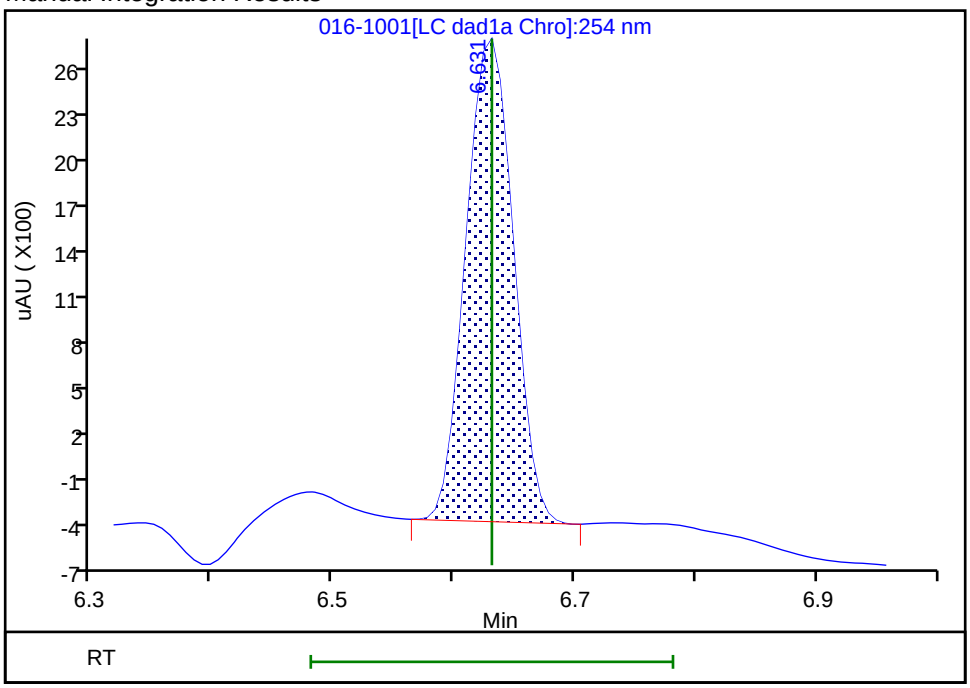
Processing Integration Results

RT: 6.63
Area: 10439
Amount: 0.111561
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 8561
Amount: 0.101408
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:16:35

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\017-1101.D
Lims ID: IC INT 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-May-2021 20:18:45 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 3
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:10 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:16:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.628	6.631	-0.003	4242	0.0500	0.0502	M
7 RDX	1	7.602	7.598	0.004	6054	0.0500	0.0570	
8 2,4,6-Trinitrophenol	1	7.968	7.958	0.010	4575	0.0500	0.0553	
$ 9 1,2-Dinitrobenzene	1	8.522	8.525	-0.003	6504	0.0500	0.0507	
10 1,3,5-Trinitrobenzene	1	8.655	8.651	0.004	11361	0.0501	0.0516	
11 1,3-Dinitrobenzene	1	9.282	9.278	0.004	14927	0.0501	0.0504	
12 Nitrobenzene	1	9.662	9.664	-0.002	9892	0.0502	0.0507	
14 Tetryl	1	9.982	9.978	0.004	8870	0.0501	0.0514	
15 Nitroglycerin	2	10.442	10.438	0.004	36983	0.5000	0.5113	
16 2,4,6-Trinitrotoluene	1	10.908	10.904	0.004	10514	0.0502	0.0510	
17 4-Amino-2,6-dinitrotoluene	1	11.115	11.111	0.004	7868	0.0501	0.0515	
18 2-Amino-4,6-dinitrotoluene	1	11.375	11.371	0.004	10789	0.0502	0.0521	
19 2,6-Dinitrotoluene	1	11.535	11.531	0.004	7360	0.0502	0.0514	
20 2,4-Dinitrotoluene	1	11.708	11.704	0.004	14647	0.0502	0.0510	
21 o-Nitrotoluene	1	12.575	12.578	-0.003	6616	0.0500	0.0515	
22 p-Nitrotoluene	1	13.015	13.011	0.004	5724	0.0501	0.0511	
23 m-Nitrotoluene	1	13.602	13.604	-0.002	7187	0.0501	0.0505	
24 PETN	2	14.688	14.684	0.004	37293	0.5000	0.4987	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

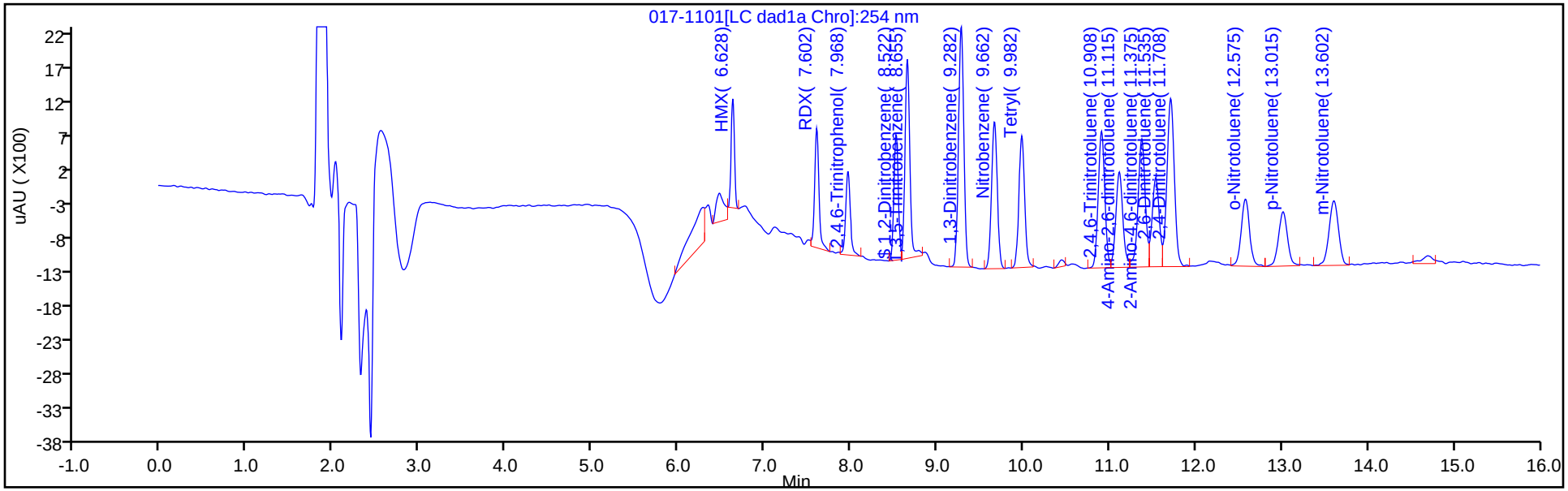
8330IntermStk_00067 Amount Added: 5.00 Units: uL

Report Date: 04-May-2021 13:25:10 Chrom Revision: 2.3 08-Apr-2021 17:17:48

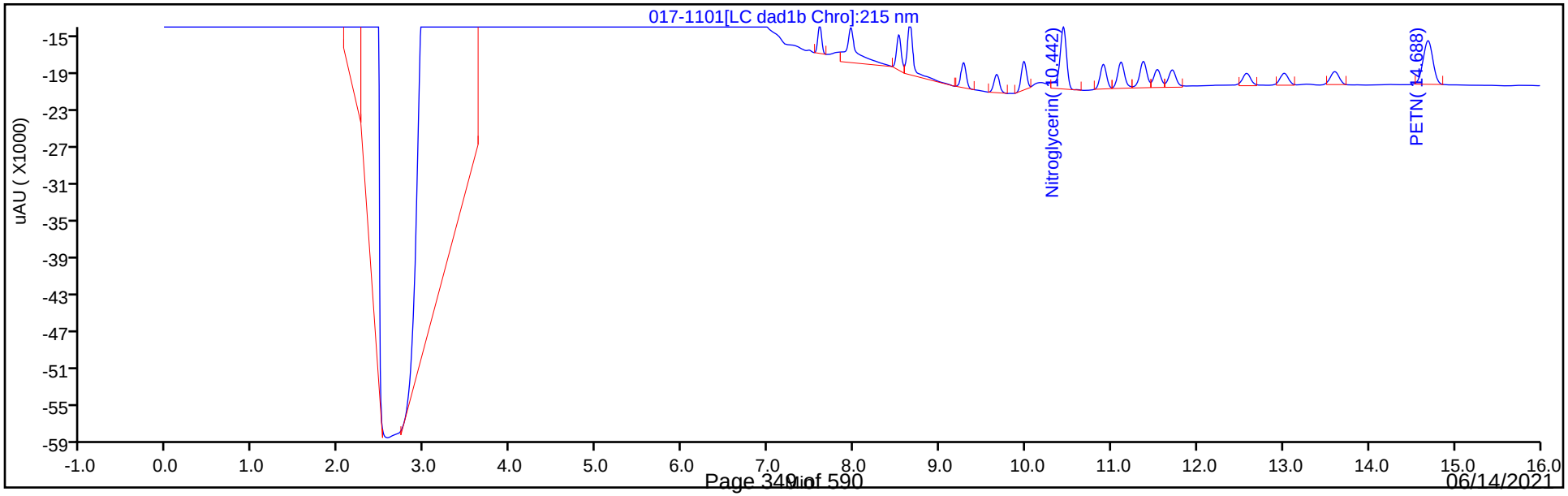
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\017-1101.d				
Injection Date:	01-May-2021 20:18:45	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 3			Worklist Smp#:	17
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

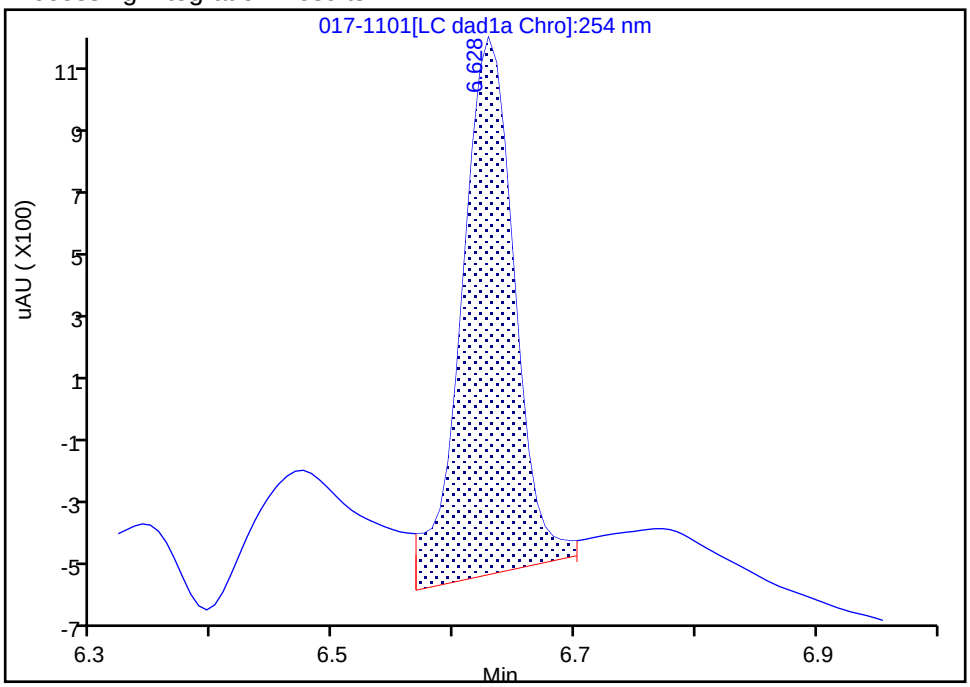
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\017-1101.d				
Injection Date:	01-May-2021 20:18:45	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

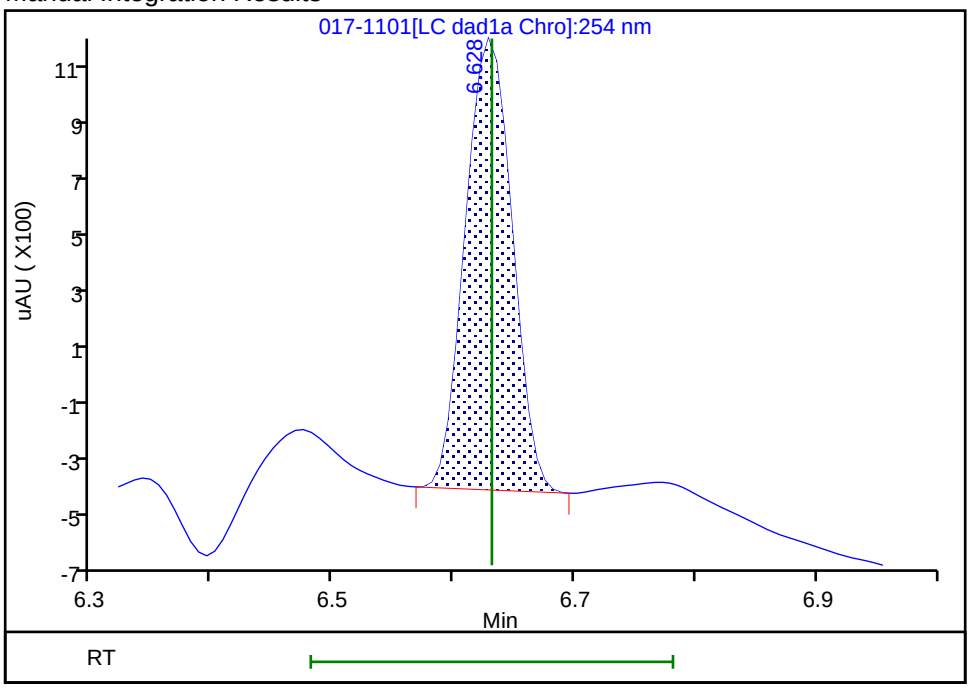
Processing Integration Results

RT: 6.63
Area: 5138
Amount: 0.048188
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 4242
Amount: 0.050248
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:16:49
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\018-1201.D
Lims ID: IC INT 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-May-2021 20:41:41 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 2
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:10 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:17:07

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.626	6.631	-0.005	1680	0.0200	0.0199	M
7 RDX	1	7.606	7.598	0.008	2207	0.0200	0.0208	M
8 2,4,6-Trinitrophenol	1	7.966	7.958	0.008	1840	0.0200	0.0222	
$ 9 1,2-Dinitrobenzene	1	8.526	8.525	0.001	2399	0.0200	0.0187	
10 1,3,5-Trinitrobenzene	1	8.653	8.651	0.002	4038	0.0200	0.0183	
11 1,3-Dinitrobenzene	1	9.280	9.278	0.002	6019	0.0200	0.0203	
12 Nitrobenzene	1	9.666	9.664	0.002	3972	0.0201	0.0203	
14 Tetryl	1	9.980	9.978	0.002	3331	0.0200	0.0193	M
15 Nitroglycerin	2	10.440	10.438	0.002	16162	0.2000	0.1865	
16 2,4,6-Trinitrotoluene	1	10.906	10.904	0.002	4156	0.0201	0.0202	
17 4-Amino-2,6-dinitrotoluene	1	11.106	11.111	-0.005	3532	0.0200	0.0231	
18 2-Amino-4,6-dinitrotoluene	1	11.366	11.371	-0.005	4433	0.0201	0.0214	
19 2,6-Dinitrotoluene	1	11.533	11.531	0.002	2947	0.0201	0.0206	
20 2,4-Dinitrotoluene	1	11.706	11.704	0.002	5945	0.0201	0.0207	
21 o-Nitrotoluene	1	12.573	12.578	-0.005	2737	0.0200	0.0213	
22 p-Nitrotoluene	1	13.006	13.011	-0.005	2633	0.0200	0.0235	
23 m-Nitrotoluene	1	13.600	13.604	-0.004	3121	0.0200	0.0219	
24 PETN	2	14.680	14.684	-0.004	14944	0.2000	0.1998	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

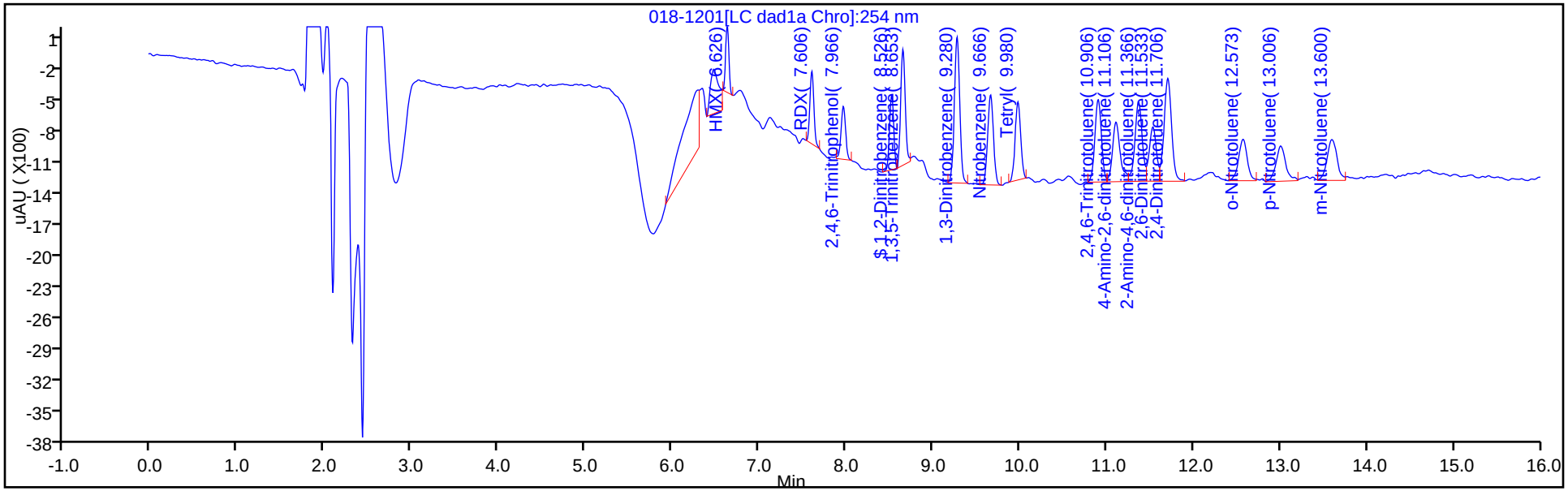
8330IntermStk_00067 Amount Added: 2.00 Units: uL

Report Date: 04-May-2021 13:25:11 Chrom Revision: 2.3 08-Apr-2021 17:17:48

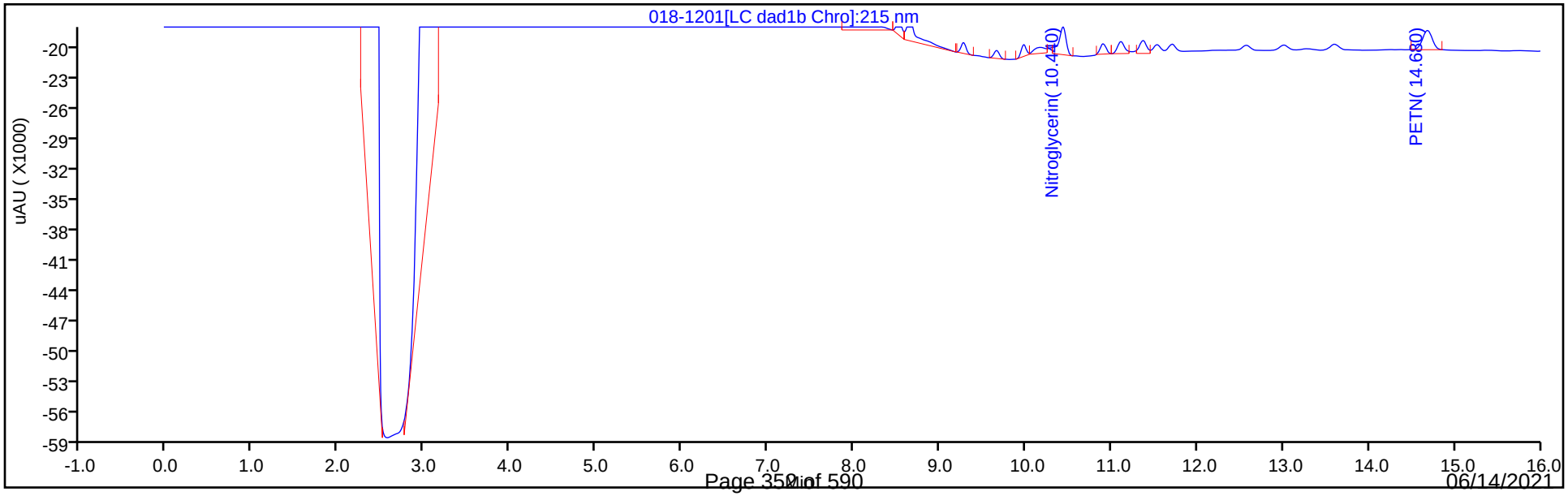
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\018-1201.d				
Injection Date:	01-May-2021 20:41:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 2			Worklist Smp#:	18
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

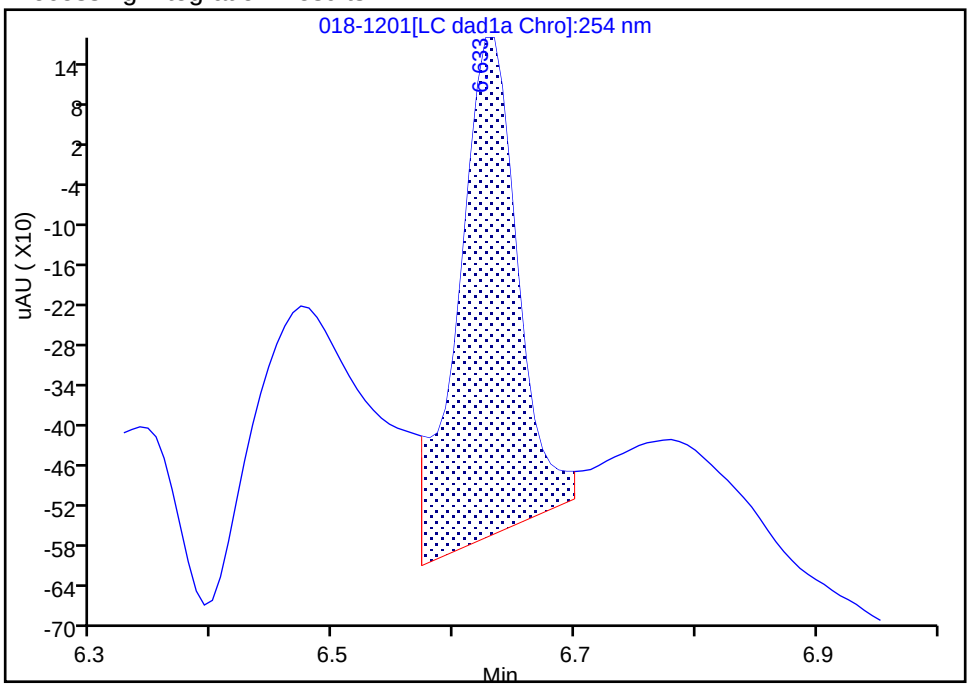
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\018-1201.d				
Injection Date:	01-May-2021 20:41:41	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

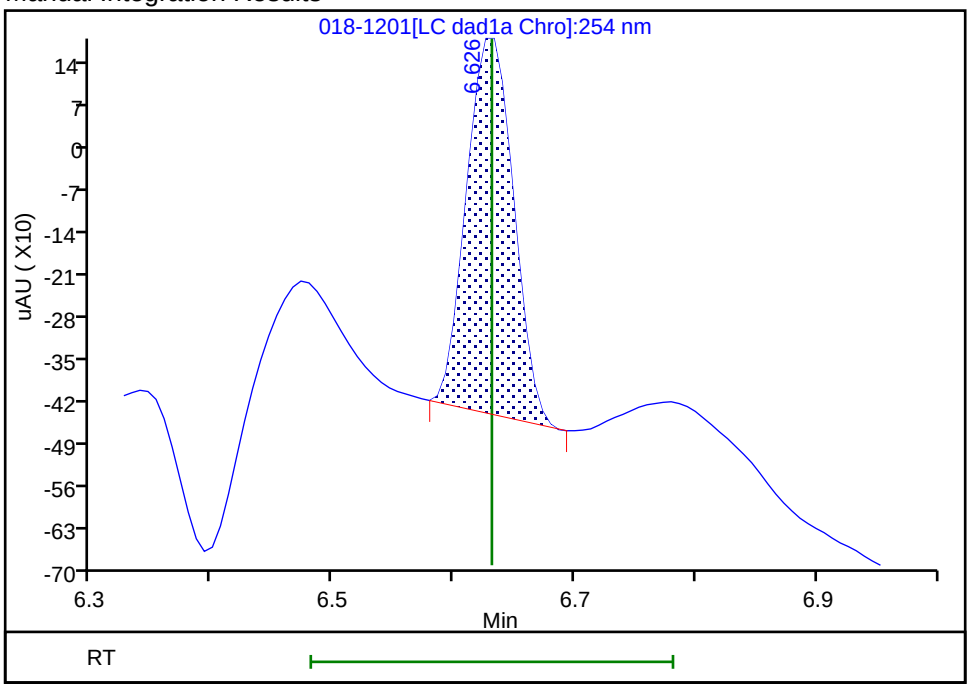
Processing Integration Results

RT: 6.63
Area: 2563
Amount: 0.017888
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 1680
Amount: 0.019900
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:16:58

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

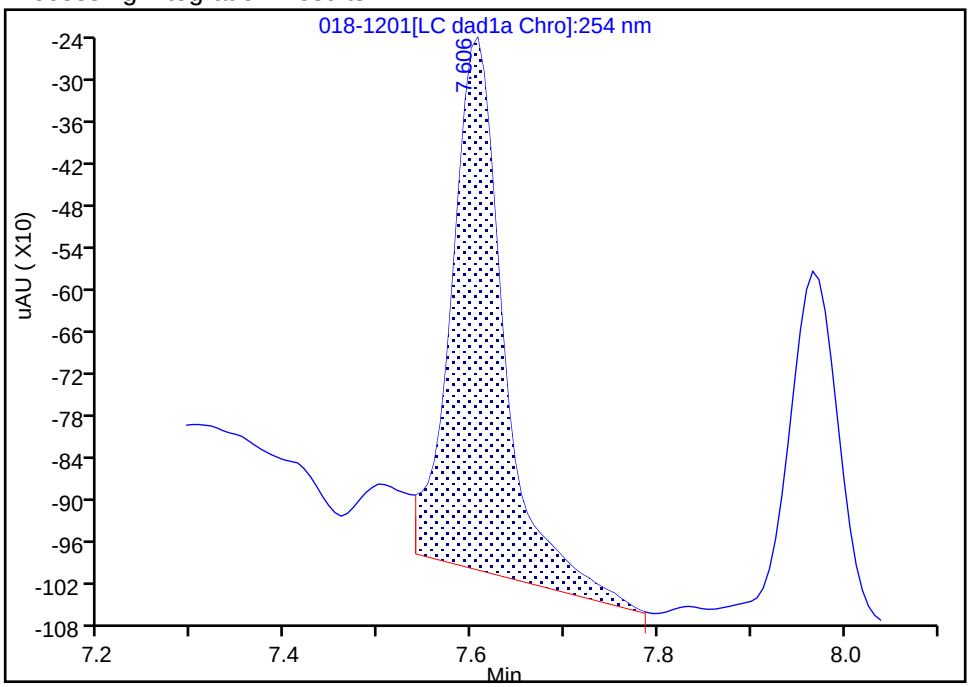
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\018-1201.d				
Injection Date:	01-May-2021 20:41:41	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

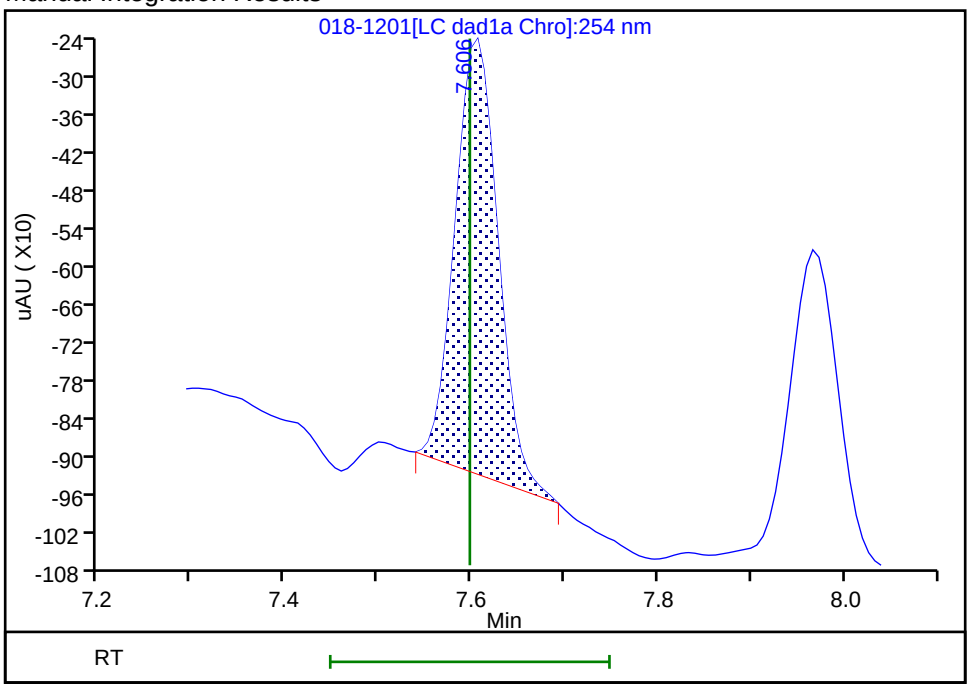
Processing Integration Results

RT: 7.61
Area: 2982
Amount: 0.020729
Amount Units: ug/mL



Manual Integration Results

RT: 7.61
Area: 2207
Amount: 0.020770
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:18:38

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

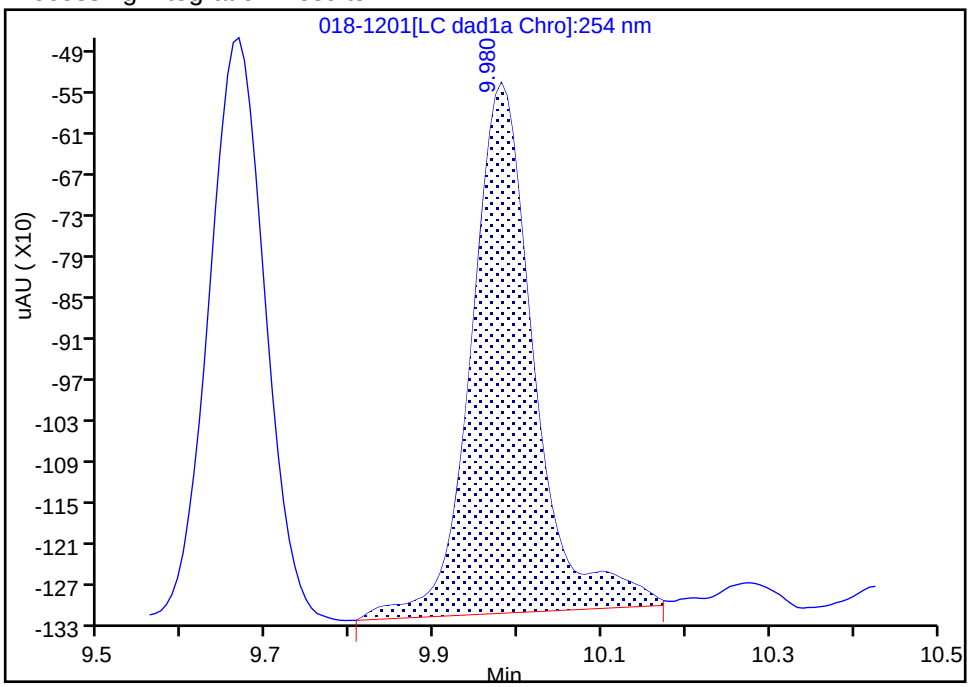
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\018-1201.d				
Injection Date:	01-May-2021 20:41:41	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8

Signal: 1

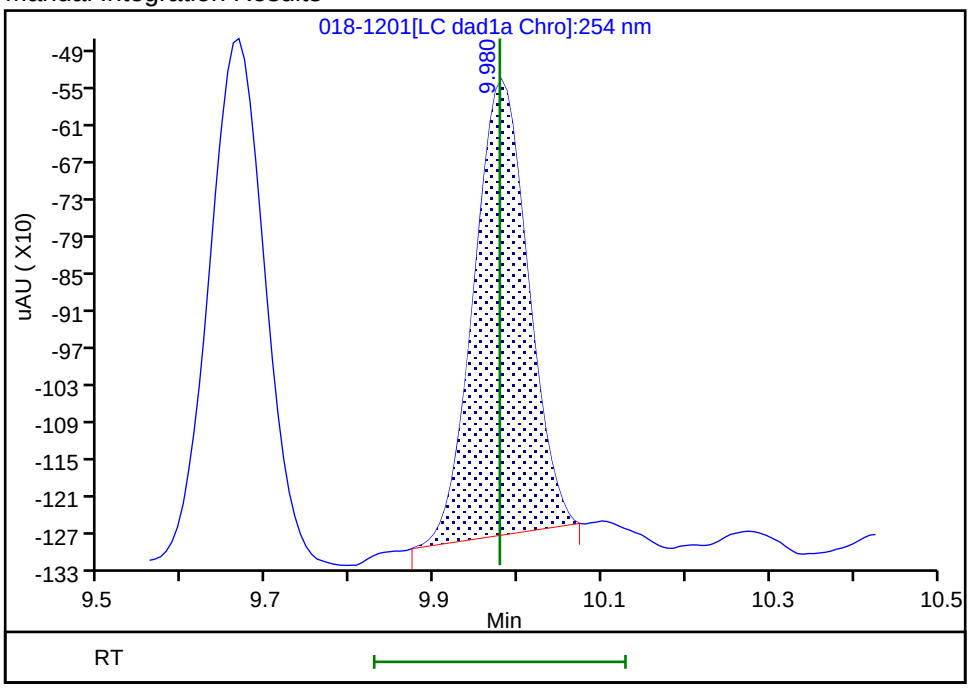
Processing Integration Results

RT: 9.98
Area: 4075
Amount: 0.022280
Amount Units: ug/mL



Manual Integration Results

RT: 9.98
Area: 3331
Amount: 0.019319
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:23:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

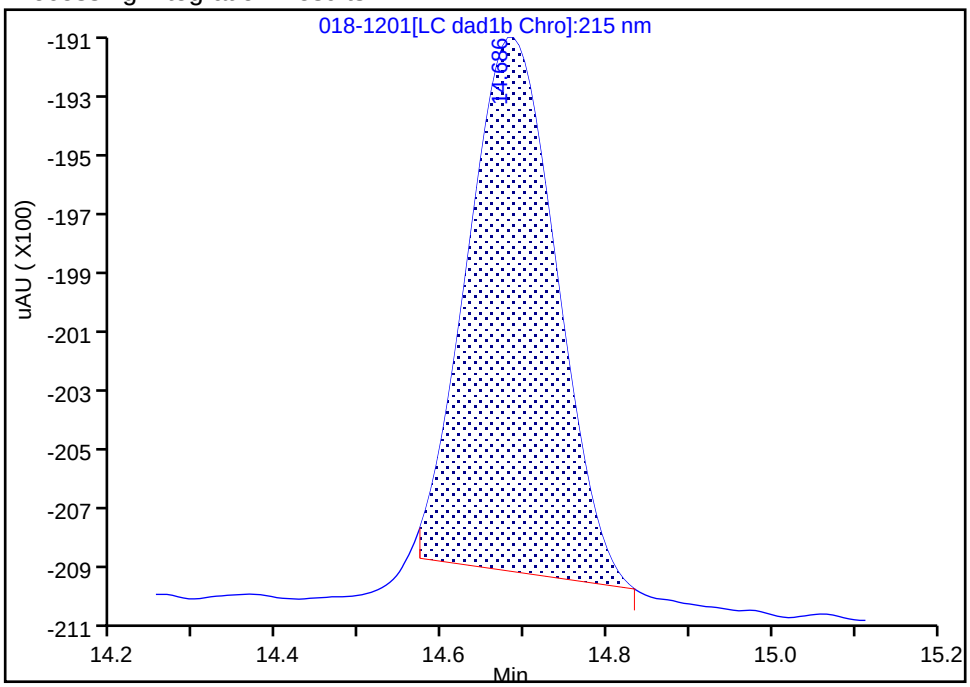
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\018-1201.d				
Injection Date:	01-May-2021 20:41:41	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1C, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

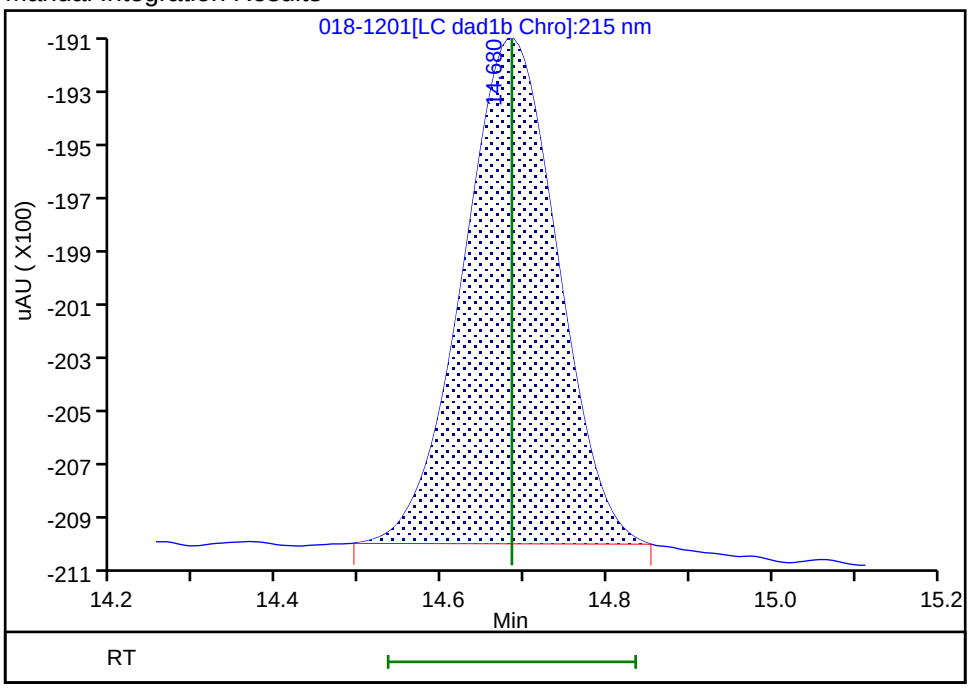
Processing Integration Results

RT: 14.69
Area: 13412
Amount: 0.181421
Amount Units: ug/mL



Manual Integration Results

RT: 14.68
Area: 14944
Amount: 0.199843
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:18:31

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D
Lims ID: IC INT 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-May-2021 21:04:39 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 1
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:25:11 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:18:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.629	6.631	-0.002	906	0.0100	0.0107	M
7 RDX	1	7.602	7.598	0.004	1876	0.0100	0.0177	
8 2,4,6-Trinitrophenol	1	7.962	7.958	0.004	1003	0.0100	0.0121	
$ 9 1,2-Dinitrobenzene	1	8.522	8.525	-0.003	1195	0.0100	0.009320	
10 1,3,5-Trinitrobenzene	1	8.649	8.651	-0.002	2481	0.0100	0.0113	
11 1,3-Dinitrobenzene	1	9.275	9.278	-0.003	3052	0.0100	0.0103	
12 Nitrobenzene	1	9.662	9.664	-0.002	1995	0.0100	0.0102	
14 Tetryl	1	9.975	9.978	-0.003	1712	0.0100	0.0099	M
15 Nitroglycerin	2	10.435	10.438	-0.003	10778	0.1000	0.1025	M
16 2,4,6-Trinitrotoluene	1	10.902	10.904	-0.002	2128	0.0100	0.0103	
17 4-Amino-2,6-dinitrotoluene	1	11.109	11.111	-0.002	1596	0.0100	0.0104	
18 2-Amino-4,6-dinitrotoluene	1	11.369	11.371	-0.002	2126	0.0100	0.0103	
19 2,6-Dinitrotoluene	1	11.529	11.531	-0.002	1404	0.0100	0.009813	
20 2,4-Dinitrotoluene	1	11.702	11.704	-0.002	2944	0.0100	0.0103	
21 o-Nitrotoluene	1	12.575	12.578	-0.003	1346	0.0100	0.0105	
22 p-Nitrotoluene	1	13.015	13.011	0.004	1177	0.0100	0.0105	
23 m-Nitrotoluene	1	13.602	13.604	-0.002	1575	0.0100	0.0111	
24 PETN	2	14.682	14.684	-0.002	7901	0.1000	0.1057	Ma

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

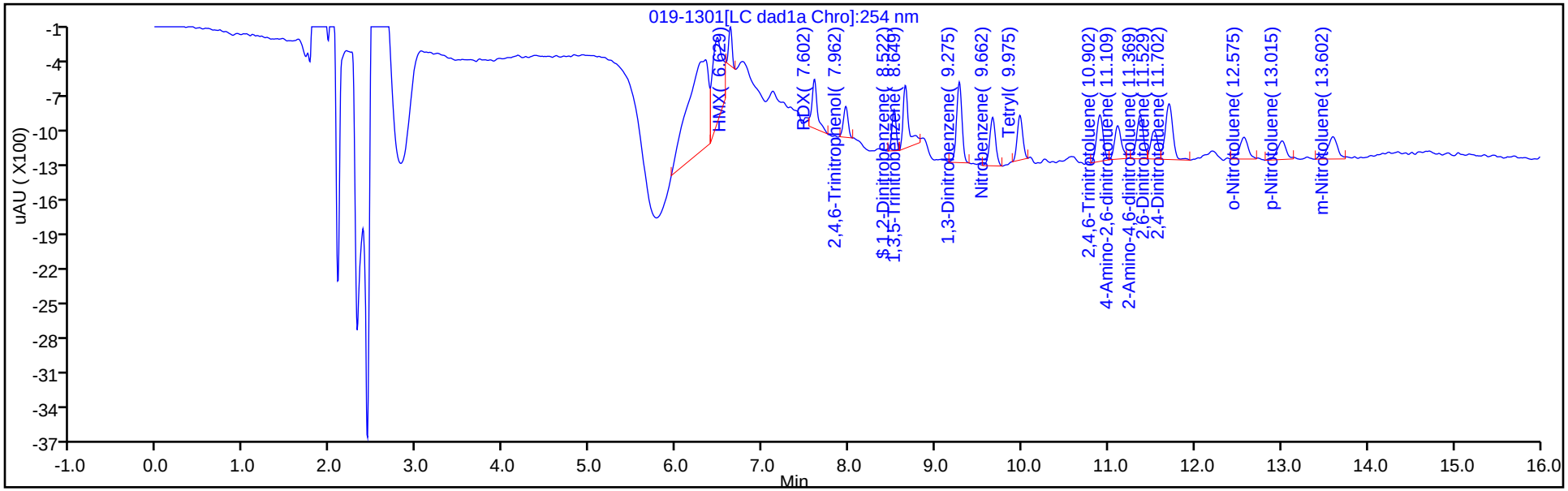
8330IntermStk_00067 Amount Added: 1.00 Units: uL

Report Date: 04-May-2021 13:25:11 Chrom Revision: 2.3 08-Apr-2021 17:17:48

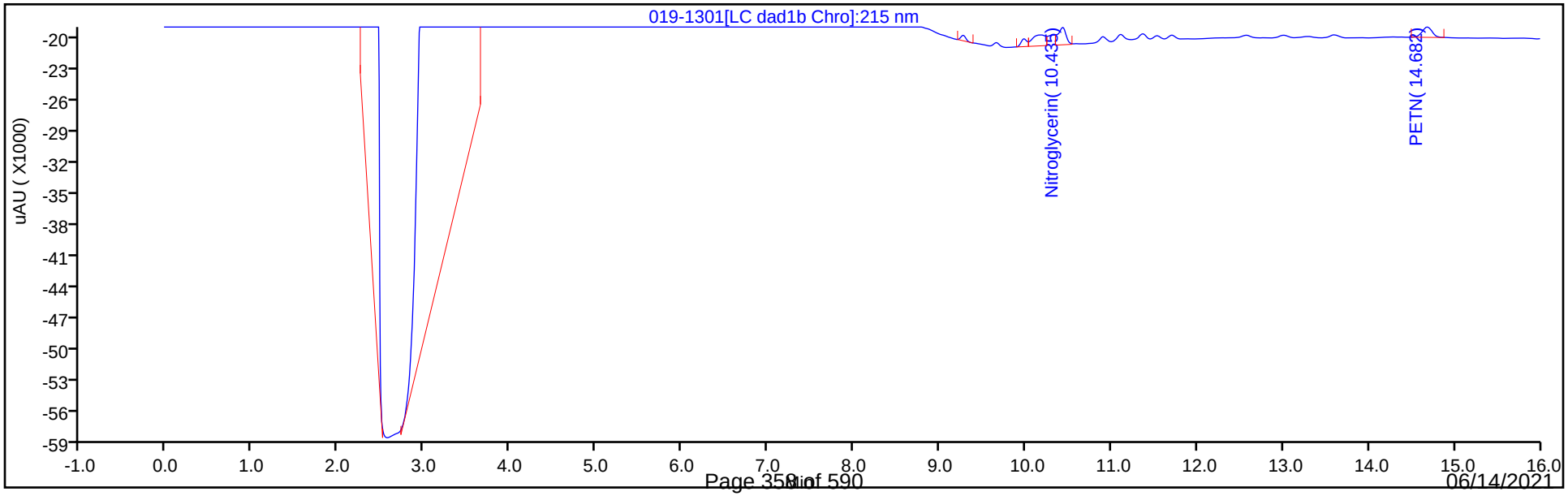
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\019-1301.d				
Injection Date:	01-May-2021 21:04:39	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	IC INT 1			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

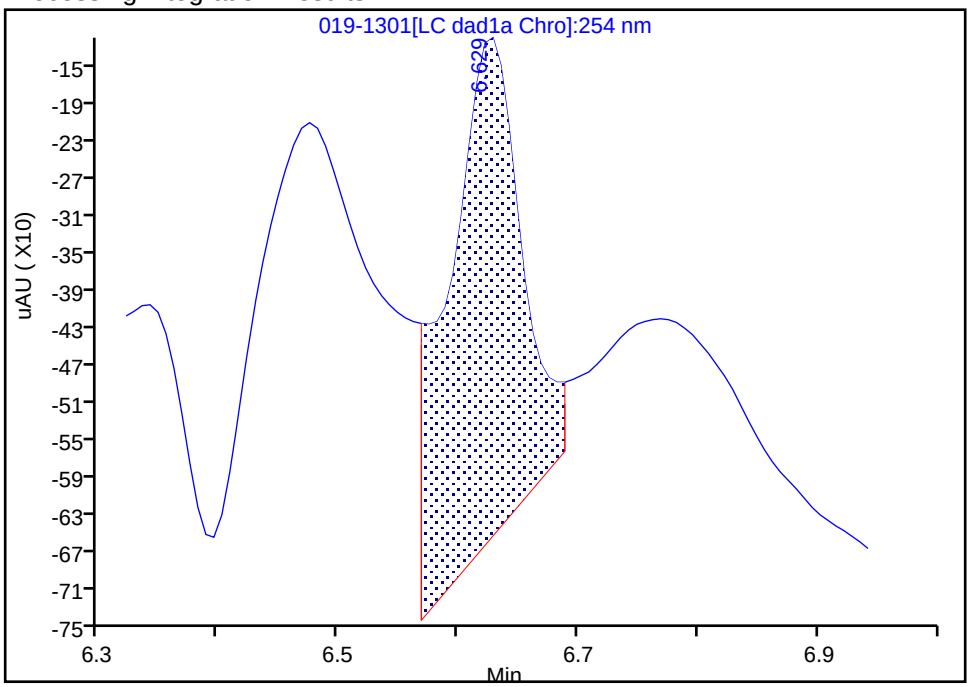
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\019-1301.d				
Injection Date:	01-May-2021 21:04:39	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

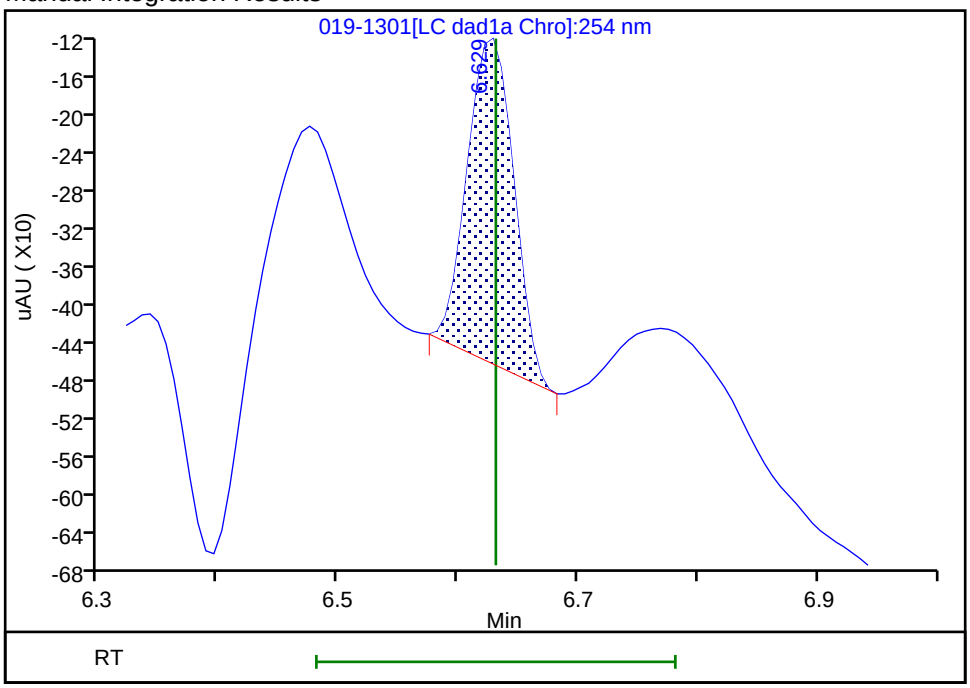
Processing Integration Results

RT: 6.63
Area: 2314
Amount: 0.023125
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 906
Amount: 0.010732
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:17:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

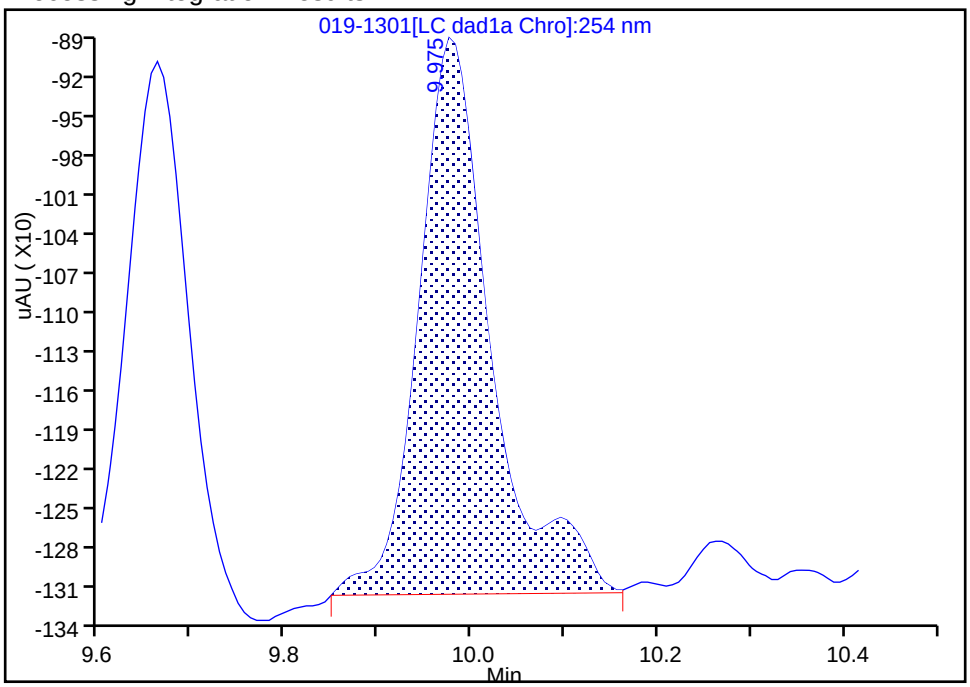
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\019-1301.d				
Injection Date:	01-May-2021 21:04:39	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8

Signal: 1

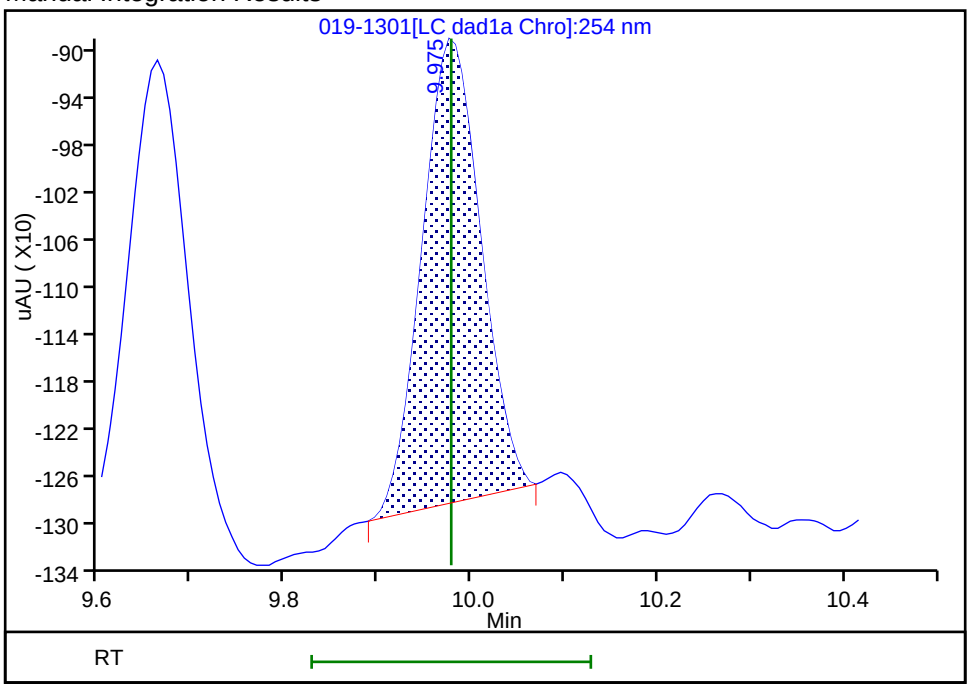
Processing Integration Results

RT: 9.98
Area: 2285
Amount: 0.012782
Amount Units: ug/mL



Manual Integration Results

RT: 9.98
Area: 1712
Amount: 0.009929
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:23:41

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

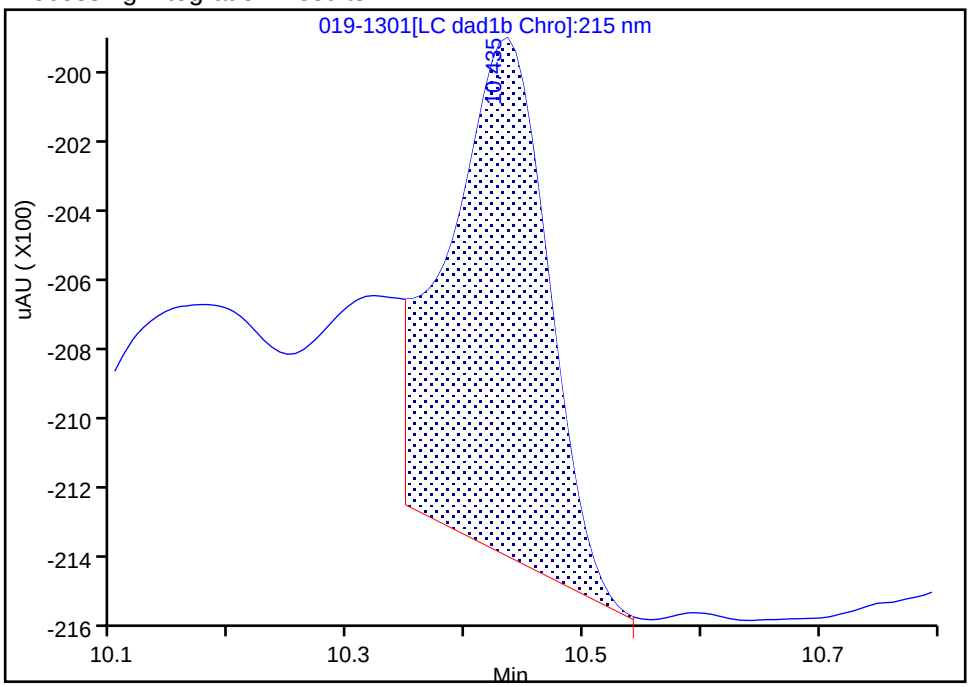
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\019-1301.d				
Injection Date:	01-May-2021 21:04:39	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1C, 215 nm		

15 Nitroglycerin, CAS: 55-63-0

Signal: 1

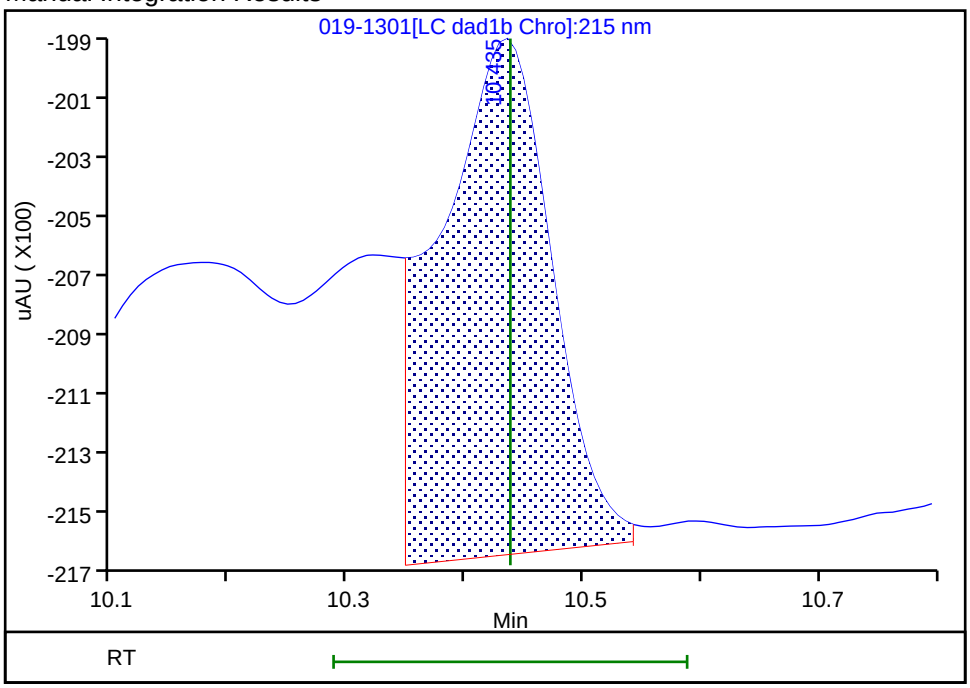
Processing Integration Results

RT: 10.44
Area: 8028
Amount: 0.114856
Amount Units: ug/mL



Manual Integration Results

RT: 10.44
Area: 10778
Amount: 0.102544
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:18:01

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

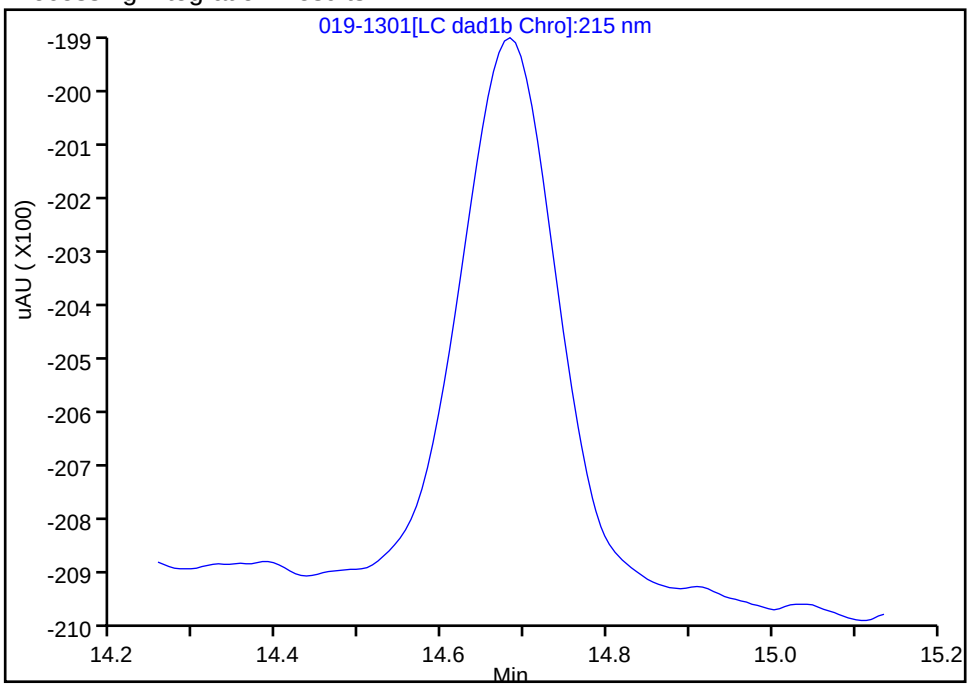
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\019-1301.d				
Injection Date:	01-May-2021 21:04:39	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1C, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

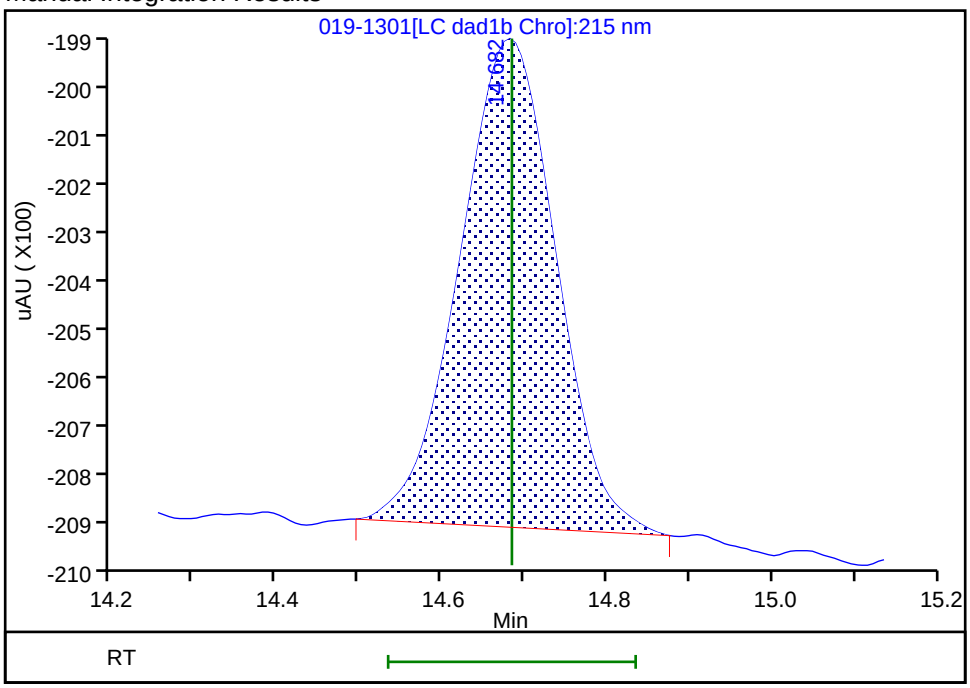
Not Detected
Expected RT: 14.68

Processing Integration Results



Manual Integration Results

RT: 14.68
Area: 7901
Amount: 0.105659
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:17:51
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Calibration / HMX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

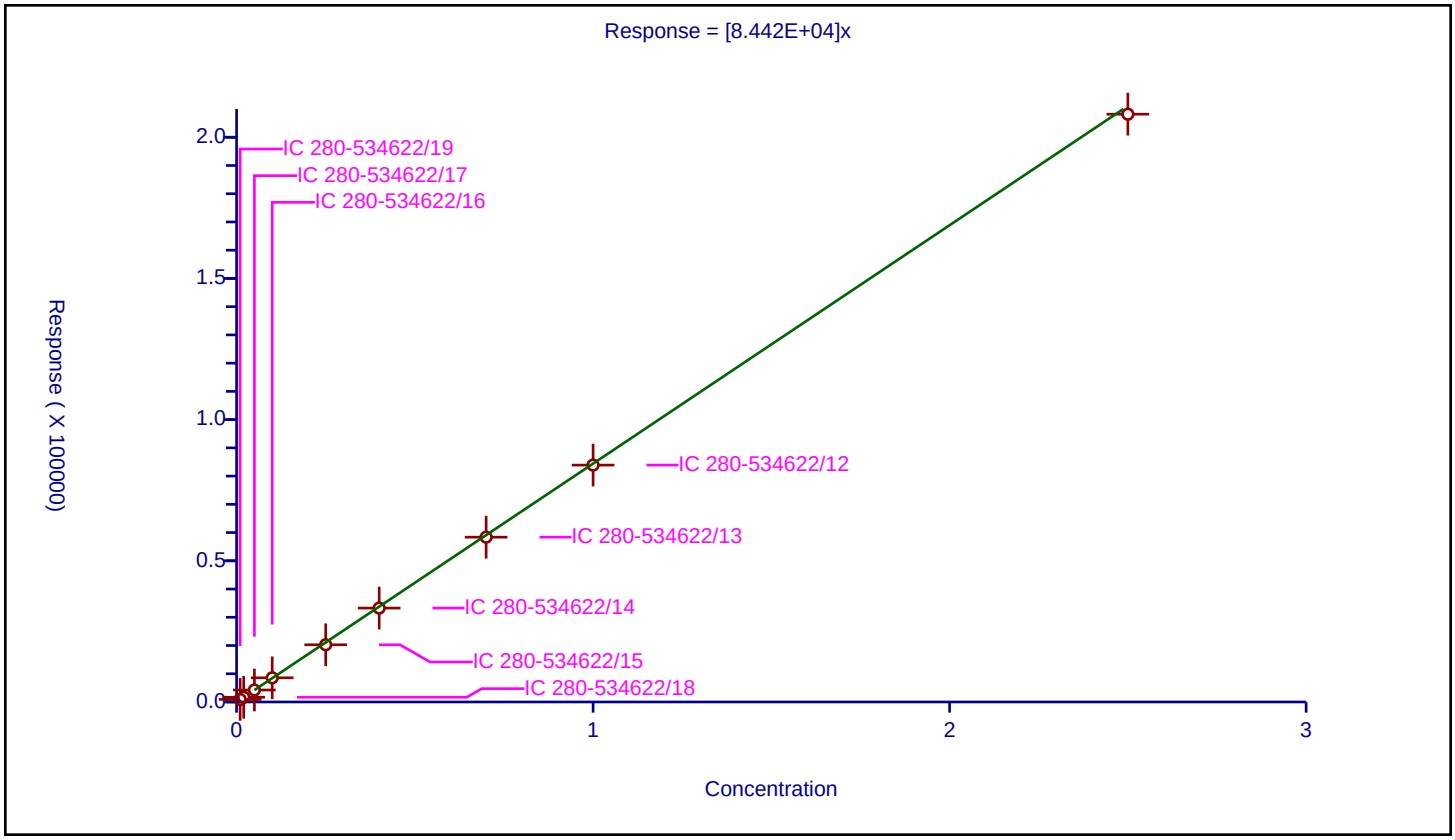
Curve Coefficients

Intercept:	0
Slope:	8.442E+04

Error Coefficients

Standard Error:	1130
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01	906.0			90600.0	Y
2	IC 280-534622/18	0.02	1680.0			84000.0	Y
3	IC 280-534622/17	0.05	4242.0			84840.0	Y
4	IC 280-534622/16	0.1	8561.0			85610.0	Y
5	IC 280-534622/15	0.25	20261.0			81044.0	Y
6	IC 280-534622/14	0.4	33261.0			83152.5	Y
7	IC 280-534622/13	0.7	58367.0			83381.428571	Y
8	IC 280-534622/12	1.0	83899.0			83899.0	Y
9	IC 280-534622/11	2.5	208165.0			83266.0	Y



Calibration / RDX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

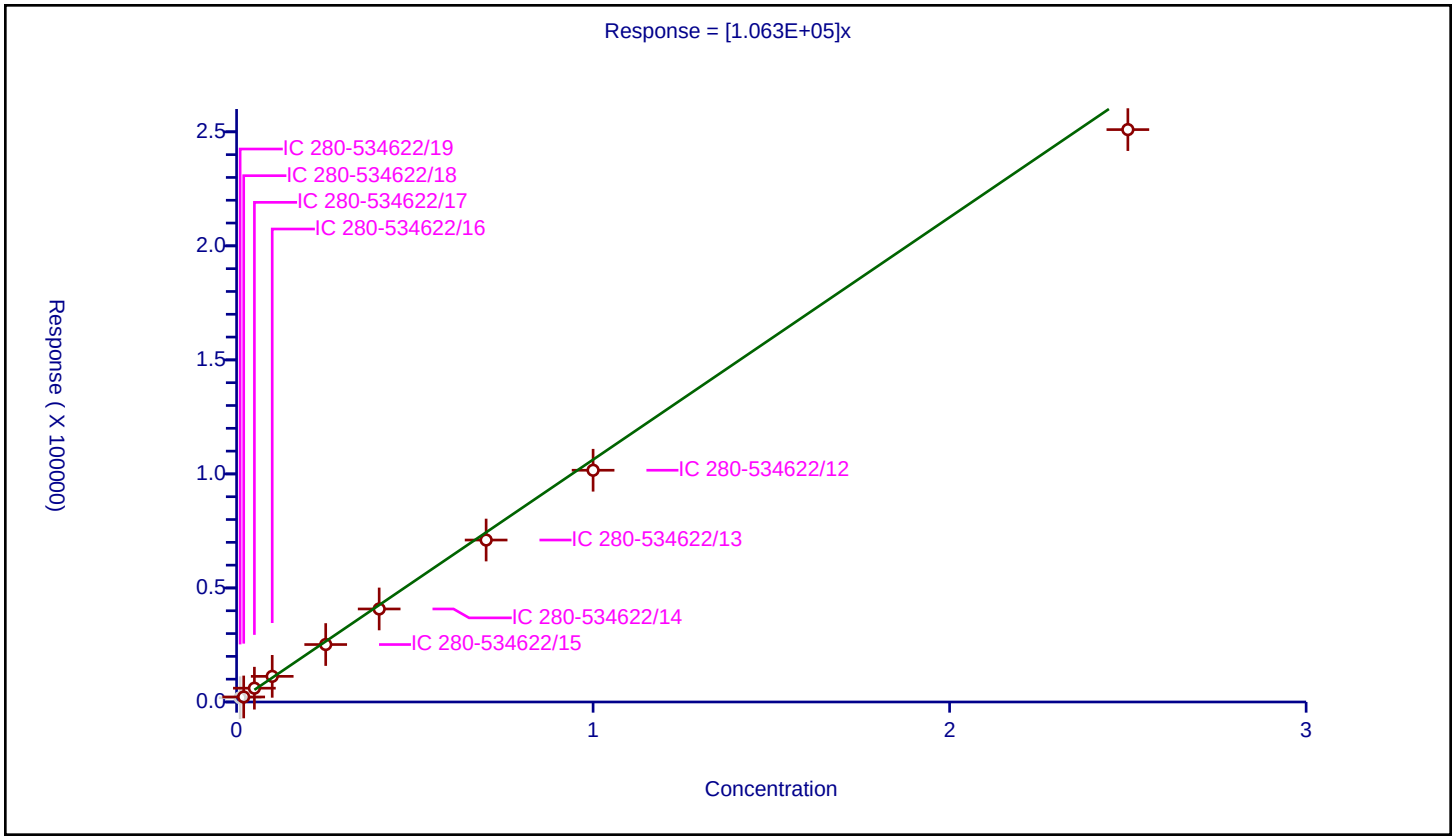
Curve Coefficients

Intercept:	0
Slope:	1.063E+05

Error Coefficients

Standard Error:	6020
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01	1876.0			187600.0	N
2	IC 280-534622/18	0.02	2207.0			110350.0	Y
3	IC 280-534622/17	0.05	6054.0			121080.0	Y
4	IC 280-534622/16	0.1	11245.0			112450.0	Y
5	IC 280-534622/15	0.25	25193.0			100772.0	Y
6	IC 280-534622/14	0.4	40790.0			101975.0	Y
7	IC 280-534622/13	0.7	71020.0			101457.142857	Y
8	IC 280-534622/12	1.0	101616.0			101616.0	Y
9	IC 280-534622/11	2.5	250979.0			100391.6	Y



Calibration / 2,4,6-Trinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

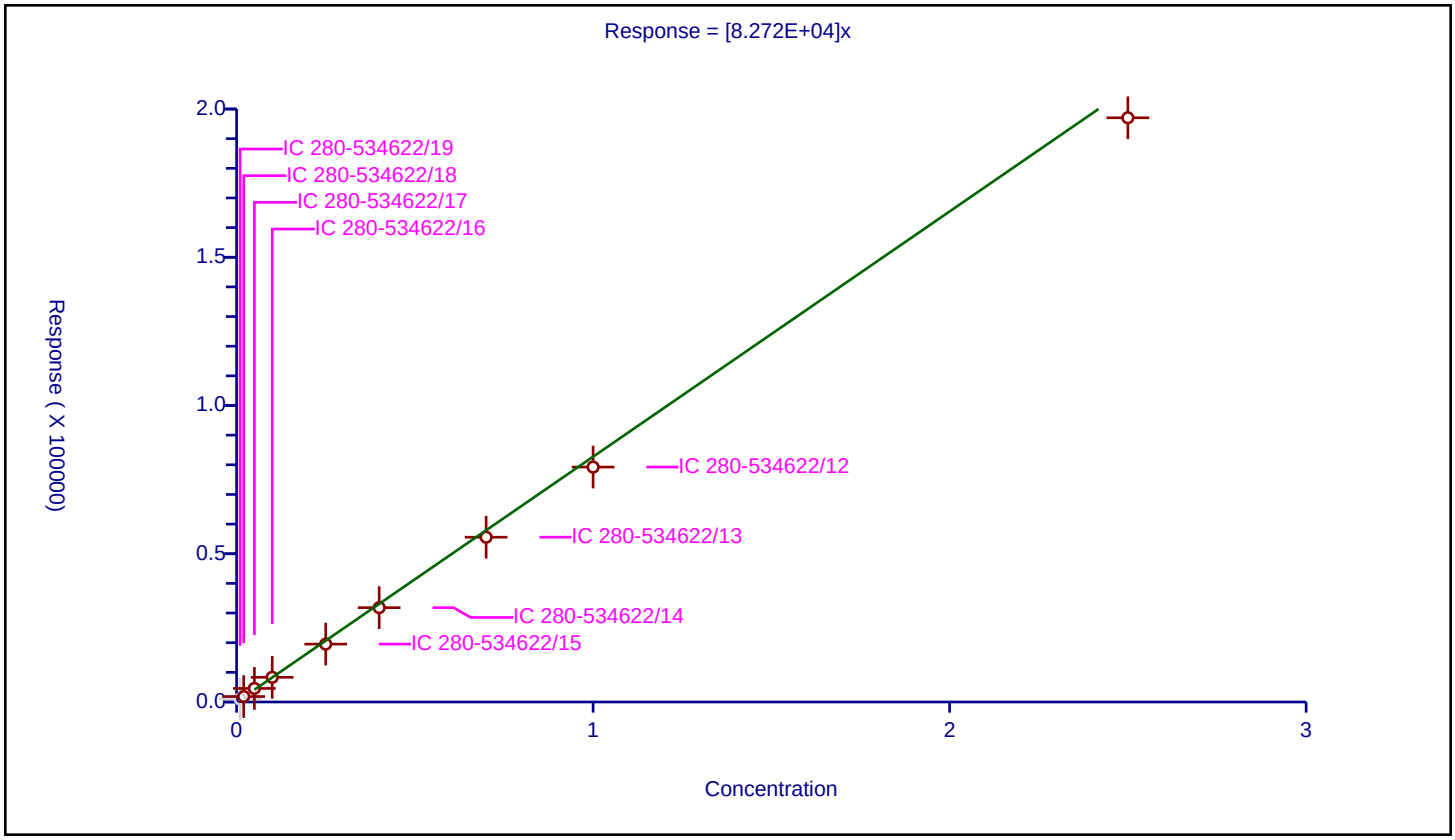
Curve Coefficients

Intercept:	0
Slope:	8.272E+04

Error Coefficients

Standard Error:	4070
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01	1003.0			100300.0	N
2	IC 280-534622/18	0.02	1840.0			92000.0	Y
3	IC 280-534622/17	0.05	4575.0			91500.0	Y
4	IC 280-534622/16	0.1	8317.0			83170.0	Y
5	IC 280-534622/15	0.25	19525.0			78100.0	Y
6	IC 280-534622/14	0.4	31820.0			79550.0	Y
7	IC 280-534622/13	0.7	55582.0			79402.857143	Y
8	IC 280-534622/12	1.0	79230.0			79230.0	Y
9	IC 280-534622/11	2.5	197040.0			78816.0	Y



Calibration / 1,2-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

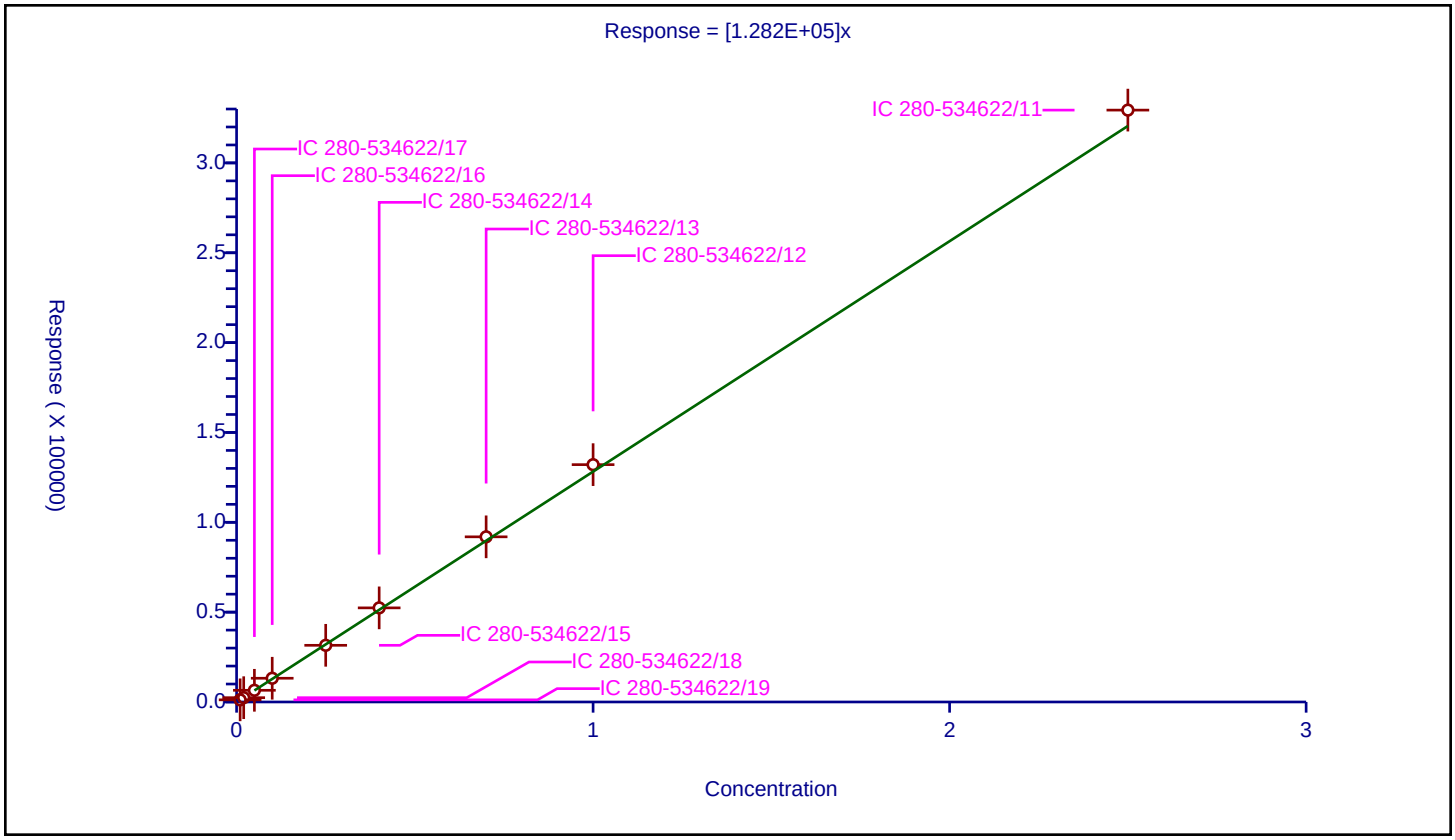
Curve Coefficients

Intercept:	0
Slope:	1.282E+05

Error Coefficients

Standard Error:	3530
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01	1195.0			119500.0	Y
2	IC 280-534622/18	0.02	2399.0			119950.0	Y
3	IC 280-534622/17	0.05	6504.0			130080.0	Y
4	IC 280-534622/16	0.1	13218.0			132180.0	Y
5	IC 280-534622/15	0.25	31539.0			126156.0	Y
6	IC 280-534622/14	0.4	52377.0			130942.5	Y
7	IC 280-534622/13	0.7	91915.0			131307.142857	Y
8	IC 280-534622/12	1.0	132080.0			132080.0	Y
9	IC 280-534622/11	2.5	329398.0			131759.2	Y



Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

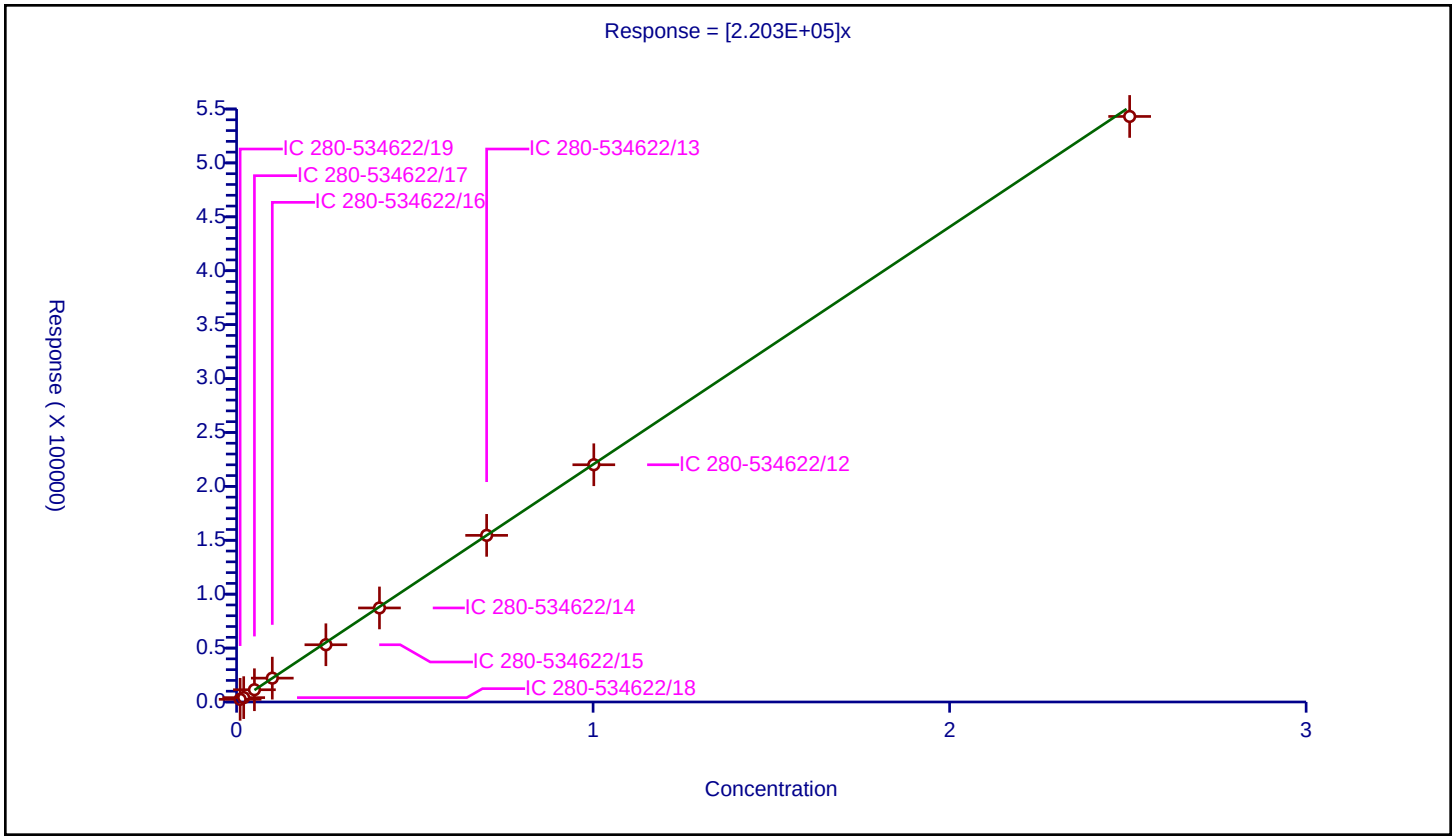
Curve Coefficients

Intercept:	0
Slope:	2.203E+05

Error Coefficients

Standard Error:	3230
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01002	2481.0			247604.790419	Y
2	IC 280-534622/18	0.02004	4038.0			201497.005988	Y
3	IC 280-534622/17	0.0501	11361.0			226766.467066	Y
4	IC 280-534622/16	0.1002	22114.0			220698.602794	Y
5	IC 280-534622/15	0.2505	53082.0			211904.191617	Y
6	IC 280-534622/14	0.4008	87233.0			217647.205589	Y
7	IC 280-534622/13	0.7014	154539.0			220329.341317	Y
8	IC 280-534622/12	1.002	220037.0			219597.804391	Y
9	IC 280-534622/11	2.505	543111.0			216810.778443	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

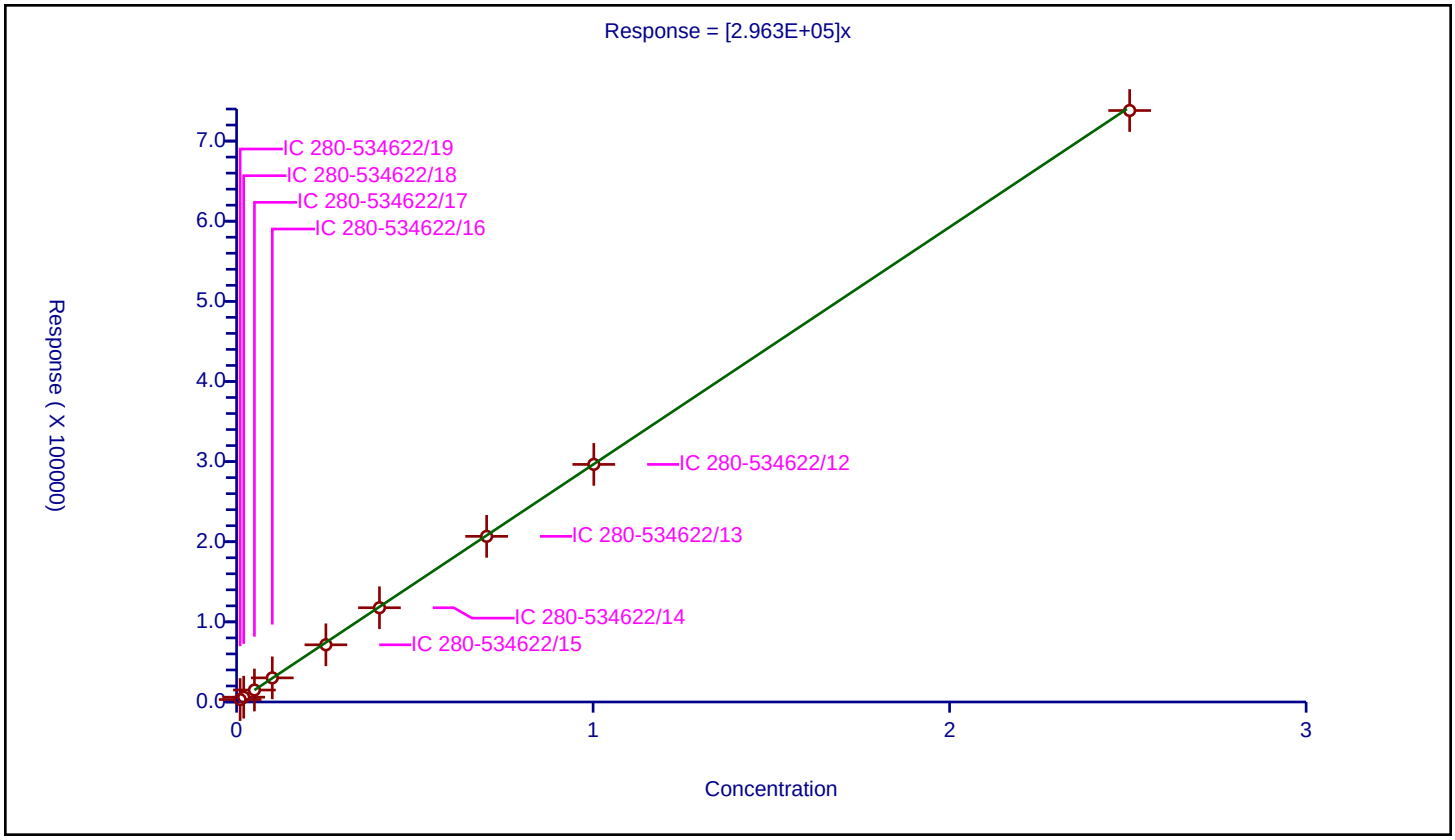
Curve Coefficients

Intercept:	0
Slope:	2.963E+05

Error Coefficients

Standard Error:	1890
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01002	3052.0			304590.818363	Y
2	IC 280-534622/18	0.02004	6019.0			300349.301397	Y
3	IC 280-534622/17	0.0501	14927.0			297944.111776	Y
4	IC 280-534622/16	0.1002	30099.0			300389.221557	Y
5	IC 280-534622/15	0.2505	71373.0			284922.155689	Y
6	IC 280-534622/14	0.4008	117621.0			293465.568862	Y
7	IC 280-534622/13	0.7014	206721.0			294726.261762	Y
8	IC 280-534622/12	1.002	296509.0			295917.165669	Y
9	IC 280-534622/11	2.505	738121.0			294659.081836	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

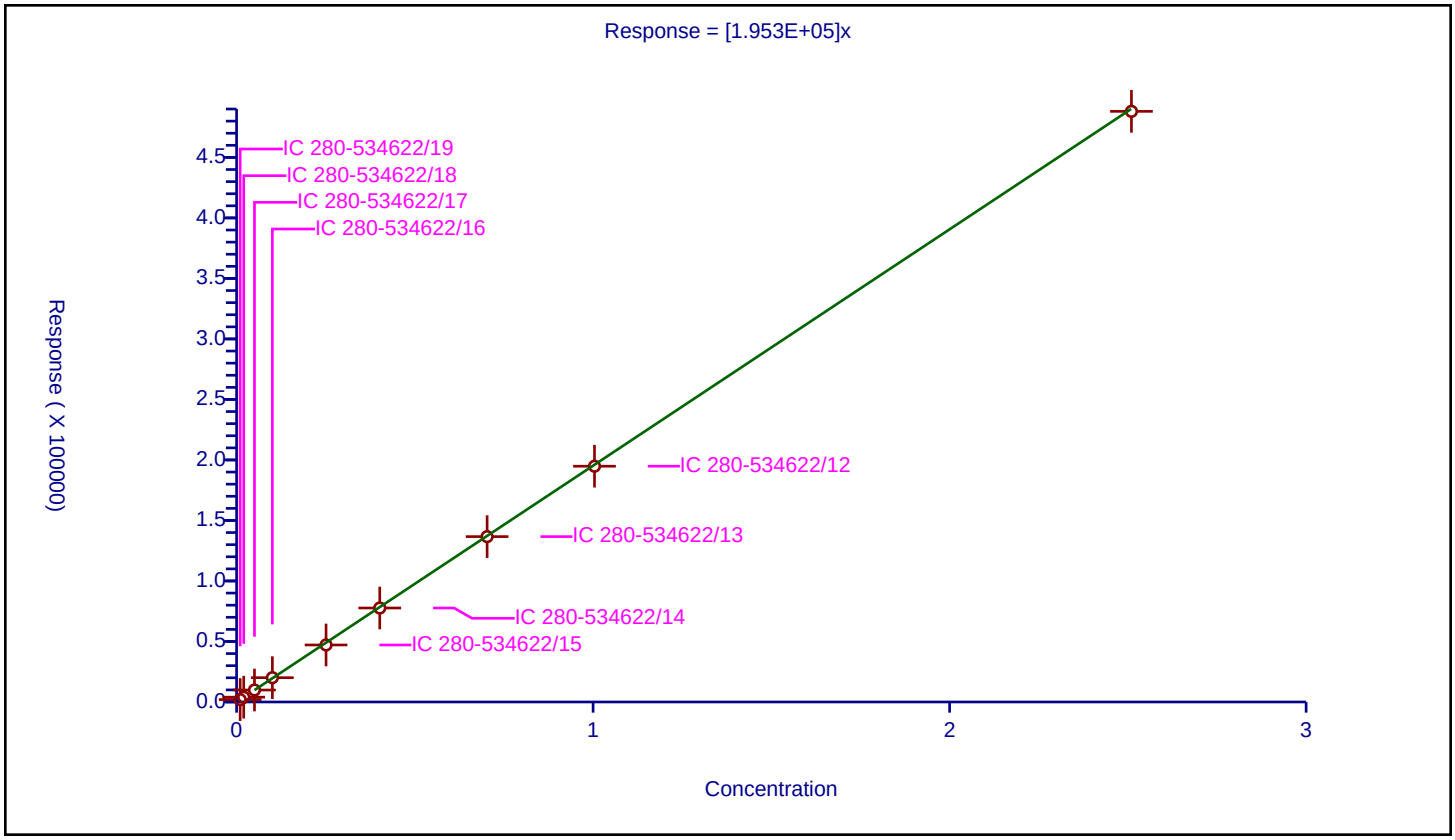
Curve Coefficients

Intercept:	0
Slope:	1.953E+05

Error Coefficients

Standard Error:	1160
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01004	1995.0			198705.179283	Y
2	IC 280-534622/18	0.02008	3972.0			197808.76494	Y
3	IC 280-534622/17	0.0502	9892.0			197051.792829	Y
4	IC 280-534622/16	0.1004	20078.0			199980.079681	Y
5	IC 280-534622/15	0.251	47122.0			187737.051793	Y
6	IC 280-534622/14	0.4016	77656.0			193366.533865	Y
7	IC 280-534622/13	0.7028	136648.0			194433.693796	Y
8	IC 280-534622/12	1.004	194820.0			194043.824701	Y
9	IC 280-534622/11	2.51	488061.0			194446.613546	Y



Calibration / Tetryl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

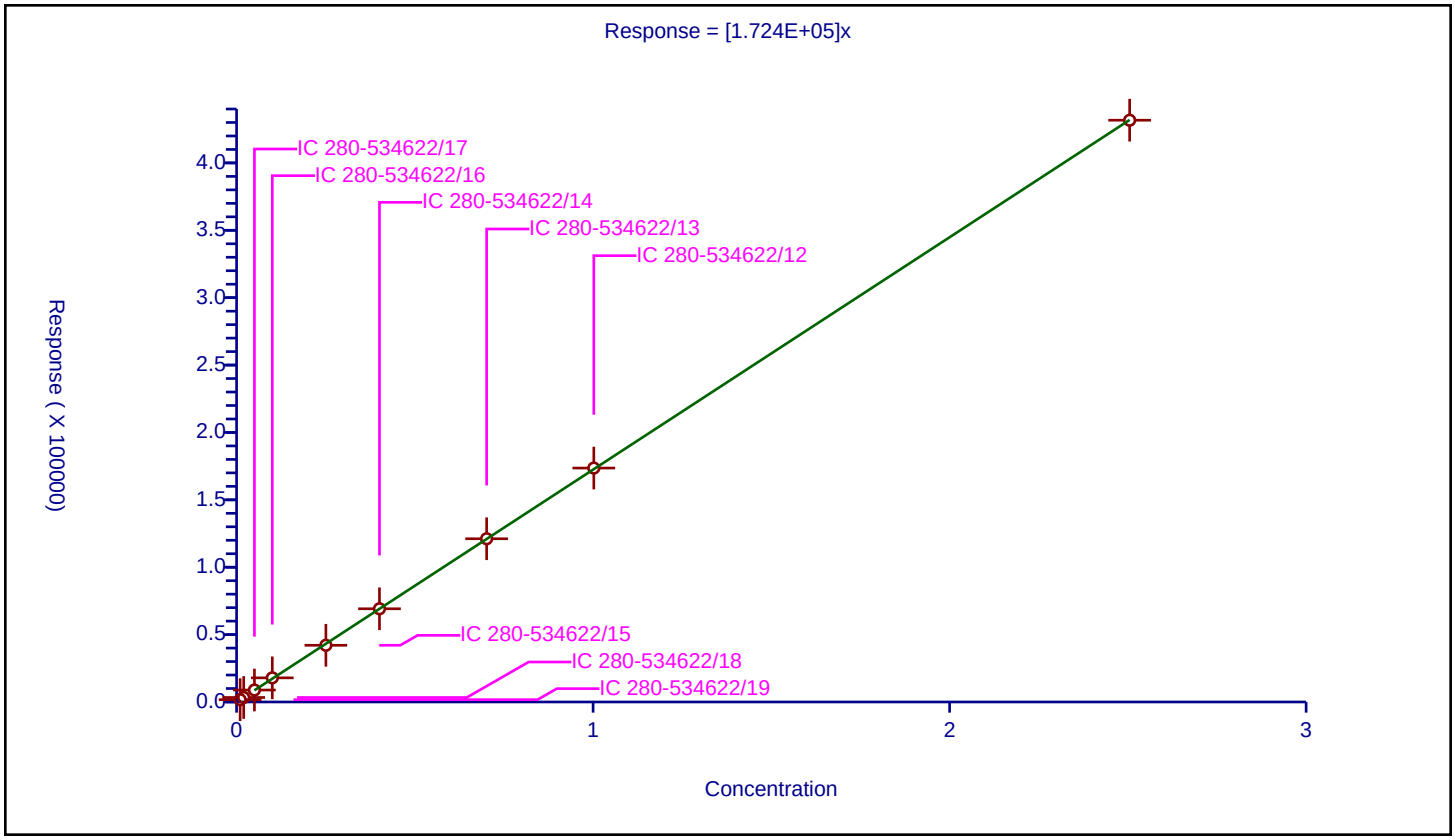
Curve Coefficients

Intercept:	0
Slope:	1.724E+05

Error Coefficients

Standard Error:	557
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01002	1712.0			170858.283433	Y
2	IC 280-534622/18	0.02004	3331.0			166217.56487	Y
3	IC 280-534622/17	0.0501	8870.0			177045.908184	Y
4	IC 280-534622/16	0.1002	17920.0			178842.315369	Y
5	IC 280-534622/15	0.2505	42079.0			167980.03992	Y
6	IC 280-534622/14	0.4008	69168.0			172574.850299	Y
7	IC 280-534622/13	0.7014	121126.0			172691.759338	Y
8	IC 280-534622/12	1.002	173586.0			173239.520958	Y
9	IC 280-534622/11	2.505	431686.0			172329.740519	Y



Calibration / Nitroglycerin

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

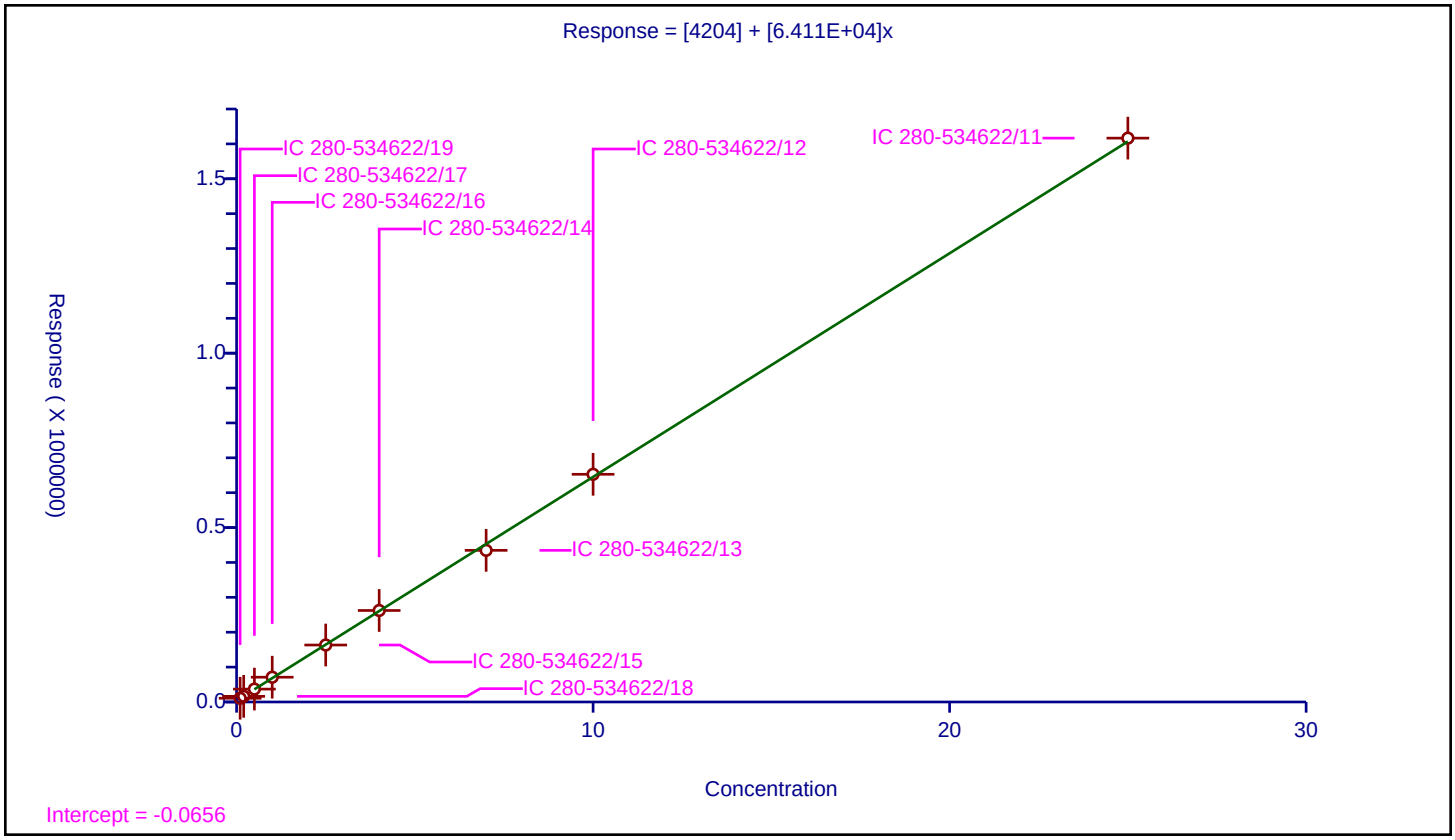
Curve Coefficients

Intercept:	4204
Slope:	6.411E+04

Error Coefficients

Standard Error:	8390
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.1	10778.0			107780.0	Y
2	IC 280-534622/18	0.2	16162.0			80810.0	Y
3	IC 280-534622/17	0.5	36983.0			73966.0	Y
4	IC 280-534622/16	1.0	71053.0			71053.0	Y
5	IC 280-534622/15	2.5	163334.0			65333.6	Y
6	IC 280-534622/14	4.0	262320.0			65580.0	Y
7	IC 280-534622/13	7.0	434747.0			62106.714286	Y
8	IC 280-534622/12	10.0	652752.0			65275.2	Y
9	IC 280-534622/11	25.0	1616536.0			64661.44	Y



Calibration / 2,4,6-Trinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

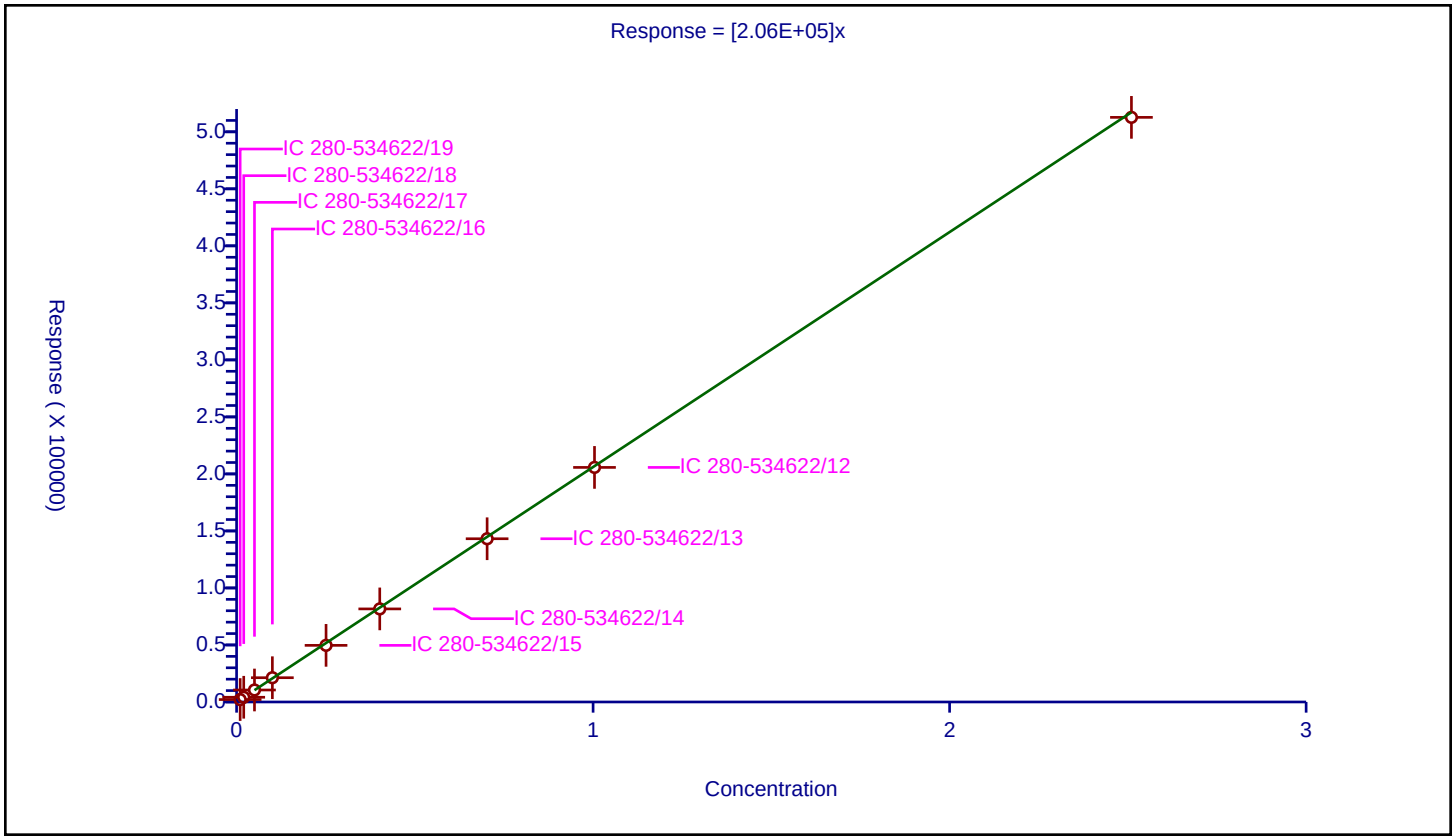
Curve Coefficients

Intercept:	0
Slope:	2.06E+05

Error Coefficients

Standard Error:	1930
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01004	2128.0			211952.191235	Y
2	IC 280-534622/18	0.02008	4156.0			206972.111554	Y
3	IC 280-534622/17	0.0502	10514.0			209442.231076	Y
4	IC 280-534622/16	0.1004	21286.0			212011.952191	Y
5	IC 280-534622/15	0.251	49667.0			197876.494024	Y
6	IC 280-534622/14	0.4016	81630.0			203261.952191	Y
7	IC 280-534622/13	0.7028	143142.0			203673.875925	Y
8	IC 280-534622/12	1.004	205715.0			204895.418327	Y
9	IC 280-534622/11	2.51	512679.0			204254.581673	Y



Calibration / 4-Amino-2,6-dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

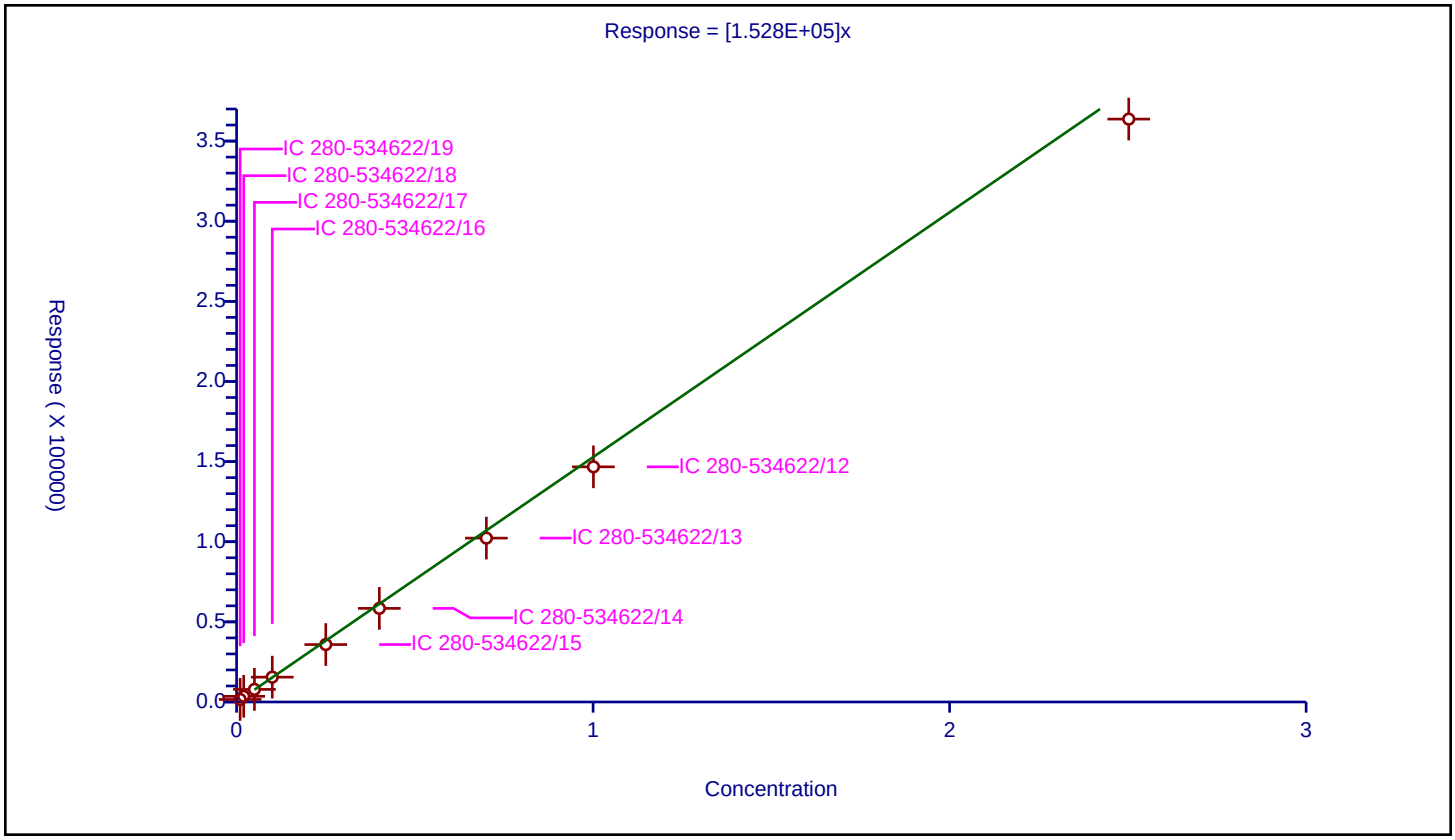
Curve Coefficients

Intercept:	0
Slope:	1.528E+05

Error Coefficients

Standard Error:	7250
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01001	1596.0			159440.559441	Y
2	IC 280-534622/18	0.02002	3532.0			176423.576424	Y
3	IC 280-534622/17	0.05005	7868.0			157202.797203	Y
4	IC 280-534622/16	0.1001	15505.0			154895.104895	Y
5	IC 280-534622/15	0.25025	35838.0			143208.791209	Y
6	IC 280-534622/14	0.4004	58412.0			145884.115884	Y
7	IC 280-534622/13	0.7007	102258.0			145936.920223	Y
8	IC 280-534622/12	1.001	146728.0			146581.418581	Y
9	IC 280-534622/11	2.5025	363710.0			145338.661339	Y



Calibration / 2-Amino-4,6-dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

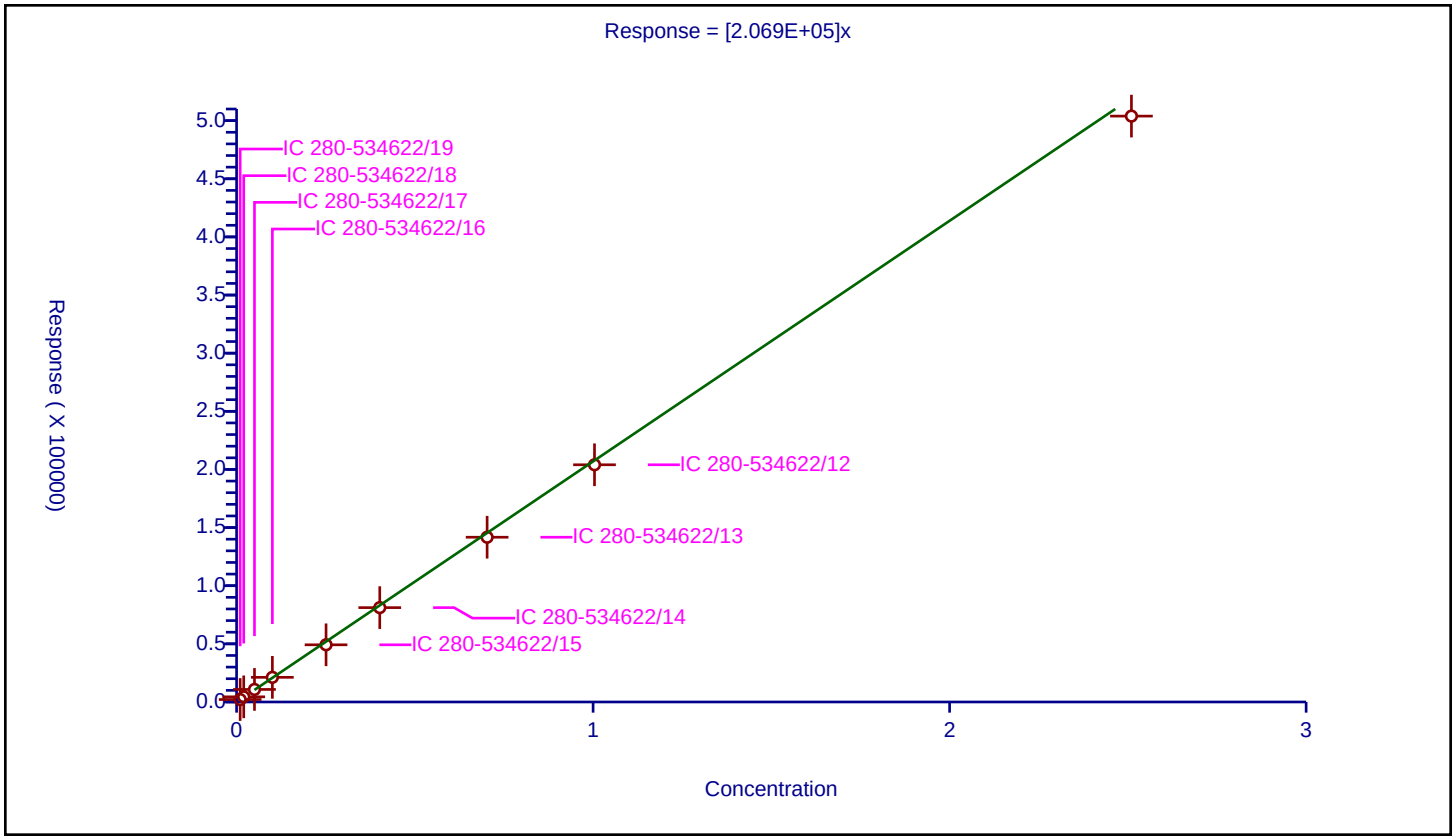
Curve Coefficients

Intercept:	0
Slope:	2.069E+05

Error Coefficients

Standard Error:	5900
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01004	2126.0			211752.988048	Y
2	IC 280-534622/18	0.02008	4433.0			220766.932271	Y
3	IC 280-534622/17	0.0502	10789.0			214920.318725	Y
4	IC 280-534622/16	0.1004	21203.0			211185.258964	Y
5	IC 280-534622/15	0.251	49194.0			195992.031873	Y
6	IC 280-534622/14	0.4016	81166.0			202106.573705	Y
7	IC 280-534622/13	0.7028	141712.0			201639.157655	Y
8	IC 280-534622/12	1.004	204025.0			203212.151394	Y
9	IC 280-534622/11	2.51	503909.0			200760.557769	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

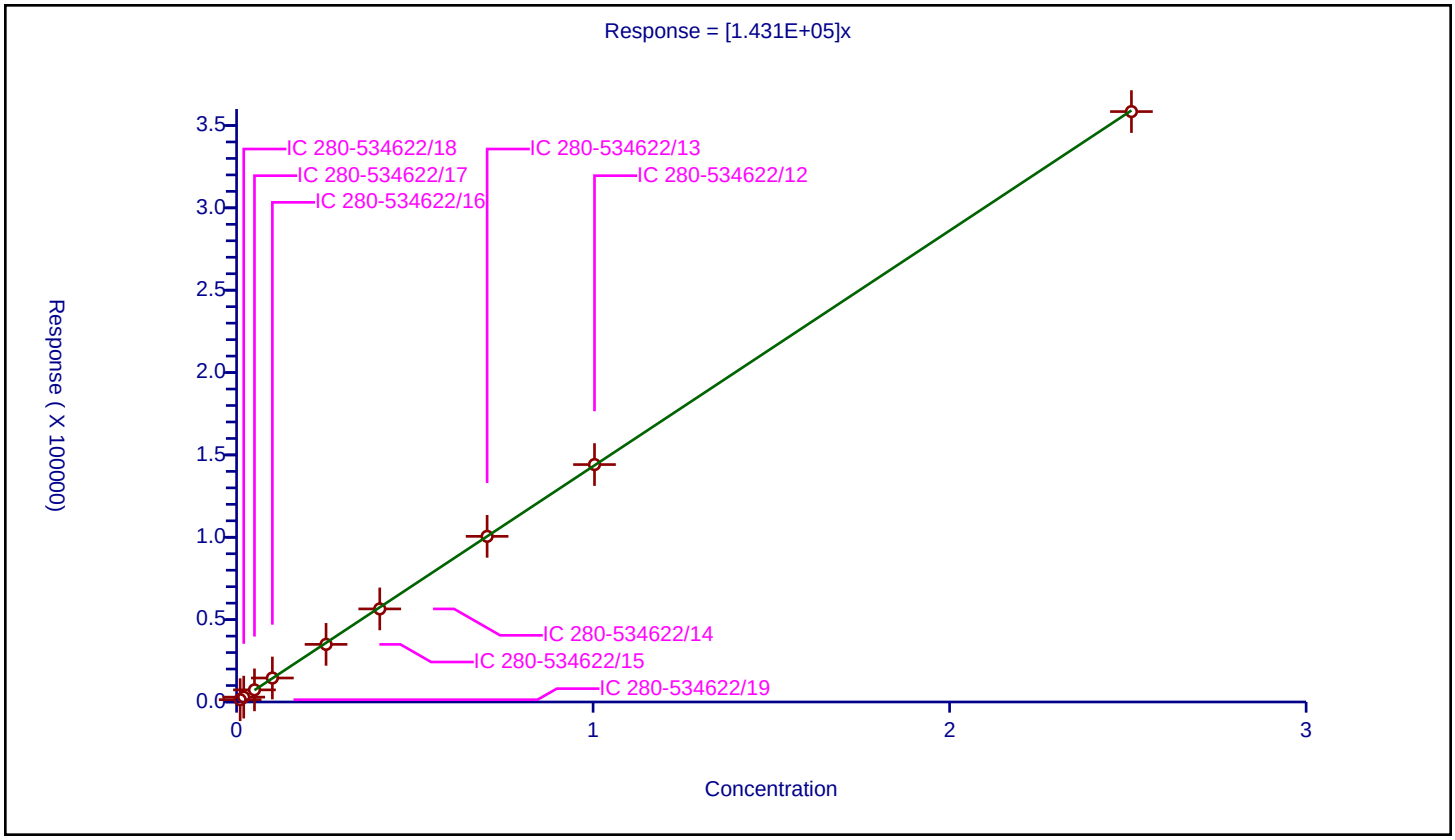
Curve Coefficients

Intercept:	0
Slope:	1.431E+05

Error Coefficients

Standard Error:	567
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01004	1404.0			139840.63745	Y
2	IC 280-534622/18	0.02008	2947.0			146762.948207	Y
3	IC 280-534622/17	0.0502	7360.0			146613.545817	Y
4	IC 280-534622/16	0.1004	14557.0			144990.039841	Y
5	IC 280-534622/15	0.251	34973.0			139334.661355	Y
6	IC 280-534622/14	0.4016	56504.0			140697.211155	Y
7	IC 280-534622/13	0.7028	100565.0			143091.918042	Y
8	IC 280-534622/12	1.004	144143.0			143568.7251	Y
9	IC 280-534622/11	2.51	358451.0			142809.163347	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

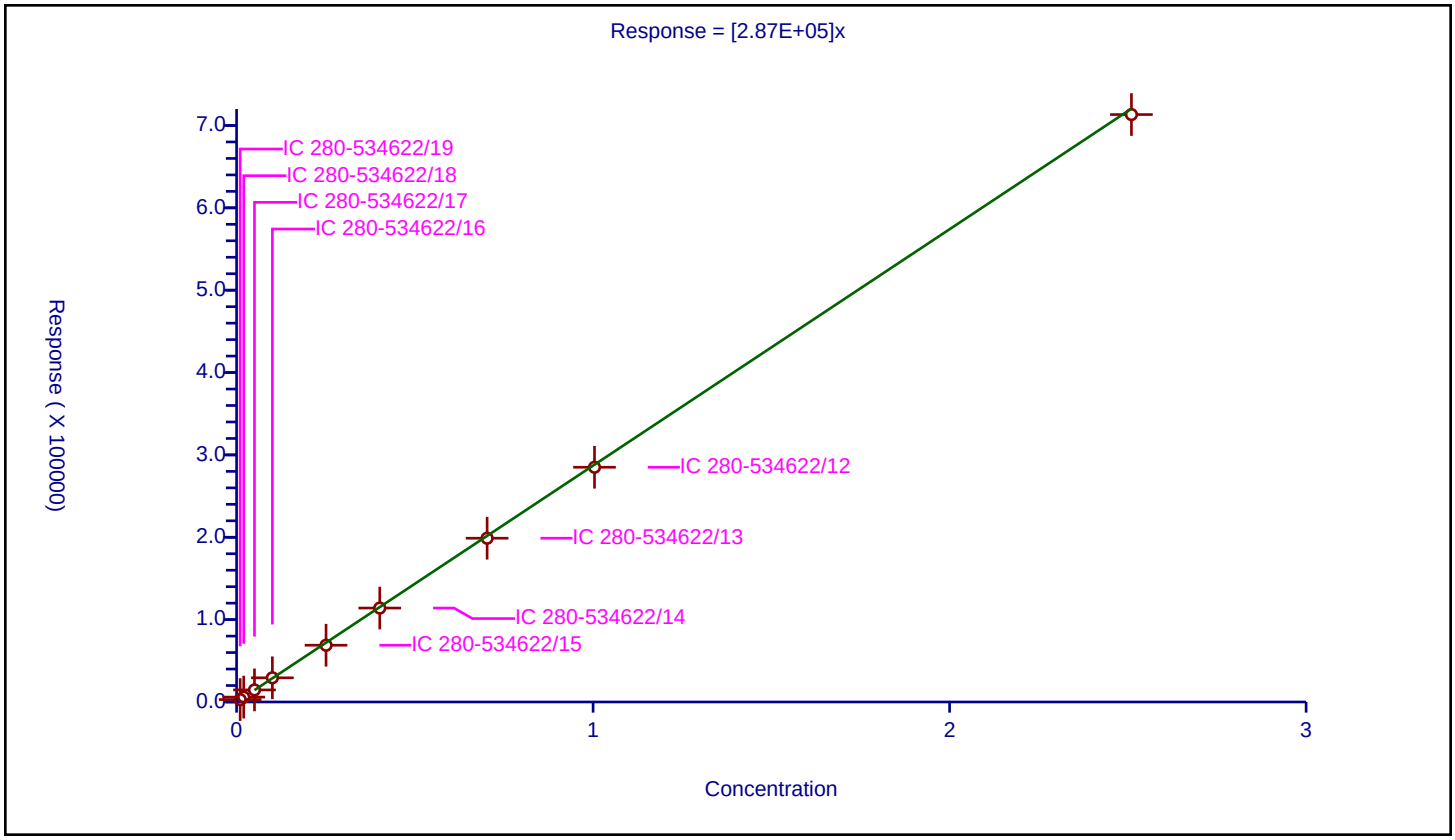
Curve Coefficients

Intercept:	0
Slope:	2.87E+05

Error Coefficients

Standard Error:	3180
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01004	2944.0			293227.091633	Y
2	IC 280-534622/18	0.02008	5945.0			296065.737052	Y
3	IC 280-534622/17	0.0502	14647.0			291772.908367	Y
4	IC 280-534622/16	0.1004	29362.0			292450.199203	Y
5	IC 280-534622/15	0.251	68930.0			274621.513944	Y
6	IC 280-534622/14	0.4016	114050.0			283989.043825	Y
7	IC 280-534622/13	0.7028	198852.0			282942.515652	Y
8	IC 280-534622/12	1.004	285012.0			283876.494024	Y
9	IC 280-534622/11	2.51	713254.0			284164.940239	Y



Calibration / o-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

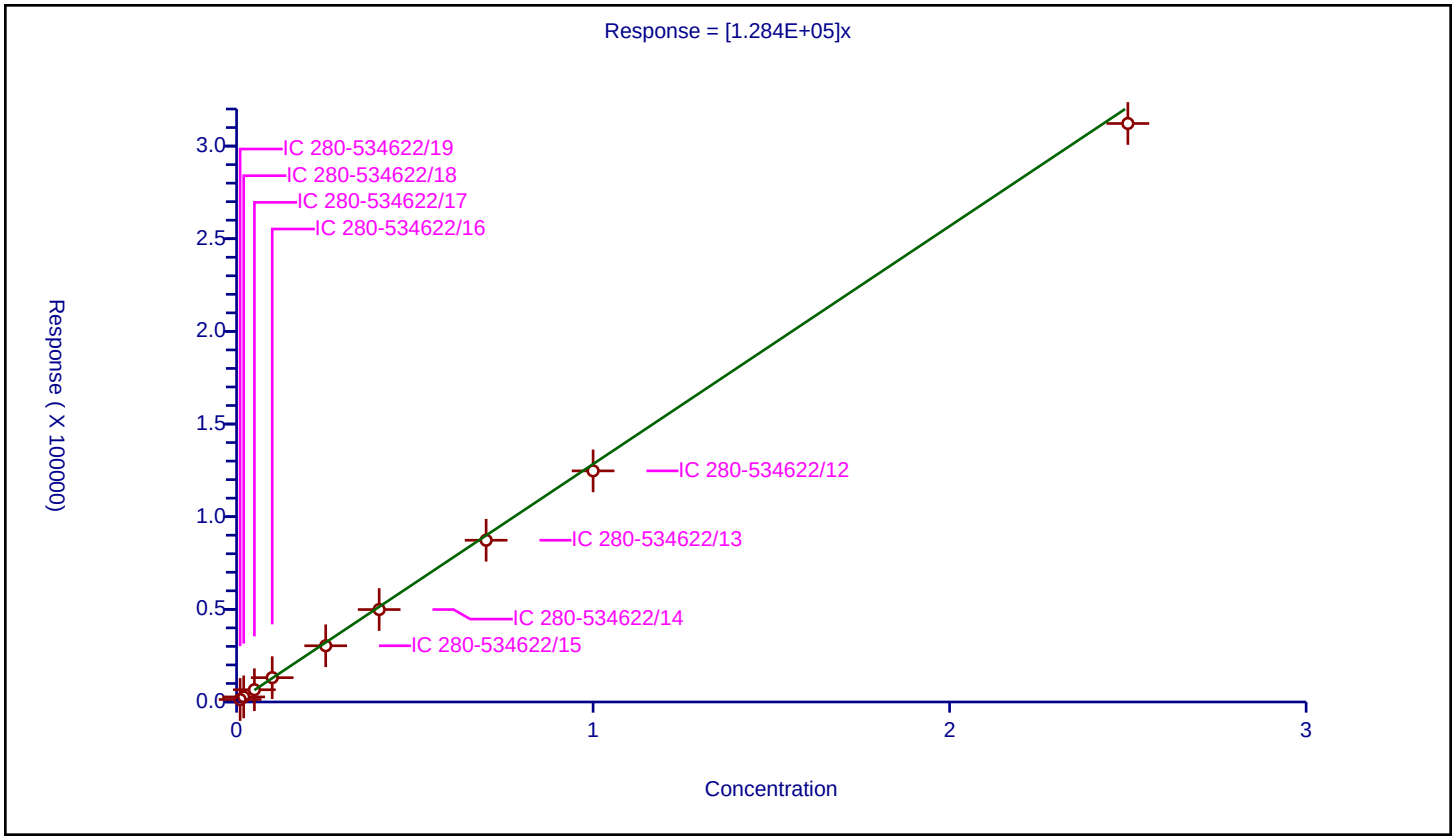
Curve Coefficients

Intercept:	0
Slope:	1.284E+05

Error Coefficients

Standard Error:	3580
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01	1346.0			134600.0	Y
2	IC 280-534622/18	0.02	2737.0			136850.0	Y
3	IC 280-534622/17	0.05	6616.0			132320.0	Y
4	IC 280-534622/16	0.1	13138.0			131380.0	Y
5	IC 280-534622/15	0.25	30342.0			121368.0	Y
6	IC 280-534622/14	0.4	49881.0			124702.5	Y
7	IC 280-534622/13	0.7	87294.0			124705.714286	Y
8	IC 280-534622/12	1.0	124724.0			124724.0	Y
9	IC 280-534622/11	2.5	312191.0			124876.4	Y



Calibration / p-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

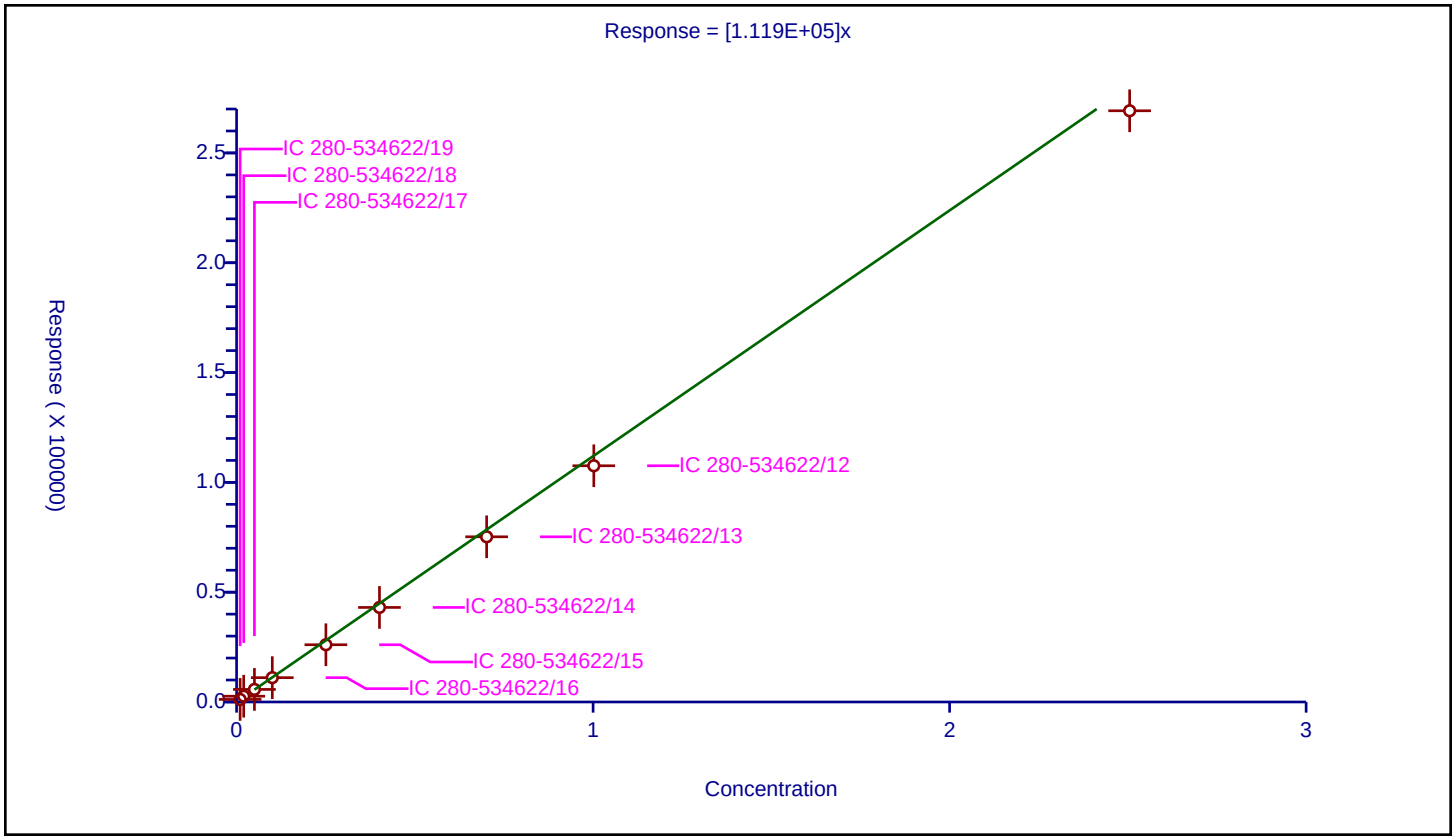
Curve Coefficients

Intercept:	0
Slope:	1.119E+05

Error Coefficients

Standard Error:	4520
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01002	1177.0			117465.06986	Y
2	IC 280-534622/18	0.02004	2633.0			131387.225549	Y
3	IC 280-534622/17	0.0501	5724.0			114251.497006	Y
4	IC 280-534622/16	0.1002	11083.0			110608.782435	Y
5	IC 280-534622/15	0.2505	26060.0			104031.936128	Y
6	IC 280-534622/14	0.4008	43055.0			107422.654691	Y
7	IC 280-534622/13	0.7014	75212.0			107231.251782	Y
8	IC 280-534622/12	1.002	107567.0			107352.295409	Y
9	IC 280-534622/11	2.505	269197.0			107463.872255	Y



Calibration / m-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

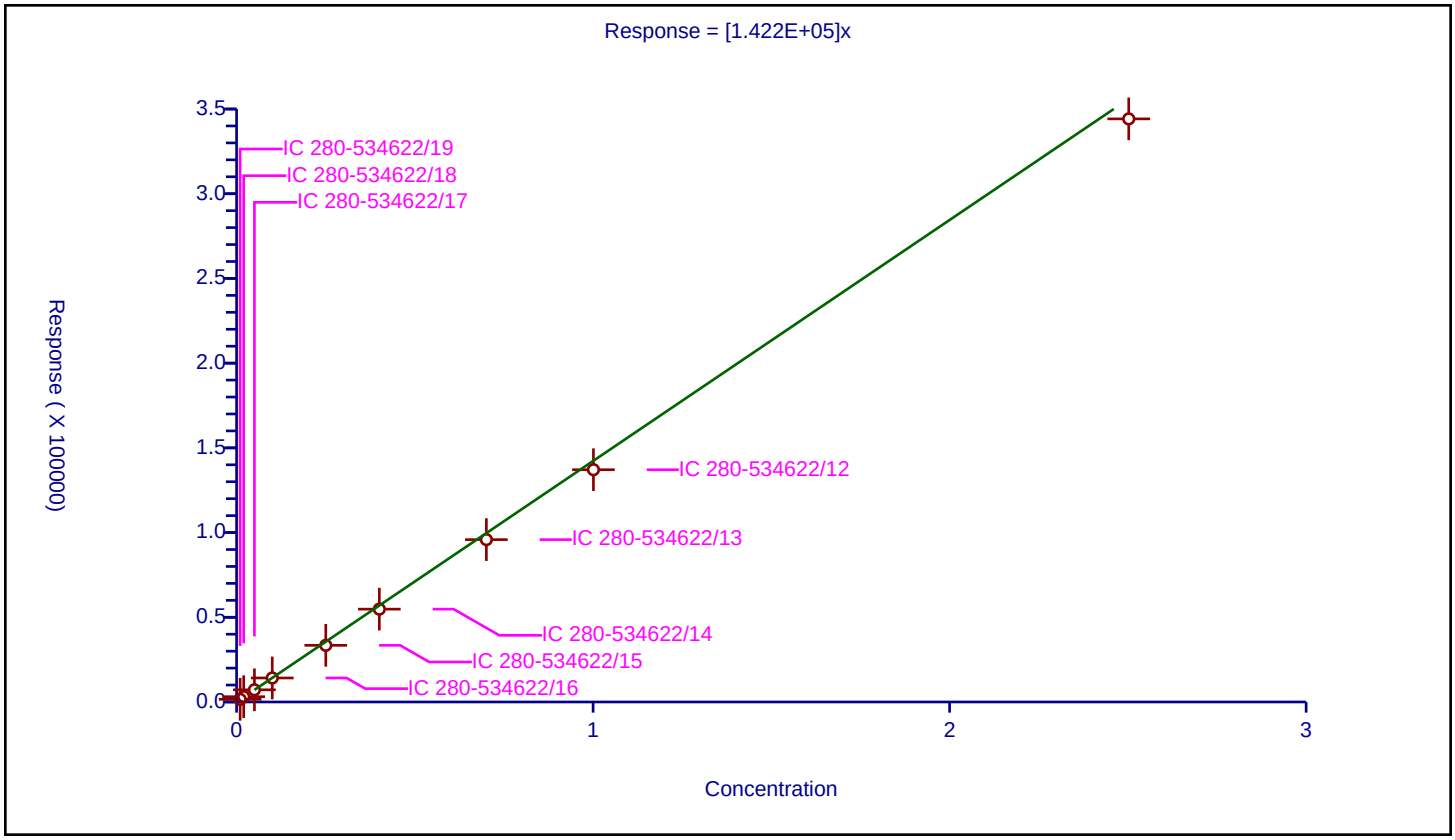
Curve Coefficients

Intercept:	0
Slope:	1.422E+05

Error Coefficients

Standard Error:	4890
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.01001	1575.0			157342.657343	Y
2	IC 280-534622/18	0.02002	3121.0			155894.105894	Y
3	IC 280-534622/17	0.05005	7187.0			143596.403596	Y
4	IC 280-534622/16	0.1001	14179.0			141648.351648	Y
5	IC 280-534622/15	0.25025	33440.0			133626.373626	Y
6	IC 280-534622/14	0.4004	54796.0			136853.146853	Y
7	IC 280-534622/13	0.7007	95835.0			136770.372485	Y
8	IC 280-534622/12	1.001	137092.0			136955.044955	Y
9	IC 280-534622/11	2.5025	344169.0			137530.06993	Y



Calibration / PETN

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

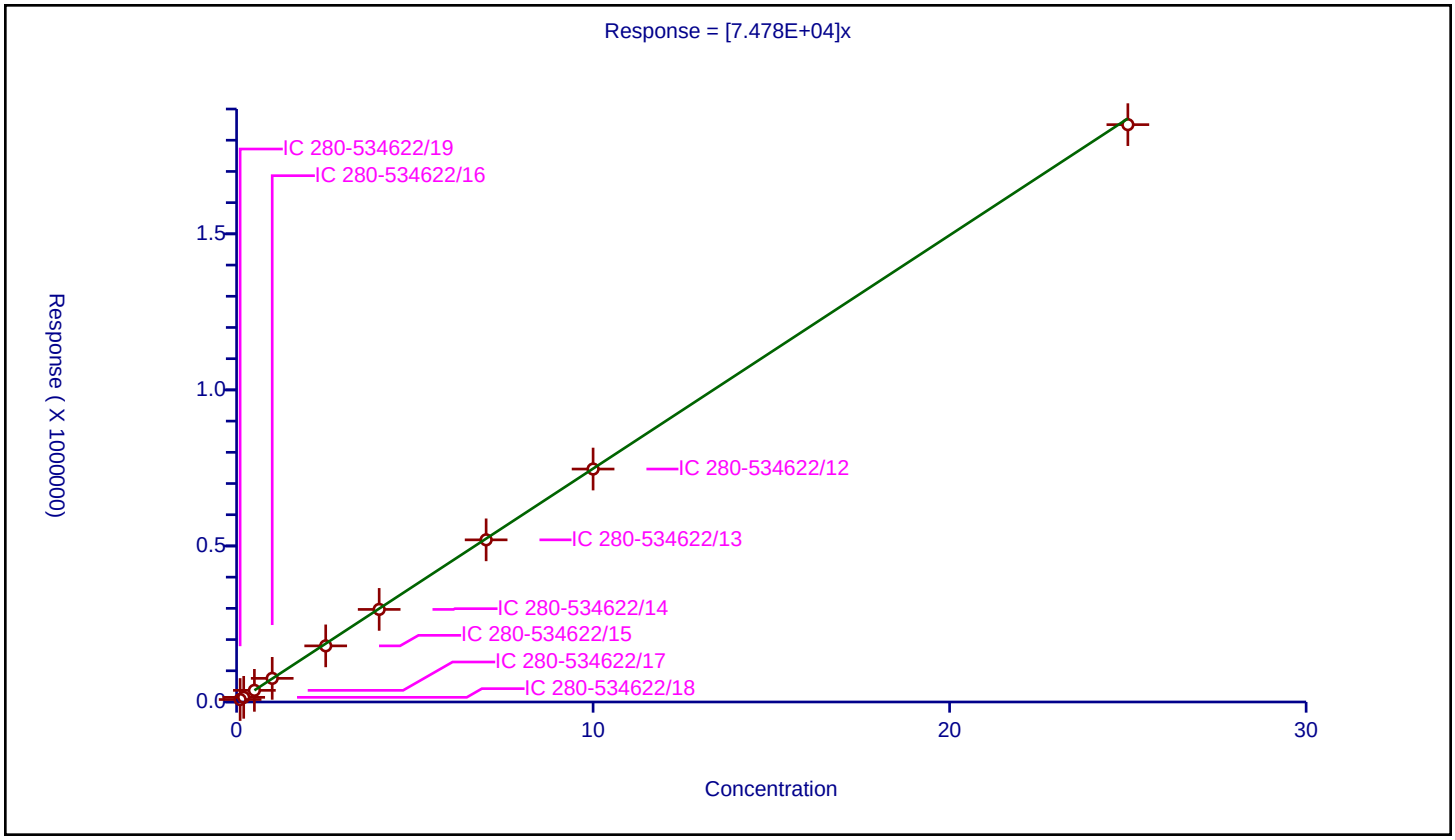
Curve Coefficients

Intercept:	0
Slope:	7.478E+04

Error Coefficients

Standard Error:	7550
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534622/19	0.1	7901.0			79010.0	Y
2	IC 280-534622/18	0.2	14944.0			74720.0	Y
3	IC 280-534622/17	0.5	37293.0			74586.0	Y
4	IC 280-534622/16	1.0	75747.0			75747.0	Y
5	IC 280-534622/15	2.5	179819.0			71927.6	Y
6	IC 280-534622/14	4.0	296622.0			74155.5	Y
7	IC 280-534622/13	7.0	519589.0			74227.0	Y
8	IC 280-534622/12	10.0	746366.0			74636.6	Y
9	IC 280-534622/11	25.0	1849935.0			73997.4	Y



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:54 Calibration End Date: 05/01/2021 23:35 Calibration ID: 53146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534620/18	018-1301.D
Level 2	IC 280-534620/17	017-1201.D
Level 3	IC 280-534620/16	016-1101.D
Level 4	IC 280-534620/15	015-1001.D
Level 5	IC 280-534620/14	014-0901.D
Level 6	IC 280-534620/13	013-0801.D
Level 7	IC 280-534620/12	012-0701.D
Level 8	IC 280-534620/11	011-0601.D
Level 9	IC 280-534620/10	010-0501.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
HMX	6.724	6.720	6.734	6.718	6.713	6.705	6.698	6.691	6.635		6.563 - 6.863	6.704
Picric acid	8.004	7.980	7.987	7.958	7.933	7.911	7.878	7.845	7.801		7.783 - 8.083	7.922
RDX	+++++	8.926	8.934	8.912	8.906	8.898	8.891	8.878	8.801		8.756 - 9.056	8.893
Nitrobenzene	+++++	11.973	11.994	11.971	11.973	11.951	11.951	11.924	11.854		11.823 - 12.123	11.949
1,3-Dinitrobenzene	15.524	15.533	15.547	15.518	15.519	15.491	15.504	15.471	15.421		15.369 - 15.669	15.503
Nitroglycerin	+++++	15.940	15.961	15.931	15.939	15.905	15.924	15.891	15.861		15.789 - 16.089	15.919
2-Nitrotoluene	16.751	16.740	16.781	16.751	16.759	16.725	16.744	16.704	16.668		16.609 - 16.909	16.736
4-Nitrotoluene	17.031	17.060	17.074	17.038	17.046	17.011	17.031	16.991	16.928		16.896 - 17.196	17.023
4-Amino-2,6-dinitrotoluene	17.511	17.520	17.541	17.511	17.526	17.485	17.504	17.458	17.421		17.376 - 17.676	17.497
3-Nitrotoluene	17.978	18.033	18.047	18.011	18.026	17.985	18.011	17.964	17.928		17.876 - 18.176	17.998
2-Amino-4,6-dinitrotoluene	18.418	18.426	18.441	18.418	18.426	18.385	18.411	18.364	18.321		18.276 - 18.576	18.401
1,3,5-Trinitrobenzene	18.904	18.946	18.954	18.931	18.939	18.905	18.924	18.884	18.861		18.789 - 19.089	18.916
2,6-Dinitrotoluene	20.191	20.200	20.201	20.185	20.199	20.158	20.184	20.138	20.114		20.049 - 20.349	20.174
2,4-Dinitrotoluene	20.644	20.666	20.674	20.652	20.666	20.625	20.651	20.605	20.581		20.516 - 20.816	20.640
Tetryl	24.271	24.306	24.287	24.298	24.313	24.258	24.304	24.245	24.248		24.163 - 24.463	24.281
2,4,6-Trinitrotoluene	25.258	25.280	25.254	25.265	25.280	25.231	25.271	25.218	25.221		25.130 - 25.430	25.253
PETN	26.151	26.180	26.154	26.172	26.186	26.145	26.184	26.138	26.155		26.036 - 26.336	26.163
1,2-Dinitrobenzene	+++++	13.093	13.114	13.091	13.093	13.065	13.071	13.044	12.988		12.943 - 13.243	13.070

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:54 Calibration End Date: 05/01/2021 23:35 Calibration ID: 53146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534620/18	018-1301.D
Level 2	IC 280-534620/17	017-1201.D
Level 3	IC 280-534620/16	016-1101.D
Level 4	IC 280-534620/15	015-1001.D
Level 5	IC 280-534620/14	014-0901.D
Level 6	IC 280-534620/13	013-0801.D
Level 7	IC 280-534620/12	012-0701.D
Level 8	IC 280-534620/11	011-0601.D
Level 9	IC 280-534620/10	010-0501.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	254300 158320 162626	214300 160223	175820 158743	168500 161798	Lin2	980.653662	158773.733							0.9990		0.9900
Picric acid	178900 152888 141385	163500 155475	171560 152839	163400 155884	Ave		159536.708				7.0		20.0			
RDX	+++++ 194424 195542	226650 195463	221320 195131	206610 199019	Ave		204269.866				6.3		20.0			
Nitrobenzene	+++++ 361594 374427	392829 363362	384582 365280	379333 375807	Ave		374651.498				2.9		20.0			
1,3-Dinitrobenzene	707086 560267 567860	619311 564242	581677 563124	586467 575968	Lin2	1373.03976	562951.690							1.0000		0.9900
Nitroglycerin	+++++ 124192 125256	141495 124522	130832 124706	130447 127389	Ave		128604.807				4.5		20.0			
2-Nitrotoluene	302200 232764 241861	257550 236045	247460 236947	245280 240595	Ave		248966.927				8.5		20.0			
4-Nitrotoluene	260279 204571 203894	240669 205292	214770 204907	211786 208512	Ave		217186.809				9.1		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:54 Calibration End Date: 05/01/2021 23:35 Calibration ID: 53146

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
4-Amino-2,6-dinitrotoluene	395005 273762 275790	313487 274451	295744 274119	287902 280086	Ave		296705.057				13.2		20.0			
3-Nitrotoluene	351349 259473 262003	296104 260060	278581 260578	271848 265537	Ave		278392.538				10.7		20.0			
2-Amino-4,6-dinitrotoluene	512749 386737 391743	453884 388349	420538 388045	407410 395660	Lin2	1254.00604	389849.211							1.0000		0.9900
1,3,5-Trinitrobenzene	710180 416543 413420	525948 413743	469182 414112	445050 423023	Lin2	2883.27310	409600.291							0.9990		0.9900
2,6-Dinitrotoluene	354084 263195 266888	300100 265070	280498 266340	276106 272867	Lin2	857.028820	264837.016							1.0000		0.9900
2,4-Dinitrotoluene	659263 534514 542026	609014 537398	565657 537324	556155 550069	Ave		565713.342				7.4		20.0			
Tetryl	523453 323337 324746	378393 322206	350758 323640	340798 328709	Lin2	1889.68945	317664.730							0.9970		0.9900
2,4,6-Trinitrotoluene	544721 373793 382269	425697 377761	386454 378660	385857 387552	Lin2	1580.45681	371636.737							0.9980		0.9900
PETN	156590 132124 133721	137180 132892	138340 134943	136676 137199	Ave		137740.388				5.4		20.0			
1,2-Dinitrobenzene	+++++ 252324 253320	314000 253120	276720 251686	266780 257324	Ave		265659.214				8.1		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:54 Calibration End Date: 05/01/2021 23:35 Calibration ID: 53146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534620/18	018-1301.D
Level 2	IC 280-534620/17	017-1201.D
Level 3	IC 280-534620/16	016-1101.D
Level 4	IC 280-534620/15	015-1001.D
Level 5	IC 280-534620/14	014-0901.D
Level 6	IC 280-534620/13	013-0801.D
Level 7	IC 280-534620/12	012-0701.D
Level 8	IC 280-534620/11	011-0601.D
Level 9	IC 280-534620/10	010-0501.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HMX	Lin2	2543 64089	4286 111120	8791 161798	16850 406565	39580	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	1789 62190	3270 106987	8578 155884	16340 353462	38222	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	+++++ 78185	4533 136592	11066 199019	20661 488855	48606	+++++ 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	+++++ 145926	7888 256719	19306 377310	38085 939811	90760	+++++ 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Lin2	7085 226148	12411 394975	29142 577120	58764 1422490	140347	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Ave	+++++ 498088	28299 872941	65416 1273886	130447 3131400	310480	+++++ 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
2-Nitrotoluene	Ave	3022 94418	5151 165863	12373 240595	24528 604653	58191	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Ave	2608 82281	4823 143722	10760 208929	21221 510755	51245	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Ave	3954 109890	6276 192075	14802 280366	28819 690165	68509	0.0100 0.400	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250
3-Nitrotoluene	Ave	3517 104128	5928 182587	13943 265803	27212 655662	64933	0.0100 0.400	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Lin2	5148 155961	9114 272718	21111 397243	40904 983275	97071	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
1,3,5-Trinitrobenzene	Lin2	7116 165828	10540 290458	23506 423869	44594 1035616	104344	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Lin2	3555	6026	14081	27721	66062	0.0100	0.0201	0.0502	0.100	0.251

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2021 18:54 Calibration End Date: 05/01/2021 23:35 Calibration ID: 53146

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
		106452	187184	273958	669889		0.402	0.703	1.00	2.51	
2,4-Dinitrotoluene	Ave	6619 215819	12229 377631	28396 552269	55838 1360486	134163	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
Tetryl	Lin2	5245 129140	7583 227001	17573 329366	34148 813489	80996	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
2,4,6-Trinitrotoluene	Lin2	5469 151709	8548 266122	19400 389102	38740 959496	93822	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
PETN	Ave	15659 531566	27436 944599	69170 1371986	136676 3343027	330309	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Ave	+++++ 101248	6280 176180	13836 257324	26678 633300	63081	+++++ 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend
Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\010-0501.D
Lims ID: IC INT/ADD 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 01-May-2021 18:54:50 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 9
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:11 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:40:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.061	4.126	-0.065	1092989	2.50	2.67	
2 2,4-diamino-6-nitrotoluene	1	4.635	4.653	-0.018	538473	2.50	2.25	
6 HMX	1	6.635	6.713	-0.078	406565	2.50	2.55	
5 2,4,6-Trinitrophenol	1	7.801	7.933	-0.132	353462	2.50	2.22	
8 RDX	1	8.801	8.906	-0.105	488855	2.50	2.39	
9 Nitrobenzene	1	11.854	11.973	-0.119	939811	2.51	2.51	
$ 10 1,2-Dinitrobenzene	1	12.988	13.093	-0.105	633300	2.50	2.38	
11 3,5-Dinitroaniline	1	14.868	14.979	-0.111	1143420	2.50	2.54	
12 1,3-Dinitrobenzene	1	15.421	15.519	-0.098	1422490	2.51	2.52	
13 Nitroglycerin	2	15.861	15.939	-0.078	3131400	25.0	24.3	
14 o-Nitrotoluene	1	16.668	16.759	-0.091	604653	2.50	2.43	
15 p-Nitrotoluene	1	16.928	17.046	-0.118	510755	2.51	2.35	
16 4-Amino-2,6-dinitrotoluene	1	17.421	17.526	-0.105	690165	2.50	2.33	
17 m-Nitrotoluene	1	17.928	18.026	-0.098	655662	2.50	2.36	
18 2-Amino-4,6-dinitrotoluene	1	18.321	18.426	-0.105	983275	2.51	2.52	
19 1,3,5-Trinitrobenzene	1	18.861	18.939	-0.078	1035616	2.51	2.52	
20 2,6-Dinitrotoluene	1	20.114	20.199	-0.085	669889	2.51	2.53	
21 2,4-Dinitrotoluene	1	20.581	20.666	-0.085	1360486	2.51	2.40	
22 Tetryl	1	24.248	24.313	-0.065	813489	2.51	2.55	
23 2,4,6-Trinitrotoluene	1	25.221	25.280	-0.059	959496	2.51	2.58	
24 PETN	2	26.155	26.186	-0.031	3343027	25.0	24.3	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

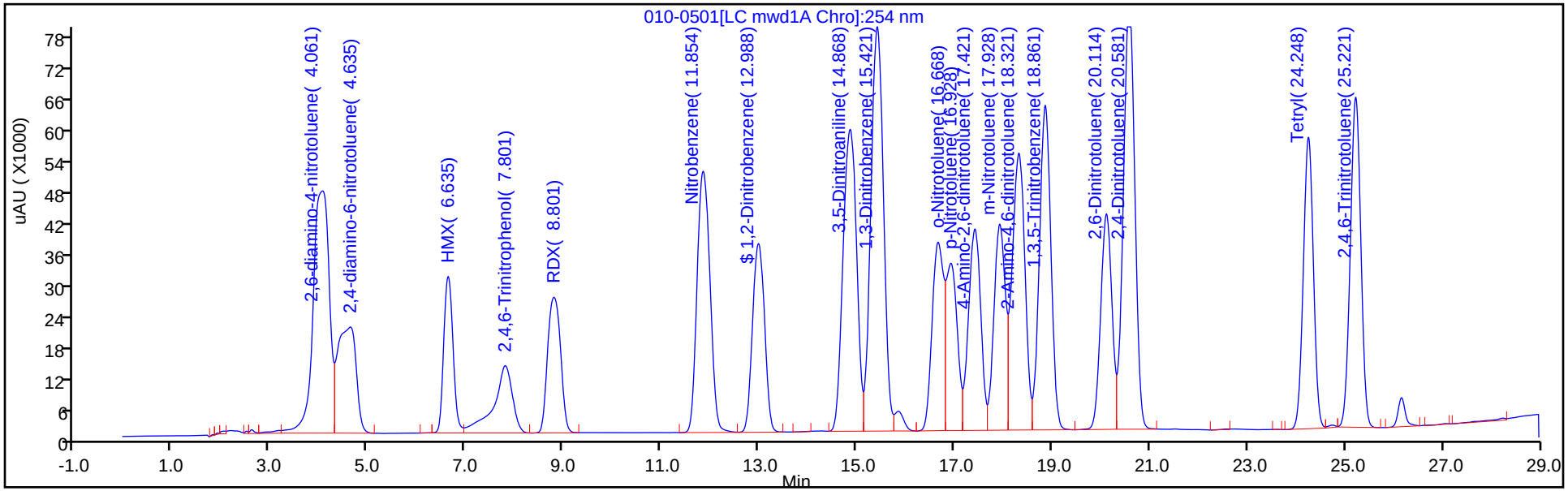
8330IntermStk_00067	Amount Added: 250.00	Units: uL
8330_ADDs_00027	Amount Added: 125.00	Units: uL

Report Date: 04-May-2021 13:43:11 Chrom Revision: 2.3 08-Apr-2021 17:17:48

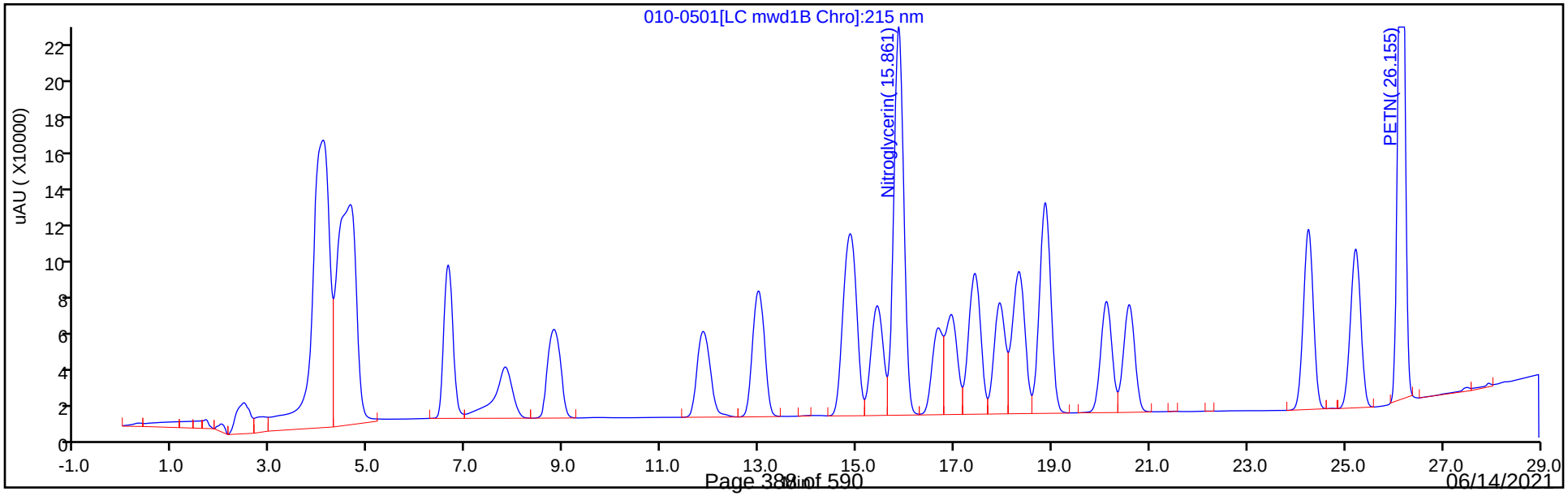
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\010-0501.D				
Injection Date:	01-May-2021 18:54:50	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 9			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

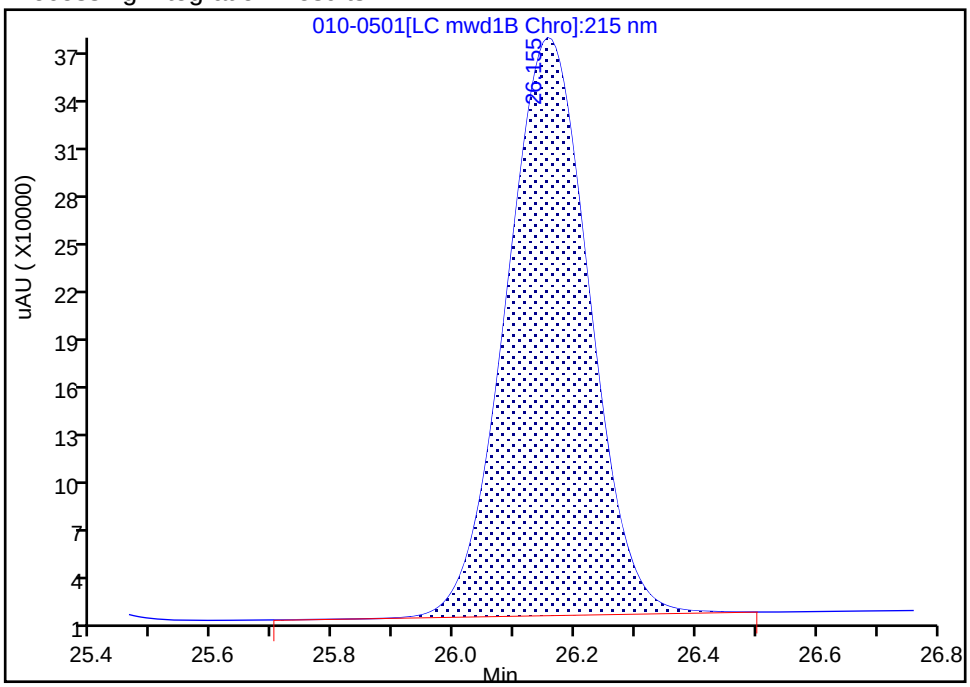
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\010-0501.D				
Injection Date:	01-May-2021 18:54:50	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 9				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

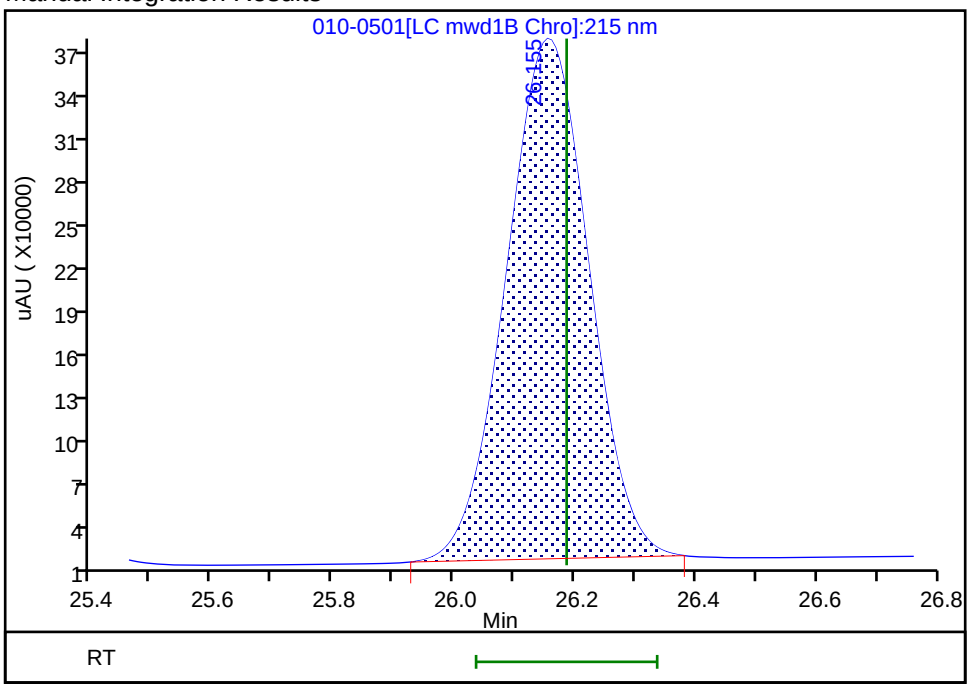
Processing Integration Results

RT: 26.15
Area: 3390696
Amount: 25.717777
Amount Units: ug/ml



Manual Integration Results

RT: 26.15
Area: 3343027
Amount: 24.270492
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:40:09

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\011-0601.D
Lims ID: IC INT/ADD 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 01-May-2021 19:29:53 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 8
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:11 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:40:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.085	4.126	-0.041	410324	1.00	1.00	
2 2,4-diamino-6-nitrotoluene	1	4.598	4.653	-0.055	250474	1.00	1.04	
6 HMX	1	6.691	6.713	-0.022	161798	1.00	1.01	
5 2,4,6-Trinitrophenol	1	7.845	7.933	-0.088	155884	1.00	0.9771	
8 RDX	1	8.878	8.906	-0.028	199019	1.00	0.9743	
9 Nitrobenzene	1	11.924	11.973	-0.049	377310	1.00	1.01	
$ 10 1,2-Dinitrobenzene	1	13.044	13.093	-0.049	257324	1.00	0.9686	
11 3,5-Dinitroaniline	1	14.918	14.979	-0.061	457283	1.00	1.01	
12 1,3-Dinitrobenzene	1	15.471	15.519	-0.048	577120	1.00	1.02	
13 Nitroglycerin	2	15.891	15.939	-0.048	1273886	10.0	9.91	
14 o-Nitrotoluene	1	16.704	16.759	-0.055	240595	1.00	0.9664	
15 p-Nitrotoluene	1	16.991	17.046	-0.055	208929	1.00	0.9620	
16 4-Amino-2,6-dinitrotoluene	1	17.458	17.526	-0.068	280366	1.00	0.9449	
17 m-Nitrotoluene	1	17.964	18.026	-0.062	265803	1.00	0.9548	
18 2-Amino-4,6-dinitrotoluene	1	18.364	18.426	-0.062	397243	1.00	1.02	
19 1,3,5-Trinitrobenzene	1	18.884	18.939	-0.055	423869	1.00	1.03	
20 2,6-Dinitrotoluene	1	20.138	20.199	-0.061	273958	1.00	1.03	
21 2,4-Dinitrotoluene	1	20.605	20.666	-0.062	552269	1.00	0.9762	
22 Tetryl	1	24.245	24.313	-0.068	329366	1.00	1.03	
23 2,4,6-Trinitrotoluene	1	25.218	25.280	-0.062	389102	1.00	1.04	
24 PETN	2	26.138	26.186	-0.048	1371986	10.0	9.96	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

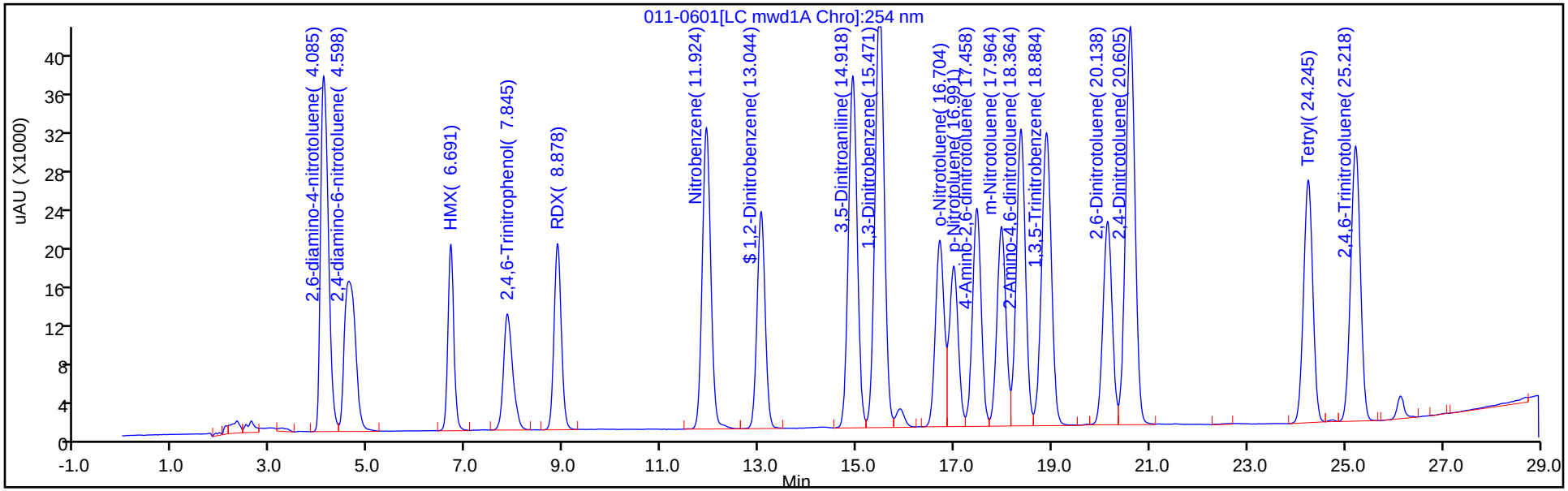
8330IntermStk_00067	Amount Added: 100.00	Units: uL
8330_ADDs_00027	Amount Added: 50.00	Units: uL

Report Date: 04-May-2021 13:43:12 Chrom Revision: 2.3 08-Apr-2021 17:17:48

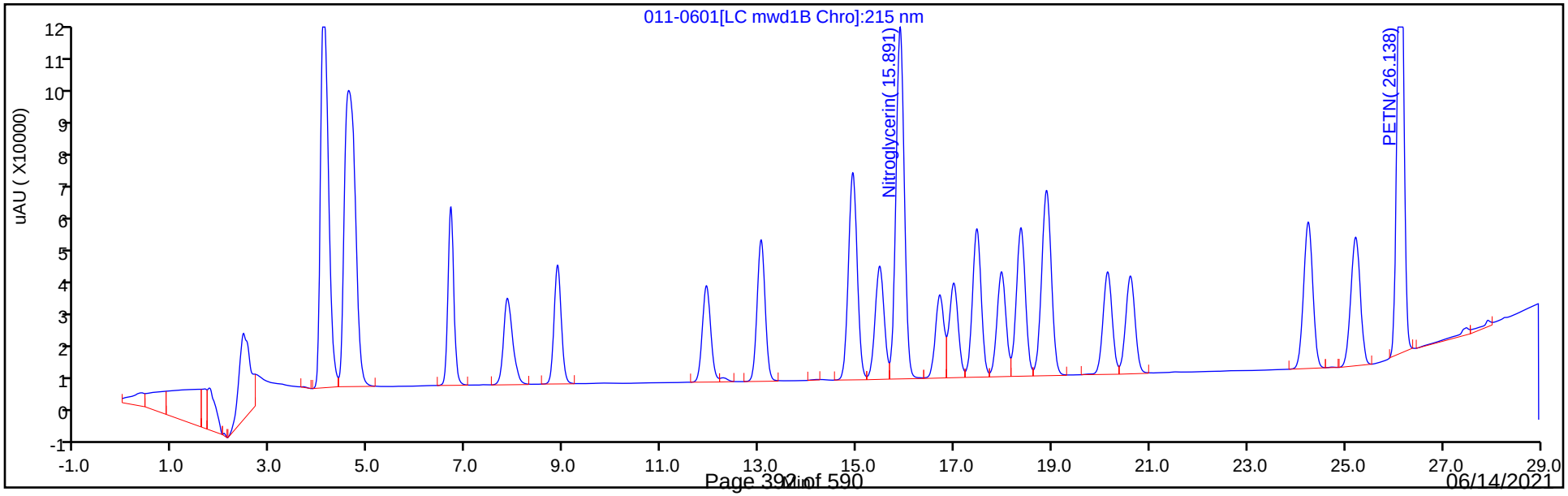
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\011-0601.D				
Injection Date:	01-May-2021 19:29:53	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 8			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

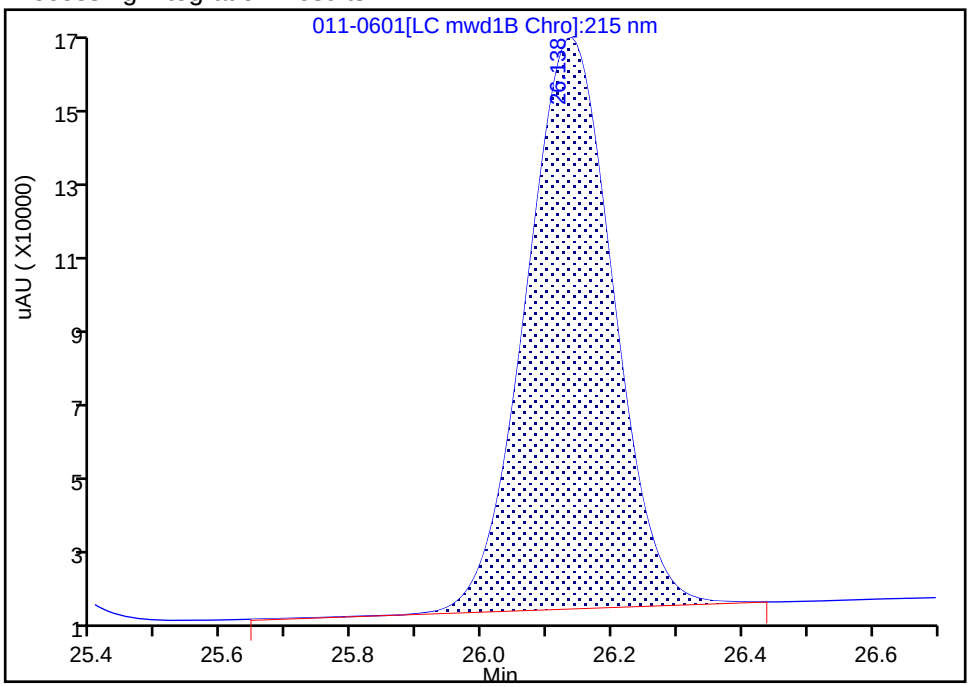
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\011-0601.D				
Injection Date:	01-May-2021 19:29:53	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 8				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

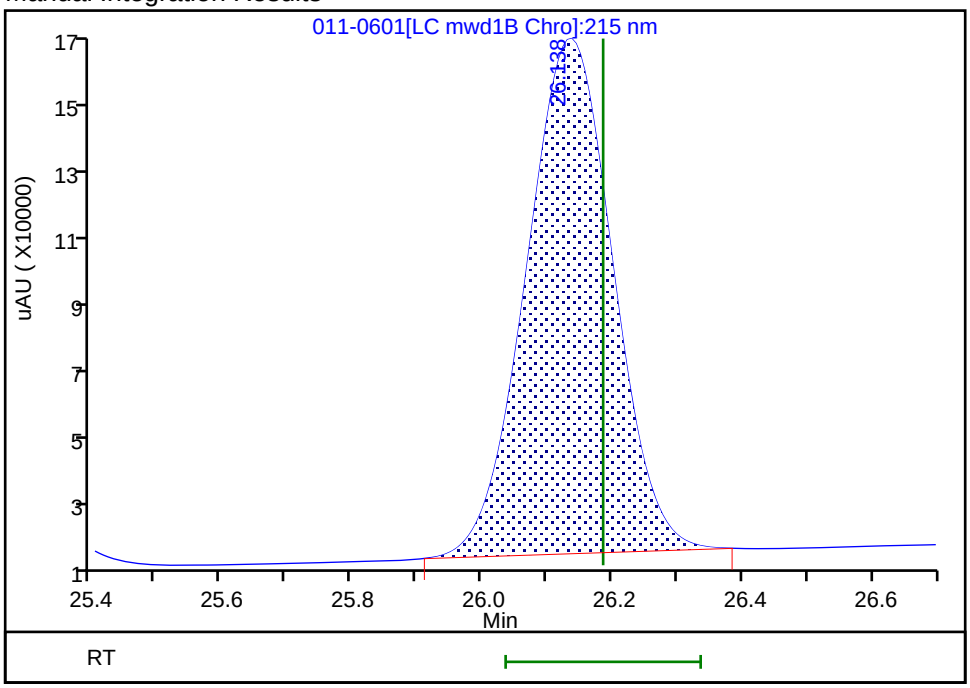
Processing Integration Results

RT: 26.14
Area: 1384511
Amount: 10.424343
Amount Units: ug/ml



Manual Integration Results

RT: 26.14
Area: 1371986
Amount: 9.960666
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:40:17

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\012-0701.D				
Lims ID:	IC INT/ADD 7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	01-May-2021 20:04:53	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC INT/ADD 7				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub1				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:12	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

First Level Reviewer: zhangji Date: 04-May-2021 13:40:25

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.104	4.126	-0.022	286797	0.7000	0.6941	
2 2,4-diamino-6-nitrotoluene	1	4.618	4.653	-0.035	172168	0.7000	0.7152	
6 HMX	1	6.698	6.713	-0.015	111120	0.7000	0.6937	
5 2,4,6-Trinitrophenol	1	7.878	7.933	-0.055	106987	0.7000	0.6706	
8 RDX	1	8.891	8.906	-0.015	136592	0.7000	0.6687	
9 Nitrobenzene	1	11.951	11.973	-0.022	256719	0.7028	0.6852	
$ 10 1,2-Dinitrobenzene	1	13.071	13.093	-0.022	176180	0.7000	0.6632	
11 3,5-Dinitroaniline	1	14.957	14.979	-0.022	318505	0.7000	0.7055	
12 1,3-Dinitrobenzene	1	15.504	15.519	-0.015	394975	0.7014	0.6992	
13 Nitroglycerin	2	15.924	15.939	-0.015	872941	7.00	6.79	
14 o-Nitrotoluene	1	16.744	16.759	-0.015	165863	0.7000	0.6662	
15 p-Nitrotoluene	1	17.031	17.046	-0.015	143722	0.7014	0.6617	
16 4-Amino-2,6-dinitrotoluene	1	17.504	17.526	-0.022	192075	0.7007	0.6474	
17 m-Nitrotoluene	1	18.011	18.026	-0.015	182587	0.7007	0.6559	
18 2-Amino-4,6-dinitrotoluene	1	18.411	18.426	-0.015	272718	0.7028	0.6963	
19 1,3,5-Trinitrobenzene	1	18.924	18.939	-0.015	290458	0.7014	0.7021	
20 2,6-Dinitrotoluene	1	20.184	20.199	-0.015	187184	0.7028	0.7036	
21 2,4-Dinitrotoluene	1	20.651	20.666	-0.015	377631	0.7028	0.6675	
22 Tetryl	1	24.304	24.313	-0.009	227001	0.7014	0.7086	
23 2,4,6-Trinitrotoluene	1	25.271	25.280	-0.009	266122	0.7028	0.7118	
24 PETN	2	26.184	26.186	-0.002	944599	7.00	6.86	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

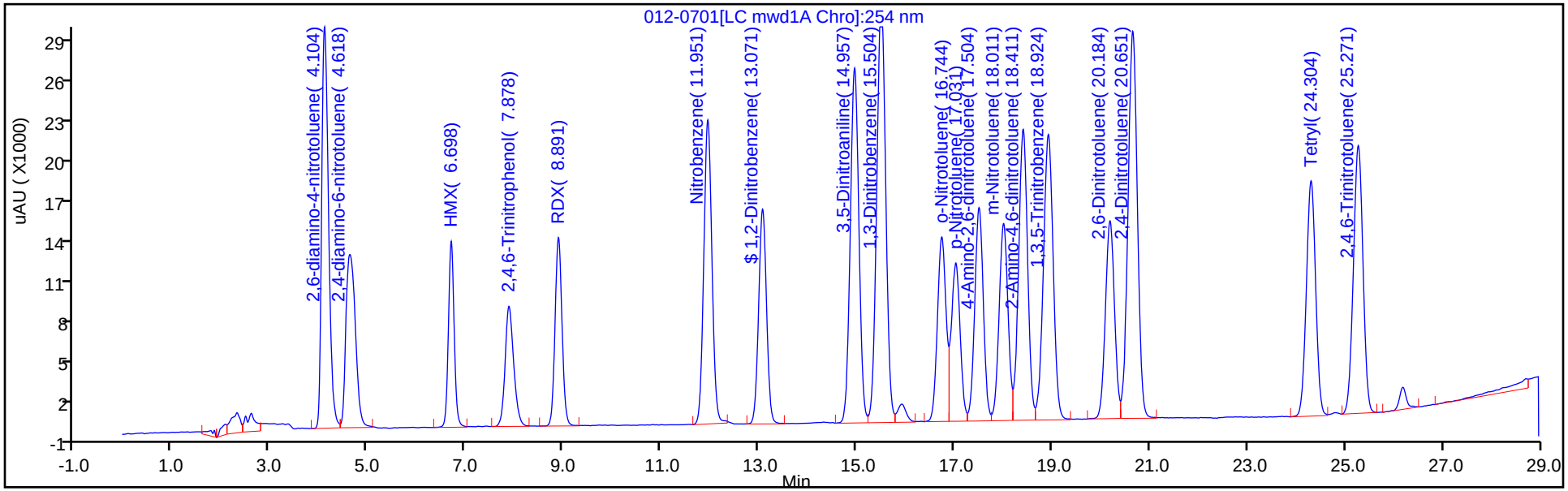
8330IntermStk_00067	Amount Added: 70.00	Units: uL
8330_ADDs_00027	Amount Added: 35.00	Units: uL

Report Date: 04-May-2021 13:43:12 Chrom Revision: 2.3 08-Apr-2021 17:17:48

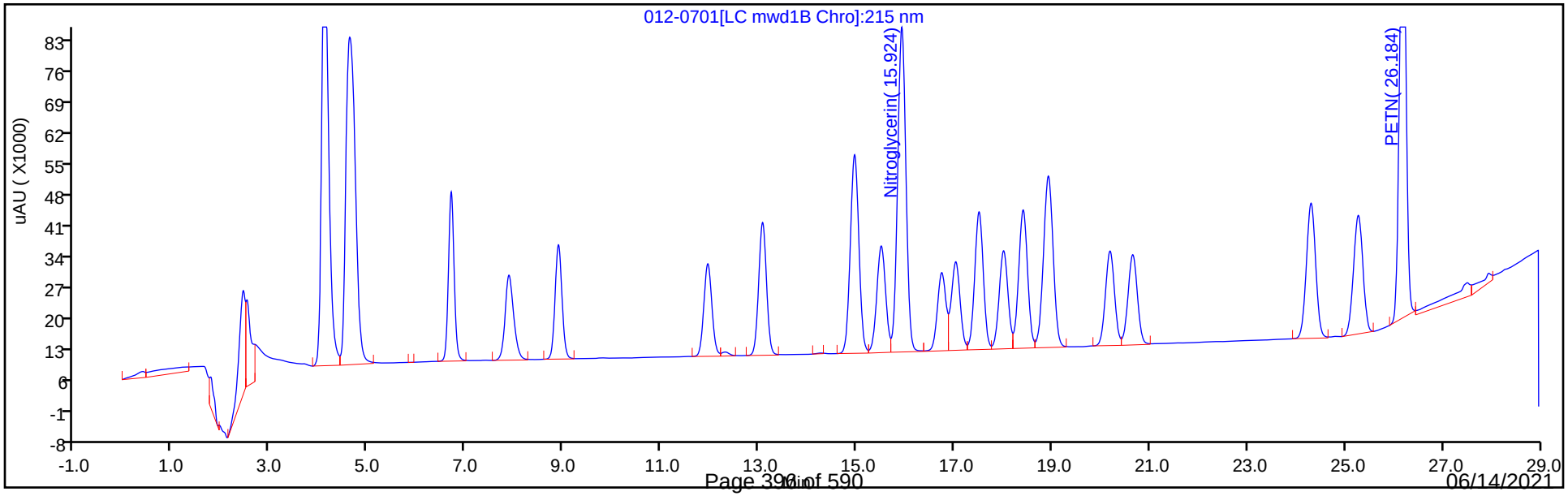
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\012-0701.D				
Injection Date:	01-May-2021 20:04:53	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 7			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

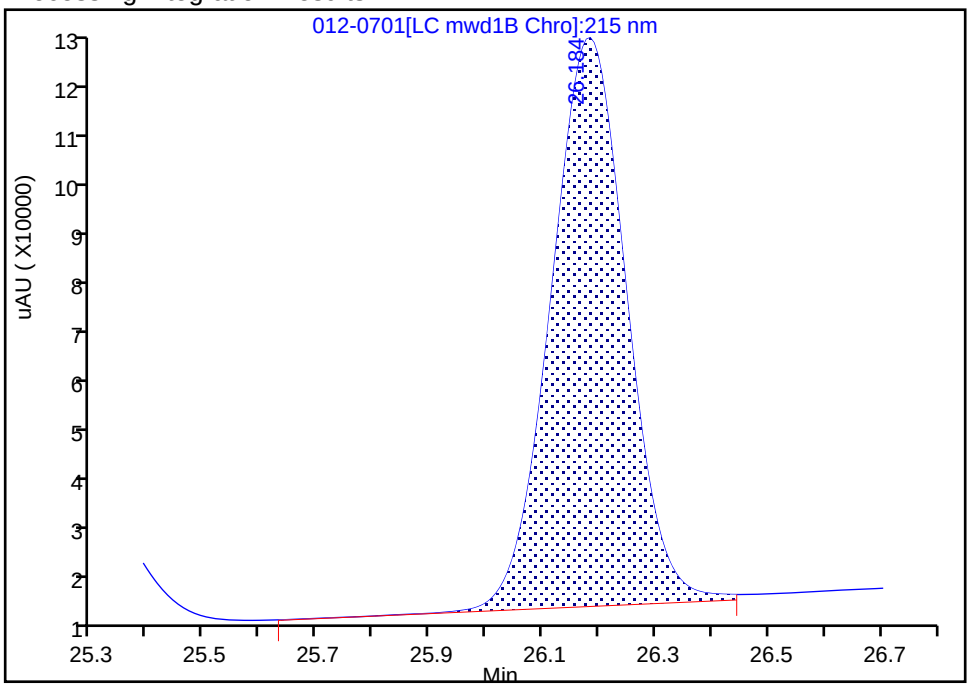
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\012-0701.D				
Injection Date:	01-May-2021 20:04:53	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 7				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

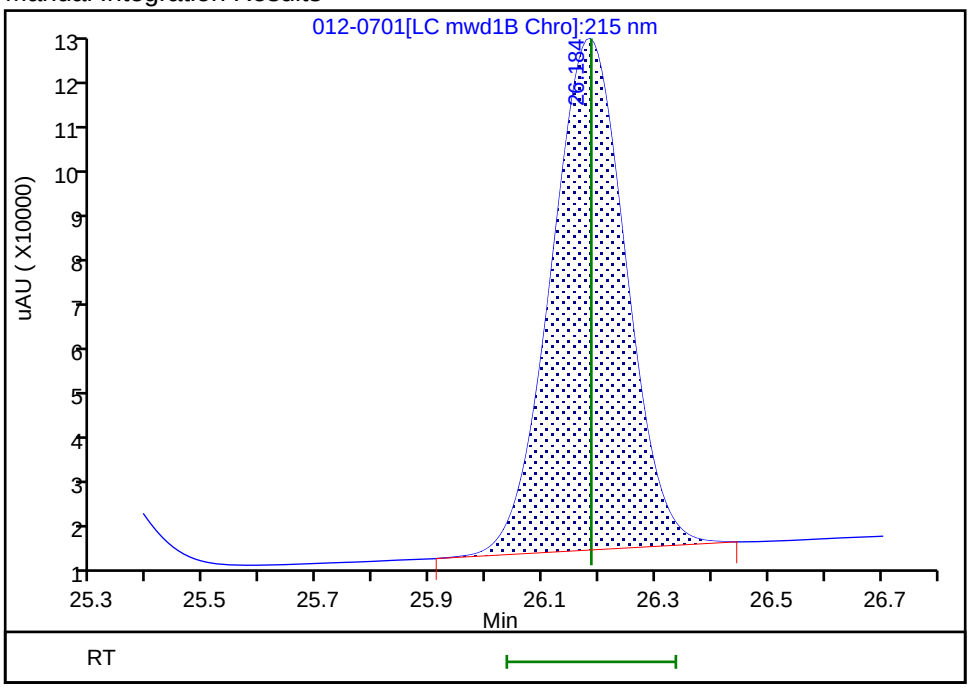
Processing Integration Results

RT: 26.18
Area: 962158
Amount: 7.202862
Amount Units: ug/ml



Manual Integration Results

RT: 26.18
Area: 944599
Amount: 6.857822
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:40:24

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\013-0801.D
Lims ID: IC INT/ADD 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 01-May-2021 20:39:55 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 6
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:13 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:40:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.111	4.126	-0.015	166673	0.4000	0.3994	
2 2,4-diamino-6-nitrotoluene	1	4.631	4.653	-0.022	98867	0.4000	0.4084	
6 HMX	1	6.705	6.713	-0.008	64089	0.4000	0.3975	
5 2,4,6-Trinitrophenol	1	7.911	7.933	-0.022	62190	0.4000	0.3898	
8 RDX	1	8.898	8.906	-0.008	78185	0.4000	0.3828	
9 Nitrobenzene	1	11.951	11.973	-0.022	145926	0.4016	0.3895	
$ 10 1,2-Dinitrobenzene	1	13.065	13.093	-0.028	101248	0.4000	0.3811	
11 3,5-Dinitroaniline	1	14.951	14.979	-0.028	183549	0.4000	0.4057	
12 1,3-Dinitrobenzene	1	15.491	15.519	-0.028	226148	0.4008	0.3993	
13 Nitroglycerin	2	15.905	15.939	-0.034	498088	4.00	3.87	
14 o-Nitrotoluene	1	16.725	16.759	-0.034	94418	0.4000	0.3792	
15 p-Nitrotoluene	1	17.011	17.046	-0.035	82281	0.4008	0.3788	
16 4-Amino-2,6-dinitrotoluene	1	17.485	17.526	-0.041	109890	0.4004	0.3704	
17 m-Nitrotoluene	1	17.985	18.026	-0.041	104128	0.4004	0.3740	
18 2-Amino-4,6-dinitrotoluene	1	18.385	18.426	-0.041	155961	0.4016	0.3968	
19 1,3,5-Trinitrobenzene	1	18.905	18.939	-0.034	165828	0.4008	0.3978	
20 2,6-Dinitrotoluene	1	20.158	20.199	-0.041	106452	0.4016	0.3987	
21 2,4-Dinitrotoluene	1	20.625	20.666	-0.041	215819	0.4016	0.3815	
22 Tetryl	1	24.258	24.313	-0.055	129140	0.4008	0.4006	
23 2,4,6-Trinitrotoluene	1	25.231	25.280	-0.049	151709	0.4016	0.4040	
24 PETN	2	26.145	26.186	-0.041	531566	4.00	3.86	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

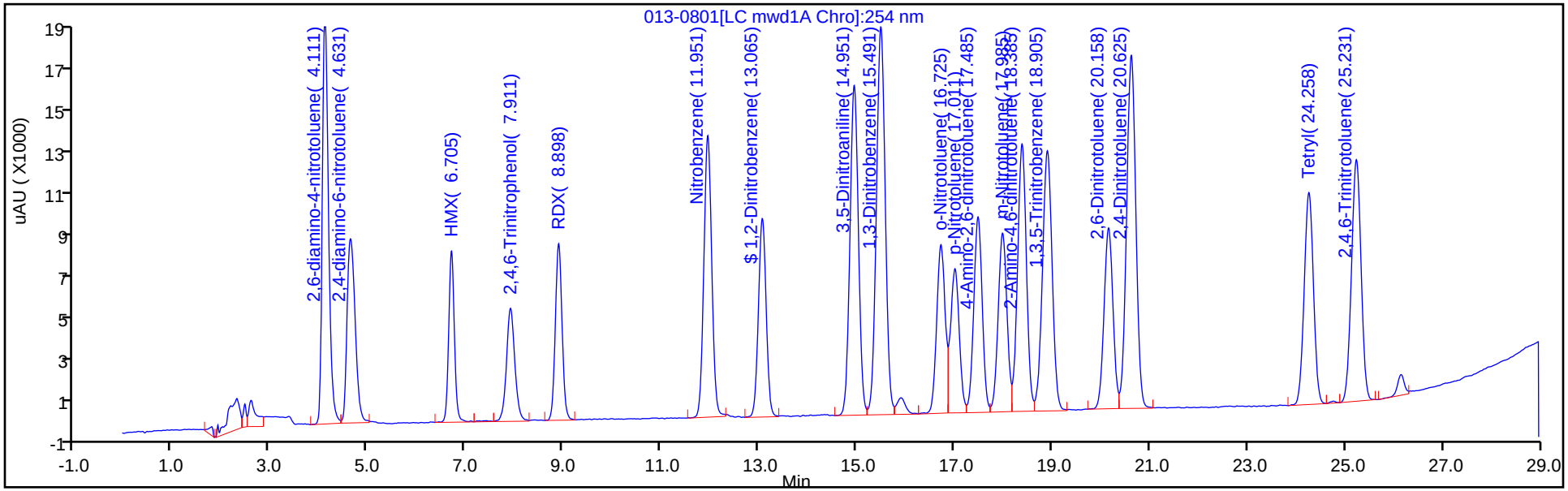
8330IntermStk_00067	Amount Added: 40.00	Units: uL
8330_ADDs_00027	Amount Added: 20.00	Units: uL

Report Date: 04-May-2021 13:43:13 Chrom Revision: 2.3 08-Apr-2021 17:17:48

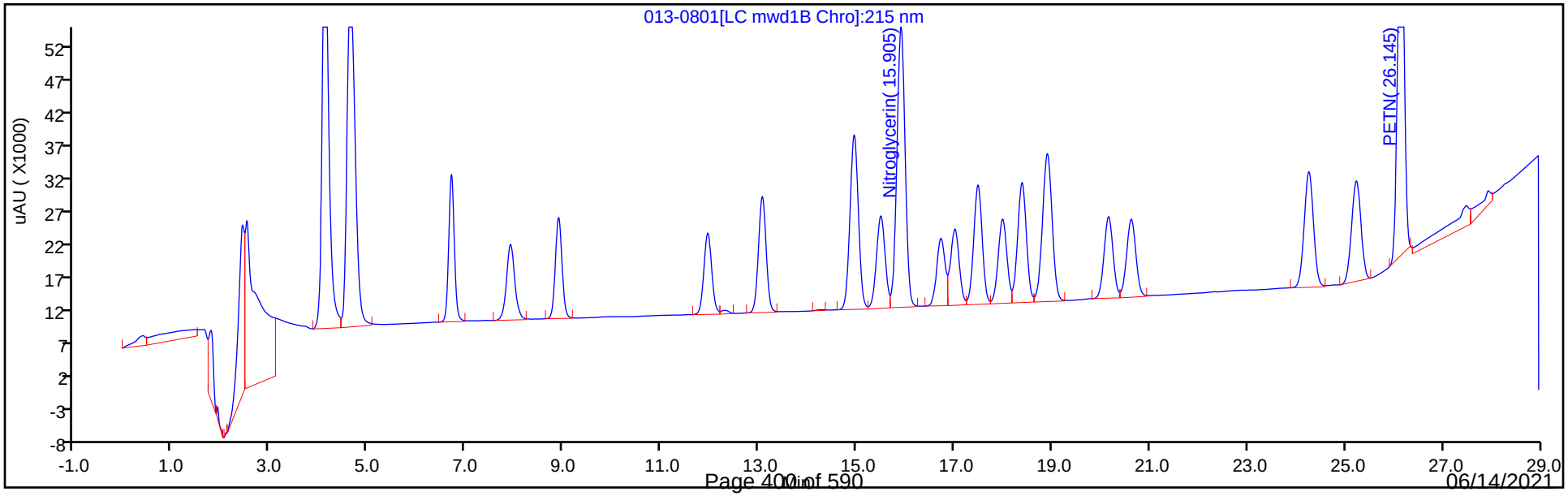
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\013-0801.D				
Injection Date:	01-May-2021 20:39:55	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 6			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

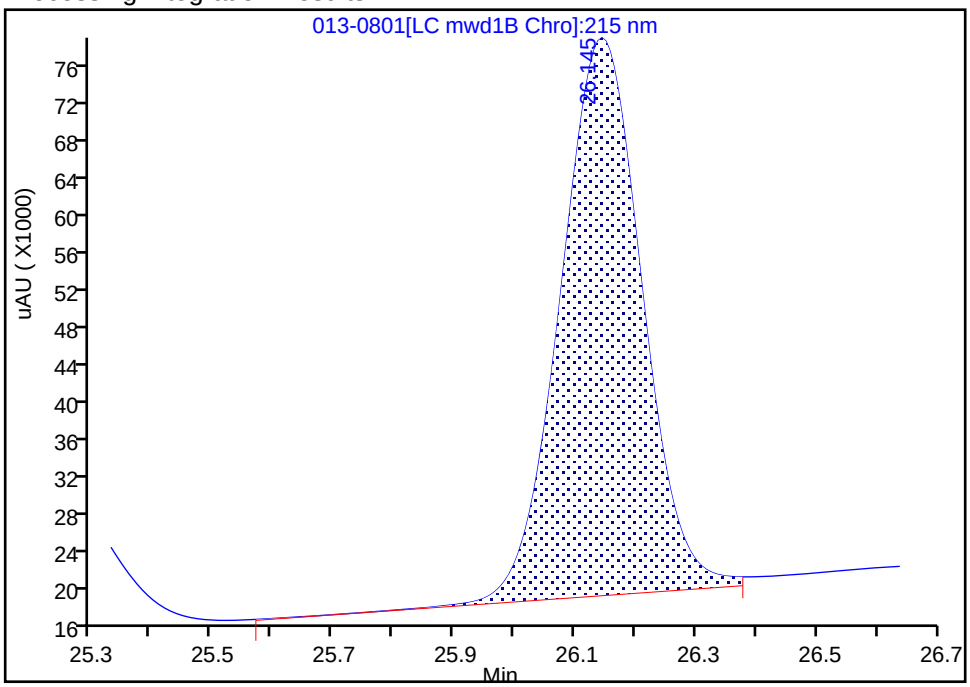
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\013-0801.D				
Injection Date:	01-May-2021 20:39:55	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 6				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

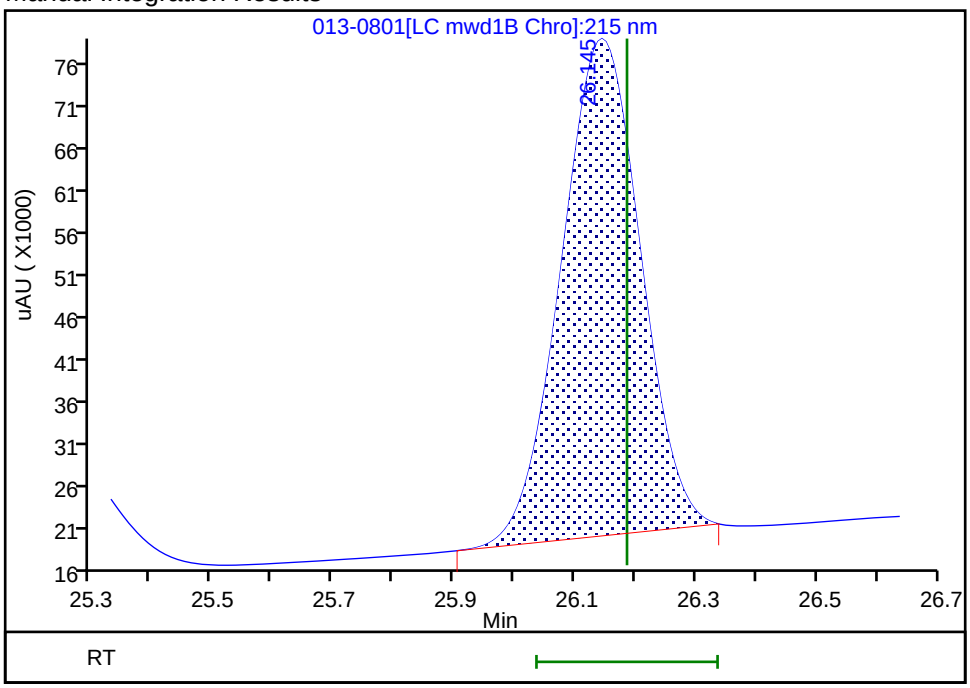
Processing Integration Results

RT: 26.14
Area: 555116
Amount: 4.095081
Amount Units: ug/ml



Manual Integration Results

RT: 26.14
Area: 531566
Amount: 3.859188
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:40:32

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\014-0901.D
Lims ID: IC INT/ADD 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-May-2021 21:15:02 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 5
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:13 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:35:48

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.126	4.126	0.000	101396	0.2500	0.2392	
2 2,4-diamino-6-nitrotoluene	1	4.653	4.653	0.000	59623	0.2500	0.2442	
6 HMX	1	6.713	6.713	0.000	39580	0.2500	0.2431	
5 2,4,6-Trinitrophenol	1	7.933	7.933	0.000	38222	0.2500	0.2396	
8 RDX	1	8.906	8.906	0.000	48606	0.2500	0.2379	
9 Nitrobenzene	1	11.973	11.973	0.000	90760	0.2510	0.2423	
$ 10 1,2-Dinitrobenzene	1	13.093	13.093	0.000	63081	0.2500	0.2375	
11 3,5-Dinitroaniline	1	14.979	14.979	0.000	110385	0.2500	0.2431	
12 1,3-Dinitrobenzene	1	15.519	15.519	0.000	140347	0.2505	0.2469	
13 Nitroglycerin	2	15.939	15.939	0.000	310480	2.50	2.41	
14 o-Nitrotoluene	1	16.759	16.759	0.000	58191	0.2500	0.2337	
15 p-Nitrotoluene	1	17.046	17.046	0.000	51245	0.2505	0.2359	
16 4-Amino-2,6-dinitrotoluene	1	17.526	17.526	0.000	68509	0.2503	0.2309	
17 m-Nitrotoluene	1	18.026	18.026	0.000	64933	0.2503	0.2332	
18 2-Amino-4,6-dinitrotoluene	1	18.426	18.426	0.000	97071	0.2510	0.2458	
19 1,3,5-Trinitrobenzene	1	18.939	18.939	0.000	104344	0.2505	0.2477	
20 2,6-Dinitrotoluene	1	20.199	20.199	0.000	66062	0.2510	0.2462	
21 2,4-Dinitrotoluene	1	20.666	20.666	0.000	134163	0.2510	0.2372	
22 Tetryl	1	24.313	24.313	0.000	80996	0.2505	0.2490	
23 2,4,6-Trinitrotoluene	1	25.280	25.280	0.000	93822	0.2510	0.2482	
24 PETN	2	26.186	26.186	0.000	330309	2.50	2.40	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

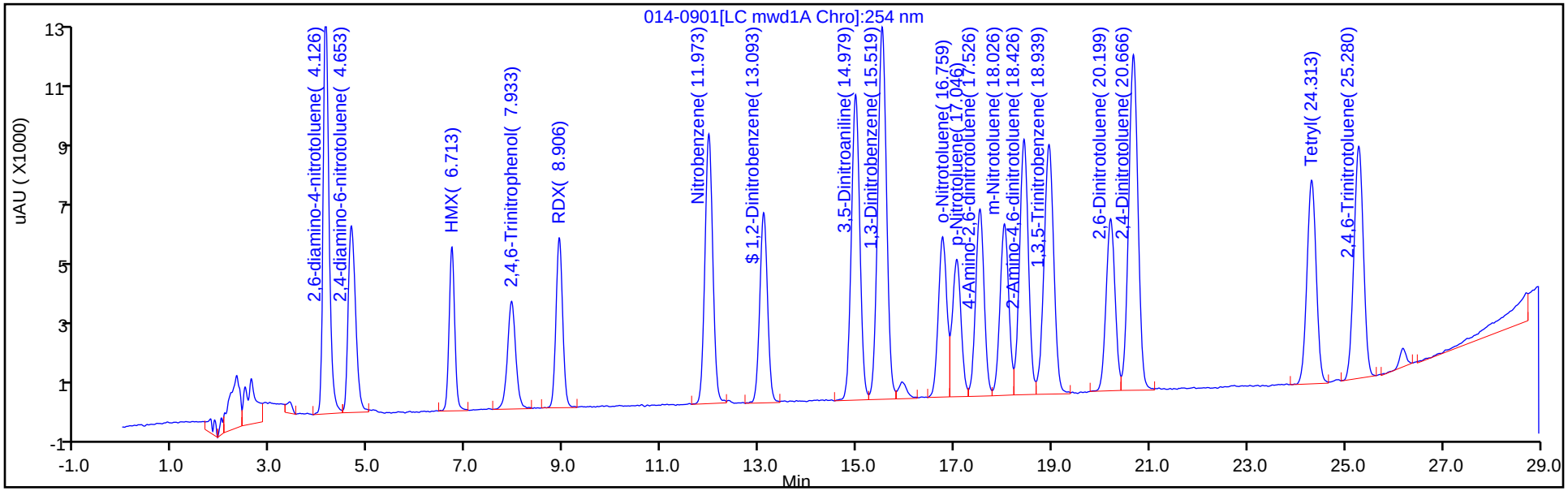
8330IntermStk_00067	Amount Added: 25.00	Units: uL
8330_ADDs_00027	Amount Added: 12.50	Units: uL

Report Date: 04-May-2021 13:43:13 Chrom Revision: 2.3 08-Apr-2021 17:17:48

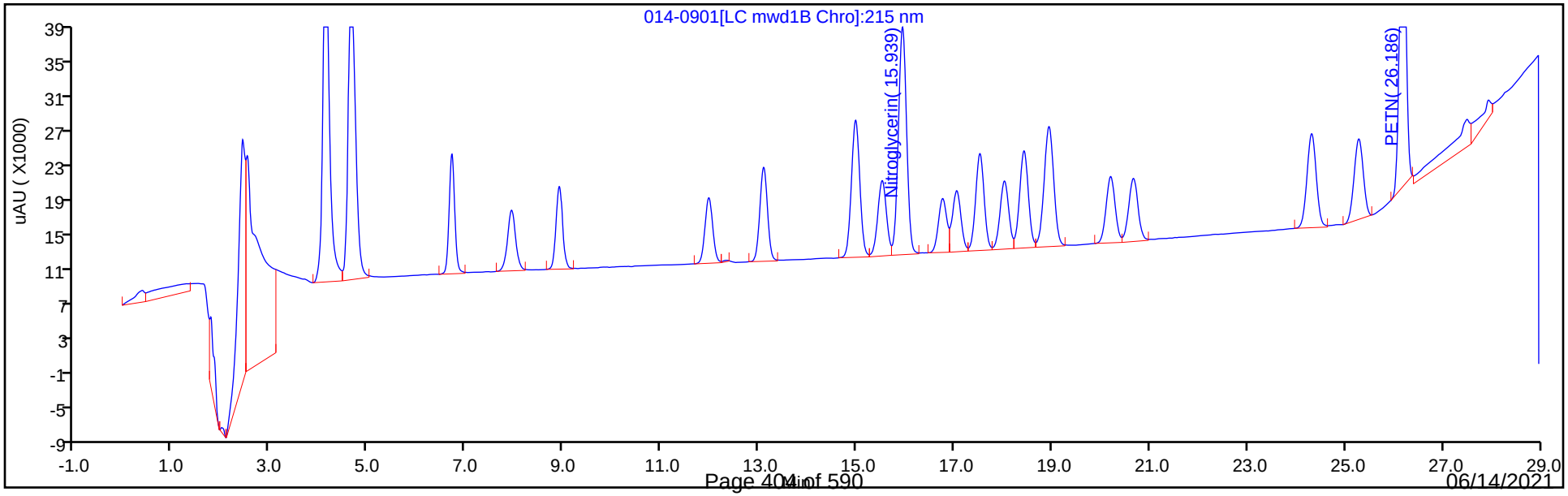
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\014-0901.D				
Injection Date:	01-May-2021 21:15:02	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 5			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

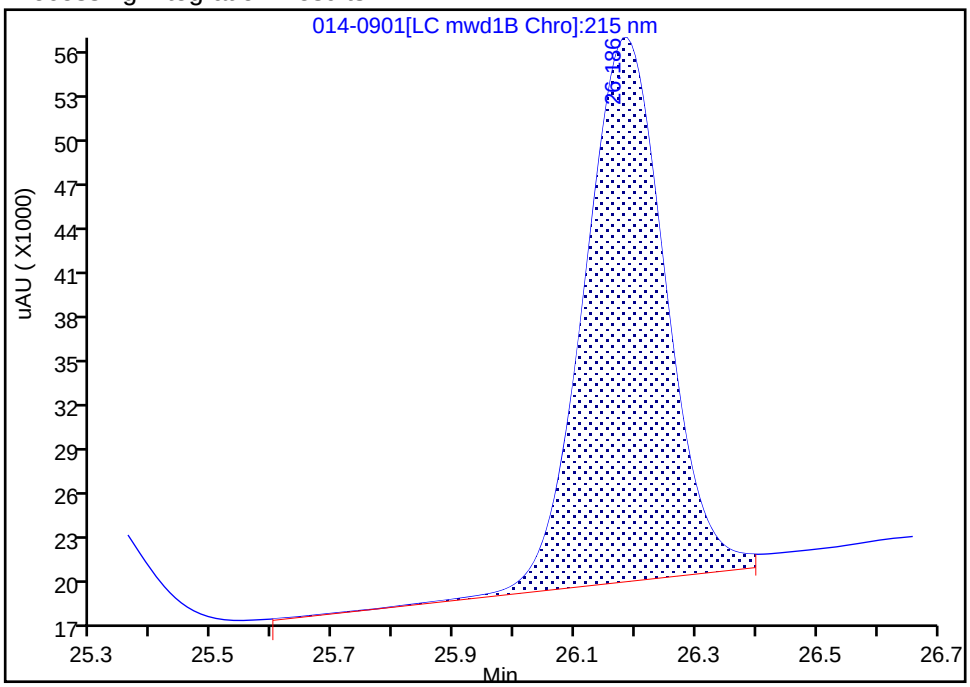
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\014-0901.D				
Injection Date:	01-May-2021 21:15:02	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 5				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

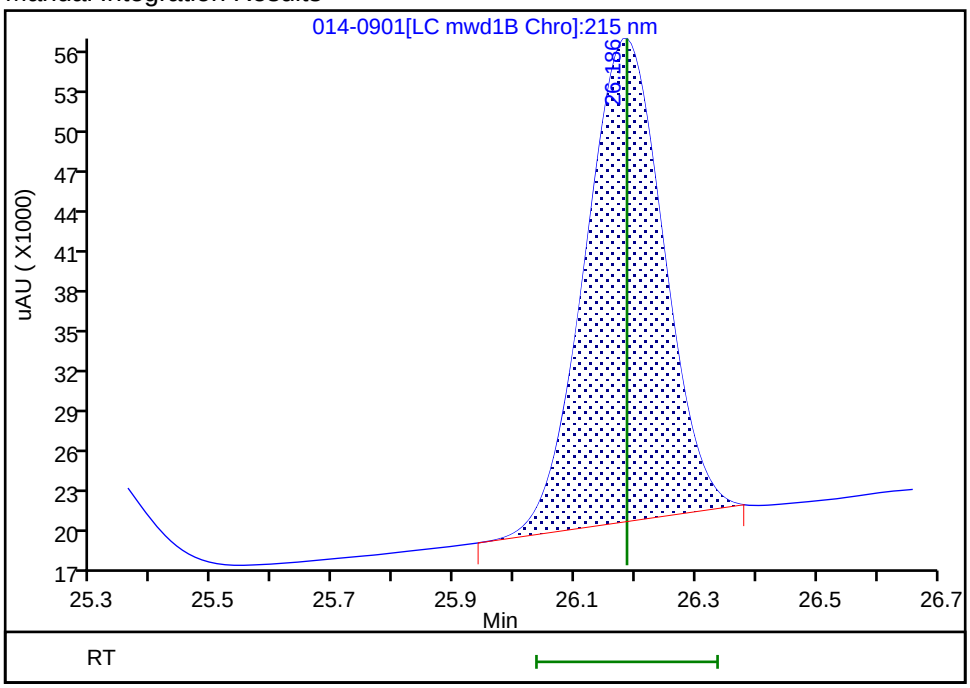
Processing Integration Results

RT: 26.19
Area: 348444
Amount: 2.522976
Amount Units: ug/ml



Manual Integration Results

RT: 26.19
Area: 330309
Amount: 2.398055
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:40:41

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\015-1001.D
Lims ID: IC INT/ADD 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-May-2021 21:50:04 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 4
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:14 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:40:52

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.132	4.126	0.006	44112	0.1000	0.0987	
2 2,4-diamino-6-nitrotoluene	1	4.658	4.653	0.005	25556	0.1000	0.1016	
6 HMX	1	6.718	6.713	0.005	16850	0.1000	0.0999	
5 2,4,6-Trinitrophenol	1	7.958	7.933	0.025	16340	0.1000	0.1024	
8 RDX	1	8.912	8.906	0.006	20661	0.1000	0.1011	
9 Nitrobenzene	1	11.971	11.973	-0.002	38085	0.1004	0.1017	
$ 10 1,2-Dinitrobenzene	1	13.091	13.093	-0.002	26678	0.1000	0.1004	
11 3,5-Dinitroaniline	1	14.971	14.979	-0.008	46817	0.1000	0.1019	
12 1,3-Dinitrobenzene	1	15.518	15.519	-0.001	58764	0.1002	0.1019	
13 Nitroglycerin	2	15.931	15.939	-0.008	130447	1.00	1.01	
14 o-Nitrotoluene	1	16.751	16.759	-0.008	24528	0.1000	0.0985	
15 p-Nitrotoluene	1	17.038	17.046	-0.008	21221	0.1002	0.0977	
16 4-Amino-2,6-dinitrotoluene	1	17.511	17.526	-0.015	28819	0.1001	0.0971	
17 m-Nitrotoluene	1	18.011	18.026	-0.015	27212	0.1001	0.0977	
18 2-Amino-4,6-dinitrotoluene	1	18.418	18.426	-0.008	40904	0.1004	0.1017	
19 1,3,5-Trinitrobenzene	1	18.931	18.939	-0.008	44594	0.1002	0.1018	
20 2,6-Dinitrotoluene	1	20.185	20.199	-0.014	27721	0.1004	0.1014	
21 2,4-Dinitrotoluene	1	20.652	20.666	-0.015	55838	0.1004	0.0987	
22 Tetryl	1	24.298	24.313	-0.015	34148	0.1002	0.1015	
23 2,4,6-Trinitrotoluene	1	25.265	25.280	-0.015	38740	0.1004	0.1000	
24 PETN	2	26.172	26.186	-0.014	136676	1.00	0.99	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

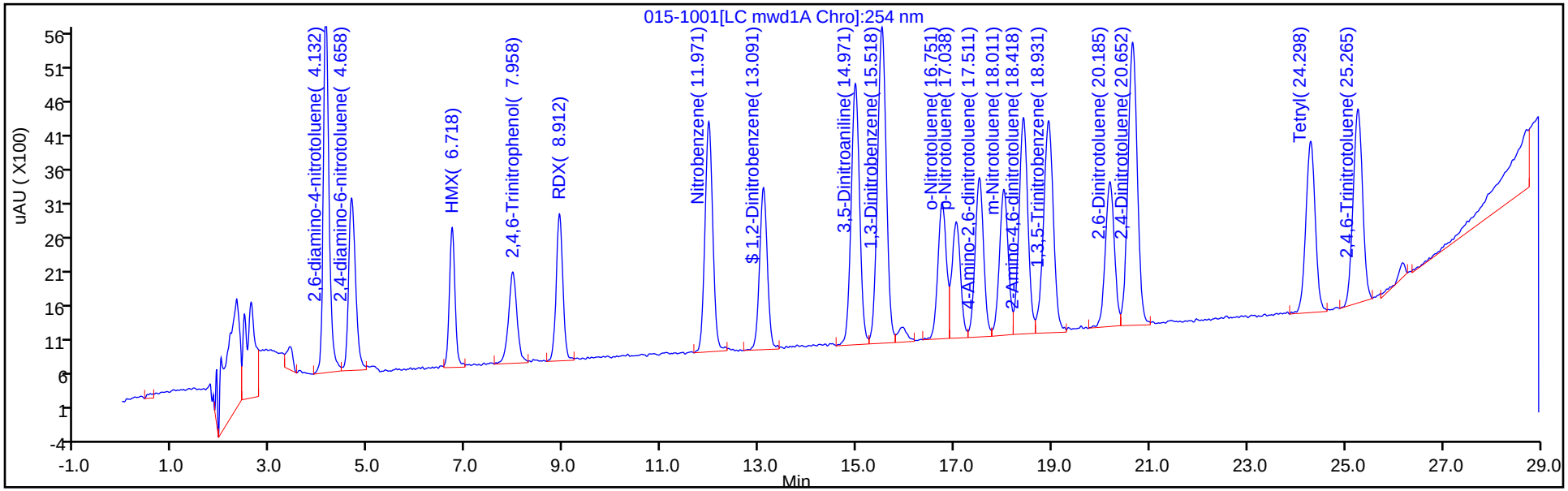
8330IntermStk_00067	Amount Added: 10.00	Units: uL
8330_ADDs_00027	Amount Added: 5.00	Units: uL

Report Date: 04-May-2021 13:43:14 Chrom Revision: 2.3 08-Apr-2021 17:17:48

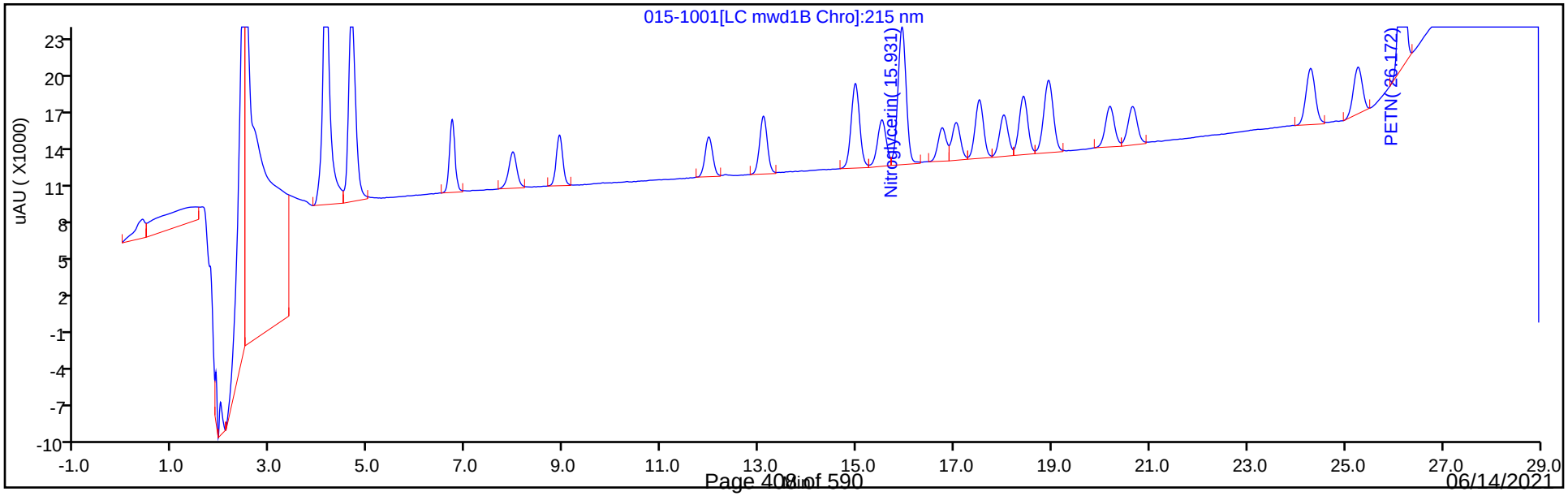
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\015-1001.D				
Injection Date:	01-May-2021 21:50:04	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 4			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

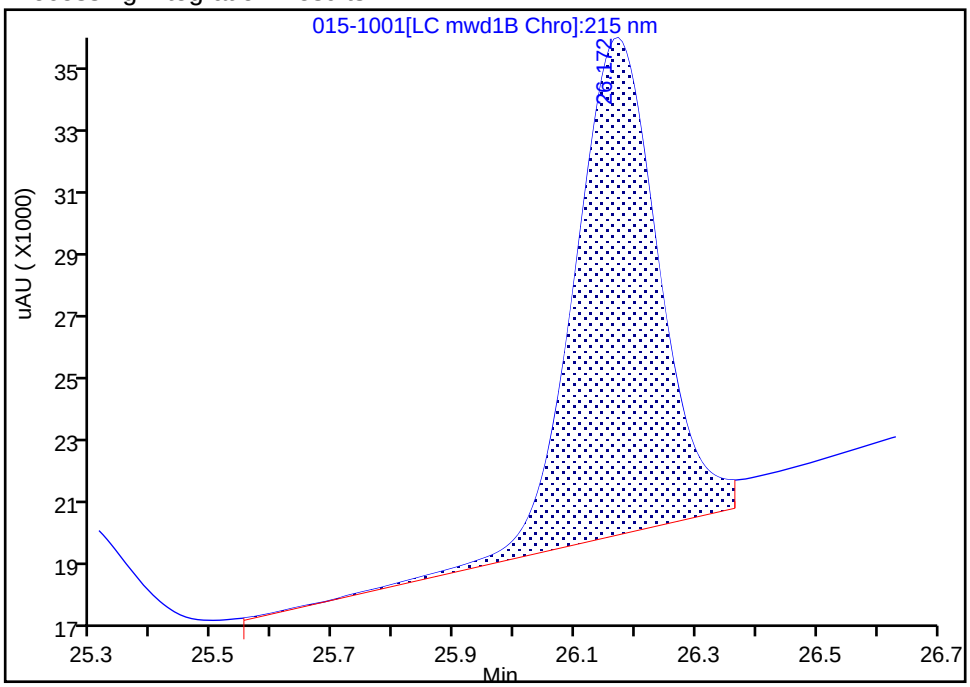
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\015-1001.D				
Injection Date:	01-May-2021 21:50:04	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 4				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

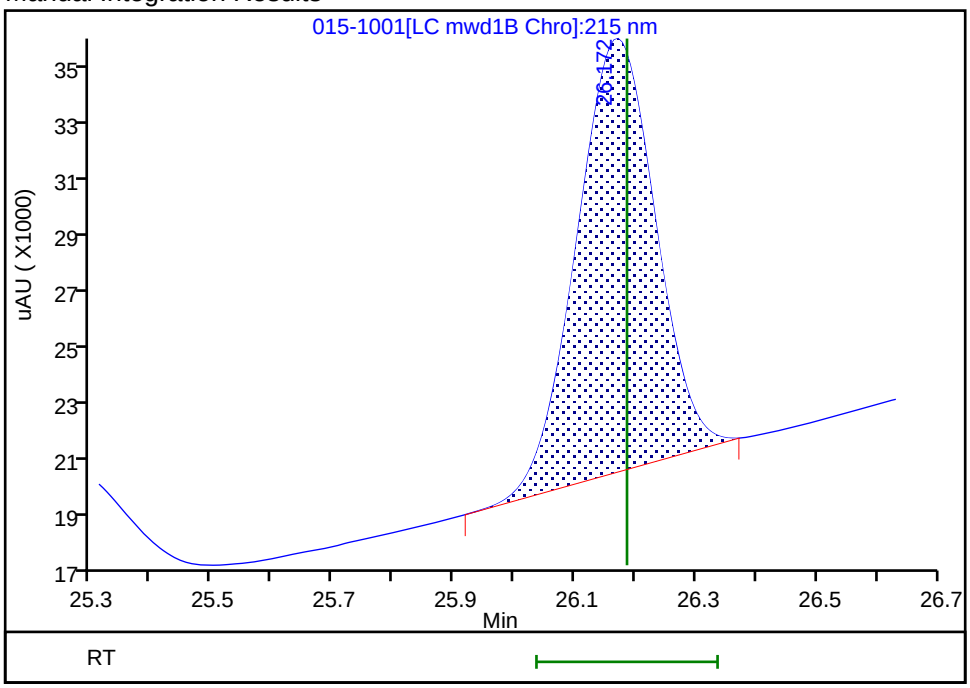
Processing Integration Results

RT: 26.17
Area: 151513
Amount: 1.005886
Amount Units: ug/ml



Manual Integration Results

RT: 26.17
Area: 136676
Amount: 0.992273
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:40:50

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\016-1101.D
Lims ID: IC INT/ADD 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-May-2021 22:25:05 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 3
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:14 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:41:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.134	4.126	0.008	24575	0.0500	0.0507	
2 2,4-diamino-6-nitrotoluene	1	4.667	4.653	0.014	13602	0.0500	0.0516	
6 HMX	1	6.734	6.713	0.021	8791	0.0500	0.0492	
5 2,4,6-Trinitrophenol	1	7.987	7.933	0.054	8578	0.0500	0.0538	
8 RDX	1	8.934	8.906	0.028	11066	0.0500	0.0542	
9 Nitrobenzene	1	11.994	11.973	0.021	19306	0.0502	0.0515	
$ 10 1,2-Dinitrobenzene	1	13.114	13.093	0.021	13836	0.0500	0.0521	
11 3,5-Dinitroaniline	1	15.007	14.979	0.028	23131	0.0500	0.0493	
12 1,3-Dinitrobenzene	1	15.547	15.519	0.028	29142	0.0501	0.0493	
13 Nitroglycerin	2	15.961	15.939	0.022	65416	0.5000	0.5087	
14 o-Nitrotoluene	1	16.781	16.759	0.022	12373	0.0500	0.0497	
15 p-Nitrotoluene	1	17.074	17.046	0.028	10760	0.0501	0.0495	
16 4-Amino-2,6-dinitrotoluene	1	17.541	17.526	0.015	14802	0.0501	0.0499	
17 m-Nitrotoluene	1	18.047	18.026	0.021	13943	0.0501	0.0501	
18 2-Amino-4,6-dinitrotoluene	1	18.441	18.426	0.015	21111	0.0502	0.0509	
19 1,3,5-Trinitrobenzene	1	18.954	18.939	0.015	23506	0.0501	0.0503	
20 2,6-Dinitrotoluene	1	20.201	20.199	0.002	14081	0.0502	0.0499	
21 2,4-Dinitrotoluene	1	20.674	20.666	0.008	28396	0.0502	0.0502	
22 Tetryl	1	24.287	24.313	-0.026	17573	0.0501	0.0494	
23 2,4,6-Trinitrotoluene	1	25.254	25.280	-0.026	19400	0.0502	0.0479	
24 PETN	2	26.154	26.186	-0.032	69170	0.5000	0.5022	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

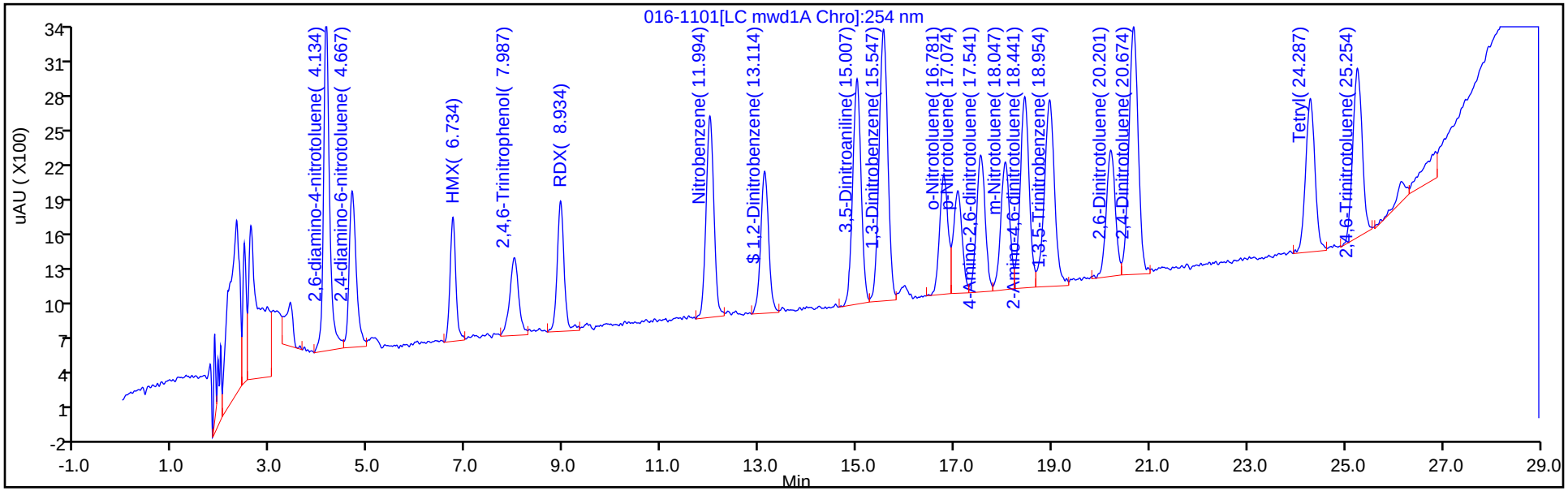
8330IntermStk_00067	Amount Added:	5.00	Units: uL
8330_ADDs_00027	Amount Added:	2.50	Units: uL

Report Date: 04-May-2021 13:43:14 Chrom Revision: 2.3 08-Apr-2021 17:17:48

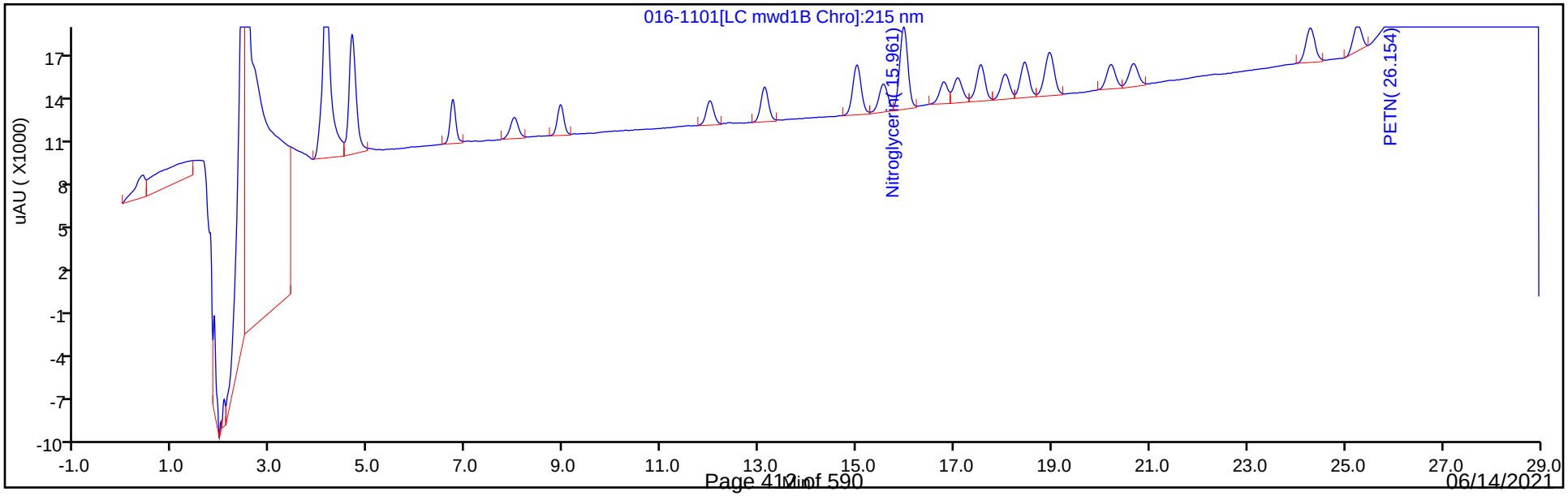
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\016-1101.D				
Injection Date:	01-May-2021 22:25:05	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 3			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

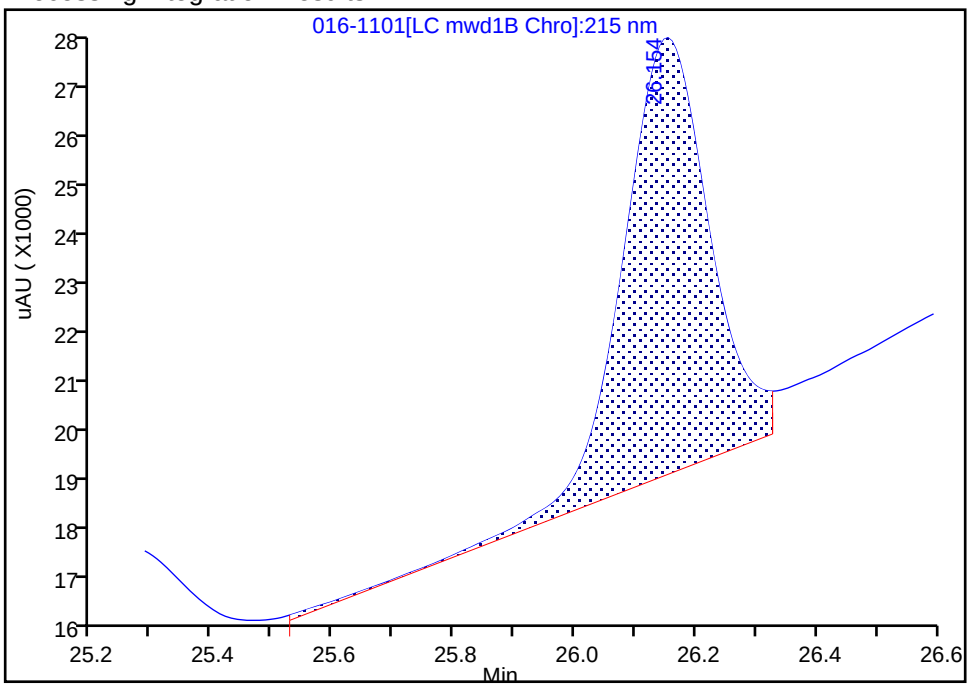
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\016-1101.D				
Injection Date:	01-May-2021 22:25:05	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 3				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

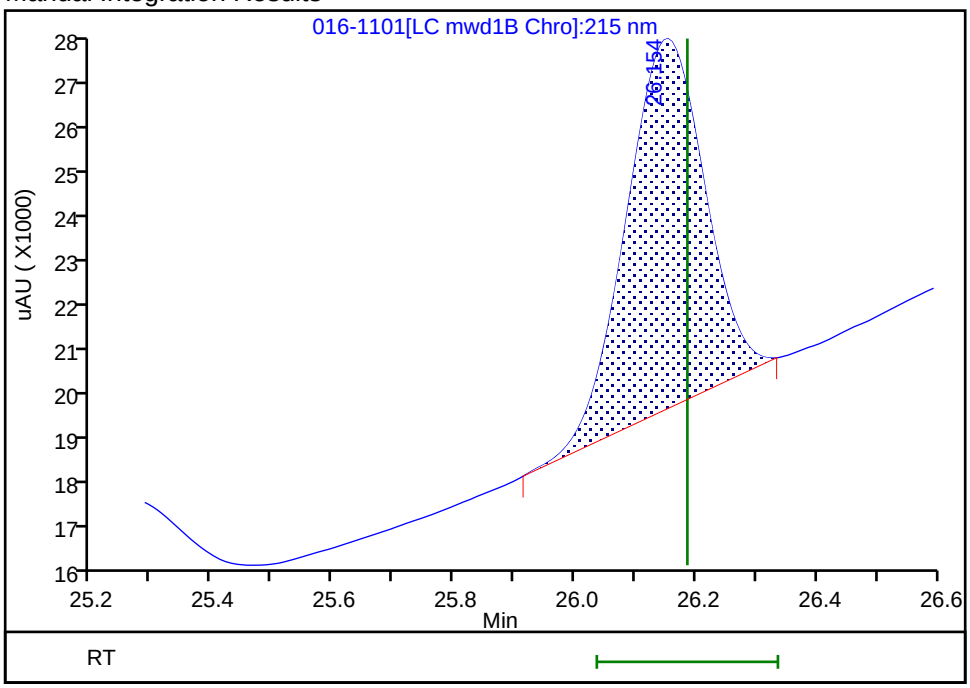
Processing Integration Results

RT: 26.15
Area: 81816
Amount: 0.467715
Amount Units: ug/ml



Manual Integration Results

RT: 26.15
Area: 69170
Amount: 0.502177
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:40:59

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\017-1201.D
Lims ID: IC INT/ADD 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-May-2021 23:00:06 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 2
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:15 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:41:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.133	4.126	0.007	11811	0.0200	0.0194	
2 2,4-diamino-6-nitrotoluene	1	4.673	4.653	0.020	6051	0.0200	0.0200	
6 HMX	1	6.720	6.713	0.007	4286	0.0200	0.0208	
5 2,4,6-Trinitrophenol	1	7.980	7.933	0.047	3270	0.0200	0.0205	
8 RDX	1	8.926	8.906	0.020	4533	0.0200	0.0222	
9 Nitrobenzene	1	11.973	11.973	0.000	7888	0.0201	0.0211	
$ 10 1,2-Dinitrobenzene	1	13.093	13.093	0.000	6280	0.0200	0.0236	
11 3,5-Dinitroaniline	1	14.980	14.979	0.001	9417	0.0200	0.0188	
12 1,3-Dinitrobenzene	1	15.533	15.519	0.014	12411	0.0200	0.0196	
13 Nitroglycerin	2	15.940	15.939	0.001	28299	0.2000	0.2200	
14 o-Nitrotoluene	1	16.740	16.759	-0.019	5151	0.0200	0.0207	
15 p-Nitrotoluene	1	17.060	17.046	0.014	4823	0.0200	0.0222	
16 4-Amino-2,6-dinitrotoluene	1	17.520	17.526	-0.006	6276	0.0200	0.0212	
17 m-Nitrotoluene	1	18.033	18.026	0.007	5928	0.0200	0.0213	
18 2-Amino-4,6-dinitrotoluene	1	18.426	18.426	0.000	9114	0.0201	0.0202	
19 1,3,5-Trinitrobenzene	1	18.946	18.939	0.007	10540	0.0200	0.0187	
20 2,6-Dinitrotoluene	1	20.200	20.199	0.001	6026	0.0201	0.0195	
21 2,4-Dinitrotoluene	1	20.666	20.666	0.000	12229	0.0201	0.0216	
22 Tetryl	1	24.306	24.313	-0.007	7583	0.0200	0.0179	
23 2,4,6-Trinitrotoluene	1	25.280	25.280	0.000	8548	0.0201	0.0187	
24 PETN	2	26.180	26.186	-0.006	27436	0.2000	0.1992	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

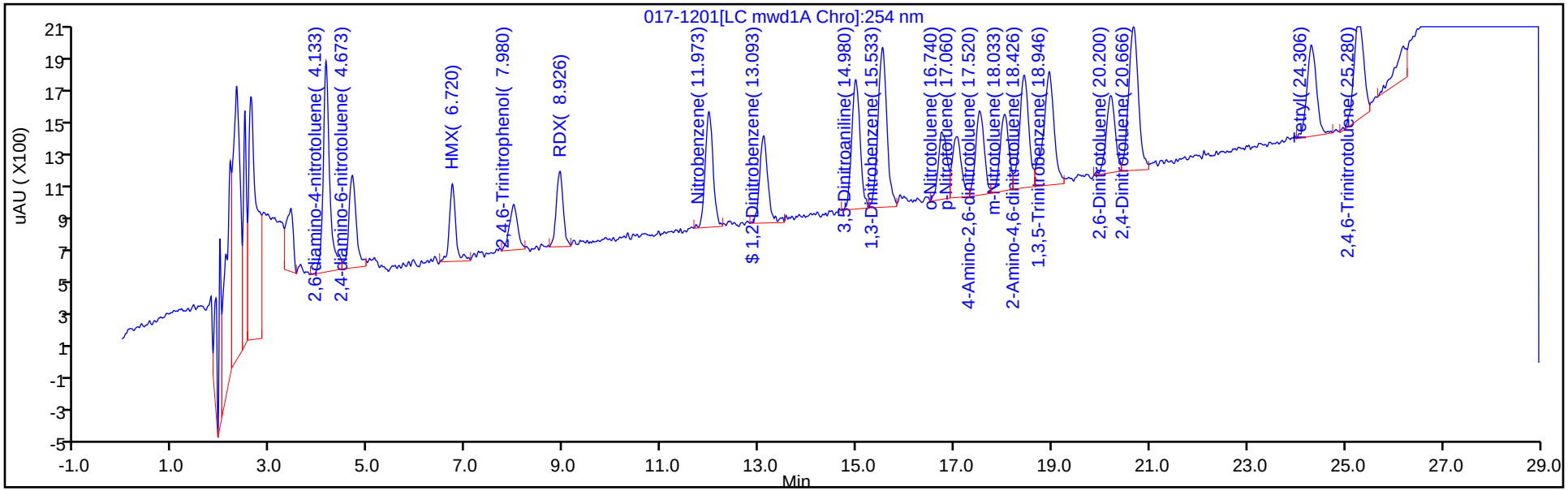
8330IntermStk_00067	Amount Added:	2.00	Units: uL
8330_ADDs_00027	Amount Added:	1.00	Units: uL

Report Date: 04-May-2021 13:43:15 Chrom Revision: 2.3 08-Apr-2021 17:17:48

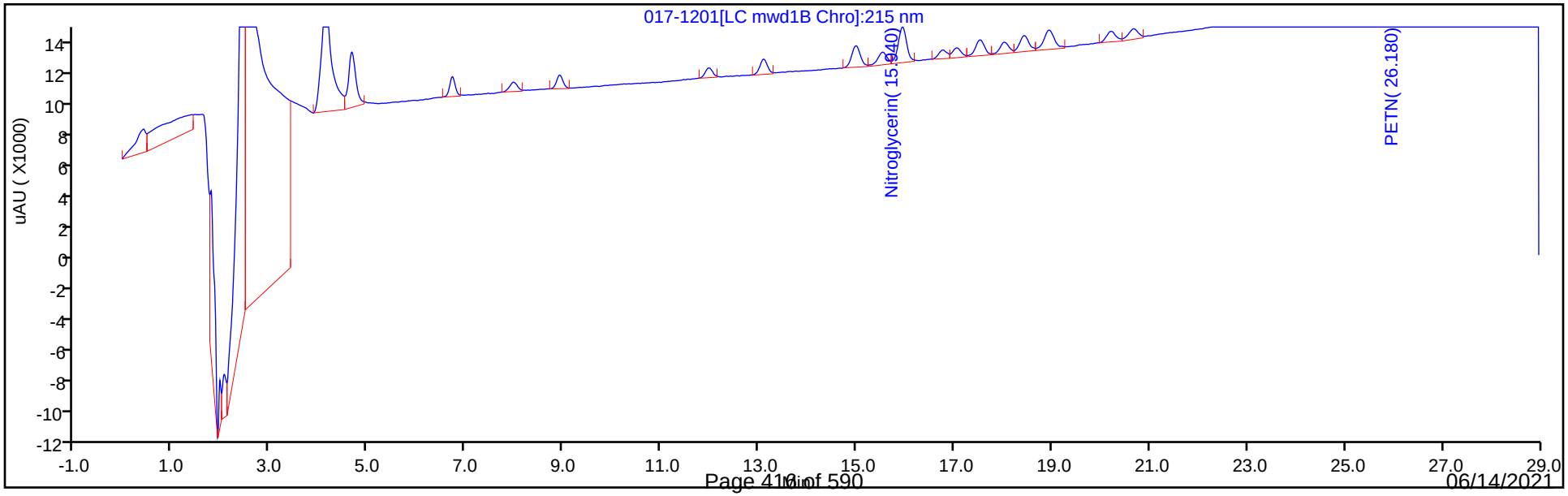
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\017-1201.D				
Injection Date:	01-May-2021 23:00:06	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 2			Worklist Smp#:	17
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

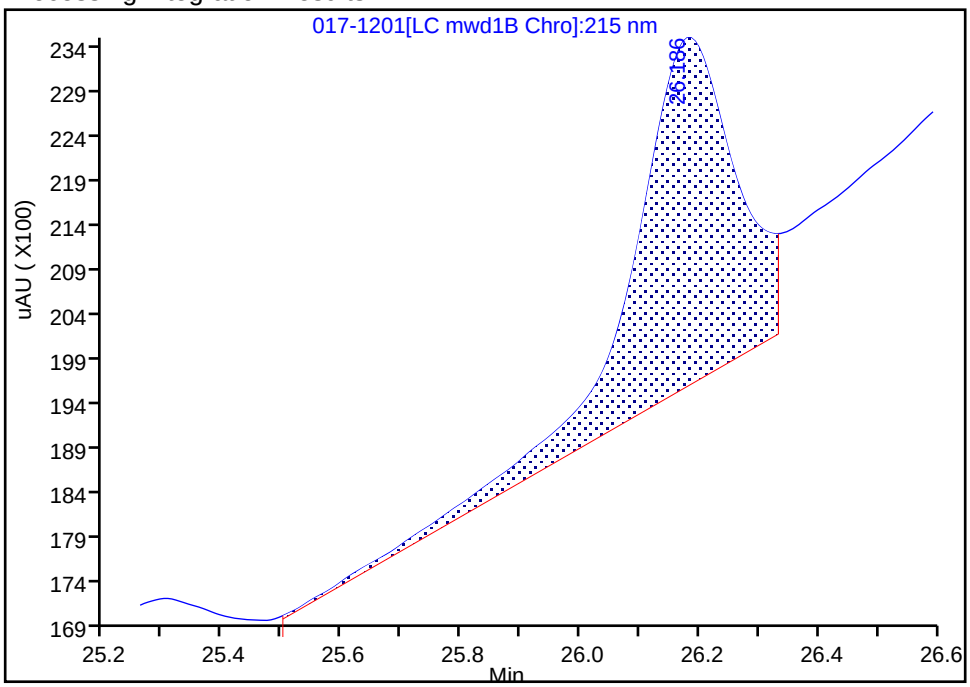
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\017-1201.D				
Injection Date:	01-May-2021 23:00:06	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 2				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

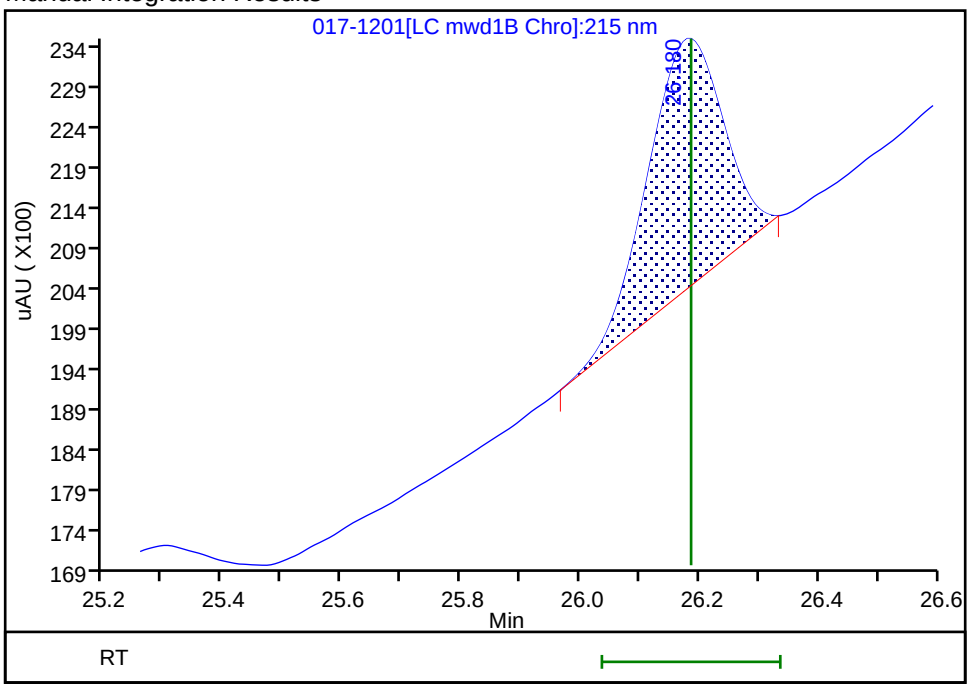
Processing Integration Results

RT: 26.19
Area: 47400
Amount: 0.217570
Amount Units: ug/ml



Manual Integration Results

RT: 26.18
Area: 27436
Amount: 0.199186
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:41:08

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\018-1301.D
Lims ID: IC INT/ADD 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-May-2021 23:35:08 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/ADD 1
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:43:15 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:42:55

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.144	4.126	0.018	8029	0.0100	0.0101	
2 2,4-diamino-6-nitrotoluene	1	4.684	4.653	0.031	3655	0.0100	0.0099	
6 HMX	1	6.724	6.713	0.011	2543	0.0100	0.009840	
5 2,4,6-Trinitrophenol	1	8.004	7.933	0.071	1789	0.0100	0.0112	
8 RDX	1	8.918	8.906	0.012	2988	0.0100	0.0146	
9 Nitrobenzene	1	11.978	11.973	0.005	4507	0.0100	0.0120	
$ 10 1,2-Dinitrobenzene	1	13.104	13.093	0.011	4082	0.0100	0.0154	
11 3,5-Dinitroaniline	1	14.978	14.979	-0.001	5594	0.0100	0.0103	
12 1,3-Dinitrobenzene	1	15.524	15.519	0.005	7085	0.0100	0.0101	
13 Nitroglycerin	2	15.924	15.939	-0.015	16401	0.1000	0.1275	
14 o-Nitrotoluene	1	16.751	16.759	-0.008	3022	0.0100	0.0121	
15 p-Nitrotoluene	1	17.031	17.046	-0.015	2608	0.0100	0.0120	
16 4-Amino-2,6-dinitrotoluene	1	17.511	17.526	-0.015	3954	0.0100	0.0133	
17 m-Nitrotoluene	1	17.978	18.026	-0.048	3517	0.0100	0.0126	
18 2-Amino-4,6-dinitrotoluene	1	18.418	18.426	-0.008	5148	0.0100	0.0100	
19 1,3,5-Trinitrobenzene	1	18.904	18.939	-0.035	7116	0.0100	0.0103	
20 2,6-Dinitrotoluene	1	20.191	20.199	-0.008	3555	0.0100	0.0102	
21 2,4-Dinitrotoluene	1	20.644	20.666	-0.022	6619	0.0100	0.0117	
22 Tetryl	1	24.271	24.313	-0.042	5245	0.0100	0.0106	
23 2,4,6-Trinitrotoluene	1	25.258	25.280	-0.022	5469	0.0100	0.0105	
24 PETN	2	26.151	26.186	-0.035	15659	0.1000	0.1137	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

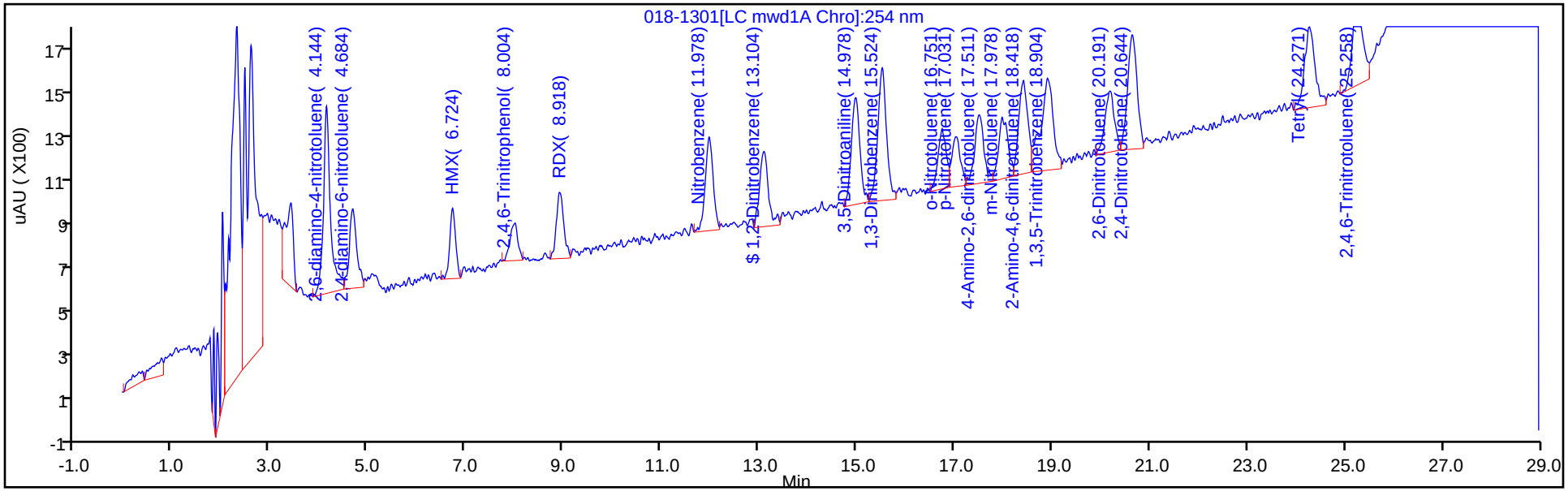
8330IntermStk_00067	Amount Added:	1.00	Units: uL
8330_ADDs_00027	Amount Added:	0.50	Units: uL

Report Date: 04-May-2021 13:43:16 Chrom Revision: 2.3 08-Apr-2021 17:17:48

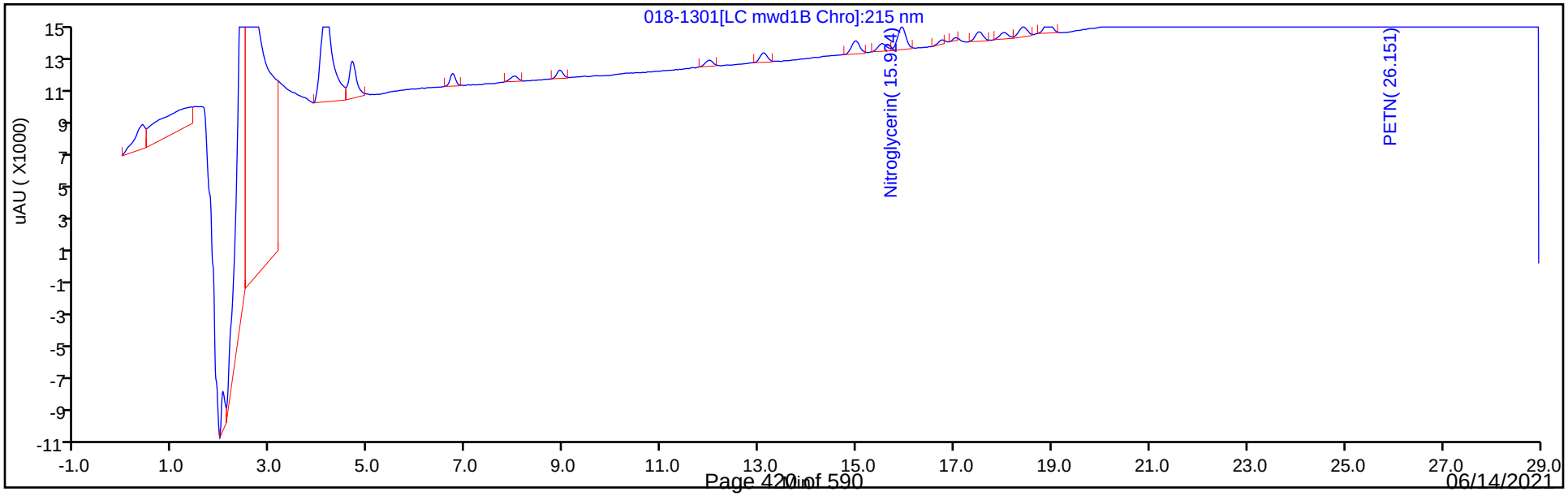
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\018-1301.D				
Injection Date:	01-May-2021 23:35:08	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC INT/ADD 1			Worklist Smp#:	18
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

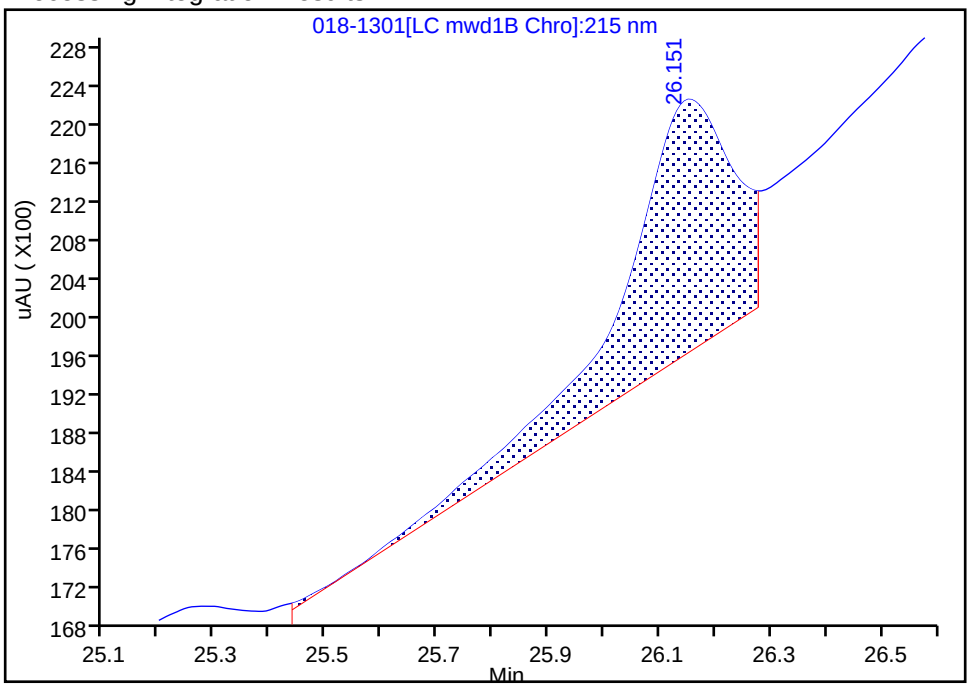
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\018-1301.D				
Injection Date:	01-May-2021 23:35:08	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT/ADD 1				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

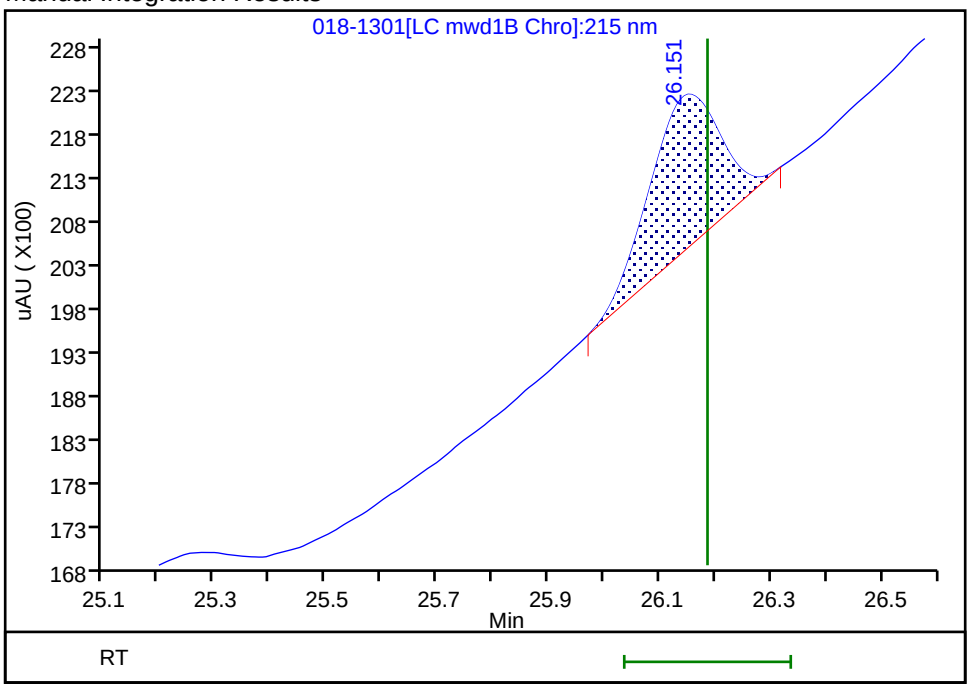
Processing Integration Results

RT: 26.15
Area: 35908
Amount: 0.224090
Amount Units: ug/ml



Manual Integration Results

RT: 26.15
Area: 15659
Amount: 0.113685
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:41:16

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Calibration / HMX

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

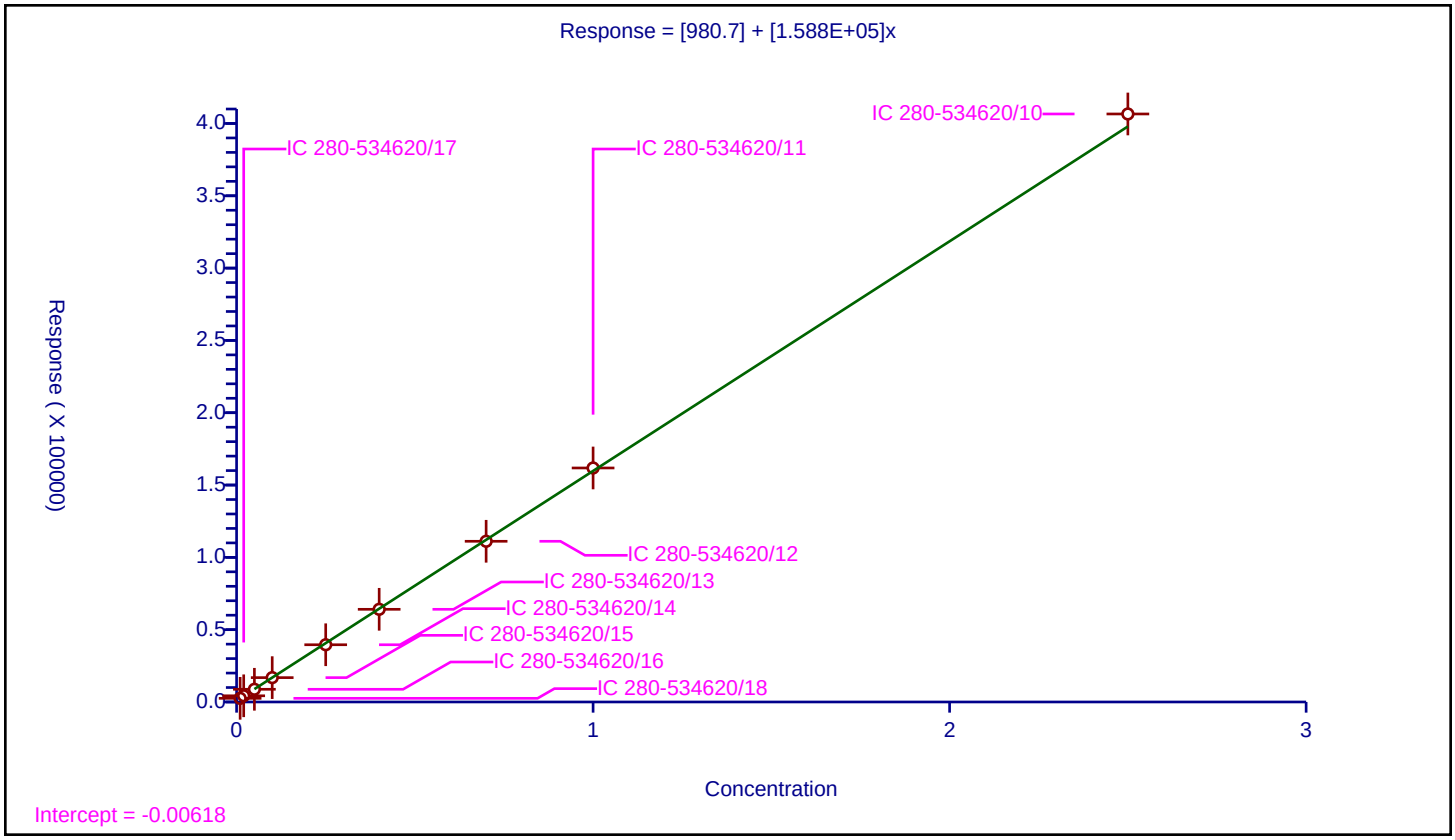
Curve Coefficients

Intercept:	980.7
Slope:	1.588E+05

Error Coefficients

Standard Error:	3410
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01	2543.0			254300.0	Y
2	IC 280-534620/17	0.02	4286.0			214300.0	Y
3	IC 280-534620/16	0.05	8791.0			175820.0	Y
4	IC 280-534620/15	0.1	16850.0			168500.0	Y
5	IC 280-534620/14	0.25	39580.0			158320.0	Y
6	IC 280-534620/13	0.4	64089.0			160222.5	Y
7	IC 280-534620/12	0.7	111120.0			158742.857143	Y
8	IC 280-534620/11	1.0	161798.0			161798.0	Y
9	IC 280-534620/10	2.5	406565.0			162626.0	Y



Calibration / 2,4,6-Trinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

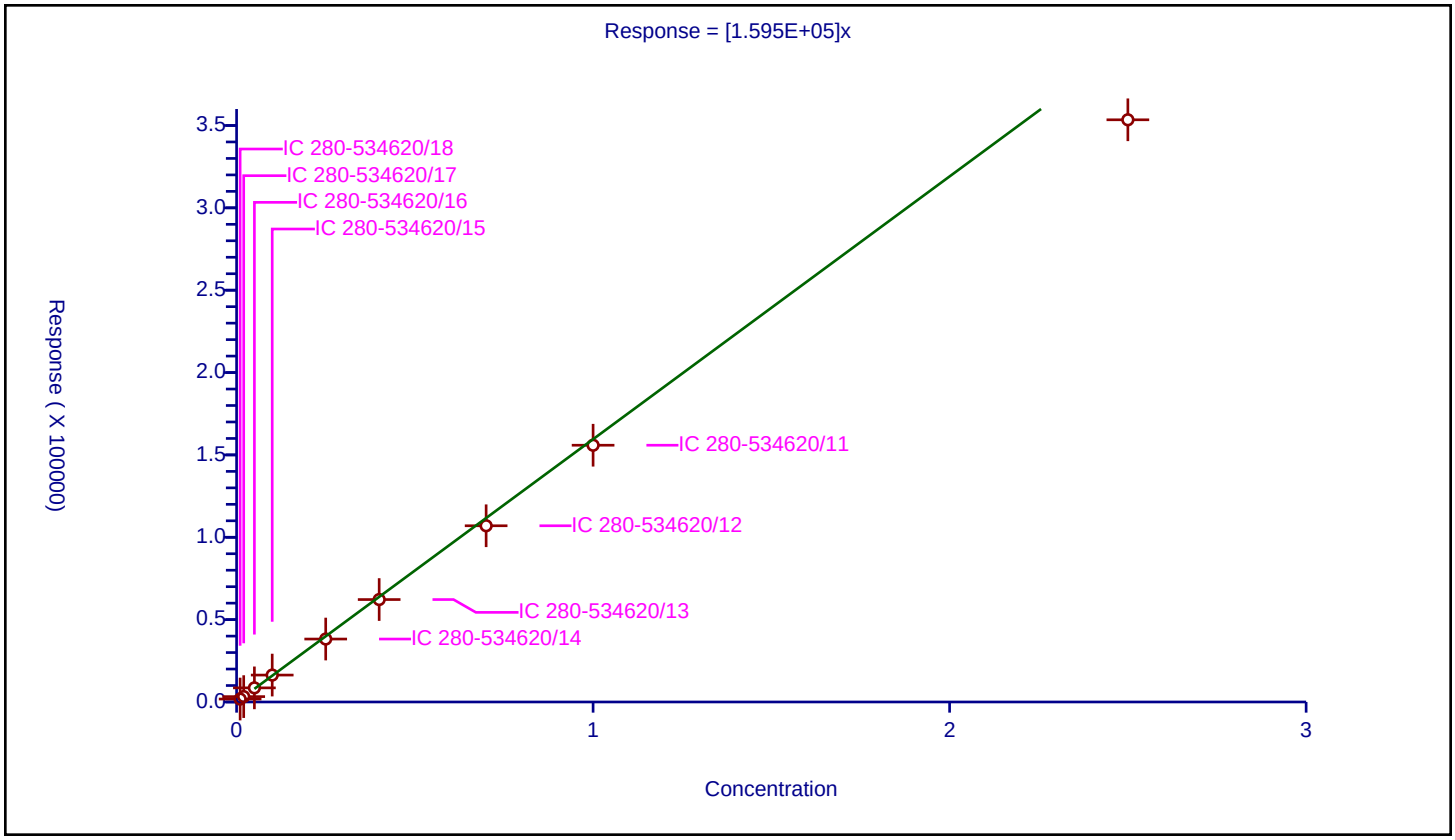
Curve Coefficients

Intercept:	0
Slope:	1.595E+05

Error Coefficients

Standard Error:	16200
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01	1789.0			178900.0	Y
2	IC 280-534620/17	0.02	3270.0			163500.0	Y
3	IC 280-534620/16	0.05	8578.0			171560.0	Y
4	IC 280-534620/15	0.1	16340.0			163400.0	Y
5	IC 280-534620/14	0.25	38222.0			152888.0	Y
6	IC 280-534620/13	0.4	62190.0			155475.0	Y
7	IC 280-534620/12	0.7	106987.0			152838.571429	Y
8	IC 280-534620/11	1.0	155884.0			155884.0	Y
9	IC 280-534620/10	2.5	353462.0			141384.8	Y



Calibration / RDX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

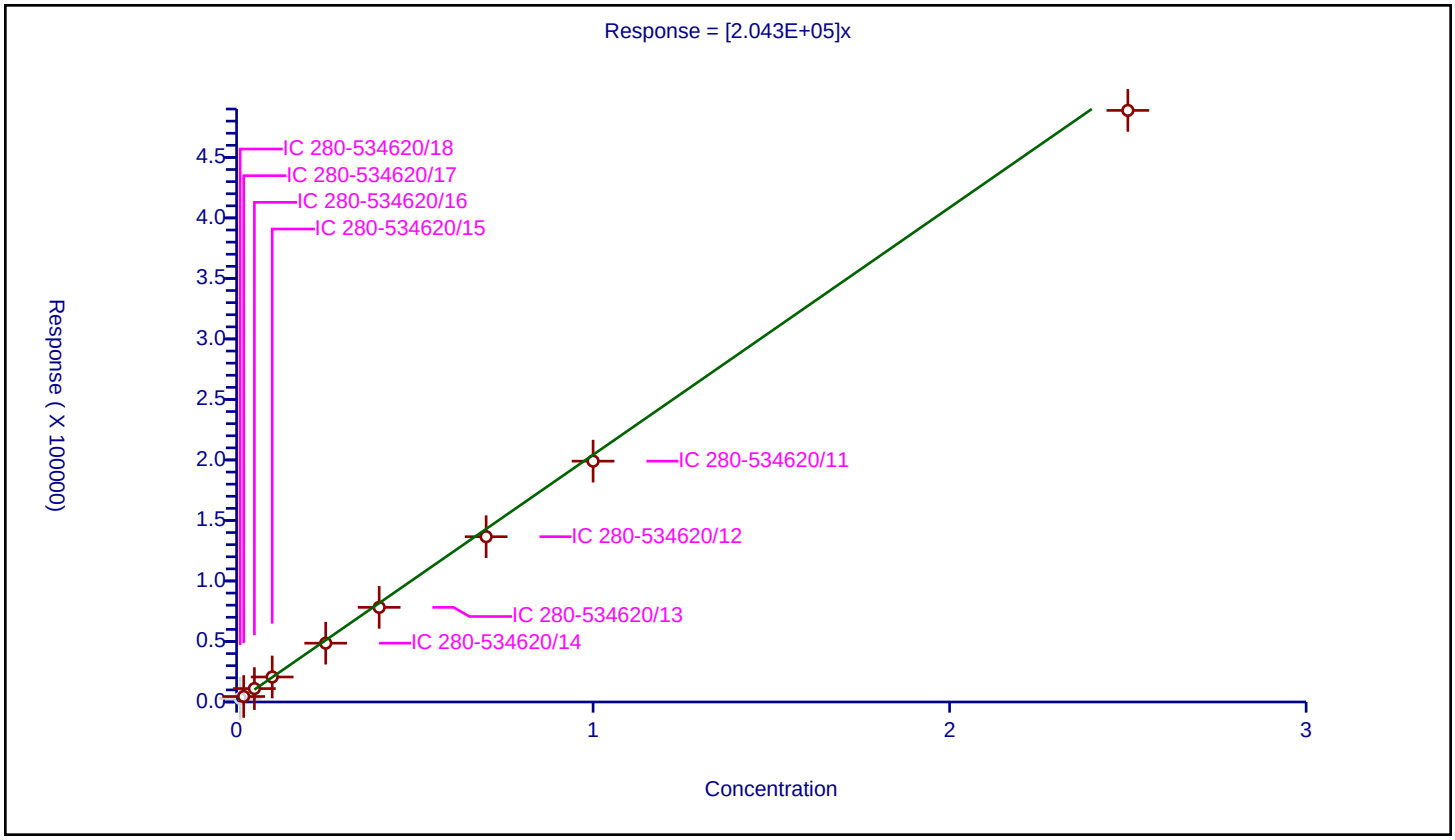
Curve Coefficients

Intercept:	0
Slope:	2.043E+05

Error Coefficients

Standard Error:	8980
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01	2988.0			298800.0	N
2	IC 280-534620/17	0.02	4533.0			226650.0	Y
3	IC 280-534620/16	0.05	11066.0			221320.0	Y
4	IC 280-534620/15	0.1	20661.0			206610.0	Y
5	IC 280-534620/14	0.25	48606.0			194424.0	Y
6	IC 280-534620/13	0.4	78185.0			195462.5	Y
7	IC 280-534620/12	0.7	136592.0			195131.428571	Y
8	IC 280-534620/11	1.0	199019.0			199019.0	Y
9	IC 280-534620/10	2.5	488855.0			195542.0	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

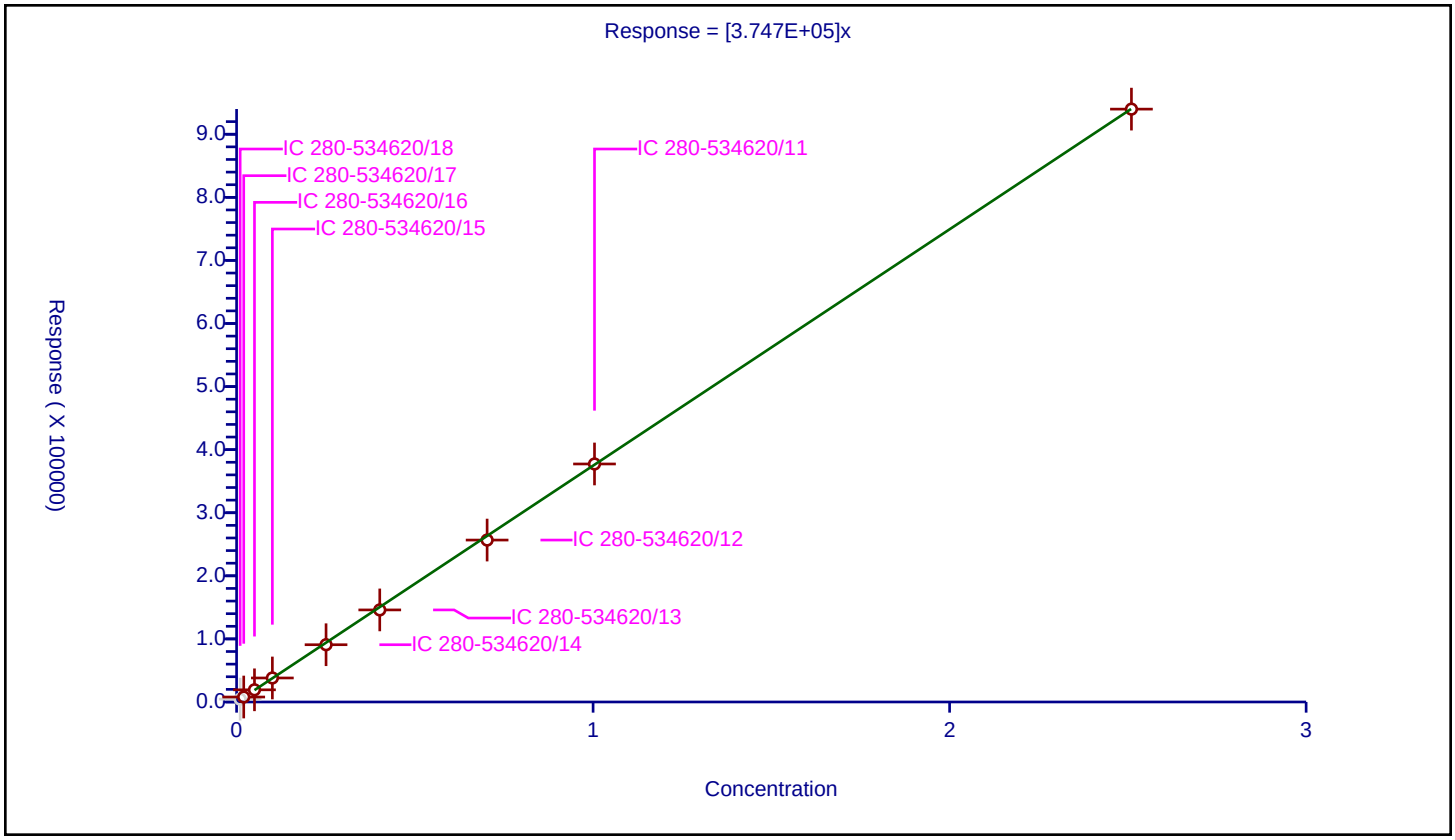
Curve Coefficients

Intercept:	0
Slope:	3.747E+05

Error Coefficients

Standard Error:	3320
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01004	4507.0			448904.38247	N
2	IC 280-534620/17	0.02008	7888.0			392828.685259	Y
3	IC 280-534620/16	0.0502	19306.0			384581.673307	Y
4	IC 280-534620/15	0.1004	38085.0			379332.669323	Y
5	IC 280-534620/14	0.251	90760.0			361593.625498	Y
6	IC 280-534620/13	0.4016	145926.0			363361.553785	Y
7	IC 280-534620/12	0.7028	256719.0			365280.307342	Y
8	IC 280-534620/11	1.004	377310.0			375806.772908	Y
9	IC 280-534620/10	2.51	939811.0			374426.693227	Y



Calibration / 1,2-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

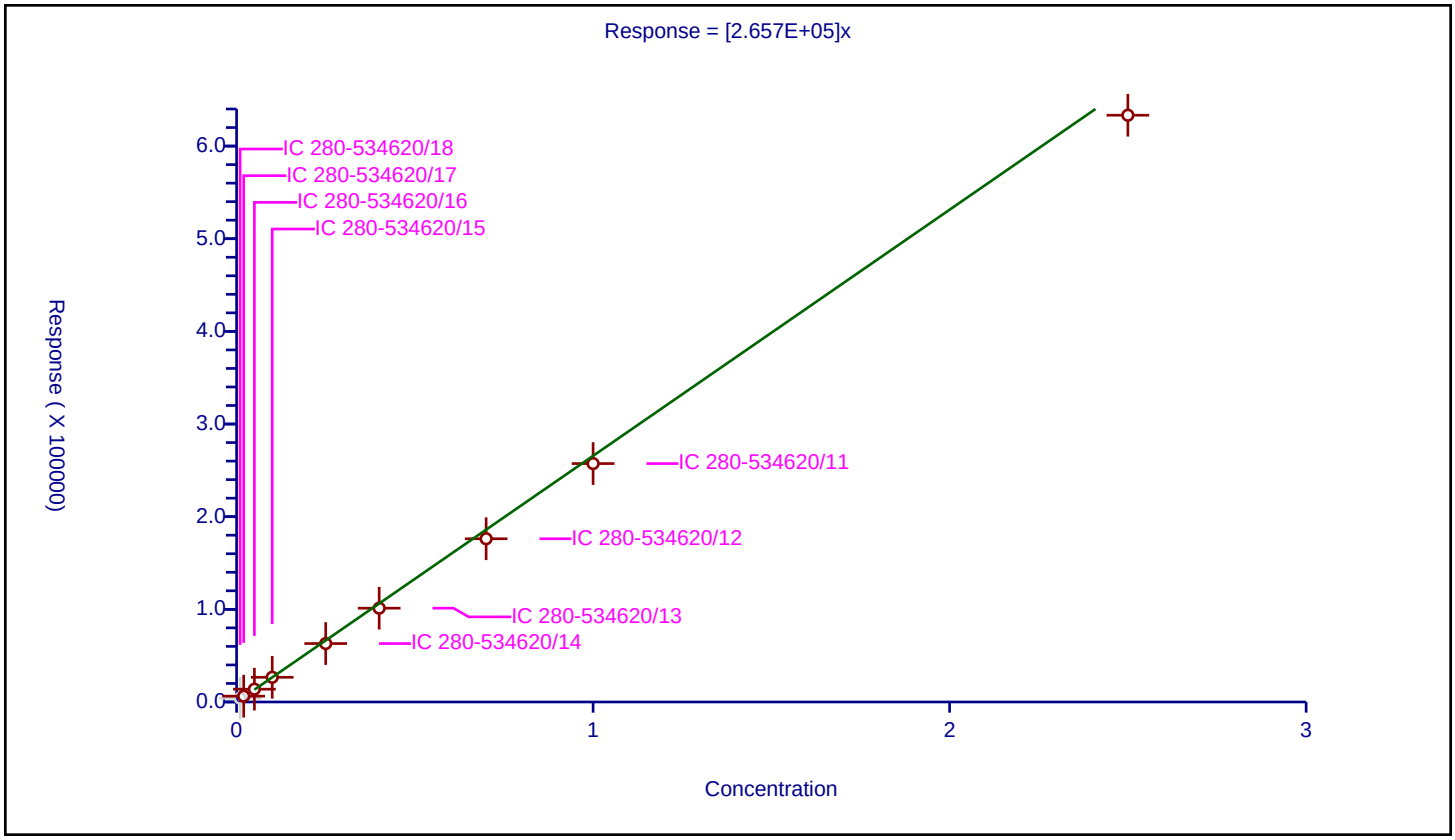
Curve Coefficients

Intercept:	0
Slope:	2.657E+05

Error Coefficients

Standard Error:	12800
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01	4082.0			408200.0	N
2	IC 280-534620/17	0.02	6280.0			314000.0	Y
3	IC 280-534620/16	0.05	13836.0			276720.0	Y
4	IC 280-534620/15	0.1	26678.0			266780.0	Y
5	IC 280-534620/14	0.25	63081.0			252324.0	Y
6	IC 280-534620/13	0.4	101248.0			253120.0	Y
7	IC 280-534620/12	0.7	176180.0			251685.714286	Y
8	IC 280-534620/11	1.0	257324.0			257324.0	Y
9	IC 280-534620/10	2.5	633300.0			253320.0	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

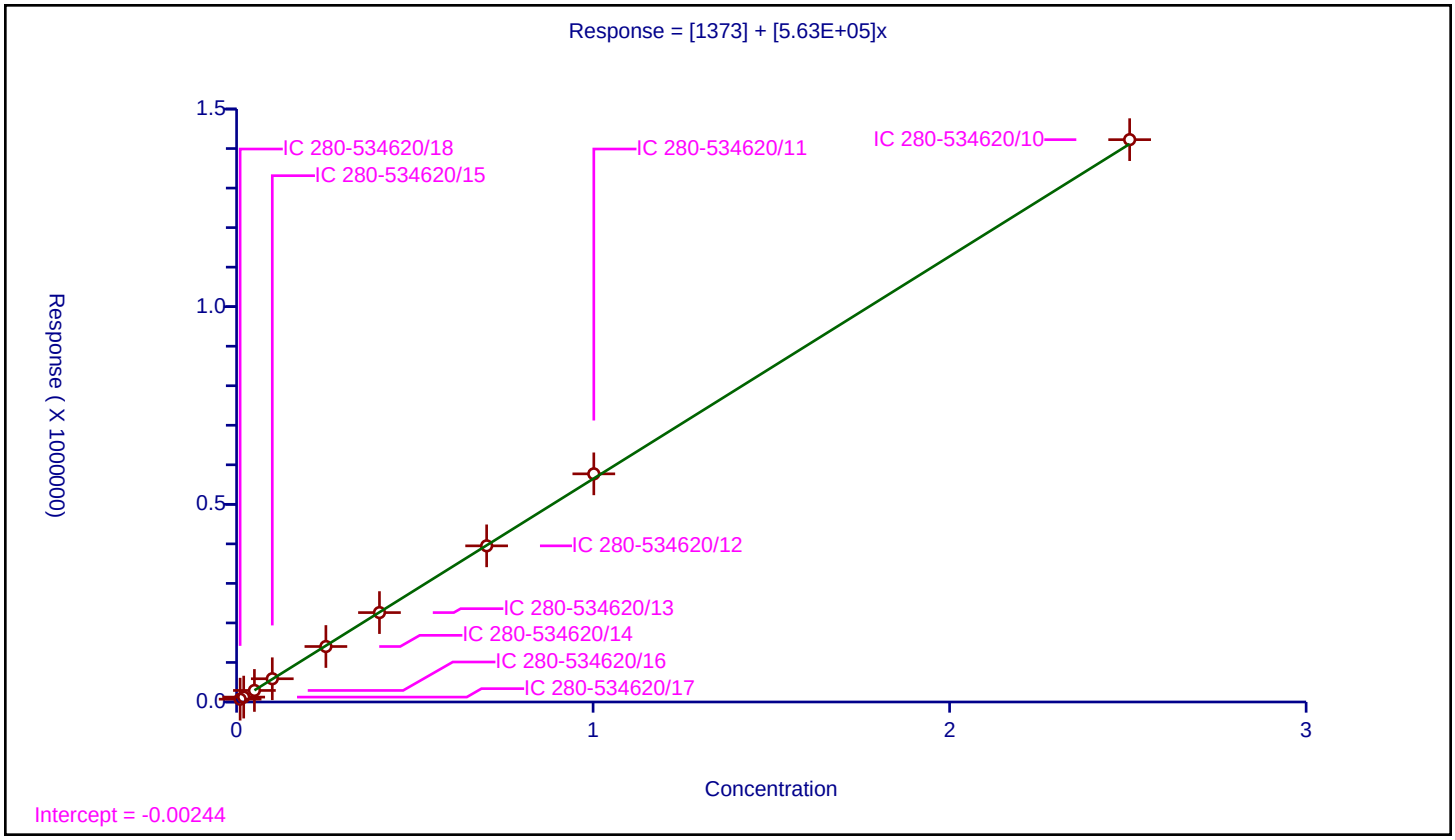
Curve Coefficients

Intercept:	1373
Slope:	5.63E+05

Error Coefficients

Standard Error:	6130
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01002	7085.0			707085.828343	Y
2	IC 280-534620/17	0.02004	12411.0			619311.377246	Y
3	IC 280-534620/16	0.0501	29142.0			581676.646707	Y
4	IC 280-534620/15	0.1002	58764.0			586467.065868	Y
5	IC 280-534620/14	0.2505	140347.0			560267.46507	Y
6	IC 280-534620/13	0.4008	226148.0			564241.516966	Y
7	IC 280-534620/12	0.7014	394975.0			563123.752495	Y
8	IC 280-534620/11	1.002	577120.0			575968.063872	Y
9	IC 280-534620/10	2.505	1422490.0			567860.279441	Y



Calibration / Nitroglycerin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

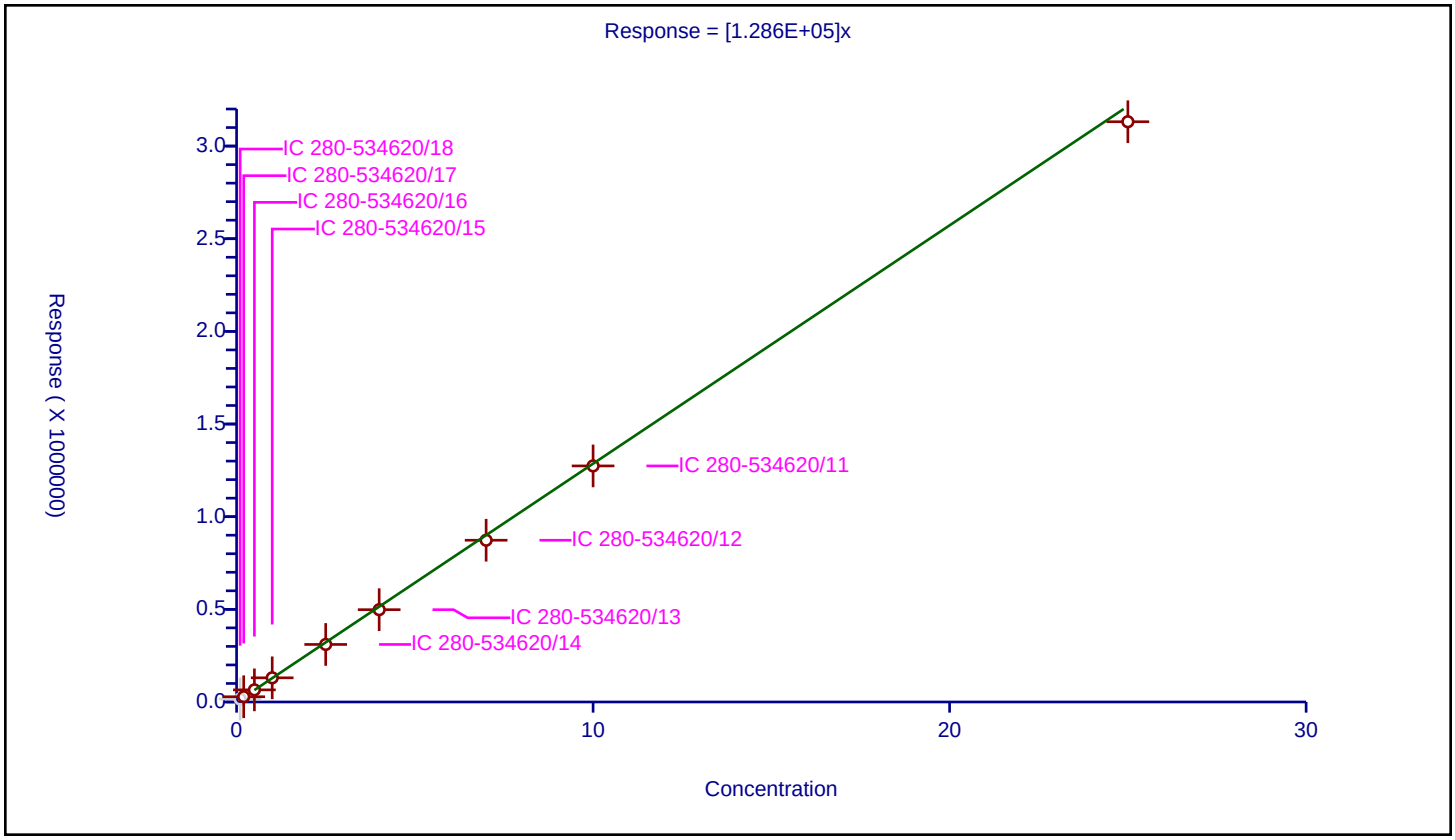
Curve Coefficients

Intercept:	0
Slope:	1.286E+05

Error Coefficients

Standard Error:	34400
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.1	16401.0			164010.0	N
2	IC 280-534620/17	0.2	28299.0			141495.0	Y
3	IC 280-534620/16	0.5	65416.0			130832.0	Y
4	IC 280-534620/15	1.0	130447.0			130447.0	Y
5	IC 280-534620/14	2.5	310480.0			124192.0	Y
6	IC 280-534620/13	4.0	498088.0			124522.0	Y
7	IC 280-534620/12	7.0	872941.0			124705.857143	Y
8	IC 280-534620/11	10.0	1273886.0			127388.6	Y
9	IC 280-534620/10	25.0	3131400.0			125256.0	Y



Calibration / o-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

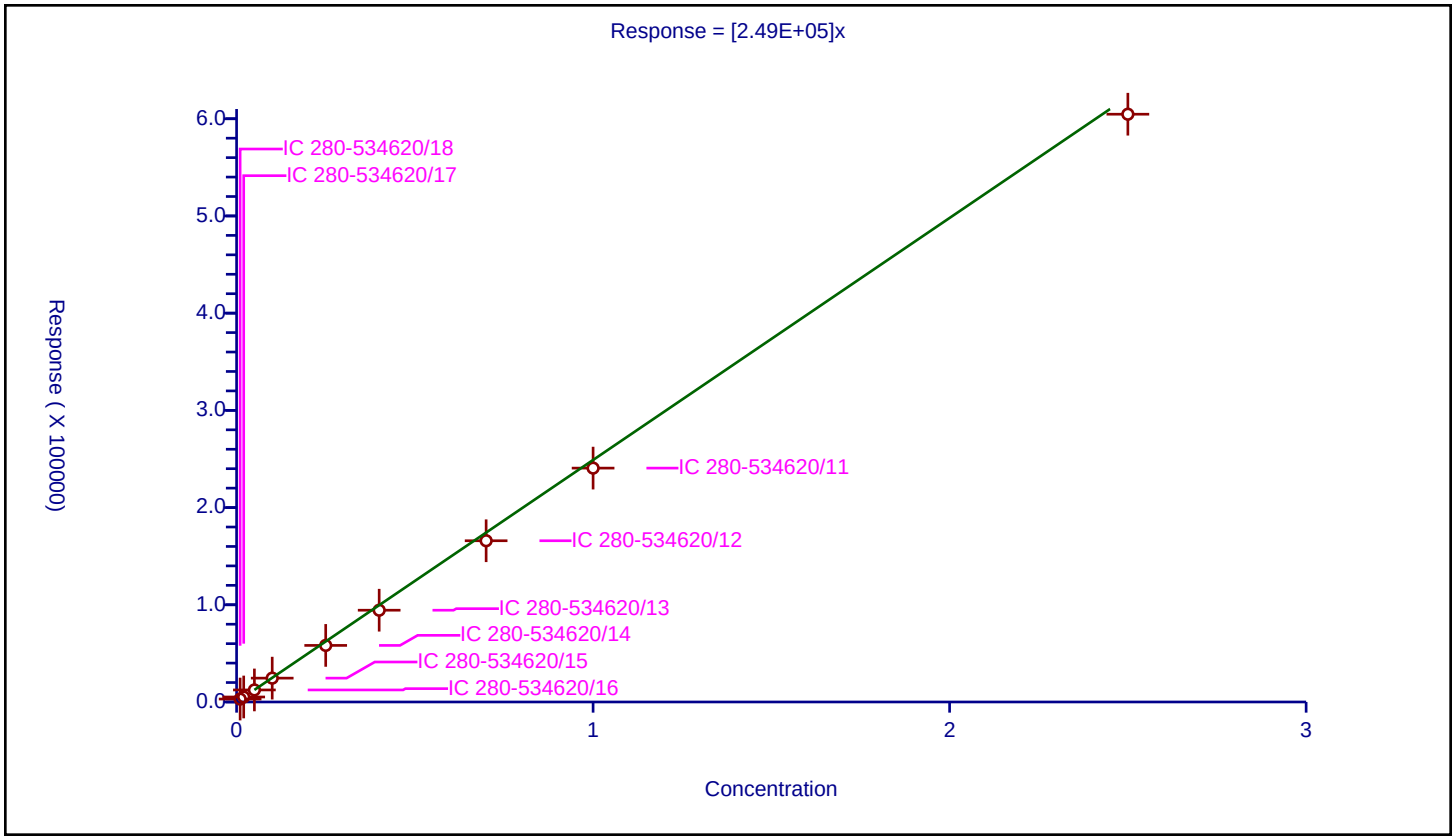
Curve Coefficients

Intercept:	0
Slope:	2.49E+05

Error Coefficients

Standard Error:	7910
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01	3022.0			302200.0	Y
2	IC 280-534620/17	0.02	5151.0			257550.0	Y
3	IC 280-534620/16	0.05	12373.0			247460.0	Y
4	IC 280-534620/15	0.1	24528.0			245280.0	Y
5	IC 280-534620/14	0.25	58191.0			232764.0	Y
6	IC 280-534620/13	0.4	94418.0			236045.0	Y
7	IC 280-534620/12	0.7	165863.0			236947.142857	Y
8	IC 280-534620/11	1.0	240595.0			240595.0	Y
9	IC 280-534620/10	2.5	604653.0			241861.2	Y



Calibration / p-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

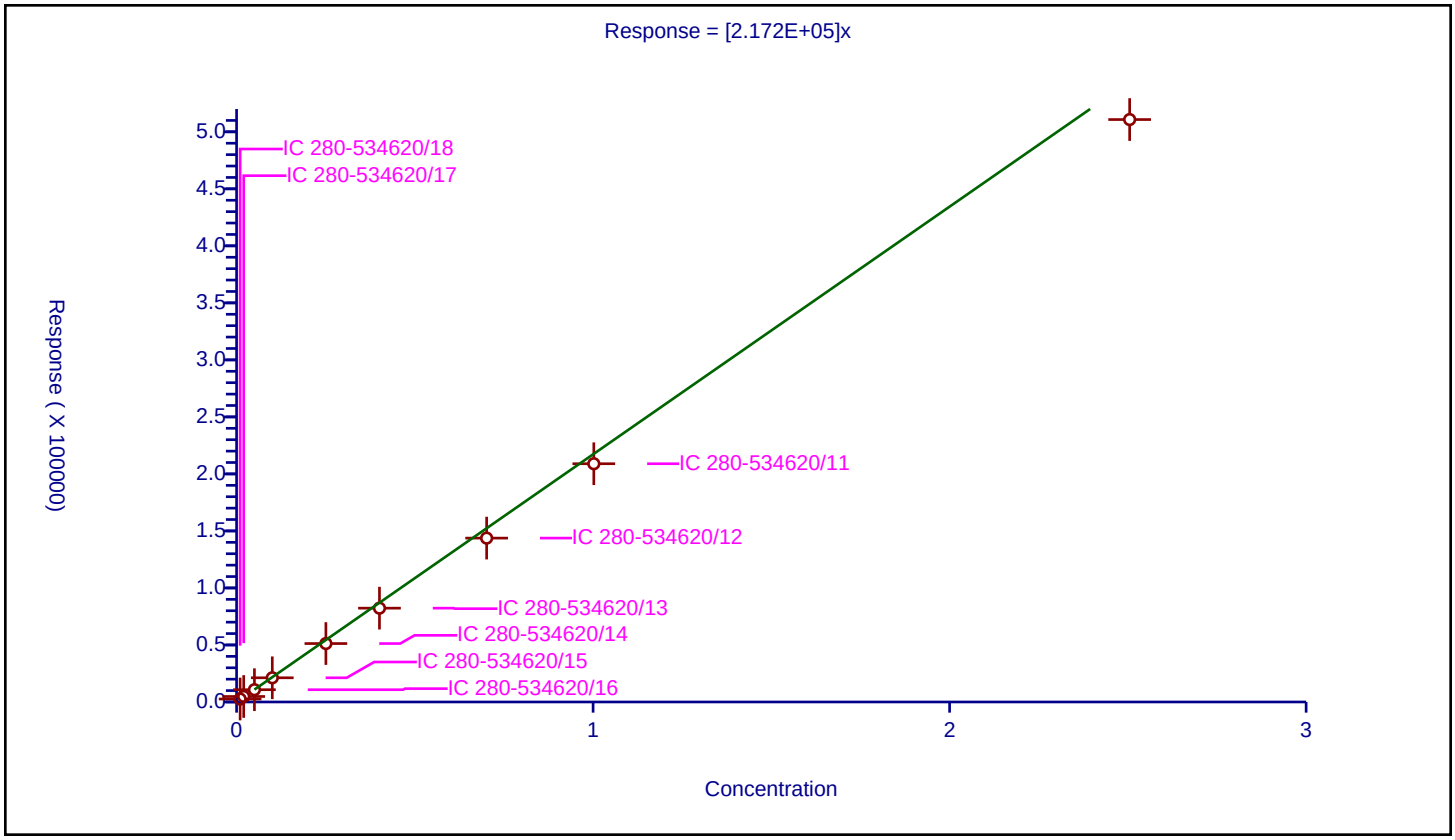
Curve Coefficients

Intercept:	0
Slope:	2.172E+05

Error Coefficients

Standard Error:	12700
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01002	2608.0			260279.441118	Y
2	IC 280-534620/17	0.02004	4823.0			240668.662675	Y
3	IC 280-534620/16	0.0501	10760.0			214770.459082	Y
4	IC 280-534620/15	0.1002	21221.0			211786.427146	Y
5	IC 280-534620/14	0.2505	51245.0			204570.858283	Y
6	IC 280-534620/13	0.4008	82281.0			205291.916168	Y
7	IC 280-534620/12	0.7014	143722.0			204907.328201	Y
8	IC 280-534620/11	1.002	208929.0			208511.976048	Y
9	IC 280-534620/10	2.505	510755.0			203894.211577	Y



Calibration / 4-Amino-2,6-dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

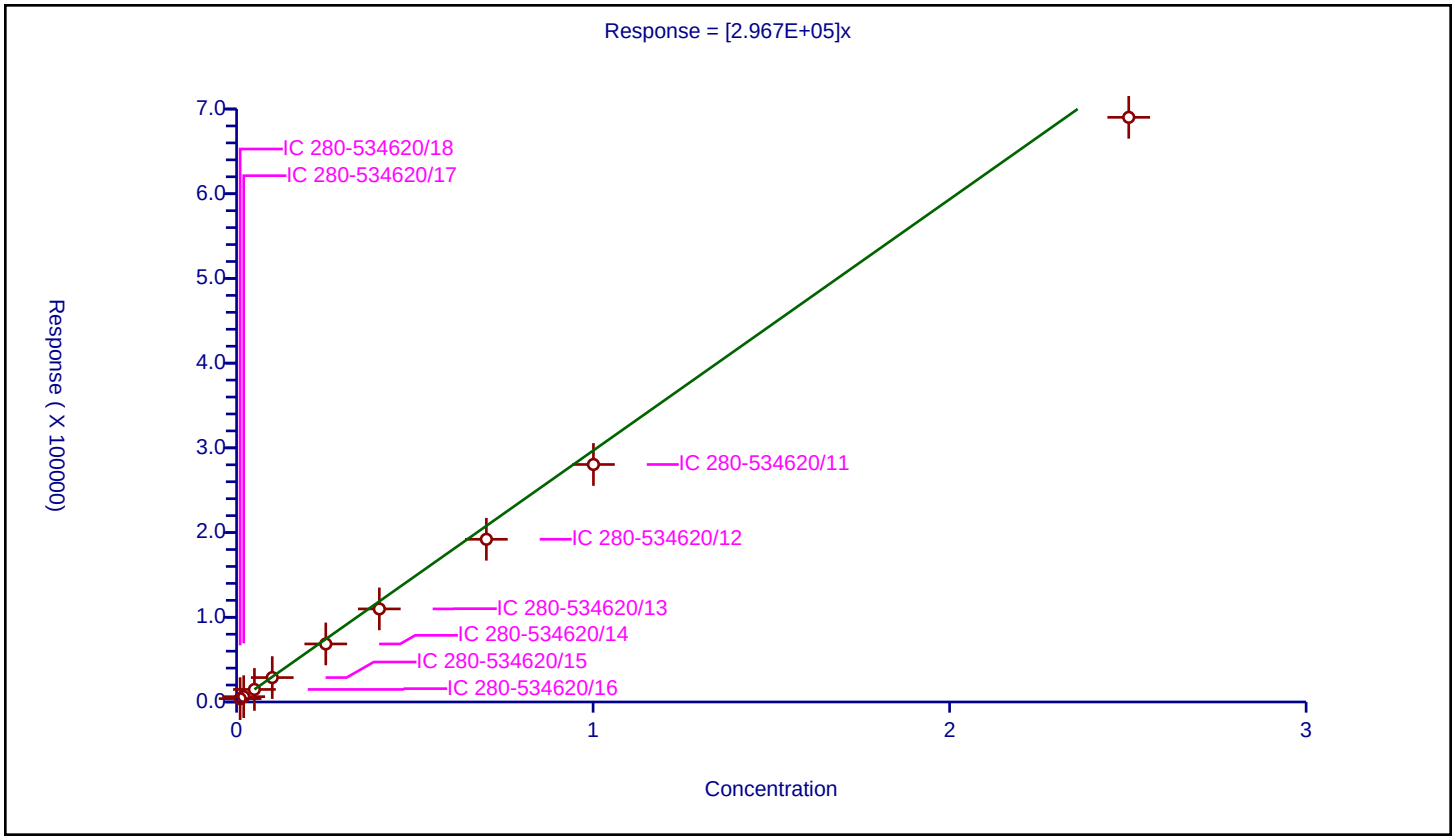
Curve Coefficients

Intercept:	0
Slope:	2.967E+05

Error Coefficients

Standard Error:	20600
Relative Standard Error:	13.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01001	3954.0			395004.995005	Y
2	IC 280-534620/17	0.02002	6276.0			313486.513487	Y
3	IC 280-534620/16	0.05005	14802.0			295744.255744	Y
4	IC 280-534620/15	0.1001	28819.0			287902.097902	Y
5	IC 280-534620/14	0.25025	68509.0			273762.237762	Y
6	IC 280-534620/13	0.4004	109890.0			274450.549451	Y
7	IC 280-534620/12	0.7007	192075.0			274118.738404	Y
8	IC 280-534620/11	1.001	280366.0			280085.914086	Y
9	IC 280-534620/10	2.5025	690165.0			275790.20979	Y



Calibration / m-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

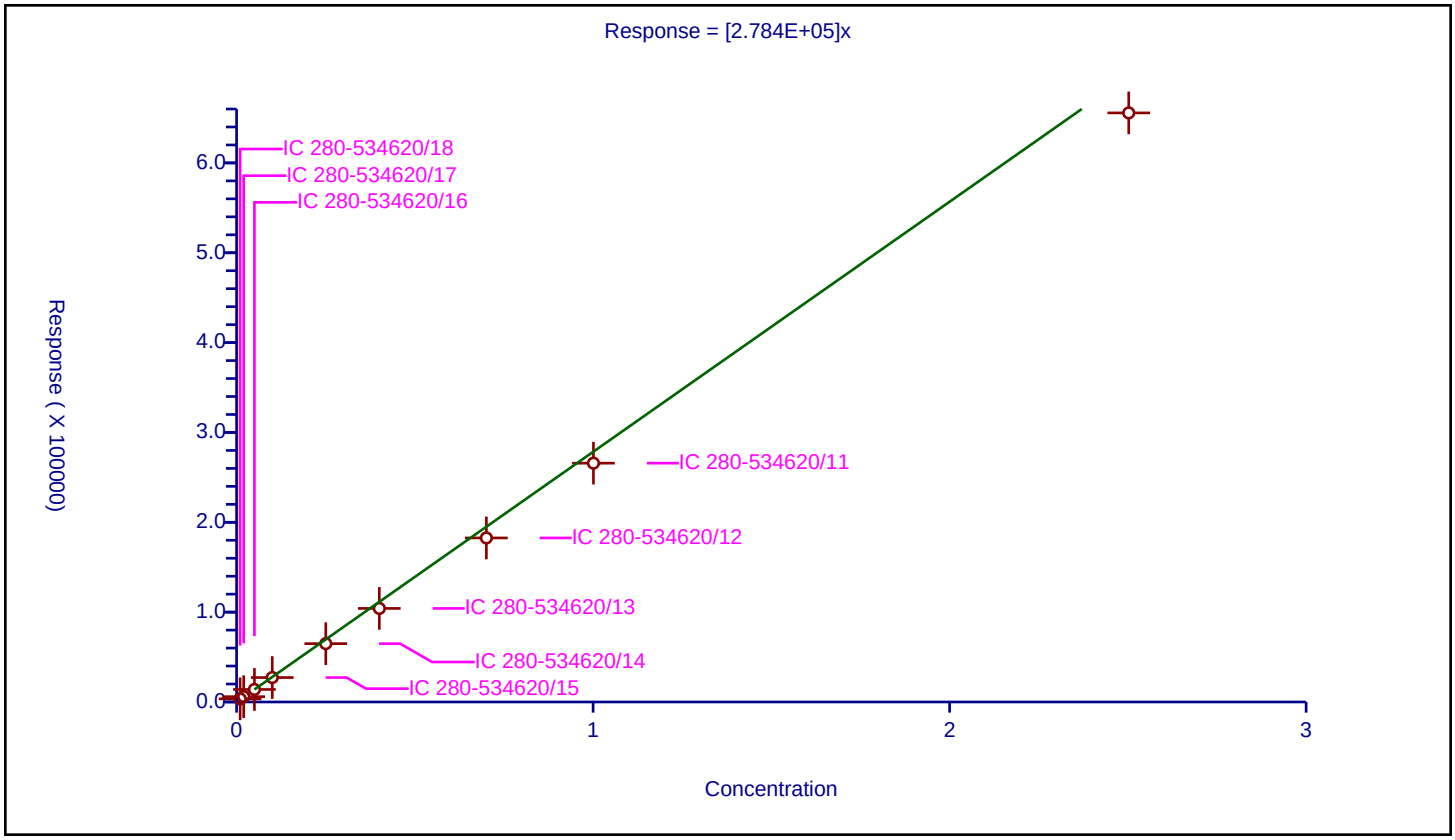
Curve Coefficients

Intercept:	0
Slope:	2.784E+05

Error Coefficients

Standard Error:	16100
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01001	3517.0			351348.651349	Y
2	IC 280-534620/17	0.02002	5928.0			296103.896104	Y
3	IC 280-534620/16	0.05005	13943.0			278581.418581	Y
4	IC 280-534620/15	0.1001	27212.0			271848.151848	Y
5	IC 280-534620/14	0.25025	64933.0			259472.527473	Y
6	IC 280-534620/13	0.4004	104128.0			260059.94006	Y
7	IC 280-534620/12	0.7007	182587.0			260577.993435	Y
8	IC 280-534620/11	1.001	265803.0			265537.462537	Y
9	IC 280-534620/10	2.5025	655662.0			262002.797203	Y



Calibration / 2-Amino-4,6-dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

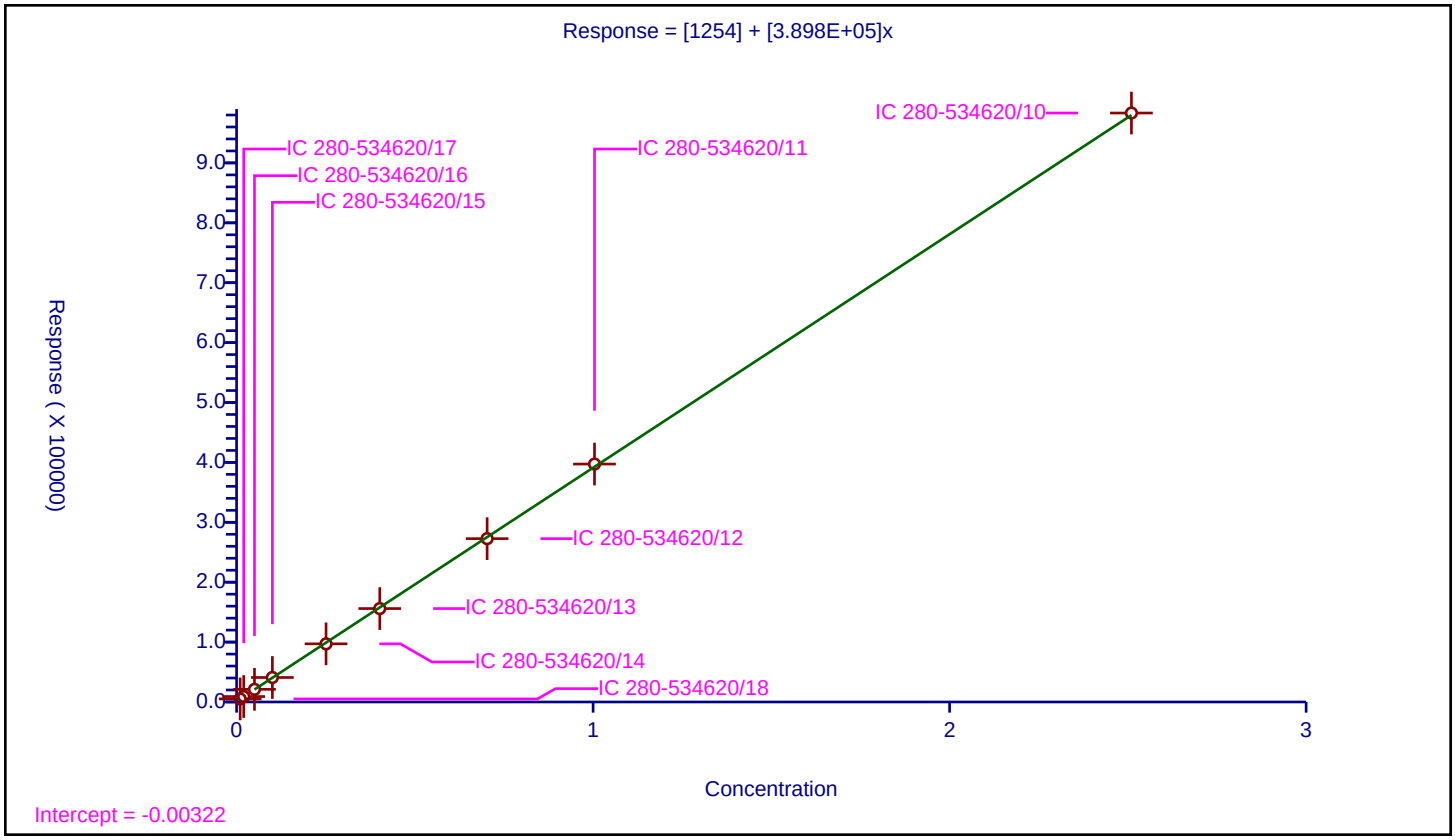
Curve Coefficients

Intercept:	1254
Slope:	3.898E+05

Error Coefficients

Standard Error:	2610
Relative Standard Error:	1.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01004	5148.0			512749.003984	Y
2	IC 280-534620/17	0.02008	9114.0			453884.462151	Y
3	IC 280-534620/16	0.0502	21111.0			420537.848606	Y
4	IC 280-534620/15	0.1004	40904.0			407410.358566	Y
5	IC 280-534620/14	0.251	97071.0			386737.051793	Y
6	IC 280-534620/13	0.4016	155961.0			388349.103586	Y
7	IC 280-534620/12	0.7028	272718.0			388044.963005	Y
8	IC 280-534620/11	1.004	397243.0			395660.358566	Y
9	IC 280-534620/10	2.51	983275.0			391743.027888	Y



Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

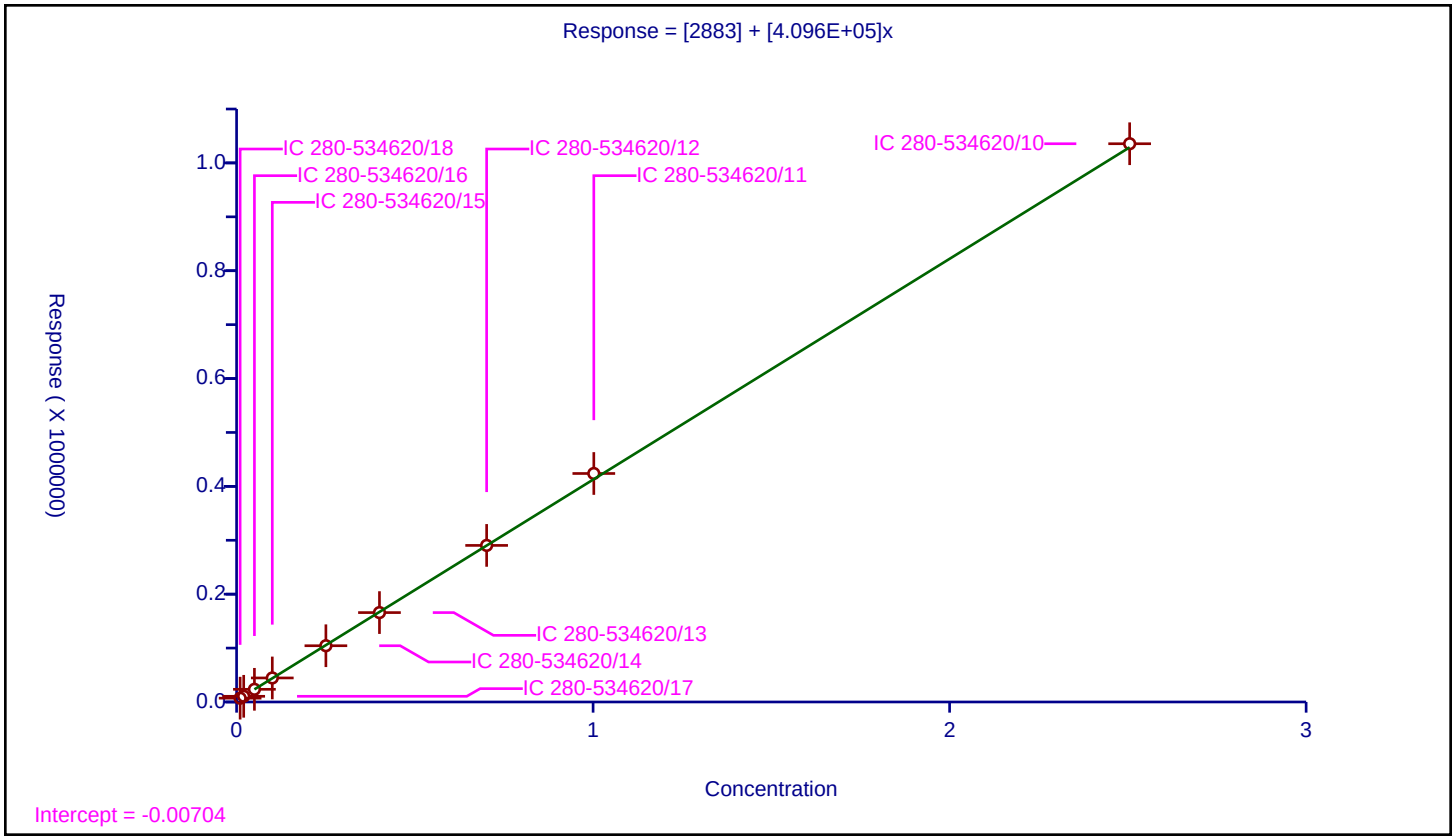
Curve Coefficients

Intercept:	2883
Slope:	4.096E+05

Error Coefficients

Standard Error:	4780
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01002	7116.0			710179.640719	Y
2	IC 280-534620/17	0.02004	10540.0			525948.103792	Y
3	IC 280-534620/16	0.0501	23506.0			469181.636727	Y
4	IC 280-534620/15	0.1002	44594.0			445049.9002	Y
5	IC 280-534620/14	0.2505	104344.0			416542.914172	Y
6	IC 280-534620/13	0.4008	165828.0			413742.51497	Y
7	IC 280-534620/12	0.7014	290458.0			414111.776447	Y
8	IC 280-534620/11	1.002	423869.0			423022.954092	Y
9	IC 280-534620/10	2.505	1035616.0			413419.560878	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

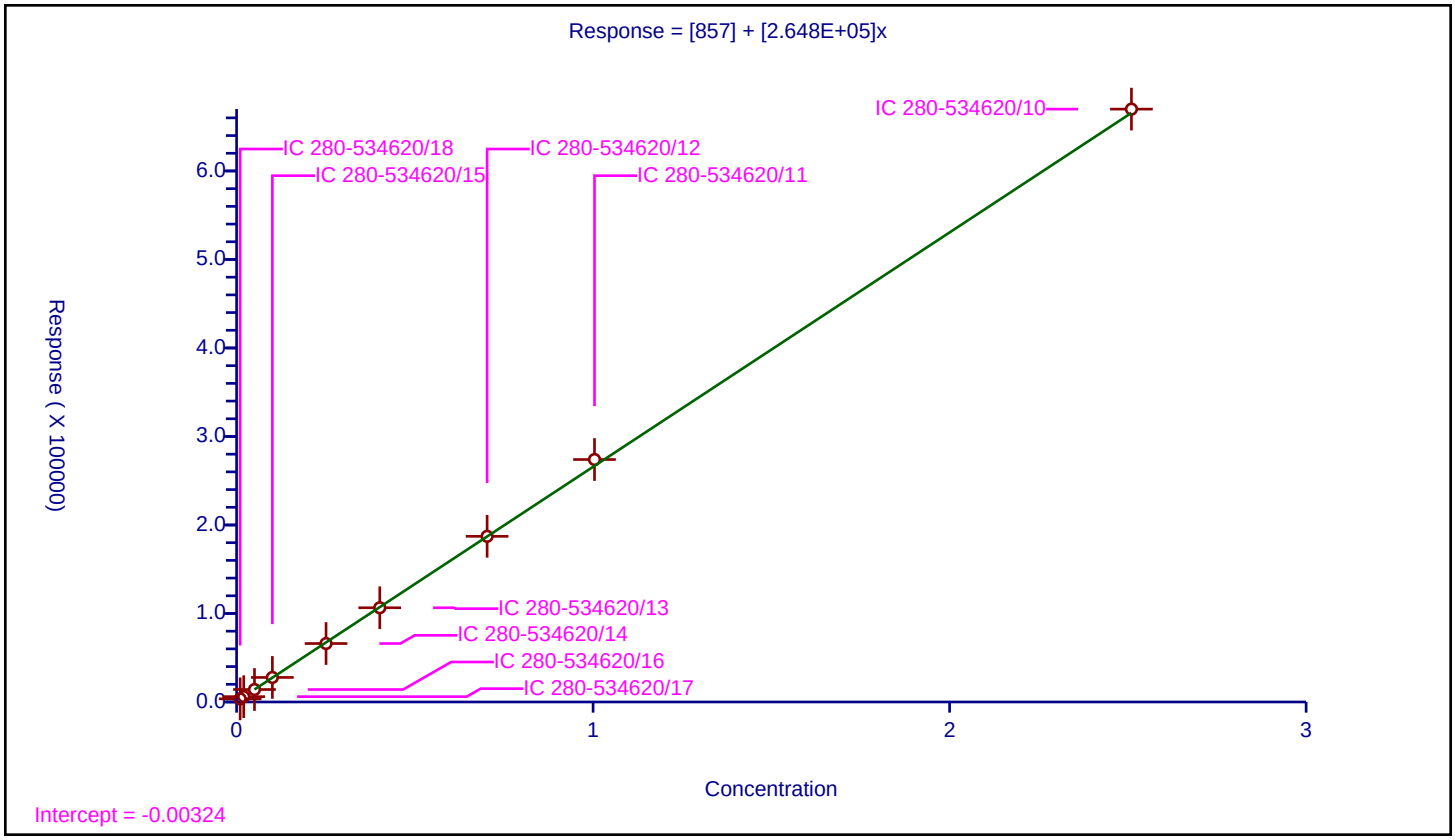
Curve Coefficients

Intercept:	857
Slope:	2.648E+05

Error Coefficients

Standard Error:	3220
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01004	3555.0			354083.665339	Y
2	IC 280-534620/17	0.02008	6026.0			300099.601594	Y
3	IC 280-534620/16	0.0502	14081.0			280498.007968	Y
4	IC 280-534620/15	0.1004	27721.0			276105.577689	Y
5	IC 280-534620/14	0.251	66062.0			263195.219124	Y
6	IC 280-534620/13	0.4016	106452.0			265069.721116	Y
7	IC 280-534620/12	0.7028	187184.0			266340.352874	Y
8	IC 280-534620/11	1.004	273958.0			272866.533865	Y
9	IC 280-534620/10	2.51	669889.0			266888.047809	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

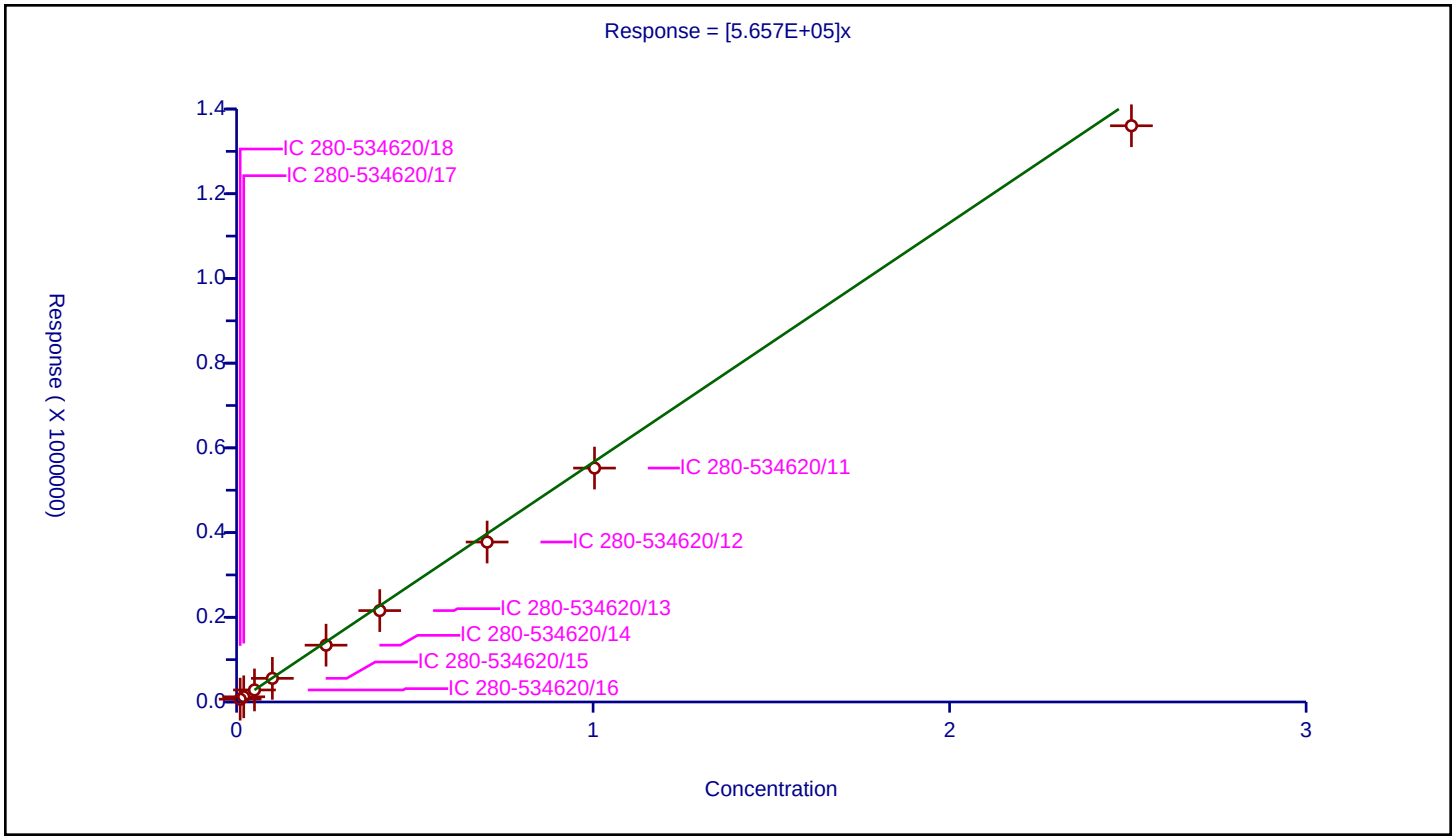
Curve Coefficients

Intercept:	0
Slope:	5.657E+05

Error Coefficients

Standard Error:	23400
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01004	6619.0			659262.948207	Y
2	IC 280-534620/17	0.02008	12229.0			609013.944223	Y
3	IC 280-534620/16	0.0502	28396.0			565657.370518	Y
4	IC 280-534620/15	0.1004	55838.0			556155.378486	Y
5	IC 280-534620/14	0.251	134163.0			534513.944223	Y
6	IC 280-534620/13	0.4016	215819.0			537397.908367	Y
7	IC 280-534620/12	0.7028	377631.0			537323.562891	Y
8	IC 280-534620/11	1.004	552269.0			550068.7251	Y
9	IC 280-534620/10	2.51	1360486.0			542026.294821	Y



Calibration / Tetryl

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

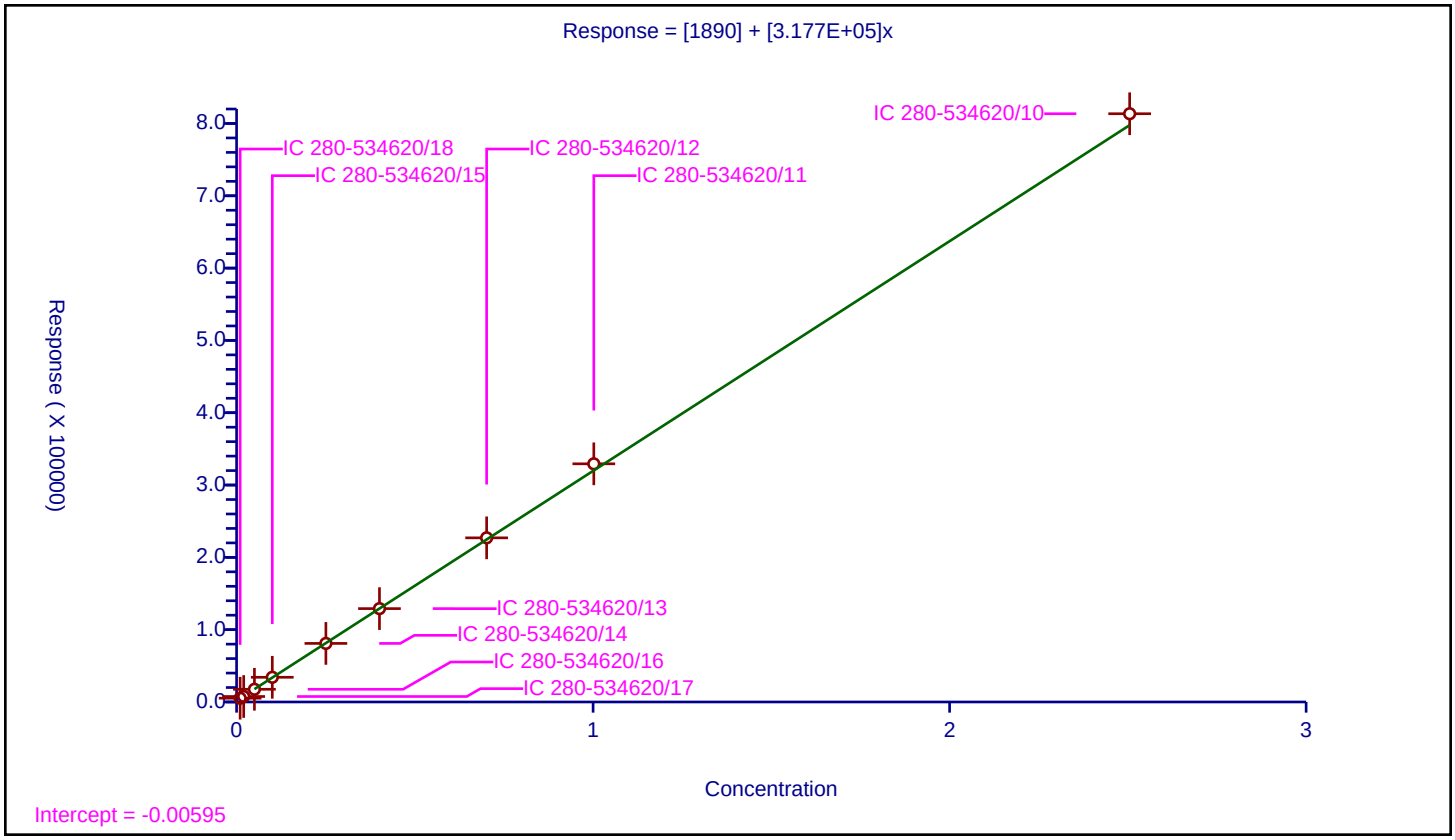
Curve Coefficients

Intercept:	1890
Slope:	3.177E+05

Error Coefficients

Standard Error:	6990
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01002	5245.0			523453.093812	Y
2	IC 280-534620/17	0.02004	7583.0			378393.213573	Y
3	IC 280-534620/16	0.0501	17573.0			350758.483034	Y
4	IC 280-534620/15	0.1002	34148.0			340798.403194	Y
5	IC 280-534620/14	0.2505	80996.0			323337.325349	Y
6	IC 280-534620/13	0.4008	129140.0			322205.588822	Y
7	IC 280-534620/12	0.7014	227001.0			323639.863131	Y
8	IC 280-534620/11	1.002	329366.0			328708.582834	Y
9	IC 280-534620/10	2.505	813489.0			324746.107784	Y



Calibration / 2,4,6-Trinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

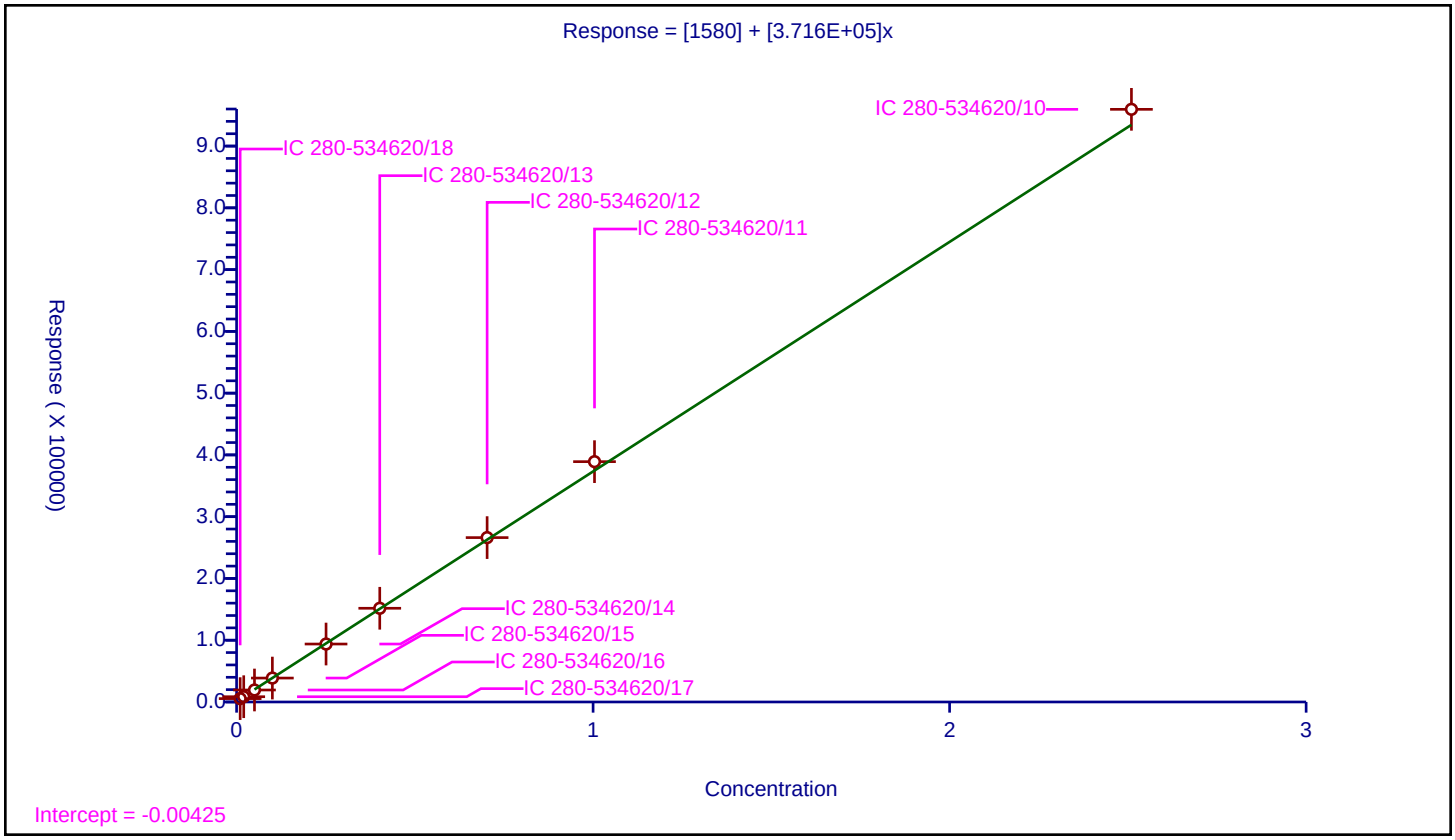
Curve Coefficients

Intercept:	1580
Slope:	3.716E+05

Error Coefficients

Standard Error:	11000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.01004	5469.0			544721.115538	Y
2	IC 280-534620/17	0.02008	8548.0			425697.211155	Y
3	IC 280-534620/16	0.0502	19400.0			386454.183267	Y
4	IC 280-534620/15	0.1004	38740.0			385856.573705	Y
5	IC 280-534620/14	0.251	93822.0			373792.828685	Y
6	IC 280-534620/13	0.4016	151709.0			377761.454183	Y
7	IC 280-534620/12	0.7028	266122.0			378659.647126	Y
8	IC 280-534620/11	1.004	389102.0			387551.792829	Y
9	IC 280-534620/10	2.51	959496.0			382269.322709	Y



Calibration / PETN

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

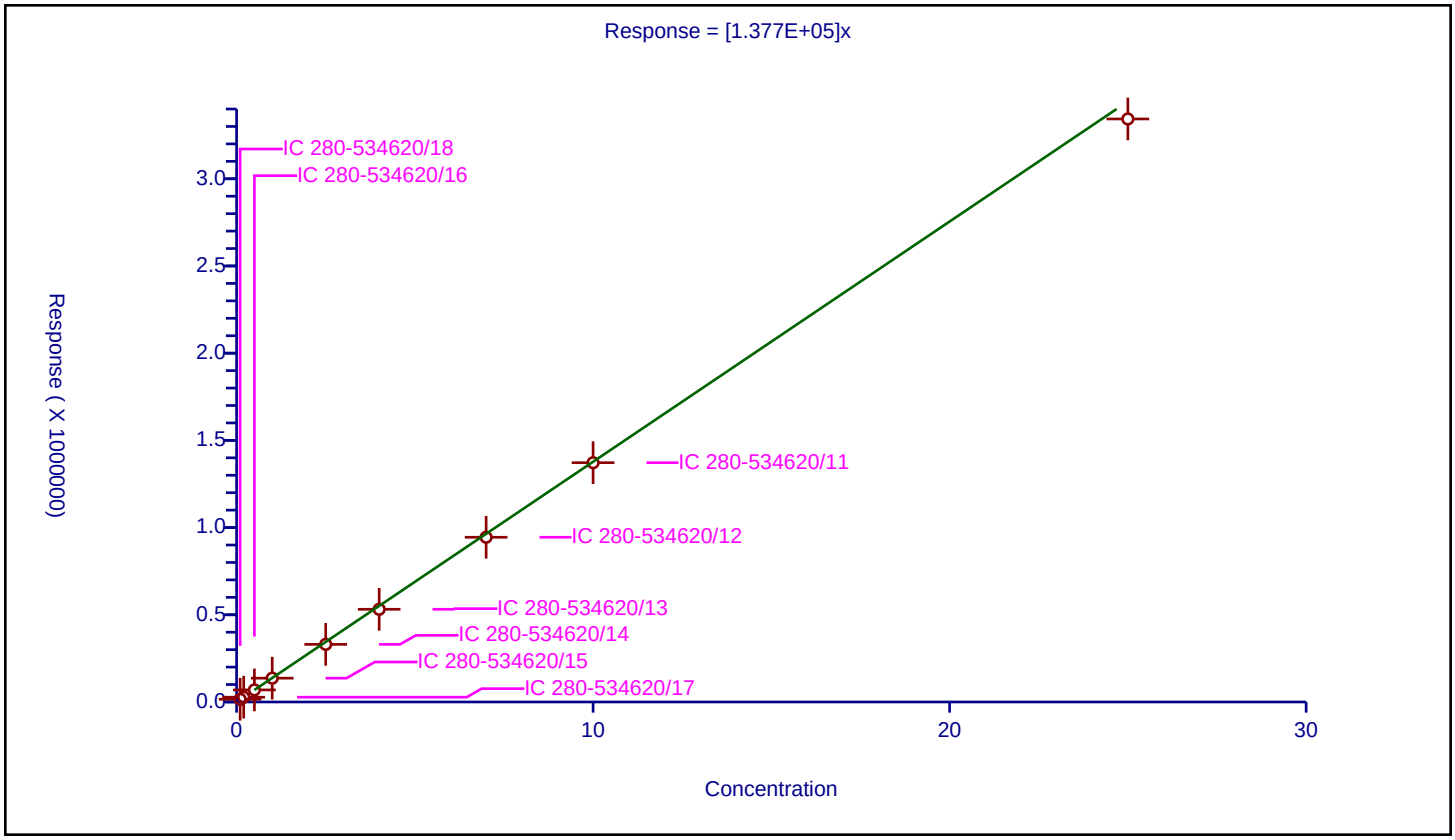
Curve Coefficients

Intercept:	0
Slope:	1.377E+05

Error Coefficients

Standard Error:	37200
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/18	0.1	15659.0			156590.0	Y
2	IC 280-534620/17	0.2	27436.0			137180.0	Y
3	IC 280-534620/16	0.5	69170.0			138340.0	Y
4	IC 280-534620/15	1.0	136676.0			136676.0	Y
5	IC 280-534620/14	2.5	330309.0			132123.6	Y
6	IC 280-534620/13	4.0	531566.0			132891.5	Y
7	IC 280-534620/12	7.0	944599.0			134942.714286	Y
8	IC 280-534620/11	10.0	1371986.0			137198.6	Y
9	IC 280-534620/10	25.0	3343027.0			133721.08	Y



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/02/2021 00:45 Calibration End Date: 05/02/2021 04:51 Calibration ID: 53147

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534620/27	027-2201.D
Level 2	IC 280-534620/26	026-2101.D
Level 3	IC 280-534620/25	025-2001.D
Level 4	IC 280-534620/24	024-1901.D
Level 5	IC 280-534620/23	023-1801.D
Level 6	IC 280-534620/22	022-1701.D
Level 7	IC 280-534620/21	021-1601.D
Level 8	IC 280-534620/20	020-1501.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	5.064	5.071	5.067	5.077	5.075	5.069	5.070	5.050			4.925 - 5.225	5.068
DNX	5.897	5.898	5.894	5.904	5.902	5.896	5.904	5.876			5.752 - 6.052	5.896
MNX	7.444	7.444	7.447	7.451	7.455	7.449	7.450	7.430			7.305 - 7.605	7.446

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/02/2021 00:45 Calibration End Date: 05/02/2021 04:51 Calibration ID: 53147

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534620/27	027-2201.D
Level 2	IC 280-534620/26	026-2101.D
Level 3	IC 280-534620/25	025-2001.D
Level 4	IC 280-534620/24	024-1901.D
Level 5	IC 280-534620/23	023-1801.D
Level 6	IC 280-534620/22	022-1701.D
Level 7	IC 280-534620/21	021-1601.D
Level 8	IC 280-534620/20	020-1501.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
TNX	410889 372502	384156 369461	382597 368210	348975 372358	Ave		376143.531				4.7		20.0			
DNX	297353 284253	292168 282676	288032 280817	268675 284356	Ave		284791.268				3.0		20.0			
MNX	288260 261292	277069 259317	266692 258167	246968 260974	Ave		264842.562				4.8		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1 Analy Batch No.: 534620

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/02/2021 00:45 Calibration End Date: 05/02/2021 04:51 Calibration ID: 53147

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-534620/27	027-2201.D
Level 2	IC 280-534620/26	026-2101.D
Level 3	IC 280-534620/25	025-2001.D
Level 4	IC 280-534620/24	024-1901.D
Level 5	IC 280-534620/23	023-1801.D
Level 6	IC 280-534620/22	022-1701.D
Level 7	IC 280-534620/21	021-1601.D
Level 8	IC 280-534620/20	020-1501.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
TNX	Ave	8226 258881	19227 368578	38298 931826	87331	149150	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	5953 198071	14623 281098	28832 711601	67236	113815	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Ave	6728 211836	16167 301281	31123 761392	72053	121971	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend
Ave = Average

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\020-1501.D				
Lims ID:	IC DMT 8				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	02-May-2021 00:45:25	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 8				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:16	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.050	5.075	-0.025	931826	2.50	2.48	
4 DNX	1	5.876	5.902	-0.026	711601	2.50	2.50	
7 MNX	1	7.430	7.455	-0.025	761392	2.92	2.87	

Reagents:

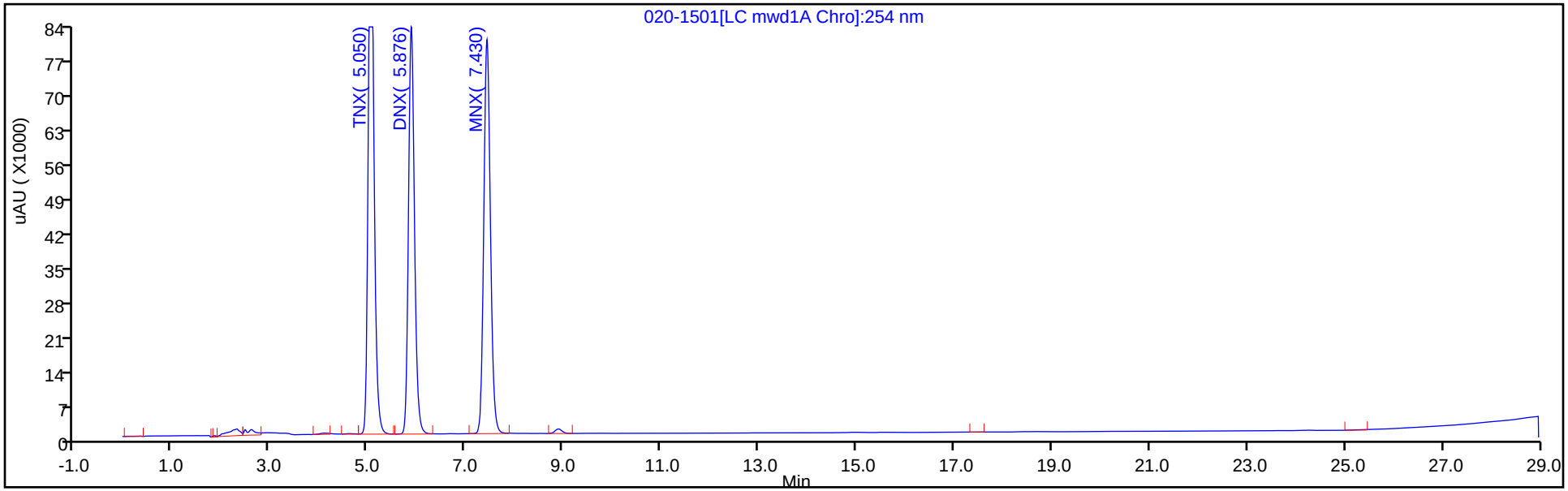
8330 DMT_00008 Amount Added: 125.00 Units: uL

Report Date: 04-May-2021 13:43:16 Chrom Revision: 2.3 08-Apr-2021 17:17:48

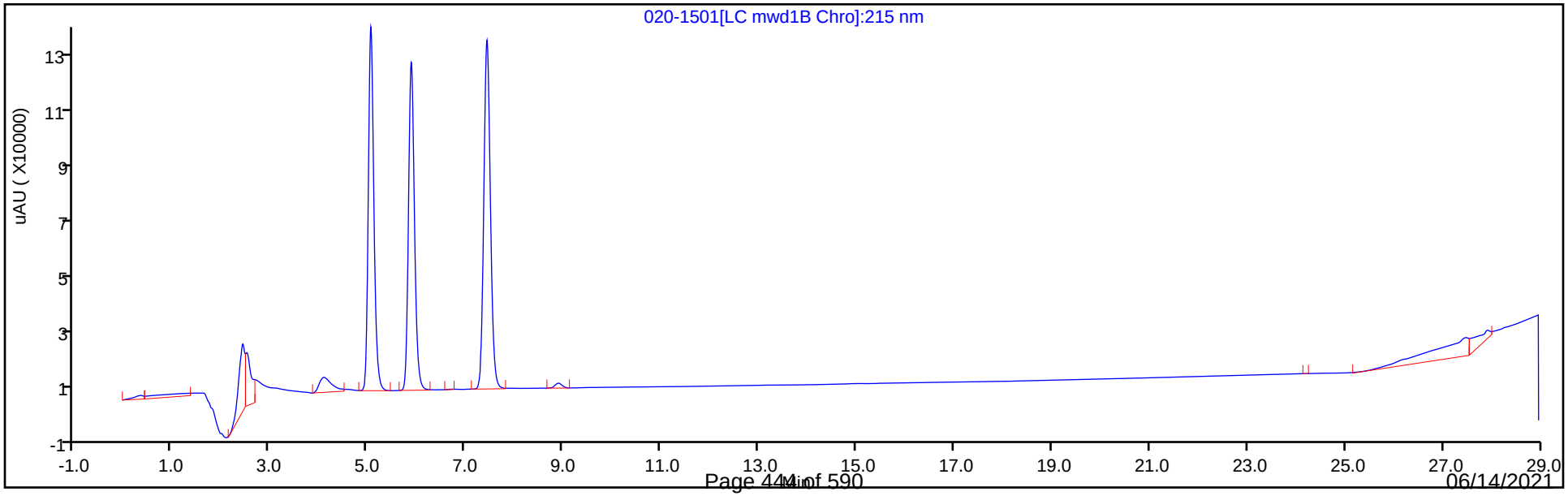
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\020-1501.D				
Injection Date:	02-May-2021 00:45:25	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 8			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\021-1601.D				
Lims ID:	IC DMT 7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	02-May-2021 01:20:33	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 7				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:17	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.070	5.075	-0.005	368578	1.00	0.9799	
4 DNX	1	5.904	5.902	0.002	281098	1.00	0.9870	
7 MNX	1	7.450	7.455	-0.005	301281	1.17	1.14	

Reagents:

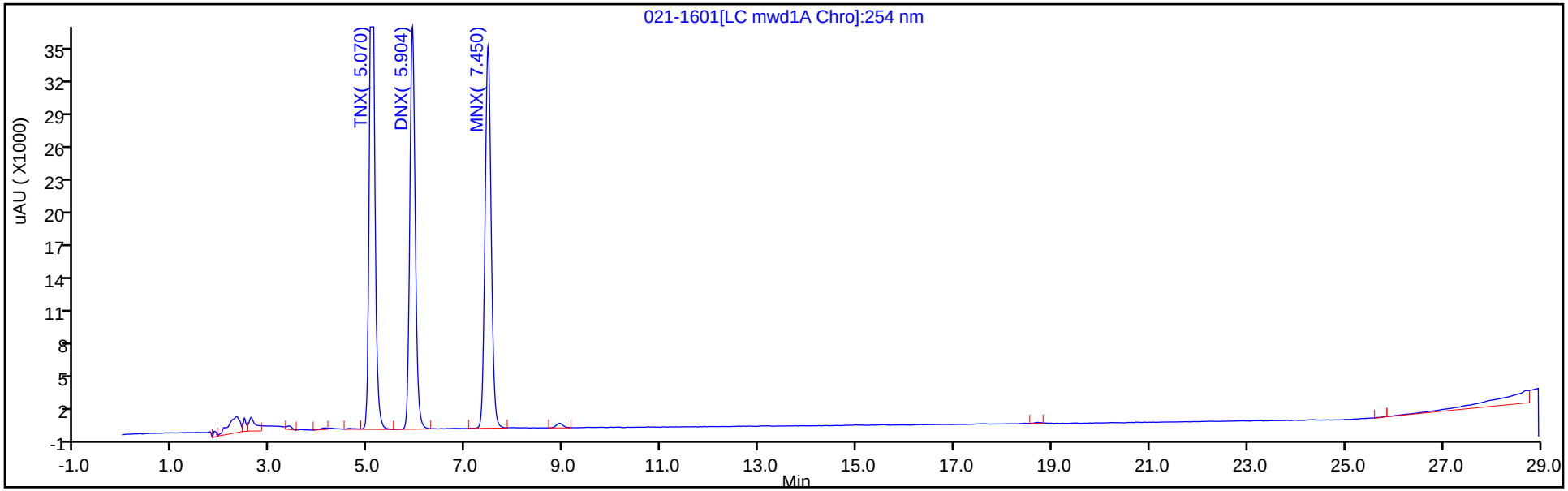
8330 DMT_00008 Amount Added: 50.00 Units: uL

Report Date: 04-May-2021 13:43:17 Chrom Revision: 2.3 08-Apr-2021 17:17:48

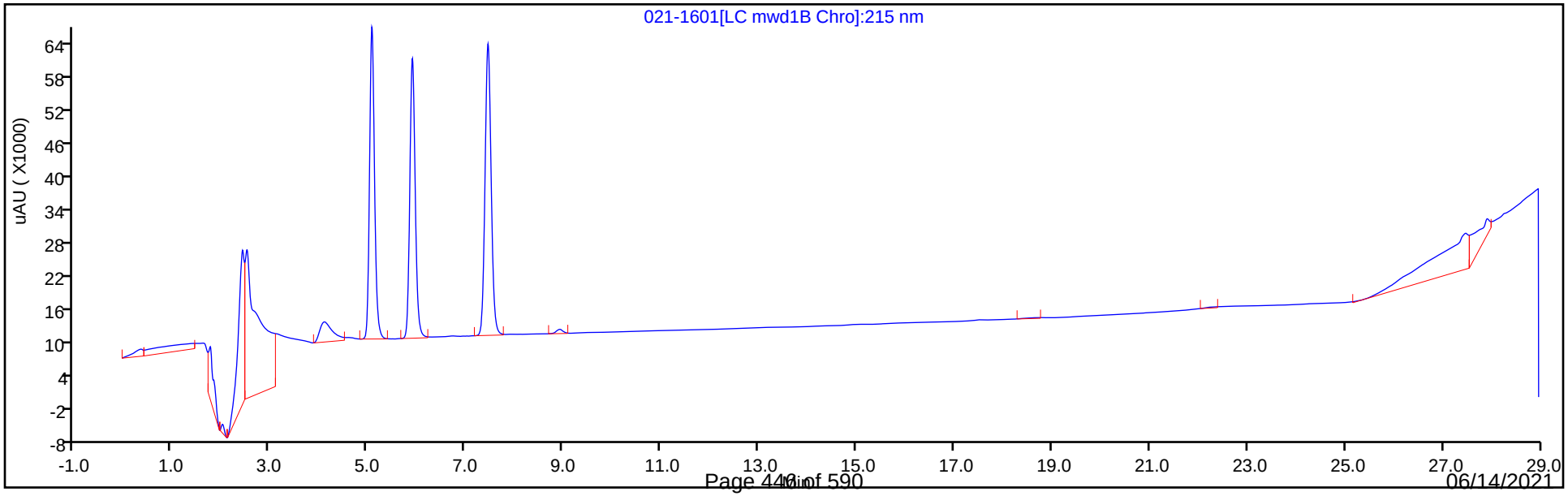
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\021-1601.D				
Injection Date:	02-May-2021 01:20:33	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 7			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\022-1701.D				
Lims ID:	IC DMT 6				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	02-May-2021 01:55:44	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 6				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:17	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.069	5.075	-0.006	258881	0.7007	0.6883	
4 DNX	1	5.896	5.902	-0.006	198071	0.7007	0.6955	
7 MNX	1	7.449	7.455	-0.006	211836	0.8169	0.7999	

Reagents:

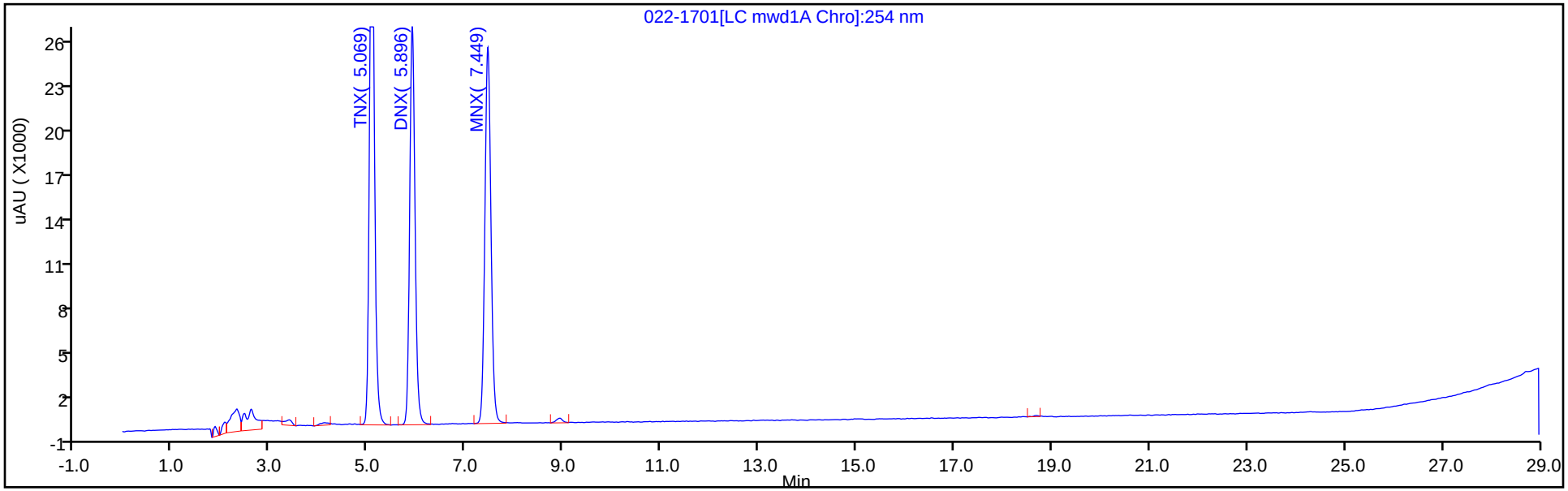
8330 DMT_00008 Amount Added: 35.00 Units: uL

Report Date: 04-May-2021 13:43:17 Chrom Revision: 2.3 08-Apr-2021 17:17:48

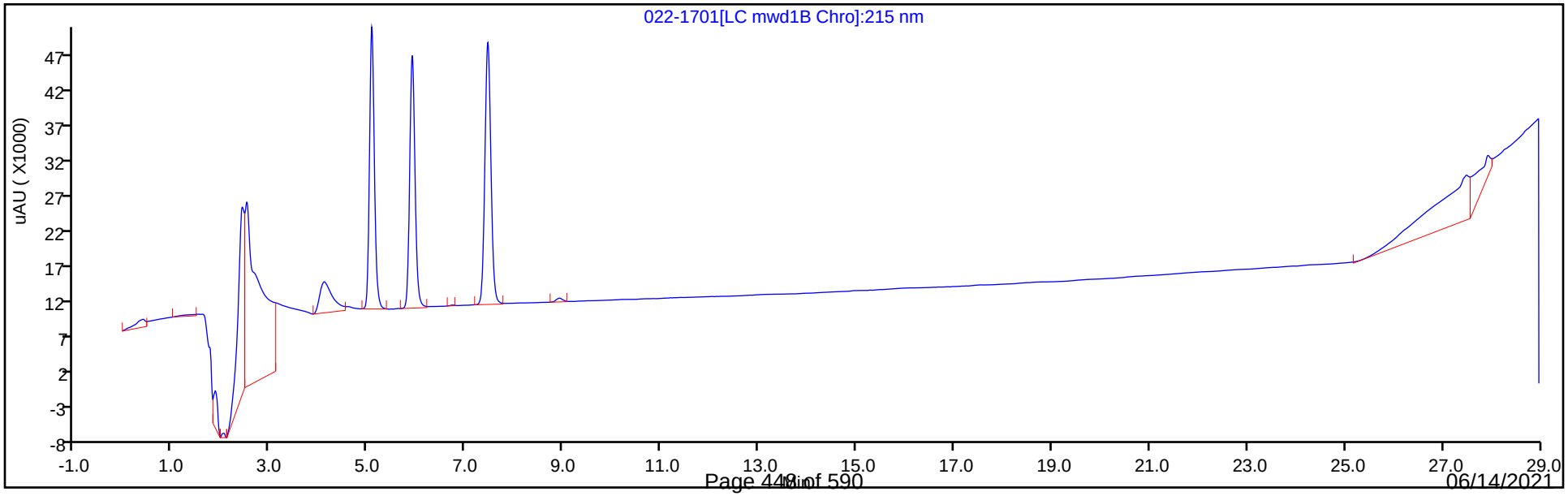
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\022-1701.D				
Injection Date:	02-May-2021 01:55:44	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 6			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\023-1801.D				
Lims ID:	IC DMT 5				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	02-May-2021 02:30:46	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 5				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:18	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.075	5.075	0.000	149150	0.4004	0.3965	
4 DNX	1	5.902	5.902	0.000	113815	0.4004	0.3996	
7 MNX	1	7.455	7.455	0.000	121971	0.4668	0.4605	

Reagents:

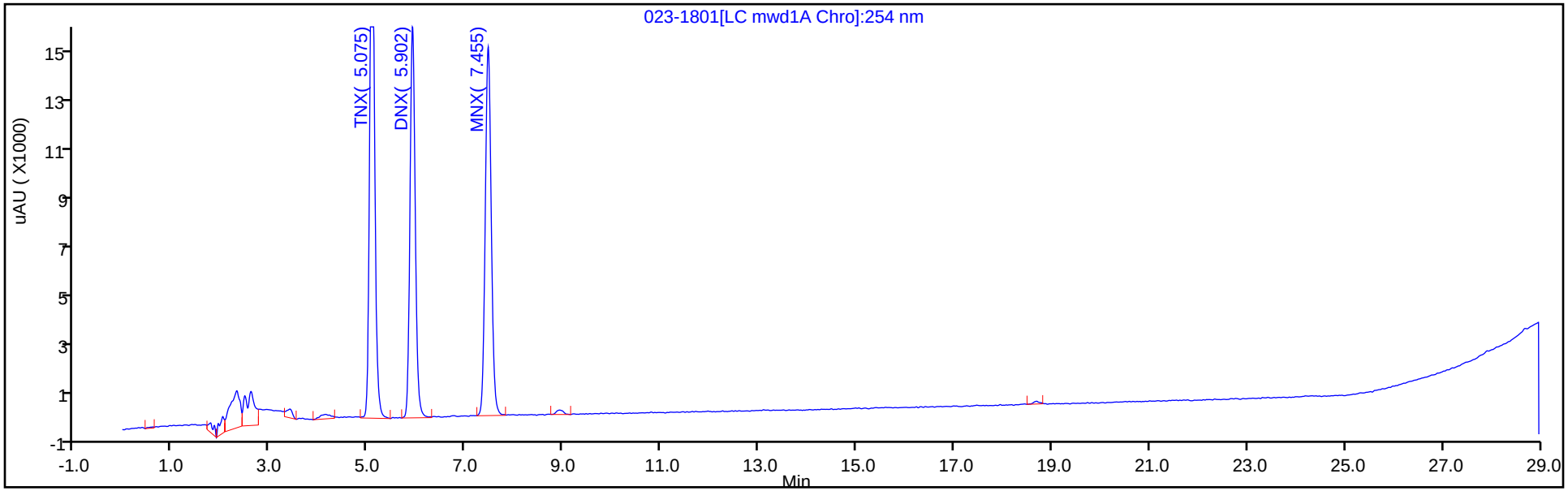
8330 DMT_00008 Amount Added: 20.00 Units: uL

Report Date: 04-May-2021 13:43:18 Chrom Revision: 2.3 08-Apr-2021 17:17:48

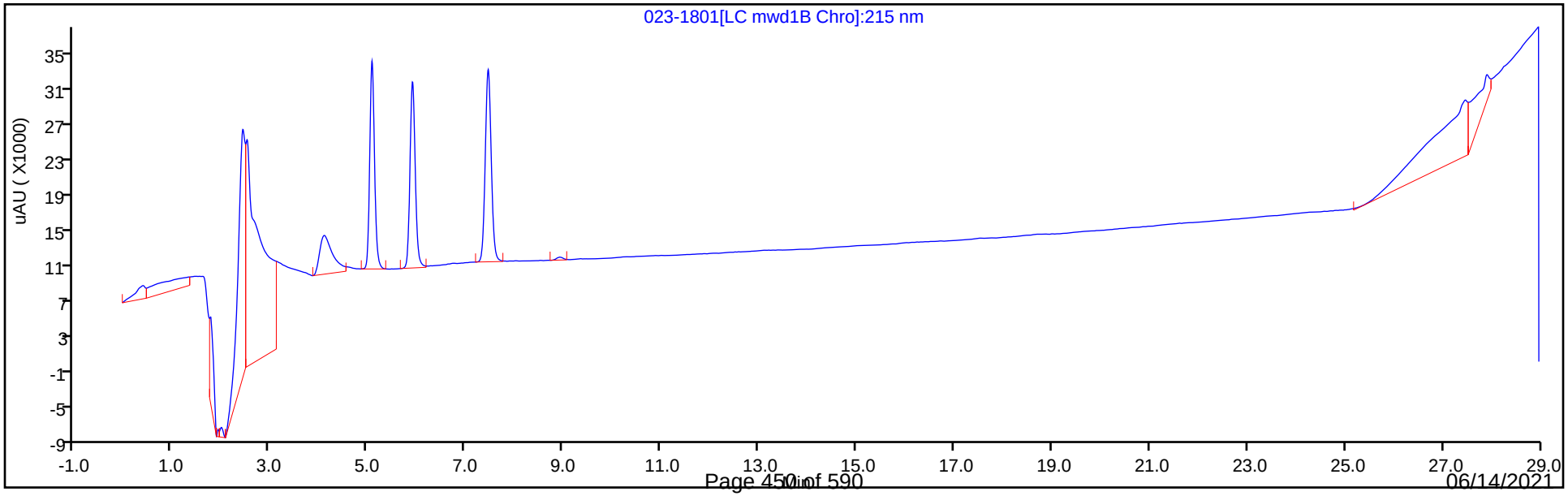
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\023-1801.D				
Injection Date:	02-May-2021 02:30:46	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 5			Worklist Smp#:	23
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\024-1901.D				
Lims ID:	IC DMT 4				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	02-May-2021 03:05:50	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 4				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:18	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.077	5.075	0.002	87331	0.2503	0.2322	
4 DNX	1	5.904	5.902	0.002	67236	0.2503	0.2361	
7 MNX	1	7.451	7.455	-0.004	72053	0.2918	0.2721	

Reagents:

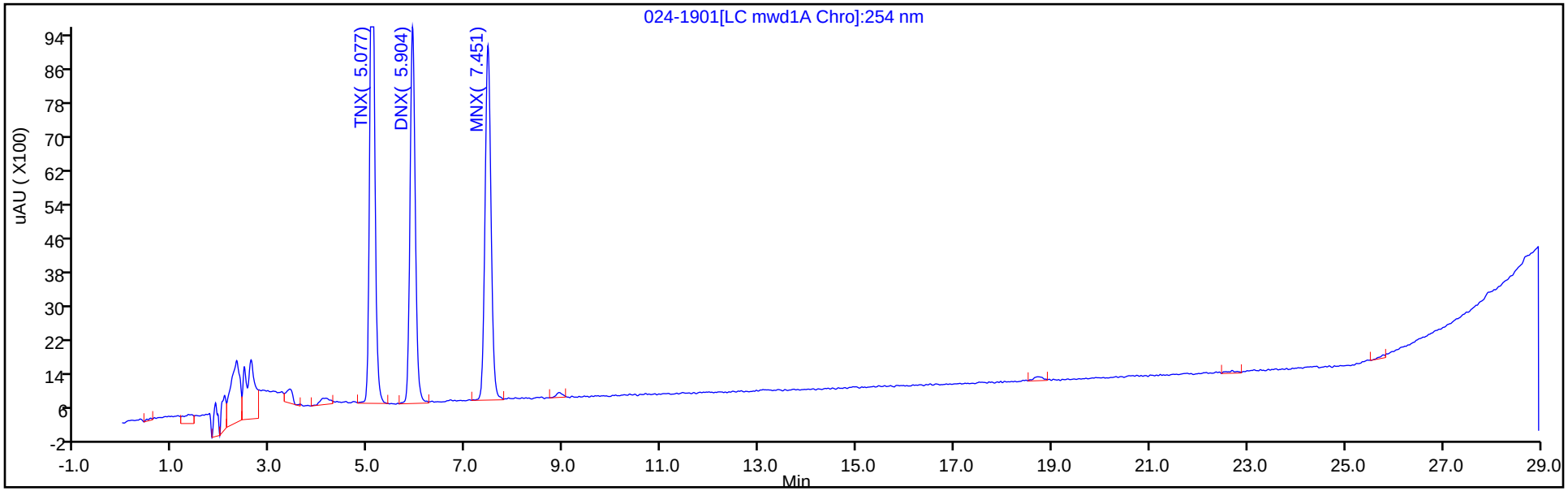
8330 DMT_00008 Amount Added: 12.50 Units: uL

Report Date: 04-May-2021 13:43:18 Chrom Revision: 2.3 08-Apr-2021 17:17:48

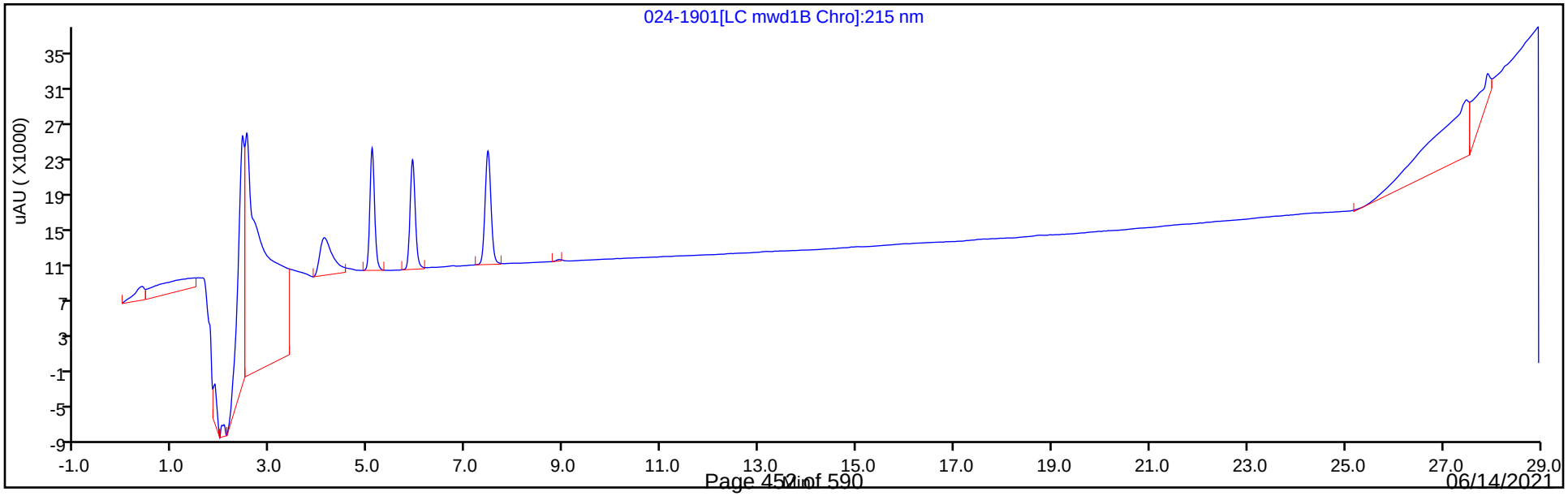
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\024-1901.D				
Injection Date:	02-May-2021 03:05:50	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 4			Worklist Smp#:	24
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\025-2001.D				
Lims ID:	IC DMT 3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	02-May-2021 03:41:00	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 3				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:19	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.067	5.075	-0.008	38298	0.1001	0.1018	
4 DNX	1	5.894	5.902	-0.008	28832	0.1001	0.1012	
7 MNX	1	7.447	7.455	-0.008	31123	0.1167	0.1175	

Reagents:

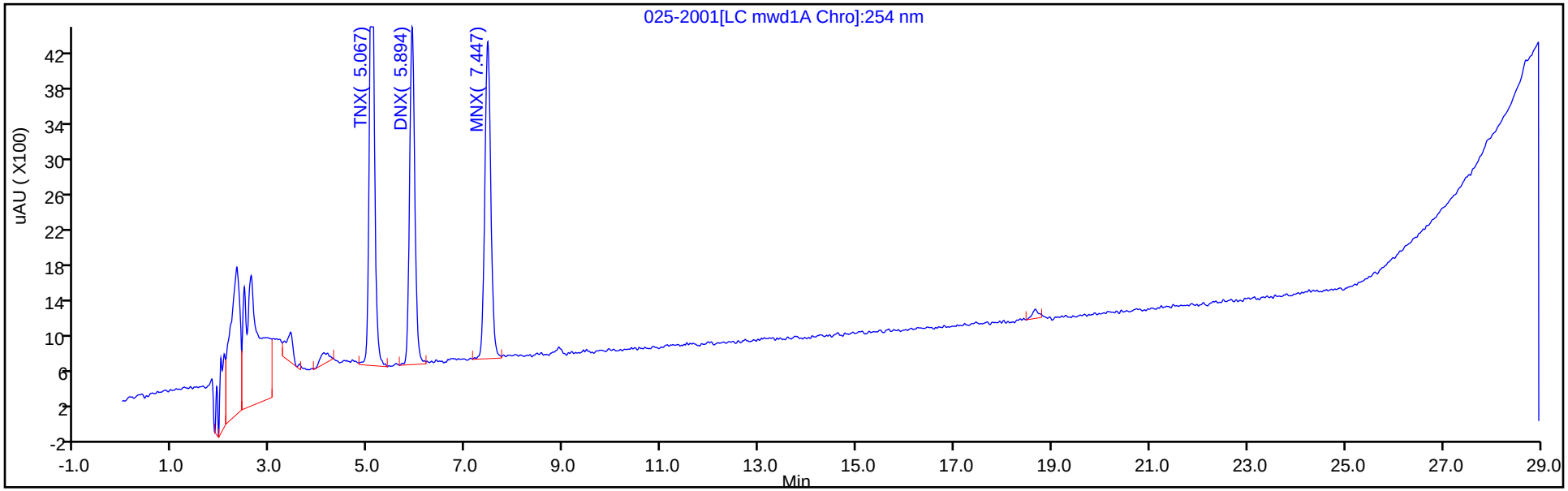
8330 DMT_00008 Amount Added: 5.00 Units: uL

Report Date: 04-May-2021 13:43:19 Chrom Revision: 2.3 08-Apr-2021 17:17:48

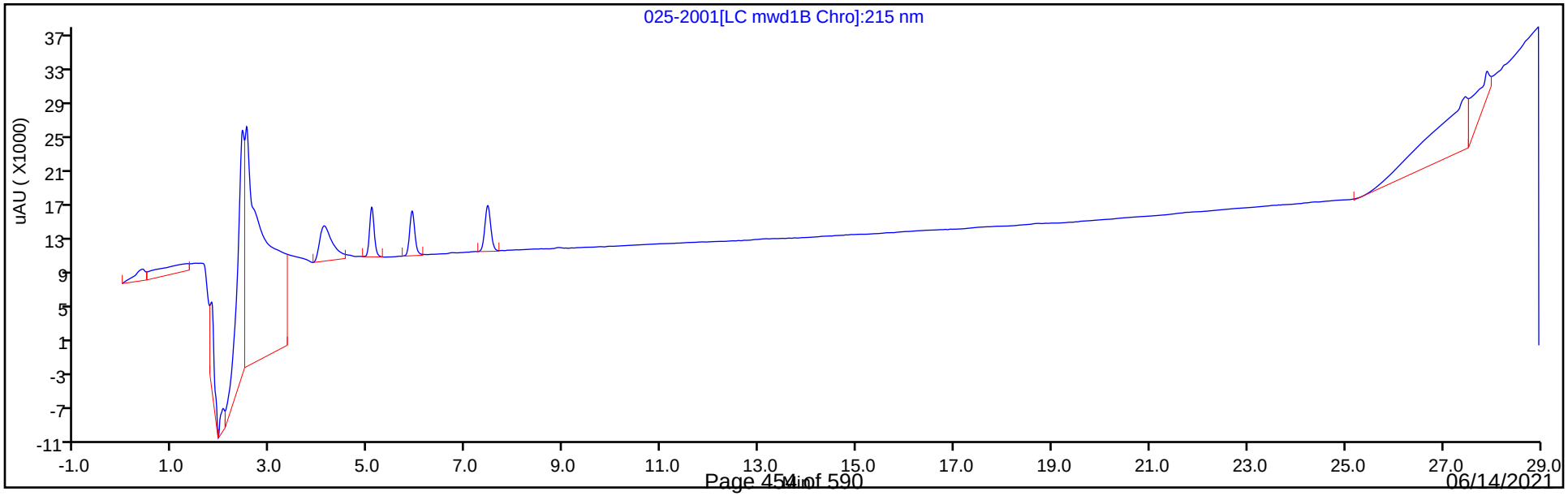
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\025-2001.D				
Injection Date:	02-May-2021 03:41:00	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 3			Worklist Smp#:	25
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\026-2101.D				
Lims ID:	IC DMT 2				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	02-May-2021 04:16:02	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 2				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:19	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.071	5.075	-0.004	19227	0.0501	0.0511	
4 DNX	1	5.898	5.902	-0.004	14623	0.0501	0.0513	
7 MNX	1	7.444	7.455	-0.011	16167	0.0584	0.0610	

Reagents:

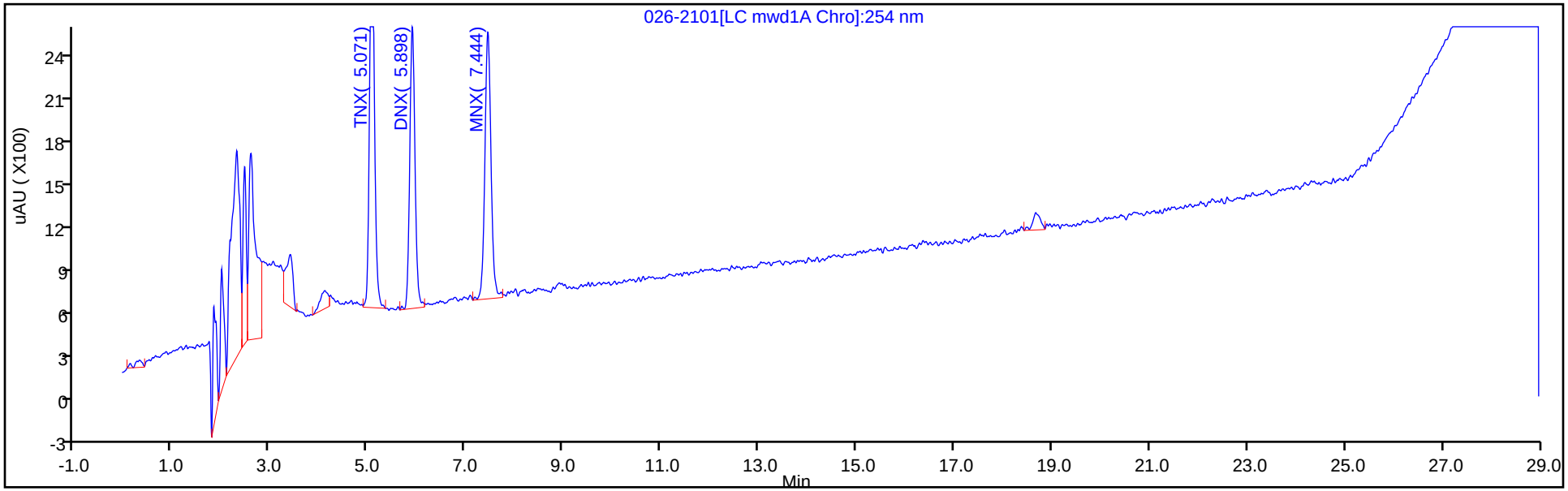
8330 DMT_00008 Amount Added: 2.50 Units: uL

Report Date: 04-May-2021 13:43:19 Chrom Revision: 2.3 08-Apr-2021 17:17:48

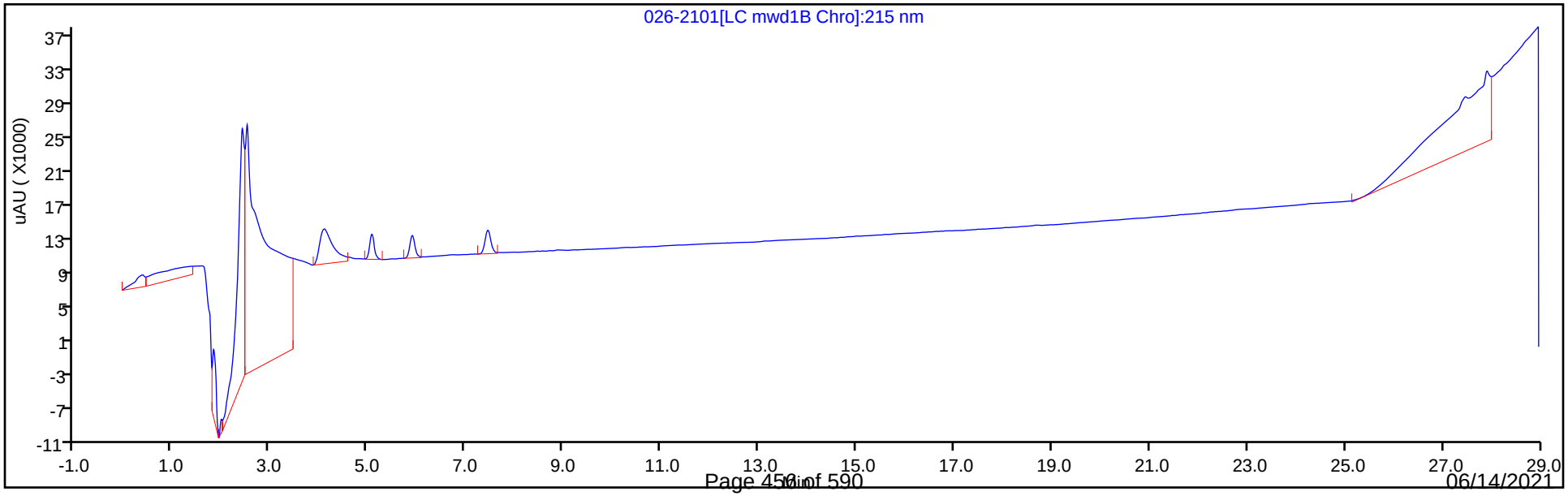
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\026-2101.D				
Injection Date:	02-May-2021 04:16:02	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 2			Worklist Smp#:	26
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Lims ID:	IC DMT 1				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	02-May-2021 04:51:05	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 1				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub2				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	04-May-2021 13:43:20	Calib Date:	02-May-2021 04:51:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1618				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.064	5.075	-0.011	8226	0.0200	0.0219	
4 DNX	1	5.897	5.902	-0.005	5953	0.0200	0.0209	
7 MNX	1	7.444	7.455	-0.011	6728	0.0233	0.0254	

Reagents:

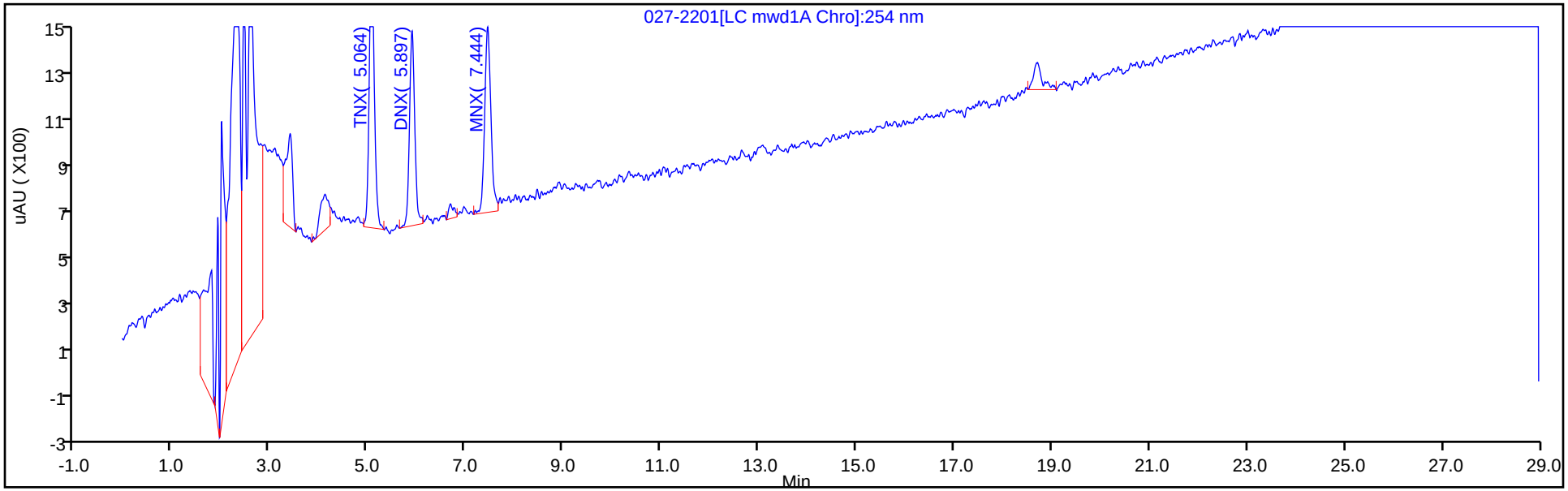
8330 DMT_00008 Amount Added: 1.00 Units: uL

Report Date: 04-May-2021 13:43:20 Chrom Revision: 2.3 08-Apr-2021 17:17:48

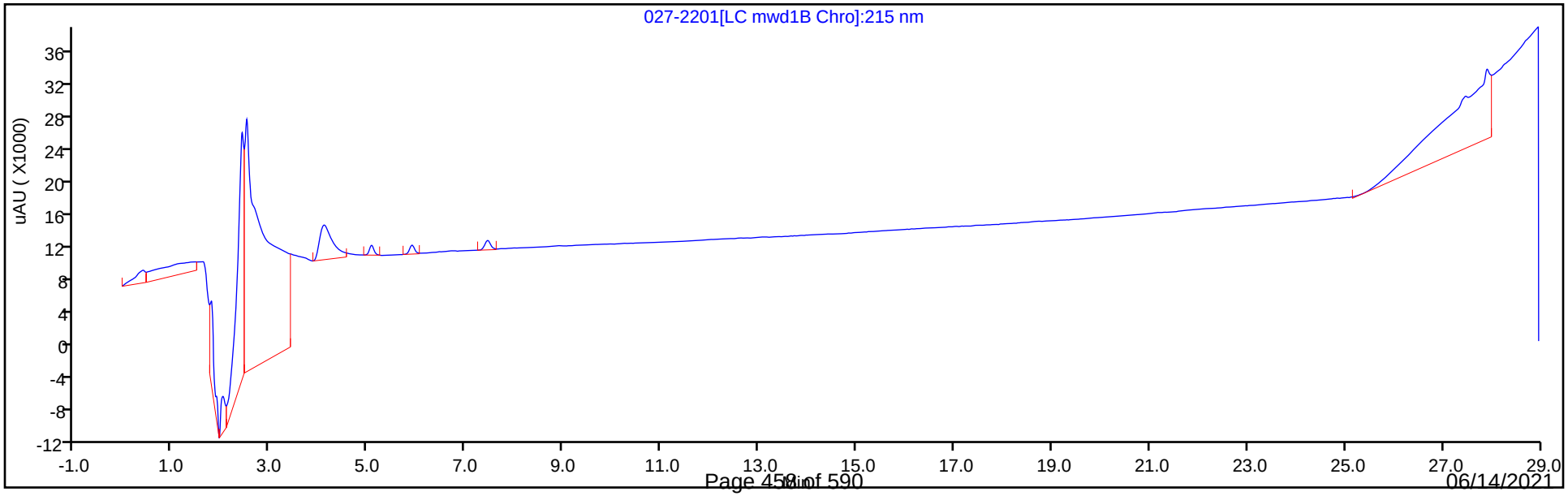
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D				
Injection Date:	02-May-2021 04:51:05	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	IC DMT 1			Worklist Smp#:	27
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / TNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

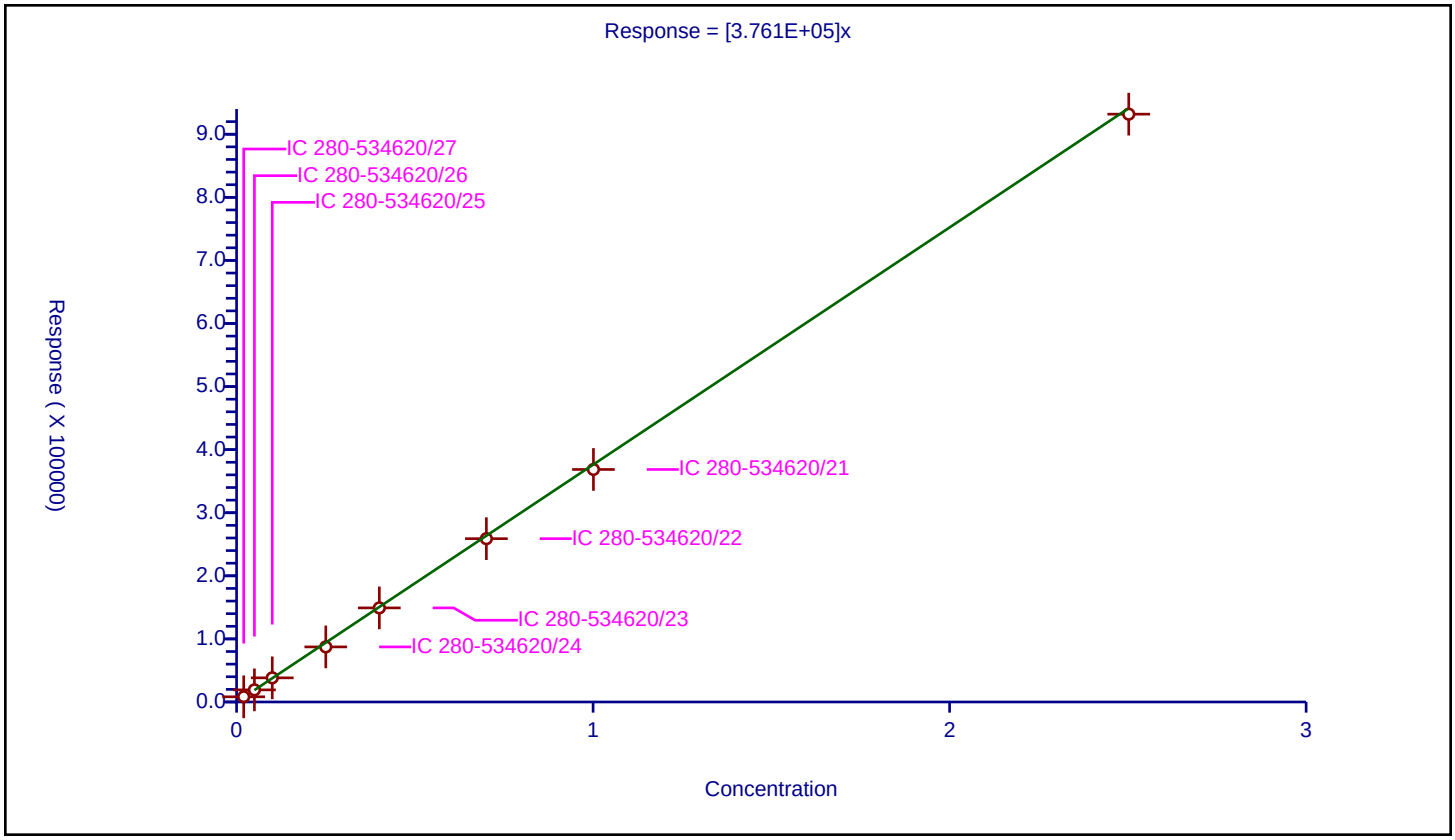
Curve Coefficients

Intercept:	0
Slope:	3.761E+05

Error Coefficients

Standard Error:	5660
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/27	0.02002	8226.0			410889.110889	Y
2	IC 280-534620/26	0.05005	19227.0			384155.844156	Y
3	IC 280-534620/25	0.1001	38298.0			382597.402597	Y
4	IC 280-534620/24	0.25025	87331.0			348975.024975	Y
5	IC 280-534620/23	0.4004	149150.0			372502.497502	Y
6	IC 280-534620/22	0.7007	258881.0			369460.539461	Y
7	IC 280-534620/21	1.001	368578.0			368209.79021	Y
8	IC 280-534620/20	2.5025	931826.0			372358.041958	Y



Calibration / DNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

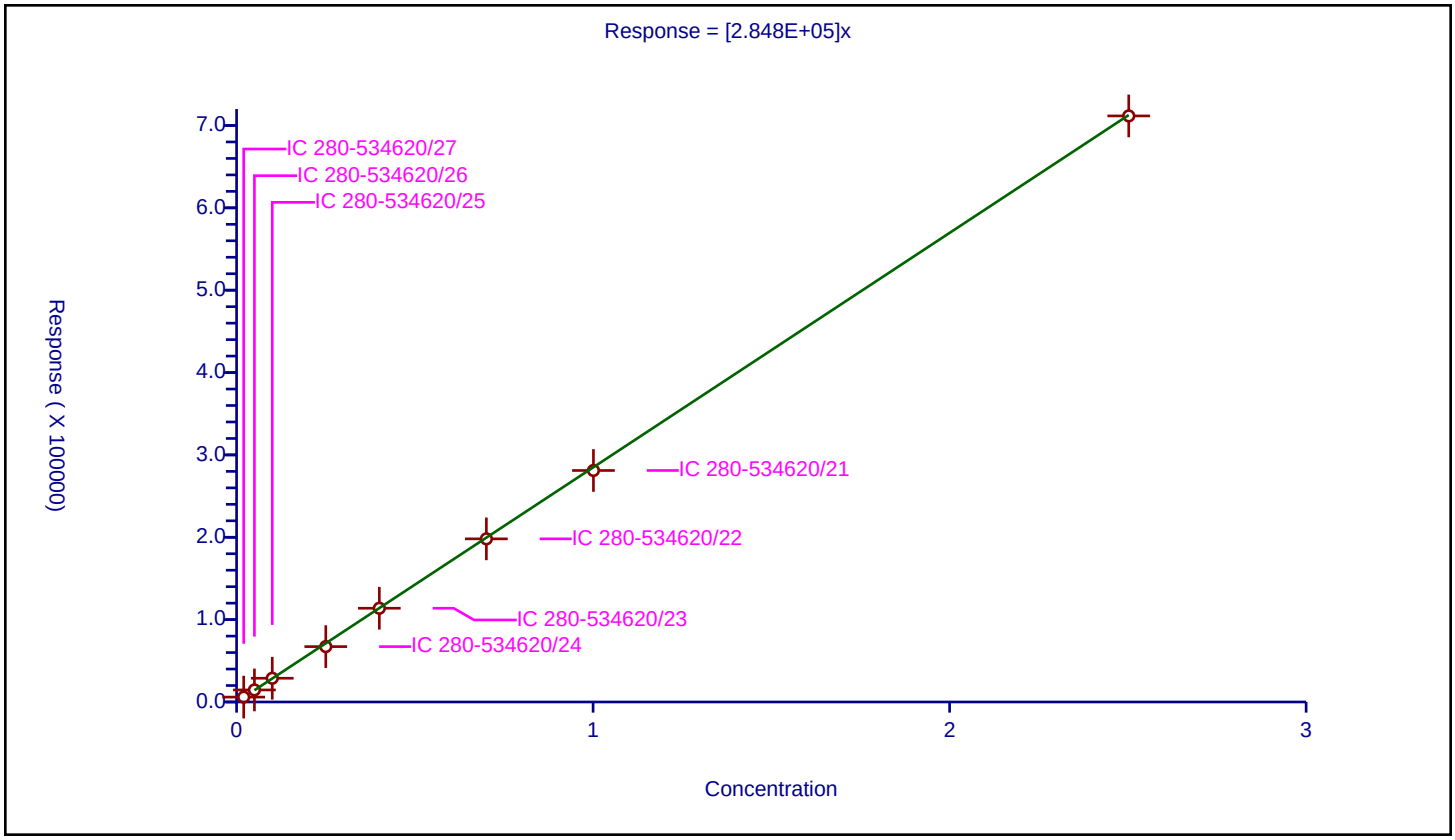
Curve Coefficients

Intercept:	0
Slope:	2.848E+05

Error Coefficients

Standard Error:	2260
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/27	0.02002	5953.0			297352.647353	Y
2	IC 280-534620/26	0.05005	14623.0			292167.832168	Y
3	IC 280-534620/25	0.1001	28832.0			288031.968032	Y
4	IC 280-534620/24	0.25025	67236.0			268675.324675	Y
5	IC 280-534620/23	0.4004	113815.0			284253.246753	Y
6	IC 280-534620/22	0.7007	198071.0			282675.895533	Y
7	IC 280-534620/21	1.001	281098.0			280817.182817	Y
8	IC 280-534620/20	2.5025	711601.0			284356.043956	Y



Calibration / MNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

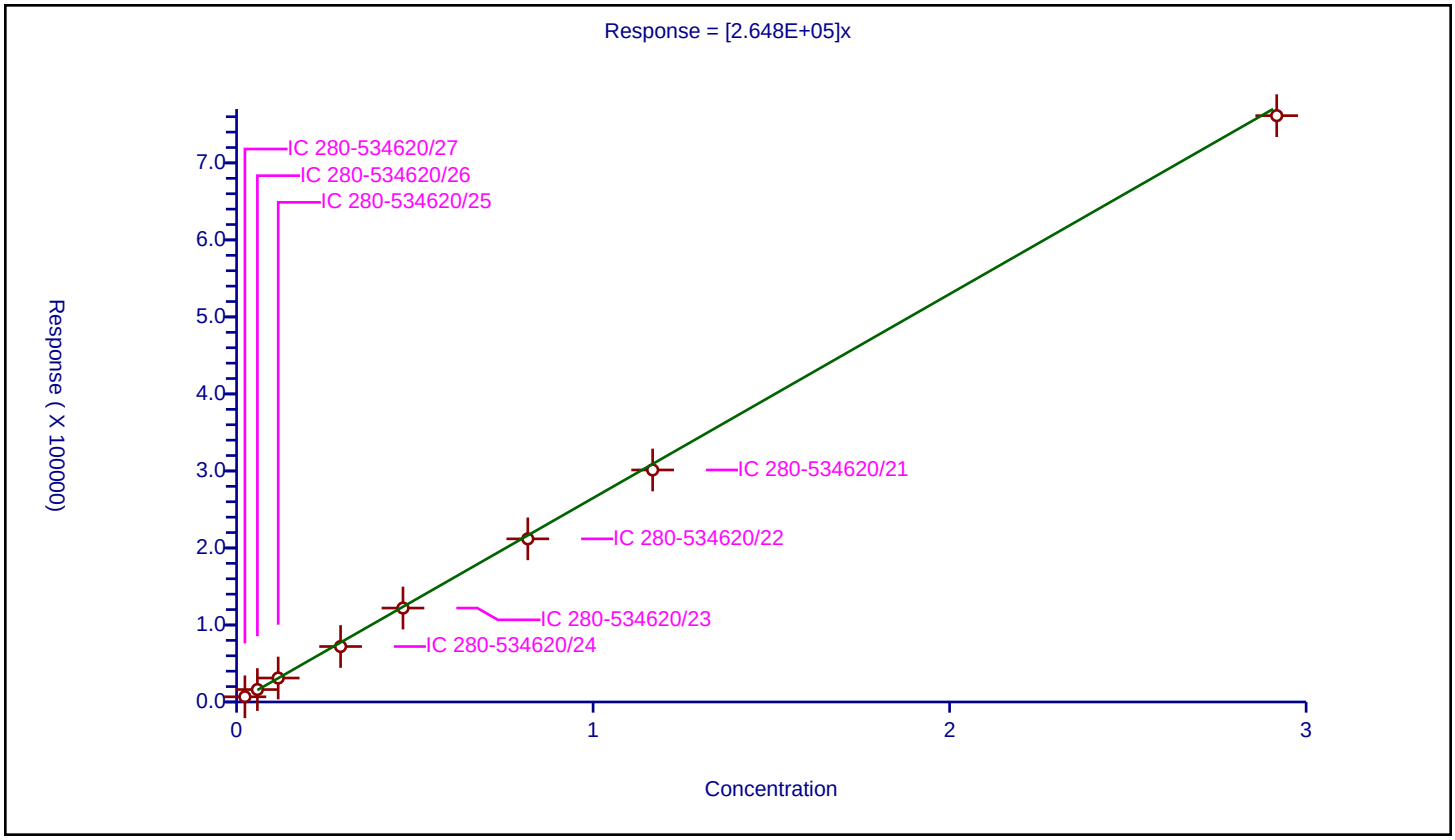
Curve Coefficients

Intercept:	0
Slope:	2.648E+05

Error Coefficients

Standard Error:	5850
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-534620/27	0.02334	6728.0			288260.497001	Y
2	IC 280-534620/26	0.05835	16167.0			277069.40874	Y
3	IC 280-534620/25	0.1167	31123.0			266692.373608	Y
4	IC 280-534620/24	0.29175	72053.0			246968.294773	Y
5	IC 280-534620/23	0.4668	121971.0			261291.773779	Y
6	IC 280-534620/22	0.8169	211836.0			259316.929857	Y
7	IC 280-534620/21	1.167	301281.0			258167.095116	Y
8	IC 280-534620/20	2.9175	761392.0			260974.12168	Y



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: ICV 280-527768/37 Calibration Date: 03/03/2021 02:53

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 03020037.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	185806	197668		532	501	6.4	15.0
DNX	Ave	142119	151812		535	501	6.8	15.0
MNX	Ave	130340	138202		619	584	6.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: ICV 280-527768/37 Calibration Date: 03/03/2021 02:53

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 03020037.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.52	6.42	6.62
DNX	6.83	6.73	6.93
MNX	7.24	7.08	7.38

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020037.D				
Lims ID:	ICV DMT				
Client ID:					
Sample Type:	ICV				
Inject. Date:	03-Mar-2021 02:53:28	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	ICV DMT				
Misc. Info.:	280-0099486-037				
Operator ID:		Instrument ID:	CHHPLC_X3		
Sublist:					
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	03-Mar-2021 13:36:22	Calib Date:	03-Mar-2021 02:30:22		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210302-99486.b\03020036.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1629				

First Level Reviewer: zhangji Date: 03-Mar-2021 13:21:26

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.523	6.518	0.005	98933	0.5005	0.5325	M
5 DNX	1	6.830	6.832	-0.002	75982	0.5005	0.5346	M
6 MNX	1	7.237	7.232	0.005	80641	0.5835	0.6187	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

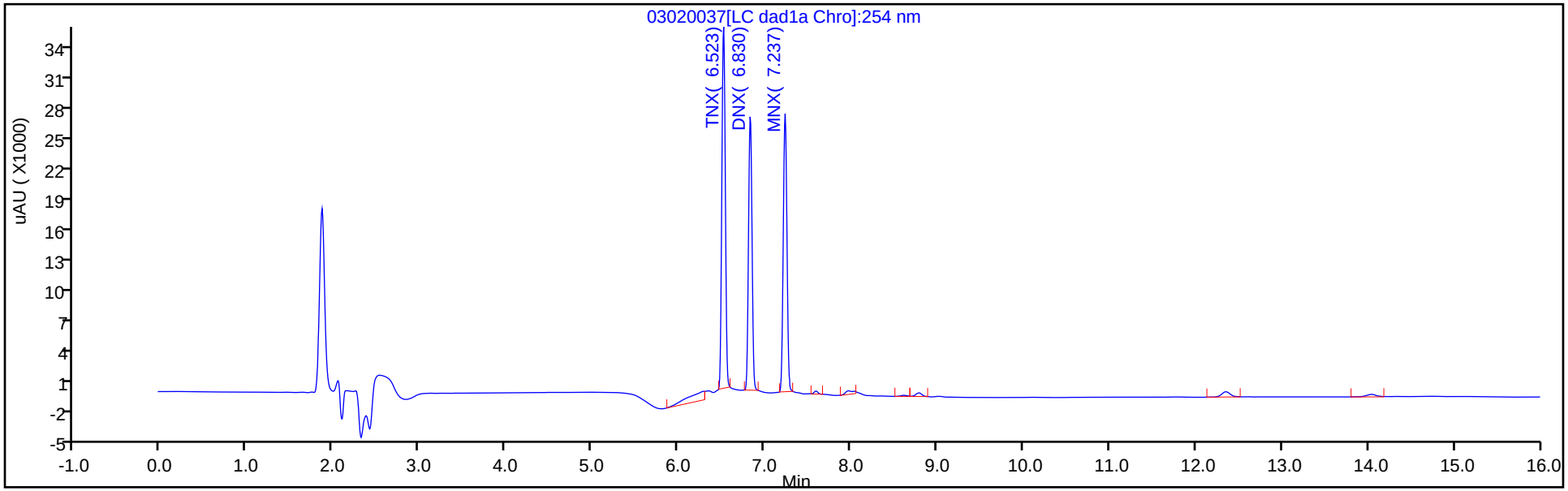
8330_OP_DMT_00009 Amount Added: 50.00 Units: uL

Report Date: 03-Mar-2021 13:36:35 Chrom Revision: 2.3 05-Feb-2021 00:13:28

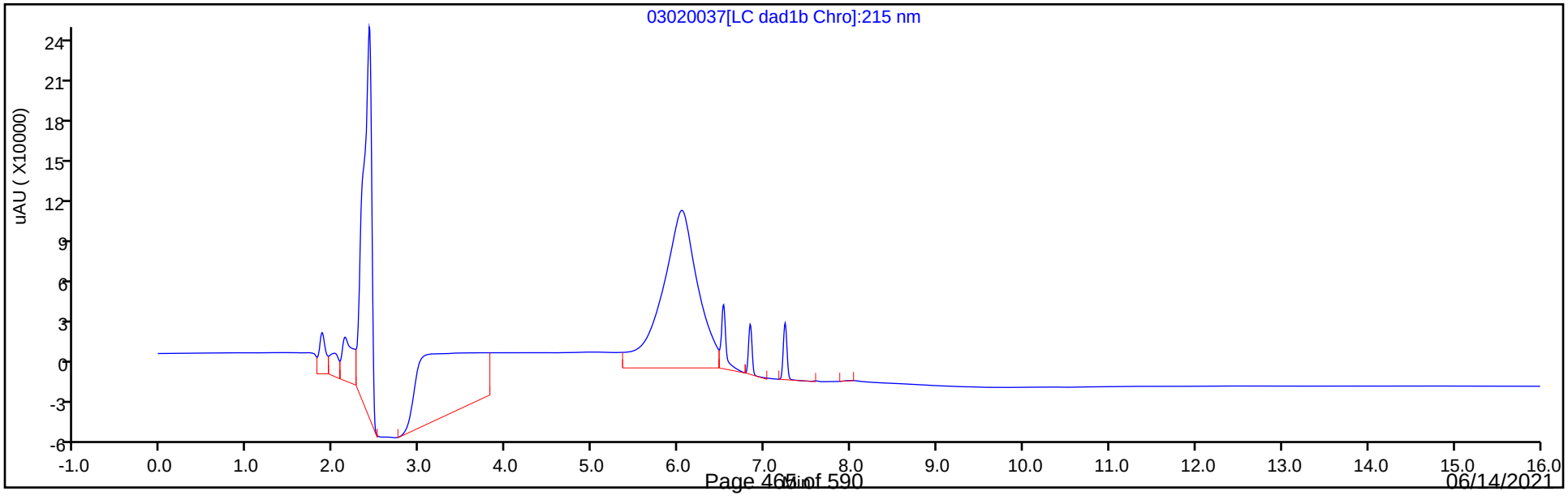
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020037.d				
Injection Date:	03-Mar-2021 02:53:28	Instrument ID:	CHHPLC_X3	Operator ID:	
Lims ID:	ICV DMT			Worklist Smp#:	37
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

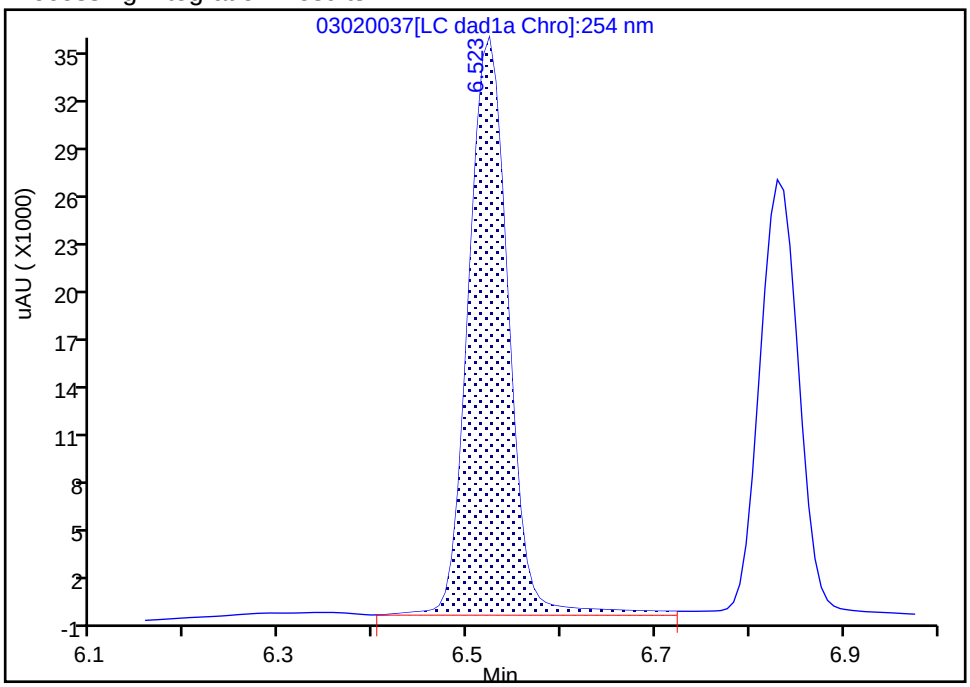
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020037.d				
Injection Date:	03-Mar-2021 02:53:28	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:		ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

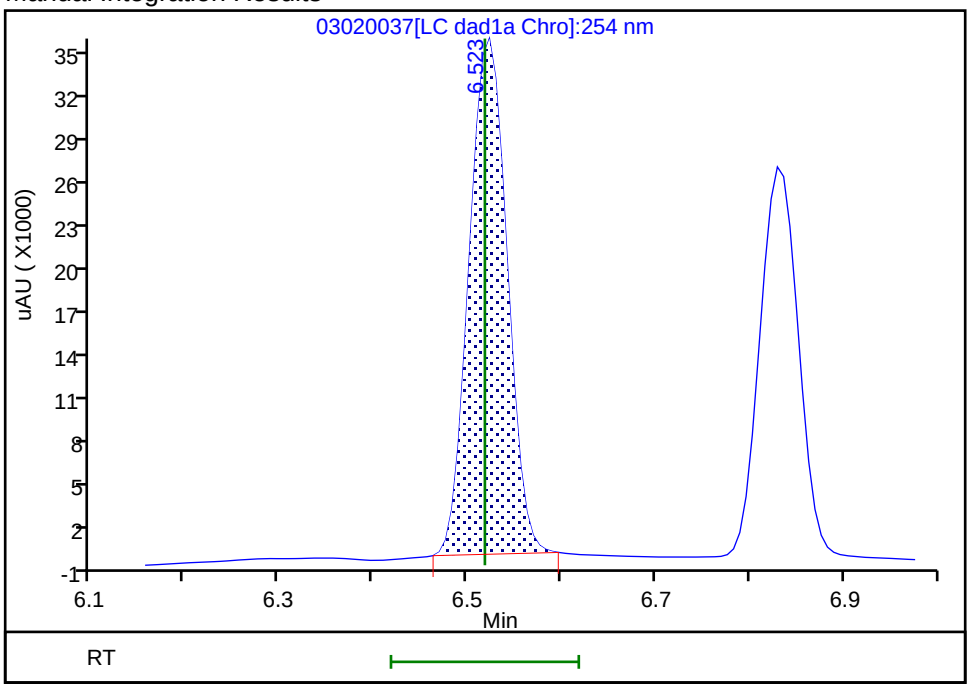
Processing Integration Results

RT: 6.52
Area: 105520
Amount: 0.567904
Amount Units: ug/mL



Manual Integration Results

RT: 6.52
Area: 98933
Amount: 0.532453
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:21:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

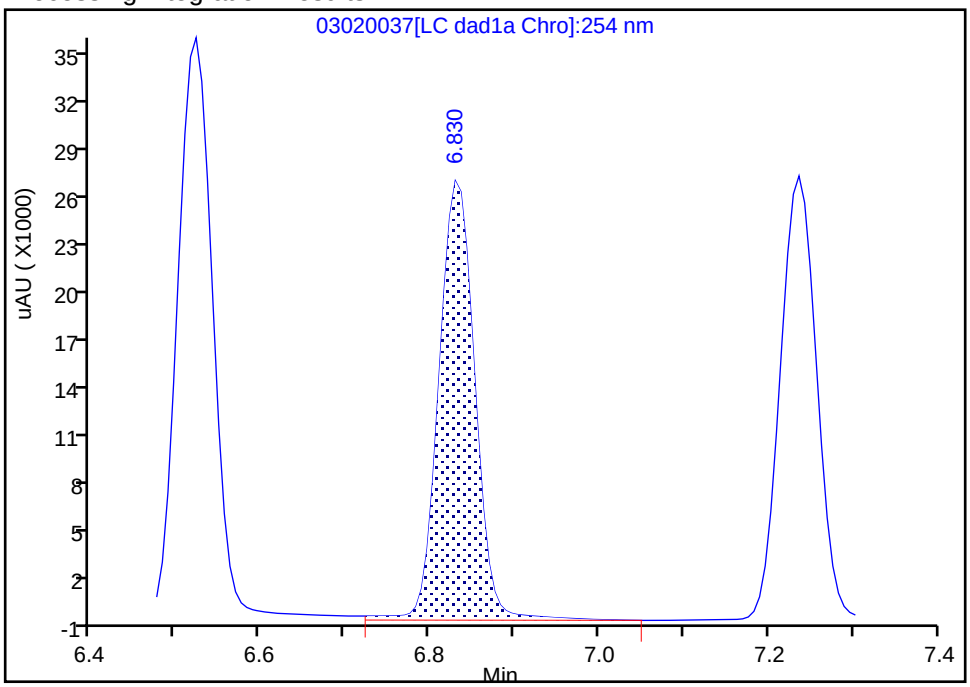
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020037.d				
Injection Date:	03-Mar-2021 02:53:28	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:		ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

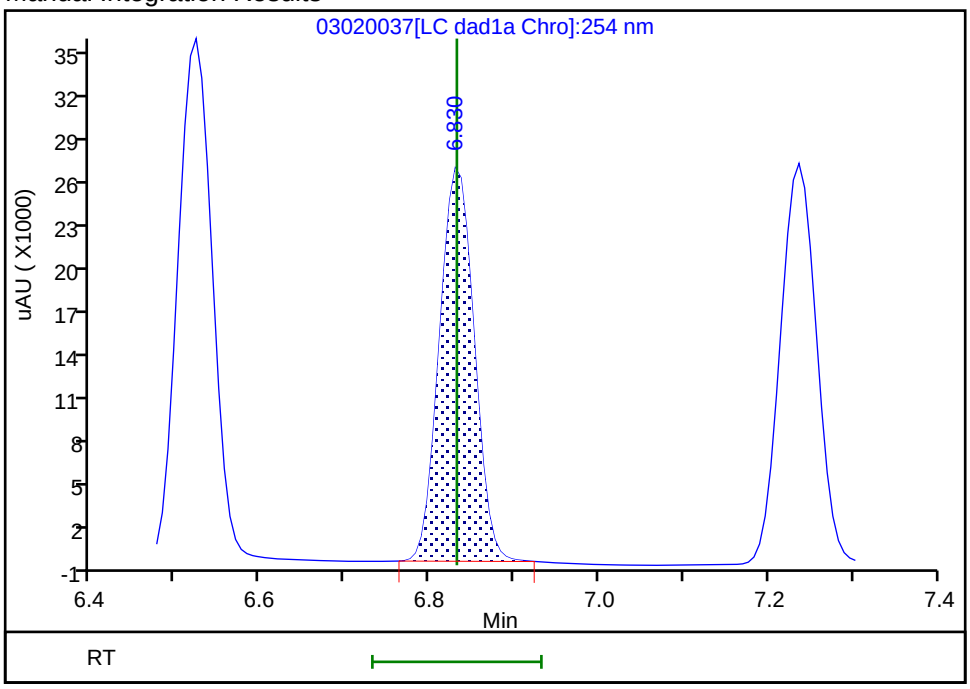
Processing Integration Results

RT: 6.83
Area: 79674
Amount: 0.560613
Amount Units: ug/mL



Manual Integration Results

RT: 6.83
Area: 75982
Amount: 0.534635
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:21:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

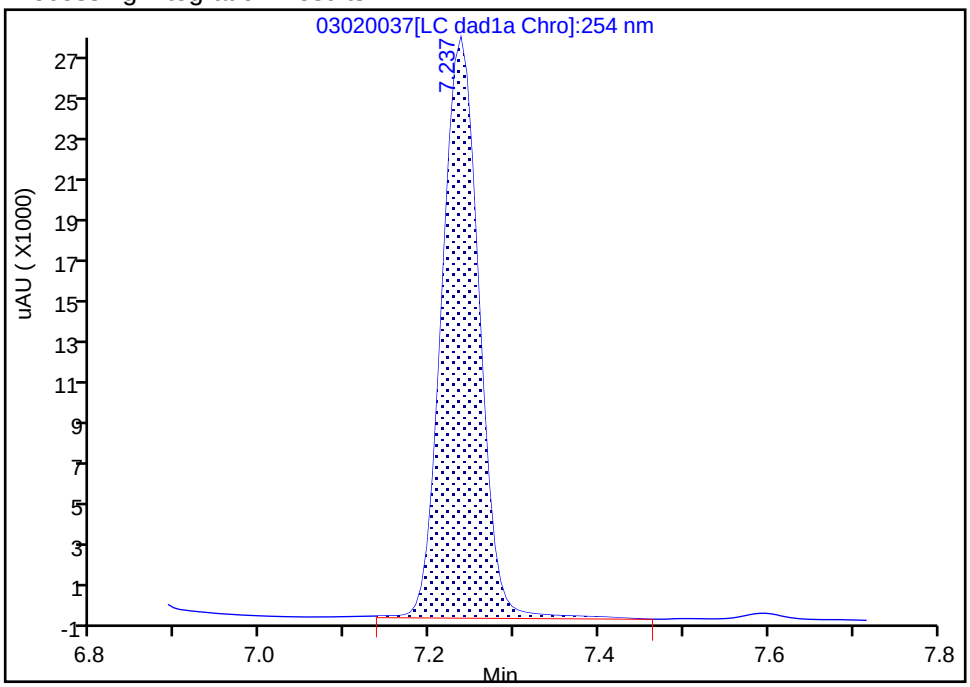
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210302-99486.b\03020037.d				
Injection Date:	03-Mar-2021 02:53:28	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:		ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

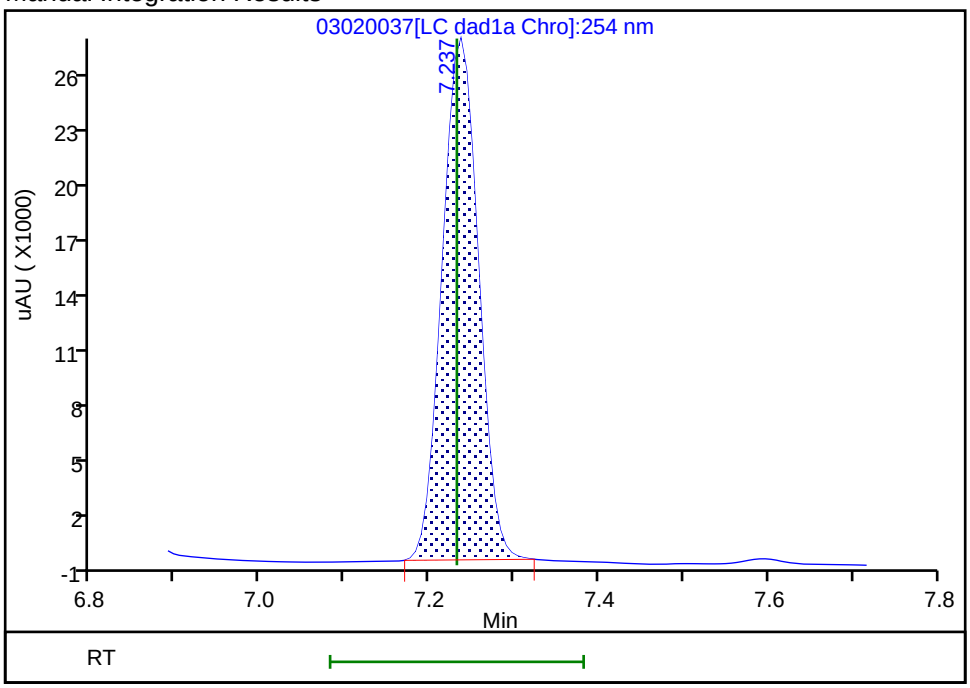
Processing Integration Results

RT: 7.24
Area: 83346
Amount: 0.639449
Amount Units: ug/mL



Manual Integration Results

RT: 7.24
Area: 80641
Amount: 0.618696
Amount Units: ug/mL



Reviewer: zhangji, 03-Mar-2021 13:21:25
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: ICV 280-534622/20 Calibration Date: 05/01/2021 21:27

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 020-1401.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	84421	82460		488	500	-2.3	15.0
RDX	Ave	106261	102780		484	500	-3.3	15.0
Picric acid	Ave	82721	86056		520	500	4.0	15.0
1,3,5-Trinitrobenzene	Ave	220317	224390		509	500	1.8	15.0
1,3-Dinitrobenzene	Ave	296329	300634		507	500	1.5	15.0
Nitrobenzene	Ave	195286	196150		502	500	0.4	15.0
Tetryl	Ave	172420	171402		497	500	-0.6	15.0
Nitroglycerin	Lin2		67022		5160	5000	3.2	15.0
2,4,6-Trinitrotoluene	Ave	206038	210436		511	500	2.1	15.0
4-Amino-2,6-dinitrotoluene	Ave	152768	147828		484	500	-3.2	15.0
2-Amino-4,6-dinitrotoluene	Ave	206926	203056		491	500	-1.9	15.0
2,6-Dinitrotoluene	Ave	143079	144928		506	500	1.3	15.0
2,4-Dinitrotoluene	Ave	287012	279908		488	500	-2.5	15.0
2-Nitrotoluene	Ave	128392	125290		488	500	-2.4	15.0
4-Nitrotoluene	Ave	111913	108216		483	500	-3.3	15.0
3-Nitrotoluene	Ave	142246	137810		484	500	-3.1	15.0
PETN	Ave	74779	76182		5090	5000	1.9	15.0
1,2-Dinitrobenzene	Ave	128217	134842		526	500	5.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: ICV 280-534622/20 Calibration Date: 05/01/2021 21:27

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 020-1401.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.63	6.48	6.78
RDX	7.59	7.45	7.75
Picric acid	7.93	7.81	8.11
1,3,5-Trinitrobenzene	8.65	8.50	8.80
1,3-Dinitrobenzene	9.27	9.13	9.43
Nitrobenzene	9.66	9.51	9.81
Tetryl	9.97	9.83	10.13
Nitroglycerin	10.43	10.29	10.59
2,4,6-Trinitrotoluene	10.90	10.80	11.00
4-Amino-2,6-dinitrotoluene	11.10	11.01	11.21
2-Amino-4,6-dinitrotoluene	11.36	11.27	11.47
2,6-Dinitrotoluene	11.53	11.43	11.63
2,4-Dinitrotoluene	11.70	11.60	11.80
2-Nitrotoluene	12.57	12.43	12.73
4-Nitrotoluene	13.01	12.86	13.16
3-Nitrotoluene	13.59	13.45	13.75
PETN	14.68	14.53	14.83
1,2-Dinitrobenzene	8.52	8.38	8.68

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\020-1401.D
Lims ID: ICV INT
Client ID:
Sample Type: ICV
Inject. Date: 01-May-2021 21:27:37 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV INT
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:29:14 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:29:14

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.627	6.631	-0.004	41230	0.5000	0.4884	M
7 RDX	1	7.593	7.598	-0.005	51390	0.5000	0.4836	
8 2,4,6-Trinitrophenol	1	7.933	7.958	-0.025	43028	0.5000	0.5202	
$ 9 1,2-Dinitrobenzene	1	8.520	8.525	-0.005	67421	0.5000	0.5258	
10 1,3,5-Trinitrobenzene	1	8.647	8.651	-0.004	112195	0.5000	0.5092	
11 1,3-Dinitrobenzene	1	9.273	9.278	-0.005	150317	0.5000	0.5073	
12 Nitrobenzene	1	9.660	9.664	-0.004	98075	0.5000	0.5022	
14 Tetryl	1	9.973	9.978	-0.005	85701	0.5000	0.4970	
15 Nitroglycerin	2	10.433	10.438	-0.005	335112	5.00	5.16	
16 2,4,6-Trinitrotoluene	1	10.900	10.904	-0.004	105218	0.5000	0.5107	
17 4-Amino-2,6-dinitrotoluene	1	11.100	11.111	-0.011	73914	0.5000	0.4838	
18 2-Amino-4,6-dinitrotoluene	1	11.360	11.371	-0.011	101528	0.5000	0.4906	
19 2,6-Dinitrotoluene	1	11.526	11.531	-0.005	72464	0.5000	0.5065	
20 2,4-Dinitrotoluene	1	11.700	11.704	-0.004	139954	0.5000	0.4876	
21 o-Nitrotoluene	1	12.566	12.578	-0.012	62645	0.5000	0.4879	
22 p-Nitrotoluene	1	13.006	13.011	-0.005	54108	0.5000	0.4835	
23 m-Nitrotoluene	1	13.593	13.604	-0.011	68905	0.5000	0.4844	
24 PETN	2	14.680	14.684	-0.004	380912	5.00	5.09	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

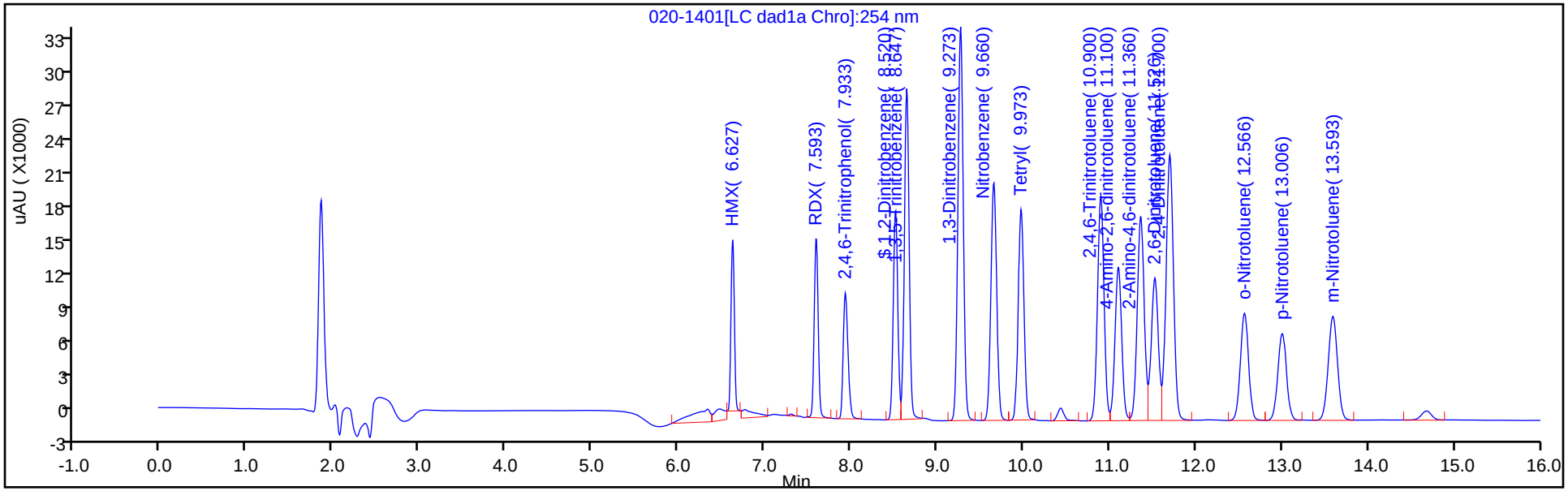
8330 LCS_00108 Amount Added: 50.00 Units: uL
8330Surrogate_00124 Amount Added: 50.00 Units: uL

Report Date: 04-May-2021 13:29:19 Chrom Revision: 2.3 08-Apr-2021 17:17:48

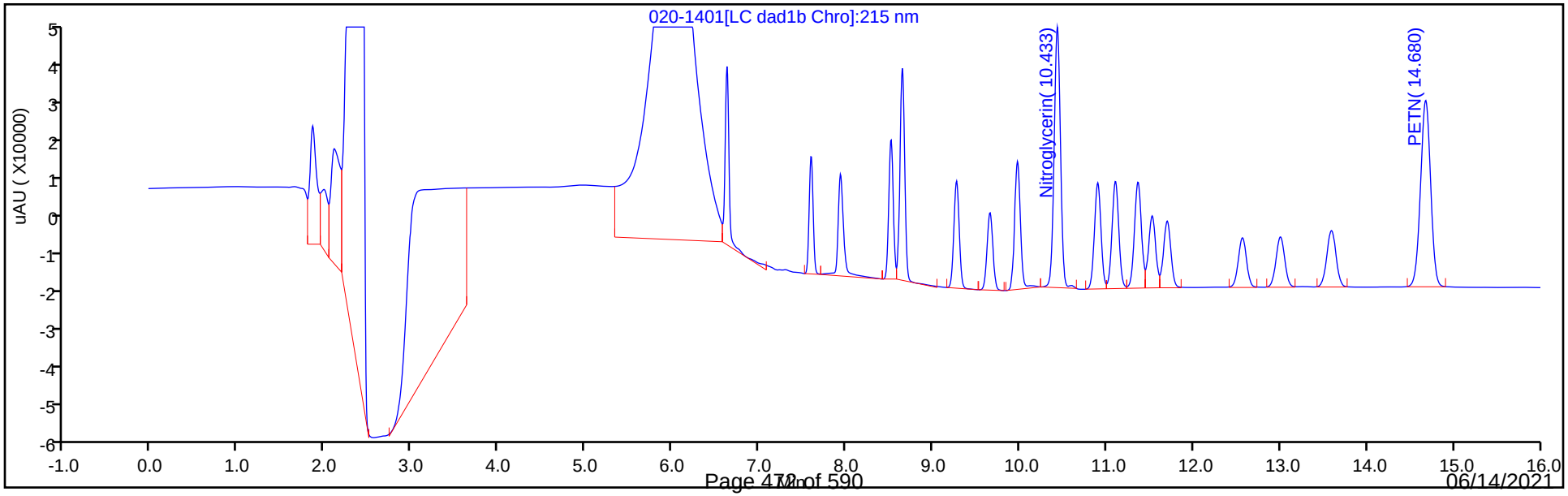
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\020-1401.d				
Injection Date:	01-May-2021 21:27:37	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	ICV INT			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

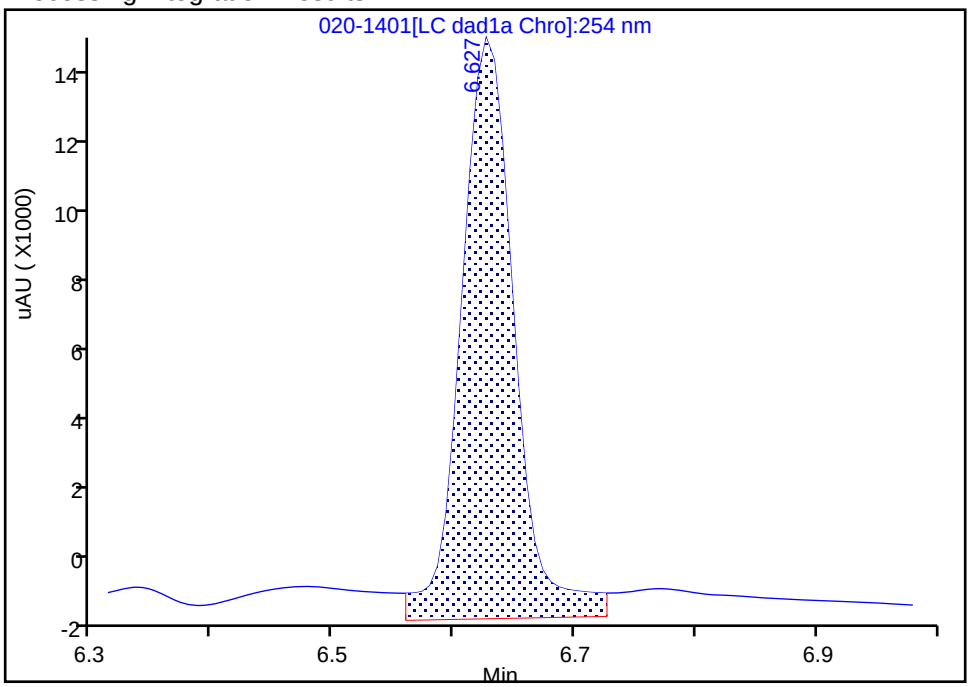
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210501-101094.b\020-1401.d				
Injection Date:	01-May-2021 21:27:37	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

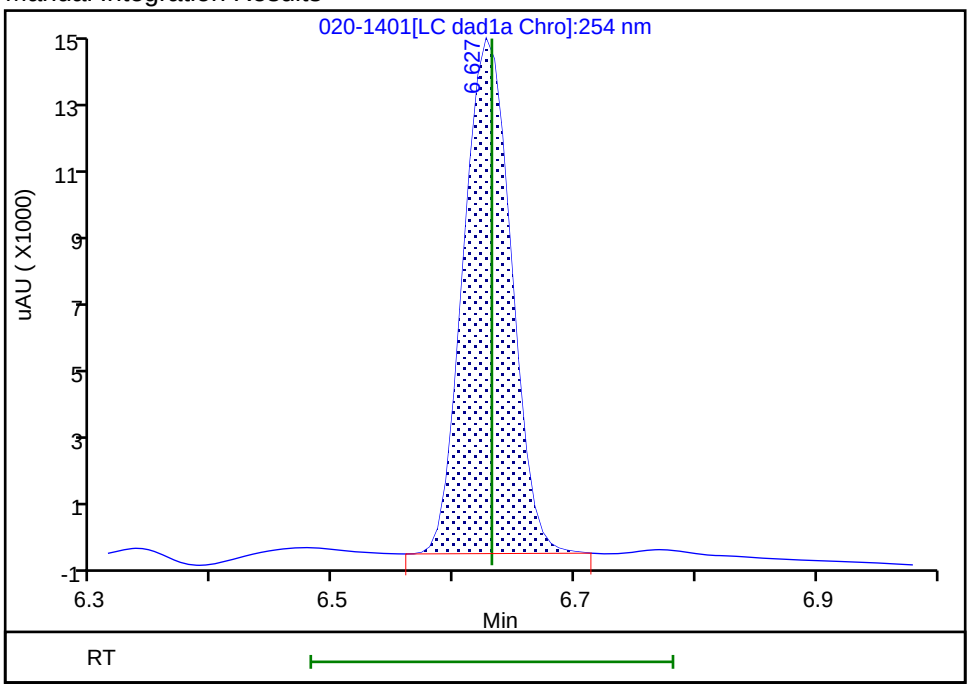
Processing Integration Results

RT: 6.63
Area: 48145
Amount: 0.570294
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 41230
Amount: 0.488383
Amount Units: ug/mL



Reviewer: zhangji, 04-May-2021 13:24:55
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/7 Calibration Date: 06/09/2021 15:38

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06090007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	84421	83436		247	250	-1.2	15.0
RDX	Ave	106261	100328		236	250	-5.6	15.0
Picric acid	Ave	82721	80140		242	250	-3.1	15.0
1,3,5-Trinitrobenzene	Ave	220317	220894		251	251	0.3	15.0
1,3-Dinitrobenzene	Ave	296329	297581		252	251	0.4	15.0
Nitrobenzene	Ave	195286	194542		250	251	-0.4	15.0
Tetryl	Ave	172420	167242		243	251	-3.0	15.0
Nitroglycerin	Lin2		65558		2490	2500	-0.4	15.0
2,4,6-Trinitrotoluene	Ave	206038	202888		247	251	-1.5	15.0
4-Amino-2,6-dinitrotoluene	Ave	152768	146785		240	250	-3.9	15.0
2-Amino-4,6-dinitrotoluene	Ave	206926	201215		244	251	-2.8	15.0
2,6-Dinitrotoluene	Ave	143079	144382		253	251	0.9	15.0
2,4-Dinitrotoluene	Ave	287012	284948		249	251	-0.7	15.0
2-Nitrotoluene	Ave	128392	125040		243	250	-2.6	15.0
4-Nitrotoluene	Ave	111913	107860		241	251	-3.6	15.0
3-Nitrotoluene	Ave	142246	137630		242	250	-3.2	15.0
PETN	Ave	74779	73704		2460	2500	-1.4	15.0
1,2-Dinitrobenzene	Ave	128217	131396		256	250	2.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/7 Calibration Date: 06/09/2021 15:38

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06090007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.58	7.43	7.73
Picric acid	7.94	7.79	8.09
1,3,5-Trinitrobenzene	8.64	8.49	8.79
1,3-Dinitrobenzene	9.26	9.11	9.41
Nitrobenzene	9.65	9.50	9.80
Tetryl	9.98	9.83	10.13
Nitroglycerin	10.44	10.29	10.59
2,4,6-Trinitrotoluene	10.90	10.80	11.00
4-Amino-2,6-dinitrotoluene	11.10	11.00	11.20
2-Amino-4,6-dinitrotoluene	11.36	11.26	11.46
2,6-Dinitrotoluene	11.53	11.43	11.63
2,4-Dinitrotoluene	11.70	11.60	11.80
2-Nitrotoluene	12.57	12.42	12.72
4-Nitrotoluene	13.01	12.86	13.16
3-Nitrotoluene	13.60	13.45	13.75
PETN	14.70	14.55	14.85
1,2-Dinitrobenzene	8.51	8.36	8.66

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090007.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 09-Jun-2021 15:38:59 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0102208-007
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:00 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 09-Jun-2021 16:37:55

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.611	6.611	0.000	20859	0.2500	0.2471	M
7 RDX	1	7.584	7.584	0.000	25082	0.2500	0.2360	
8 2,4,6-Trinitrophenol	1	7.944	7.944	0.000	20035	0.2500	0.2422	
$ 9 1,2-Dinitrobenzene	1	8.511	8.511	0.000	32849	0.2500	0.2562	
10 1,3,5-Trinitrobenzene	1	8.637	8.637	0.000	55334	0.2505	0.2512	
11 1,3-Dinitrobenzene	1	9.264	9.264	0.000	74544	0.2505	0.2516	
12 Nitrobenzene	1	9.651	9.651	0.000	48830	0.2510	0.2500	
14 Tetryl	1	9.977	9.977	0.000	41894	0.2505	0.2430	
15 Nitroglycerin	2	10.437	10.437	0.000	163895	2.50	2.49	
16 2,4,6-Trinitrotoluene	1	10.897	10.897	0.000	50925	0.2510	0.2472	
17 4-Amino-2,6-dinitrotoluene	1	11.104	11.104	0.000	36733	0.2503	0.2404	
18 2-Amino-4,6-dinitrotoluene	1	11.364	11.364	0.000	50505	0.2510	0.2441	
19 2,6-Dinitrotoluene	1	11.531	11.531	0.000	36240	0.2510	0.2533	
20 2,4-Dinitrotoluene	1	11.704	11.704	0.000	71522	0.2510	0.2492	
21 o-Nitrotoluene	1	12.571	12.571	0.000	31260	0.2500	0.2435	
22 p-Nitrotoluene	1	13.011	13.011	0.000	27019	0.2505	0.2414	
23 m-Nitrotoluene	1	13.597	13.597	0.000	34442	0.2503	0.2421	
24 PETN	2	14.697	14.697	0.000	184261	2.50	2.46	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

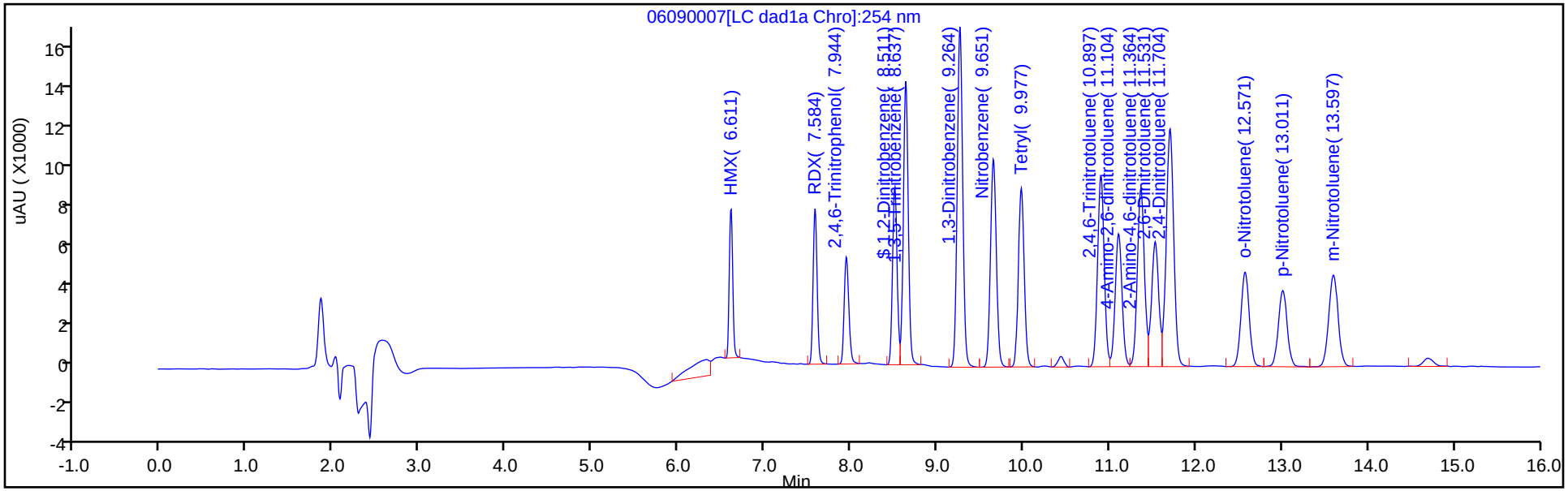
8330IntermStk_00068 Amount Added: 25.00 Units: uL

Report Date: 10-Jun-2021 13:30:00 Chrom Revision: 2.3 13-May-2021 07:57:40

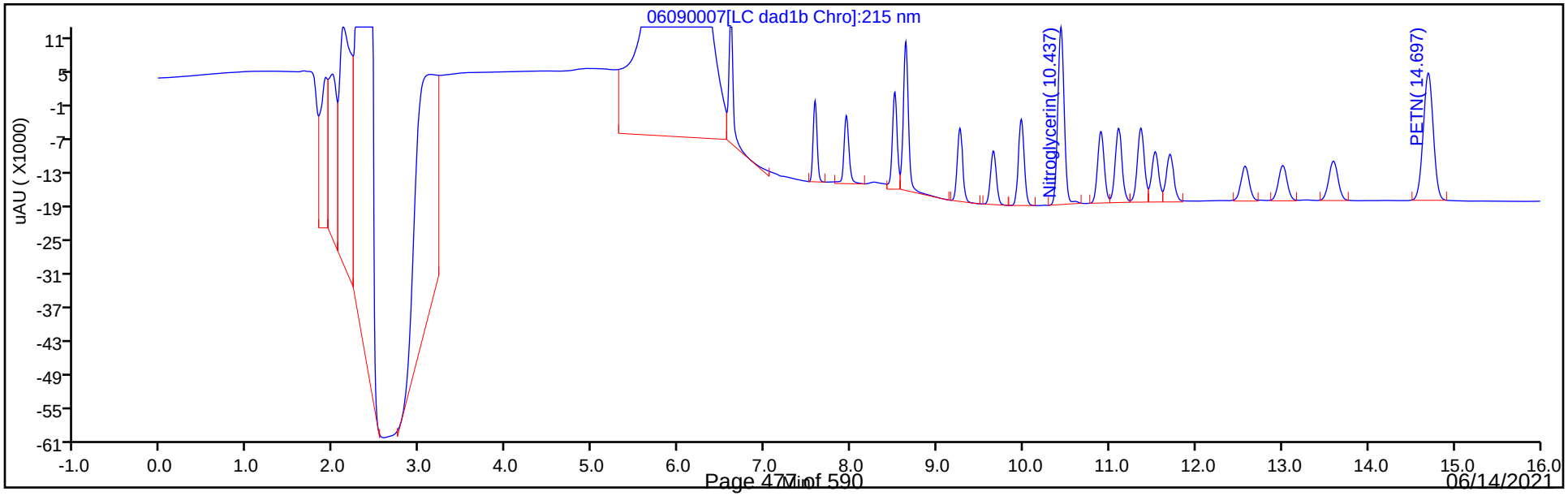
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090007.d				
Injection Date:	09-Jun-2021 15:38:59	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

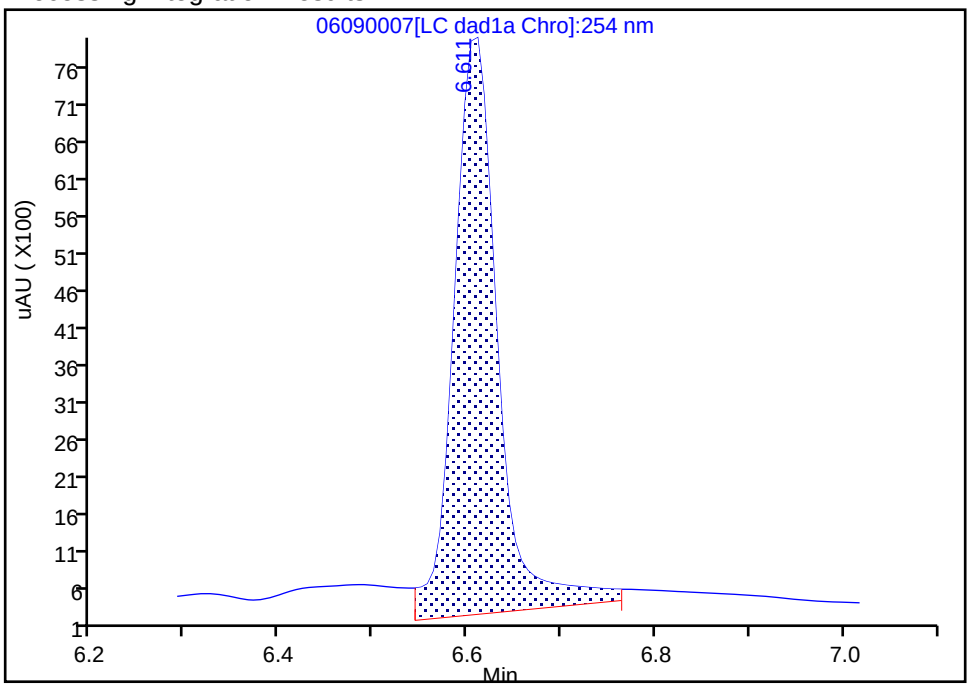
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090007.d				
Injection Date:	09-Jun-2021 15:38:59	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

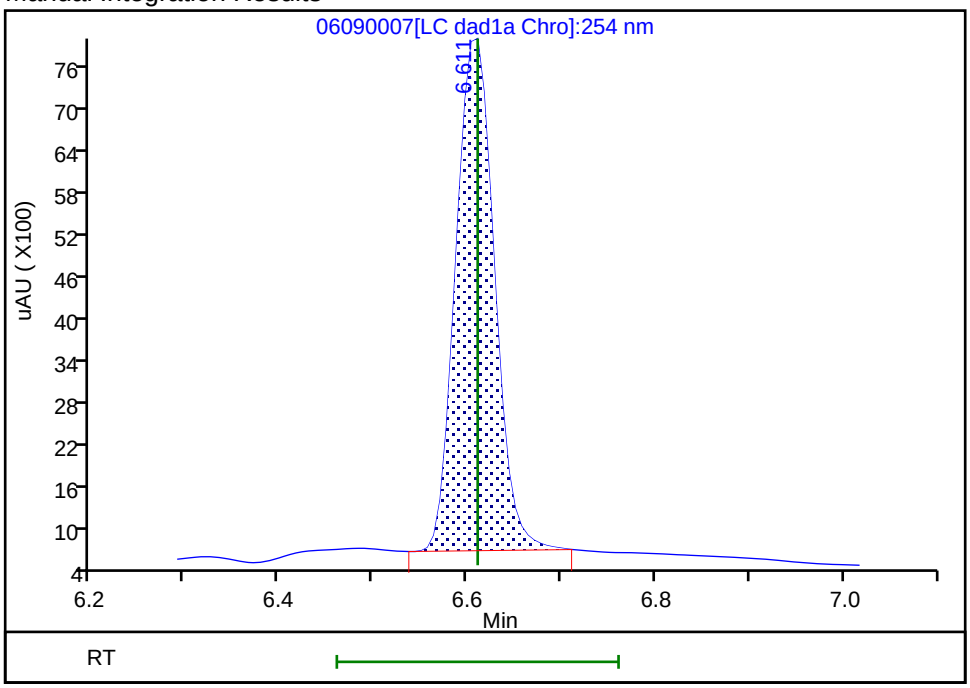
Processing Integration Results

RT: 6.61
Area: 24936
Amount: 0.295375
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 20859
Amount: 0.247082
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 16:38:05

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/9 Calibration Date: 06/09/2021 16:01

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 06090009.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	185806	191656		258	250	3.1	15.0
DNX	Ave	142119	144172		254	250	1.4	15.0
MNX	Ave	130340	132147		296	292	1.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/9 Calibration Date: 06/09/2021 16:01

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 06090009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.49	6.39	6.59
DNX	6.81	6.71	6.91
MNX	7.21	7.06	7.36

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090009.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	09-Jun-2021 16:01:57	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0102208-009				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 16:38:00

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.494	6.494	0.000	47962	0.2503	0.2581	M
5 DNX	1	6.808	6.808	0.000	36079	0.2503	0.2539	M
6 MNX	1	7.214	7.214	0.000	38554	0.2918	0.2958	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

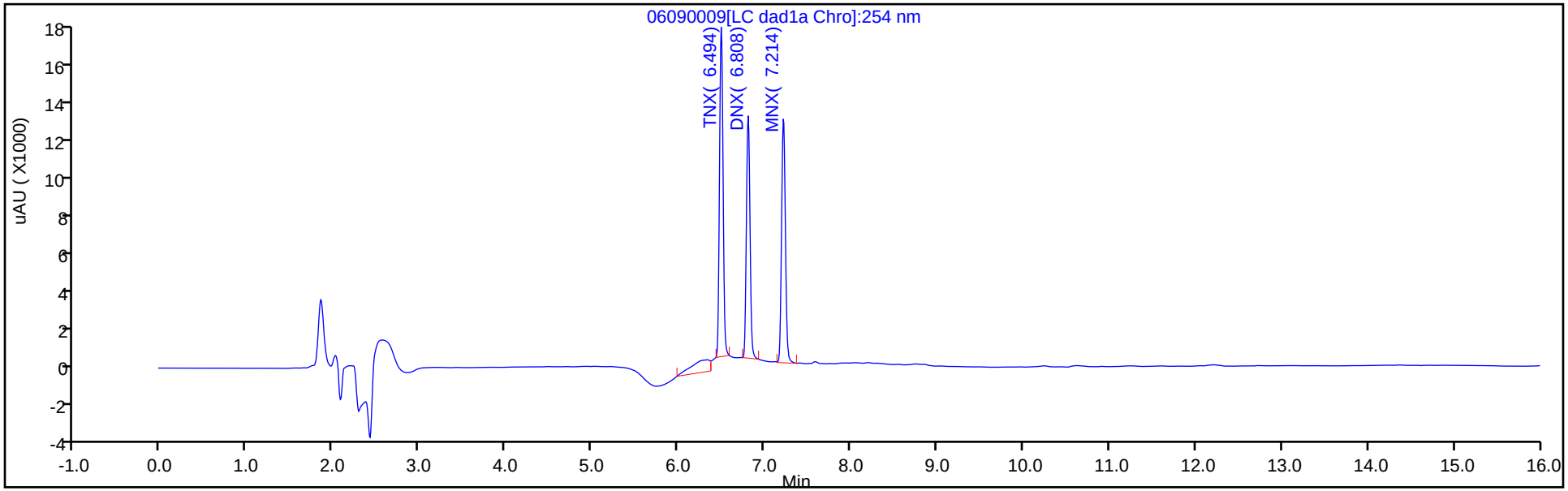
8330 DMT_00009 Amount Added: 12.50 Units: uL

Report Date: 10-Jun-2021 13:30:01 Chrom Revision: 2.3 13-May-2021 07:57:40

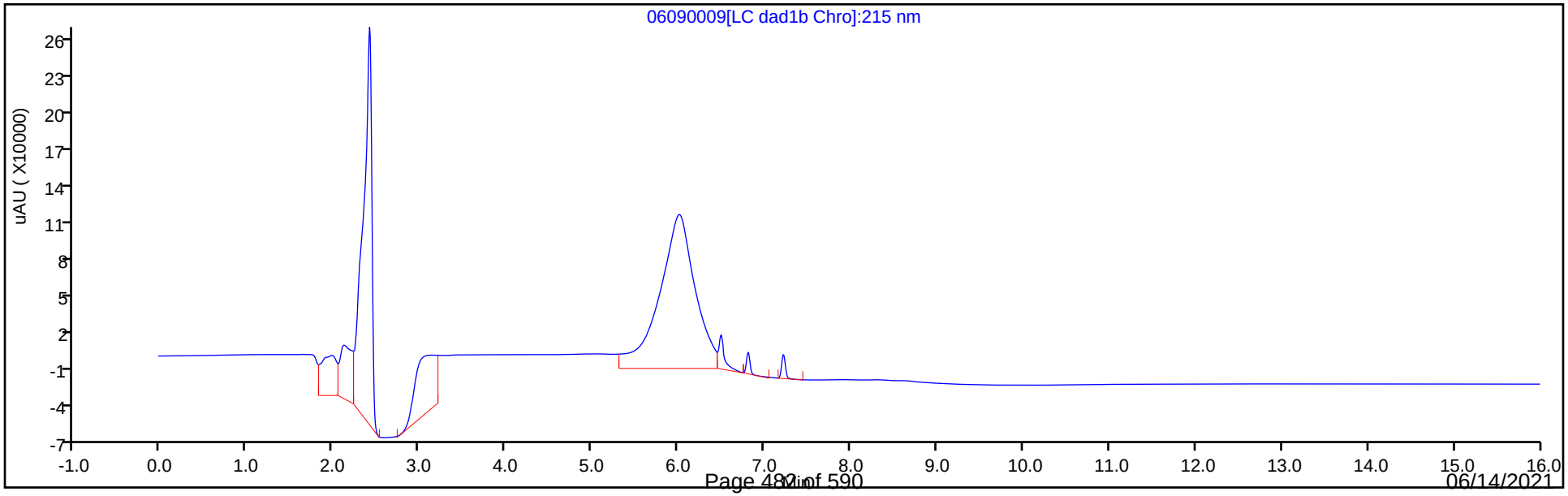
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090009.d				
Injection Date:	09-Jun-2021 16:01:57	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	9
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

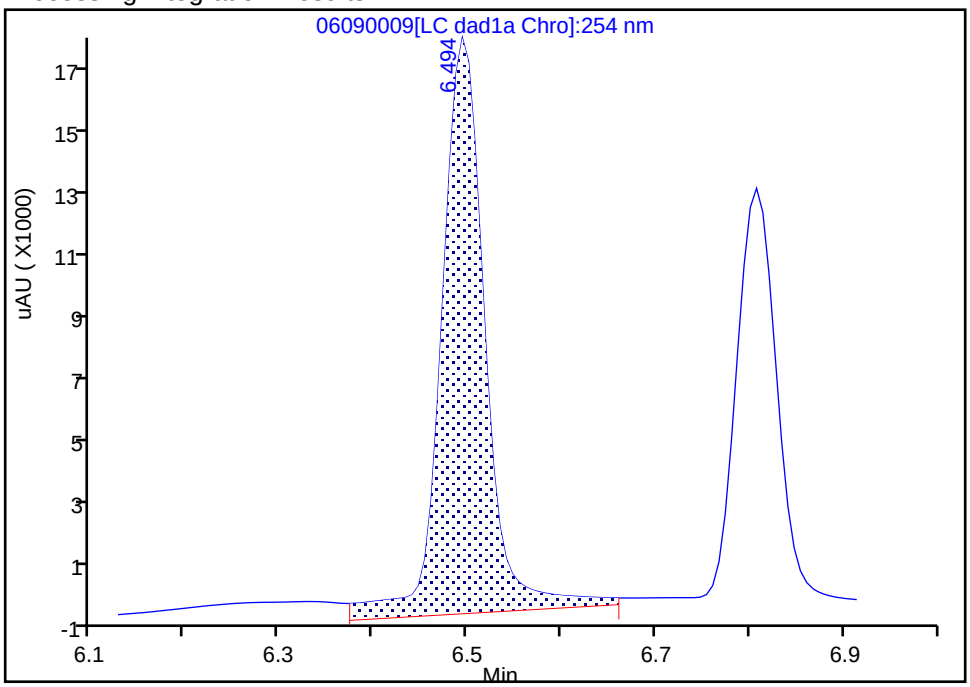
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090009.d				
Injection Date:	09-Jun-2021 16:01:57	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

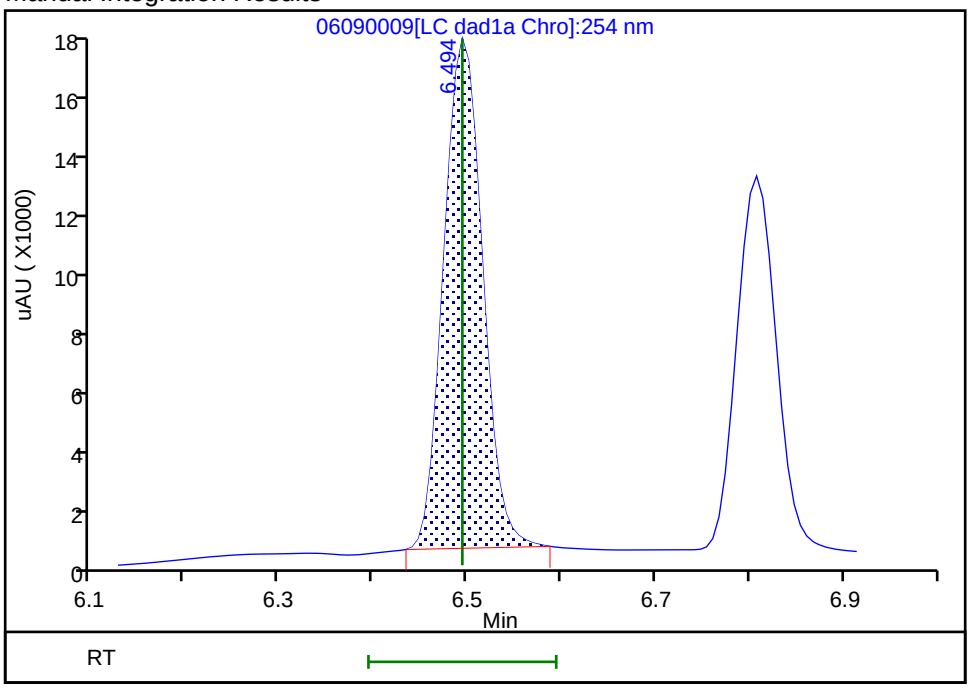
Processing Integration Results

RT: 6.49
Area: 55926
Amount: 0.300991
Amount Units: ug/mL



Manual Integration Results

RT: 6.49
Area: 47962
Amount: 0.258129
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 16:38:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

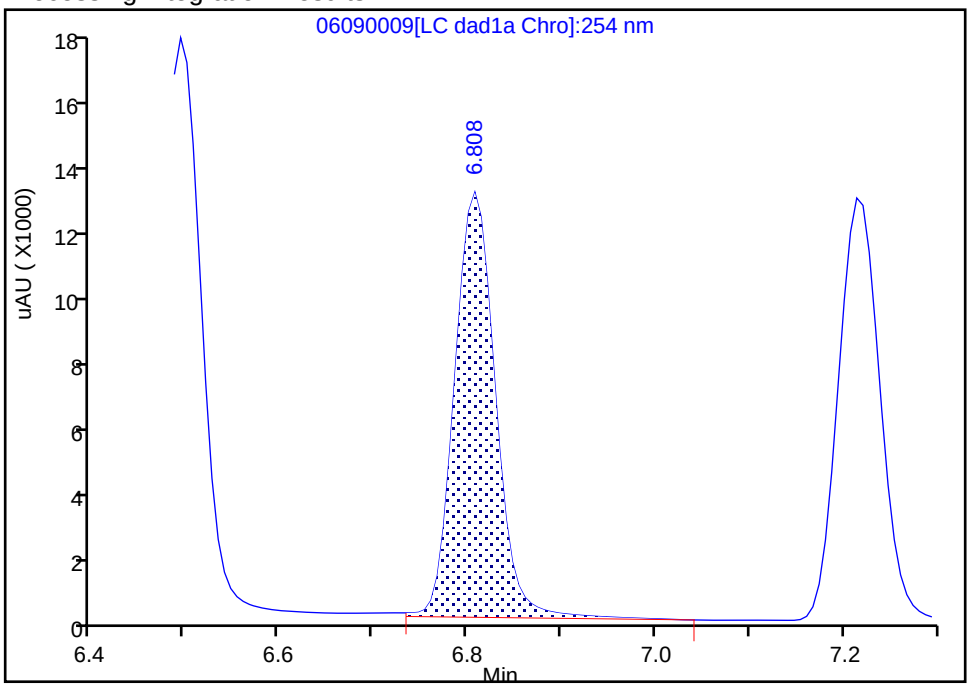
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090009.d				
Injection Date:	09-Jun-2021 16:01:57	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

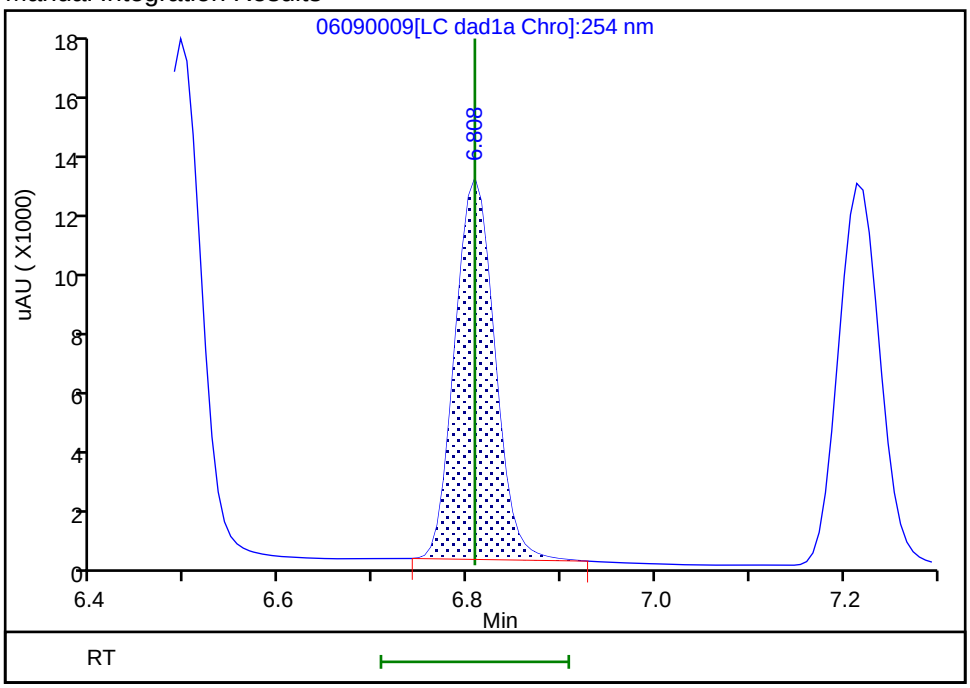
Processing Integration Results

RT: 6.81
Area: 37396
Amount: 0.263131
Amount Units: ug/mL



Manual Integration Results

RT: 6.81
Area: 36079
Amount: 0.253864
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 16:38:17
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/21 Calibration Date: 06/09/2021 20:14

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06090021.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	84421	83256		247	250	-1.4	15.0
RDX	Ave	106261	100296		236	250	-5.6	15.0
Picric acid	Ave	82721	80732		244	250	-2.4	15.0
1,3,5-Trinitrobenzene	Ave	220317	220922		251	251	0.3	15.0
1,3-Dinitrobenzene	Ave	296329	297210		251	251	0.3	15.0
Nitrobenzene	Ave	195286	193311		248	251	-1.0	15.0
Tetryl	Ave	172420	168459		245	251	-2.3	15.0
Nitroglycerin	Lin2		63895		2430	2500	-3.0	15.0
2,4,6-Trinitrotoluene	Ave	206038	204375		249	251	-0.8	15.0
4-Amino-2,6-dinitrotoluene	Ave	152768	147165		241	250	-3.7	15.0
2-Amino-4,6-dinitrotoluene	Ave	206926	201478		244	251	-2.6	15.0
2,6-Dinitrotoluene	Ave	143079	145012		254	251	1.4	15.0
2,4-Dinitrotoluene	Ave	287012	286283		250	251	-0.3	15.0
2-Nitrotoluene	Ave	128392	123568		241	250	-3.8	15.0
4-Nitrotoluene	Ave	111913	106719		239	251	-4.6	15.0
3-Nitrotoluene	Ave	142246	135664		239	250	-4.6	15.0
PETN	Ave	74779	73910		2470	2500	-1.2	15.0
1,2-Dinitrobenzene	Ave	128217	132348		258	250	3.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/21 Calibration Date: 06/09/2021 20:14

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06090021.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.59	7.43	7.73
Picric acid	7.95	7.79	8.09
1,3,5-Trinitrobenzene	8.64	8.49	8.79
1,3-Dinitrobenzene	9.27	9.11	9.41
Nitrobenzene	9.65	9.50	9.80
Tetryl	9.97	9.83	10.13
Nitroglycerin	10.43	10.29	10.59
2,4,6-Trinitrotoluene	10.90	10.80	11.00
4-Amino-2,6-dinitrotoluene	11.11	11.00	11.20
2-Amino-4,6-dinitrotoluene	11.36	11.26	11.46
2,6-Dinitrotoluene	11.53	11.43	11.63
2,4-Dinitrotoluene	11.70	11.60	11.80
2-Nitrotoluene	12.57	12.42	12.72
4-Nitrotoluene	13.01	12.86	13.16
3-Nitrotoluene	13.59	13.45	13.75
PETN	14.69	14.55	14.85
1,2-Dinitrobenzene	8.51	8.36	8.66

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090021.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 09-Jun-2021 20:14:34 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0102208-021
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:06 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 09-Jun-2021 20:42:55

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.612	6.611	0.001	20814	0.2500	0.2465	M
7 RDX	1	7.585	7.584	0.001	25074	0.2500	0.2360	
8 2,4,6-Trinitrophenol	1	7.952	7.944	0.008	20183	0.2500	0.2440	
$ 9 1,2-Dinitrobenzene	1	8.505	8.511	-0.006	33087	0.2500	0.2581	
10 1,3,5-Trinitrobenzene	1	8.639	8.637	0.002	55341	0.2505	0.2512	
11 1,3-Dinitrobenzene	1	9.265	9.264	0.001	74451	0.2505	0.2512	
12 Nitrobenzene	1	9.652	9.651	0.001	48521	0.2510	0.2485	
14 Tetryl	1	9.972	9.977	-0.005	42199	0.2505	0.2447	
15 Nitroglycerin	2	10.432	10.437	-0.005	159738	2.50	2.43	
16 2,4,6-Trinitrotoluene	1	10.899	10.897	0.002	51298	0.2510	0.2490	
17 4-Amino-2,6-dinitrotoluene	1	11.105	11.104	0.001	36828	0.2503	0.2411	
18 2-Amino-4,6-dinitrotoluene	1	11.359	11.364	-0.005	50571	0.2510	0.2444	
19 2,6-Dinitrotoluene	1	11.525	11.531	-0.006	36398	0.2510	0.2544	
20 2,4-Dinitrotoluene	1	11.699	11.704	-0.005	71857	0.2510	0.2504	
21 o-Nitrotoluene	1	12.565	12.571	-0.006	30892	0.2500	0.2406	
22 p-Nitrotoluene	1	13.005	13.011	-0.006	26733	0.2505	0.2389	
23 m-Nitrotoluene	1	13.592	13.597	-0.005	33950	0.2503	0.2387	
24 PETN	2	14.685	14.697	-0.012	184774	2.50	2.47	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

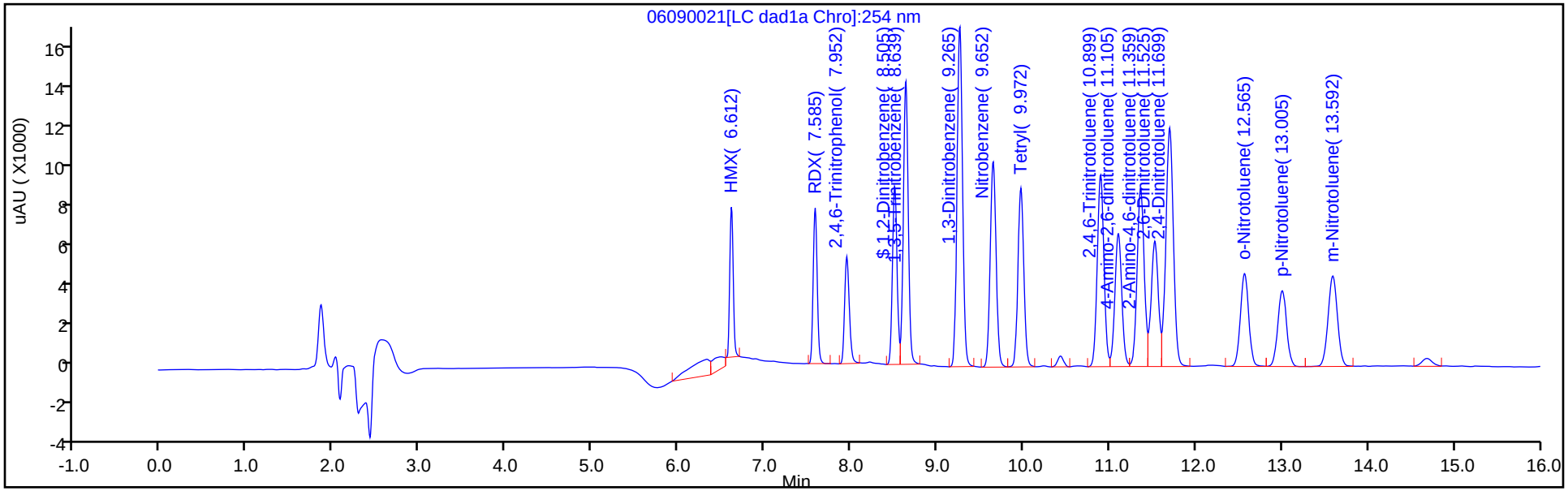
8330IntermStk_00068 Amount Added: 25.00 Units: uL

Report Date: 10-Jun-2021 13:30:07 Chrom Revision: 2.3 13-May-2021 07:57:40

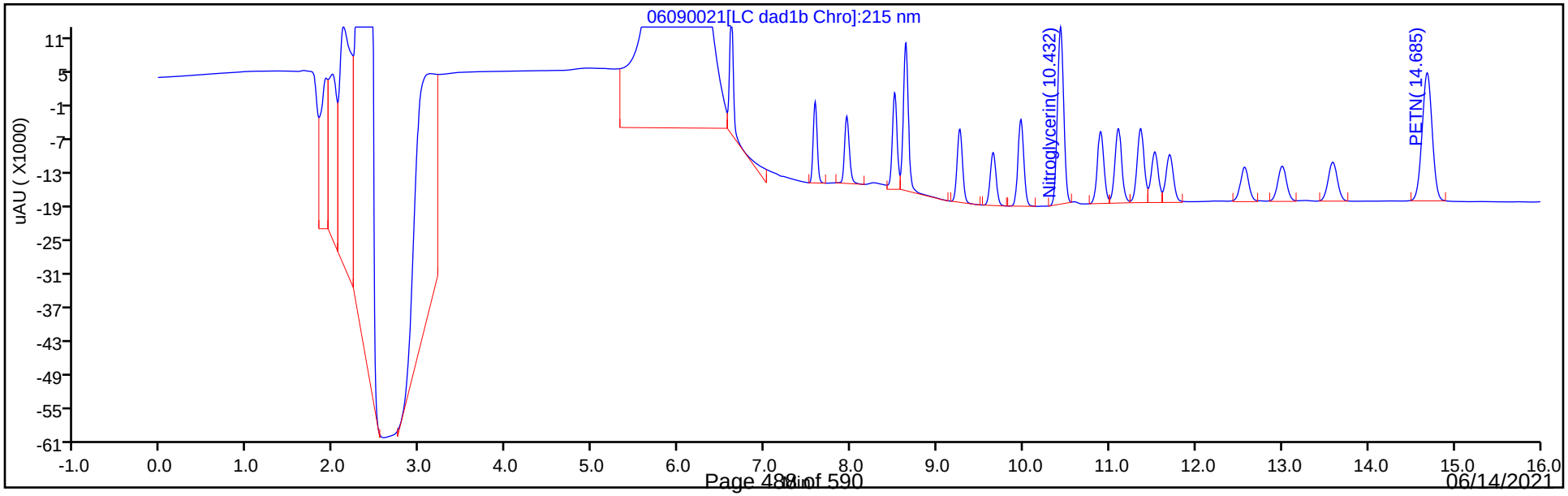
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090021.d				
Injection Date:	09-Jun-2021 20:14:34	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

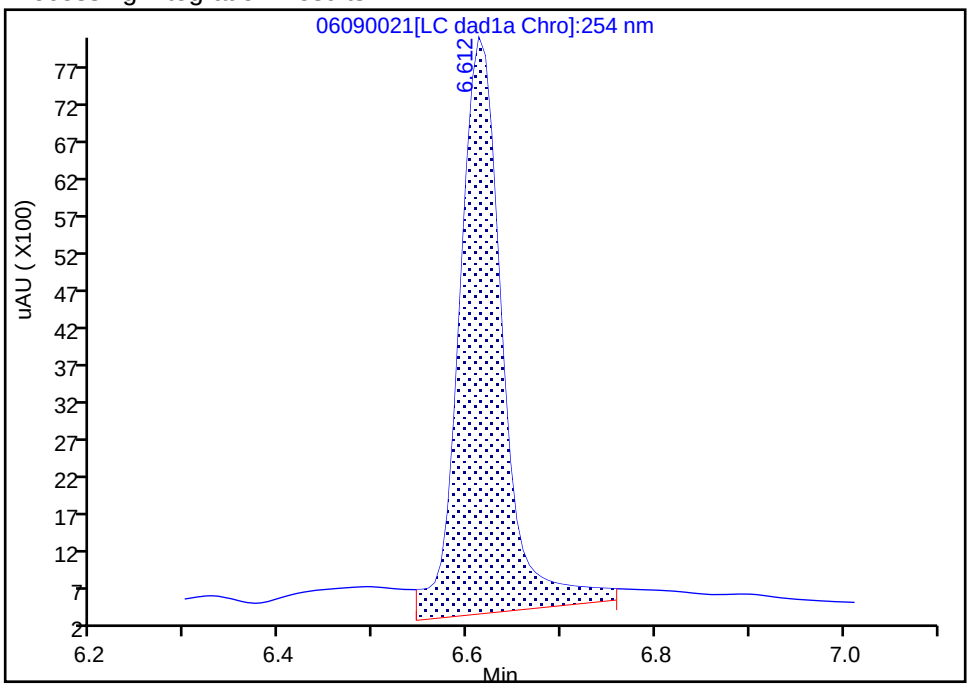
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090021.d				
Injection Date:	09-Jun-2021 20:14:34	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

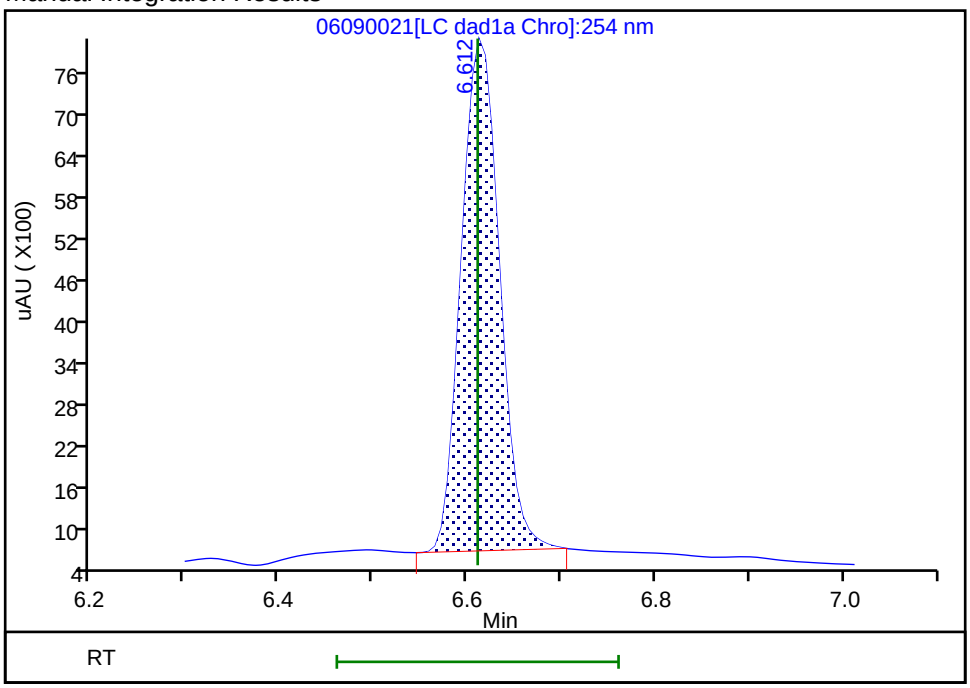
Processing Integration Results

RT: 6.61
Area: 24736
Amount: 0.293006
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 20814
Amount: 0.246549
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 20:42:53
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/22 Calibration Date: 06/09/2021 20:37

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 06090022.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	185806	191201		258	250	2.9	15.0
DNX	Ave	142119	144787		255	250	1.9	15.0
MNX	Ave	130340	131685		295	292	1.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/22 Calibration Date: 06/09/2021 20:37

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 06090022.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.50	6.39	6.59
DNX	6.81	6.71	6.91
MNX	7.22	7.06	7.36

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090022.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	09-Jun-2021 20:37:33	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0102208-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:07	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 21:03:00

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.495	6.494	0.001	47848	0.2503	0.2575	M
5 DNX	1	6.808	6.808	0.000	36233	0.2503	0.2549	M
6 MNX	1	7.222	7.214	0.008	38419	0.2918	0.2948	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

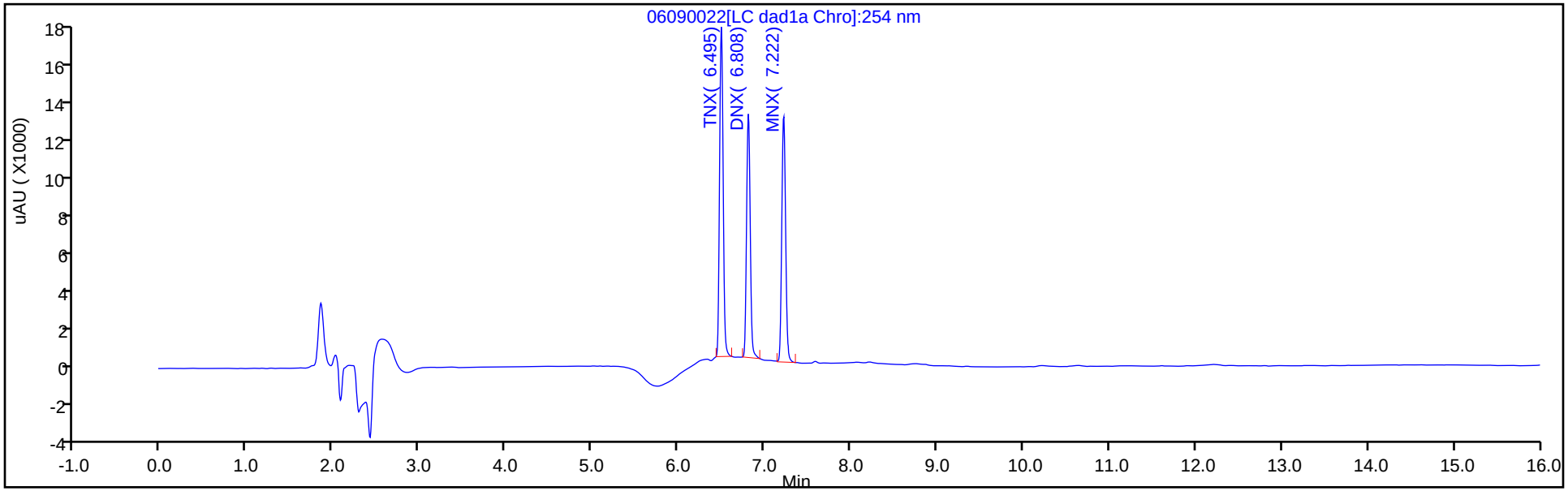
8330 DMT_00009 Amount Added: 12.50 Units: uL

Report Date: 10-Jun-2021 13:30:07 Chrom Revision: 2.3 13-May-2021 07:57:40

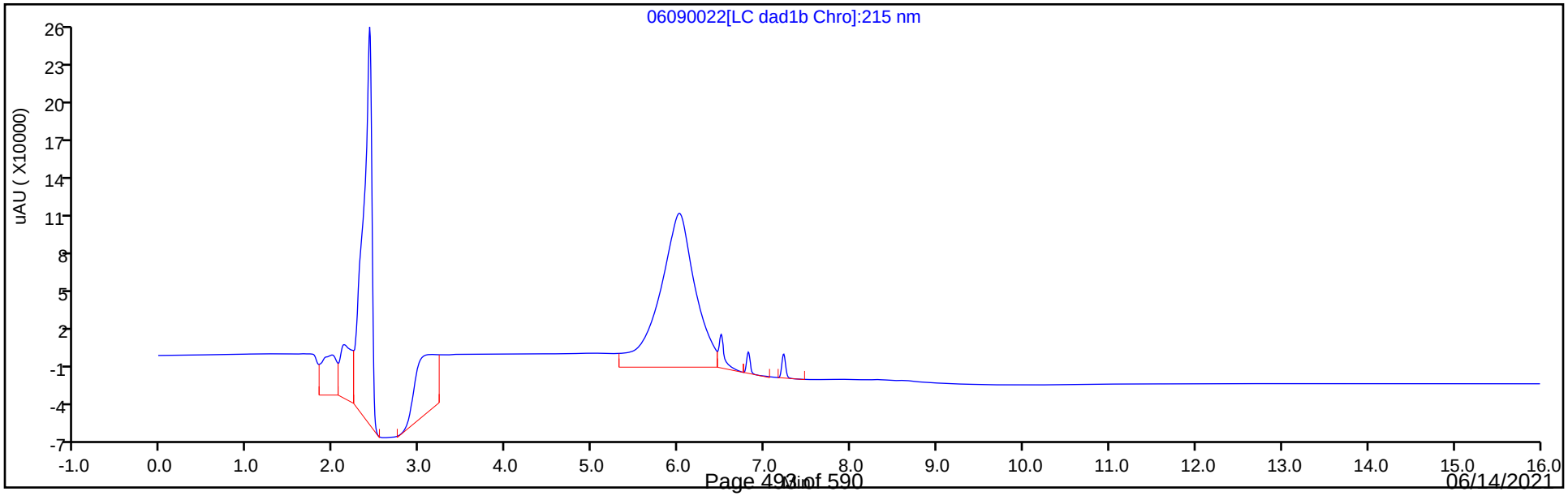
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090022.d				
Injection Date:	09-Jun-2021 20:37:33	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

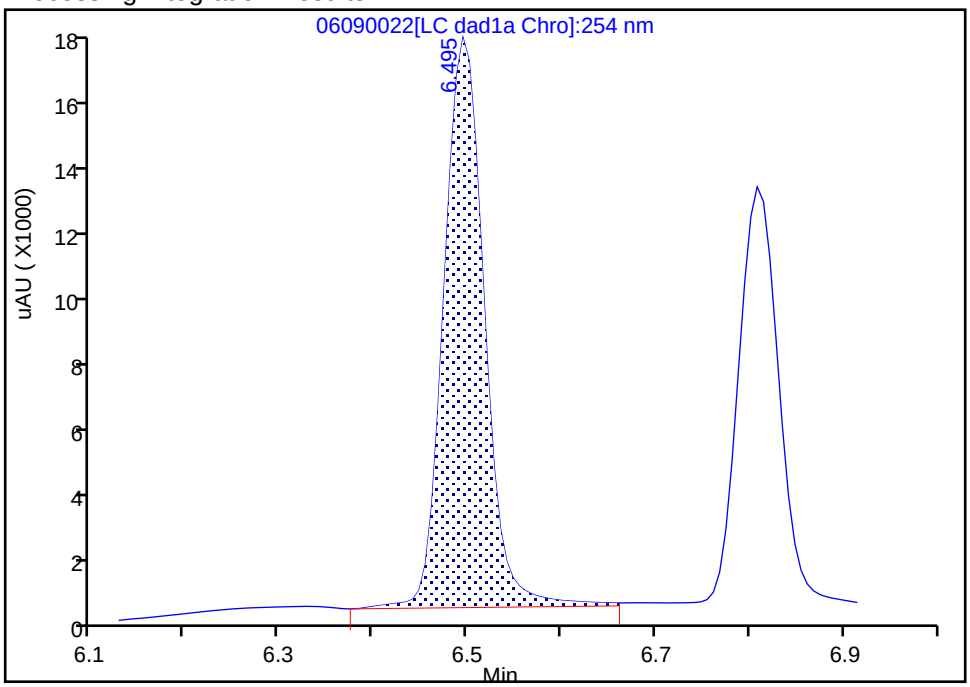
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090022.d				
Injection Date:	09-Jun-2021 20:37:33	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

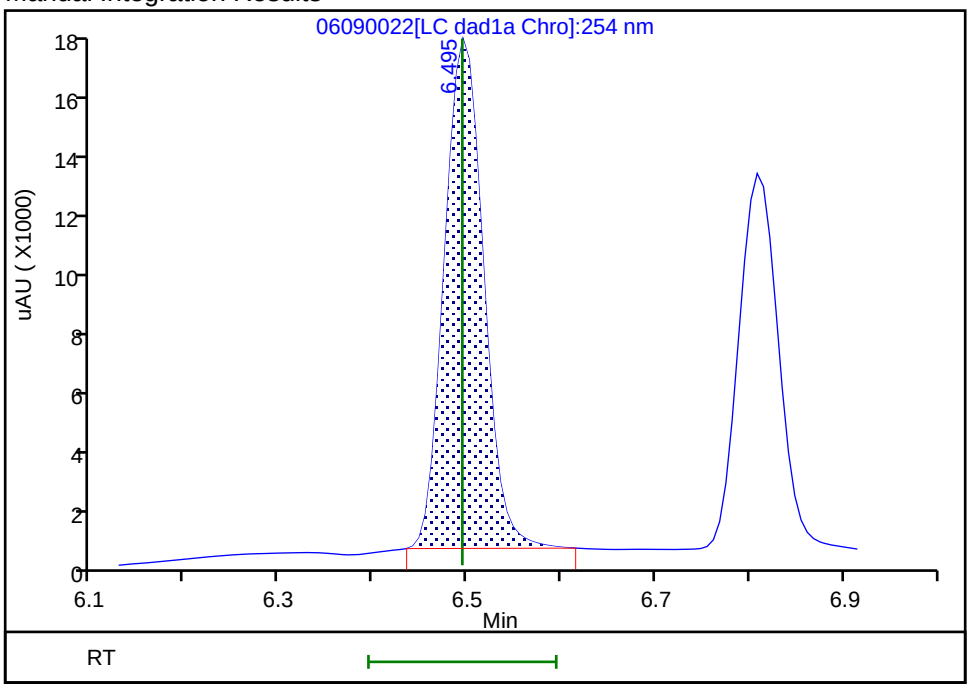
Processing Integration Results

RT: 6.50
Area: 50228
Amount: 0.270325
Amount Units: ug/mL



Manual Integration Results

RT: 6.50
Area: 47848
Amount: 0.257516
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 21:02:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

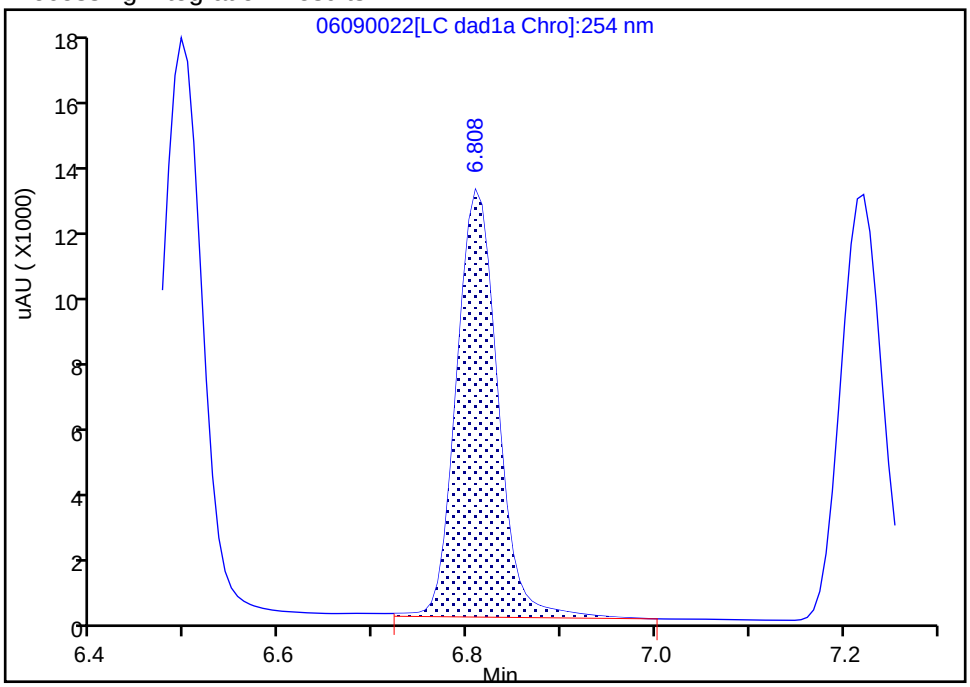
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090022.d				
Injection Date:	09-Jun-2021 20:37:33	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

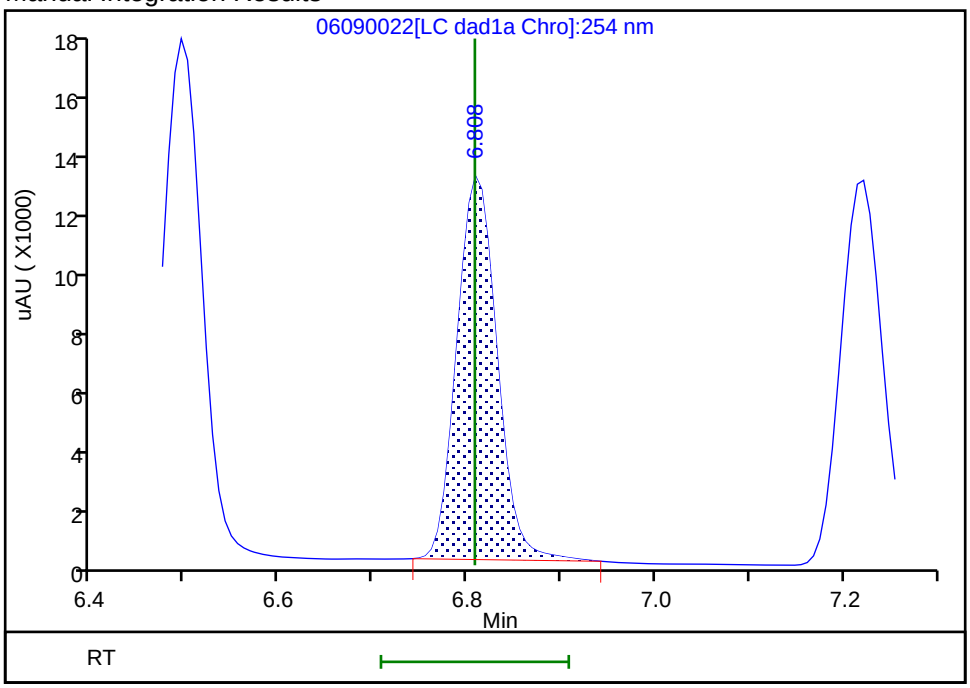
Processing Integration Results

RT: 6.81
Area: 37397
Amount: 0.263138
Amount Units: ug/mL



Manual Integration Results

RT: 6.81
Area: 36233
Amount: 0.254948
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 21:02:57
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/33 Calibration Date: 06/10/2021 00:50

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06090033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	84421	84216		249	250	-0.2	15.0
RDX	Ave	106261	100952		238	250	-5.0	15.0
Picric acid	Ave	82721	80992		245	250	-2.1	15.0
1,3,5-Trinitrobenzene	Ave	220317	221717		252	251	0.6	15.0
1,3-Dinitrobenzene	Ave	296329	298080		252	251	0.6	15.0
Nitrobenzene	Ave	195286	189394		243	251	-3.0	15.0
Tetryl	Ave	172420	167126		243	251	-3.1	15.0
Nitroglycerin	Lin2		63828		2420	2500	-3.1	15.0
2,4,6-Trinitrotoluene	Ave	206038	204586		249	251	-0.7	15.0
4-Amino-2,6-dinitrotoluene	Ave	152768	147173		241	250	-3.7	15.0
2-Amino-4,6-dinitrotoluene	Ave	206926	201335		244	251	-2.7	15.0
2,6-Dinitrotoluene	Ave	143079	145020		254	251	1.4	15.0
2,4-Dinitrotoluene	Ave	287012	285884		250	251	-0.4	15.0
2-Nitrotoluene	Ave	128392	121148		236	250	-5.6	15.0
4-Nitrotoluene	Ave	111913	105014		235	251	-6.2	15.0
3-Nitrotoluene	Ave	142246	132827		234	250	-6.6	15.0
PETN	Ave	74779	74008		2470	2500	-1.0	15.0
1,2-Dinitrobenzene	Ave	128217	131752		257	250	2.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/33 Calibration Date: 06/10/2021 00:50

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06090033.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.58	7.43	7.73
Picric acid	7.95	7.79	8.09
1,3,5-Trinitrobenzene	8.63	8.49	8.79
1,3-Dinitrobenzene	9.26	9.11	9.41
Nitrobenzene	9.65	9.50	9.80
Tetryl	9.97	9.83	10.13
Nitroglycerin	10.43	10.29	10.59
2,4,6-Trinitrotoluene	10.89	10.80	11.00
4-Amino-2,6-dinitrotoluene	11.10	11.00	11.20
2-Amino-4,6-dinitrotoluene	11.36	11.26	11.46
2,6-Dinitrotoluene	11.53	11.43	11.63
2,4-Dinitrotoluene	11.70	11.60	11.80
2-Nitrotoluene	12.57	12.42	12.72
4-Nitrotoluene	13.01	12.86	13.16
3-Nitrotoluene	13.59	13.45	13.75
PETN	14.69	14.55	14.85
1,2-Dinitrobenzene	8.51	8.36	8.66

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090033.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 10-Jun-2021 00:50:20 ALS Bottle#: 7 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0102208-033
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:14 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 10-Jun-2021 13:03:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.611	6.611	0.000	21054	0.2500	0.2494	M
7 RDX	1	7.578	7.584	-0.006	25238	0.2500	0.2375	
8 2,4,6-Trinitrophenol	1	7.951	7.944	0.007	20248	0.2500	0.2448	
$ 9 1,2-Dinitrobenzene	1	8.505	8.511	-0.006	32938	0.2500	0.2569	
10 1,3,5-Trinitrobenzene	1	8.631	8.637	-0.006	55540	0.2505	0.2521	
11 1,3-Dinitrobenzene	1	9.258	9.264	-0.006	74669	0.2505	0.2520	
12 Nitrobenzene	1	9.645	9.651	-0.006	47538	0.2510	0.2434	
14 Tetryl	1	9.971	9.977	-0.006	41865	0.2505	0.2428	
15 Nitroglycerin	2	10.431	10.437	-0.006	159571	2.50	2.42	
16 2,4,6-Trinitrotoluene	1	10.891	10.897	-0.006	51351	0.2510	0.2492	
17 4-Amino-2,6-dinitrotoluene	1	11.098	11.104	-0.006	36830	0.2503	0.2411	
18 2-Amino-4,6-dinitrotoluene	1	11.358	11.364	-0.006	50535	0.2510	0.2442	
19 2,6-Dinitrotoluene	1	11.525	11.531	-0.006	36400	0.2510	0.2544	
20 2,4-Dinitrotoluene	1	11.698	11.704	-0.006	71757	0.2510	0.2500	
21 o-Nitrotoluene	1	12.571	12.571	0.000	30287	0.2500	0.2359	
22 p-Nitrotoluene	1	13.005	13.011	-0.006	26306	0.2505	0.2351	
23 m-Nitrotoluene	1	13.591	13.597	-0.006	33240	0.2503	0.2337	
24 PETN	2	14.691	14.697	-0.006	185021	2.50	2.47	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

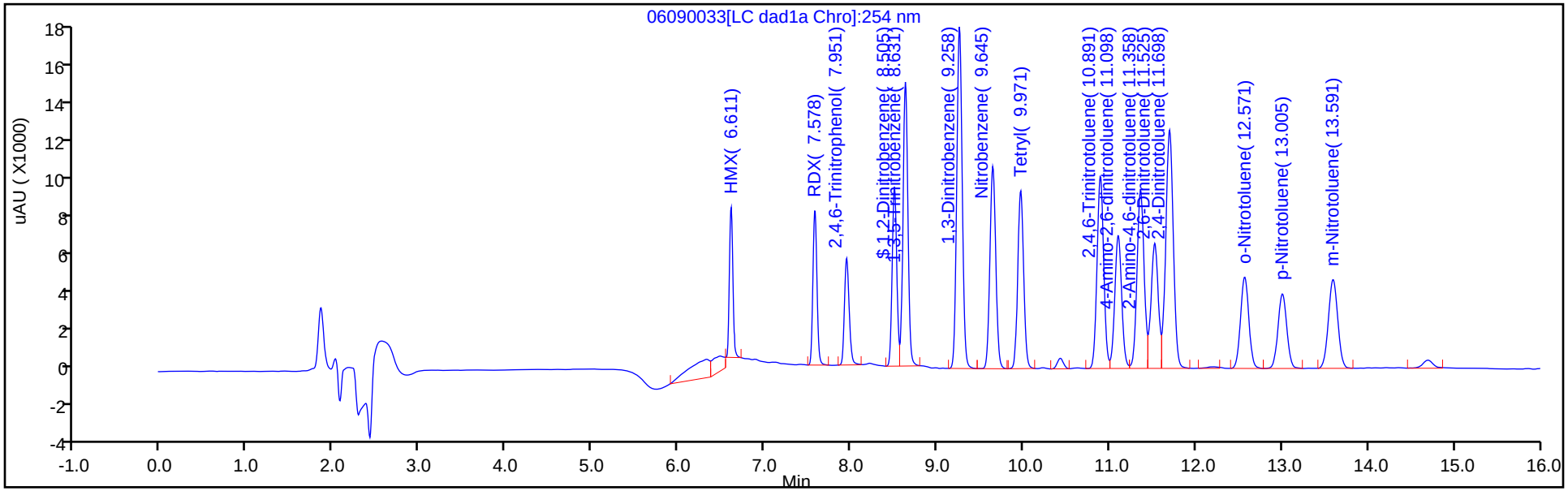
8330IntermStk_00068 Amount Added: 25.00 Units: uL

Report Date: 10-Jun-2021 13:30:14 Chrom Revision: 2.3 13-May-2021 07:57:40

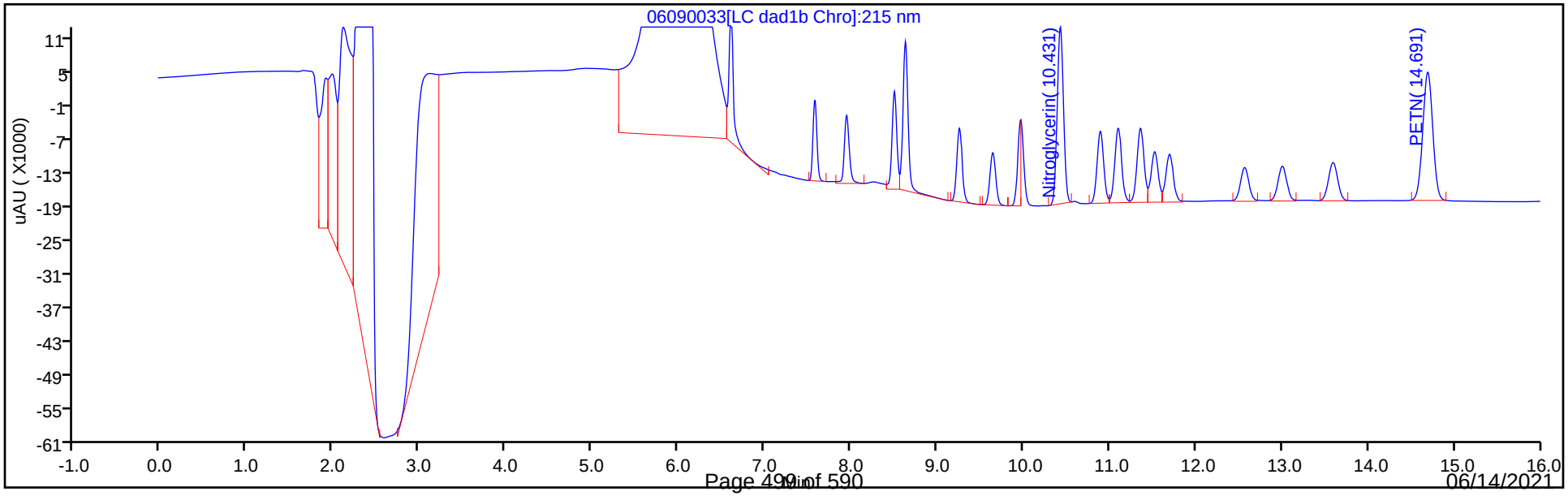
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090033.d				
Injection Date:	10-Jun-2021 00:50:20	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	33
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

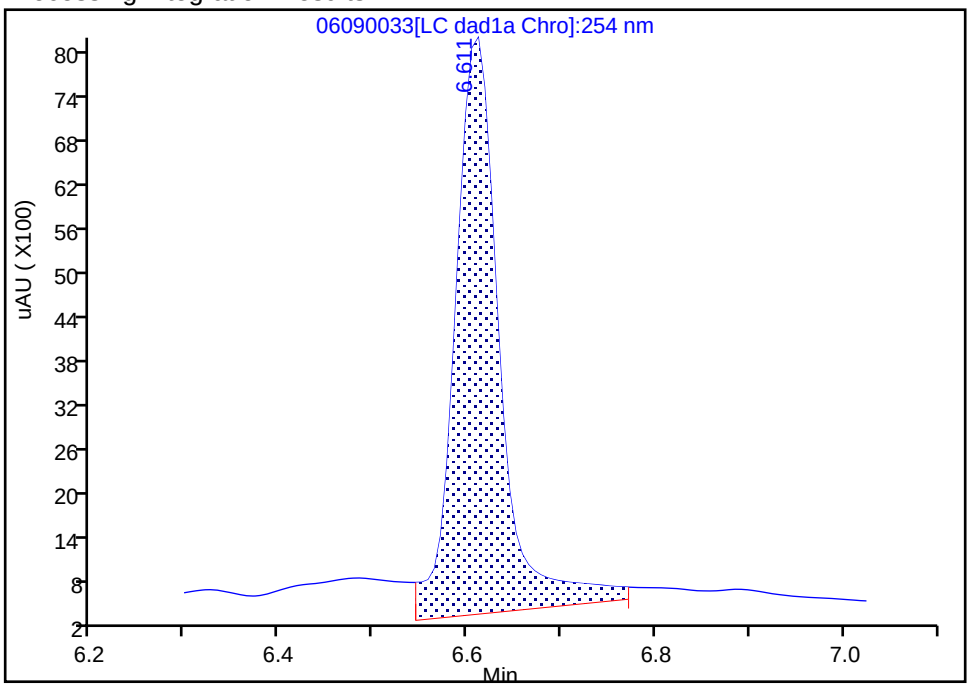
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090033.d				
Injection Date:	10-Jun-2021 00:50:20	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

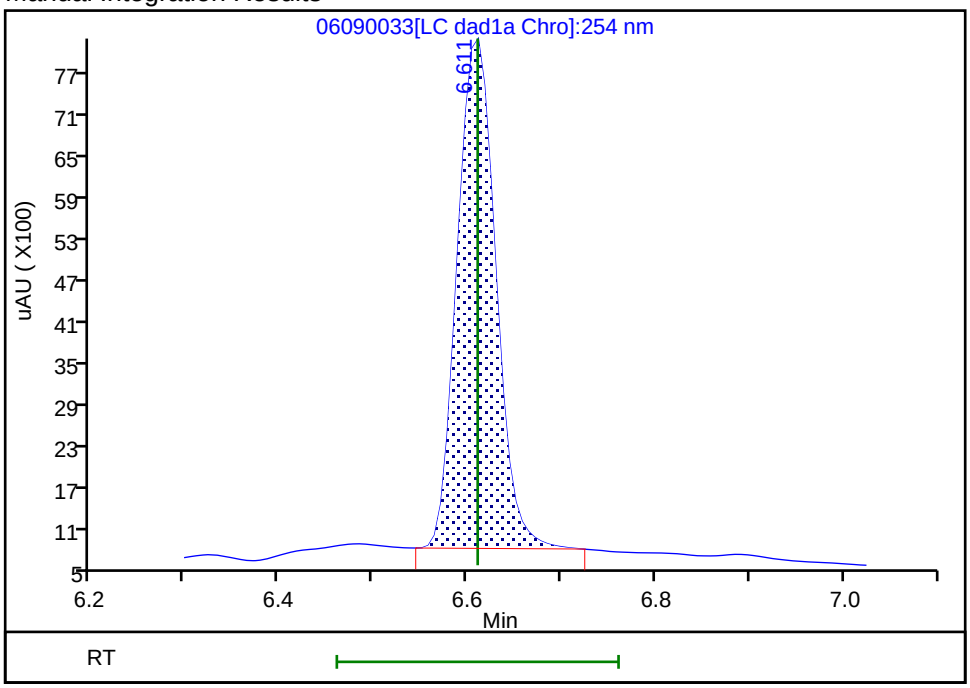
Processing Integration Results

RT: 6.61
Area: 25890
Amount: 0.306676
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 21054
Amount: 0.249392
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 13:03:31

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/34 Calibration Date: 06/10/2021 01:13

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 06090034.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	185806	186925		252	250	0.6	15.0
DNX	Ave	142119	144799		255	250	1.9	15.0
MNX	Ave	130340	131592		295	292	1.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539202/34 Calibration Date: 06/10/2021 01:13

Instrument ID: CHHPLC_X3 Calib Start Date: 03/02/2021 23:49

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/03/2021 02:30

Lab File ID: 06090034.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.50	6.39	6.59
DNX	6.80	6.71	6.91
MNX	7.22	7.06	7.36

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090034.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	10-Jun-2021 01:13:19	ALS Bottle#:	9	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0102208-034				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:14	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 10-Jun-2021 13:03:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.495	6.494	0.001	46778	0.2503	0.2518	M
5 DNX	1	6.802	6.808	-0.006	36236	0.2503	0.2550	M
6 MNX	1	7.215	7.214	0.001	38392	0.2918	0.2946	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

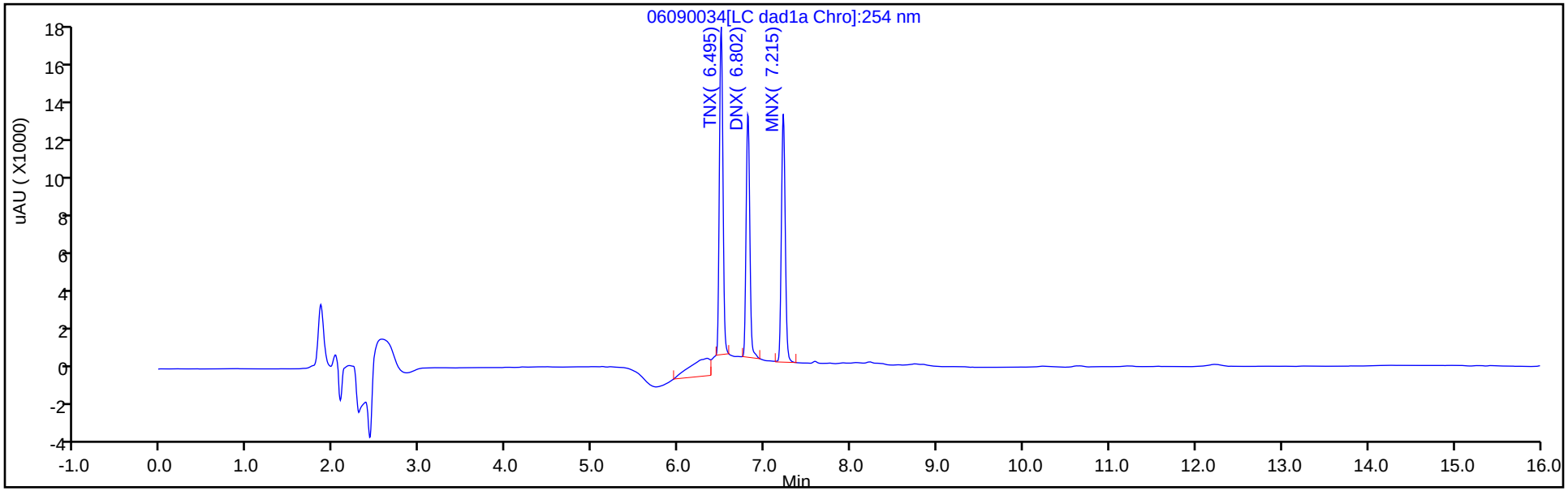
8330 DMT_00009 Amount Added: 12.50 Units: uL

Report Date: 10-Jun-2021 13:30:15 Chrom Revision: 2.3 13-May-2021 07:57:40

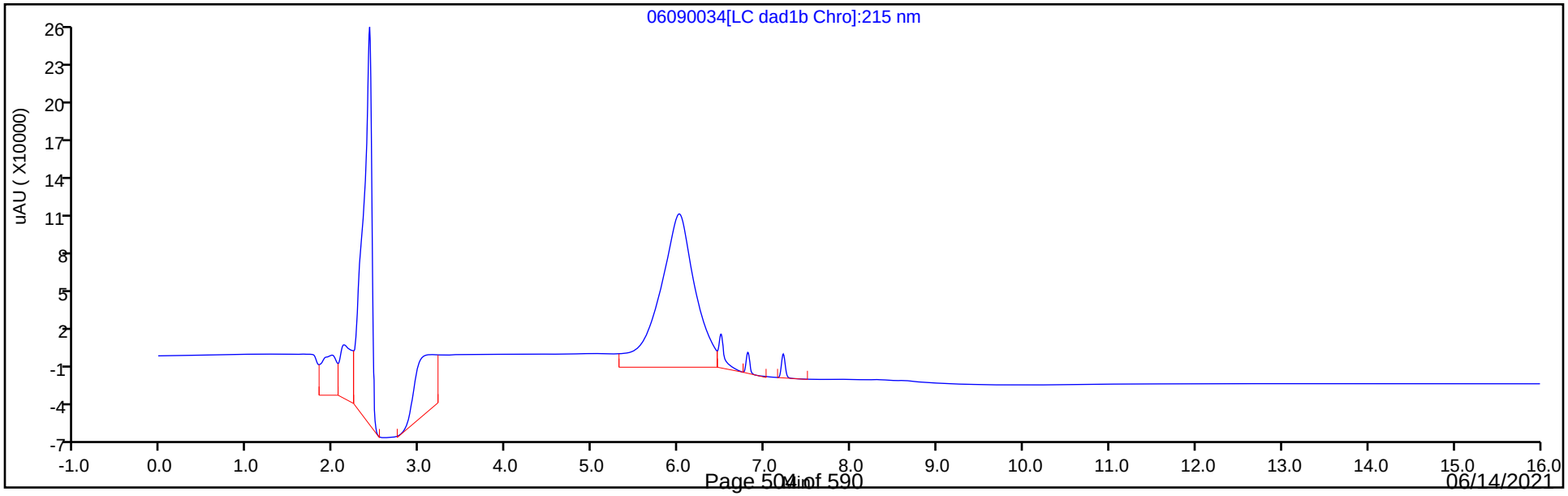
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090034.d				
Injection Date:	10-Jun-2021 01:13:19	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	34
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

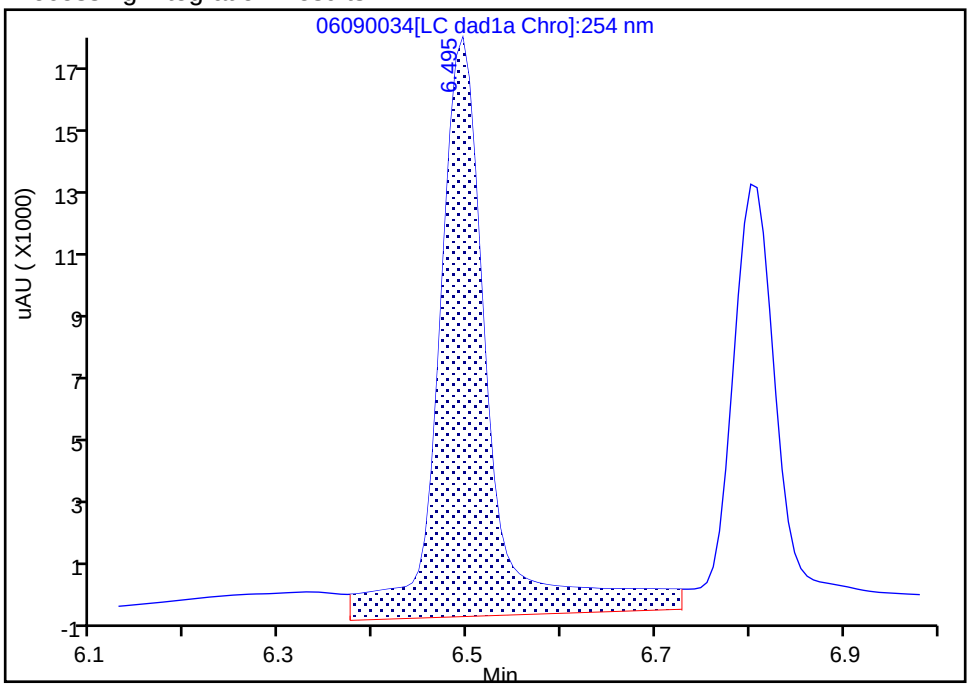
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090034.d				
Injection Date:	10-Jun-2021 01:13:19	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

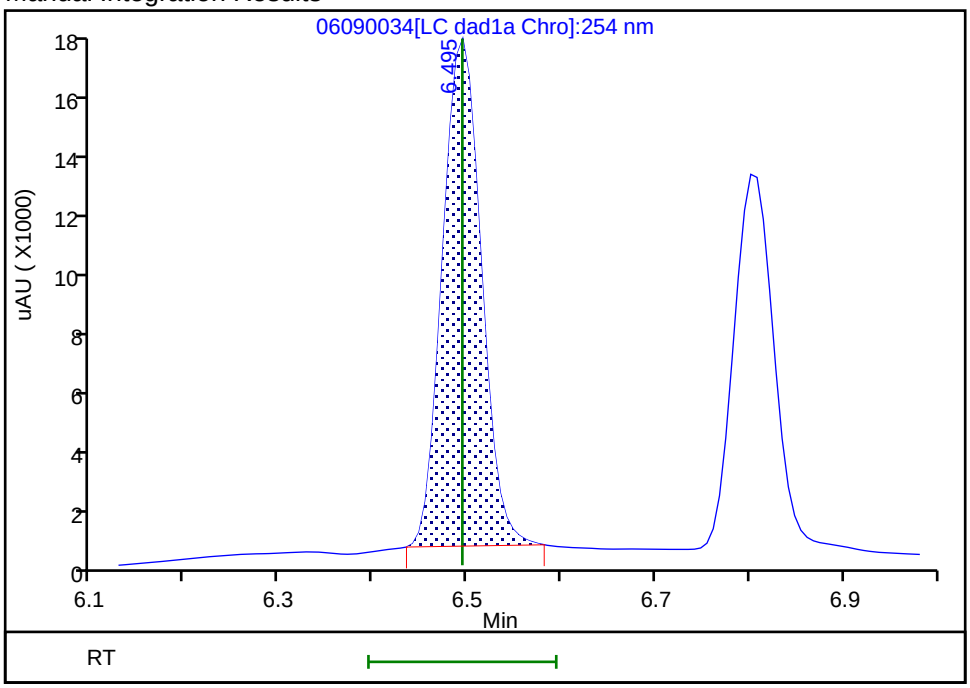
Processing Integration Results

RT: 6.49
Area: 64039
Amount: 0.344655
Amount Units: ug/mL



Manual Integration Results

RT: 6.49
Area: 46778
Amount: 0.251757
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 13:03:38

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

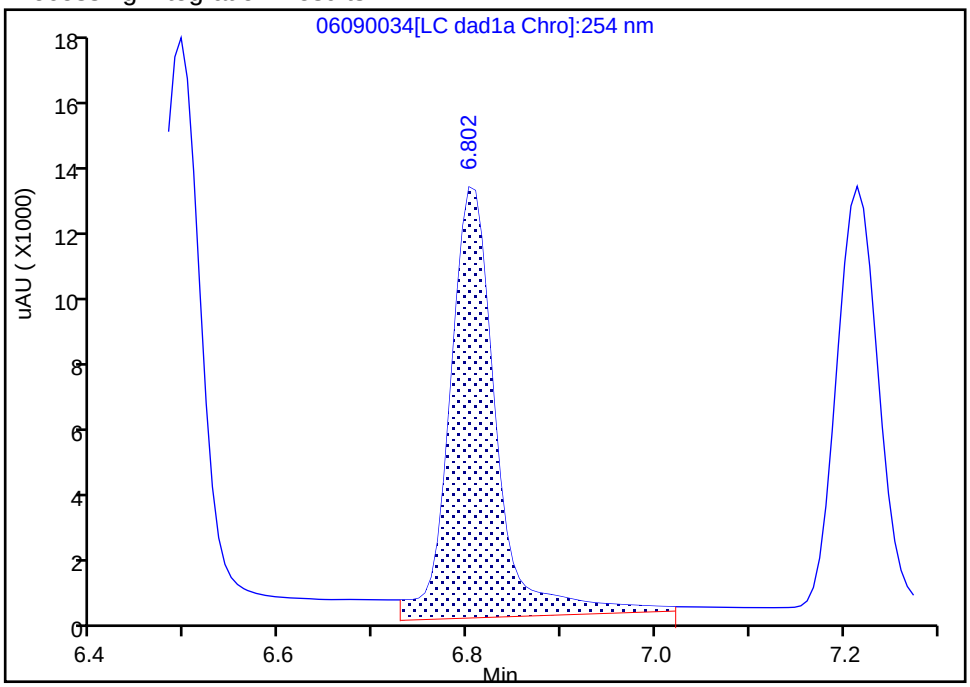
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090034.d				
Injection Date:	10-Jun-2021 01:13:19	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

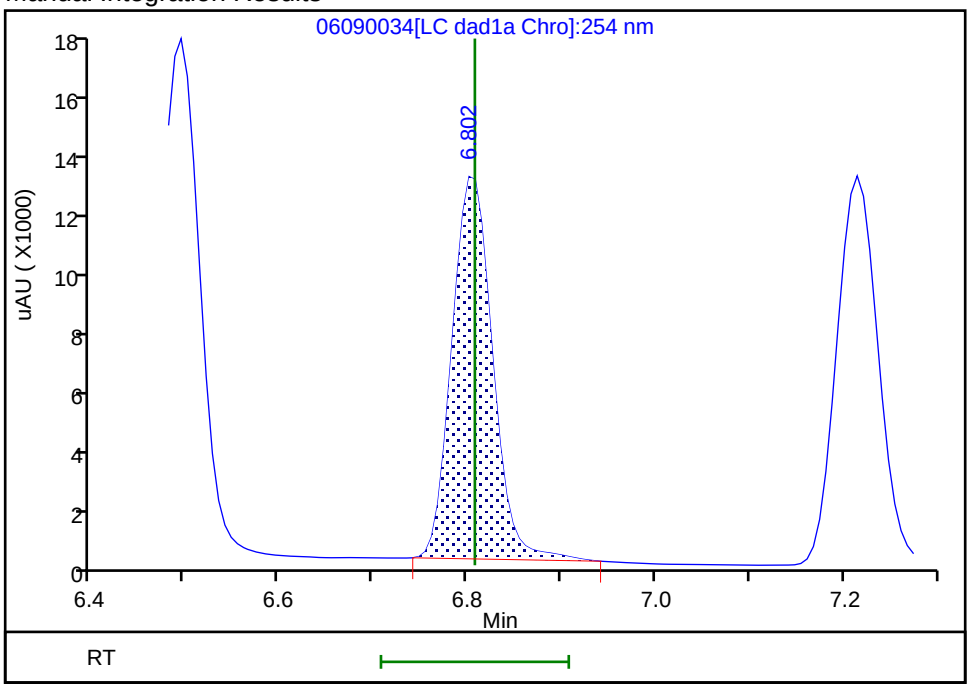
Processing Integration Results

RT: 6.80
Area: 43025
Amount: 0.302739
Amount Units: ug/mL



Manual Integration Results

RT: 6.80
Area: 36236
Amount: 0.254969
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 13:03:42
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539383/7 Calibration Date: 06/10/2021 16:01

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06100007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	84421	83908		248	250	-0.6	15.0
RDX	Ave	106261	101120		238	250	-4.8	15.0
Picric acid	Ave	82721	80220		242	250	-3.0	15.0
1,3,5-Trinitrobenzene	Ave	220317	220259		250	251	-0.0	15.0
1,3-Dinitrobenzene	Ave	296329	296104		250	251	-0.0	15.0
Nitrobenzene	Ave	195286	195837		252	251	0.3	15.0
Tetryl	Ave	172420	168076		244	251	-2.5	15.0
Nitroglycerin	Lin2		63715		2420	2500	-3.2	15.0
2,4,6-Trinitrotoluene	Ave	206038	203944		248	251	-1.0	15.0
4-Amino-2,6-dinitrotoluene	Ave	152768	146833		241	250	-3.9	15.0
2-Amino-4,6-dinitrotoluene	Ave	206926	203048		246	251	-1.9	15.0
2,6-Dinitrotoluene	Ave	143079	141510		248	251	-1.1	15.0
2,4-Dinitrotoluene	Ave	287012	286382		250	251	-0.2	15.0
2-Nitrotoluene	Ave	128392	126268		246	250	-1.7	15.0
4-Nitrotoluene	Ave	111913	108216		242	251	-3.3	15.0
3-Nitrotoluene	Ave	142246	138138		243	250	-2.9	15.0
PETN	Ave	74779	73510		2460	2500	-1.7	15.0
1,2-Dinitrobenzene	Ave	128217	132220		258	250	3.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539383/7 Calibration Date: 06/10/2021 16:01

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06100007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.59	7.44	7.74
Picric acid	7.95	7.80	8.10
1,3,5-Trinitrobenzene	8.65	8.50	8.80
1,3-Dinitrobenzene	9.27	9.12	9.42
Nitrobenzene	9.66	9.51	9.81
Tetryl	9.99	9.84	10.14
Nitroglycerin	10.45	10.30	10.60
2,4,6-Trinitrotoluene	10.91	10.81	11.01
4-Amino-2,6-dinitrotoluene	11.12	11.02	11.22
2-Amino-4,6-dinitrotoluene	11.38	11.28	11.48
2,6-Dinitrotoluene	11.55	11.45	11.65
2,4-Dinitrotoluene	11.72	11.62	11.82
2-Nitrotoluene	12.60	12.45	12.75
4-Nitrotoluene	13.04	12.89	13.19
3-Nitrotoluene	13.63	13.48	13.78
PETN	14.74	14.59	14.89
1,2-Dinitrobenzene	8.52	8.37	8.67

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\06100007.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 10-Jun-2021 16:01:16 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0102248-007
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 11-Jun-2021 12:34:15 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1619

First Level Reviewer: zhangji Date: 10-Jun-2021 16:31:25

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.612	6.612	0.000	20977	0.2500	0.2485	M
7 RDX	1	7.585	7.585	0.000	25280	0.2500	0.2379	
8 2,4,6-Trinitrophenol	1	7.945	7.945	0.000	20055	0.2500	0.2424	
$ 9 1,2-Dinitrobenzene	1	8.519	8.519	0.000	33055	0.2500	0.2578	
10 1,3,5-Trinitrobenzene	1	8.645	8.645	0.000	55175	0.2505	0.2504	
11 1,3-Dinitrobenzene	1	9.272	9.272	0.000	74174	0.2505	0.2503	
12 Nitrobenzene	1	9.659	9.659	0.000	49155	0.2510	0.2517	
14 Tetryl	1	9.985	9.985	0.000	42103	0.2505	0.2442	
15 Nitroglycerin	2	10.452	10.452	0.000	159288	2.50	2.42	
16 2,4,6-Trinitrotoluene	1	10.912	10.912	0.000	51190	0.2510	0.2484	
17 4-Amino-2,6-dinitrotoluene	1	11.119	11.119	0.000	36745	0.2503	0.2405	
18 2-Amino-4,6-dinitrotoluene	1	11.379	11.379	0.000	50965	0.2510	0.2463	
19 2,6-Dinitrotoluene	1	11.545	11.545	0.000	35519	0.2510	0.2482	
20 2,4-Dinitrotoluene	1	11.719	11.719	0.000	71882	0.2510	0.2504	
21 o-Nitrotoluene	1	12.599	12.599	0.000	31567	0.2500	0.2459	
22 p-Nitrotoluene	1	13.039	13.039	0.000	27108	0.2505	0.2422	
23 m-Nitrotoluene	1	13.625	13.625	0.000	34569	0.2503	0.2430	
24 PETN	2	14.739	14.739	0.000	183774	2.50	2.46	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

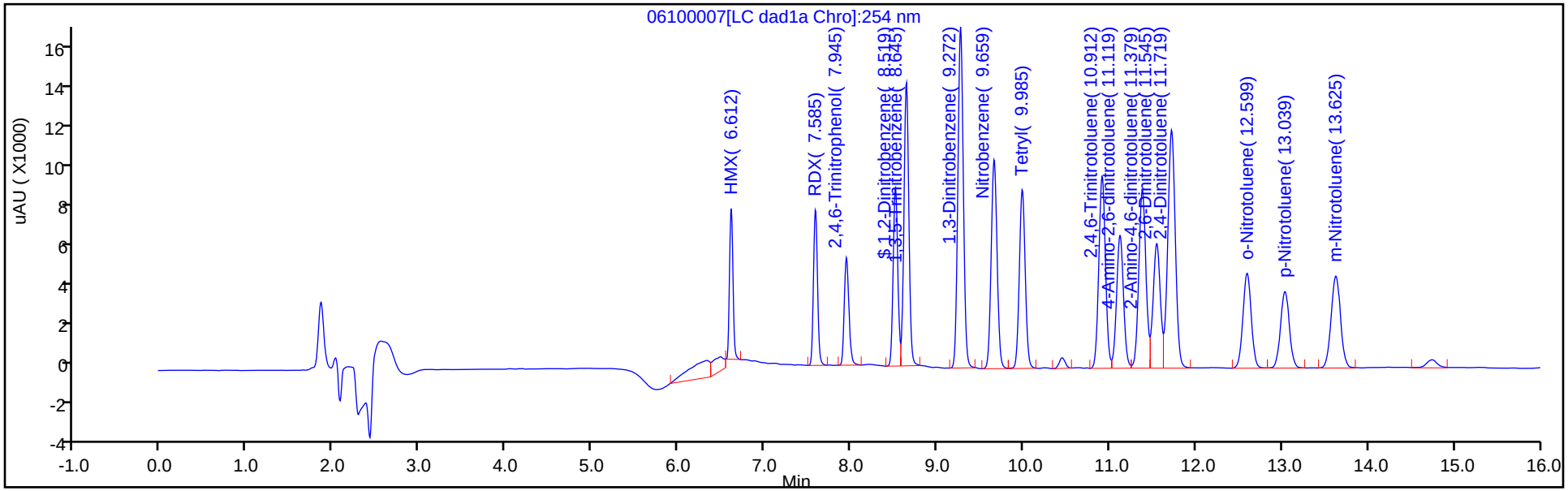
8330IntermStk_00068 Amount Added: 25.00 Units: uL

Report Date: 11-Jun-2021 12:34:15 Chrom Revision: 2.3 13-May-2021 07:57:40

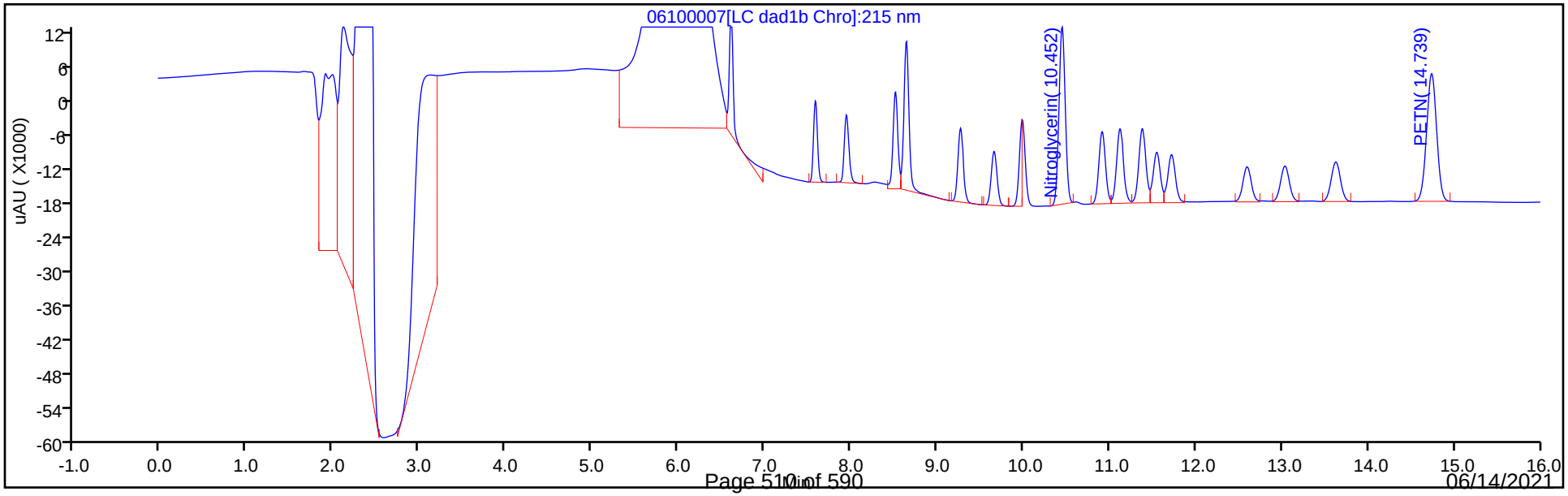
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100007.d				
Injection Date:	10-Jun-2021 16:01:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

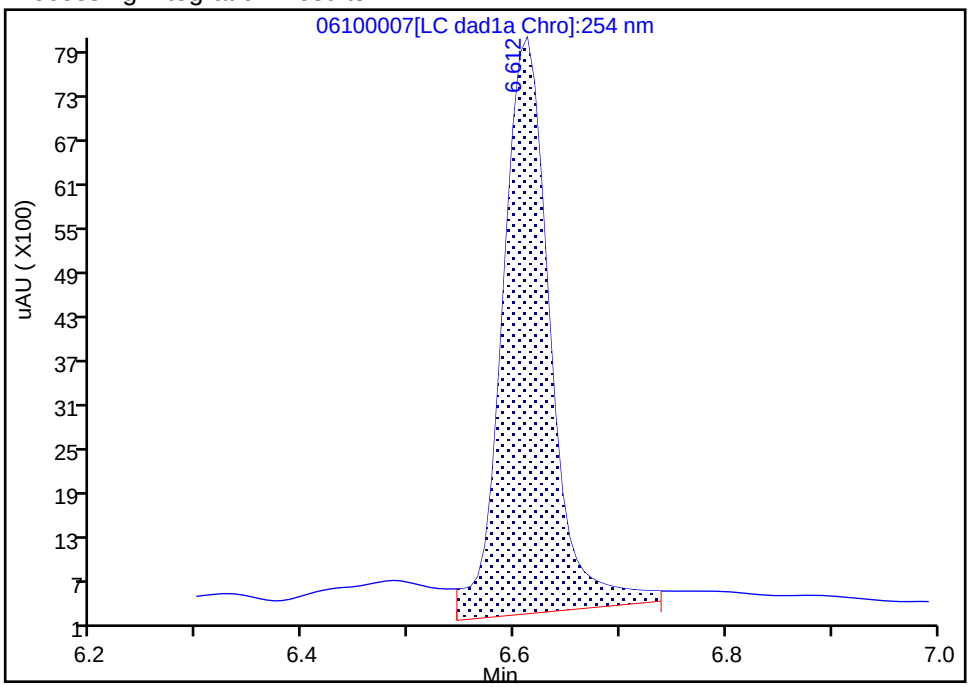
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100007.d				
Injection Date:	10-Jun-2021 16:01:16	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

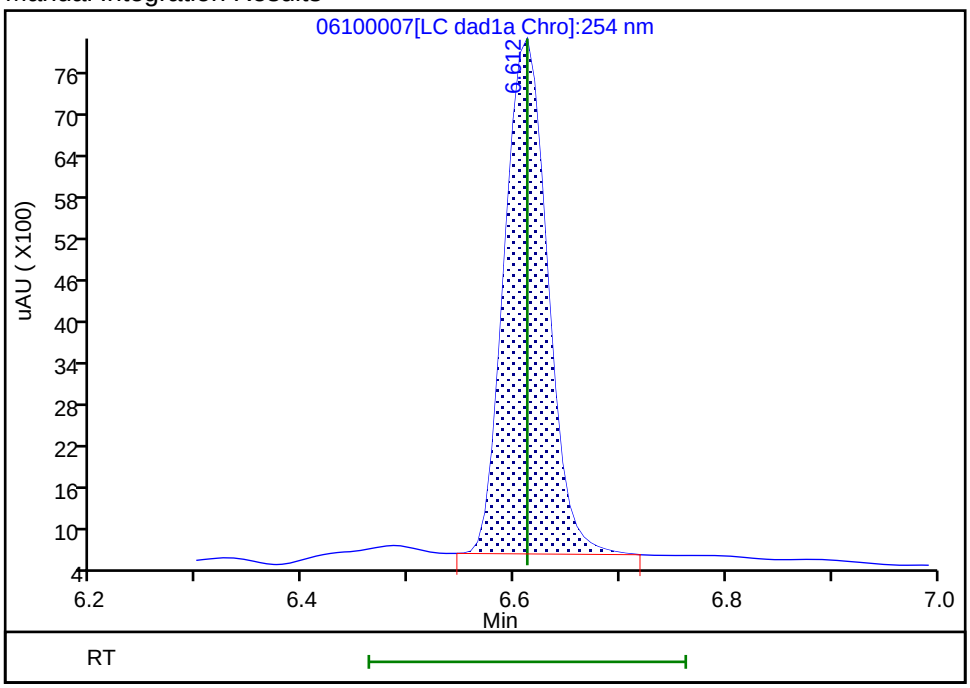
Processing Integration Results

RT: 6.61
Area: 24248
Amount: 0.287226
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 20977
Amount: 0.248480
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 16:31:22
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539383/13 Calibration Date: 06/10/2021 17:10

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06100013.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	84421	83488		247	250	-1.1	15.0
RDX	Ave	106261	100676		237	250	-5.3	15.0
Picric acid	Ave	82721	79636		241	250	-3.7	15.0
1,3,5-Trinitrobenzene	Ave	220317	220639		251	251	0.1	15.0
1,3-Dinitrobenzene	Ave	296329	296715		251	251	0.1	15.0
Nitrobenzene	Ave	195286	195008		251	251	-0.1	15.0
Tetryl	Ave	172420	167553		243	251	-2.8	15.0
Nitroglycerin	Lin2		63736		2420	2500	-3.2	15.0
2,4,6-Trinitrotoluene	Ave	206038	202757		247	251	-1.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	152768	146761		240	250	-3.9	15.0
2-Amino-4,6-dinitrotoluene	Ave	206926	200841		244	251	-2.9	15.0
2,6-Dinitrotoluene	Ave	143079	143920		252	251	0.6	15.0
2,4-Dinitrotoluene	Ave	287012	285956		250	251	-0.4	15.0
2-Nitrotoluene	Ave	128392	125568		245	250	-2.2	15.0
4-Nitrotoluene	Ave	111913	107717		241	251	-3.7	15.0
3-Nitrotoluene	Ave	142246	137878		243	250	-3.1	15.0
PETN	Ave	74779	73739		2470	2500	-1.4	15.0
1,2-Dinitrobenzene	Ave	128217	131712		257	250	2.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539383/13 Calibration Date: 06/10/2021 17:10

Instrument ID: CHHPLC_X3 Calib Start Date: 05/01/2021 18:01

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 05/01/2021 21:04

Lab File ID: 06100013.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.59	7.44	7.74
Picric acid	7.95	7.80	8.10
1,3,5-Trinitrobenzene	8.64	8.50	8.80
1,3-Dinitrobenzene	9.27	9.12	9.42
Nitrobenzene	9.66	9.51	9.81
Tetryl	9.98	9.84	10.14
Nitroglycerin	10.45	10.30	10.60
2,4,6-Trinitrotoluene	10.91	10.81	11.01
4-Amino-2,6-dinitrotoluene	11.12	11.02	11.22
2-Amino-4,6-dinitrotoluene	11.38	11.28	11.48
2,6-Dinitrotoluene	11.54	11.45	11.65
2,4-Dinitrotoluene	11.72	11.62	11.82
2-Nitrotoluene	12.59	12.45	12.75
4-Nitrotoluene	13.03	12.89	13.19
3-Nitrotoluene	13.62	13.48	13.78
PETN	14.73	14.59	14.89
1,2-Dinitrobenzene	8.52	8.37	8.67

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\06100013.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 10-Jun-2021 17:10:15 ALS Bottle#: 7 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0102248-013
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210610-102248.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 11-Jun-2021 12:34:17 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1619

First Level Reviewer: zhangji Date: 10-Jun-2021 18:22:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.608	6.612	-0.004	20872	0.2500	0.2472	M
7 RDX	1	7.588	7.585	0.003	25169	0.2500	0.2369	
8 2,4,6-Trinitrophenol	1	7.948	7.945	0.003	19909	0.2500	0.2407	
$ 9 1,2-Dinitrobenzene	1	8.515	8.519	-0.004	32928	0.2500	0.2568	
10 1,3,5-Trinitrobenzene	1	8.642	8.645	-0.003	55270	0.2505	0.2509	
11 1,3-Dinitrobenzene	1	9.268	9.272	-0.004	74327	0.2505	0.2508	
12 Nitrobenzene	1	9.662	9.659	0.003	48947	0.2510	0.2506	
14 Tetryl	1	9.982	9.985	-0.003	41972	0.2505	0.2434	
15 Nitroglycerin	2	10.448	10.452	-0.004	159341	2.50	2.42	
16 2,4,6-Trinitrotoluene	1	10.908	10.912	-0.004	50892	0.2510	0.2470	
17 4-Amino-2,6-dinitrotoluene	1	11.115	11.119	-0.004	36727	0.2503	0.2404	
18 2-Amino-4,6-dinitrotoluene	1	11.375	11.379	-0.004	50411	0.2510	0.2436	
19 2,6-Dinitrotoluene	1	11.542	11.545	-0.003	36124	0.2510	0.2525	
20 2,4-Dinitrotoluene	1	11.715	11.719	-0.004	71775	0.2510	0.2501	
21 o-Nitrotoluene	1	12.588	12.599	-0.011	31392	0.2500	0.2445	
22 p-Nitrotoluene	1	13.028	13.039	-0.011	26983	0.2505	0.2411	
23 m-Nitrotoluene	1	13.615	13.625	-0.010	34504	0.2503	0.2426	
24 PETN	2	14.728	14.739	-0.011	184348	2.50	2.47	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

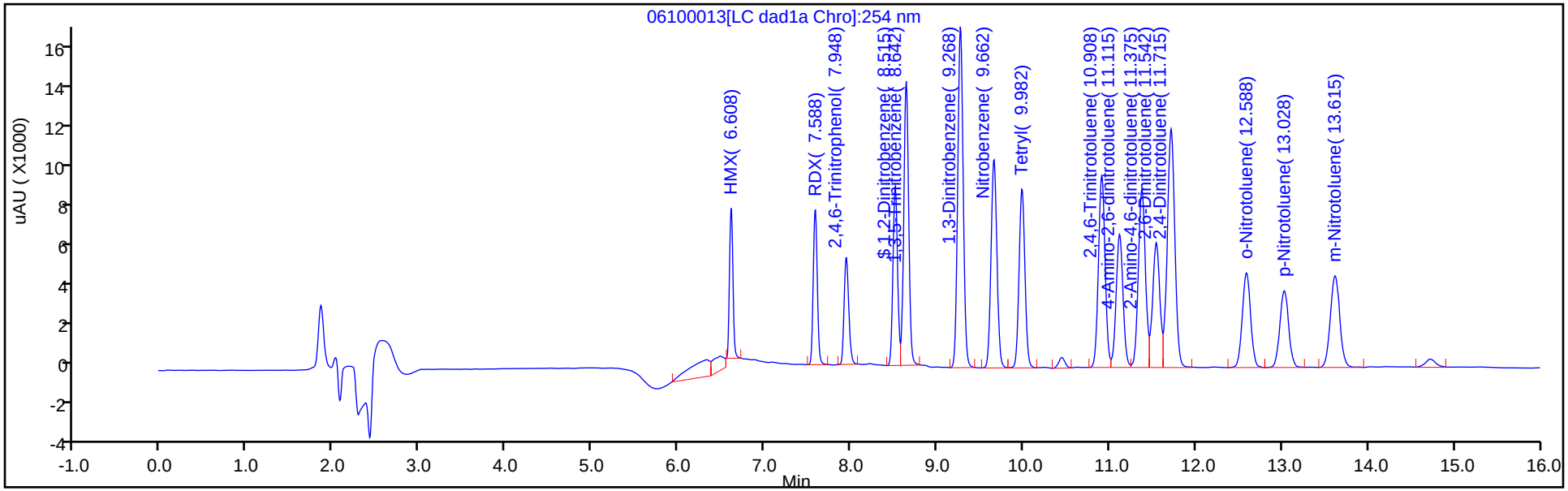
8330IntermStk_00068 Amount Added: 25.00 Units: uL

Report Date: 11-Jun-2021 12:34:17 Chrom Revision: 2.3 13-May-2021 07:57:40

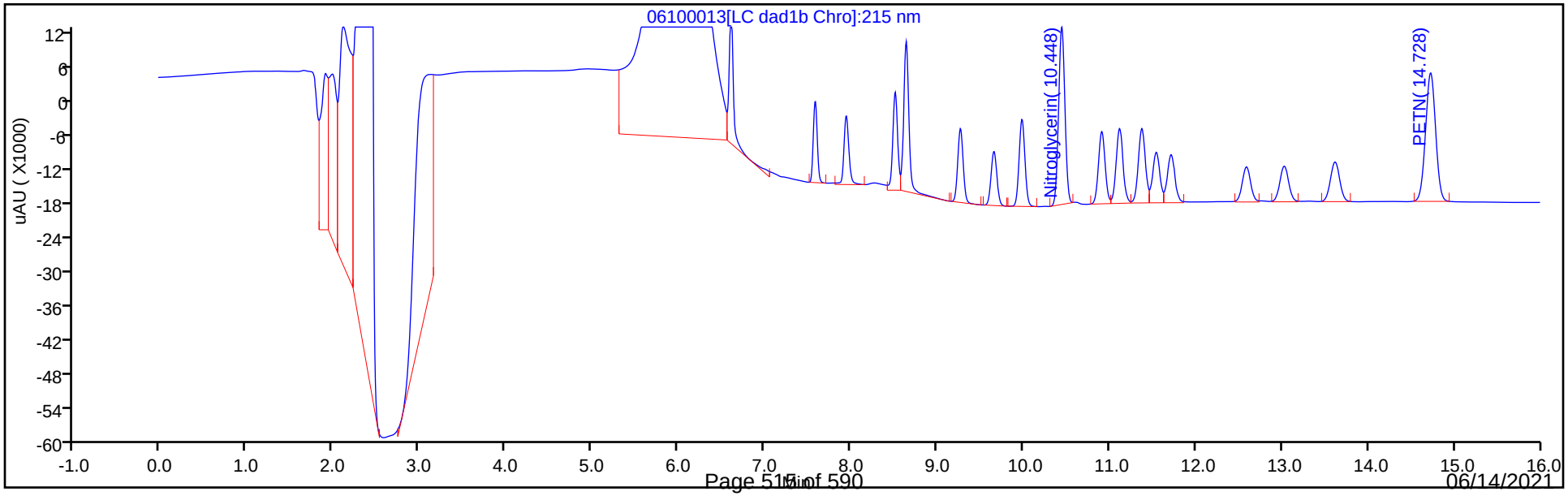
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100013.d				
Injection Date:	10-Jun-2021 17:10:15	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

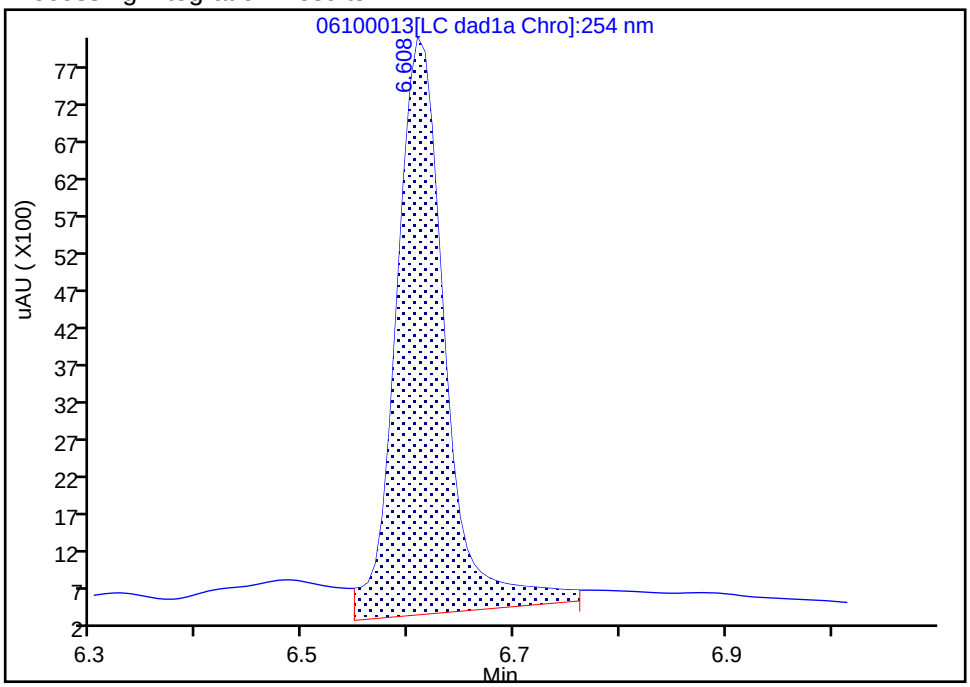
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210610-102248.b\06100013.d				
Injection Date:	10-Jun-2021 17:10:15	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

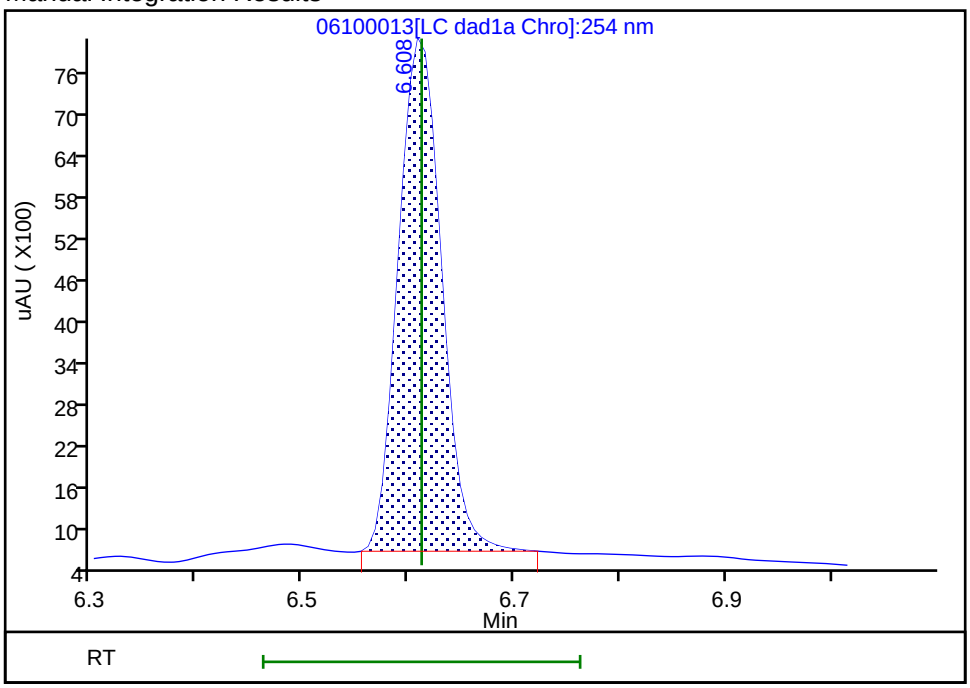
Processing Integration Results

RT: 6.61
Area: 24799
Amount: 0.293752
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 20872
Amount: 0.247236
Amount Units: ug/mL



Reviewer: zhangji, 10-Jun-2021 18:22:51
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: ICV 280-534620/19 Calibration Date: 05/02/2021 00:10

Instrument ID: CHHPLC_X5 Calib Start Date: 05/01/2021 18:54

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/01/2021 23:35

Lab File ID: 019-1401.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		153834		478	500	-4.3	15.0
Picric acid	Ave	159537	164682		516	500	3.2	15.0
RDX	Ave	204270	192088		470	500	-6.0	15.0
Nitrobenzene	Ave	374651	372074		497	500	-0.7	15.0
1,3-Dinitrobenzene	Lin2		568356		502	500	0.5	15.0
Nitroglycerin	Ave	128605	126748		4930	5000	-1.4	15.0
2-Nitrotoluene	Ave	248967	234824		472	500	-5.7	15.0
4-Nitrotoluene	Ave	217187	205250		473	500	-5.5	15.0
4-Amino-2,6-dinitrotoluene	Ave	296705	274856		463	500	-7.4	15.0
3-Nitrotoluene	Ave	278393	258506		464	500	-7.1	15.0
2-Amino-4,6-dinitrotoluene	Lin2		385846		492	500	-1.7	15.0
1,3,5-Trinitrobenzene	Lin2		419618		505	500	1.0	15.0
2,6-Dinitrotoluene	Lin2		264314		496	500	-0.8	15.0
2,4-Dinitrotoluene	Ave	565713	524186		463	500	-7.3	15.0
Tetryl	Lin2		317712		494	500	-1.2	15.0
2,4,6-Trinitrotoluene	Lin2		384566		513	500	2.6	15.0
PETN	Ave	137740	135365		4910	5000	-1.7	15.0
1,2-Dinitrobenzene	Ave	265659	258782		487	500	-2.6	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: ICV 280-534620/19 Calibration Date: 05/02/2021 00:10

Instrument ID: CHHPLC_X5 Calib Start Date: 05/01/2021 18:54

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/01/2021 23:35

Lab File ID: 019-1401.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.56	6.86
Picric acid	7.83	7.78	8.08
RDX	8.87	8.76	9.06
Nitrobenzene	11.93	11.82	12.12
1,3-Dinitrobenzene	15.49	15.37	15.67
Nitroglycerin	15.92	15.79	16.09
2-Nitrotoluene	16.73	16.61	16.91
4-Nitrotoluene	17.01	16.90	17.20
4-Amino-2,6-dinitrotoluene	17.49	17.38	17.68
3-Nitrotoluene	17.99	17.88	18.18
2-Amino-4,6-dinitrotoluene	18.40	18.28	18.58
1,3,5-Trinitrobenzene	18.92	18.79	19.09
2,6-Dinitrotoluene	20.18	20.05	20.35
2,4-Dinitrotoluene	20.65	20.52	20.82
Tetryl	24.31	24.16	24.46
2,4,6-Trinitrotoluene	25.28	25.13	25.43
PETN	26.19	26.04	26.34
1,2-Dinitrobenzene	13.06	12.94	13.24

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\019-1401.D
Lims ID: ICV INT/ADD
Client ID:
Sample Type: ICV
Inject. Date: 02-May-2021 00:10:18 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV INT/ADD
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 04-May-2021 13:45:38 Calib Date: 01-May-2021 23:35:08
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\018-1301.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1618

First Level Reviewer: zhangji Date: 04-May-2021 13:33:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.060	4.126	-0.066	216822	0.5000	0.5224	
2 2,4-diamino-6-nitrotoluene	1	4.647	4.653	-0.006	135044	0.5000	0.5598	
6 HMX	1	6.694	6.713	-0.019	76917	0.5000	0.4783	
5 2,4,6-Trinitrophenol	1	7.827	7.933	-0.106	82341	0.5000	0.5161	
8 RDX	1	8.874	8.906	-0.032	96044	0.5000	0.4702	
9 Nitrobenzene	1	11.934	11.973	-0.039	186037	0.5000	0.4966	
$ 10 1,2-Dinitrobenzene	1	13.060	13.093	-0.033	129391	0.5000	0.4871	
11 3,5-Dinitroaniline	1	14.947	14.979	-0.032	215841	0.5000	0.4774	
12 1,3-Dinitrobenzene	1	15.494	15.519	-0.025	284178	0.5000	0.5024	
13 Nitroglycerin	2	15.920	15.939	-0.019	633738	5.00	4.93	
14 o-Nitrotoluene	1	16.727	16.759	-0.032	117412	0.5000	0.4716	
15 p-Nitrotoluene	1	17.014	17.046	-0.032	102625	0.5000	0.4725	
16 4-Amino-2,6-dinitrotoluene	1	17.494	17.526	-0.032	137428	0.5000	0.4632	
17 m-Nitrotoluene	1	17.994	18.026	-0.032	129253	0.5000	0.4643	
18 2-Amino-4,6-dinitrotoluene	1	18.400	18.426	-0.026	192923	0.5000	0.4916	
19 1,3,5-Trinitrobenzene	1	18.920	18.939	-0.019	209809	0.5000	0.5052	
20 2,6-Dinitrotoluene	1	20.180	20.199	-0.019	132157	0.5000	0.4958	
21 2,4-Dinitrotoluene	1	20.647	20.666	-0.019	262093	0.5000	0.4633	
22 Tetryl	1	24.314	24.313	0.001	158856	0.5000	0.4941	
23 2,4,6-Trinitrotoluene	1	25.280	25.280	0.000	192283	0.5000	0.5131	
24 PETN	2	26.187	26.186	0.001	676826	5.00	4.91	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

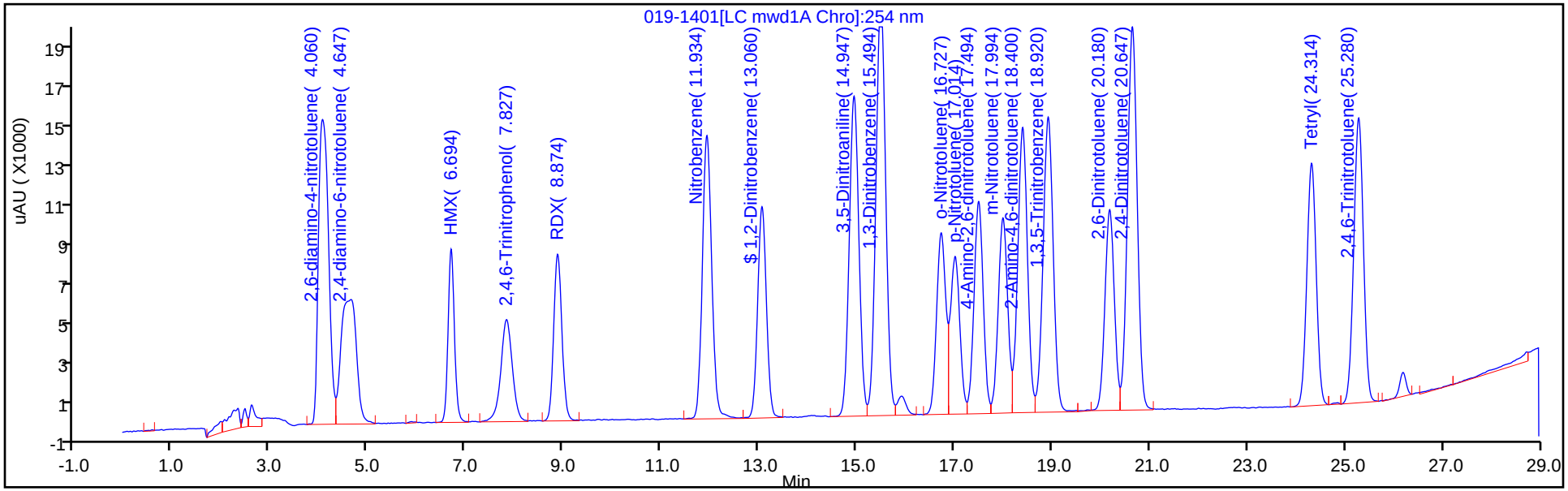
3,5-DNA LCS_00038	Amount Added: 50.00	Units: uL
8330 LCS_00108	Amount Added: 50.00	Units: uL
8330Surrogate_00124	Amount Added: 50.00	Units: uL
8330DiaminLCS_00039	Amount Added: 50.00	Units: uL

Report Date: 04-May-2021 13:45:44 Chrom Revision: 2.3 08-Apr-2021 17:17:48

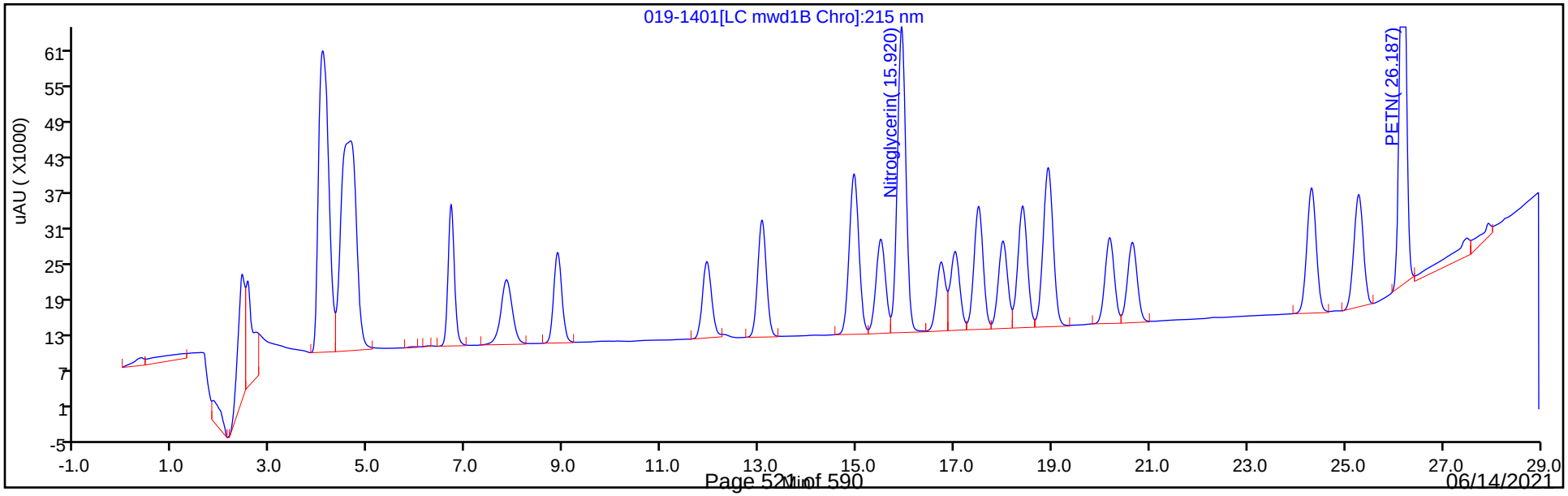
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\019-1401.D				
Injection Date:	02-May-2021 00:10:18	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	ICV INT/ADD			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

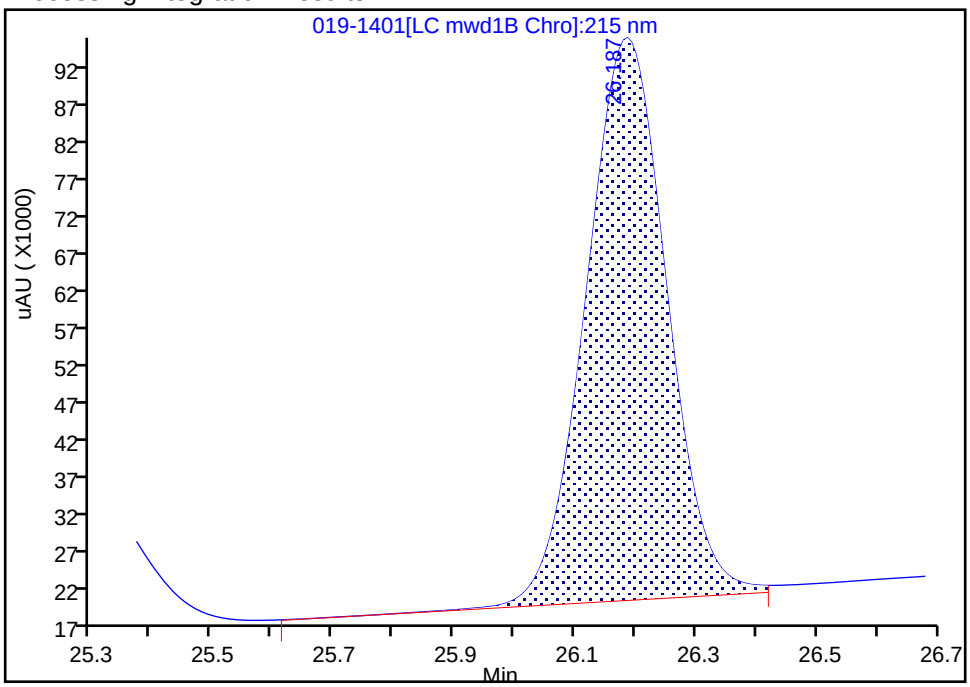
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\019-1401.D				
Injection Date:	02-May-2021 00:10:18	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT/ADD				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC mwd1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

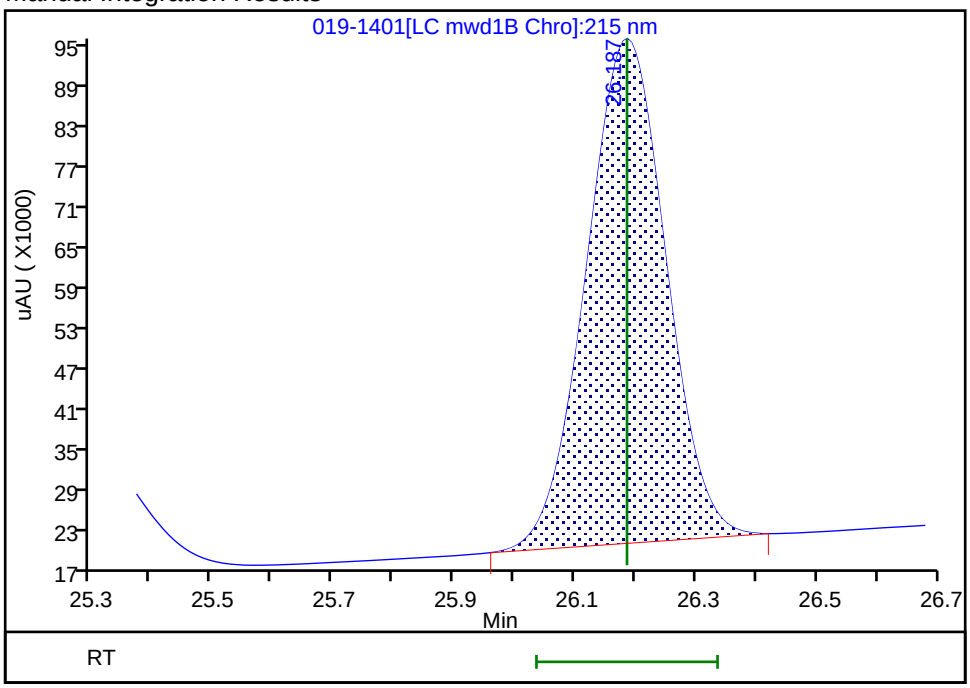
Processing Integration Results

RT: 26.19
Area: 693830
Amount: 5.037230
Amount Units: ug/ml



Manual Integration Results

RT: 26.19
Area: 676826
Amount: 4.913780
Amount Units: ug/ml



Reviewer: zhangji, 04-May-2021 13:43:01

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539386/11 Calibration Date: 06/10/2021 19:02

Instrument ID: CHHPLC_X5 Calib Start Date: 05/01/2021 18:54

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/01/2021 23:35

Lab File ID: 007-0901.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		160308		246	250	-1.5	15.0
Picric acid	Ave	159537	158056		248	250	-0.9	15.0
RDX	Ave	204270	197120		241	250	-3.5	15.0
Nitrobenzene	Ave	374651	368315		247	251	-1.7	15.0
1,3-Dinitrobenzene	Lin2		572192		252	251	0.7	15.0
Nitroglycerin	Ave	128605	127041		2470	2500	-1.2	15.0
2-Nitrotoluene	Ave	248967	242540		244	250	-2.6	15.0
4-Nitrotoluene	Ave	217187	206671		238	251	-4.8	15.0
4-Amino-2,6-dinitrotoluene	Ave	296705	279449		236	250	-5.8	15.0
3-Nitrotoluene	Ave	278393	262913		236	250	-5.6	15.0
2-Amino-4,6-dinitrotoluene	Lin2		394462		251	251	-0.1	15.0
1,3,5-Trinitrobenzene	Lin2		446084		266	251	6.1	15.0
2,6-Dinitrotoluene	Lin2		270761		253	251	0.9	15.0
2,4-Dinitrotoluene	Ave	565713	545837		242	251	-3.5	15.0
Tetryl	Lin2		317222		244	251	-2.5	15.0
2,4,6-Trinitrotoluene	Lin2		381912		254	251	1.1	15.0
PETN	Ave	137740	139878		2540	2500	1.6	15.0
1,2-Dinitrobenzene	Ave	265659	257652		242	250	-3.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539386/11 Calibration Date: 06/10/2021 19:02

Instrument ID: CHHPLC_X5 Calib Start Date: 05/01/2021 18:54

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/01/2021 23:35

Lab File ID: 007-0901.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.65	6.50	6.80
Picric acid	7.93	7.84	8.14
RDX	8.82	8.66	8.96
Nitrobenzene	11.86	11.71	12.01
1,3-Dinitrobenzene	15.38	15.22	15.52
Nitroglycerin	15.79	15.62	15.92
2-Nitrotoluene	16.61	16.45	16.75
4-Nitrotoluene	16.90	16.74	17.04
4-Amino-2,6-dinitrotoluene	17.36	17.20	17.50
3-Nitrotoluene	17.87	17.71	18.01
2-Amino-4,6-dinitrotoluene	18.26	18.10	18.40
1,3,5-Trinitrobenzene	18.78	18.62	18.92
2,6-Dinitrotoluene	20.03	19.86	20.16
2,4-Dinitrotoluene	20.49	20.34	20.64
Tetryl	24.10	23.96	24.26
2,4,6-Trinitrotoluene	25.08	24.94	25.24
PETN	26.02	25.89	26.19
1,2-Dinitrobenzene	12.96	12.80	13.10

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\007-0901.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Jun-2021 19:02:37 ALS Bottle#: 7 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0102249-011
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 19:39:39 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1633

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.104	4.099	0.005	98048	0.2500	0.2310	
2 2,4-diamino-6-nitrotoluene	1	4.617	4.613	0.004	58433	0.2500	0.2392	
6 HMX	1	6.651	6.646	0.005	40077	0.2500	0.2462	
5 2,4,6-Trinitrophenol	1	7.931	7.986	-0.055	39514	0.2500	0.2477	
8 RDX	1	8.817	8.813	0.004	49280	0.2500	0.2412	
9 Nitrobenzene	1	11.864	11.859	0.005	92447	0.2510	0.2468	
$ 10 1,2-Dinitrobenzene	1	12.964	12.952	0.012	64413	0.2500	0.2425	
11 3,5-Dinitroaniline	1	14.830	14.819	0.011	107054	0.2500	0.2357	
12 1,3-Dinitrobenzene	1	15.384	15.372	0.012	143334	0.2505	0.2522	
13 Nitroglycerin	2	15.790	15.772	0.018	317602	2.50	2.47	
14 o-Nitrotoluene	1	16.610	16.599	0.011	60635	0.2500	0.2435	
15 p-Nitrotoluene	1	16.897	16.886	0.011	51771	0.2505	0.2384	
16 4-Amino-2,6-dinitrotoluene	1	17.357	17.346	0.011	69932	0.2503	0.2357	
17 m-Nitrotoluene	1	17.870	17.859	0.011	65794	0.2503	0.2363	
18 2-Amino-4,6-dinitrotoluene	1	18.257	18.246	0.011	99010	0.2510	0.2508	
19 1,3,5-Trinitrobenzene	1	18.784	18.772	0.012	111744	0.2505	0.2658	
20 2,6-Dinitrotoluene	1	20.030	20.012	0.018	67961	0.2510	0.2534	
21 2,4-Dinitrotoluene	1	20.491	20.486	0.004	137005	0.2510	0.2422	
22 Tetryl	1	24.104	24.113	-0.009	79464	0.2505	0.2442	
23 2,4,6-Trinitrotoluene	1	25.077	25.093	-0.016	95860	0.2510	0.2537	
24 PETN	2	26.024	26.039	-0.015	349695	2.50	2.54	

Reagents:

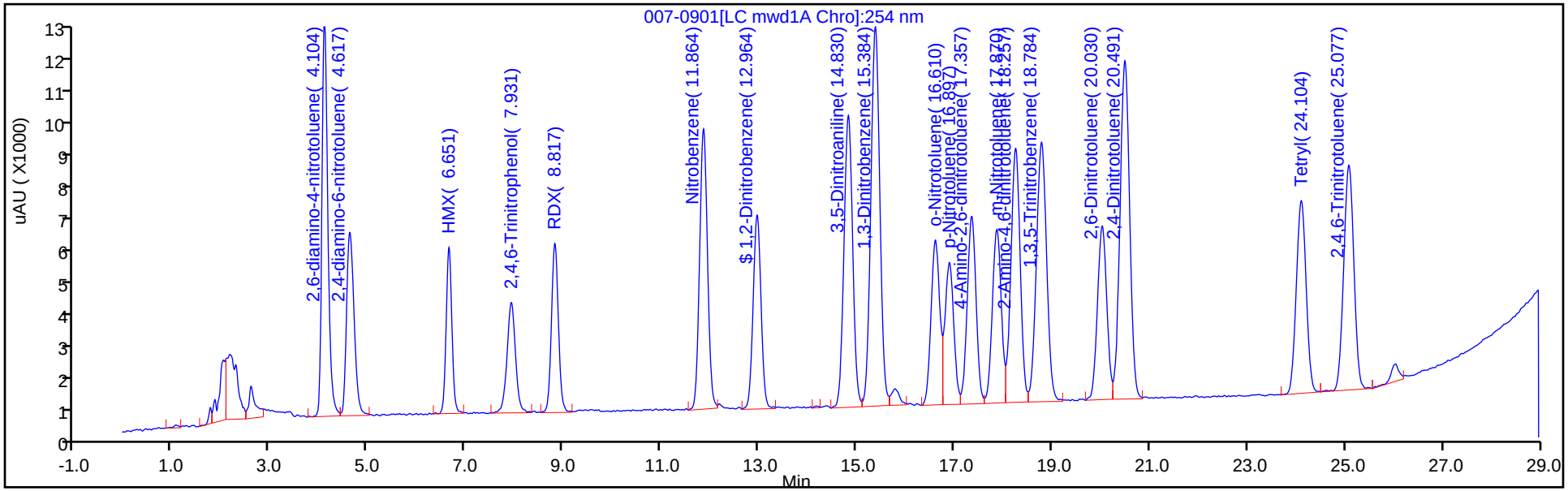
8330IntermStk_00068 Amount Added: 25.00 Units: uL
8330_ADDs_00029 Amount Added: 12.50 Units: uL

Report Date: 10-Jun-2021 19:39:39 Chrom Revision: 2.3 13-May-2021 07:57:40

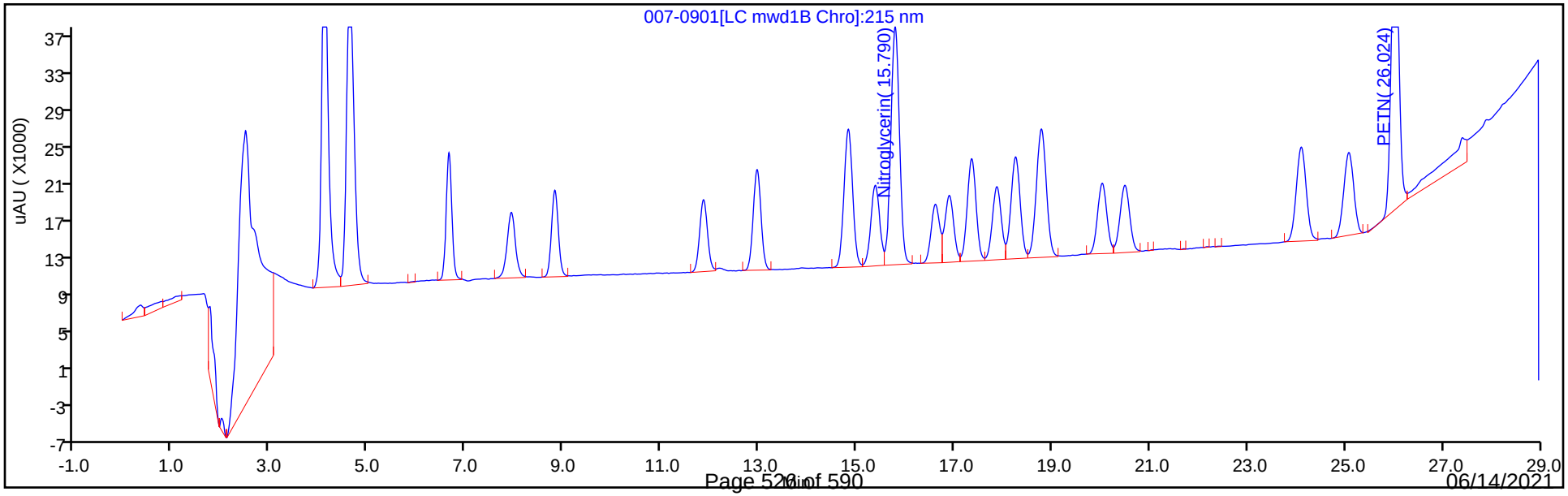
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\007-0901.D				
Injection Date:	10-Jun-2021 19:02:37	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539386/21 Calibration Date: 06/11/2021 00:52

Instrument ID: CHHPLC_X5 Calib Start Date: 05/01/2021 18:54

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/01/2021 23:35

Lab File ID: 06100021.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		164356		253	250	1.0	15.0
Picric acid	Ave	159537	154132		242	250	-3.4	15.0
RDX	Ave	204270	197552		242	250	-3.3	15.0
Nitrobenzene	Ave	374651	367757		246	251	-1.8	15.0
1,3-Dinitrobenzene	Lin2		584164		257	251	2.8	15.0
Nitroglycerin	Ave	128605	126990		2470	2500	-1.3	15.0
2-Nitrotoluene	Ave	248967	234908		236	250	-5.6	15.0
4-Nitrotoluene	Ave	217187	204228		236	251	-6.0	15.0
4-Amino-2,6-dinitrotoluene	Ave	296705	278985		235	250	-6.0	15.0
3-Nitrotoluene	Ave	278393	257910		232	250	-7.4	15.0
2-Amino-4,6-dinitrotoluene	Lin2		393940		250	251	-0.2	15.0
1,3,5-Trinitrobenzene	Lin2		446367		266	251	6.2	15.0
2,6-Dinitrotoluene	Lin2		270426		253	251	0.8	15.0
2,4-Dinitrotoluene	Ave	565713	547761		243	251	-3.2	15.0
Tetryl	Lin2		320754		247	251	-1.4	15.0
2,4,6-Trinitrotoluene	Lin2		384072		255	251	1.7	15.0
PETN	Ave	137740	139322		2530	2500	1.1	15.0
1,2-Dinitrobenzene	Ave	265659	258144		243	250	-2.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Lab Sample ID: CCV 280-539386/21 Calibration Date: 06/11/2021 00:52

Instrument ID: CHHPLC_X5 Calib Start Date: 05/01/2021 18:54

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/01/2021 23:35

Lab File ID: 06100021.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.62	6.50	6.80
Picric acid	7.83	7.84	8.14
RDX	8.79	8.66	8.96
Nitrobenzene	11.82	11.71	12.01
1,3-Dinitrobenzene	15.34	15.22	15.52
Nitroglycerin	15.73	15.62	15.92
2-Nitrotoluene	16.56	16.45	16.75
4-Nitrotoluene	16.84	16.74	17.04
4-Amino-2,6-dinitrotoluene	17.30	17.20	17.50
3-Nitrotoluene	17.81	17.71	18.01
2-Amino-4,6-dinitrotoluene	18.19	18.10	18.40
1,3,5-Trinitrobenzene	18.73	18.62	18.92
2,6-Dinitrotoluene	19.96	19.86	20.16
2,4-Dinitrotoluene	20.43	20.34	20.64
Tetryl	24.03	23.96	24.26
2,4,6-Trinitrotoluene	25.01	24.94	25.24
PETN	25.95	25.89	26.19
1,2-Dinitrobenzene	12.92	12.80	13.10

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100021.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 11-Jun-2021 00:52:33 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0102249-021
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub1

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 11-Jun-2021 12:42:16 Calib Date: 02-May-2021 04:51:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20210501-101093.b\027-2201.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1619

First Level Reviewer: zhangji Date: 11-Jun-2021 12:38:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.083	4.099	-0.016	97596	0.2500	0.2299	
2 2,4-diamino-6-nitrotoluene	1	4.596	4.613	-0.017	58941	0.2500	0.2413	
6 HMX	1	6.623	6.646	-0.023	41089	0.2500	0.2526	
5 2,4,6-Trinitrophenol	1	7.829	7.986	-0.157	38533	0.2500	0.2415	a
8 RDX	1	8.789	8.813	-0.024	49388	0.2500	0.2418	
9 Nitrobenzene	1	11.823	11.859	-0.036	92307	0.2510	0.2464	
$ 10 1,2-Dinitrobenzene	1	12.916	12.952	-0.036	64536	0.2500	0.2429	
11 3,5-Dinitroaniline	1	14.783	14.819	-0.036	105934	0.2500	0.2332	
12 1,3-Dinitrobenzene	1	15.336	15.372	-0.036	146333	0.2505	0.2575	
13 Nitroglycerin	2	15.729	15.772	-0.043	317474	2.50	2.47	
14 o-Nitrotoluene	1	16.556	16.599	-0.043	58727	0.2500	0.2359	
15 p-Nitrotoluene	1	16.843	16.886	-0.043	51159	0.2505	0.2356	
16 4-Amino-2,6-dinitrotoluene	1	17.296	17.346	-0.050	69816	0.2503	0.2353	
17 m-Nitrotoluene	1	17.809	17.859	-0.050	64542	0.2503	0.2318	
18 2-Amino-4,6-dinitrotoluene	1	18.189	18.246	-0.057	98879	0.2510	0.2504	
19 1,3,5-Trinitrobenzene	1	18.729	18.772	-0.043	111815	0.2505	0.2659	
20 2,6-Dinitrotoluene	1	19.963	20.012	-0.049	67877	0.2510	0.2531	
21 2,4-Dinitrotoluene	1	20.429	20.486	-0.057	137488	0.2510	0.2430	
22 Tetryl	1	24.029	24.113	-0.084	80349	0.2505	0.2470	
23 2,4,6-Trinitrotoluene	1	25.009	25.093	-0.084	96402	0.2510	0.2551	
24 PETN	2	25.949	26.039	-0.090	348306	2.50	2.53	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

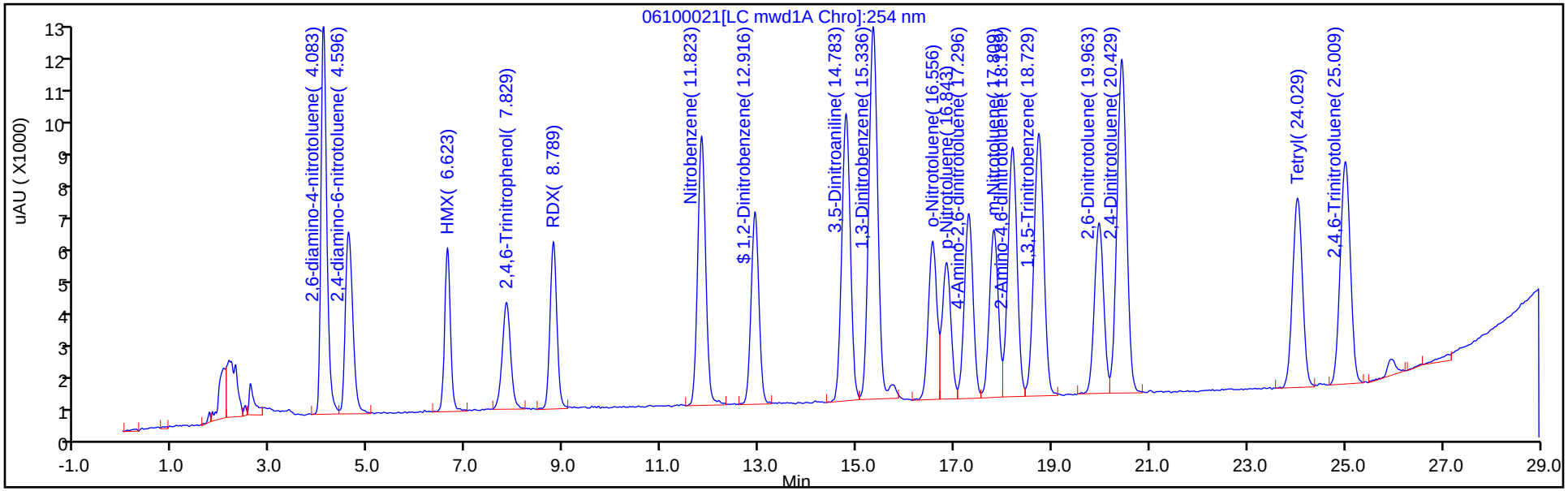
8330IntermStk_00068	Amount Added: 25.00	Units: uL
8330_ADDs_00029	Amount Added: 12.50	Units: uL

Report Date: 11-Jun-2021 12:42:16 Chrom Revision: 2.3 13-May-2021 07:57:40

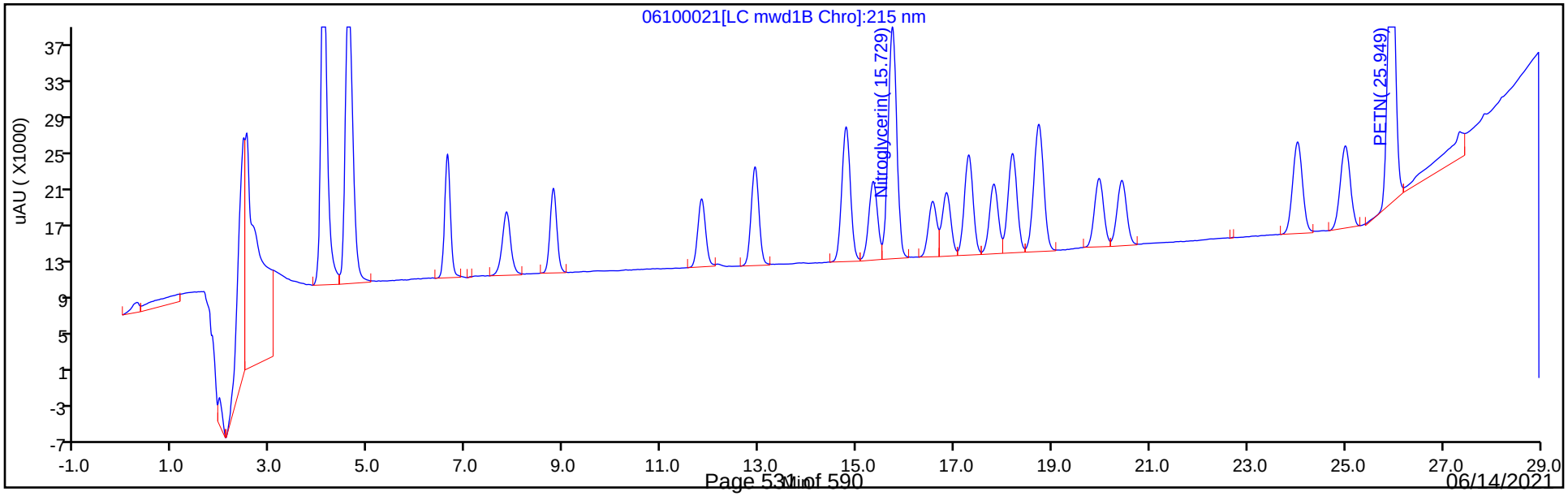
Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100021.D				
Injection Date:	11-Jun-2021 00:52:33	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

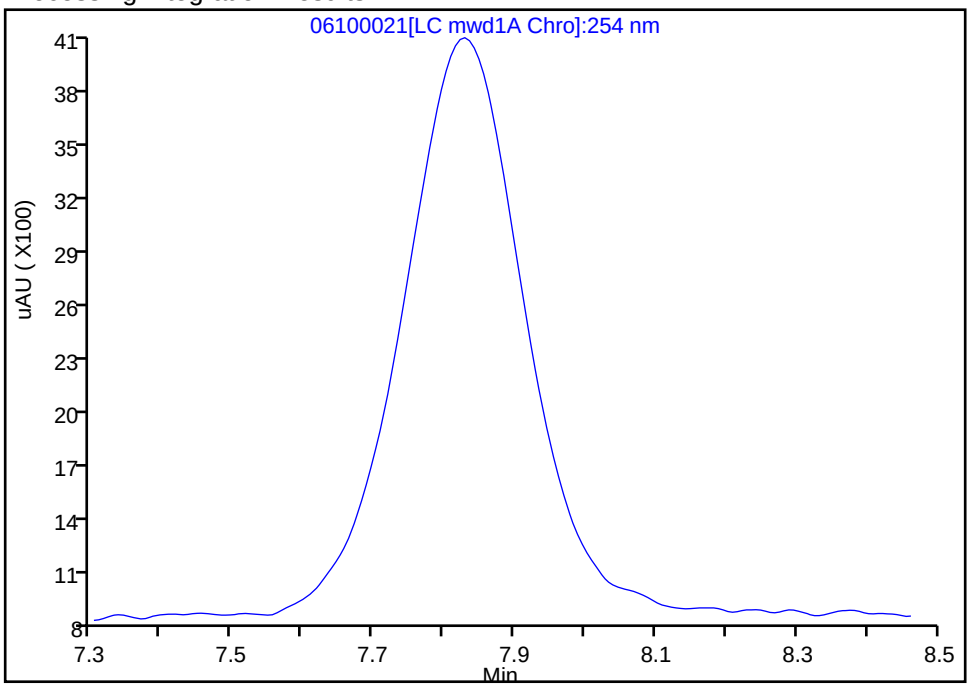
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20210610-102249.b\06100021.D				
Injection Date:	11-Jun-2021 00:52:33	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

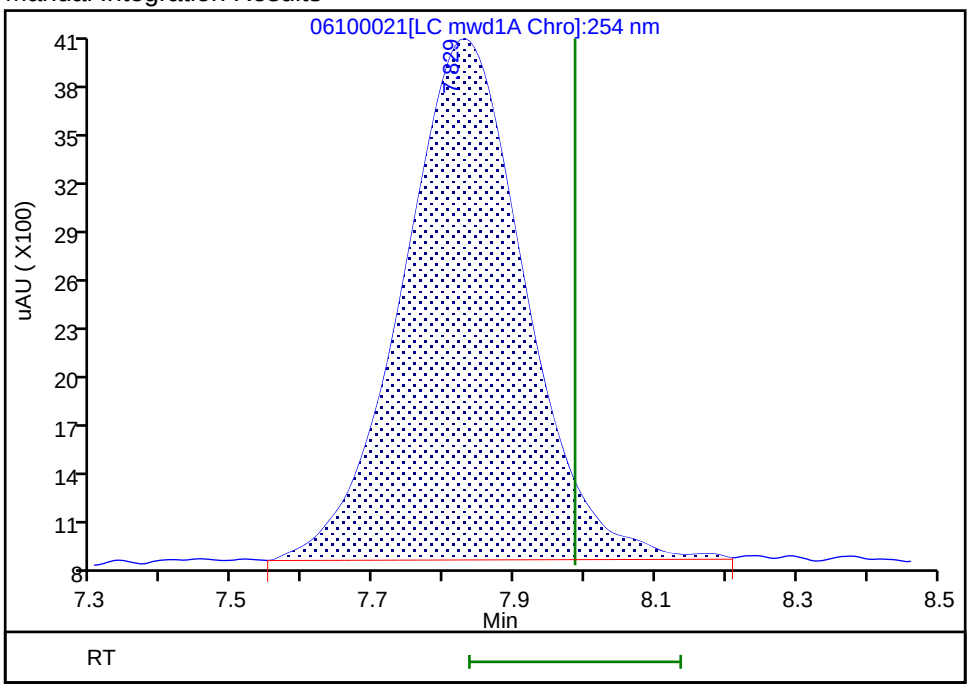
Not Detected
Expected RT: 7.99

Processing Integration Results



Manual Integration Results

RT: 7.83
Area: 38533
Amount: 0.241531
Amount Units: ug/ml



Reviewer: zhangji, 11-Jun-2021 12:38:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-539020/1-A
Matrix: Water
Lab File ID: 06090011.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 500(mL)
Date Analyzed: 06/09/2021 16:24
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	0.40	U	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
5755-27-1	MNX	0.40	U M	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	94	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090011.D
Lims ID: MB 280-539020/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Jun-2021 16:24:56 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-539020/1-
Misc. Info.: 280-0102208-011
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:01 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 09-Jun-2021 16:54:24

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
26 Triamine Trinitrobenzene	1		2.474				ND	
1 2,6-diamino-4-nitrotoluene	1		6.490				ND	
2 TNX	1		6.494				ND	U
3 HMX	1		6.611				ND	
4 2,4-diamino-6-nitrotoluene	1		6.663				ND	
5 DNX	1		6.808				ND	
6 MNX	1	7.220	7.214	0.006	766		0.005877	M
7 RDX	1		7.584				ND	
8 2,4,6-Trinitrophenol	1		7.944				ND	
$ 9 1,2-Dinitrobenzene	1	8.507	8.511	-0.004	23996	0.2000	0.1872	M
10 1,3,5-Trinitrobenzene	1		8.637				ND	
11 1,3-Dinitrobenzene	1		9.264				ND	
12 Nitrobenzene	1		9.651				ND	
13 3,5-Dinitroaniline	1		9.863				ND	
14 Tetryl	1		9.977				ND	
15 Nitroglycerin	2		10.437				ND	
16 2,4,6-Trinitrotoluene	1		10.897				ND	
17 4-Amino-2,6-dinitrotoluene	1		11.104				ND	
18 2-Amino-4,6-dinitrotoluene	1		11.364				ND	
19 2,6-Dinitrotoluene	1		11.531				ND	
20 2,4-Dinitrotoluene	1		11.704				ND	
21 o-Nitrotoluene	1		12.571				ND	
22 p-Nitrotoluene	1		13.011				ND	
23 m-Nitrotoluene	1		13.597				ND	
24 PETN	2		14.697				ND	
25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

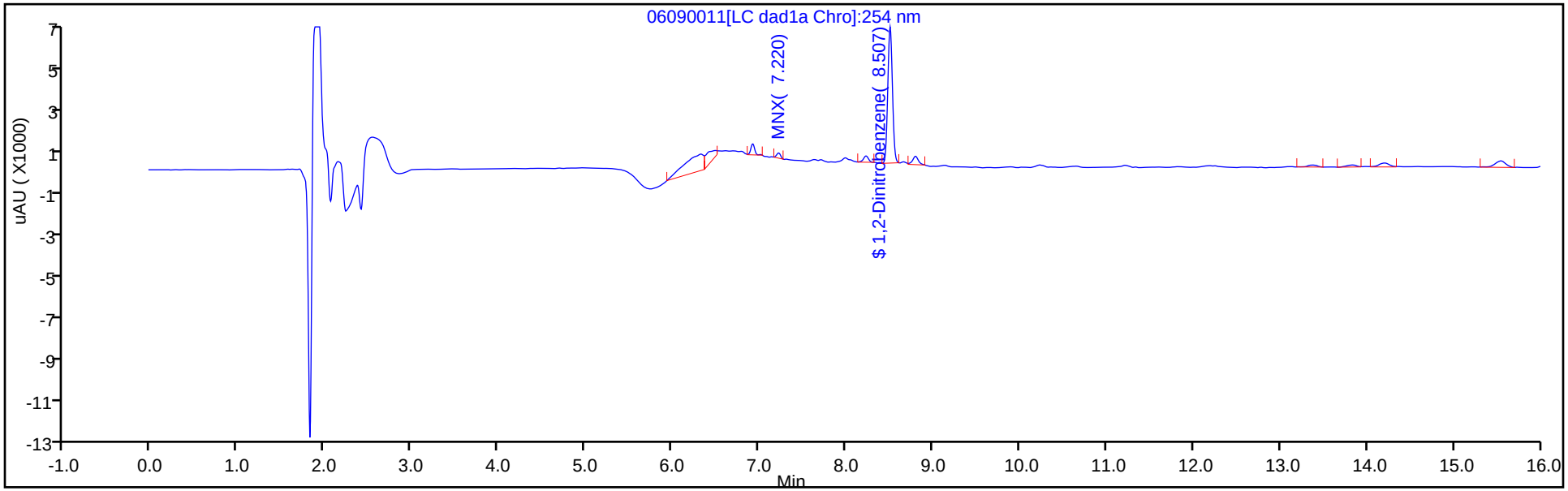
U - Marked Undetected

Report Date: 10-Jun-2021 13:30:01 Chrom Revision: 2.3 13-May-2021 07:57:40

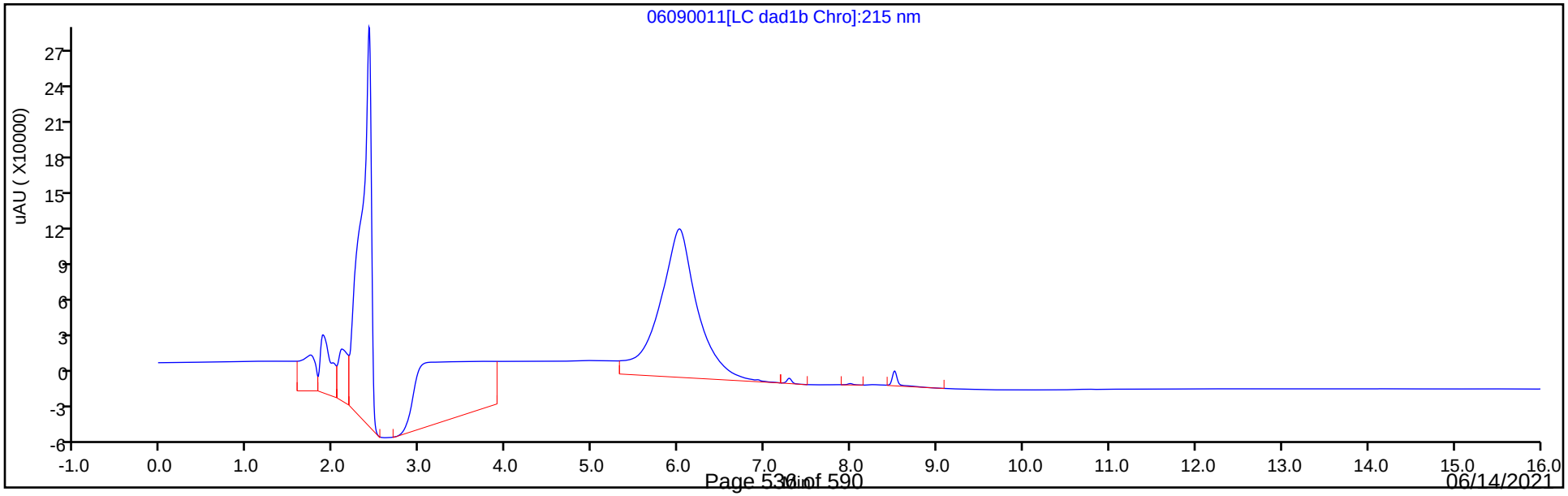
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090011.d				
Injection Date:	09-Jun-2021 16:24:56	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-539020/1-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090011.D				
Lims ID:	MB 280-539020/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	09-Jun-2021 16:24:56	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-539020/1-				
Misc. Info.:	280-0102208-011				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 16:54:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1872	93.58

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

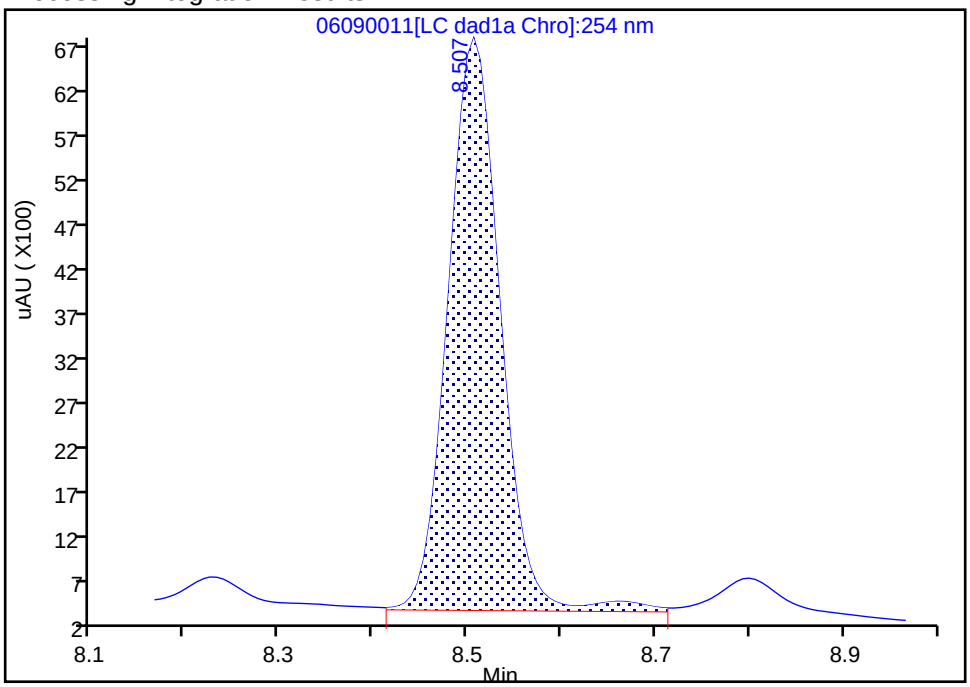
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090011.d				
Injection Date:	09-Jun-2021 16:24:56	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-539020/1-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

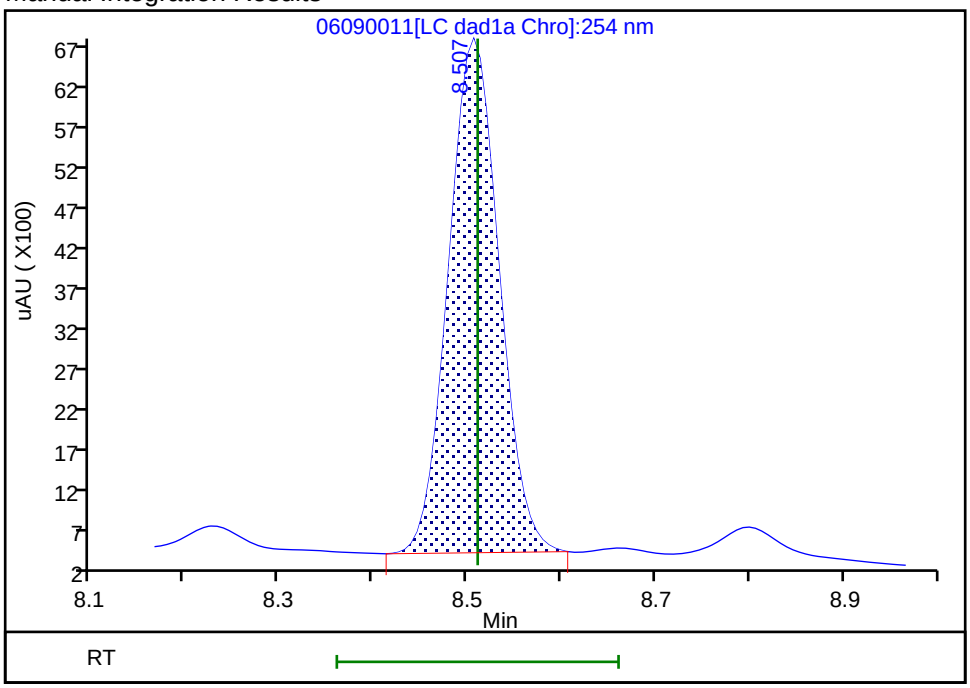
Processing Integration Results

RT: 8.51
Area: 25045
Amount: 0.195333
Amount Units: ug/mL



Manual Integration Results

RT: 8.51
Area: 23996
Amount: 0.187151
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 16:54:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

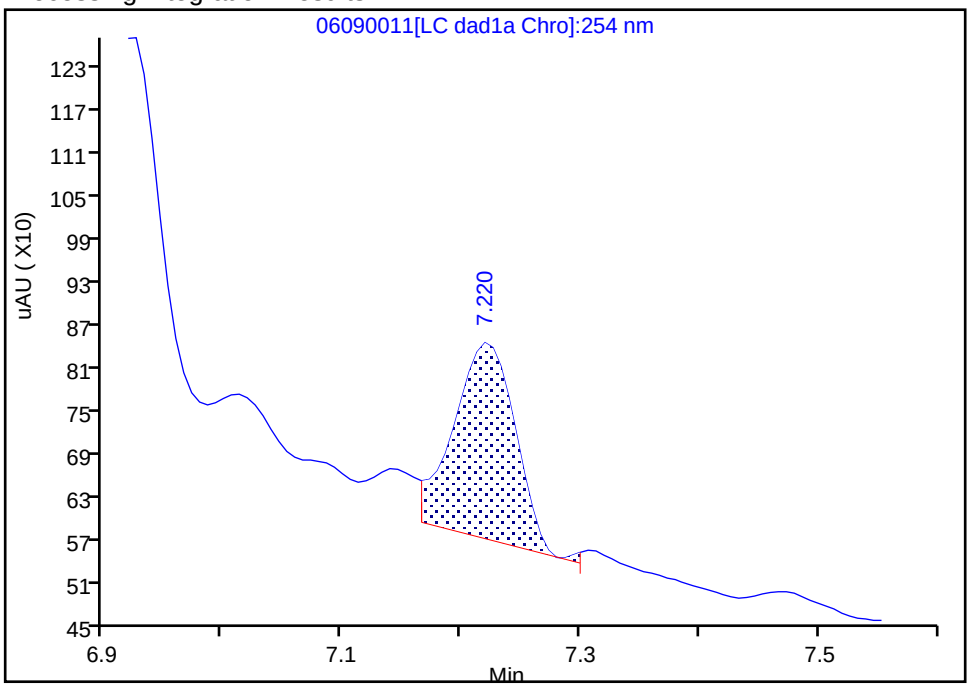
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090011.d				
Injection Date:	09-Jun-2021 16:24:56	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-539020/1-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

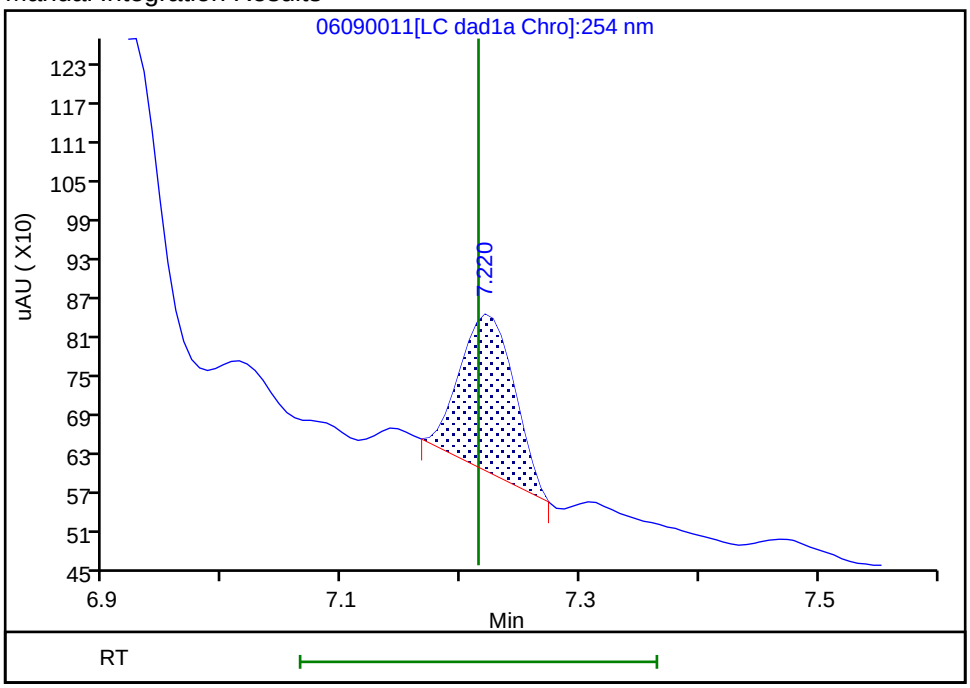
Processing Integration Results

RT: 7.22
Area: 980
Amount: 0.007519
Amount Units: ug/mL



Manual Integration Results

RT: 7.22
Area: 766
Amount: 0.005877
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 16:54:14
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-539020/2-A
Matrix: Water
Lab File ID: 06090012.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 500(mL)
Date Analyzed: 06/09/2021 16:47
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.91		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	1.87		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.90		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.78		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.83		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.73		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.40		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.47		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.69		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.44		0.41	0.40	0.10
2691-41-0	HMX	1.82	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.60		0.21	0.20	0.091
121-82-4	RDX	1.81		0.21	0.20	0.052
479-45-8	Tetryl	1.83		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	97		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090012.D
Lims ID: LCS 280-539020/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Jun-2021 16:47:52 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-539020/2
Misc. Info.: 280-0102208-012
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:01 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 09-Jun-2021 18:26:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.612	6.611	0.001	15393	0.2000	0.1823	M
7 RDX	1	7.585	7.584	0.001	19231	0.2000	0.1810	
8 2,4,6-Trinitrophenol	1	7.932	7.944	-0.012	16994	0.2000	0.2054	
$ 9 1,2-Dinitrobenzene	1	8.505	8.511	-0.006	24913	0.2000	0.1943	
10 1,3,5-Trinitrobenzene	1	8.638	8.637	0.001	42180	0.2000	0.1915	
11 1,3-Dinitrobenzene	1	9.258	9.264	-0.006	55490	0.2000	0.1873	
12 Nitrobenzene	1	9.645	9.651	-0.006	31202	0.2000	0.1598	
14 Tetryl	1	9.965	9.977	-0.012	31489	0.2000	0.1826	
15 Nitroglycerin	2	10.425	10.437	-0.012	125756	2.00	1.90	
16 2,4,6-Trinitrotoluene	1	10.892	10.897	-0.005	39134	0.2000	0.1899	
17 4-Amino-2,6-dinitrotoluene	1	11.092	11.104	-0.012	25778	0.2000	0.1687	
18 2-Amino-4,6-dinitrotoluene	1	11.352	11.364	-0.012	35870	0.2000	0.1733	
19 2,6-Dinitrotoluene	1	11.518	11.531	-0.013	26139	0.2000	0.1827	
20 2,4-Dinitrotoluene	1	11.692	11.704	-0.012	51073	0.2000	0.1779	
21 o-Nitrotoluene	1	12.558	12.571	-0.013	17979	0.2000	0.1400	
22 p-Nitrotoluene	1	12.998	13.011	-0.013	16152	0.2000	0.1443	
23 m-Nitrotoluene	1	13.585	13.597	-0.012	20846	0.2000	0.1465	
24 PETN	2	14.678	14.697	-0.019	141314	2.00	1.89	

QC Flag Legend

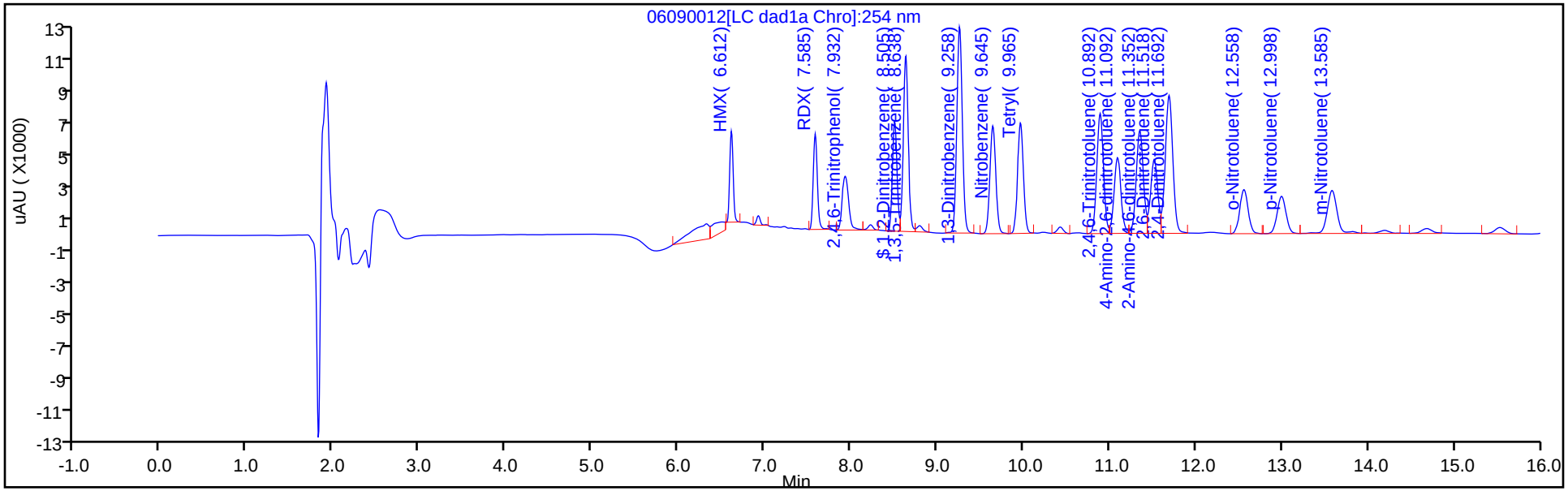
Processing Flags
Review Flags
M - Manually Integrated

Report Date: 10-Jun-2021 13:30:02 Chrom Revision: 2.3 13-May-2021 07:57:40

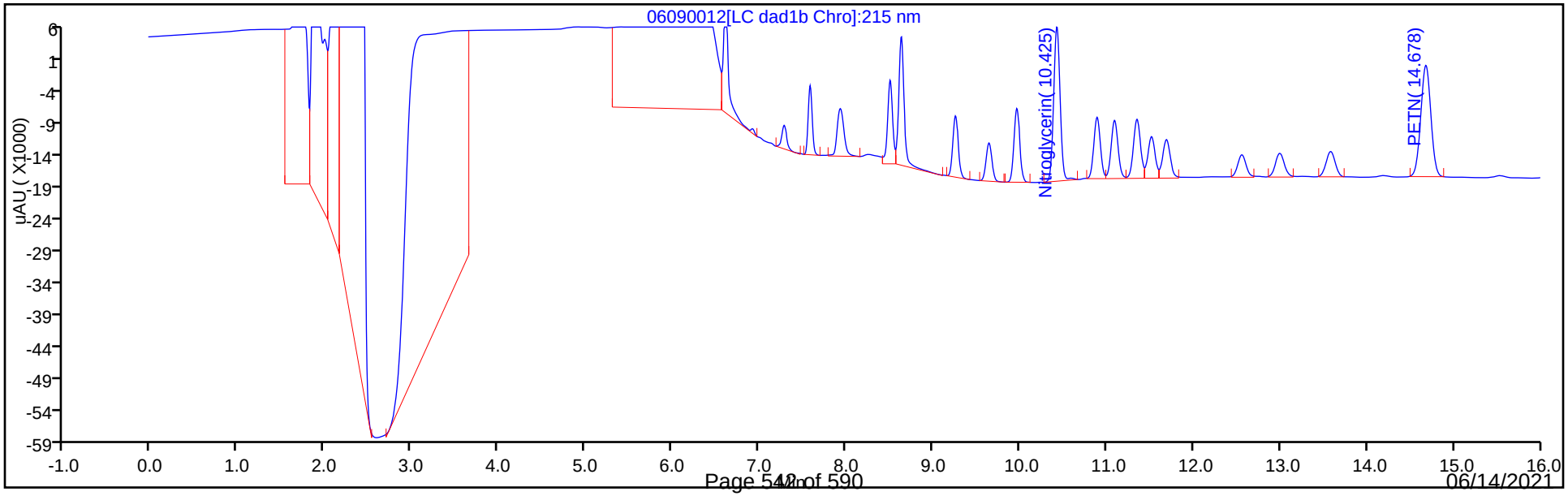
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090012.d				
Injection Date:	09-Jun-2021 16:47:52	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-539020/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090012.D				
Lims ID:	LCS 280-539020/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	09-Jun-2021 16:47:52	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-539020/2				
Misc. Info.:	280-0102208-012				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 18:26:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1943	97.15

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

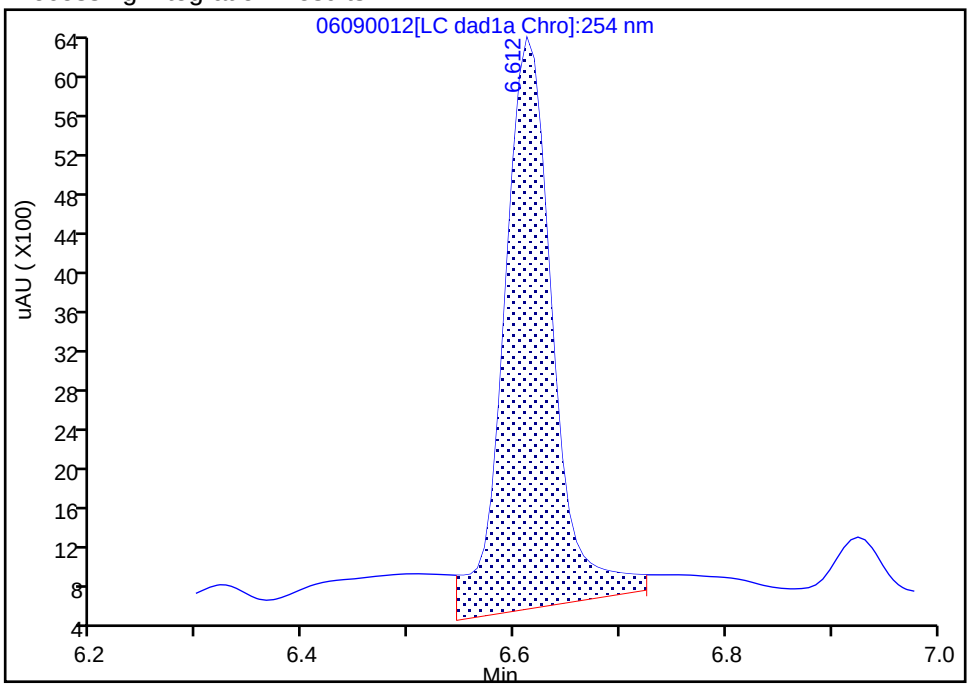
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090012.d				
Injection Date:	09-Jun-2021 16:47:52	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-539020/2-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

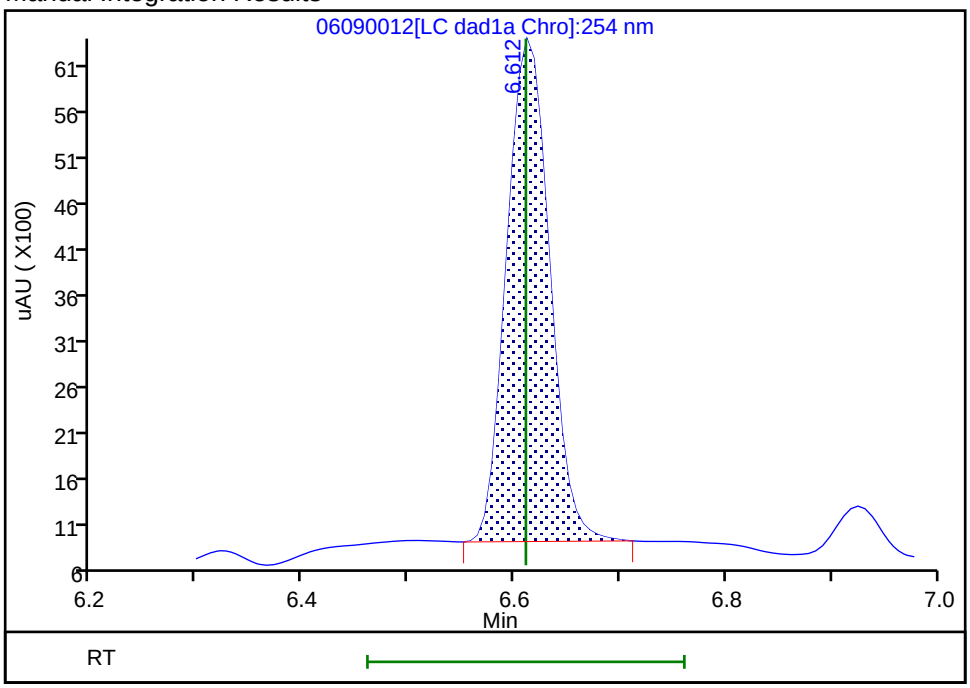
Processing Integration Results

RT: 6.61
Area: 18740
Amount: 0.221982
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 15393
Amount: 0.182335
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 17:20:49
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-539020/3-A
Matrix: Water
Lab File ID: 06090013.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 500(mL)
Date Analyzed: 06/09/2021 17:10
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.22	M	2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090013.D				
Lims ID:	LCS 280-539020/3-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	09-Jun-2021 17:10:48	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-539020/3				
Misc. Info.:	280-0102208-013				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 18:26:33		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.495	6.494	0.001	34665	0.2002	0.1866	M
5 DNX	1	6.808	6.808	0.000	25861	0.2002	0.1820	M
6 MNX	1	7.215	7.214	0.001	28874	0.2334	0.2215	M
$ 9 1,2-Dinitrobenzene	1	8.508	8.511	-0.003	25196	0.2000	0.1965	

QC Flag Legend

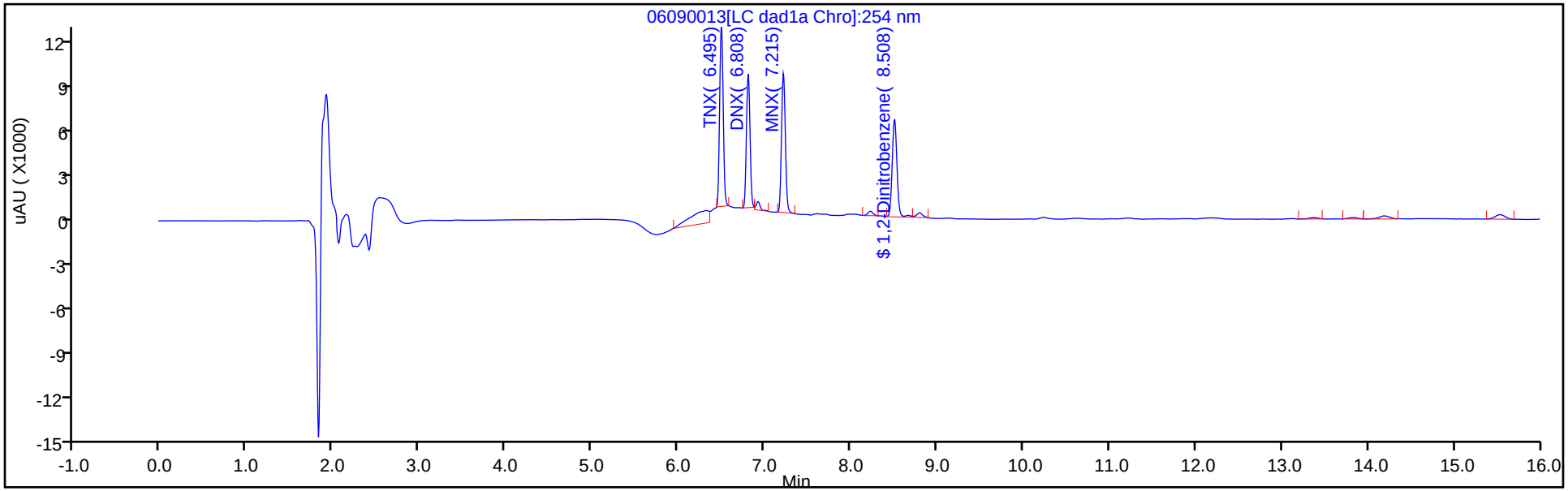
Processing Flags
Review Flags
M - Manually Integrated

Report Date: 10-Jun-2021 13:30:02 Chrom Revision: 2.3 13-May-2021 07:57:40

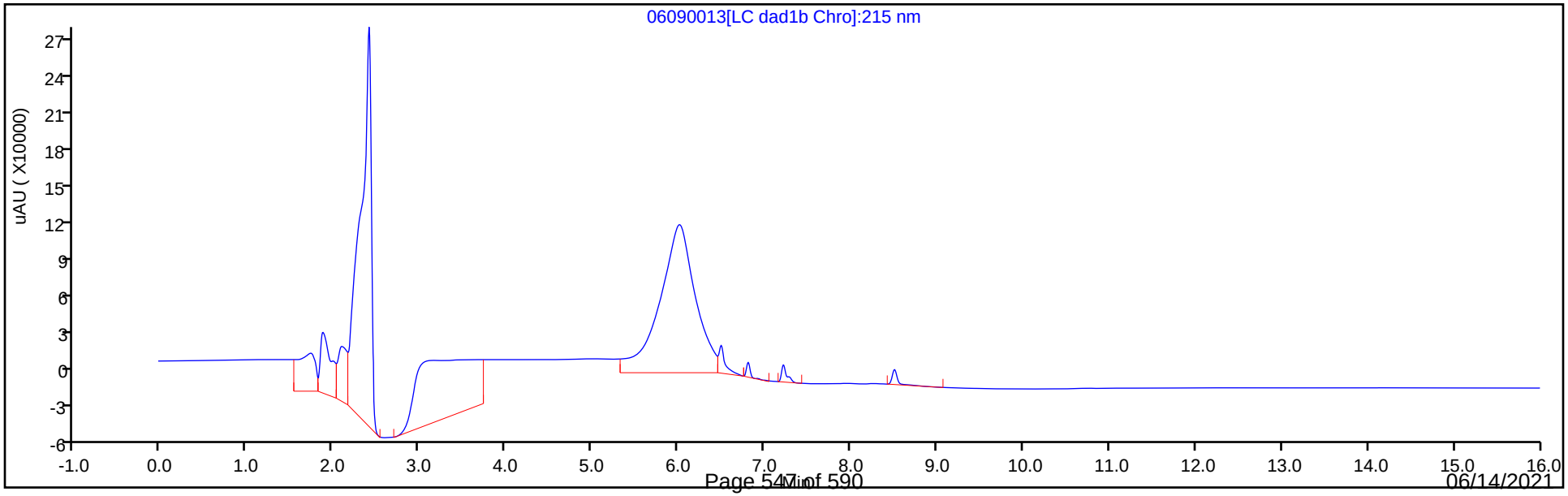
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090013.d				
Injection Date:	09-Jun-2021 17:10:48	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-539020/3-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090013.D				
Lims ID:	LCS 280-539020/3-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	09-Jun-2021 17:10:48	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-539020/3				
Misc. Info.:	280-0102208-013				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 18:26:33		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1965	98.26

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

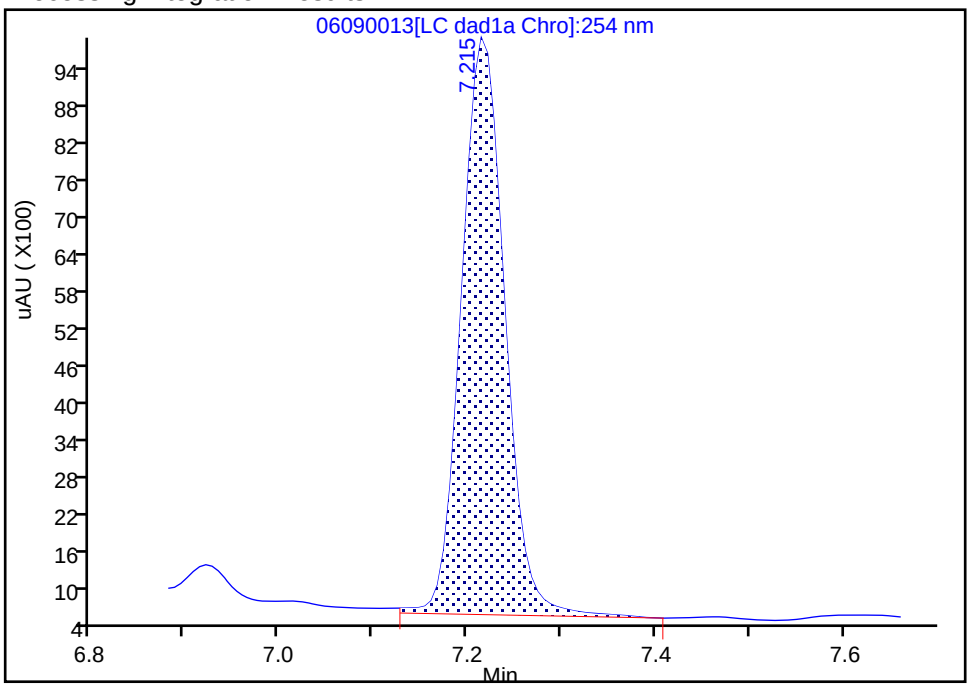
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090013.d				
Injection Date:	09-Jun-2021 17:10:48	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-539020/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

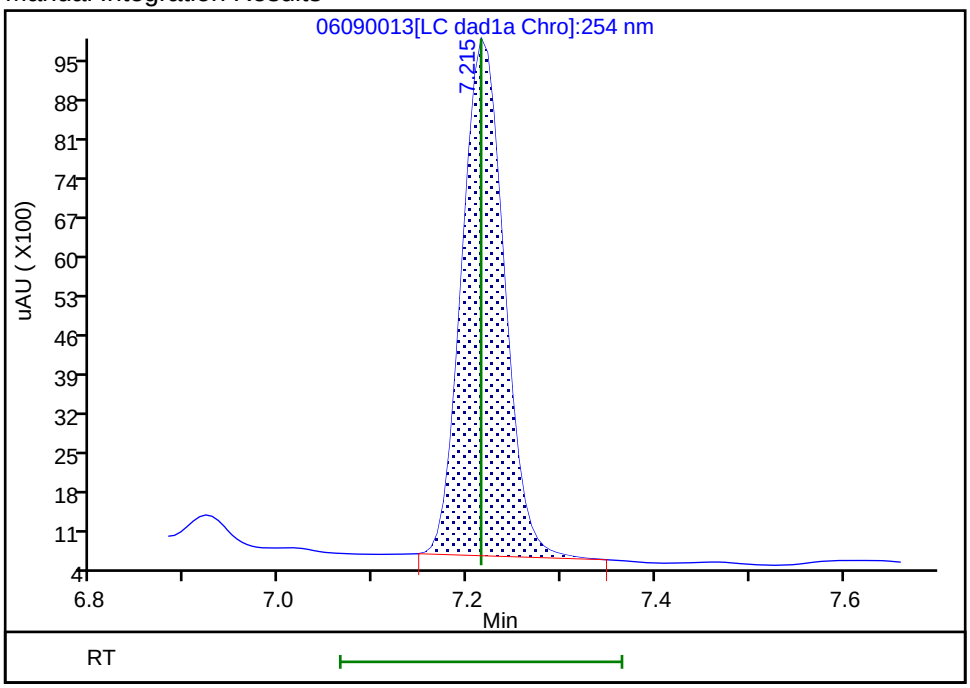
Processing Integration Results

RT: 7.21
Area: 29865
Amount: 0.229131
Amount Units: ug/mL



Manual Integration Results

RT: 7.21
Area: 28874
Amount: 0.221528
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 18:26:32

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS003-DP06-45 MS
Lab Sample ID: 280-149356-3 MS
Matrix: Water
Lab File ID: 06090017.D
Analysis Method: 8330A
Date Collected: 06/02/2021 10:40
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 488.7(mL)
Date Analyzed: 06/09/2021 18:42
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.86	M	0.21	0.20	0.086
99-65-0	1,3-Dinitrobenzene	1.86		0.11	0.10	0.038
118-96-7	2,4,6-Trinitrotoluene	1.85		0.11	0.10	0.046
121-14-2	2,4-Dinitrotoluene	1.68		0.10	0.082	0.028
606-20-2	2,6-Dinitrotoluene	1.72		0.10	0.082	0.041
35572-78-2	2-Amino-4,6-dinitrotoluene	1.61		0.11	0.10	0.052
88-72-2	2-Nitrotoluene	1.33	J1	0.21	0.20	0.087
99-08-1	3-Nitrotoluene	1.30	J1	0.41	0.41	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.45	J1	0.15	0.12	0.059
99-99-0	4-Nitrotoluene	1.38	J1	0.42	0.41	0.10
2691-41-0	HMX	1.89	M	0.21	0.20	0.090
98-95-3	Nitrobenzene	1.53		0.21	0.20	0.093
121-82-4	RDX	1.75	M	0.21	0.20	0.053
479-45-8	Tetryl	1.89		0.11	0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	92	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090017.D
Lims ID: 280-149356-A-3-B MS
Client ID: OS003-DP06-45
Sample Type: MS
Inject. Date: 09-Jun-2021 18:42:39 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-149356-A-3-B
Misc. Info.: 280-0102208-017
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:01 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 09-Jun-2021 19:10:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.609	6.611	-0.002	15596	0.2000	0.1847	M
7 RDX	1	7.582	7.584	-0.002	18227	0.2000	0.1715	M
8 2,4,6-Trinitrophenol	1	7.922	7.944	-0.022	17131	0.2000	0.2071	M
$ 9 1,2-Dinitrobenzene	1	8.502	8.511	-0.009	23583	0.2000	0.1839	M
10 1,3,5-Trinitrobenzene	1	8.635	8.637	-0.002	39982	0.2000	0.1815	M
11 1,3-Dinitrobenzene	1	9.262	9.264	-0.002	53818	0.2000	0.1816	
12 Nitrobenzene	1	9.648	9.651	-0.003	29215	0.2000	0.1496	
14 Tetryl	1	9.968	9.977	-0.009	31816	0.2000	0.1845	
15 Nitroglycerin	2	10.428	10.437	-0.009	124814	2.00	1.88	
16 2,4,6-Trinitrotoluene	1	10.895	10.897	-0.002	37288	0.2000	0.1810	
17 4-Amino-2,6-dinitrotoluene	1	11.102	11.104	-0.002	21636	0.2000	0.1416	
18 2-Amino-4,6-dinitrotoluene	1	11.362	11.364	-0.002	32663	0.2000	0.1578	
19 2,6-Dinitrotoluene	1	11.522	11.531	-0.009	24109	0.2000	0.1685	
20 2,4-Dinitrotoluene	1	11.695	11.704	-0.009	47028	0.2000	0.1639	
21 o-Nitrotoluene	1	12.568	12.571	-0.003	16736	0.2000	0.1304	
22 p-Nitrotoluene	1	13.002	13.011	-0.009	15074	0.2000	0.1347	
23 m-Nitrotoluene	1	13.588	13.597	-0.009	18029	0.2000	0.1267	
24 PETN	2	14.688	14.697	-0.009	139829	2.00	1.87	

QC Flag Legend

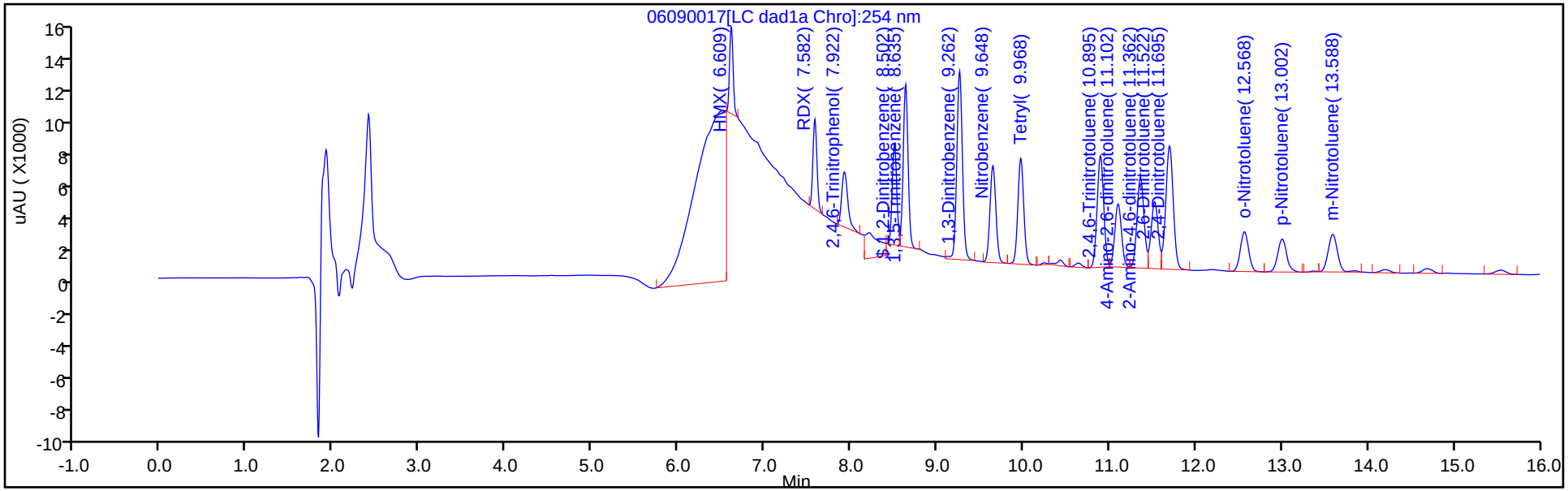
Processing Flags
Review Flags
M - Manually Integrated

Report Date: 10-Jun-2021 13:30:04 Chrom Revision: 2.3 13-May-2021 07:57:40

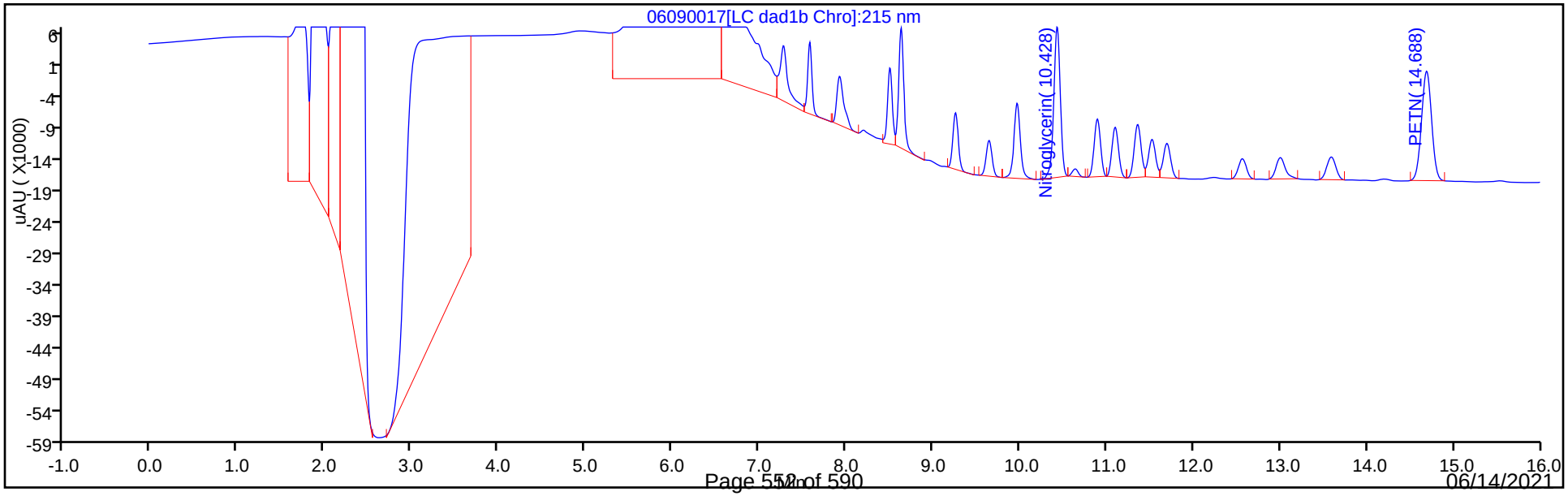
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090017.d				
Injection Date:	09-Jun-2021 18:42:39	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-3-B MS			Worklist Smp#:	17
Client ID:	OS003-DP06-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090017.D				
Lims ID:	280-149356-A-3-B MS				
Client ID:	OS003-DP06-45				
Sample Type:	MS				
Inject. Date:	09-Jun-2021 18:42:39	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-3-B				
Misc. Info.:	280-0102208-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 19:10:10		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1839	91.97

Eurofins TestAmerica, Denver

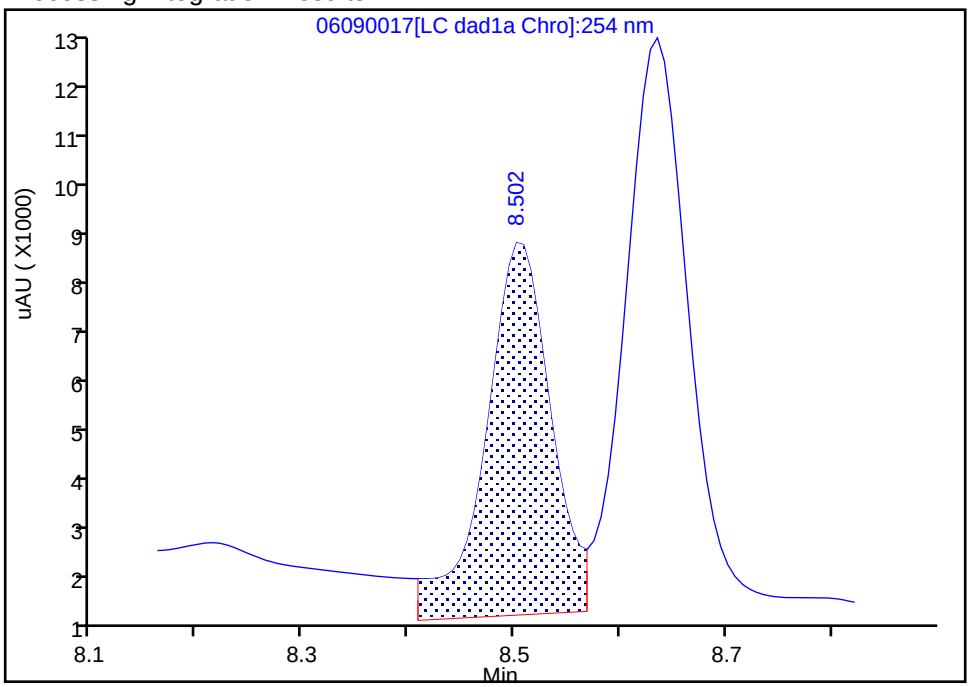
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090017.d				
Injection Date:	09-Jun-2021 18:42:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-B MS				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

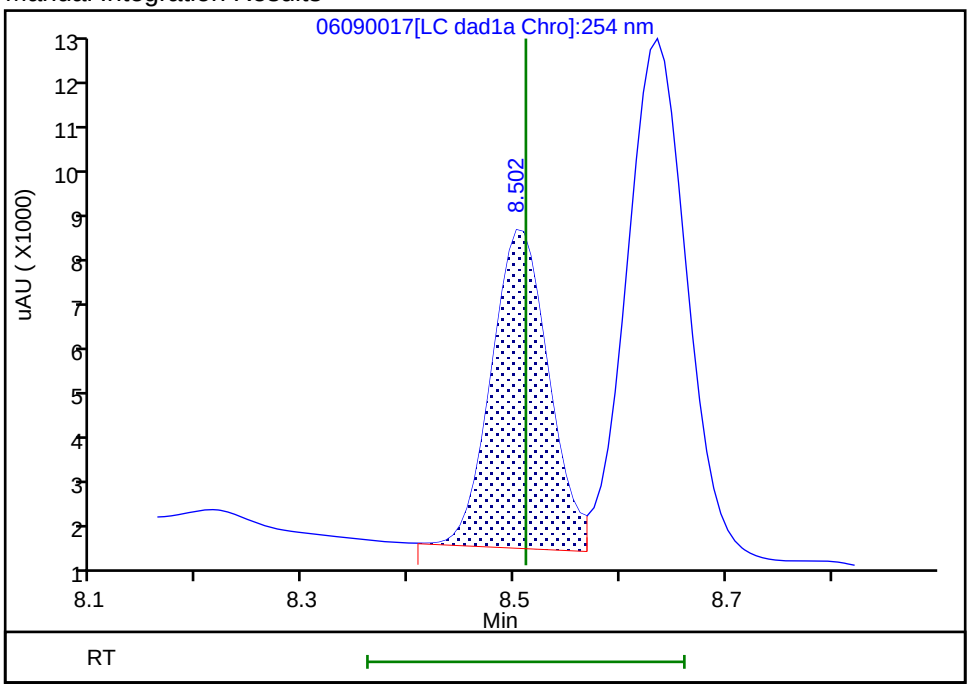
Processing Integration Results

RT: 8.50
Area: 29295
Amount: 0.228479
Amount Units: ug/mL



Manual Integration Results

RT: 8.50
Area: 23583
Amount: 0.183930
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:10:03
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

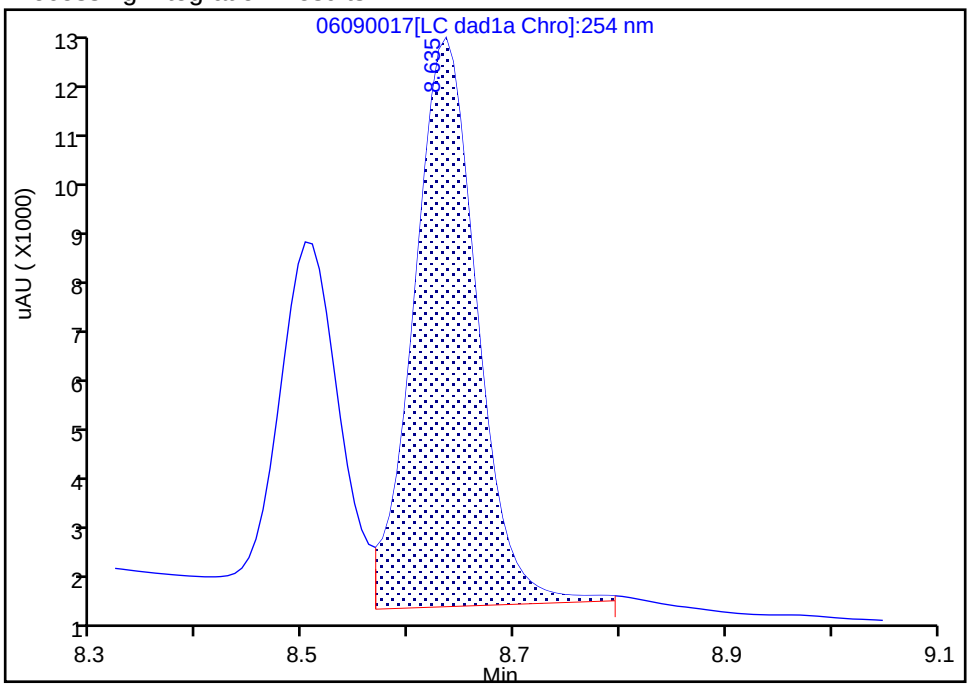
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090017.d				
Injection Date:	09-Jun-2021 18:42:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-B MS				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

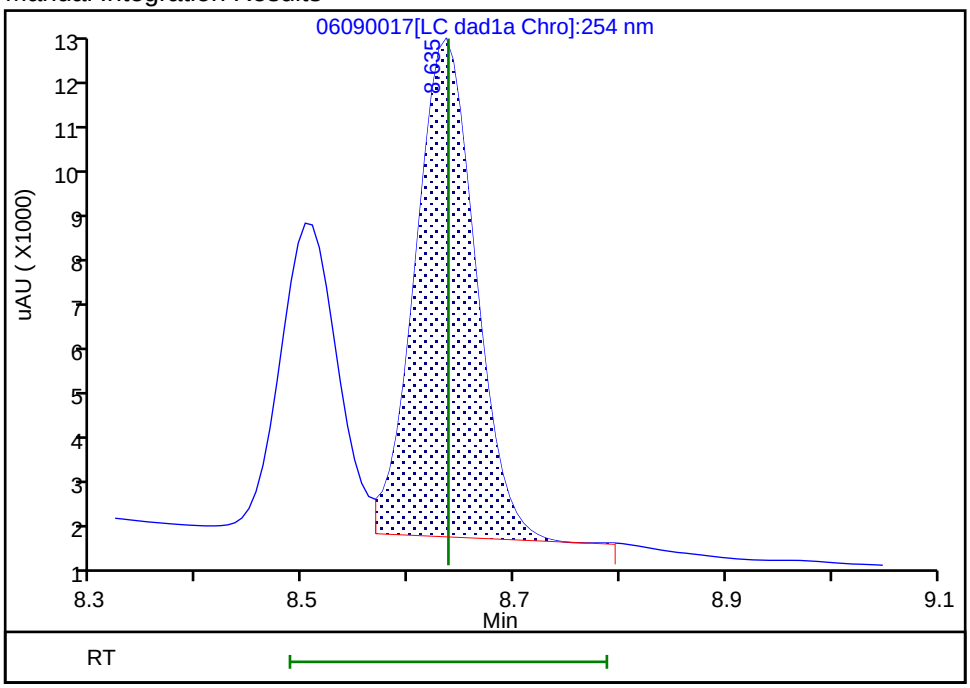
Processing Integration Results

RT: 8.64
Area: 43388
Amount: 0.196934
Amount Units: ug/mL



Manual Integration Results

RT: 8.64
Area: 39982
Amount: 0.181475
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:10:03
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

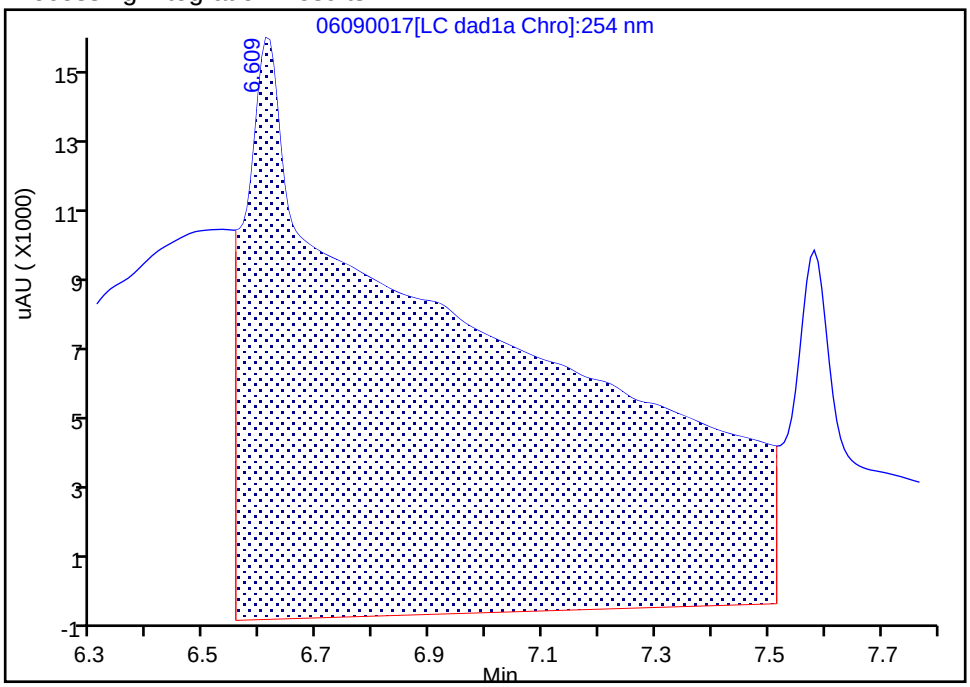
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090017.d				
Injection Date:	09-Jun-2021 18:42:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-B MS				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

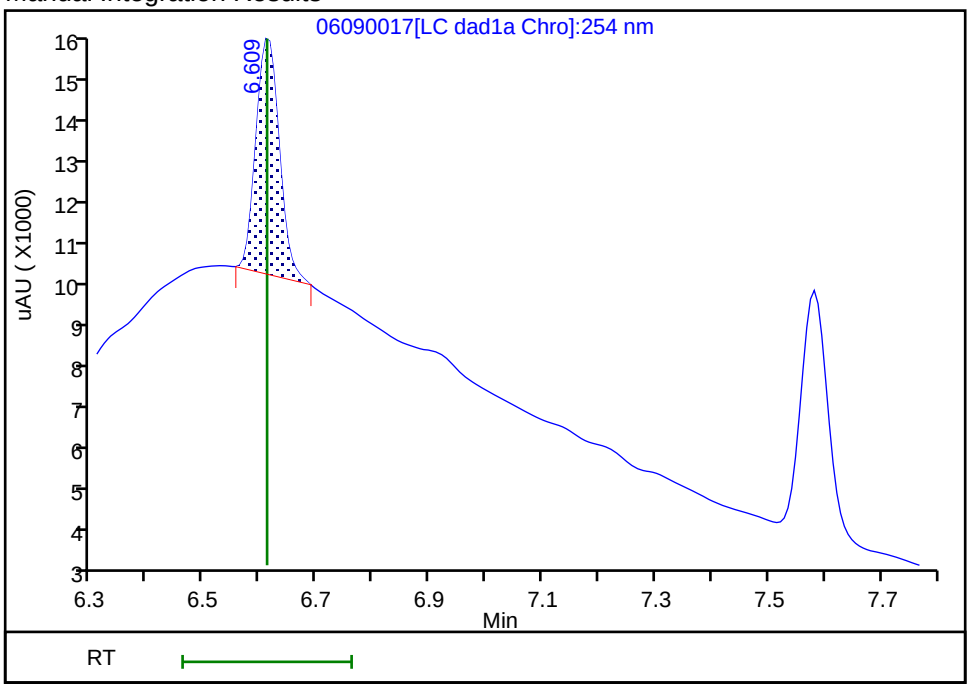
Processing Integration Results

RT: 6.61
Area: 444897
Amount: 5.269953
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 15596
Amount: 0.184740
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:09:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

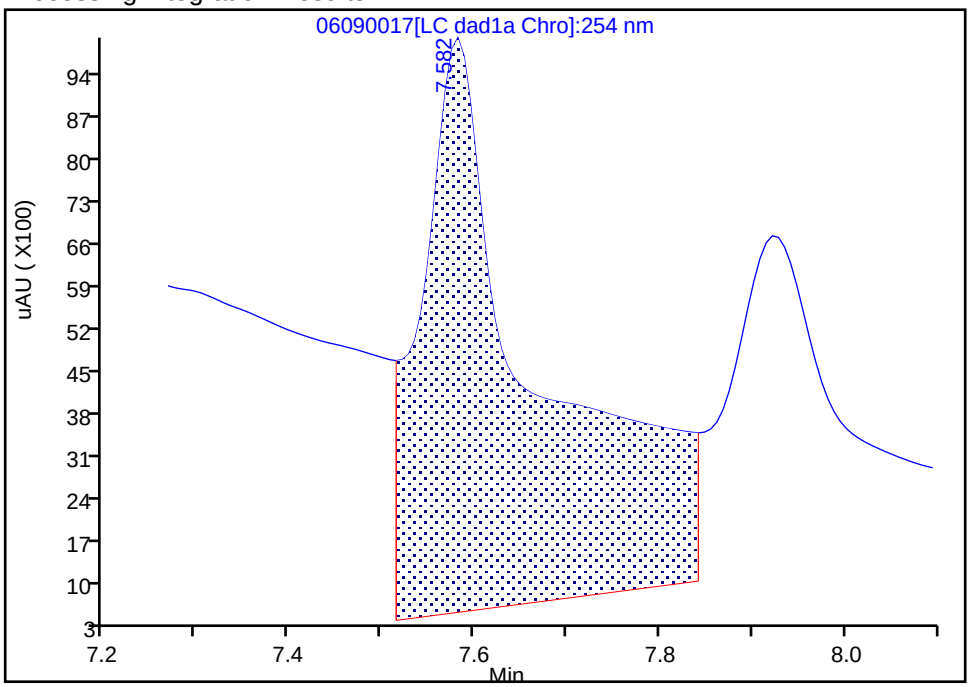
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090017.d				
Injection Date:	09-Jun-2021 18:42:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-B MS				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

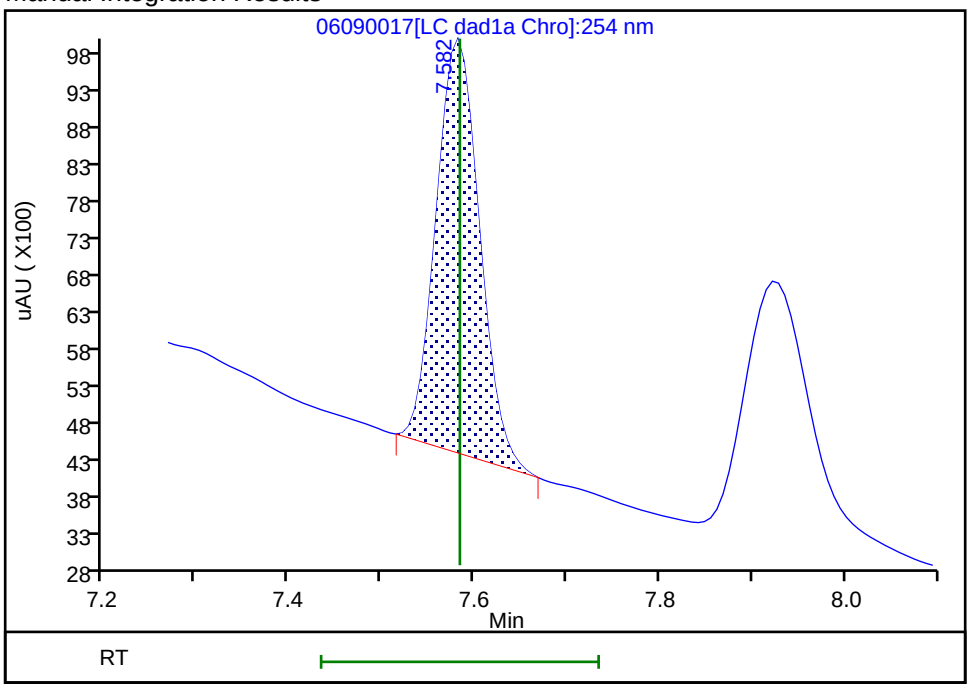
Processing Integration Results

RT: 7.58
Area: 83843
Amount: 0.789025
Amount Units: ug/mL



Manual Integration Results

RT: 7.58
Area: 18227
Amount: 0.171530
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:09:51
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS003-DP06-45 MS
Lab Sample ID: 280-149356-3 MS
Matrix: Water
Lab File ID: 06090019.D
Analysis Method: 8330A
Date Collected: 06/02/2021 10:40
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 502.1(mL)
Date Analyzed: 06/09/2021 19:28
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.11	M	2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090019.D				
Lims ID:	280-149356-B-3-A MS				
Client ID:	OS003-DP06-45				
Sample Type:	MS				
Inject. Date:	09-Jun-2021 19:28:34	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-B-3-A				
Misc. Info.:	280-0102208-019				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 20:42:26		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.492	6.494	-0.002	36136	0.2002	0.1945	M
5 DNX	1	6.806	6.808	-0.002	25602	0.2002	0.1801	M
6 MNX	1	7.212	7.214	-0.002	27563	0.2334	0.2115	M
$ 9 1,2-Dinitrobenzene	1	8.499	8.511	-0.012	25187	0.2000	0.1964	

QC Flag Legend

Processing Flags

Review Flags

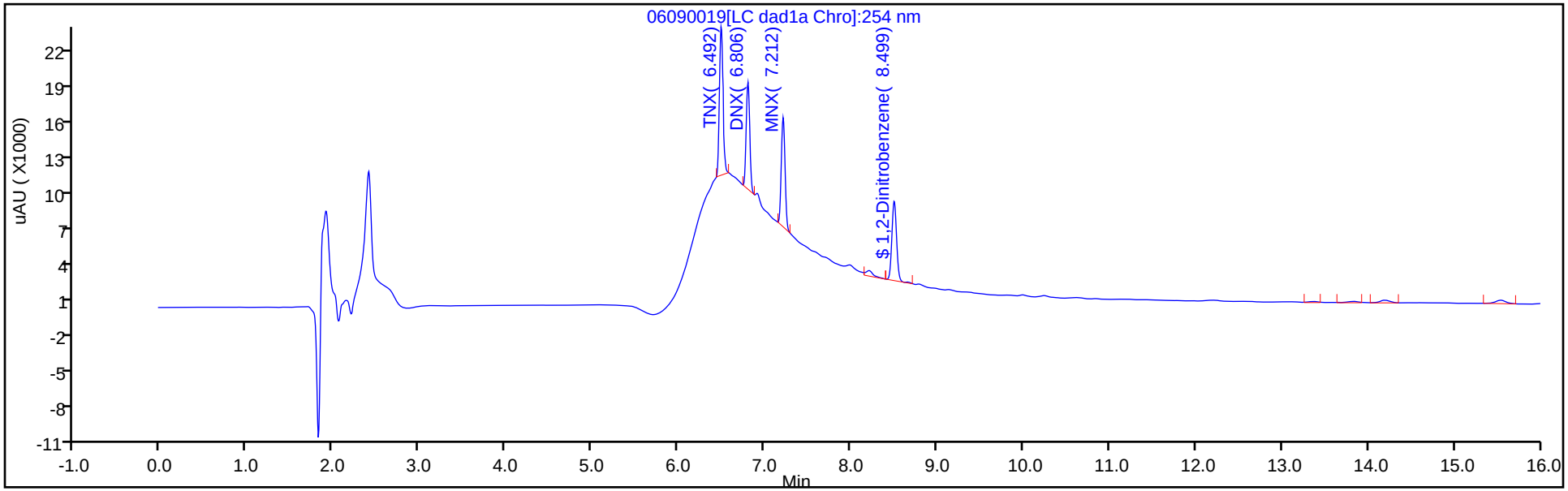
M - Manually Integrated

Report Date: 10-Jun-2021 13:30:05 Chrom Revision: 2.3 13-May-2021 07:57:40

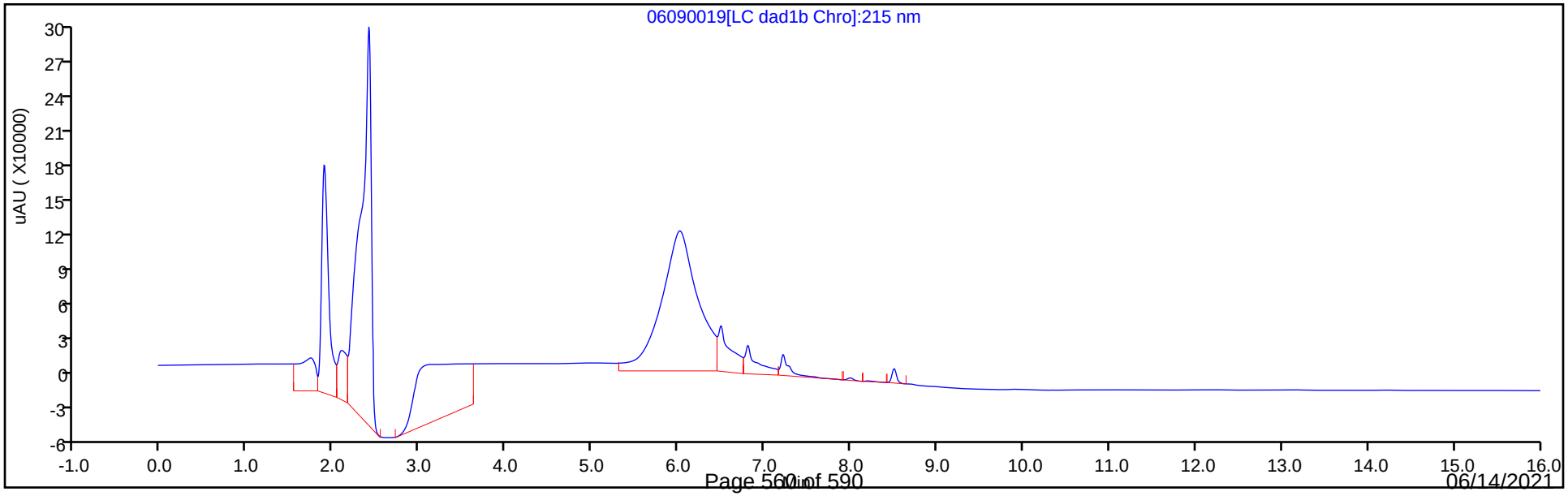
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090019.d				
Injection Date:	09-Jun-2021 19:28:34	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-B-3-A MS			Worklist Smp#:	19
Client ID:	OS003-DP06-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090019.D				
Lims ID:	280-149356-B-3-A MS				
Client ID:	OS003-DP06-45				
Sample Type:	MS				
Inject. Date:	09-Jun-2021 19:28:34	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-B-3-A				
Misc. Info.:	280-0102208-019				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 20:42:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1964	98.22

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

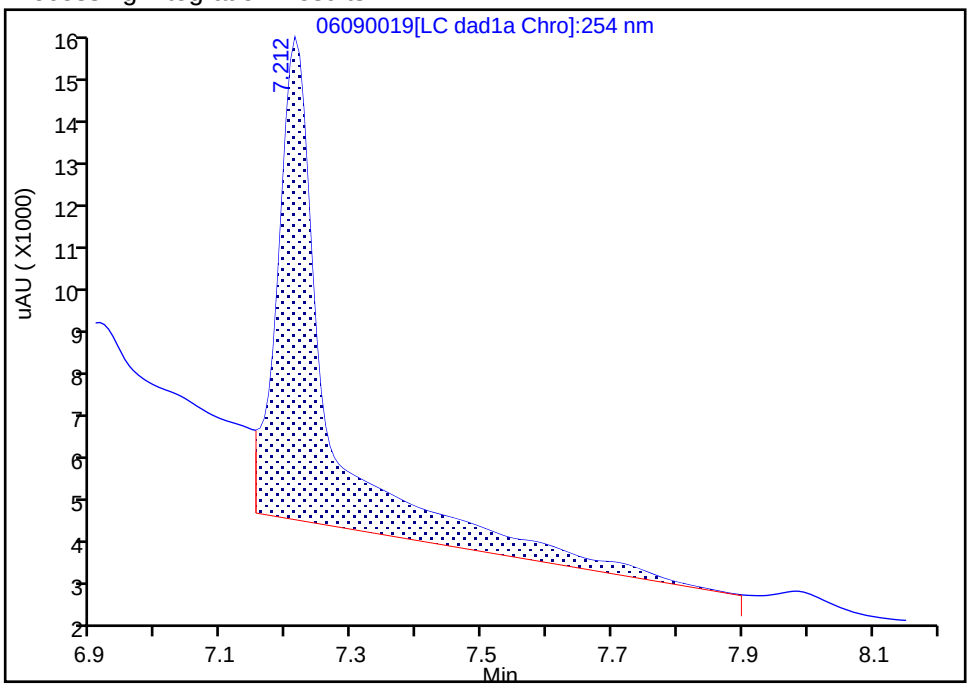
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090019.d				
Injection Date:	09-Jun-2021 19:28:34	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-B-3-A MS				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

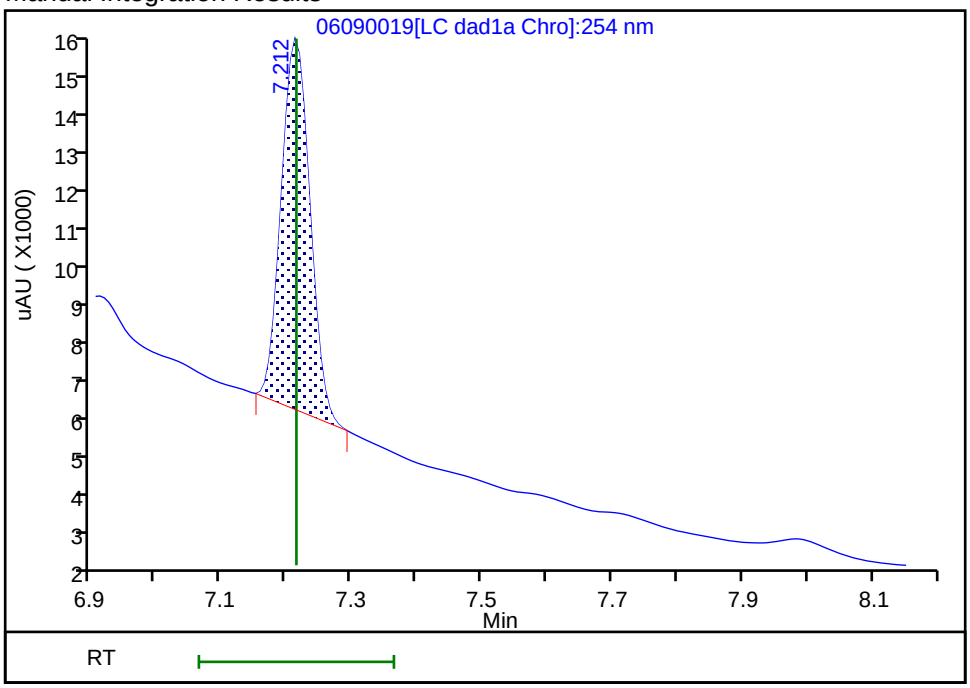
Processing Integration Results

RT: 7.21
Area: 56152
Amount: 0.430811
Amount Units: ug/mL



Manual Integration Results

RT: 7.21
Area: 27563
Amount: 0.211469
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 20:42:24
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS003-DP06-45 MSD
Lab Sample ID: 280-149356-3 MSD
Matrix: Water
Lab File ID: 06090018.D
Analysis Method: 8330A
Date Collected: 06/02/2021 10:40
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 496.9(mL)
Date Analyzed: 06/09/2021 19:05
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.78	M	0.21	0.20	0.085
99-65-0	1,3-Dinitrobenzene	1.74		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.74		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.55	J1	0.10	0.080	0.028
606-20-2	2,6-Dinitrotoluene	1.61		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.49	J1	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.18	J1	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.13	J1	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.33	J1	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.20	M J1	0.41	0.40	0.10
2691-41-0	HMX	1.83	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.39		0.21	0.20	0.092
121-82-4	RDX	1.70	M	0.21	0.20	0.052
479-45-8	Tetryl	1.79		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	88	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090018.D
Lims ID: 280-149356-A-3-C MSD
Client ID: OS003-DP06-45
Sample Type: MSD
Inject. Date: 09-Jun-2021 19:05:37 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-149356-A-3-C
Misc. Info.: 280-0102208-018
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 10-Jun-2021 13:30:01 Calib Date: 01-May-2021 21:04:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1633

First Level Reviewer: zhangji Date: 09-Jun-2021 19:32:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.609	6.611	-0.002	15354	0.2000	0.1819	M
7 RDX	1	7.576	7.584	-0.008	17916	0.2000	0.1686	M
8 2,4,6-Trinitrophenol	1	7.923	7.944	-0.021	16691	0.2000	0.2018	M
$ 9 1,2-Dinitrobenzene	1	8.503	8.511	-0.008	22667	0.2000	0.1768	M
10 1,3,5-Trinitrobenzene	1	8.629	8.637	-0.008	39077	0.2000	0.1774	M
11 1,3-Dinitrobenzene	1	9.256	9.264	-0.008	51265	0.2000	0.1730	
12 Nitrobenzene	1	9.642	9.651	-0.009	27062	0.2000	0.1386	
14 Tetryl	1	9.962	9.977	-0.015	30587	0.2000	0.1774	
15 Nitroglycerin	2	10.422	10.437	-0.015	123405	2.00	1.86	
16 2,4,6-Trinitrotoluene	1	10.889	10.897	-0.008	35673	0.2000	0.1731	
17 4-Amino-2,6-dinitrotoluene	1	11.089	11.104	-0.015	20171	0.2000	0.1320	
18 2-Amino-4,6-dinitrotoluene	1	11.349	11.364	-0.015	30552	0.2000	0.1476	
19 2,6-Dinitrotoluene	1	11.516	11.531	-0.015	22954	0.2000	0.1604	
20 2,4-Dinitrotoluene	1	11.689	11.704	-0.015	44075	0.2000	0.1536	
21 o-Nitrotoluene	1	12.556	12.571	-0.015	15012	0.2000	0.1169	
22 p-Nitrotoluene	1	12.996	13.011	-0.015	13307	0.2000	0.1189	M
23 m-Nitrotoluene	1	13.582	13.597	-0.015	15968	0.2000	0.1123	
24 PETN	2	14.676	14.697	-0.021	136384	2.00	1.82	

QC Flag Legend

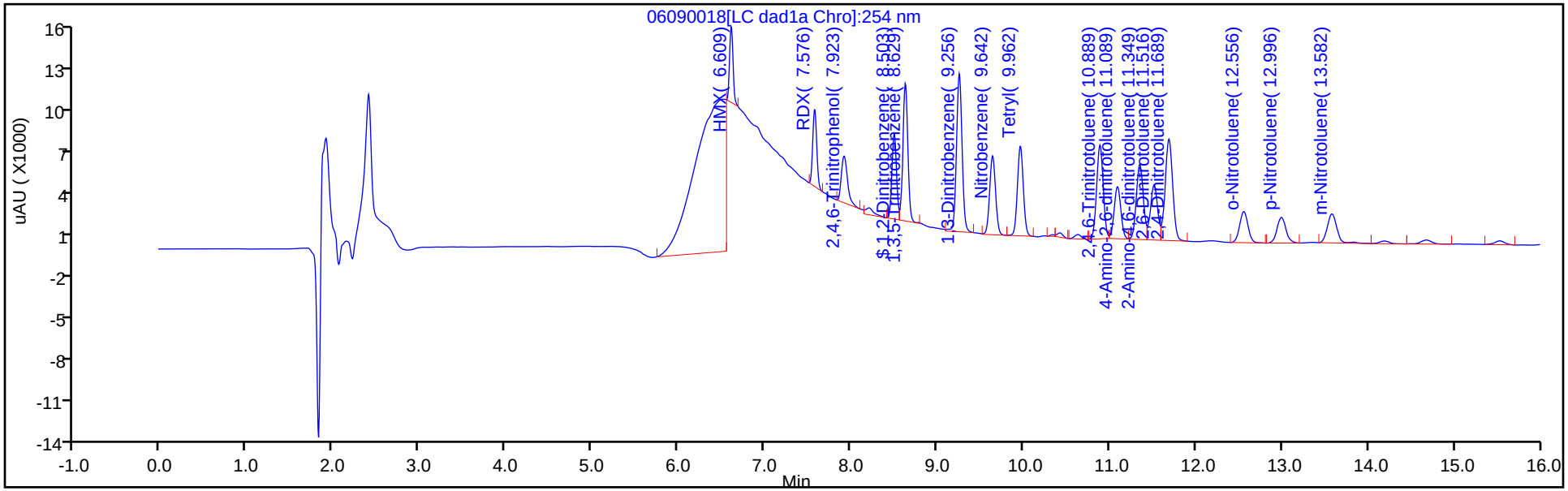
Processing Flags
Review Flags
M - Manually Integrated

Report Date: 10-Jun-2021 13:30:05 Chrom Revision: 2.3 13-May-2021 07:57:40

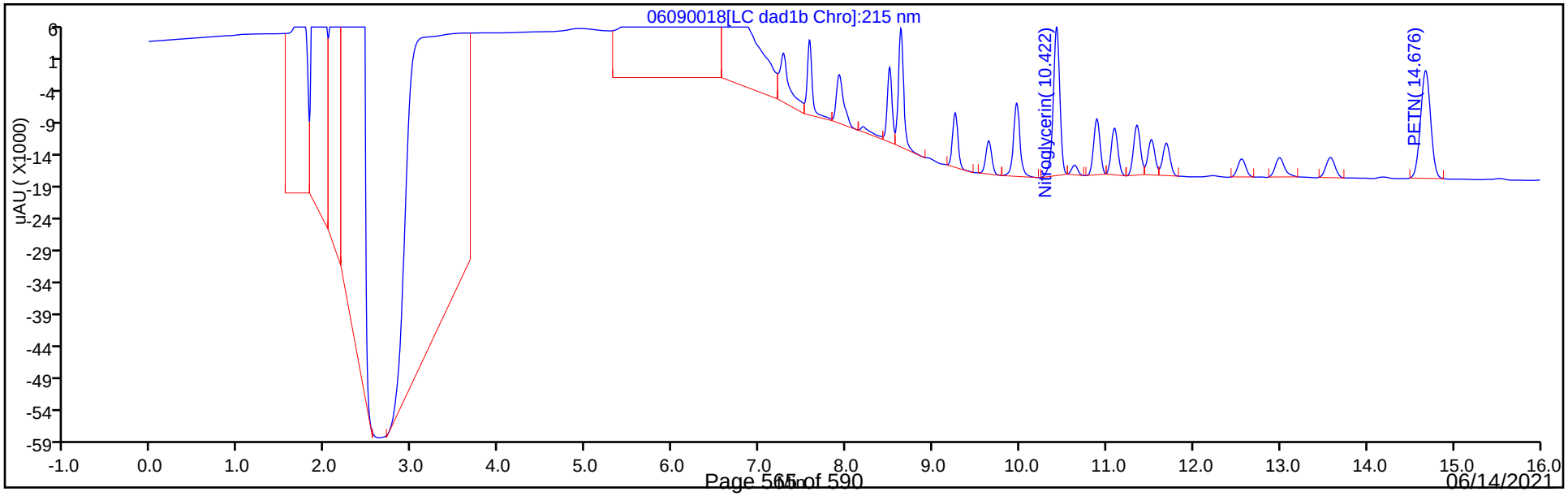
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090018.d				
Injection Date:	09-Jun-2021 19:05:37	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-A-3-C MSD			Worklist Smp#:	18
Client ID:	OS003-DP06-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090018.D				
Lims ID:	280-149356-A-3-C MSD				
Client ID:	OS003-DP06-45				
Sample Type:	MSD				
Inject. Date:	09-Jun-2021 19:05:37	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-A-3-C				
Misc. Info.:	280-0102208-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 19:32:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1768	88.39

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

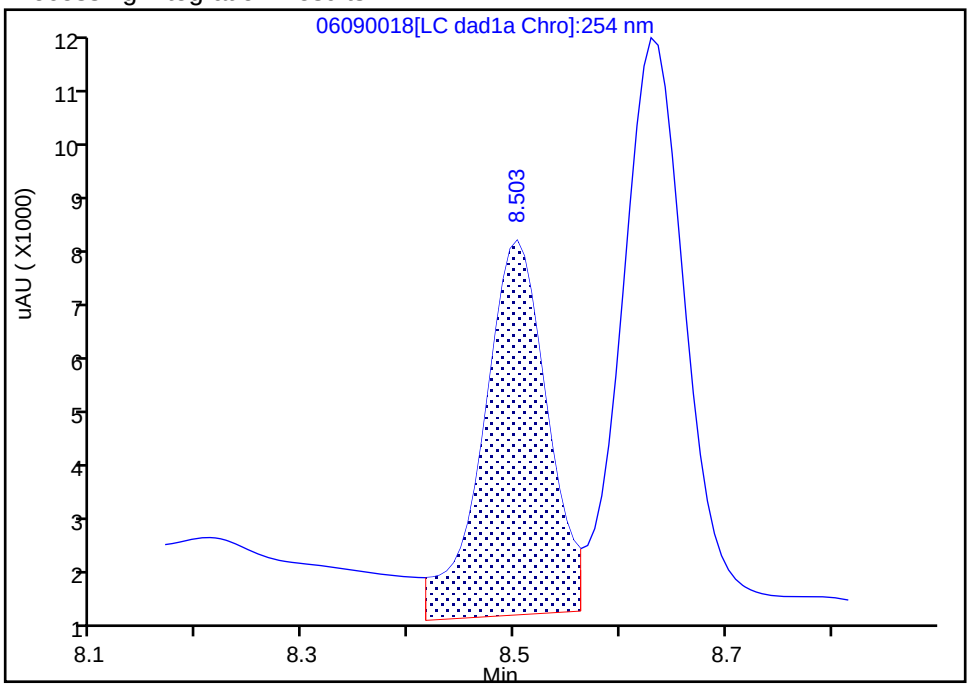
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090018.d				
Injection Date:	09-Jun-2021 19:05:37	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-C MSD				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

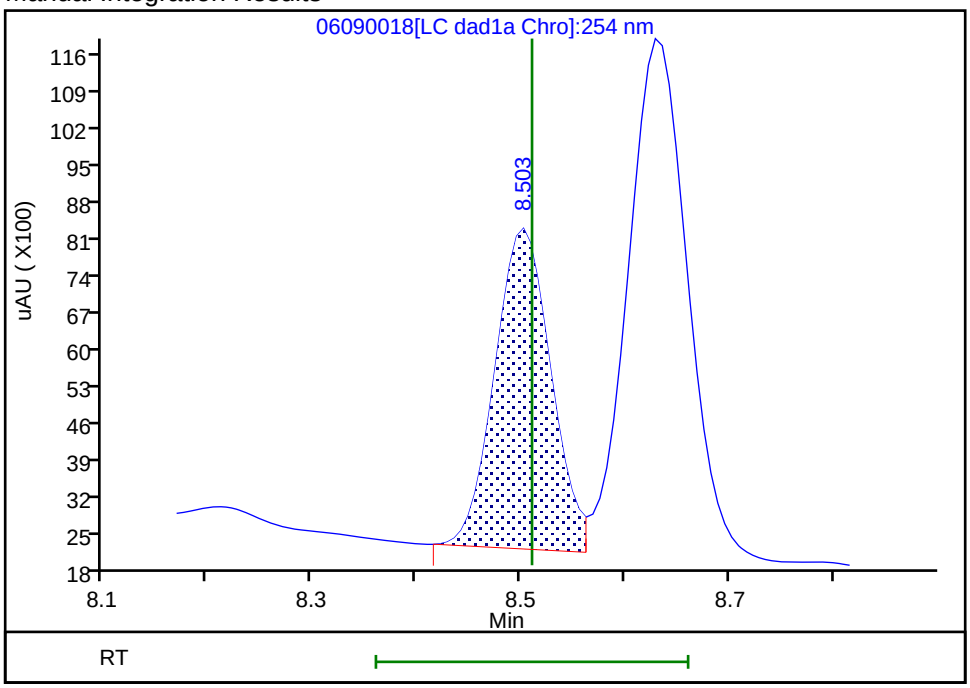
Processing Integration Results

RT: 8.50
Area: 27951
Amount: 0.217997
Amount Units: ug/mL



Manual Integration Results

RT: 8.50
Area: 22667
Amount: 0.176786
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:31:42
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

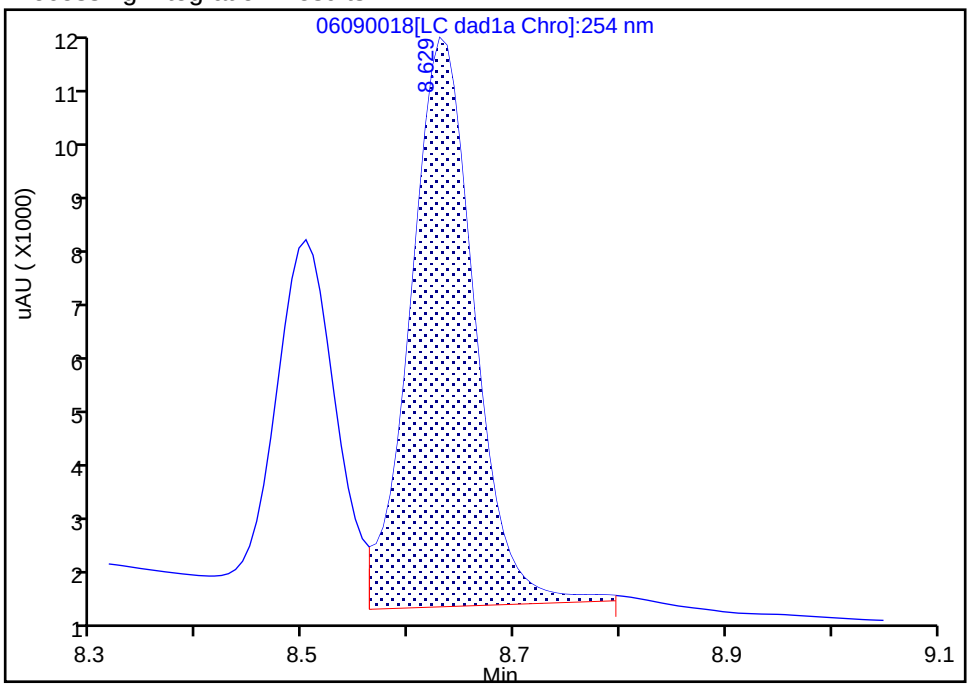
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090018.d				
Injection Date:	09-Jun-2021 19:05:37	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-C MSD				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

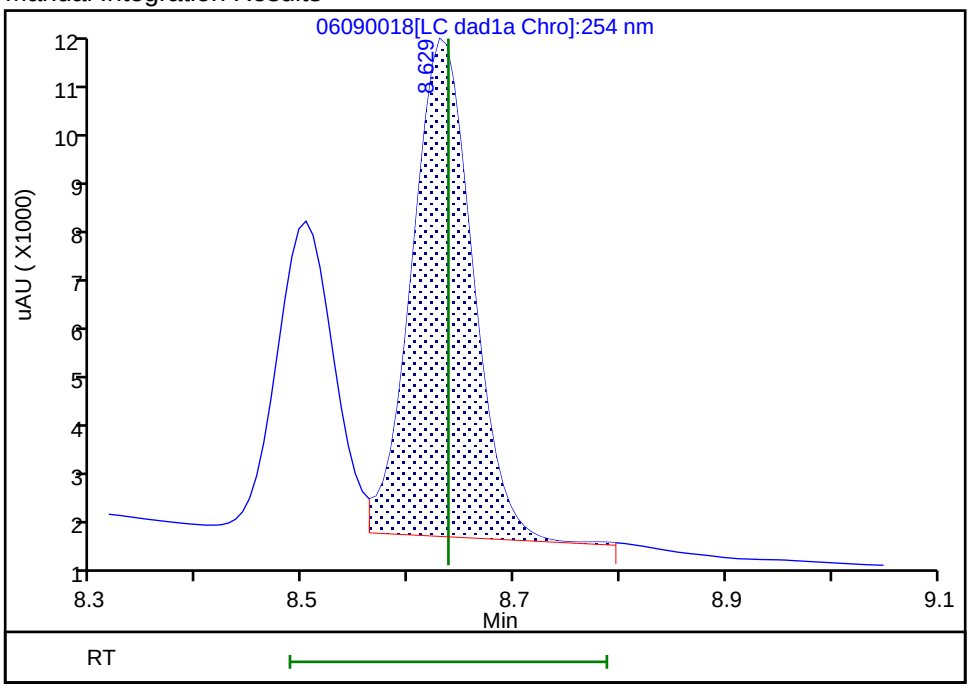
Processing Integration Results

RT: 8.63
Area: 42472
Amount: 0.192776
Amount Units: ug/mL



Manual Integration Results

RT: 8.63
Area: 39077
Amount: 0.177367
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:31:42
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

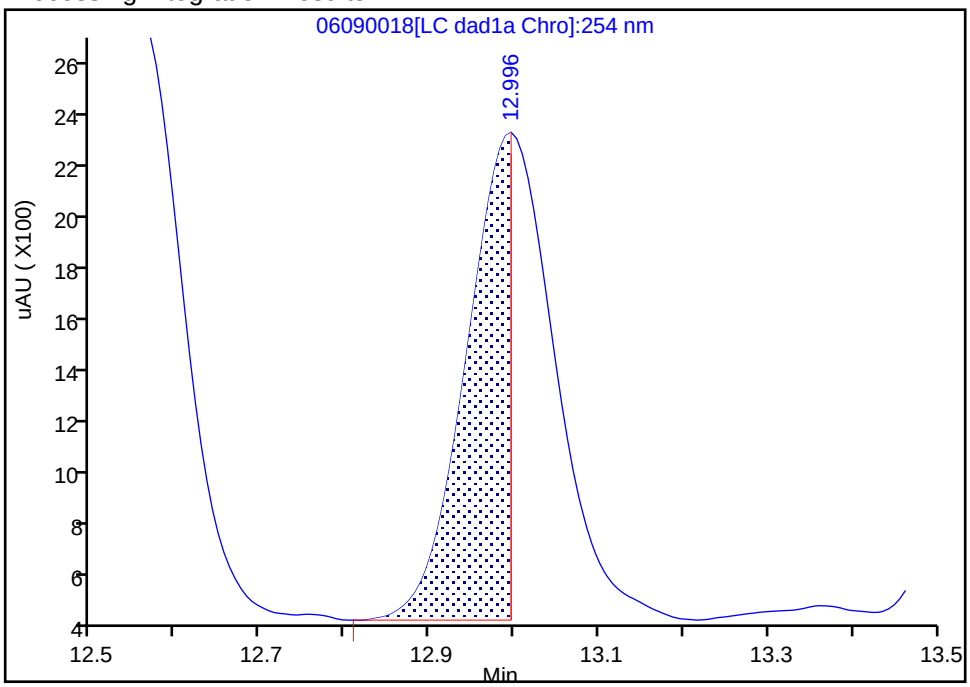
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090018.d				
Injection Date:	09-Jun-2021 19:05:37	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-C MSD				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

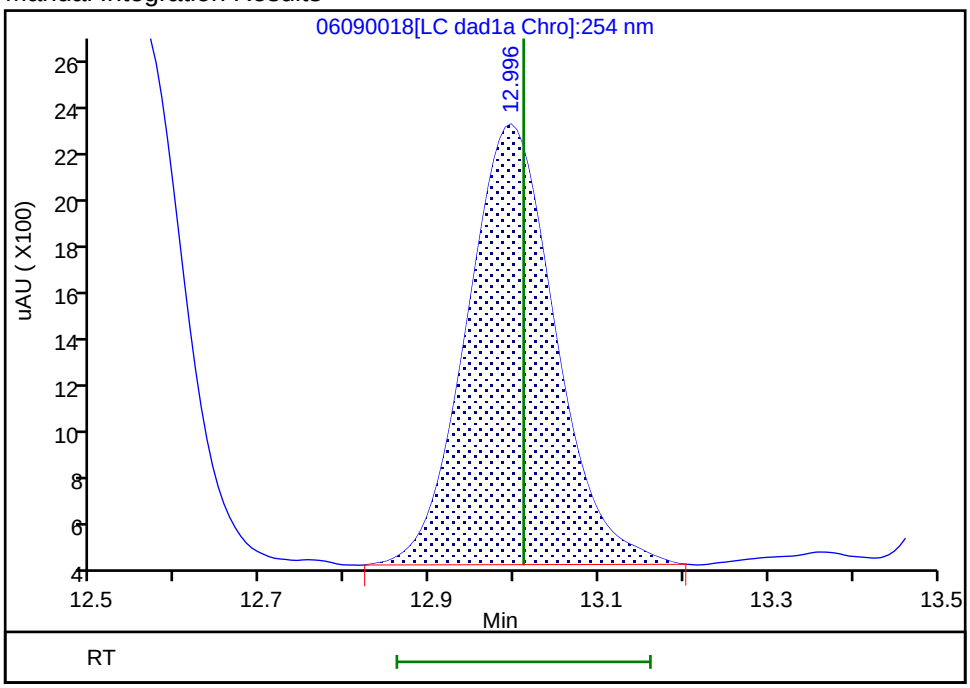
Processing Integration Results

RT: 13.00
Area: 6561
Amount: 0.058626
Amount Units: ug/mL



Manual Integration Results

RT: 13.00
Area: 13307
Amount: 0.118905
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:31:56
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

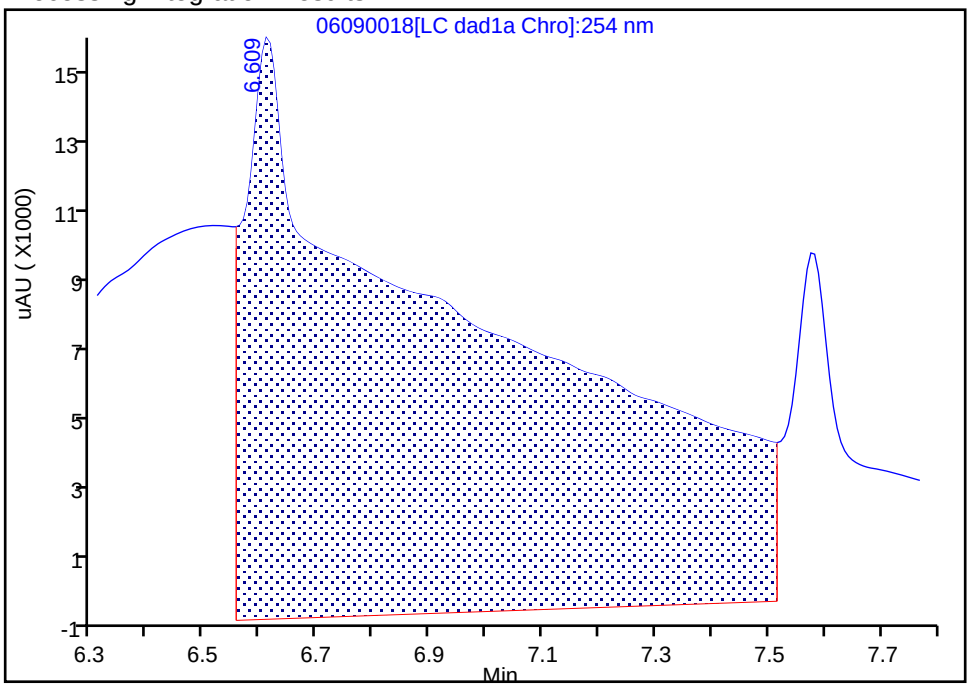
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090018.d				
Injection Date:	09-Jun-2021 19:05:37	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-C MSD				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

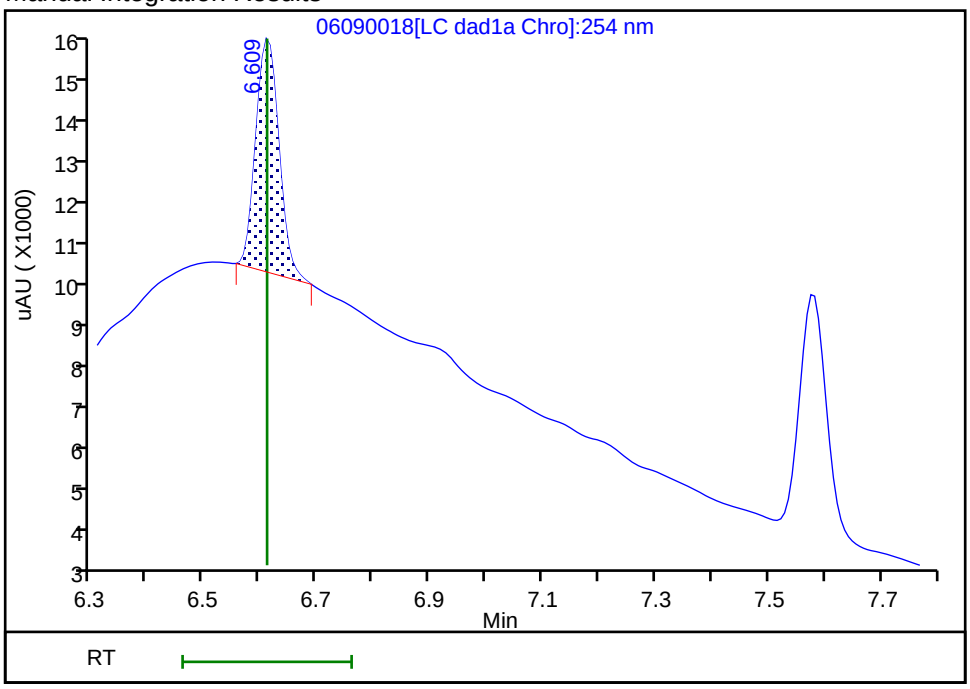
Processing Integration Results

RT: 6.61
Area: 451333
Amount: 5.346190
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 15354
Amount: 0.181873
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:31:27

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

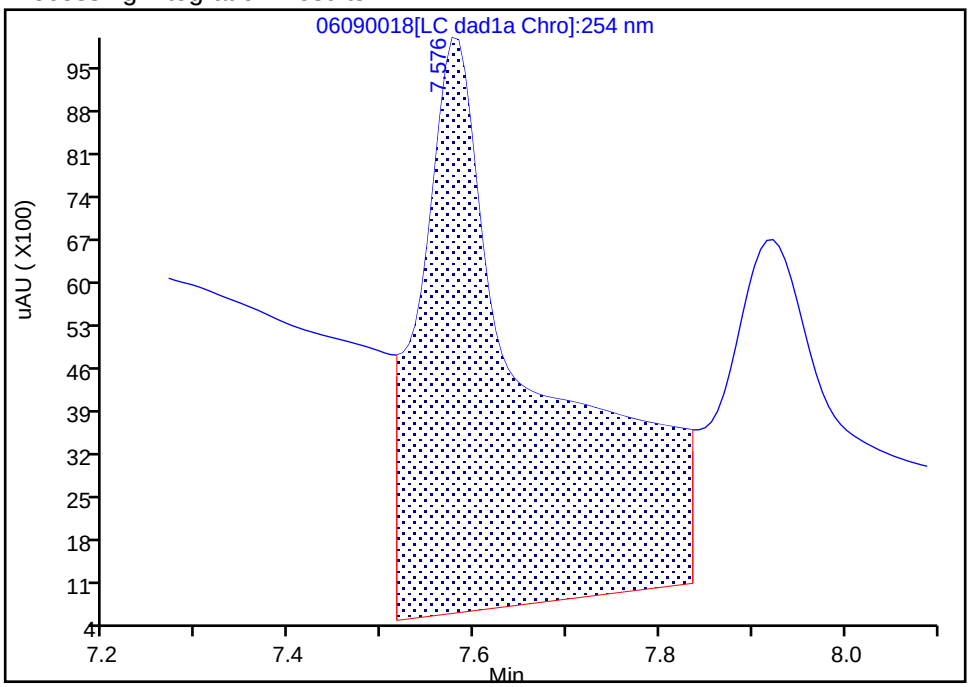
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090018.d				
Injection Date:	09-Jun-2021 19:05:37	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-A-3-C MSD				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

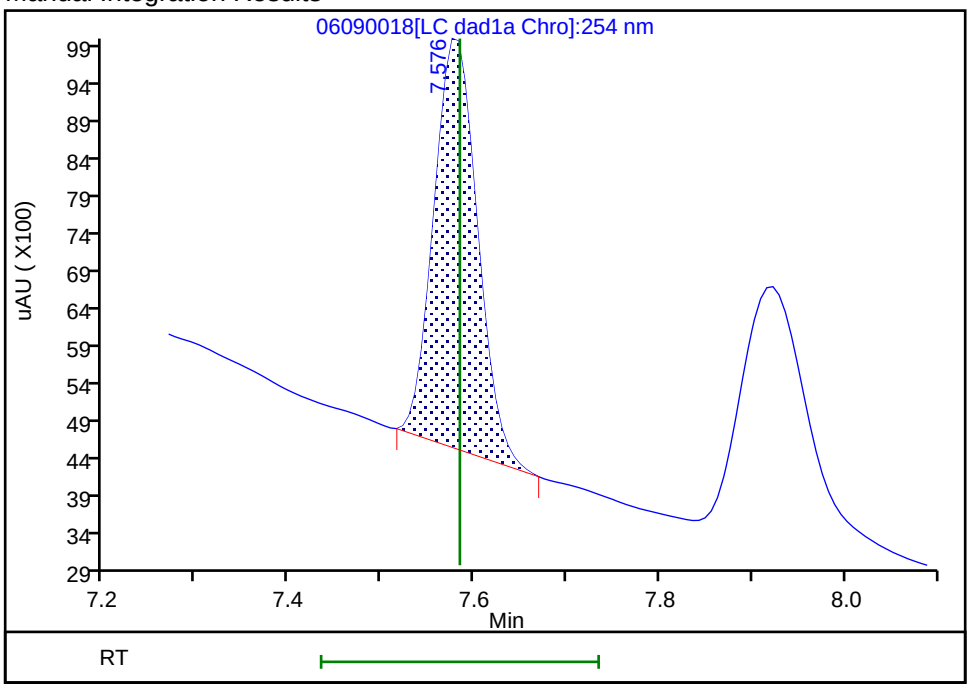
Processing Integration Results

RT: 7.58
Area: 83140
Amount: 0.782410
Amount Units: ug/mL



Manual Integration Results

RT: 7.58
Area: 17916
Amount: 0.168603
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 19:31:31
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-149356-1
SDG No.:
Client Sample ID: OS003-DP06-45 MSD
Lab Sample ID: 280-149356-3 MSD
Matrix: Water
Lab File ID: 06090020.D
Analysis Method: 8330A
Date Collected: 06/02/2021 10:40
Extraction Method: 3535
Date Extracted: 06/08/2021 18:12
Sample wt/vol: 510.4(mL)
Date Analyzed: 06/09/2021 19:51
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 539202
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.04	M	2.0	0.39	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	94		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090020.D				
Lims ID:	280-149356-B-3-B MSD				
Client ID:	OS003-DP06-45				
Sample Type:	MSD				
Inject. Date:	09-Jun-2021 19:51:34	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-B-3-B				
Misc. Info.:	280-0102208-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				
First Level Reviewer: zhangji		Date:	09-Jun-2021 20:42:45		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.492	6.494	-0.002	34715	0.2002	0.1868	M
5 DNX	1	6.806	6.808	-0.002	25306	0.2002	0.1781	M
6 MNX	1	7.219	7.214	0.005	27190	0.2334	0.2086	M
$ 9 1,2-Dinitrobenzene	1	8.506	8.511	-0.005	24032	0.2000	0.1874	

QC Flag Legend

Processing Flags

Review Flags

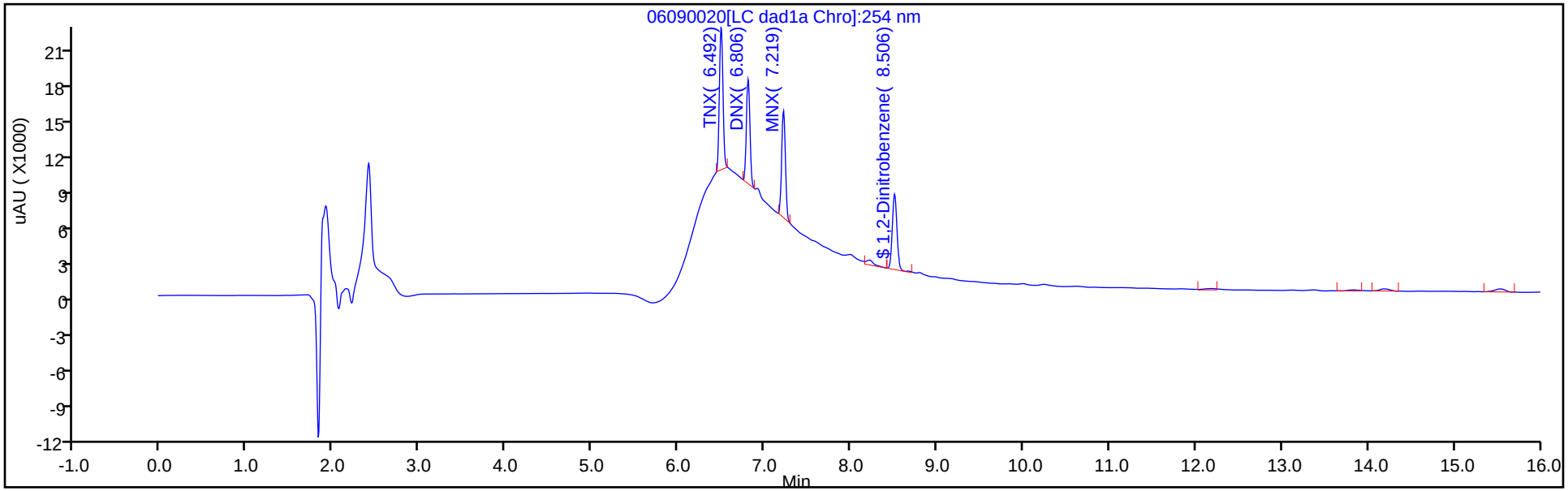
M - Manually Integrated

Report Date: 10-Jun-2021 13:30:06 Chrom Revision: 2.3 13-May-2021 07:57:40

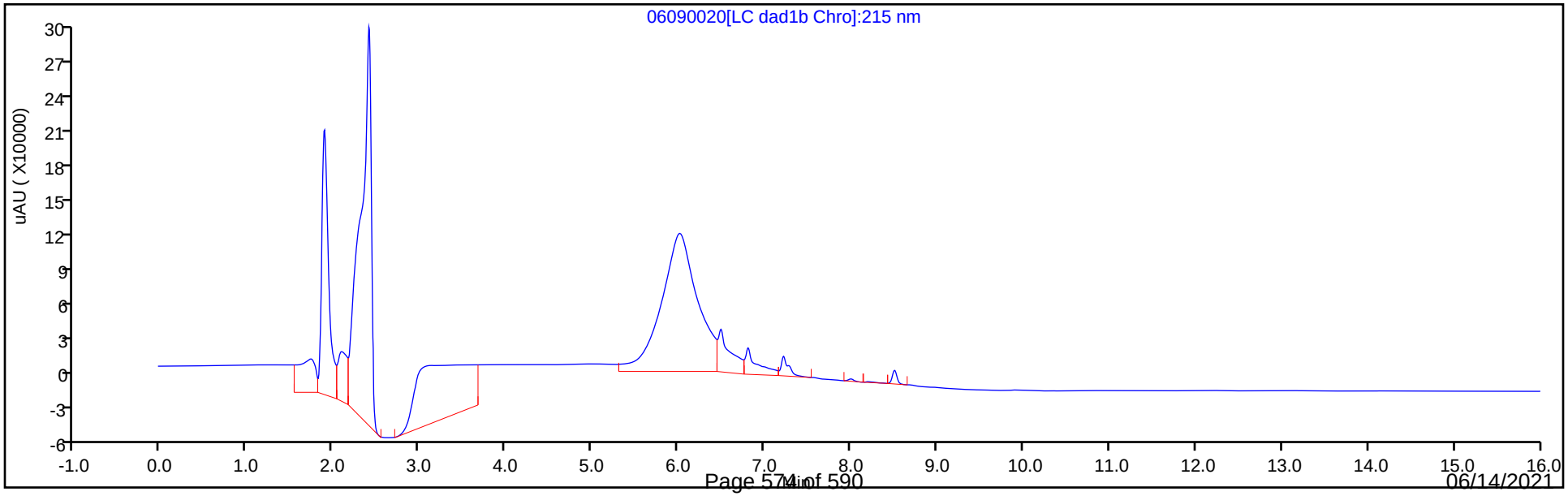
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090020.d				
Injection Date:	09-Jun-2021 19:51:34	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-149356-B-3-B MSD			Worklist Smp#:	20
Client ID:	OS003-DP06-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\06090020.D				
Lims ID:	280-149356-B-3-B MSD				
Client ID:	OS003-DP06-45				
Sample Type:	MSD				
Inject. Date:	09-Jun-2021 19:51:34	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-149356-B-3-B				
Misc. Info.:	280-0102208-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20210609-102208.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	10-Jun-2021 13:30:01	Calib Date:	01-May-2021 21:04:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20210501-101094.b\019-1301.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1633				

First Level Reviewer: zhangji Date: 09-Jun-2021 20:42:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1874	93.72

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

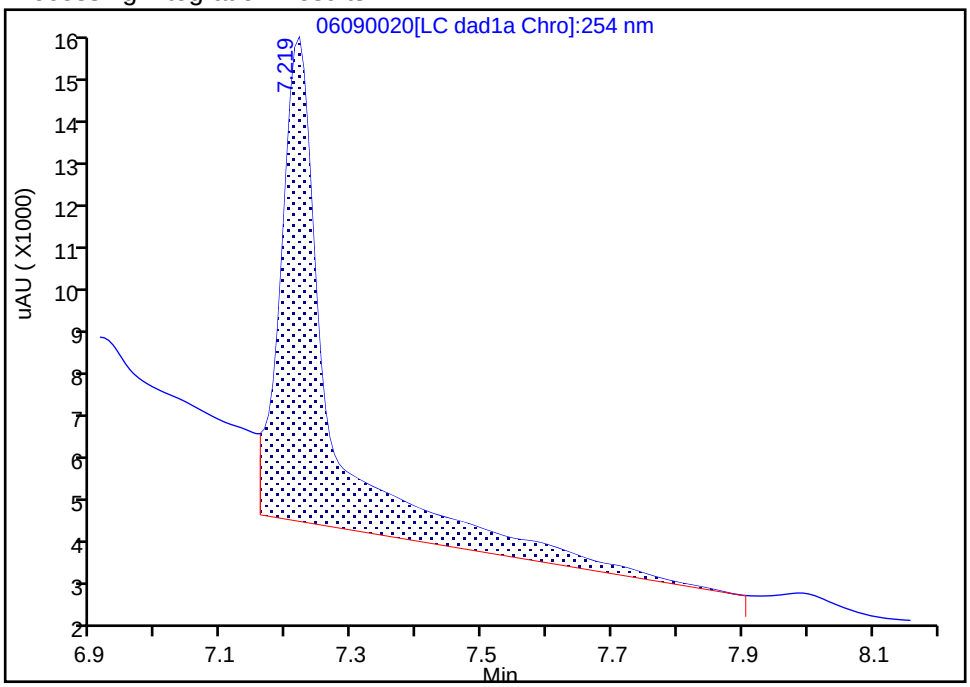
Data File:	\\chromfs\denver\chromdata\chhplc_x\20210609-102208.b\06090020.d				
Injection Date:	09-Jun-2021 19:51:34	Instrument ID:	CHHPLC_X3		
Lims ID:	280-149356-B-3-B MSD				
Client ID:	OS003-DP06-45				
Operator ID:	JZ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

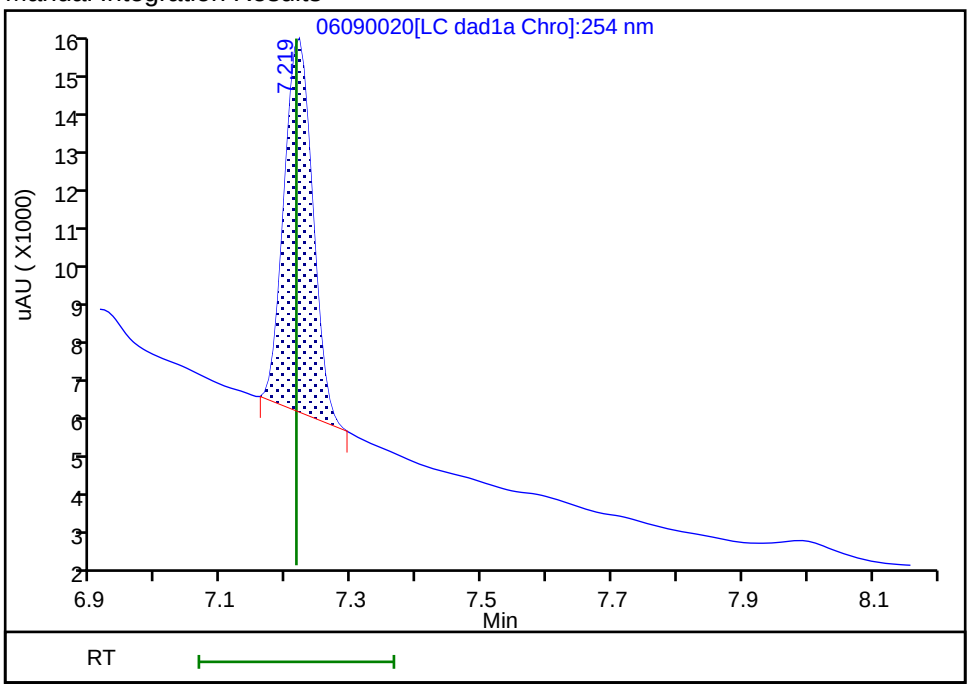
Processing Integration Results

RT: 7.22
Area: 54208
Amount: 0.415896
Amount Units: ug/mL



Manual Integration Results

RT: 7.22
Area: 27190
Amount: 0.208608
Amount Units: ug/mL



Reviewer: zhangji, 09-Jun-2021 20:42:43
Audit Action: Manually Integrated Audit Reason: Baseline

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 03/02/2021 16:33

Analysis Batch Number: 527768 End Date: 03/03/2021 02:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-527768/11		03/02/2021 16:33	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/12		03/02/2021 16:56	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/13		03/02/2021 17:19	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/14		03/02/2021 17:42	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/15		03/02/2021 18:05	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/16		03/02/2021 18:28	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/17		03/02/2021 18:51	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/18		03/02/2021 19:13	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/58		03/02/2021 19:36	1		UltraCarb5uODS 4.6(mm)
ICV 280-527768/19		03/02/2021 19:59	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/20		03/02/2021 20:22	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/21		03/02/2021 20:45	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/22		03/02/2021 21:08	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/23		03/02/2021 21:31	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/24		03/02/2021 21:54	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/25		03/02/2021 22:17	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/26		03/02/2021 22:40	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/27		03/02/2021 23:03	1		UltraCarb5uODS 4.6(mm)
ICV 280-527768/28		03/02/2021 23:26	1		UltraCarb5uODS 4.6(mm)
IC 280-527768/29		03/02/2021 23:49	1	03020029.D	UltraCarb5uODS 4.6(mm)
IC 280-527768/30		03/03/2021 00:12	1	03020030.D	UltraCarb5uODS 4.6(mm)
IC 280-527768/31		03/03/2021 00:35	1	03020031.D	UltraCarb5uODS 4.6(mm)
IC 280-527768/32		03/03/2021 00:58	1	03020032.D	UltraCarb5uODS 4.6(mm)
IC 280-527768/33		03/03/2021 01:21	1	03020033.D	UltraCarb5uODS 4.6(mm)
IC 280-527768/34		03/03/2021 01:44	1	03020034.D	UltraCarb5uODS 4.6(mm)
IC 280-527768/35		03/03/2021 02:07	1	03020035.D	UltraCarb5uODS 4.6(mm)
IC 280-527768/36		03/03/2021 02:30	1	03020036.D	UltraCarb5uODS 4.6(mm)
ICV 280-527768/37		03/03/2021 02:53	1	03020037.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X5 Start Date: 05/01/2021 18:54

Analysis Batch Number: 534620 End Date: 05/02/2021 05:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-534620/10		05/01/2021 18:54	1	010-0501.D	Luna-phenylhex 4.6(mm)
IC 280-534620/11		05/01/2021 19:29	1	011-0601.D	Luna-phenylhex 4.6(mm)
IC 280-534620/12		05/01/2021 20:04	1	012-0701.D	Luna-phenylhex 4.6(mm)
IC 280-534620/13		05/01/2021 20:39	1	013-0801.D	Luna-phenylhex 4.6(mm)
IC 280-534620/14		05/01/2021 21:15	1	014-0901.D	Luna-phenylhex 4.6(mm)
IC 280-534620/15		05/01/2021 21:50	1	015-1001.D	Luna-phenylhex 4.6(mm)
IC 280-534620/16		05/01/2021 22:25	1	016-1101.D	Luna-phenylhex 4.6(mm)
IC 280-534620/17		05/01/2021 23:00	1	017-1201.D	Luna-phenylhex 4.6(mm)
IC 280-534620/18		05/01/2021 23:35	1	018-1301.D	Luna-phenylhex 4.6(mm)
ICV 280-534620/19		05/02/2021 00:10	1	019-1401.D	Luna-phenylhex 4.6(mm)
IC 280-534620/20		05/02/2021 00:45	1	020-1501.D	Luna-phenylhex 4.6(mm)
IC 280-534620/21		05/02/2021 01:20	1	021-1601.D	Luna-phenylhex 4.6(mm)
IC 280-534620/22		05/02/2021 01:55	1	022-1701.D	Luna-phenylhex 4.6(mm)
IC 280-534620/23		05/02/2021 02:30	1	023-1801.D	Luna-phenylhex 4.6(mm)
IC 280-534620/24		05/02/2021 03:05	1	024-1901.D	Luna-phenylhex 4.6(mm)
IC 280-534620/25		05/02/2021 03:41	1	025-2001.D	Luna-phenylhex 4.6(mm)
IC 280-534620/26		05/02/2021 04:16	1	026-2101.D	Luna-phenylhex 4.6(mm)
IC 280-534620/27		05/02/2021 04:51	1	027-2201.D	Luna-phenylhex 4.6(mm)
ICV 280-534620/28		05/02/2021 05:26	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 05/01/2021 18:01

Analysis Batch Number: 534622 End Date: 05/01/2021 21:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-534622/11		05/01/2021 18:01	1	011-0501.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/12		05/01/2021 18:23	1	012-0601.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/13		05/01/2021 18:46	1	013-0701.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/14		05/01/2021 19:09	1	014-0801.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/15		05/01/2021 19:32	1	015-0901.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/16		05/01/2021 19:55	1	016-1001.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/17		05/01/2021 20:18	1	017-1101.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/18		05/01/2021 20:41	1	018-1201.D	UltraCarb5uODS 4.6(mm)
IC 280-534622/19		05/01/2021 21:04	1	019-1301.D	UltraCarb5uODS 4.6(mm)
ICV 280-534622/20		05/01/2021 21:27	1	020-1401.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/09/2021 15:38

Analysis Batch Number: 539202 End Date: 06/10/2021 03:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-539202/7		06/09/2021 15:38	1	06090007.D	UltraCarb5uODS 4.6(mm)
CCV 280-539202/9		06/09/2021 16:01	1	06090009.D	UltraCarb5uODS 4.6(mm)
MB 280-539020/1-A		06/09/2021 16:24	1	06090011.D	UltraCarb5uODS 4.6(mm)
LCS 280-539020/2-A		06/09/2021 16:47	1	06090012.D	UltraCarb5uODS 4.6(mm)
LCS 280-539020/3-A		06/09/2021 17:10	1	06090013.D	UltraCarb5uODS 4.6(mm)
280-149356-1	OS003-DP06-25	06/09/2021 17:33	1	06090014.D	UltraCarb5uODS 4.6(mm)
280-149356-2	OS003-DP06-35	06/09/2021 17:56	1	06090015.D	UltraCarb5uODS 4.6(mm)
280-149356-3	OS003-DP06-45	06/09/2021 18:19	1	06090016.D	UltraCarb5uODS 4.6(mm)
280-149356-3 MS	OS003-DP06-45 MS	06/09/2021 18:42	1	06090017.D	UltraCarb5uODS 4.6(mm)
280-149356-3 MSD	OS003-DP06-45 MSD	06/09/2021 19:05	1	06090018.D	UltraCarb5uODS 4.6(mm)
280-149356-3 MS	OS003-DP06-45 MS	06/09/2021 19:28	1	06090019.D	UltraCarb5uODS 4.6(mm)
280-149356-3 MSD	OS003-DP06-45 MSD	06/09/2021 19:51	1	06090020.D	UltraCarb5uODS 4.6(mm)
CCV 280-539202/21		06/09/2021 20:14	1	06090021.D	UltraCarb5uODS 4.6(mm)
CCV 280-539202/22		06/09/2021 20:37	1	06090022.D	UltraCarb5uODS 4.6(mm)
280-149356-4	OS001-DP06-25	06/09/2021 21:00	1	06090023.D	UltraCarb5uODS 4.6(mm)
280-149356-5	OS001-DP06-35	06/09/2021 21:23	1	06090024.D	UltraCarb5uODS 4.6(mm)
280-149356-6	OS001-DP06-45	06/09/2021 21:46	1	06090025.D	UltraCarb5uODS 4.6(mm)
280-149356-7	NW050R-DP06-20	06/09/2021 22:09	1	06090026.D	UltraCarb5uODS 4.6(mm)
280-149356-8	NW050R-DP06-35	06/09/2021 22:32	1	06090027.D	UltraCarb5uODS 4.6(mm)
280-149356-9	NW050R-DP06-60	06/09/2021 22:55	1	06090028.D	UltraCarb5uODS 4.6(mm)
280-149356-10	OS501-DP06-25	06/09/2021 23:18	1	06090029.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/09/2021 23:41	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/10/2021 00:04	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/10/2021 00:27	1		UltraCarb5uODS 4.6(mm)
CCV 280-539202/33		06/10/2021 00:50	1	06090033.D	UltraCarb5uODS 4.6(mm)
CCV 280-539202/34		06/10/2021 01:13	1	06090034.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/10/2021 01:36	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/10/2021 01:59	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/10/2021 02:22	1		UltraCarb5uODS 4.6(mm)
CCV 280-539202/38		06/10/2021 02:45	1		UltraCarb5uODS 4.6(mm)
CCV 280-539202/39		06/10/2021 03:08	1		UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/10/2021 16:01

Analysis Batch Number: 539383 End Date: 06/10/2021 17:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-539383/7		06/10/2021 16:01	1	06100007.D	UltraCarb5uODS 4.6(mm)
280-149356-4 DL	OS001-DP06-25 DL	06/10/2021 16:24	5	06100011.D	UltraCarb5uODS 4.6(mm)
280-149356-10 DL	OS501-DP06-25 DL	06/10/2021 16:47	5	06100012.D	UltraCarb5uODS 4.6(mm)
CCV 280-539383/13		06/10/2021 17:10	1	06100013.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Instrument ID: CHHPLC_X5 Start Date: 06/10/2021 19:02

Analysis Batch Number: 539386 End Date: 06/11/2021 04:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-539386/11		06/10/2021 19:02	1	007-0901.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/10/2021 19:37	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/10/2021 20:12	1		Luna-phenylhex 4.6(mm)
280-149356-4	OS001-DP06-25	06/10/2021 20:47	1	06100014.D	Luna-phenylhex 4.6(mm)
280-149356-4 DL	OS001-DP06-25 DL	06/10/2021 21:22	5	06100015.D	Luna-phenylhex 4.6(mm)
280-149356-5	OS001-DP06-35	06/10/2021 21:57	1	06100016.D	Luna-phenylhex 4.6(mm)
280-149356-6	OS001-DP06-45	06/10/2021 22:32	1	06100017.D	Luna-phenylhex 4.6(mm)
280-149356-8	NW050R-DP06-35	06/10/2021 23:07	1	06100018.D	Luna-phenylhex 4.6(mm)
280-149356-10	OS501-DP06-25	06/10/2021 23:42	1	06100019.D	Luna-phenylhex 4.6(mm)
280-149356-10 DL	OS501-DP06-25 DL	06/11/2021 00:17	5	06100020.D	Luna-phenylhex 4.6(mm)
CCV 280-539386/21		06/11/2021 00:52	1	06100021.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/11/2021 01:27	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/11/2021 02:37	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/11/2021 03:12	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/11/2021 03:47	1		Luna-phenylhex 4.6(mm)
CCV 280-539386/27		06/11/2021 04:22	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Batch Number: 539020 Batch Start Date: 06/08/21 18:12 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/08/21 20:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00108	8330_OP_DMT 00011
MB 280-539020/1		3535, 8330A				500 mL	5 mL		
LCS 280-539020/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-539020/3		3535, 8330A				500 mL	5 mL		0.1 mL
280-149356-A-1	OS003-DP06-25	3535, 8330A	T	793.6 g	286.8 g	506.8 mL	5 mL		
280-149356-B-2	OS003-DP06-35	3535, 8330A	T	775.8 g	286.2 g	489.6 mL	5 mL		
280-149356-A-3	OS003-DP06-45	3535, 8330A	T	788.7 g	288.1 g	500.6 mL	5 mL		
280-149356-A-3 MS	OS003-DP06-45	3535, 8330A	T	776.3 g	287.6 g	488.7 mL	5 mL	0.1 mL	
280-149356-A-3 MSD	OS003-DP06-45	3535, 8330A	T	783.9 g	287.0 g	496.9 mL	5 mL	0.1 mL	
280-149356-B-3 MS	OS003-DP06-45	3535, 8330A	T	790.5 g	288.4 g	502.1 mL	5 mL		0.1 mL
280-149356-B-3 MSD	OS003-DP06-45	3535, 8330A	T	798.9 g	288.5 g	510.4 mL	5 mL		0.1 mL
280-149356-A-4	OS001-DP06-25	3535, 8330A	T	793.4 g	289.3 g	504.1 mL	5 mL		
280-149356-A-5	OS001-DP06-35	3535, 8330A	T	795.4 g	287.4 g	508 mL	5 mL		
280-149356-A-6	OS001-DP06-45	3535, 8330A	T	790.8 g	287.2 g	503.6 mL	5 mL		
280-149356-A-7	NW050R-DP06-20	3535, 8330A	T	799.1 g	286.3 g	512.8 mL	5 mL		
280-149356-A-8	NW050R-DP06-35	3535, 8330A	T	779.9 g	286.2 g	493.7 mL	5 mL		
280-149356-A-9	NW050R-DP06-60	3535, 8330A	T	791.1 g	288.6 g	502.5 mL	5 mL		
280-149356-A-10	OS501-DP06-25	3535, 8330A	T	789.5 g	287.9 g	501.6 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00124	AnalysisComment				
MB 280-539020/1		3535, 8330A		0.1 mL					
LCS 280-539020/2		3535, 8330A		0.1 mL	8330 LCS				
LCS 280-539020/3		3535, 8330A		0.1 mL	DMT LCS				
280-149356-A-1	OS003-DP06-25	3535, 8330A	T	0.1 mL	Filtered				
280-149356-B-2	OS003-DP06-35	3535, 8330A	T	0.1 mL	Filtered				
280-149356-A-3	OS003-DP06-45	3535, 8330A	T	0.1 mL	Filtered				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Batch Number: 539020 Batch Start Date: 06/08/21 18:12 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/08/21 20:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00124	AnalysisComment				
280-149356-A-3 MS	OS003-DP06-45	3535, 8330A	T	0.1 mL	8330 LCS Filtered				
280-149356-A-3 MSD	OS003-DP06-45	3535, 8330A	T	0.1 mL	8330 LCS Filtered				
280-149356-B-3 MS	OS003-DP06-45	3535, 8330A	T	0.1 mL	DMT LCS Filtered				
280-149356-B-3 MSD	OS003-DP06-45	3535, 8330A	T	0.1 mL	DMT LCS Filtered				
280-149356-A-4	OS001-DP06-25	3535, 8330A	T	0.1 mL	Filtered				
280-149356-A-5	OS001-DP06-35	3535, 8330A	T	0.1 mL	Filtered				
280-149356-A-6	OS001-DP06-45	3535, 8330A	T	0.1 mL	Filtered				
280-149356-A-7	NW050R-DP06-20	3535, 8330A	T	0.1 mL	Filtered				
280-149356-A-8	NW050R-DP06-35	3535, 8330A	T	0.1 mL	Filtered				
280-149356-A-9	NW050R-DP06-60	3535, 8330A	T	0.1 mL	Filtered				
280-149356-A-10	OS501-DP06-25	3535, 8330A	T	0.1 mL	Filtered				

Batch Notes	
Acid ID	Ca2Cl_Sol_00076
Acid Name	Ca2Cl
Balance ID	24350888
Batch Comment	DV-OP-0017; Mantel: B/C (QC is on B)
First End time	06/08/2021 19:57
Pipette/Syringe/Dispenser ID	JiJi, Soot
Rinse Solvent Lot	0.1%AAinACN_00164
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	Acetonitrile_00054
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	KA/DL
Analyst ID - Spike Witness Analyst	Reviewer:TH
First Start time	06/08/2021 18:29

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-149356-1

SDG No.:

Batch Number: 539020 Batch Start Date: 06/08/21 18:12 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/08/21 20:38

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

06/14/2021

Project Name: CHAAP 2019

AECOM Project Number: 60565355

Project Location: Grand Island, Nebraska

AECOM Project Manager: Dean Converse

Sampler(s): JO KD RE

Bill to: Brice Engineering

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives (MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Remarks (standard TAT)
6-2-21	0830		X	OS003-DP06-25	AQ	2	A	X							6°C
6-2-21	0955		X	OS003-DP06-35	AQ	2	A	X							
6-2-21	1040		X	OS003-DP06-45	AQ	6	A	X							+ MS/MSD

280-149356 Chain of Custody

Signatures	Date	Time
Relinquished by:	6-2-21	1700
Received by:		
Relinquished by:		
Received for Laboratory by:	6/3/21	0945

Shipping Details

Method of Shipment: Federal Express

Airbill Number: 5018 6641 0898

Lab Address:
TestAmerica Lab, Inc.
Attn: Patrick McEntee
4955 Yarrow St.
Arvada, CO 80002
(303) 736-0107

Special Instructions

* Filter groundwater sample before analyzing for DOC

(A) (2) 500mL Ambers (Explosives)
(B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3)
(C) (1) 250mL HDPE (SO_4, Alkalinity)
(D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide)
(E) (1) 250mL Amber (DOC)*
(F) (3) 40 mL VOA w/ HCl (Methane)

TAL/Brice Project #: 28017805

White copy - Laboratory Yellow copy - Laboratory Pink copy - Sampler

4.9, 4.2 CF +0.4 IR11

2020559

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

06/14/2021

Project Name: CHAAP 2019

AECOM Project Number: 60565355

Project Location: Grand Island, Nebraska

AECOM Project Manager: Dean Converse

Sampler(s): JO KD RE

Bill to: Brice Engineering

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Remarks (standard TAT)
6-2-21	1145		X	OS001-DP06-25	AQ	2	A	X							6°C
6-2-21	1220		X	OS001-DP06-35	AQ	2	A	X							
6-2-21	1305		X	OS001-DP06-45	AQ	2	A	X							
6-1-21	1320		X	NW050R-DP06-20	AQ	2	A	X							
6-1-21	1405		X	NW050R-DP06-35	AQ	2	A	X							
6-1-21	1500		X	NW050R-DP06-60	AQ	2	A	X							
6-2-21	0800		X	OS501-DP06-25	AQ	2	A	X							

Signatures	Date	Time
Relinquished by:	6-2-21	1700
Received by:		
Relinquished by:		
Received for Laboratory by:	6/3/21	0945

Shipping Details

Method of Shipment: Federal Express

Airbill Number: 5018 6641 0887

Lab Address:
TestAmerica Lab, Inc.
Attn: Patrick McEntee
4955 Yarrow St.
Arvada, CO 80002
(303) 736-0107

Special Instructions

* Filter groundwater sample before analyzing for DOC

(A) (2) 500mL Ambers (Explosives)
(B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3)
(C) (1) 250mL HDPE (SO_4, Alkalinity)
(D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide)
(E) (1) 250mL Amber (DOC)*
(F) (3) 40 mL VOA w/ HCl (Methane)

TAL/Brice Project #: 28017805

White copy - Laboratory Yellow copy - Laboratory Pink copy - Sampler

2020556

BRICE ENGINEERING (WATER TREATMENT
7502 13TH ST W

GRAND ISLAND, NE 68803
UNITED STATES US

ACTWGT: 10.00 LB MAN
CAD: 0562071/CAFE3409

TO

EUROFINS TESTAMERICA DENVER
4955 YARROW STREET

ARVADA CO 800024517
(303) 736-0100
REF: S180-71065

4.9

RMA:

FedEx Express

FedEx
TRK# 0221 5018 6641 0898

THU - 03 JUN 10:30A
PRIORITY OVERNIGHT

XH LAAA

80002
CO-US DEN

#3676756 06/02 56DJ3/B387/FE4A

56DC3/71DC/05A2

TO

EUROFINS TESTAMERICA DENVER
4955 YARROW STREET

ARVADA CO 800024517
(303) 736-0100
REF: S180-71065

4.2

RMA:

FedEx
TRK# 0221 5018 6641 0887

THU - 03 JUN 10:
PRIORITY OVERNI

XH LAAA

80
CO-US

#3676756 06/02 56DJ3/B387/FE4A

280-149356 Waybill

Login Sample Receipt Checklist

Client: Brice Environmental Services, Corp

Job Number: 280-149356-1

Login Number: 149356
List Number: 1
Creator: Dubicki, Adam L

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	