ANALYTICAL REPORT

Job Number: 280-137006-1

Job Description: Cornhusker (CHAAP)

For:
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Attention: Corey Schwabenlander

Approved for release.
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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 7

Default Detection Limits 11

Surrogate Summary 12

QC Sample Results 13

QC Association 20

Chronicle 22

Certification Summary 24

Method Summary 25

Sample Summary 26

Manual Integration Summary 27

Reagent Traceability 62

COAs 68

Organic Sample Data 196

HPLC/IC 196

8330A_DOD5 196

8330A_DOD5 QC Summary 197

8330A_DOD5 Sample Data 231

Standards Data 400

8330A_DOD5 ICAL Data 400

8330A_DOD5 CCAL Data 582

Raw QC Data 840

Table of Contents

8330A_DOD5 Blank Data 840
8330A_DOD5 LCS/LCSD Data 860
8330A_DOD5 MS/MSD Data 901
8330A_DOD5 Run Logs 948
8330A_DOD5 Prep Data 961
Shipping and Receiving Documents 967
Client Chain of Custody 968
Sample Receipt Checklist 970

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.
H	Sample was prepped or analyzed beyond the specified holding time
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: 280-137006-1

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 5/28/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1º C.

NITROAROMATICS AND NITRAMINES (HPLC)
Samples OS001-DP03-25 (280-137006-1), OS501-DP03-25 (280-137006-2), OS001-DP03-35 (280-137006-3) and OS001-DP03-45 (280-137006-4) were analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with 8330A. The samples were prepared on 06/01/2020, 06/02/2020 and 06/16/2020 and analyzed on 06/12/2020, 06/13/2020, 06/17/2020, 06/18/2020 and 06/19/2020.

Due to analyst oversight, the initial extraction of the client requested MS/MSD OS001-DP03-45 (280-137006-4) was spiked with MNX, but not the spike mix containing the routine analytes. The parent/MS/MSD were re-extracted for the routine analytes outside of the holding time in prep batch 498875.

Samples OS001-DP03-25 (280-137006-1)[10X], OS501-DP03-25 (280-137006-2)[10X], OS001-DP03-35 (280-137006-3)[10X] and OS001-DP03-45 (280-137006-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

1,2-Dinitrobenzene failed the surrogate recovery criteria high for OS001-DP03-45 (280-137006-4). The sample was diluted beyound the ability to calculate a meaningful recovery. Refer to the QC report for details.

Surrogate recovery for the following sample was outside control limits: OS001-DP03-45 (280-137006-4[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

3-Nitrotoluene failed the recovery criteria low for the MS of sample OS001-DP03-45MS (280-137006-4) in batch 280-499165. Tetryl failed the recovery criteria high. 2,4,6-Trinitrotoluene, Tetryl and 1,3,5-Trinitrobenzene failed the recovery criteria high for the MSD of sample OS001-DP03-45MSD (280-137006-4) in batch 280-499165. 3-Nitrotoluene exceeded the RPD limit. Refer to the QC report for details.

The %RPD between the primary and confirmation column exceeded 40% for 1,3,5-Trinitrobenzene for the following sample: OS501-DP03-25 (280-137006-2). The results from both columns has been reported and qualified in accordance with the laboratory's QAS.

The %RPD between the primary and confirmation column exceeded 40% for RDX for the following sample:OS001-DP03-35 (280-137006-3). The results from both columns has been reported and qualified in accordance with the laboratory's QAS.

The %RPD between the primary and confirmation column exceeded 40% for RDX for the following sample:OS001-DP03-45MS (280-137006-4). The results from both columns has been reported and qualified in accordance with the laboratory's QAS.

The following samples required filtration to reduce matrix interferences: OS501-DP03-25 (280-137006-2) and OS001-DP03-35 (280-137006-3).

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: 280-137006-1

Client Sample ID: OS001-DP03-25 — Lab Sample ID: 280-137006-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.41	M	0.22	0.21	0.090	ug/L	1		8330A	Total/NA
RDX	0.19	J M	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene - DL	32	D	1.2	1.1	0.48	ug/L	10		8330A	Total/NA

Client Sample ID: OS501-DP03-25 — Lab Sample ID: 280-137006-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.35	M J1	0.23	0.22	0.094	ug/L	1		8330A	Total/NA
1,3,5-Trinitrobenzene	0.57	J1	0.23	0.22	0.094	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene - DL	29	D	1.2	1.1	0.50	ug/L	10		8330A	Total/NA

Client Sample ID: OS001-DP03-35 — Lab Sample ID: 280-137006-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	11		0.12	0.11	0.048	ug/L	1		8330A	Total/NA
RDX	0.21	J J1	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
RDX	0.33	J1	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
1,3,5-Trinitrobenzene - DL	31	D	2.2	2.1	0.90	ug/L	10		8330A	Total/NA

Client Sample ID: OS001-DP03-45 — Lab Sample ID: 280-137006-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	2.2	M	0.12	0.11	0.048	ug/L	1		8330A	Total/NA
RDX	0.17	J M	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
1,3,5-Trinitrobenzene - DL	49	D Q	2.2	2.1	0.90	ug/L	10		8330A	Total/NA
2,4,6-Trinitrotoluene - RE	1.9	H J1	0.12	0.11	0.048	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene - RE	0.59	H	0.12	0.11	0.054	ug/L	1		8330A	Total/NA
RDX - RE	0.16	J H M J1	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
RDX - RE	0.32	H J1	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
1,3,5-Trinitrobenzene - REDL	37	H J1 D	2.2	2.1	0.89	ug/L	10		8330A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 280-137006-1

Client Sample ID: OS001-DP03-25

Lab Sample ID: 280-137006-1

Date Collected: 05/26/20 14:10
Matrix: Water
Date Received: 05/28/20 09:45

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.41**	**M**	0.22	0.21	0.090	ug/L		06/12/20 01:42	1
1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039	ug/L		06/12/20 01:42	1
2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029	ug/L		06/12/20 01:42	1
2,6-Dinitrotoluene	0.086	U M	0.11	0.086	0.043	ug/L		06/12/20 01:42	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.054	ug/L		06/12/20 01:42	1
2-Nitrotoluene	0.21	U M	0.22	0.21	0.091	ug/L		06/12/20 01:42	1
3-Nitrotoluene	0.43	U	0.43	0.43	0.21	ug/L		06/12/20 01:42	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062	ug/L		06/12/20 01:42	1
4-Nitrotoluene	0.43	U	0.44	0.43	0.11	ug/L		06/12/20 01:42	1
HMX	0.21	U	0.22	0.21	0.094	ug/L		06/12/20 01:42	1
MNX	0.43	U	2.1	0.43	0.16	ug/L		06/12/20 23:42	1
Nitrobenzene	0.21	U	0.22	0.21	0.097	ug/L		06/12/20 01:42	1
RDX	**0.19**	**J M**	0.22	0.21	0.055	ug/L		06/12/20 01:42	1
Tetryl	0.11	U M	0.12	0.11	0.034	ug/L		06/12/20 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*97*	*M*	*83 - 119*	*06/01/20 10:20*	*06/12/20 01:42*	*1*
1,2-Dinitrobenzene	*90*		*83 - 119*	*06/01/20 10:20*	*06/12/20 23:42*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,6-Trinitrotoluene	**32**	**D**	1.2	1.1	0.48	ug/L		06/12/20 15:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*113*	*M D*	*83 - 119*	*06/01/20 10:20*	*06/12/20 15:44*	*10*
1,2-Dinitrobenzene	*80*	*Q D*	*83 - 119*	*06/01/20 10:20*	*06/13/20 02:02*	*10*

Client Sample ID: OS501-DP03-25

Lab Sample ID: 280-137006-2

Date Collected: 05/26/20 08:00
Matrix: Water
Date Received: 05/28/20 09:45

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.35**	**M J1**	0.23	0.22	0.094	ug/L		06/12/20 20:43	1
1,3,5-Trinitrobenzene	**0.57**	**J1**	0.23	0.22	0.094	ug/L		06/17/20 22:00	1
1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.041	ug/L		06/12/20 20:43	1
2,4-Dinitrotoluene	0.089	U	0.11	0.089	0.031	ug/L		06/12/20 20:43	1
2,6-Dinitrotoluene	0.089	U	0.11	0.089	0.045	ug/L		06/12/20 20:43	1
2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.057	ug/L		06/12/20 20:43	1
2-Nitrotoluene	0.22	U	0.23	0.22	0.096	ug/L		06/12/20 20:43	1
3-Nitrotoluene	0.45	U M	0.45	0.45	0.22	ug/L		06/12/20 20:43	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.17	0.13	0.064	ug/L		06/12/20 20:43	1
4-Nitrotoluene	0.45	U M	0.46	0.45	0.11	ug/L		06/12/20 20:43	1
HMX	0.22	U	0.23	0.22	0.098	ug/L		06/12/20 20:43	1
MNX	0.45	U M	2.2	0.45	0.17	ug/L		06/12/20 20:43	1
Nitrobenzene	0.22	U	0.23	0.22	0.10	ug/L		06/12/20 20:43	1
RDX	0.22	U	0.23	0.22	0.058	ug/L		06/12/20 20:43	1
Tetryl	0.11	U M	0.12	0.11	0.036	ug/L		06/12/20 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*97*	*M*	*83 - 119*	*06/02/20 12:47*	*06/12/20 20:43*	*1*

Client Sample ID: OS501-DP03-25

Lab Sample ID: 280-137006-2

Date Collected: 05/26/20 08:00
Matrix: Water
Date Received: 05/28/20 09:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	96		83 - 119	06/02/20 12:47	06/17/20 22:00	1

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,6-Trinitrotoluene	**29**	**D**	1.2	1.1	0.50	ug/L		06/17/20 19:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	116	M	83 - 119	06/02/20 12:47	06/17/20 19:12	10
1,2-Dinitrobenzene	88	M	83 - 119	06/02/20 12:47	06/17/20 22:35	10

Client Sample ID: OS001-DP03-35

Lab Sample ID: 280-137006-3

Date Collected: 05/26/20 15:05
Matrix: Water
Date Received: 05/28/20 09:45

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039	ug/L		06/12/20 21:06	1
2,4,6-Trinitrotoluene	**11**		0.12	0.11	0.048	ug/L		06/12/20 21:06	1
2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029	ug/L		06/12/20 21:06	1
2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.043	ug/L		06/12/20 21:06	1
2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.054	ug/L		06/12/20 21:06	1
2-Nitrotoluene	0.21	U	0.22	0.21	0.091	ug/L		06/12/20 21:06	1
3-Nitrotoluene	0.43	U M	0.43	0.43	0.21	ug/L		06/12/20 21:06	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062	ug/L		06/12/20 21:06	1
4-Nitrotoluene	0.43	U	0.44	0.43	0.11	ug/L		06/12/20 21:06	1
HMX	0.21	U	0.22	0.21	0.093	ug/L		06/12/20 21:06	1
MNX	0.43	U M	2.1	0.43	0.16	ug/L		06/12/20 21:06	1
Nitrobenzene	0.21	U	0.22	0.21	0.097	ug/L		06/12/20 21:06	1
RDX	**0.21**	**J J1**	0.22	0.21	0.055	ug/L		06/12/20 21:06	1
RDX	**0.33**	**J1**	0.22	0.21	0.055	ug/L		06/17/20 23:10	1
Tetryl	0.11	U M	0.12	0.11	0.034	ug/L		06/12/20 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	83		83 - 119	06/02/20 12:47	06/12/20 21:06	1
1,2-Dinitrobenzene	97		83 - 119	06/02/20 12:47	06/17/20 23:10	1

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**31**	**D**	2.2	2.1	0.90	ug/L		06/17/20 19:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 119	06/02/20 12:47	06/17/20 19:35	10
1,2-Dinitrobenzene	89	M	83 - 119	06/02/20 12:47	06/17/20 23:45	10

Client Sample ID: OS001-DP03-45

Lab Sample ID: 280-137006-4

Date Collected: 05/26/20 15:45
Matrix: Water
Date Received: 05/28/20 09:45

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039	ug/L		06/12/20 02:05	1

Client Sample ID: OS001-DP03-45

Date Collected: 05/26/20 15:45
Date Received: 05/28/20 09:45

Lab Sample ID: 280-137006-4

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,6-Trinitrotoluene	**2.2**	**M**	0.12	0.11	0.048	ug/L		06/12/20 02:05	1
2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029	ug/L		06/12/20 02:05	1
2,6-Dinitrotoluene	0.085	U M	0.11	0.085	0.043	ug/L		06/12/20 02:05	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.054	ug/L		06/12/20 02:05	1
2-Nitrotoluene	0.21	U	0.22	0.21	0.091	ug/L		06/12/20 02:05	1
3-Nitrotoluene	0.43	U	0.43	0.43	0.21	ug/L		06/12/20 02:05	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061	ug/L		06/12/20 02:05	1
4-Nitrotoluene	0.43	U	0.44	0.43	0.11	ug/L		06/13/20 00:17	1
HMX	0.21	U	0.22	0.21	0.093	ug/L		06/12/20 02:05	1
MNX	0.43	U M	2.1	0.43	0.16	ug/L		06/12/20 02:05	1
Nitrobenzene	0.21	U	0.22	0.21	0.097	ug/L		06/12/20 02:05	1
RDX	**0.17**	**J M**	0.22	0.21	0.055	ug/L		06/12/20 02:05	1
Tetryl	0.11	U	0.12	0.11	0.034	ug/L		06/13/20 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*94*		*83 - 119*	*06/01/20 10:20*	*06/12/20 02:05*	*1*
1,2-Dinitrobenzene	*96*		*83 - 119*	*06/01/20 10:20*	*06/13/20 00:17*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**49**	**D Q**	2.2	2.1	0.90	ug/L		06/12/20 16:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*124*	*Q D*	*83 - 119*	*06/01/20 10:20*	*06/12/20 16:07*	*10*
1,2-Dinitrobenzene	*47*	*Q D*	*83 - 119*	*06/01/20 10:20*	*06/13/20 02:37*	*10*

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.11	U H	0.12	0.11	0.039	ug/L		06/17/20 23:25	1
2,4,6-Trinitrotoluene	**1.9**	**H J1**	0.12	0.11	0.048	ug/L		06/17/20 23:25	1
2,4-Dinitrotoluene	0.085	U H	0.11	0.085	0.029	ug/L		06/17/20 23:25	1
2,6-Dinitrotoluene	0.085	U H	0.11	0.085	0.042	ug/L		06/17/20 23:25	1
2-Amino-4,6-dinitrotoluene	**0.59**	**H**	0.12	0.11	0.054	ug/L		06/17/20 23:25	1
2-Nitrotoluene	0.21	U H	0.22	0.21	0.091	ug/L		06/17/20 23:25	1
3-Nitrotoluene	0.42	U H J1	0.42	0.42	0.21	ug/L		06/17/20 23:25	1
4-Amino-2,6-dinitrotoluene	0.13	U H	0.16	0.13	0.061	ug/L		06/17/20 23:25	1
4-Nitrotoluene	0.42	U H M	0.43	0.42	0.11	ug/L		06/17/20 23:25	1
HMX	0.21	U H	0.22	0.21	0.093	ug/L		06/17/20 23:25	1
MNX	0.42	U H M	2.1	0.42	0.16	ug/L		06/17/20 23:25	1
Nitrobenzene	0.21	U H M	0.22	0.21	0.096	ug/L		06/17/20 23:25	1
RDX	**0.16**	**J H M J1**	0.22	0.21	0.055	ug/L		06/17/20 23:25	1
RDX	**0.32**	**H J1**	0.22	0.21	0.055	ug/L		06/19/20 10:45	1
Tetryl	0.11	U H J1 M	0.12	0.11	0.034	ug/L		06/17/20 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*96*		*83 - 119*	*06/16/20 10:10*	*06/17/20 23:25*	*1*
1,2-Dinitrobenzene	*101*		*83 - 119*	*06/16/20 10:10*	*06/19/20 10:45*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**37**	**H J1 D**	2.2	2.1	0.89	ug/L		06/18/20 00:34	10

Client Sample ID: OS001-DP03-45

Date Collected: 05/26/20 15:45
Date Received: 05/28/20 09:45

Lab Sample ID: 280-137006-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	95		83 - 119	06/16/20 10:10	06/18/20 00:34	10
1,2-Dinitrobenzene	95		83 - 119	06/16/20 10:10	06/19/20 12:30	10

Default Detection Limits

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

Job ID: 280-137006-1

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: 280-137006-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

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

Lab Sample ID	Client Sample ID	12DNB1 (83-119)
280-137006-1	OS001-DP03-25	97 M
280-137006-1 - DL	OS001-DP03-25	113 M D
280-137006-2	OS501-DP03-25	97 M
280-137006-2 - DL	OS501-DP03-25	116 M
280-137006-3	OS001-DP03-35	83
280-137006-3 - DL	OS001-DP03-35	102
280-137006-4	OS001-DP03-45	94
280-137006-4 - DL	OS001-DP03-45	124 Q D
280-137006-4 - RE	OS001-DP03-45	96
280-137006-4 - REDL	OS001-DP03-45	95
280-137006-4 MS	OS001-DP03-45	89
280-137006-4 MS - RE	OS001-DP03-45	91
280-137006-4 MS - REDL	OS001-DP03-45	97
280-137006-4 MSD	OS001-DP03-45	71 Q
280-137006-4 MSD - RE	OS001-DP03-45	97
280-137006-4 MSD - REDL	OS001-DP03-45	104
LCS 280-496861/2-A	Lab Control Sample	95
LCS 280-496861/4-A	Lab Control Sample	95
LCS 280-497003/2-A	Lab Control Sample	99
LCS 280-497003/4-A	Lab Control Sample	102
LCS 280-498875/2-A	Lab Control Sample	95
LCS 280-498875/3-A	Lab Control Sample	94
LCSD 280-496861/3-A	Lab Control Sample Dup	96
LCSD 280-497003/3-A	Lab Control Sample Dup	99
LCSD 280-497003/5-A	Lab Control Sample Dup	103
MB 280-496861/1-A	Method Blank	94
MB 280-497003/1-A	Method Blank	95
MB 280-498875/1-A	Method Blank	100

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)
280-137006-1	OS001-DP03-25	90
280-137006-1 - DL	OS001-DP03-25	80 Q D
280-137006-2	OS501-DP03-25	96
280-137006-2 - DL	OS501-DP03-25	88 M
280-137006-3	OS001-DP03-35	97
280-137006-3 - DL	OS001-DP03-35	89 M
280-137006-4	OS001-DP03-45	96
280-137006-4 - DL	OS001-DP03-45	47 Q D
280-137006-4 - RE	OS001-DP03-45	101
280-137006-4 - REDL	OS001-DP03-45	95

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

QC Sample Results

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

Job ID: 280-137006-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-496861/1-A
Matrix: Water
Analysis Batch: 498536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496861

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		06/12/20 14:35	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/12/20 14:35	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/12/20 14:35	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/12/20 14:35	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/12/20 14:35	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/12/20 14:35	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		06/12/20 14:35	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.20	ug/L		06/12/20 14:35	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/12/20 14:35	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/12/20 14:35	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		06/12/20 14:35	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/12/20 14:35	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/12/20 14:35	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/12/20 14:35	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/12/20 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*94*		*83 - 119*	*06/01/20 10:20*	*06/12/20 14:35*	*1*

Lab Sample ID: LCS 280-496861/2-A
Matrix: Water
Analysis Batch: 498360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	2.11		ug/L		105	73 - 125
1,3-Dinitrobenzene	2.00	2.00		ug/L		100	78 - 120
2,4,6-Trinitrotoluene	2.00	2.09		ug/L		105	71 - 123
2,4-Dinitrotoluene	2.00	1.85		ug/L		93	78 - 120
2,6-Dinitrotoluene	2.00	2.03		ug/L		101	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.81		ug/L		90	79 - 120
2-Nitrotoluene	2.00	1.62		ug/L		81	70 - 127
3-Nitrotoluene	2.00	1.80		ug/L		90	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.68		ug/L		84	76 - 125
4-Nitrotoluene	2.00	1.58		ug/L		79	71 - 127
HMX	2.00	2.00		ug/L		100	65 - 135
Nitrobenzene	2.00	1.88		ug/L		94	65 - 134
RDX	2.00	1.96		ug/L		98	68 - 130
Tetryl	2.00	1.90		ug/L		95	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*95*		*83 - 119*

Lab Sample ID: LCS 280-496861/4-A
Matrix: Water
Analysis Batch: 498360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	2.33	2.11	M	ug/L		91	57 - 132

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	95		83 - 119

Lab Sample ID: LCSD 280-496861/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 498360 — **Prep Batch: 496861**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene			2.00	2.18		ug/L		109	73 - 125	3	30
1,3-Dinitrobenzene			2.00	2.05		ug/L		103	78 - 120	3	30
2,4,6-Trinitrotoluene			2.00	2.11		ug/L		106	71 - 123	1	30
2,4-Dinitrotoluene			2.00	1.93		ug/L		96	78 - 120	4	30
2,6-Dinitrotoluene			2.00	2.03		ug/L		101	77 - 127	0	30
2-Amino-4,6-dinitrotoluene			2.00	1.91		ug/L		95	79 - 120	6	30
2-Nitrotoluene			2.00	1.74		ug/L		87	70 - 127	7	30
3-Nitrotoluene			2.00	1.94		ug/L		97	73 - 125	7	30
4-Amino-2,6-dinitrotoluene			2.00	1.75		ug/L		88	76 - 125	4	30
4-Nitrotoluene			2.00	1.83		ug/L		92	71 - 127	15	30
HMX			2.00	2.03	M	ug/L		102	65 - 135	2	30
Nitrobenzene			2.00	1.97		ug/L		99	65 - 134	5	30
RDX			2.00	2.03		ug/L		102	68 - 130	4	30
Tetryl			2.00	1.96		ug/L		98	64 - 128	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dinitrobenzene	96		83 - 119

Lab Sample ID: 280-137006-4 MS — **Client Sample ID: OS001-DP03-45**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 498360 — **Prep Batch: 496861**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
MNX	0.43	U M	2.53	2.14	J M	ug/L		84	57 - 132		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dinitrobenzene	89		83 - 119

Lab Sample ID: 280-137006-4 MSD — **Client Sample ID: OS001-DP03-45**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 498360 — **Prep Batch: 496861**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MNX	0.43	U M	2.48	1.89	J M	ug/L		76	57 - 132	13	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dinitrobenzene	71	Q	83 - 119

Lab Sample ID: MB 280-497003/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 498537 — **Prep Batch: 497003**

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U M	0.21	0.20	0.084	ug/L		06/12/20 18:48	1

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

Lab Sample ID: MB 280-497003/1-A
Matrix: Water
Analysis Batch: 498537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 497003

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/12/20 18:48	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/12/20 18:48	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/12/20 18:48	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/12/20 18:48	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/12/20 18:48	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		06/12/20 18:48	1
3-Nitrotoluene	0.40	U M	0.40	0.40	0.20	ug/L		06/12/20 18:48	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/12/20 18:48	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/12/20 18:48	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		06/12/20 18:48	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/12/20 18:48	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/12/20 18:48	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/12/20 18:48	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/12/20 18:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*95*		*83 - 119*	*06/02/20 12:47*	*06/12/20 18:48*	*1*

Lab Sample ID: LCS 280-497003/2-A
Matrix: Water
Analysis Batch: 498537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	2.16		ug/L		108	73 - 125
1,3-Dinitrobenzene	2.00	2.01		ug/L		101	78 - 120
2,4,6-Trinitrotoluene	2.00	2.10		ug/L		105	71 - 123
2,4-Dinitrotoluene	2.00	1.87		ug/L		94	78 - 120
2,6-Dinitrotoluene	2.00	2.00		ug/L		100	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.80		ug/L		90	79 - 120
2-Nitrotoluene	2.00	1.61		ug/L		81	70 - 127
3-Nitrotoluene	2.00	1.75		ug/L		87	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.67		ug/L		84	76 - 125
4-Nitrotoluene	2.00	1.70		ug/L		85	71 - 127
HMX	2.00	2.01	M	ug/L		101	65 - 135
Nitrobenzene	2.00	1.83		ug/L		92	65 - 134
RDX	2.00	1.94		ug/L		97	68 - 130
Tetryl	2.00	1.91		ug/L		96	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*99*		*83 - 119*

Lab Sample ID: LCS 280-497003/4-A
Matrix: Water
Analysis Batch: 498537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	2.33	2.18		ug/L		93	57 - 132

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

Lab Sample ID: LCS 280-497003/4-A
Matrix: Water
Analysis Batch: 498537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497003

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 119*

Lab Sample ID: LCSD 280-497003/3-A
Matrix: Water
Analysis Batch: 498537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 497003

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	2.00	2.27		ug/L		113	73 - 125	5	30
1,3-Dinitrobenzene	2.00	2.06		ug/L		103	78 - 120	2	30
2,4,6-Trinitrotoluene	2.00	2.14		ug/L		107	71 - 123	2	30
2,4-Dinitrotoluene	2.00	1.93		ug/L		97	78 - 120	3	30
2,6-Dinitrotoluene	2.00	2.08		ug/L		104	77 - 127	4	30
2-Amino-4,6-dinitrotoluene	2.00	1.86		ug/L		93	79 - 120	3	30
2-Nitrotoluene	2.00	1.75		ug/L		87	70 - 127	8	30
3-Nitrotoluene	2.00	1.89		ug/L		95	73 - 125	8	30
4-Amino-2,6-dinitrotoluene	2.00	1.72		ug/L		86	76 - 125	3	30
4-Nitrotoluene	2.00	1.83		ug/L		91	71 - 127	7	30
HMX	2.00	2.05	M	ug/L		103	65 - 135	2	30
Nitrobenzene	2.00	1.95		ug/L		97	65 - 134	6	30
RDX	2.00	1.99		ug/L		99	68 - 130	2	30
Tetryl	2.00	1.98		ug/L		99	64 - 128	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*99*		*83 - 119*

Lab Sample ID: LCSD 280-497003/5-A
Matrix: Water
Analysis Batch: 498537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 497003

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MNX	2.33	2.22		ug/L		95	57 - 132	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 119*

Lab Sample ID: MB 280-498875/1-A
Matrix: Water
Analysis Batch: 499165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498875

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		06/17/20 22:16	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/17/20 22:16	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/17/20 22:16	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/17/20 22:16	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/17/20 22:16	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/17/20 22:16	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		06/17/20 22:16	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.20	ug/L		06/17/20 22:16	1

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

Lab Sample ID: MB 280-498875/1-A
Matrix: Water
Analysis Batch: 499165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498875

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/17/20 22:16	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/17/20 22:16	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		06/17/20 22:16	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/17/20 22:16	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/17/20 22:16	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/17/20 22:16	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/17/20 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*100*		*83 - 119*	*06/16/20 10:10*	*06/17/20 22:16*	*1*

Lab Sample ID: LCS 280-498875/2-A
Matrix: Water
Analysis Batch: 499165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	2.35		ug/L		118	73 - 125
1,3-Dinitrobenzene	2.00	2.23		ug/L		111	78 - 120
2,4,6-Trinitrotoluene	2.00	2.28		ug/L		114	71 - 123
2,4-Dinitrotoluene	2.00	2.08		ug/L		104	78 - 120
2,6-Dinitrotoluene	2.00	2.10		ug/L		105	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	2.03		ug/L		101	79 - 120
2-Nitrotoluene	2.00	1.74		ug/L		87	70 - 127
3-Nitrotoluene	2.00	1.91		ug/L		96	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.82		ug/L		91	76 - 125
4-Nitrotoluene	2.00	1.88		ug/L		94	71 - 127
HMX	2.00	2.23	M	ug/L		112	65 - 135
Nitrobenzene	2.00	2.08		ug/L		104	65 - 134
RDX	2.00	2.12		ug/L		106	68 - 130
Tetryl	2.00	2.04		ug/L		102	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*95*		*83 - 119*

Lab Sample ID: LCS 280-498875/3-A
Matrix: Water
Analysis Batch: 499165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	2.33	2.23		ug/L		96	57 - 132

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

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

Lab Sample ID: 280-137006-4 MS
Matrix: Water
Analysis Batch: 499165

Client Sample ID: OS001-DP03-45
Prep Type: Total/NA
Prep Batch: 498875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dinitrobenzene - RE	0.11	U H	2.15	2.25	H	ug/L		104	78 - 120
2,4,6-Trinitrotoluene - RE	1.9	H J1	2.15	4.33	H	ug/L		114	71 - 123
2,4-Dinitrotoluene - RE	0.085	U H	2.15	2.12	H	ug/L		98	78 - 120
2,6-Dinitrotoluene - RE	0.085	U H	2.15	2.07	H	ug/L		96	77 - 127
2-Amino-4,6-dinitrotoluene - RE	0.59	H	2.15	2.69	H	ug/L		97	79 - 120
2-Nitrotoluene - RE	0.21	U H	2.15	1.95	H	ug/L		91	70 - 127
3-Nitrotoluene - RE	0.42	U H J1	2.15	0.938	H J1	ug/L		44	73 - 125
4-Amino-2,6-dinitrotoluene - RE	0.13	U H	2.15	2.12	H	ug/L		98	76 - 125
4-Nitrotoluene - RE	0.42	U H M	2.15	2.22	H	ug/L		103	71 - 127
HMX - RE	0.21	U H	2.15	2.32	H M	ug/L		108	65 - 135
Nitrobenzene - RE	0.21	U H M	2.15	2.19	H	ug/L		102	65 - 134
RDX - RE	0.16	H M J1	2.15	2.11	H M	ug/L		91	68 - 130
Tetryl - RE	0.11	U H J1 M	2.15	9.43	H J1 M	ug/L		438	64 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene - RE	*91*		*83 - 119*

Lab Sample ID: 280-137006-4 MSD
Matrix: Water
Analysis Batch: 499165

Client Sample ID: OS001-DP03-45
Prep Type: Total/NA
Prep Batch: 498875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dinitrobenzene - RE	0.11	U H	2.12	2.31	H	ug/L		109	78 - 120	3	30
2,4,6-Trinitrotoluene - RE	1.9	H J1	2.12	4.51	H J1	ug/L		125	71 - 123	4	30
2,4-Dinitrotoluene - RE	0.085	U H	2.12	2.22	H	ug/L		105	78 - 120	5	30
2,6-Dinitrotoluene - RE	0.085	U H	2.12	2.18	H	ug/L		103	77 - 127	5	30
2-Amino-4,6-dinitrotoluene - RE	0.59	H	2.12	2.84	H	ug/L		106	79 - 120	6	30
2-Nitrotoluene - RE	0.21	U H	2.12	2.00	H	ug/L		94	70 - 127	3	30
3-Nitrotoluene - RE	0.42	U H J1	2.12	2.26	H J1	ug/L		107	73 - 125	83	30
4-Amino-2,6-dinitrotoluene - RE	0.13	U H	2.12	2.20	H	ug/L		104	76 - 125	4	30
4-Nitrotoluene - RE	0.42	U H M	2.12	2.29	H	ug/L		108	71 - 127	3	30
HMX - RE	0.21	U H	2.12	2.42	H M	ug/L		114	65 - 135	5	30
Nitrobenzene - RE	0.21	U H M	2.12	2.27	H	ug/L		107	65 - 134	4	30
RDX - RE	0.16	H M J1	2.12	2.18	H M	ug/L		95	68 - 130	3	30
Tetryl - RE	0.11	U H J1 M	2.12	9.76	H J1 M	ug/L		461	64 - 128	3	30

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

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

Lab Sample ID: 280-137006-4 MS
Matrix: Water
Analysis Batch: 499165

Client Sample ID: OS001-DP03-45
Prep Type: Total/NA
Prep Batch: 498875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene - REDL	37	H J1 D	2.15	39.0	H 4 D	ug/L		89	73 - 125

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

Lab Sample ID: 280-137006-4 MS
Matrix: Water
Analysis Batch: 499165

Client Sample ID: OS001-DP03-45
Prep Type: Total/NA
Prep Batch: 498875

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

Lab Sample ID: 280-137006-4 MSD
Matrix: Water
Analysis Batch: 499165

Client Sample ID: OS001-DP03-45
Prep Type: Total/NA
Prep Batch: 498875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene - REDL	37	H J1 D	2.12	41.7	H 4 D	ug/L		222	73 - 125	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene - REDL	*104*		*83 - 119*

QC Association Summary

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

Job ID: 280-137006-1

HPLC/IC

Prep Batch: 496861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-1	OS001-DP03-25	Total/NA	Water	3535	
280-137006-1 - DL	OS001-DP03-25	Total/NA	Water	3535	
280-137006-4 - DL	OS001-DP03-45	Total/NA	Water	3535	
280-137006-4	OS001-DP03-45	Total/NA	Water	3535	
MB 280-496861/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-496861/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-496861/4-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-496861/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
280-137006-4 MS	OS001-DP03-45	Total/NA	Water	3535	
280-137006-4 MSD	OS001-DP03-45	Total/NA	Water	3535	

Prep Batch: 497003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-2 - DL	OS501-DP03-25	Total/NA	Water	3535	
280-137006-2	OS501-DP03-25	Total/NA	Water	3535	
280-137006-3	OS001-DP03-35	Total/NA	Water	3535	
280-137006-3 - DL	OS001-DP03-35	Total/NA	Water	3535	
MB 280-497003/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-497003/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-497003/4-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-497003/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LCSD 280-497003/5-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 498360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-1	OS001-DP03-25	Total/NA	Water	8330A	496861
280-137006-4	OS001-DP03-45	Total/NA	Water	8330A	496861
LCS 280-496861/2-A	Lab Control Sample	Total/NA	Water	8330A	496861
LCS 280-496861/4-A	Lab Control Sample	Total/NA	Water	8330A	496861
LCSD 280-496861/3-A	Lab Control Sample Dup	Total/NA	Water	8330A	496861
280-137006-4 MS	OS001-DP03-45	Total/NA	Water	8330A	496861
280-137006-4 MSD	OS001-DP03-45	Total/NA	Water	8330A	496861

Analysis Batch: 498536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-1 - DL	OS001-DP03-25	Total/NA	Water	8330A	496861
280-137006-4 - DL	OS001-DP03-45	Total/NA	Water	8330A	496861
MB 280-496861/1-A	Method Blank	Total/NA	Water	8330A	496861

Analysis Batch: 498537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-2	OS501-DP03-25	Total/NA	Water	8330A	497003
280-137006-3	OS001-DP03-35	Total/NA	Water	8330A	497003
MB 280-497003/1-A	Method Blank	Total/NA	Water	8330A	497003
LCS 280-497003/2-A	Lab Control Sample	Total/NA	Water	8330A	497003
LCS 280-497003/4-A	Lab Control Sample	Total/NA	Water	8330A	497003
LCSD 280-497003/3-A	Lab Control Sample Dup	Total/NA	Water	8330A	497003
LCSD 280-497003/5-A	Lab Control Sample Dup	Total/NA	Water	8330A	497003

HPLC/IC

Analysis Batch: 498568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-1	OS001-DP03-25	Total/NA	Water	8330A	496861
280-137006-1 - DL	OS001-DP03-25	Total/NA	Water	8330A	496861
280-137006-4	OS001-DP03-45	Total/NA	Water	8330A	496861
280-137006-4 - DL	OS001-DP03-45	Total/NA	Water	8330A	496861

Prep Batch: 498875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-4 - REDL	OS001-DP03-45	Total/NA	Water	3535	
280-137006-4 - RE	OS001-DP03-45	Total/NA	Water	3535	
MB 280-498875/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-498875/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-498875/3-A	Lab Control Sample	Total/NA	Water	3535	
280-137006-4 MS - RE	OS001-DP03-45	Total/NA	Water	3535	
280-137006-4 MS - REDL	OS001-DP03-45	Total/NA	Water	3535	
280-137006-4 MSD - REDL	OS001-DP03-45	Total/NA	Water	3535	
280-137006-4 MSD - RE	OS001-DP03-45	Total/NA	Water	3535	

Analysis Batch: 499146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-2	OS501-DP03-25	Total/NA	Water	8330A	497003
280-137006-2 - DL	OS501-DP03-25	Total/NA	Water	8330A	497003
280-137006-3	OS001-DP03-35	Total/NA	Water	8330A	497003
280-137006-3 - DL	OS001-DP03-35	Total/NA	Water	8330A	497003

Analysis Batch: 499164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-2 - DL	OS501-DP03-25	Total/NA	Water	8330A	497003
280-137006-3 - DL	OS001-DP03-35	Total/NA	Water	8330A	497003

Analysis Batch: 499165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-4 - RE	OS001-DP03-45	Total/NA	Water	8330A	498875
280-137006-4 - REDL	OS001-DP03-45	Total/NA	Water	8330A	498875
MB 280-498875/1-A	Method Blank	Total/NA	Water	8330A	498875
LCS 280-498875/2-A	Lab Control Sample	Total/NA	Water	8330A	498875
LCS 280-498875/3-A	Lab Control Sample	Total/NA	Water	8330A	498875
280-137006-4 MS - RE	OS001-DP03-45	Total/NA	Water	8330A	498875
280-137006-4 MS - REDL	OS001-DP03-45	Total/NA	Water	8330A	498875
280-137006-4 MSD - RE	OS001-DP03-45	Total/NA	Water	8330A	498875
280-137006-4 MSD - REDL	OS001-DP03-45	Total/NA	Water	8330A	498875

Analysis Batch: 499350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137006-4 - RE	OS001-DP03-45	Total/NA	Water	8330A	498875
280-137006-4 - REDL	OS001-DP03-45	Total/NA	Water	8330A	498875

Lab Chronicle

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

Job ID: 280-137006-1

Client Sample ID: OS001-DP03-25

Lab Sample ID: 280-137006-1

Date Collected: 05/26/20 14:10

Matrix: Water

Date Received: 05/28/20 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			467.3 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498568	06/12/20 23:42	JZ	TAL DEN
Total/NA	Prep	3535	DL		467.3 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			498568	06/13/20 02:02	JZ	TAL DEN
Total/NA	Prep	3535			467.3 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498360	06/12/20 01:42	JZ	TAL DEN
Total/NA	Prep	3535	DL		467.3 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			498536	06/12/20 15:44	JZ	TAL DEN

Client Sample ID: OS501-DP03-25

Lab Sample ID: 280-137006-2

Date Collected: 05/26/20 08:00

Matrix: Water

Date Received: 05/28/20 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			447.3 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A		1			499146	06/17/20 22:00	JZ	TAL DEN
Total/NA	Prep	3535	DL		447.3 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			499146	06/17/20 22:35	JZ	TAL DEN
Total/NA	Prep	3535			447.3 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498537	06/12/20 20:43	JZ	TAL DEN
Total/NA	Prep	3535	DL		447.3 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			499164	06/17/20 19:12	JZ	TAL DEN

Client Sample ID: OS001-DP03-35

Lab Sample ID: 280-137006-3

Date Collected: 05/26/20 15:05

Matrix: Water

Date Received: 05/28/20 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			468.9 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A		1			499146	06/17/20 23:10	JZ	TAL DEN
Total/NA	Prep	3535	DL		468.9 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			499146	06/17/20 23:45	JZ	TAL DEN
Total/NA	Prep	3535			468.9 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498537	06/12/20 21:06	JZ	TAL DEN
Total/NA	Prep	3535	DL		468.9 mL	5 mL	497003	06/02/20 12:47	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			499164	06/17/20 19:35	JZ	TAL DEN

Client Sample ID: OS001-DP03-45

Lab Sample ID: 280-137006-4

Date Collected: 05/26/20 15:45

Matrix: Water

Date Received: 05/28/20 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			469.6 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498568	06/13/20 00:17	JZ	TAL DEN

Lab Chronicle

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

Job ID: 280-137006-1

Client Sample ID: OS001-DP03-45

Date Collected: 05/26/20 15:45
Date Received: 05/28/20 09:45

Lab Sample ID: 280-137006-4

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	DL		469.6 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			498568	06/13/20 02:37	JZ	TAL DEN
Total/NA	Prep	3535	RE		472.1 mL	5 mL	498875	06/16/20 10:10	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			499350	06/19/20 10:45	JZ	TAL DEN
Total/NA	Prep	3535	REDL		472.1 mL	5 mL	498875	06/16/20 10:10	MLA	TAL DEN
Total/NA	Analysis	8330A	REDL	10			499350	06/19/20 12:30	JZ	TAL DEN
Total/NA	Prep	3535			469.6 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498360	06/12/20 02:05	JZ	TAL DEN
Total/NA	Prep	3535	DL		469.6 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A	DL	10			498536	06/12/20 16:07	JZ	TAL DEN
Total/NA	Prep	3535	RE		472.1 mL	5 mL	498875	06/16/20 10:10	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			499165	06/17/20 23:25	JZ	TAL DEN
Total/NA	Prep	3535	REDL		472.1 mL	5 mL	498875	06/16/20 10:10	MLA	TAL DEN
Total/NA	Analysis	8330A	REDL	10			499165	06/18/20 00:34	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: 280-137006-1

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: 280-137006-1

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: 280-137006-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-137006-1	OS001-DP03-25	Water	05/26/20 14:10	05/28/20 09:45	
280-137006-2	OS501-DP03-25	Water	05/26/20 08:00	05/28/20 09:45	
280-137006-3	OS001-DP03-35	Water	05/26/20 15:05	05/28/20 09:45	
280-137006-4	OS001-DP03-45	Water	05/26/20 15:45	05/28/20 09:45	

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/7 Client Sample ID:

Date Analyzed: 05/14/20 16:16 Lab File ID: 05140007.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.48	Split Peak	zhangji	05/14/20 17:09
4-Nitrotoluene	16.72	Split Peak	zhangji	05/14/20 17:09
4-Amino-2,6-dinitrotoluene	17.07	Split Peak	zhangji	05/14/20 17:08
3-Nitrotoluene	17.78	Split Peak	zhangji	05/14/20 17:08
2-Amino-4,6-dinitrotoluene	17.94	Split Peak	zhangji	05/14/20 17:08
1,3,5-Trinitrobenzene	18.83	Peak assignment corrected	zhangji	05/14/20 17:08
2,6-Dinitrotoluene	19.74	Peak assignment corrected	zhangji	05/14/20 17:08
2,4-Dinitrotoluene	20.24	Peak assignment corrected	zhangji	05/14/20 17:08
Tetryl	23.52	Peak assignment corrected	zhangji	05/14/20 17:08
2,4,6-Trinitrotoluene	24.62	Peak assignment corrected	zhangji	05/14/20 17:08

Lab Sample ID: IC 280-494886/8 Client Sample ID:

Date Analyzed: 05/14/20 16:51 Lab File ID: 05140008.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	13.03	Baseline	zhangji	05/15/20 11:34

Lab Sample ID: IC 280-494886/9 Client Sample ID:

Date Analyzed: 05/14/20 17:26 Lab File ID: 05140009.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	13.03	Baseline	zhangji	05/15/20 11:34

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/10 Client Sample ID:

Date Analyzed: 05/14/20 18:01 Lab File ID: 05140010.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.27	Peak assignment corrected	zhangji	05/15/20 11:20
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:34
1,3-Dinitrobenzene	15.55	Baseline	zhangji	05/15/20 11:20
2-Nitrotoluene	16.54	Baseline	zhangji	05/15/20 11:20
4-Nitrotoluene	16.82	Baseline	zhangji	05/15/20 11:20
4-Amino-2,6-dinitrotoluene	17.15	Baseline	zhangji	05/15/20 11:20
3-Nitrotoluene	17.75	Baseline	zhangji	05/15/20 11:20
2-Amino-4,6-dinitrotoluene	18.04	Baseline	zhangji	05/15/20 11:20
2,6-Dinitrotoluene	19.81	Baseline	zhangji	05/15/20 11:20
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:20
PETN	25.28	Peak Tail	zhangji	05/15/20 11:25

Lab Sample ID: IC 280-494886/11 Client Sample ID:

Date Analyzed: 05/14/20 18:36 Lab File ID: 05140011.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.30	Peak assignment corrected	zhangji	05/15/20 11:20
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:35
Nitroglycerin	15.85	Baseline	zhangji	05/15/20 11:32
PETN	25.28	Peak Tail	zhangji	05/15/20 11:25

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/12 Client Sample ID:

Date Analyzed: 05/14/20 19:11 Lab File ID: 05140012.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.31	Peak assignment corrected	zhangji	05/15/20 11:22
1,3-Dinitrobenzene	15.55	Baseline	zhangji	05/15/20 11:21
Nitroglycerin	15.85	Baseline	zhangji	05/15/20 11:32
2-Nitrotoluene	16.53	Baseline	zhangji	05/15/20 11:21
4-Nitrotoluene	16.83	Baseline	zhangji	05/15/20 11:21
4-Amino-2,6-dinitrotoluene	17.15	Baseline	zhangji	05/15/20 11:21
3-Nitrotoluene	17.74	Baseline	zhangji	05/15/20 11:21
2-Amino-4,6-dinitrotoluene	18.05	Baseline	zhangji	05/15/20 11:21
1,3,5-Trinitrobenzene	18.88	Baseline	zhangji	05/15/20 11:21
2,6-Dinitrotoluene	19.79	Baseline	zhangji	05/15/20 11:21
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:21
PETN	25.28	Peak Tail	zhangji	05/15/20 11:24

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/13 Client Sample ID:

Date Analyzed: 05/14/20 19:46 Lab File ID: 05140013.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.33	Baseline	zhangji	05/15/20 11:22
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:35
1,3-Dinitrobenzene	15.54	Baseline	zhangji	05/15/20 11:22
Nitroglycerin	15.84	Incomplete Integration	zhangji	05/15/20 11:32
2-Nitrotoluene	16.55	Baseline	zhangji	05/15/20 11:22
4-Nitrotoluene	16.84	Baseline	zhangji	05/15/20 11:22
4-Amino-2,6-dinitrotoluene	17.16	Baseline	zhangji	05/15/20 11:22
3-Nitrotoluene	17.72	Baseline	zhangji	05/15/20 11:22
2-Amino-4,6-dinitrotoluene	18.03	Baseline	zhangji	05/15/20 11:22
1,3,5-Trinitrobenzene	18.86	Baseline	zhangji	05/15/20 11:22
2,6-Dinitrotoluene	19.82	Baseline	zhangji	05/15/20 11:22
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:22
PETN	25.28	Peak Tail	zhangji	05/15/20 11:24

Lab Sample ID: IC 280-494886/14 Client Sample ID:

Date Analyzed: 05/14/20 20:21 Lab File ID: 05140014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.32	Peak assignment corrected	zhangji	05/15/20 11:22
1,2-Dinitrobenzene	13.02	Split Peak	zhangji	05/15/20 11:35
PETN	25.28	Split Peak	zhangji	05/15/20 11:24

Lab Sample ID: IC 280-494886/15 Client Sample ID:

Date Analyzed: 05/14/20 20:56 Lab File ID: 05140015.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-Dinitrotoluene	19.76	Baseline	zhangji	05/15/20 11:30
2,4-Dinitrotoluene	20.30	Baseline	zhangji	05/15/20 11:30

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: ICV 280-494886/16 Client Sample ID:

Date Analyzed: 05/14/20 21:31 Lab File ID: 05140016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.23	Peak assignment corrected	zhangji	05/15/20 11:14
2-Nitrotoluene	16.49	Baseline	zhangji	05/15/20 11:33
4-Nitrotoluene	16.77	Baseline	zhangji	05/15/20 11:33
4-Amino-2,6-dinitrotoluene	17.10	Baseline	zhangji	05/15/20 11:33
3-Nitrotoluene	17.69	Baseline	zhangji	05/15/20 11:33
2-Amino-4,6-dinitrotoluene	17.99	Baseline	zhangji	05/15/20 11:33
1,3,5-Trinitrobenzene	18.83	Baseline	zhangji	05/15/20 11:33
2,6-Dinitrotoluene	19.75	Baseline	zhangji	05/15/20 11:33
2,4-Dinitrotoluene	20.24	Baseline	zhangji	05/15/20 11:33

Lab Sample ID: IC 280-494886/17 Client Sample ID:

Date Analyzed: 05/14/20 22:06 Lab File ID: 05140017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.71	Peak assignment corrected	zhangji	05/15/20 11:36

Lab Sample ID: IC 280-494886/18 Client Sample ID:

Date Analyzed: 05/14/20 22:41 Lab File ID: 05140018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.73	Peak assignment corrected	zhangji	05/15/20 11:36

Lab Sample ID: IC 280-494886/19 Client Sample ID:

Date Analyzed: 05/14/20 23:16 Lab File ID: 05140019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.74	Peak assignment corrected	zhangji	05/15/20 11:36

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/20 Client Sample ID:

Date Analyzed: 05/14/20 23:51 Lab File ID: 05140020.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.74	Peak assignment corrected	zhangji	05/15/20 11:36

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 498568

Lab Sample ID: CCV 280-498568/16 Client Sample ID:

Date Analyzed: 06/12/20 22:33 Lab File ID: 06120016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.76	Baseline	zhangji	06/16/20 18:59
4-Nitrotoluene	17.05	Baseline	zhangji	06/16/20 18:59
4-Amino-2,6-dinitrotoluene	17.50	Baseline	zhangji	06/16/20 18:59
3-Nitrotoluene	17.98	Baseline	zhangji	06/16/20 18:59
2-Amino-4,6-dinitrotoluene	18.44	Baseline	zhangji	06/16/20 18:59
1,3,5-Trinitrobenzene	19.17	Baseline	zhangji	06/16/20 18:59
2,6-Dinitrotoluene	20.10	Baseline	zhangji	06/16/20 18:59
2,4-Dinitrotoluene	20.61	Baseline	zhangji	06/16/20 18:59

Lab Sample ID: 280-137006-1 Client Sample ID: OS001-DP03-25

Date Analyzed: 06/12/20 23:42 Lab File ID: 06120018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.15	Baseline	zhangji	06/16/20 17:49
2-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:48
4-Nitrotoluene	17.07	Baseline	zhangji	06/16/20 17:49
4-Amino-2,6-dinitrotoluene	17.47	Baseline	zhangji	06/16/20 17:49
2-Amino-4,6-dinitrotoluene	18.41	Baseline	zhangji	06/16/20 17:49
1,3,5-Trinitrobenzene	19.14	Baseline	zhangji	06/16/20 17:49

Lab Sample ID: 280-137006-4 Client Sample ID: OS001-DP03-45

Date Analyzed: 06/13/20 00:17 Lab File ID: 06120019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/16/20 17:50

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 498568

Lab Sample ID: 280-137006-1 DL Client Sample ID: OS001-DP03-25 DL

Date Analyzed: 06/13/20 02:02 Lab File ID: 06120022.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene		Invalid Compound ID	zhangji	06/16/20 17:51
3-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:51

Lab Sample ID: 280-137006-4 DL Client Sample ID: OS001-DP03-45 DL

Date Analyzed: 06/13/20 02:37 Lab File ID: 06120023.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:51
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:51
Tetryl		Invalid Compound ID	zhangji	06/16/20 17:51
1,3,5-Trinitrobenzene	19.14	Baseline	zhangji	06/16/20 17:51

Lab Sample ID: CCV 280-498568/26 Client Sample ID:

Date Analyzed: 06/13/20 04:22 Lab File ID: 06120026.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	15.80	Baseline	zhangji	06/16/20 17:52
2-Nitrotoluene	16.73	Baseline	zhangji	06/16/20 17:52
4-Nitrotoluene	17.01	Baseline	zhangji	06/16/20 17:52
4-Amino-2,6-dinitrotoluene	17.47	Baseline	zhangji	06/16/20 17:52
3-Nitrotoluene	17.94	Baseline	zhangji	06/16/20 17:52
2-Amino-4,6-dinitrotoluene	18.41	Baseline	zhangji	06/16/20 17:52
1,3,5-Trinitrobenzene	19.14	Baseline	zhangji	06/16/20 17:52
2,6-Dinitrotoluene	20.07	Baseline	zhangji	06/16/20 17:52
2,4-Dinitrotoluene	20.58	Baseline	zhangji	06/16/20 17:52

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 498568

Lab Sample ID: CCV 280-498568/27 Client Sample ID:

Date Analyzed: 06/13/20 04:57 Lab File ID: 06120027.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.93	Baseline	zhangji	06/16/20 17:53

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 499146

Lab Sample ID: CCV 280-499146/7 Client Sample ID:

Date Analyzed: 06/17/20 17:55 Lab File ID: 06170007.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	16.06	Baseline	zhangji	06/17/20 18:49
2-Nitrotoluene	16.74	Baseline	zhangji	06/17/20 18:49
4-Nitrotoluene	17.02	Baseline	zhangji	06/17/20 18:49
4-Amino-2,6-dinitrotoluene	17.46	Baseline	zhangji	06/17/20 18:49
3-Nitrotoluene	17.96	Baseline	zhangji	06/17/20 18:49
2-Amino-4,6-dinitrotoluene	18.40	Baseline	zhangji	06/17/20 18:49
1,3,5-Trinitrobenzene	19.14	Baseline	zhangji	06/17/20 18:49
2,6-Dinitrotoluene	20.06	Baseline	zhangji	06/17/20 18:49
2,4-Dinitrotoluene	20.57	Baseline	zhangji	06/17/20 18:49

Lab Sample ID: 280-137006-2 Client Sample ID: OS501-DP03-25

Date Analyzed: 06/17/20 22:00 Lab File ID: 06170014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:22
2-Nitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:22
4-Nitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:22

Lab Sample ID: 280-137006-2 DL Client Sample ID: OS501-DP03-25 DL

Date Analyzed: 06/17/20 22:35 Lab File ID: 06170015.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Nitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:23
Tetryl		Invalid Compound ID	zhangji	06/18/20 17:22
1,2-Dinitrobenzene	13.29	Baseline	zhangji	06/18/20 17:23
4-Amino-2,6-dinitrotoluene	17.46	Baseline	zhangji	06/18/20 17:23
2-Amino-4,6-dinitrotoluene	18.41	Baseline	zhangji	06/18/20 17:23

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 499146

Lab Sample ID: 280-137006-3 Client Sample ID: OS001-DP03-35

Date Analyzed: 06/17/20 23:10 Lab File ID: 06170016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:23
2-Nitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:23

Lab Sample ID: 280-137006-3 DL Client Sample ID: OS001-DP03-35 DL

Date Analyzed: 06/17/20 23:45 Lab File ID: 06170017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:23
3-Nitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:23
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	06/18/20 17:23
RDX		Invalid Compound ID	zhangji	06/18/20 17:23
1,2-Dinitrobenzene	13.27	Baseline	zhangji	06/18/20 17:24
1,3,5-Trinitrobenzene	19.13	Baseline	zhangji	06/18/20 17:24
2,4,6-Trinitrotoluene	24.88	Baseline	zhangji	06/18/20 17:24

Lab Sample ID: CCV 280-499146/19 Client Sample ID:

Date Analyzed: 06/18/20 00:55 Lab File ID: 06170019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	16.04	Baseline	zhangji	06/18/20 14:09
2-Nitrotoluene	16.73	Baseline	zhangji	06/18/20 14:09
4-Nitrotoluene	17.02	Baseline	zhangji	06/18/20 14:09
4-Amino-2,6-dinitrotoluene	17.46	Baseline	zhangji	06/18/20 14:09
3-Nitrotoluene	17.95	Baseline	zhangji	06/18/20 14:09
2-Amino-4,6-dinitrotoluene	18.39	Baseline	zhangji	06/18/20 14:09
1,3,5-Trinitrobenzene	19.13	Baseline	zhangji	06/18/20 14:09
2,6-Dinitrotoluene	20.05	Baseline	zhangji	06/18/20 14:09
2,4-Dinitrotoluene	20.57	Baseline	zhangji	06/18/20 14:09

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 499350

Lab Sample ID: CCV 280-499350/7 Client Sample ID:

Date Analyzed: 06/19/20 07:50 Lab File ID: 007-7001.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.72	Baseline	zhangji	06/19/20 17:41
4-Nitrotoluene	17.01	Baseline	zhangji	06/19/20 17:41
4-Amino-2,6-dinitrotoluene	17.45	Baseline	zhangji	06/19/20 17:41
3-Nitrotoluene	17.93	Baseline	zhangji	06/19/20 17:41
2-Amino-4,6-dinitrotoluene	18.39	Baseline	zhangji	06/19/20 17:41
1,3,5-Trinitrobenzene	19.12	Baseline	zhangji	06/19/20 17:41
2,6-Dinitrotoluene	20.05	Baseline	zhangji	06/19/20 17:41
2,4-Dinitrotoluene	20.56	Baseline	zhangji	06/19/20 17:41

Lab Sample ID: MB 280-498875/1-A Client Sample ID:

Date Analyzed: 06/19/20 09:00 Lab File ID: 009-7201.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	9.34	Baseline	zhangji	06/20/20 13:26
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/20/20 13:25
2-Nitrotoluene		Invalid Compound ID	zhangji	06/20/20 13:25
3-Nitrotoluene		Invalid Compound ID	zhangji	06/20/20 13:25
Tetryl		Invalid Compound ID	zhangji	06/20/20 13:25
1,2-Dinitrobenzene	13.25	Baseline	zhangji	06/20/20 13:25

Lab Sample ID: 280-137006-4 RE Client Sample ID: OS001-DP03-45 RE

Date Analyzed: 06/19/20 10:45 Lab File ID: 012-7501.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Nitrotoluene		Invalid Compound ID	zhangji	06/19/20 16:38

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 499350

Lab Sample ID: 280-137006-4 MS RE Client Sample ID: OS001-DP03-45 MS RE

Date Analyzed: 06/19/20 11:20 Lab File ID: 013-7601.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.69	Baseline	zhangji	06/19/20 16:39
4-Nitrotoluene	16.98	Baseline	zhangji	06/19/20 16:39
4-Amino-2,6-dinitrotoluene	17.42	Baseline	zhangji	06/19/20 16:39
3-Nitrotoluene	17.91	Baseline	zhangji	06/19/20 16:39
2-Amino-4,6-dinitrotoluene	18.35	Baseline	zhangji	06/19/20 16:39
1,3,5-Trinitrobenzene	19.09	Baseline	zhangji	06/19/20 16:39
2,6-Dinitrotoluene	20.02	Baseline	zhangji	06/19/20 16:39
2,4-Dinitrotoluene	20.53	Baseline	zhangji	06/19/20 16:39

Lab Sample ID: 280-137006-4 REDL Client Sample ID: OS001-DP03-45 REDL

Date Analyzed: 06/19/20 12:30 Lab File ID: 015-7801.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	06/19/20 16:39
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	06/19/20 16:39
4-Nitrotoluene		Invalid Compound ID	zhangji	06/19/20 16:39
2,4,6-Trinitrotoluene	24.89	Baseline	zhangji	06/19/20 16:39

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 499350

Lab Sample ID: 280-137006-4 MS REDL Client Sample ID: OS001-DP03-45 MS REDL

Date Analyzed: 06/19/20 13:05 Lab File ID: 016-7901.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.67	Baseline	zhangji	06/19/20 16:40
4-Nitrotoluene	17.02	Baseline	zhangji	06/19/20 16:40
4-Amino-2,6-dinitrotoluene	17.44	Baseline	zhangji	06/19/20 16:40
3-Nitrotoluene	17.93	Baseline	zhangji	06/19/20 16:40
2-Amino-4,6-dinitrotoluene	18.37	Baseline	zhangji	06/19/20 16:40
1,3,5-Trinitrobenzene	19.10	Baseline	zhangji	06/19/20 16:40
2,6-Dinitrotoluene	20.03	Baseline	zhangji	06/19/20 16:40
2,4-Dinitrotoluene	20.53	Baseline	zhangji	06/19/20 16:40

Lab Sample ID: 280-137006-4 MSD REDL Client Sample ID: OS001-DP03-45 MSD REDL

Date Analyzed: 06/19/20 13:40 Lab File ID: 017-8001.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.73	Baseline	zhangji	06/19/20 16:40
4-Nitrotoluene	16.97	Baseline	zhangji	06/19/20 16:40
4-Amino-2,6-dinitrotoluene	17.44	Baseline	zhangji	06/19/20 16:40
3-Nitrotoluene	17.90	Baseline	zhangji	06/19/20 16:40
2-Amino-4,6-dinitrotoluene	18.36	Baseline	zhangji	06/19/20 16:40
1,3,5-Trinitrobenzene	19.10	Baseline	zhangji	06/19/20 16:40
2,6-Dinitrotoluene	20.03	Baseline	zhangji	06/19/20 16:40
2,4-Dinitrotoluene	20.53	Baseline	zhangji	06/19/20 16:40
2,4,6-Trinitrotoluene	24.87	Baseline	zhangji	06/19/20 16:40

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 499350

Lab Sample ID: CCV 280-499350/19 Client Sample ID:

Date Analyzed: 06/19/20 14:50 Lab File ID: 007-8201.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.71	Baseline	zhangji	06/19/20 16:40
4-Nitrotoluene	16.99	Baseline	zhangji	06/19/20 16:40
4-Amino-2,6-dinitrotoluene	17.43	Baseline	zhangji	06/19/20 16:40
3-Nitrotoluene	17.91	Baseline	zhangji	06/19/20 16:40
2-Amino-4,6-dinitrotoluene	18.37	Baseline	zhangji	06/19/20 16:40
1,3,5-Trinitrobenzene	19.11	Baseline	zhangji	06/19/20 16:40
2,6-Dinitrotoluene	20.03	Baseline	zhangji	06/19/20 16:40
2,4-Dinitrotoluene	20.55	Baseline	zhangji	06/19/20 16:40

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: IC 280-487658/25 Client Sample ID:

Date Analyzed: 03/04/20 21:00 Lab File ID: 03040025.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:29
DNX	6.92	Baseline	beckerc	03/05/20 08:29
MNX	7.36	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/26 Client Sample ID:

Date Analyzed: 03/04/20 21:23 Lab File ID: 03040026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:30
DNX	6.92	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/27 Client Sample ID:

Date Analyzed: 03/04/20 21:45 Lab File ID: 03040027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:30
DNX	6.92	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/28 Client Sample ID:

Date Analyzed: 03/04/20 22:09 Lab File ID: 03040028.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:31

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: IC 280-487658/29 Client Sample ID:

Date Analyzed: 03/04/20 22:31 Lab File ID: 03040029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:31

Lab Sample ID: IC 280-487658/30 Client Sample ID:

Date Analyzed: 03/04/20 22:54 Lab File ID: 03040030.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:32

Lab Sample ID: IC 280-487658/31 Client Sample ID:

Date Analyzed: 03/04/20 23:17 Lab File ID: 03040031.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:32
DNX	6.91	Baseline	beckerc	03/05/20 08:32

Lab Sample ID: IC 280-487658/32 Client Sample ID:

Date Analyzed: 03/04/20 23:40 Lab File ID: 03040032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:32
DNX	6.91	Baseline	beckerc	03/05/20 08:32

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: ICV 280-487658/33 Client Sample ID:

Date Analyzed: 03/05/20 00:03 Lab File ID: 03040033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:37
DNX	6.91	Baseline	beckerc	03/05/20 08:37

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145

Lab Sample ID: IC 280-489145/7 Client Sample ID:

Date Analyzed: 03/18/20 11:35 Lab File ID: 03180007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/19/20 08:41
1,3-Dinitrobenzene	9.53	Baseline	beckerc	03/19/20 08:41

Lab Sample ID: IC 280-489145/8 Client Sample ID:

Date Analyzed: 03/18/20 11:58 Lab File ID: 03180008.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/18/20 08:41

Lab Sample ID: IC 280-489145/9 Client Sample ID:

Date Analyzed: 03/18/20 12:21 Lab File ID: 03180009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:42

Lab Sample ID: IC 280-489145/10 Client Sample ID:

Date Analyzed: 03/18/20 12:44 Lab File ID: 03180010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:42

Lab Sample ID: IC 280-489145/11 Client Sample ID:

Date Analyzed: 03/18/20 13:07 Lab File ID: 03180011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:43

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145

Lab Sample ID: IC 280-489145/12 Client Sample ID:

Date Analyzed: 03/18/20 13:30 Lab File ID: 03180012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:43

Lab Sample ID: IC 280-489145/13 Client Sample ID:

Date Analyzed: 03/18/20 13:53 Lab File ID: 03180013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:44

Lab Sample ID: IC 280-489145/14 Client Sample ID:

Date Analyzed: 03/18/20 14:16 Lab File ID: 03180014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:44
2-Amino-4,6-dinitrotoluene	11.63	Baseline	beckerc	03/19/20 08:44
2,6-Dinitrotoluene	11.79	Unspecified		

Lab Sample ID: IC 280-489145/15 Client Sample ID:

Date Analyzed: 03/18/20 14:39 Lab File ID: 03180015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	8.08	Unspecified		
2-Amino-4,6-dinitrotoluene	11.64	Baseline	beckerc	03/19/20 08:46
2,6-Dinitrotoluene	11.80	Unspecified		

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145

Lab Sample ID: ICV 280-489145/16 Client Sample ID:

Date Analyzed: 03/18/20 15:02 Lab File ID: 03180016.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:47

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498360

Lab Sample ID: CCV 280-498360/16 Client Sample ID:

Date Analyzed: 06/11/20 18:25 Lab File ID: 06110016.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/11/20 18:51
Nitroglycerin	10.80	Baseline	zhangji	06/11/20 18:51

Lab Sample ID: CCV 280-498360/17 Client Sample ID:

Date Analyzed: 06/11/20 18:48 Lab File ID: 06110017.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 11:33
DNX	6.95	Baseline	zhangji	06/12/20 11:33
MNX	7.39	Baseline	zhangji	06/12/20 11:34

Lab Sample ID: LCSD 280-496861/3-A Client Sample ID:

Date Analyzed: 06/11/20 21:29 Lab File ID: 06110024.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/12/20 11:09

Lab Sample ID: LCS 280-496861/4-A Client Sample ID:

Date Analyzed: 06/11/20 21:52 Lab File ID: 06110025.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.38	Baseline	zhangji	06/12/20 11:05

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498360

Lab Sample ID: CCV 280-498360/32 Client Sample ID:

Date Analyzed: 06/12/20 00:33 Lab File ID: 06110032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/12/20 11:04

Lab Sample ID: CCV 280-498360/33 Client Sample ID:

Date Analyzed: 06/12/20 00:56 Lab File ID: 06110033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 11:16
DNX	6.95	Baseline	zhangji	06/12/20 11:16
MNX	7.39	Baseline	zhangji	06/12/20 11:16

Lab Sample ID: 280-137006-1 Client Sample ID: OS001-DP03-25

Date Analyzed: 06/12/20 01:42 Lab File ID: 06110035.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.45	Baseline	zhangji	06/12/20 11:11
RDX	7.78	Baseline	zhangji	06/12/20 11:12
1,2-Dinitrobenzene	8.77	Baseline	zhangji	06/12/20 11:11
1,3,5-Trinitrobenzene	8.94	Baseline	zhangji	06/12/20 11:11
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/12/20 11:12
2,6-Dinitrotoluene		Invalid Compound ID	zhangji	06/12/20 11:12
2-Nitrotoluene		Invalid Compound ID	zhangji	06/12/20 11:12
Tetryl		Invalid Compound ID	zhangji	06/12/20 11:12

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498360

Lab Sample ID: 280-137006-4 Client Sample ID: OS001-DP03-45

Date Analyzed: 06/12/20 02:05 Lab File ID: 06110036.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.45	Baseline	zhangji	06/12/20 11:14
RDX	7.78	Baseline	zhangji	06/12/20 11:14
2,6-Dinitrotoluene		Invalid Compound ID	zhangji	06/12/20 11:15
2,4,6-Trinitrotoluene	11.28	Baseline	zhangji	06/12/20 11:15
4-Nitrotoluene	13.28	Baseline	zhangji	06/12/20 11:15

Lab Sample ID: 280-137006-4 MS Client Sample ID: OS001-DP03-45 MS

Date Analyzed: 06/12/20 02:28 Lab File ID: 06110037.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.39	Baseline	zhangji	06/12/20 11:17

Lab Sample ID: 280-137006-4 MSD Client Sample ID: OS001-DP03-45 MSD

Date Analyzed: 06/12/20 02:51 Lab File ID: 06110038.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.39	Baseline	zhangji	06/12/20 11:18

Lab Sample ID: CCV 280-498360/48 Client Sample ID:

Date Analyzed: 06/12/20 06:41 Lab File ID: 06110048.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	11.74	Peak assignment corrected	zhangji	06/12/20 11:32
2,6-Dinitrotoluene	11.88	Peak assignment corrected	zhangji	06/12/20 11:32

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498360

Lab Sample ID: CCV 280-498360/49 Client Sample ID:

Date Analyzed: 06/12/20 07:04 Lab File ID: 06110049.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 11:32
DNX	6.95	Baseline	zhangji	06/12/20 11:32
MNX	7.40	Baseline	zhangji	06/12/20 11:32

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498536

Lab Sample ID: CCV 280-498536/7 Client Sample ID:

Date Analyzed: 06/12/20 13:26 Lab File ID: 06120007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.70	Baseline	zhangji	06/12/20 13:52

Lab Sample ID: CCV 280-498536/9 Client Sample ID:

Date Analyzed: 06/12/20 14:12 Lab File ID: 06120009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 14:39
DNX	6.95	Baseline	zhangji	06/12/20 14:39

Lab Sample ID: MB 280-496861/1-A Client Sample ID:

Date Analyzed: 06/12/20 14:35 Lab File ID: 06120010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX		Invalid Compound ID	zhangji	06/12/20 15:01

Lab Sample ID: 280-137006-1 DL Client Sample ID: OS001-DP03-25 DL

Date Analyzed: 06/12/20 15:44 Lab File ID: 06120013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.76	Baseline	zhangji	06/12/20 16:13
1,3,5-Trinitrobenzene	8.93	Baseline	zhangji	06/12/20 16:13
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/12/20 16:13
HMX		Invalid Compound ID	zhangji	06/12/20 16:13
MNX		Invalid Compound ID	zhangji	06/12/20 16:13
RDX		Invalid Compound ID	zhangji	06/12/20 16:13

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498536

Lab Sample ID: 280-137006-4 DL Client Sample ID: OS001-DP03-45 DL

Date Analyzed: 06/12/20 16:07 Lab File ID: 06120014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	06/12/20 16:58
3-Nitrotoluene		Invalid Compound ID	zhangji	06/12/20 16:58
4-Nitrotoluene		Invalid Compound ID	zhangji	06/12/20 16:58
2,4,6-Trinitrotoluene	11.30	Baseline	zhangji	06/12/20 16:57
2-Amino-4,6-dinitrotoluene	11.76	Baseline	zhangji	06/12/20 16:58

Lab Sample ID: CCV 280-498536/20 Client Sample ID:

Date Analyzed: 06/12/20 18:25 Lab File ID: 06120020.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/16/20 14:03
DNX	6.94	Baseline	zhangji	06/16/20 14:03

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498537

Lab Sample ID: CCV 280-498537/20 Client Sample ID:

Date Analyzed: 06/12/20 18:25 Lab File ID: 06120020.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/16/20 14:03
DNX	6.94	Baseline	zhangji	06/16/20 14:03

Lab Sample ID: MB 280-497003/1-A Client Sample ID:

Date Analyzed: 06/12/20 18:48 Lab File ID: 06120021.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	06/16/20 20:18
3-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 20:18
MNX		Invalid Compound ID	zhangji	06/16/20 20:18

Lab Sample ID: LCS 280-497003/2-A Client Sample ID:

Date Analyzed: 06/12/20 19:11 Lab File ID: 06120022.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/16/20 20:19

Lab Sample ID: LCSD 280-497003/3-A Client Sample ID:

Date Analyzed: 06/12/20 19:34 Lab File ID: 06120023.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/16/20 20:19

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498537

Lab Sample ID: 280-137006-2 Client Sample ID: OS501-DP03-25

Date Analyzed: 06/12/20 20:43 Lab File ID: 06120026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.78	Baseline	zhangji	06/16/20 15:03
1,3,5-Trinitrobenzene	8.95	Baseline	zhangji	06/16/20 15:03
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/16/20 15:03
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/16/20 15:03
3-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 15:03
4-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 15:03
MNX		Invalid Compound ID	zhangji	06/16/20 15:03
Tetryl		Invalid Compound ID	zhangji	06/16/20 15:03

Lab Sample ID: 280-137006-3 Client Sample ID: OS001-DP03-35

Date Analyzed: 06/12/20 21:06 Lab File ID: 06120027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/16/20 15:04
3-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 15:04
MNX		Invalid Compound ID	zhangji	06/16/20 15:04
Tetryl		Invalid Compound ID	zhangji	06/16/20 15:04

Lab Sample ID: CCV 280-498537/32 Client Sample ID:

Date Analyzed: 06/12/20 23:01 Lab File ID: 06120032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.63	Baseline	zhangji	06/16/20 14:03
DNX	6.95	Baseline	zhangji	06/16/20 14:03

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499164

Lab Sample ID: CCV 280-499164/7 Client Sample ID:

Date Analyzed: 06/17/20 18:02 Lab File ID: 06170007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.73	Baseline	zhangji	06/17/20 19:07

Lab Sample ID: CCV 280-499164/9 Client Sample ID:

Date Analyzed: 06/17/20 18:49 Lab File ID: 06170009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.63	Baseline	zhangji	06/17/20 19:19
DNX	6.95	Baseline	zhangji	06/17/20 19:19

Lab Sample ID: 280-137006-2 DL Client Sample ID: OS501-DP03-25 DL

Date Analyzed: 06/17/20 19:12 Lab File ID: 06170010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.75	Baseline	zhangji	06/17/20 20:02
1,3,5-Trinitrobenzene	8.93	Baseline	zhangji	06/17/20 20:02
MNX		Invalid Compound ID	zhangji	06/17/20 20:02

Lab Sample ID: 280-137006-3 DL Client Sample ID: OS001-DP03-35 DL

Date Analyzed: 06/17/20 19:35 Lab File ID: 06170011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetryl		Invalid Compound ID	zhangji	06/17/20 20:02

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499164

Lab Sample ID: CCV 280-499164/14 Client Sample ID:

Date Analyzed: 06/17/20 20:44 Lab File ID: 06170014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/17/20 21:16

Lab Sample ID: CCV 280-499164/15 Client Sample ID:

Date Analyzed: 06/17/20 21:53 Lab File ID: 009-1501.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.63	Baseline	zhangji	06/18/20 14:10
DNX	6.96	Baseline	zhangji	06/18/20 14:10

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499165

Lab Sample ID: CCV 280-499165/14 Client Sample ID:

Date Analyzed: 06/17/20 20:44 Lab File ID: 06170014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/17/20 21:16

Lab Sample ID: CCV 280-499165/15 Client Sample ID:

Date Analyzed: 06/17/20 21:53 Lab File ID: 009-1501.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.63	Baseline	zhangji	06/18/20 14:10
DNX	6.96	Baseline	zhangji	06/18/20 14:10

Lab Sample ID: MB 280-498875/1-A Client Sample ID:

Date Analyzed: 06/17/20 22:16 Lab File ID: 016-1601.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX		Invalid Compound ID	zhangji	06/18/20 14:10

Lab Sample ID: LCS 280-498875/2-A Client Sample ID:

Date Analyzed: 06/17/20 22:39 Lab File ID: 06170017.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/18/20 19:41

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499165

Lab Sample ID: 280-137006-4 RE Client Sample ID: OS001-DP03-45 RE

Date Analyzed: 06/17/20 23:25 Lab File ID: 06170019.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.79	Baseline	zhangji	06/18/20 19:42
4-Nitrotoluene		Invalid Compound ID	zhangji	06/18/20 19:43
MNX		Invalid Compound ID	zhangji	06/18/20 19:43
Nitrobenzene		Invalid Compound ID	zhangji	06/18/20 19:43
Tetryl		Invalid Compound ID	zhangji	06/18/20 19:44

Lab Sample ID: 280-137006-4 MS RE Client Sample ID: OS001-DP03-45 MS RE

Date Analyzed: 06/17/20 23:48 Lab File ID: 06170020.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/18/20 19:43
RDX	7.80	Baseline	zhangji	06/18/20 19:45
Tetryl	10.22	Baseline	zhangji	06/18/20 19:44

Lab Sample ID: 280-137006-4 MSD RE Client Sample ID: OS001-DP03-45 MSD RE

Date Analyzed: 06/18/20 00:11 Lab File ID: 06170021.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/18/20 19:44
RDX	7.80	Baseline	zhangji	06/18/20 19:45
Tetryl	10.23	Peak assignment corrected	zhangji	06/18/20 19:44

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499165

Lab Sample ID: 280-137006-4 REDL Client Sample ID: OS001-DP03-45 REDL

Date Analyzed: 06/18/20 00:34 Lab File ID: 06170022.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetryl		Invalid Compound ID	zhangji	06/18/20 19:49
2,4,6-Trinitrotoluene	11.26	Baseline	zhangji	06/18/20 19:46
2-Amino-4,6-dinitrotoluene	11.74	Baseline	zhangji	06/18/20 19:46

Lab Sample ID: 280-137006-4 MS REDL Client Sample ID: OS001-DP03-45 MS REDL

Date Analyzed: 06/18/20 00:57 Lab File ID: 06170023.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/18/20 19:47
RDX	7.80	Baseline	zhangji	06/18/20 19:47
Tetryl	10.22	Baseline	zhangji	06/18/20 19:47
2-Amino-4,6-dinitrotoluene	11.72	Baseline	zhangji	06/18/20 19:48
2,6-Dinitrotoluene	11.85	Baseline	zhangji	06/18/20 19:48

Lab Sample ID: 280-137006-4 MSD REDL Client Sample ID: OS001-DP03-45 MSD REDL

Date Analyzed: 06/18/20 01:20 Lab File ID: 06170024.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/18/20 19:48
RDX	7.80	Baseline	zhangji	06/18/20 19:48
2-Amino-4,6-dinitrotoluene	11.73	Baseline	zhangji	06/18/20 19:48
2,6-Dinitrotoluene	11.86	Baseline	zhangji	06/18/20 19:49

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499165

Lab Sample ID: CCV 280-499165/26 Client Sample ID:

Date Analyzed: 06/18/20 02:06 Lab File ID: 06170026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene	9.98	Incomplete Integration	zhangji	06/18/20 19:50

Lab Sample ID: CCV 280-499165/27 Client Sample ID:

Date Analyzed: 06/18/20 02:29 Lab File ID: 06170027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/18/20 14:56
DNX	6.95	Baseline	zhangji	06/18/20 14:57

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8330 DMT_00005	03/31/20	01/21/20	Acetonitrile, Lot 231453	5 mL	MNX,TNX,DNX_00032	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.02 ug/mL
.MNX,TNX,DNX_00032	12/31/19	ULTRA Scientific, Lot CS-5628			(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330 DMT_00006	02/28/21	04/15/20	Acetonitrile, Lot ACN_00232	5 mL	MNX,TNX,DNX_00043	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.02 ug/mL
.MNX,TNX,DNX_00043	02/28/21	ULTRA Scientific, Lot 006516106			(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330 LCS_00095	07/24/20	01/24/20	Acetonitrile, Lot ACN_00231	100 mL	8330LCSMix1_00113	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_00009	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
.8330LCSMix1_00113	07/31/24	Restek, Lot A0151407			(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_00009	05/31/24	Restek, Lot A0149387			(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
							Tetryl	1000 ug/mL
8330 LCS_00098	07/31/20	04/28/20	Acetonitrile, Lot Acetonitrile_00233	100 mL	8330_NG_Stk_00084	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_Stk_00085	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00091	1 mL	PETN	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					8330_PETN_Stk_00095	1 mL	PETN	100 ug/mL
					8330LCSMix1_00111	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_00011	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_00092	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00084	10/28/20		Restek, Lot A0151571		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_NG_Stk_00085	10/28/20		Restek, Lot A0151571		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00091	10/28/20		Restek, Lot A0158915		(Purchased Reagent)		PETN	5000 ug/mL
.8330_PETN_Stk_00095	10/28/20		Restek, Lot A0158915		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00111	10/28/20		Restek, Lot A0151407		(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_00011	10/28/20		Restek, Lot A0157533		(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
							Tetryl	1000 ug/mL
.PicricARestek_00092	10/02/20		Restek, Lot A0139087		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8330 LCS_00099	11/11/20	06/02/20	Acetonitrile, Lot Acetonitrile_00044	25 mL	8330 LCSMix2_00106	0.25 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
					8330_NG_AUX_00001	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_AUX_00002	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_AUX_00003	0.5 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00081	0.5 mL	PETN	100 ug/mL
					8330LCSMix1_00112	0.25 mL	1,3,5-Trinitrobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
					PicricARestek_00090	0.25 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330 LCSMix2_00106	11/11/20		Restek, Lot A0141002		(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
							Tetryl	1000 ug/mL
.8330_NG_AUX_00001	06/02/21		Restek, Lot A0153378		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_NG_AUX_00002	06/02/21		Restek, Lot A0153378		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_NG_AUX_00003	06/02/21		Restek, Lot A0153378		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_PETN_Stk_00081	03/31/21		Restek, Lot A0136306		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00112	11/11/20		Restek, Lot A0151407		(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
.PicricARestek_00090	06/02/21		Restek, Lot A0131892		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8330_OP_DMT_00006	02/24/21	02/24/20	Acetonitrile, Lot 0000196715	10 mL	MNX,TNX,DNX_00042	1 mL	MNX	11.67 ug/mL
.MNX,TNX,DNX_00042	02/28/21		ULTRA Scientific, Lot 006516106		(Purchased Reagent)		MNX	116.7 ug/mL
8330_OP_DMT_00008	02/28/21	04/30/20	Acetonitrile, Lot 0000249516	10 mL	MNX,TNX,DNX_00046	1 mL	DNX	10.01 ug/mL
							MNX	11.67 ug/mL
							TNX	10.01 ug/mL
.MNX,TNX,DNX_00046	02/28/21		ULTRA Scientific, Lot 006516106		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330IntermStk_00061	09/09/21	01/09/20	Acetonitrile, Lot 130057	10 mL	8330_NG_Stk_00075	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00061	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00075	08/31/22	Restek, Lot A0151571			(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
							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_00061	09/09/21	AccuStandard, Lot 214121302-02			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330IntermStk_00064	09/09/21	04/06/20	Acetonitrile, Lot 130057	10 mL	8330_NG_Stk_00075	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00061	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00075	08/31/22	Restek, Lot A0151571			(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
							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_00061	09/09/21	AccuStandard, Lot 214121302-02			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8330Surrogate_00110	05/17/20	12/17/19	Acetonitrile, Lot ACN_00223	250 mL	8330SurrStkSS_00145	0.25 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00158	0.25 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00160	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00161	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00145	03/31/23	Restek, Lot A0135839			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00158	07/31/24	Restek, Lot A0146866			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00160	10/28/22	Restek, Lot A0150790			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00161	07/31/24	Restek, Lot A0150790			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00114	11/07/20	05/07/20	Acetonitrile, Lot ACN_00234	100 mL	8330SurrStkSS_00157	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00157	11/07/20	Restek, Lot A0146866			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00115	11/07/20	05/13/20	Acetonitrile, Lot Acetonitrile_00044	100 mL	8330SurrStkSS_00166	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
.8330SurrStkSS_00166	11/30/24	Restek, Lot A0155113			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
8330Surrogate_00116	11/15/20	05/15/20	Acetonitrile, Lot Acetonitrile_00044	200 mL	8330SurrStkSS_00168	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00169	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
.8330SurrStkSS_00168	11/15/20	Restek, Lot A0155113			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00169	11/15/20	Restek, Lot A0155113			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL

Reagent

8330 LCS_00098

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20200429-91143.b\04290006.D

Lims ID: C18column:B16162 Inj. Date: 29-Apr-2020 19:29:58

Worklist ID: 280-0091143-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 3535
3 HMX	0.1000	0.0988	98.8	65-135	66-115
7 RDX	0.1000	0.0968	96.8	68-130	69-122
8 2,4,6-Trinitrophenol	0.1000	0.1027	102.7	80-120	63-135
10 1,3,5-Trinitrobenzene	0.1000	0.1037	103.7	73-125	62-127
11 1,3-Dinitrobenzene	0.1000	0.1029	102.9	78-120	59-131
12 Nitrobenzene	0.1000	0.1031	103.1	65-134	46-144
14 Tetryl	0.1000	0.1003	100.3	64-128	56-131
15 Nitroglycerin	1.00	0.9742	97.4	74-127	70-125
16 2,4,6-Trinitrotoluene	0.1000	0.1014	101.4	71-123	46-139
17 4-Amino-2,6-dinitrotolu	0.1000	0.0973	97.3	76-125	43-120
18 2-Amino-4,6-dinitrotolu	0.1000	0.1006	100.6	79-120	46-124
19 2,6-Dinitrotoluene	0.1000	0.1019	101.9	77-127	51-130
20 2,4-Dinitrotoluene	0.1000	0.0984	98.4	78-120	53-127
21 o-Nitrotoluene	0.1000	0.1039	103.9	70-127	37-138
22 p-Nitrotoluene	0.1000	0.1015	101.5	71-127	41-137
23 m-Nitrotoluene	0.1000	0.1043	104.3	73-125	31-140
24 PETN	1.00	0.9068	90.7	73-127	67-127

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

280-135793-A-1-A 280-135793-A-2-A 280-135793-A-3-A
280-135793-B-4-A 280-135793-A-5-A 280-135793-A-6-A
280-135871-A-1-A 280-135930-A-1-A 280-135930-A-2-A

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

480-168872-A-18-A 480-168872-A-19-A 480-168872-A-20-A
480-168872-A-21-A 600-204066-C-1-A

Reagent

8330 LCS_00099

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20200604-92107.b\06040006.D

Lims ID: C18column:B16162 Inj. Date: 04-Jun-2020 15:10:48

Worklist ID: 280-0092107-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
3 HMX	0.4000	0.4497	112.4	65-135	66-115	
7 RDX	0.4000	0.4082	102.1	68-130	69-122	
8 2,4,6-Trinitrophenol	0.4000	0.4552	113.8	80-120	63-135	
10 1,3,5-Trinitrobenzene	0.4000	0.4670	116.7	73-125	62-127	
11 1,3-Dinitrobenzene	0.4000	0.4525	113.1	78-120	59-131	
12 Nitrobenzene	0.4000	0.4580	114.5	65-134	46-144	
14 Tetryl	0.4000	0.4204	105.1	64-128	56-131	
15 Nitroglycerin	4.00	4.24	106.0	74-127	70-125	
16 2,4,6-Trinitrotoluene	0.4000	0.4581	114.5	71-123	46-139	
17 4-Amino-2,6-dinitrotolu	0.4000	0.3915	97.9	76-125	43-120	
18 2-Amino-4,6-dinitrotolu	0.4000	0.4340	108.5	79-120	46-124	
19 2,6-Dinitrotoluene	0.4000	0.4346	108.6	77-127	51-130	
20 2,4-Dinitrotoluene	0.4000	0.4315	107.9	78-120	53-127	
21 o-Nitrotoluene	0.4000	0.4112	102.8	70-127	37-138	
22 p-Nitrotoluene	0.4000	0.4272	106.8	71-127	41-137	
23 m-Nitrotoluene	0.4000	0.4348	108.7	73-125	31-140	
24 PETN	4.00	4.20	105.1	73-127	67-127	

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

280-136151-A-2-B 320-61052-D-3-A 320-61052-D-4-A
320-61052-D-5-A 320-61052-D-6-A 320-61052-D-7-A
320-61052-D-8-A 320-61052-D-9-A 320-61052-D-10-A
320-61052-D-11-A 320-61052-D-12-A 280-136408-B-2-A
280-136410-B-1-A 280-136946-A-6-A 280-136946-A-7-A
280-136946-A-8-A 280-136946-A-9-A

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

280-136951-C-1-A 280-136951-C-2-A 280-136951-C-3-A

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

600-205634-D-1-A

Reagent

8330 LCSMix2_00106

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. : 31451 **Lot No.:** A0141002

Description : 8330 Calibration Mix #2

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

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

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

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)	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 54.7830 µg/mL +/- 63.8824 µg/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene **CAS #** 19406-51-0 **Purity** 99%	(Lot ER070908-01)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 54.8926 µg/mL +/- 64.0101 µg/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene **CAS #** 35572-78-2 **Purity** 98%	(Lot 29550-55)	1,007.4 µg/mL	+/- 5.9839 µg/mL +/- 55.1906 µg/mL +/- 64.3577 µg/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot BCBB8606V)	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 54.7830 µg/mL +/- 63.8824 µg/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene **CAS #** 88-72-2 **Purity** 99%	(Lot GA01)	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 55.0021 µg/mL +/- 64.1379 µg/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene **CAS #** 99-99-0 **Purity** 99%	(Lot FAU01)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 54.8926 µg/mL +/- 64.0101 µg/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene **CAS #** 99-08-1 **Purity** 98%	(Lot FBO01)	1,003.5 µg/mL	+/- 5.9606 µg/mL +/- 54.9758 µg/mL +/- 64.1072 µg/mL	Gravimetric Unstressed Stressed

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

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

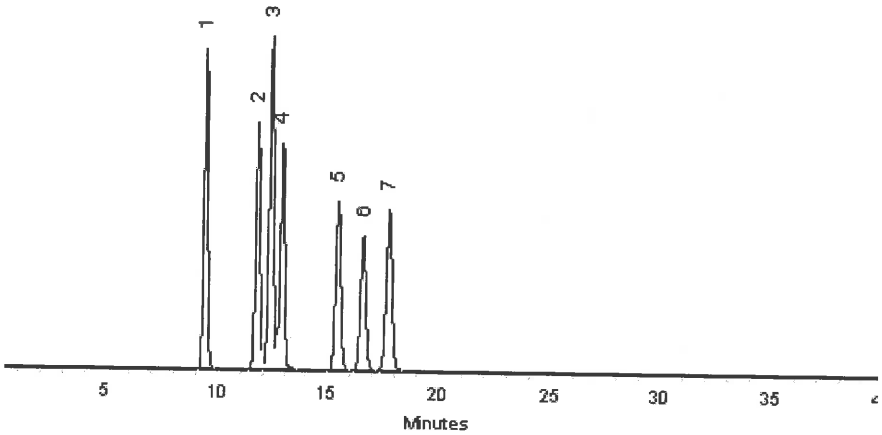
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Matt Fragassi - Mix Technician

Date Mixed: 23-Aug-2018 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 28-Aug-2018

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

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_NG_AUX_00001

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. : 31498 **Lot No.:** A0153378

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : September 30, 2024 **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 **Purity** 99% (Lot 170616JLM)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
			+/- 54.9656	µg/mL	Unstressed
			+/- 64.0953	µg/mL	Stressed

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

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

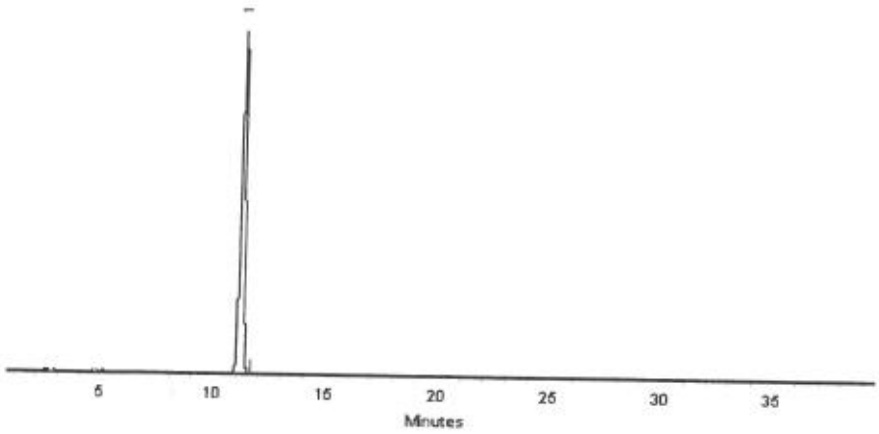
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 27-Sep-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 01-Oct-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_NG_AUX_00002

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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. : 31498 **Lot No.:** A0153378

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : September 30, 2024 **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 **Purity** 99% (Lot 170616JLM)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
			+/- 54.9656	µg/mL	Unstressed
			+/- 64.0953	µg/mL	Stressed

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

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

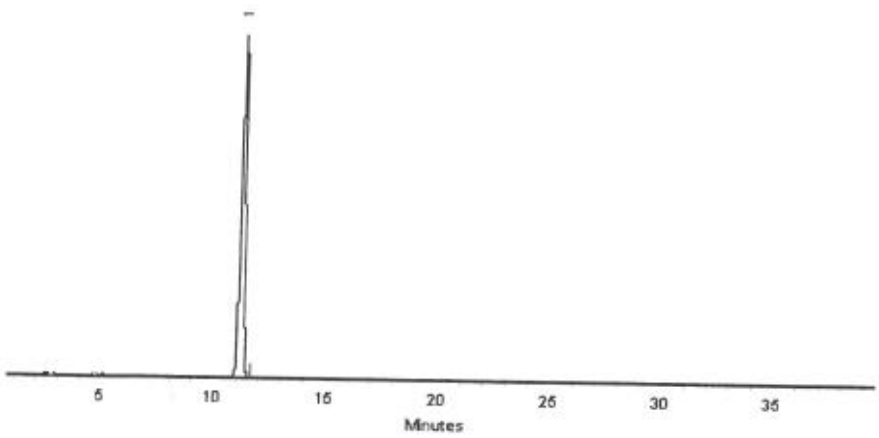
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 27-Sep-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 01-Oct-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_NG_AUX_00003

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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. : 31498 **Lot No.:** A0153378

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : September 30, 2024 **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 **Purity** 99%	(Lot 170616JLM)	1,003.3 µg/mL	+/- 5.9595 µg/mL +/- 54.9656 µg/mL +/- 64.0953 µg/mL		Gravimetric Unstressed Stressed

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

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

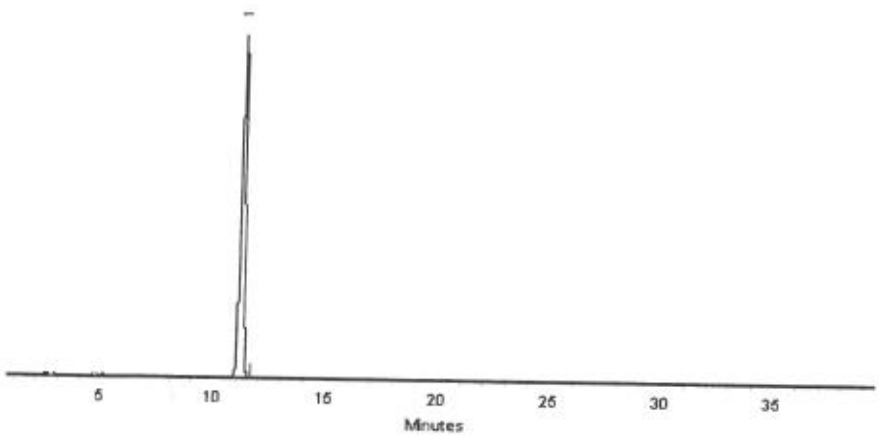
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 27-Sep-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 01-Oct-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_NG_Stk_00075

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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.:** A0151571

Description : Custom Nitroglycerin Standard

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

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

Expiration Date : August 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Nitroglycerin		5,036.0	µg/mL	+/-	46.8321	µg/mL	Gravimetric
	CAS # 55-63-0	(Lot 170616JLM)			+/-	278.2306	µg/mL	Unstressed
	Purity 99%				+/-	323.7234	µg/mL	Stressed

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

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

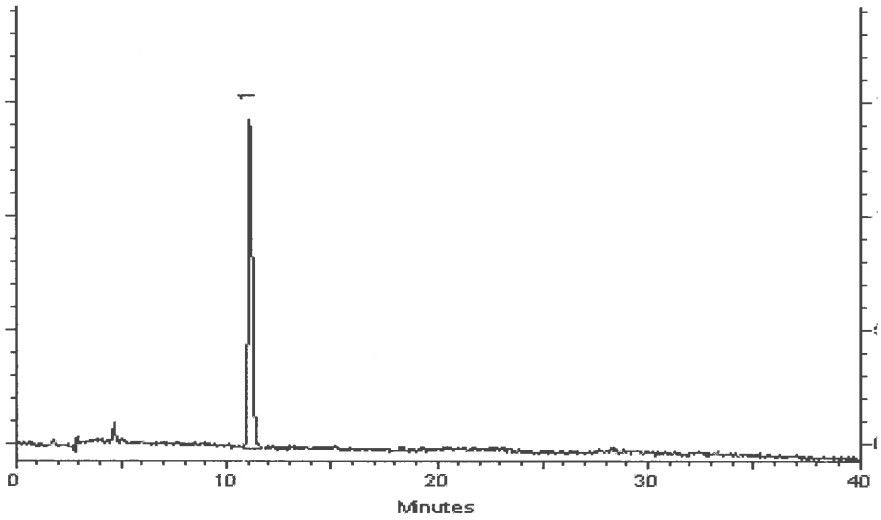
Flow Rate:
1.0 ml/min.

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.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Aug-2019

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

Reagent

8330_NG_Stk_00084

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CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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Certificate #3222.01

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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.:** A0151571

Description : Custom Nitroglycerin Standard

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

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

Expiration Date : August 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Nitroglycerin		5,036.0	µg/mL	+/-	46.8321	µg/mL	Gravimetric
	CAS # 55-63-0	(Lot 170616JLM)			+/-	278.2306	µg/mL	Unstressed
	Purity 99%				+/-	323.7234	µg/mL	Stressed

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

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

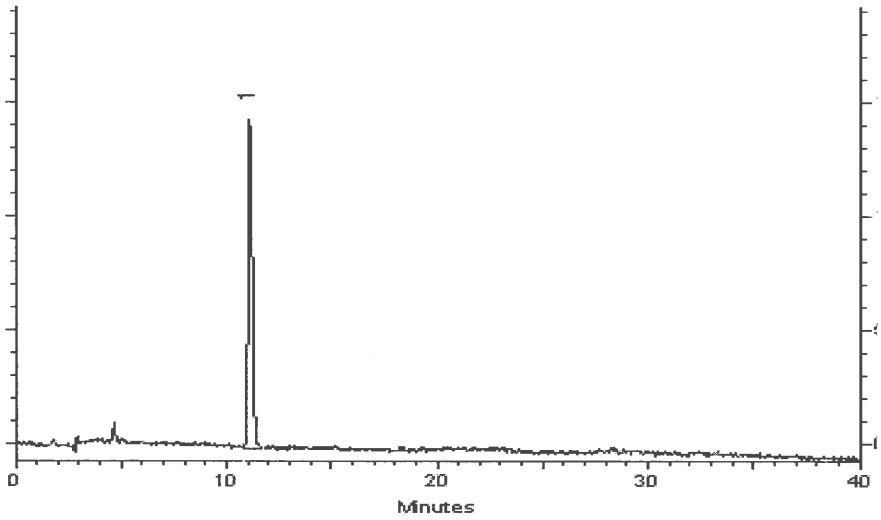
Flow Rate:
1.0 ml/min.

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.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Aug-2019

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

Reagent

8330_NG_Stk_00085

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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.:** A0151571

Description : Custom Nitroglycerin Standard

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

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

Expiration Date : August 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Nitroglycerin		5,036.0	µg/mL	+/-	46.8321	µg/mL	Gravimetric
	CAS # 55-63-0	(Lot 170616JLM)			+/-	278.2306	µg/mL	Unstressed
	Purity 99%				+/-	323.7234	µg/mL	Stressed

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

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

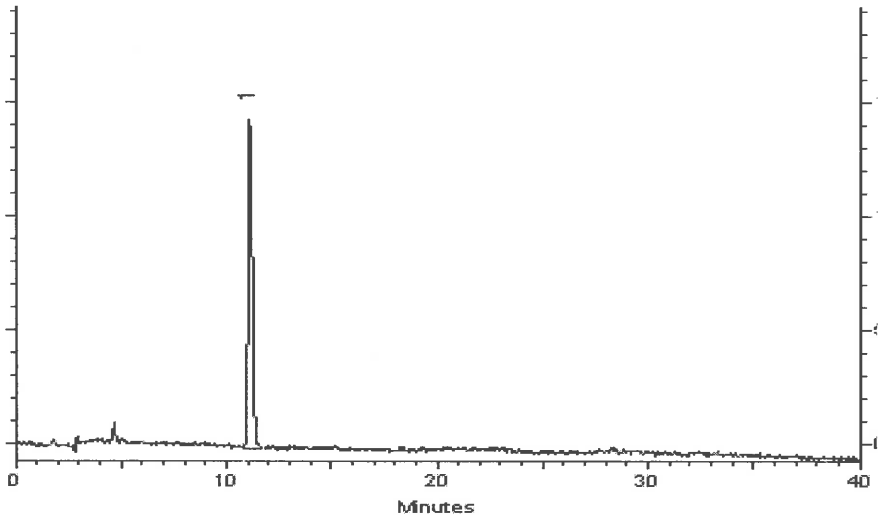
Flow Rate:
1.0 ml/min.

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.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Aug-2019

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

Reagent

8330_PETN_Stk_00081

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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.:** A0136306

Description : Custom PETN Standard

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

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

Expiration Date : March 31, 2021 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	PETN **CAS #** 78-11-5 (Lot 051108JLM) **Purity** 99%	5,028.0 µg/mL	+/- 46.7577	µg/mL	Gravimetric
			+/- 277.7886	µg/mL	Unstressed
			+/- 323.2092	µg/mL	Stressed

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

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

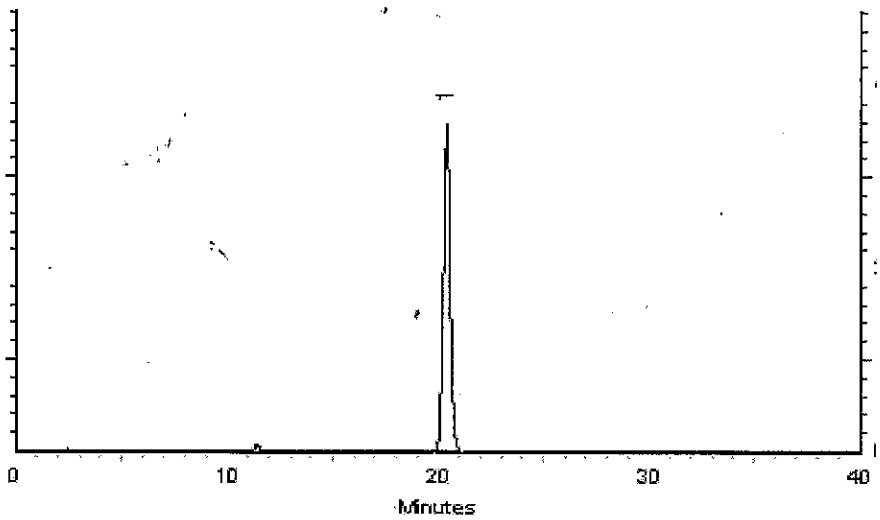
Flow Rate:
1.0 ml/min.

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.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 19-Mar-2018 **Balance:** 1128360905

Jennifer L Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-Mar-2018

REVIEWED

Manufactured under Restek's ISO 9001:2008 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 Guides 34 and 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

Reagent

8330_PETN_Stk_00087

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CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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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. : 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

CERTIFIED VALUES

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)

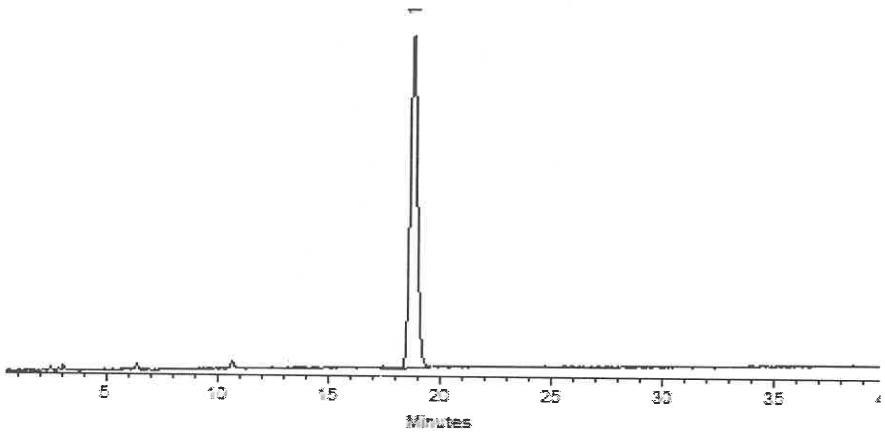
Flow Rate:
1.0 ml/min.

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

Reagent

8330_PETN_Stk_00091

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

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CERTIFIED REFERENCE MATERIAL

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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.:** A0158915

Description : Custom PETN Standard

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

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

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

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	PETN			5,000.0 µg/mL	+/-	46.4973	µg/mL	Gravimetric
	CAS #	78-11-5	(Lot 051108JLM)		+/-	276.2417	µg/mL	Unstressed
	Purity	99%			+/-	321.4093	µg/mL	Stressed

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

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

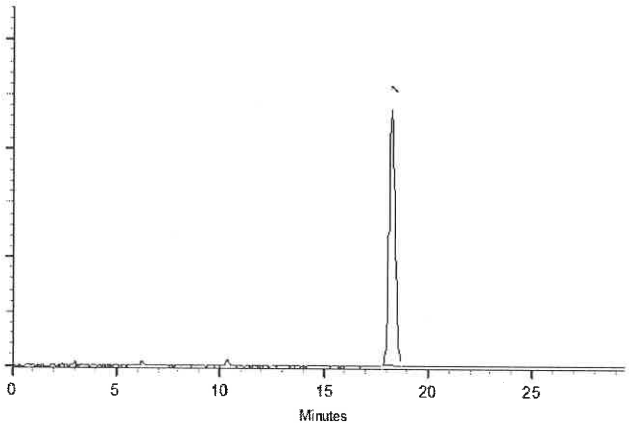
Flow Rate:
1.0 ml/min.

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.

Michael Maye

Date Mixed: 17-Mar-2020 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Mar-2020

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

Reagent

8330_PETN_Stk_00095

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Fax: (814)353-1309

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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.:** A0158915

Description : Custom PETN Standard

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

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

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

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	PETN			5,000.0 µg/mL	+/-	46.4973	µg/mL	Gravimetric
	CAS #	78-11-5	(Lot 051108JLM)		+/-	276.2417	µg/mL	Unstressed
	Purity	99%			+/-	321.4093	µg/mL	Stressed

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

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

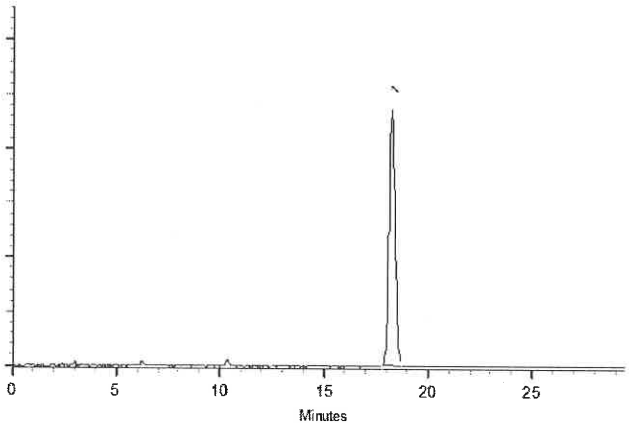
Flow Rate:
1.0 ml/min.

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.

Michael Maye

Date Mixed: 17-Mar-2020 **Balance:** 1127510105

Justine Alberteson - Operations Tech-ARM QC

Date Passed: 18-Mar-2020

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

Reagent

8330LCSMix1_00111

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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. : 31450 **Lot No.:** A0151407

Description : 8330 Calibration Mix #1

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

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX **CAS #** 2691-41-0 **Purity** 97%	(Lot 190402JLM)	1,004.9 µg/mL	+/- 5.9689 µg/mL +/- 55.0525 µg/mL +/- 64.1967 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** 97%	(Lot DJ5QO)	1,003.0 µg/mL	+/- 5.9574 µg/mL +/- 54.9463 µg/mL +/- 64.0727 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot BCBN4329V)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot SHBJ3622)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene **CAS #** 118-96-7 **Purity** 99%	(Lot 5737200)	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL	Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed

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

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

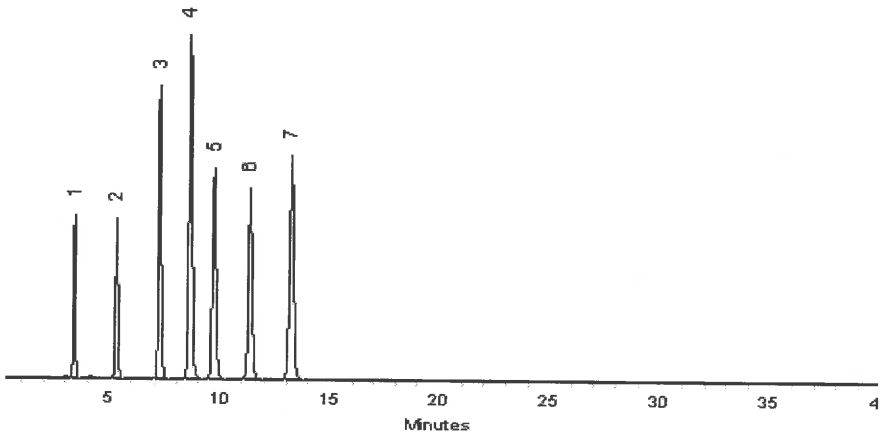
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

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

Reagent

8330LCSMix1_00112

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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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. : 31450 **Lot No.:** A0151407

Description : 8330 Calibration Mix #1

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

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX **CAS #** 2691-41-0 **Purity** 97%	(Lot 190402JLM)	1,004.9 µg/mL	+/- 5.9689 µg/mL +/- 55.0525 µg/mL +/- 64.1967 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** 97%	(Lot DJ5QO)	1,003.0 µg/mL	+/- 5.9574 µg/mL +/- 54.9463 µg/mL +/- 64.0727 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot BCBN4329V)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot SHBJ3622)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene **CAS #** 118-96-7 **Purity** 99%	(Lot 5737200)	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL	Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed

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

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

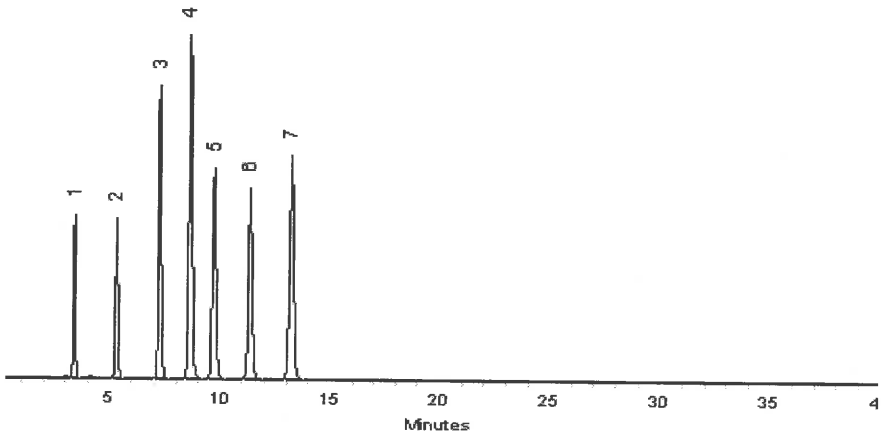
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

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

Reagent

8330LCSMix1_00113

110 Benner Circle
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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. : 31450 **Lot No.:** A0151407

Description : 8330 Calibration Mix #1

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

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX **CAS #** 2691-41-0 **Purity** 97%	(Lot 190402JLM)	1,004.9 µg/mL	+/- 5.9689 µg/mL +/- 55.0525 µg/mL +/- 64.1967 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** 97%	(Lot DJ5QO)	1,003.0 µg/mL	+/- 5.9574 µg/mL +/- 54.9463 µg/mL +/- 64.0727 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot BCBN4329V)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot SHBJ3622)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene **CAS #** 118-96-7 **Purity** 99%	(Lot 5737200)	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL	Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690)	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed

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

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

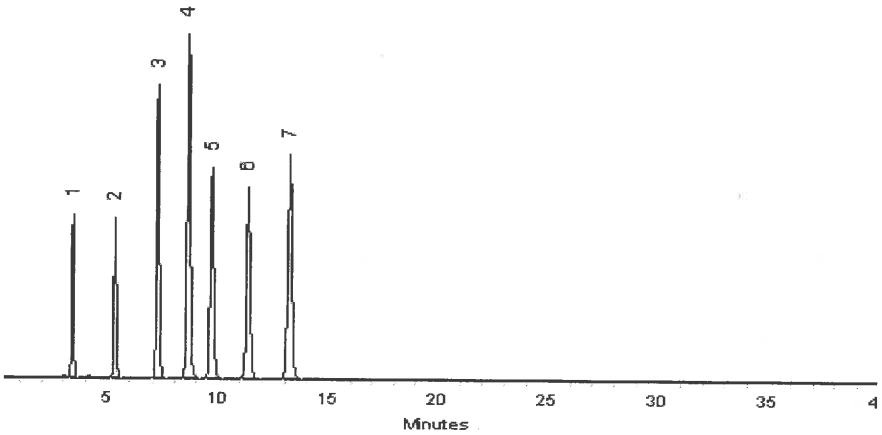
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

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

Reagent

8330LCSmix2_00009

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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. : 31451 **Lot No.:** A0149387

Description : 8330 Calibration Mix #2

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

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

Expiration Date : May 31, 2024 **Storage:** 10°C or colder

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)	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 55.0021 µg/mL +/- 64.1379 µg/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene **CAS #** 19406-51-0 **Purity** 99%	(Lot ER070908-01)	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 54.7830 µg/mL +/- 63.8824 µg/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene **CAS #** 35572-78-2 **Purity** 98%	(Lot 29550-55)	999.6 µg/mL	+/- 5.9373 µg/mL +/- 54.7611 µg/mL +/- 63.8568 µg/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot 1437483V)	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 55.0021 µg/mL +/- 64.1379 µg/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene **CAS #** 88-72-2 **Purity** 99%	(Lot GA01)	1,010.0 µg/mL	+/- 5.9991 µg/mL +/- 55.3308 µg/mL +/- 64.5212 µg/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene **CAS #** 99-99-0 **Purity** 99%	(Lot FAU01)	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 55.1117 µg/mL +/- 64.2657 µg/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene **CAS #** 99-08-1 **Purity** 98%	(Lot 07329LG)	1,007.4 µg/mL	+/- 5.9839 µg/mL +/- 55.1906 µg/mL +/- 64.3577 µg/mL	Gravimetric Unstressed Stressed

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

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

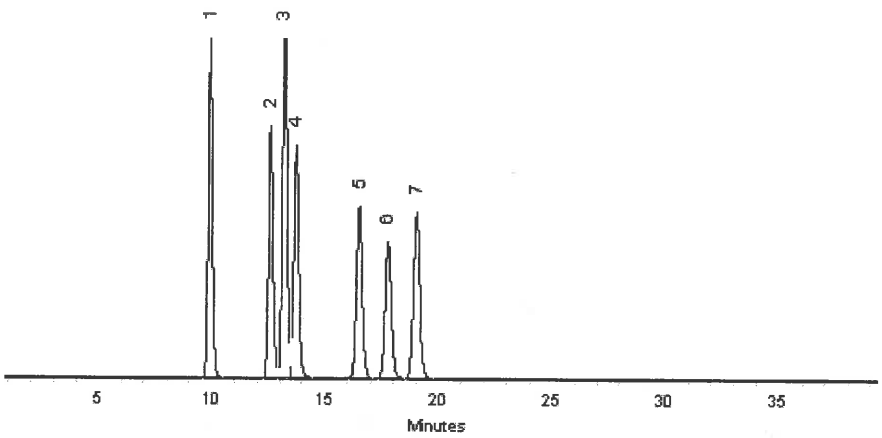
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Lane Kibe - Mix Technician

Date Mixed: 21-May-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2019

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

Reagent

8330LCSmix2_00011

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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. : 31451 **Lot No.:** A0157533

Description : 8330 Calibration Mix #2

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

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

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Tetryl		1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 479-45-8	(Lot 091120JLM)		+/- 55.0021	µg/mL	Unstressed
	Purity 99%			+/- 64.1379	µg/mL	Stressed
2	4-Amino-2,6-dinitrotoluene		1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 19406-51-0	(Lot ER070908-01)		+/- 55.0021	µg/mL	Unstressed
	Purity 99%			+/- 64.1379	µg/mL	Stressed
3	2-Amino-4,6-dinitrotoluene		999.6 µg/mL	+/- 5.9373	µg/mL	Gravimetric
	CAS # 35572-78-2	(Lot 29550-55)		+/- 54.7611	µg/mL	Unstressed
	Purity 98%			+/- 63.8568	µg/mL	Stressed
4	2,6-Dinitrotoluene		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot BCBB8606)		+/- 54.8926	µg/mL	Unstressed
	Purity 99%			+/- 64.0101	µg/mL	Stressed
5	2-Nitrotoluene		1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 88-72-2	(Lot BCBZ7826)		+/- 55.0021	µg/mL	Unstressed
	Purity 99%			+/- 64.1379	µg/mL	Stressed
6	4-Nitrotoluene		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 99-99-0	(Lot FAU01)		+/- 54.7830	µg/mL	Unstressed
	Purity 99%			+/- 63.8824	µg/mL	Stressed
7	3-Nitrotoluene		1,003.5 µg/mL	+/- 5.9606	µg/mL	Gravimetric
	CAS # 99-08-1	(Lot FBO01)		+/- 54.9758	µg/mL	Unstressed
	Purity 98%			+/- 64.1072	µg/mL	Stressed

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

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

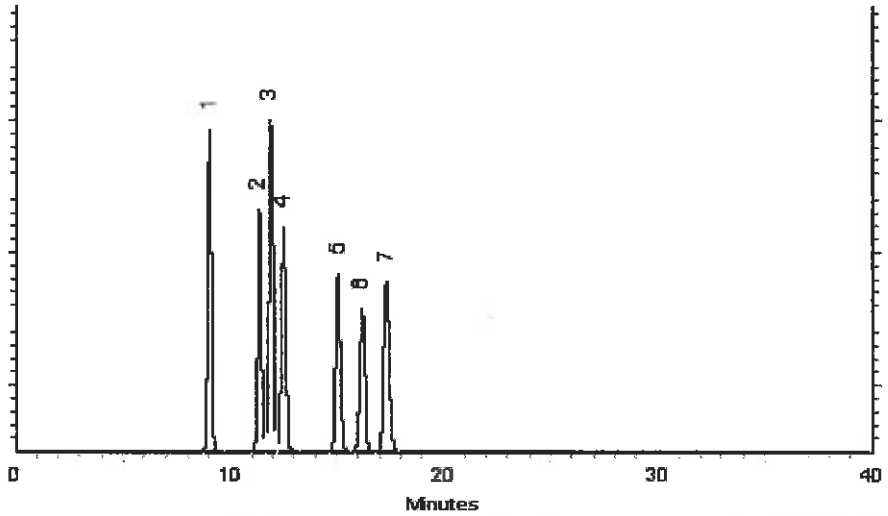
Flow Rate:
1.0 ml/min.

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.

Clara Windle - Operations Technician I

Date Mixed: 06-Feb-2020 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 10-Feb-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)	< 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

8330PAStkPS_00061

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: 214121302-02
Solvent: Acetonitrile (50%)
Methanol (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Aug 9, 2019
Expiration: Sep 9, 2021
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 % (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

AccuStandard®, Inc.
125 Market St., New Haven, CT 06513 USA
Tel: 203-786-5290 Fax: 203-786-5287

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: M-8330-ADD-3

Description: Picric Acid in Acetonitrile/Methanol Blend

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.
125 Market St.
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+001-203-502-7070 (International)

24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements

Signal Word: Danger

Hazard Codes:

H225 - Highly Flammable (Flammable liquids, category 2)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H319 - Causes severe eye irritation. (Eye damage/irritation, category 2A)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

H336 - Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

H360 - California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

H370 - Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

Precautionary Codes:

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

SECTION 2 - HAZARDS IDENTIFICATION *- continued*

2.1 - GHS Label Elements *- continued*

P260 - Do not breathe vapor.

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P340 - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

P352 - Skin contact: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Highly Flammable (Flammable liquids, category 2)

Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

After ingestion or inhalation, initial symptoms may be only that of mild intoxication, but may become severe after 12 or 18 hours.

Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

2.2.2 - Potential Health Effects

Causes severe eye irritation. (Eye damage/irritation, category 2A)

Irritating to skin. (Skin corrosion/irritation, category 2)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

Irritating to mucous membrane and upper respiratory system.

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

May be harmful if swallowed. (Acute toxicity, oral, category 5)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Picric Acid in Acetonitrile/Methanol Blend

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)		
Analyte	CAS #	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
Picric acid	88-89-1	0.010	0.1			0.1		
Acetonitrile	75-05-8	49.995				70		
Methanol	67-56-1	49.995				260		

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Acids
Bases
Oxidizers

Hazardous Decomposition: Hydrogen cyanide (HCN); Carbon oxides; Nitrogen oxides Forms HCN when heated to about 120 °C

Hazardous Polymerization: Will not occur

Condition to Avoid: Heat; Contact with ignition sources

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): N/A

LD50 (Dermal) : N/A

LC50 (Inhalation): N/A

No specific human health toxicity information is available for this product. Information provided is based on similar products.

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: N/A

No specific environmental toxicity information is available for this product. It is not expected to be an environmental concern.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)

UN Number: UN1993

Class: 3

Packing Group: II

Proper Shipping Name: Flammable liquid, n.o.s. (Acetonitrile, Methanol)

Poison by Inhalation: No

Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

All components are listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

HMIS/NFPA HAZARD INDEX

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

* - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe

**** End of Document ****

Reagent

8330Surrogate_00110

eurofins | Environment Testing TestAmerica

8330Surrogate_00110

good ✓

Reagent ID: 8330Surrogate_00110

		Expiration Date:	05/17/2020
Description:	10ug/mL 1,2-Dinitrobenzene	Laboratory:	Eurofins TestAmerica, Denver
No. of Bottles:	1	Prepared By:	Bourgery, David F
Storage Location:	Explosives Prep	Solvent:	Acetonitrile
Reagent Volume:	250.000 mL	Solvent Lot:	ACN_00223
Creation Date:	12/17/2019		
Open Date:			
Container(s):	6017392		

WL 88127 → C18

Comment: Stored Frozen. 6 month expiration date. Take 1mL of 1,2 Dinitrobenzene (8330SurrStock) and Dilute to 100 mL in ACN. Mulitply recipe as needed.

POS #6

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
1,2-Dinitrobenzene	8330SurrStkSS_00145	03/31/2023	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00145	03/31/2023	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00158	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00158	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00160	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00160	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00161	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00161	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
8330SurrStkSS_00145	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	03/31/23	Restek	A0135839	31453	0.25000	mL
8330SurrStkSS_00158	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0146866	31453	0.25000	mL
8330SurrStkSS_00160	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0150790	31453	1.00000	mL
8330SurrStkSS_00161	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0150790	31453	1.00000	mL

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromna\Denver\ChromData\CHHPLC_X\20191220-88127.b\12200006.D

Lims ID: C18column:B16162 Inj. Date: 20-Dec-2019 11:19:02

Worklist ID: 280-0088127-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
$ 9 1,2-Dinitrobenzene	0.4000	0.3843	96.1	83-119	63-127	

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

280-132090-A-2-A	280-132090-A-3-A	280-132090-A-4-A
280-132090-A-5-A	280-132090-A-6-A	280-132090-A-7-A
280-132090-A-8-A	280-132031-A-1-A	280-132031-A-2-A
280-132031-A-3-A	280-132031-A-4-A	280-131963-A-1-B
280-131963-B-2-A	280-131963-A-3-A	280-131963-B-4-A
280-131977-A-1-A	280-131977-B-2-A	280-131977-B-3-A
280-131977-A-4-A	280-131977-A-5-A	280-131977-A-6-A

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

280-131996-A-4-A	280-131996-A-5-A	280-131996-A-6-A
280-131996-A-7-A	280-131996-A-8-A	280-131996-A-9-A
280-131996-A-11-A	280-131996-A-12-A	280-131996-A-13-A
280-131996-A-14-A	280-131996-A-15-A	280-131996-A-1-A
280-131996-A-2-A	280-131996-A-3-A	280-131996-A-10-A

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

280-132013-A-1-A	600-197143-C-1-A	280-131992-C-1-A
280-131988-A-1-A	280-131988-A-2-A	280-131988-A-3-A
280-131988-B-4-A		

Reagent

8330Surrogate_00114

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\G2_LUNA\20200507-91339.b\05070004.D

Lims ID: CaCl2_Sol_00054 Inj. Date: 07-May-2020 12:25:53

Worklist ID: 280-0091339-004 Instrument: CHHPLC_G2_LUNA

Method: G2_8330_Luna

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_
$ 10 1,2-Dinitrobenzene	0.2000	0.1868	93.4	83-122

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

280-135356-A-2-D

Reagent

8330Surrogate_00115

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20200514-91516.b\05140006.D

Lims ID: C18column:B16162 Inj. Date: 14-May-2020 13:23:12

Worklist ID: 280-0091516-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_
$ 9 1,2-Dinitrobenzene	0.5000	0.4872	97.4	83-122

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

280-135985-A-1-F	280-135985-A-2-B	280-135985-A-3-B
280-135985-A-4-B	280-135985-A-5-B	280-135985-A-6-B
280-135985-A-7-B	280-135985-A-8-B	280-135985-A-9-B
280-135985-A-10-B	280-135985-A-11-B	280-135985-A-12-B
280-135985-A-13-B	280-135985-A-14-B	280-135985-A-15-B
280-135985-A-16-B	280-135985-A-17-B	280-135985-A-18-B
280-135985-A-19-B	280-135985-A-20-B	280-135985-A-21-B
280-135985-A-22-F	280-135985-A-23-B	280-135985-A-24-B
280-135985-A-25-B	280-135985-A-26-B	280-135985-A-27-B
280-135985-A-28-B	280-135985-A-29-B	280-135985-A-30-B
280-135985-A-31-B		

Reagent

8330Surrogate_00116

Preliminary Report

Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200515-91560.b\05150003.D				
Lims ID:	MeOH=0000129165				
Client ID:					
Sample Type:	Client				
Inject. Date:	15-May-2020 15:31:37	ALS Bottle#:	6	Worklist Smp#:	3
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MeOH=0000129165				
Misc. Info.:	280-0091560-003				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200515-91560.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 16:18:31	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0318				

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.5000	0.4870	97.40

Reagent

8330SurrStkSS_00145

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 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. : 31453 **Lot No.:** A0135839

Description : 8330 Surrogate Mix

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

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

Expiration Date : March 31, 2023 **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		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 528-29-0	(Lot MKBW2921V)		+/- 56.0822	µg/mL	Unstressed
	Purity 99%			+/- 57.3938	µg/mL	Stressed

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

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

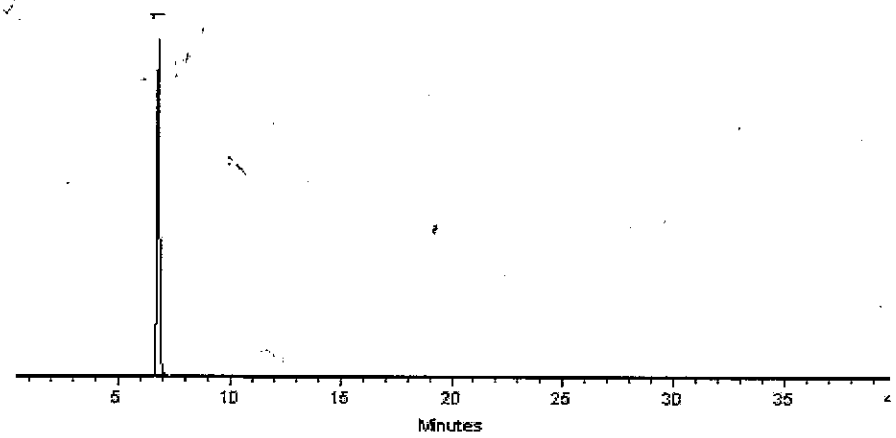
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Dustin J Lidgett

Dustin Lidgett - Mix Technician **Date Mixed:** 05-Mar-2018 **Balance:** 1128360905

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 09-Mar-2018

Manufactured under Restek's ISO 9001:2008 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 Guides 34 and 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

Reagent

8330SurrStkSS_00157

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.:** A0146866

Description : 8330 Surrogate Mix

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

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

Expiration Date : March 31, 2024 **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		1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0	(Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%			+/- 57.5660	µg/mL	Stressed

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

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

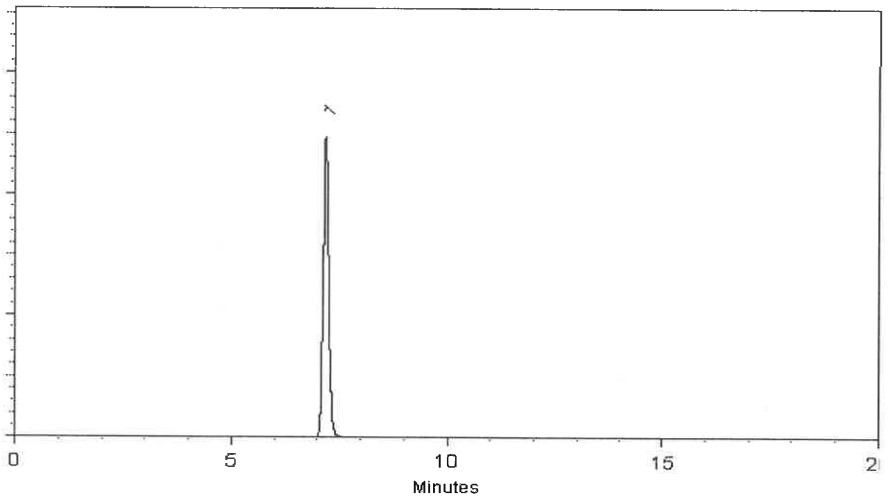
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Date Mixed: 11-Mar-2019 **Balance:** 1128353505

Fang-Yun Lo - QC Analyst

Date Passed: 14-Mar-2019

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

Reagent

8330SurrStkSS_00158

RESTEK® CERTIFIED REFERENCE MATERIAL

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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.:** A0150790

Description : 8330 Surrogate Mix

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

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

Expiration Date : July 31, 2024 **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	1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%		+/- 57.5660	µg/mL	Stressed

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

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

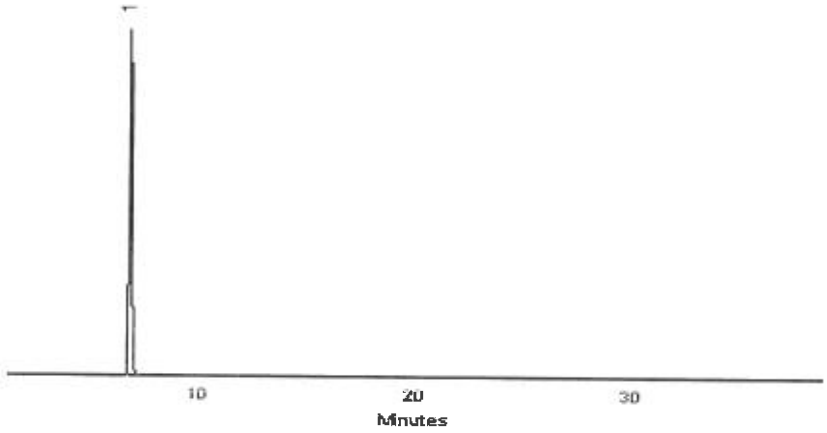
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

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

Reagent

8330SurrStkSS_00160

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Reference Material Producer
Certificate #3222.01

Certificate of Analysis

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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.:** A0150790

Description : 8330 Surrogate Mix

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

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

Expiration Date : July 31, 2024 **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	1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%		+/- 57.5660	µg/mL	Stressed

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

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

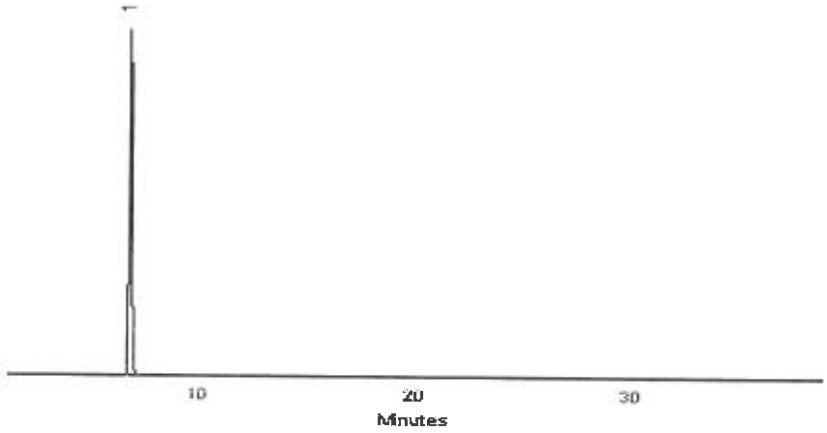
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

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

Reagent

8330SurrStkSS_00161

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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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.:** A0150790

Description : 8330 Surrogate Mix

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

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

Expiration Date : July 31, 2024 **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	1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%		+/- 57.5660	µg/mL	Stressed

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

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

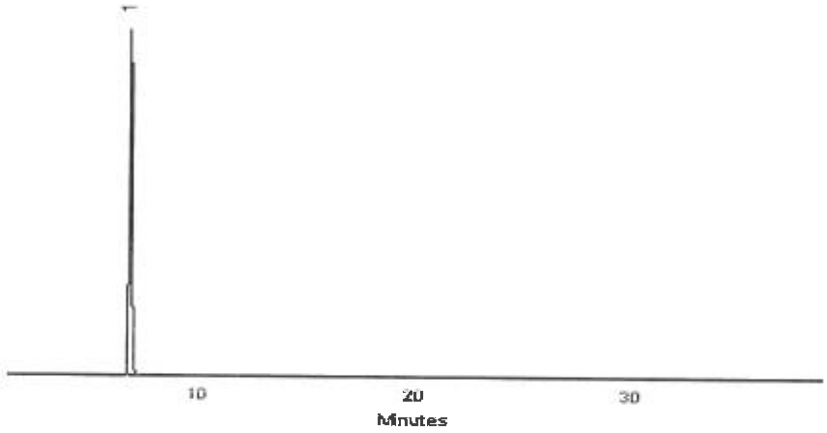
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

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

Reagent

8330SurrStkSS_00166

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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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.:** A0155113

Description : 8330 Surrogate Mix

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

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

Expiration Date : November 30, 2024 **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		1,004.0 µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 528-29-0	(Lot MKCH6067)		+/-	56.3065	µg/mL	Unstressed
	Purity 99%			+/-	57.6234	µg/mL	Stressed

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

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

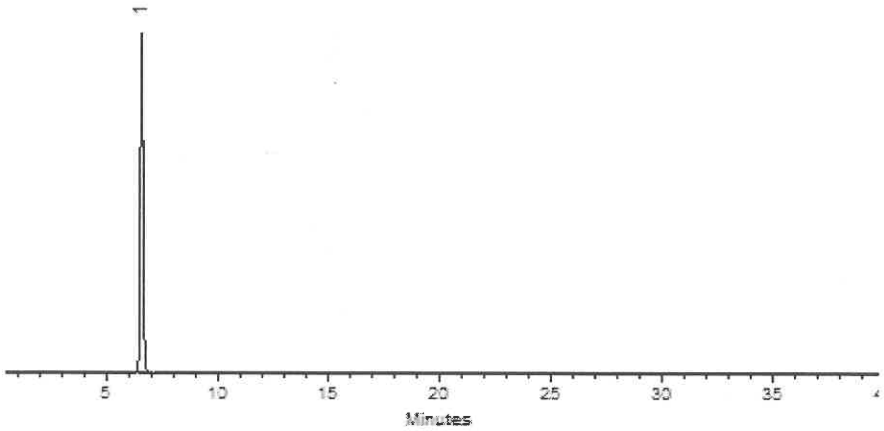
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 15-Nov-2019 **Balance:** 1128342314

Jennifer L Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 20-Nov-2019

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

Reagent

8330SurrStkSS_00168

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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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.:** A0155113

Description : 8330 Surrogate Mix

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

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

Expiration Date : November 30, 2024 **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		1,004.0 µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 528-29-0	(Lot MKCH6067)		+/-	56.3065	µg/mL	Unstressed
	Purity 99%			+/-	57.6234	µg/mL	Stressed

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

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

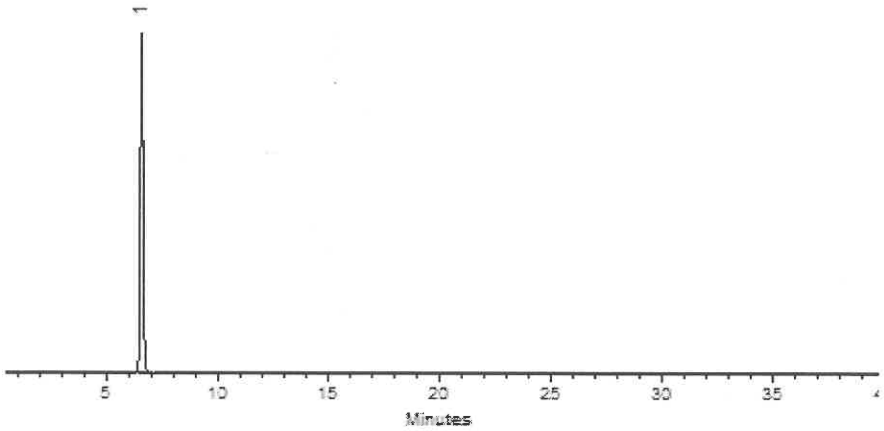
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 15-Nov-2019 **Balance:** 1128342314

Jennifer L Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 20-Nov-2019

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

Reagent

8330SurrStkSS_00169

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.:** A0155113

Description : 8330 Surrogate Mix

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

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

Expiration Date : November 30, 2024 **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		1,004.0 µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 528-29-0	(Lot MKCH6067)		+/-	56.3065	µg/mL	Unstressed
	Purity 99%			+/-	57.6234	µg/mL	Stressed

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

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

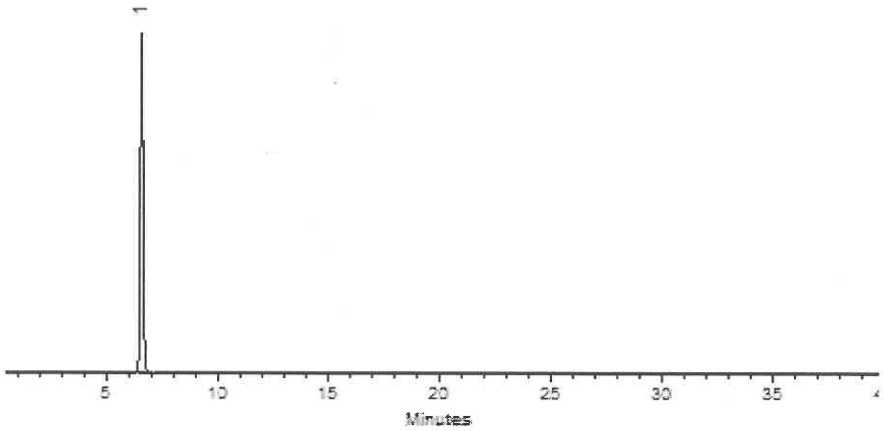
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 15-Nov-2019 **Balance:** 1128342314

Jennifer L Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 20-Nov-2019

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

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

MNX,TNX,DNX_00032

Agilent

Certificate of Analysis
ISO Guide 34

Custom Standard

Product Number:	CUS-23984			**Page:**	1 of 1
Lot Number:	CS-5628	**Lot Issue Date:**	16-Nov-2018	**Expiration Date:**	31-Dec-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. 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
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)		RM12428	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane		RM12428	100.1 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane		RM12428	116.7 ± 0.6 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.

Monica Bourgeois
QMS Representative

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 Managment System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No.
AT-1937

ORG ver 1.1

250 Smith Street North Kingstown, Rhode Island 02852 **www.ultrasci.com**

Reagent

MNX,TNX,DNX_00042

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984 **Lot Issue Date:** 24-Jan-2020

Lot Number: 0006516106 **Expiration Date:** 28-Feb-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
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 ± 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

Certificate of Analysis

Product Number: CUS-23984 **Lot Number:** 0006516106

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

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

ISO 17025 Cert
No. AT-1937

Reagent

MNX,TNX,DNX_00043

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984 **Lot Issue Date:** 24-Jan-2020

Lot Number: 0006516106 **Expiration Date:** 28-Feb-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
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 ± 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

Certificate of Analysis

Product Number: CUS-23984 **Lot Number:** 0006516106

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

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: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025 Cert
No. AT-1937

Reagent

MNX,TNX,DNX_00046

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984 **Lot Issue Date:** 24-Jan-2020

Lot Number: 0006516106 **Expiration Date:** 28-Feb-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
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 ± 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

Certificate of Analysis

Product Number: CUS-23984 **Lot Number:** 0006516106

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

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: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025 Cert No. AT-1937

Reagent

PicricARestek_00090

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 Guide 34 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. : 31499 **Lot No.:** A0131892

Description : Picric Acid Standard

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

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

Expiration Date : October 31, 2022 **Storage:** 10°C or colder

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)	1,004.9 µg/mL	+/- 5.9689	µg/mL	Gravimetric
			+/- 55.0525	µg/mL	Unstressed
			+/- 64.1967	µg/mL	Stressed

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

Specific Reference Material Notes:
This is a derivatized analysis.

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

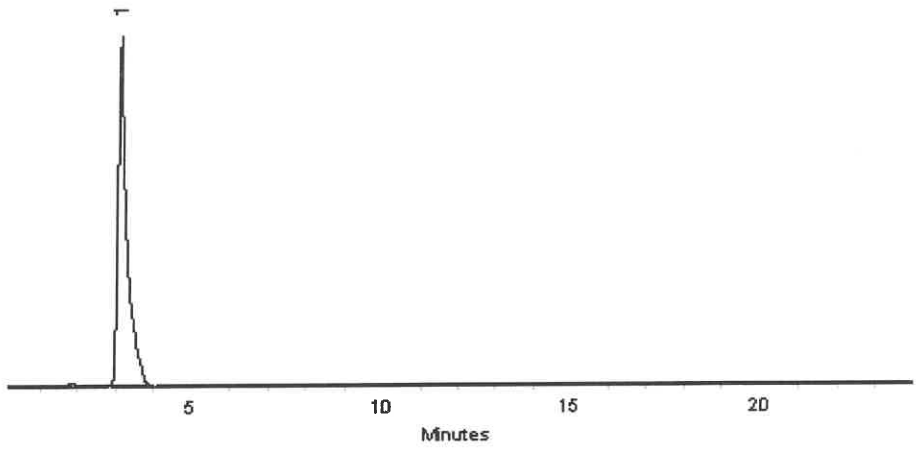
Flow Rate:
1.0 ml/min.

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.

Matt Fragassi - Mix Technician

Date Mixed: 25-Oct-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 30-Oct-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

PicricARestek_00092

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. : 31499 **Lot No.:** A0139087

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Picric Acid **CAS #** 88-89-1 (Lot 06130CU) **Purity** 97%	1,001.0 µg/mL	+/- 5.9459	µg/mL	Gravimetric
			+/- 54.8400	µg/mL	Unstressed
			+/- 63.9488	µg/mL	Stressed

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

Specific Reference Material Notes:
This is a derivatized analysis.

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

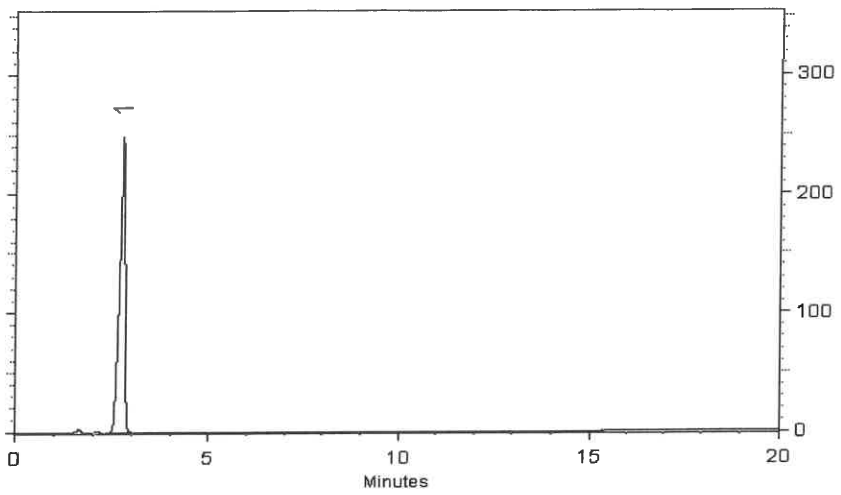
Flow Rate:
1.0 ml/min.

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.

Matt Fragassi - Mix Technician

Date Mixed: 20-Jun-2018 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 28-Jun-2018

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.: 280-137006-1

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 #
OS001-DP03-25	280-137006-1		90
OS001-DP03-25	280-137006-1	97 M	
OS001-DP03-25 DL	280-137006-1 DL		80 Q D
OS001-DP03-25 DL	280-137006-1 DL	113 M D	
OS501-DP03-25	280-137006-2		96
OS501-DP03-25	280-137006-2	97 M	
OS501-DP03-25 DL	280-137006-2 DL		88 M
OS501-DP03-25 DL	280-137006-2 DL	116 M	
OS001-DP03-35	280-137006-3		97
OS001-DP03-35	280-137006-3	83	
OS001-DP03-35 DL	280-137006-3 DL		89 M
OS001-DP03-35 DL	280-137006-3 DL	102	
OS001-DP03-45	280-137006-4		96
OS001-DP03-45	280-137006-4	94	
OS001-DP03-45 DL	280-137006-4 DL		47 Q D
OS001-DP03-45 DL	280-137006-4 DL	124 Q D	
OS001-DP03-45 RE	280-137006-4 RE		101
OS001-DP03-45 RE	280-137006-4 RE	96	
OS001-DP03-45 REDL	280-137006-4 REDL		95
OS001-DP03-45 REDL	280-137006-4 REDL	95	
	MB 280-496861/1-A	94	
	MB 280-497003/1-A	95	
	MB 280-498875/1-A	100	
	LCS 280-496861/2-A	95	
	LCS 280-496861/4-A	95	
	LCS 280-497003/2-A	99	
	LCS 280-497003/4-A	102	
	LCS 280-498875/2-A	95	
	LCS 280-498875/3-A	94	
	LCSD 280-496861/3-A	96	

QC LIMITS

12DNB = 1,2-Dinitrobenzene 83-119

Column to be used to flag recovery values

FORM II 8330A

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

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 #
	LCSD 280-497003/3-A	99	
	LCSD 280-497003/5-A	103	
OS001-DP03-45 MS	280-137006-4 MS	89	
OS001-DP03-45 MS RE	280-137006-4 MS RE	91	
OS001-DP03-45 MS REDL	280-137006-4 MS REDL	97	
OS001-DP03-45 MSD	280-137006-4 MSD	71 Q	
OS001-DP03-45 MSD RE	280-137006-4 MSD RE	97	
OS001-DP03-45 MSD REDL	280-137006-4 MSD REDL	104	

	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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06110023.D

Lab ID: LCS 280-496861/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.11	105	73-125	
1,3-Dinitrobenzene	2.00	2.00	100	78-120	
2,4,6-Trinitrotoluene	2.00	2.09	105	71-123	
2,4-Dinitrotoluene	2.00	1.85	93	78-120	
2,6-Dinitrotoluene	2.00	2.03	101	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.81	90	79-120	
2-Nitrotoluene	2.00	1.62	81	70-127	
3-Nitrotoluene	2.00	1.80	90	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.68	84	76-125	
4-Nitrotoluene	2.00	1.58	79	71-127	
HMX	2.00	2.00	100	65-135	
Nitrobenzene	2.00	1.88	94	65-134	
RDX	2.00	1.96	98	68-130	
Tetryl	2.00	1.90	95	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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06110025.D

Lab ID: LCS 280-496861/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	2.11	91	57-132	M

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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06120022.D

Lab ID: LCS 280-497003/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.16	108	73-125	
1,3-Dinitrobenzene	2.00	2.01	101	78-120	
2,4,6-Trinitrotoluene	2.00	2.10	105	71-123	
2,4-Dinitrotoluene	2.00	1.87	94	78-120	
2,6-Dinitrotoluene	2.00	2.00	100	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.80	90	79-120	
2-Nitrotoluene	2.00	1.61	81	70-127	
3-Nitrotoluene	2.00	1.75	87	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.67	84	76-125	
4-Nitrotoluene	2.00	1.70	85	71-127	
HMX	2.00	2.01	101	65-135	M
Nitrobenzene	2.00	1.83	92	65-134	
RDX	2.00	1.94	97	68-130	
Tetryl	2.00	1.91	96	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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06120024.D

Lab ID: LCS 280-497003/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	2.18	93	57-132	

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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06170017.D

Lab ID: LCS 280-498875/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.35	118	73-125	
1,3-Dinitrobenzene	2.00	2.23	111	78-120	
2,4,6-Trinitrotoluene	2.00	2.28	114	71-123	
2,4-Dinitrotoluene	2.00	2.08	104	78-120	
2,6-Dinitrotoluene	2.00	2.10	105	77-127	
2-Amino-4,6-dinitrotoluene	2.00	2.03	101	79-120	
2-Nitrotoluene	2.00	1.74	87	70-127	
3-Nitrotoluene	2.00	1.91	96	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.82	91	76-125	
4-Nitrotoluene	2.00	1.88	94	71-127	
HMX	2.00	2.23	112	65-135	M
Nitrobenzene	2.00	2.08	104	65-134	
RDX	2.00	2.12	106	68-130	
Tetryl	2.00	2.04	102	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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06170018.D

Lab ID: LCS 280-498875/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	2.23	96	57-132	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06110024.D

Lab ID: LCSD 280-496861/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.18	109	3	30	73-125	
1,3-Dinitrobenzene	2.00	2.05	103	3	30	78-120	
2,4,6-Trinitrotoluene	2.00	2.11	106	1	30	71-123	
2,4-Dinitrotoluene	2.00	1.93	96	4	30	78-120	
2,6-Dinitrotoluene	2.00	2.03	101	0	30	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.91	95	6	30	79-120	
2-Nitrotoluene	2.00	1.74	87	7	30	70-127	
3-Nitrotoluene	2.00	1.94	97	7	30	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.75	88	4	30	76-125	
4-Nitrotoluene	2.00	1.83	92	15	30	71-127	
HMX	2.00	2.03	102	2	30	65-135	M
Nitrobenzene	2.00	1.97	99	5	30	65-134	
RDX	2.00	2.03	102	4	30	68-130	
Tetryl	2.00	1.96	98	4	30	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06120023.D

Lab ID: LCSD 280-497003/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.27	113	5	30	73-125	
1,3-Dinitrobenzene	2.00	2.06	103	2	30	78-120	
2,4,6-Trinitrotoluene	2.00	2.14	107	2	30	71-123	
2,4-Dinitrotoluene	2.00	1.93	97	3	30	78-120	
2,6-Dinitrotoluene	2.00	2.08	104	4	30	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.86	93	3	30	79-120	
2-Nitrotoluene	2.00	1.75	87	8	30	70-127	
3-Nitrotoluene	2.00	1.89	95	8	30	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.72	86	3	30	76-125	
4-Nitrotoluene	2.00	1.83	91	7	30	71-127	
HMX	2.00	2.05	103	2	30	65-135	M
Nitrobenzene	2.00	1.95	97	6	30	65-134	
RDX	2.00	1.99	99	2	30	68-130	
Tetryl	2.00	1.98	99	3	30	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06120025.D

Lab ID: LCSD 280-497003/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MNX	2.33	2.22	95	2	30	57-132	

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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06110037.D

Lab ID: 280-137006-4 MS Client ID: OS001-DP03-45 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
MNX	2.53	0.43 U	2.14 J	84	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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06170020.D

Lab ID: 280-137006-4 MS RE Client ID: OS001-DP03-45 MS RE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,3-Dinitrobenzene	2.15	0.11 U	2.25	104	78-120	H
2,4,6-Trinitrotoluene	2.15	1.9	4.33	114	71-123	H
2,4-Dinitrotoluene	2.15	0.085 U	2.12	98	78-120	H
2,6-Dinitrotoluene	2.15	0.085 U	2.07	96	77-127	H
2-Amino-4,6-dinitrotoluene	2.15	0.59	2.69	97	79-120	H
2-Nitrotoluene	2.15	0.21 U	1.95	91	70-127	H
3-Nitrotoluene	2.15	0.42 U	0.938	44	73-125	H J1
4-Amino-2,6-dinitrotoluene	2.15	0.13 U	2.12	98	76-125	H
4-Nitrotoluene	2.15	0.42 U	2.22	103	71-127	H
HMX	2.15	0.21 U	2.32	108	65-135	H M
Nitrobenzene	2.15	0.21 U	2.19	102	65-134	H
RDX	2.15	0.16 J	2.11	91	68-130	H M
Tetryl	2.15	0.11 U	9.43	438	64-128	H J1 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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06170023.D

Lab ID: 280-137006-4 MS REDL Client ID: OS001-DP03-45 MS REDL

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.15	37	39.0	89	73-125	H 4 D

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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06110038.D

Lab ID: 280-137006-4 MSD Client ID: OS001-DP03-45 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MNX	2.48	1.89 J	76	13	30	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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06170021.D

Lab ID: 280-137006-4 MSD RE Client ID: OS001-DP03-45 MSD RE

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3-Dinitrobenzene	2.12	2.31	109	3	30	78-120	H
2,4,6-Trinitrotoluene	2.12	4.51	125	4	30	71-123	H J1
2,4-Dinitrotoluene	2.12	2.22	105	5	30	78-120	H
2,6-Dinitrotoluene	2.12	2.18	103	5	30	77-127	H
2-Amino-4,6-dinitrotoluene	2.12	2.84	106	6	30	79-120	H
2-Nitrotoluene	2.12	2.00	94	3	30	70-127	H
3-Nitrotoluene	2.12	2.26	107	83	30	73-125	H J1
4-Amino-2,6-dinitrotoluene	2.12	2.20	104	4	30	76-125	H
4-Nitrotoluene	2.12	2.29	108	3	30	71-127	H
HMX	2.12	2.42	114	5	30	65-135	H M
Nitrobenzene	2.12	2.27	107	4	30	65-134	H
RDX	2.12	2.18	95	3	30	68-130	H M
Tetryl	2.12	9.76	461	3	30	64-128	H J1 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.: 280-137006-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06170024.D

Lab ID: 280-137006-4 MSD REDL Client ID: OS001-DP03-45 MSD REDL

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.12	41.7	222	7	30	73-125	H 4 D

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.: 280-137006-1

SDG No.:

Lab Sample ID: MB 280-496861/1-A

Matrix: Water Date Extracted: 06/01/2020 10:20

Lab File ID:(1) 06120010.D Lab File ID:(2)

Date Analyzed:(1) 06/12/2020 14:35 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_G2_LUNA

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 280-496861/2-A	06/11/2020 21:06	
	LCSD 280-496861/3-A	06/11/2020 21:29	
	LCS 280-496861/4-A	06/11/2020 21:52	
OS001-DP03-25	280-137006-1	06/12/2020 01:42	06/12/2020 23:42
OS001-DP03-45	280-137006-4	06/12/2020 02:05	06/13/2020 00:17
OS001-DP03-45 MS	280-137006-4 MS	06/12/2020 02:28	
OS001-DP03-45 MSD	280-137006-4 MSD	06/12/2020 02:51	
OS001-DP03-25 DL	280-137006-1 DL	06/12/2020 15:44	06/13/2020 02:02
OS001-DP03-45 DL	280-137006-4 DL	06/12/2020 16:07	06/13/2020 02:37

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: MB 280-497003/1-A

Matrix: Water Date Extracted: 06/02/2020 12:47

Lab File ID:(1) 06120021.D Lab File ID:(2)

Date Analyzed:(1) 06/12/2020 18:48 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_G2_LUNA

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 280-497003/2-A	06/12/2020 19:11	
	LCSD 280-497003/3-A	06/12/2020 19:34	
	LCS 280-497003/4-A	06/12/2020 19:57	
	LCSD 280-497003/5-A	06/12/2020 20:20	
OS501-DP03-25	280-137006-2	06/12/2020 20:43	06/17/2020 22:00
OS001-DP03-35	280-137006-3	06/12/2020 21:06	06/17/2020 23:10
OS501-DP03-25 DL	280-137006-2 DL	06/17/2020 19:12	06/17/2020 22:35
OS001-DP03-35 DL	280-137006-3 DL	06/17/2020 19:35	06/17/2020 23:45

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: MB 280-498875/1-A

Matrix: Water Date Extracted: 06/16/2020 10:10

Lab File ID:(1) 016-1601.D Lab File ID:(2) 009-7201.D

Date Analyzed:(1) 06/17/2020 22:16 Date Analyzed:(2) 06/19/2020 09:00

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_G2_LUNA

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 280-498875/2-A	06/17/2020 22:39	
	LCS 280-498875/3-A	06/17/2020 23:02	
OS001-DP03-45 RE	280-137006-4 RE	06/17/2020 23:25	06/19/2020 10:45
OS001-DP03-45 MS RE	280-137006-4 MS RE	06/17/2020 23:48	06/19/2020 11:20
OS001-DP03-45 MSD RE	280-137006-4 MSD RE	06/18/2020 00:11	06/19/2020 11:55
OS001-DP03-45 REDL	280-137006-4 REDL	06/18/2020 00:34	06/19/2020 12:30
OS001-DP03-45 MS REDL	280-137006-4 MS REDL	06/18/2020 00:57	06/19/2020 13:05
OS001-DP03-45 MSD REDL	280-137006-4 MSD REDL	06/18/2020 01:20	06/19/2020 13:40

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-25 Lab Sample ID: 280-137006-1

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/12/2020 01:42 Date Analyzed (2): 06/12/2020 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		7.78	7.63	7.93	0.19		9.3
	2		9.39	9.24	9.54	0.21		
1,3,5-Trinitrobenzene	1		8.94	8.77	9.07	0.41		3.1
	2		19.14	19.00	19.30	0.39		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-25 DL Lab Sample ID: 280-137006-1 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/12/2020 15:44 Date Analyzed (2): 06/13/2020 02:02

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	
2,4,6-Trinitrotoluene	1		11.26	11.21	11.41	32		21.3
	2		24.89	24.76	25.06	26		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS501-DP03-25 Lab Sample ID: 280-137006-2

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/12/2020 20:43 Date Analyzed (2): 06/17/2020 22:00

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		8.95	8.81	9.11	0.35		47.9
	2		19.13	18.99	19.29	0.57		

FORM X 8330A

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS501-DP03-25 DL Lab Sample ID: 280-137006-2 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/17/2020 19:12 Date Analyzed (2): 06/17/2020 22:35

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	
2,4,6-Trinitrotoluene	1		11.23	11.14	11.34	29		0.9
	2		24.89	24.73	25.03	29		
2-Amino-4,6-dinitrotoluene	1		11.69	11.59	11.79	3.7		1.9
	2		18.41	18.25	18.55	3.8		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-35 Lab Sample ID: 280-137006-3

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/12/2020 21:06 Date Analyzed (2): 06/17/2020 23:10

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		7.79	7.65	7.95	0.21		44.5
	2		9.37	9.22	9.52	0.33		
2,4,6-Trinitrotoluene	1		11.29	11.21	11.41	11		11.4
	2		24.88	24.73	25.03	9.6		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-35 DL Lab Sample ID: 280-137006-3 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/17/2020 19:35 Date Analyzed (2): 06/17/2020 23:45

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		8.95	8.78	9.08	31		1.6
	2		19.13	18.99	19.29	31		
2,4,6-Trinitrotoluene	1		11.27	11.14	11.34	11		14.9
	2		24.88	24.73	25.03	12		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 Lab Sample ID: 280-137006-4

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/12/2020 02:05 Date Analyzed (2): 06/13/2020 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	
RDX	1		7.78	7.63	7.93	0.17		37.9
	2		9.39	9.24	9.54	0.24		
1,3,5-Trinitrobenzene	1		8.96	8.77	9.07	40		5.5
	2		19.15	19.00	19.30	38		
2,4,6-Trinitrotoluene	1		11.28	11.12	11.32	2.2		15.5
	2		24.91	24.76	25.06	1.9		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 DL Lab Sample ID: 280-137006-4 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/12/2020 16:07 Date Analyzed (2): 06/13/2020 02:37

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		8.96	8.81	9.11	49		58.8
	2		19.14	19.00	19.30	27		

FORM X 8330A

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 RE Lab Sample ID: 280-137006-4 RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/17/2020 23:25 Date Analyzed (2): 06/19/2020 10:45

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		7.79	7.64	7.94	0.16		66.6
	2		9.37	9.22	9.52	0.32		
2,4,6-Trinitrotoluene	1		11.27	11.14	11.34	1.9		2.7
	2		24.87	24.73	25.03	1.8		
2-Amino-4,6-dinitrotoluene	1		11.74	11.59	11.79	0.59		10.0
	2		18.37	18.24	18.54	0.66		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 REDL Lab Sample ID: 280-137006-4 REDL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/18/2020 00:34 Date Analyzed (2): 06/19/2020 12:30

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		8.94	8.78	9.08	37		5.4
	2		19.11	18.97	19.27	35		
2,4,6-Trinitrotoluene	1		11.26	11.14	11.34	2.1		113.8
	2		24.89	24.73	25.03	0.57		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 MS RE Lab Sample ID: 280-137006-4 MS RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/17/2020 23:48 Date Analyzed (2): 06/19/2020 11:20

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	
HMX	1		6.72	6.58	6.88	2.32		16.7
	2		7.14	7.01	7.31	1.96		
RDX	1		7.80	7.64	7.94	2.11		5.9
	2		9.35	9.22	9.52	2.24		
1,3-Dinitrobenzene	1		9.60	9.43	9.73	2.25		9.2
	2		15.77	15.64	15.94	2.05		
Nitrobenzene	1		9.98	9.80	10.10	2.19		16.1
	2		12.24	12.11	12.41	1.86		
Tetryl	1		10.22	10.11	10.41	9.43		131.4
	2		23.83	23.71	24.01	1.95		
2,4,6-Trinitrotoluene	1		11.26	11.14	11.34	4.33		8.7
	2		24.84	24.73	25.03	3.97		
4-Amino-2,6-dinitrotoluene	1		11.44	11.30	11.50	2.12		7.5
	2		17.42	17.30	17.60	1.96		
2-Amino-4,6-dinitrotoluene	1		11.72	11.59	11.79	2.69		7.0
	2		18.35	18.24	18.54	2.50		
2,6-Dinitrotoluene	1		11.86	11.74	11.94	2.07		2.1
	2		20.02	19.90	20.20	2.12		
2,4-Dinitrotoluene	1		12.06	11.94	12.14	2.12		3.5
	2		20.53	20.41	20.71	2.04		
2-Nitrotoluene	1		12.88	12.72	13.02	1.95		12.0
	2		16.69	16.57	16.87	1.73		
4-Nitrotoluene	1		13.31	13.14	13.44	2.22		19.2
	2		16.98	16.86	17.16	1.83		
3-Nitrotoluene	1		13.89	13.74	14.04	0.938		74.7
	2		17.91	17.78	18.08	2.06		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 MS REDL Lab Sample ID: 280-137006-4 MS REDL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/18/2020 00:57 Date Analyzed (2): 06/19/2020 13:05

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		7.80	7.64	7.94	2.69		14.3
	2		9.35	9.22	9.52	3.10		
1,3,5-Trinitrobenzene	1		8.94	8.78	9.08	39.0		2.2
	2		19.10	18.97	19.27	38.1		
1,3-Dinitrobenzene	1		9.59	9.43	9.73	2.26		9.6
	2		15.80	15.64	15.94	2.05		
Nitrobenzene	1		9.97	9.80	10.10	2.25		7.4
	2		12.23	12.11	12.41	2.09		
Tetryl	1		10.22	10.11	10.41	9.51		128.7
	2		23.87	23.71	24.01	2.06		
2,4,6-Trinitrotoluene	1		11.25	11.14	11.34	4.45		28.8
	2		24.89	24.73	25.03	5.95		
4-Amino-2,6-dinitrotoluene	1		11.42	11.30	11.50	2.89		0.7
	2		17.44	17.30	17.60	2.91		
2-Amino-4,6-dinitrotoluene	1		11.72	11.59	11.79	2.74		18.9
	2		18.37	18.24	18.54	3.32		
2,6-Dinitrotoluene	1		11.85	11.74	11.94	2.03		44.6
	2		20.03	19.90	20.20	3.19		
2,4-Dinitrotoluene	1		12.06	11.94	12.14	2.05		41.1
	2		20.53	20.41	20.71	3.11		
2-Nitrotoluene	1		12.89	12.72	13.02	2.50		33.9
	2		16.67	16.57	16.87	1.78		
4-Nitrotoluene	1		13.31	13.14	13.44	2.11		7.2
	2		17.02	16.86	17.16	1.96		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 MSD RE Lab Sample ID: 280-137006-4 MSD RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/18/2020 00:11 Date Analyzed (2): 06/19/2020 11:55

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	
HMX	1		6.72	6.58	6.88	2.42		21.8
	2		7.13	7.01	7.31	1.95		
RDX	1		7.80	7.64	7.94	2.18		3.6
	2		9.35	9.22	9.52	2.26		
1,3-Dinitrobenzene	1		9.60	9.43	9.73	2.31		3.2
	2		15.77	15.64	15.94	2.24		
Nitrobenzene	1		9.98	9.80	10.10	2.27		17.9
	2		12.24	12.11	12.41	1.90		
Tetryl	1		10.23	10.11	10.41	9.76		130.7
	2		23.85	23.71	24.01	2.05		
2,4,6-Trinitrotoluene	1		11.26	11.14	11.34	4.51		9.7
	2		24.87	24.73	25.03	4.09		
4-Amino-2,6-dinitrotoluene	1		11.43	11.30	11.50	2.20		3.4
	2		17.43	17.30	17.60	2.12		
2-Amino-4,6-dinitrotoluene	1		11.72	11.59	11.79	2.84		4.8
	2		18.37	18.24	18.54	2.71		
2,6-Dinitrotoluene	1		11.86	11.74	11.94	2.18		4.0
	2		20.03	19.90	20.20	2.26		
2,4-Dinitrotoluene	1		12.06	11.94	12.14	2.22		6.4
	2		20.55	20.41	20.71	2.08		
2-Nitrotoluene	1		12.88	12.72	13.02	2.00		12.3
	2		16.69	16.57	16.87	1.77		
4-Nitrotoluene	1		13.32	13.14	13.44	2.29		17.5
	2		16.98	16.86	17.16	1.92		
3-Nitrotoluene	1		13.92	13.74	14.04	2.26		6.6
	2		17.92	17.78	18.08	2.12		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 MSD REDL Lab Sample ID: 280-137006-4 MSD REDL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/18/2020 01:20 Date Analyzed (2): 06/19/2020 13:40

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		7.80	7.64	7.94	2.74		5.0
	2		9.36	9.22	9.52	2.88		
1,3,5-Trinitrobenzene	1		8.94	8.78	9.08	41.7		4.0
	2		19.10	18.97	19.27	40.1		
1,3-Dinitrobenzene	1		9.60	9.43	9.73	2.45		9.7
	2		15.76	15.64	15.94	2.70		
Nitrobenzene	1		9.98	9.80	10.10	2.47		5.6
	2		12.24	12.11	12.41	2.33		
Tetryl	1		10.24	10.11	10.41	10.3		127.4
	2		23.84	23.71	24.01	2.28		
2,4,6-Trinitrotoluene	1		11.26	11.14	11.34	4.77		15.0
	2		24.87	24.73	25.03	4.10		
4-Amino-2,6-dinitrotoluene	1		11.44	11.30	11.50	3.04		18.7
	2		17.44	17.30	17.60	2.52		
2-Amino-4,6-dinitrotoluene	1		11.73	11.59	11.79	2.92		7.0
	2		18.36	18.24	18.54	3.13		
2,6-Dinitrotoluene	1		11.86	11.74	11.94	2.45		69.6
	2		20.03	19.90	20.20	1.18		
2,4-Dinitrotoluene	1		12.07	11.94	12.14	2.28		10.9
	2		20.53	20.41	20.71	2.54		
2-Nitrotoluene	1		12.90	12.72	13.02	2.50		19.1
	2		16.73	16.57	16.87	2.06		
4-Nitrotoluene	1		13.34	13.14	13.44	2.15		23.2
	2		16.97	16.86	17.16	2.72		
3-Nitrotoluene	1		13.93	13.74	14.04	2.20		21.7
	2		17.90	17.78	18.08	2.74		

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-25
Lab Sample ID: 280-137006-1
Matrix: Water
Lab File ID: 06110035.D
Analysis Method: 8330A
Date Collected: 05/26/2020 14:10
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 467.3(mL)
Date Analyzed: 06/12/2020 01:42
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.: 498360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.41	M	0.22	0.21	0.090
99-65-0	1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039
121-14-2	2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029
606-20-2	2,6-Dinitrotoluene	0.086	U M	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U M	0.22	0.21	0.091
99-08-1	3-Nitrotoluene	0.43	U	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	0.43	U	0.44	0.43	0.11
2691-41-0	HMX	0.21	U	0.22	0.21	0.094
98-95-3	Nitrobenzene	0.21	U	0.22	0.21	0.097
121-82-4	RDX	0.19	J M	0.22	0.21	0.055
479-45-8	Tetryl	0.11	U M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	97	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110035.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 01:42:33	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092324-035				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				
First Level Reviewer: zhangji		Date:	12-Jun-2020 11:12:56		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.696			ND	
6 MNX	1	7.451	7.407	0.044	42874	0.2704	M
7 RDX	1	7.784	7.776	0.008	2069	0.0177	M
$ 9 1,2-Dinitrobenzene	1	8.771	8.743	0.028	26767	0.1937	M
10 1,3,5-Trinitrobenzene	1	8.944	8.916	0.028	8751	0.0380	M
11 1,3-Dinitrobenzene	1		9.569			ND	U
12 Nitrobenzene	1		9.949			ND	
14 Tetryl	1		10.256			ND	U
16 2,4,6-Trinitrotoluene	1	11.277	11.222	0.055	572241	2.80	E
17 4-Amino-2,6-dinitrotoluene	1		11.376			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.662			ND	
19 2,6-Dinitrotoluene	1		11.809			ND	U
20 2,4-Dinitrotoluene	1		12.009			ND	
21 o-Nitrotoluene	1		12.842			ND	U
22 p-Nitrotoluene	1		13.276			ND	
23 m-Nitrotoluene	1		13.862			ND	

QC Flag Legend

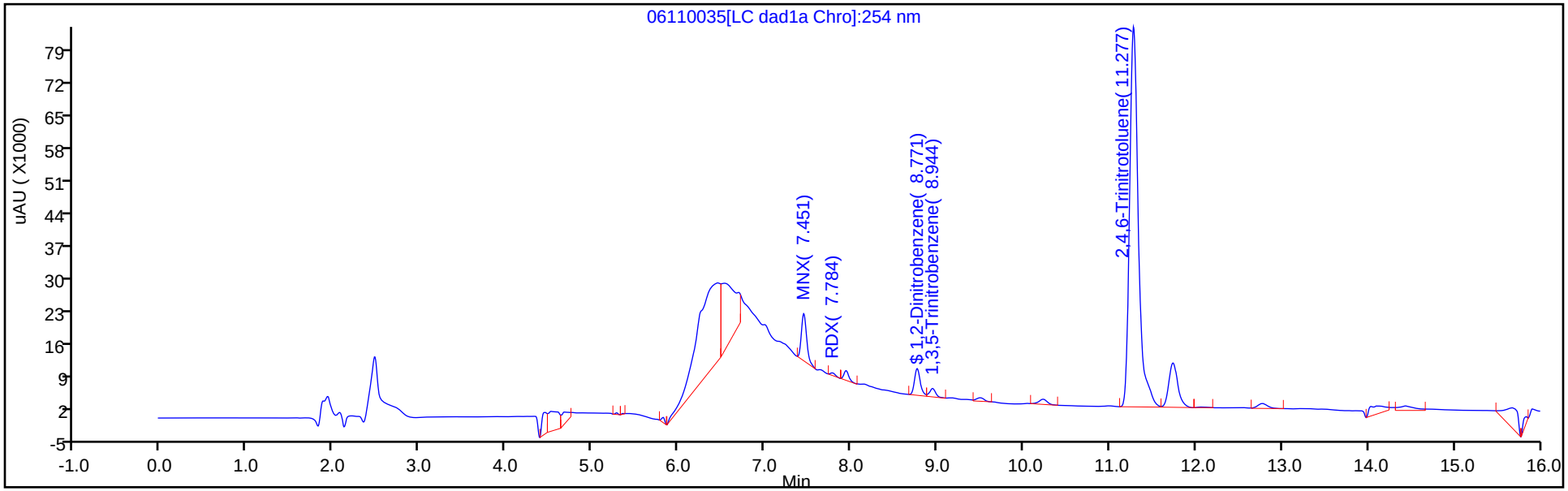
Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 12-Jun-2020 12:39:48 Chrom Revision: 2.3 10-Jun-2020 22:46:48

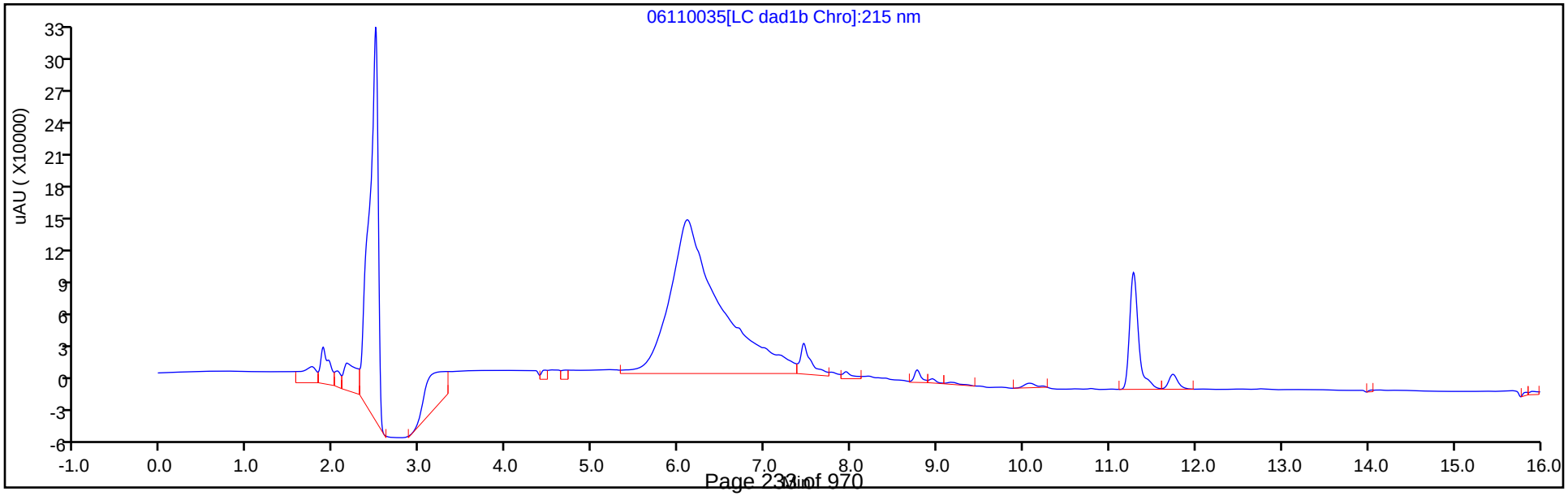
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1	Worklist Smp#:	35
Client ID:	OS001-DP03-25				
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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110035.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 01:42:33	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092324-035				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				

First Level Reviewer: zhangji Date: 12-Jun-2020 11:12:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1937	96.83

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

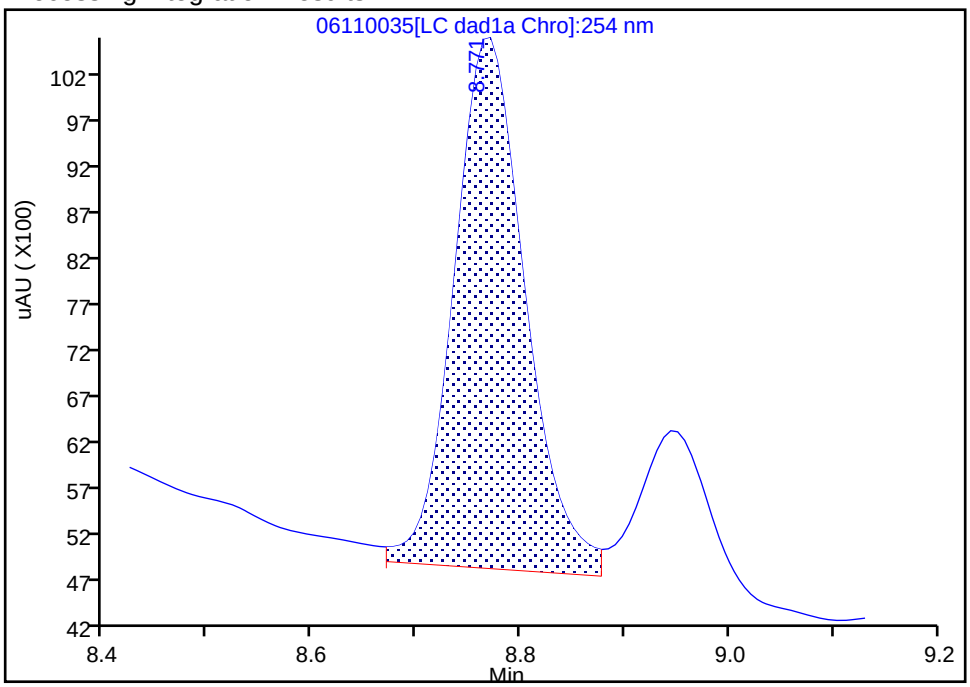
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

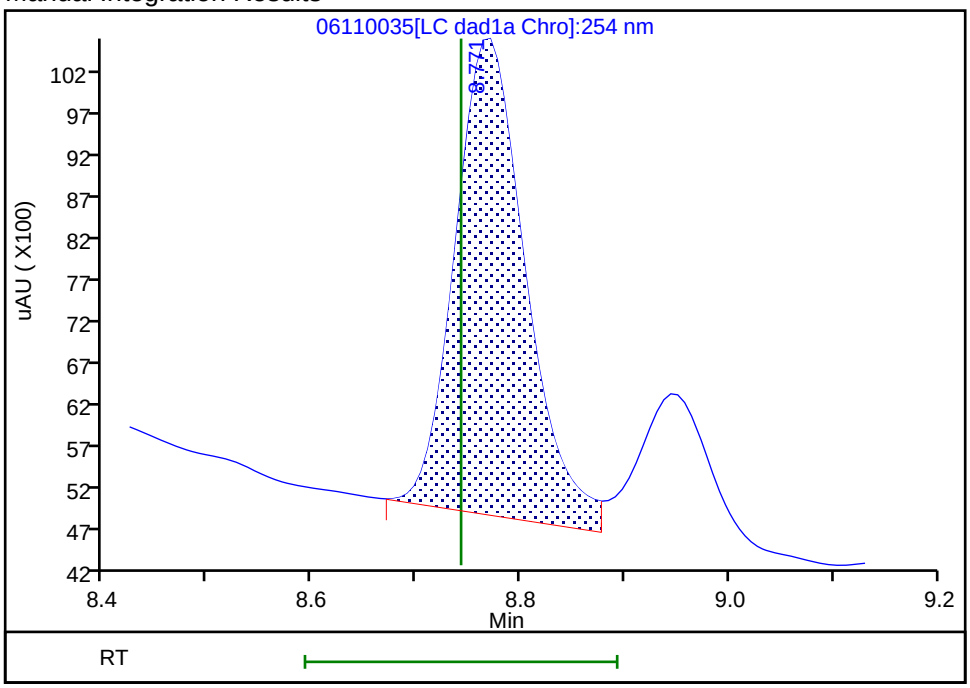
Processing Integration Results

RT: 8.77
Area: 27189
Amount: 0.196719
Amount Units: ug/mL



Manual Integration Results

RT: 8.77
Area: 26767
Amount: 0.193666
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:11:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

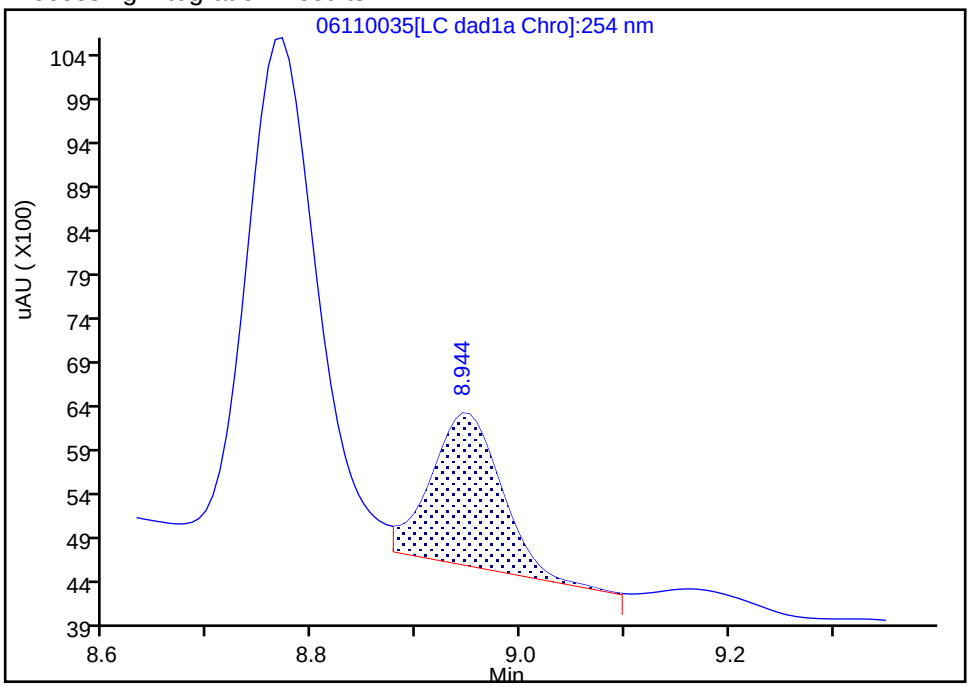
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

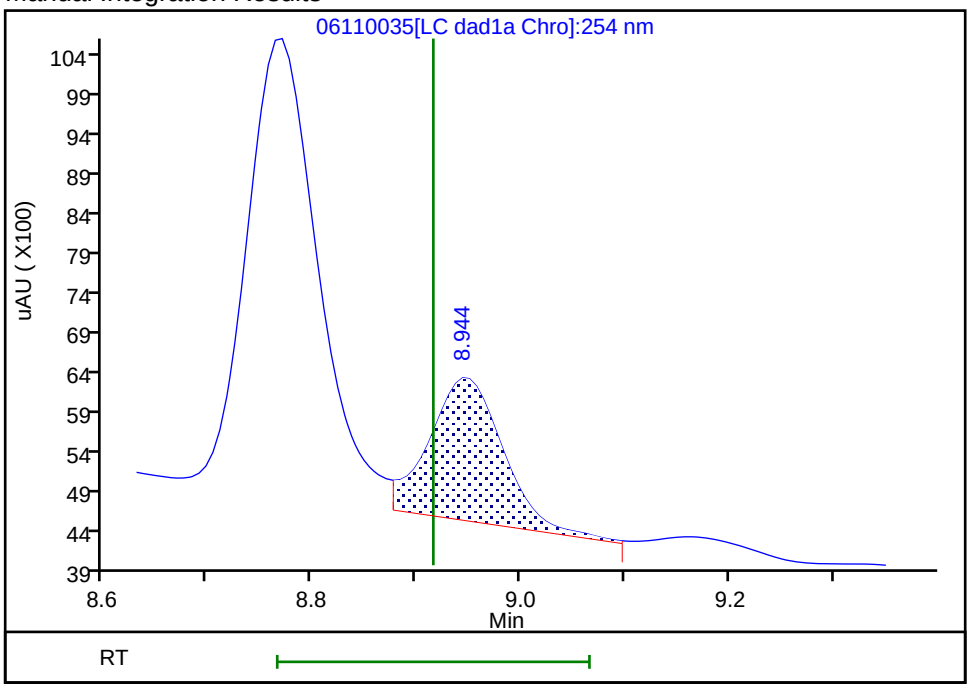
Processing Integration Results

RT: 8.94
Area: 8085
Amount: 0.035105
Amount Units: ug/mL



Manual Integration Results

RT: 8.94
Area: 8751
Amount: 0.037997
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:11:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

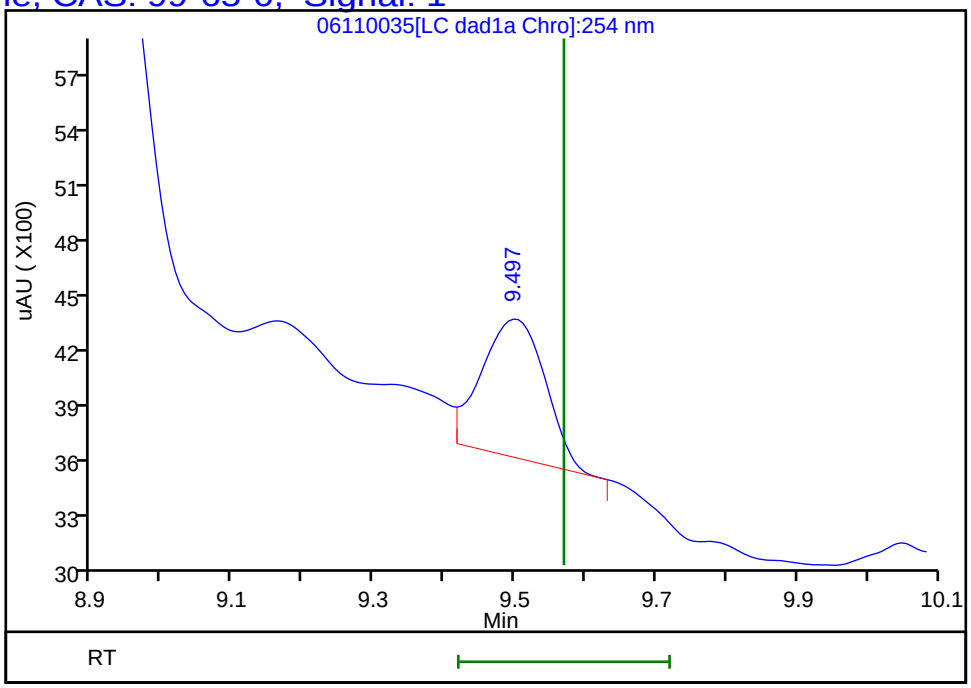
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	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		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.50
Response: 4597
Amount: 0.014989



Reviewer: zhangji, 12-Jun-2020 11:12:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

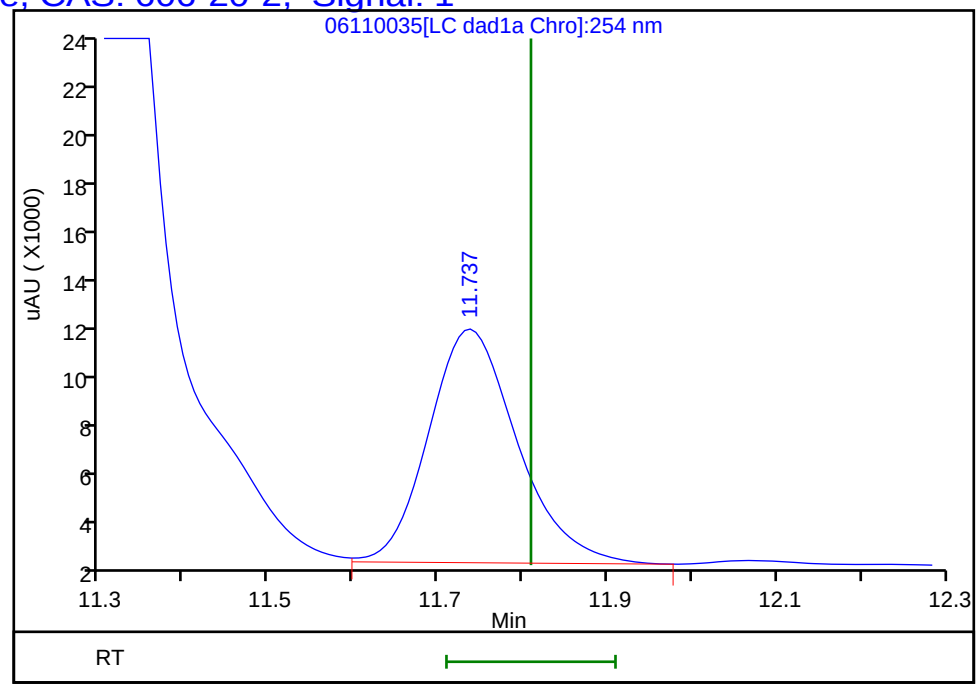
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	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		

19 2,6-Dinitrotoluene, CAS: 606-20-2, Signal: 1

RT: 11.74
Response: 68760
Amount: 0.460080



Reviewer: zhangji, 12-Jun-2020 11:12:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

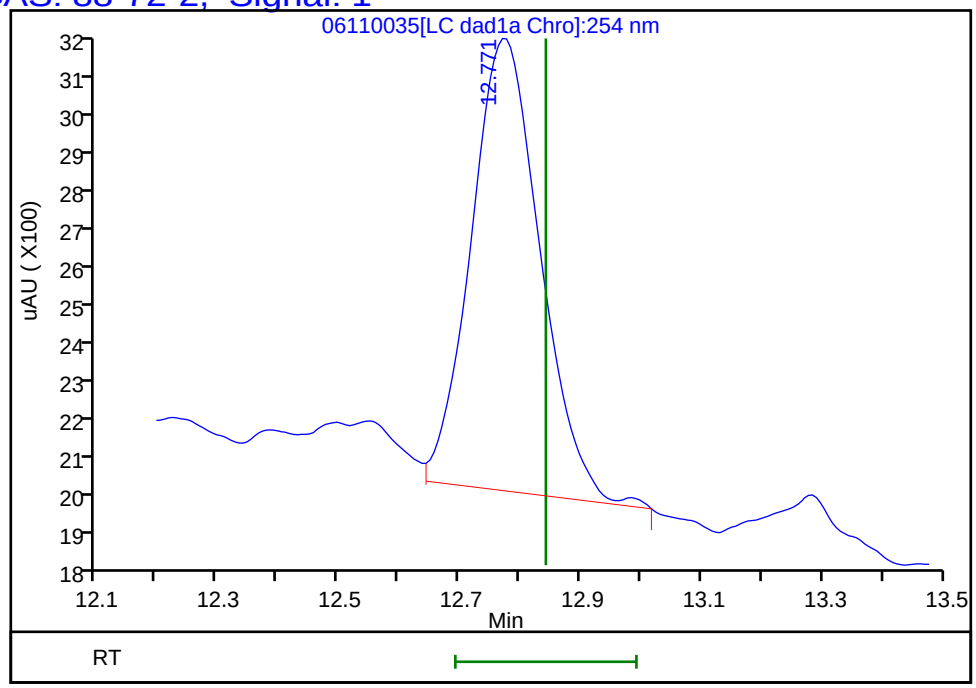
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	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		

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.77
Response: 8322
Amount: 0.061621



Reviewer: zhangji, 12-Jun-2020 11:12:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

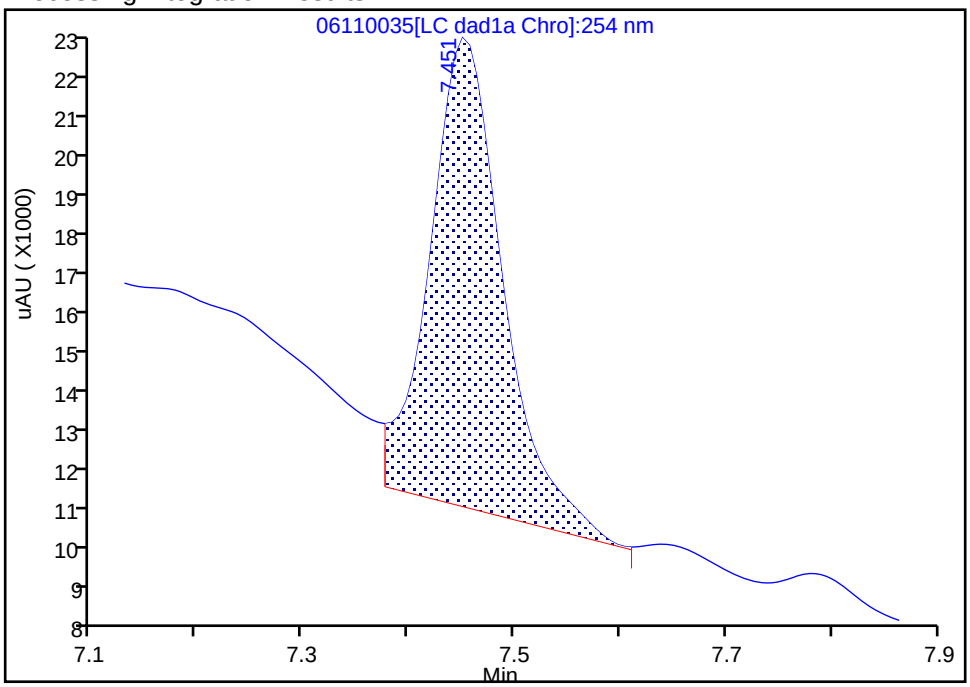
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

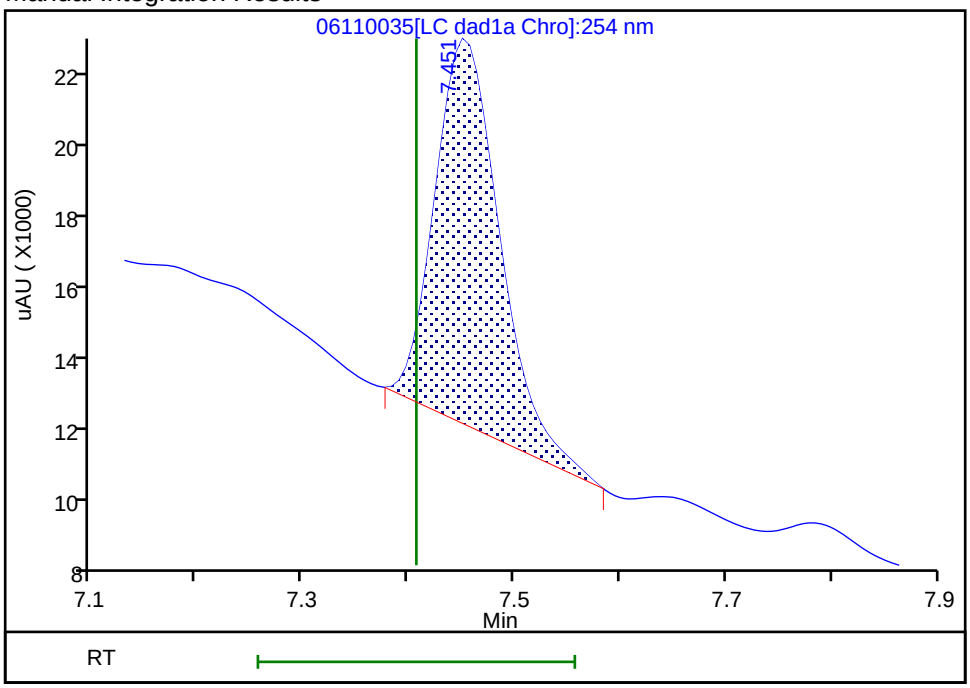
Processing Integration Results

RT: 7.45
Area: 53193
Amount: 0.335509
Amount Units: ug/mL



Manual Integration Results

RT: 7.45
Area: 42874
Amount: 0.270423
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:11:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

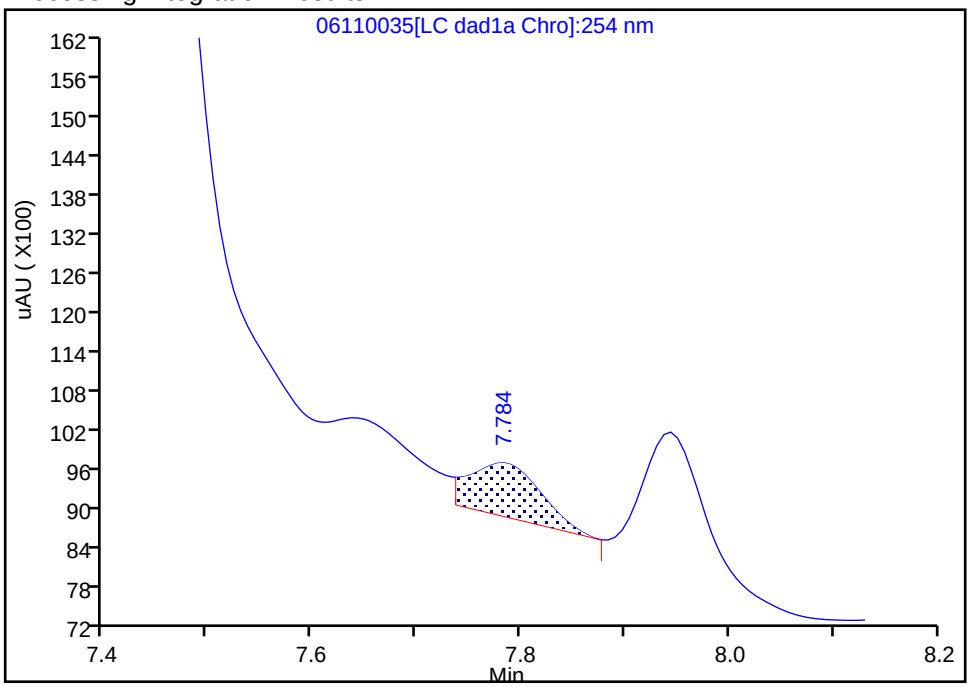
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

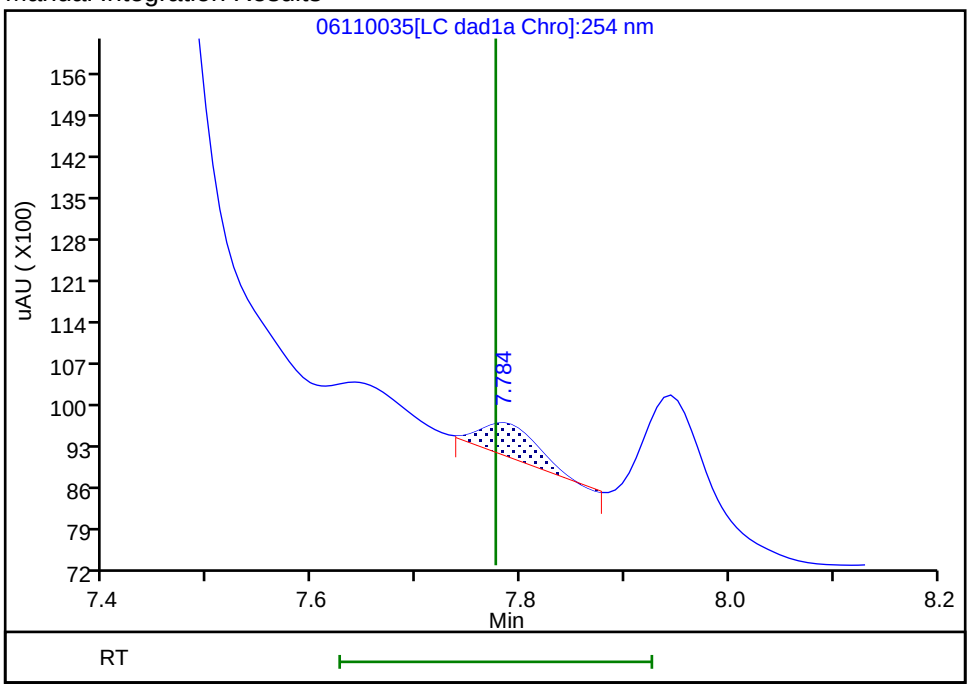
Processing Integration Results

RT: 7.78
Area: 3824
Amount: 0.032792
Amount Units: ug/mL



Manual Integration Results

RT: 7.78
Area: 2069
Amount: 0.017742
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:12:05
Audit Action: Assigned New Baseline Audit Reason: Baseline

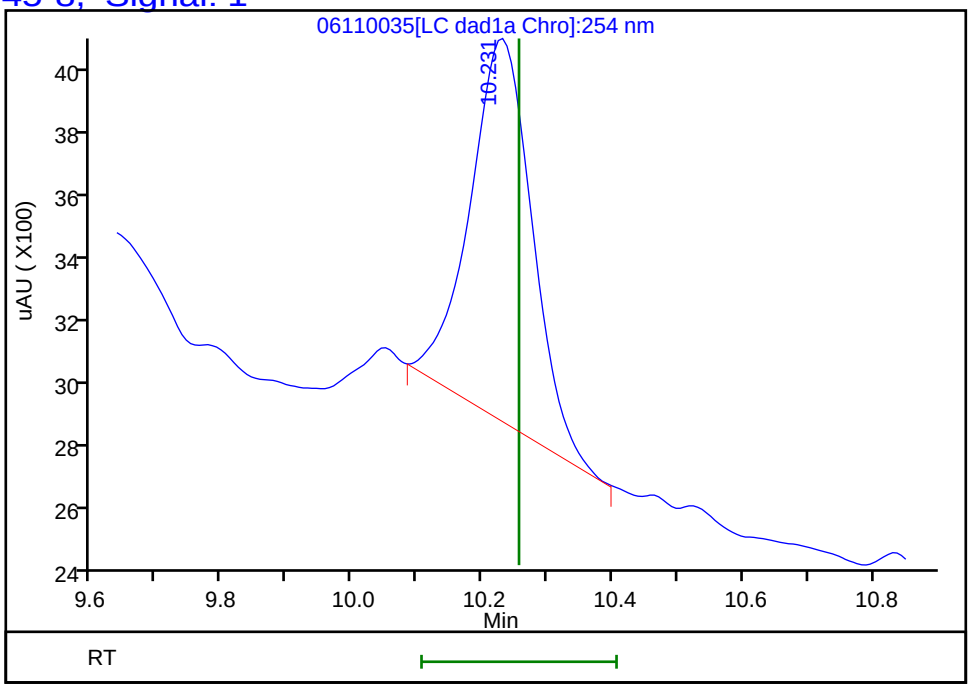
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110035.d				
Injection Date:	12-Jun-2020 01:42:33	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	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		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.23
Response: 7384
Amount: 0.041710



Reviewer: zhangji, 12-Jun-2020 11:12:56
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-25
Lab Sample ID: 280-137006-1
Matrix: Water
Lab File ID: 06120018.D
Analysis Method: 8330A
Date Collected: 05/26/2020 14:10
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 467.3(mL)
Date Analyzed: 06/12/2020 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.: 498568
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	0.43	U	2.1	0.43	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	90		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120018.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 23:42:59	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092371-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:53:22	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 17:49:46

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	7.148	7.161	-0.013	7364	0.0115	M
7 MNX	1		7.876			ND	
8 RDX	1	9.388	9.387	0.001	4758	0.0195	
9 Nitrobenzene	1		12.281			ND	
$ 10 1,2-Dinitrobenzene	1	13.274	13.294	-0.020	51832	0.1803	
12 1,3-Dinitrobenzene	1		15.827			ND	
14 o-Nitrotoluene	1		16.747			ND	U
15 p-Nitrotoluene	1	17.068	17.041	0.027	5298	0.0220	M
16 4-Amino-2,6-dinitrotoluene	1	17.474	17.487	-0.013	55358	0.1603	M
17 m-Nitrotoluene	1		17.967			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.408	18.427	-0.019	151471	0.3256	M
19 1,3,5-Trinitrobenzene	1	19.141	19.154	-0.013	17396	0.0368	M
20 2,6-Dinitrotoluene	1		20.081			ND	
21 2,4-Dinitrotoluene	1		20.601			ND	
22 Tetryl	1		23.908			ND	
23 2,4,6-Trinitrotoluene	1	24.901	24.914	-0.013	1024278	2.54	E

QC Flag Legend

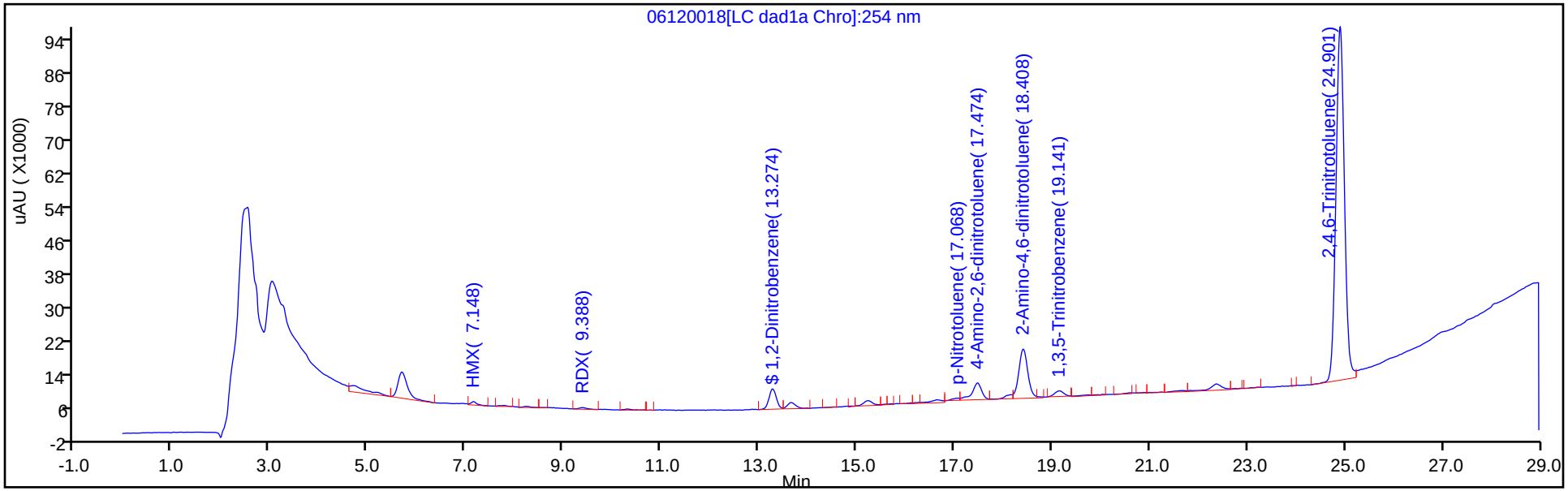
Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 16-Jun-2020 18:53:26 Chrom Revision: 2.3 10-Jun-2020 22:46:48

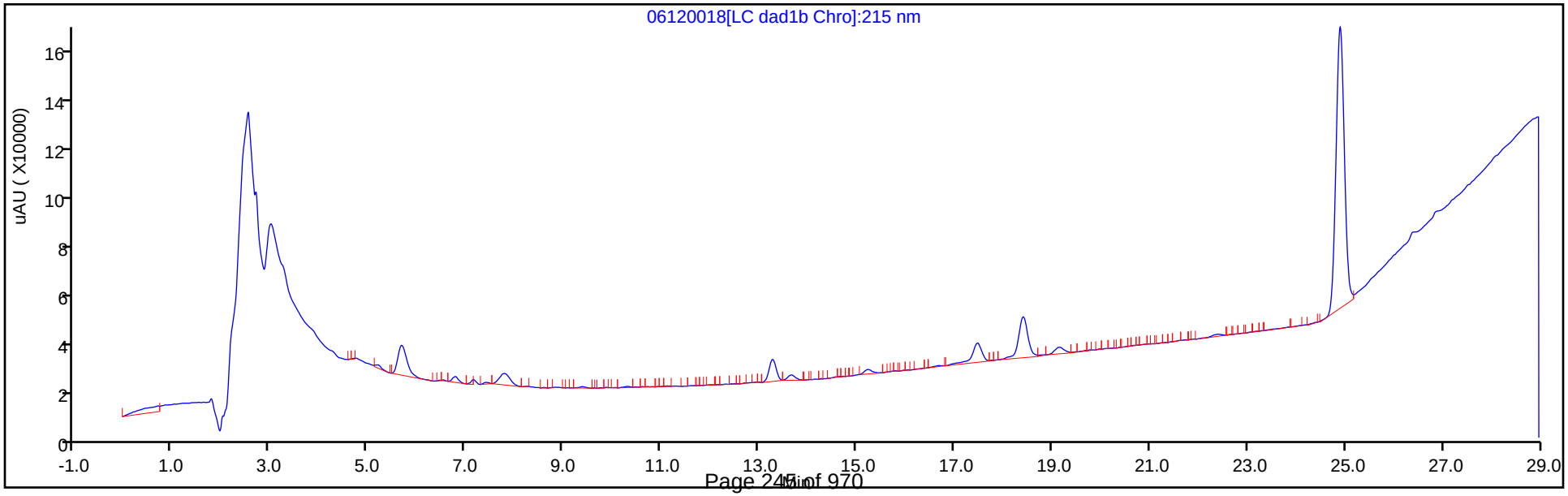
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120018.d				
Injection Date:	12-Jun-2020 23:42:59	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1	Worklist Smp#:	18
Client ID:	OS001-DP03-25				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120018.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 23:42:59	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092371-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:53:22	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 17:49:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1803	90.17

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

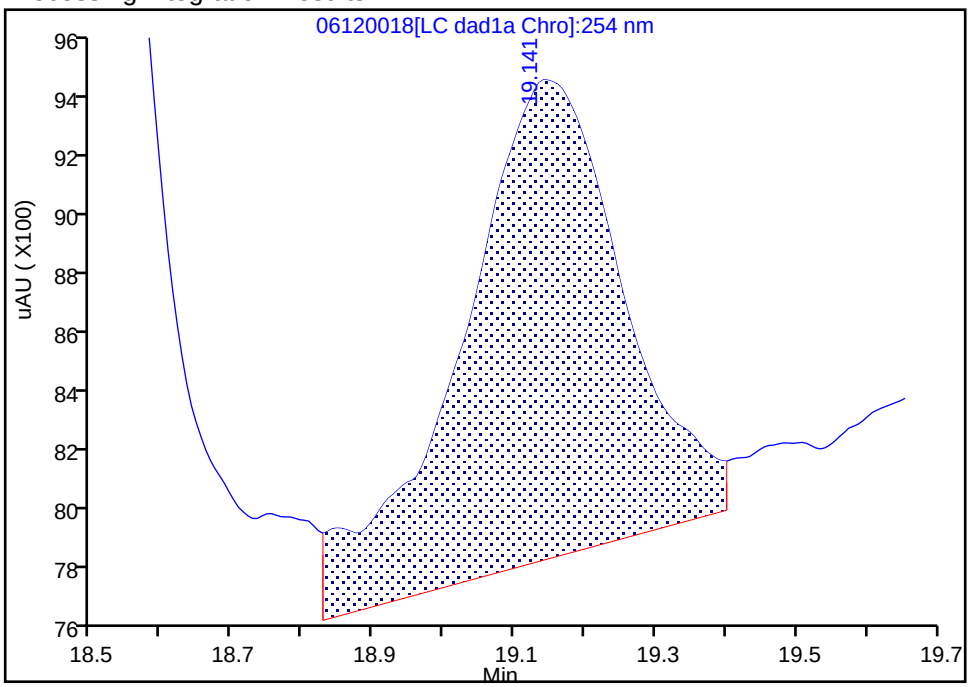
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120018.d				
Injection Date:	12-Jun-2020 23:42:59	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

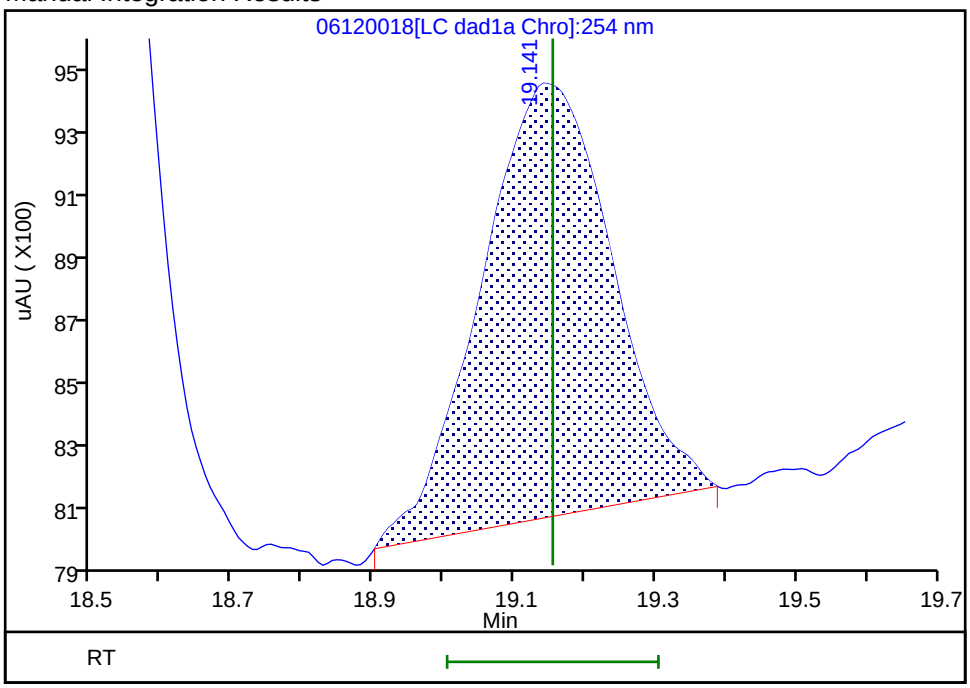
Processing Integration Results

RT: 19.14
Area: 25564
Amount: 0.054109
Amount Units: ug/ml



Manual Integration Results

RT: 19.14
Area: 17396
Amount: 0.036821
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:49:08

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

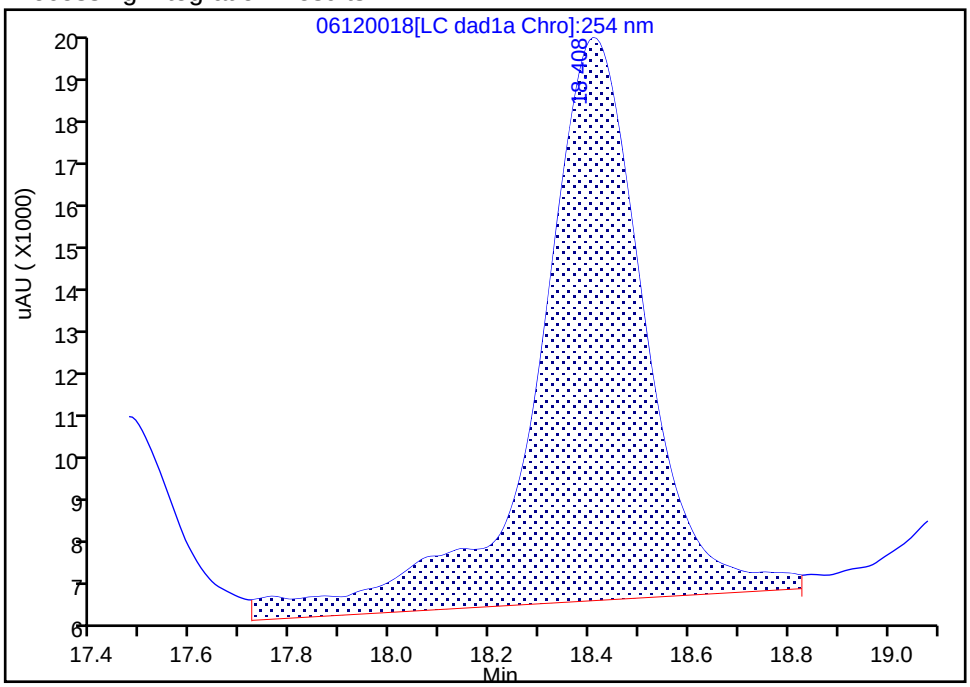
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120018.d				
Injection Date:	12-Jun-2020 23:42:59	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

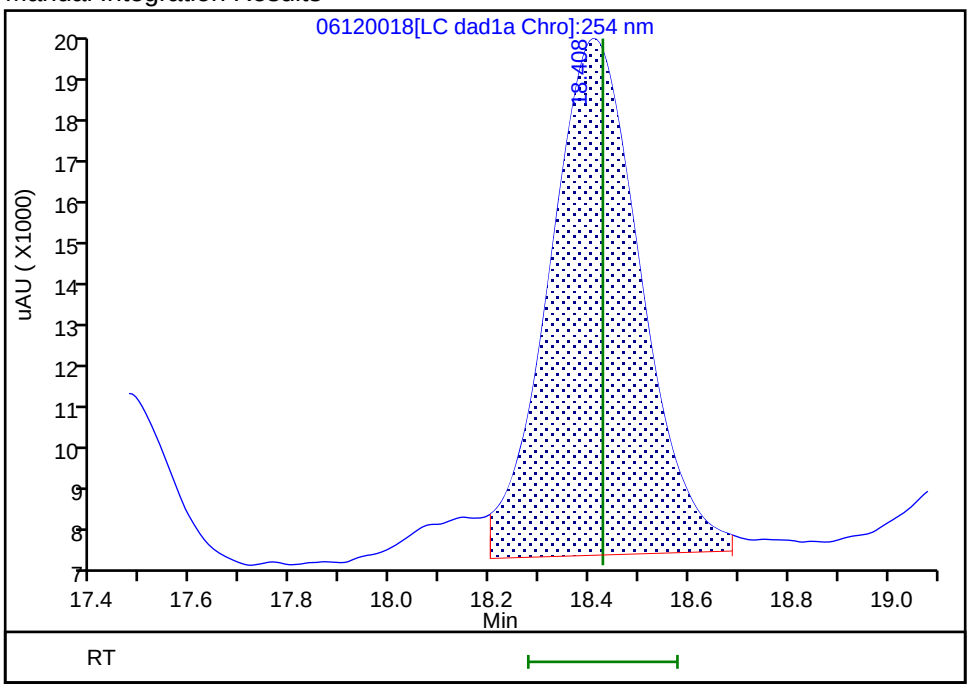
Processing Integration Results

RT: 18.41
Area: 182506
Amount: 0.392308
Amount Units: ug/ml



Manual Integration Results

RT: 18.41
Area: 151471
Amount: 0.325596
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:49:22
Audit Action: Assigned New Baseline Audit Reason: Baseline

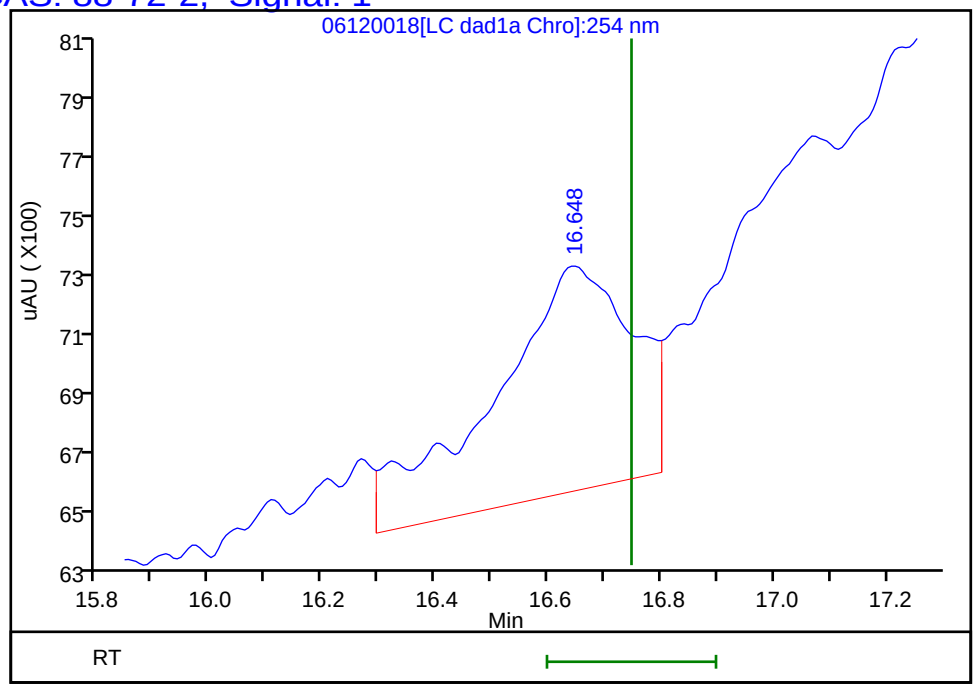
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120018.d				
Injection Date:	12-Jun-2020 23:42:59	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.65
Response: 12353
Amount: 0.045255



Reviewer: zhangji, 16-Jun-2020 17:49:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

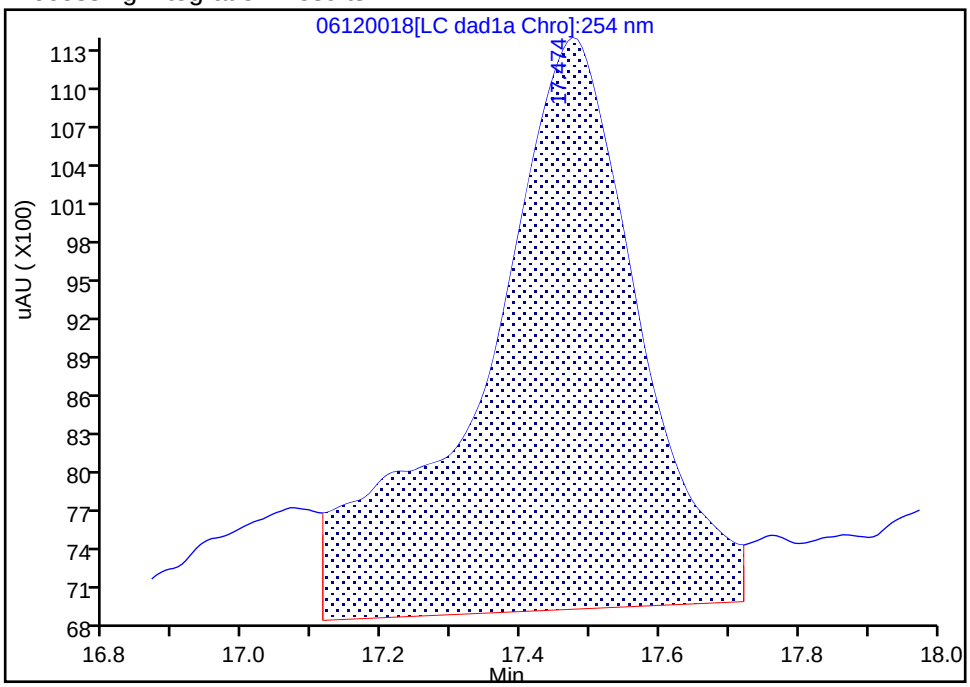
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120018.d				
Injection Date:	12-Jun-2020 23:42:59	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

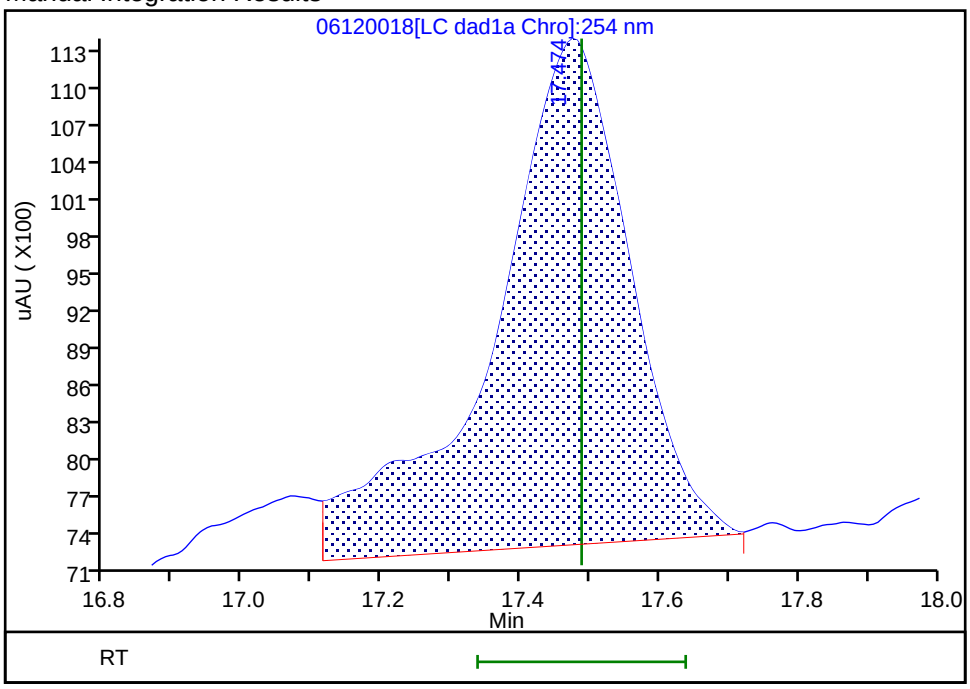
Processing Integration Results

RT: 17.47
Area: 69554
Amount: 0.201469
Amount Units: ug/ml



Manual Integration Results

RT: 17.47
Area: 55358
Amount: 0.160349
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:49:22

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

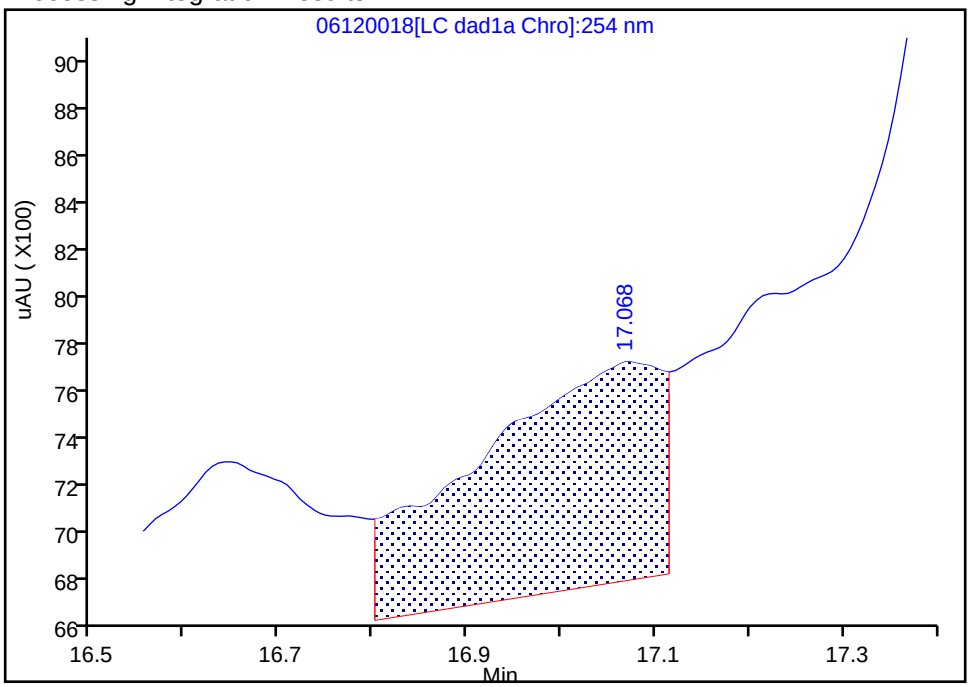
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120018.d				
Injection Date:	12-Jun-2020 23:42:59	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

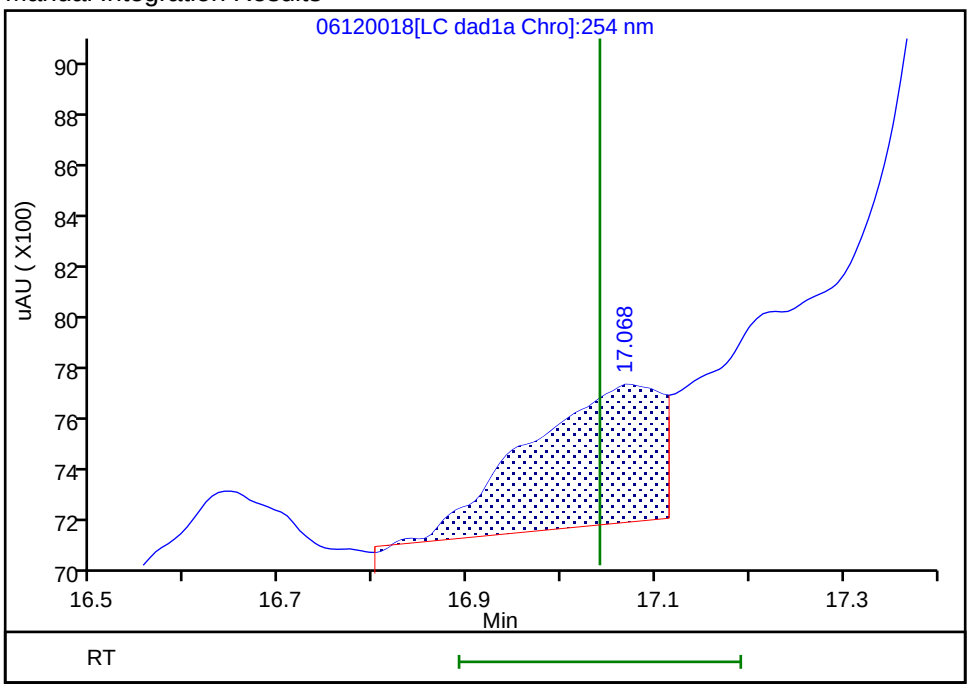
Processing Integration Results

RT: 17.07
Area: 12762
Amount: 0.052980
Amount Units: ug/ml



Manual Integration Results

RT: 17.07
Area: 5298
Amount: 0.021994
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:49:22
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

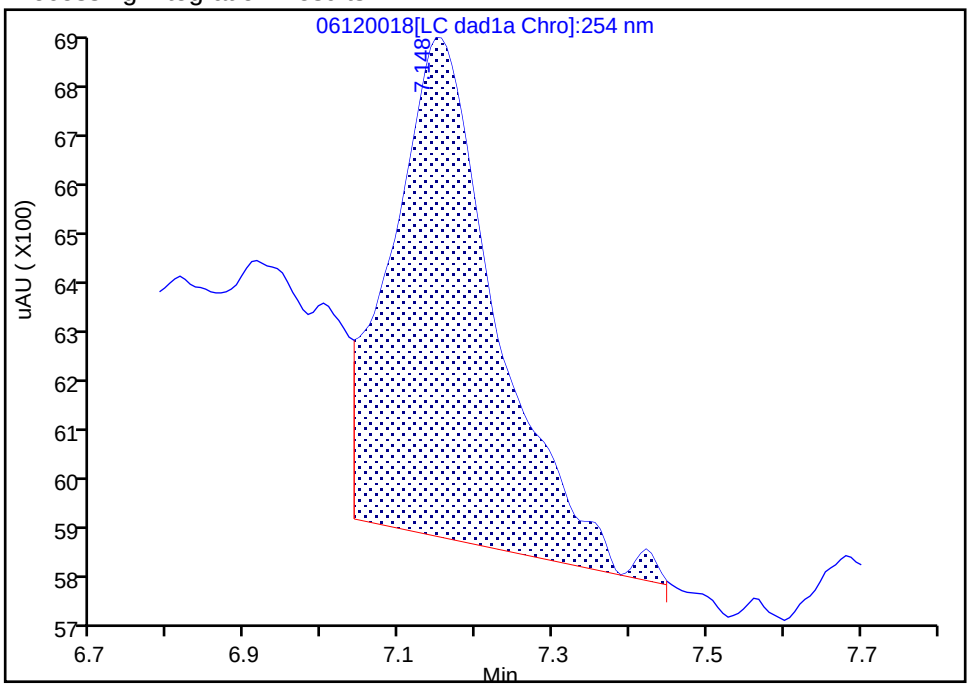
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120018.d				
Injection Date:	12-Jun-2020 23:42:59	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

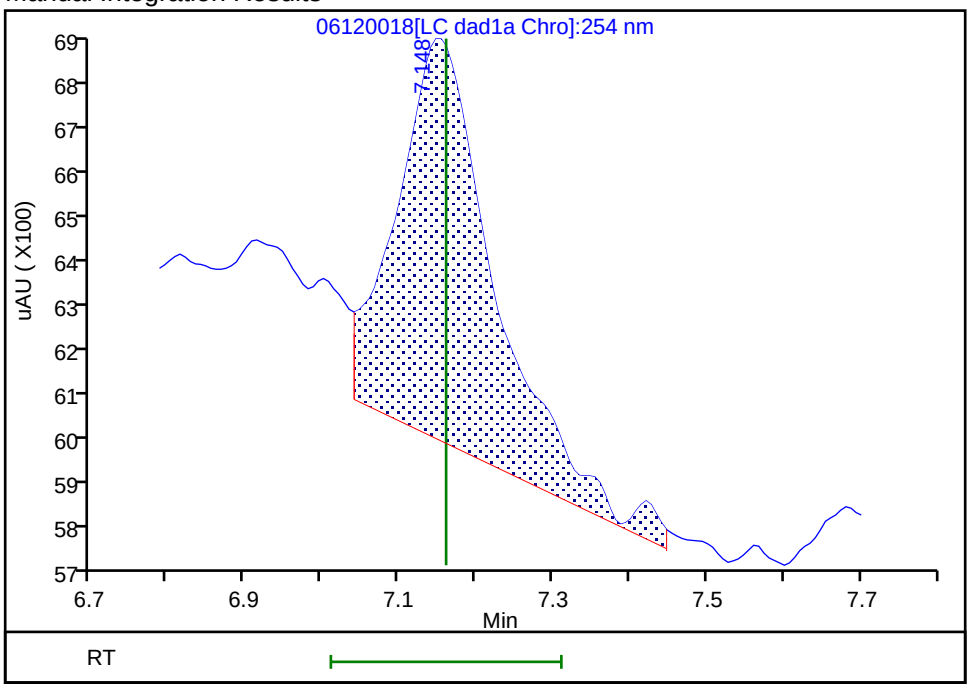
Processing Integration Results

RT: 7.15
Area: 8828
Amount: 0.019795
Amount Units: ug/ml



Manual Integration Results

RT: 7.15
Area: 7364
Amount: 0.011525
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:49:43
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-25 DL
Lab Sample ID: 280-137006-1 DL
Matrix: Water
Lab File ID: 06120013.D
Analysis Method: 8330A
Date Collected: 05/26/2020 14:10
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 467.3(mL)
Date Analyzed: 06/12/2020 15:44
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 498536
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
118-96-7	2,4,6-Trinitrotoluene	32	D	1.2	1.1	0.48

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	113	M D	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120013.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 15:44:28	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092367-013				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 18:11:22	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 12-Jun-2020 16:13:26

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.704			ND	U
6 MNX	1		7.394			ND	U
7 RDX	1		7.797			ND	U
$ 9 1,2-Dinitrobenzene	1	8.756	8.777	-0.021	3110	0.0225	M
10 1,3,5-Trinitrobenzene	1	8.930	8.957	-0.027	1175	0.005102	M
11 1,3-Dinitrobenzene	1		9.617			ND	
12 Nitrobenzene	1		10.004			ND	
14 Tetryl	1		10.330			ND	
16 2,4,6-Trinitrotoluene	1	11.263	11.310	-0.047	61366	0.3008	
17 4-Amino-2,6-dinitrotoluene	1		11.484			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.784			ND	U
19 2,6-Dinitrotoluene	1		11.924			ND	
20 2,4-Dinitrotoluene	1		12.124			ND	
21 o-Nitrotoluene	1		12.977			ND	
22 p-Nitrotoluene	1		13.424			ND	
23 m-Nitrotoluene	1		14.030			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

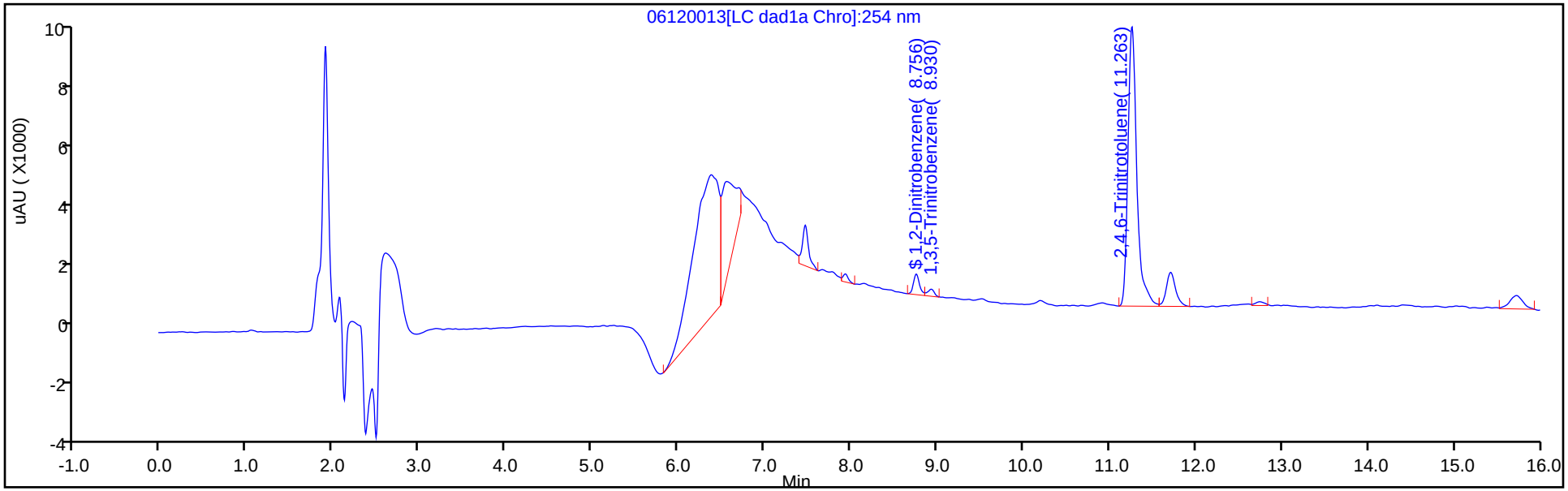
U - Marked Undetected

Report Date: 16-Jun-2020 18:11:24 Chrom Revision: 2.3 10-Jun-2020 22:46:48

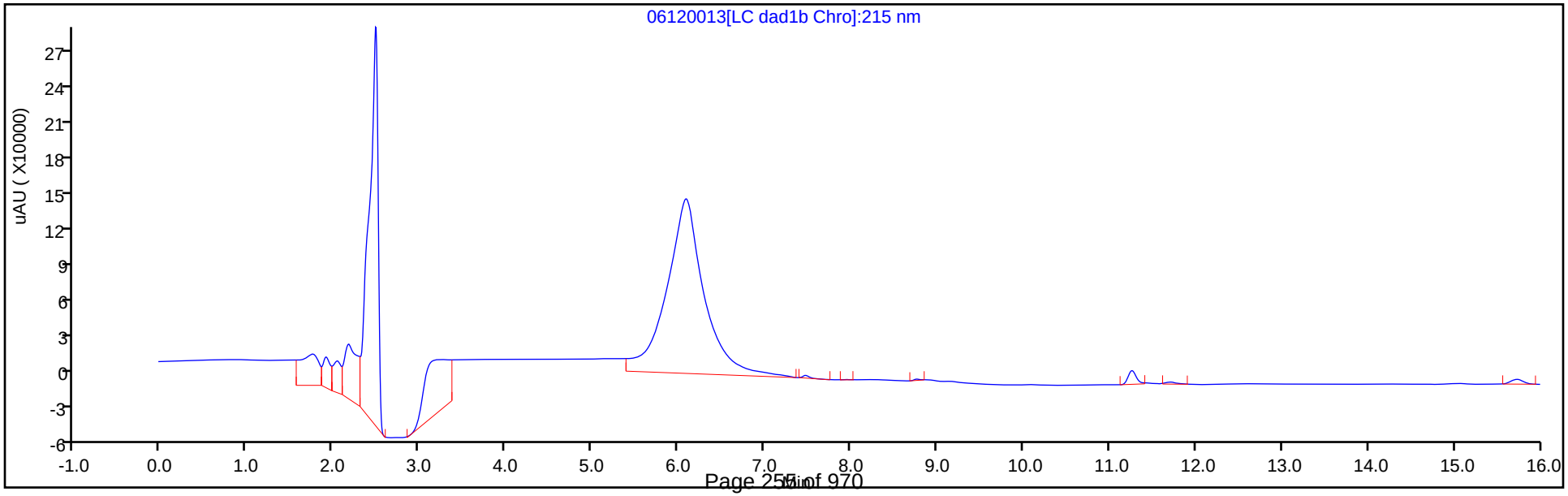
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120013.d				
Injection Date:	12-Jun-2020 15:44:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1	Worklist Smp#:	13
Client ID:	OS001-DP03-25				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	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\20200612-92367.b\06120013.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 15:44:28	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092367-013				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 18:11:22	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 12-Jun-2020 16:13:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0225	11.25

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

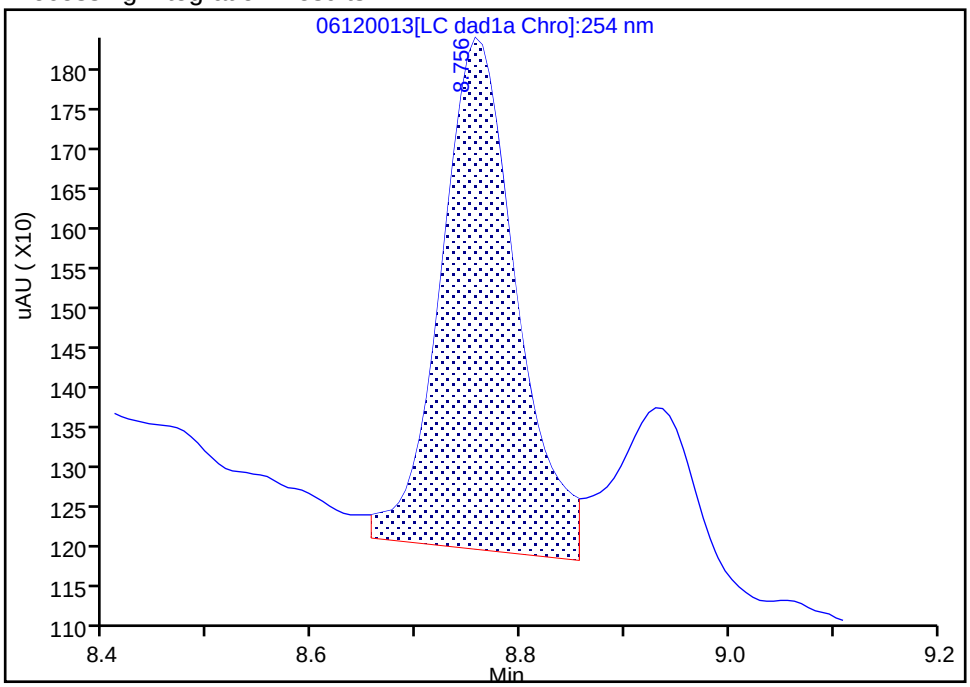
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120013.d				
Injection Date:	12-Jun-2020 15:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

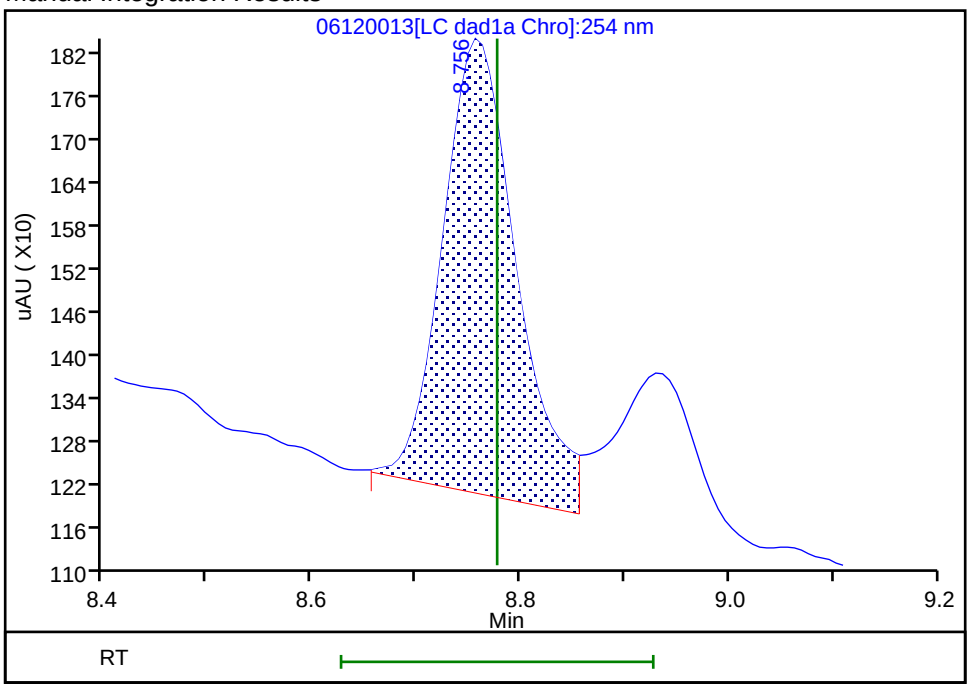
Processing Integration Results

RT: 8.76
Area: 3242
Amount: 0.023457
Amount Units: ug/mL



Manual Integration Results

RT: 8.76
Area: 3110
Amount: 0.022502
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 16:13:21
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

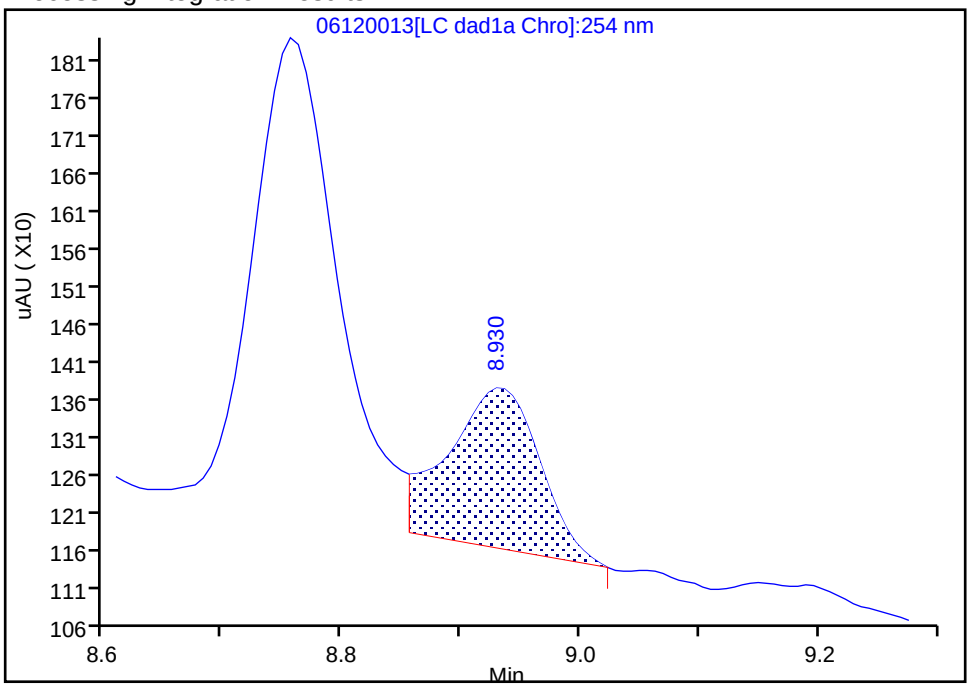
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120013.d				
Injection Date:	12-Jun-2020 15:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

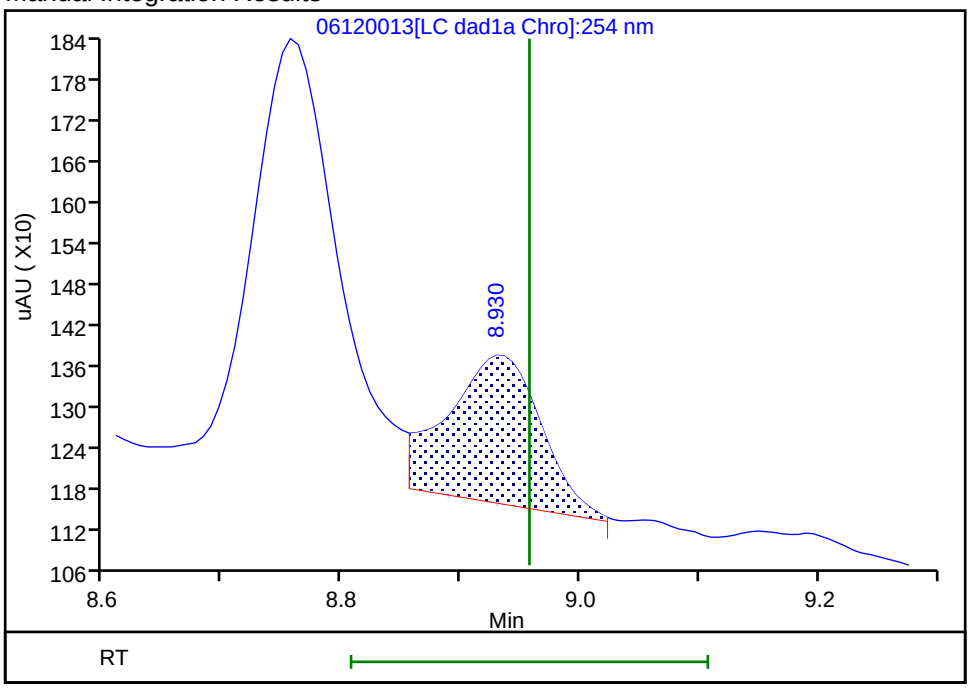
Processing Integration Results

RT: 8.93
Area: 1125
Amount: 0.004885
Amount Units: ug/mL



Manual Integration Results

RT: 8.93
Area: 1175
Amount: 0.005102
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 16:13:21
Audit Action: Assigned New Baseline Audit Reason: Baseline

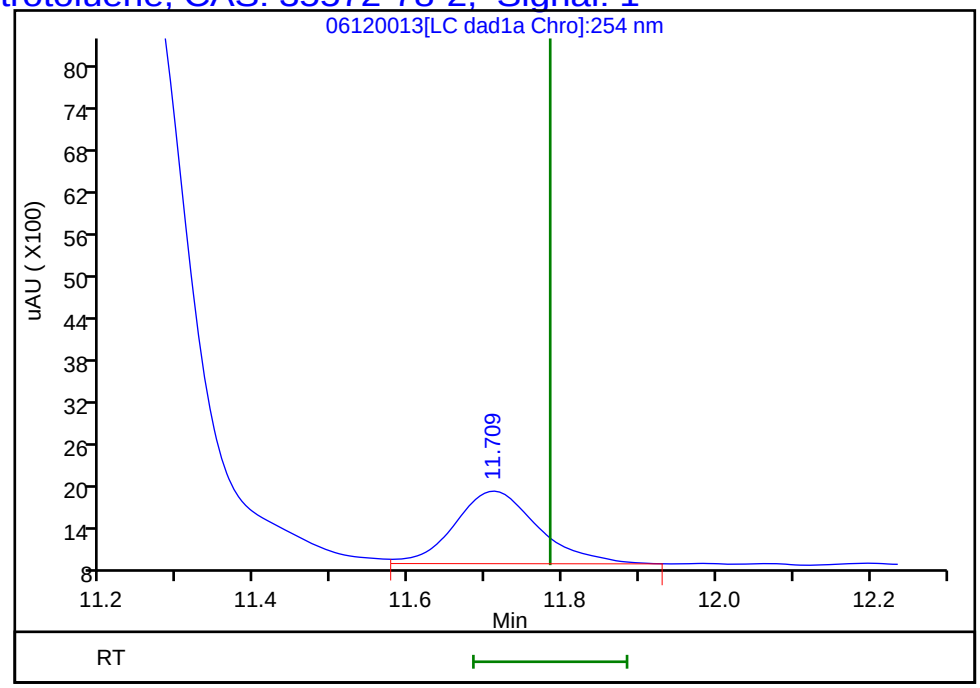
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120013.d				
Injection Date:	12-Jun-2020 15:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

RT: 11.71
Response: 7872
Amount: 0.038813



Reviewer: zhangji, 12-Jun-2020 16:13:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

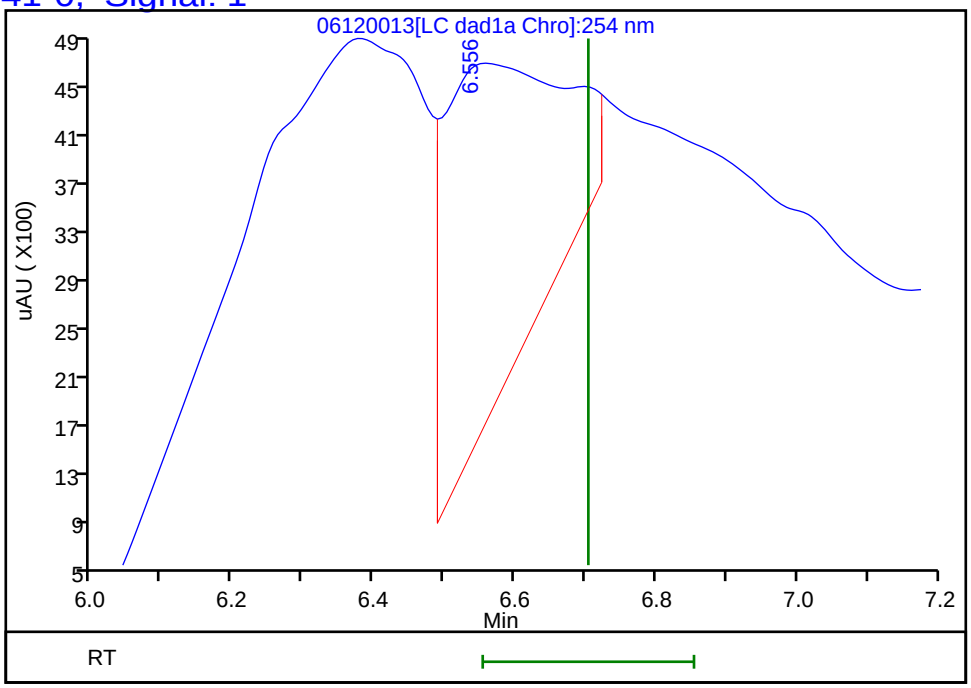
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120013.d				
Injection Date:	12-Jun-2020 15:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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: 6.56
Response: 31209
Amount: 0.363055



Reviewer: zhangji, 12-Jun-2020 16:13:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

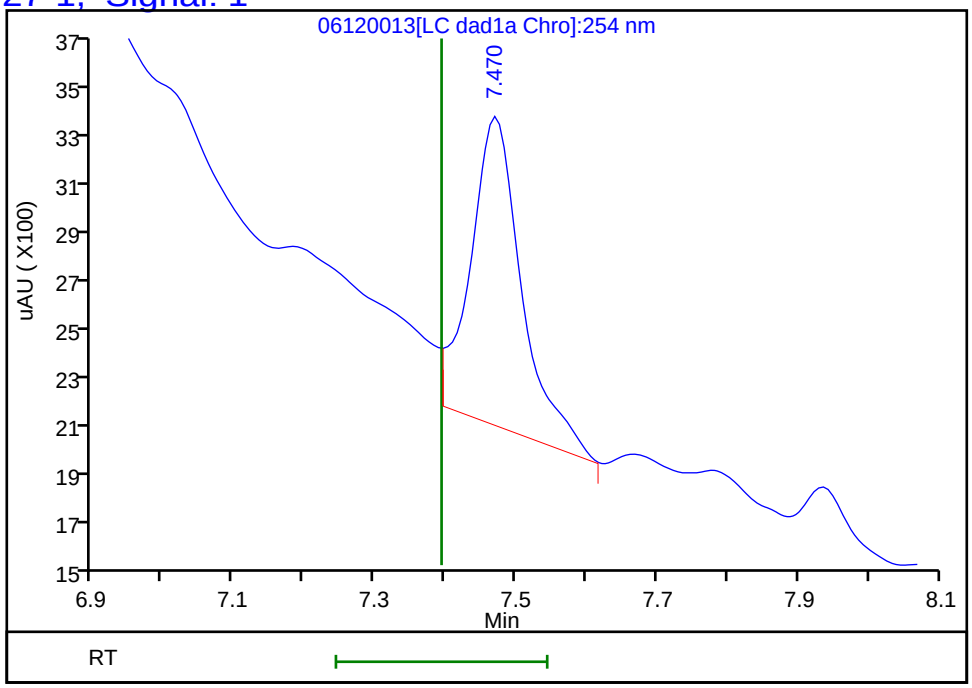
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120013.d				
Injection Date:	12-Jun-2020 15:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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: 7.47
Response: 6226
Amount: 0.039270



Reviewer: zhangji, 12-Jun-2020 16:13:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

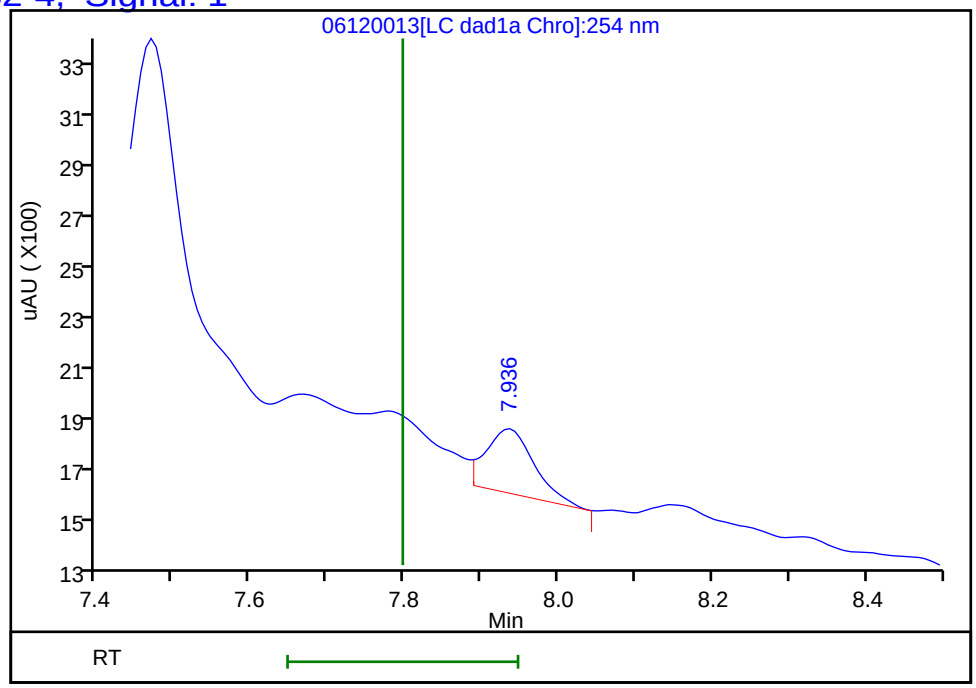
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120013.d				
Injection Date:	12-Jun-2020 15:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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: 7.94
Response: 1054
Amount: 0.009038



Reviewer: zhangji, 12-Jun-2020 16:13:26
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-25 DL
Lab Sample ID: 280-137006-1 DL
Matrix: Water
Lab File ID: 06120022.D
Analysis Method: 8330A
Date Collected: 05/26/2020 14:10
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 467.3(mL)
Date Analyzed: 06/13/2020 02:02
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 498568
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	80	*Q D*	83-119

FORM I 8330A

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120022.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	13-Jun-2020 02:02:52	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092371-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:53:22	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 17:51:23

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.161			ND	
7 MNX	1		7.876			ND	
8 RDX	1		9.387			ND	
9 Nitrobenzene	1		12.281			ND	
$ 10 1,2-Dinitrobenzene	1	13.278	13.294	-0.016	6292	0.0161	
12 1,3-Dinitrobenzene	1		15.827			ND	
14 o-Nitrotoluene	1		16.747			ND	
15 p-Nitrotoluene	1		17.041			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.464	17.487	-0.023	6850	0.0198	
17 m-Nitrotoluene	1		17.967			ND	U
18 2-Amino-4,6-dinitrotoluene	1	18.398	18.427	-0.029	23435	0.0504	
19 1,3,5-Trinitrobenzene	1		19.154			ND	U
20 2,6-Dinitrotoluene	1		20.081			ND	
21 2,4-Dinitrotoluene	1		20.601			ND	
22 Tetryl	1		23.908			ND	
23 2,4,6-Trinitrotoluene	1	24.891	24.914	-0.023	100704	0.2429	

QC Flag Legend

Review Flags

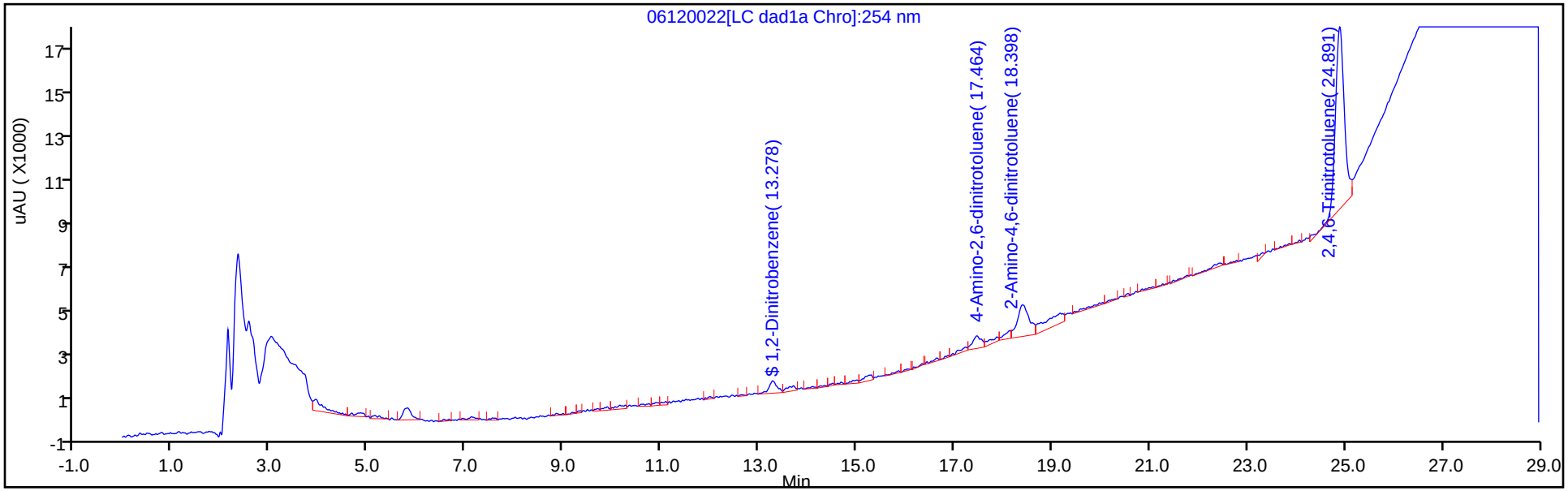
U - Marked Undetected

Report Date: 16-Jun-2020 18:53:24 Chrom Revision: 2.3 10-Jun-2020 22:46:48

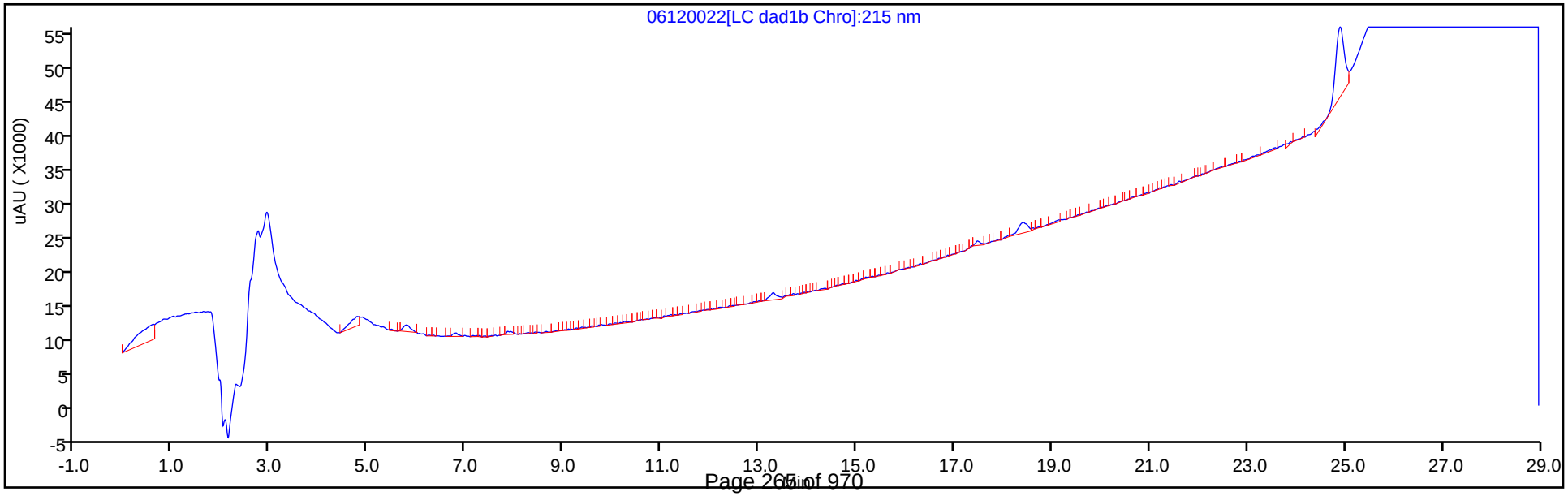
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120022.d				
Injection Date:	13-Jun-2020 02:02:52	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1	Worklist Smp#:	22
Client ID:	OS001-DP03-25				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120022.D				
Lims ID:	280-137006-A-1-A				
Client ID:	OS001-DP03-25				
Sample Type:	Client				
Inject. Date:	13-Jun-2020 02:02:52	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-A-1-A				
Misc. Info.:	280-0092371-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		

Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 18:53:22	Calib Date:	15-May-2020 02:11:20
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC DAD1A, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 16-Jun-2020 17:51:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0161	8.03

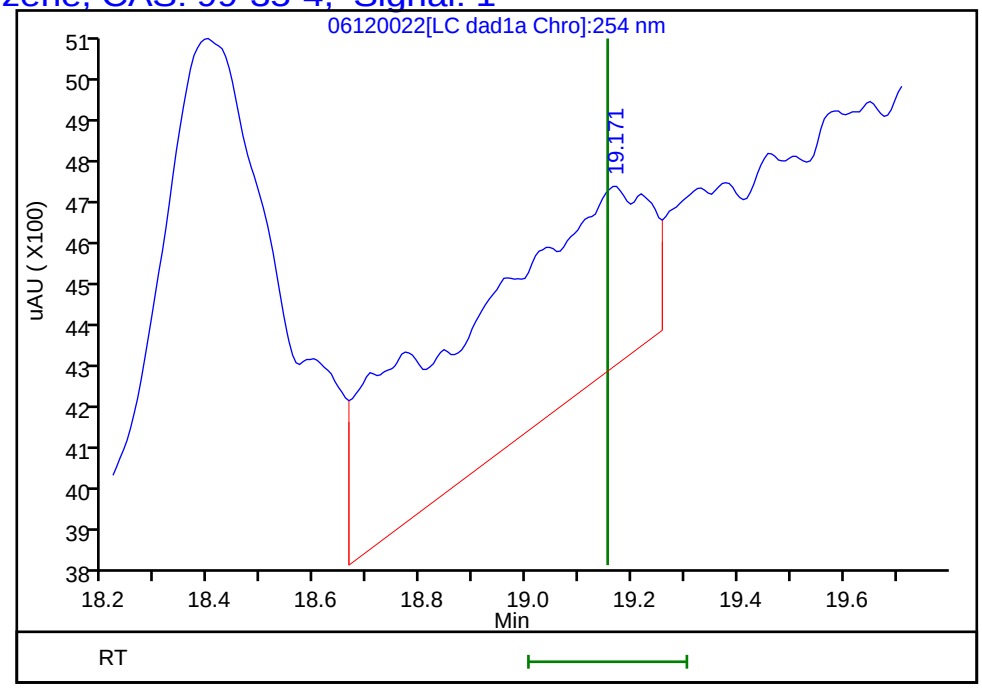
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120022.d				
Injection Date:	13-Jun-2020 02:02:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 19.17
Response: 13647
Amount: 0.028886



Reviewer: zhangji, 16-Jun-2020 17:51:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

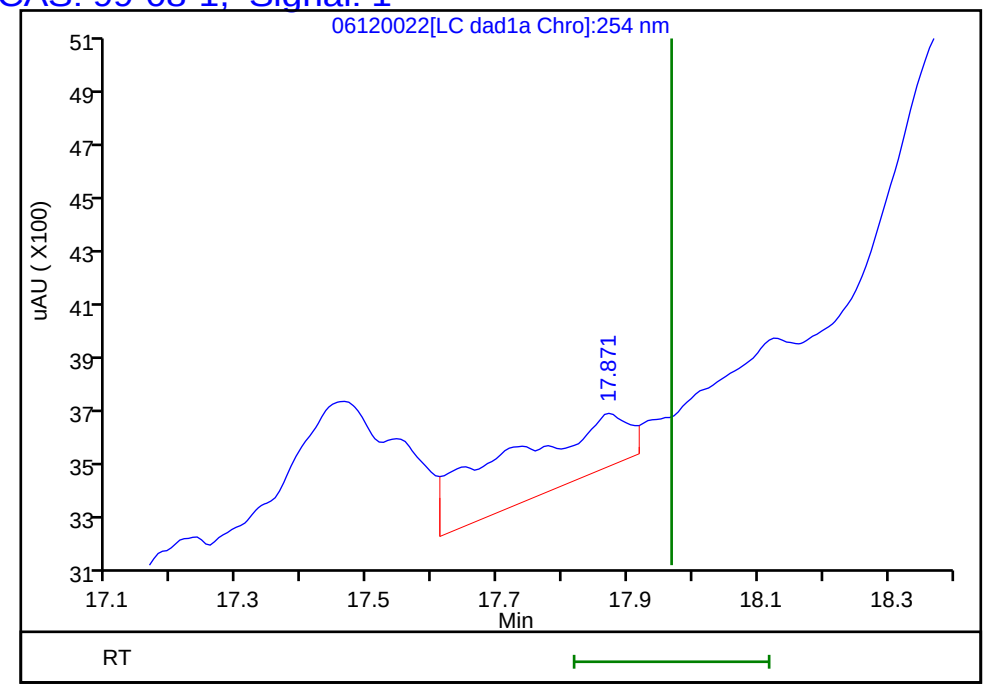
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120022.d				
Injection Date:	13-Jun-2020 02:02:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-1-A	Lab Sample ID:	280-137006-1		
Client ID:	OS001-DP03-25				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 17.87
Response: 3203
Amount: 0.010737



Reviewer: zhangji, 16-Jun-2020 17:51:23
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.: 280-137006-1
SDG No.:
Client Sample ID: OS501-DP03-25
Lab Sample ID: 280-137006-2
Matrix: Water
Lab File ID: 06120026.D
Analysis Method: 8330A
Date Collected: 05/26/2020 08:00
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 447.3(mL)
Date Analyzed: 06/12/2020 20:43
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.: 498537
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.35	M J1	0.23	0.22	0.094
99-65-0	1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.041
121-14-2	2,4-Dinitrotoluene	0.089	U	0.11	0.089	0.031
606-20-2	2,6-Dinitrotoluene	0.089	U	0.11	0.089	0.045
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.057
88-72-2	2-Nitrotoluene	0.22	U	0.23	0.22	0.096
99-08-1	3-Nitrotoluene	0.45	U M	0.45	0.45	0.22
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.17	0.13	0.064
99-99-0	4-Nitrotoluene	0.45	U M	0.46	0.45	0.11
2691-41-0	HMX	0.22	U	0.23	0.22	0.098
5755-27-1	MNX	0.45	U M	2.2	0.45	0.17
98-95-3	Nitrobenzene	0.22	U	0.23	0.22	0.10
121-82-4	RDX	0.22	U	0.23	0.22	0.058
479-45-8	Tetryl	0.11	U M	0.12	0.11	0.036

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	97	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120026.D				
Lims ID:	280-137006-B-2-A				
Client ID:	OS501-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 20:43:27	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-2-A				
Misc. Info.:	280-0092367-026				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				
First Level Reviewer: zhangji		Date:	16-Jun-2020 15:04:06		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.704			ND	
6 MNX	1		7.394			ND	U
7 RDX	1		7.797			ND	
$ 9 1,2-Dinitrobenzene	1	8.777	8.777	0.000	26699	0.1932	M
10 1,3,5-Trinitrobenzene	1	8.950	8.957	-0.007	7208	0.0313	M
11 1,3-Dinitrobenzene	1		9.617			ND	U
12 Nitrobenzene	1		10.004			ND	
14 Tetryl	1		10.330			ND	U
16 2,4,6-Trinitrotoluene	1	11.283	11.310	-0.027	534871	2.62	EM
17 4-Amino-2,6-dinitrotoluene	1		11.484			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.784			ND	U
19 2,6-Dinitrotoluene	1		11.924			ND	
20 2,4-Dinitrotoluene	1		12.124			ND	
21 o-Nitrotoluene	1		12.977			ND	
22 p-Nitrotoluene	1		13.424			ND	U
23 m-Nitrotoluene	1		14.030			ND	U

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount

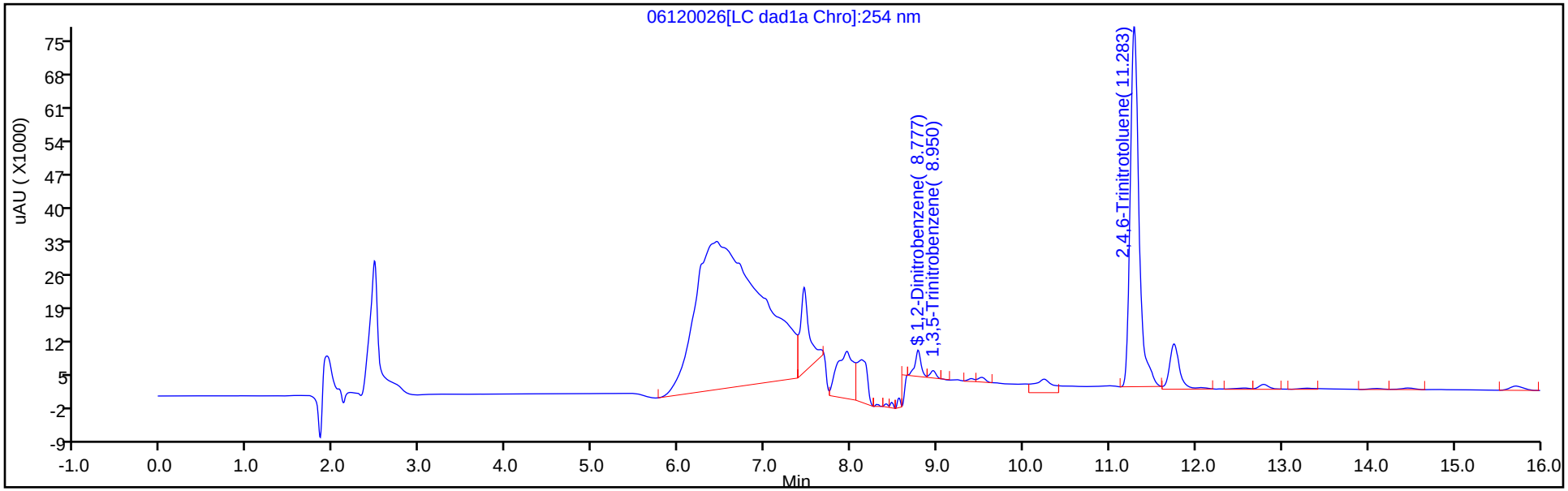
Review Flags
- M - Manually Integrated
- U - Marked Undetected

Report Date: 16-Jun-2020 20:56:08 Chrom Revision: 2.3 10-Jun-2020 22:46:48

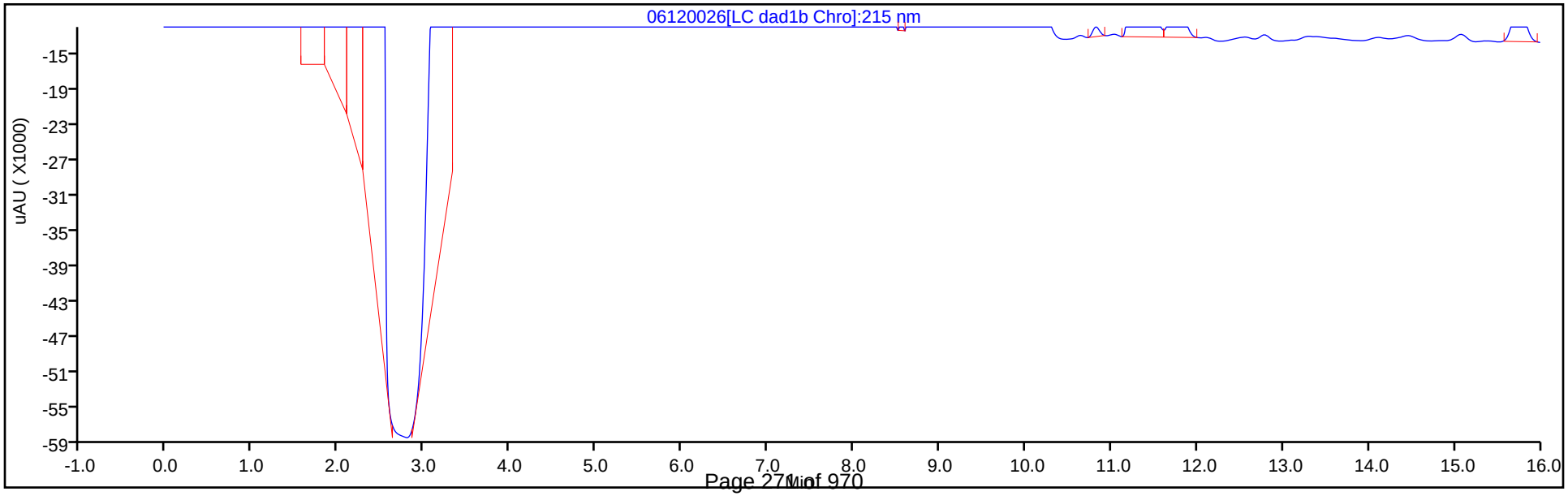
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2	Worklist Smp#:	26
Client ID:	OS501-DP03-25				
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\20200612-92367.b\06120026.D				
Lims ID:	280-137006-B-2-A				
Client ID:	OS501-DP03-25				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 20:43:27	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-2-A				
Misc. Info.:	280-0092367-026				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 16-Jun-2020 15:04:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1932	96.59

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

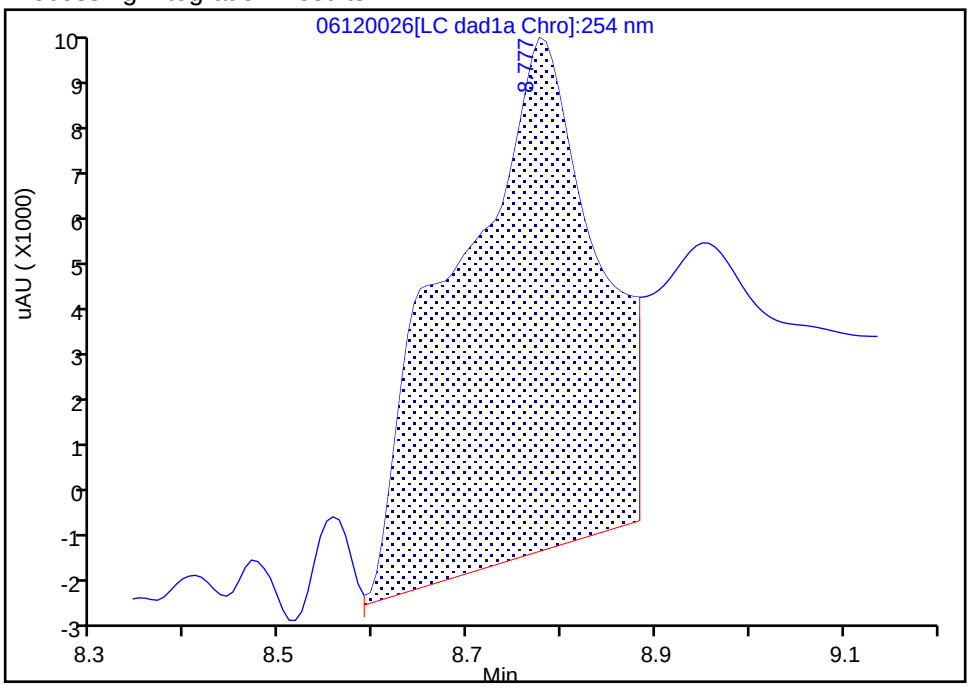
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	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

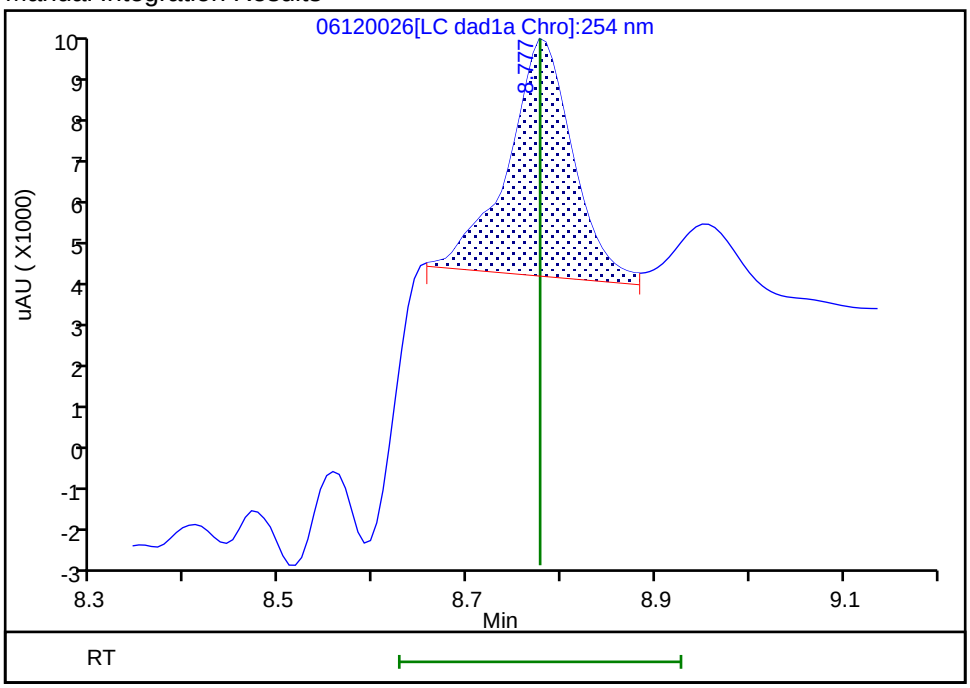
Processing Integration Results

RT: 8.78
Area: 112322
Amount: 0.812678
Amount Units: ug/mL



Manual Integration Results

RT: 8.78
Area: 26699
Amount: 0.193174
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 15:03:19

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

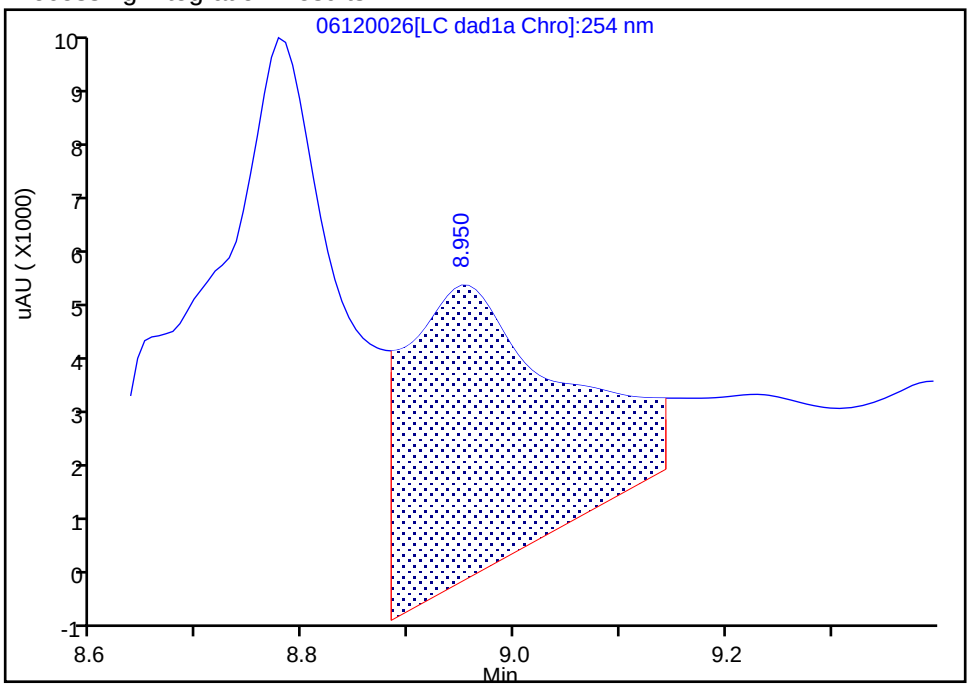
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

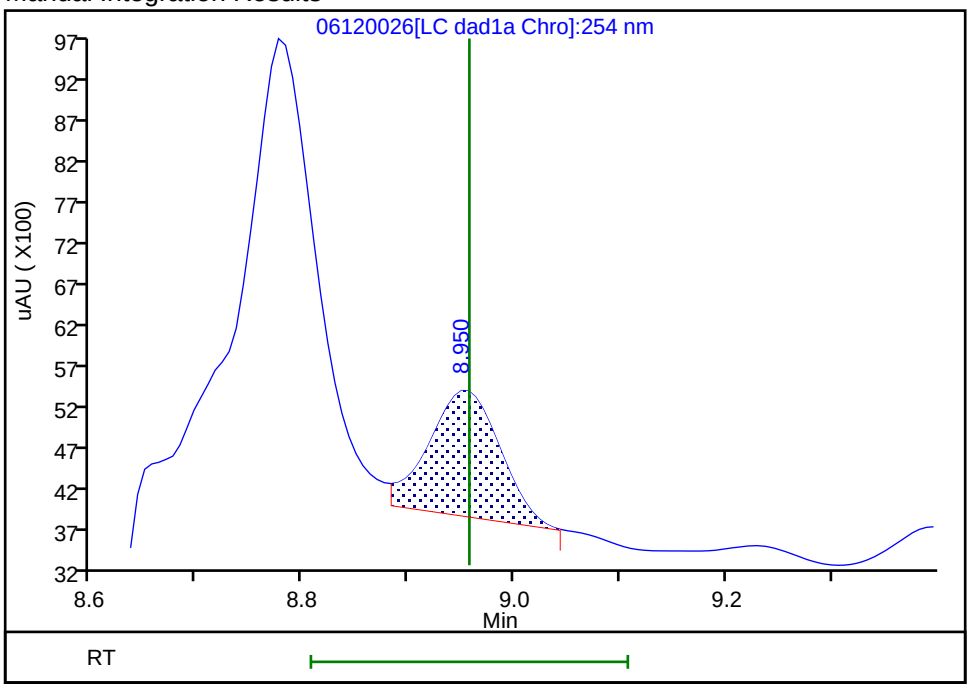
Processing Integration Results

RT: 8.95
Area: 51552
Amount: 0.223839
Amount Units: ug/mL



Manual Integration Results

RT: 8.95
Area: 7208
Amount: 0.031297
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 15:03:23

Audit Action: Split an Integrated Peak Audit Reason: Baseline

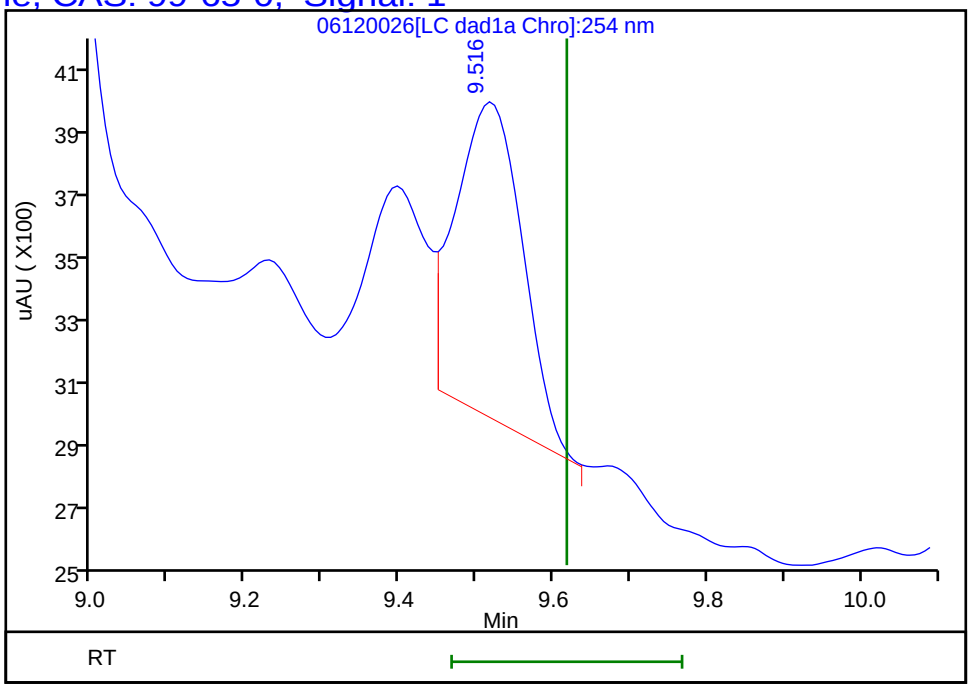
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
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		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.52
Response: 5859
Amount: 0.019104



Reviewer: zhangji, 16-Jun-2020 15:04:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

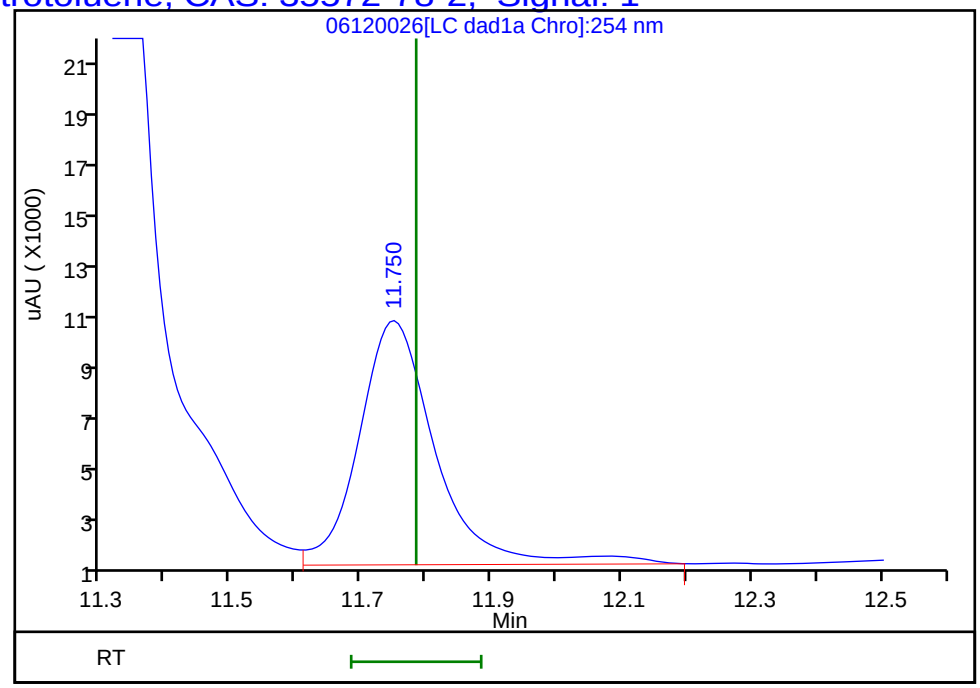
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
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		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 11.75
Response: 78043
Amount: 0.384796



Reviewer: zhangji, 16-Jun-2020 15:04:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

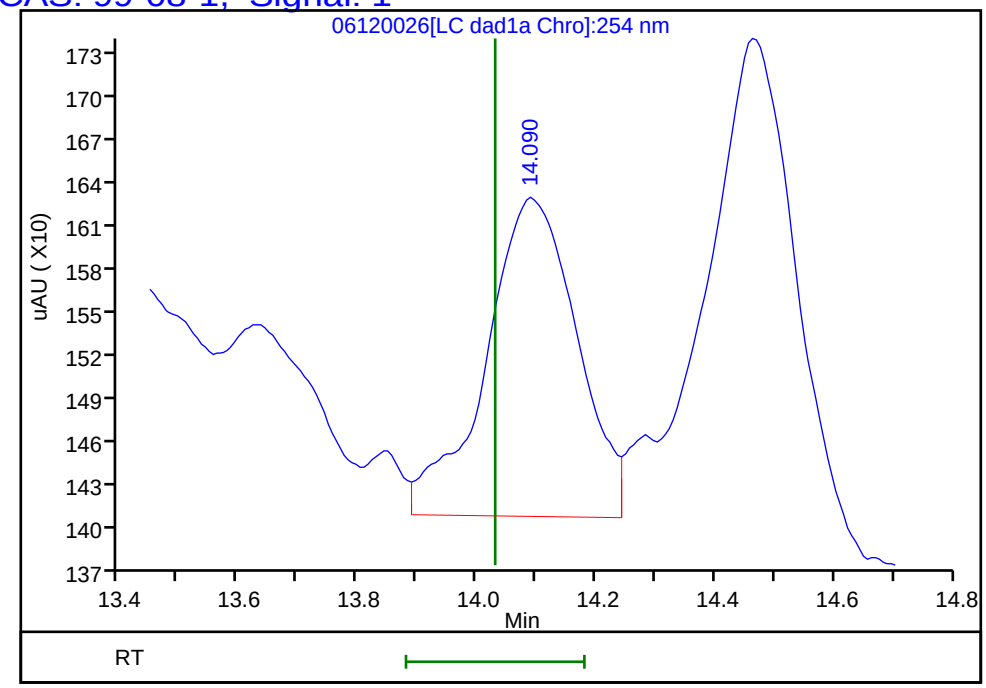
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
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		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 14.09
Response: 2285
Amount: 0.015976



Reviewer: zhangji, 16-Jun-2020 15:04:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

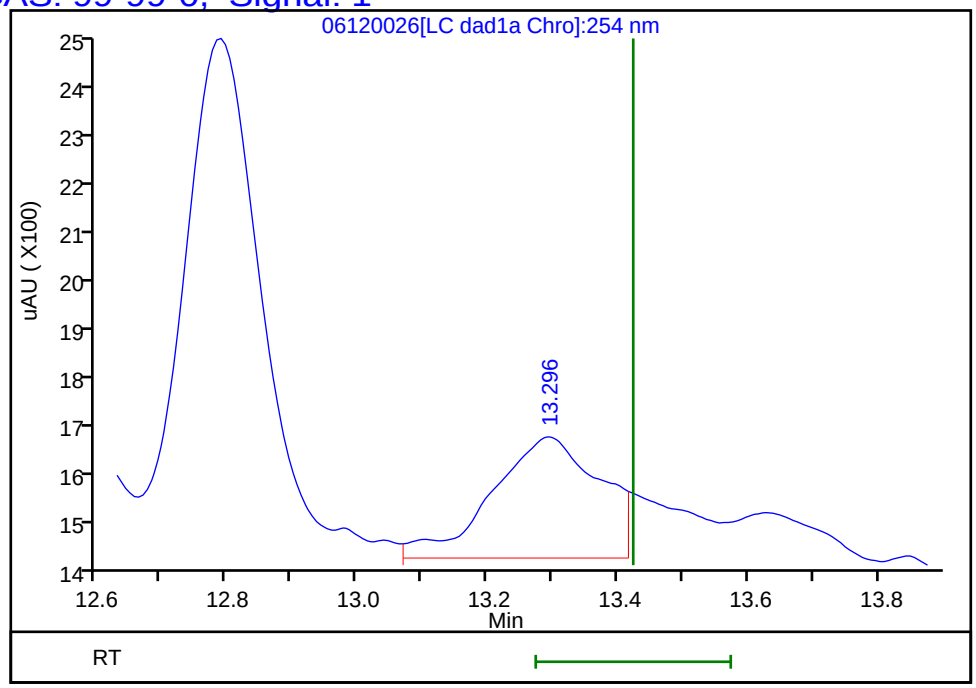
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
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: 13.30
Response: 2738
Amount: 0.024229



Reviewer: zhangji, 16-Jun-2020 15:04:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

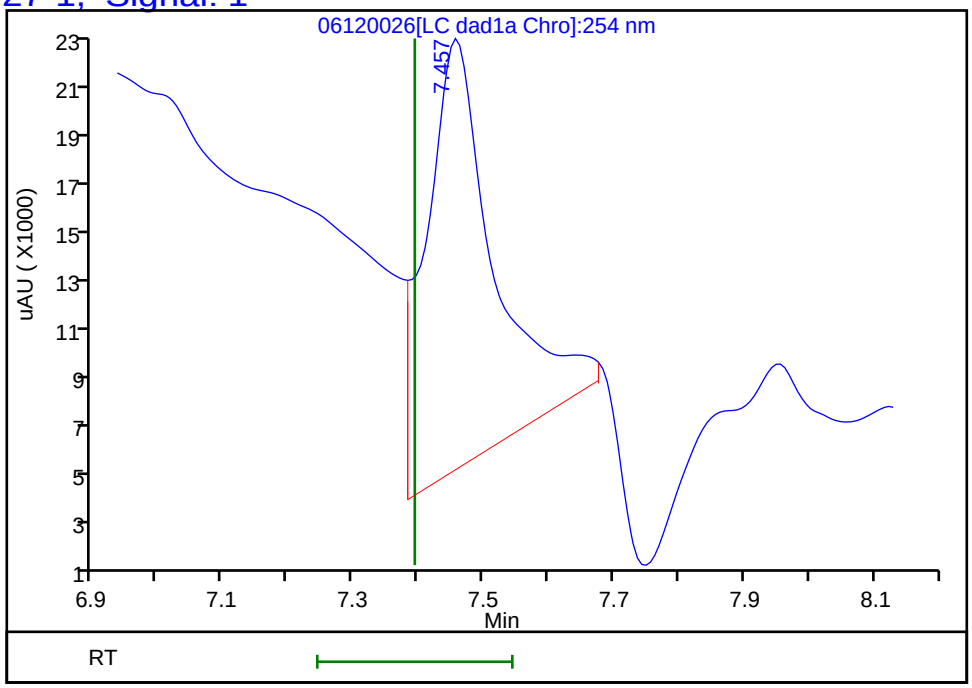
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
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		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.46
Response: 128678
Amount: 0.811622



Reviewer: zhangji, 16-Jun-2020 15:04:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

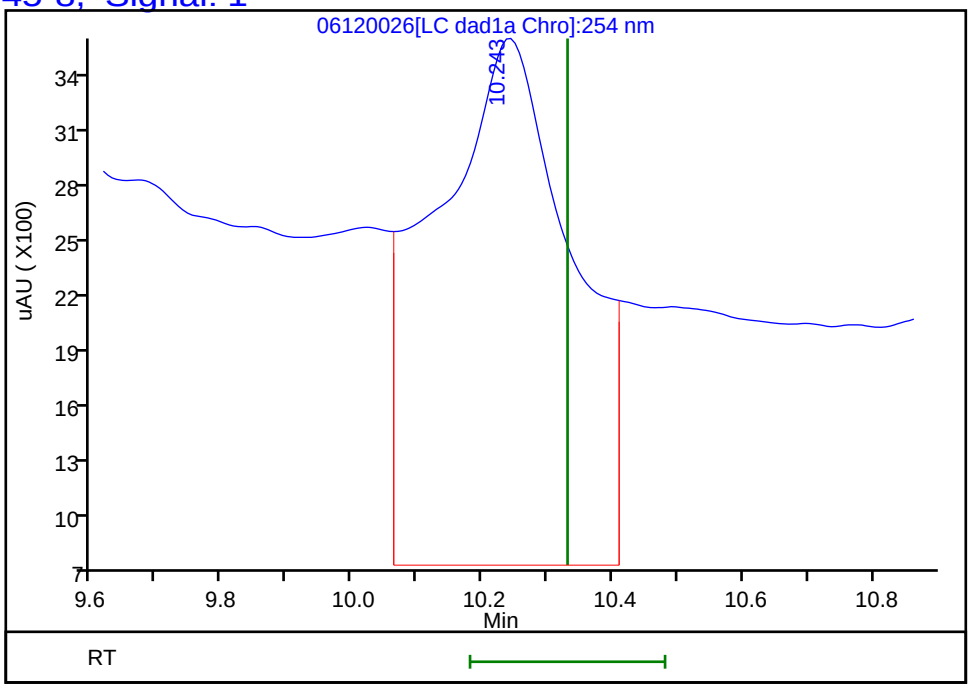
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120026.d				
Injection Date:	12-Jun-2020 20:43:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
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		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.24
Response: 42318
Amount: 0.239042



Reviewer: zhangji, 16-Jun-2020 15:04:06
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.: 280-137006-1
SDG No.:
Client Sample ID: OS501-DP03-25
Lab Sample ID: 280-137006-2
Matrix: Water
Lab File ID: 06170014.D
Analysis Method: 8330A
Date Collected: 05/26/2020 08:00
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 447.3(mL)
Date Analyzed: 06/17/2020 22:00
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.: 499146
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*0.57*	*J1*	*0.23*	0.22	*0.094*

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\G2_LUNA\20200617-92518.b\06170014.D
Lims ID: 280-137006-B-2-A
Client ID: OS501-DP03-25
Sample Type: Client
Inject. Date: 17-Jun-2020 22:00:09 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-B-2-A
Misc. Info.: 280-0092518-014
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 17:36:24 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 17:22:39

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	7.153	7.150	0.003	7435	0.0119	
7 MNX	1		7.876			ND	
8 RDX	1	9.373	9.369	0.004	4469	0.0183	
9 Nitrobenzene	1		12.269			ND	
$ 10 1,2-Dinitrobenzene	1	13.273	13.276	-0.003	55280	0.1928	
12 1,3-Dinitrobenzene	1		15.809			ND	
14 o-Nitrotoluene	1		16.743			ND	U
15 p-Nitrotoluene	1		17.023			ND	U
16 4-Amino-2,6-dinitrotoluene	1	17.453	17.463	-0.010	61979	0.1795	
17 m-Nitrotoluene	1		17.956			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.386	18.396	-0.010	169759	0.3649	
19 1,3,5-Trinitrobenzene	1	19.126	19.136	-0.010	24093	0.0510	
20 2,6-Dinitrotoluene	1		20.056			ND	
21 2,4-Dinitrotoluene	1		20.570			ND	U
22 Tetryl	1		23.870			ND	
23 2,4,6-Trinitrotoluene	1	24.880	24.883	-0.003	926615	2.30	

QC Flag Legend

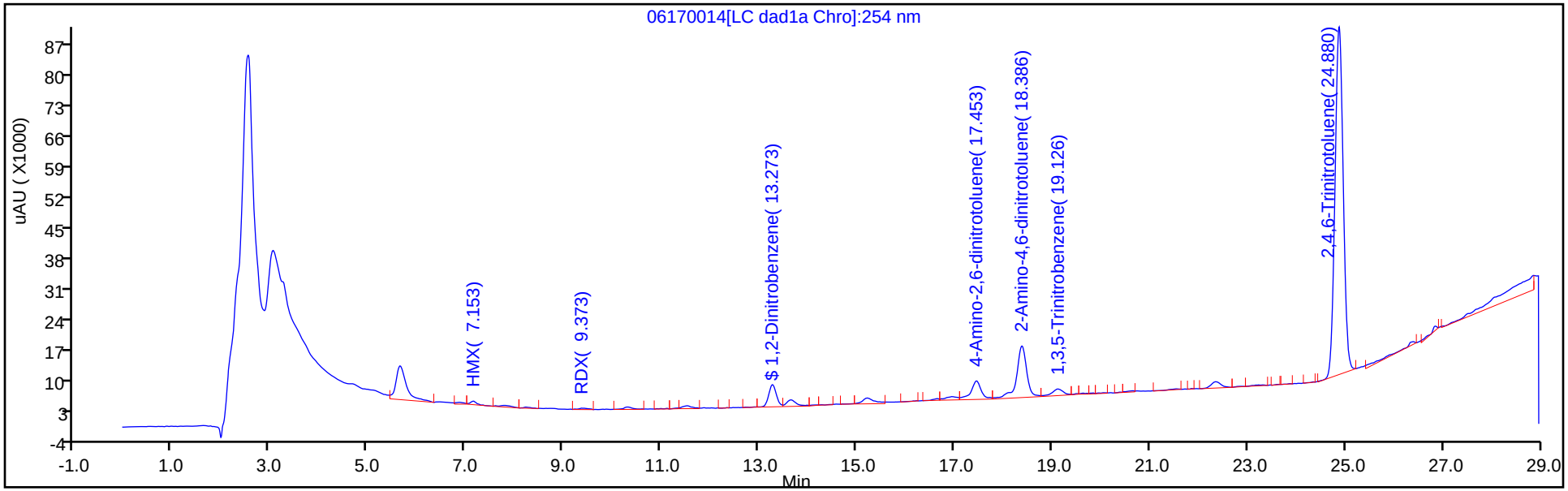
Review Flags
U - Marked Undetected

Report Date: 18-Jun-2020 17:36:27 Chrom Revision: 2.3 17-Jun-2020 19:07:08

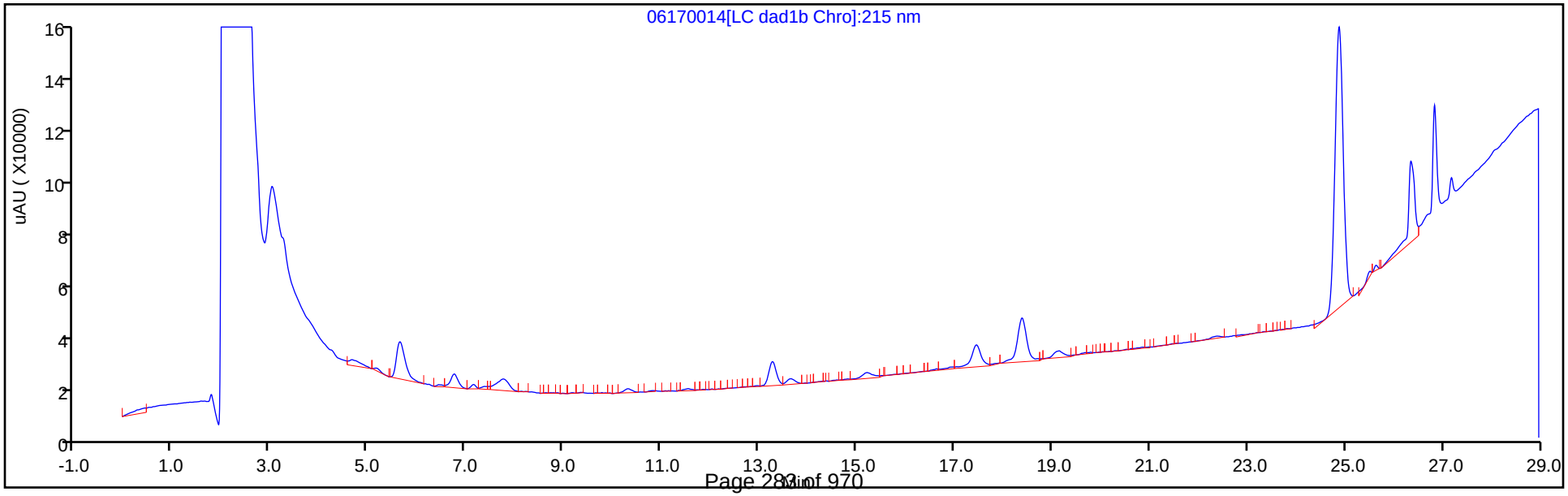
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170014.d				
Injection Date:	17-Jun-2020 22:00:09	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-B-2-A	Lab Sample ID:		Worklist Smp#:	14
Client ID:	OS501-DP03-25				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170014.D				
Lims ID:	280-137006-B-2-A				
Client ID:	OS501-DP03-25				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 22:00:09	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-2-A				
Misc. Info.:	280-0092518-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:22:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1928	96.38

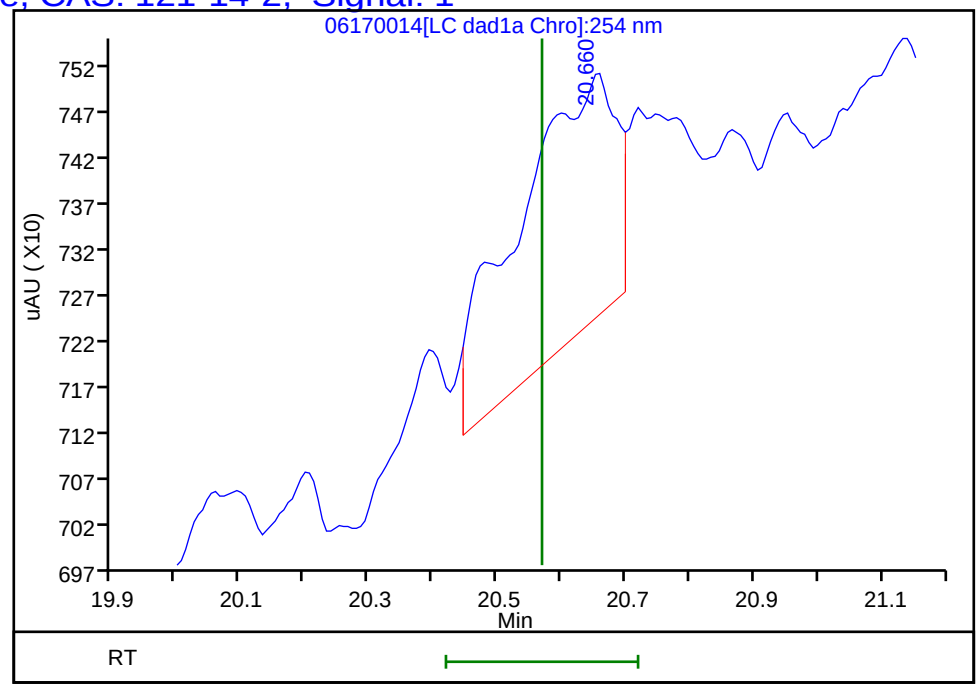
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170014.d				
Injection Date:	17-Jun-2020 22:00:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:			
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 20.66
Response: 3061
Amount: 0.004782



Reviewer: zhangji, 18-Jun-2020 17:22:39
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

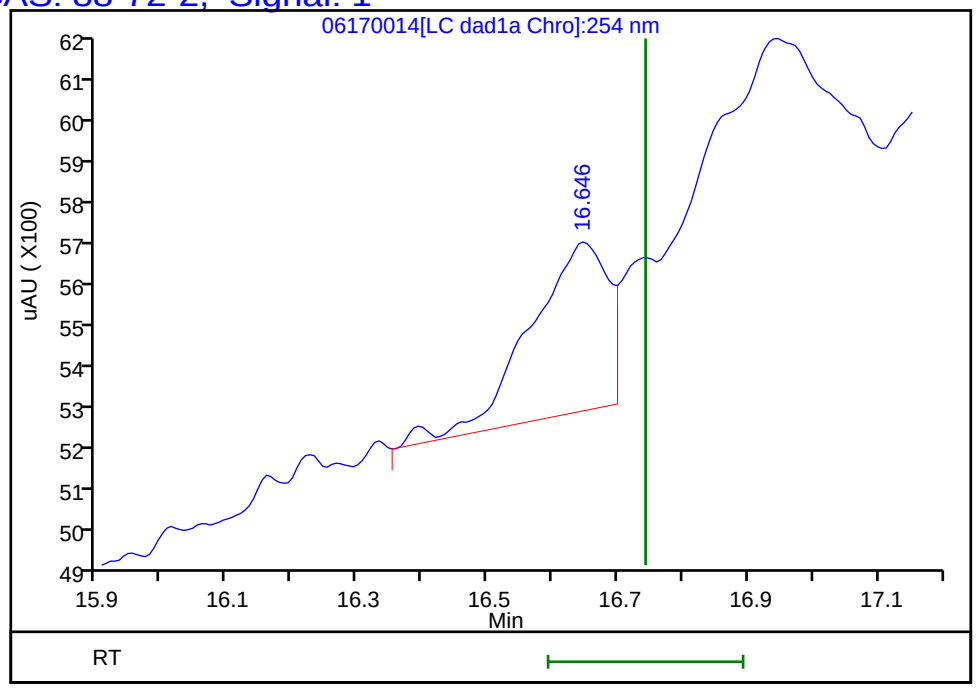
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170014.d				
Injection Date:	17-Jun-2020 22:00:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:			
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.65
Response: 3203
Amount: 0.011734



Reviewer: zhangji, 18-Jun-2020 17:22:39
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

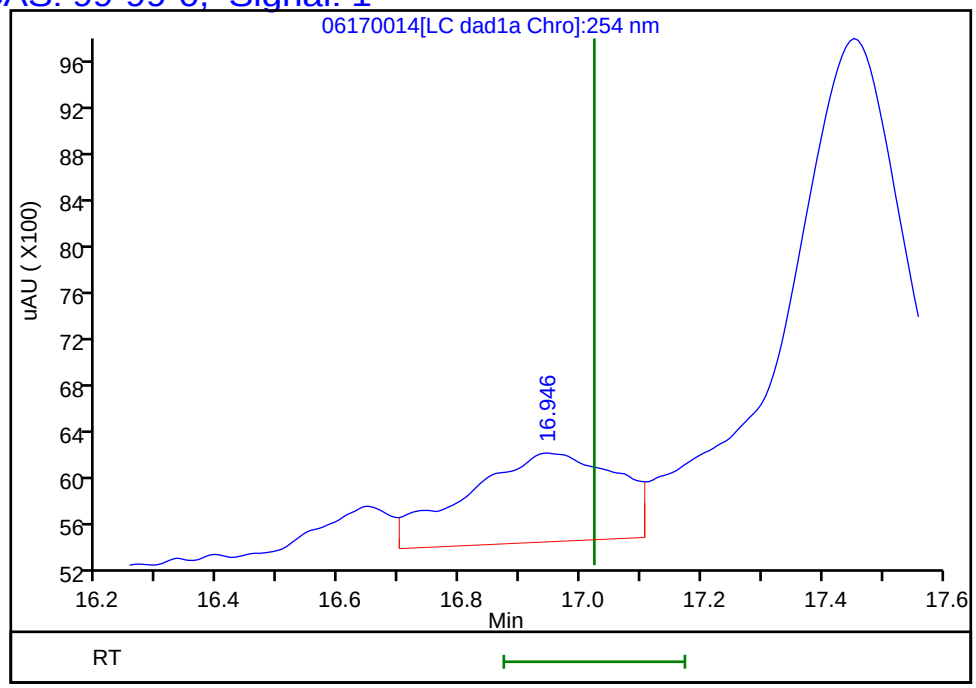
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170014.d				
Injection Date:	17-Jun-2020 22:00:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:			
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 16.95
Response: 13222
Amount: 0.054890



Reviewer: zhangji, 18-Jun-2020 17:22:39
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.: 280-137006-1
SDG No.:
Client Sample ID: OS501-DP03-25 DL
Lab Sample ID: 280-137006-2 DL
Matrix: Water
Lab File ID: 06170010.D
Analysis Method: 8330A
Date Collected: 05/26/2020 08:00
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 447.3(mL)
Date Analyzed: 06/17/2020 19:12
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 499164
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
118-96-7	2,4,6-Trinitrotoluene	29	D	1.2	1.1	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	116	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170010.D				
Lims ID:	280-137006-B-2-A				
Client ID:	OS501-DP03-25				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 19:12:16	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-2-A				
Misc. Info.:	280-0092523-010				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:45:56	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				
First Level Reviewer: zhangji		Date:	17-Jun-2020 20:02:34		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.725			ND	
6 MNX	1		7.400			ND	U
7 RDX	1		7.792			ND	
$ 9 1,2-Dinitrobenzene	1	8.752	8.752	0.000	3197	0.0231	M
10 1,3,5-Trinitrobenzene	1	8.932	8.932	0.000	1154	0.005011	M
11 1,3-Dinitrobenzene	1		9.578			ND	
12 Nitrobenzene	1		9.952			ND	
14 Tetryl	1		10.258			ND	
16 2,4,6-Trinitrotoluene	1	11.225	11.238	-0.013	53556	0.2625	
17 4-Amino-2,6-dinitrotoluene	1		11.398			ND	
18 2-Amino-4,6-dinitrotoluene	1	11.685	11.692	-0.007	6751	0.0333	
19 2,6-Dinitrotoluene	1		11.838			ND	
20 2,4-Dinitrotoluene	1		12.038			ND	
21 o-Nitrotoluene	1		12.865			ND	
22 p-Nitrotoluene	1		13.292			ND	
23 m-Nitrotoluene	1		13.885			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

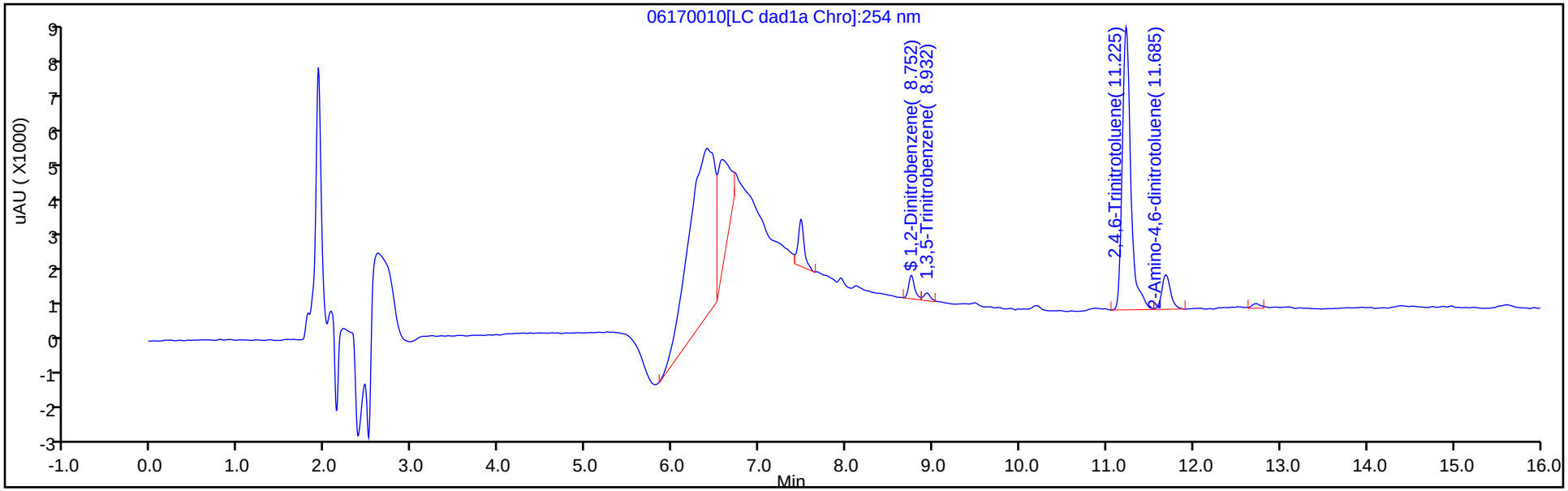
U - Marked Undetected

Report Date: 18-Jun-2020 20:45:57 Chrom Revision: 2.3 17-Jun-2020 19:07:08

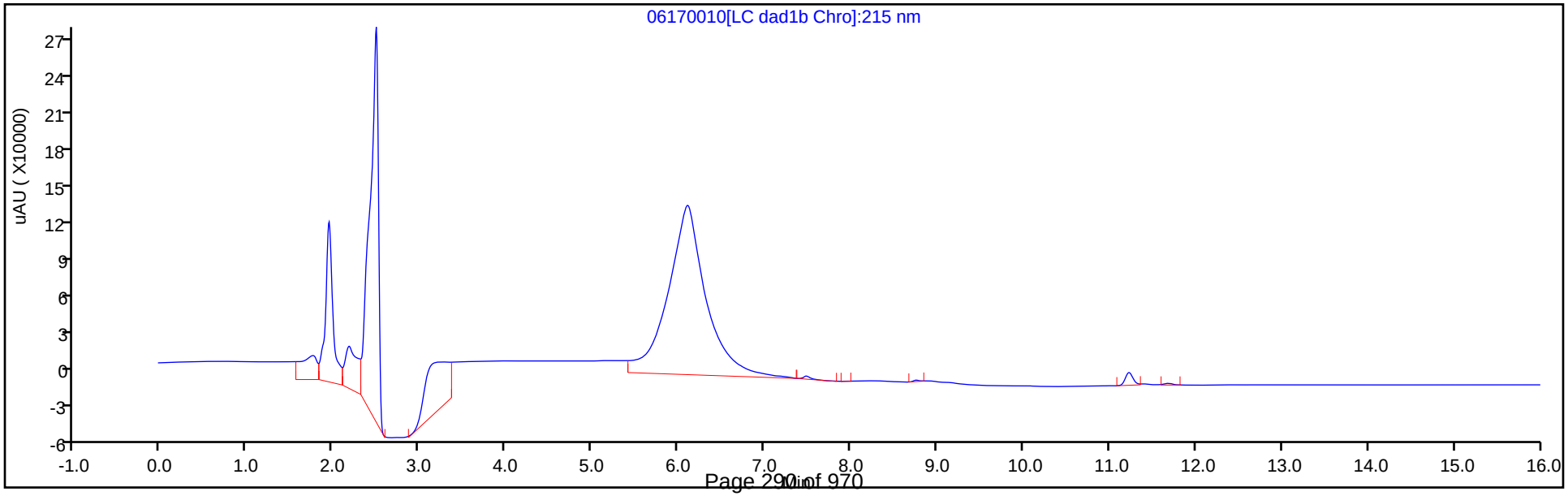
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170010.d				
Injection Date:	17-Jun-2020 19:12:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2	Worklist Smp#:	10
Client ID:	OS501-DP03-25				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	10
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\20200617-92523.b\06170010.D				
Lims ID:	280-137006-B-2-A				
Client ID:	OS501-DP03-25				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 19:12:16	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-2-A				
Misc. Info.:	280-0092523-010				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:45:56	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 17-Jun-2020 20:02:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0231	11.57

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

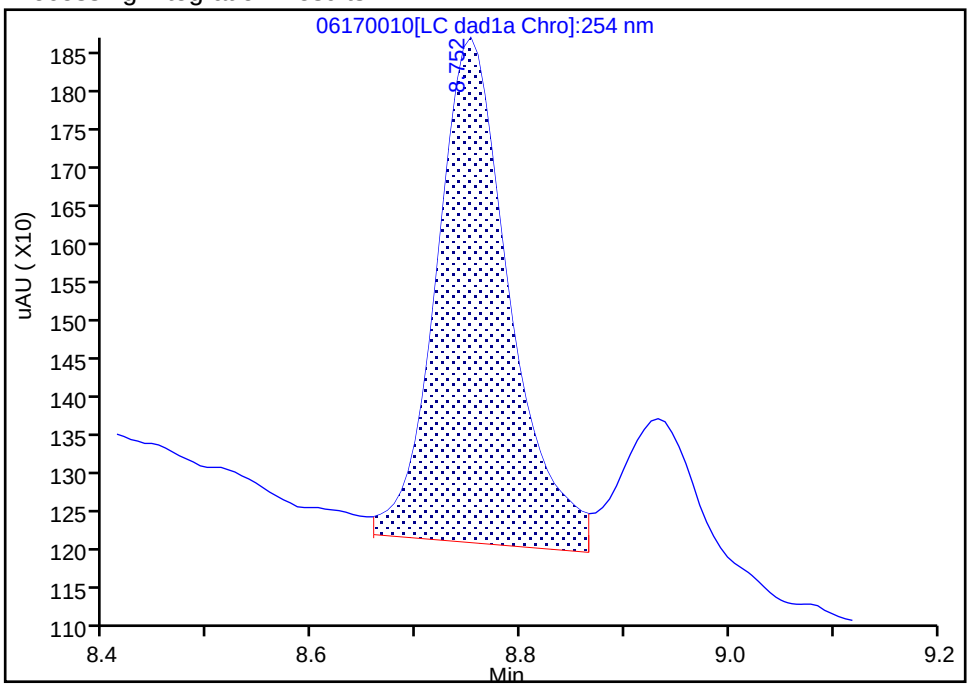
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170010.d				
Injection Date:	17-Jun-2020 19:12:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

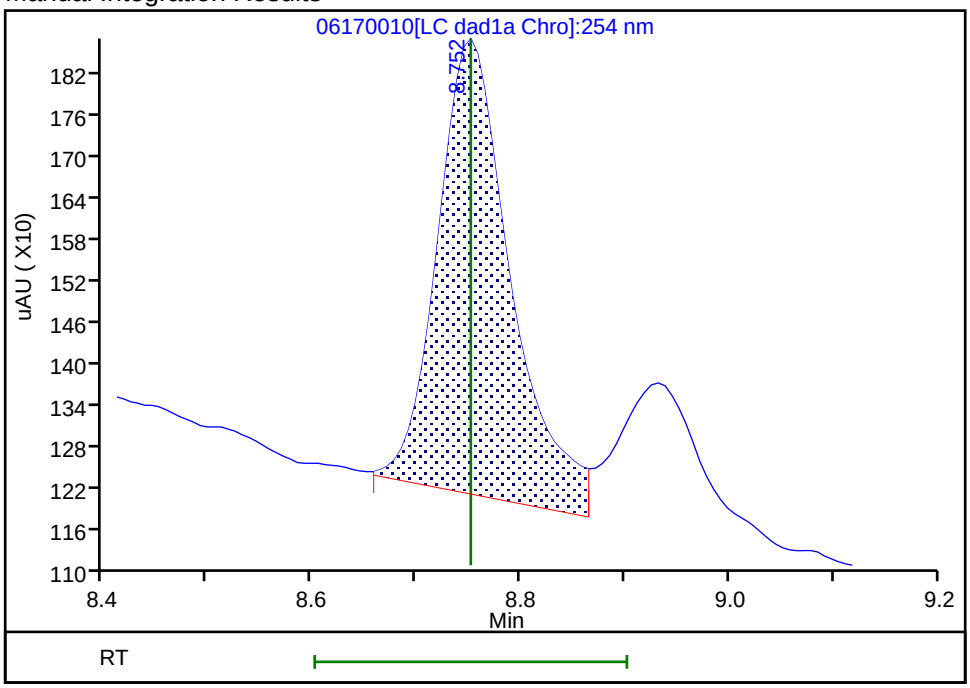
Processing Integration Results

RT: 8.75
Area: 3191
Amount: 0.023088
Amount Units: ug/mL



Manual Integration Results

RT: 8.75
Area: 3197
Amount: 0.023131
Amount Units: ug/mL



Reviewer: zhangji, 17-Jun-2020 20:02:31
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

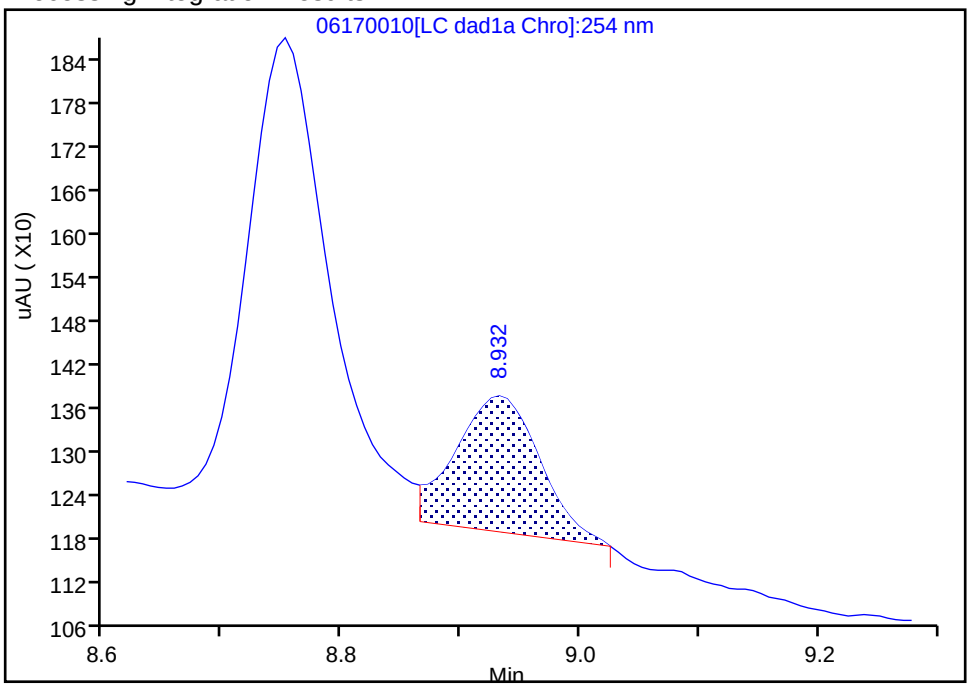
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170010.d				
Injection Date:	17-Jun-2020 19:12:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

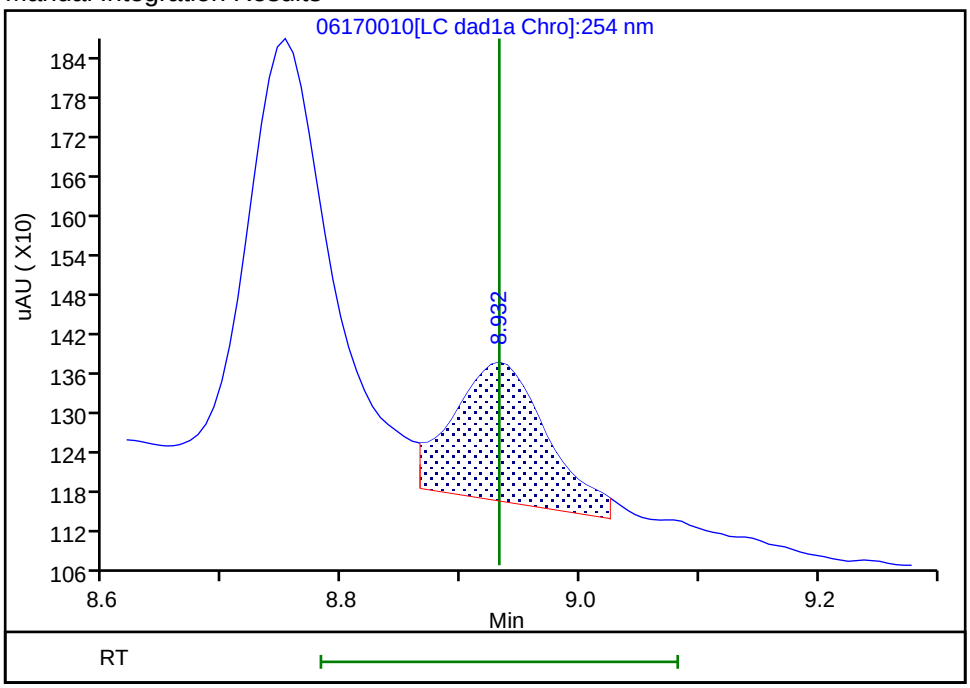
Processing Integration Results

RT: 8.93
Area: 914
Amount: 0.003969
Amount Units: ug/mL



Manual Integration Results

RT: 8.93
Area: 1154
Amount: 0.005011
Amount Units: ug/mL



Reviewer: zhangji, 17-Jun-2020 20:02:31
Audit Action: Assigned New Baseline Audit Reason: Baseline

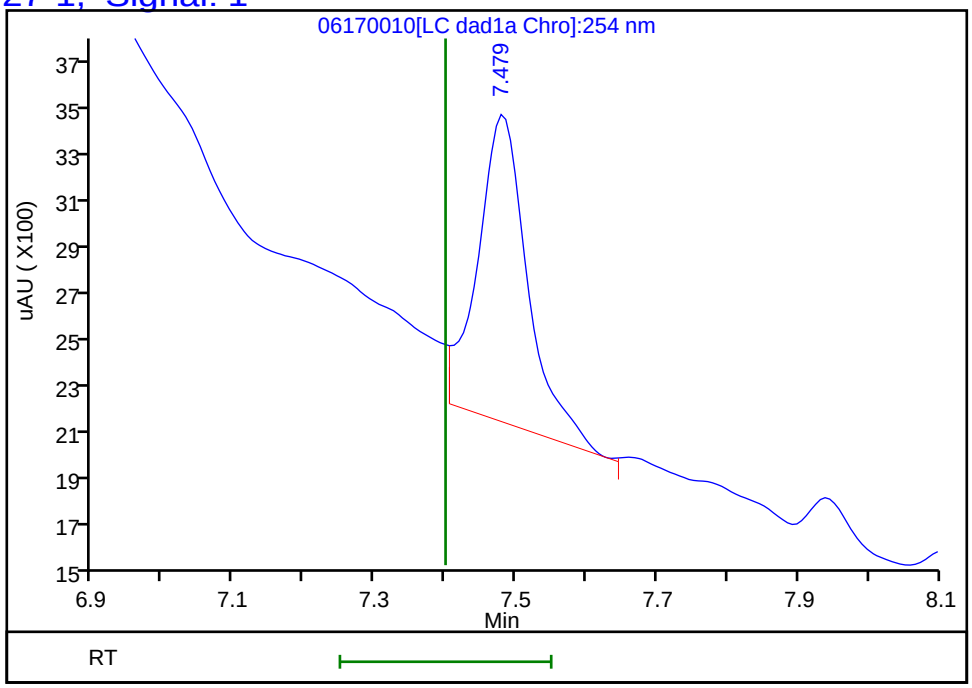
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170010.d				
Injection Date:	17-Jun-2020 19:12:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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: 7.48
Response: 6387
Amount: 0.040285



Reviewer: zhangji, 17-Jun-2020 20:02:34
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.: 280-137006-1
SDG No.:
Client Sample ID: OS501-DP03-25 DL
Lab Sample ID: 280-137006-2 DL
Matrix: Water
Lab File ID: 06170015.D
Analysis Method: 8330A
Date Collected: 05/26/2020 08:00
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 447.3(mL)
Date Analyzed: 06/17/2020 22:35
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 499146
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	88	*M*	83-119

FORM I 8330A

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170015.D				
Lims ID:	280-137006-B-2-A				
Client ID:	OS501-DP03-25				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 22:35:09	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-2-A				
Misc. Info.:	280-0092518-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:23:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.150			ND	
7 MNX	1		7.876			ND	
8 RDX	1		9.369			ND	
9 Nitrobenzene	1		12.269			ND	
$ 10 1,2-Dinitrobenzene	1	13.285	13.276	0.009	6699	0.0175	M
12 1,3-Dinitrobenzene	1		15.809			ND	
14 o-Nitrotoluene	1		16.743			ND	
15 p-Nitrotoluene	1		17.023			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.458	17.463	-0.005	5503	0.0159	M
17 m-Nitrotoluene	1		17.956			ND	MU
18 2-Amino-4,6-dinitrotoluene	1	18.405	18.396	0.009	15790	0.0339	M
19 1,3,5-Trinitrobenzene	1	19.152	19.136	0.016	3674	0.007776	
20 2,6-Dinitrotoluene	1		20.056			ND	
21 2,4-Dinitrotoluene	1		20.570			ND	
22 Tetryl	1		23.870			ND	U
23 2,4,6-Trinitrotoluene	1	24.885	24.883	0.002	107608	0.2601	

QC Flag Legend

Review Flags

M - Manually Integrated

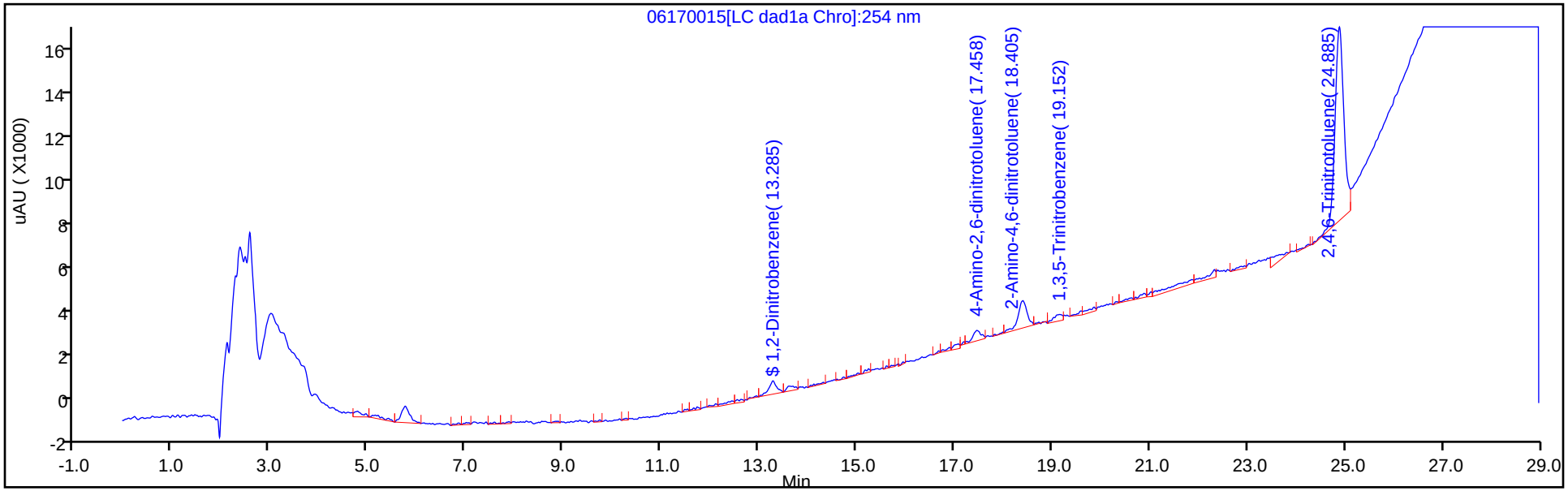
U - Marked Undetected

Report Date: 18-Jun-2020 17:36:26 Chrom Revision: 2.3 17-Jun-2020 19:07:08

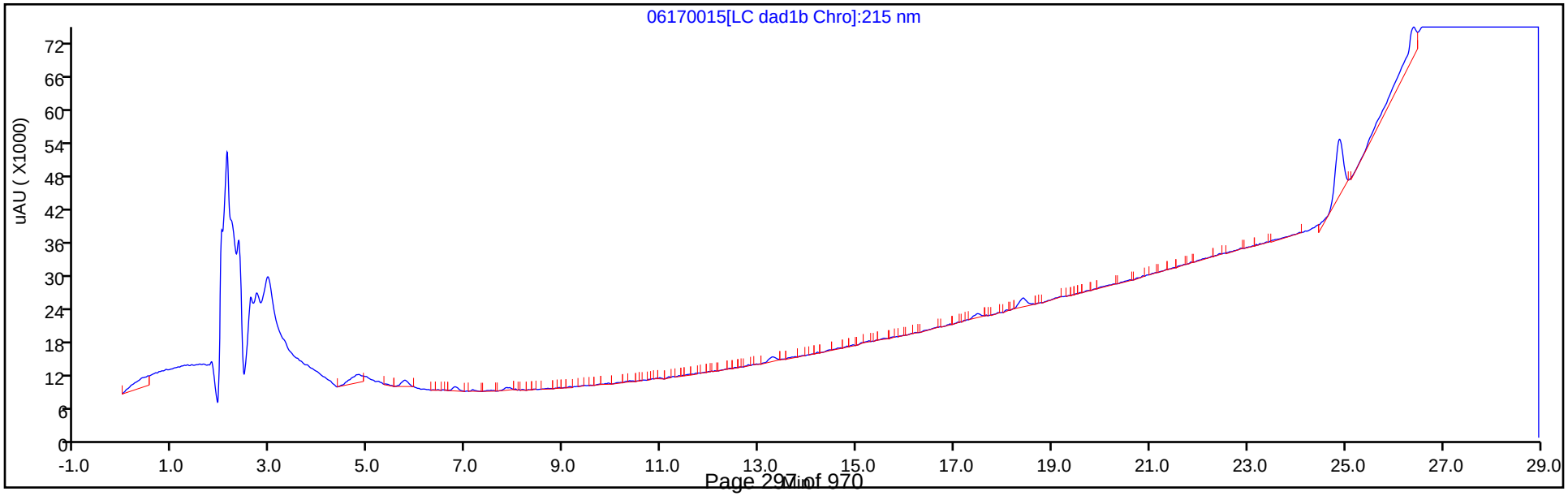
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170015.d				
Injection Date:	17-Jun-2020 22:35:09	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2	Worklist Smp#:	15
Client ID:	OS501-DP03-25				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	15
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170015.D				
Lims ID:	280-137006-B-2-A				
Client ID:	OS501-DP03-25				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 22:35:09	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-2-A				
Misc. Info.:	280-0092518-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:23:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0175	8.77

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

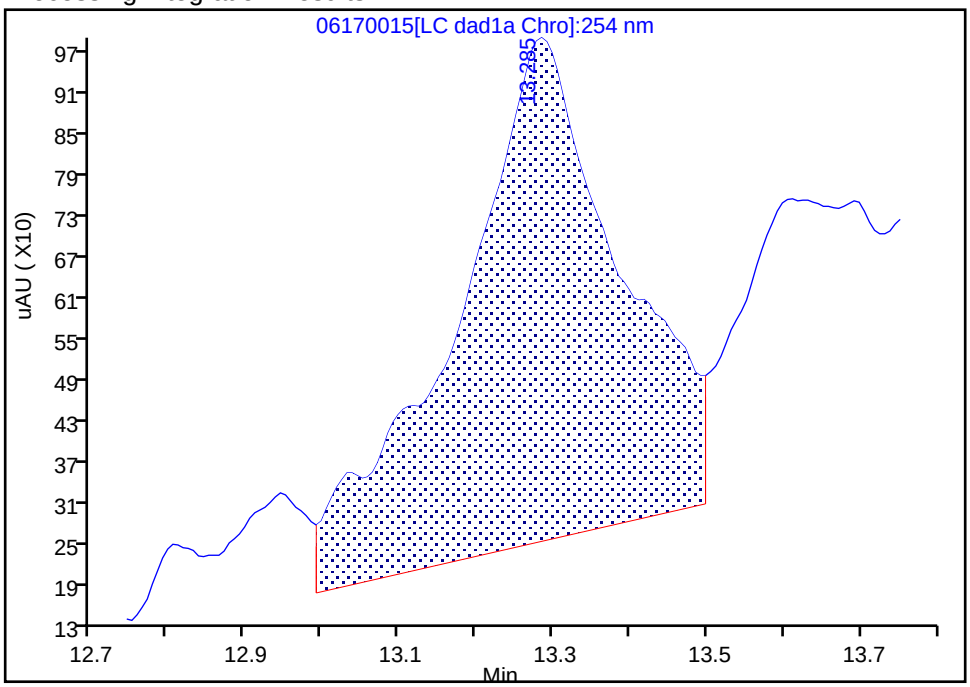
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170015.d				
Injection Date:	17-Jun-2020 22:35:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

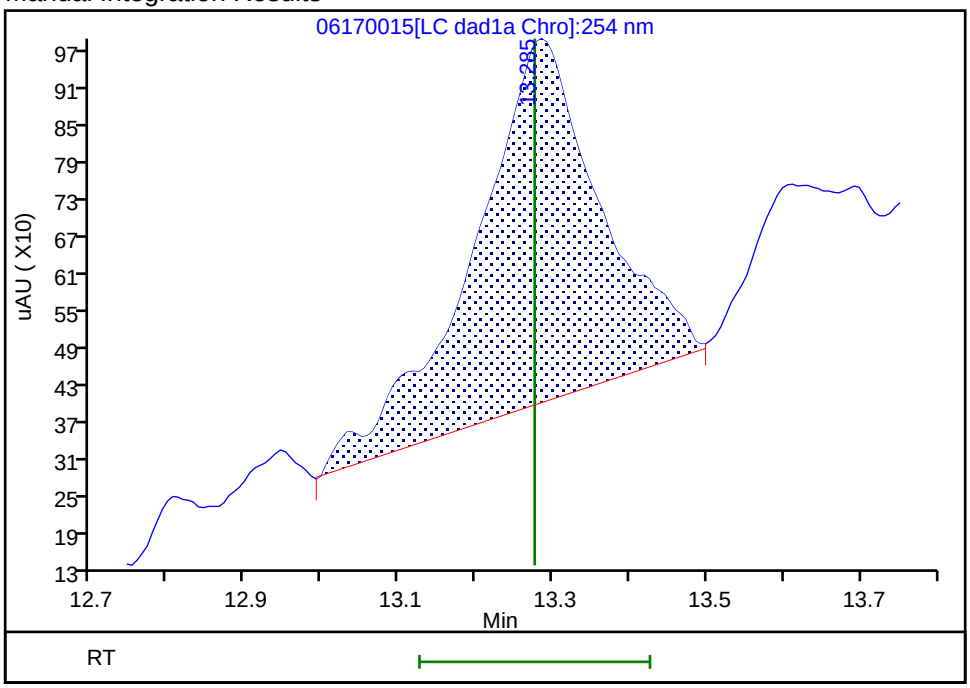
Processing Integration Results

RT: 13.29
Area: 10986
Amount: 0.032994
Amount Units: ug/ml



Manual Integration Results

RT: 13.29
Area: 6699
Amount: 0.017531
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 17:23:26
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

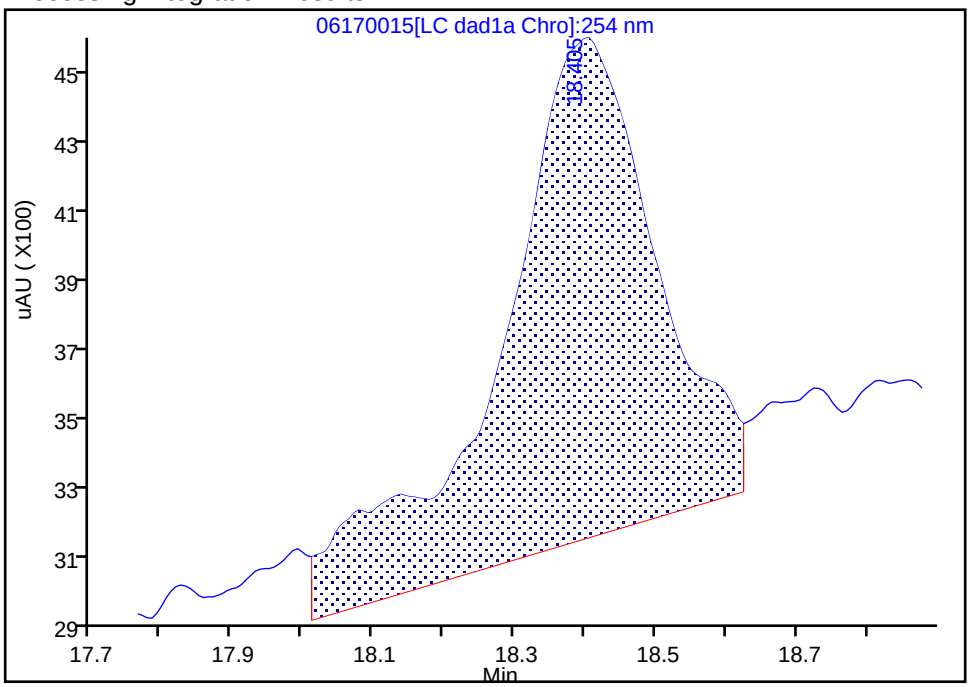
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170015.d				
Injection Date:	17-Jun-2020 22:35:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

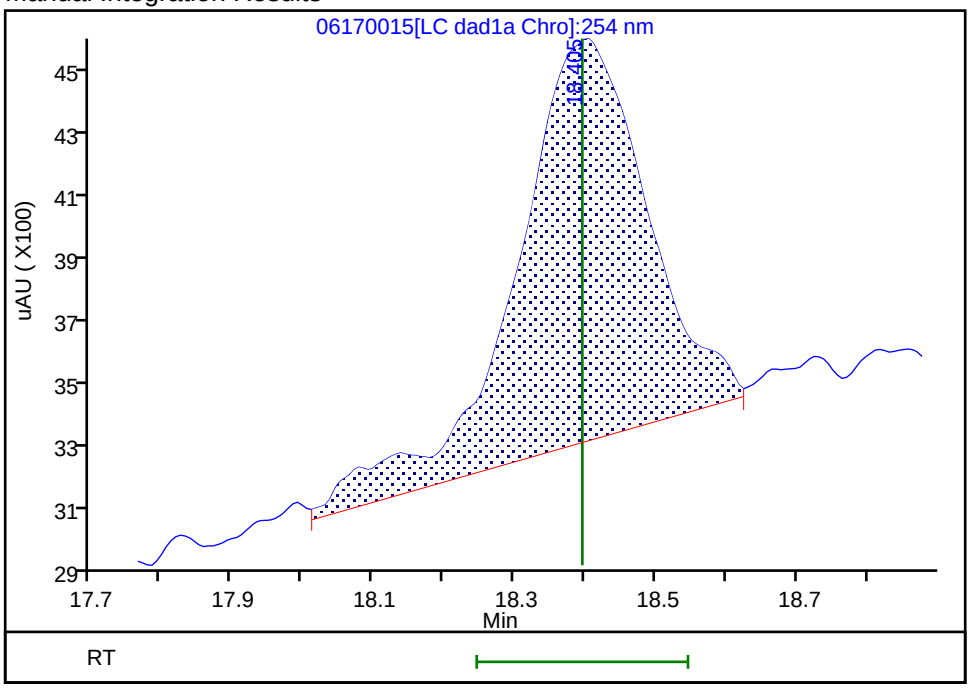
Processing Integration Results

RT: 18.41
Area: 21384
Amount: 0.045966
Amount Units: ug/ml



Manual Integration Results

RT: 18.41
Area: 15790
Amount: 0.033942
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 17:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

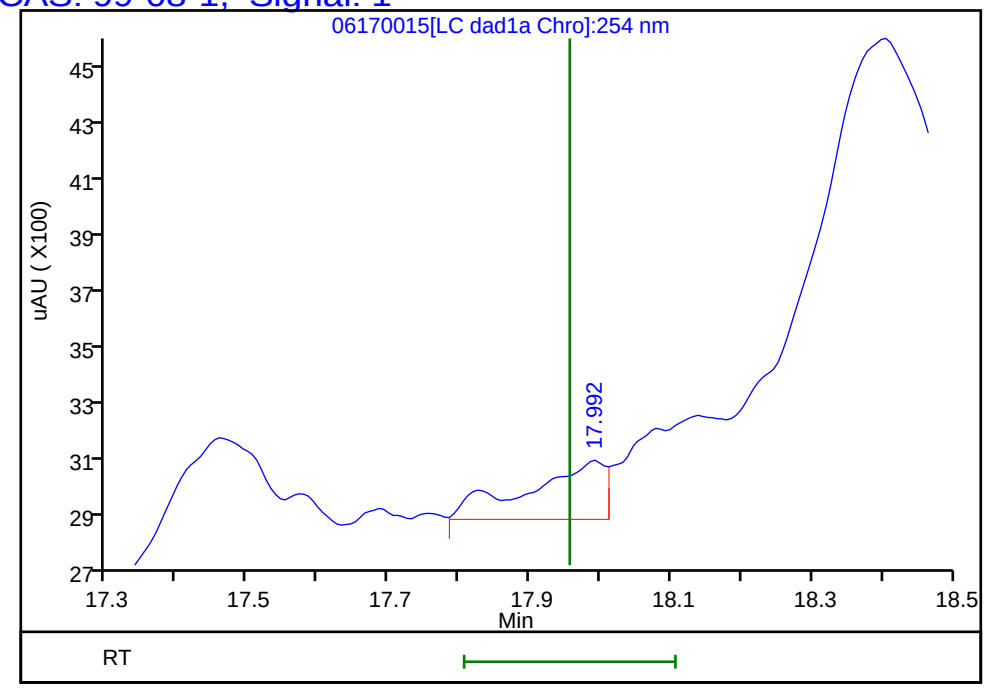
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170015.d				
Injection Date:	17-Jun-2020 22:35:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 17.99
Response: 1462
Amount: 0.004901



Reviewer: zhangji, 18-Jun-2020 17:23:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

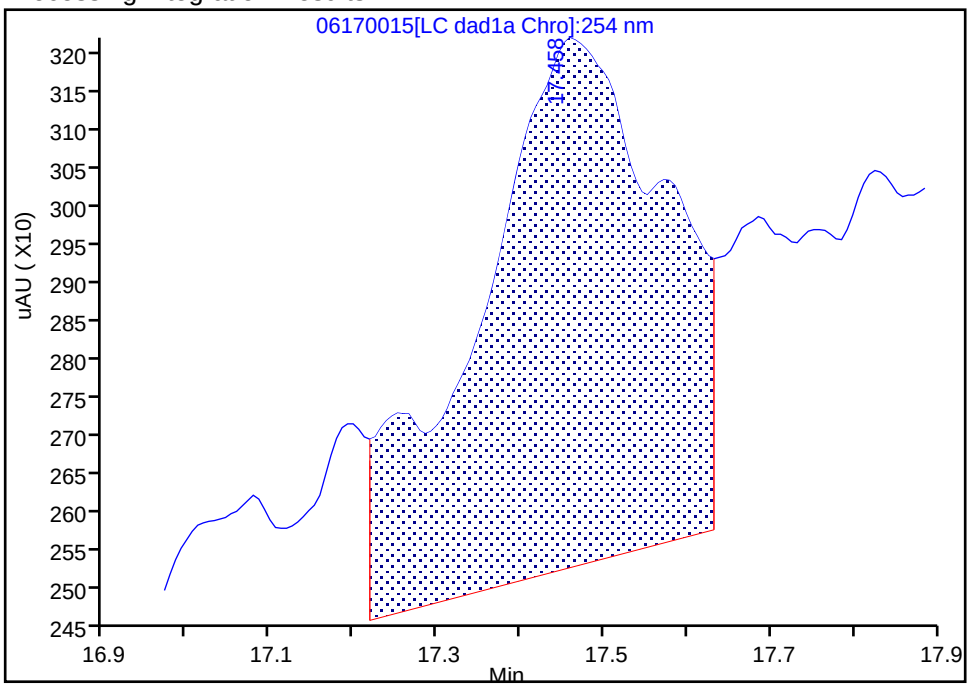
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170015.d				
Injection Date:	17-Jun-2020 22:35:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

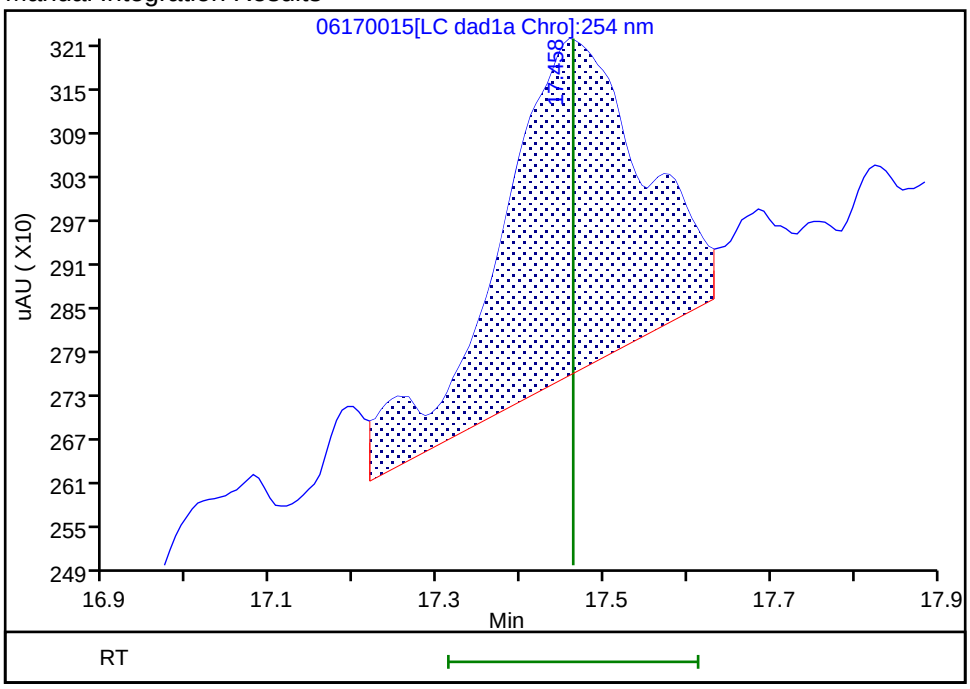
Processing Integration Results

RT: 17.46
Area: 10947
Amount: 0.031709
Amount Units: ug/ml



Manual Integration Results

RT: 17.46
Area: 5503
Amount: 0.015940
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 17:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

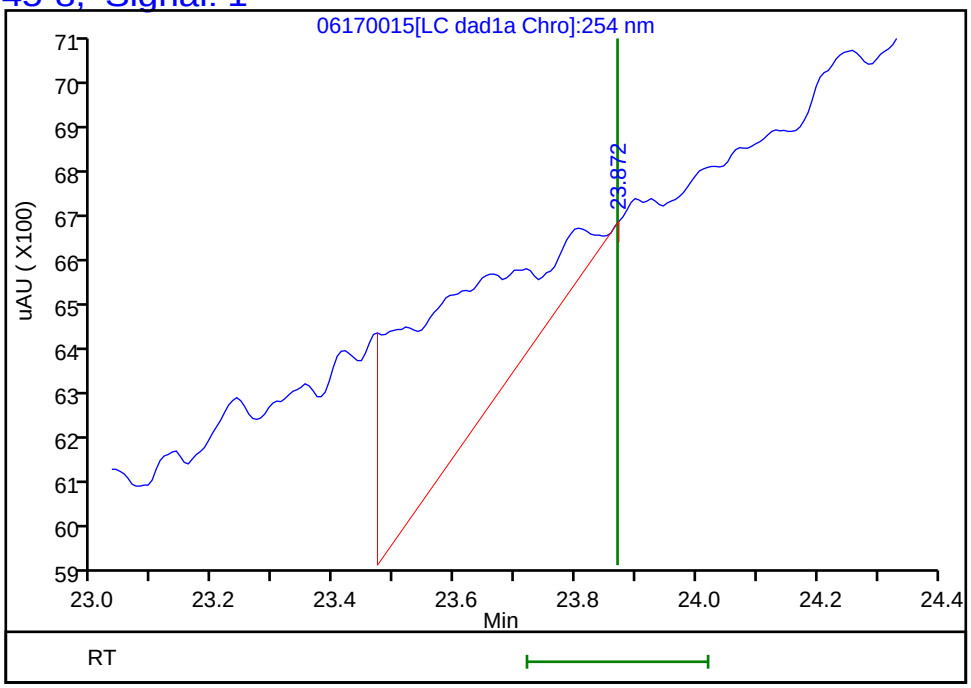
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170015.d				
Injection Date:	17-Jun-2020 22:35:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-2-A	Lab Sample ID:	280-137006-2		
Client ID:	OS501-DP03-25				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

22 Tetryl, CAS: 479-45-8, Signal: 1

RT: 23.87
Response: 5461
Amount: 0.014812



Reviewer: zhangji, 18-Jun-2020 17:23:18
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-35
Lab Sample ID: 280-137006-3
Matrix: Water
Lab File ID: 06120027.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:05
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 468.9(mL)
Date Analyzed: 06/12/2020 21:06
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.: 498537
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	11		0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029
606-20-2	2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U	0.22	0.21	0.091
99-08-1	3-Nitrotoluene	0.43	U M	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	0.43	U	0.44	0.43	0.11
2691-41-0	HMX	0.21	U	0.22	0.21	0.093
5755-27-1	MNX	0.43	U M	2.1	0.43	0.16
98-95-3	Nitrobenzene	0.21	U	0.22	0.21	0.097
121-82-4	RDX	0.21	J J1	0.22	0.21	0.055
479-45-8	Tetryl	0.11	U M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	83		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120027.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 21:06:27	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092367-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 16-Jun-2020 15:04:35

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.704			ND	
6 MNX	1		7.394			ND	U
7 RDX	1	7.792	7.797	-0.005	2323	0.0199	
$ 9 1,2-Dinitrobenzene	1	8.778	8.777	0.001	22957	0.1661	
10 1,3,5-Trinitrobenzene	1	8.952	8.957	-0.005	667623	2.90	E
11 1,3-Dinitrobenzene	1		9.617			ND	
12 Nitrobenzene	1		10.004			ND	
14 Tetryl	1		10.330			ND	U
16 2,4,6-Trinitrotoluene	1	11.285	11.310	-0.025	205639	1.01	
17 4-Amino-2,6-dinitrotoluene	1		11.484			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.784			ND	U
19 2,6-Dinitrotoluene	1		11.924			ND	
20 2,4-Dinitrotoluene	1		12.124			ND	
21 o-Nitrotoluene	1		12.977			ND	
22 p-Nitrotoluene	1		13.424			ND	
23 m-Nitrotoluene	1		14.030			ND	U

QC Flag Legend

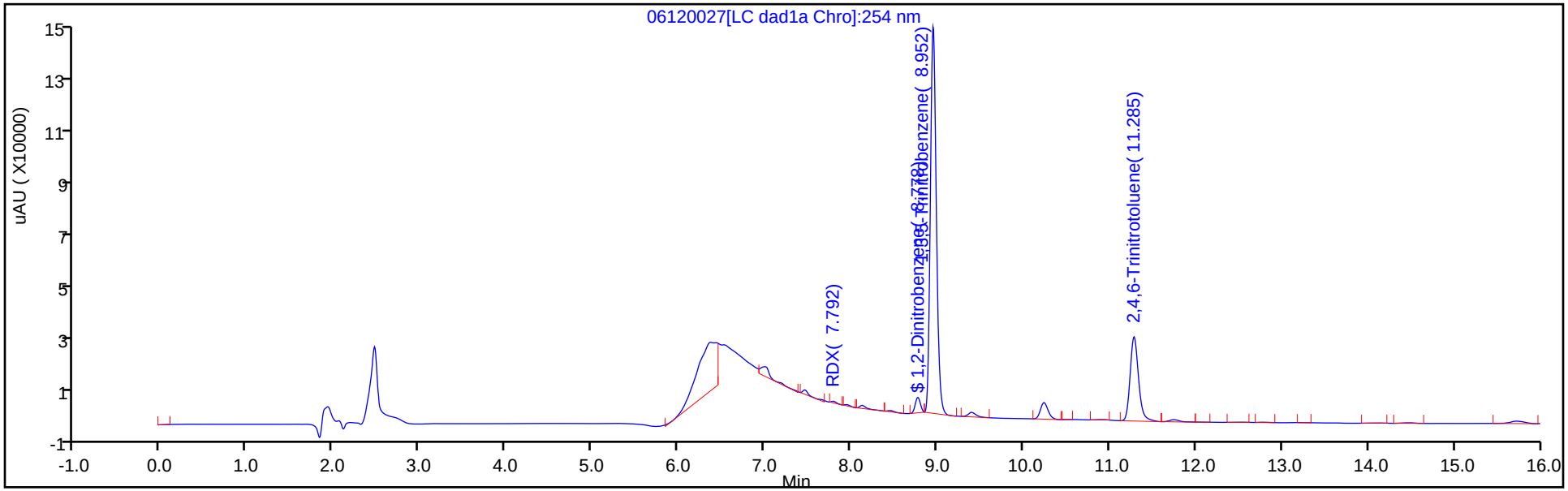
Processing Flags
E - Exceeded Maximum Amount
Review Flags
U - Marked Undetected

Report Date: 16-Jun-2020 20:56:08 Chrom Revision: 2.3 10-Jun-2020 22:46:48

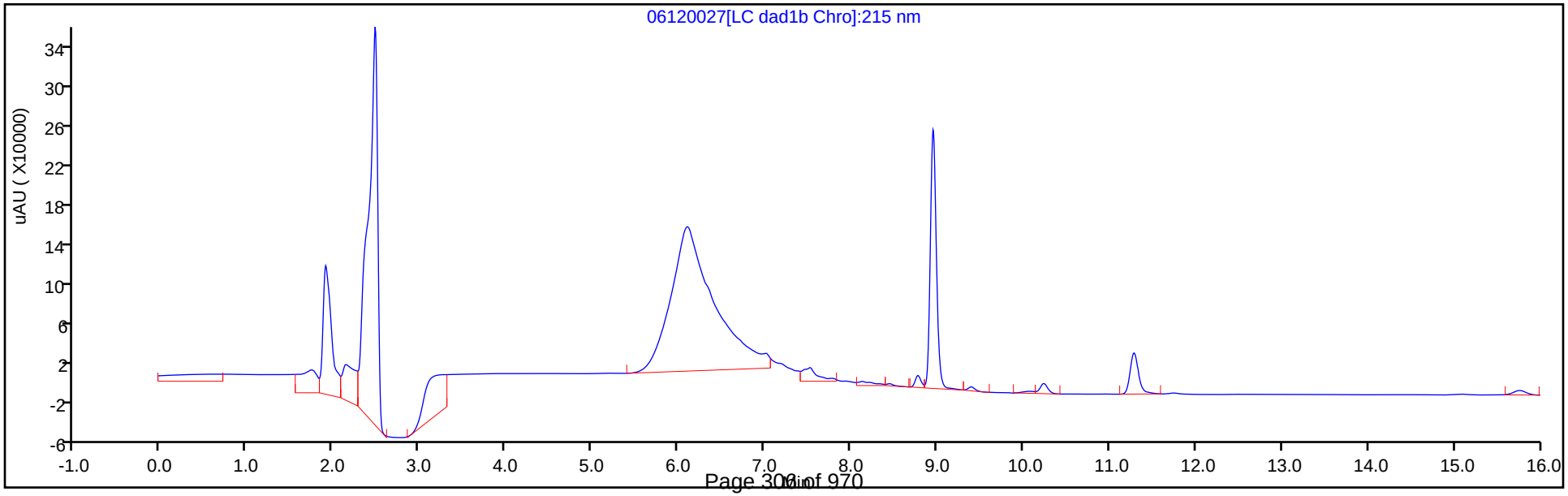
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120027.d				
Injection Date:	12-Jun-2020 21:06:27	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3	Worklist Smp#:	27
Client ID:	OS001-DP03-35				
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\20200612-92367.b\06120027.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 21:06:27	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092367-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 16-Jun-2020 15:04:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1661	83.05

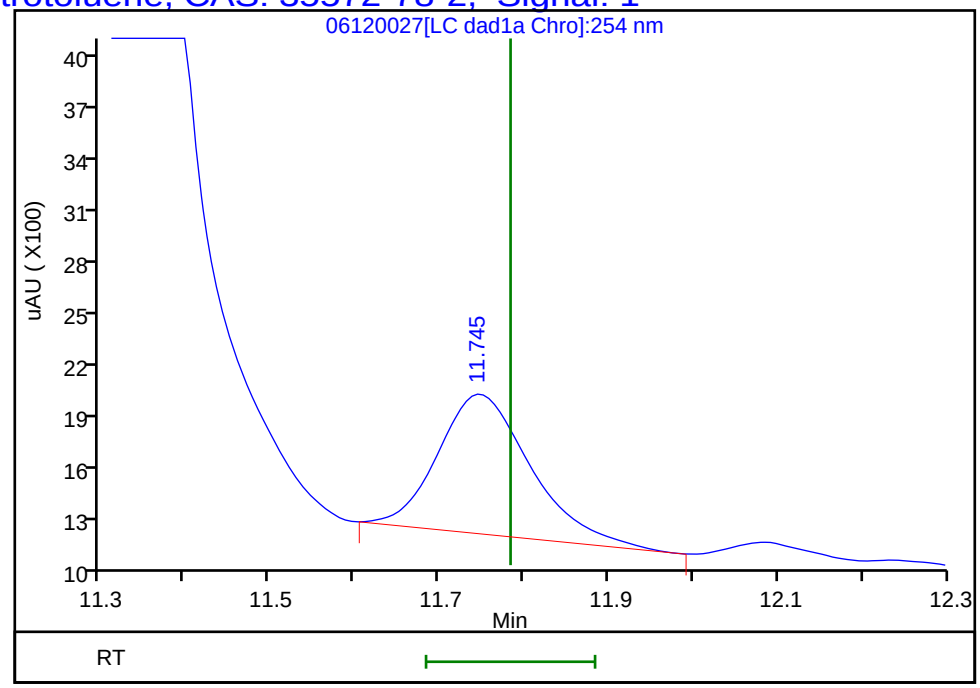
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120027.d				
Injection Date:	12-Jun-2020 21:06:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
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		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 11.74
Response: 6076
Amount: 0.029958



Reviewer: zhangji, 16-Jun-2020 15:04:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

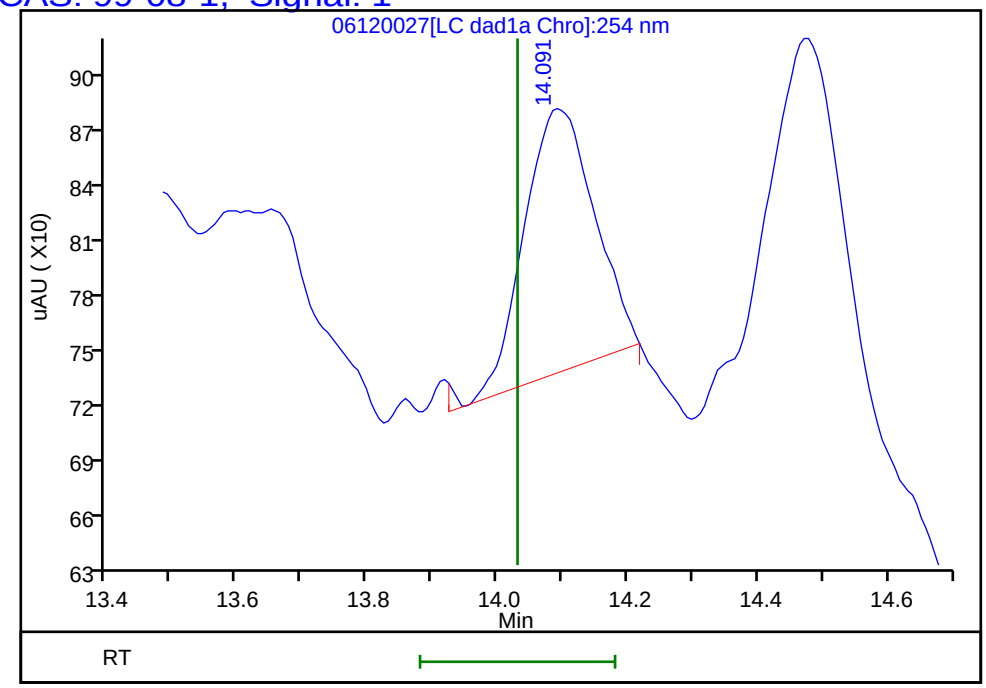
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120027.d				
Injection Date:	12-Jun-2020 21:06:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
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		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 14.09
Response: 1052
Amount: 0.007355



Reviewer: zhangji, 16-Jun-2020 15:04:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

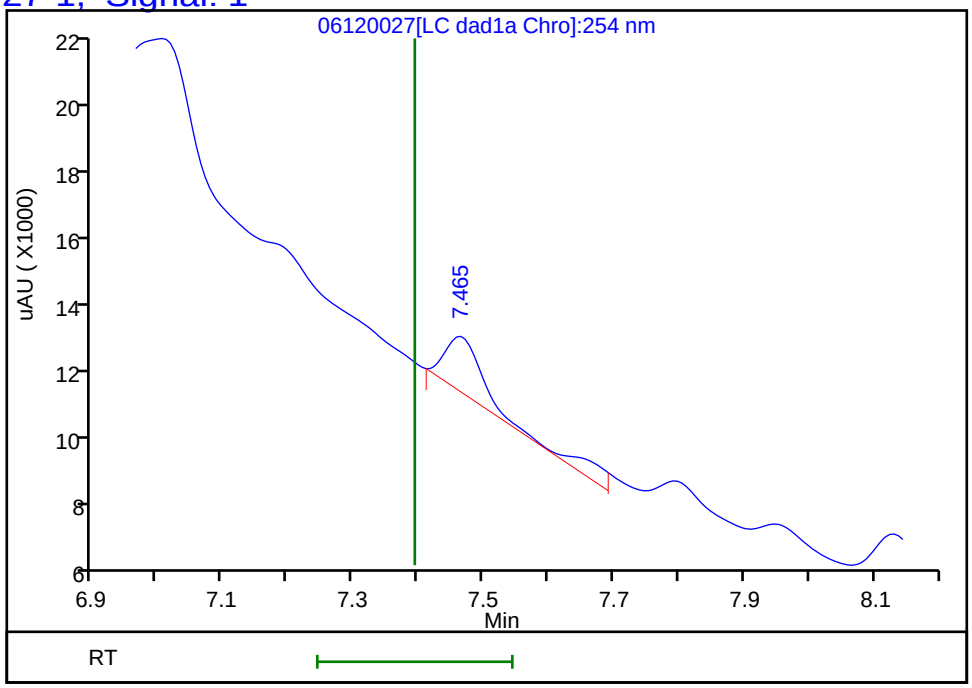
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120027.d				
Injection Date:	12-Jun-2020 21:06:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
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		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.46
Response: 7920
Amount: 0.049955



Reviewer: zhangji, 16-Jun-2020 15:04:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

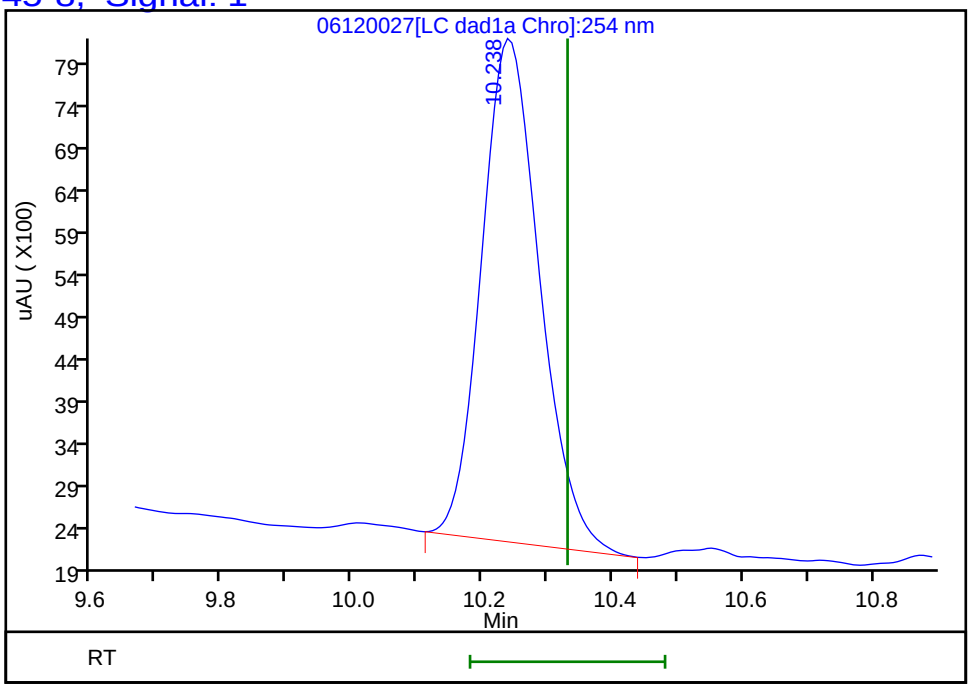
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120027.d				
Injection Date:	12-Jun-2020 21:06:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
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		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.24
Response: 36861
Amount: 0.208217



Reviewer: zhangji, 16-Jun-2020 15:04:35
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-35
Lab Sample ID: 280-137006-3
Matrix: Water
Lab File ID: 06170016.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:05
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 468.9(mL)
Date Analyzed: 06/17/2020 23:10
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.: 499146
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-82-4	*RDX*	*0.33*	*J1*	*0.22*	0.21	*0.055*

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\G2_LUNA\20200617-92518.b\06170016.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 23:10:05	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092518-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:23:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.150			ND	
7 MNX	1		7.876			ND	
8 RDX	1	9.368	9.369	-0.001	7653	0.0313	
9 Nitrobenzene	1		12.269			ND	
$ 10 1,2-Dinitrobenzene	1	13.262	13.276	-0.014	55572	0.1938	
12 1,3-Dinitrobenzene	1		15.809			ND	
14 o-Nitrotoluene	1		16.743			ND	U
15 p-Nitrotoluene	1		17.023			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.462	17.463	-0.001	6793	0.0197	
17 m-Nitrotoluene	1		17.956			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.375	18.396	-0.021	20802	0.0447	
19 1,3,5-Trinitrobenzene	1	19.122	19.136	-0.014	1314236	2.78	E
20 2,6-Dinitrotoluene	1		20.056			ND	
21 2,4-Dinitrotoluene	1		20.570			ND	U
22 Tetryl	1		23.870			ND	
23 2,4,6-Trinitrotoluene	1	24.882	24.883	-0.001	364374	0.8994	

QC Flag Legend

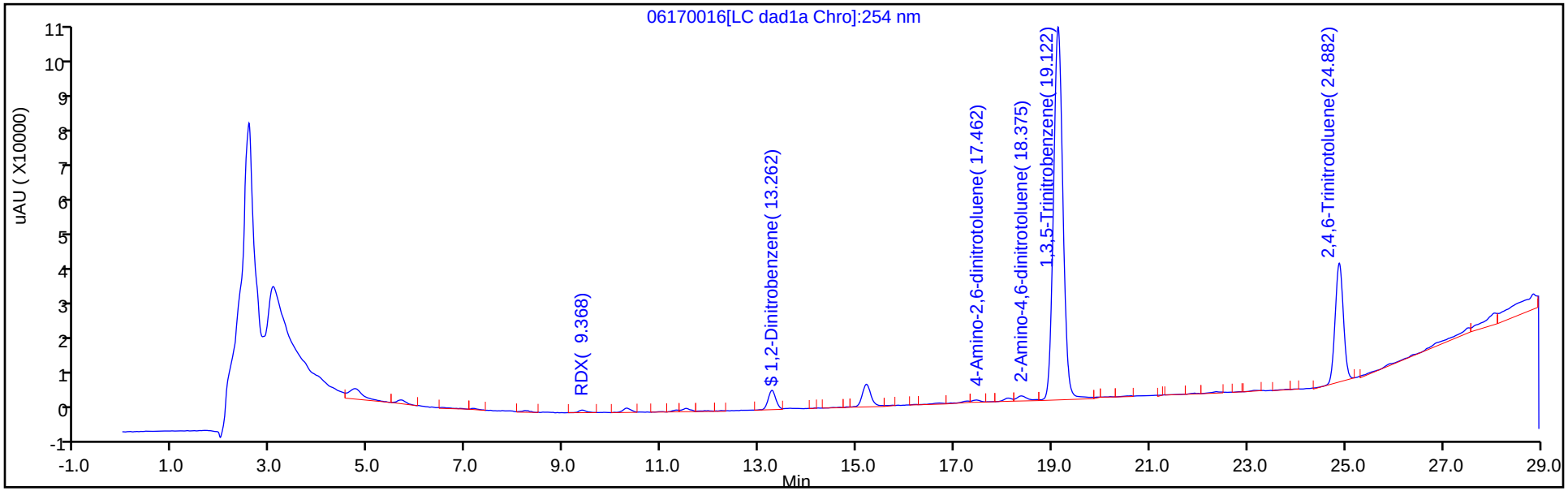
Processing Flags
E - Exceeded Maximum Amount
Review Flags
U - Marked Undetected

Report Date: 18-Jun-2020 17:36:26 Chrom Revision: 2.3 17-Jun-2020 19:07:08

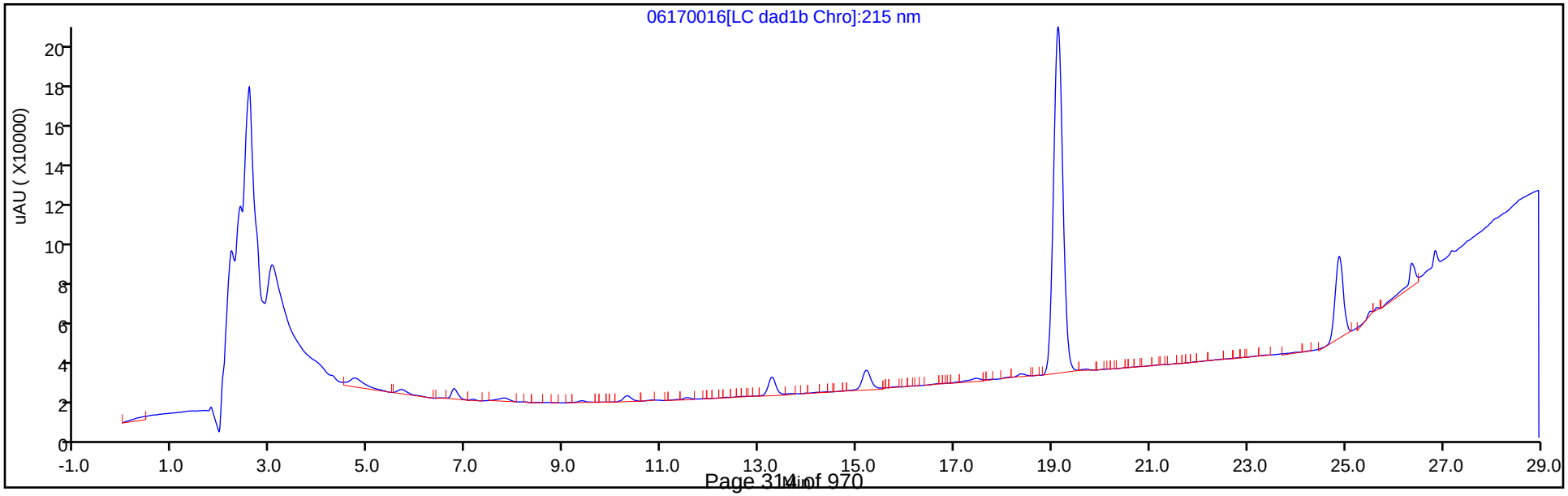
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170016.d				
Injection Date:	17-Jun-2020 23:10:05	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-B-3-A	Lab Sample ID:		Worklist Smp#:	16
Client ID:	OS001-DP03-35				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170016.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 23:10:05	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092518-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:23:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1938	96.91

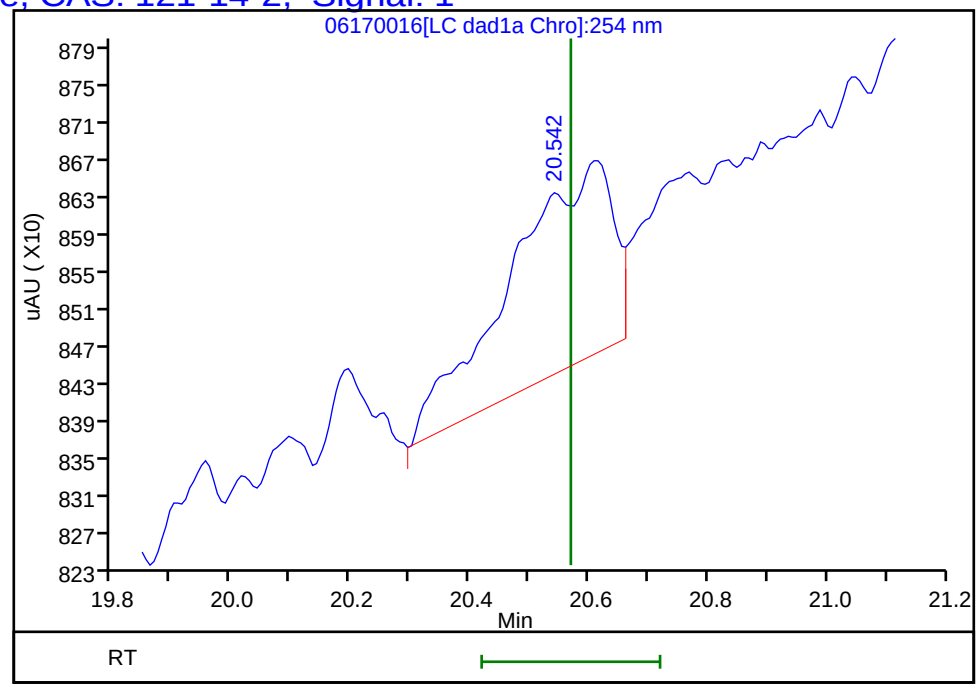
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170016.d				
Injection Date:	17-Jun-2020 23:10:05	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:			
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 20.54
Response: 2598
Amount: 0.004059



Reviewer: zhangji, 18-Jun-2020 17:23:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

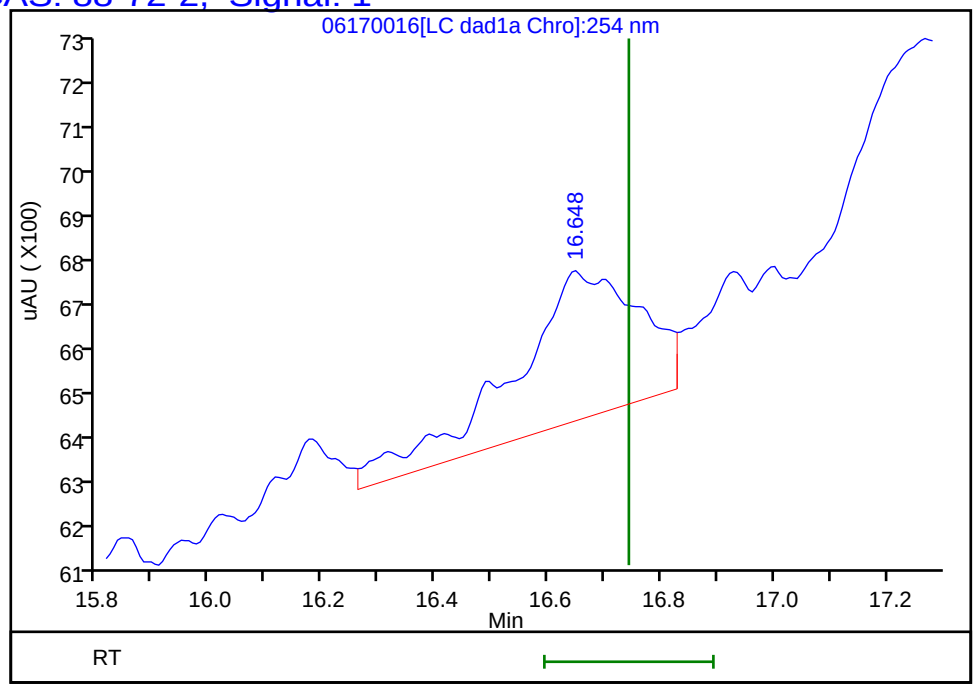
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170016.d				
Injection Date:	17-Jun-2020 23:10:05	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:			
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.65
Response: 5037
Amount: 0.018453



Reviewer: zhangji, 18-Jun-2020 17:23:45
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-35 DL
Lab Sample ID: 280-137006-3 DL
Matrix: Water
Lab File ID: 06170011.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:05
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 468.9(mL)
Date Analyzed: 06/17/2020 19:35
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 499164
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	31	D	2.2	2.1	0.90

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170011.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 19:35:15	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092523-011				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:45:56	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				
First Level Reviewer: zhangji		Date:	17-Jun-2020 20:02:58		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.725			ND	
6 MNX	1		7.400			ND	
7 RDX	1		7.792			ND	
$ 9 1,2-Dinitrobenzene	1	8.766	8.752	0.014	2813	0.0204	
10 1,3,5-Trinitrobenzene	1	8.946	8.932	0.014	67796	0.2944	
11 1,3-Dinitrobenzene	1		9.578			ND	
12 Nitrobenzene	1		9.952			ND	
14 Tetryl	1		10.258			ND	U
16 2,4,6-Trinitrotoluene	1	11.266	11.238	0.028	20473	0.1003	
17 4-Amino-2,6-dinitrotoluene	1		11.398			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.692			ND	
19 2,6-Dinitrotoluene	1		11.838			ND	
20 2,4-Dinitrotoluene	1		12.038			ND	
21 o-Nitrotoluene	1		12.865			ND	
22 p-Nitrotoluene	1		13.292			ND	
23 m-Nitrotoluene	1		13.885			ND	

QC Flag Legend

Review Flags

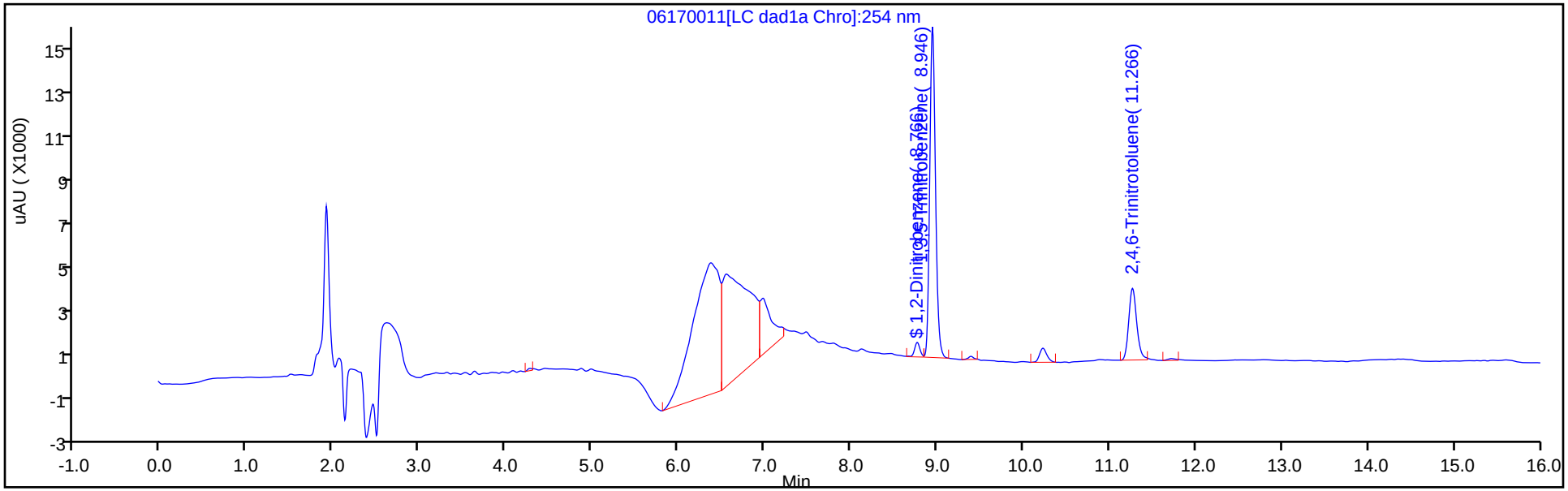
U - Marked Undetected

Report Date: 18-Jun-2020 20:45:57 Chrom Revision: 2.3 17-Jun-2020 19:07:08

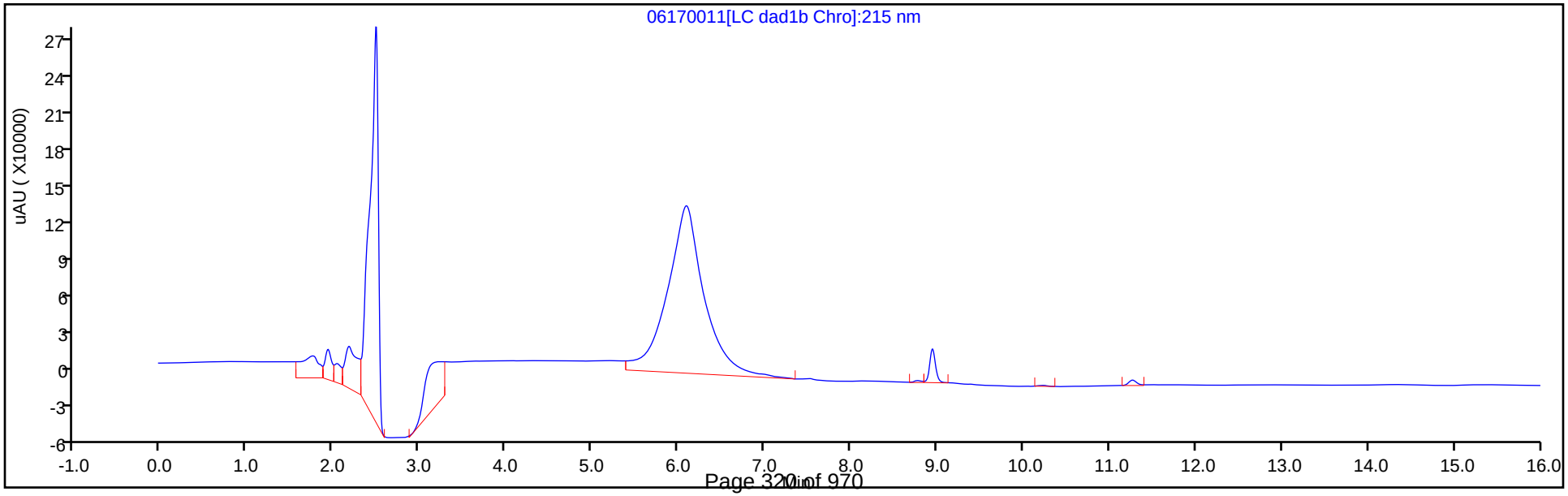
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170011.d				
Injection Date:	17-Jun-2020 19:35:15	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3	Worklist Smp#:	11
Client ID:	OS001-DP03-35				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	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\20200617-92523.b\06170011.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 19:35:15	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092523-011				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	18-Jun-2020 20:45:56	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1013	

First Level Reviewer: zhangji Date: 17-Jun-2020 20:02:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0204	10.18

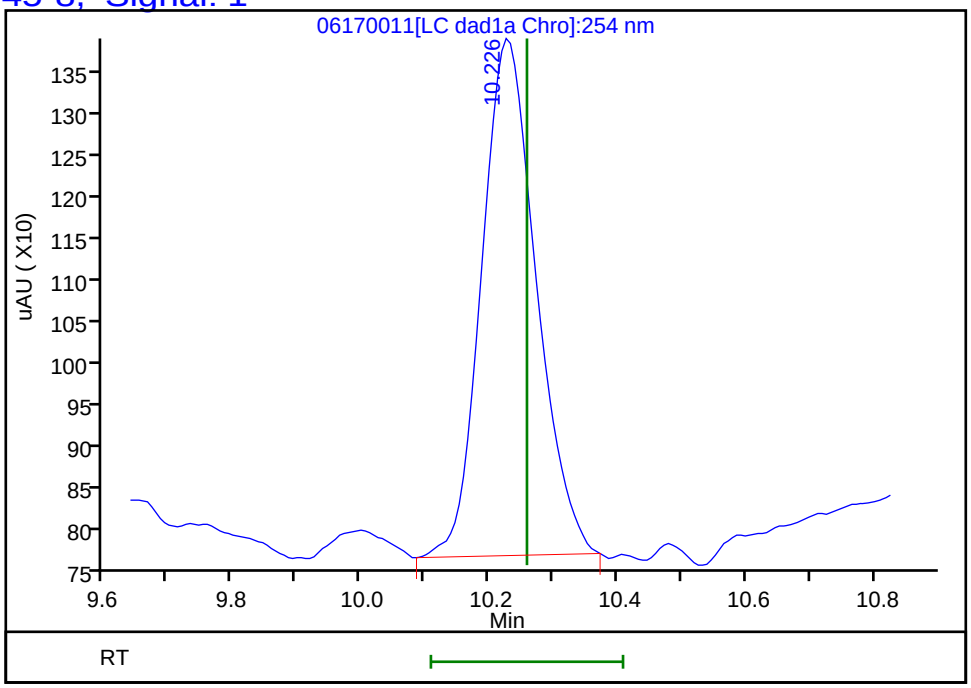
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170011.d				
Injection Date:	17-Jun-2020 19:35:15	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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: 10.23
Response: 3675
Amount: 0.020759



Reviewer: zhangji, 17-Jun-2020 20:02:58
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-35 DL
Lab Sample ID: 280-137006-3 DL
Matrix: Water
Lab File ID: 06170017.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:05
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 468.9(mL)
Date Analyzed: 06/17/2020 23:45
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 499146
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	89	*M*	83-119

FORM I 8330A

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170017.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 23:45:03	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092518-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:24:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.150			ND	
7 MNX	1		7.876			ND	
8 RDX	1		9.369			ND	U
9 Nitrobenzene	1		12.269			ND	
$ 10 1,2-Dinitrobenzene	1	13.273	13.276	-0.003	6753	0.0177	M
12 1,3-Dinitrobenzene	1		15.809			ND	
14 o-Nitrotoluene	1		16.743			ND	
15 p-Nitrotoluene	1		17.023			ND	
16 4-Amino-2,6-dinitrotoluene	1		17.463			ND	U
17 m-Nitrotoluene	1		17.956			ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.396			ND	U
19 1,3,5-Trinitrobenzene	1	19.133	19.136	-0.003	136932	0.2898	M
20 2,6-Dinitrotoluene	1		20.056			ND	
21 2,4-Dinitrotoluene	1		20.570			ND	
22 Tetryl	1		23.870			ND	
23 2,4,6-Trinitrotoluene	1	24.880	24.883	-0.003	49954	0.1165	M

QC Flag Legend

Review Flags

M - Manually Integrated

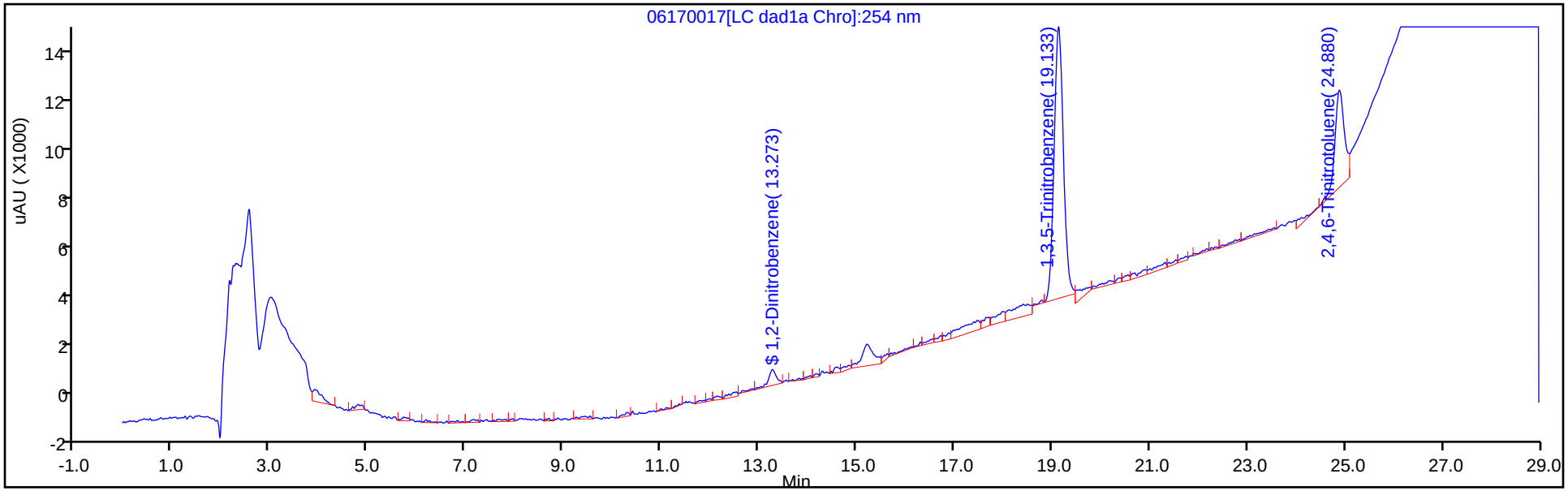
U - Marked Undetected

Report Date: 18-Jun-2020 17:36:25 Chrom Revision: 2.3 17-Jun-2020 19:07:08

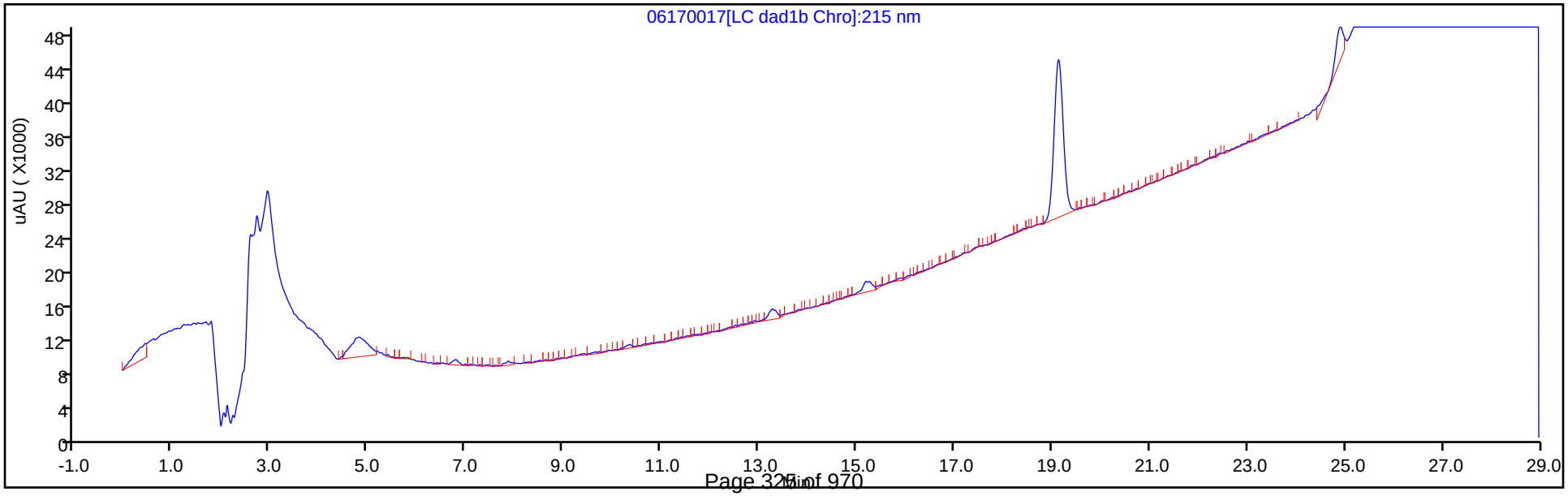
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3	Worklist Smp#:	17
Client ID:	OS001-DP03-35				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	17
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170017.D				
Lims ID:	280-137006-B-3-A				
Client ID:	OS001-DP03-35				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 23:45:03	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-3-A				
Misc. Info.:	280-0092518-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:24:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0177	8.86

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

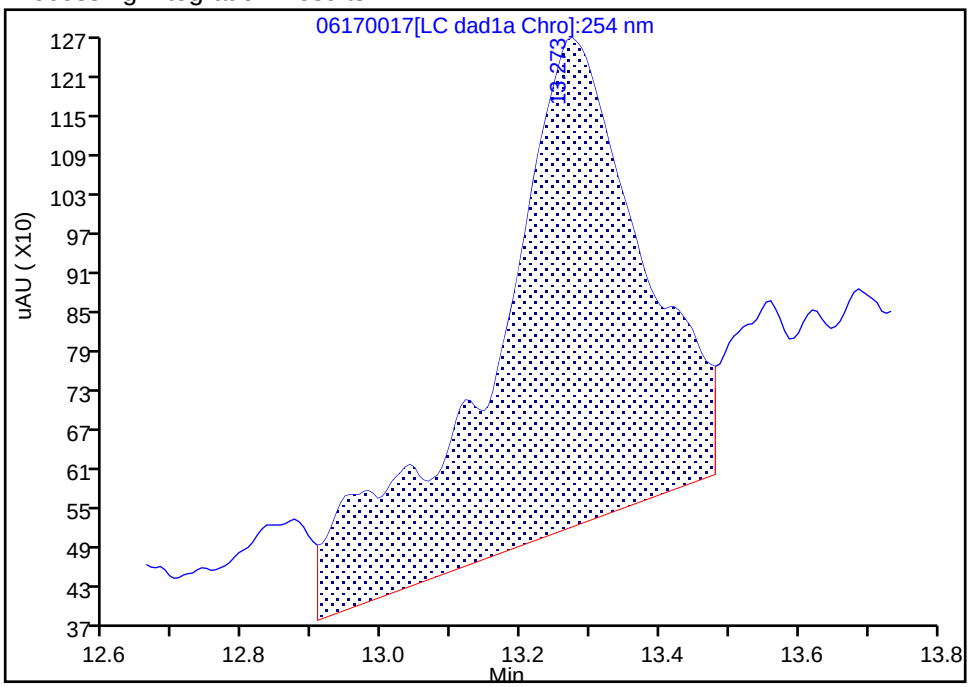
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

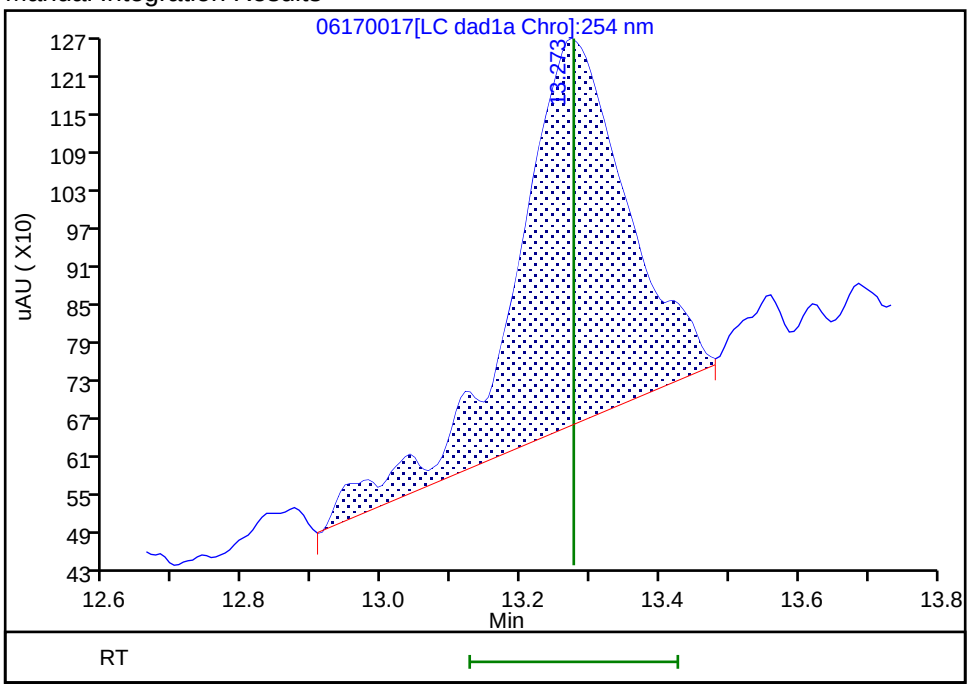
Processing Integration Results

RT: 13.27
Area: 11397
Amount: 0.034477
Amount Units: ug/ml



Manual Integration Results

RT: 13.27
Area: 6753
Amount: 0.017725
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 17:24:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

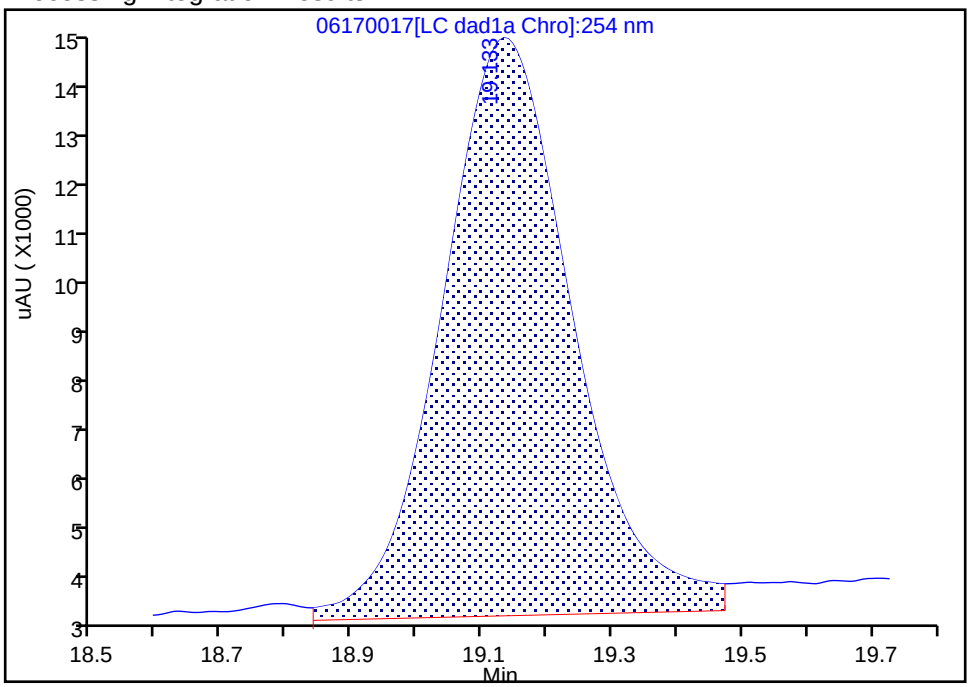
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

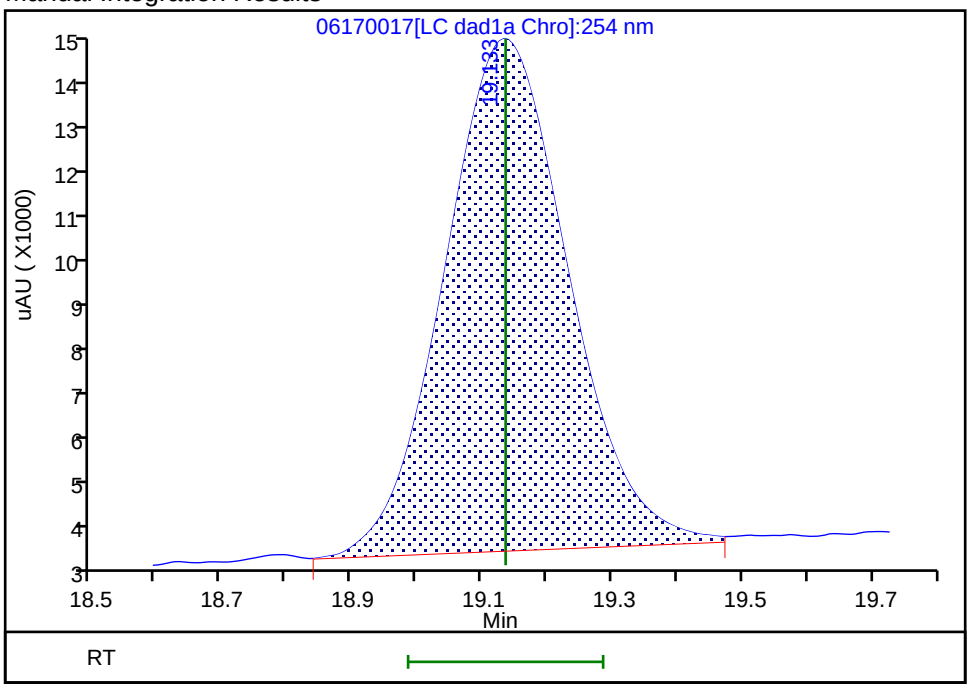
Processing Integration Results

RT: 19.13
Area: 148313
Amount: 0.313923
Amount Units: ug/ml



Manual Integration Results

RT: 19.13
Area: 136932
Amount: 0.289833
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 17:24:28

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

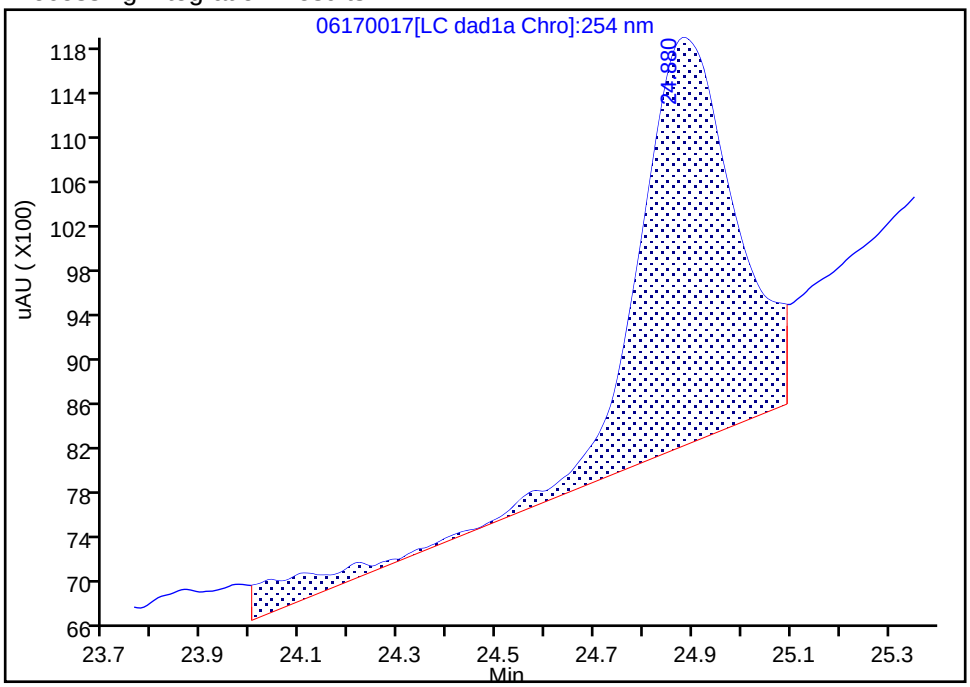
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

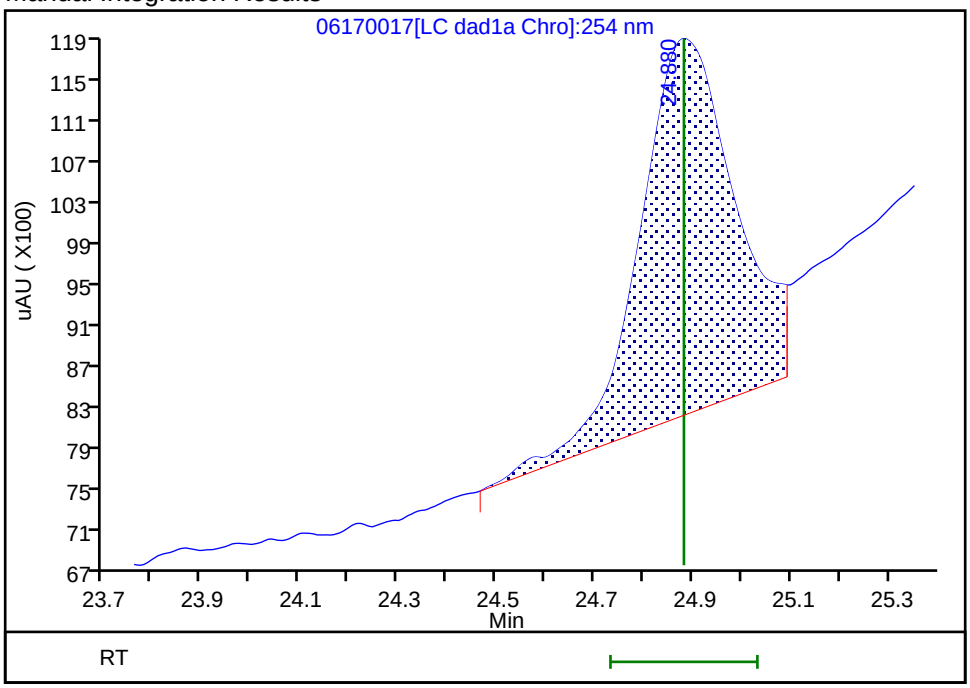
Processing Integration Results

RT: 24.88
Area: 53241
Amount: 0.124705
Amount Units: ug/ml



Manual Integration Results

RT: 24.88
Area: 49954
Amount: 0.116521
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 17:24:33

Audit Action: Split an Integrated Peak Audit Reason: Baseline

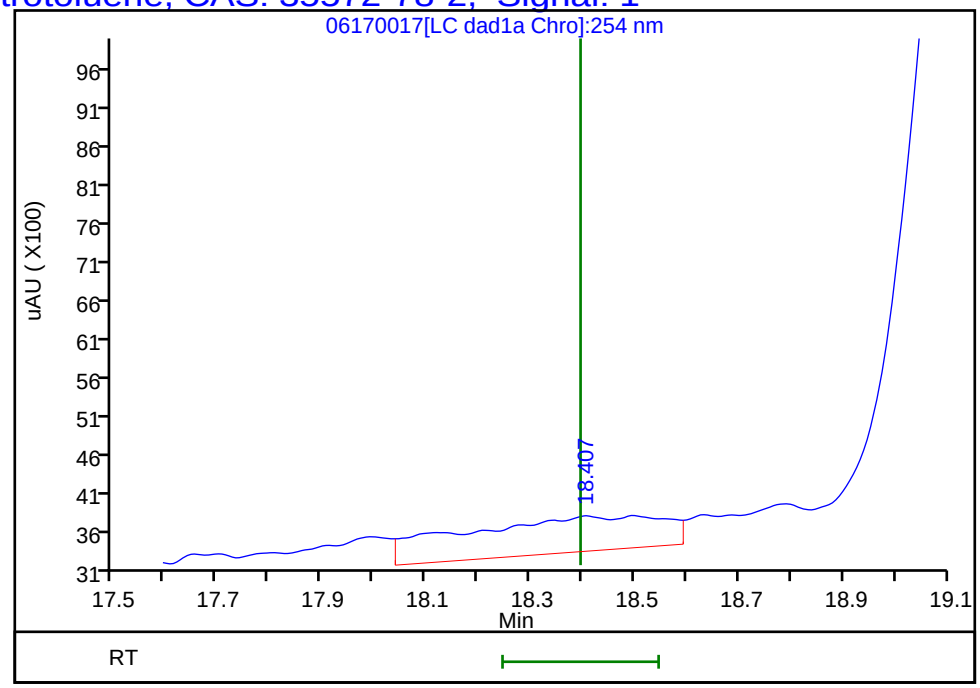
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 18.41
Response: 12780
Amount: 0.027471



Reviewer: zhangji, 18-Jun-2020 17:24:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

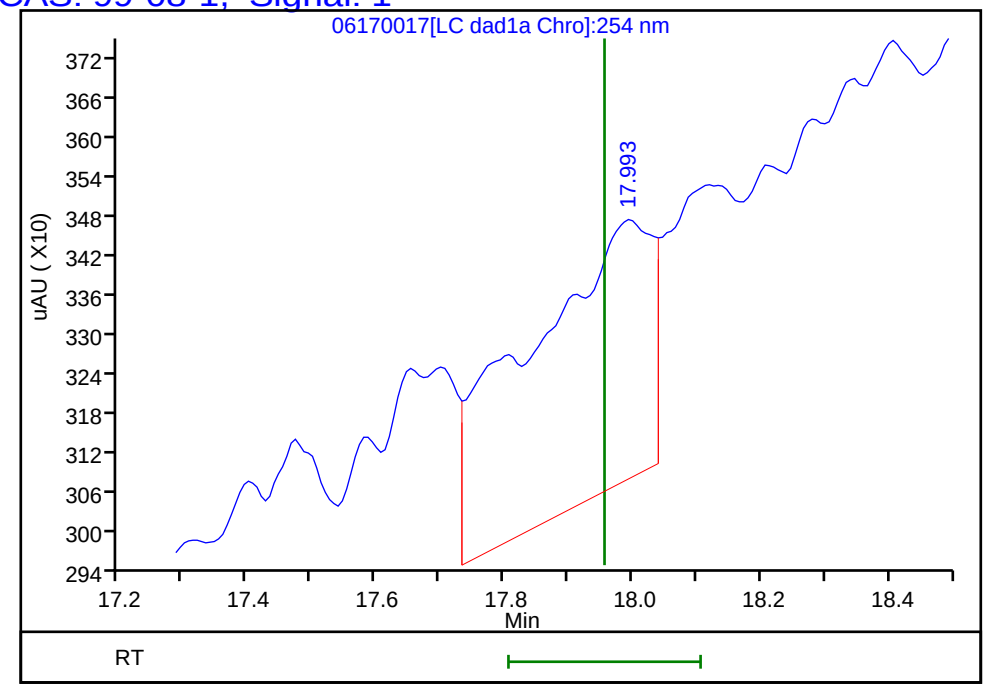
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 17.99
Response: 5733
Amount: 0.019217



Reviewer: zhangji, 18-Jun-2020 17:24:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

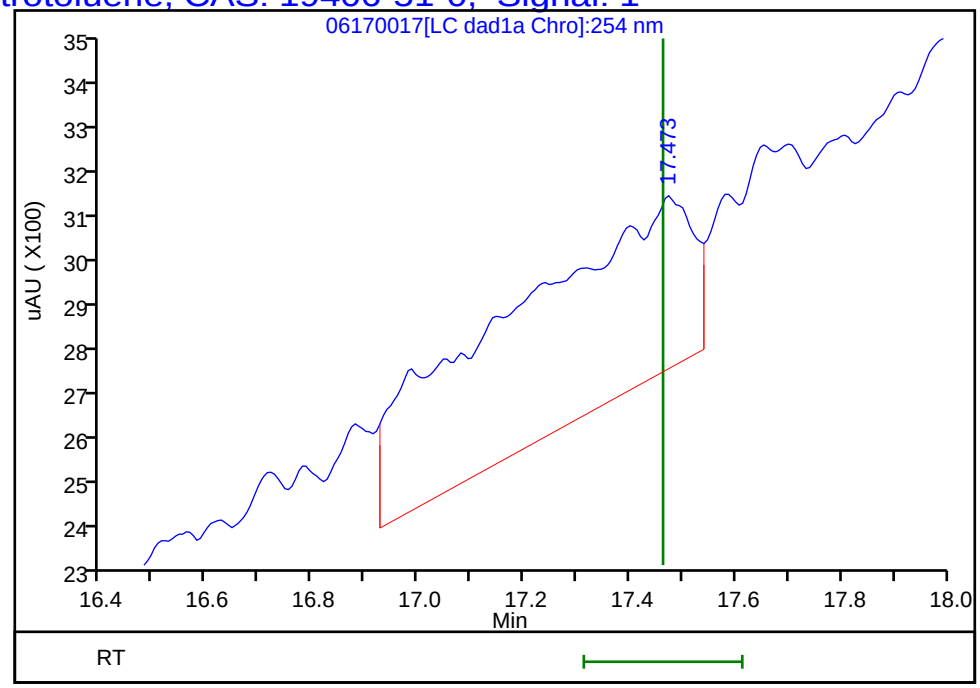
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 17.47
Response: 11038
Amount: 0.031972



Reviewer: zhangji, 18-Jun-2020 17:24:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

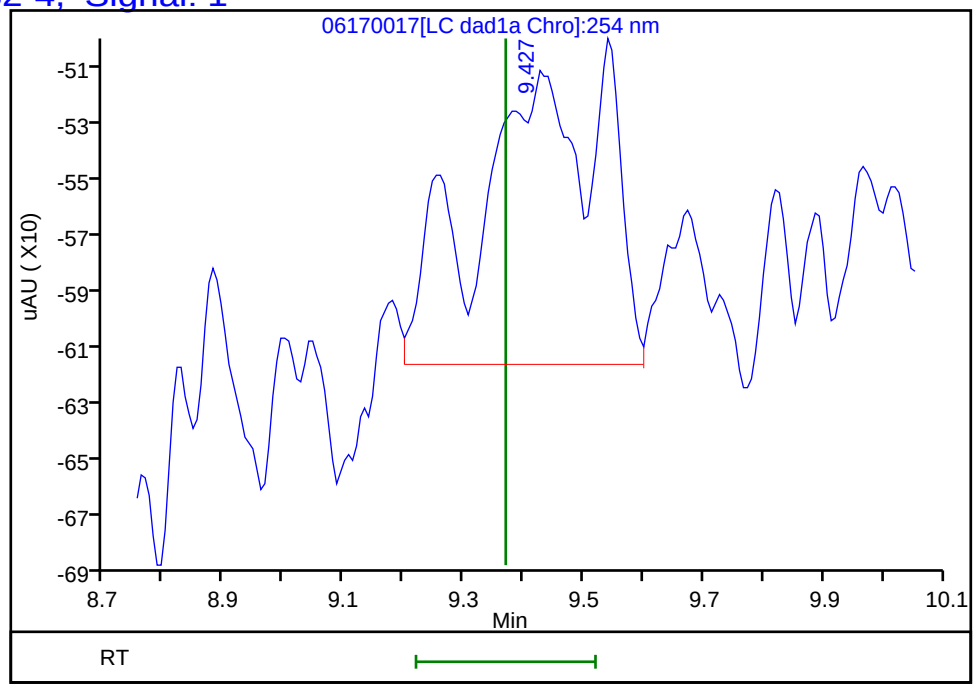
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170017.d				
Injection Date:	17-Jun-2020 23:45:03	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-3-A	Lab Sample ID:	280-137006-3		
Client ID:	OS001-DP03-35				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4, Signal: 1

RT: 9.43
Response: 1485
Amount: 0.006077



Reviewer: zhangji, 18-Jun-2020 17:24:36
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45
Lab Sample ID: 280-137006-4
Matrix: Water
Lab File ID: 06110036.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 469.6(mL)
Date Analyzed: 06/12/2020 02:05
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.: 498360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	2.2	M	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029
606-20-2	2,6-Dinitrotoluene	0.085	U M	0.11	0.085	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U	0.22	0.21	0.091
99-08-1	3-Nitrotoluene	0.43	U	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061
2691-41-0	HMX	0.21	U	0.22	0.21	0.093
5755-27-1	MNX	0.43	U M	2.1	0.43	0.16
98-95-3	Nitrobenzene	0.21	U	0.22	0.21	0.097
121-82-4	RDX	0.17	J M	0.22	0.21	0.055

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\20200611-92324.b\06110036.D
Lims ID: 280-137006-A-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 12-Jun-2020 02:05:38 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-A-4-A
Misc. Info.: 280-0092324-036
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji Date: 12-Jun-2020 11:15:59

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	1 2,6-diamino-4-nitrotoluene	1		6.574			ND	U
	2 TNX	1		6.627			ND	
	3 HMX	1		6.696			ND	
	4 2,4-diamino-6-nitrotoluene	1		6.760			ND	
	5 DNX	1	7.009	6.954	0.055	16448	0.1076	M
	6 MNX	1	7.449	7.407	0.042	1988	0.0125	M
	7 RDX	1	7.783	7.776	0.007	1808	0.0155	M
	8 2,4,6-Trinitrophenol	1		8.069			ND	
$	9 1,2-Dinitrobenzene	1	8.776	8.743	0.033	25961	0.1878	
	10 1,3,5-Trinitrobenzene	1	8.956	8.916	0.040	875360	3.80	E
	11 1,3-Dinitrobenzene	1		9.569			ND	
	12 Nitrobenzene	1		9.949			ND	
	14 Tetryl	1	10.243	10.256	-0.013	109227	0.6170	
	13 3,5-Dinitroaniline	1		10.273			ND	
	15 Nitroglycerin	2		10.762			ND	
	16 2,4,6-Trinitrotoluene	1	11.283	11.222	0.061	41471	0.2033	M
	17 4-Amino-2,6-dinitrotoluene	1		11.376			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.662			ND	
	19 2,6-Dinitrotoluene	1		11.809			ND	U
	20 2,4-Dinitrotoluene	1		12.009			ND	
	21 o-Nitrotoluene	1		12.842			ND	
	22 p-Nitrotoluene	1	13.276	13.276	0.000	2333	0.0206	M
	23 m-Nitrotoluene	1		13.862			ND	
	24 PETN	2		14.969			ND	
	25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

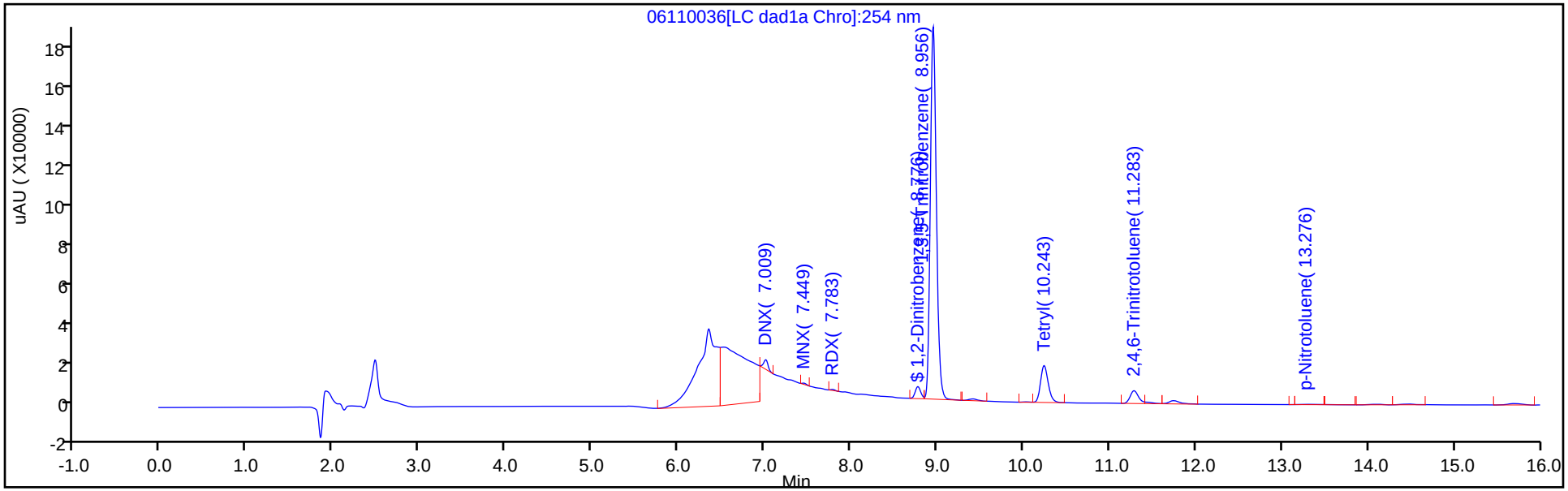
U - Marked Undetected

Report Date: 12-Jun-2020 12:39:48 Chrom Revision: 2.3 10-Jun-2020 22:46:48

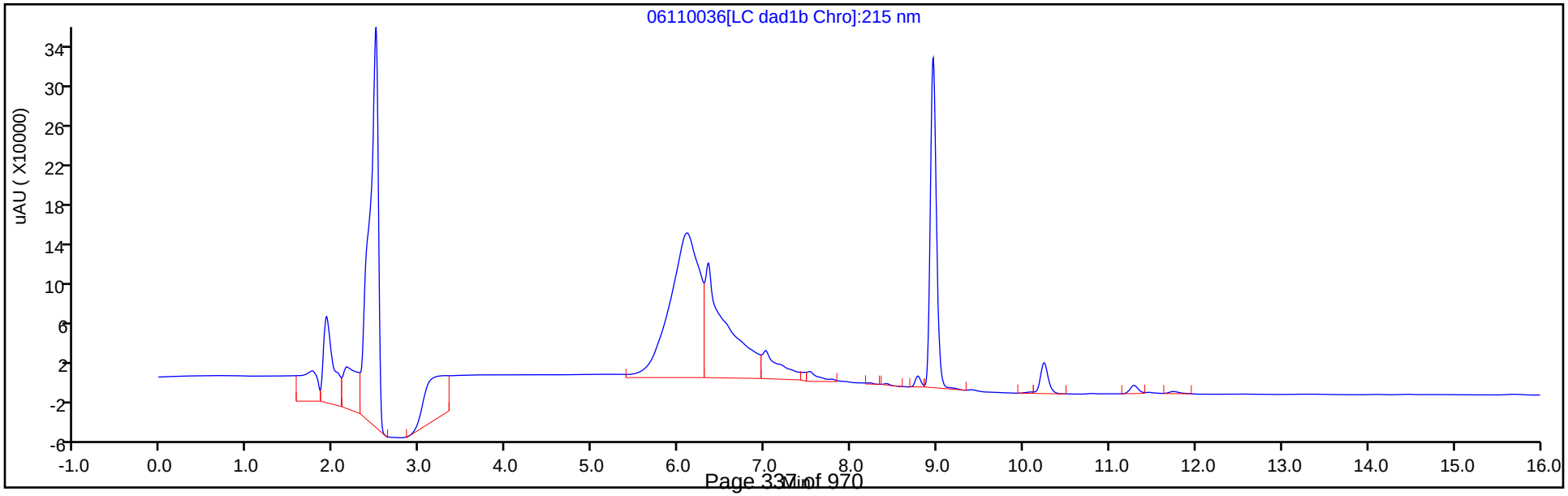
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110036.d				
Injection Date:	12-Jun-2020 02:05:38	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4	Worklist Smp#:	36
Client ID:	OS001-DP03-45				
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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110036.D				
Lims ID:	280-137006-A-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 02:05:38	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-4-A				
Misc. Info.:	280-0092324-036				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1034	

First Level Reviewer: zhangji Date: 12-Jun-2020 11:15:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1878	93.92

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

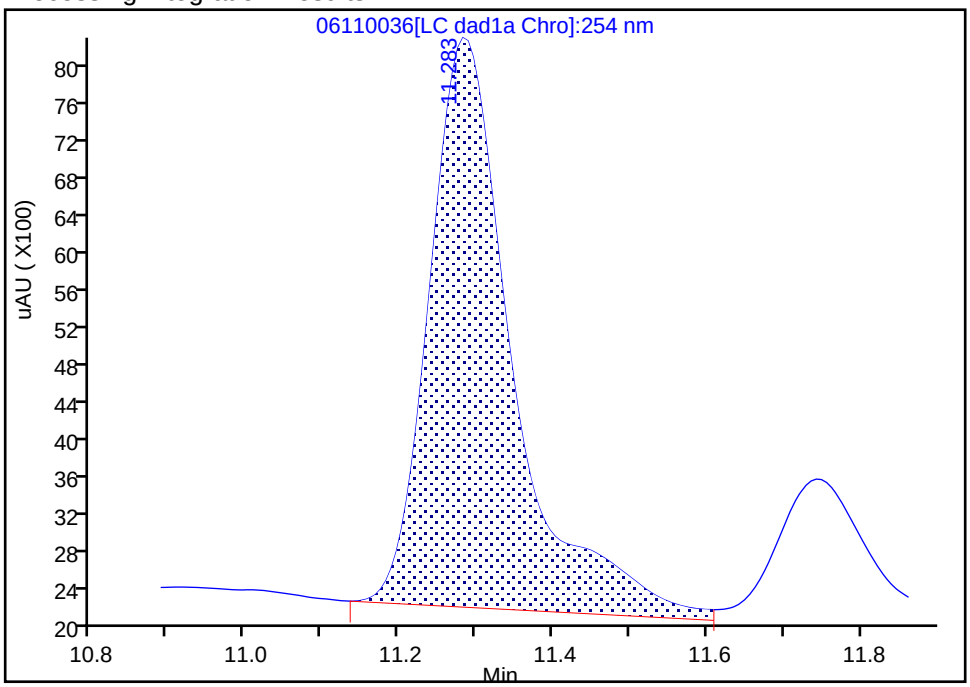
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110036.d				
Injection Date:	12-Jun-2020 02:05:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

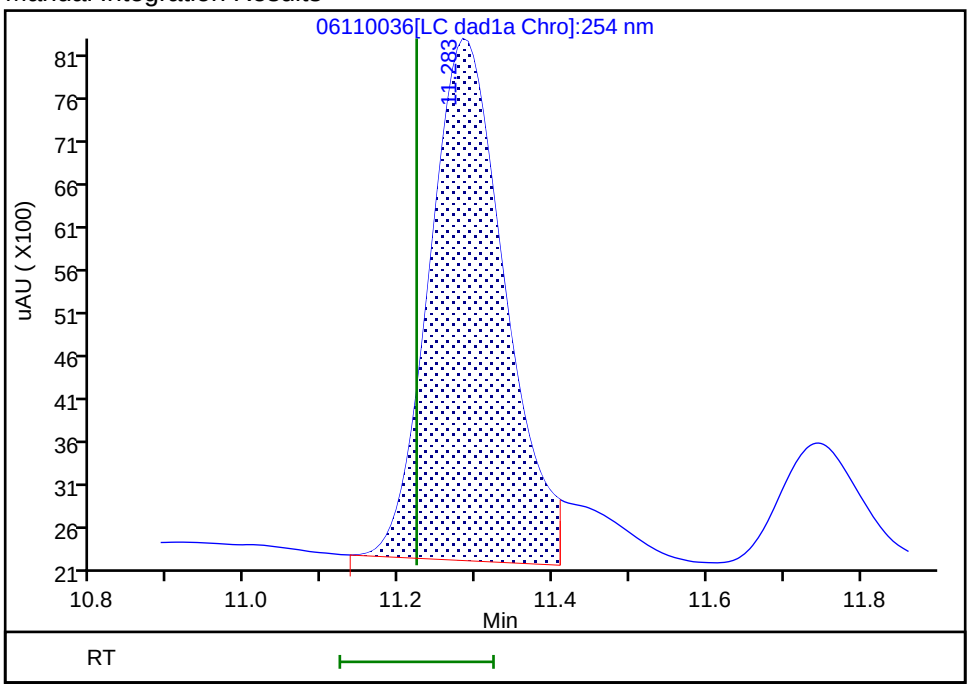
Processing Integration Results

RT: 11.28
Area: 46219
Amount: 0.226529
Amount Units: ug/mL



Manual Integration Results

RT: 11.28
Area: 41471
Amount: 0.203258
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:15:32

Audit Action: Split an Integrated Peak Audit Reason: Baseline

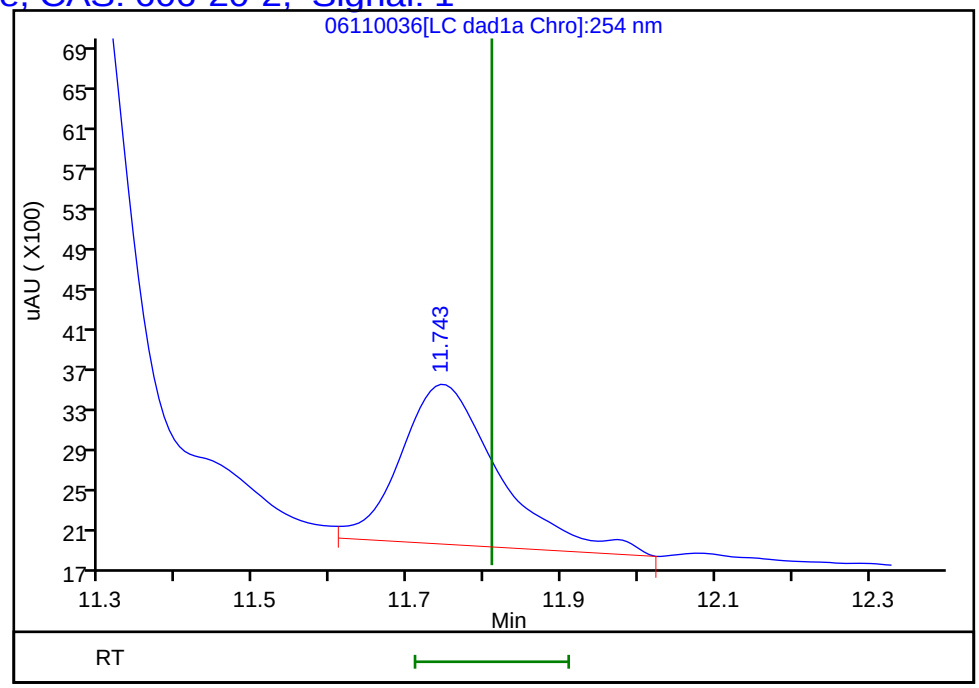
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110036.d				
Injection Date:	12-Jun-2020 02:05:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	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		

19 2,6-Dinitrotoluene, CAS: 606-20-2, Signal: 1

RT: 11.74
Response: 14092
Amount: 0.094291



Reviewer: zhangji, 12-Jun-2020 11:15:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

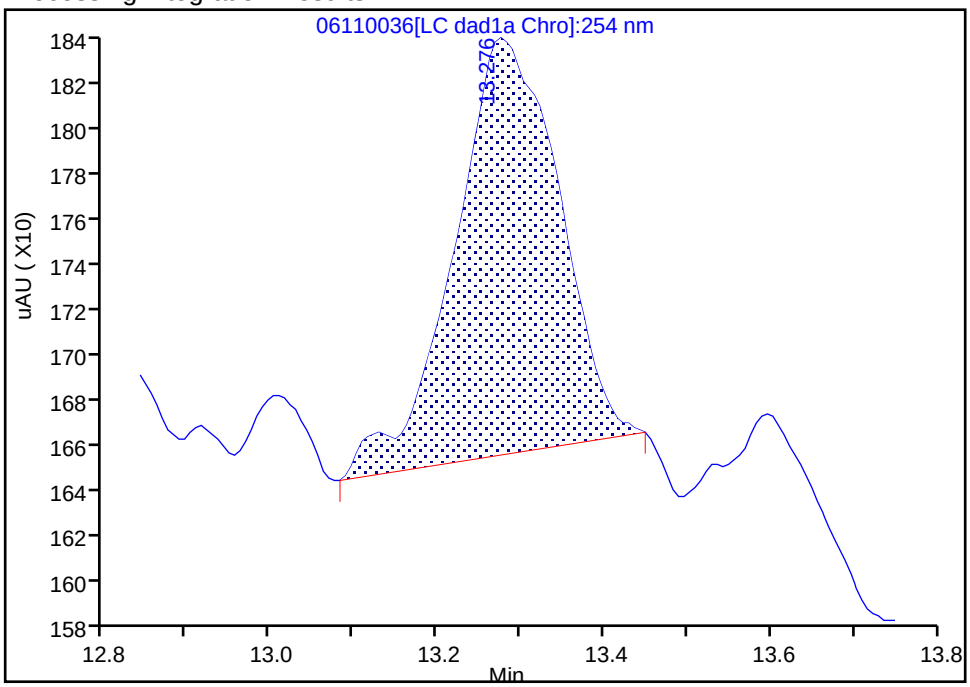
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110036.d				
Injection Date:	12-Jun-2020 02:05:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

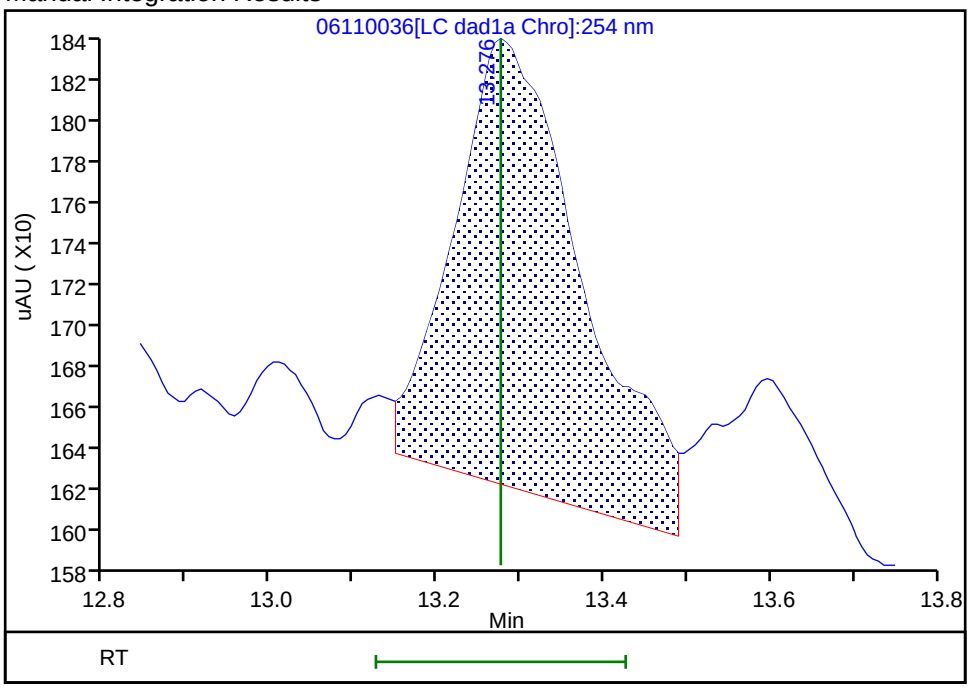
Processing Integration Results

RT: 13.28
Area: 1591
Amount: 0.014079
Amount Units: ug/mL



Manual Integration Results

RT: 13.28
Area: 2333
Amount: 0.020645
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:15:53

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

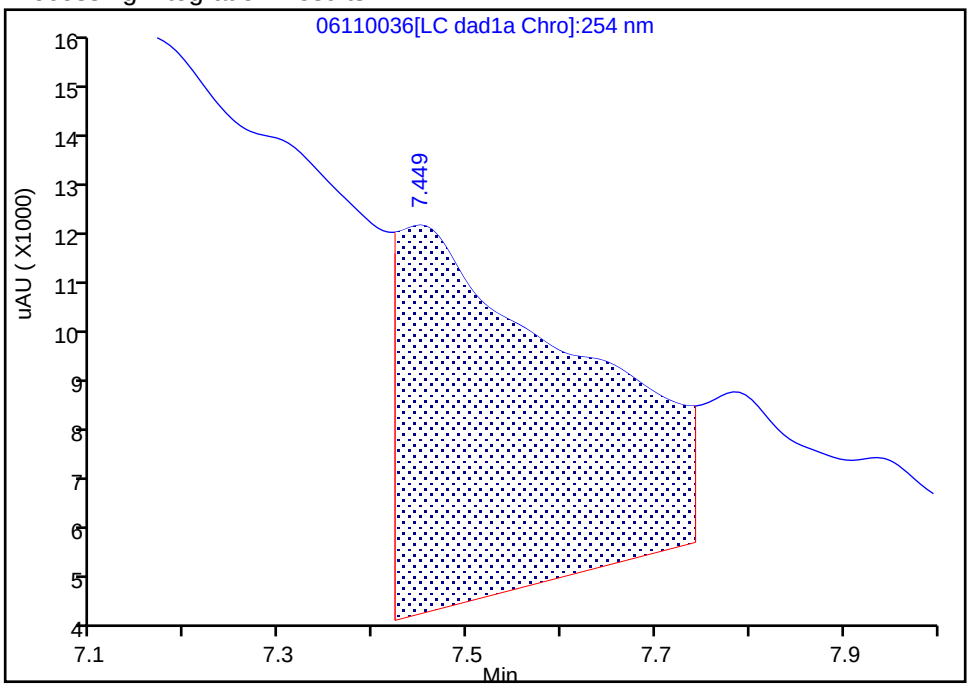
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110036.d				
Injection Date:	12-Jun-2020 02:05:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

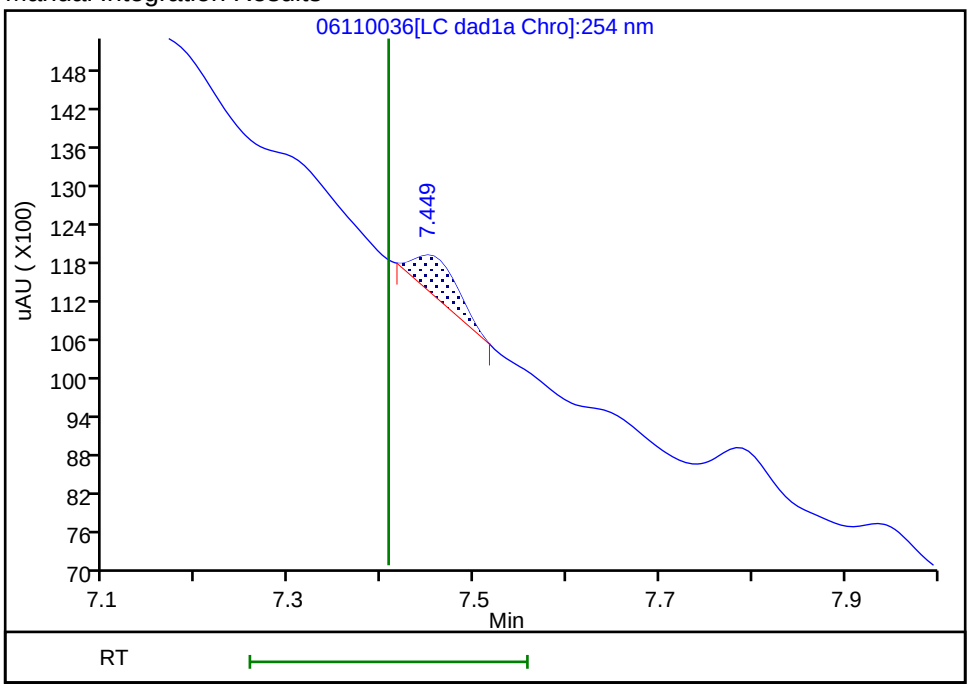
Processing Integration Results

RT: 7.45
Area: 87697
Amount: 0.553139
Amount Units: ug/mL



Manual Integration Results

RT: 7.45
Area: 1988
Amount: 0.012539
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:14:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

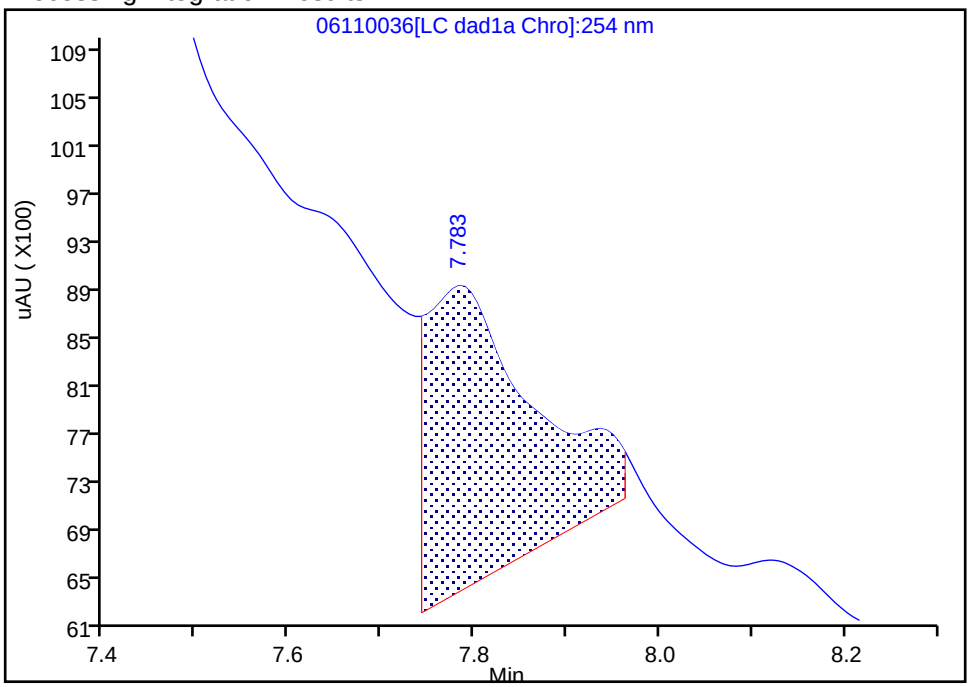
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110036.d				
Injection Date:	12-Jun-2020 02:05:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

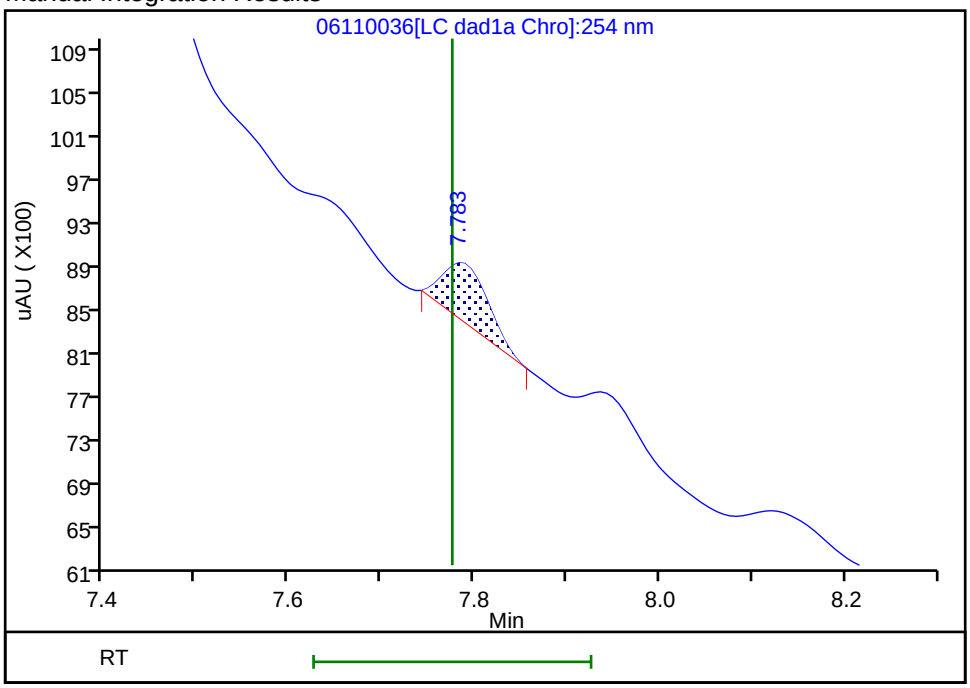
Processing Integration Results

RT: 7.78
Area: 19585
Amount: 0.167949
Amount Units: ug/mL



Manual Integration Results

RT: 7.78
Area: 1808
Amount: 0.015504
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:14:43

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45
Lab Sample ID: 280-137006-4
Matrix: Water
Lab File ID: 06120019.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 469.6(mL)
Date Analyzed: 06/13/2020 00:17
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.: 498568
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-99-0	4-Nitrotoluene	0.43	U	0.44	0.43	0.11
479-45-8	Tetryl	0.11	U	0.12	0.11	0.034

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\G2_LUNA\20200612-92371.b\06120019.D
Lims ID: 280-137006-A-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 13-Jun-2020 00:17:59 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-A-4-A
Misc. Info.: 280-0092371-019
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:53:22 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 17:50:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1		4.394			ND	
2 2,4-diamino-6-nitrotoluene	1		5.008			ND	
3 TNX	1		5.509			ND	
4 DNX	1		6.336			ND	
6 HMX	1		7.161			ND	
7 MNX	1		7.876			ND	
5 2,4,6-Trinitrophenol	1		8.528			ND	
8 RDX	1	9.388	9.387	0.001	5560	0.0228	
9 Nitrobenzene	1		12.281			ND	
$ 10 1,2-Dinitrobenzene	1	13.288	13.294	-0.006	55274	0.1927	
11 3,5-Dinitroaniline	1	15.228	15.241	-0.013	225767	0.4598	
12 1,3-Dinitrobenzene	1		15.827			ND	U
13 Nitroglycerin	2		16.067			ND	
14 o-Nitrotoluene	1	16.674	16.747	-0.073	11514	0.0422	
15 p-Nitrotoluene	1		17.041			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.468	17.487	-0.019	11570	0.0335	
17 m-Nitrotoluene	1		17.967			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.408	18.427	-0.019	32814	0.0705	
19 1,3,5-Trinitrobenzene	1	19.154	19.154	0.000	1699644	3.60	E
20 2,6-Dinitrotoluene	1		20.081			ND	
21 2,4-Dinitrotoluene	1		20.601			ND	
22 Tetryl	1		23.908			ND	
23 2,4,6-Trinitrotoluene	1	24.914	24.914	0.000	73072	0.1741	
24 PETN	2		25.448			ND	
25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

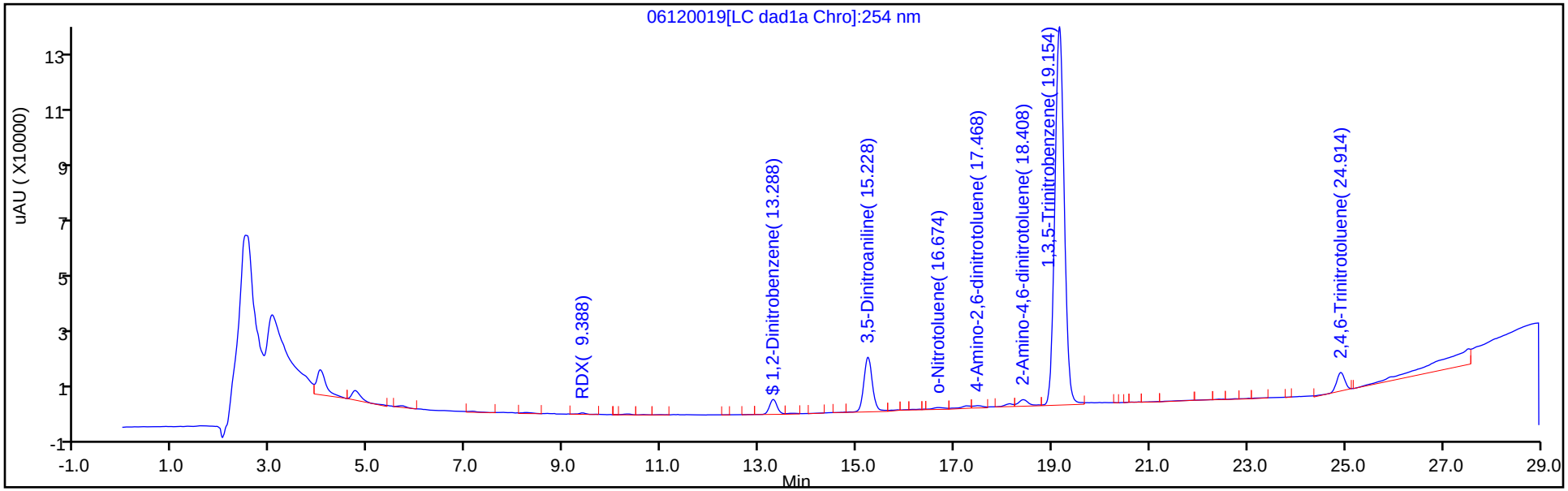
Review Flags
U - Marked Undetected

Report Date: 16-Jun-2020 18:53:25 Chrom Revision: 2.3 10-Jun-2020 22:46:48

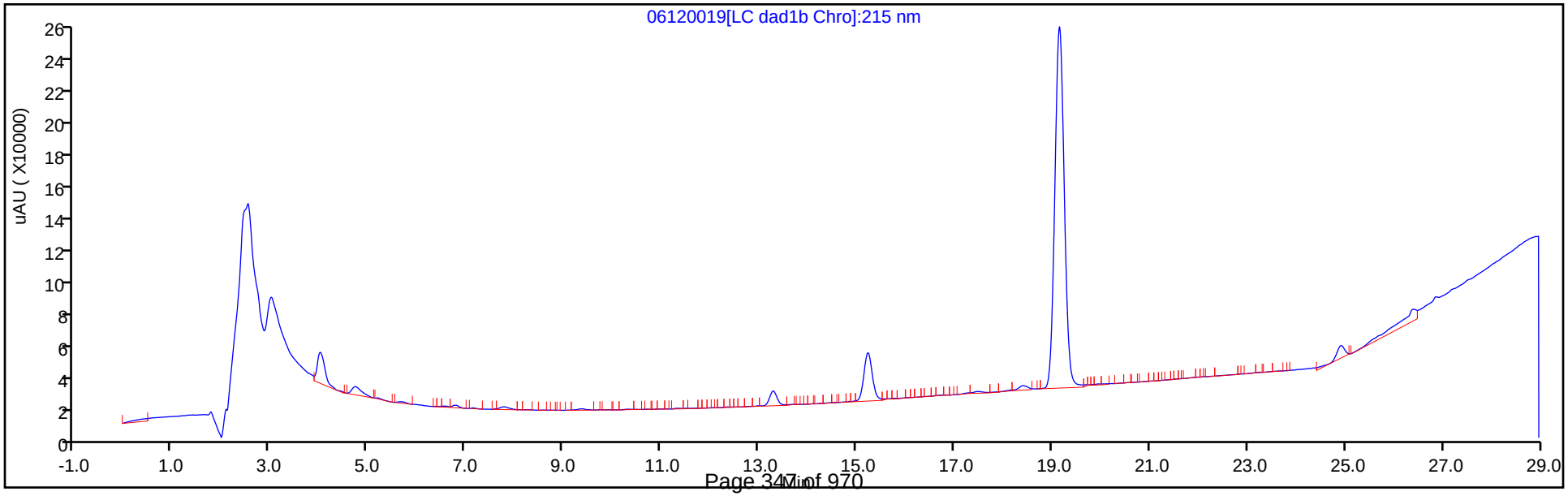
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120019.d				
Injection Date:	13-Jun-2020 00:17:59	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4	Worklist Smp#:	19
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120019.D				
Lims ID:	280-137006-A-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	13-Jun-2020 00:17:59	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-4-A				
Misc. Info.:	280-0092371-019				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		

Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 18:53:22	Calib Date:	15-May-2020 02:11:20
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC DAD1A, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 16-Jun-2020 17:50:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1927	96.37

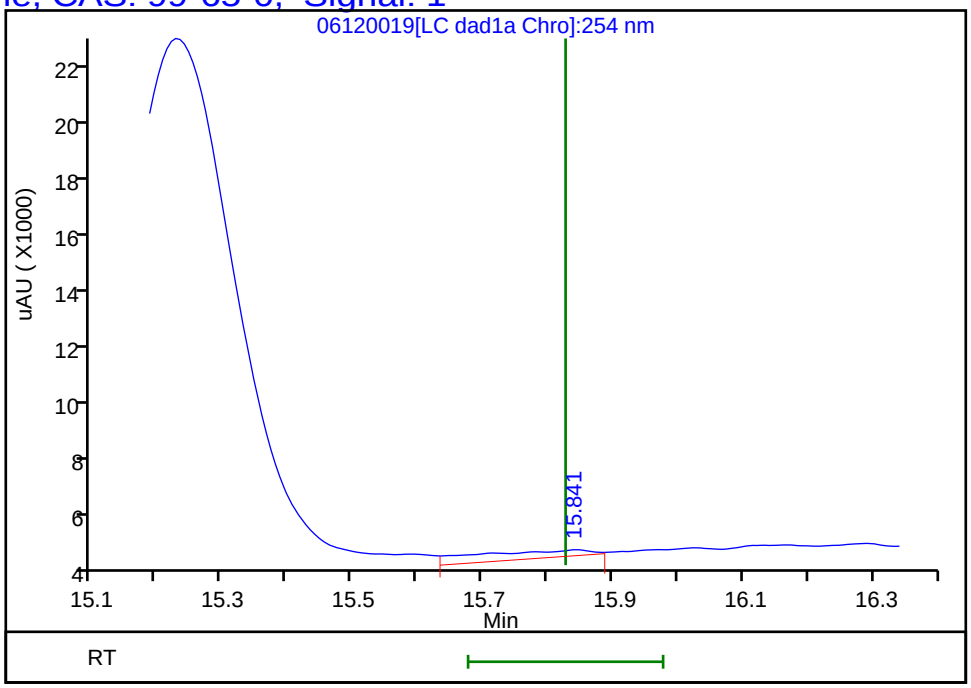
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120019.d				
Injection Date:	13-Jun-2020 00:17:59	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 15.84
Response: 3434
Amount: 0.005094



Reviewer: zhangji, 16-Jun-2020 17:50:12
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.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 RE | Lab Sample ID: 280-137006-4 RE

Matrix: Water | Lab File ID: 06170019.D

Analysis Method: 8330A | Date Collected: 05/26/2020 15:45

Extraction Method: 3535 | Date Extracted: 06/16/2020 10:10

Sample wt/vol: 472.1(mL) | Date Analyzed: 06/17/2020 23:25

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.: 499165 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	0.11	U H	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	1.9	H J1	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.085	U H	0.11	0.085	0.029
606-20-2	2,6-Dinitrotoluene	0.085	U H	0.11	0.085	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.59	H	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U H	0.22	0.21	0.091
99-08-1	3-Nitrotoluene	0.42	U H J1	0.42	0.42	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U H	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U H M	0.43	0.42	0.11
2691-41-0	HMX	0.21	U H	0.22	0.21	0.093
5755-27-1	MNX	0.42	U H M	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U H M	0.22	0.21	0.096
121-82-4	RDX	0.16	J H M J1	0.22	0.21	0.055
479-45-8	Tetryl	0.11	U H J1 M	0.12	0.11	0.034

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\20200617-92523.b\06170019.D
Lims ID: 280-137006-B-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 17-Jun-2020 23:25:41 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-B-4-A
Misc. Info.: 280-0092523-019
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:43:27

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	1 2,6-diamino-4-nitrotoluene	1		6.579			ND	U
	2 TNX	1		6.626			ND	
	3 HMX	1		6.725			ND	
	4 2,4-diamino-6-nitrotoluene	1		6.759			ND	
	5 DNX	1	6.984	6.953	0.031	32594	0.2131	M
	6 MNX	1		7.400			ND	MU
	7 RDX	1	7.791	7.792	-0.001	1740	0.0149	M
	8 2,4,6-Trinitrophenol	1		8.099			ND	
$	9 1,2-Dinitrobenzene	1	8.771	8.752	0.019	26481	0.1916	
	10 1,3,5-Trinitrobenzene	1	8.944	8.932	0.012	797878	3.46	E
	11 1,3-Dinitrobenzene	1		9.578			ND	
	12 Nitrobenzene	1		9.952			ND	U
	13 3,5-Dinitroaniline	1		10.212			ND	a
	14 Tetryl	1		10.258			ND	Ua
	15 Nitroglycerin	2		10.778			ND	
	16 2,4,6-Trinitrotoluene	1	11.271	11.238	0.033	36094	0.1769	
	17 4-Amino-2,6-dinitrotoluene	1		11.398			ND	
	18 2-Amino-4,6-dinitrotoluene	1	11.737	11.692	0.045	11367	0.0560	
	19 2,6-Dinitrotoluene	1		11.838			ND	
	20 2,4-Dinitrotoluene	1		12.038			ND	
	21 o-Nitrotoluene	1		12.865			ND	
	22 p-Nitrotoluene	1		13.292			ND	U
	23 m-Nitrotoluene	1		13.885			ND	
	24 PETN	2		14.965			ND	
	25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

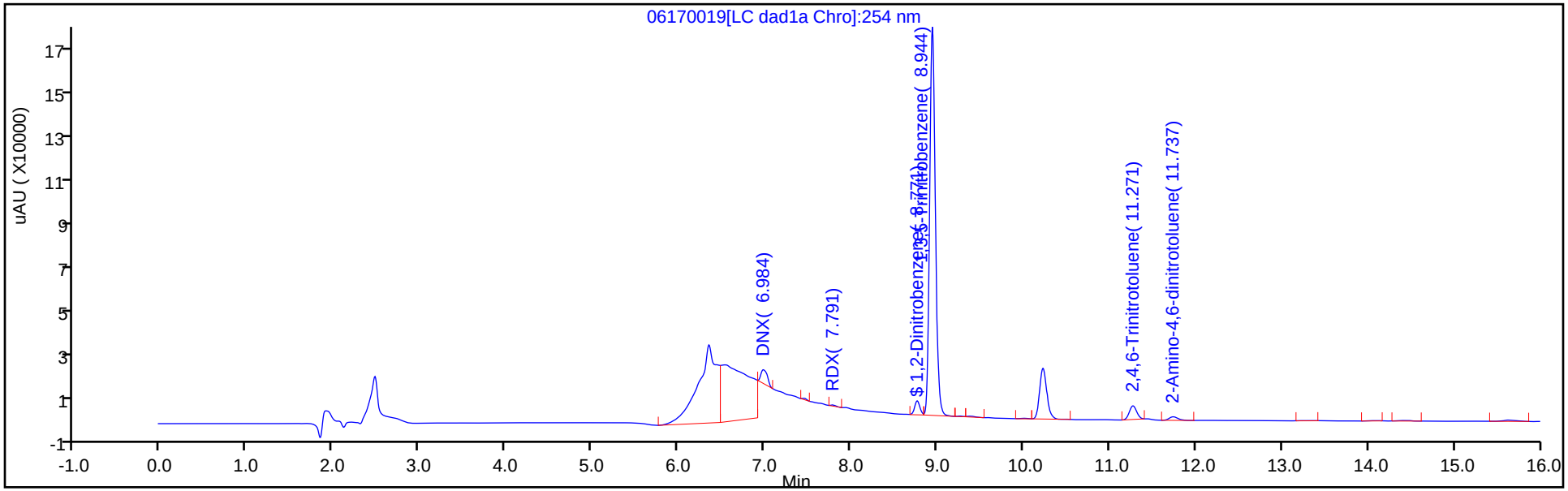
a - User Assigned ID

Report Date: 18-Jun-2020 20:46:03 Chrom Revision: 2.3 17-Jun-2020 19:07:08

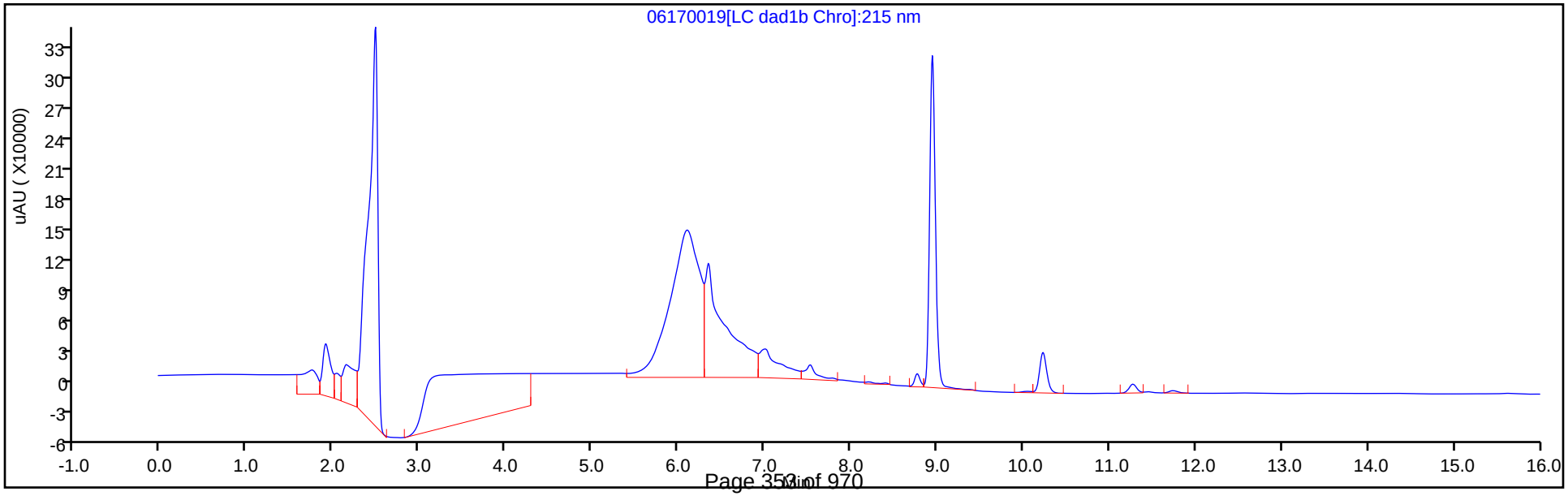
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170019.d				
Injection Date:	17-Jun-2020 23:25:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4	Worklist Smp#:	19
Client ID:	OS001-DP03-45				
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\20200617-92523.b\06170019.D				
Lims ID:	280-137006-B-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	17-Jun-2020 23:25:41	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-4-A				
Misc. Info.:	280-0092523-019				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1013	

First Level Reviewer: zhangji Date: 18-Jun-2020 19:43:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1916	95.80

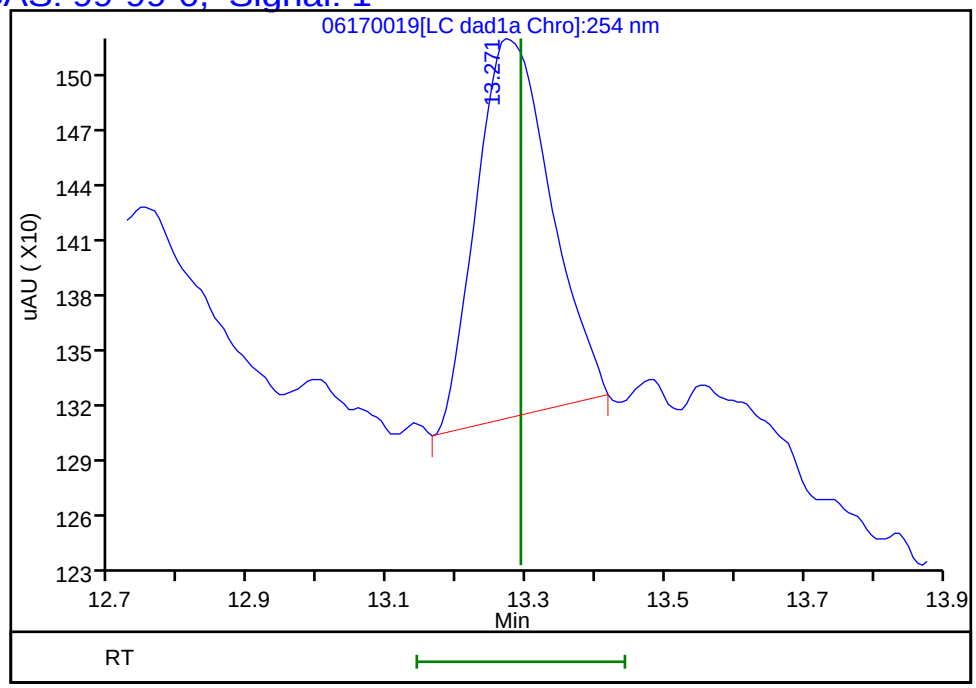
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170019.d				
Injection Date:	17-Jun-2020 23:25:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
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		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.27
Response: 1505
Amount: 0.013318



Reviewer: zhangji, 18-Jun-2020 19:43:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

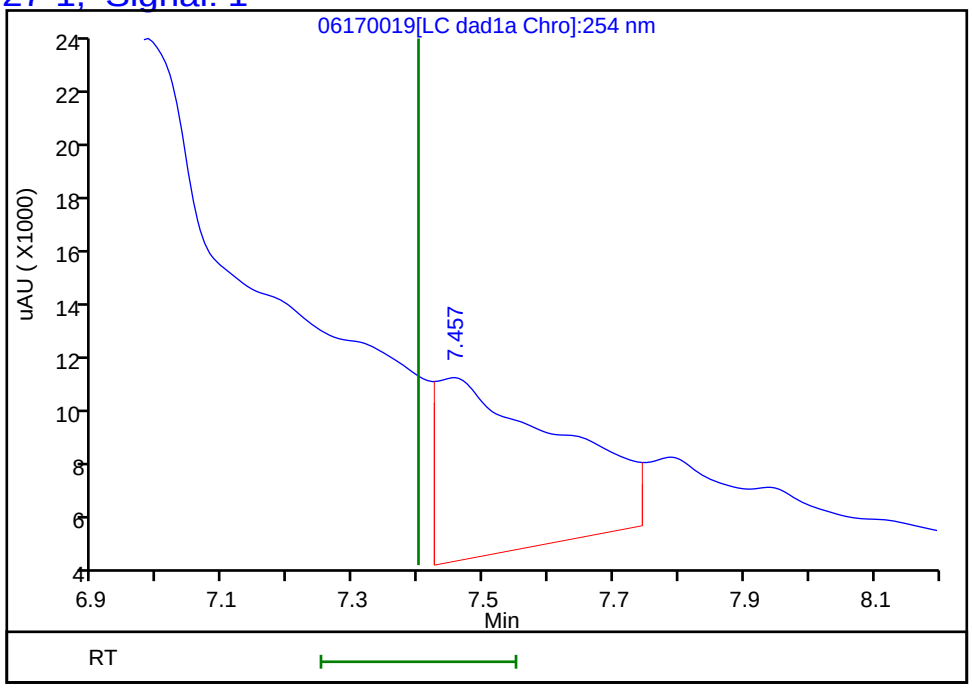
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170019.d				
Injection Date:	17-Jun-2020 23:25:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
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

RT: 7.46
Response: 87458
Amount: 0.551632



Reviewer: zhangji, 18-Jun-2020 19:43:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

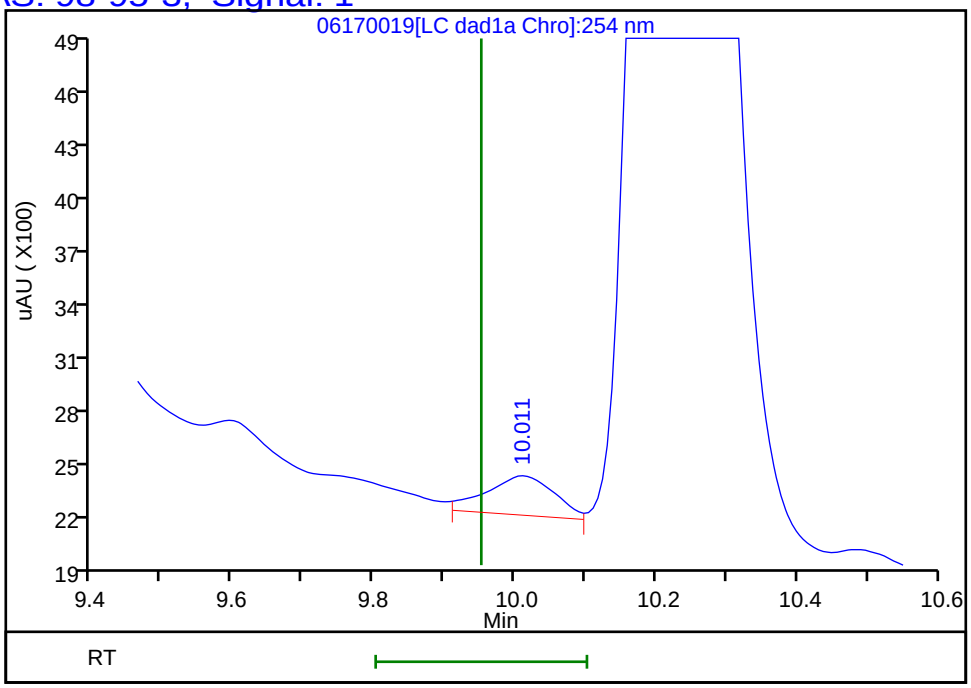
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170019.d				
Injection Date:	17-Jun-2020 23:25:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
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		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 10.01
Response: 1457
Amount: 0.007270



Reviewer: zhangji, 18-Jun-2020 19:43:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

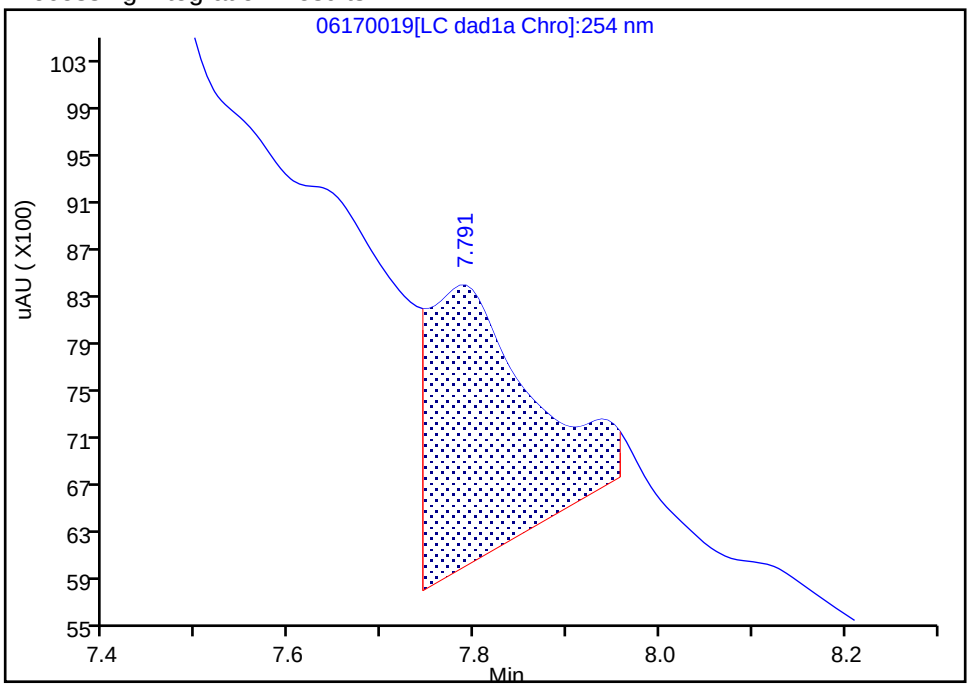
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170019.d				
Injection Date:	17-Jun-2020 23:25:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

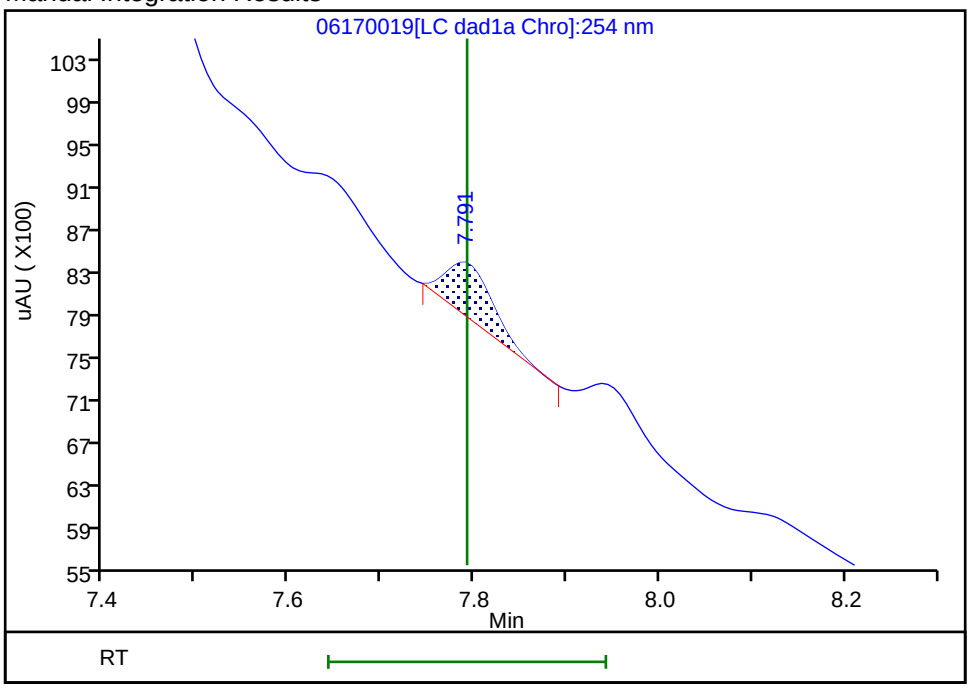
Processing Integration Results

RT: 7.79
Area: 17813
Amount: 0.152753
Amount Units: ug/mL



Manual Integration Results

RT: 7.79
Area: 1740
Amount: 0.014921
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:42:38

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 RE
Lab Sample ID: 280-137006-4 RE
Matrix: Water
Lab File ID: 012-7501.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 472.1(mL)
Date Analyzed: 06/19/2020 10:45
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.: 499350
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-82-4	*RDX*	*0.32*	*H J1*	*0.22*	0.21	*0.055*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	101		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\012-7501.D
Lims ID: 280-137006-B-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 19-Jun-2020 10:45:24 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-B-4-A
Misc. Info.: 280-0092563-012
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 19-Jun-2020 20:26:00 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1007

First Level Reviewer: zhangji Date: 19-Jun-2020 16:38:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1		4.395			ND	
2 2,4-diamino-6-nitrotoluene	1		4.941			ND	
3 TNX	1		5.509			ND	
4 DNX	1		6.336			ND	
6 HMX	1		7.155			ND	
7 MNX	1		7.876			ND	
5 2,4,6-Trinitrophenol	1		8.528			ND	
8 RDX	1	9.373	9.368	0.005	7285	0.0298	
9 Nitrobenzene	1		12.261			ND	
$ 10 1,2-Dinitrobenzene	1	13.253	13.268	-0.015	57748	0.2017	
11 3,5-Dinitroaniline	1	15.186	15.208	-0.022	282743	0.5773	
12 1,3-Dinitrobenzene	1		15.794			ND	
13 Nitroglycerin	2		16.021			ND	
14 o-Nitrotoluene	1		16.721			ND	
15 p-Nitrotoluene	1		17.008			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.433	17.454	-0.021	6375	0.0185	
17 m-Nitrotoluene	1		17.934			ND	U
18 2-Amino-4,6-dinitrotoluene	1	18.366	18.394	-0.028	28824	0.0620	
19 1,3,5-Trinitrobenzene	1	19.106	19.121	-0.015	1566853	3.32	E
20 2,6-Dinitrotoluene	1		20.048			ND	
21 2,4-Dinitrotoluene	1		20.555			ND	
22 Tetryl	1		23.861			ND	
23 2,4,6-Trinitrotoluene	1	24.866	24.875	-0.009	72293	0.1721	
24 PETN	2		25.408			ND	
25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

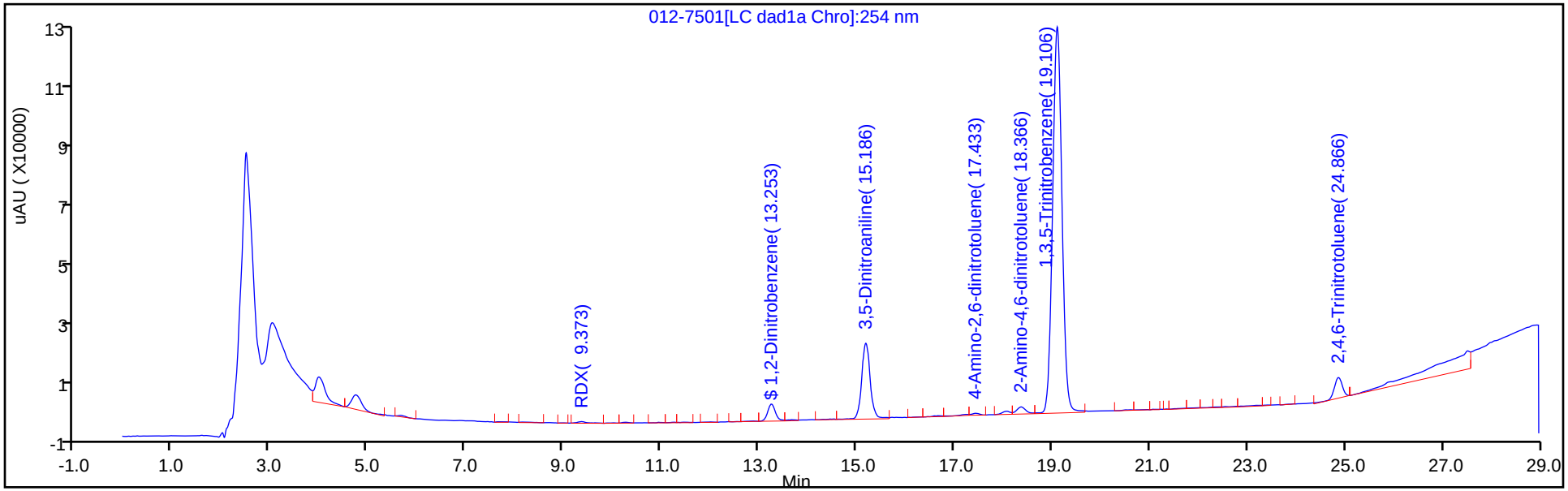
Review Flags
U - Marked Undetected

Report Date: 19-Jun-2020 20:26:02 Chrom Revision: 2.3 17-Jun-2020 19:07:08

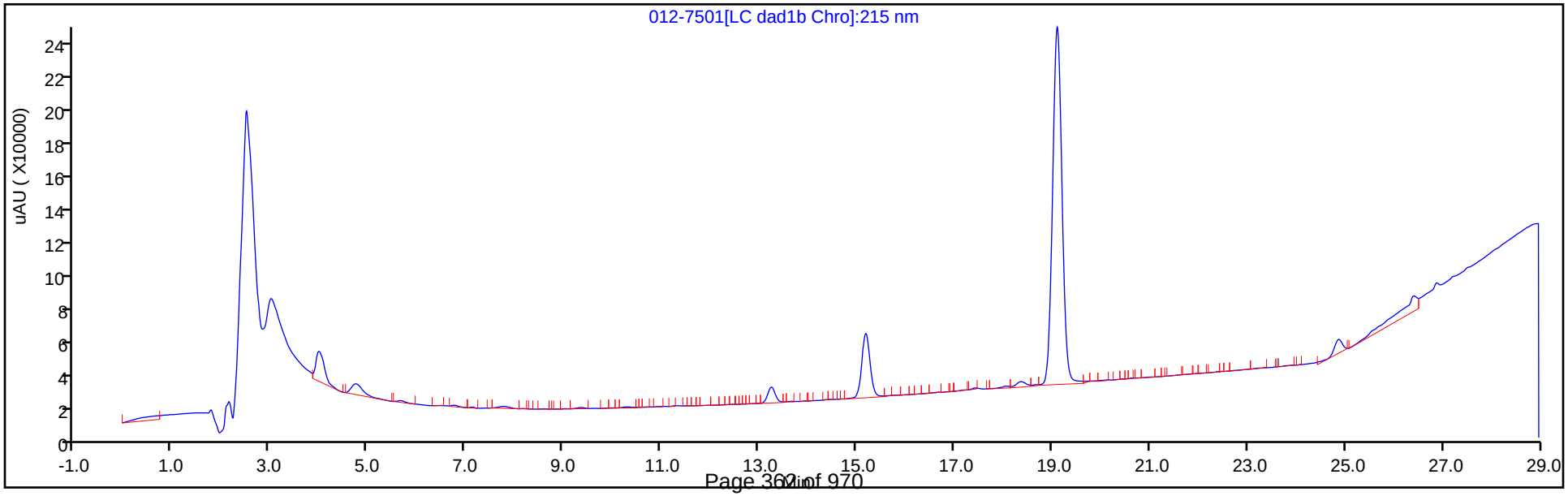
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\012-7501.d				
Injection Date:	19-Jun-2020 10:45:24	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4	Worklist Smp#:	12
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\012-7501.D				
Lims ID:	280-137006-B-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	19-Jun-2020 10:45:24	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-4-A				
Misc. Info.:	280-0092563-012				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		

Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	19-Jun-2020 20:26:00	Calib Date:	15-May-2020 02:11:20
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC DAD1A, 254 nm
Process Host:	CTX1007	

First Level Reviewer: zhangji Date: 19-Jun-2020 16:38:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2017	100.84

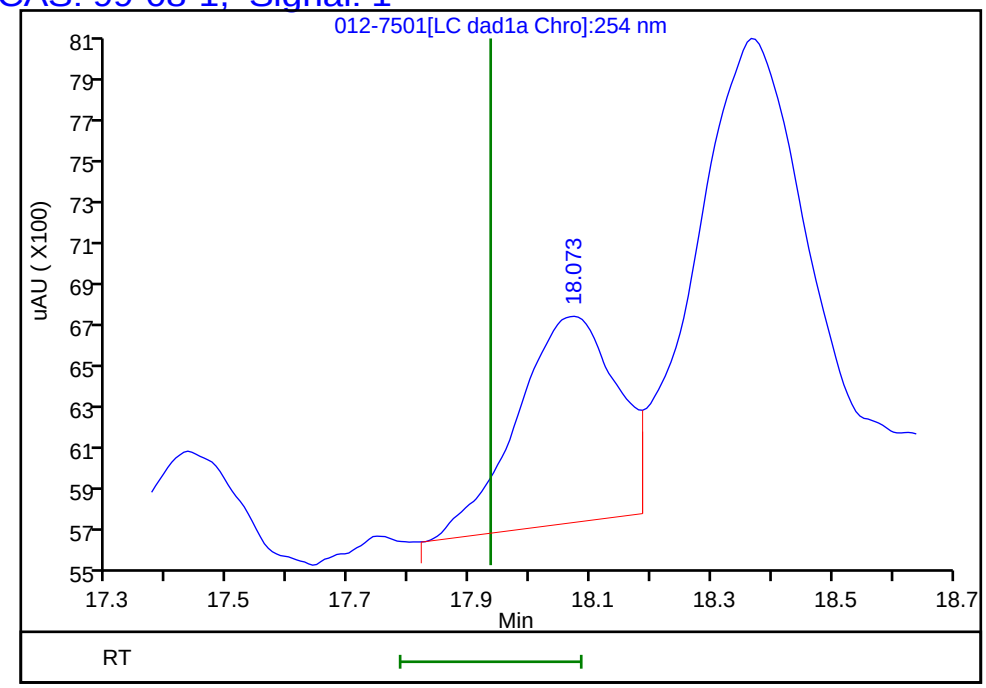
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\012-7501.d				
Injection Date:	19-Jun-2020 10:45:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.07
Response: 11174
Amount: 0.037456



Reviewer: zhangji, 19-Jun-2020 16:38:51
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 DL
Lab Sample ID: 280-137006-4 DL
Matrix: Water
Lab File ID: 06120014.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 469.6(mL)
Date Analyzed: 06/12/2020 16:07
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 498536
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	49	D Q	2.2	2.1	0.90

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	124	Q D	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120014.D
Lims ID: 280-137006-A-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 12-Jun-2020 16:07:28 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137006-A-4-A
Misc. Info.: 280-0092367-014
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:11:22 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 12-Jun-2020 16:58:11

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	1 2,6-diamino-4-nitrotoluene	1		6.576			ND	U
	2 TNX	1		6.621			ND	
	3 HMX	1		6.704			ND	
	4 2,4-diamino-6-nitrotoluene	1		6.762			ND	
	5 DNX	1		6.947			ND	U
	6 MNX	1		7.394			ND	
	7 RDX	1		7.797			ND	
	8 2,4,6-Trinitrophenol	1		8.111			ND	
$	9 1,2-Dinitrobenzene	1	8.775	8.777	-0.002	3429	0.0248	
	10 1,3,5-Trinitrobenzene	1	8.955	8.957	-0.002	105837	0.4595	
	11 1,3-Dinitrobenzene	1		9.617			ND	
	12 Nitrobenzene	1		10.004			ND	
	13 3,5-Dinitroaniline	1		10.215			ND	U
	14 Tetryl	1		10.330			ND	
	15 Nitroglycerin	2		10.850			ND	
	16 2,4,6-Trinitrotoluene	1	11.295	11.310	-0.015	4329	0.0212	M
	17 4-Amino-2,6-dinitrotoluene	1		11.484			ND	
	18 2-Amino-4,6-dinitrotoluene	1	11.762	11.784	-0.022	1234	0.006084	M
	19 2,6-Dinitrotoluene	1		11.924			ND	
	20 2,4-Dinitrotoluene	1		12.124			ND	
	21 o-Nitrotoluene	1		12.977			ND	U
	22 p-Nitrotoluene	1		13.424			ND	U
	23 m-Nitrotoluene	1		14.030			ND	U
	24 PETN	2		15.164			ND	U
	25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

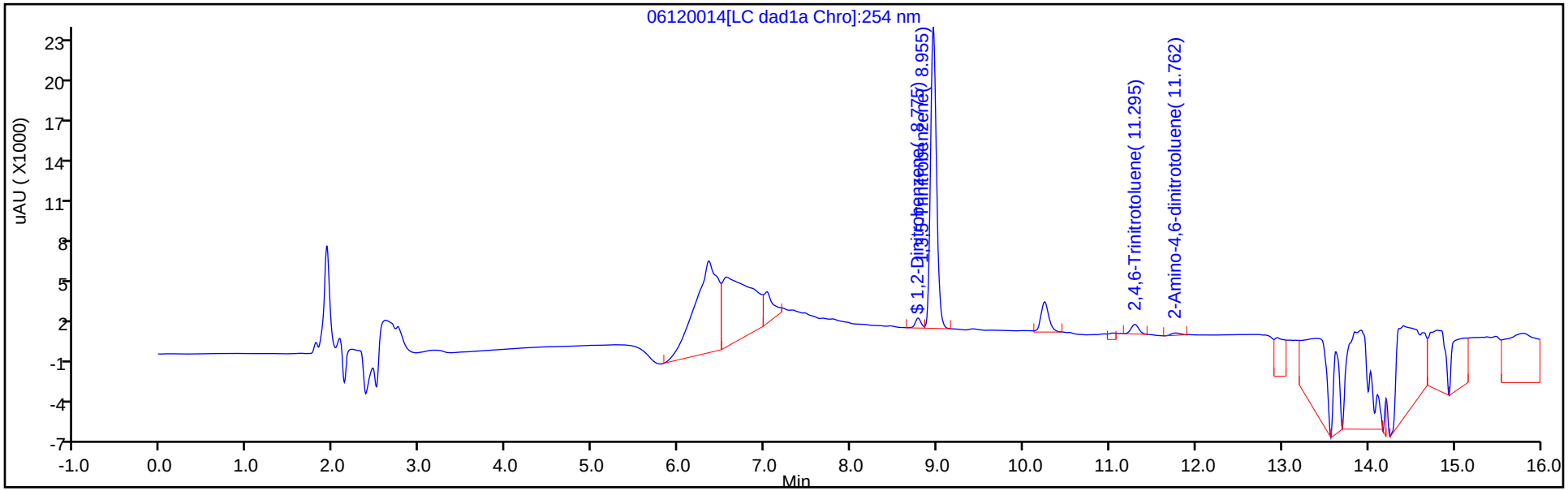
U - Marked Undetected

Report Date: 16-Jun-2020 18:11:24 Chrom Revision: 2.3 10-Jun-2020 22:46:48

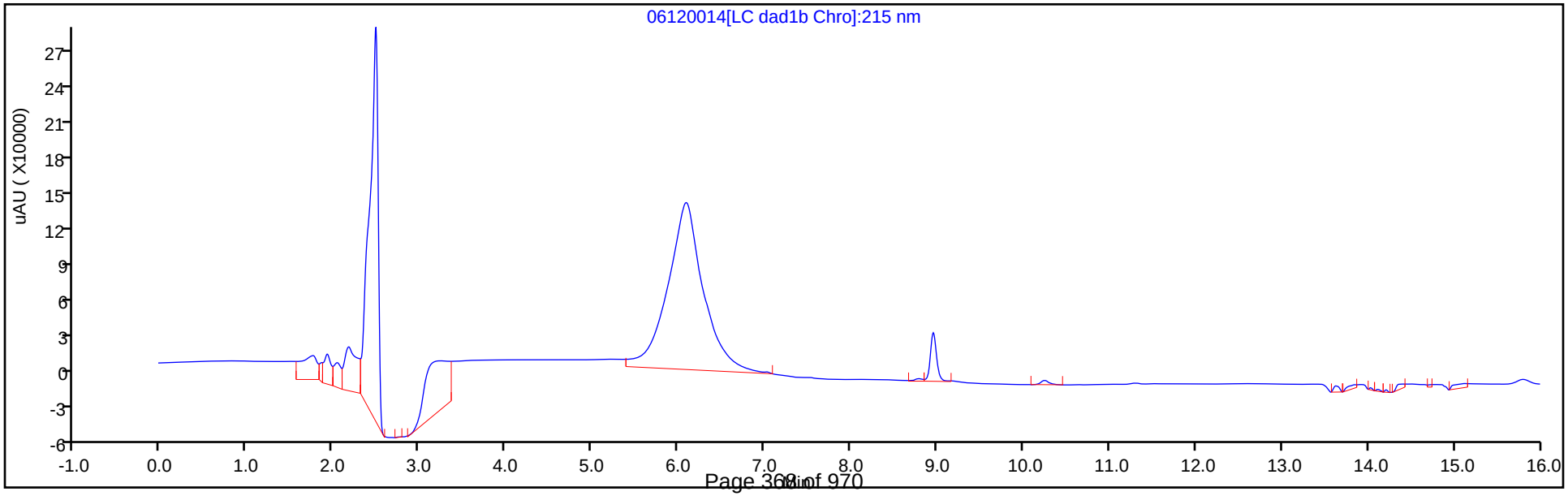
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120014.d				
Injection Date:	12-Jun-2020 16:07:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4	Worklist Smp#:	14
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	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\20200612-92367.b\06120014.D				
Lims ID:	280-137006-A-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	12-Jun-2020 16:07:28	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-A-4-A				
Misc. Info.:	280-0092367-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 18:11:22	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 12-Jun-2020 16:58:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0248	12.40

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

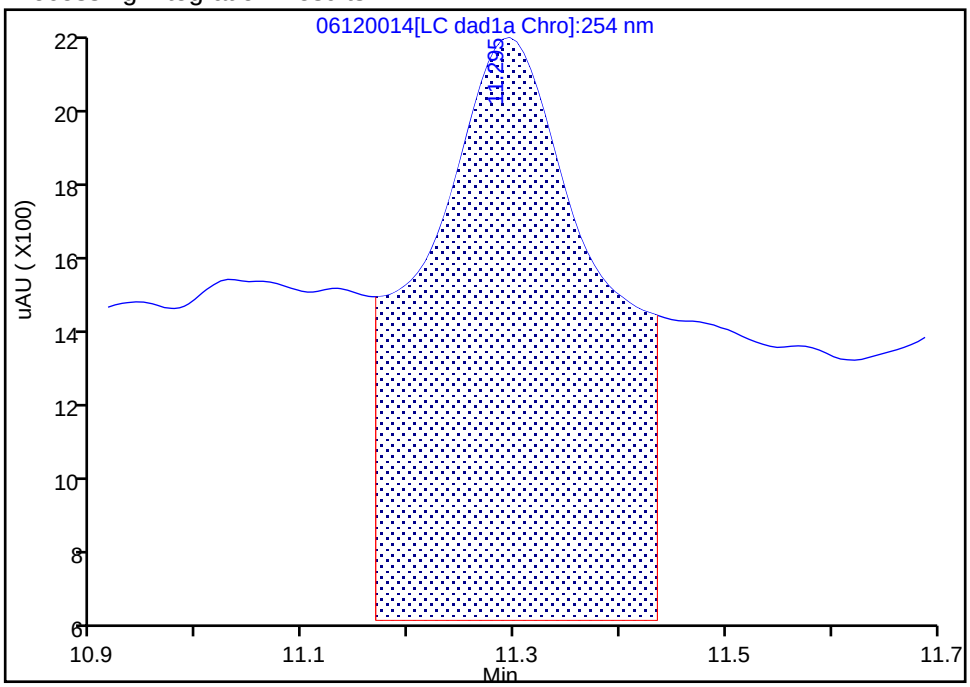
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120014.d				
Injection Date:	12-Jun-2020 16:07:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

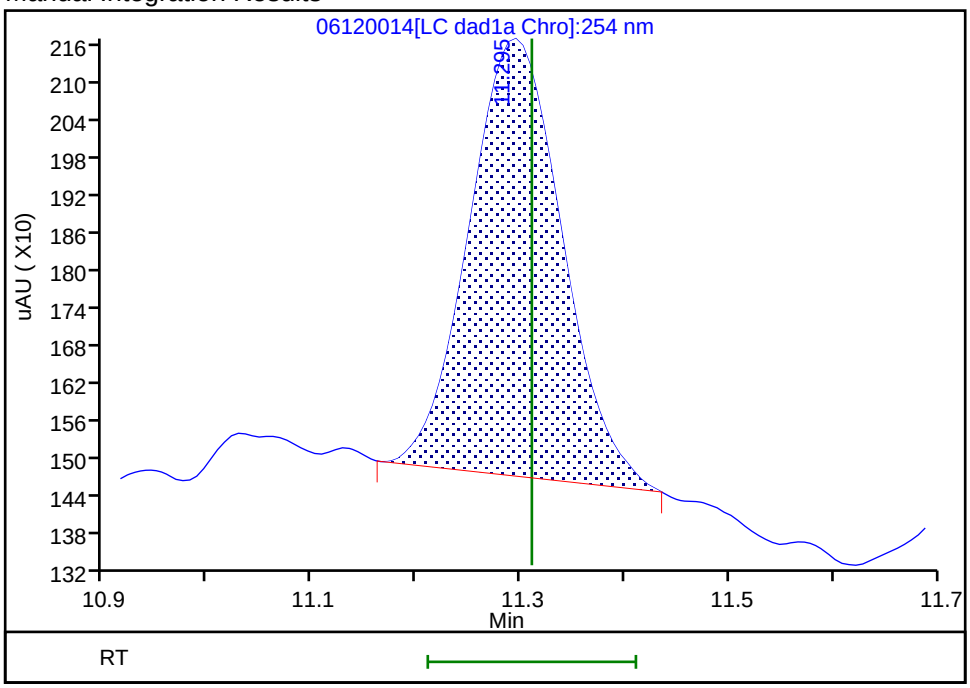
Processing Integration Results

RT: 11.30
Area: 17336
Amount: 0.084967
Amount Units: ug/mL



Manual Integration Results

RT: 11.30
Area: 4329
Amount: 0.021217
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 16:57:54

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

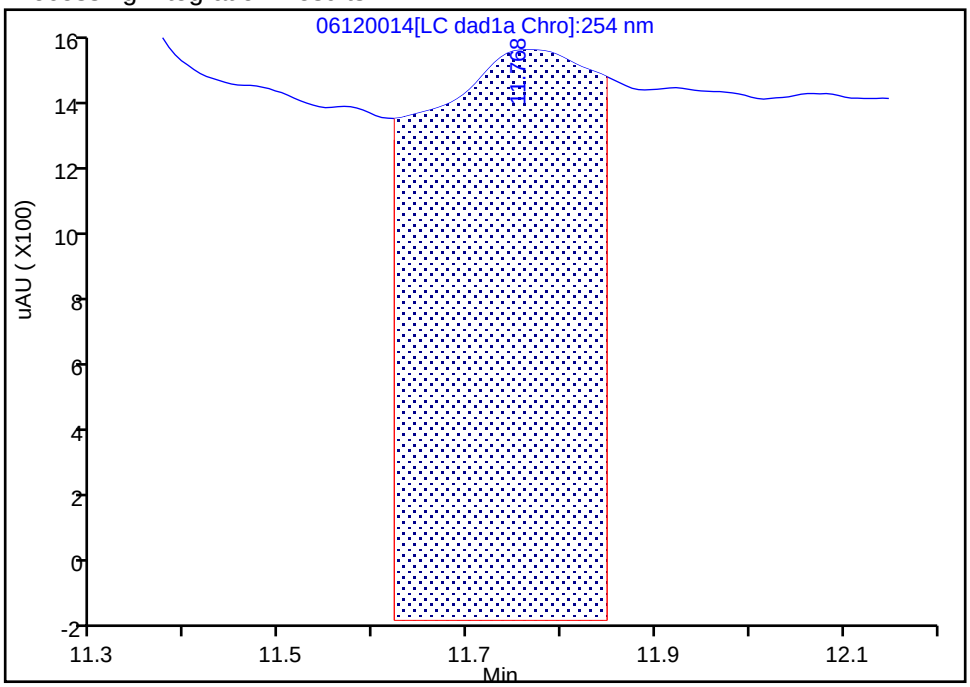
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120014.d				
Injection Date:	12-Jun-2020 16:07:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

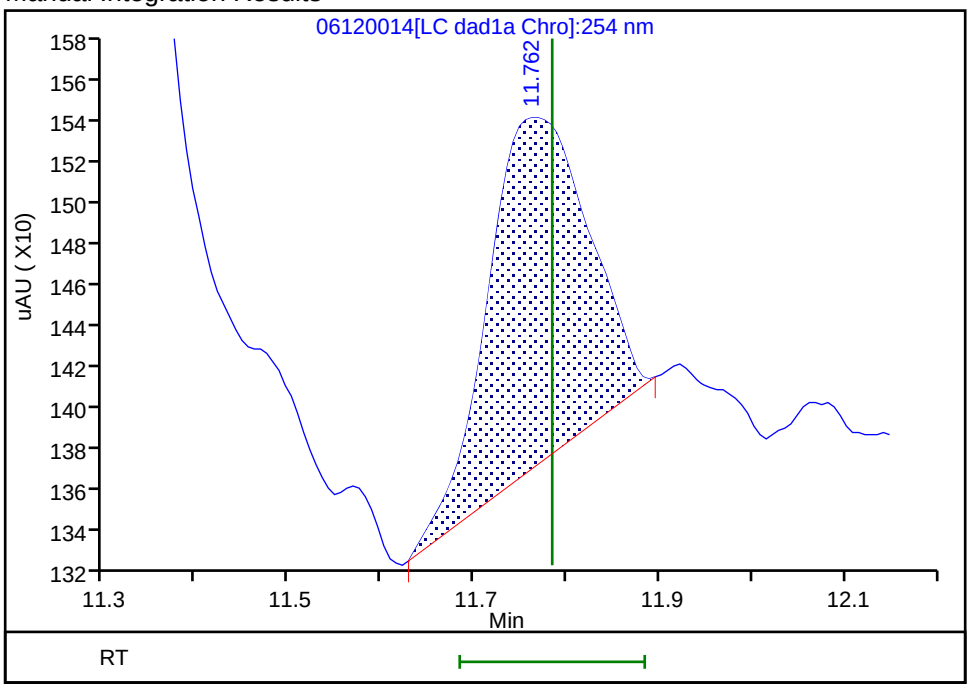
Processing Integration Results

RT: 11.77
Area: 22455
Amount: 0.110716
Amount Units: ug/mL



Manual Integration Results

RT: 11.76
Area: 1234
Amount: 0.006084
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 16:58:02

Audit Action: Manually Integrated Audit Reason: Baseline

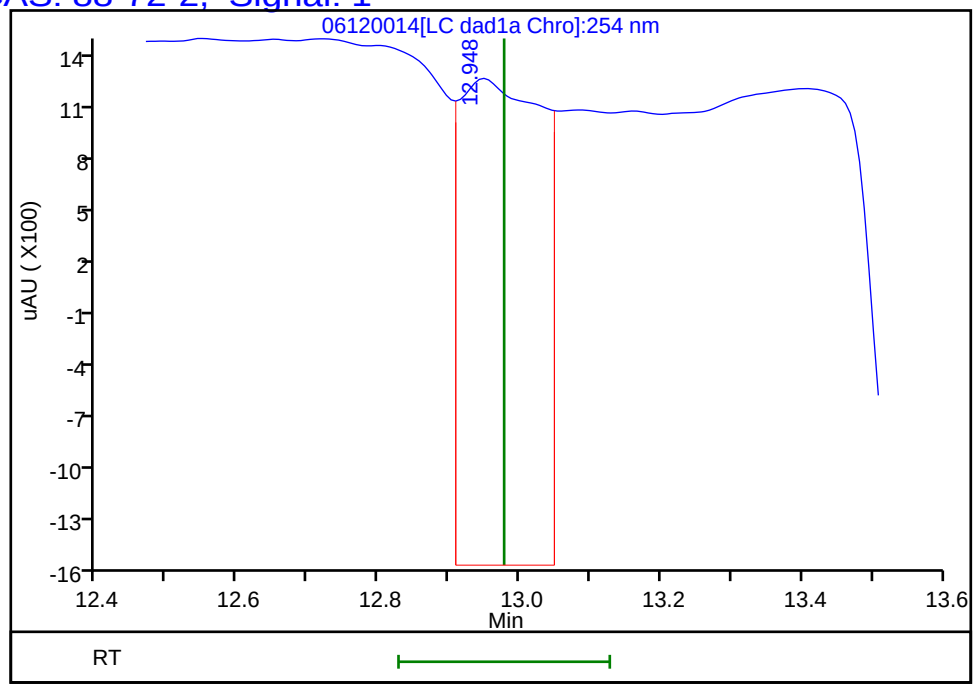
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120014.d				
Injection Date:	12-Jun-2020 16:07:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.95
Response: 22566
Amount: 0.167093



Reviewer: zhangji, 12-Jun-2020 16:58:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

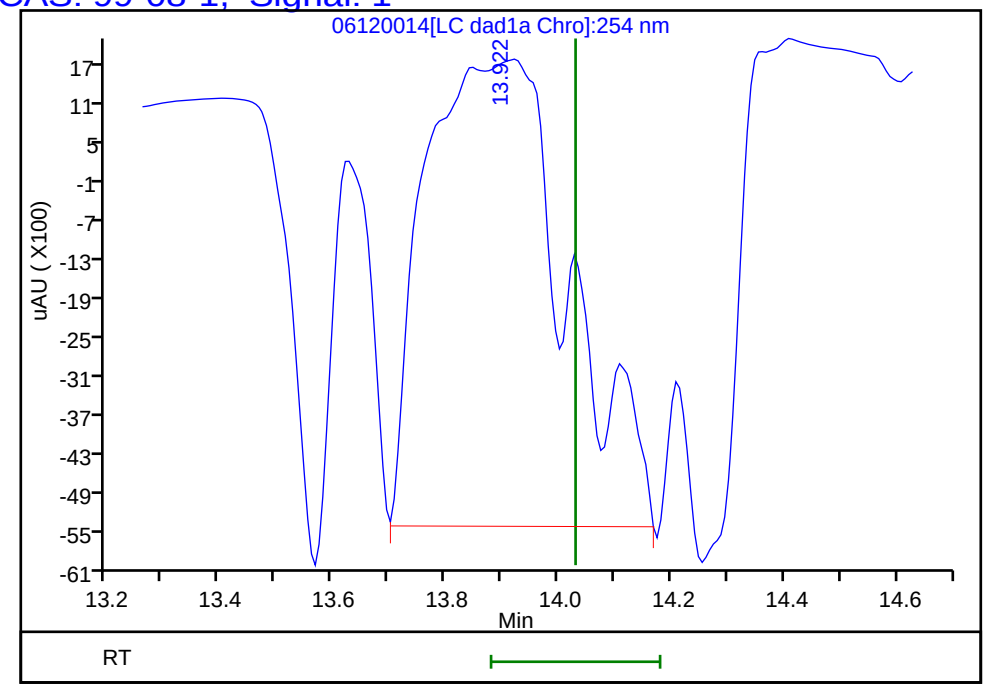
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120014.d				
Injection Date:	12-Jun-2020 16:07:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.92
Response: 125152
Amount: 0.875014



Reviewer: zhangji, 12-Jun-2020 16:58:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

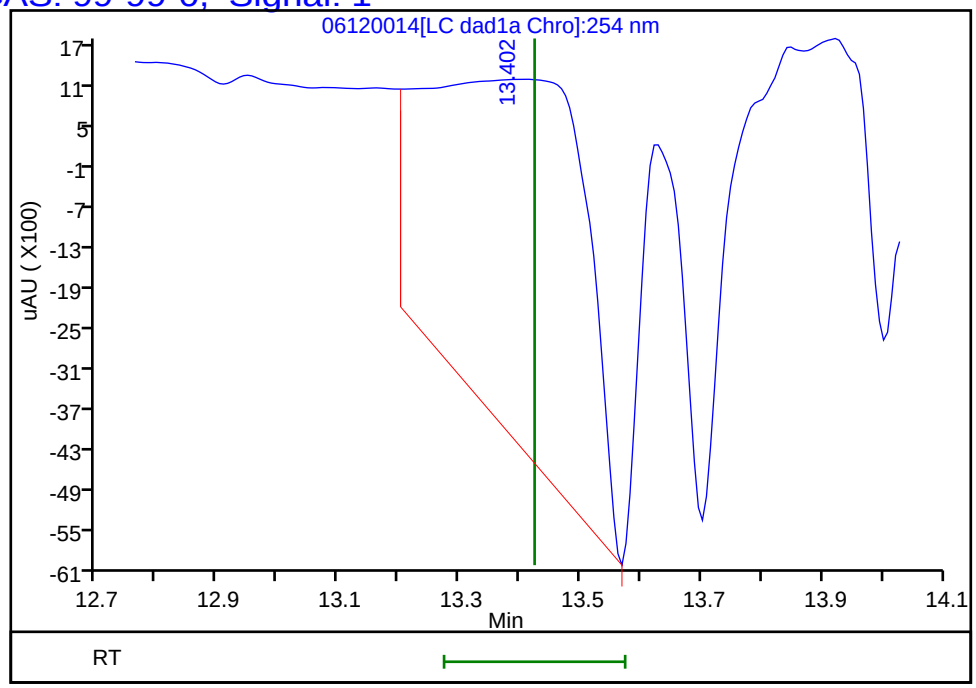
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120014.d				
Injection Date:	12-Jun-2020 16:07:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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: 13.40
Response: 96406
Amount: 0.853112



Reviewer: zhangji, 12-Jun-2020 16:58:11
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.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 DL Lab Sample ID: 280-137006-4 DL

Matrix: Water Lab File ID: 06120023.D

Analysis Method: 8330A Date Collected: 05/26/2020 15:45

Extraction Method: 3535 Date Extracted: 06/01/2020 10:20

Sample wt/vol: 469.6(mL) Date Analyzed: 06/13/2020 02:37

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 498568 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	47	*Q D*	83-119

FORM I 8330A

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120023.D
Lims ID: 280-137006-A-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 13-Jun-2020 02:37:51 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137006-A-4-A
Misc. Info.: 280-0092371-023
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:53:22 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 17:51:42

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1		4.394			ND	
2 2,4-diamino-6-nitrotoluene	1		5.008			ND	
3 TNX	1		5.509			ND	
4 DNX	1		6.336			ND	U
6 HMX	1		7.161			ND	
7 MNX	1		7.876			ND	
5 2,4,6-Trinitrophenol	1		8.528			ND	
8 RDX	1		9.387			ND	
9 Nitrobenzene	1		12.281			ND	
$ 10 1,2-Dinitrobenzene	1	13.257	13.294	-0.037	4458	0.009447	
11 3,5-Dinitroaniline	1	15.223	15.241	-0.018	17657	0.0307	
12 1,3-Dinitrobenzene	1		15.827			ND	
13 Nitroglycerin	2		16.067			ND	
14 o-Nitrotoluene	1		16.747			ND	
15 p-Nitrotoluene	1		17.041			ND	
16 4-Amino-2,6-dinitrotoluene	1		17.487			ND	
17 m-Nitrotoluene	1		17.967			ND	
18 2-Amino-4,6-dinitrotoluene	1		18.427			ND	U
19 1,3,5-Trinitrobenzene	1	19.137	19.154	-0.017	118493	0.2508	M
20 2,6-Dinitrotoluene	1		20.081			ND	
21 2,4-Dinitrotoluene	1		20.601			ND	U
22 Tetryl	1		23.908			ND	U
23 2,4,6-Trinitrotoluene	1		24.914			ND	
24 PETN	2		25.448			ND	
25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

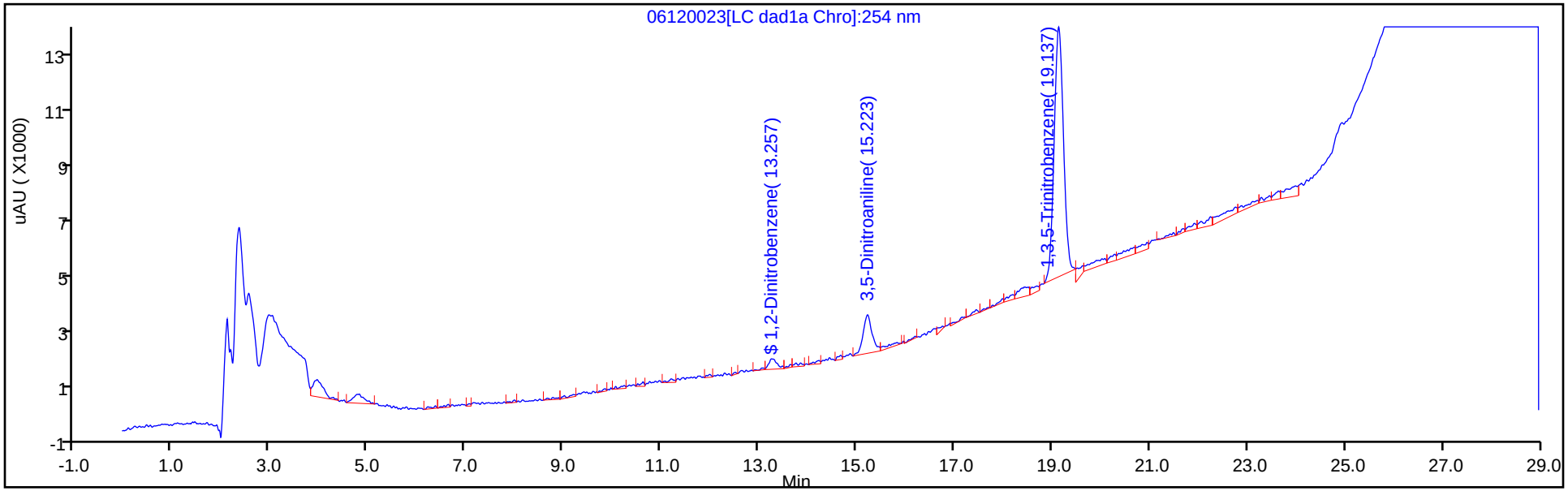
U - Marked Undetected

Report Date: 16-Jun-2020 18:53:24 Chrom Revision: 2.3 10-Jun-2020 22:46:48

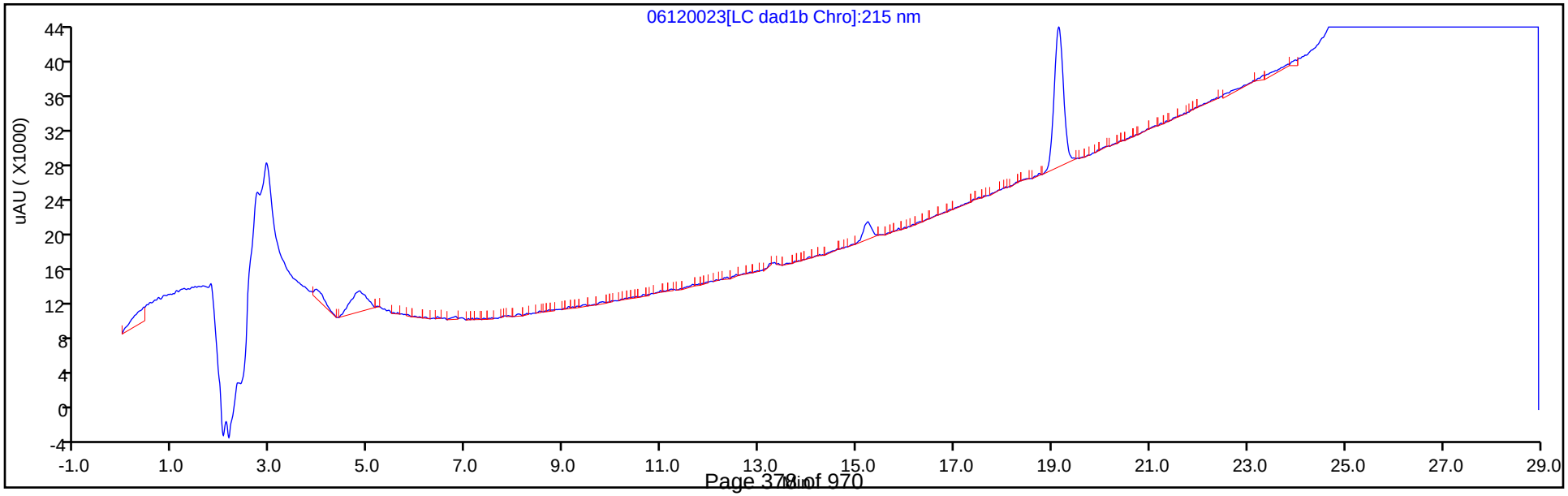
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120023.d				
Injection Date:	13-Jun-2020 02:37:51	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4	Worklist Smp#:	23
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	23
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120023.D				
Lims ID:	280-137006-A-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	13-Jun-2020 02:37:51	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-A-4-A				
Misc. Info.:	280-0092371-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		

Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m		
Limit Group:	GCSV - 8330		
Last Update:	16-Jun-2020 18:53:22	Calib Date:	15-May-2020 02:11:20
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D		

Column 1 :	Luna-Phenyl hexyl (4.60 mm)	Det: LC DAD1A, 254 nm
Process Host:	CTX1024	

First Level Reviewer: zhangji Date: 16-Jun-2020 17:51:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.009447	4.72

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

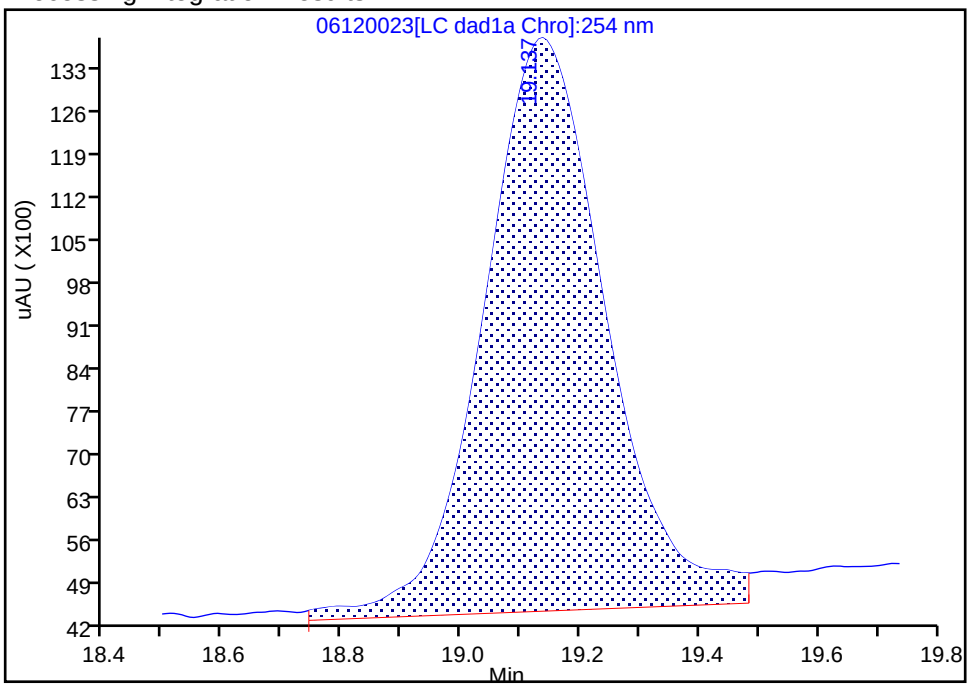
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120023.d				
Injection Date:	13-Jun-2020 02:37:51	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

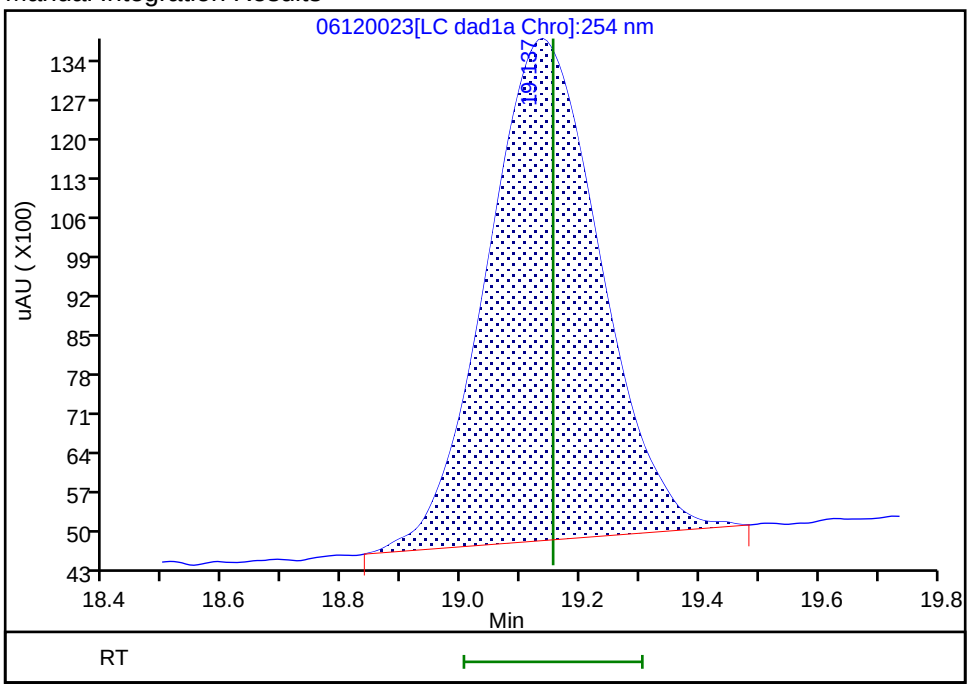
Processing Integration Results

RT: 19.14
Area: 133065
Amount: 0.281648
Amount Units: ug/ml



Manual Integration Results

RT: 19.14
Area: 118493
Amount: 0.250805
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:51:41

Audit Action: Manually Integrated Audit Reason: Baseline

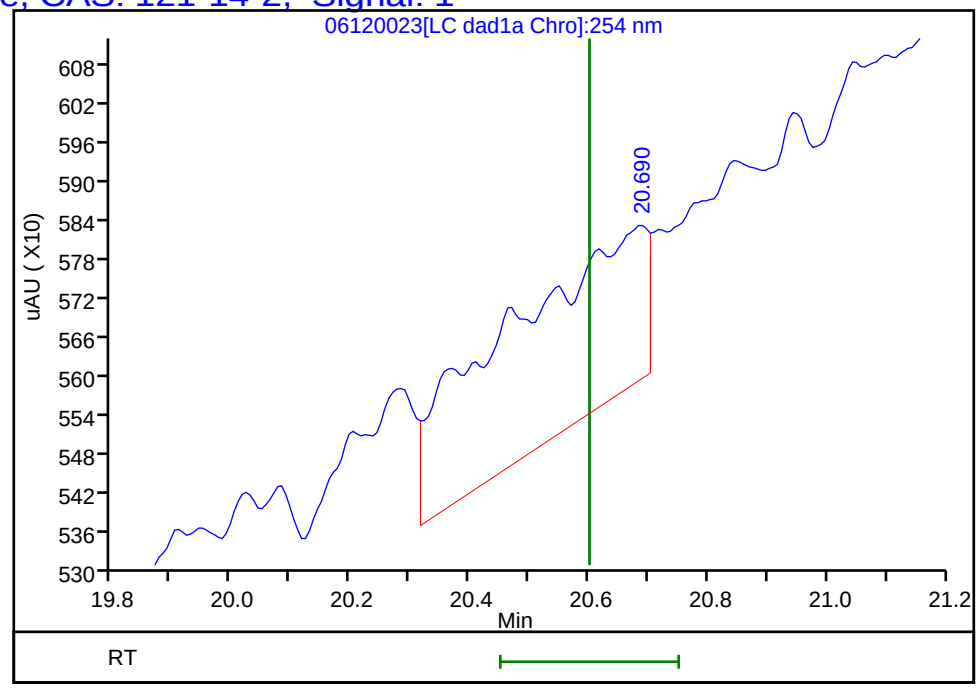
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120023.d				
Injection Date:	13-Jun-2020 02:37:51	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 20.69
Response: 4887
Amount: 0.007635



Reviewer: zhangji, 16-Jun-2020 17:51:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

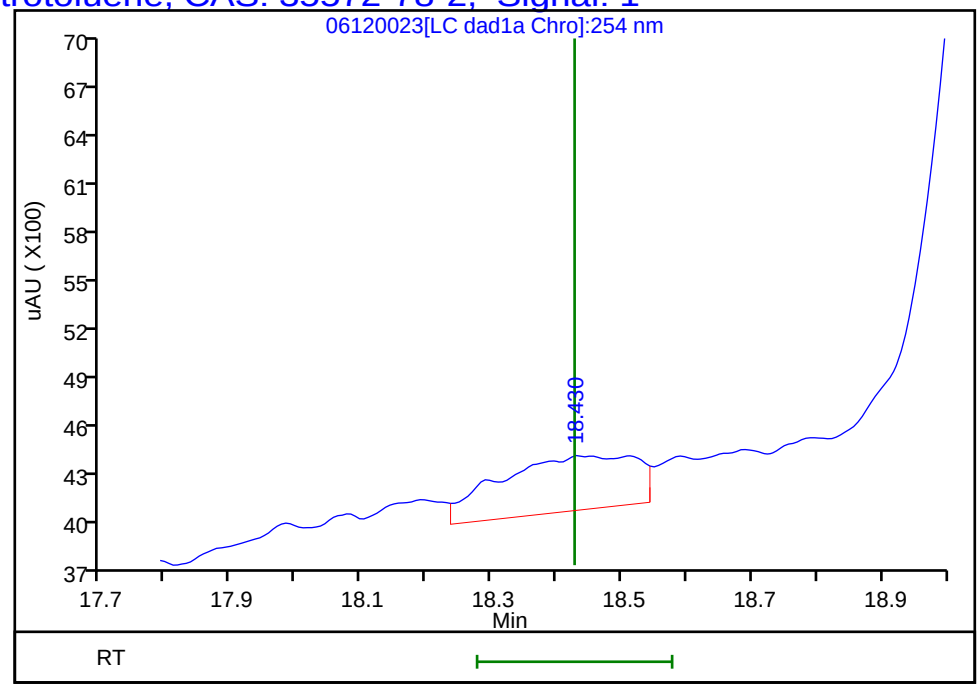
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120023.d				
Injection Date:	13-Jun-2020 02:37:51	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 18.43
Response: 4996
Amount: 0.010739



Reviewer: zhangji, 16-Jun-2020 17:51:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

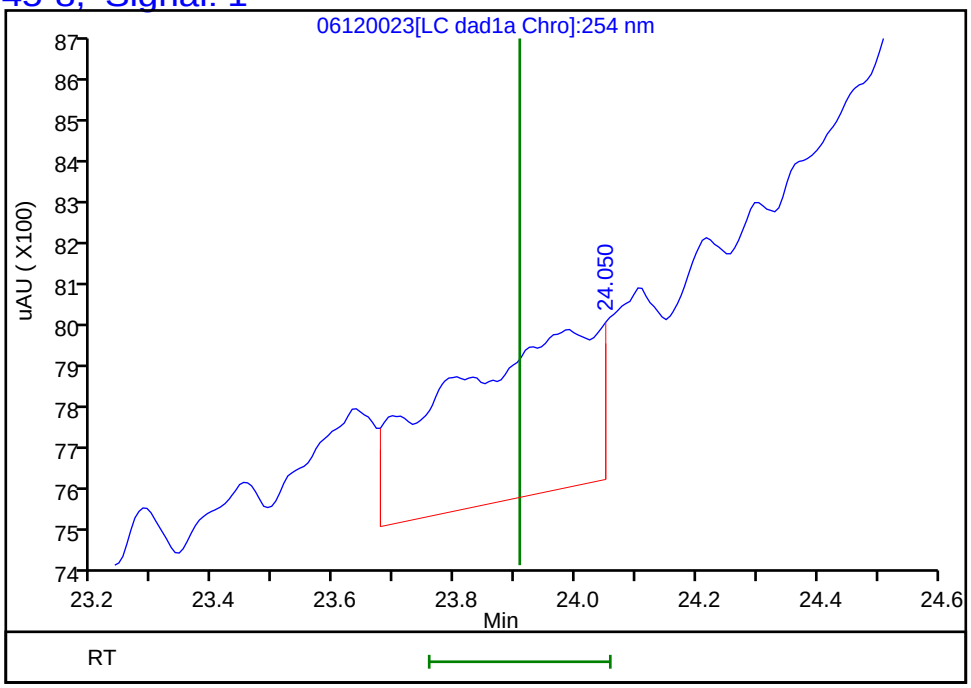
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120023.d				
Injection Date:	13-Jun-2020 02:37:51	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-A-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

22 Tetryl, CAS: 479-45-8, Signal: 1

RT: 24.05
Response: 6741
Amount: 0.018284



Reviewer: zhangji, 16-Jun-2020 17:51:42
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.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 REDL
Lab Sample ID: 280-137006-4 REDL
Matrix: Water
Lab File ID: 06170022.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 472.1(mL)
Date Analyzed: 06/18/2020 00:34
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 499165
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*37*	*H J1 D*	*2.2*	2.1	*0.89*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170022.D
Lims ID: 280-137006-B-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 18-Jun-2020 00:34:42 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137006-B-4-A
Misc. Info.: 280-0092523-022
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:47:03

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	1 2,6-diamino-4-nitrotoluene	1		6.579			ND	U
	2 TNX	1		6.626			ND	
	3 HMX	1		6.725			ND	
	4 2,4-diamino-6-nitrotoluene	1		6.759			ND	
	5 DNX	1	6.990	6.953	0.037	2803	0.0183	M
	6 MNX	1		7.400			ND	
	7 RDX	1		7.792			ND	
	8 2,4,6-Trinitrophenol	1		8.099			ND	
$	9 1,2-Dinitrobenzene	1	8.764	8.752	0.012	2624	0.0190	
	10 1,3,5-Trinitrobenzene	1	8.944	8.932	0.012	80561	0.3498	
	11 1,3-Dinitrobenzene	1		9.578			ND	
	12 Nitrobenzene	1		9.952			ND	
	13 3,5-Dinitroaniline	1		10.212			ND	a
	14 Tetryl	1		10.258			ND	Ua
	15 Nitroglycerin	2		10.778			ND	
	16 2,4,6-Trinitrotoluene	1	11.264	11.238	0.026	3994	0.0196	M
	17 4-Amino-2,6-dinitrotoluene	1		11.398			ND	
	18 2-Amino-4,6-dinitrotoluene	1	11.737	11.692	0.045	1613	0.007953	M
	19 2,6-Dinitrotoluene	1		11.838			ND	
	20 2,4-Dinitrotoluene	1		12.038			ND	
	21 o-Nitrotoluene	1		12.865			ND	
	22 p-Nitrotoluene	1		13.292			ND	
	23 m-Nitrotoluene	1		13.885			ND	
	24 PETN	2		14.965			ND	
	25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

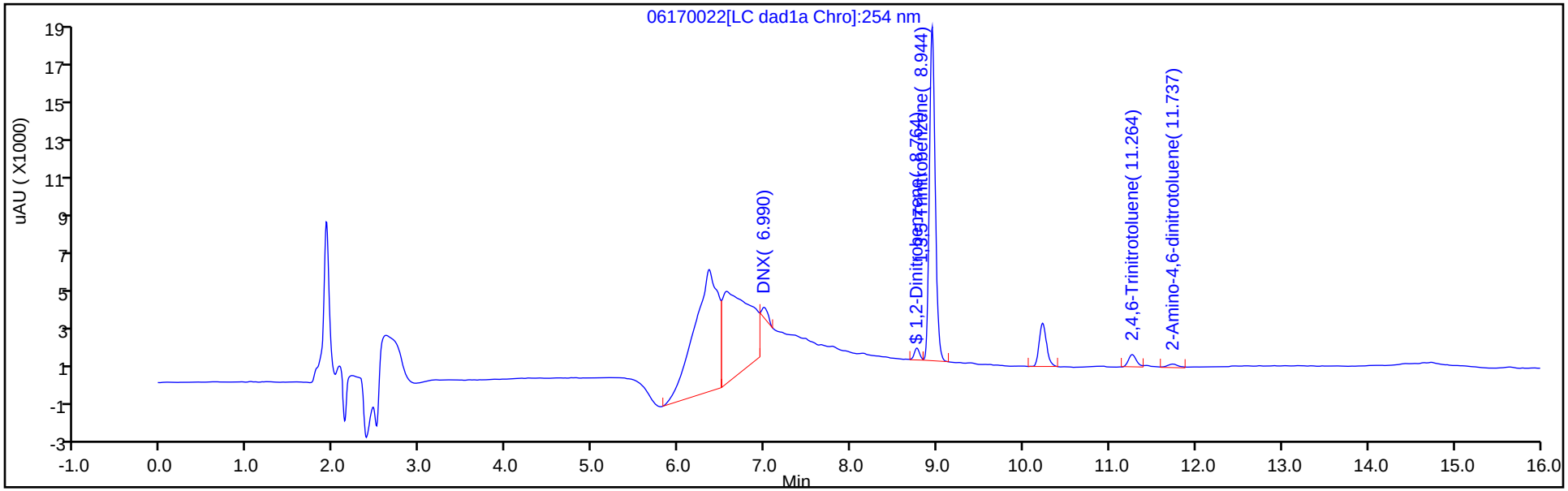
a - User Assigned ID

Report Date: 18-Jun-2020 20:46:06 Chrom Revision: 2.3 17-Jun-2020 19:07:08

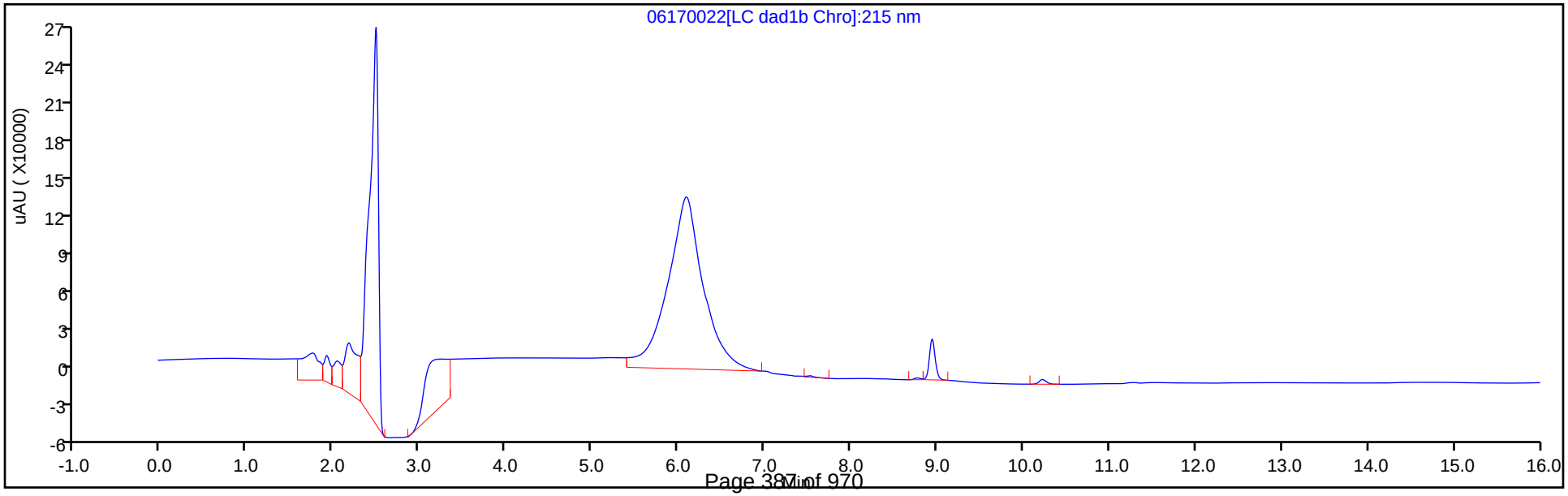
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170022.d				
Injection Date:	18-Jun-2020 00:34:42	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-4-A	Lab Sample ID:		Worklist Smp#:	22
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	22
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\20200617-92523.b\06170022.D				
Lims ID:	280-137006-B-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	18-Jun-2020 00:34:42	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-4-A				
Misc. Info.:	280-0092523-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1013	

First Level Reviewer: zhangji Date: 18-Jun-2020 19:47:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0190	9.49

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

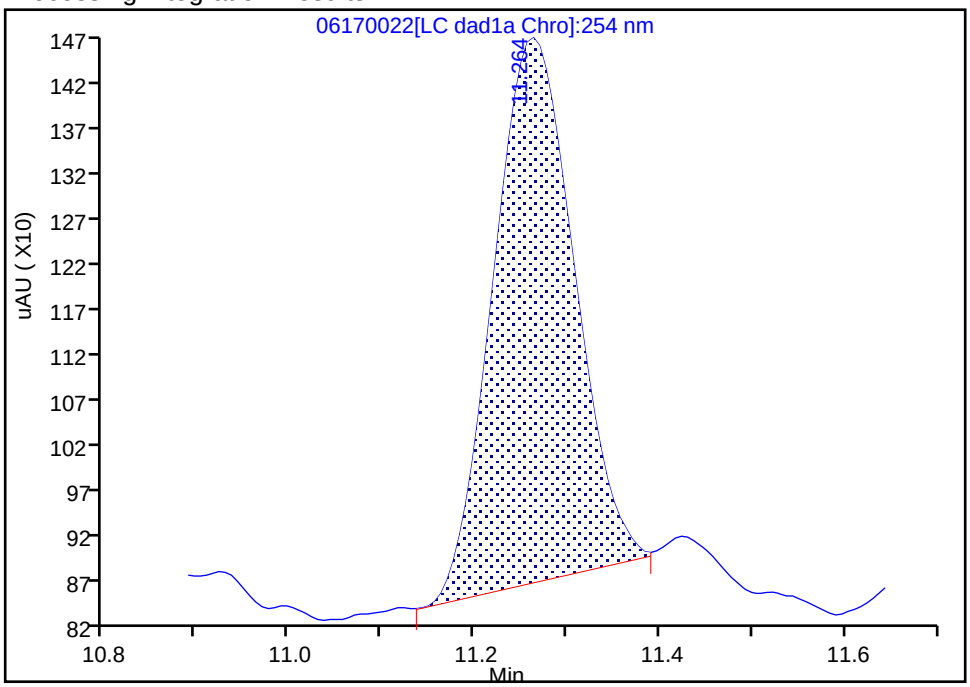
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170022.d				
Injection Date:	18-Jun-2020 00:34:42	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-A	Lab Sample ID:			
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

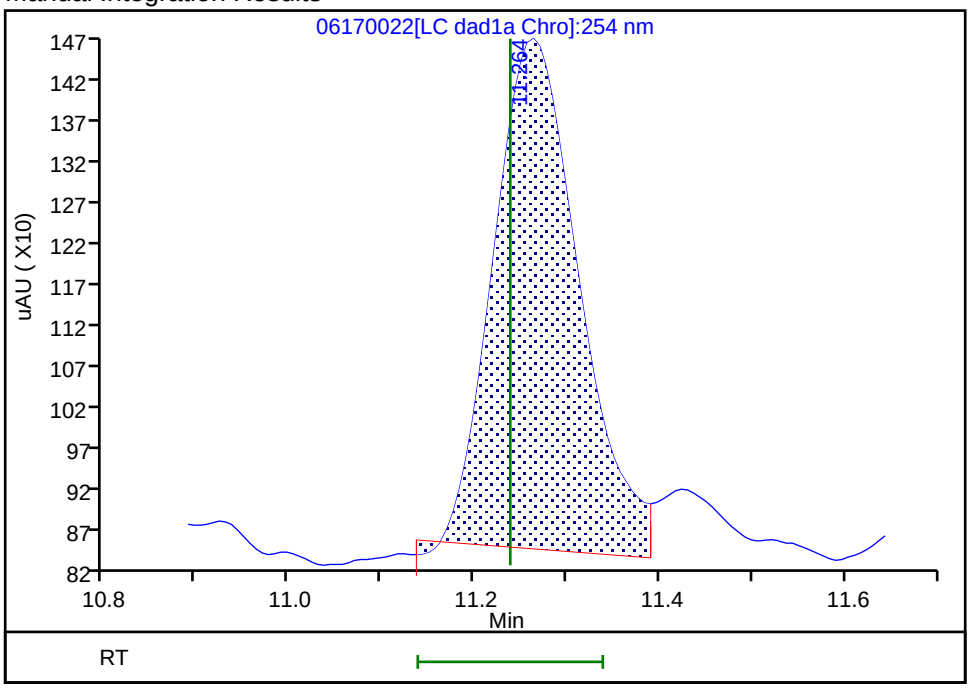
Processing Integration Results

RT: 11.26
Area: 3667
Amount: 0.017973
Amount Units: ug/mL



Manual Integration Results

RT: 11.26
Area: 3994
Amount: 0.019575
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:46:59
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

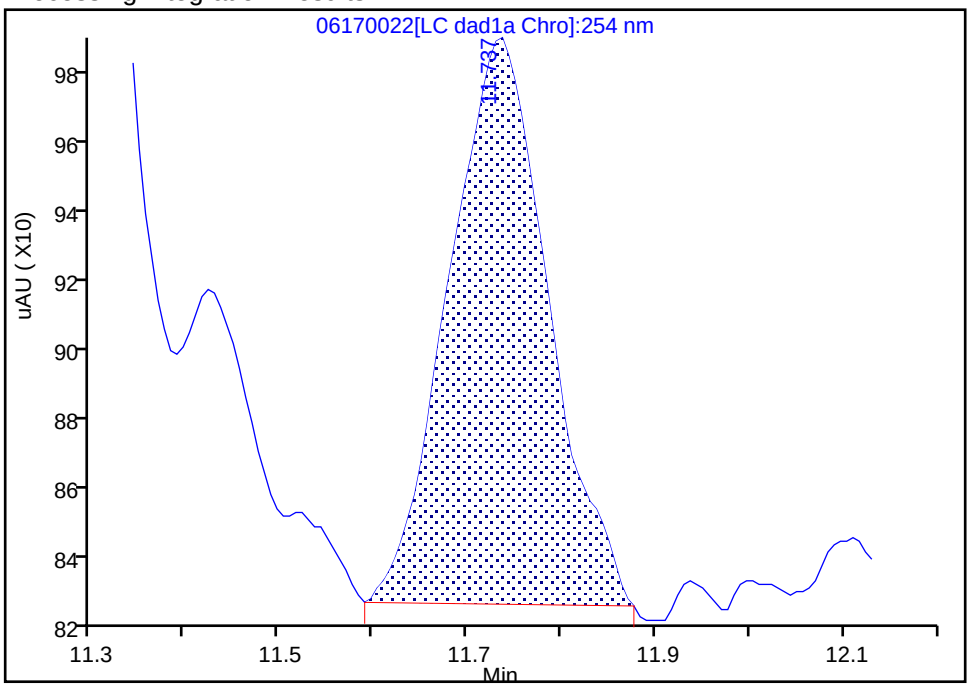
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170022.d				
Injection Date:	18-Jun-2020 00:34:42	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-A	Lab Sample ID:			
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

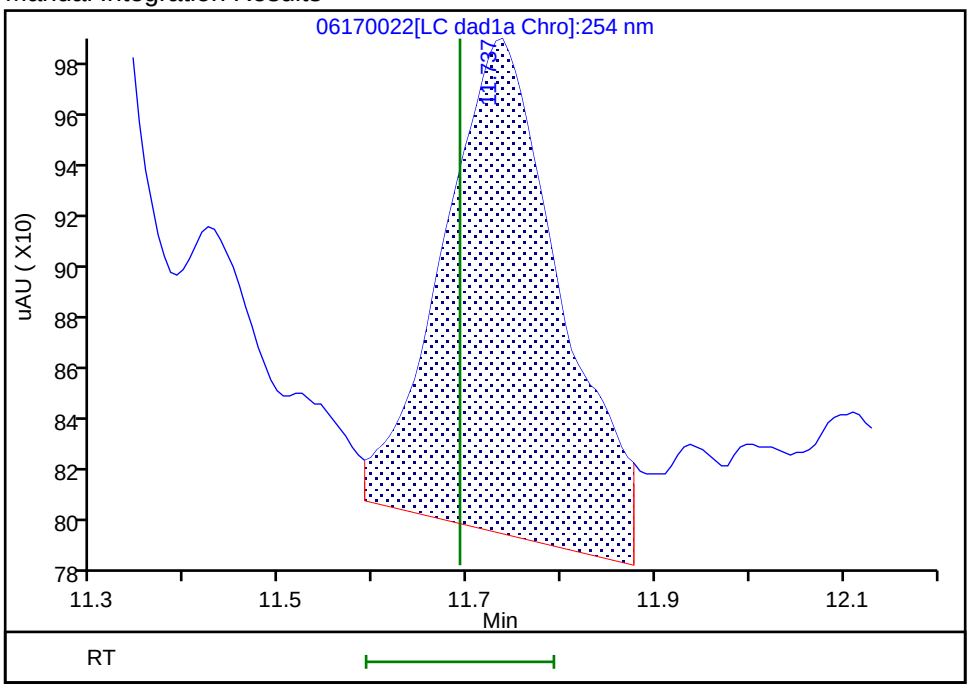
Processing Integration Results

RT: 11.74
Area: 1157
Amount: 0.005705
Amount Units: ug/mL



Manual Integration Results

RT: 11.74
Area: 1613
Amount: 0.007953
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:46:59

Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Client Sample ID: OS001-DP03-45 REDL Lab Sample ID: 280-137006-4 REDL

Matrix: Water Lab File ID: 015-7801.D

Analysis Method: 8330A Date Collected: 05/26/2020 15:45

Extraction Method: 3535 Date Extracted: 06/16/2020 10:10

Sample wt/vol: 472.1(mL) Date Analyzed: 06/19/2020 12:30

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 499350 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\015-7801.D
Lims ID: 280-137006-B-4-A
Client ID: OS001-DP03-45
Sample Type: Client
Inject. Date: 19-Jun-2020 12:30:20 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137006-B-4-A
Misc. Info.: 280-0092563-015
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 19-Jun-2020 20:26:00 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1007

First Level Reviewer: zhangji Date: 19-Jun-2020 16:39:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1		4.395			ND	
2 2,4-diamino-6-nitrotoluene	1		4.941			ND	
3 TNX	1		5.509			ND	
4 DNX	1		6.336			ND	U
6 HMX	1		7.155			ND	
7 MNX	1		7.876			ND	
5 2,4,6-Trinitrophenol	1		8.528			ND	
8 RDX	1		9.368			ND	
9 Nitrobenzene	1		12.261			ND	
$ 10 1,2-Dinitrobenzene	1	13.266	13.268	-0.002	7115	0.0190	
11 3,5-Dinitroaniline	1	15.206	15.208	-0.002	32563	0.0614	
12 1,3-Dinitrobenzene	1		15.794			ND	
13 Nitroglycerin	2		16.021			ND	
14 o-Nitrotoluene	1		16.721			ND	U
15 p-Nitrotoluene	1		17.008			ND	U
16 4-Amino-2,6-dinitrotoluene	1		17.454			ND	U
17 m-Nitrotoluene	1		17.934			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.426	18.394	0.032	2262	0.004862	
19 1,3,5-Trinitrobenzene	1	19.112	19.121	-0.009	156503	0.3313	
20 2,6-Dinitrotoluene	1		20.048			ND	
21 2,4-Dinitrotoluene	1		20.555			ND	
22 Tetryl	1		23.861			ND	
23 2,4,6-Trinitrotoluene	1	24.886	24.875	0.011	5319	0.005381	7M
24 PETN	2		25.408			ND	
25 Ammonium Picrate	1		0.000			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

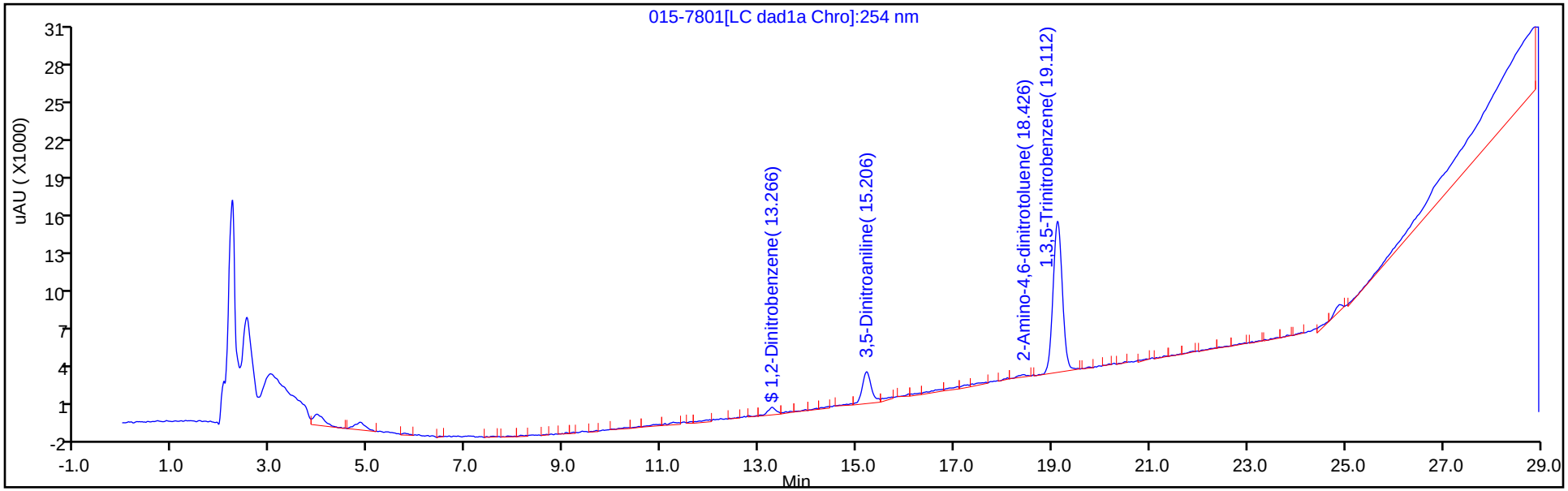
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 19-Jun-2020 20:26:05 Chrom Revision: 2.3 17-Jun-2020 19:07:08

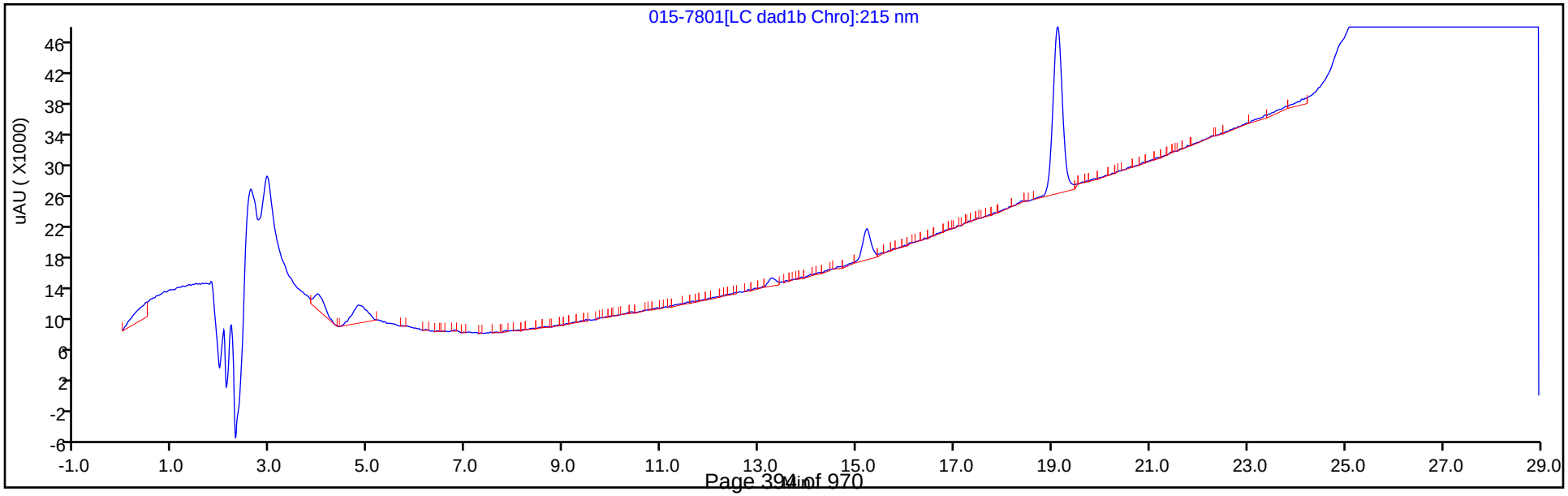
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\015-7801.d				
Injection Date:	19-Jun-2020 12:30:20	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4	Worklist Smp#:	15
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	15
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\015-7801.D				
Lims ID:	280-137006-B-4-A				
Client ID:	OS001-DP03-45				
Sample Type:	Client				
Inject. Date:	19-Jun-2020 12:30:20	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-4-A				
Misc. Info.:	280-0092563-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	19-Jun-2020 20:26:00	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1007				

First Level Reviewer: zhangji Date: 19-Jun-2020 16:39:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0190	9.52

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

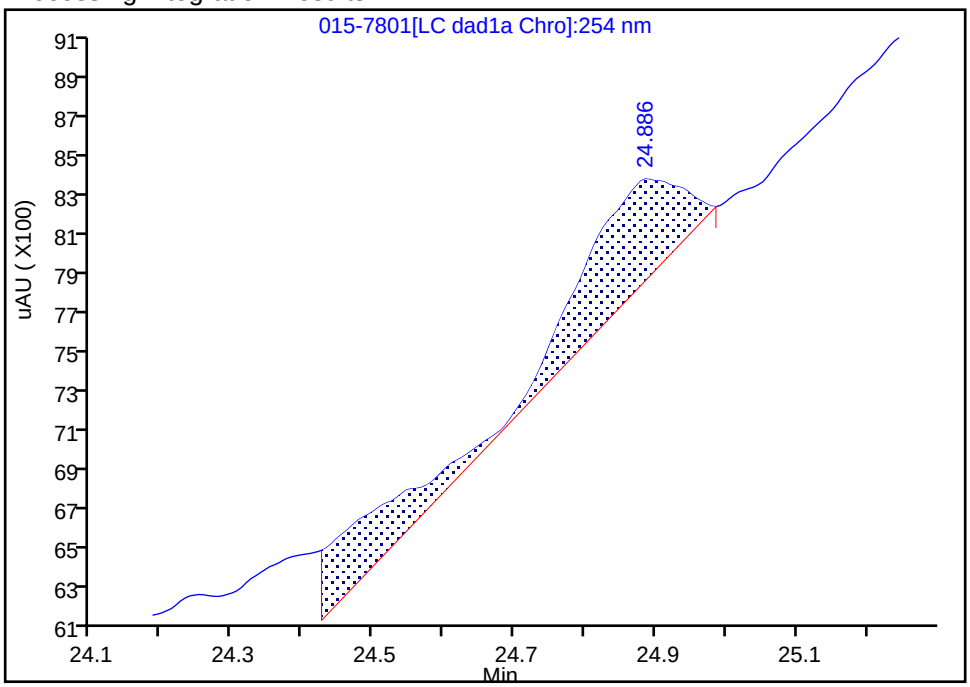
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\015-7801.d				
Injection Date:	19-Jun-2020 12:30:20	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

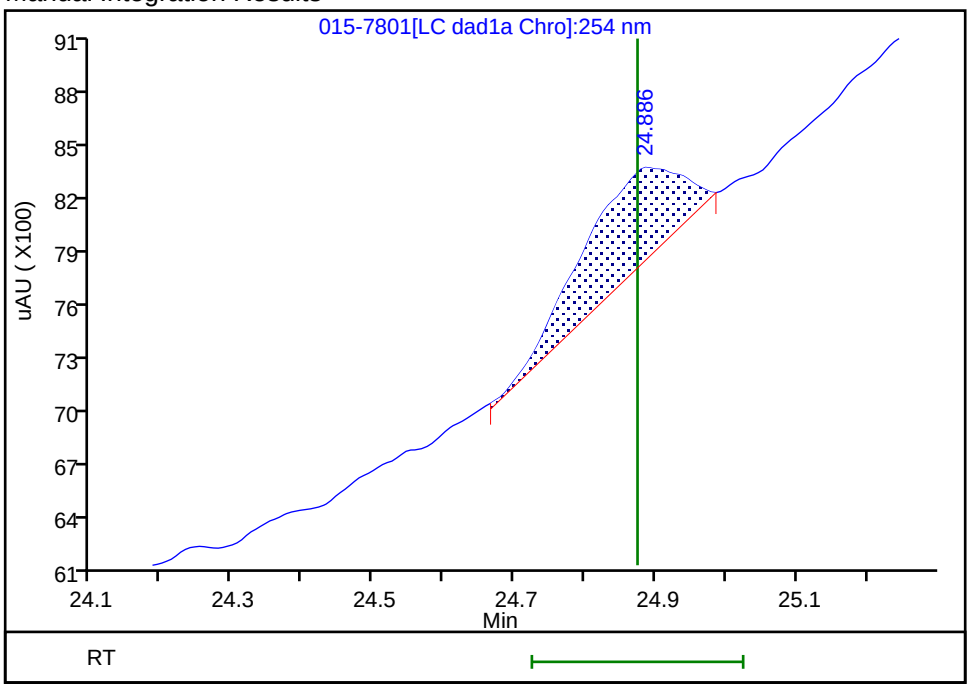
Processing Integration Results

RT: 24.89
Area: 8080
Amount: 0.012256
Amount Units: ug/ml



Manual Integration Results

RT: 24.89
Area: 5319
Amount: 0.005381
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:39:50

Audit Action: Split an Integrated Peak Audit Reason: Baseline

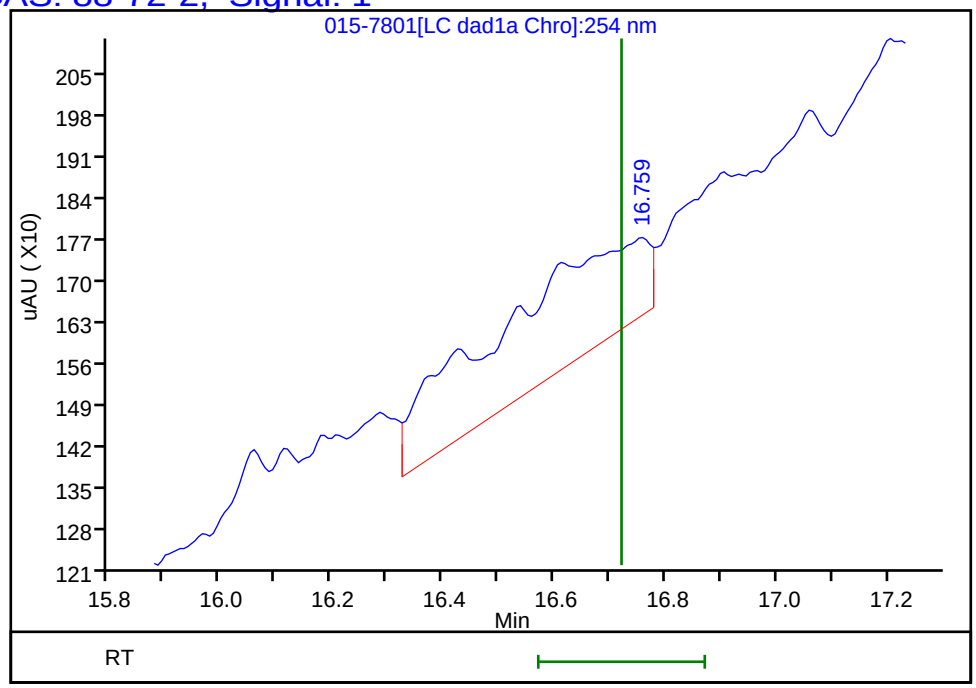
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\015-7801.d				
Injection Date:	19-Jun-2020 12:30:20	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.76
Response: 3710
Amount: 0.013592



Reviewer: zhangji, 19-Jun-2020 16:39:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

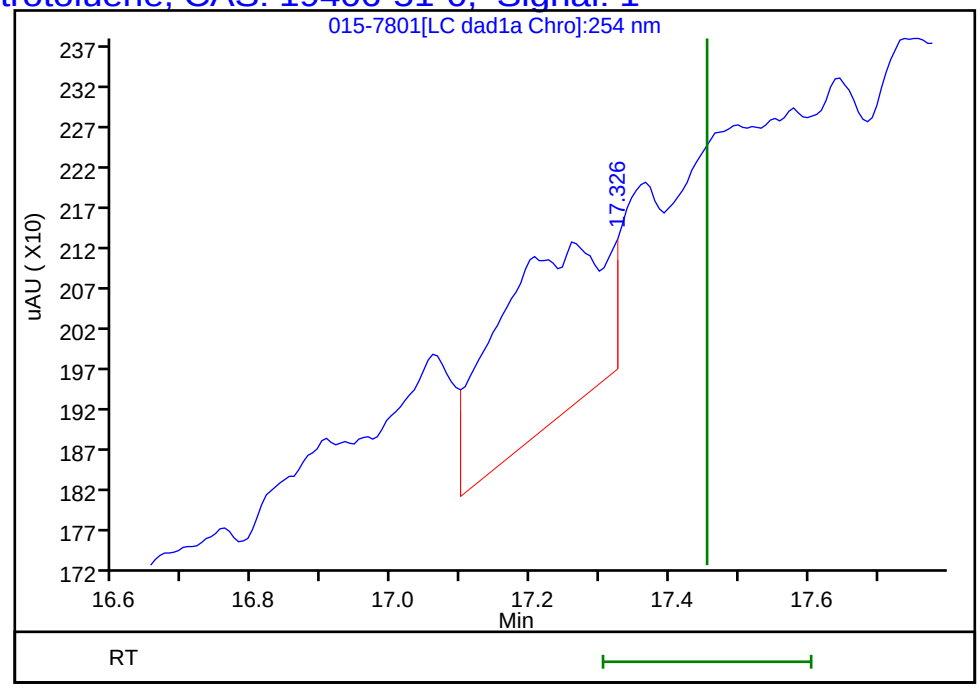
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\015-7801.d				
Injection Date:	19-Jun-2020 12:30:20	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 17.33
Response: 2418
Amount: 0.007004



Reviewer: zhangji, 19-Jun-2020 16:39:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

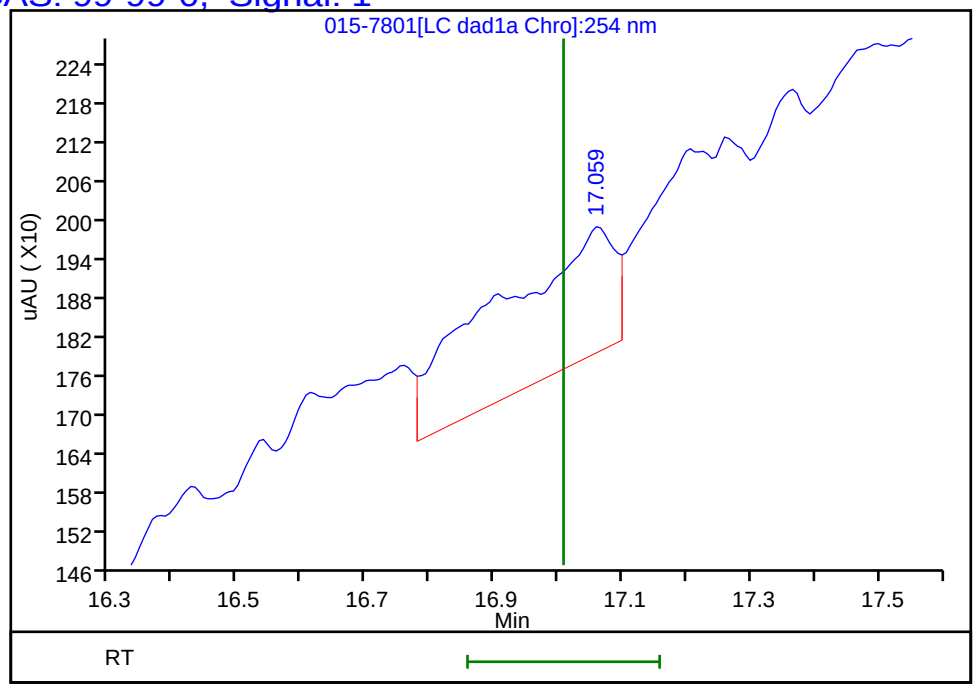
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\015-7801.d				
Injection Date:	19-Jun-2020 12:30:20	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137006-B-4-A	Lab Sample ID:	280-137006-4		
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 17.06
Response: 2860
Amount: 0.011873



Reviewer: zhangji, 19-Jun-2020 16:39:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Picric acid		6.322	6.331	6.308	6.300	6.267	6.235	6.195	+++++		6.150 - 6.450	6.280
HMX		6.982	6.984	6.994	6.986	6.987	6.982	6.968	6.916		6.836 - 7.136	6.975
RDX		9.095	9.184	9.181	9.173	9.173	9.162	9.148	9.076		9.023 - 9.323	9.149
Nitrobenzene		12.095	12.110	12.114	12.106	12.107	12.095	12.088	11.995		11.956 - 12.256	12.089
1,3-Dinitrobenzene		15.542	15.544	15.554	15.553	15.553	15.548	15.541	15.469		15.403 - 15.703	15.538
Nitroglycerin		15.855	15.844	15.848	15.853	15.853	15.842	15.848	15.782		15.703 - 16.003	15.841
2-Nitrotoluene		16.515	16.550	16.534	16.533	16.540	16.535	16.535	16.475		16.383 - 16.683	16.527
4-Nitrotoluene		16.795	16.837	16.828	16.820	16.820	16.808	16.815	16.715		16.670 - 16.970	16.805
4-Amino-2,6-dinitrotoluene		17.155	17.157	17.148	17.146	17.153	17.142	17.141	17.069		16.996 - 17.296	17.139
3-Nitrotoluene		17.748	17.724	17.741	17.753	17.747	17.742	17.741	17.782		17.603 - 17.903	17.747
2-Amino-4,6-dinitrotoluene		18.048	18.030	18.054	18.046	18.040	18.035	18.028	17.935		17.896 - 18.196	18.027
1,3,5-Trinitrobenzene		18.855	18.864	18.881	18.886	18.887	18.875	18.881	18.829		18.736 - 19.036	18.870
2,6-Dinitrotoluene	+++++	19.828	19.817	19.794	19.806	19.807	19.795	19.801	19.742		19.656 - 19.956	19.799
2,4-Dinitrotoluene	20.295	20.295	20.290	20.288	20.293	20.293	20.288	20.288	20.235		20.143 - 20.443	20.285
Tetryl		23.529	23.557	23.548	23.553	23.553	23.542	23.555	23.516		23.403 - 23.703	23.544
2,4,6-Trinitrotoluene		24.682	24.637	24.654	24.653	24.647	24.642	24.648	24.616		24.503 - 24.803	24.647
PETN		+++++	25.277	25.281	25.280	25.280	25.275	25.281	25.269		25.130 - 25.430	25.278
1,2-Dinitrobenzene		13.022	13.037	13.048	13.040	13.040	13.028	13.028	12.949		12.890 - 13.190	13.024

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.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								
Picric acid	194456 +++++	227320 170053	189240 169399	231700 174504	Ave		193810.153				13.5		20.0			
HMX	216260 175837	400720 186210	252920 179567	242940 183992	Lin2	5323.97093	177012.867							0.9900		0.9900
RDX	250504 220101	251440 221363	302380 217280	272330 219481	Ave		244359.838				12.7		20.0			
Nitrobenzene	422566 420057	411355 413613	566215 420302	425090 434621	Ave		439227.211				11.8		20.0			
1,3-Dinitrobenzene	687780 651230	649900 645107	741737 661018	688743 667994	Ave		674188.610				4.7		20.0			
Nitroglycerin	132151 128856	106184 127479	128084 121758	141489 128426	Ave		126803.331				7.9		20.0			
2-Nitrotoluene	252584 263350	272480 263733	320060 259206	290620 261684	Ave		272964.527				8.1		20.0			
4-Nitrotoluene	237944 205745	214531 233965	309222 235547	259042 231055	Ave		240881.296				13.2		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.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

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	316356 338348	374386 325764	441918 319452	324156 321498	Ave		345234.619				12.5		20.0			
3-Nitrotoluene	284364 280237	276523 288039	385215 286309	305554 280373	Ave		298326.800				12.1		20.0			
2-Amino-4,6-dinitrotoluene	449641 452344	413386 446609	577331 454954	473367 454056	Ave		465211.017				10.4		20.0			
1,3,5-Trinitrobenzene	473888 459025	432016 445838	531916 461195	509261 466466	Ave		472450.766				7.0		20.0			
2,6-Dinitrotoluene	+++++ 296084 293622	462869 294056	380618 294513	345209 297272	Lin2	4435.95604	289218.236							0.9990		0.9900
2,4-Dinitrotoluene	636653 610554 606816	669761 610082	743068 605778	672311 605997	Ave		640113.339				7.4		20.0			
Tetryl	368208 349575	394172 348927	403234 350489	384701 350116	Ave		368677.570				6.1		20.0			
2,4,6-Trinitrotoluene	399076 406271	460040 393653	565060 401302	430359 406644	Lin1	3158.03416	401610.023							0.9990		0.9900
PETN	135296 128081	+++++ 139434	204240 136840	132172 136576	Lin1	27366.0232	129287.517							0.9980		0.9900
1,2-Dinitrobenzene	249500 288347	337440 268080	374880 263961	306830 274673	Lin1	1839.02265	277228.024							0.9970		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Picric acid	Ave	68021	5683 118579	9462 174504	23170 +++++	48614	0.400	0.0250 0.700	0.0500 1.00	0.100 +++++	0.250
HMX	Lin2	74484	10018 125697	12646 183992	24294 439592	54065	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	88545	6286 152096	15119 219481	27233 550253	62626	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	166107	10325 295388	28424 436359	42679 1054344	106064	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Ave	258559	16280 463638	37161 669330	69012 1631331	172289	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Ave	509915	26546 852305	64042 1284256	141489 3221406	330378	4.00	0.250 7.00	0.500 10.0	1.00 25.0	2.50
2-Nitrotoluene	Ave	105493	6812 181444	16003 261684	29062 658375	63146	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Ave	93773	5374 165213	15492 231517	25956 515391	59605	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Ave	130436	9369 223840	22118 321819	32448 846716	79168	0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
3-Nitrotoluene	Ave	115331	6920 200617	19280 280653	30586 701292	71162	0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	179358	10376 319742	28982 455872	47526 1135384	112860	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
1,3,5-Trinitrobenzene	Ave	178692	10822 323482	26649 467399	51028 1149858	118709	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Lin2	+++++ 118093	11618 206984	19107 298461	34659 736990	74317	+++++ 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,4-Dinitrotoluene	Ave	7990 245009	16811 425741	37302 608421	67500 1523108	153249	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Tetryl	Ave	139850	9874 245833	20202 350816	38547 875686	92236	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
2,4,6-Trinitrotoluene	Lin1	158091	11547 282035	28366 408271	43208 1019741	100168	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
PETN	Lin1	557734	+++++ 957879	102120 1365764	132172 3202028	338241	4.00	+++++ 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Lin1	107232	8436 184773	18744 274673	30683 720867	62375	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140007.D
Lims ID: IC FULL 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 14-May-2020 16:16:43 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 9
Misc. Info.: 280-0091518-007
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:54 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 14-May-2020 17:09:51

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	4.302	4.366	-0.064	946682	2.50	2.21	M
2 2,4-diamino-6-nitrotoluene	1	4.769	4.880	-0.111	410736	2.50	1.70	M
5 2,4,6-Trinitrophenol	1	6.096	6.300	-0.204	359637	2.50	1.86	
6 HMX	1	6.916	6.986	-0.070	439592	2.50	2.45	
8 RDX	1	9.076	9.173	-0.097	550253	2.50	2.25	
9 Nitrobenzene	1	11.995	12.106	-0.111	1054344	2.51	2.40	
$ 10 1,2-Dinitrobenzene	1	12.949	13.040	-0.091	720867	2.50	2.59	
11 3,5-Dinitroaniline	1	14.795	14.886	-0.091	1218279	2.50	2.51	a
12 1,3-Dinitrobenzene	1	15.469	15.553	-0.084	1631331	2.51	2.42	
13 Nitroglycerin	2	15.782	15.853	-0.071	3221406	25.0	25.4	
14 o-Nitrotoluene	1	16.475	16.533	-0.058	658375	2.50	2.41	a
15 p-Nitrotoluene	1	16.715	16.820	-0.105	515391	2.51	2.14	a
16 4-Amino-2,6-dinitrotoluene	1	17.069	17.146	-0.077	846716	2.50	2.45	a
17 m-Nitrotoluene	1	17.782	17.753	0.029	701292	2.50	2.35	Ma
18 2-Amino-4,6-dinitrotoluene	1	17.935	18.046	-0.111	1135384	2.51	2.44	Ma
19 1,3,5-Trinitrobenzene	1	18.829	18.886	-0.057	1149858	2.51	2.43	a
20 2,6-Dinitrotoluene	1	19.742	19.806	-0.064	736990	2.51	2.53	a
21 2,4-Dinitrotoluene	1	20.235	20.293	-0.058	1523108	2.51	2.38	a
22 Tetryl	1	23.516	23.553	-0.037	875686	2.51	2.38	a
23 2,4,6-Trinitrotoluene	1	24.616	24.653	-0.037	1019741	2.51	2.53	a
24 PETN	2	25.269	25.280	-0.011	3202028	25.0	24.6	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

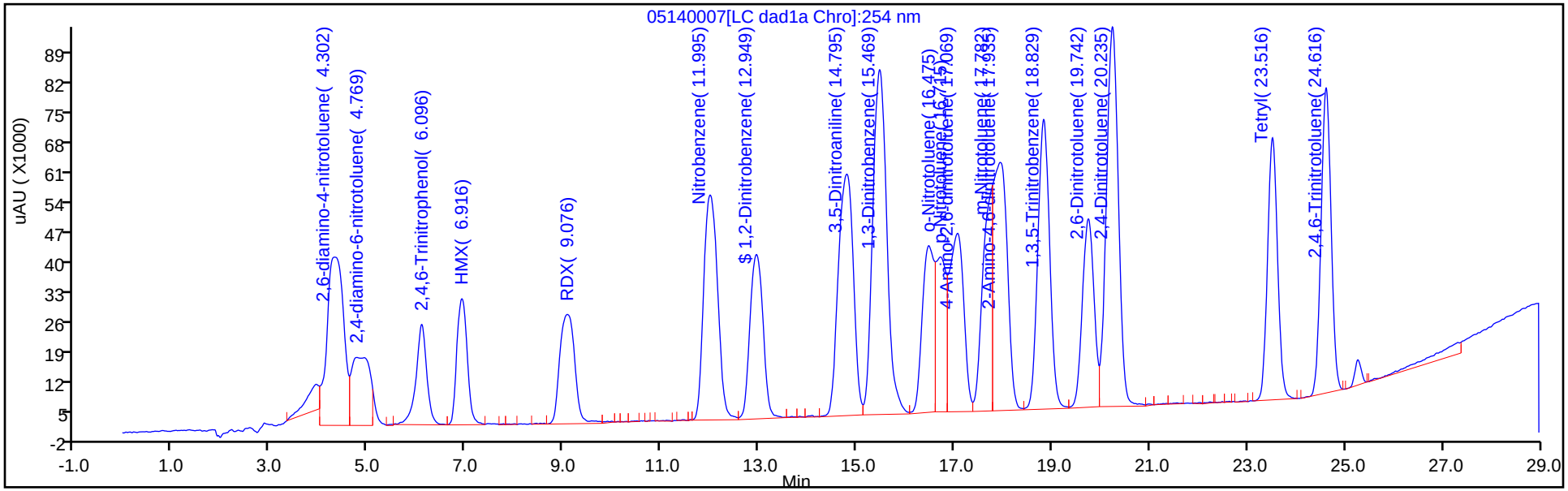
8330IntermStk_00064	Amount Added: 250.00	Units: uL
8330_ADDs_00026	Amount Added: 125.00	Units: uL

Report Date: 15-May-2020 12:00:54 Chrom Revision: 2.3 05-May-2020 17:48:18

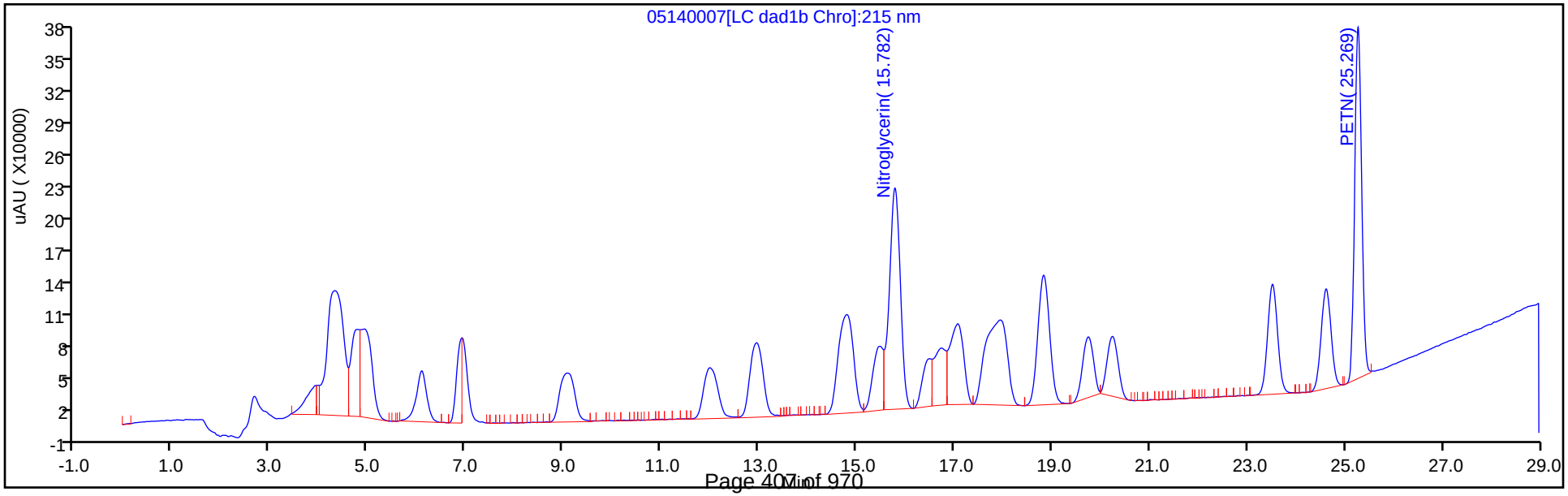
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 9			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

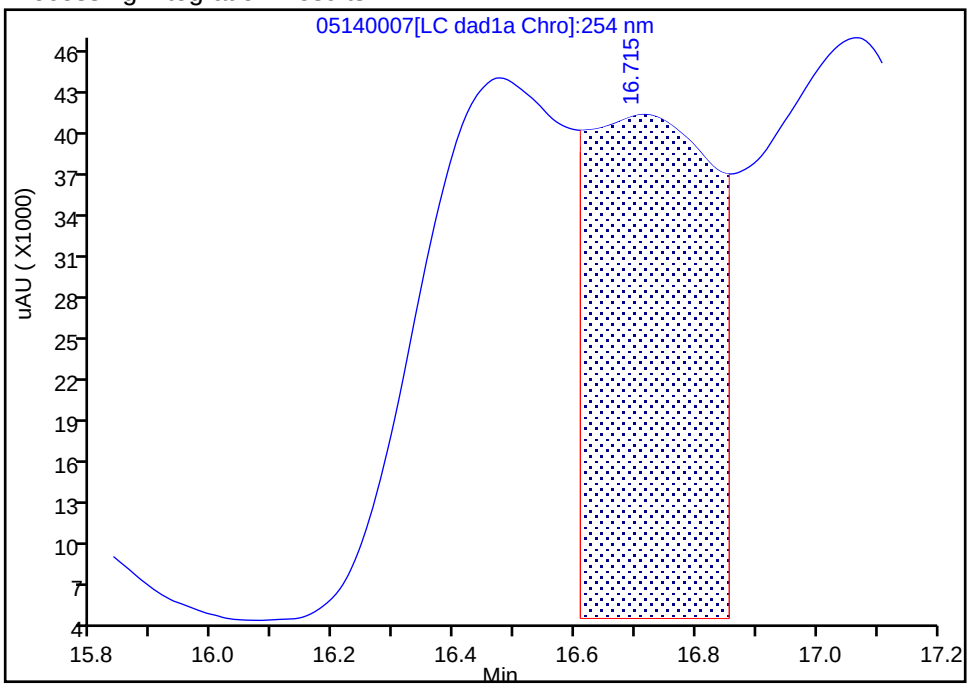
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

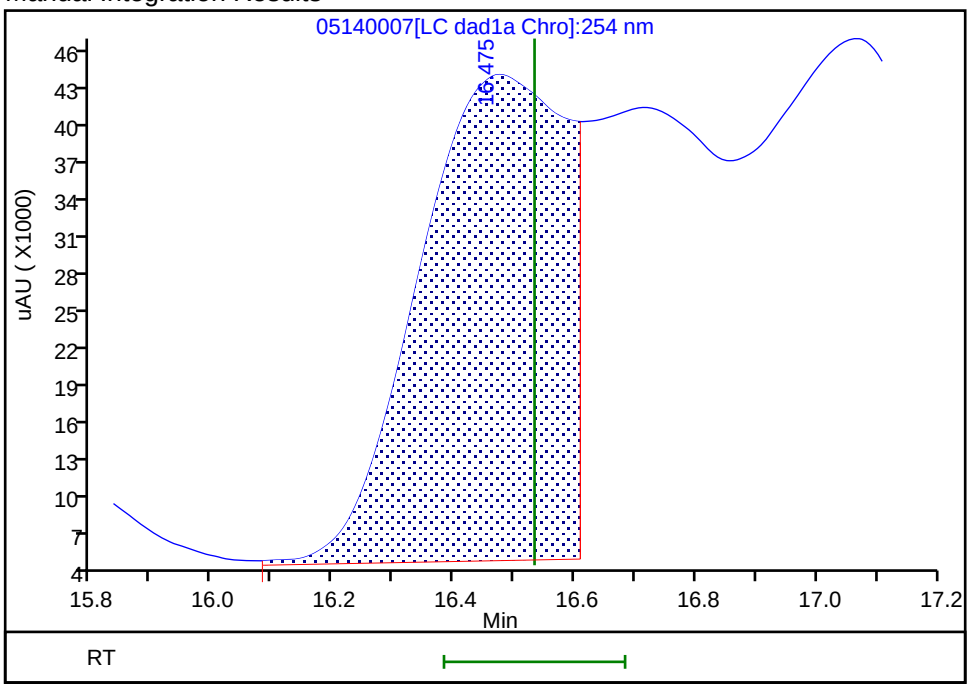
Processing Integration Results

RT: 16.72
Area: 515391
Amount: 1.955872
Amount Units: ug/ml



Manual Integration Results

RT: 16.48
Area: 658375
Amount: 2.411943
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:09:15
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

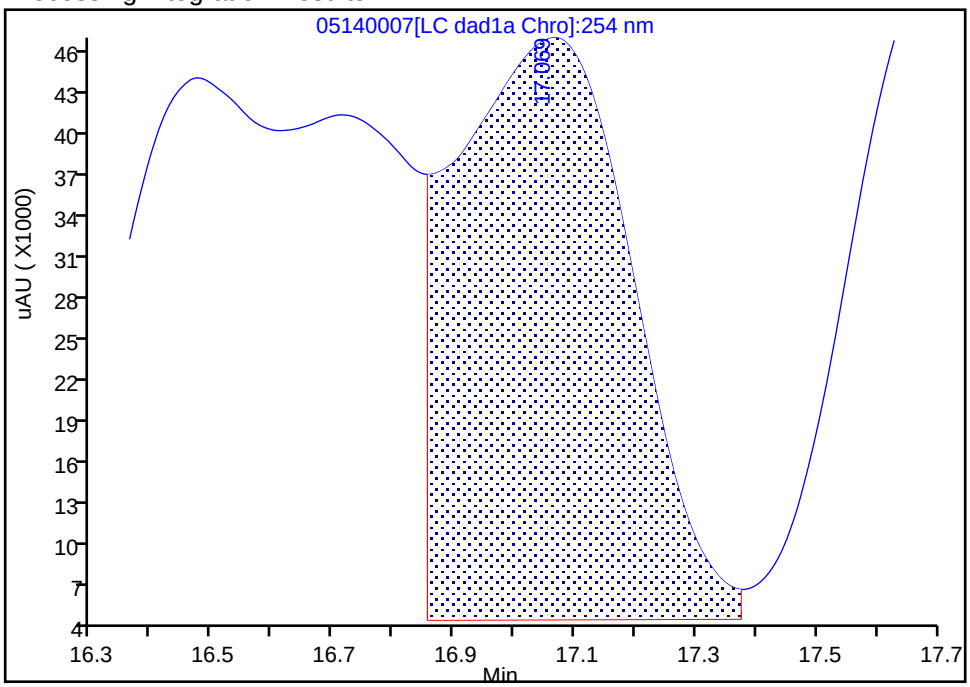
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

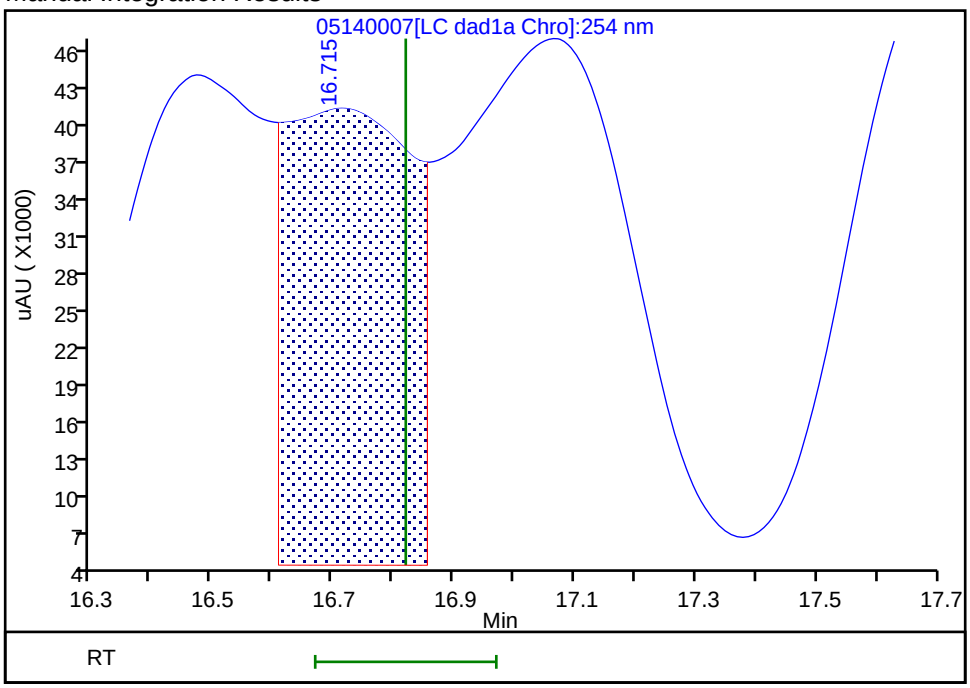
Processing Integration Results

RT: 17.07
Area: 846716
Amount: 4.099164
Amount Units: ug/ml



Manual Integration Results

RT: 16.72
Area: 515391
Amount: 2.139606
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:09:12
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

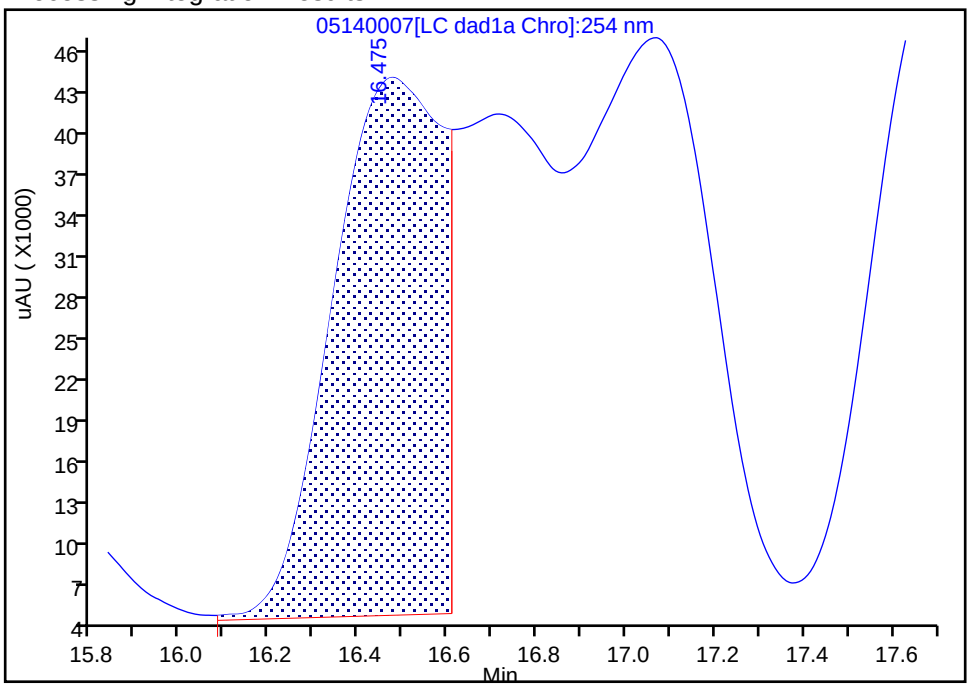
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

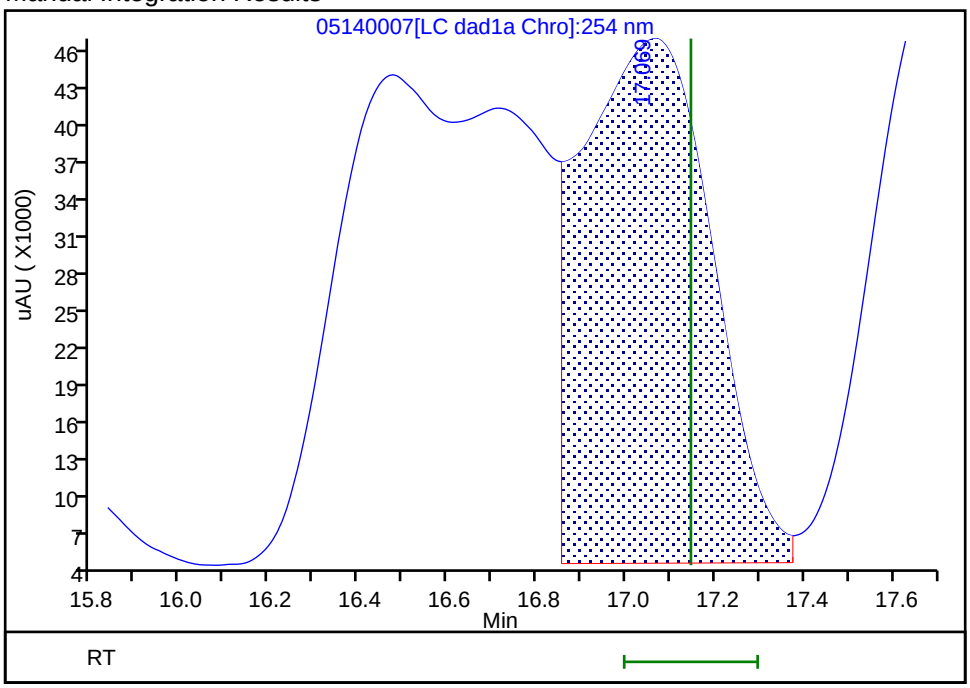
Processing Integration Results

RT: 16.48
Area: 658375
Amount: 2.145710
Amount Units: ug/ml



Manual Integration Results

RT: 17.07
Area: 846716
Amount: 2.452581
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:59
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

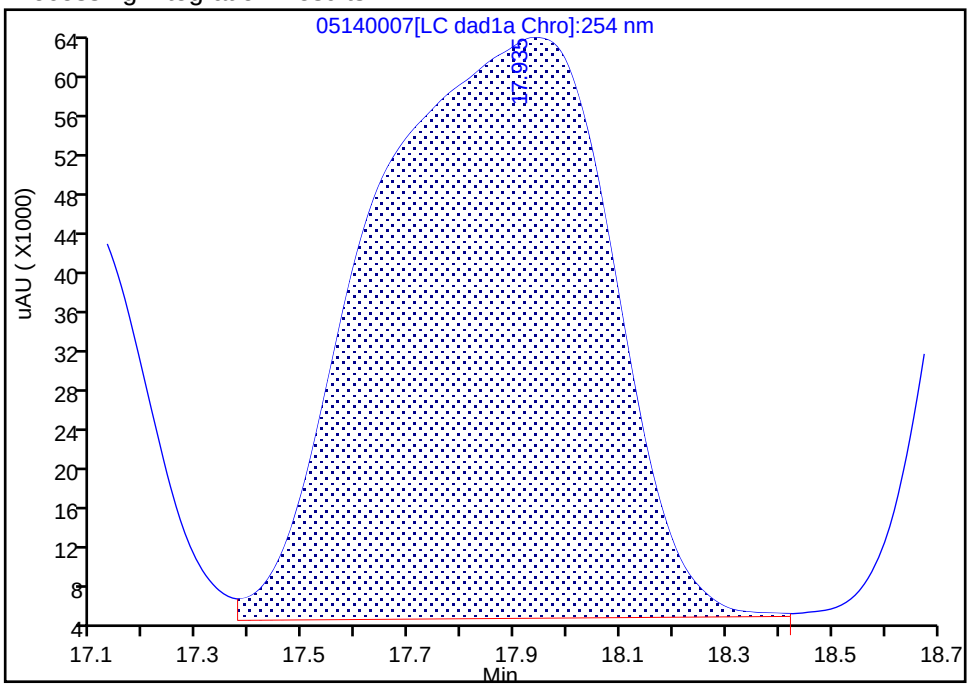
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

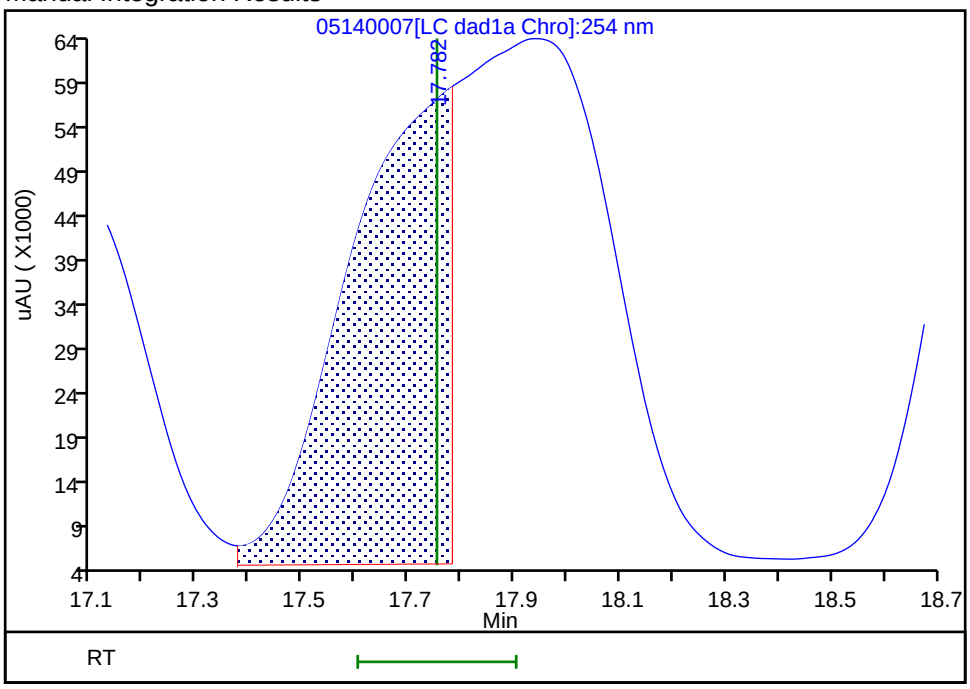
Processing Integration Results

RT: 17.94
Area: 1836650
Amount: 6.513789
Amount Units: ug/ml



Manual Integration Results

RT: 17.78
Area: 701292
Amount: 2.350751
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:45

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

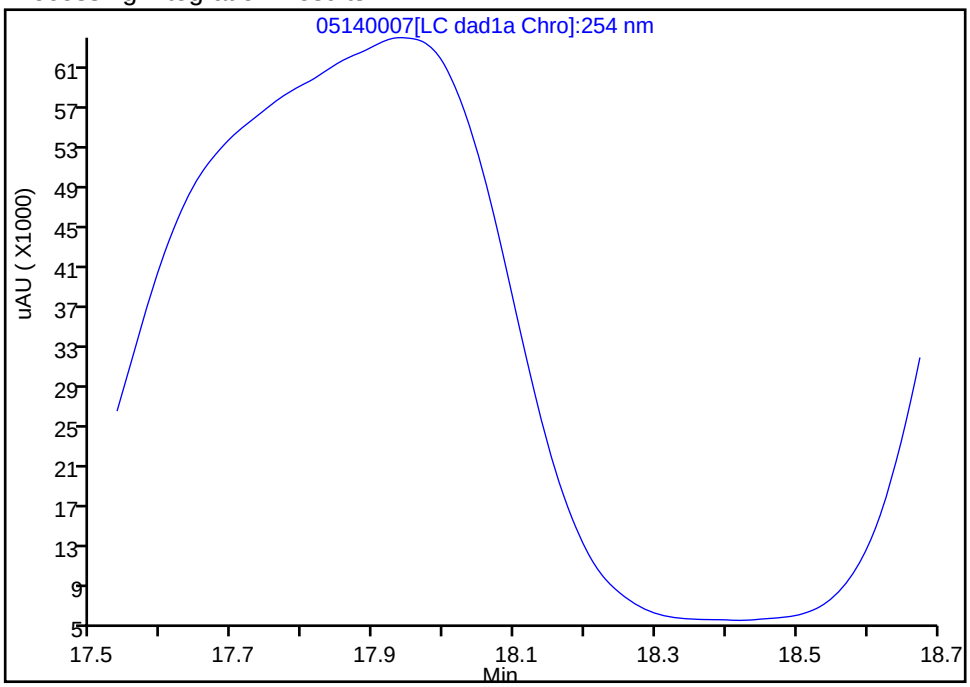
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

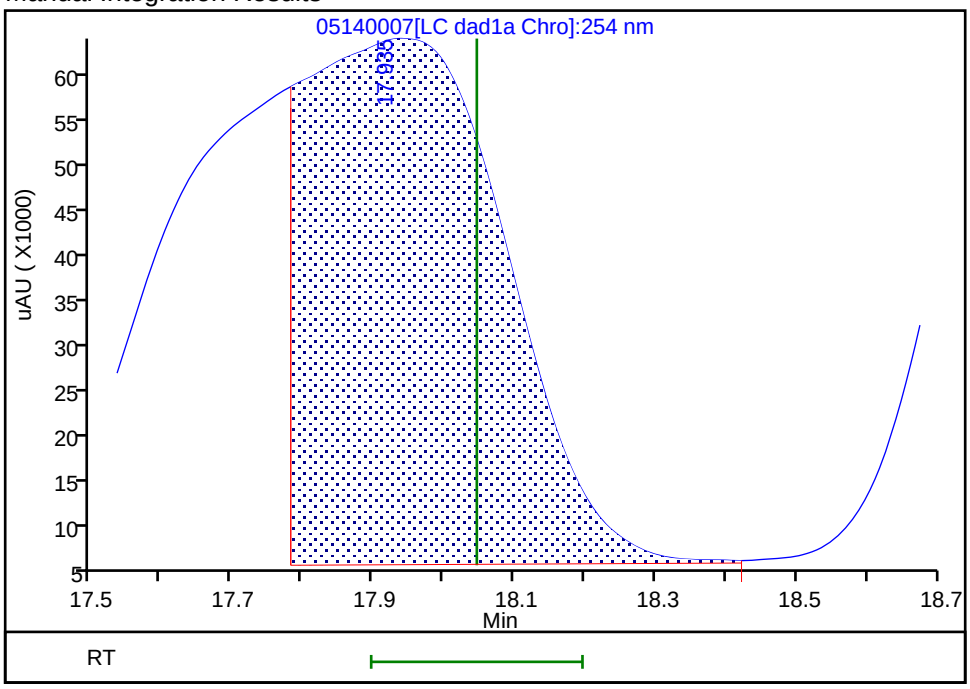
Not Detected
Expected RT: 18.05

Processing Integration Results



Manual Integration Results

RT: 17.94
Area: 1135384
Amount: 2.440578
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:40
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

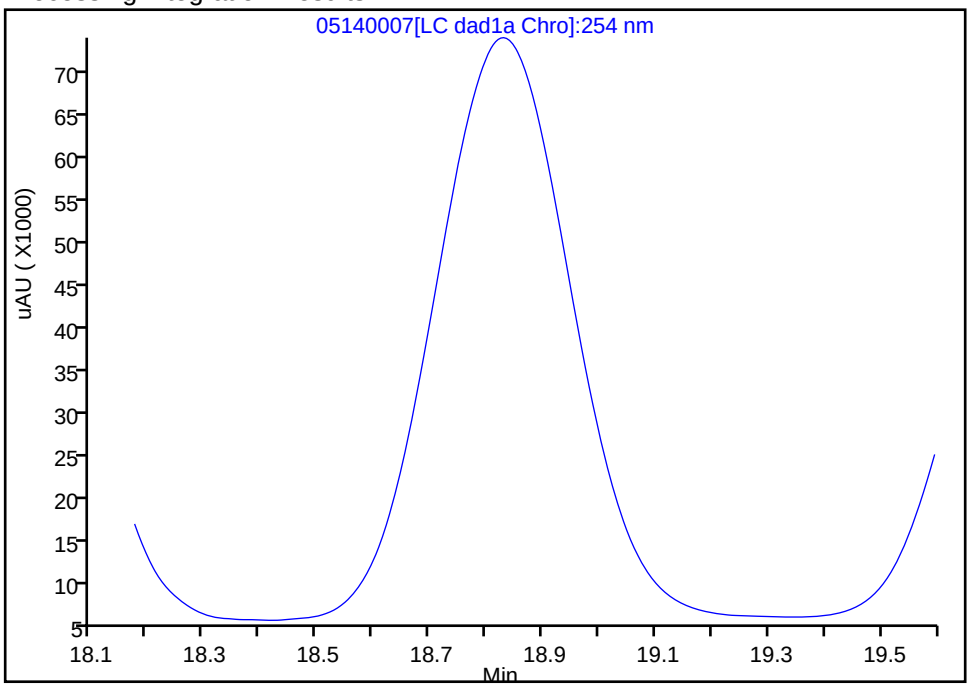
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

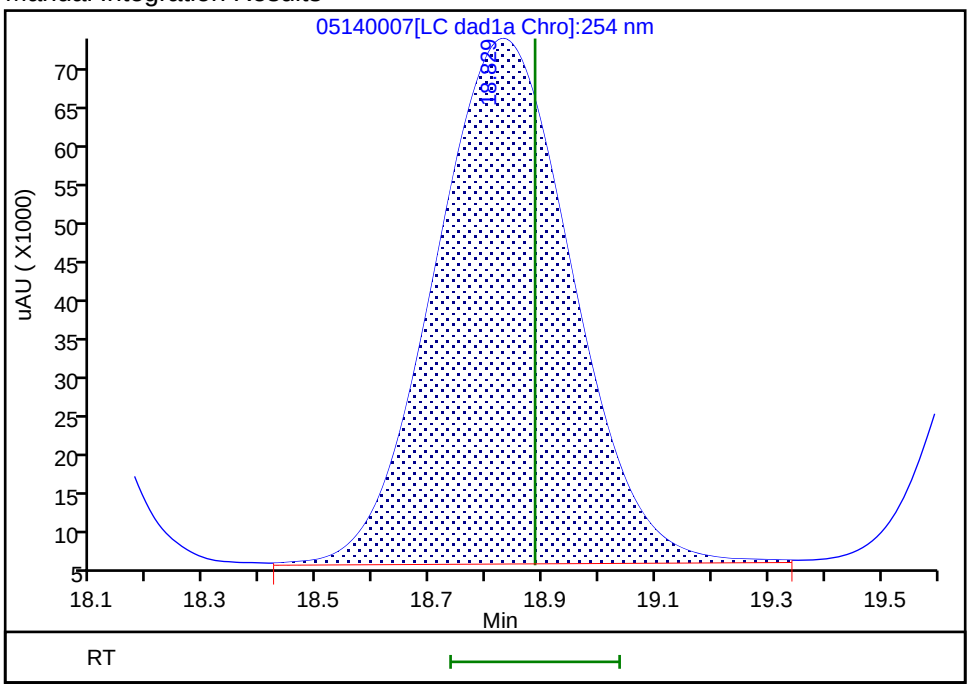
Not Detected
Expected RT: 18.89

Processing Integration Results



Manual Integration Results

RT: 18.83
Area: 1149858
Amount: 2.433816
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:26
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

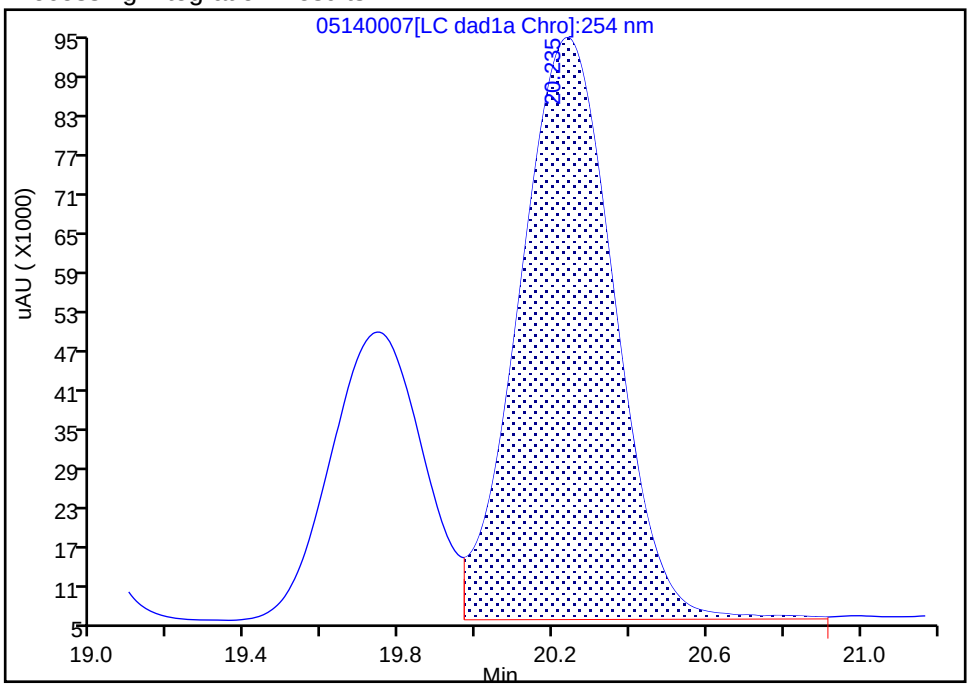
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

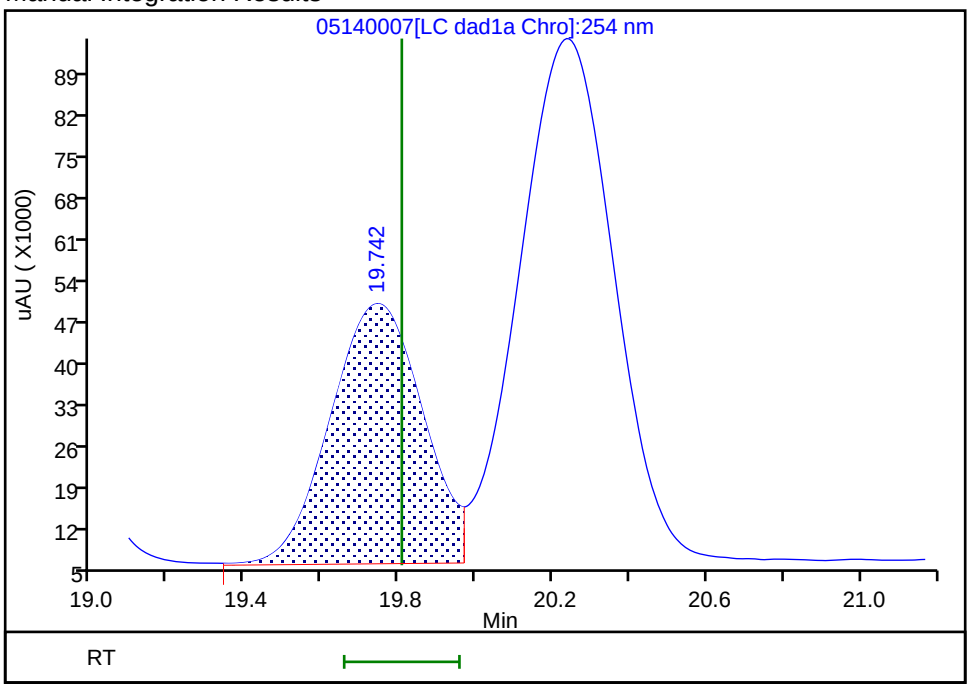
Processing Integration Results

RT: 20.24
Area: 1523108
Amount: 2.510000
Amount Units: ug/ml



Manual Integration Results

RT: 19.74
Area: 736990
Amount: 2.532876
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:23
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

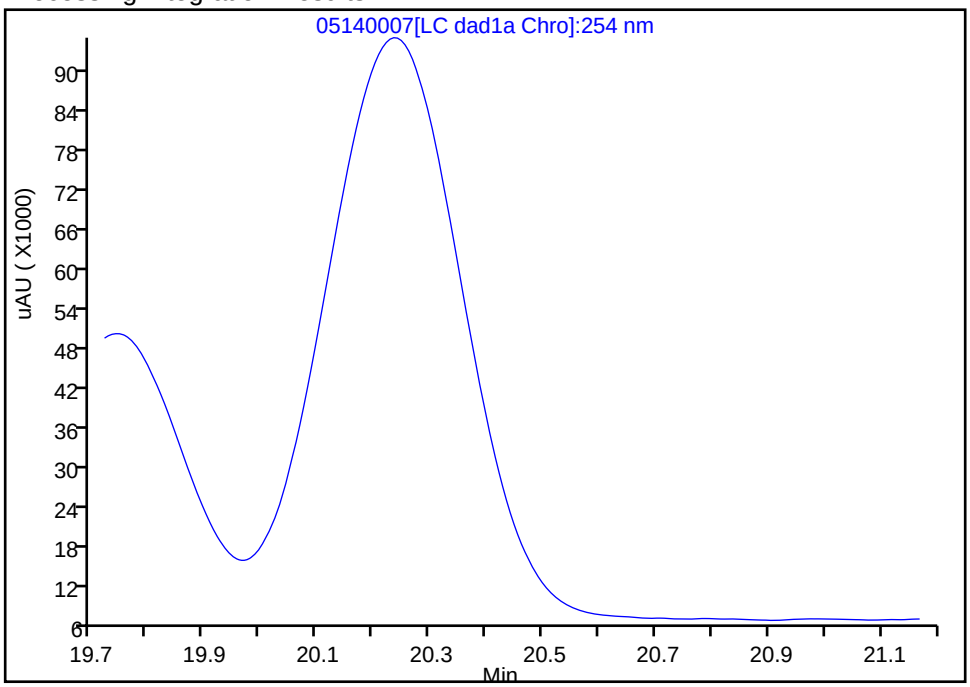
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

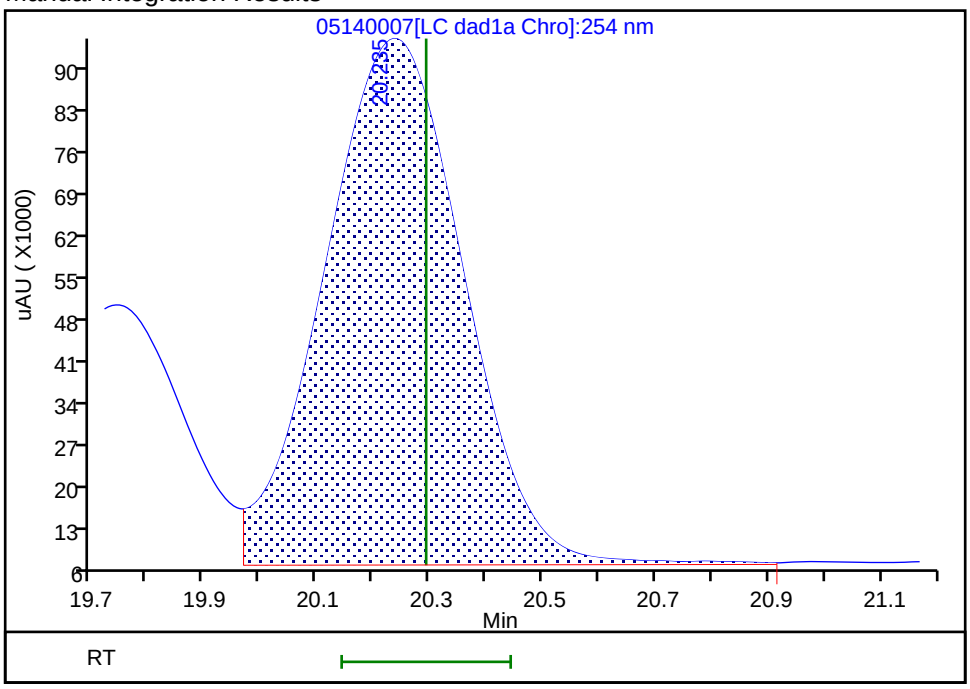
Not Detected
Expected RT: 20.29

Processing Integration Results



Manual Integration Results

RT: 20.24
Area: 1523108
Amount: 2.379435
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:20
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

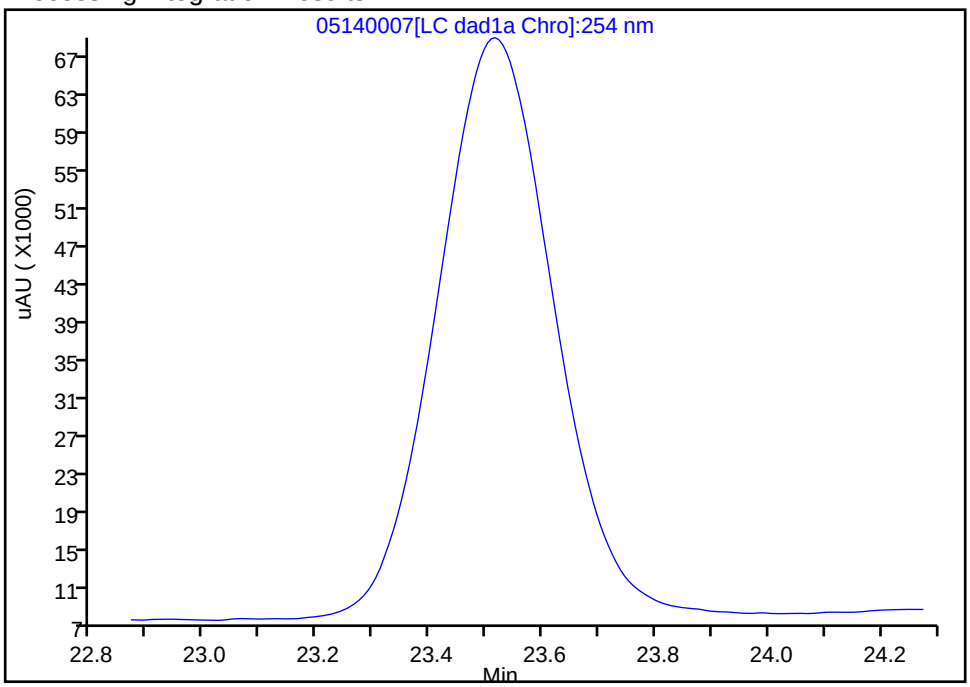
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

22 Tetryl, CAS: 479-45-8

Signal: 1

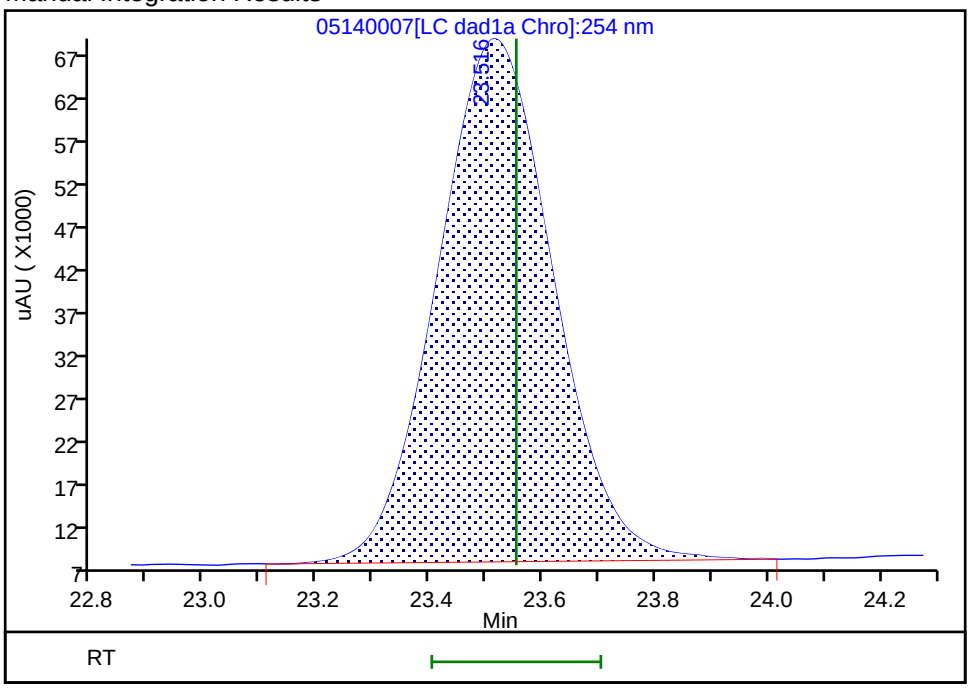
Not Detected
Expected RT: 23.55

Processing Integration Results



RT: 23.52
Area: 875686
Amount: 2.375208
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:11
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

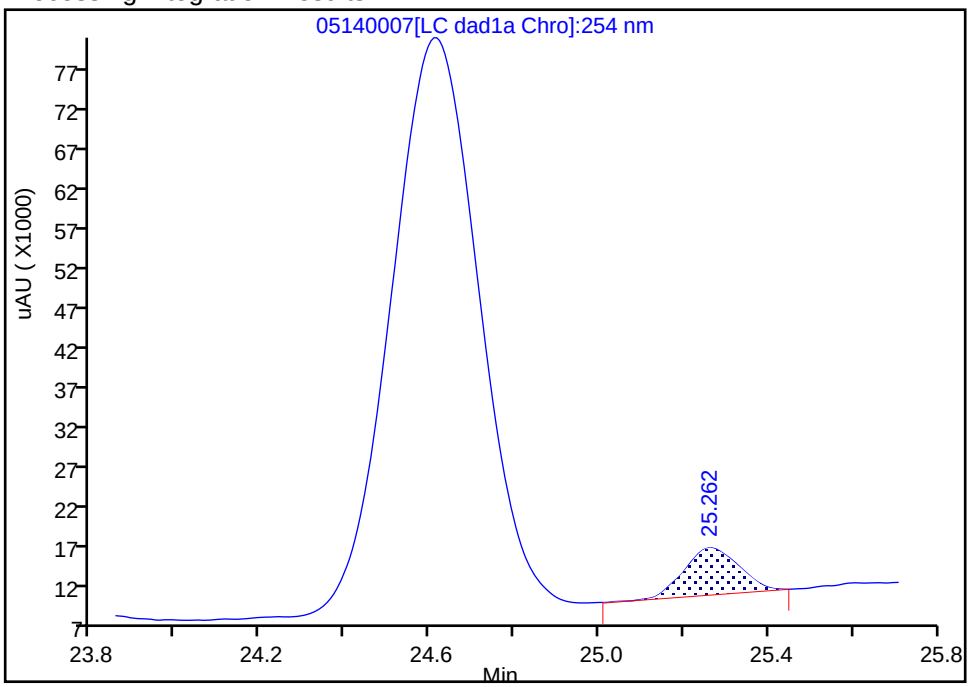
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

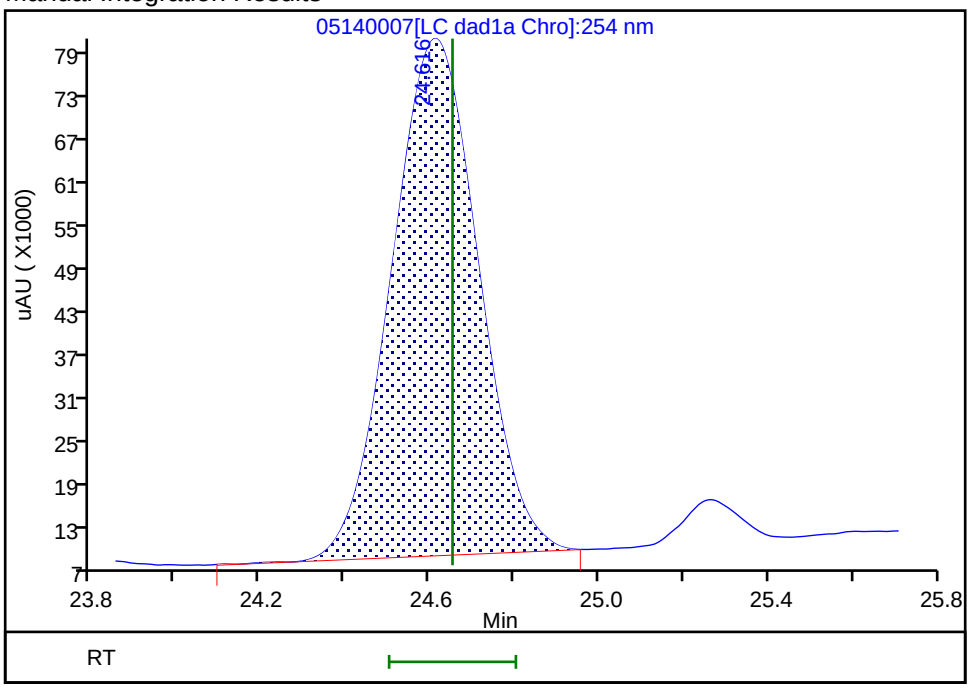
Processing Integration Results

RT: 25.26
Area: 53117
Amount: 0.098897
Amount Units: ug/ml



Manual Integration Results

RT: 24.62
Area: 1019741
Amount: 2.531269
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:08
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140008.D
Lims ID: IC FULL 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-May-2020 16:51:43 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 8
Misc. Info.: 280-0091518-008
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:19:25

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	4.315	4.366	-0.051	424864	1.00	0.9896	M
2 2,4-diamino-6-nitrotoluene	1	4.908	4.880	0.028	226554	1.00	0.9296	M
5 2,4,6-Trinitrophenol	1	6.195	6.300	-0.105	174504	1.00	0.9004	
6 HMX	1	6.968	6.986	-0.018	183992	1.00	1.01	
8 RDX	1	9.148	9.173	-0.025	219481	1.00	0.8982	
9 Nitrobenzene	1	12.088	12.106	-0.018	436359	1.00	0.99	
$ 10 1,2-Dinitrobenzene	1	13.028	13.040	-0.012	274673	1.00	0.9842	M
11 3,5-Dinitroaniline	1	14.868	14.886	-0.018	495596	1.00	1.02	
12 1,3-Dinitrobenzene	1	15.541	15.553	-0.012	669330	1.00	0.99	
13 Nitroglycerin	2	15.848	15.853	-0.005	1284256	10.0	10.1	
14 o-Nitrotoluene	1	16.535	16.533	0.002	261684	1.00	0.9587	
15 p-Nitrotoluene	1	16.815	16.820	-0.005	231517	1.00	0.9611	
16 4-Amino-2,6-dinitrotoluene	1	17.141	17.146	-0.005	321819	1.00	0.9322	
17 m-Nitrotoluene	1	17.741	17.753	-0.012	280653	1.00	0.9408	
18 2-Amino-4,6-dinitrotoluene	1	18.028	18.046	-0.018	455872	1.00	0.9799	
19 1,3,5-Trinitrobenzene	1	18.881	18.886	-0.005	467399	1.00	0.9893	
20 2,6-Dinitrotoluene	1	19.801	19.806	-0.005	298461	1.00	1.02	
21 2,4-Dinitrotoluene	1	20.288	20.293	-0.005	608421	1.00	0.9505	
22 Tetryl	1	23.555	23.553	0.002	350816	1.00	0.9516	
23 2,4,6-Trinitrotoluene	1	24.648	24.653	-0.005	408271	1.00	1.01	
24 PETN	2	25.281	25.280	0.001	1365764	10.0	10.4	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

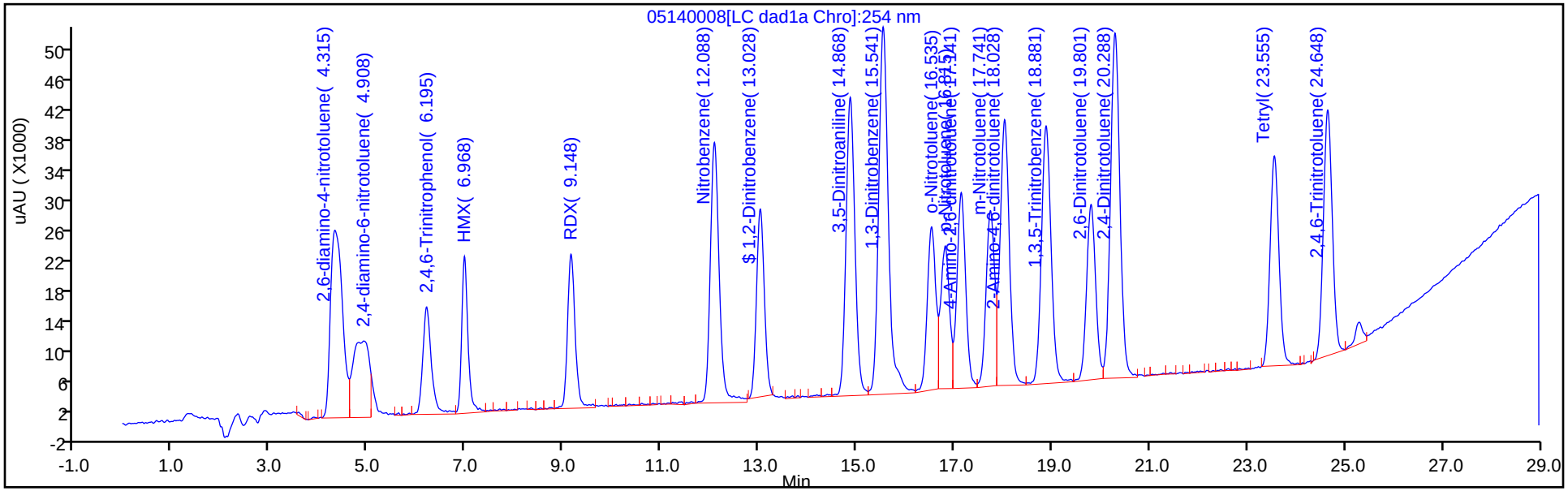
8330IntermStk_00064	Amount Added: 100.00	Units: uL
8330_ADDs_00026	Amount Added: 50.00	Units: uL

Report Date: 15-May-2020 12:00:55 Chrom Revision: 2.3 05-May-2020 17:48:18

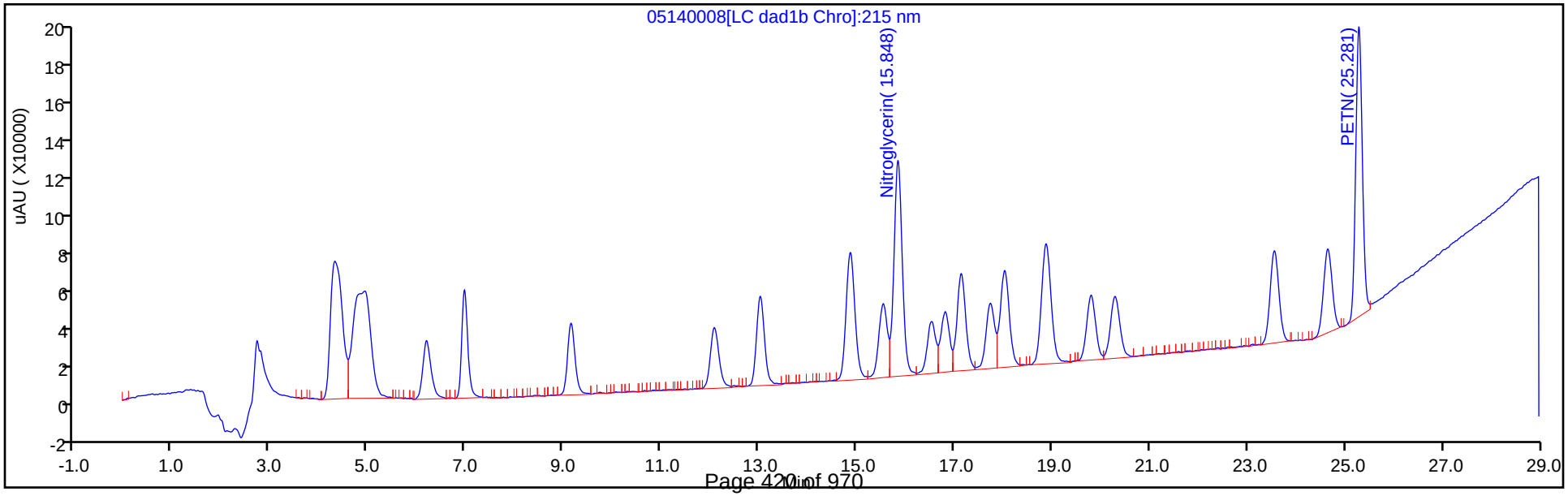
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140008.d				
Injection Date:	14-May-2020 16:51:43	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 8			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

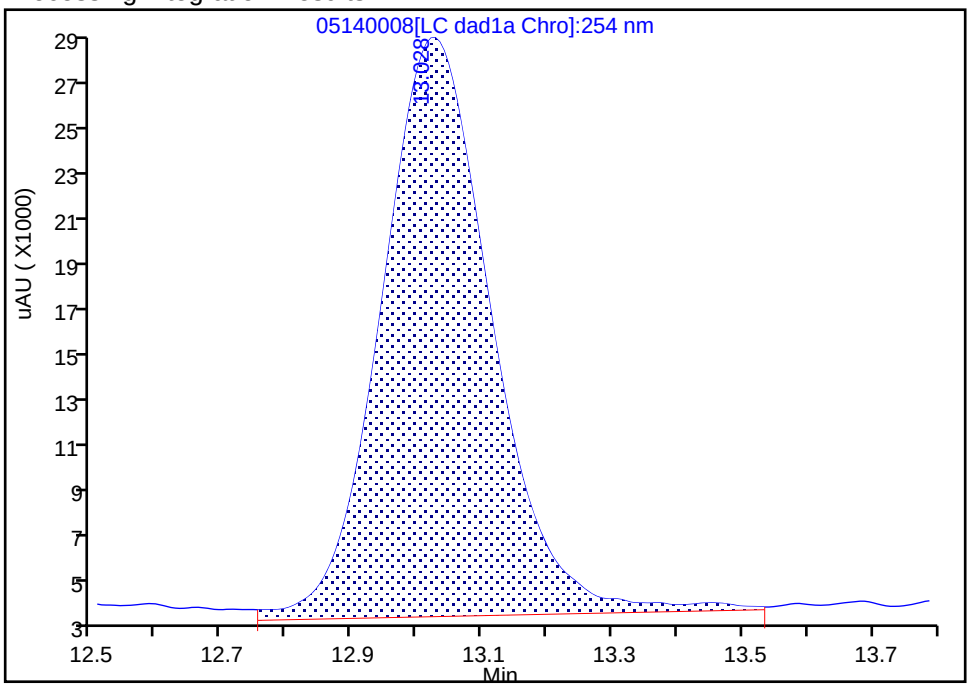
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140008.d				
Injection Date:	14-May-2020 16:51:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

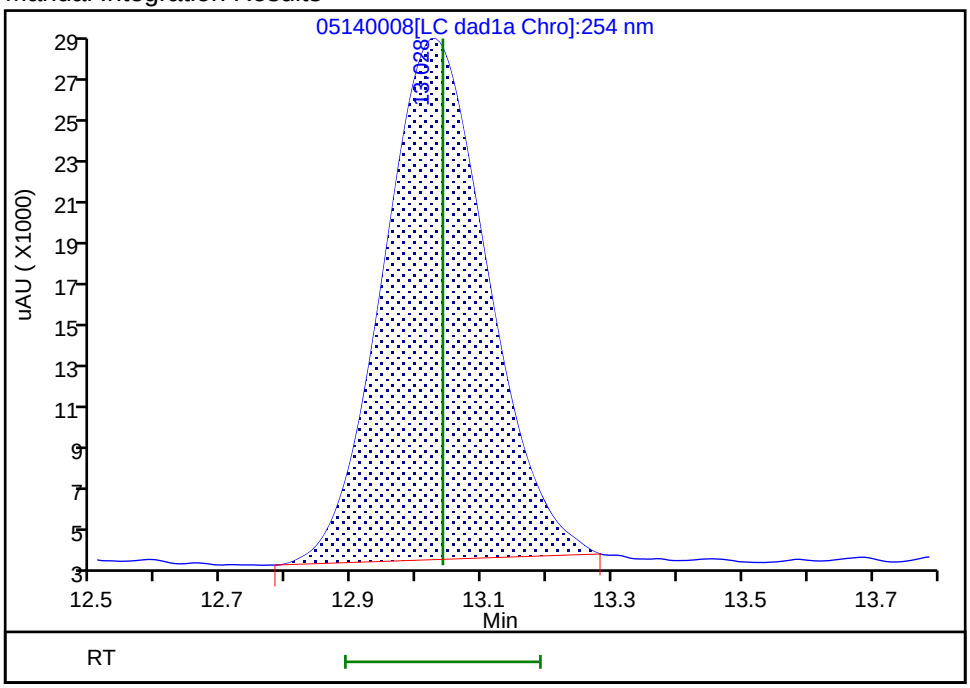
Processing Integration Results

RT: 13.03
Area: 297550
Amount: 0.923853
Amount Units: ug/ml



Manual Integration Results

RT: 13.03
Area: 274673
Amount: 0.984150
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:34:32

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140009.D
Lims ID: IC FULL 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-May-2020 17:26:40 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 7
Misc. Info.: 280-0091518-009
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:20:09

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	4.342	4.366	-0.024	272072	0.7000	0.6337	
2 2,4-diamino-6-nitrotoluene	1	4.915	4.880	0.035	176663	0.7000	0.7197	
5 2,4,6-Trinitrophenol	1	6.235	6.300	-0.065	118579	0.7000	0.6118	
6 HMX	1	6.982	6.986	-0.004	125697	0.7000	0.6800	
8 RDX	1	9.162	9.173	-0.011	152096	0.7000	0.6224	
9 Nitrobenzene	1	12.095	12.106	-0.011	295388	0.7028	0.6725	
$ 10 1,2-Dinitrobenzene	1	13.028	13.040	-0.012	184773	0.7000	0.6599	M
11 3,5-Dinitroaniline	1	14.875	14.886	-0.011	320559	0.7000	0.6552	
12 1,3-Dinitrobenzene	1	15.548	15.553	-0.005	463638	0.7014	0.6877	
13 Nitroglycerin	2	15.842	15.853	-0.011	852305	7.00	6.72	
14 o-Nitrotoluene	1	16.535	16.533	0.002	181444	0.7000	0.6647	
15 p-Nitrotoluene	1	16.808	16.820	-0.012	165213	0.7014	0.6859	
16 4-Amino-2,6-dinitrotoluene	1	17.142	17.146	-0.004	223840	0.7007	0.6484	
17 m-Nitrotoluene	1	17.742	17.753	-0.011	200617	0.7007	0.6725	
18 2-Amino-4,6-dinitrotoluene	1	18.035	18.046	-0.011	319742	0.7028	0.6873	
19 1,3,5-Trinitrobenzene	1	18.875	18.886	-0.011	323482	0.7014	0.6847	
20 2,6-Dinitrotoluene	1	19.795	19.806	-0.011	206984	0.7028	0.7003	
21 2,4-Dinitrotoluene	1	20.288	20.293	-0.005	425741	0.7028	0.6651	
22 Tetryl	1	23.542	23.553	-0.011	245833	0.7014	0.6668	
23 2,4,6-Trinitrotoluene	1	24.642	24.653	-0.011	282035	0.7028	0.6944	
24 PETN	2	25.275	25.280	-0.005	957879	7.00	7.20	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

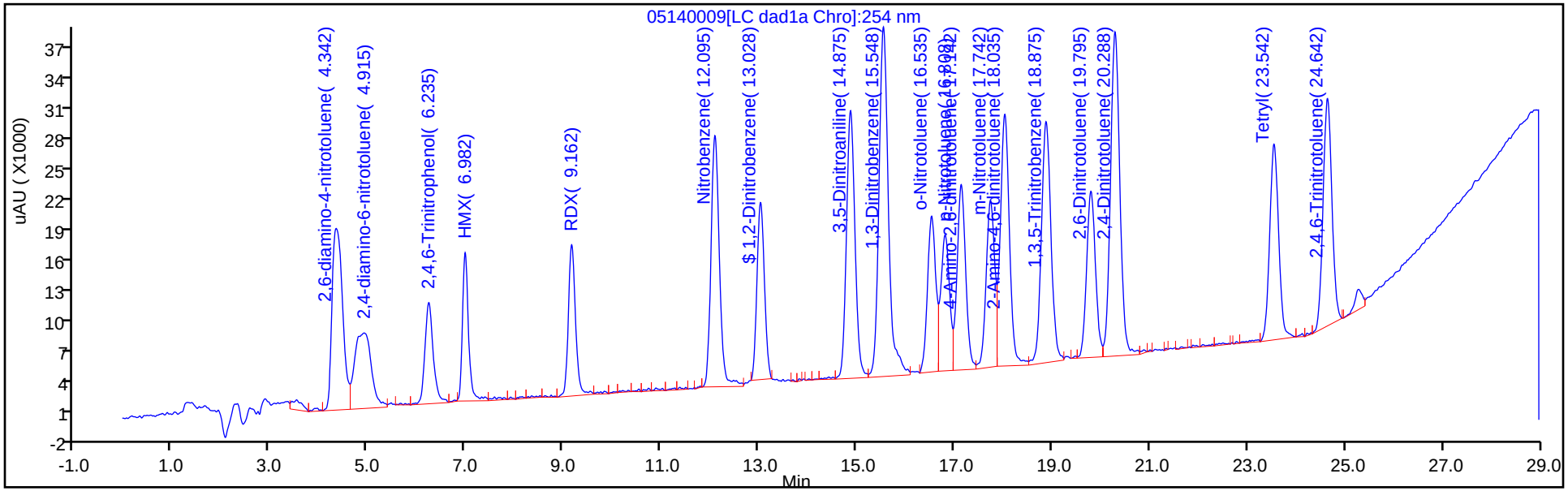
8330_ADDs_00026	Amount Added:	35.00	Units: uL
8330IntermStk_00064	Amount Added:	70.00	Units: uL

Report Date: 15-May-2020 12:00:55 Chrom Revision: 2.3 05-May-2020 17:48:18

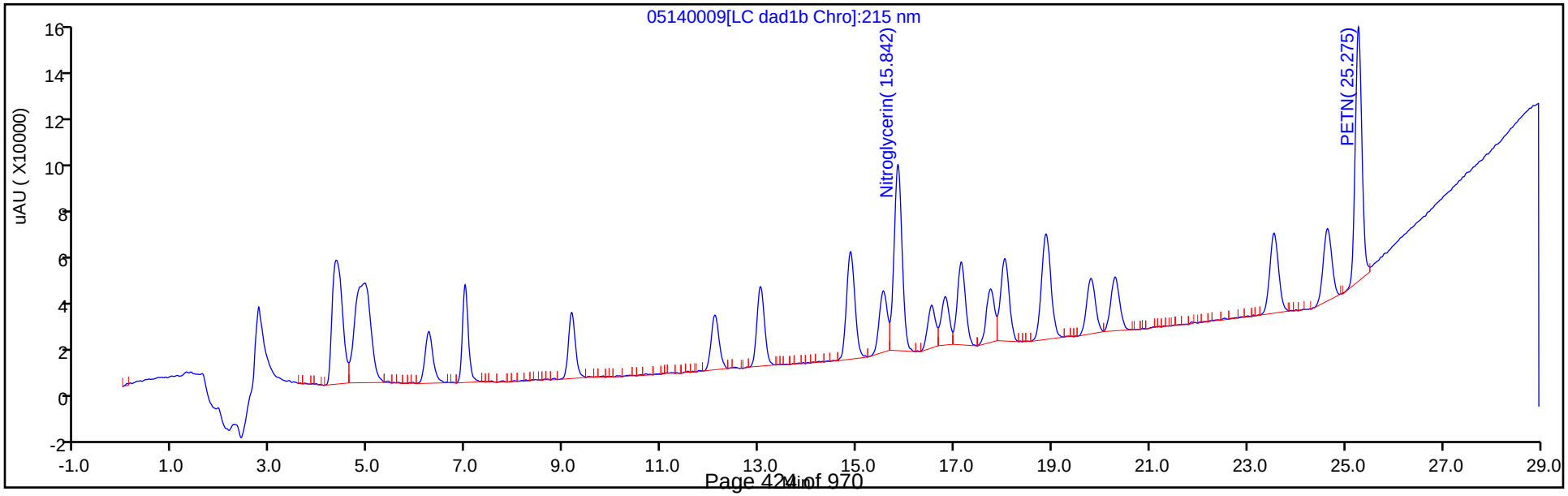
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140009.d				
Injection Date:	14-May-2020 17:26:40	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 7			Worklist Smp#:	9
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

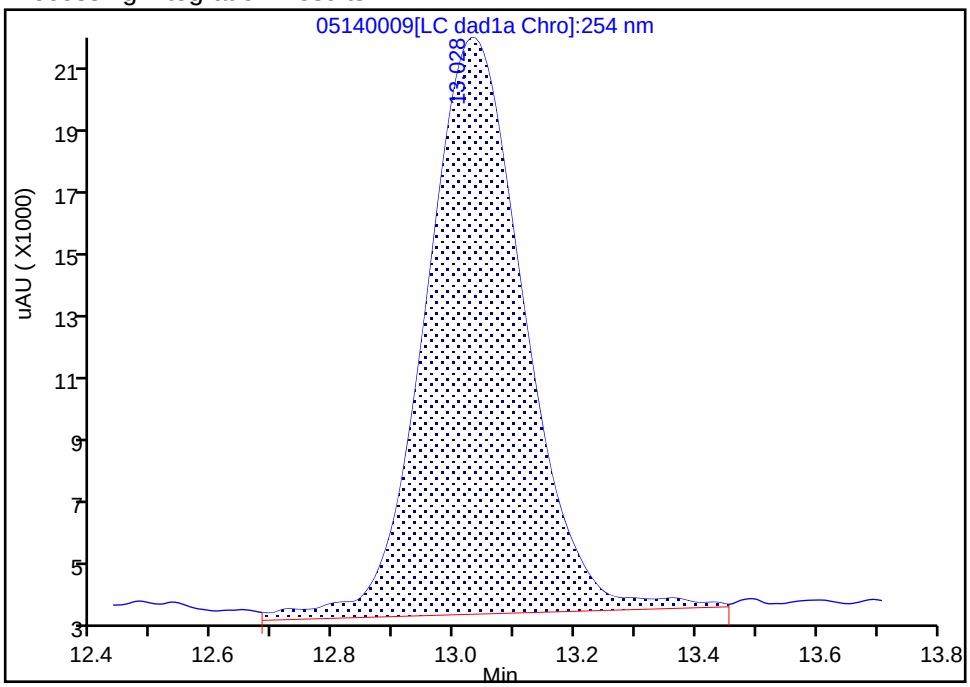
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140009.d				
Injection Date:	14-May-2020 17:26:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

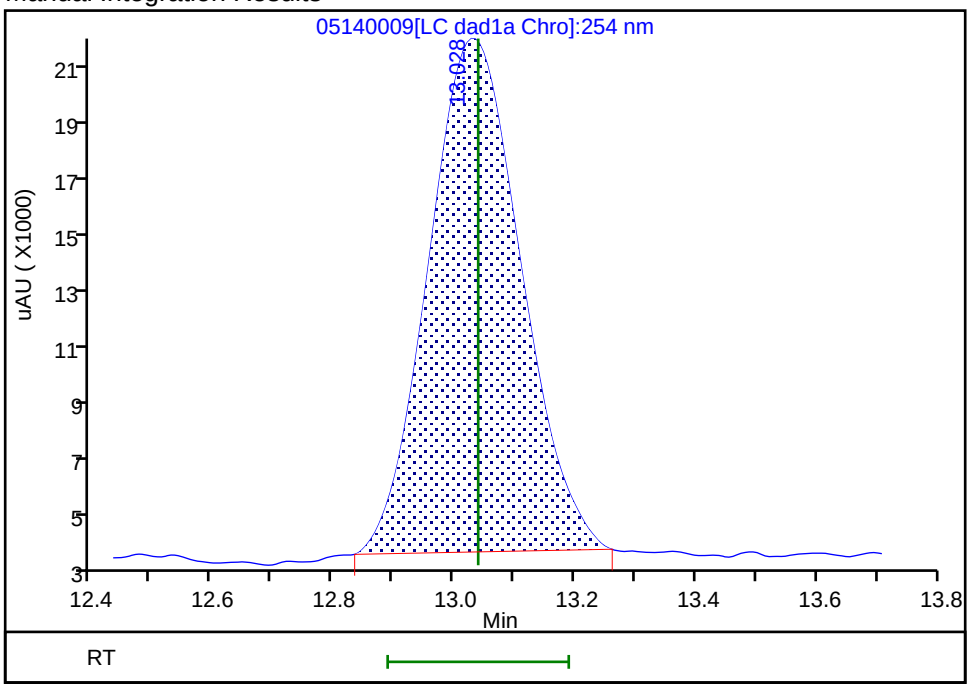
Processing Integration Results

RT: 13.03
Area: 203295
Amount: 0.637674
Amount Units: ug/ml



Manual Integration Results

RT: 13.03
Area: 184773
Amount: 0.659868
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:34:40

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140010.D
Lims ID: IC FULL 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-May-2020 18:01:41 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 6
Misc. Info.: 280-0091518-010
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:56 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:52:49

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	4.347	4.366	-0.019	161291	0.4000	0.3757	M
2 2,4-diamino-6-nitrotoluene	1	4.940	4.880	0.060	100170	0.4000	0.3980	M
5 2,4,6-Trinitrophenol	1	6.267	6.300	-0.033	68021	0.4000	0.3510	a
6 HMX	1	6.987	6.986	0.001	74484	0.4000	0.3907	
8 RDX	1	9.173	9.173	0.000	88545	0.4000	0.3624	
9 Nitrobenzene	1	12.107	12.106	0.001	166107	0.4016	0.3782	
$ 10 1,2-Dinitrobenzene	1	13.040	13.040	0.000	107232	0.4000	0.3802	M
11 3,5-Dinitroaniline	1	14.887	14.886	0.001	190015	0.4000	0.3861	M
12 1,3-Dinitrobenzene	1	15.553	15.553	0.000	258559	0.4008	0.3835	M
13 Nitroglycerin	2	15.853	15.853	0.000	509915	4.00	4.02	
14 o-Nitrotoluene	1	16.540	16.533	0.007	105493	0.4000	0.3865	M
15 p-Nitrotoluene	1	16.820	16.820	0.000	93773	0.4008	0.3893	M
16 4-Amino-2,6-dinitrotoluene	1	17.153	17.146	0.007	130436	0.4004	0.3778	M
17 m-Nitrotoluene	1	17.747	17.753	-0.006	115331	0.4004	0.3866	M
18 2-Amino-4,6-dinitrotoluene	1	18.040	18.046	-0.006	179358	0.4016	0.3855	M
19 1,3,5-Trinitrobenzene	1	18.887	18.886	0.001	178692	0.4008	0.3782	
20 2,6-Dinitrotoluene	1	19.807	19.806	0.001	118093	0.4016	0.3930	M
21 2,4-Dinitrotoluene	1	20.293	20.293	0.000	245009	0.4016	0.3828	M
22 Tetryl	1	23.553	23.553	0.000	139850	0.4008	0.3793	
23 2,4,6-Trinitrotoluene	1	24.647	24.653	-0.006	158091	0.4016	0.3858	
24 PETN	2	25.280	25.280	0.000	557734	4.00	4.10	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

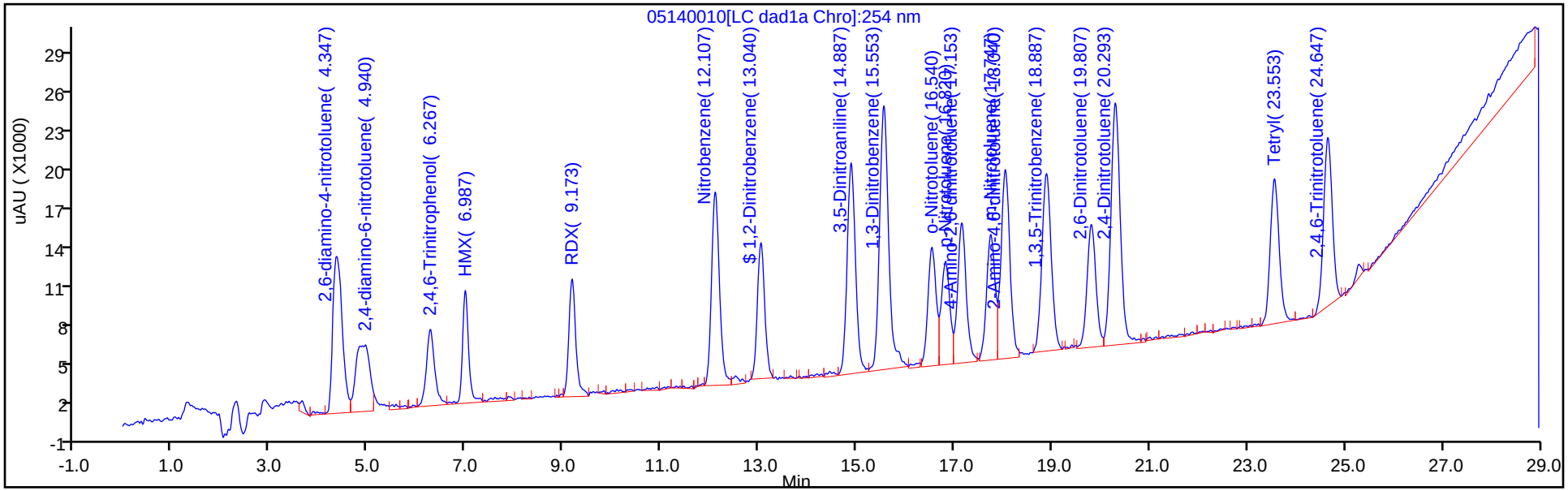
8330IntermStk_00064	Amount Added: 40.00	Units: uL
8330_ADDs_00026	Amount Added: 20.00	Units: uL

Report Date: 15-May-2020 12:00:56 Chrom Revision: 2.3 05-May-2020 17:48:18

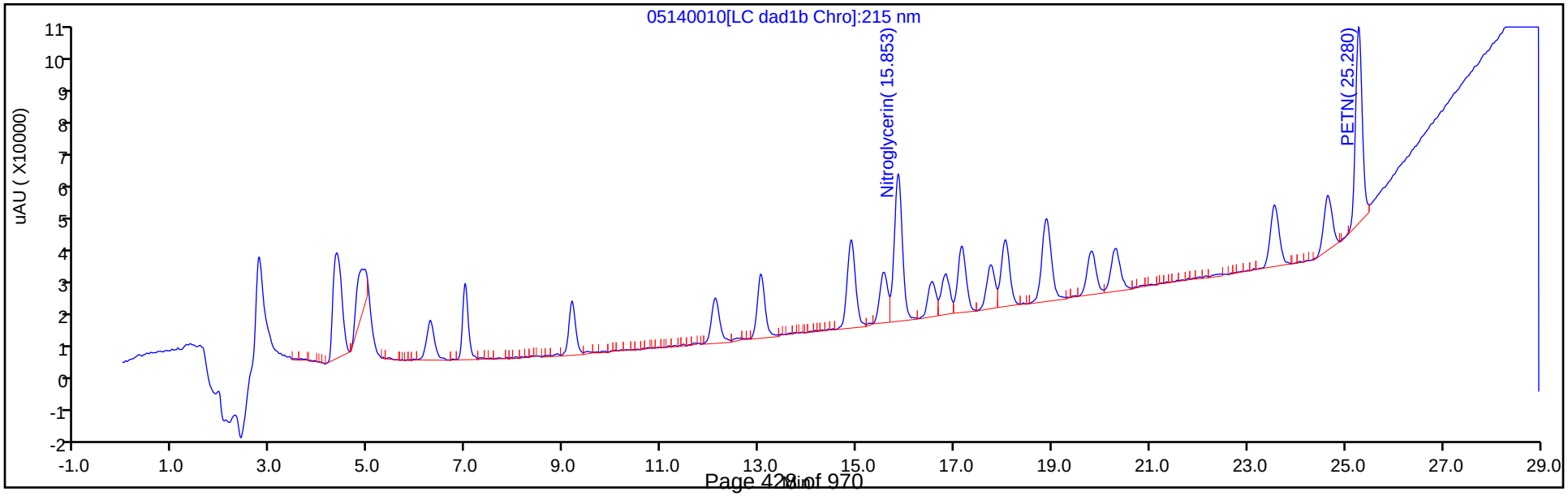
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 6			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

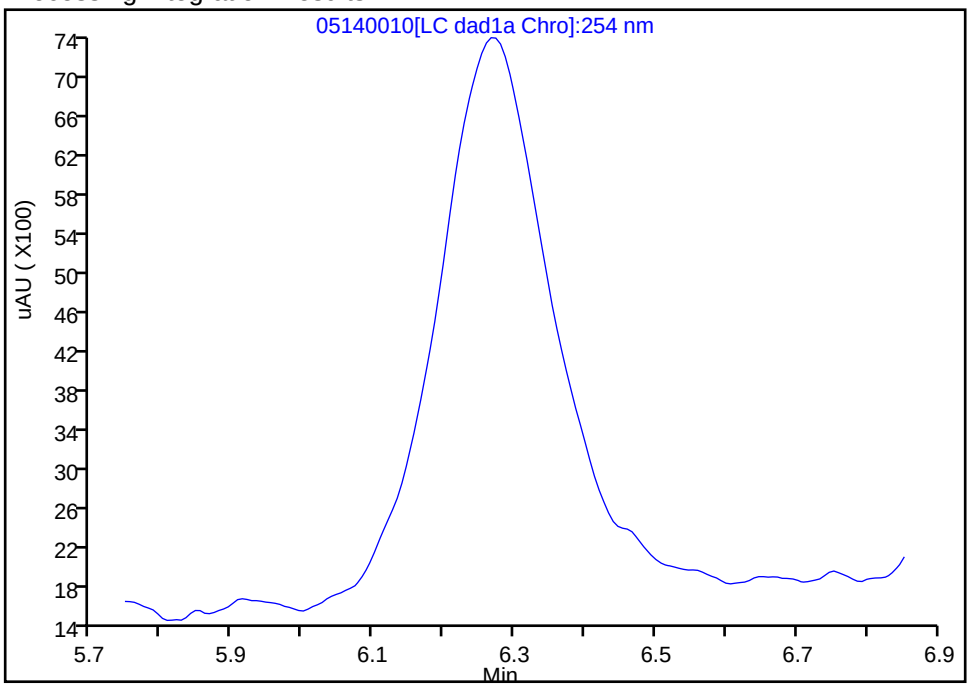
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

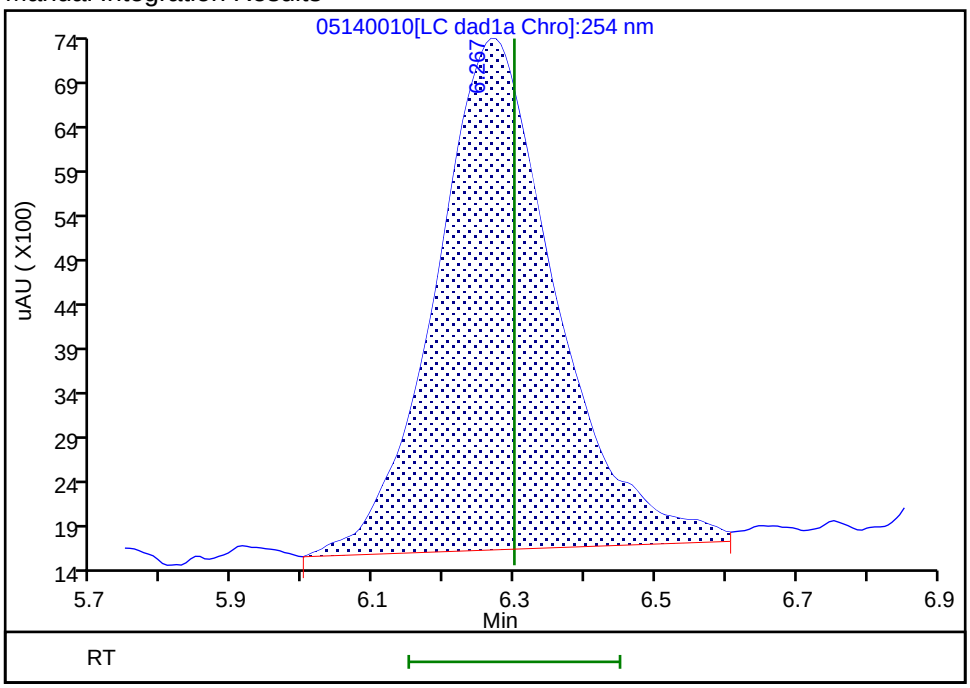
Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.27
Area: 68021
Amount: 0.350967
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:14
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

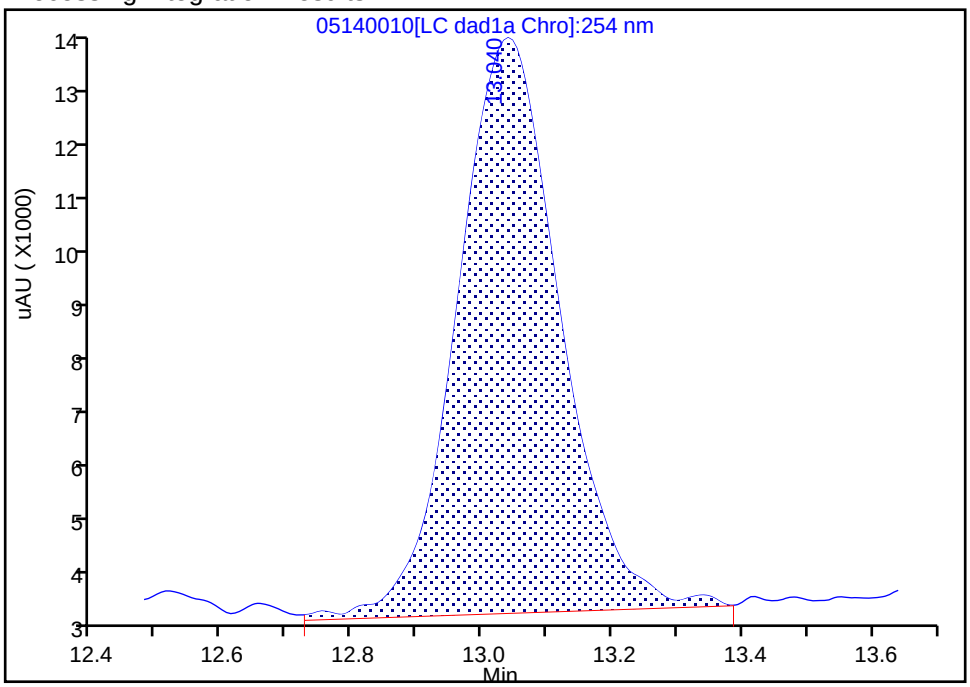
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

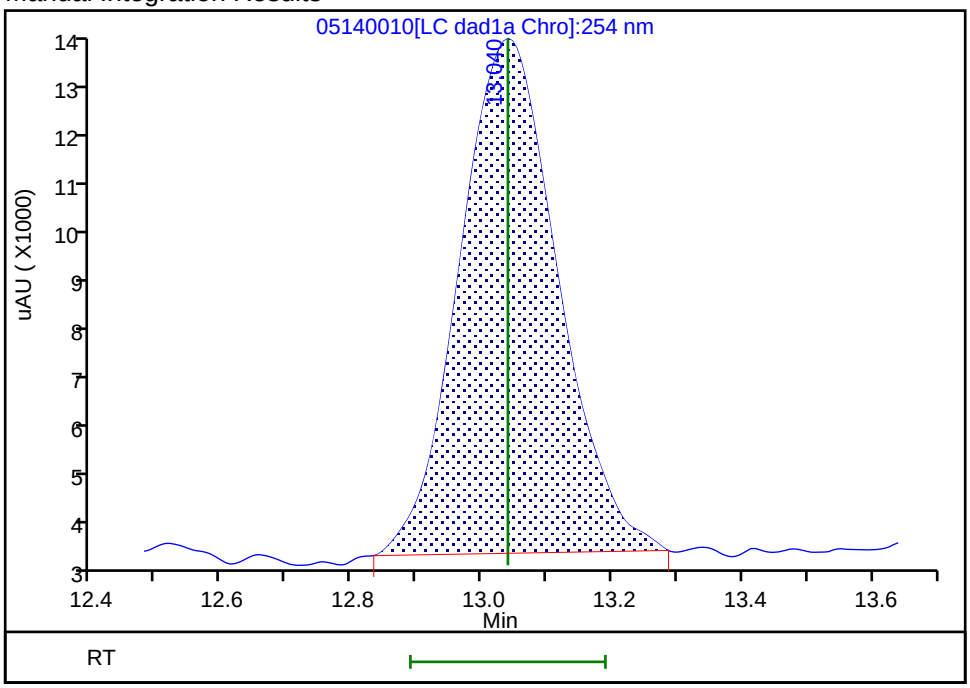
Processing Integration Results

RT: 13.04
Area: 114682
Amount: 0.364039
Amount Units: ug/ml



Manual Integration Results

RT: 13.04
Area: 107232
Amount: 0.380167
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:34:50

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

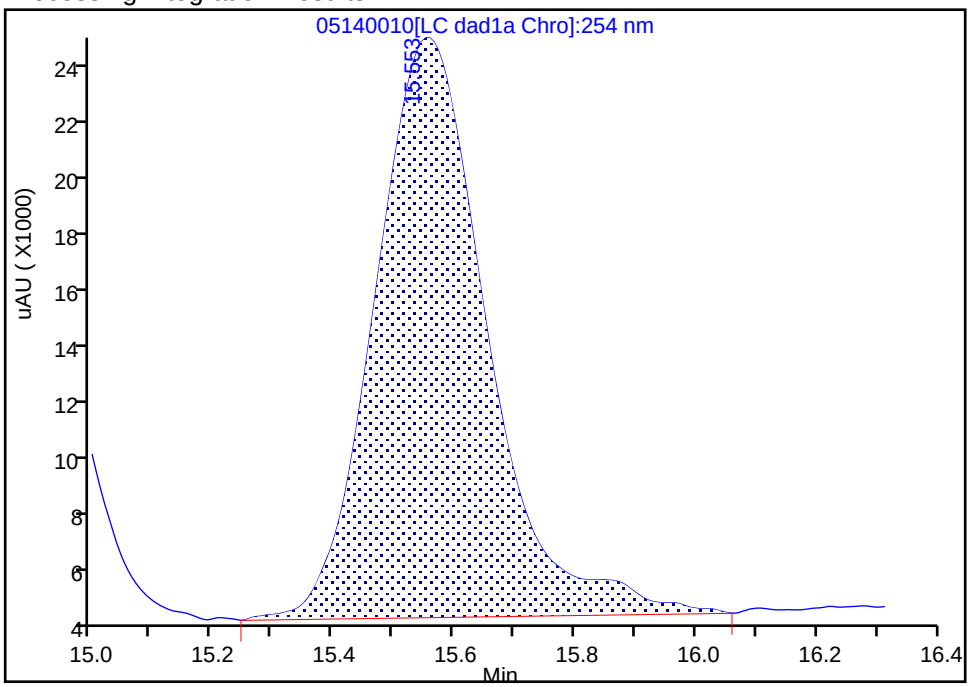
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

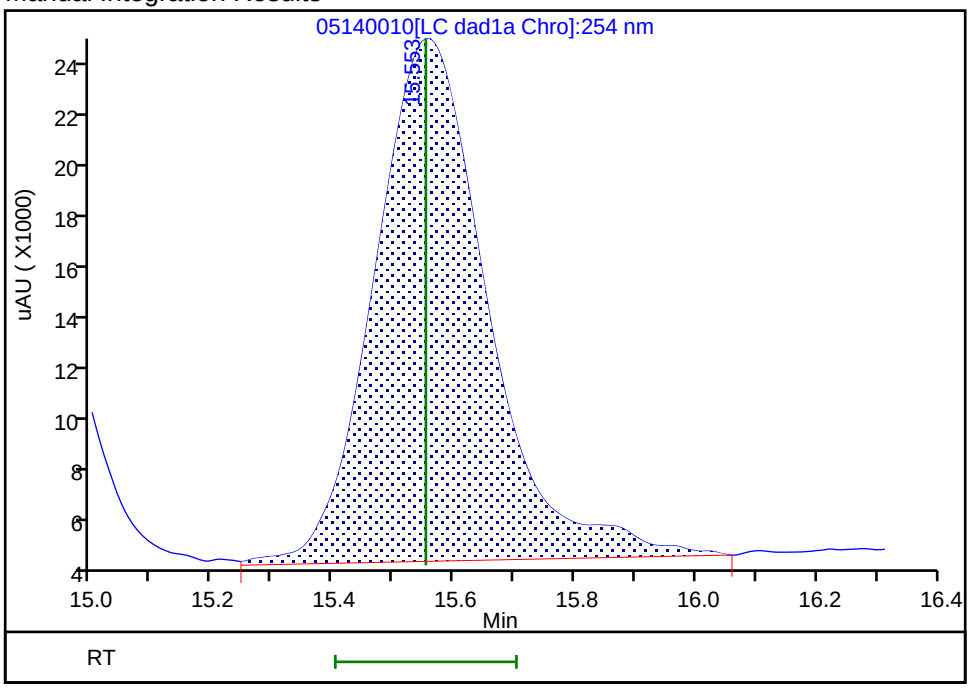
Processing Integration Results

RT: 15.55
Area: 255534
Amount: 0.374138
Amount Units: ug/ml



Manual Integration Results

RT: 15.55
Area: 258559
Amount: 0.383511
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:35

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

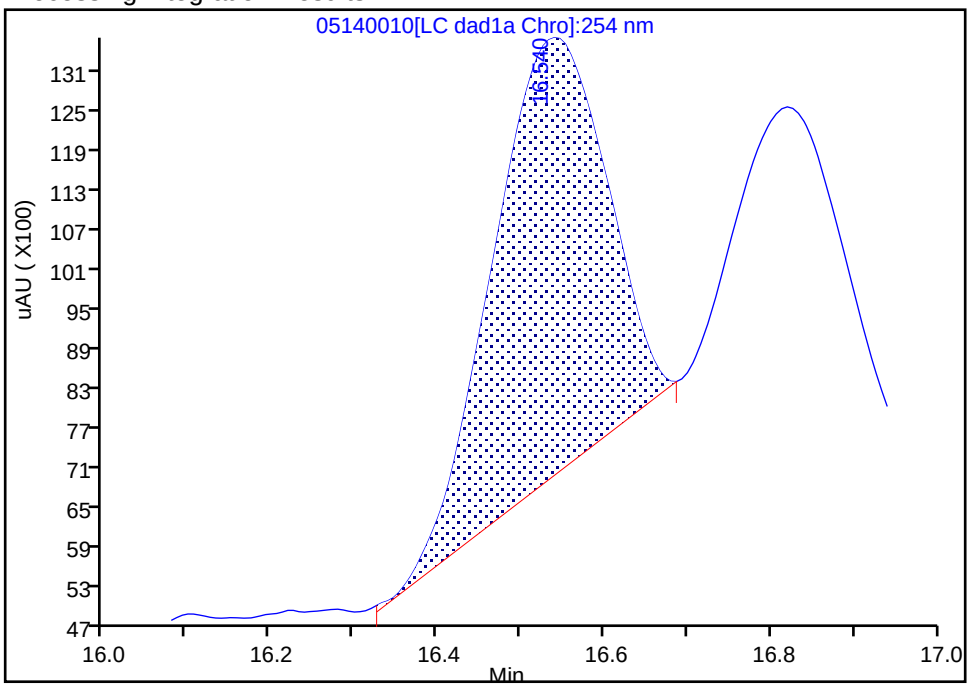
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

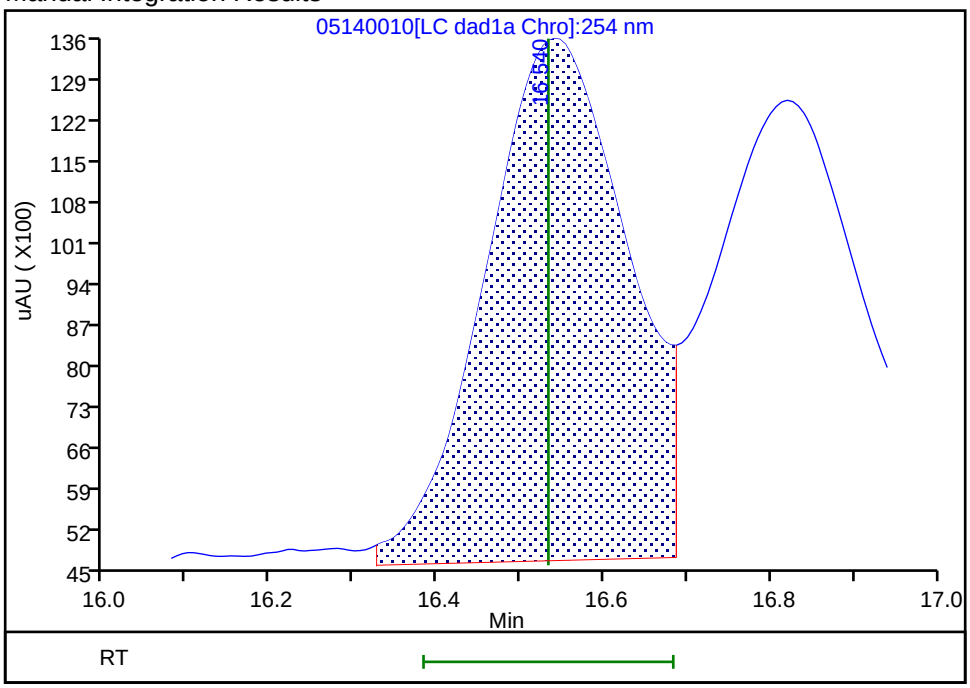
Processing Integration Results

RT: 16.54
Area: 63784
Amount: 0.238403
Amount Units: ug/ml



Manual Integration Results

RT: 16.54
Area: 105493
Amount: 0.386471
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

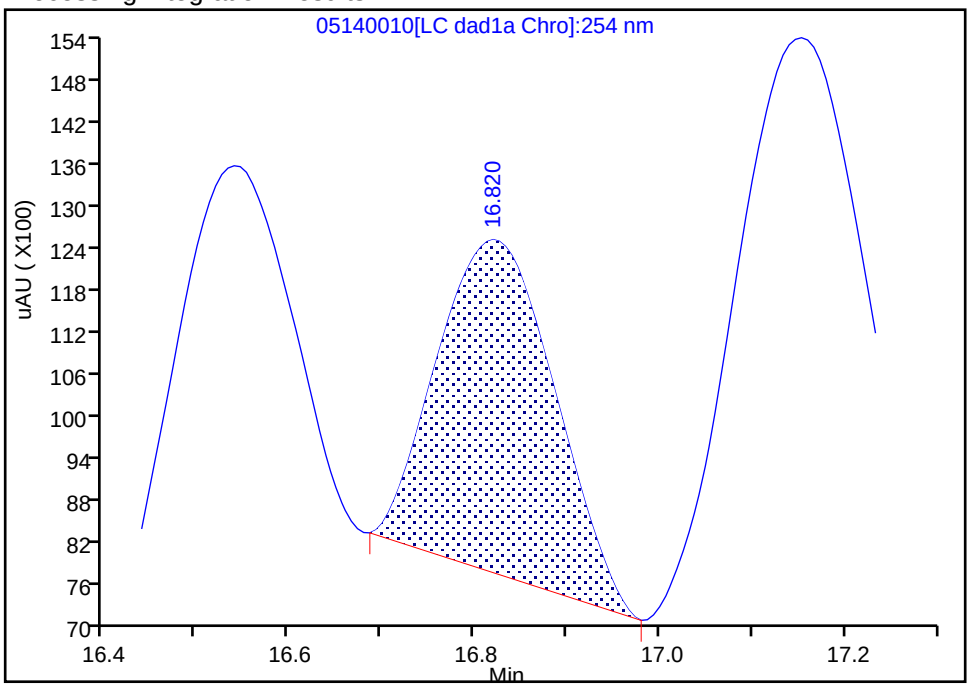
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

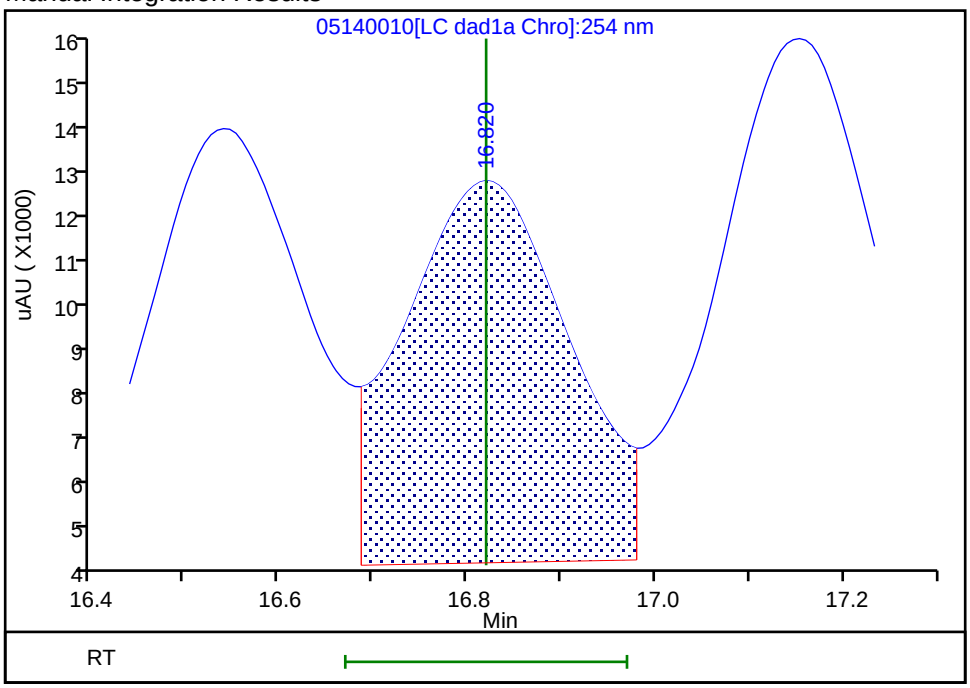
Processing Integration Results

RT: 16.82
Area: 42038
Amount: 0.176152
Amount Units: ug/ml



Manual Integration Results

RT: 16.82
Area: 93773
Amount: 0.389291
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

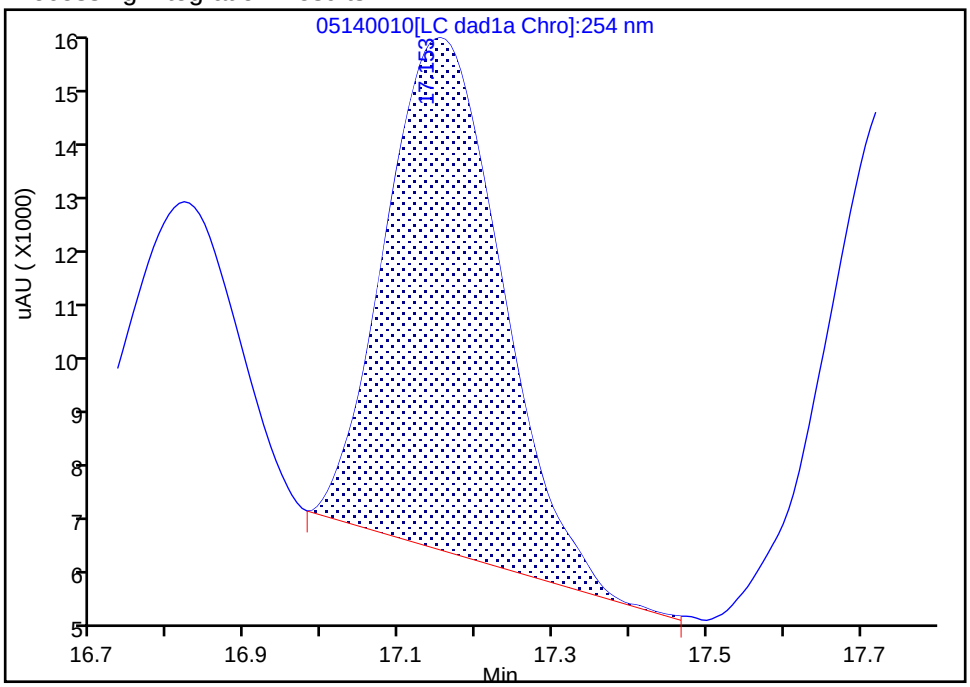
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

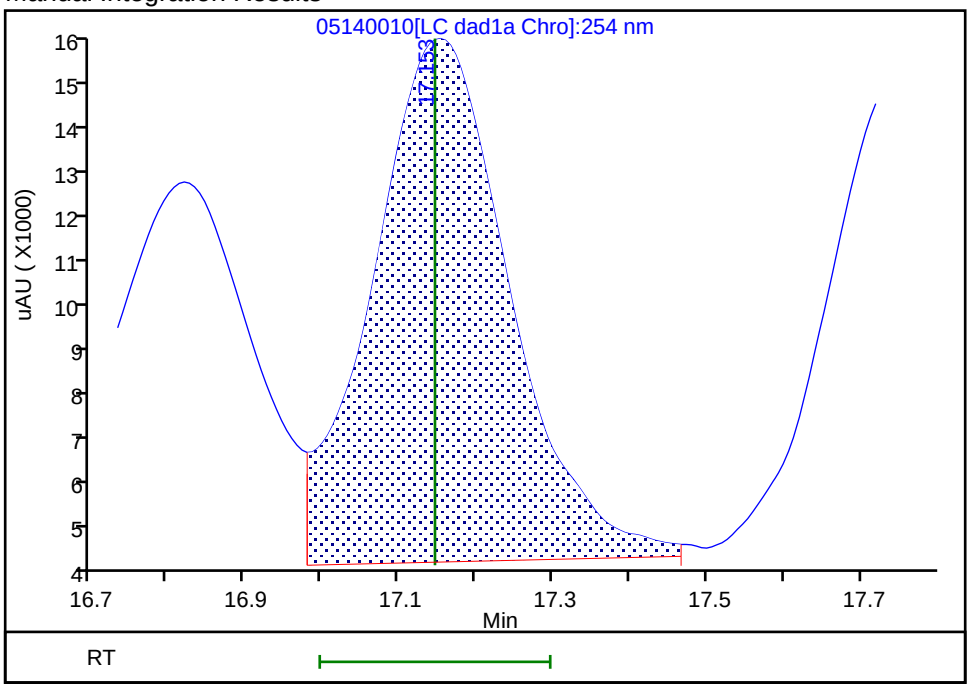
Processing Integration Results

RT: 17.15
Area: 95002
Amount: 0.278639
Amount Units: ug/ml



Manual Integration Results

RT: 17.15
Area: 130436
Amount: 0.377818
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

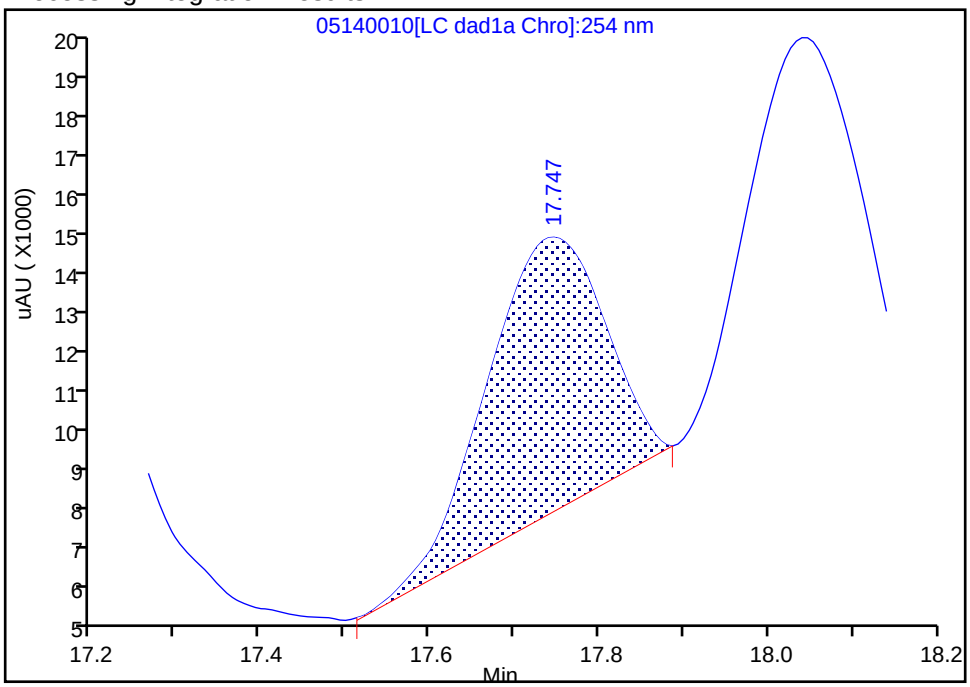
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

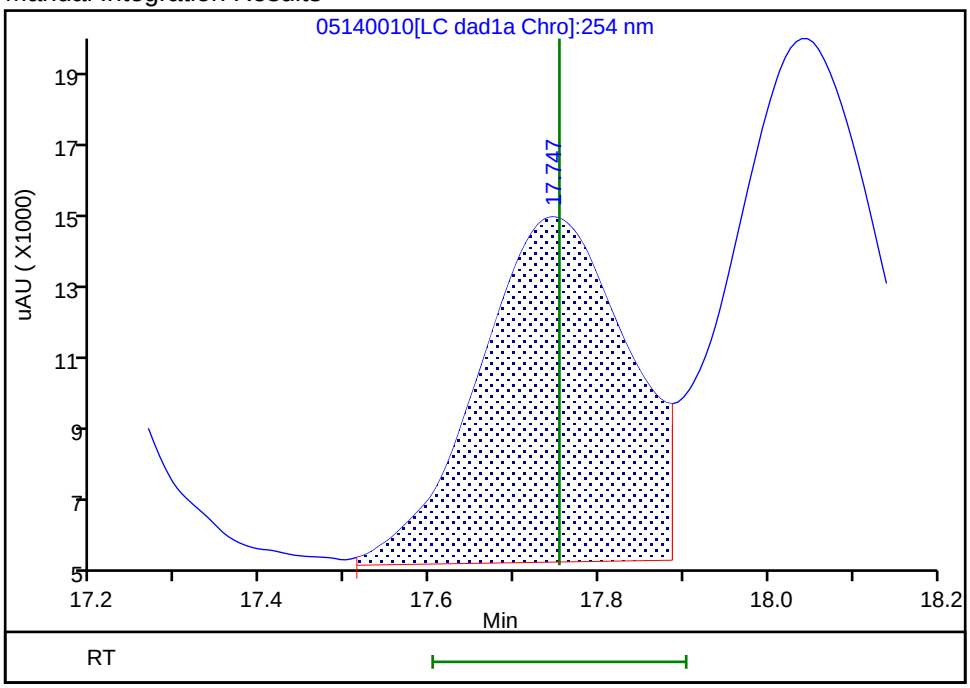
Processing Integration Results

RT: 17.75
Area: 65895
Amount: 0.232967
Amount Units: ug/ml



Manual Integration Results

RT: 17.75
Area: 115331
Amount: 0.386593
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

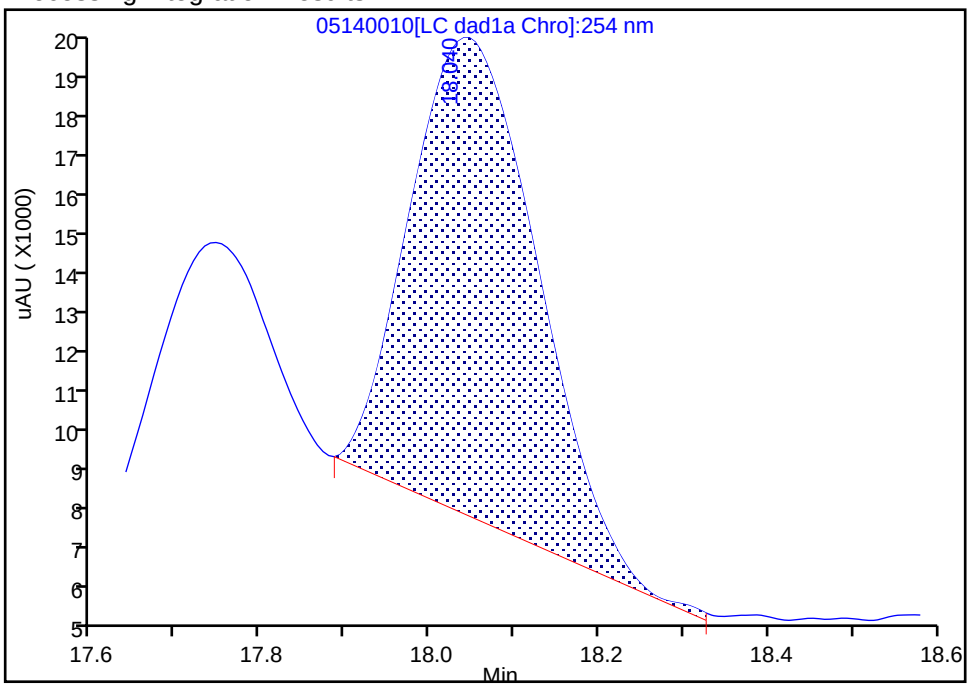
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

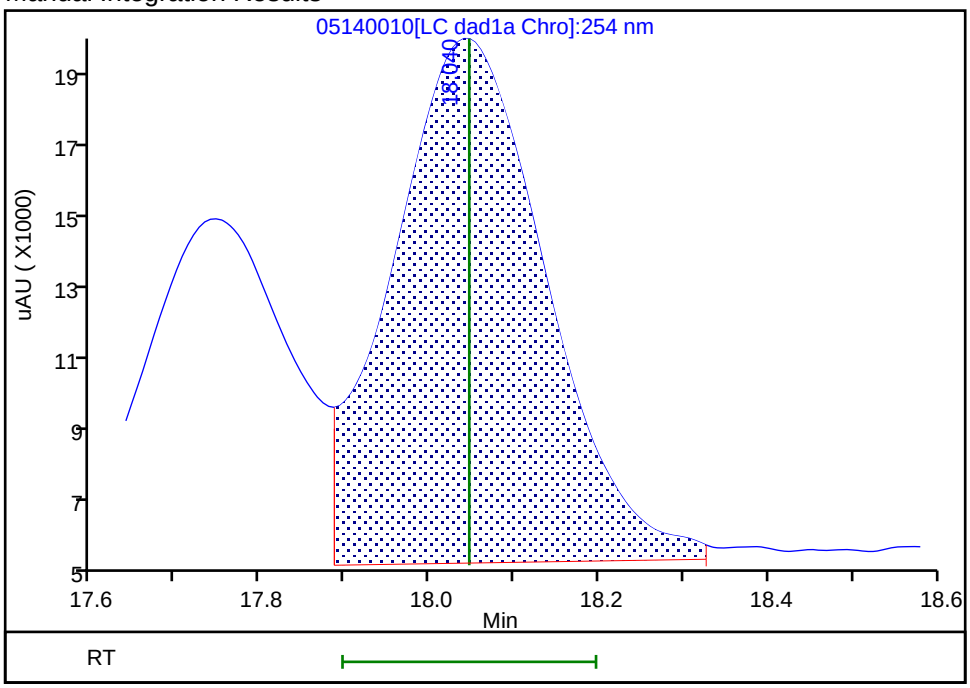
Processing Integration Results

RT: 18.04
Area: 120261
Amount: 0.277181
Amount Units: ug/ml



Manual Integration Results

RT: 18.04
Area: 179358
Amount: 0.385541
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

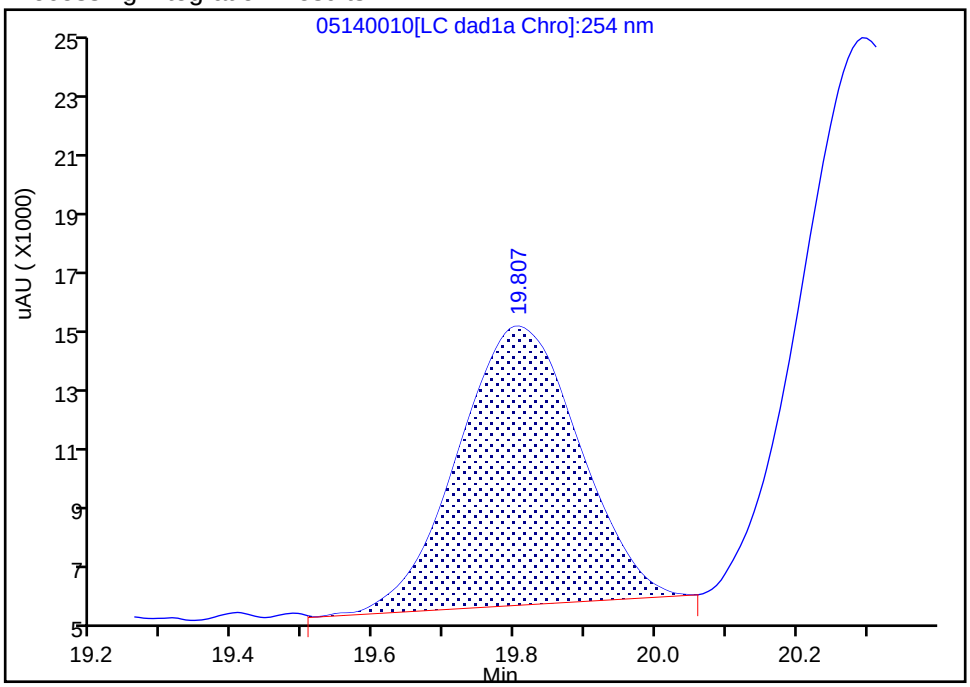
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

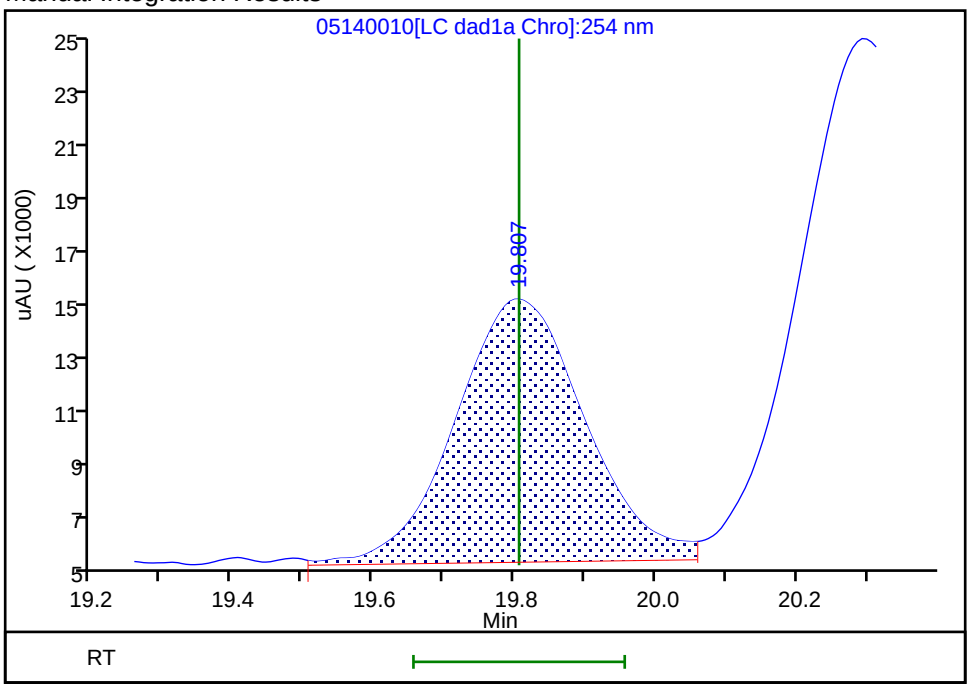
Processing Integration Results

RT: 19.81
Area: 105710
Amount: 0.311662
Amount Units: ug/ml



Manual Integration Results

RT: 19.81
Area: 118093
Amount: 0.392980
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:40
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

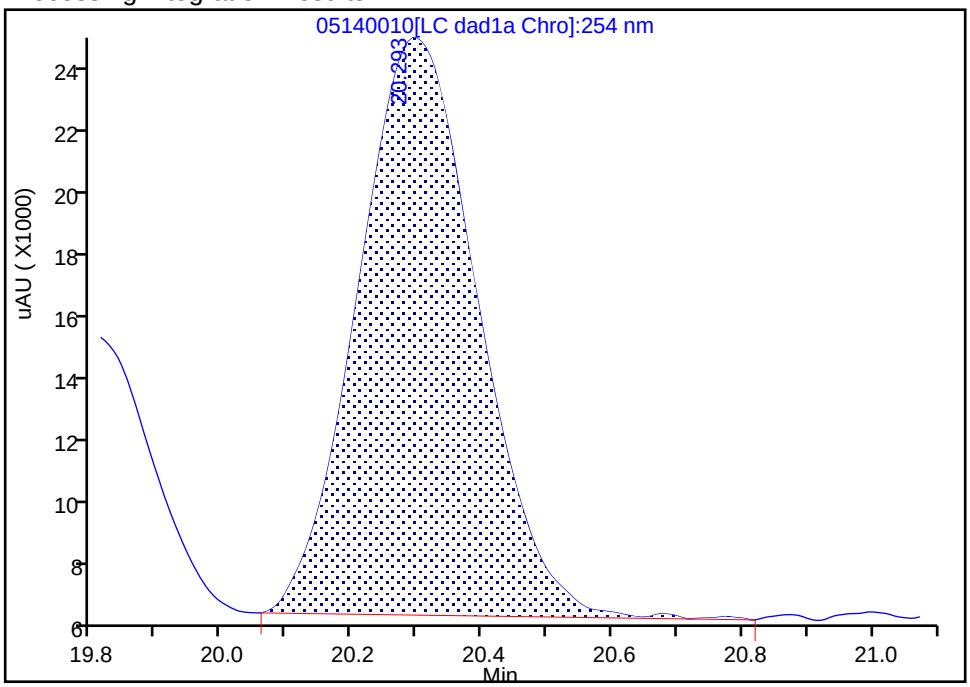
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

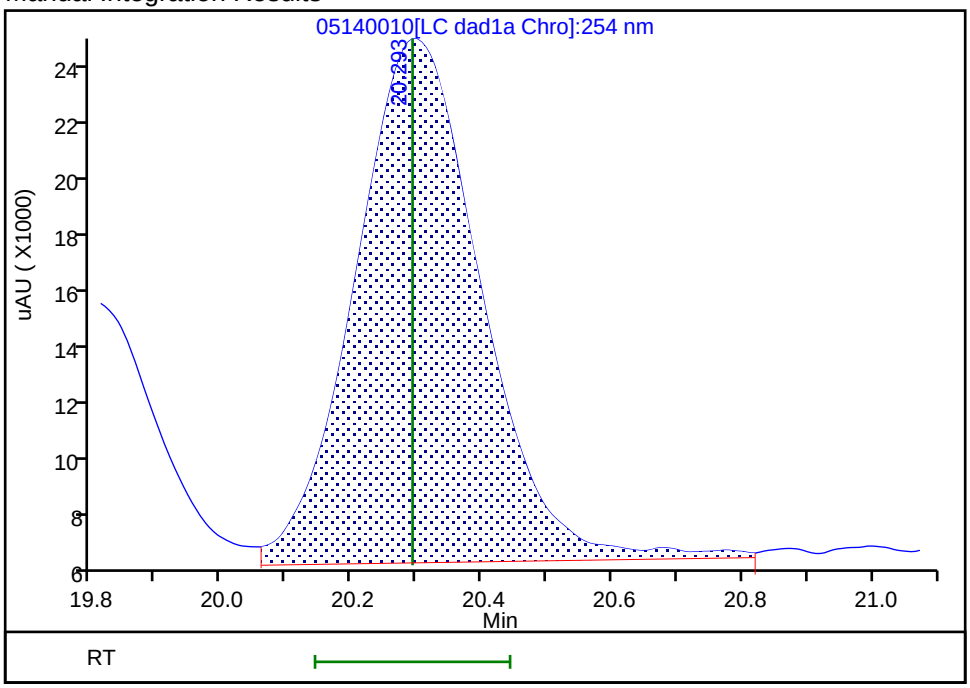
Processing Integration Results

RT: 20.29
Area: 226951
Amount: 0.348081
Amount Units: ug/ml



Manual Integration Results

RT: 20.29
Area: 245009
Amount: 0.382759
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:40
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

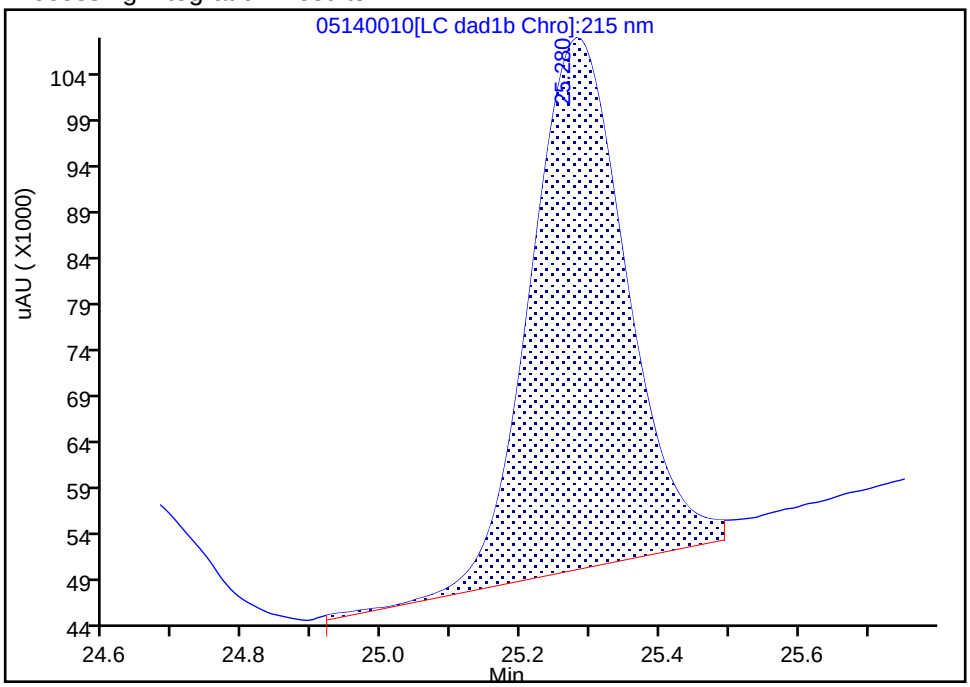
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

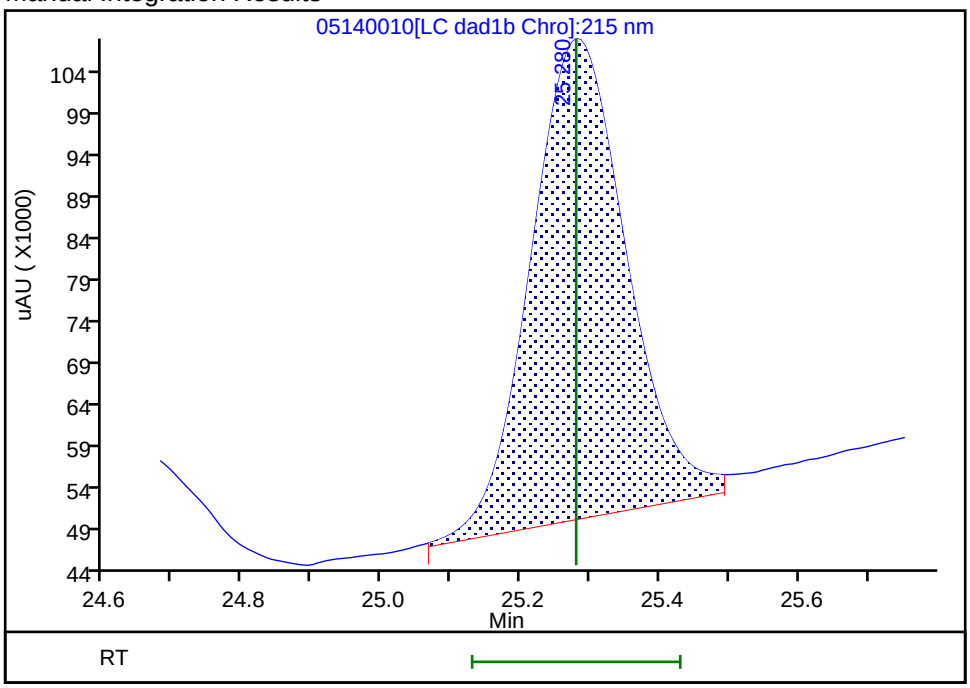
Processing Integration Results

RT: 25.28
Area: 559852
Amount: 4.200524
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 557734
Amount: 4.102237
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:25:18

Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140011.D
Lims ID: IC FULL 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-May-2020 18:36:40 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 5
Misc. Info.: 280-0091518-011
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:56 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:20:54

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	4.366	4.366	0.000	106754	0.2500	0.2487	
2 2,4-diamino-6-nitrotoluene	1	4.880	4.880	0.000	74938	0.2500	0.2919	
5 2,4,6-Trinitrophenol	1	6.300	6.300	0.000	48614	0.2500	0.2508	a
6 HMX	1	6.986	6.986	0.000	54065	0.2500	0.2754	
8 RDX	1	9.173	9.173	0.000	62626	0.2500	0.2563	
9 Nitrobenzene	1	12.106	12.106	0.000	106064	0.2510	0.2415	
$ 10 1,2-Dinitrobenzene	1	13.040	13.040	0.000	62375	0.2500	0.2184	M
11 3,5-Dinitroaniline	1	14.886	14.886	0.000	130301	0.2500	0.2629	
12 1,3-Dinitrobenzene	1	15.553	15.553	0.000	172289	0.2505	0.2556	
13 Nitroglycerin	2	15.853	15.853	0.000	330378	2.50	2.61	M
14 o-Nitrotoluene	1	16.533	16.533	0.000	63146	0.2500	0.2313	
15 p-Nitrotoluene	1	16.820	16.820	0.000	59605	0.2505	0.2474	
16 4-Amino-2,6-dinitrotoluene	1	17.146	17.146	0.000	79168	0.2503	0.2293	
17 m-Nitrotoluene	1	17.753	17.753	0.000	71162	0.2503	0.2385	
18 2-Amino-4,6-dinitrotoluene	1	18.046	18.046	0.000	112860	0.2510	0.2426	
19 1,3,5-Trinitrobenzene	1	18.886	18.886	0.000	118709	0.2505	0.2513	
20 2,6-Dinitrotoluene	1	19.806	19.806	0.000	74317	0.2510	0.2416	
21 2,4-Dinitrotoluene	1	20.293	20.293	0.000	153249	0.2510	0.2394	
22 Tetryl	1	23.553	23.553	0.000	92236	0.2505	0.2502	
23 2,4,6-Trinitrotoluene	1	24.653	24.653	0.000	100168	0.2510	0.2416	
24 PETN	2	25.280	25.280	0.000	338241	2.50	2.40	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

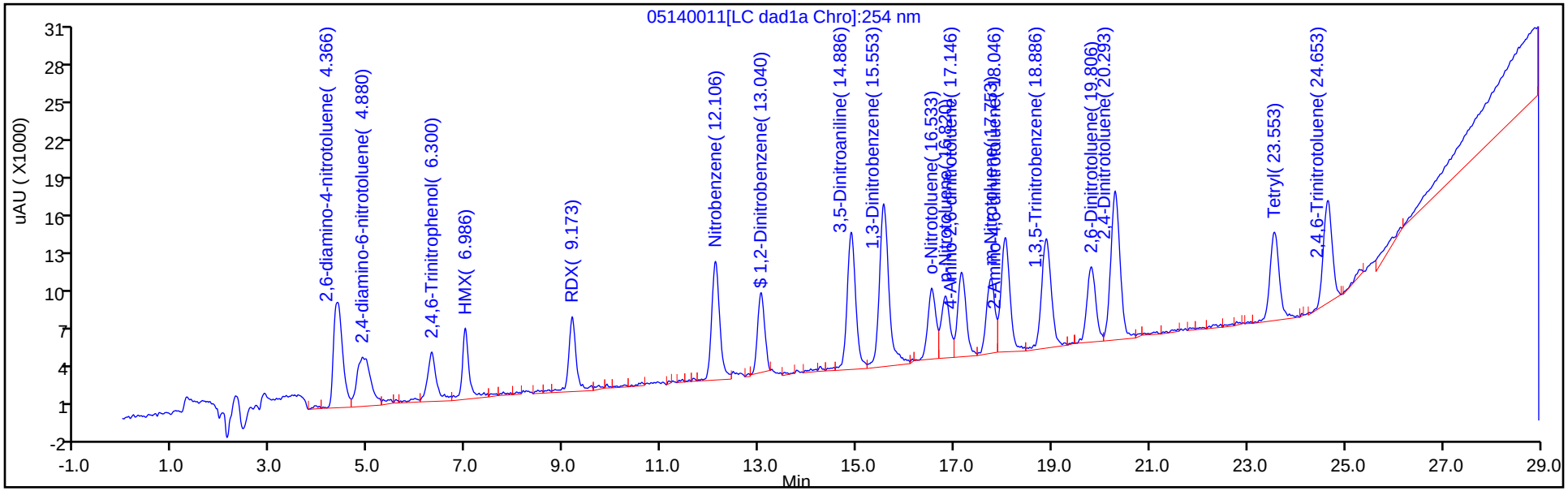
8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00026	Amount Added:	12.50	Units: uL

Report Date: 15-May-2020 12:00:57 Chrom Revision: 2.3 05-May-2020 17:48:18

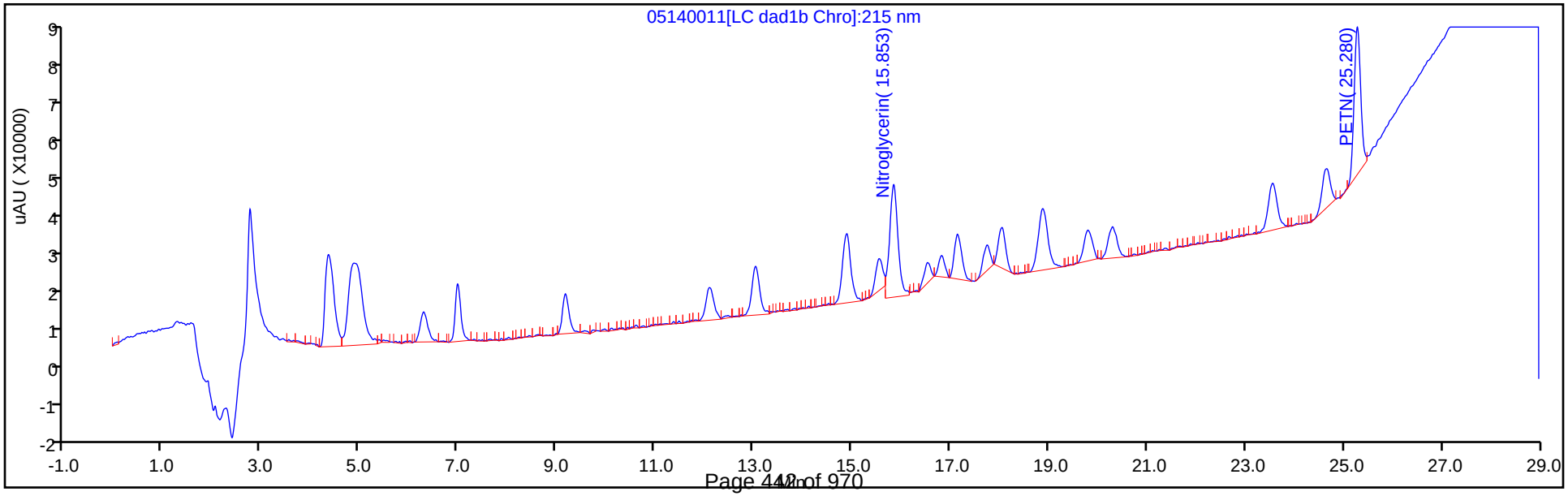
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d				
Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 5			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

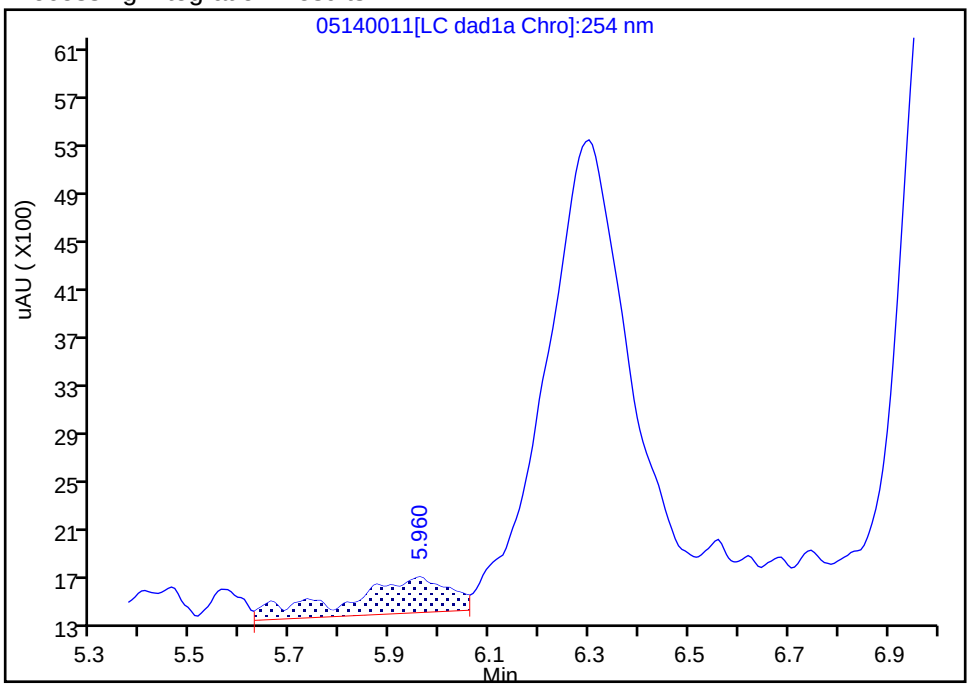
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d				
Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

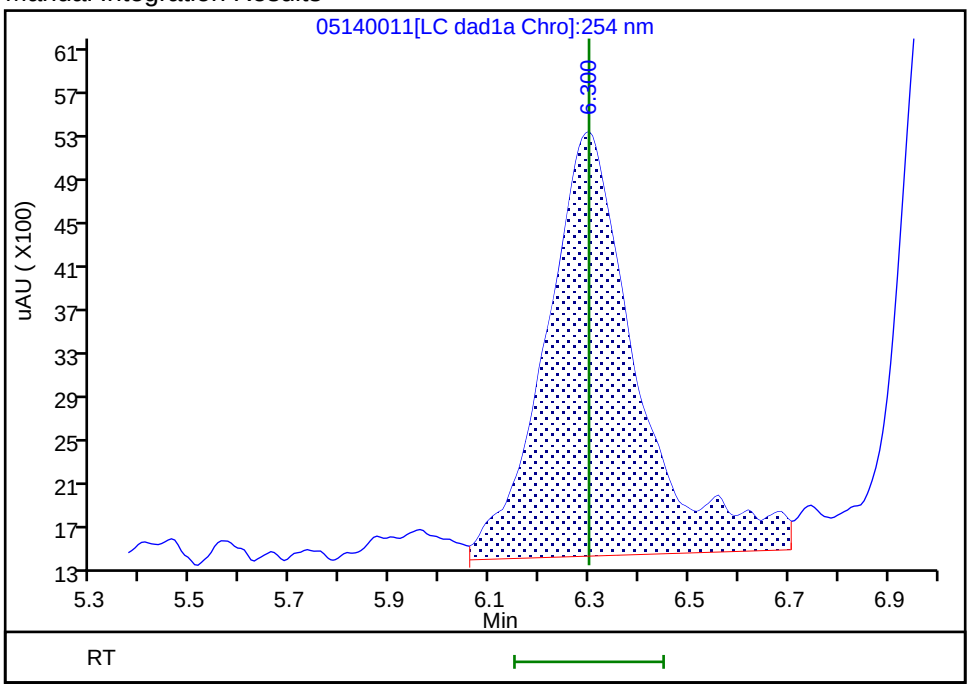
Processing Integration Results

RT: 5.96
Area: 4251
Amount: 0.036696
Amount Units: ug/ml



Manual Integration Results

RT: 6.30
Area: 48614
Amount: 0.250833
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:52
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

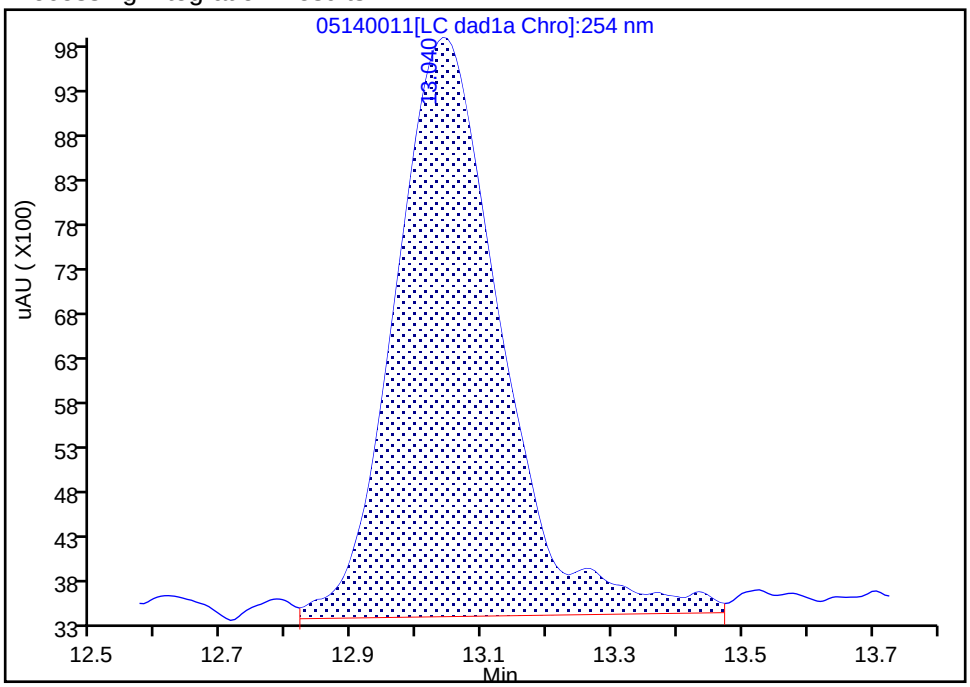
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d				
Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

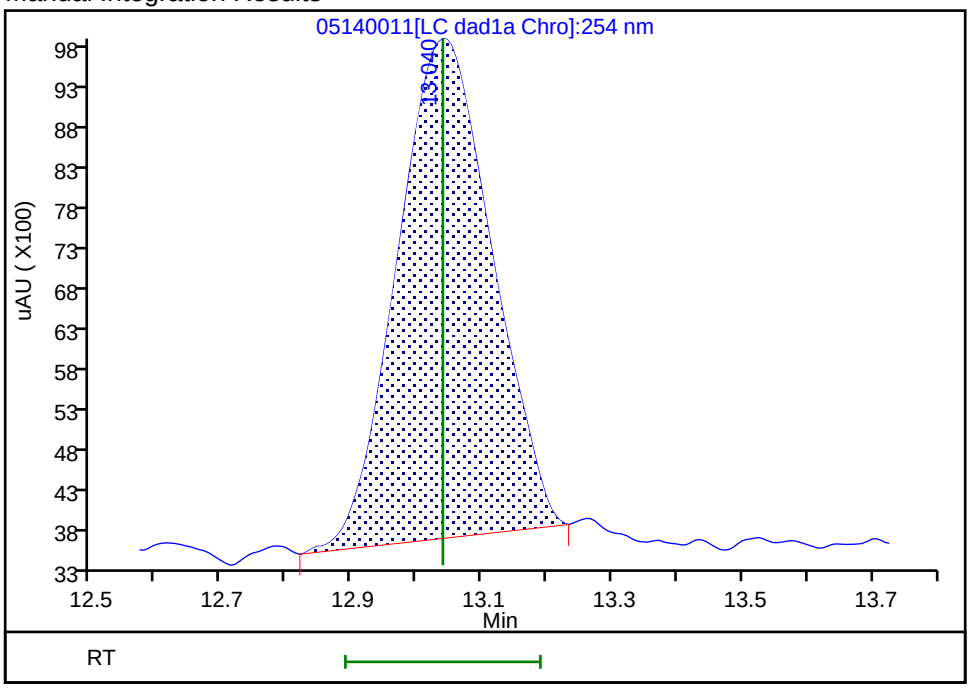
Processing Integration Results

RT: 13.04
Area: 73345
Amount: 0.234804
Amount Units: ug/ml



Manual Integration Results

RT: 13.04
Area: 62375
Amount: 0.218362
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:35:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

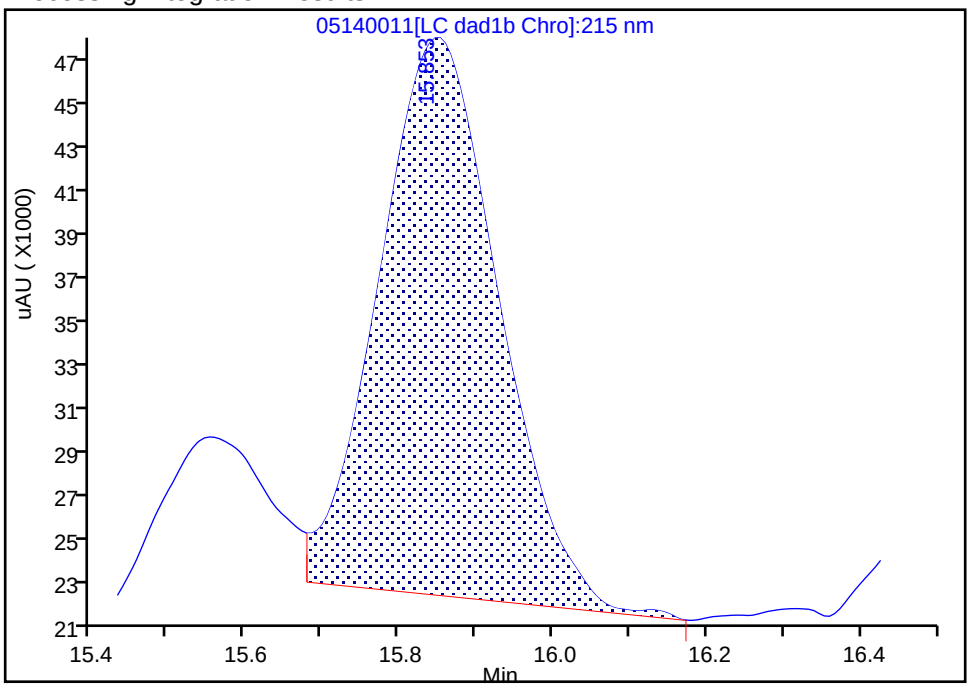
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d				
Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

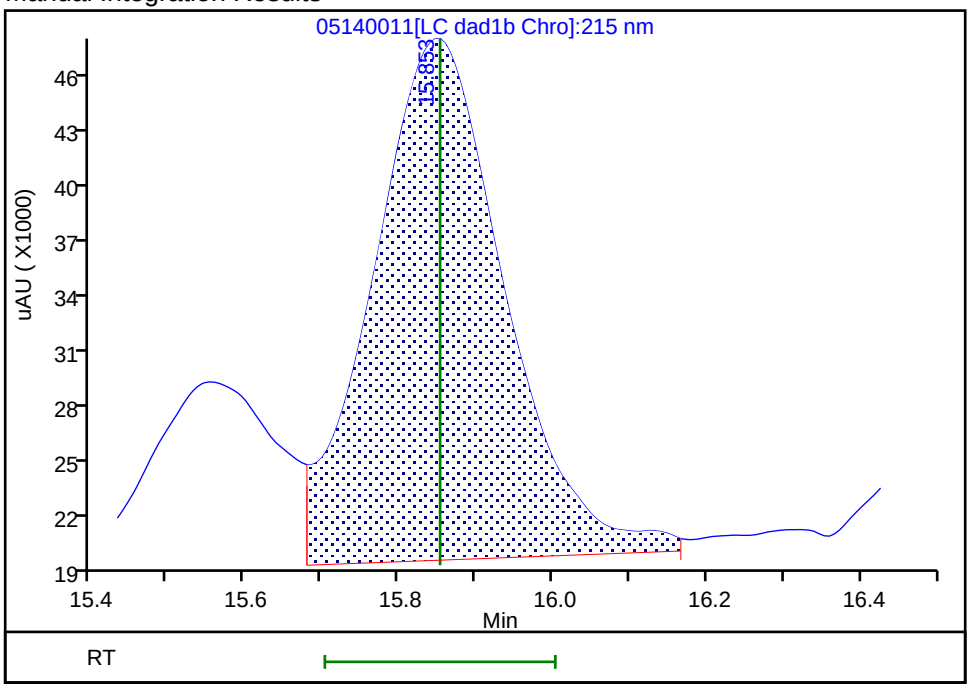
Processing Integration Results

RT: 15.85
Area: 276053
Amount: 2.464482
Amount Units: ug/ml



Manual Integration Results

RT: 15.85
Area: 330378
Amount: 2.605436
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:32:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

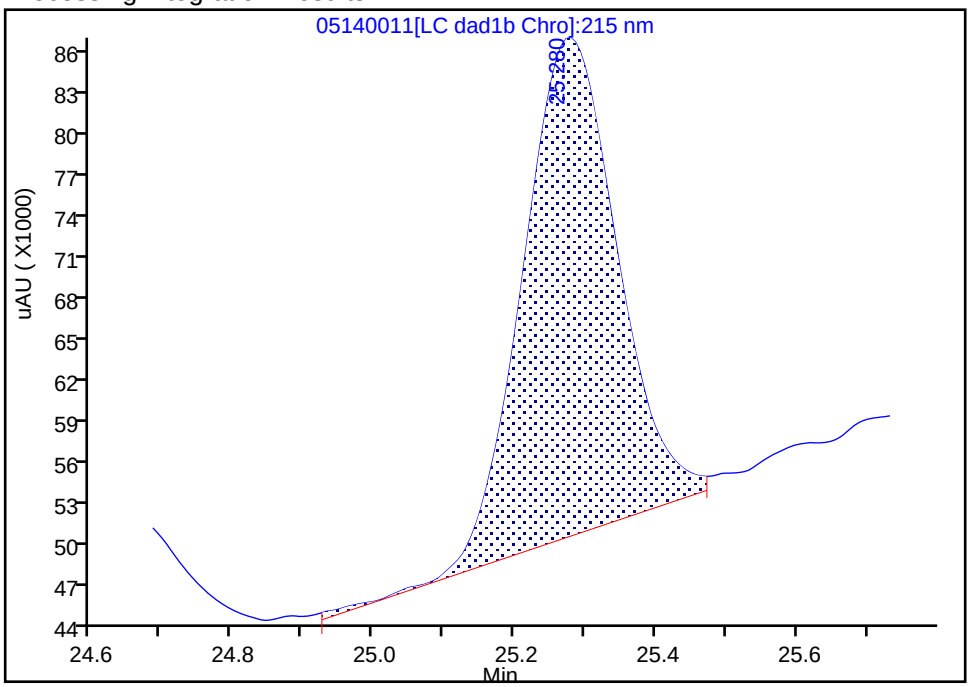
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d				
Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

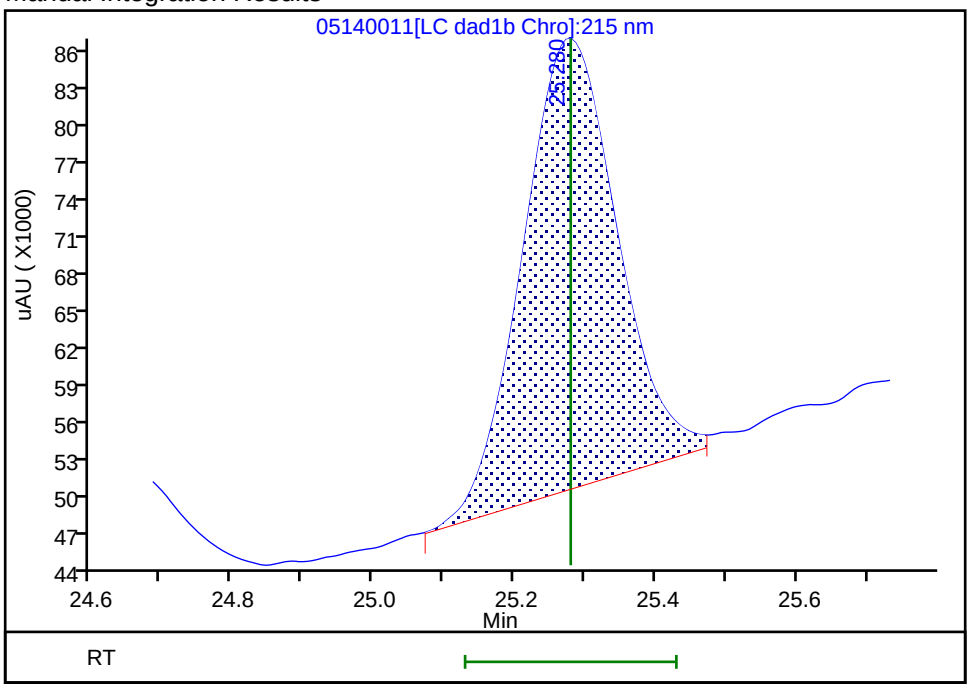
Processing Integration Results

RT: 25.28
Area: 339815
Amount: 2.534573
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 338241
Amount: 2.404524
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:25:08

Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140012.D
Lims ID: IC FULL 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-May-2020 19:11:37 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 4
Misc. Info.: 280-0091518-012
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:57 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:21:52

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	4.361	4.366	-0.005	44739	0.1000	0.1042	
2 2,4-diamino-6-nitrotoluene	1	4.941	4.880	0.061	33889	0.1000	0.1193	
5 2,4,6-Trinitrophenol	1	6.308	6.300	0.008	23170	0.1000	0.1195	a
6 HMX	1	6.994	6.986	0.008	24294	0.1000	0.1072	
8 RDX	1	9.181	9.173	0.008	27233	0.1000	0.1114	
9 Nitrobenzene	1	12.114	12.106	0.008	42679	0.1004	0.0972	
$ 10 1,2-Dinitrobenzene	1	13.048	13.040	0.008	30683	0.1000	0.1040	
11 3,5-Dinitroaniline	1	14.901	14.886	0.015	51716	0.1000	0.1009	M
12 1,3-Dinitrobenzene	1	15.554	15.553	0.001	69012	0.1002	0.1024	M
13 Nitroglycerin	2	15.848	15.853	-0.005	141489	1.00	1.12	M
14 o-Nitrotoluene	1	16.534	16.533	0.001	29062	0.1000	0.1065	M
15 p-Nitrotoluene	1	16.828	16.820	0.008	25956	0.1002	0.1078	M
16 4-Amino-2,6-dinitrotoluene	1	17.148	17.146	0.002	32448	0.1001	0.0940	M
17 m-Nitrotoluene	1	17.741	17.753	-0.012	30586	0.1001	0.1025	M
18 2-Amino-4,6-dinitrotoluene	1	18.054	18.046	0.008	47526	0.1004	0.1022	M
19 1,3,5-Trinitrobenzene	1	18.881	18.886	-0.005	51028	0.1002	0.1080	M
20 2,6-Dinitrotoluene	1	19.794	19.806	-0.012	34659	0.1004	0.1045	M
21 2,4-Dinitrotoluene	1	20.288	20.293	-0.005	67500	0.1004	0.1055	M
22 Tetryl	1	23.548	23.553	-0.005	38547	0.1002	0.1046	
23 2,4,6-Trinitrotoluene	1	24.654	24.653	0.001	43208	0.1004	0.0997	
24 PETN	2	25.281	25.280	0.001	132172	1.00	0.8106	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

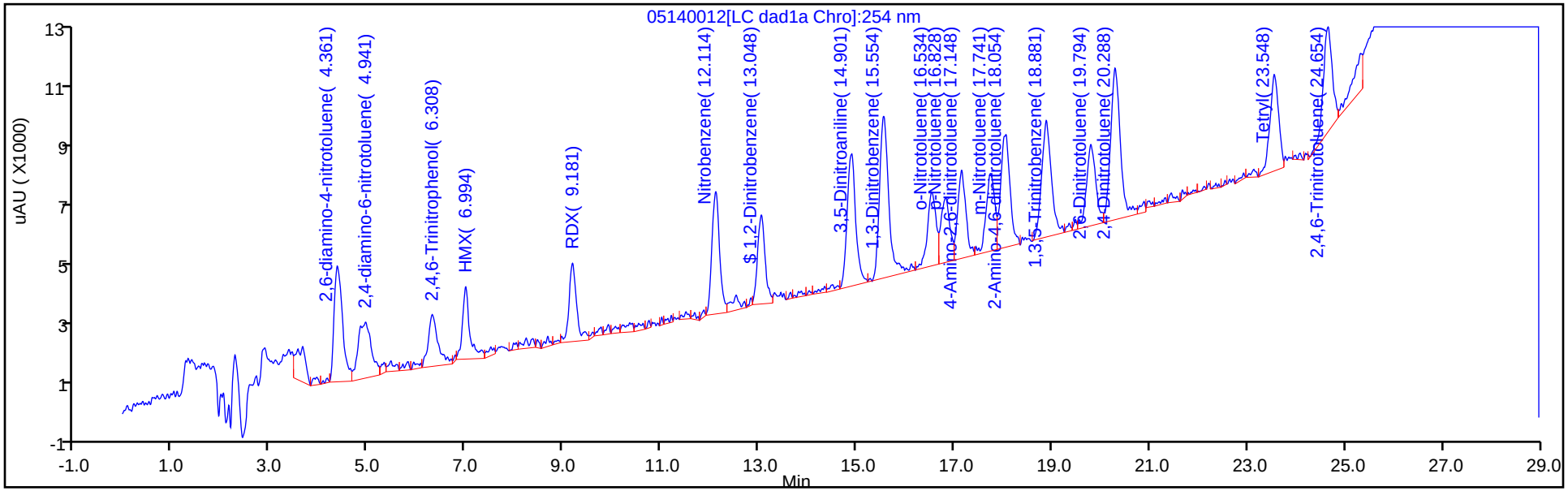
8330IntermStk_00064	Amount Added: 10.00	Units: uL
8330_ADDs_00026	Amount Added: 5.00	Units: uL

Report Date: 15-May-2020 12:00:57 Chrom Revision: 2.3 05-May-2020 17:48:18

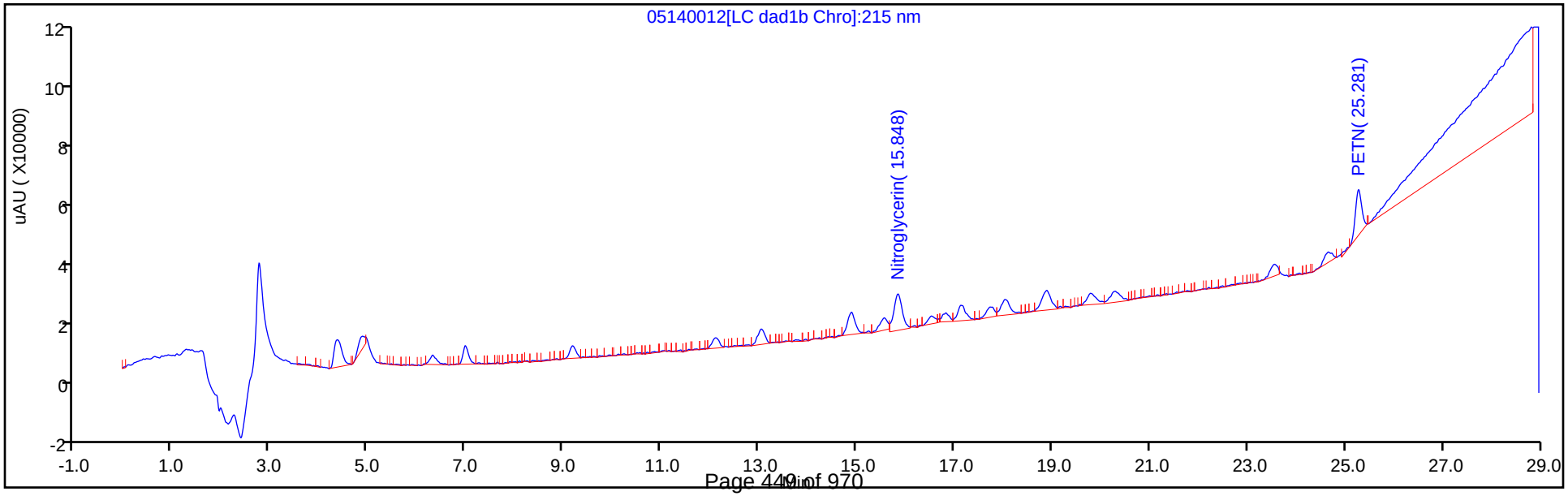
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 4			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

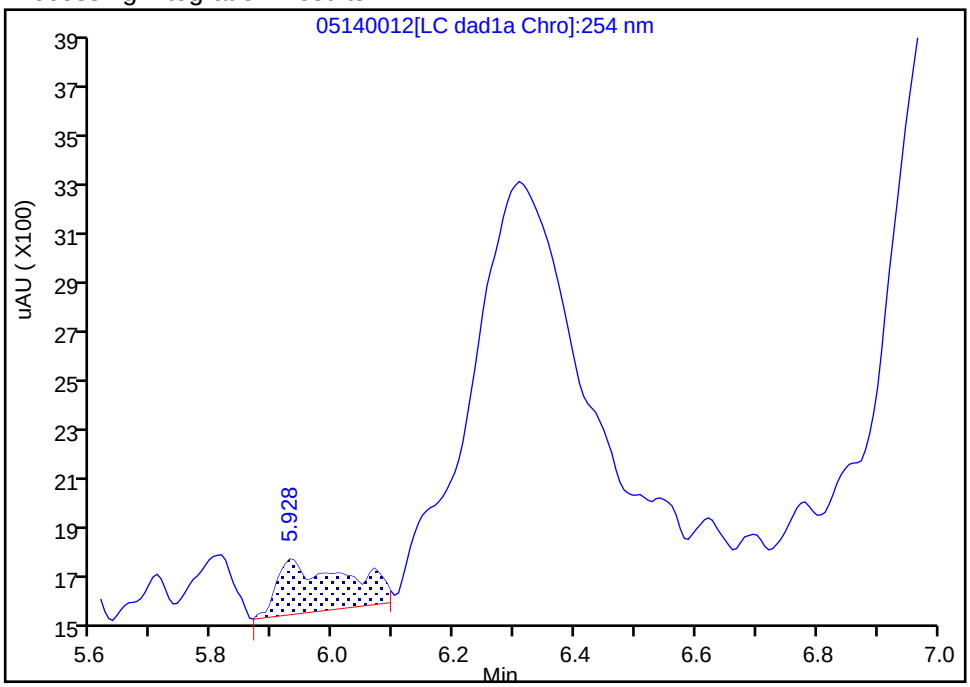
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

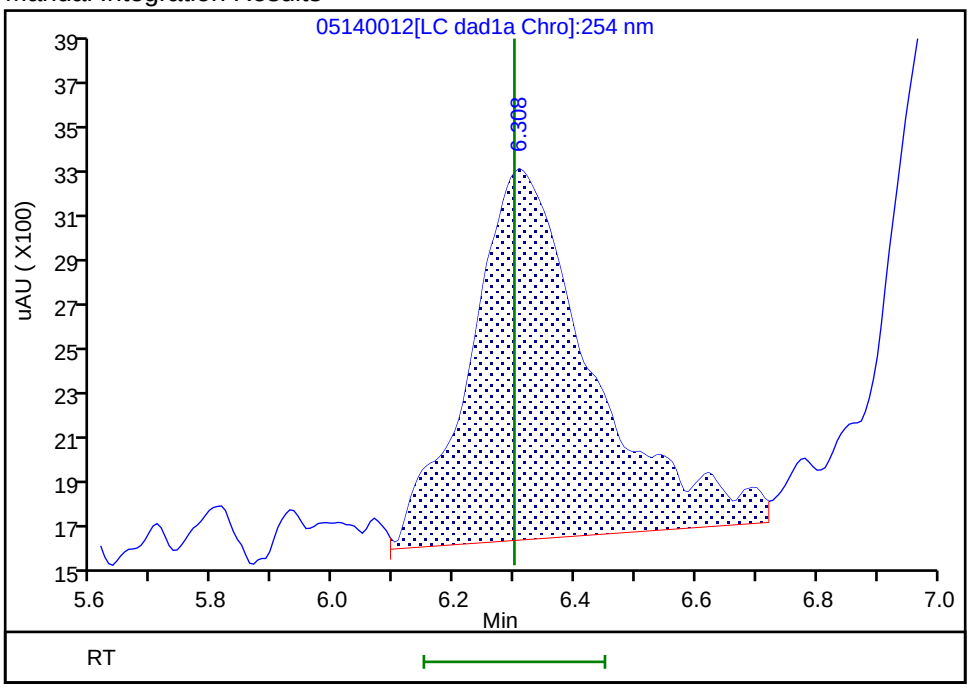
Processing Integration Results

RT: 5.93
Area: 1700
Amount: 0.010784
Amount Units: ug/ml



Manual Integration Results

RT: 6.31
Area: 23170
Amount: 0.119550
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:21
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

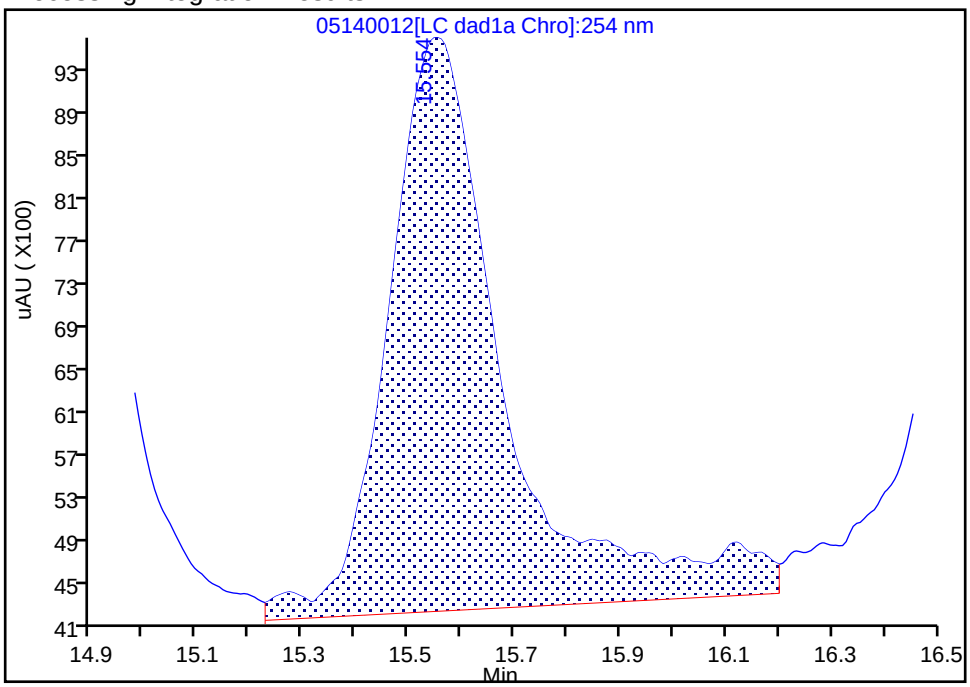
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

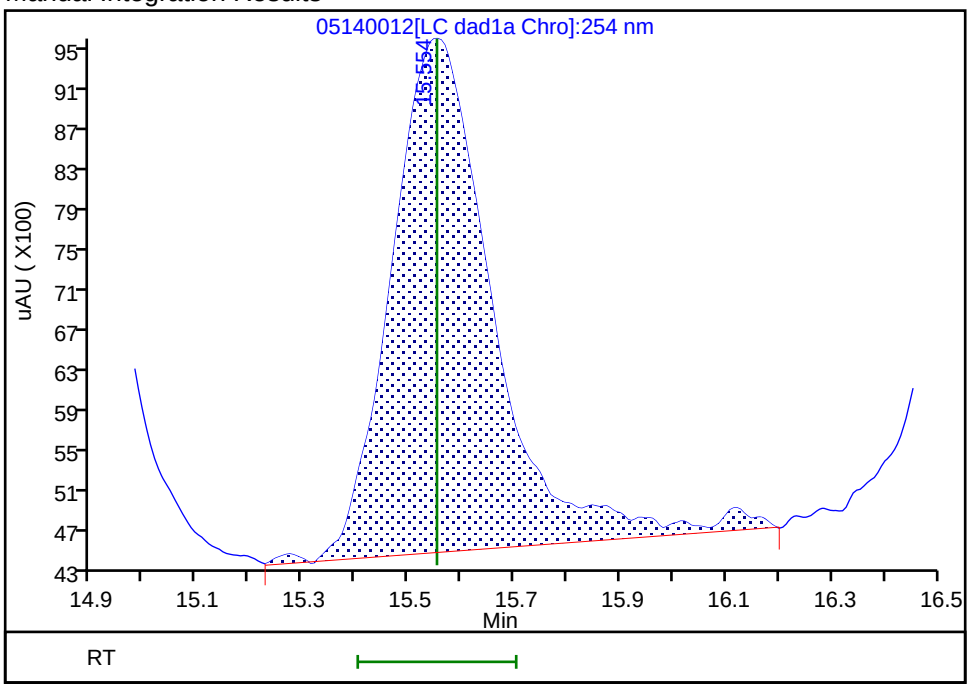
Processing Integration Results

RT: 15.55
Area: 81626
Amount: 0.119366
Amount Units: ug/ml



Manual Integration Results

RT: 15.55
Area: 69012
Amount: 0.102363
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

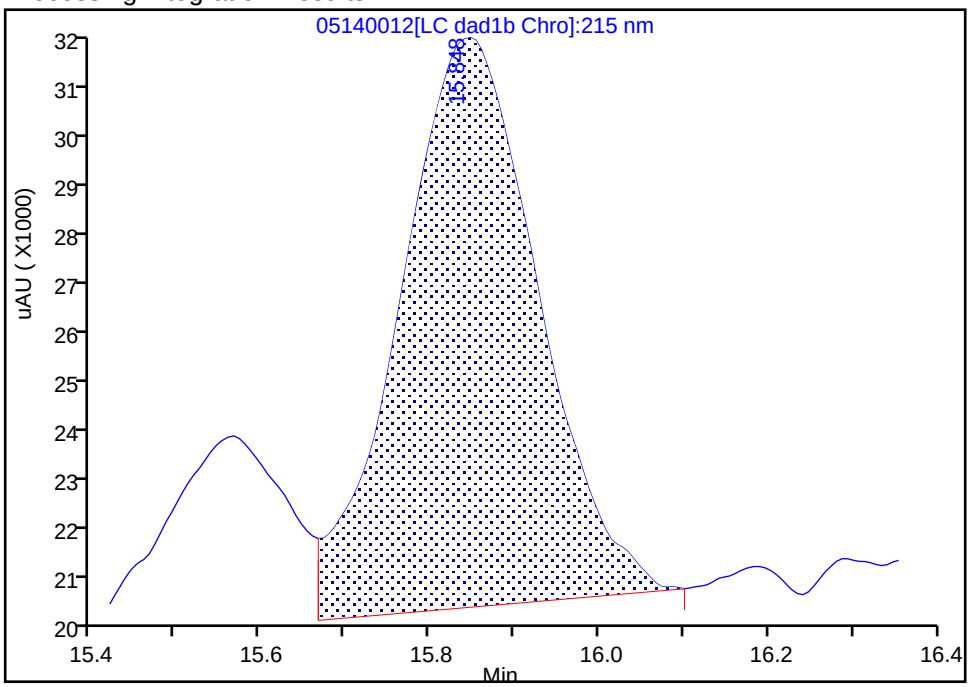
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

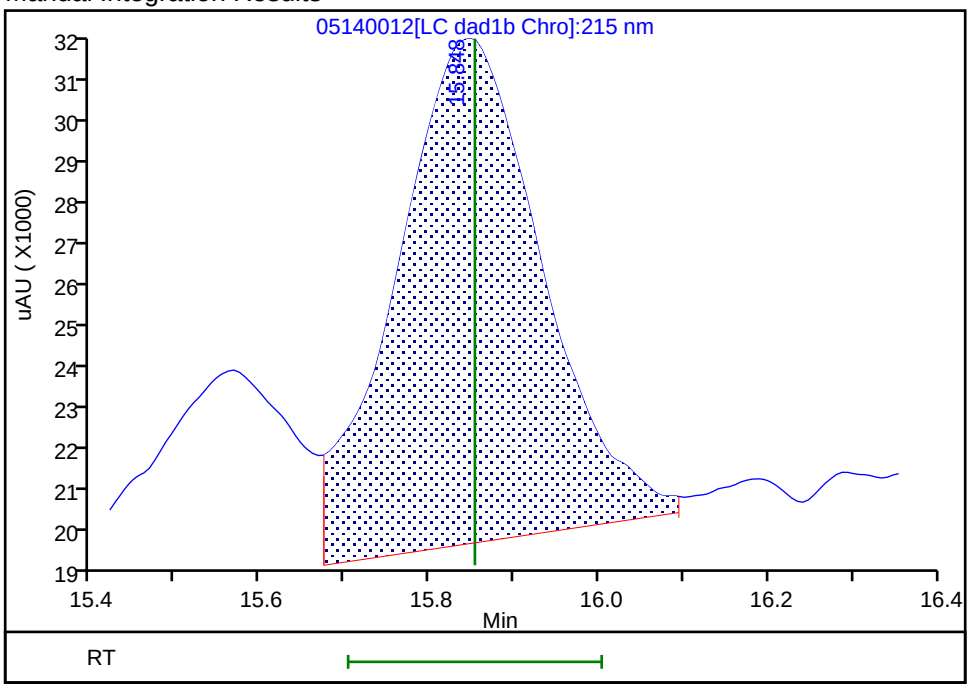
Processing Integration Results

RT: 15.85
Area: 125471
Amount: 1.093631
Amount Units: ug/ml



Manual Integration Results

RT: 15.85
Area: 141489
Amount: 1.115815
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:32:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

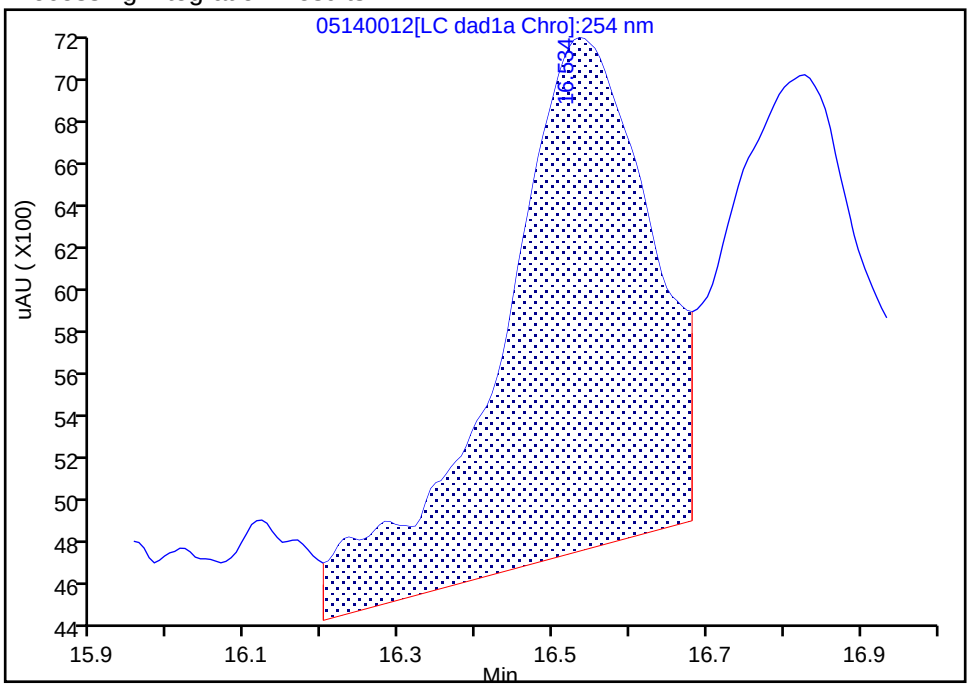
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

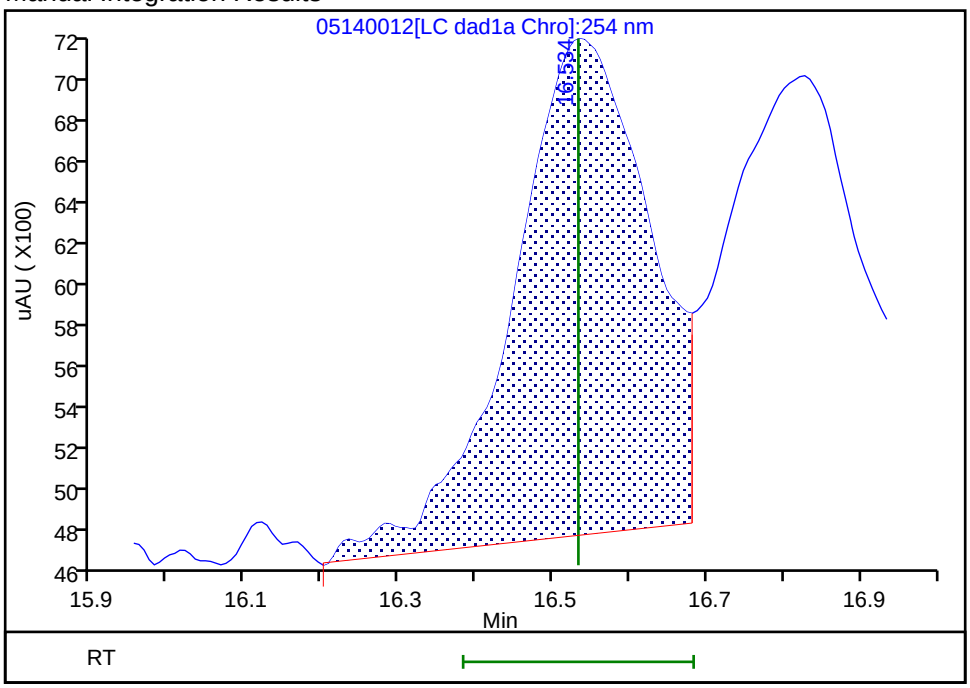
Processing Integration Results

RT: 16.53
Area: 33080
Amount: 0.118510
Amount Units: ug/ml



Manual Integration Results

RT: 16.53
Area: 29062
Amount: 0.106468
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

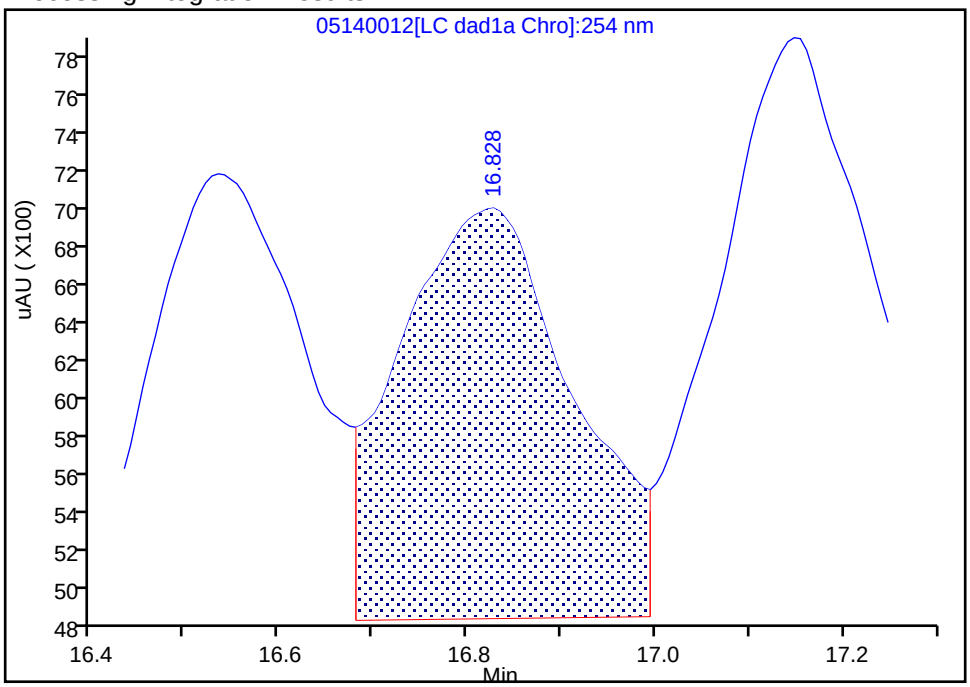
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

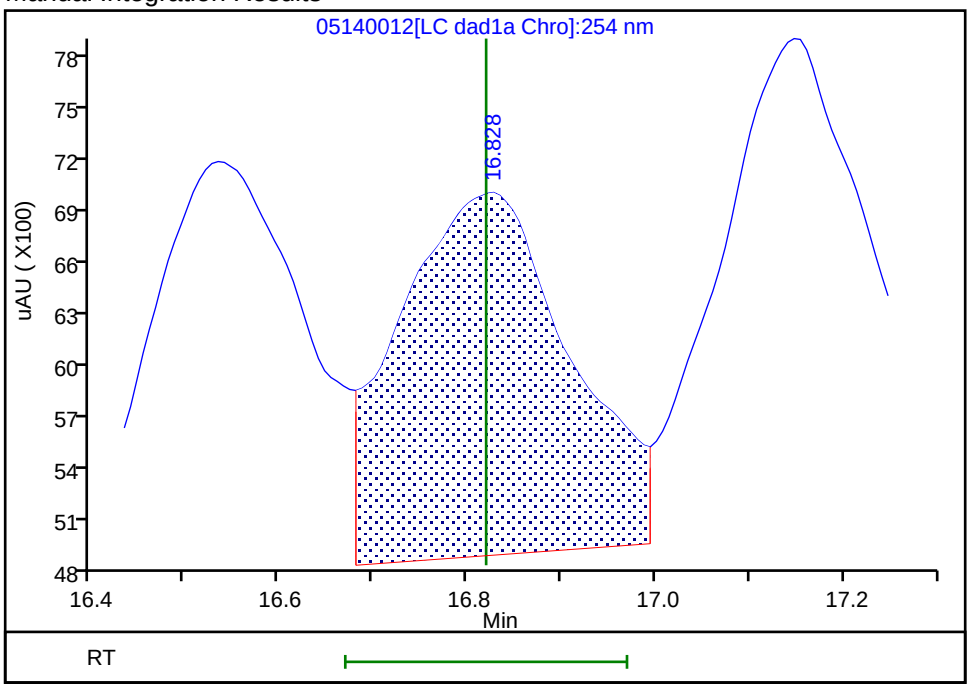
Processing Integration Results

RT: 16.83
Area: 26887
Amount: 0.106277
Amount Units: ug/ml



Manual Integration Results

RT: 16.83
Area: 25956
Amount: 0.107754
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

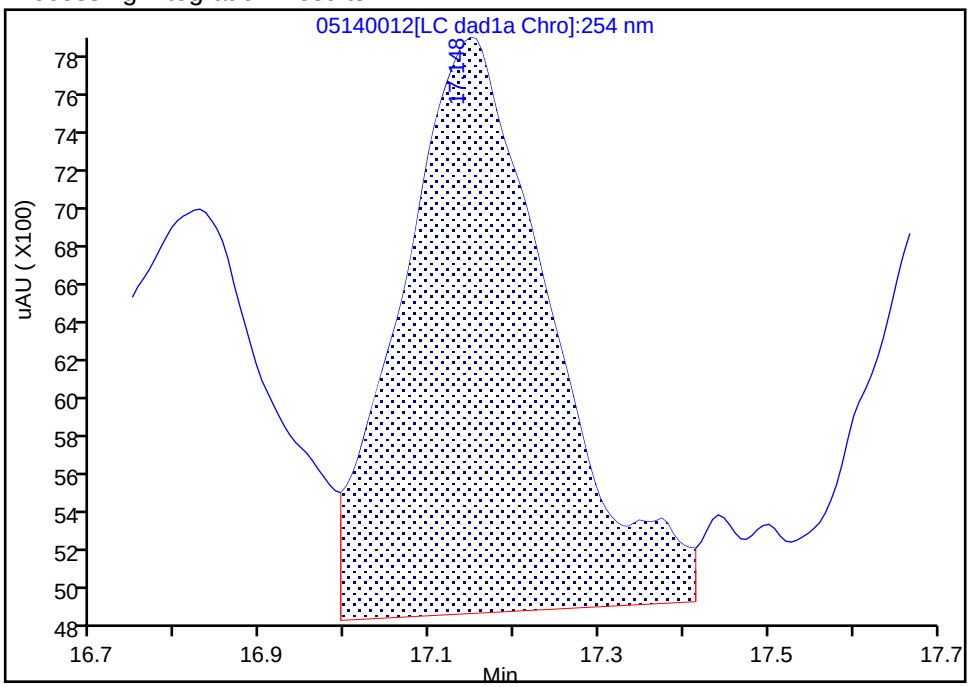
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

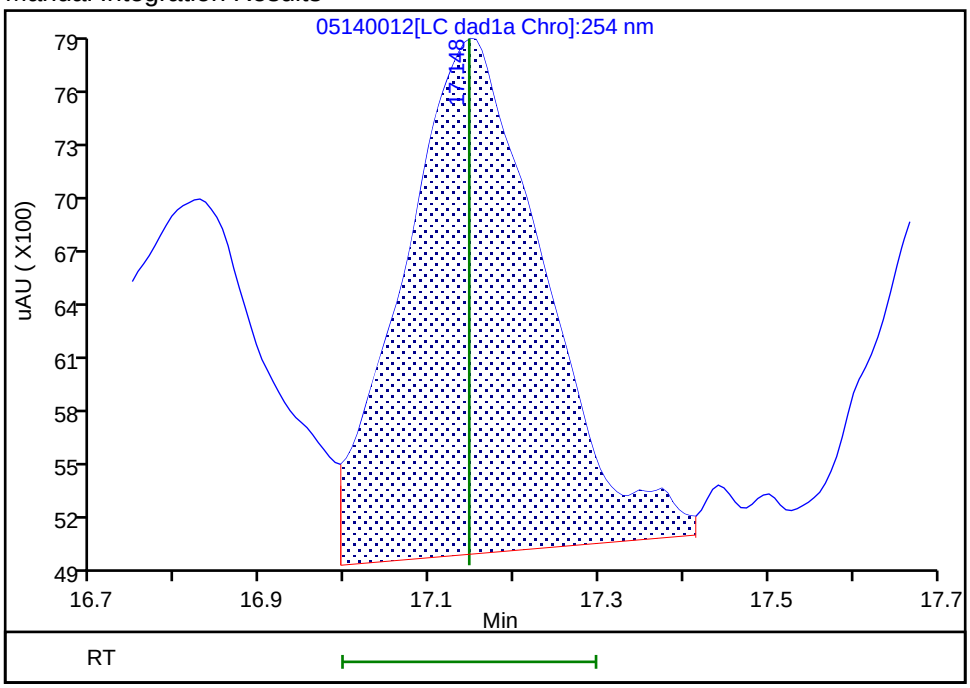
Processing Integration Results

RT: 17.15
Area: 35863
Amount: 0.102237
Amount Units: ug/ml



Manual Integration Results

RT: 17.15
Area: 32448
Amount: 0.093988
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

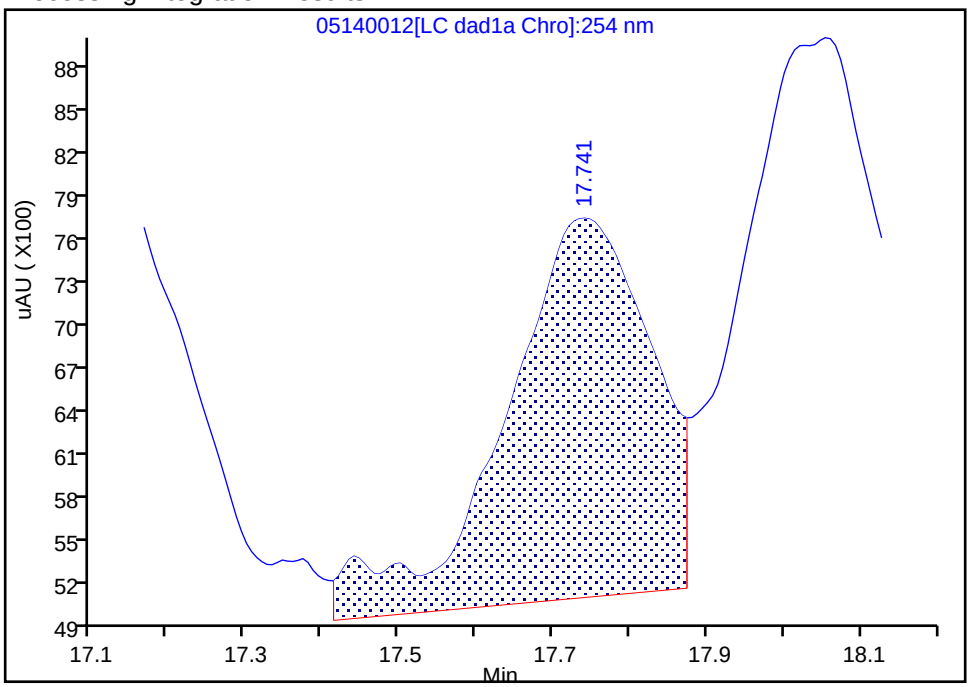
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

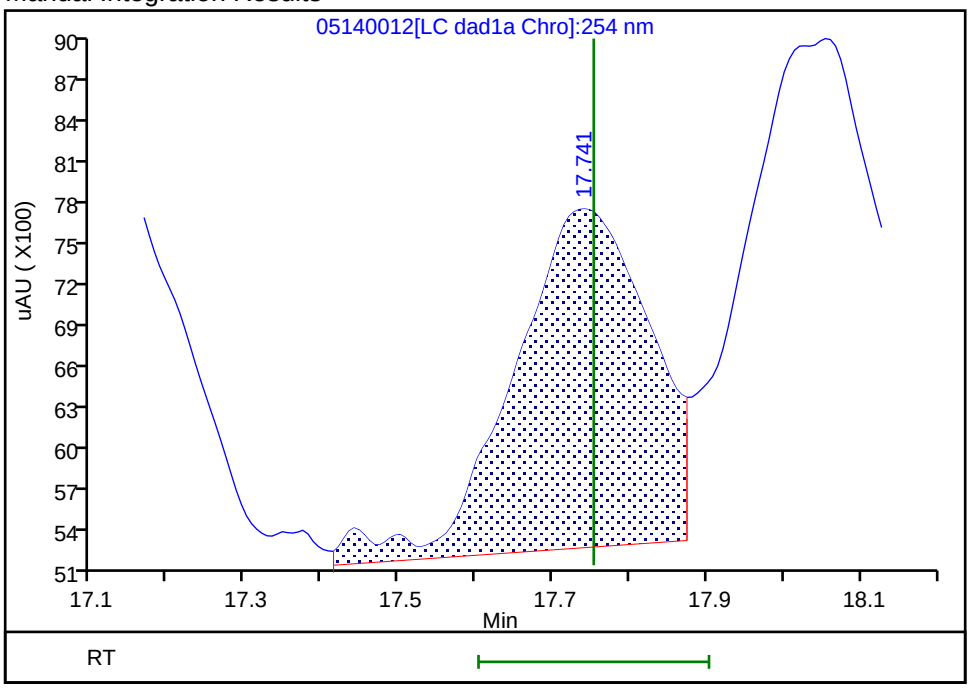
Processing Integration Results

RT: 17.74
Area: 34712
Amount: 0.117045
Amount Units: ug/ml



Manual Integration Results

RT: 17.74
Area: 30586
Amount: 0.102525
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

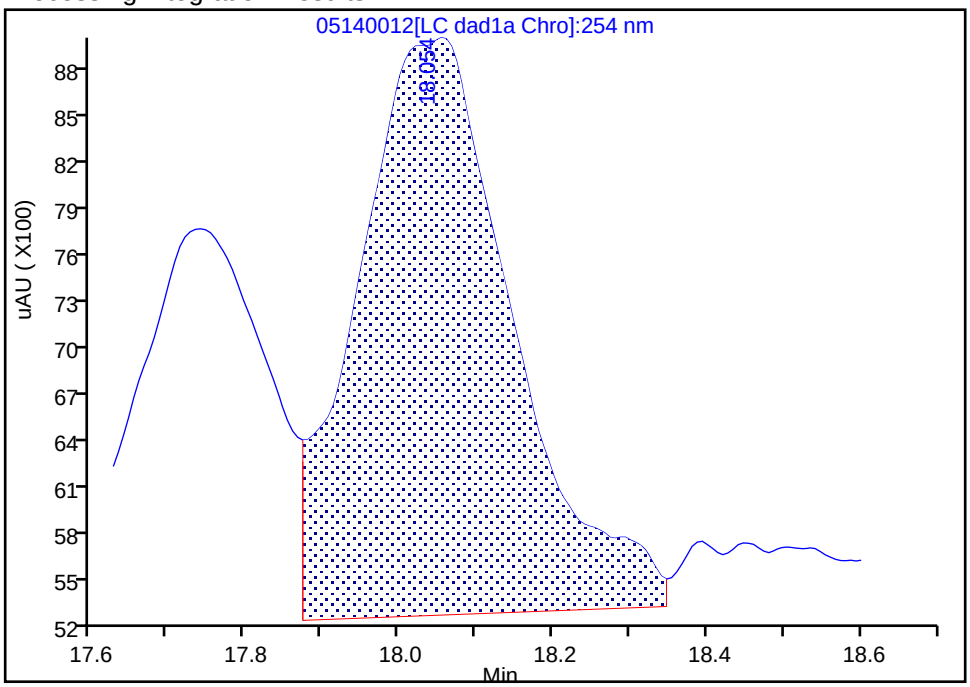
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

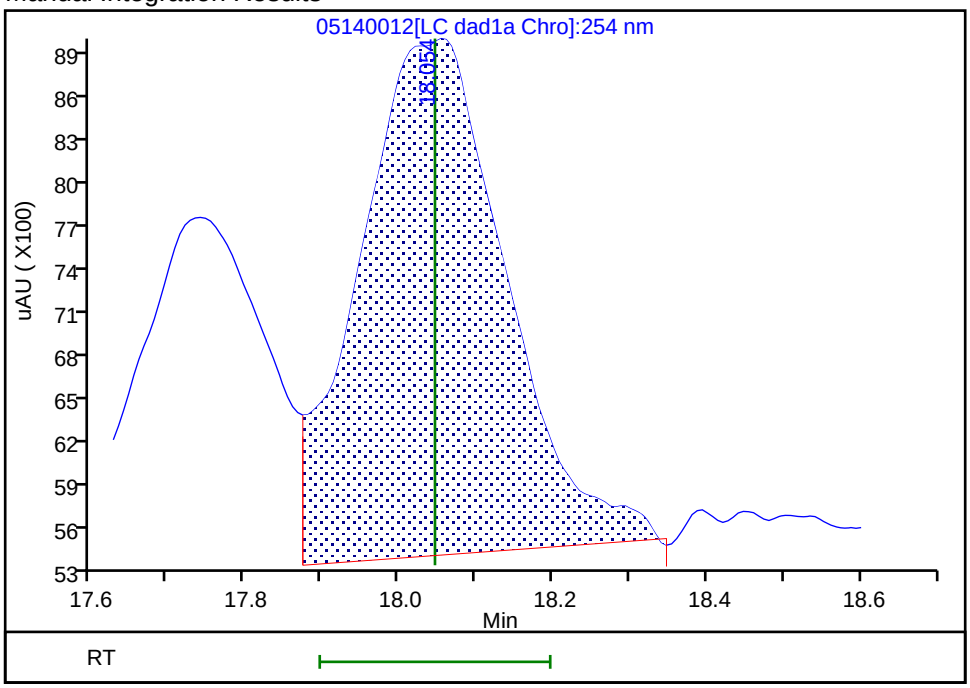
Processing Integration Results

RT: 18.05
Area: 52538
Amount: 0.110599
Amount Units: ug/ml



Manual Integration Results

RT: 18.05
Area: 47526
Amount: 0.102160
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

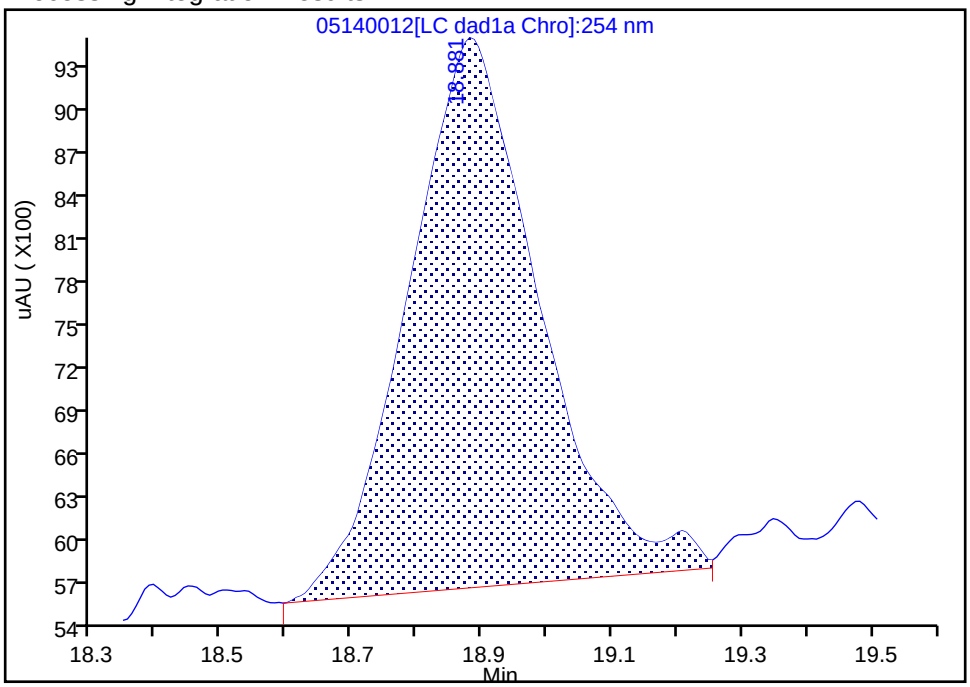
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

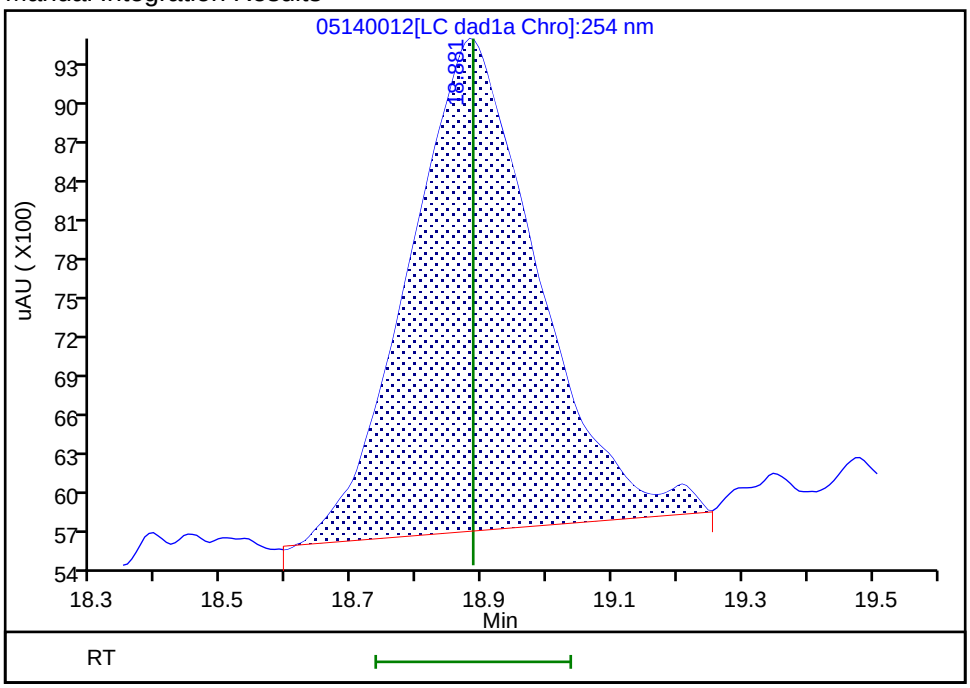
Processing Integration Results

RT: 18.88
Area: 52433
Amount: 0.109995
Amount Units: ug/ml



Manual Integration Results

RT: 18.88
Area: 51028
Amount: 0.108007
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

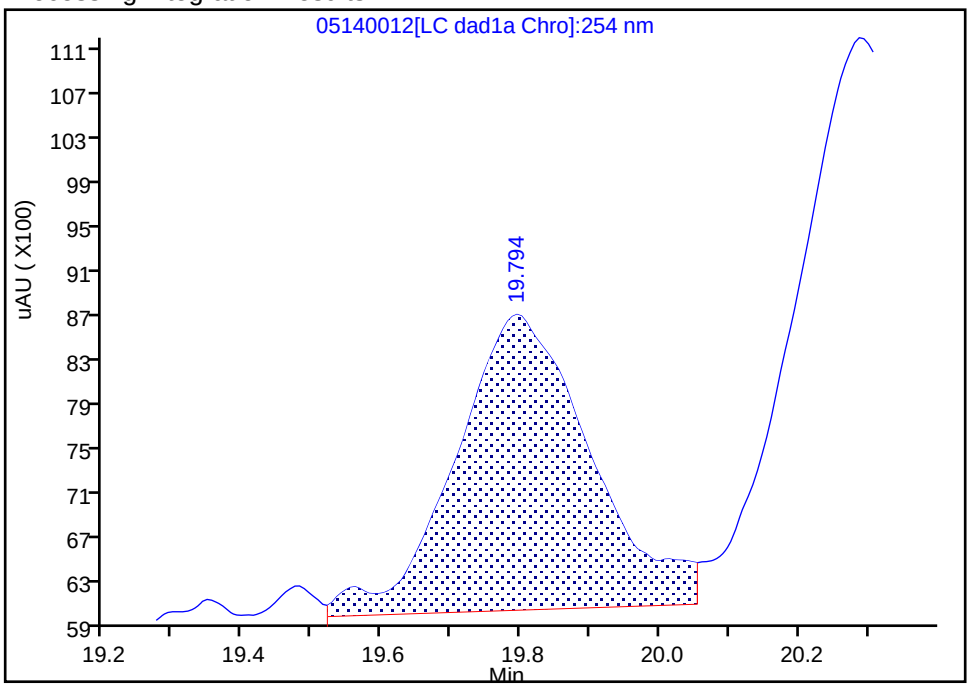
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

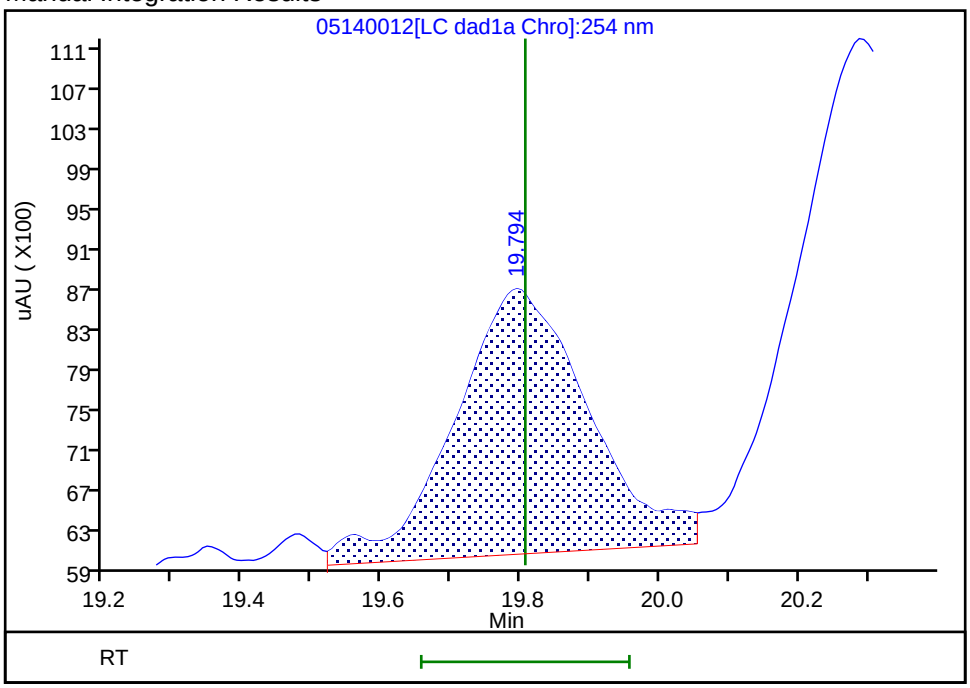
Processing Integration Results

RT: 19.79
Area: 35123
Amount: 0.102517
Amount Units: ug/ml



Manual Integration Results

RT: 19.79
Area: 34659
Amount: 0.104499
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

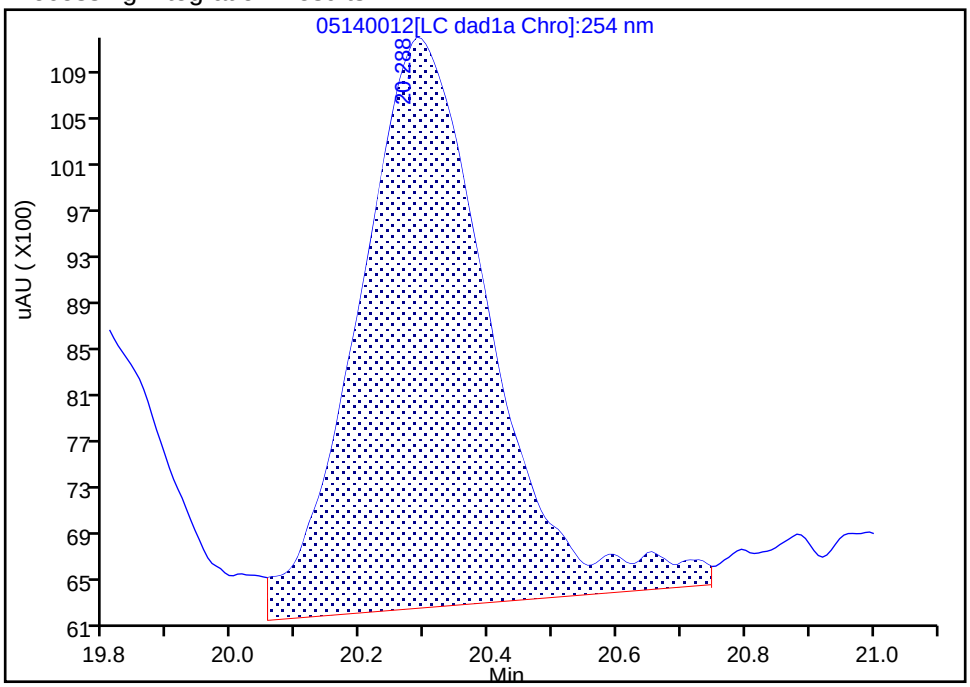
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

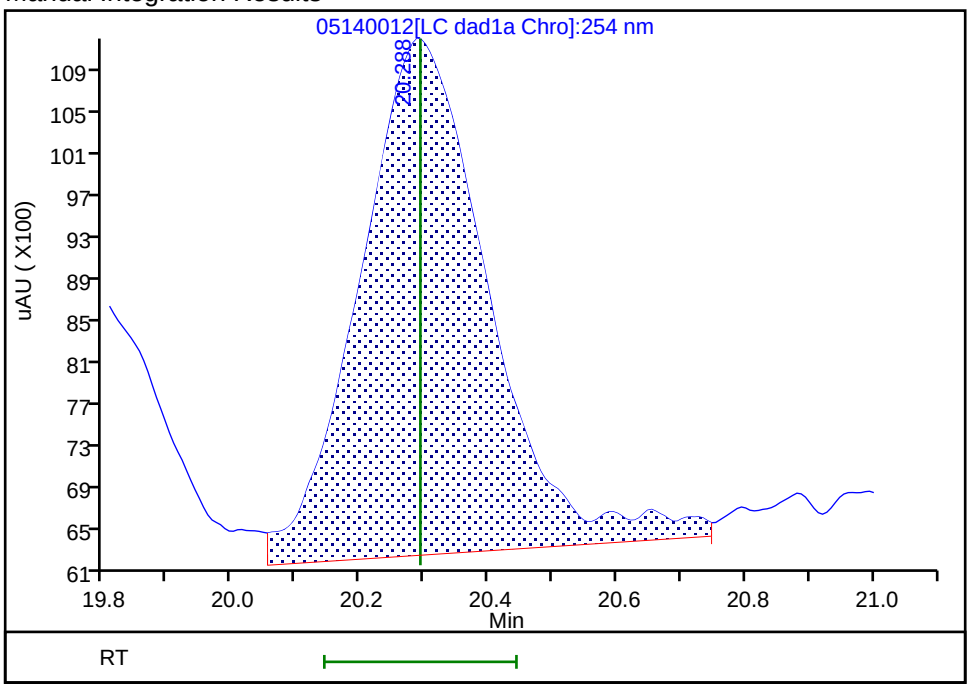
Processing Integration Results

RT: 20.29
Area: 69455
Amount: 0.105715
Amount Units: ug/ml



Manual Integration Results

RT: 20.29
Area: 67500
Amount: 0.105450
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

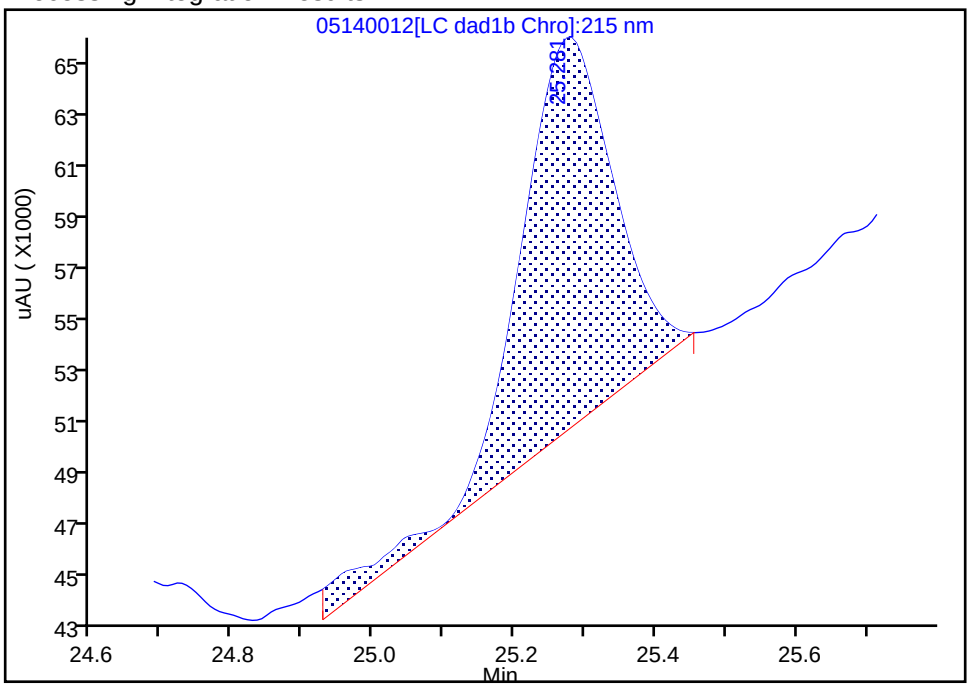
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

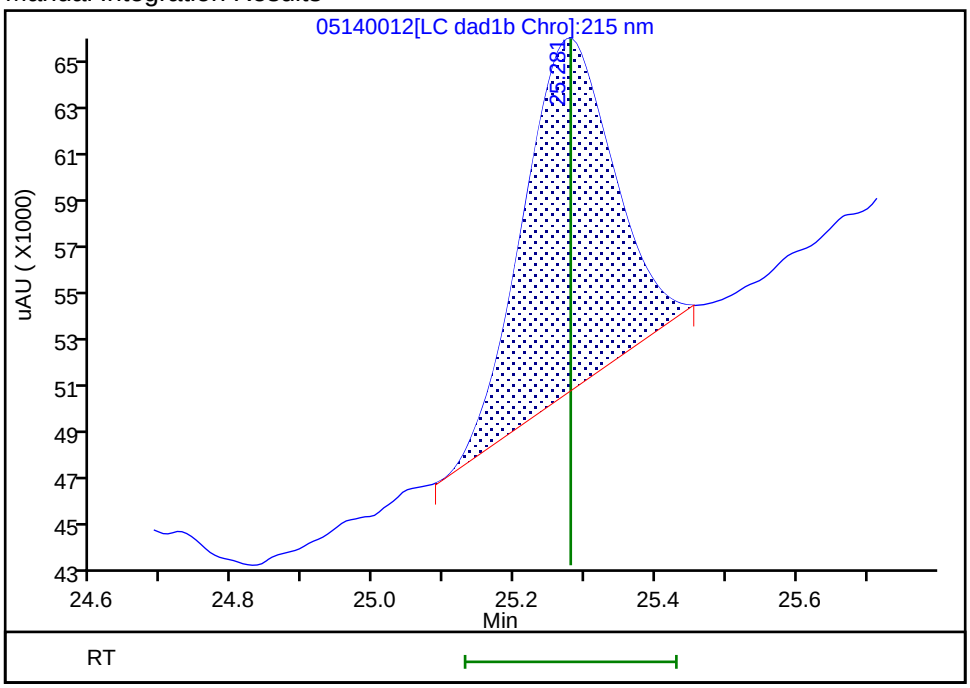
Processing Integration Results

RT: 25.28
Area: 139443
Amount: 1.011611
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 132172
Amount: 0.810643
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:24:59

Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140013.D
Lims ID: IC FULL 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-May-2020 19:46:37 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 3
Misc. Info.: 280-0091518-013
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:58 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:22:17

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	4.357	4.366	-0.009	22969	0.0500	0.0535	
2 2,4-diamino-6-nitrotoluene	1	4.851	4.880	-0.029	16562	0.0500	0.0464	
5 2,4,6-Trinitrophenol	1	6.331	6.300	0.031	9462	0.0500	0.0488	a
6 HMX	1	6.984	6.986	-0.002	12646	0.0500	0.0414	
8 RDX	1	9.184	9.173	0.011	15119	0.0500	0.0619	
9 Nitrobenzene	1	12.110	12.106	0.004	28424	0.0502	0.0647	
$ 10 1,2-Dinitrobenzene	1	13.037	13.040	-0.003	18744	0.0500	0.0610	M
11 3,5-Dinitroaniline	1	14.890	14.886	0.004	27916	0.0500	0.0518	M
12 1,3-Dinitrobenzene	1	15.544	15.553	-0.009	37161	0.0501	0.0551	M
13 Nitroglycerin	2	15.844	15.853	-0.009	64042	0.5000	0.5050	M
14 o-Nitrotoluene	1	16.550	16.533	0.017	16003	0.0500	0.0586	M
15 p-Nitrotoluene	1	16.837	16.820	0.017	15492	0.0501	0.0643	M
16 4-Amino-2,6-dinitrotoluene	1	17.157	17.146	0.011	22118	0.0501	0.0641	M
17 m-Nitrotoluene	1	17.724	17.753	-0.029	19280	0.0501	0.0646	M
18 2-Amino-4,6-dinitrotoluene	1	18.030	18.046	-0.016	28982	0.0502	0.0623	M
19 1,3,5-Trinitrobenzene	1	18.864	18.886	-0.022	26649	0.0501	0.0564	M
20 2,6-Dinitrotoluene	1	19.817	19.806	0.011	19107	0.0502	0.0507	M
21 2,4-Dinitrotoluene	1	20.290	20.293	-0.003	37302	0.0502	0.0583	M
22 Tetryl	1	23.557	23.553	0.004	20202	0.0501	0.0548	
23 2,4,6-Trinitrotoluene	1	24.637	24.653	-0.016	28366	0.0502	0.0628	
24 PETN	2	25.277	25.280	-0.003	102120	0.5000	0.5782	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

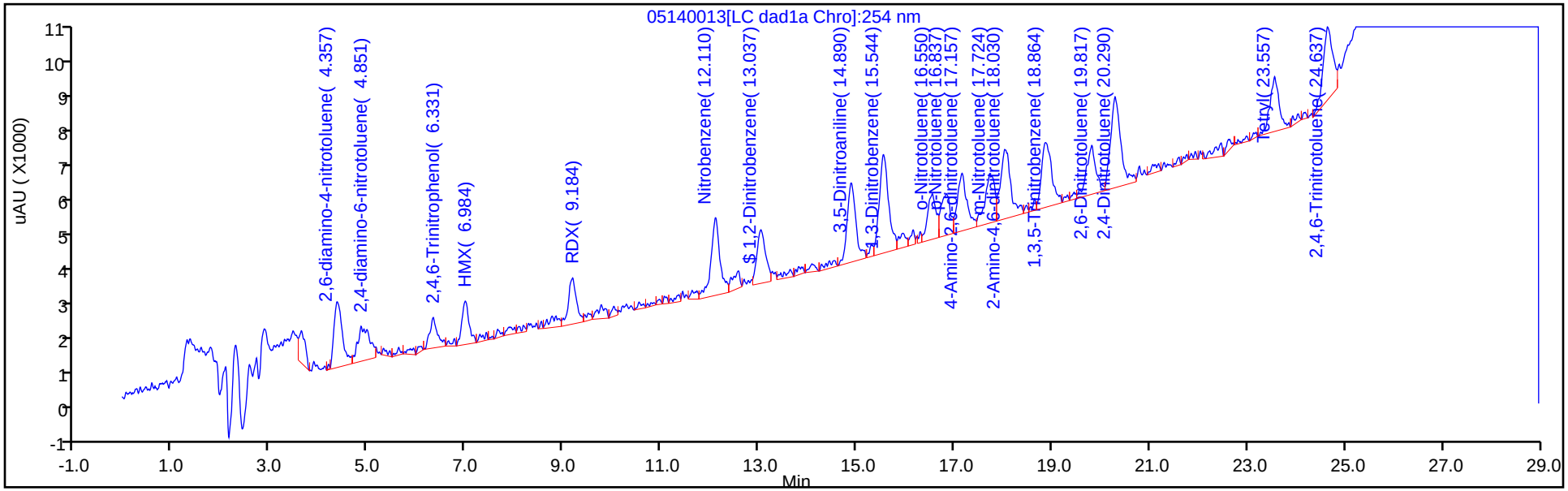
8330IntermStk_00064	Amount Added:	5.00	Units: uL
8330_ADDs_00026	Amount Added:	2.50	Units: uL

Report Date: 15-May-2020 12:00:58 Chrom Revision: 2.3 05-May-2020 17:48:18

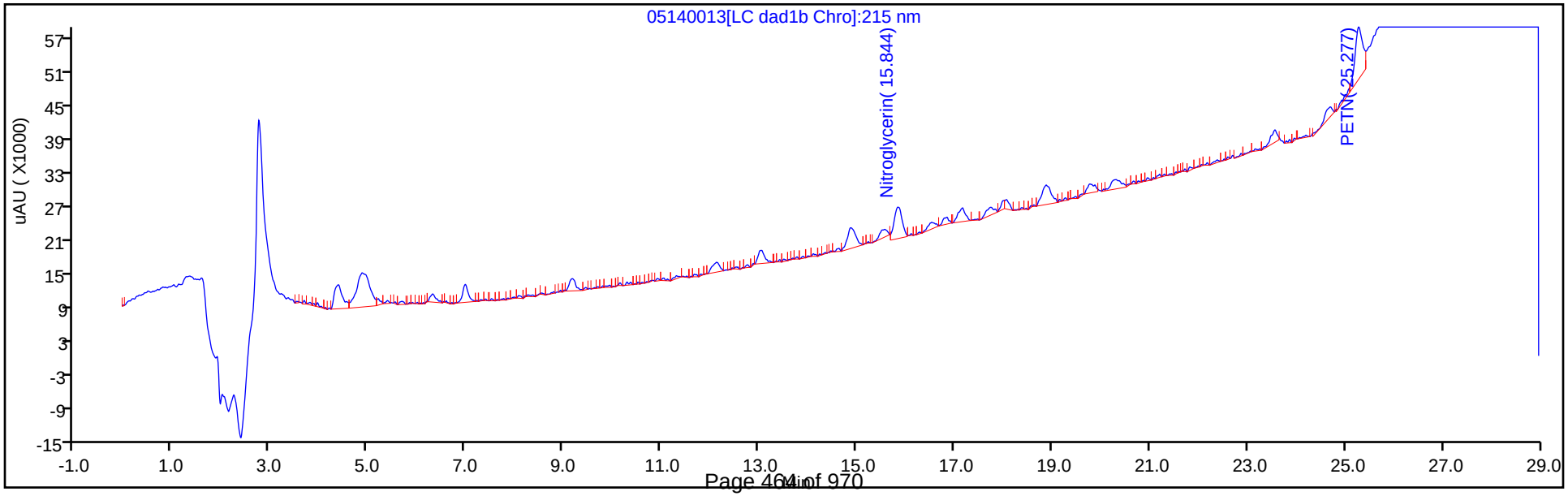
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 3			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

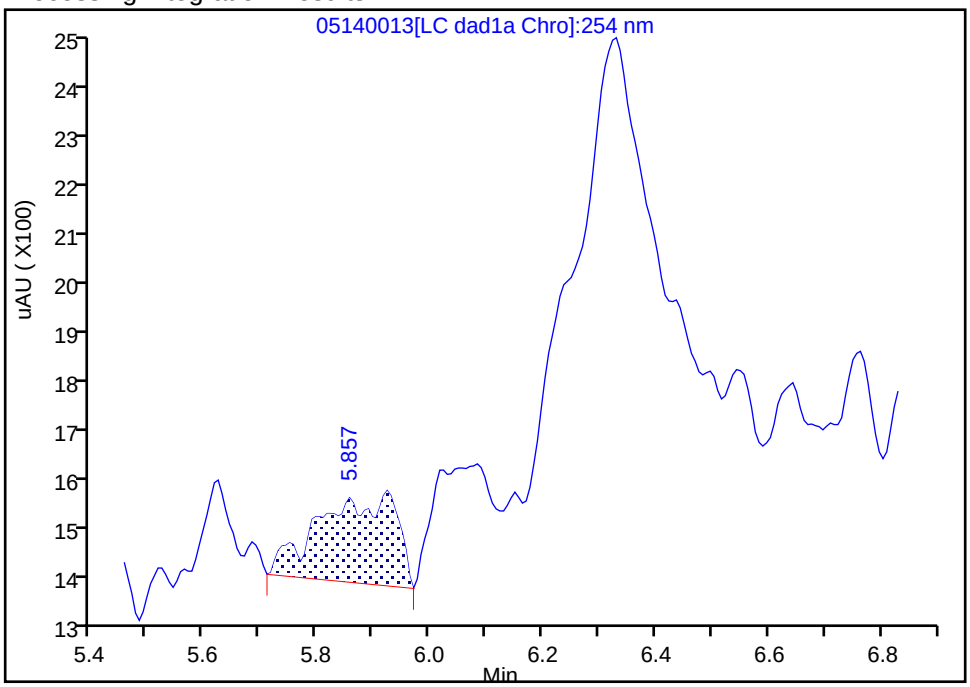
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

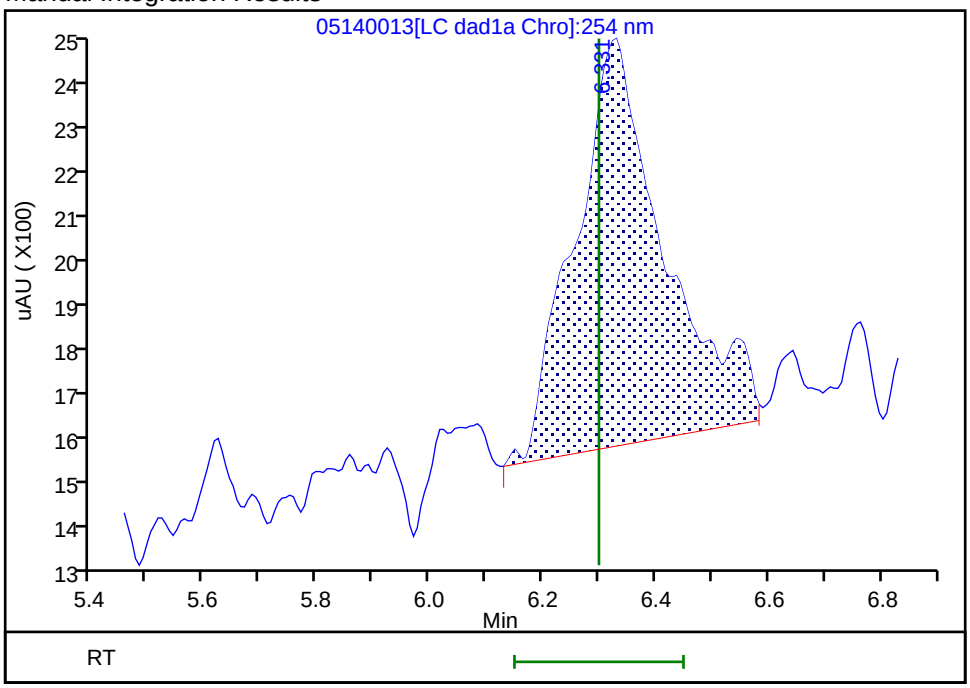
Processing Integration Results

RT: 5.86
Area: 1615
Amount: 0.011701
Amount Units: ug/ml



Manual Integration Results

RT: 6.33
Area: 9462
Amount: 0.048821
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:16
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

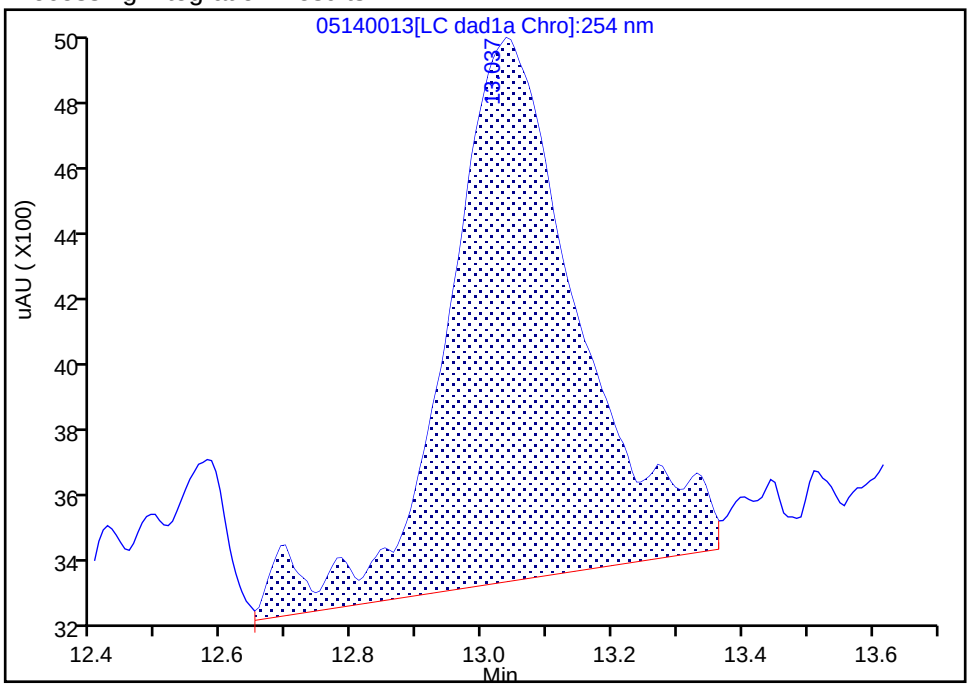
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

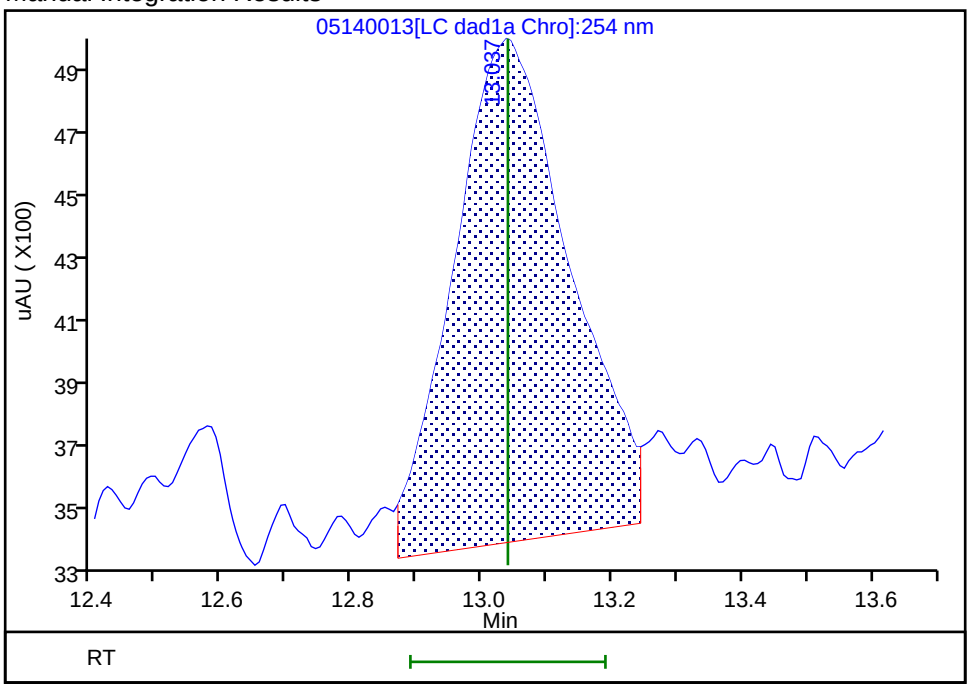
Processing Integration Results

RT: 13.04
Area: 21320
Amount: 0.066490
Amount Units: ug/ml



Manual Integration Results

RT: 13.04
Area: 18744
Amount: 0.060979
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:35:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

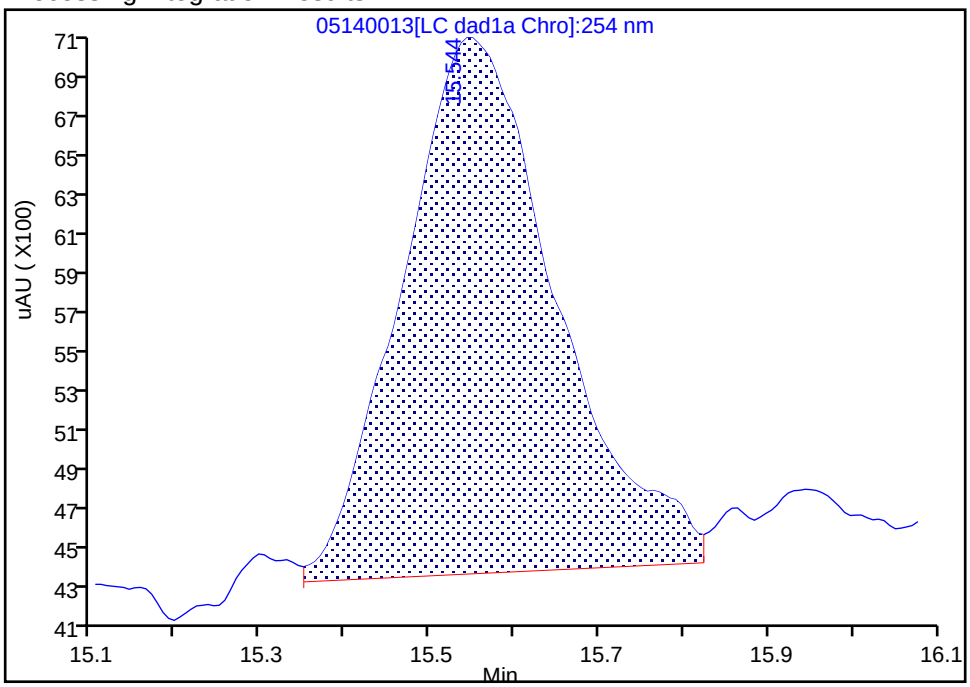
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

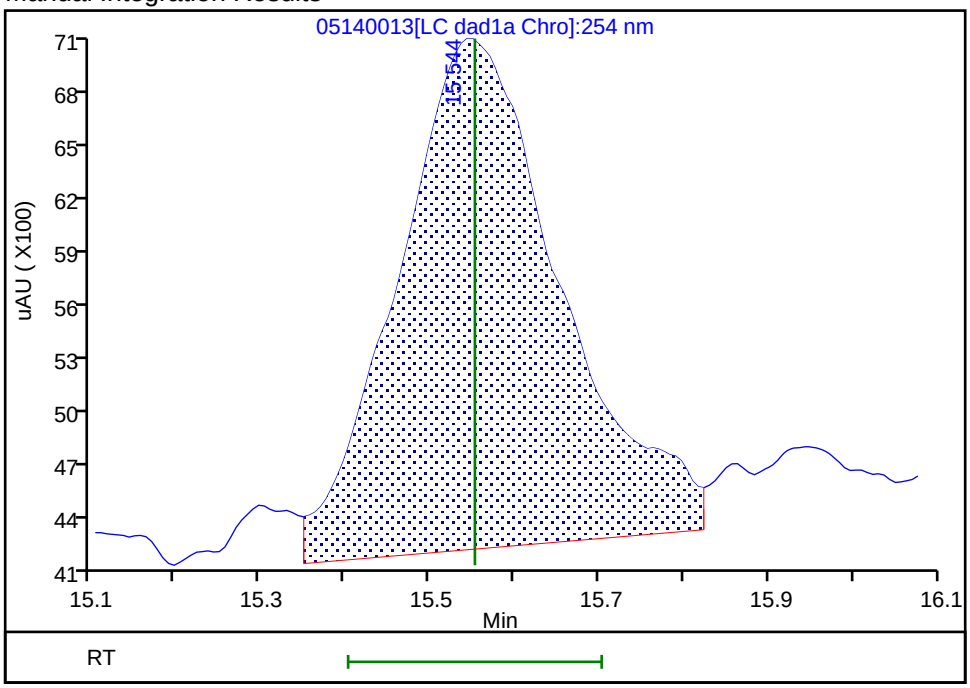
Processing Integration Results

RT: 15.54
Area: 33327
Amount: 0.049753
Amount Units: ug/ml



Manual Integration Results

RT: 15.54
Area: 37161
Amount: 0.055120
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

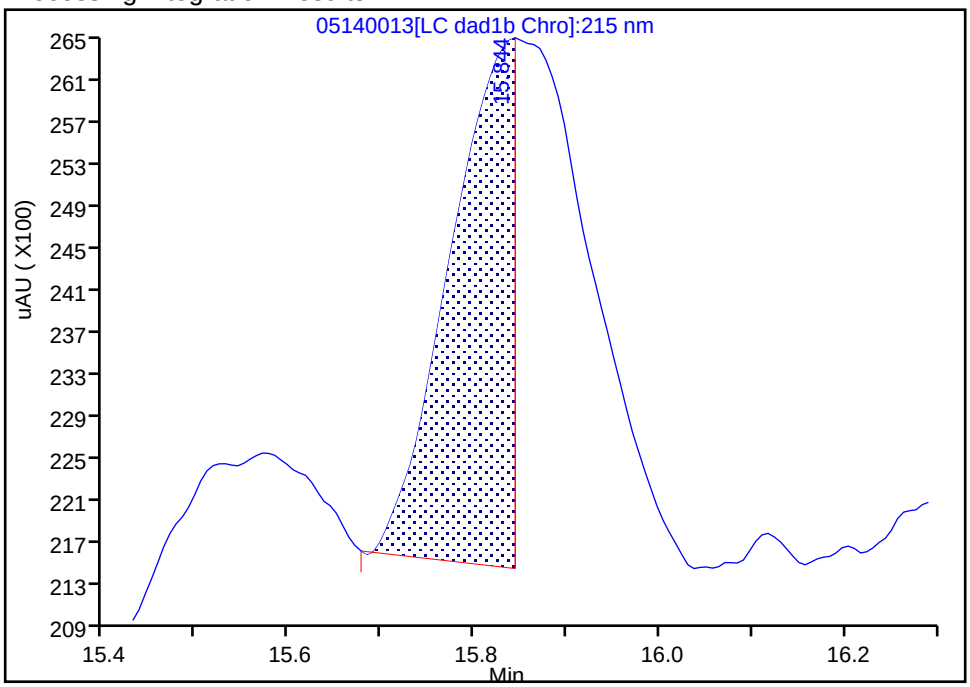
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

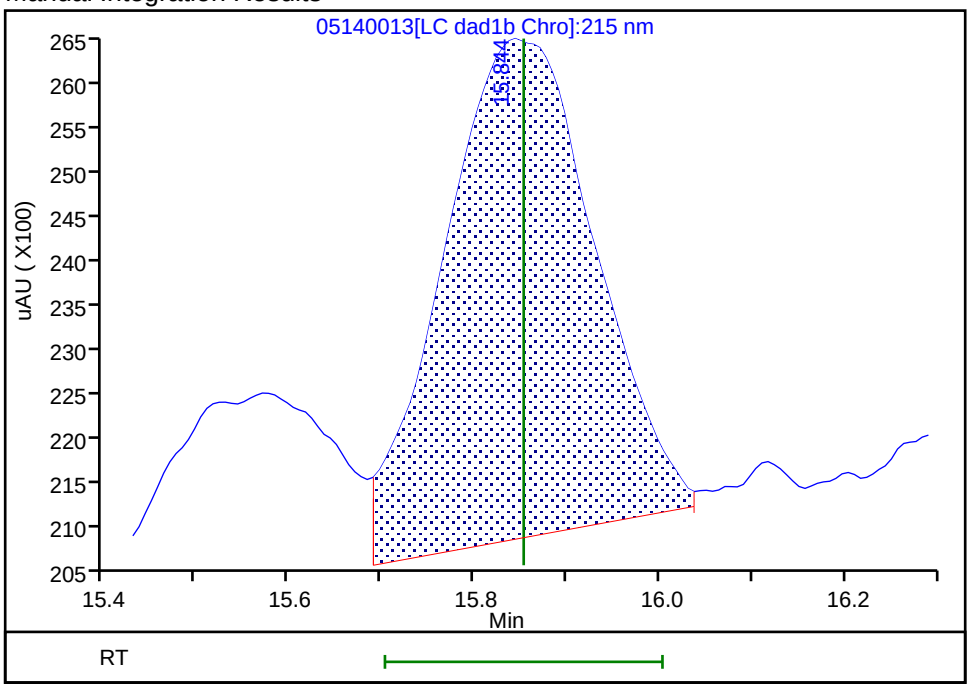
Processing Integration Results

RT: 15.84
Area: 23753
Amount: 0.203485
Amount Units: ug/ml



Manual Integration Results

RT: 15.84
Area: 64042
Amount: 0.505050
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:32:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

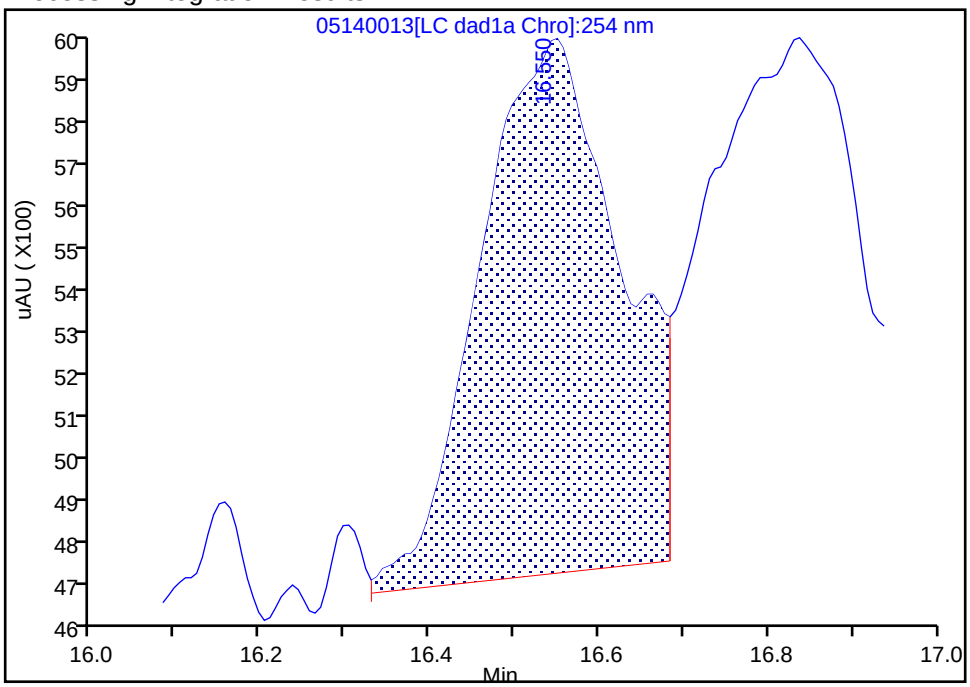
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

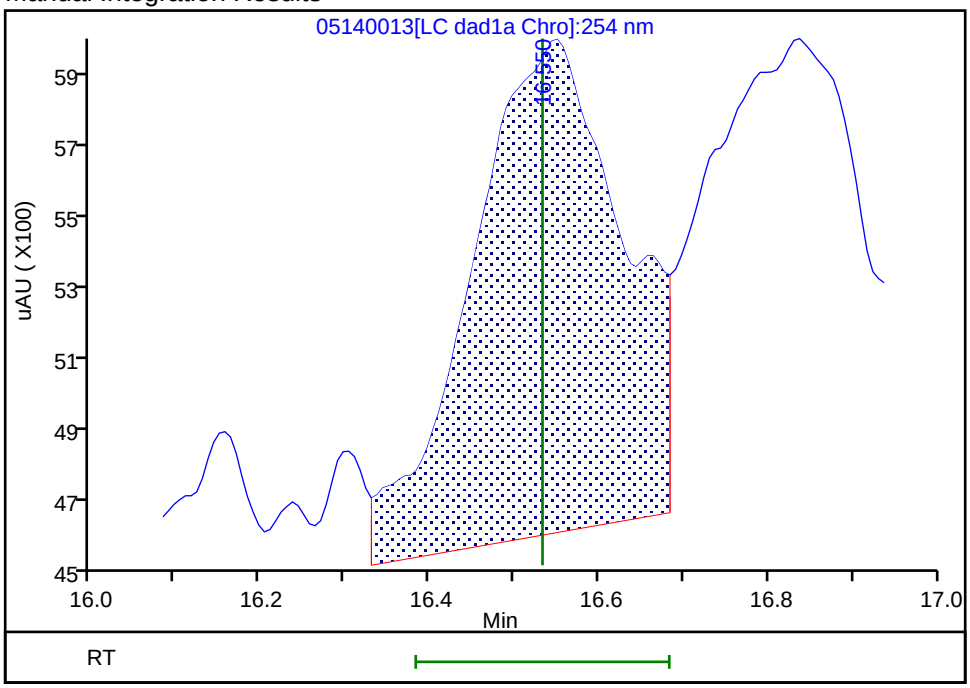
Processing Integration Results

RT: 16.55
Area: 13586
Amount: 0.049463
Amount Units: ug/ml



Manual Integration Results

RT: 16.55
Area: 16003
Amount: 0.058627
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

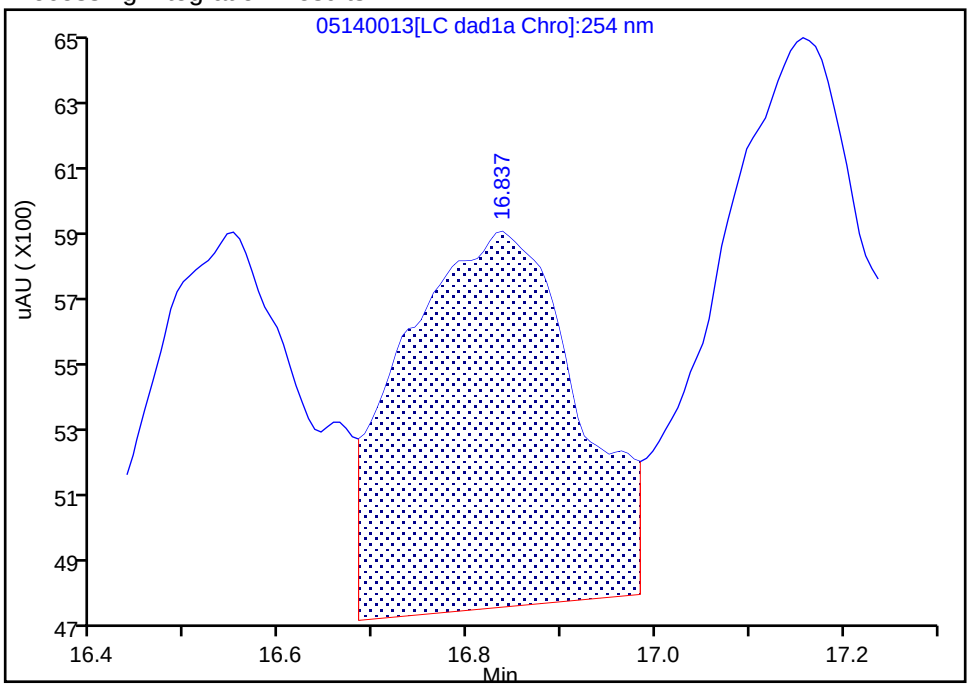
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

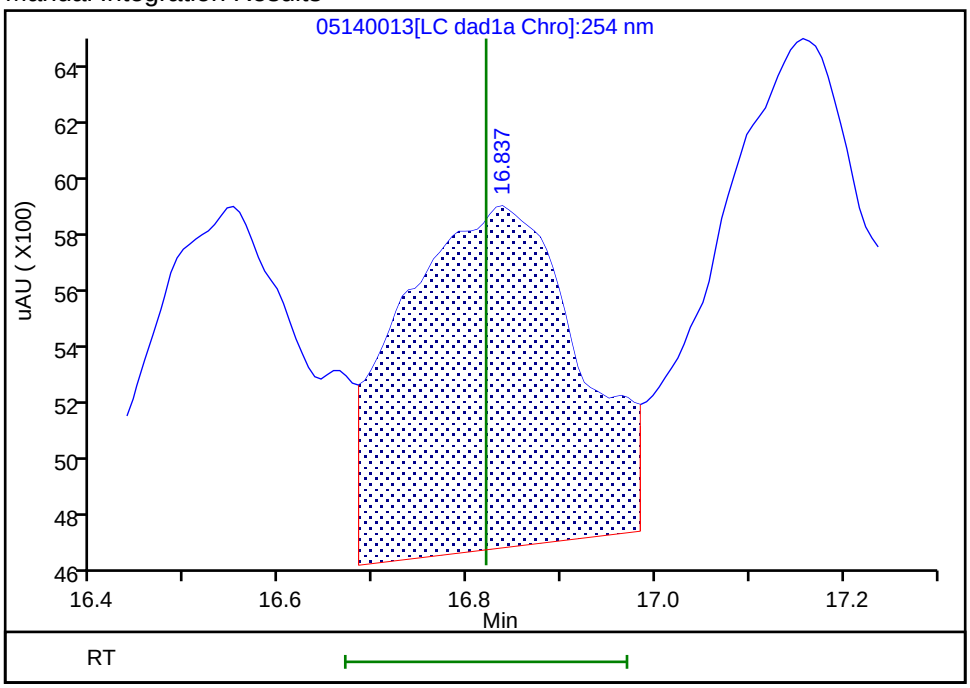
Processing Integration Results

RT: 16.84
Area: 14394
Amount: 0.057129
Amount Units: ug/ml



Manual Integration Results

RT: 16.84
Area: 15492
Amount: 0.064314
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

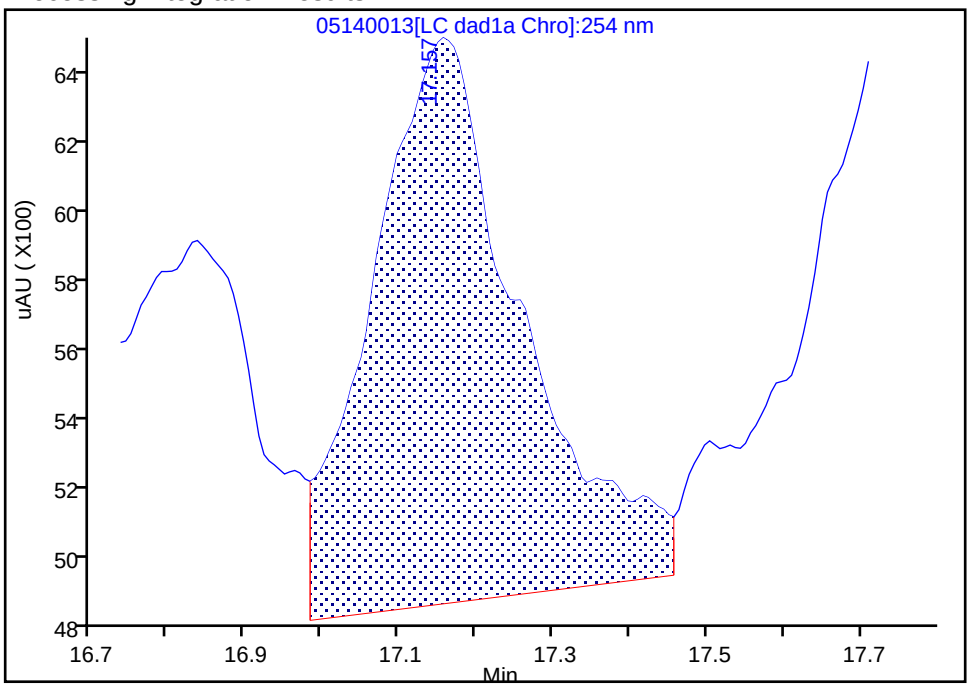
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

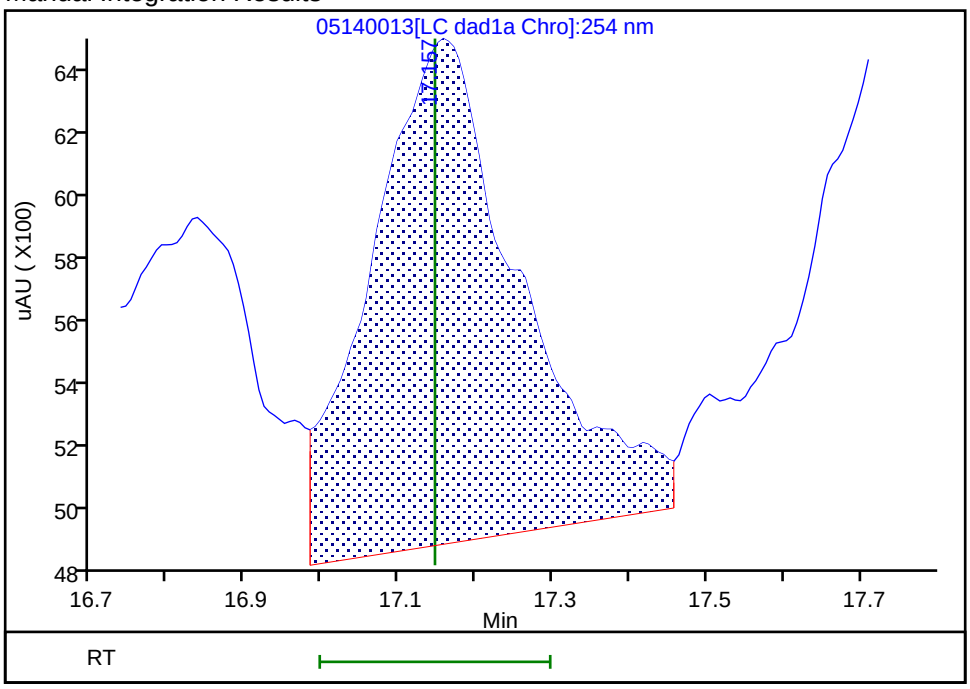
Processing Integration Results

RT: 17.16
Area: 21749
Amount: 0.062679
Amount Units: ug/ml



Manual Integration Results

RT: 17.16
Area: 22118
Amount: 0.064067
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

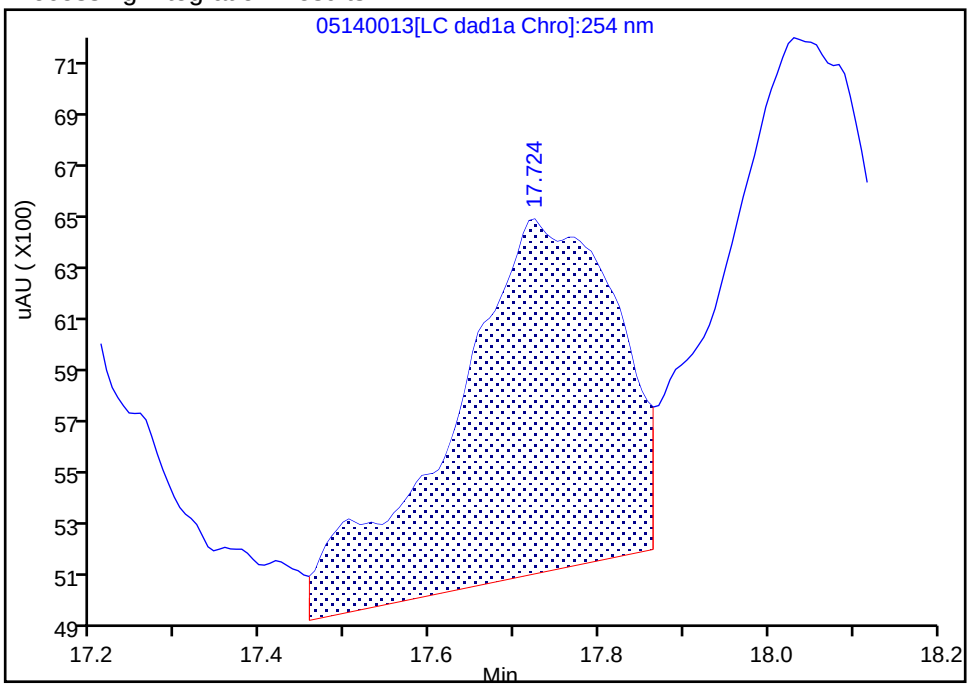
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

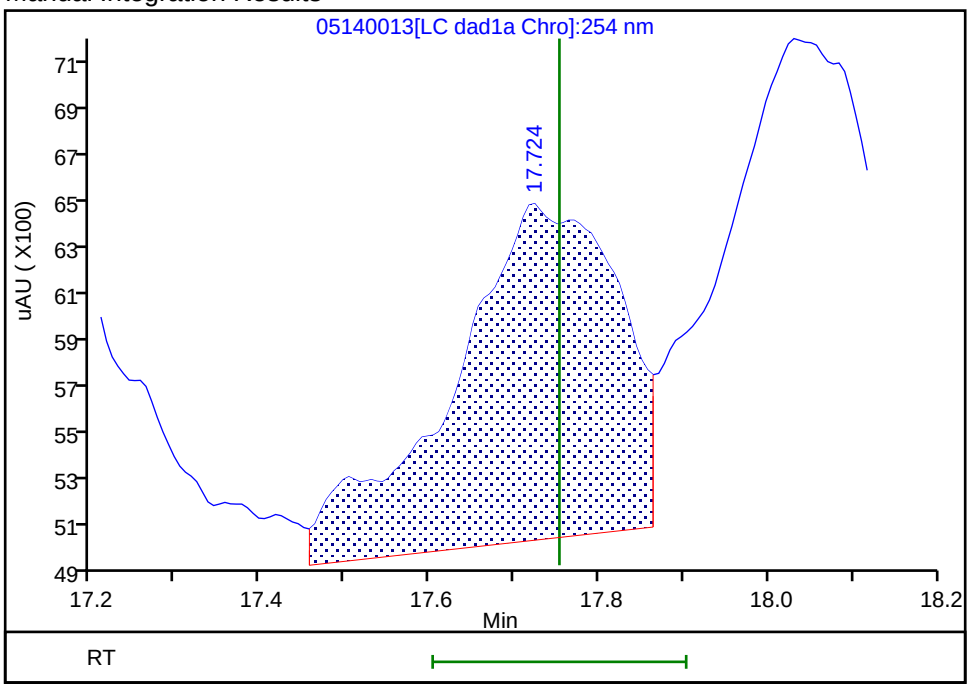
Processing Integration Results

RT: 17.72
Area: 18317
Amount: 0.062732
Amount Units: ug/ml



Manual Integration Results

RT: 17.72
Area: 19280
Amount: 0.064627
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

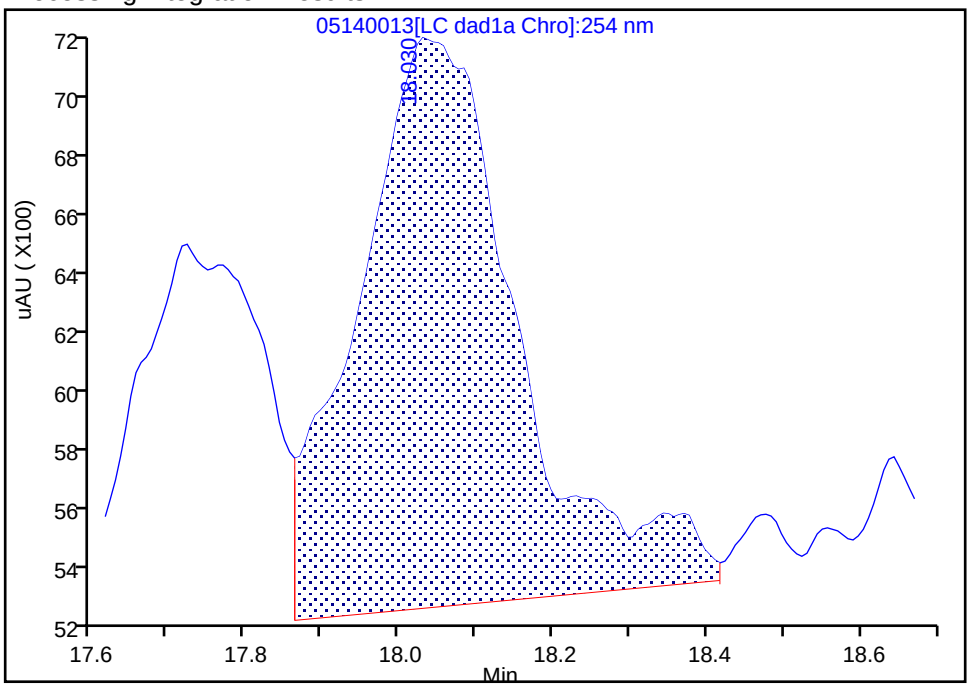
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

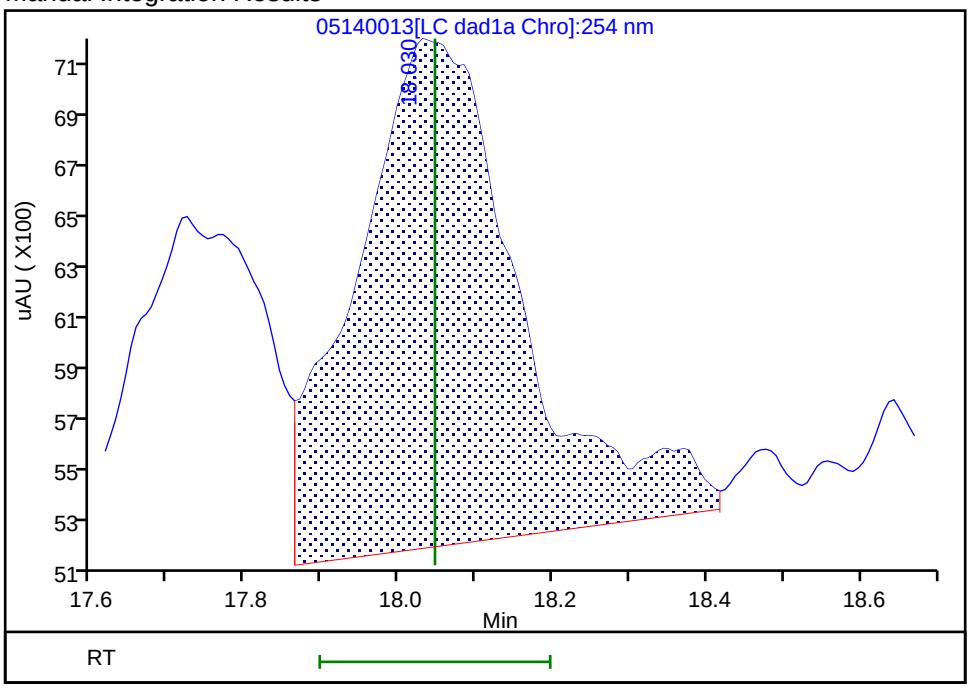
Processing Integration Results

RT: 18.03
Area: 27239
Amount: 0.055134
Amount Units: ug/ml



Manual Integration Results

RT: 18.03
Area: 28982
Amount: 0.062299
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

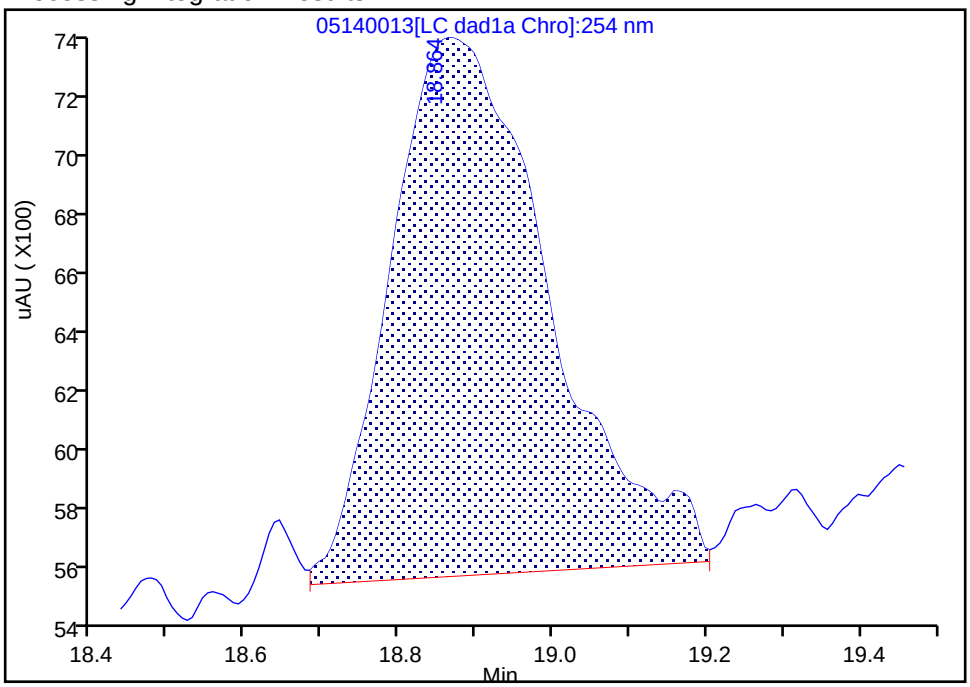
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

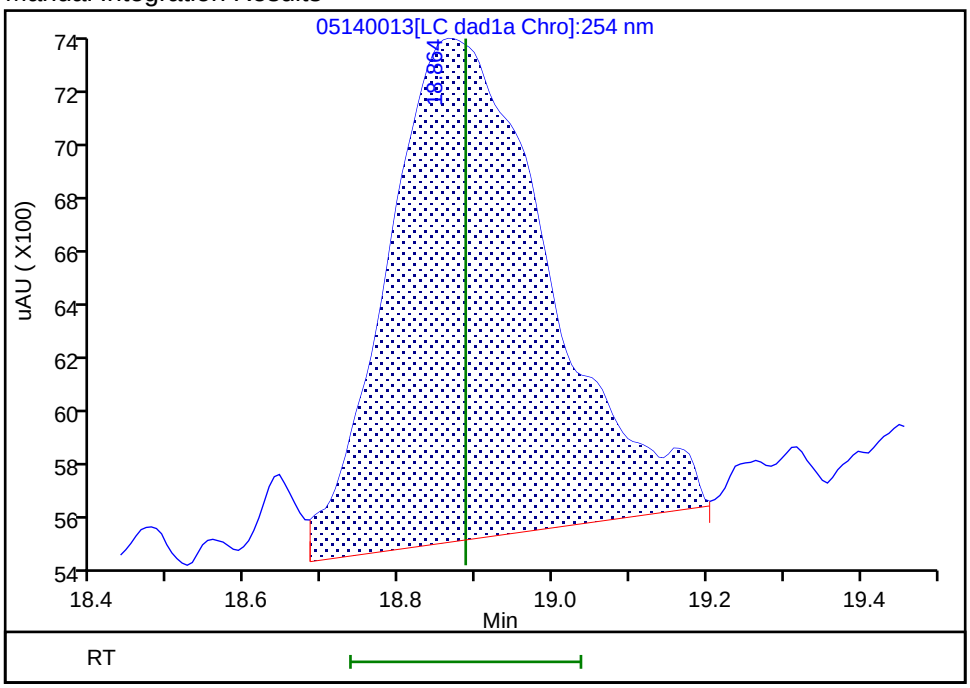
Processing Integration Results

RT: 18.86
Area: 25370
Amount: 0.053396
Amount Units: ug/ml



Manual Integration Results

RT: 18.86
Area: 26649
Amount: 0.056406
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

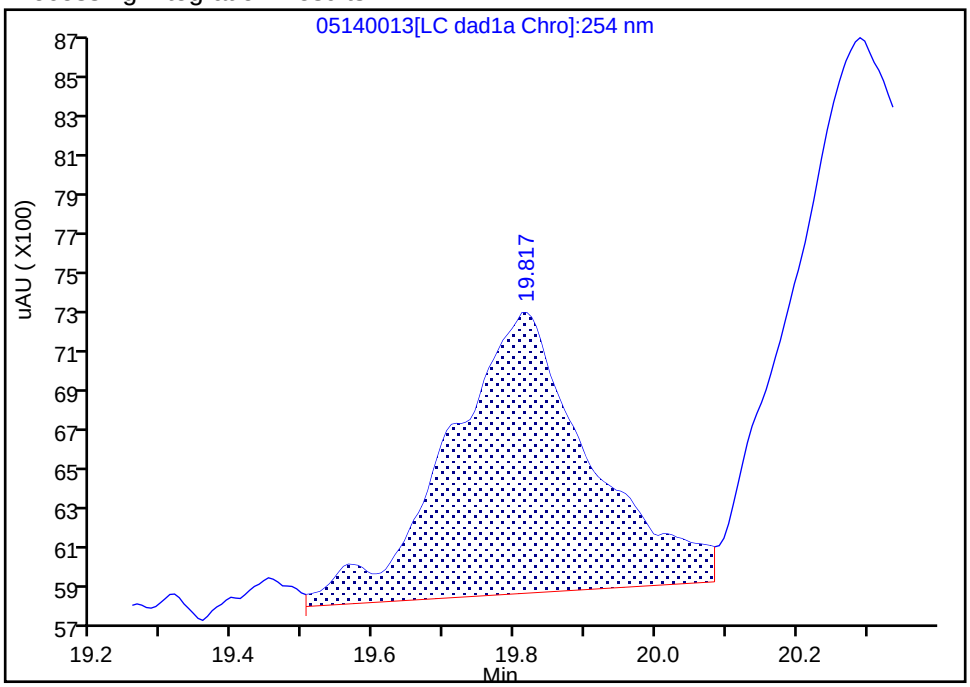
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

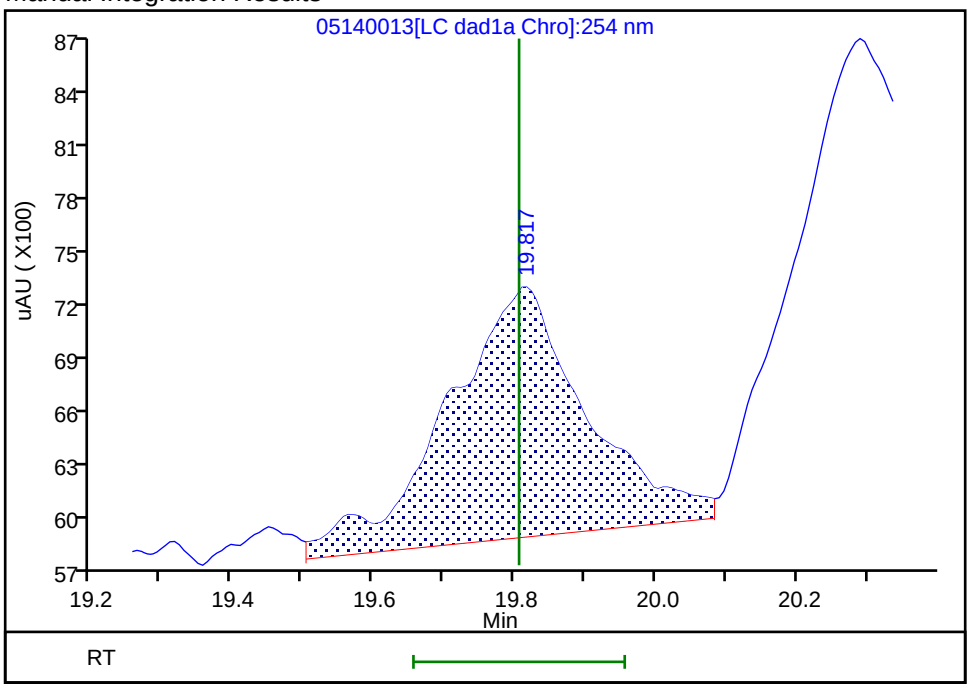
Processing Integration Results

RT: 19.82
Area: 19664
Amount: 0.057481
Amount Units: ug/ml



Manual Integration Results

RT: 19.82
Area: 19107
Amount: 0.050727
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

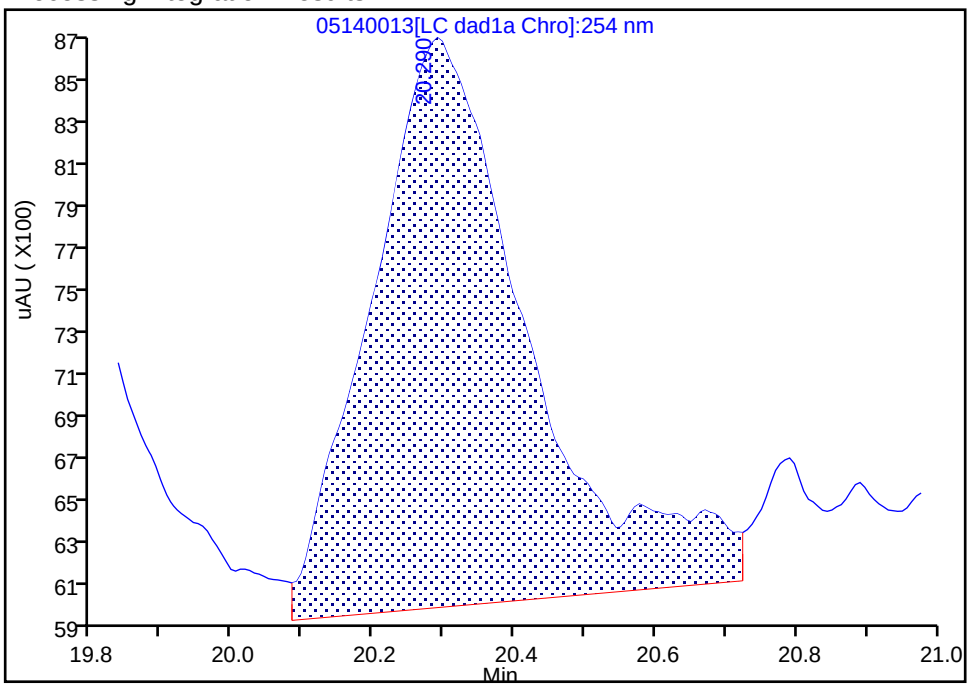
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

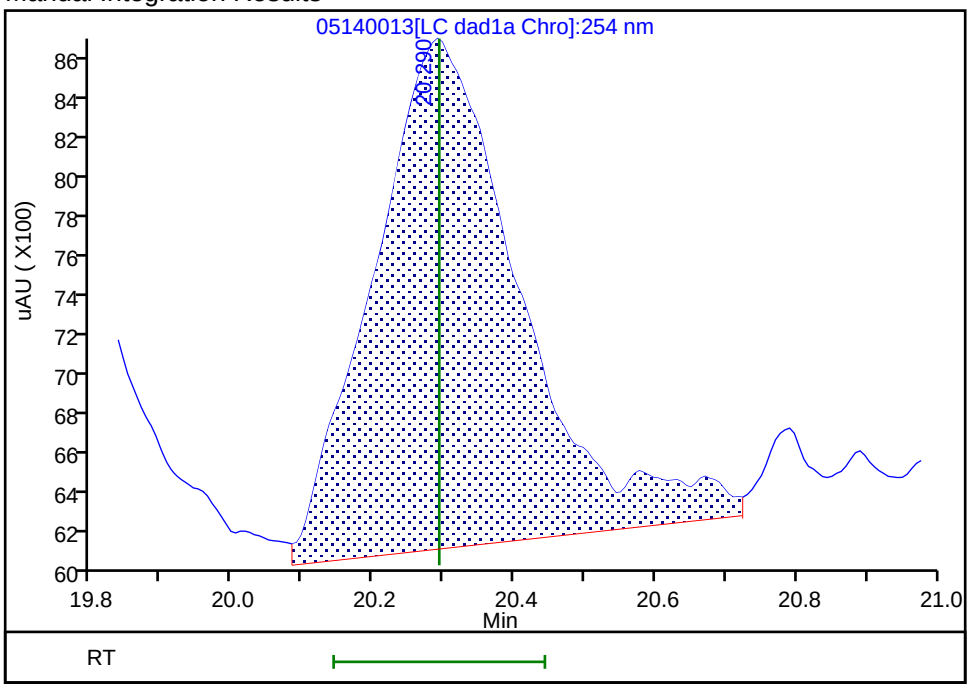
Processing Integration Results

RT: 20.29
Area: 41123
Amount: 0.062799
Amount Units: ug/ml



Manual Integration Results

RT: 20.29
Area: 37302
Amount: 0.058274
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

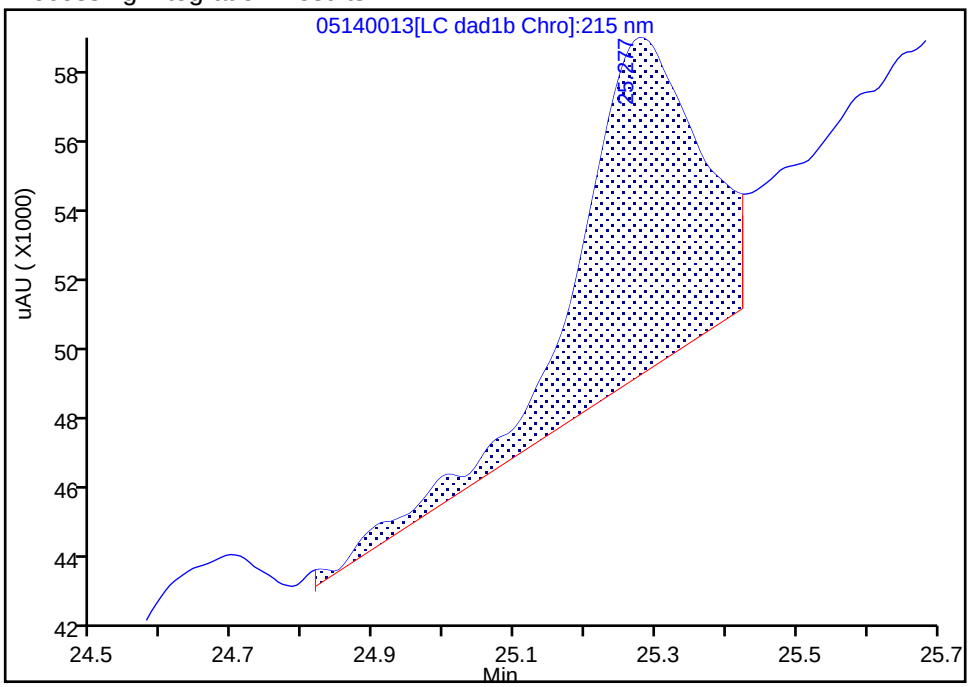
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

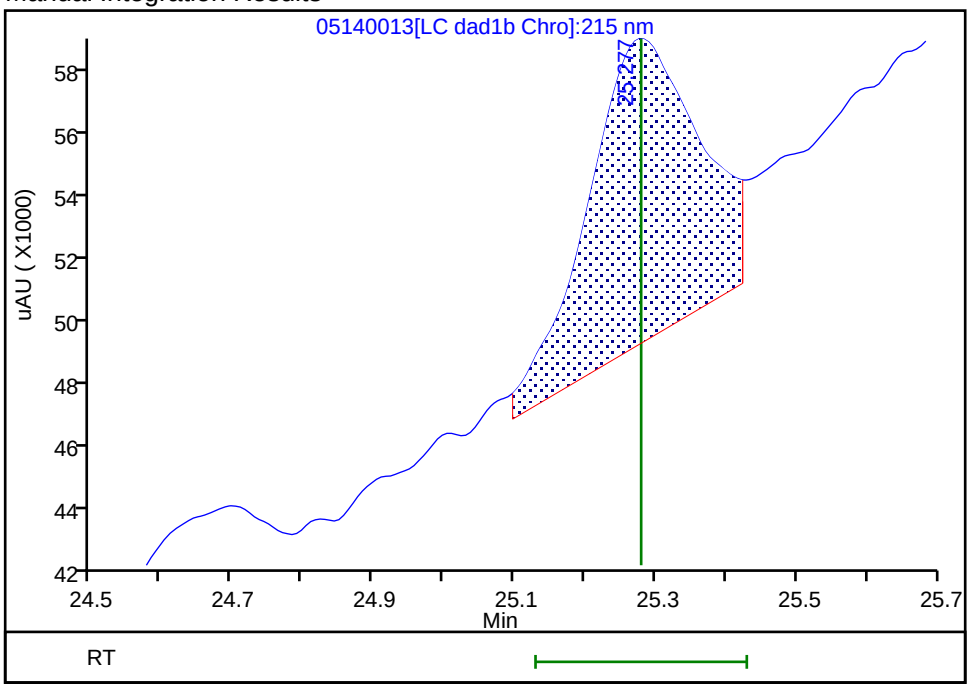
Processing Integration Results

RT: 25.28
Area: 109947
Amount: 0.773174
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 102120
Amount: 0.578199
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:24:48

Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140014.D
Lims ID: IC FULL 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-May-2020 20:21:33 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 2
Misc. Info.: 280-0091518-014
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:58 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:22:32

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	4.375	4.366	0.009	10106	0.0200	0.0235	
2 2,4-diamino-6-nitrotoluene	1	4.855	4.880	-0.025	9147	0.0200	0.0152	
5 2,4,6-Trinitrophenol	1	6.322	6.300	0.022	5683	0.0250	0.0293	a
6 HMX	1	6.982	6.986	-0.004	10018	0.0250	0.0265	
8 RDX	1	9.095	9.173	-0.078	6286	0.0250	0.0257	
9 Nitrobenzene	1	12.095	12.106	-0.011	10325	0.0251	0.0235	
$ 10 1,2-Dinitrobenzene	1	13.022	13.040	-0.018	8436	0.0250	0.0238	M
11 3,5-Dinitroaniline	1	14.862	14.886	-0.024	12305	0.0200	0.0197	
12 1,3-Dinitrobenzene	1	15.542	15.553	-0.011	16280	0.0251	0.0241	
13 Nitroglycerin	2	15.855	15.853	0.002	26546	0.2500	0.2093	
14 o-Nitrotoluene	1	16.515	16.533	-0.018	6812	0.0250	0.0250	
15 p-Nitrotoluene	1	16.795	16.820	-0.025	5374	0.0251	0.0223	
16 4-Amino-2,6-dinitrotoluene	1	17.155	17.146	0.009	9369	0.0250	0.0271	
17 m-Nitrotoluene	1	17.748	17.753	-0.005	6920	0.0250	0.0232	
18 2-Amino-4,6-dinitrotoluene	1	18.048	18.046	0.002	10376	0.0251	0.0223	
19 1,3,5-Trinitrobenzene	1	18.855	18.886	-0.031	10822	0.0251	0.0229	
20 2,6-Dinitrotoluene	1	19.828	19.806	0.022	11618	0.0251	0.0248	
21 2,4-Dinitrotoluene	1	20.295	20.293	0.002	16811	0.0251	0.0263	
22 Tetryl	1	23.529	23.553	-0.024	9874	0.0251	0.0268	
23 2,4,6-Trinitrotoluene	1	24.682	24.653	0.029	11547	0.0251	0.0209	
24 PETN	2	25.282	25.280	0.002	20453	0.2500	-0.0535	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

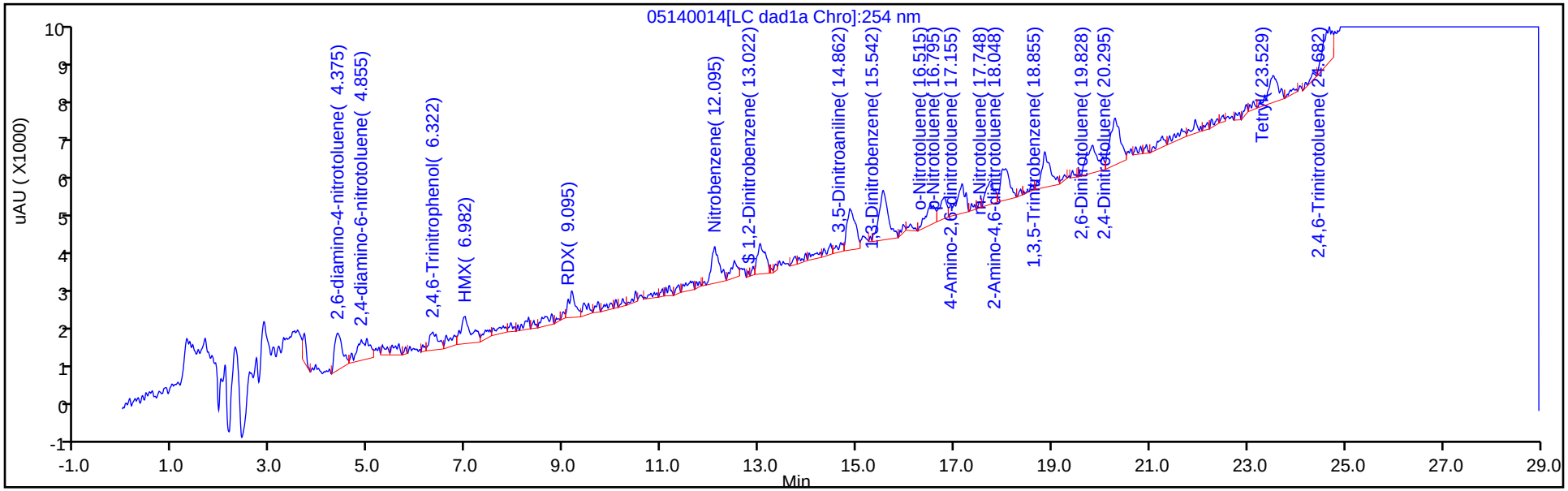
8330IntermStk_00064	Amount Added:	2.50	Units: uL
8330_ADDs_00026	Amount Added:	1.00	Units: uL

Report Date: 15-May-2020 12:00:59 Chrom Revision: 2.3 05-May-2020 17:48:18

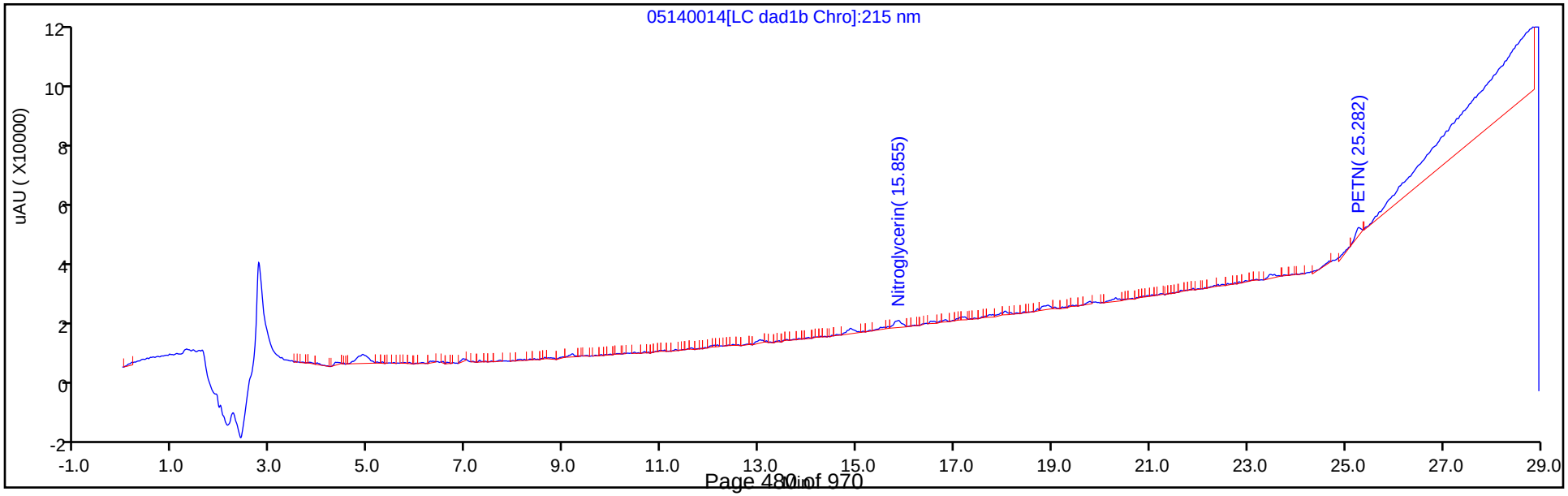
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d				
Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 2			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

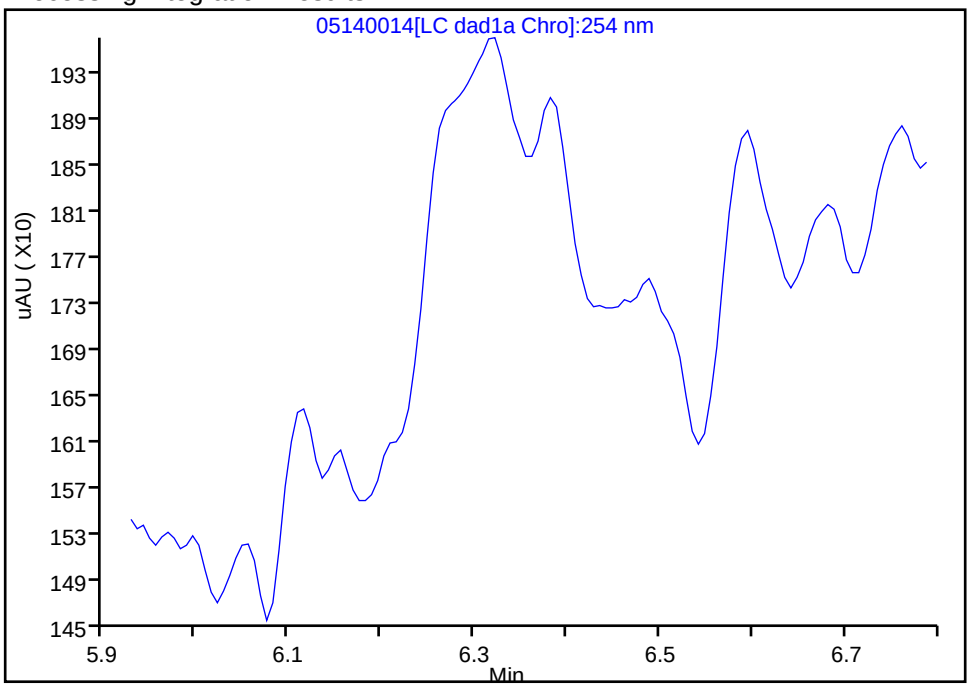
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d				
Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

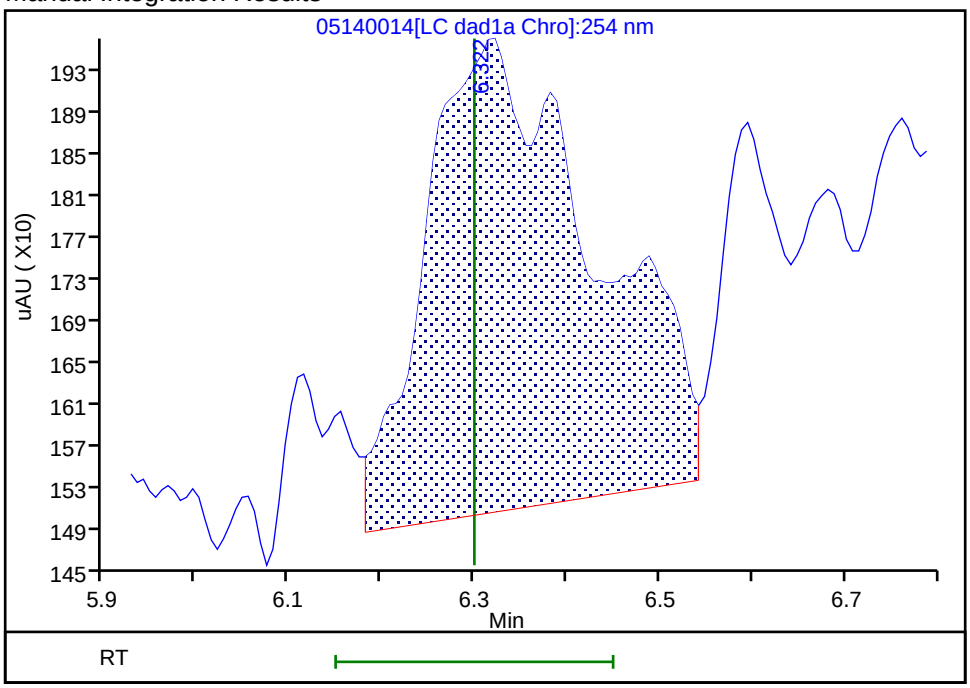
Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.32
Area: 5683
Amount: 0.029323
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:29
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

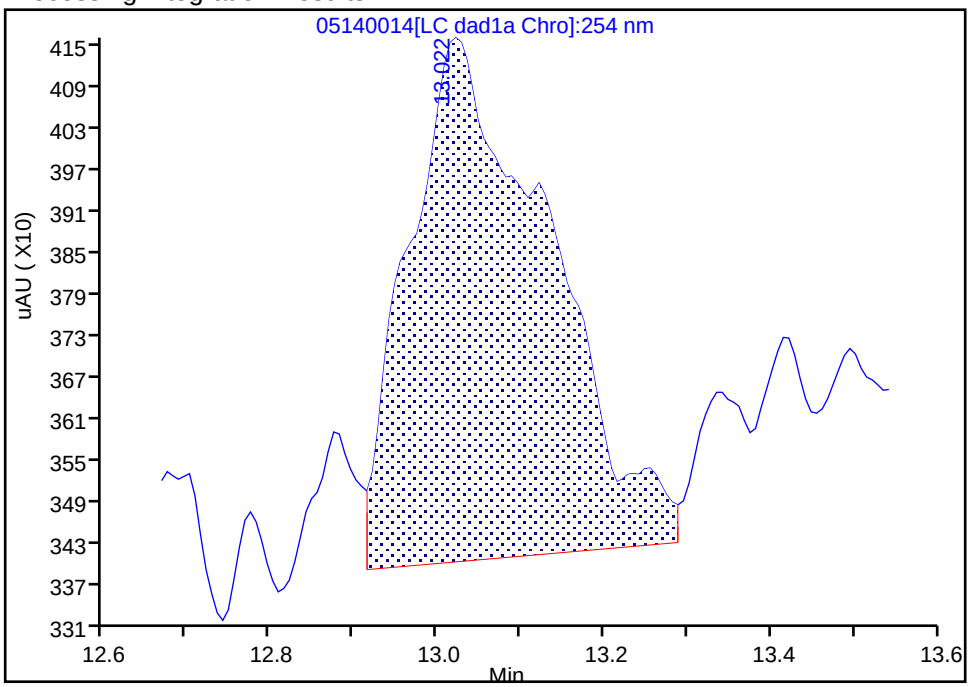
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d				
Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

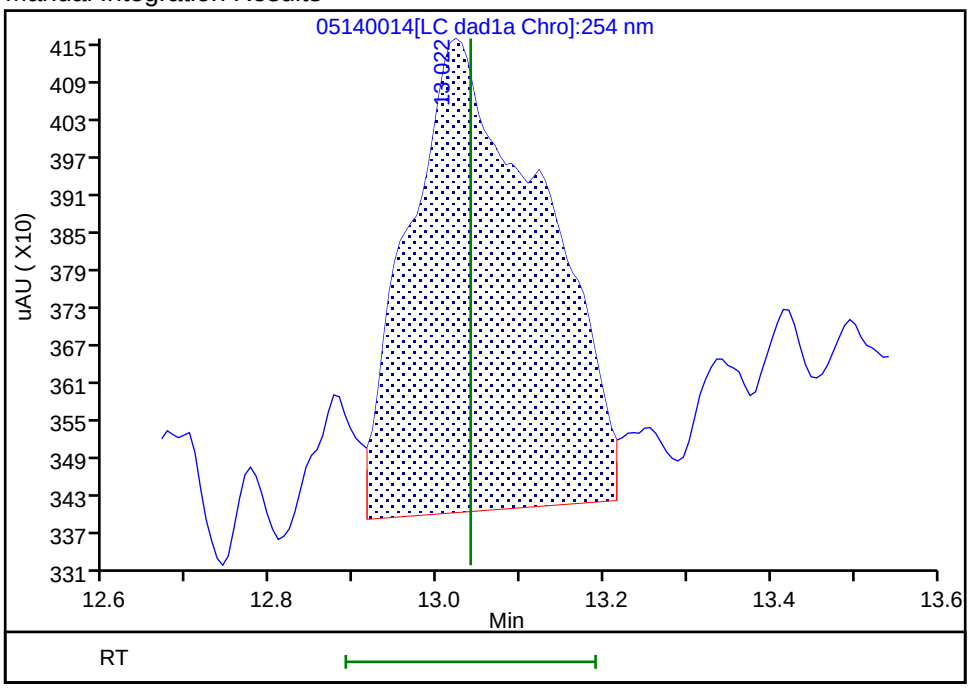
Processing Integration Results

RT: 13.02
Area: 8831
Amount: 0.029561
Amount Units: ug/ml



Manual Integration Results

RT: 13.02
Area: 8436
Amount: 0.023796
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:35:34

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

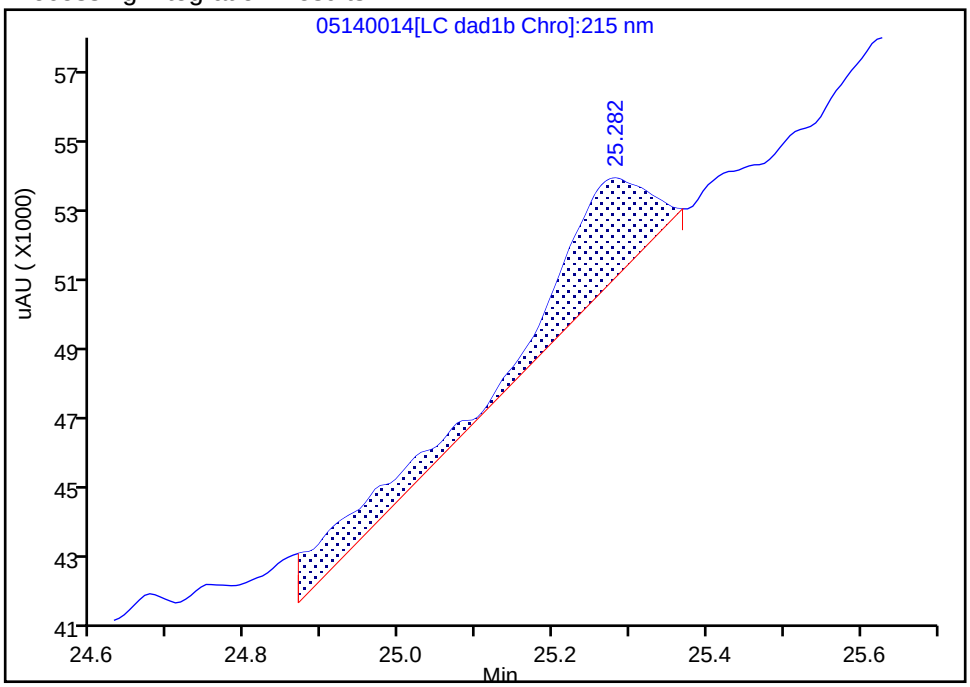
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d				
Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

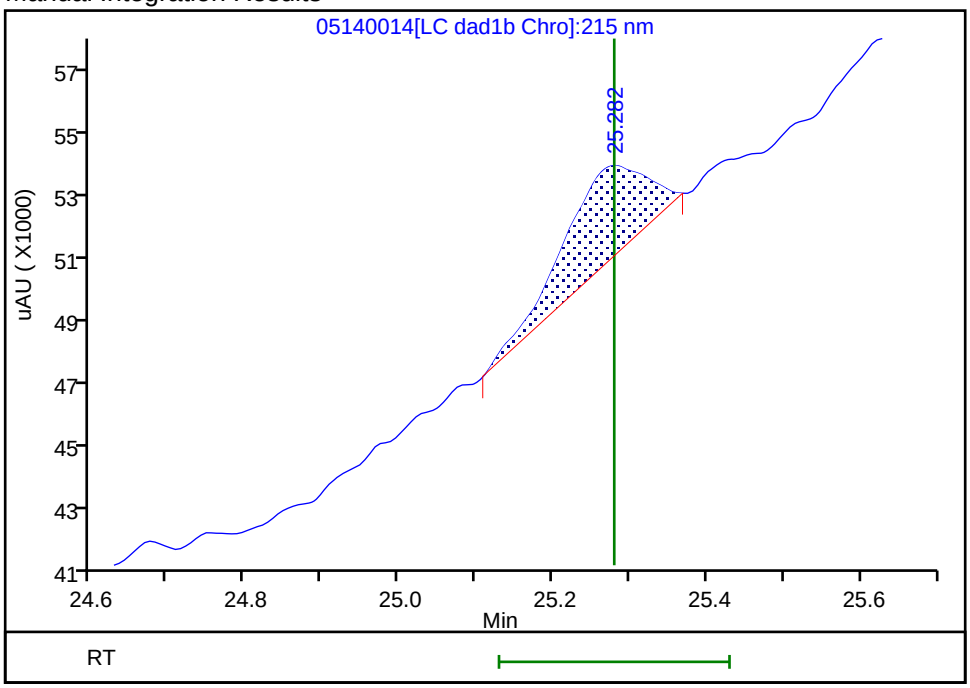
Processing Integration Results

RT: 25.28
Area: 31007
Amount: 0.129673
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 20453
Amount: -0.053470
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:24:34

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140015.D
Lims ID: IC FULL 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-May-2020 20:56:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 1
Misc. Info.: 280-0091518-015
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:59 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:24:04

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		4.366			ND	ND	U
2 2,4-diamino-6-nitrotoluene	1		4.880			ND	ND	U
5 2,4,6-Trinitrophenol	1		6.300			ND	ND	U
6 HMX	1		6.986			ND	ND	U
8 RDX	1		9.173			ND	ND	U
9 Nitrobenzene	1		12.106			ND	ND	U
$ 10 1,2-Dinitrobenzene	1		13.040			ND	ND	U
11 3,5-Dinitroaniline	1		14.886			ND	ND	U
12 1,3-Dinitrobenzene	1		15.553			ND	ND	U
13 Nitroglycerin	2		15.853			ND	ND	U
14 o-Nitrotoluene	1		16.533			ND	ND	U
15 p-Nitrotoluene	1		16.820			ND	ND	U
16 4-Amino-2,6-dinitrotoluene	1		17.146			ND	ND	U
17 m-Nitrotoluene	1		17.753			ND	ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.046			ND	ND	U
19 1,3,5-Trinitrobenzene	1		18.886			ND	ND	U
20 2,6-Dinitrotoluene	1	19.755	19.806	-0.051	4758	0.0126	0.001113	M
21 2,4-Dinitrotoluene	1	20.295	20.293	0.002	7990	0.0126	0.0125	M
22 Tetryl	1		23.553			ND	ND	U
23 2,4,6-Trinitrotoluene	1		24.653			ND	ND	U
24 PETN	2		25.280			ND	ND	U

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

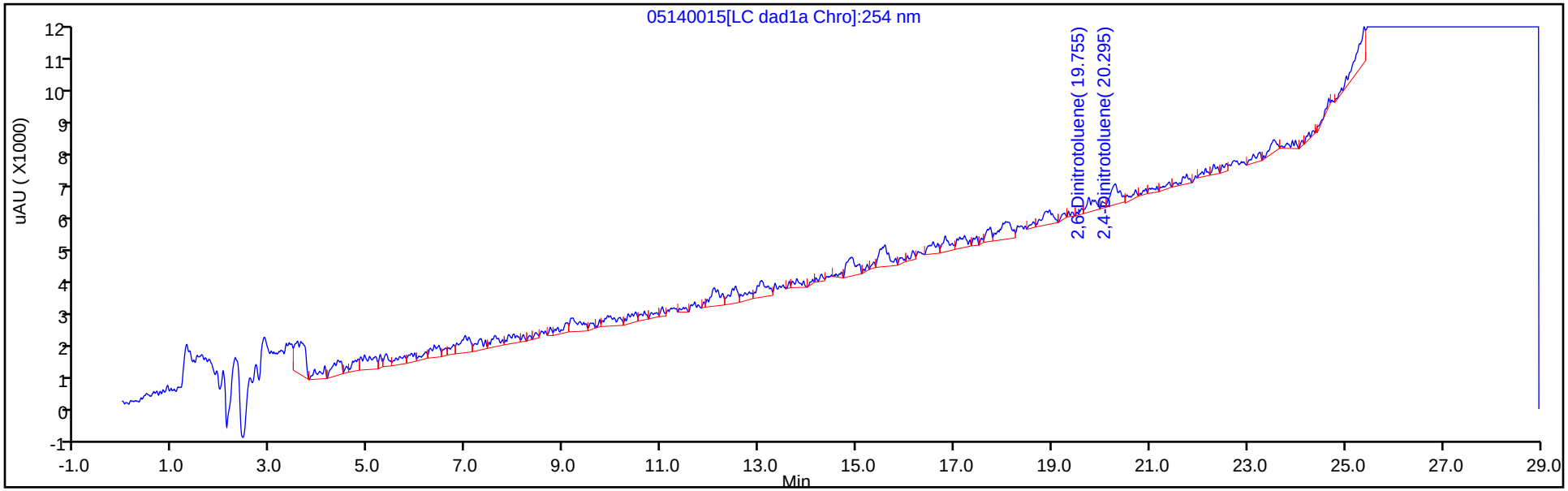
8330IntermStk_00064	Amount Added:	1.25	Units: uL
8330_ADDs_00026	Amount Added:	0.50	Units: uL

Report Date: 15-May-2020 12:00:59 Chrom Revision: 2.3 05-May-2020 17:48:18

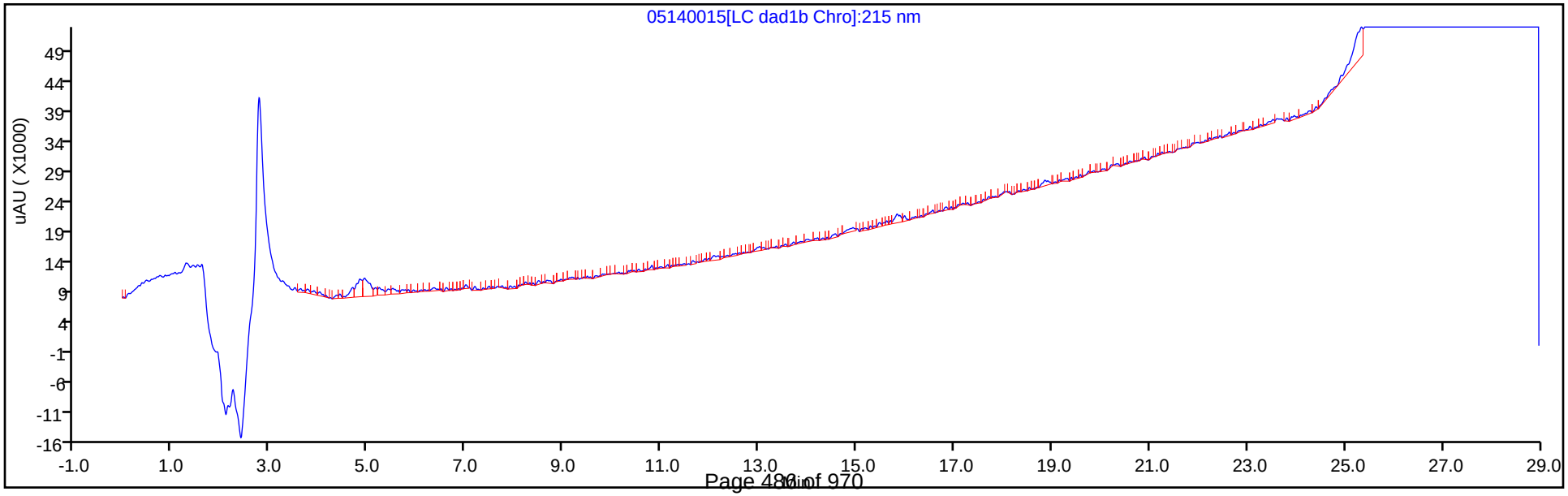
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d				
Injection Date:	14-May-2020 20:56:30	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 1			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

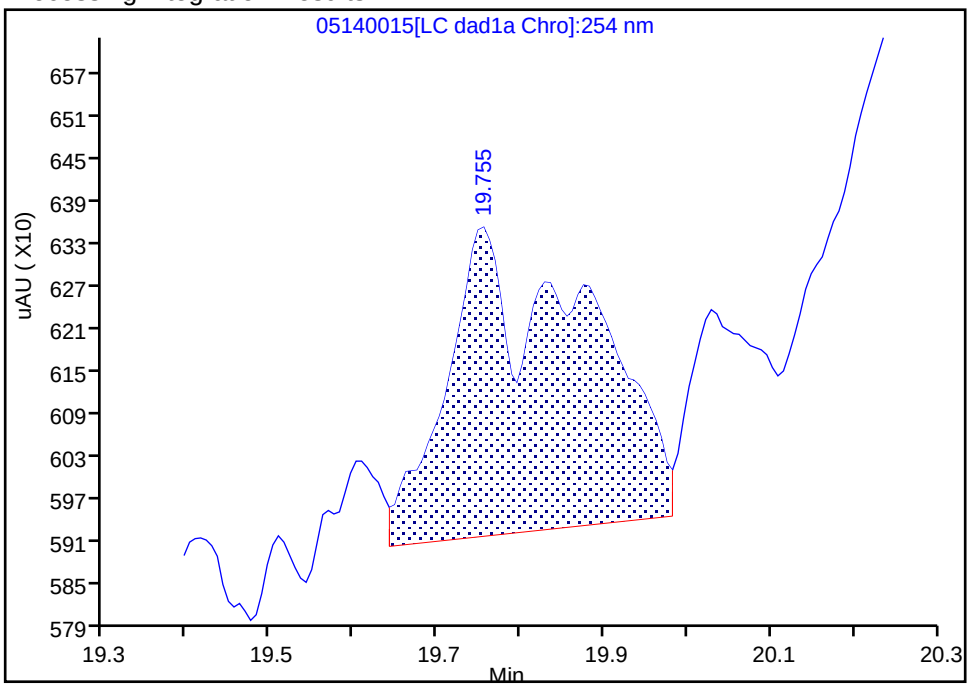
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d				
Injection Date:	14-May-2020 20:56:30	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

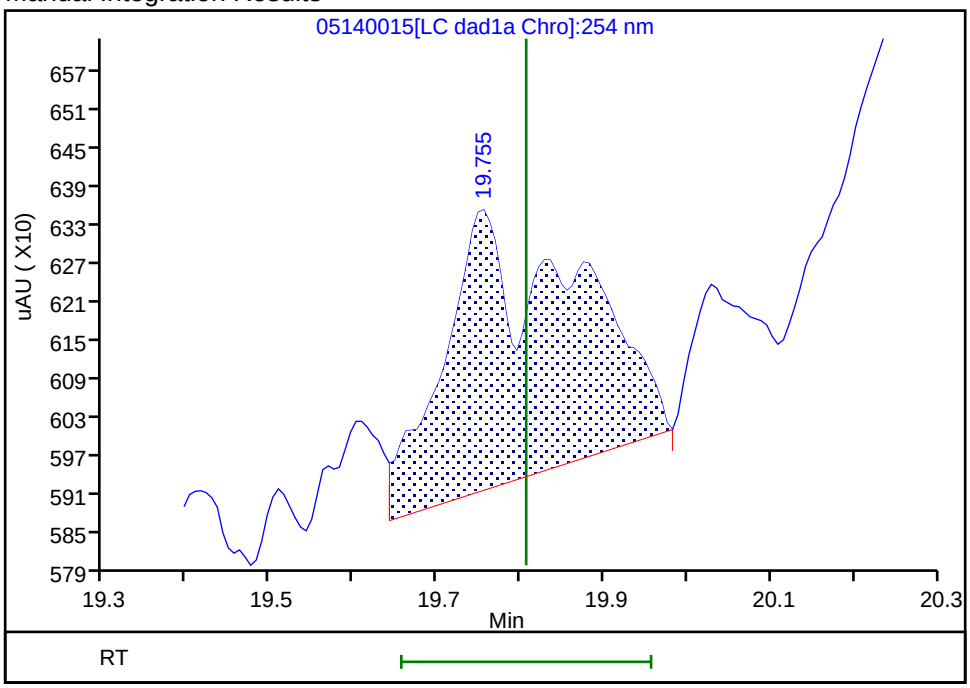
Processing Integration Results

RT: 19.76
Area: 5064
Amount: 0.014857
Amount Units: ug/ml



Manual Integration Results

RT: 19.76
Area: 4758
Amount: 0.001113
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:30:41
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

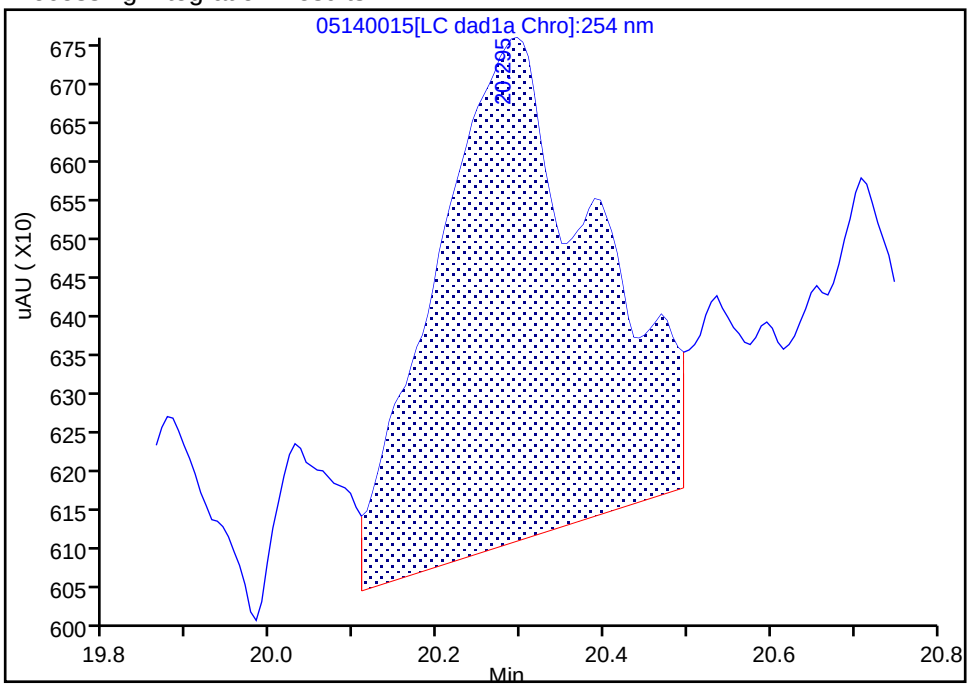
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d				
Injection Date:	14-May-2020 20:56:30	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

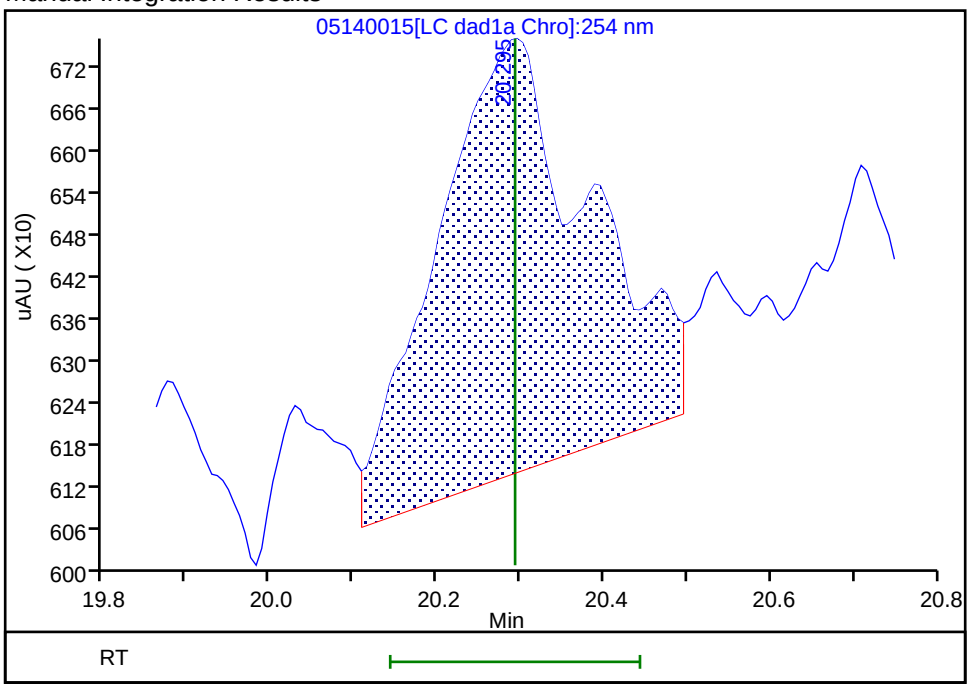
Processing Integration Results

RT: 20.30
Area: 8698
Amount: 0.013456
Amount Units: ug/ml



Manual Integration Results

RT: 20.30
Area: 7990
Amount: 0.012482
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:30:41
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	5.430	5.411	5.420	5.417	5.419	5.416	5.408	5.395			5.267 - 5.567	5.415
DNX	6.217	6.224	6.226	6.231	6.226	6.223	6.214	6.202			6.081 - 6.381	6.220
MNX	7.737	7.744	7.740	7.744	7.739	7.736	7.728	7.709			7.594 - 7.894	7.735

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.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	552048 411823	425974 414575	452338 409749	404831 415188	Ave		435815.884				11.3		20.0			
DNX	380619 318914	320939 302202	322807 308244	308000 307920	Ave		321205.643				7.8		20.0			
MNX	510454 287059	337087 281216	295227 270908	285954 281272	Lin2	5408.61434	266896.431							0.9970		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.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	11052 290493	21320 410159	45279 1039009	101309	164894	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	7620 211753	16063 308552	32313 770570	77077	127693	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Lin2	11914 229725	19669 316150	34453 820612	83427	133999	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140017.D				
Lims ID:	IC DMT 9				
Client ID:					
Sample Type:	IC	Calib Level:	9		
Inject. Date:	14-May-2020 22:06:26	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 9				
Misc. Info.:	280-0091518-017				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:02	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

First Level Reviewer: zhangji Date: 15-May-2020 11:36:21

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.395	5.417	-0.022	1039009	2.50	2.38	
4 DNX	1	6.202	6.231	-0.029	770570	2.50	2.40	
7 MNX	1	7.709	7.744	-0.035	820612	2.92	3.05	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

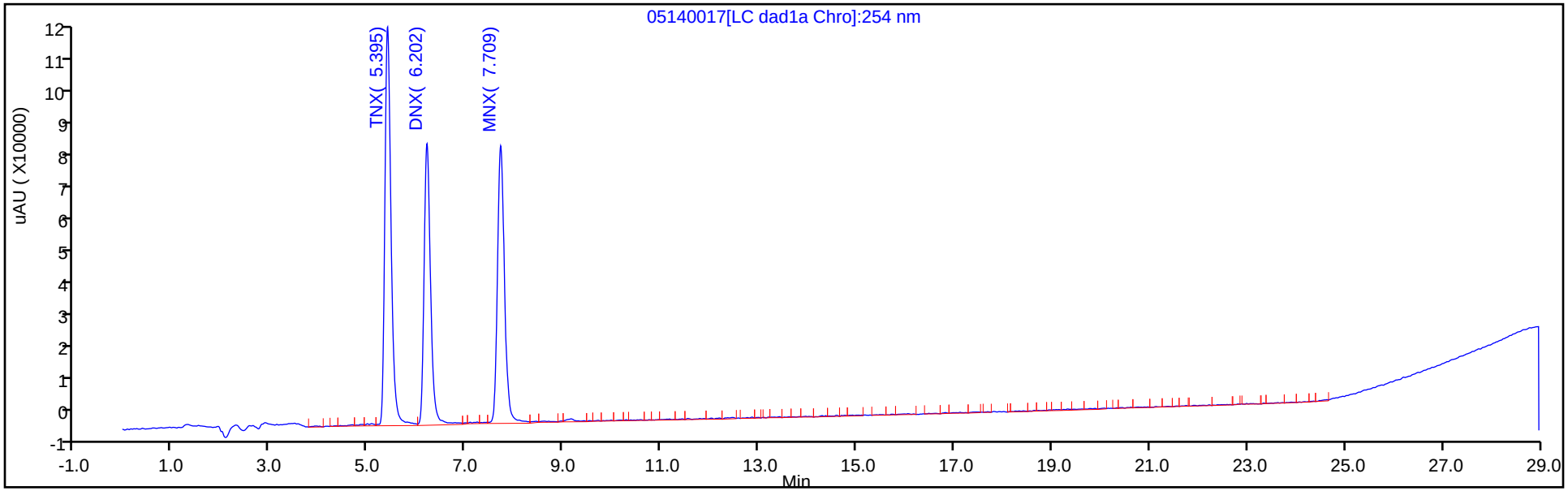
8330 DMT_00006 Amount Added: 125.00 Units: uL

Report Date: 15-May-2020 12:01:02 Chrom Revision: 2.3 05-May-2020 17:48:18

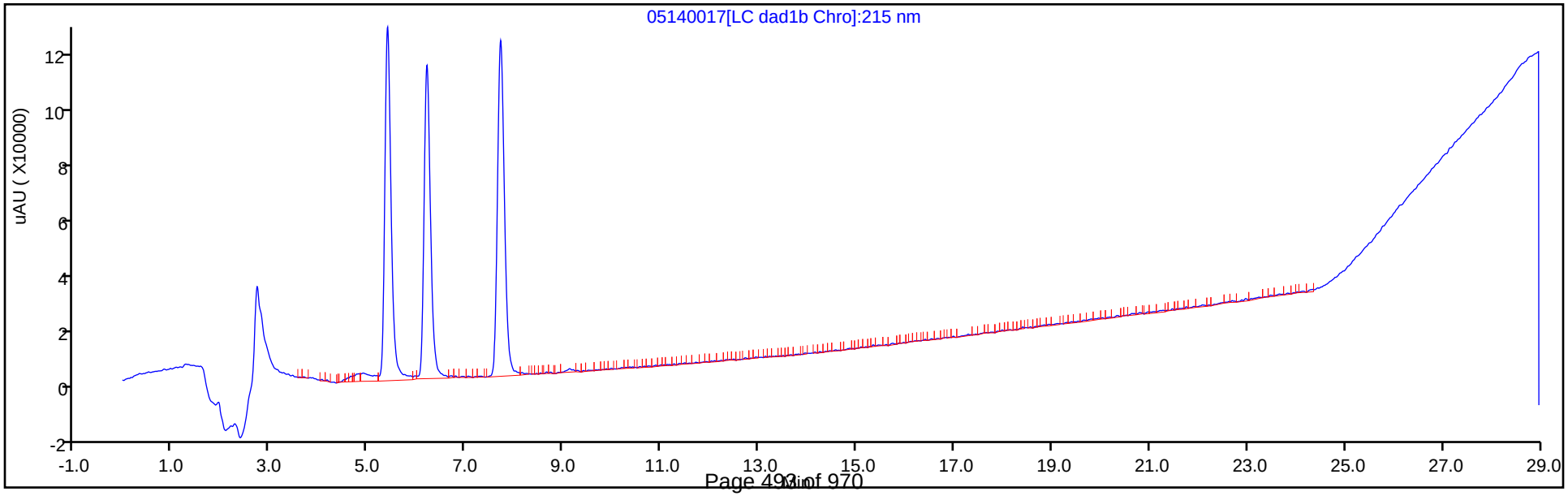
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140017.d				
Injection Date:	14-May-2020 22:06:26	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 9			Worklist Smp#:	17
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

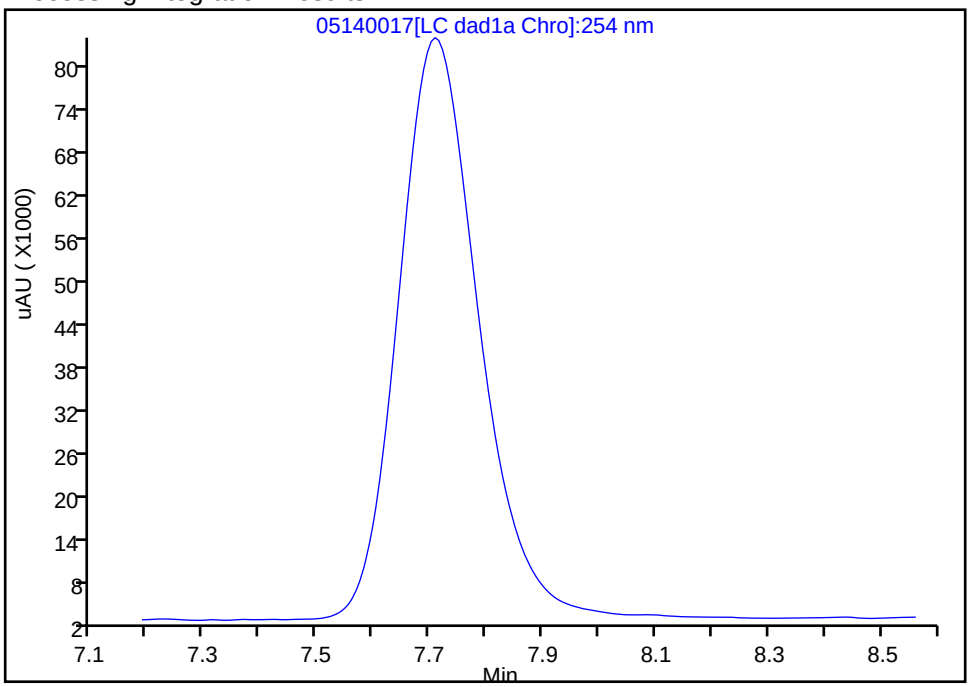
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140017.d				
Injection Date:	14-May-2020 22:06:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

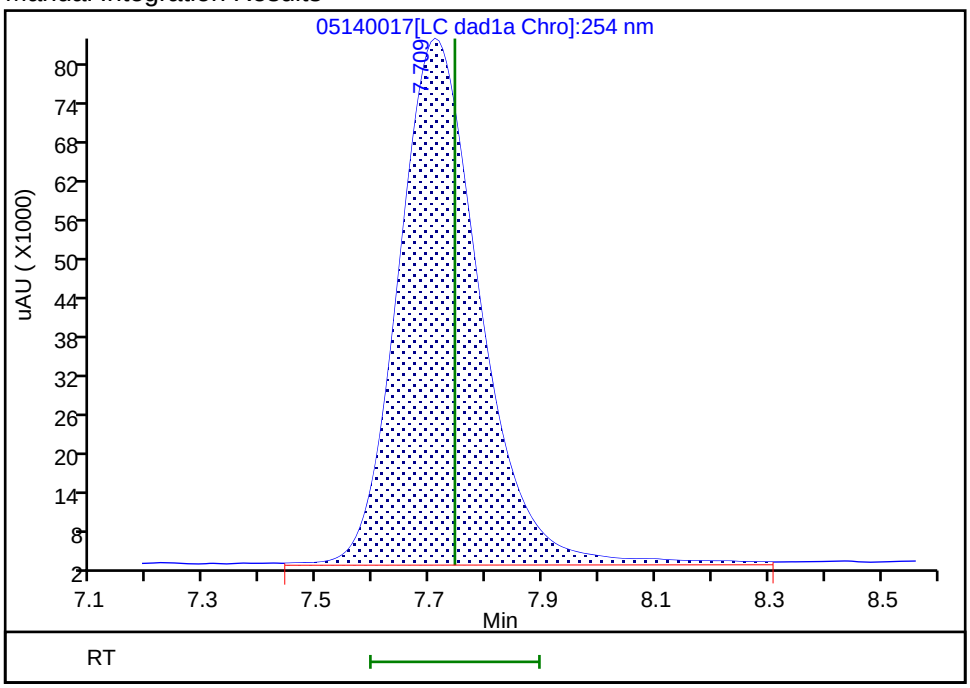
Not Detected
Expected RT: 7.74

Processing Integration Results



RT: 7.71
Area: 820612
Amount: 3.054381
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:36:42
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140018.D				
Lims ID:	IC DMT 8				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	14-May-2020 22:41:23	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 8				
Misc. Info.:	280-0091518-018				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:02	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

First Level Reviewer: zhangji Date: 15-May-2020 11:36:48

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.408	5.417	-0.009	410159	1.00	0.9411	
4 DNX	1	6.214	6.231	-0.017	308552	1.00	0.9606	
7 MNX	1	7.728	7.744	-0.016	316150	1.17	1.16	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

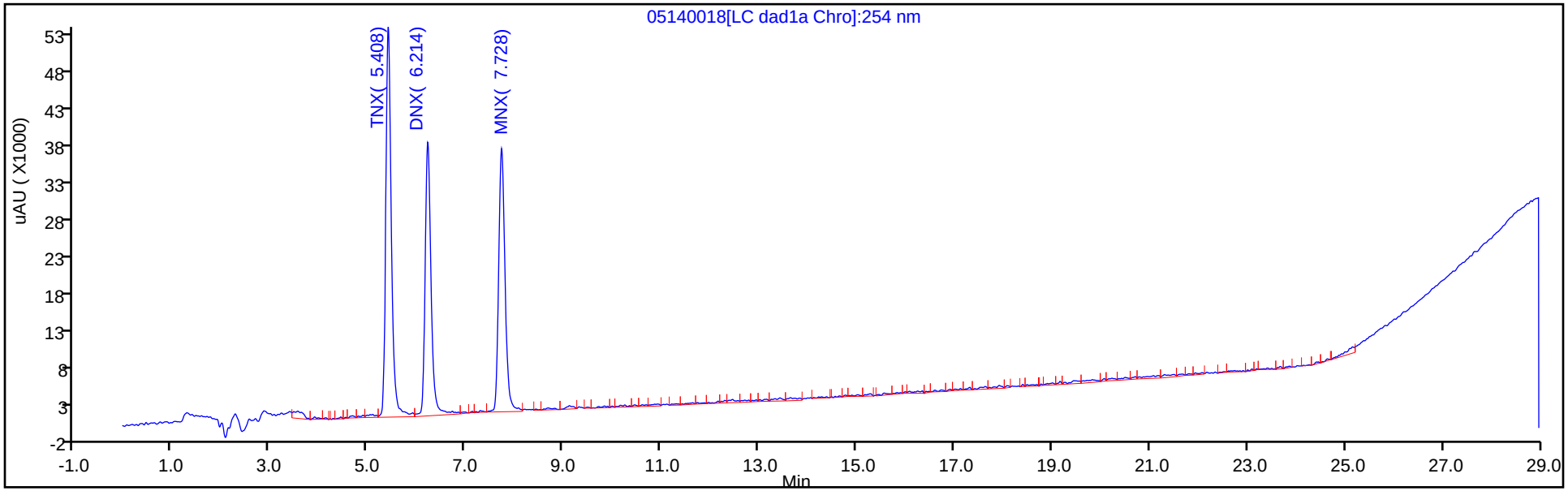
8330 DMT_00006 Amount Added: 50.00 Units: uL

Report Date: 15-May-2020 12:01:03 Chrom Revision: 2.3 05-May-2020 17:48:18

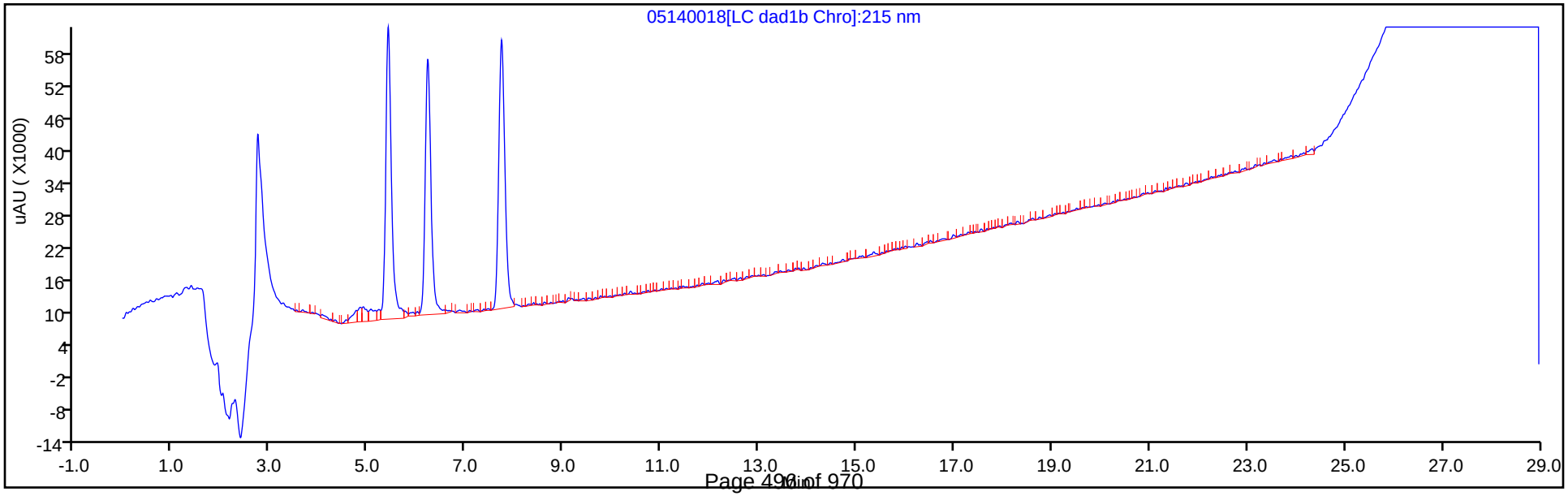
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140018.d				
Injection Date:	14-May-2020 22:41:23	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 8			Worklist Smp#:	18
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

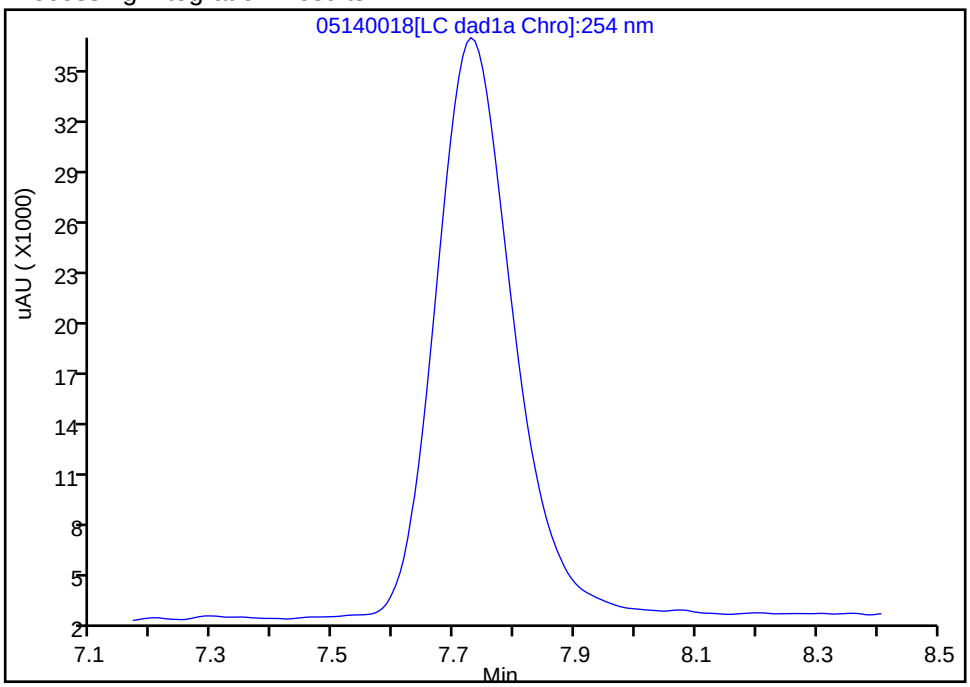
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140018.d				
Injection Date:	14-May-2020 22:41:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

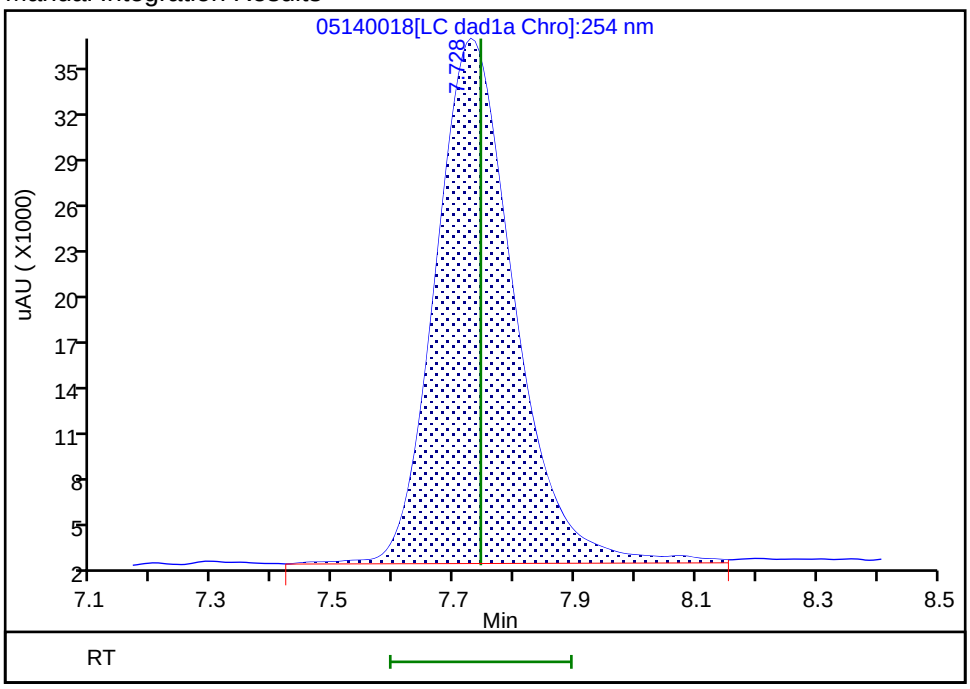
Not Detected
Expected RT: 7.74

Processing Integration Results



Manual Integration Results

RT: 7.73
Area: 316150
Amount: 1.164277
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:36:46
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140019.D				
Lims ID:	IC DMT 7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	14-May-2020 23:16:26	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 7				
Misc. Info.:	280-0091518-019				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:03	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				
First Level Reviewer: zhangji		Date:	15-May-2020 11:36:56		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.416	5.417	-0.001	290493	0.7007	0.6665	
4 DNX	1	6.223	6.231	-0.008	211753	0.7007	0.6592	
7 MNX	1	7.736	7.744	-0.008	229725	0.8169	0.8405	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8330 DMT_00006 Amount Added: 35.00 Units: uL

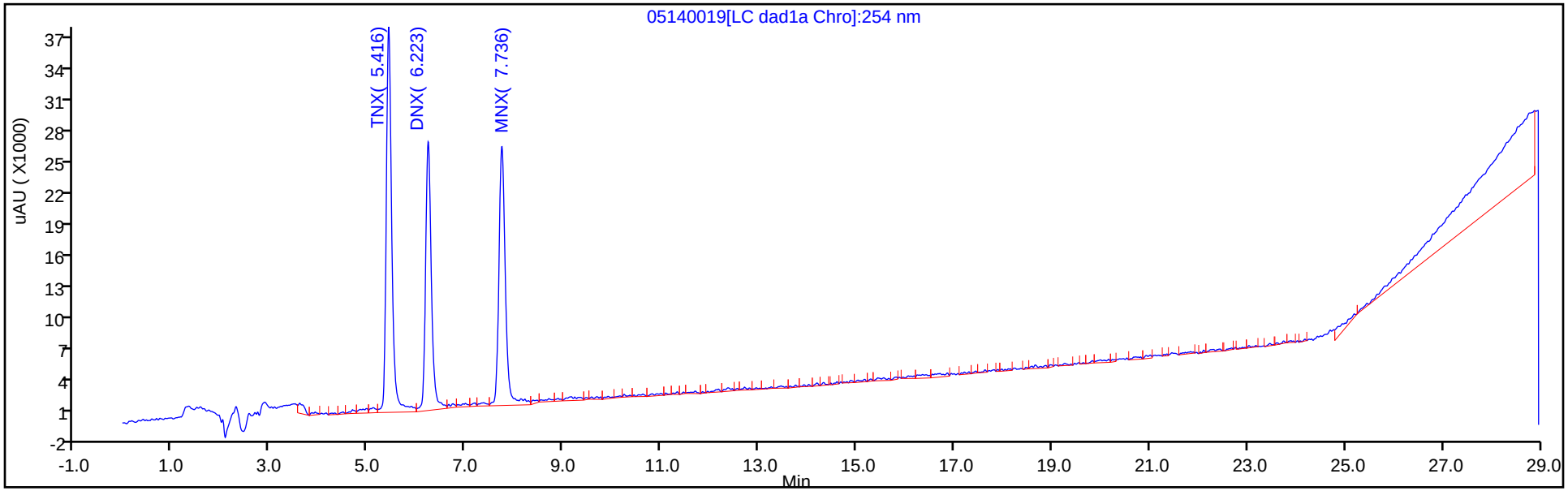
Report Date: 15-May-2020 12:01:03 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

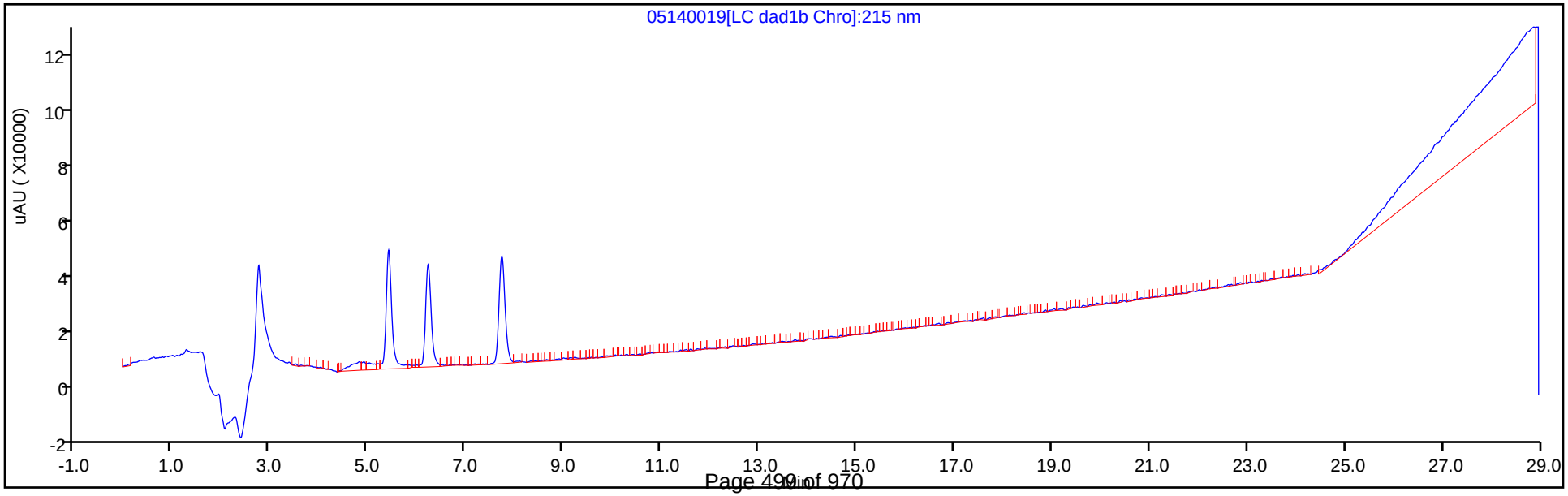
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140019.d

Injection Date:	14-May-2020 23:16:26	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 7			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

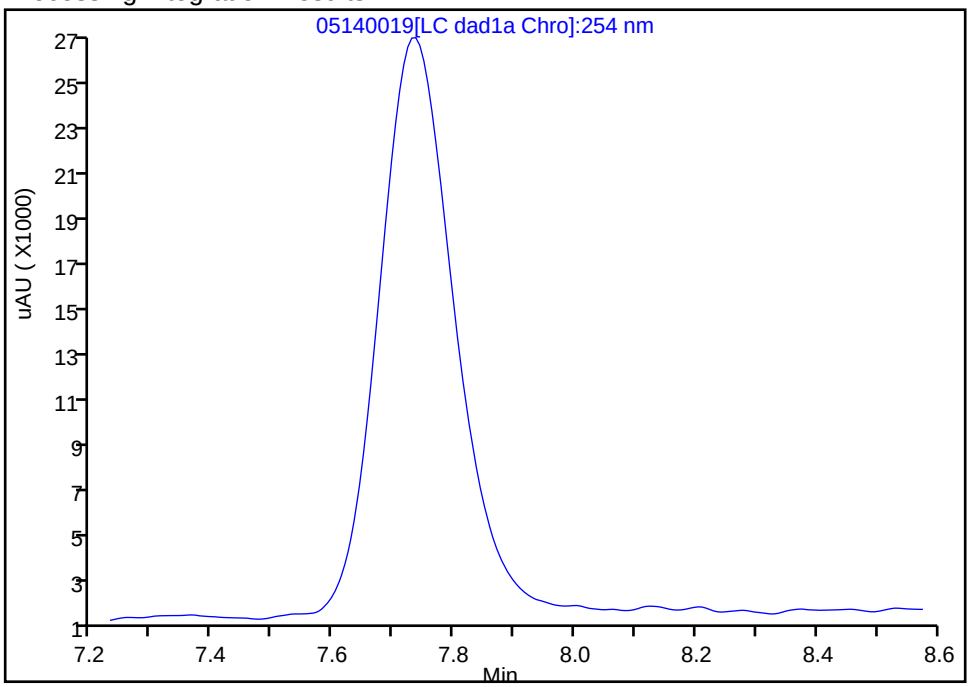
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140019.d				
Injection Date:	14-May-2020 23:16:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

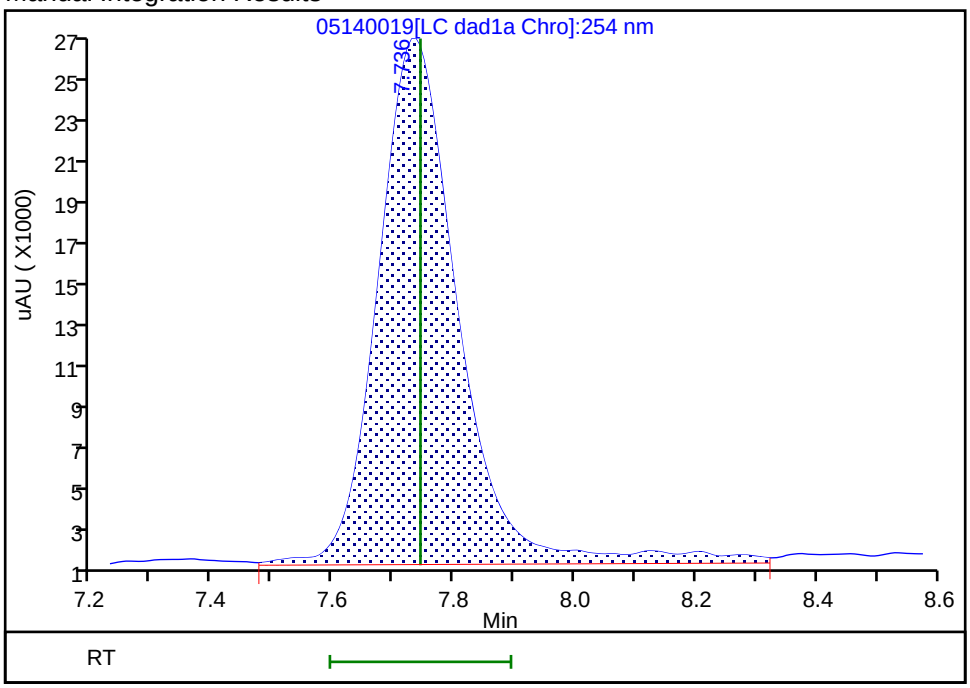
Processing Integration Results

Not Detected
Expected RT: 7.74



Manual Integration Results

RT: 7.74
Area: 229725
Amount: 0.840462
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:36:55
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140020.D				
Lims ID:	IC DMT 6				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	14-May-2020 23:51:28	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 6				
Misc. Info.:	280-0091518-020				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:03	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

First Level Reviewer: zhangji Date: 15-May-2020 11:37:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.419	5.417	0.002	164894	0.4004	0.3784	
4 DNX	1	6.226	6.231	-0.005	127693	0.4004	0.3975	
7 MNX	1	7.739	7.744	-0.005	133999	0.4668	0.4818	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

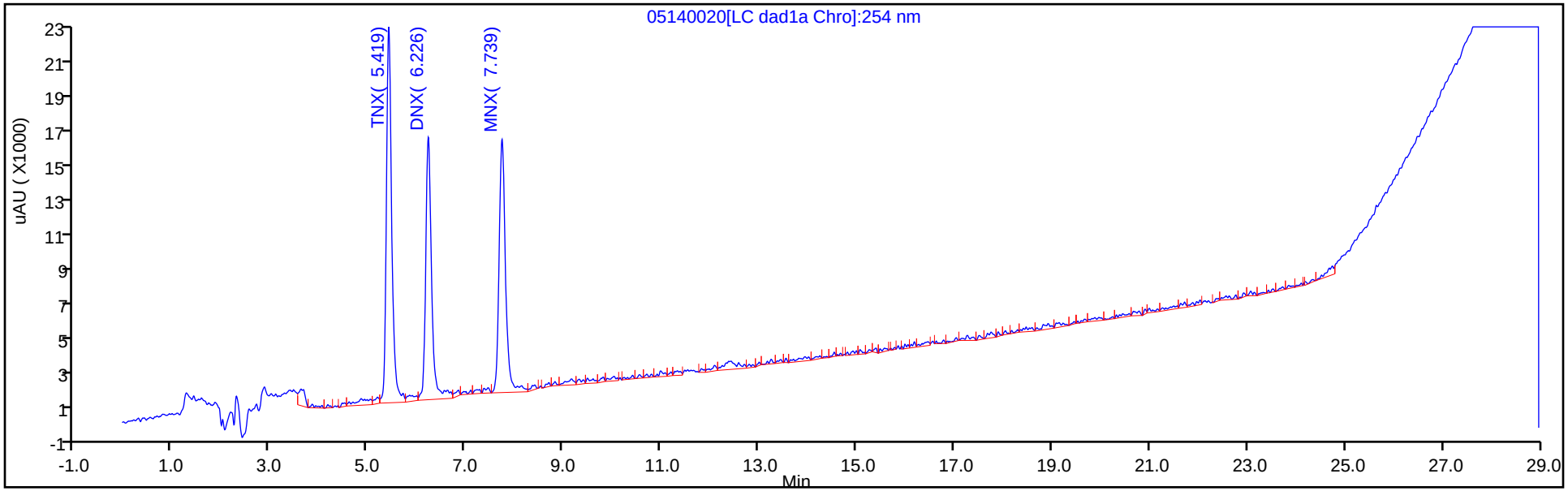
8330 DMT_00006 Amount Added: 20.00 Units: uL

Report Date: 15-May-2020 12:01:04 Chrom Revision: 2.3 05-May-2020 17:48:18

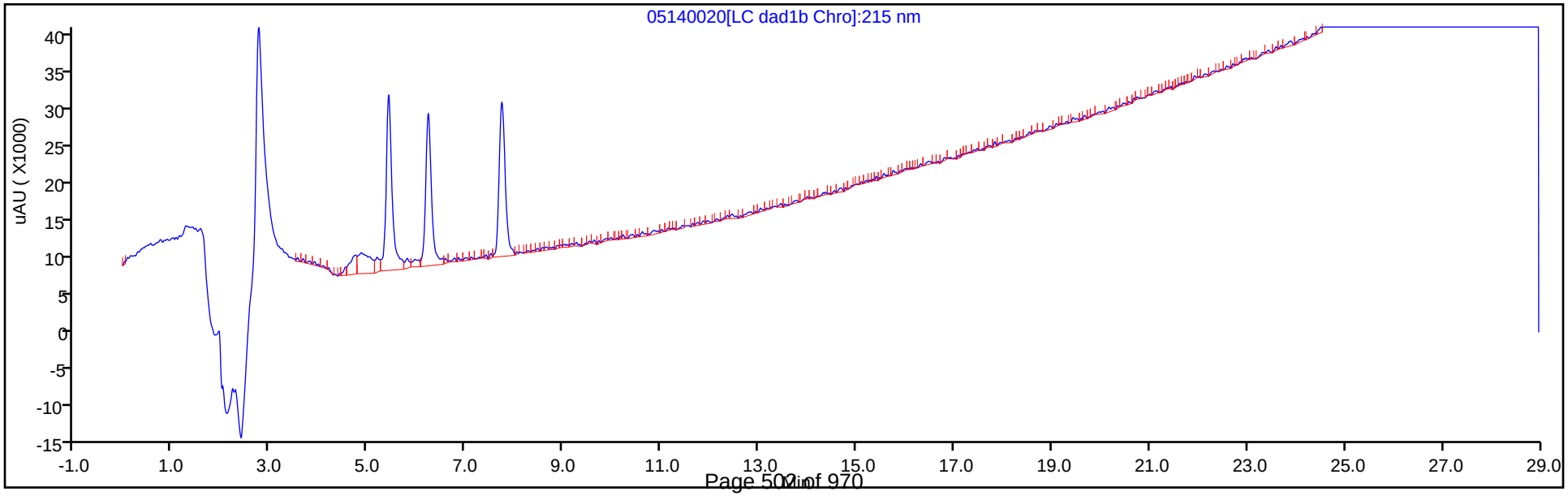
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140020.d				
Injection Date:	14-May-2020 23:51:28	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 6			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

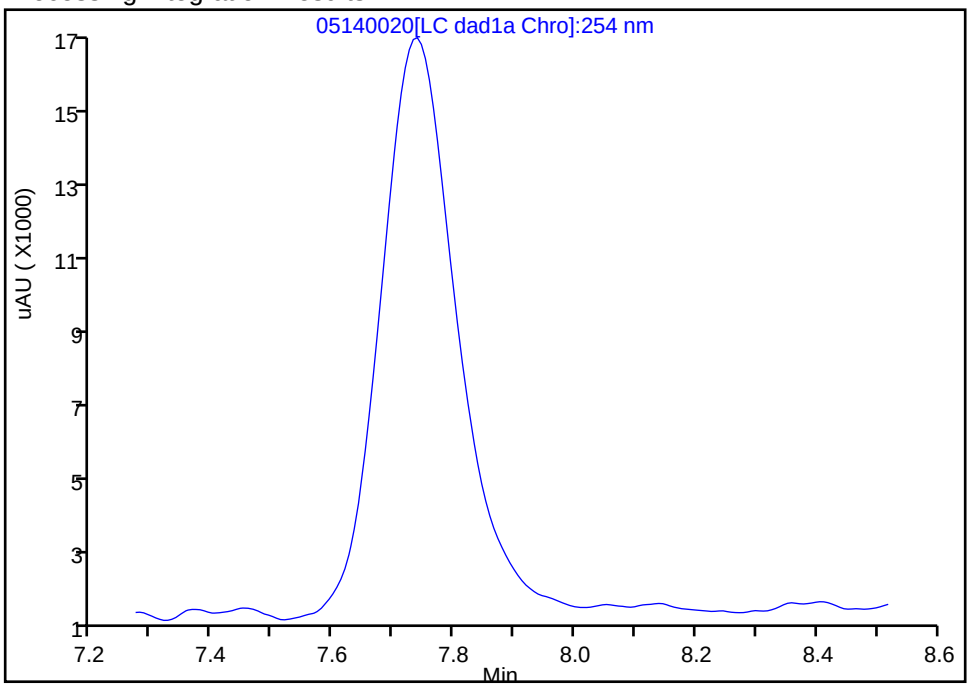
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140020.d				
Injection Date:	14-May-2020 23:51:28	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

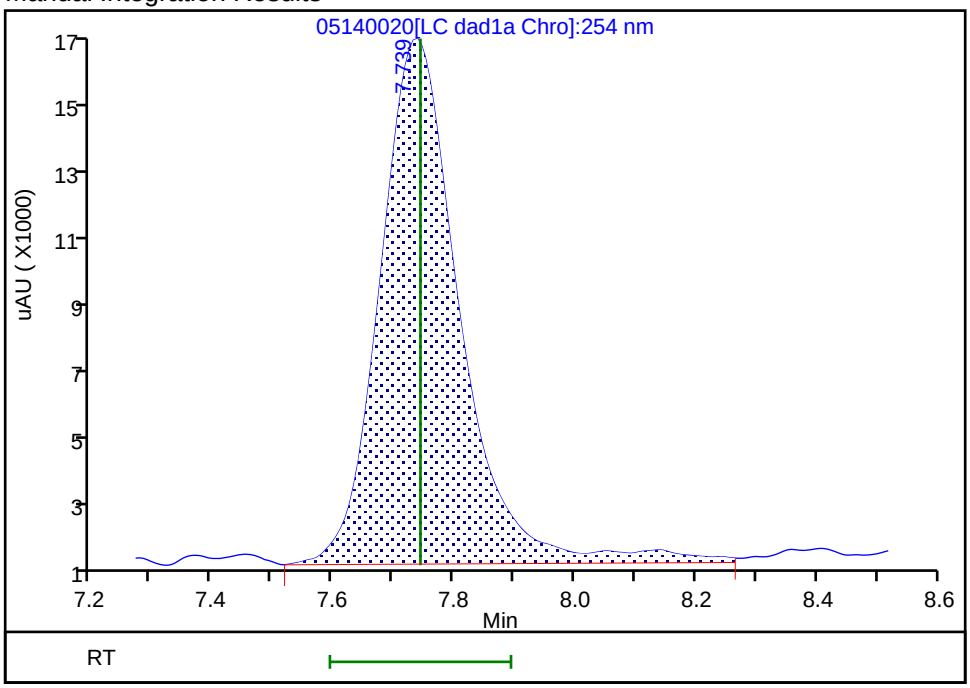
Not Detected
Expected RT: 7.74

Processing Integration Results



RT: 7.74
Area: 133999
Amount: 0.481799
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:36:59
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140021.D				
Lims ID:	IC DMT 5				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	15-May-2020 00:26:25	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 5				
Misc. Info.:	280-0091518-021				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:04	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.417	5.417	0.000	101309	0.2503	0.2325	
4 DNX	1	6.231	6.231	0.000	77077	0.2503	0.2400	
7 MNX	1	7.744	7.744	0.000	83427	0.2918	0.2923	

Reagents:

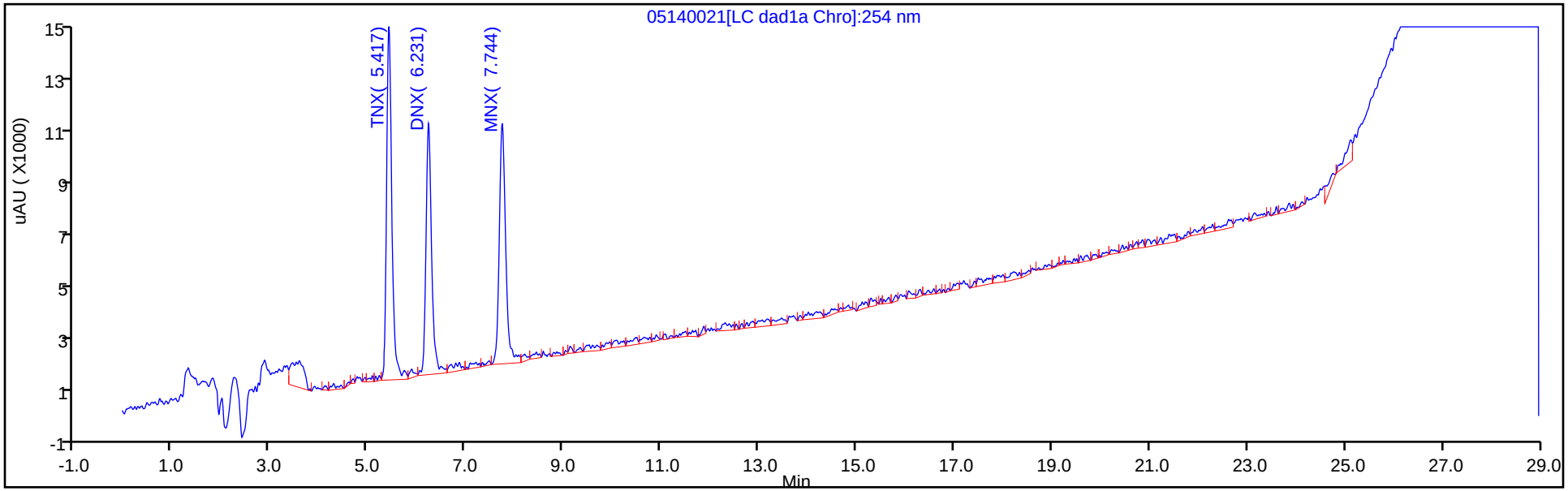
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 15-May-2020 12:01:04 Chrom Revision: 2.3 05-May-2020 17:48:18

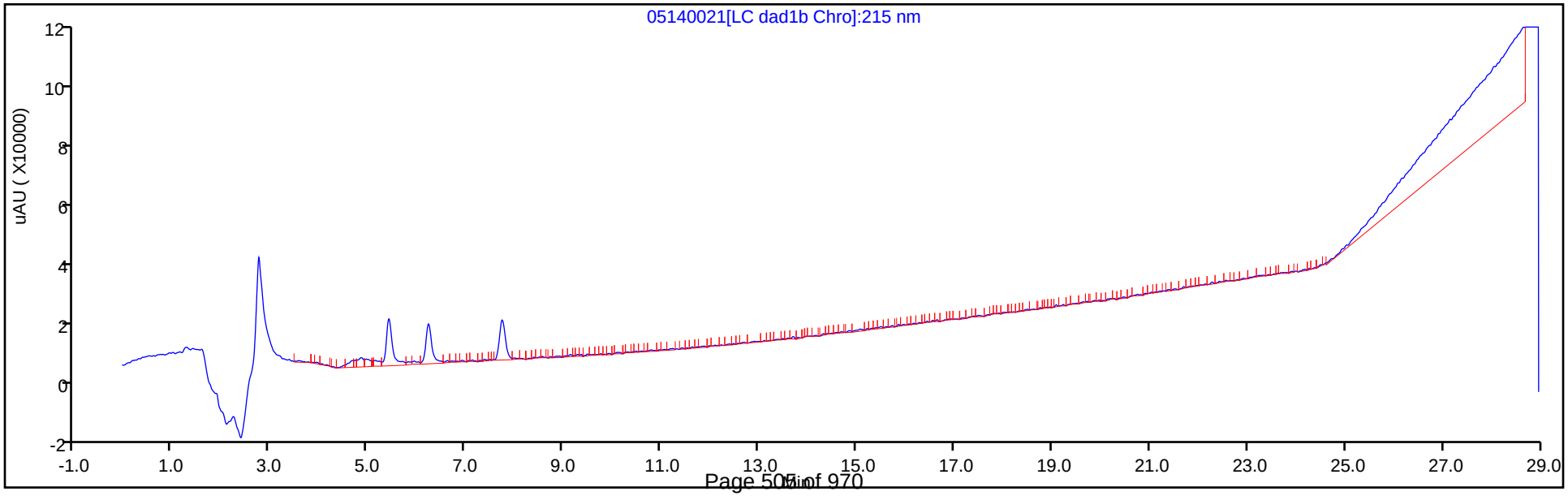
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140021.d				
Injection Date:	15-May-2020 00:26:25	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 5			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140022.D				
Lims ID:	IC DMT 4				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	15-May-2020 01:01:25	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 4				
Misc. Info.:	280-0091518-022				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:04	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.420	5.417	0.003	45279	0.1001	0.1039	
4 DNX	1	6.226	6.231	-0.005	32313	0.1001	0.1006	
7 MNX	1	7.740	7.744	-0.004	34453	0.1167	0.1088	

Reagents:

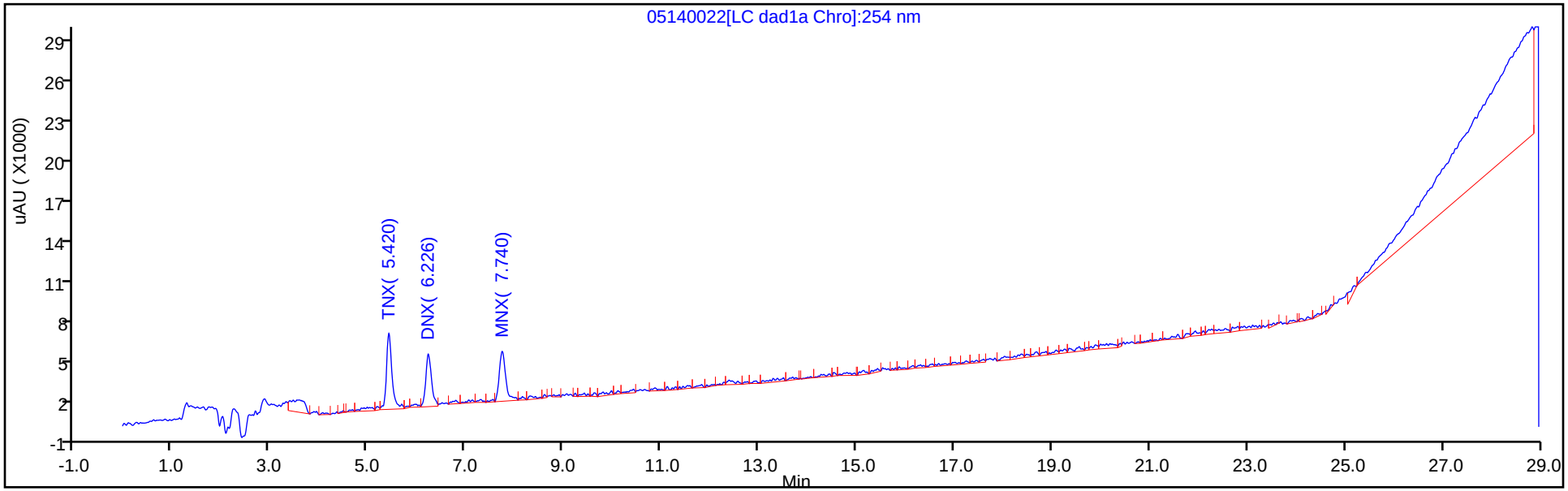
8330 DMT_00006 Amount Added: 5.00 Units: uL

Report Date: 15-May-2020 12:01:04 Chrom Revision: 2.3 05-May-2020 17:48:18

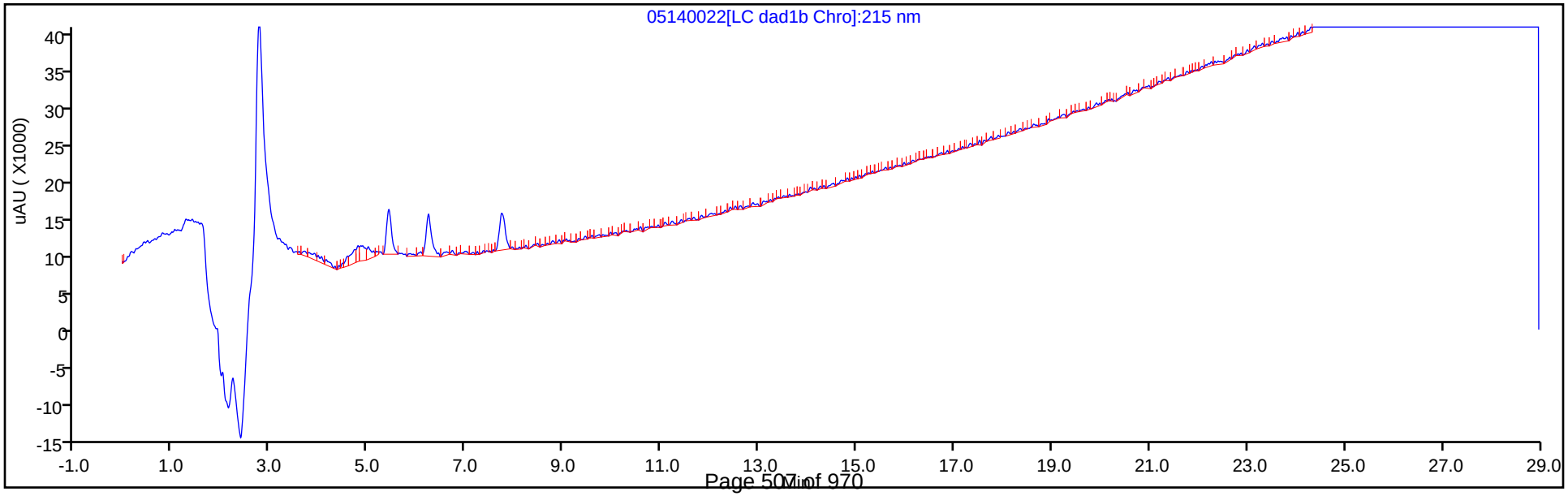
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140022.d				
Injection Date:	15-May-2020 01:01:25	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 4			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140023.D				
Lims ID:	IC DMT 3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	15-May-2020 01:36:23	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 3				
Misc. Info.:	280-0091518-023				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:05	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.411	5.417	-0.006	21320	0.0501	0.0489	
4 DNX	1	6.224	6.231	-0.007	16063	0.0501	0.0500	
7 MNX	1	7.744	7.744	0.000	19669	0.0584	0.0534	

Reagents:

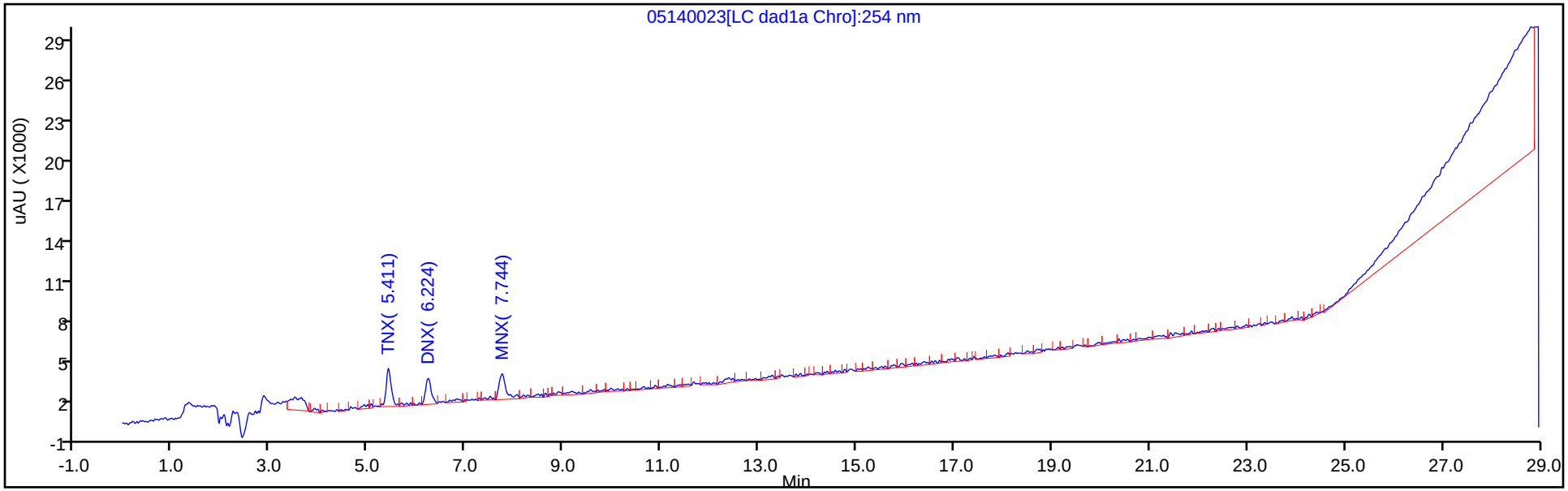
8330 DMT_00006 Amount Added: 2.50 Units: uL

Report Date: 15-May-2020 12:01:05 Chrom Revision: 2.3 05-May-2020 17:48:18

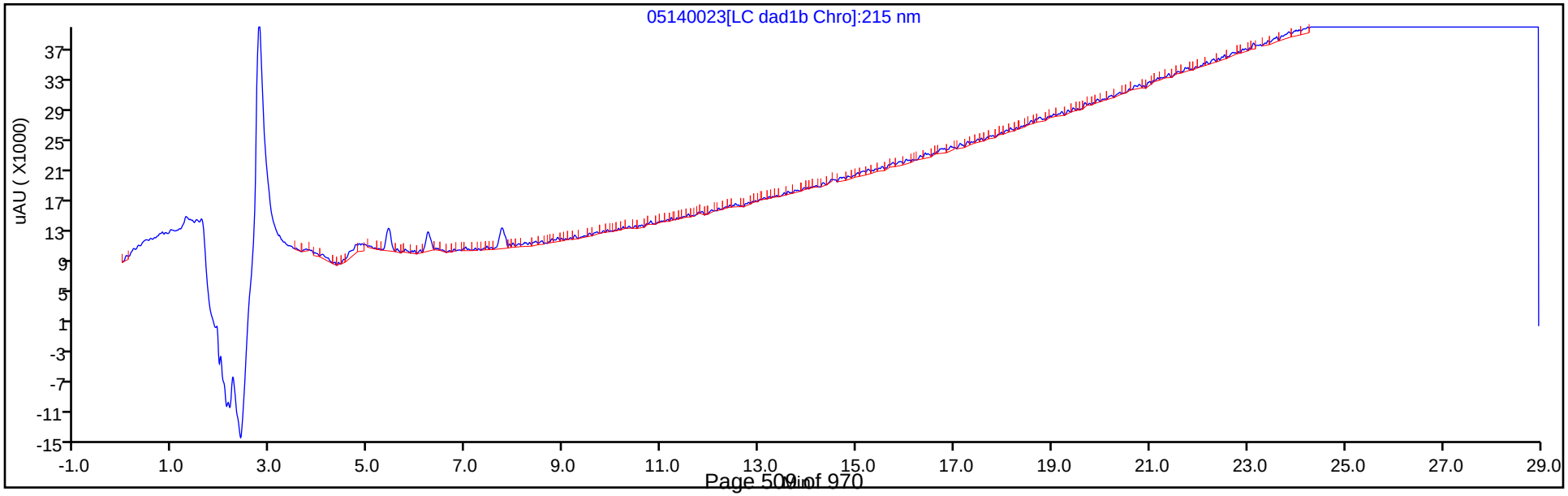
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140023.d				
Injection Date:	15-May-2020 01:36:23	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Lims ID:	IC DMT 2				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	15-May-2020 02:11:20	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 2				
Misc. Info.:	280-0091518-024				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:05	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.430	5.417	0.013	11052	0.0200	0.0254	
4 DNX	1	6.217	6.231	-0.014	7620	0.0200	0.0237	
7 MNX	1	7.737	7.744	-0.007	11914	0.0233	0.0244	

Reagents:

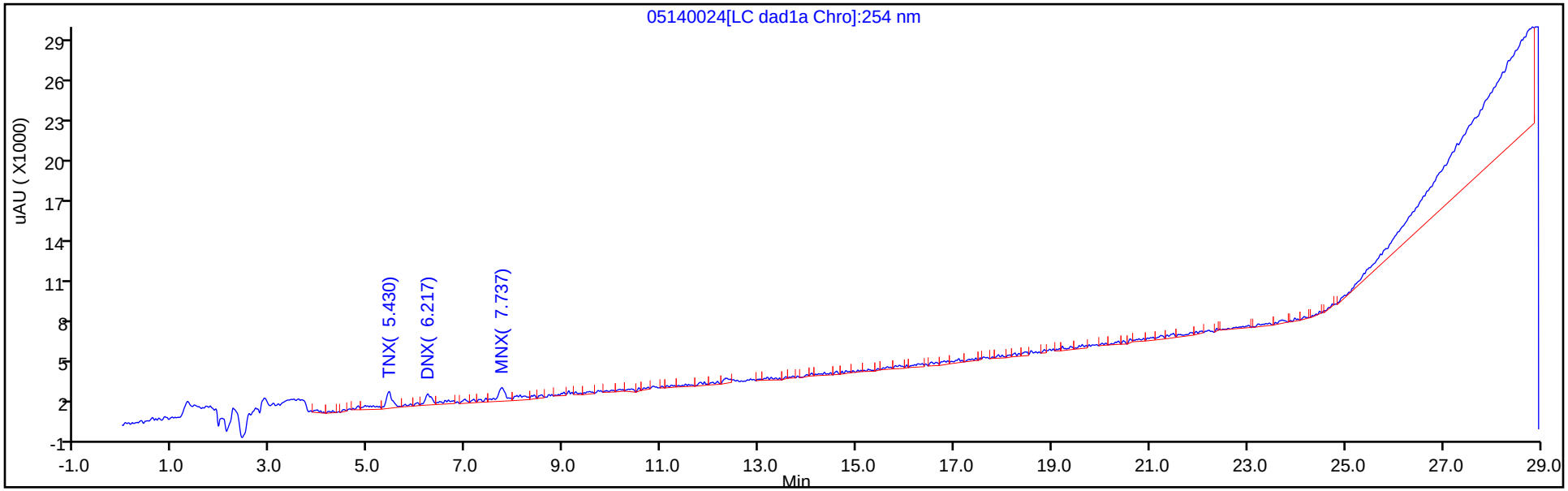
8330 DMT_00006 Amount Added: 1.00 Units: uL

Report Date: 15-May-2020 12:01:05 Chrom Revision: 2.3 05-May-2020 17:48:18

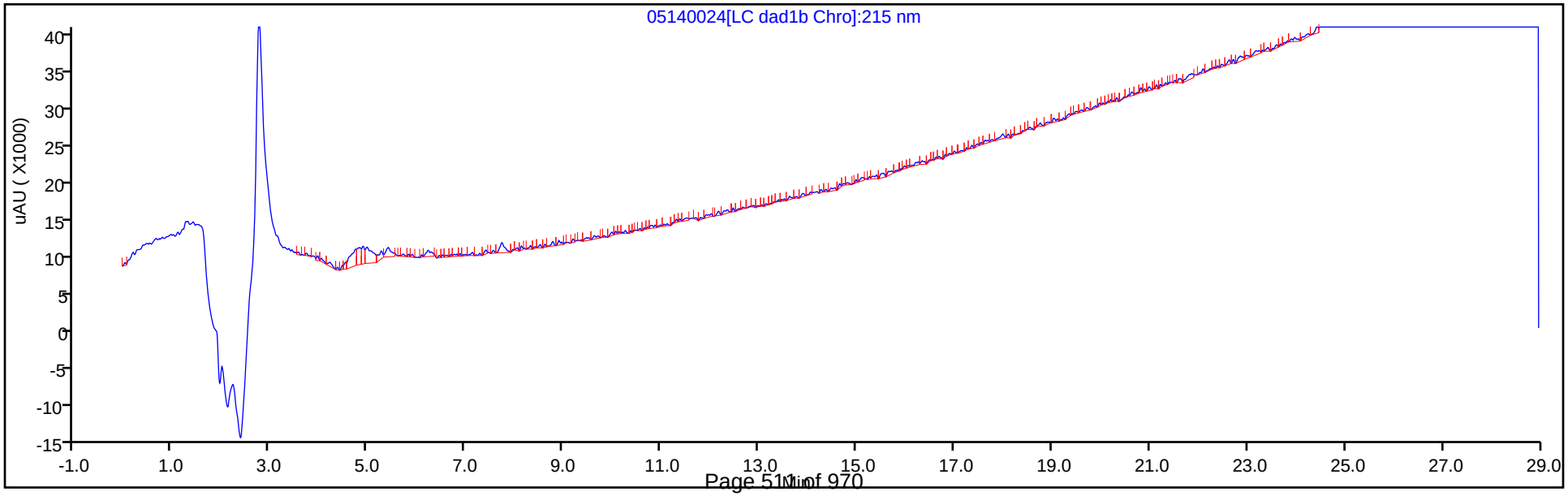
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140024.d				
Injection Date:	15-May-2020 02:11:20	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 487658

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	6.592	6.588	6.589	6.591	6.591	6.591	6.591	6.590			6.491 - 6.691	6.590
DNX	6.912	6.914	6.915	6.918	6.917	6.918	6.918	6.916			6.818 - 7.018	6.916
MNX	7.359	7.354	7.355	7.358	7.357	7.358	7.358	7.356			7.208 - 7.508	7.357

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 487658

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.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	216933 212722	213207 212002	209810 219067	231497 225632	Ave		217608.702				3.5		20.0			
DNX	117133 161214	137942 160624	149221 163997	167576 165720	Ave		152928.307				11.5		20.0			
MNX	175621 156707	161285 152355	156238 154895	157686 153564	Ave		158544.202				4.7		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.: 280-137006-1 Analy Batch No.: 487658

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.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	4343 148550	10671 219286	21002 564643	57932	85174	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	2345 112549	6904 164161	14937 414714	41936	64550	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Ave	4099 124459	9411 180763	18233 448024	46005	73151	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:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040025.D				
Lims ID:	IC DMT L8				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	04-Mar-2020 21:00:00	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L8				
Misc. Info.:	280-0089779-025				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:20	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:30:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.590	6.591	-0.001	564643	2.50	2.59	M
5 DNX	1	6.916	6.918	-0.002	414714	2.50	2.71	M
6 MNX	1	7.356	7.358	-0.002	448024	2.92	2.83	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

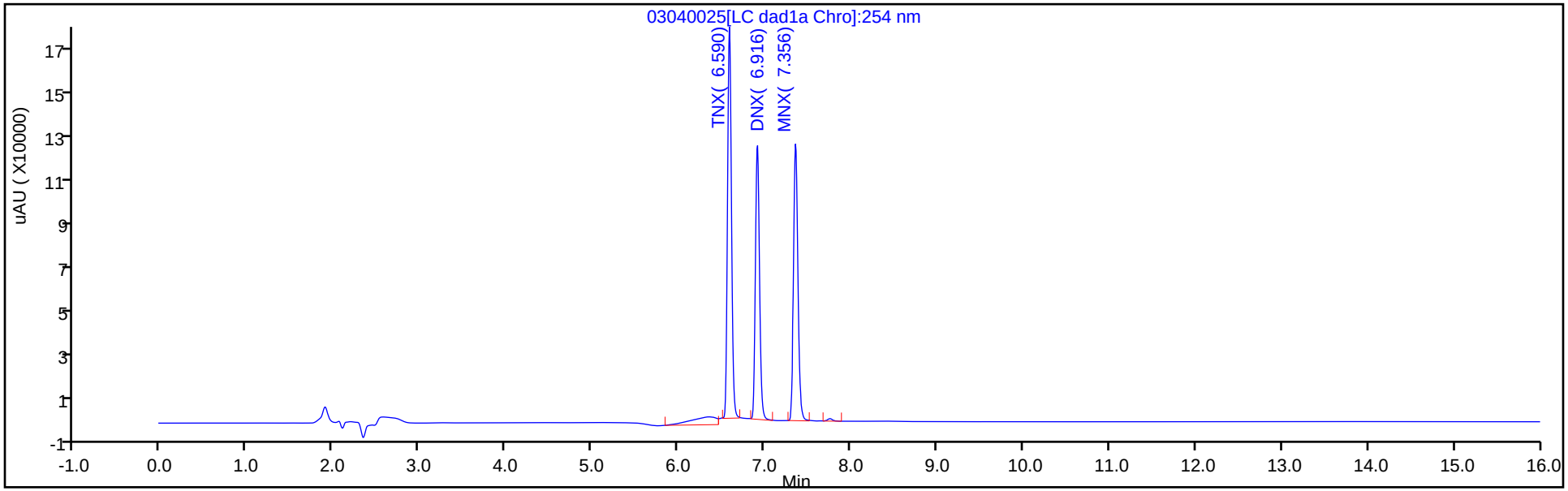
8330 DMT_00005 Amount Added: 125.00 Units: uL

Report Date: 06-Mar-2020 10:25:21 Chrom Revision: 2.3 19-Feb-2020 16:45:46

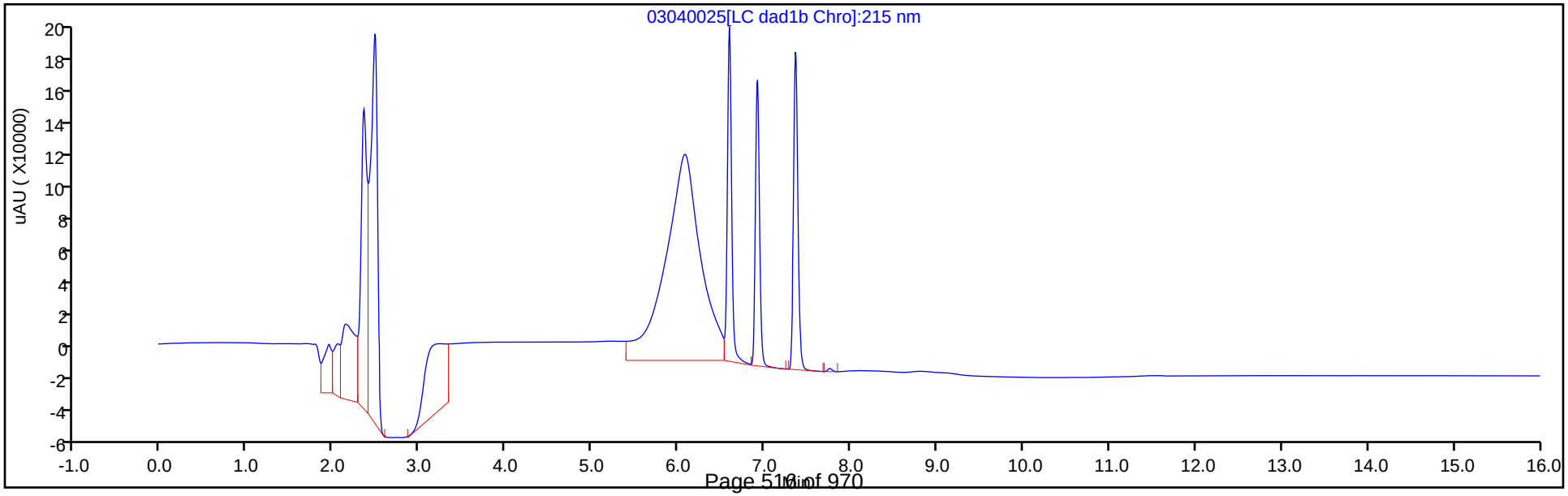
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d				
Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L8			Worklist Smp#:	25
Client ID:					
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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

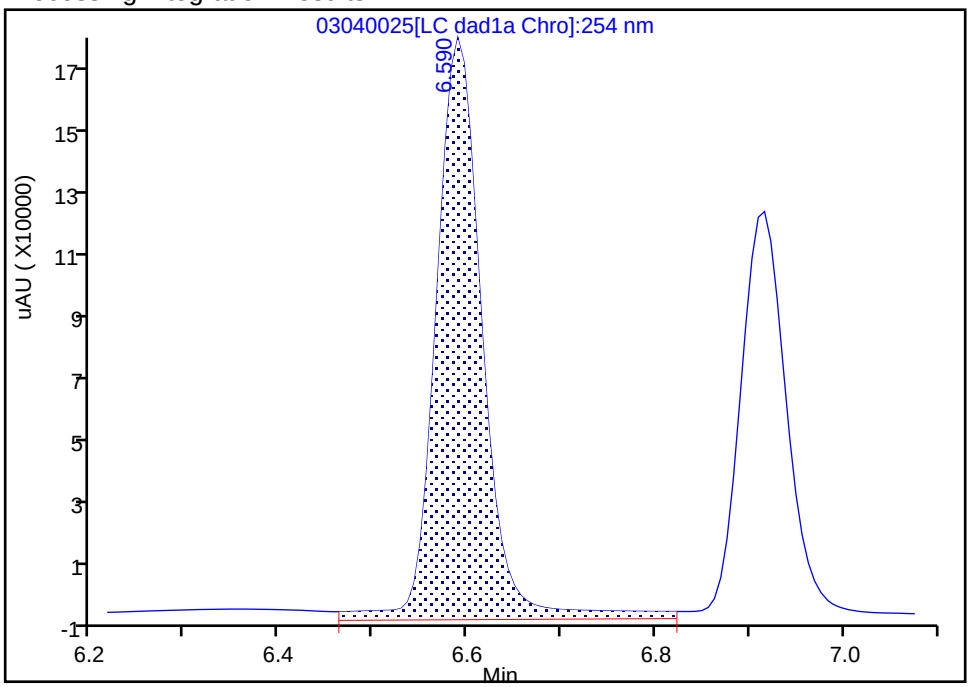
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d				
Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

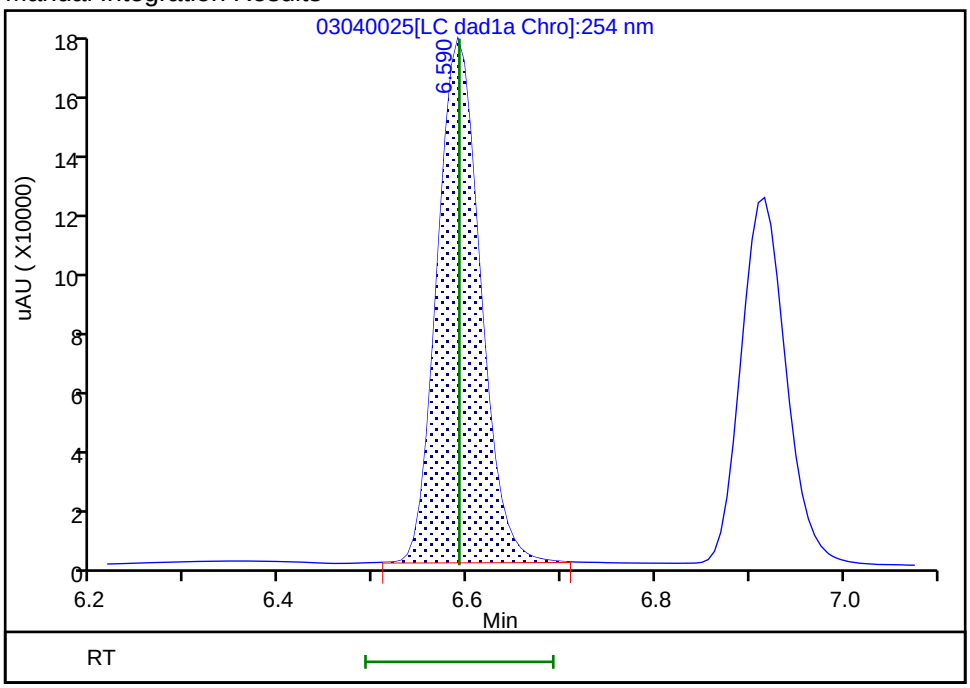
Processing Integration Results

RT: 6.59
Area: 620676
Amount: 2.450904
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 564643
Amount: 2.594763
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:29:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

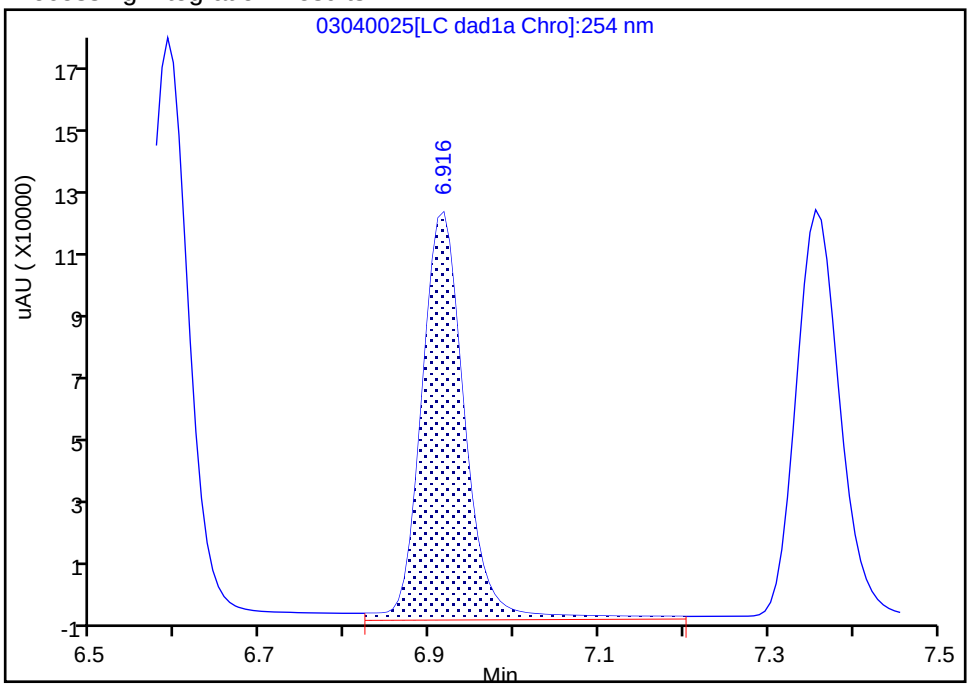
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d				
Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

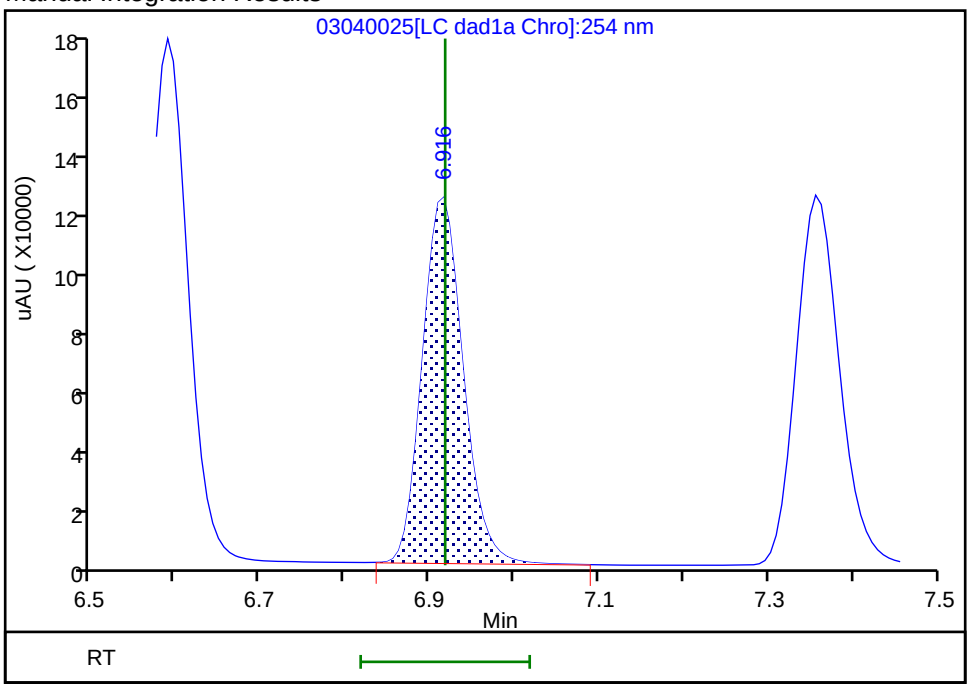
Processing Integration Results

RT: 6.92
Area: 445633
Amount: 2.254277
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 414714
Amount: 2.711820
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:29:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

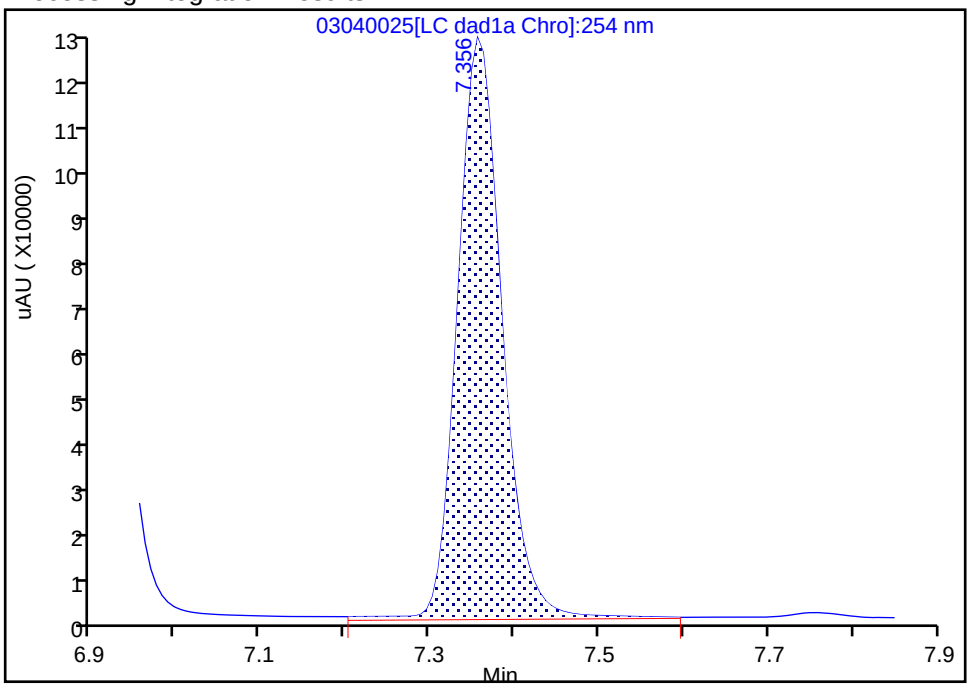
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d				
Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

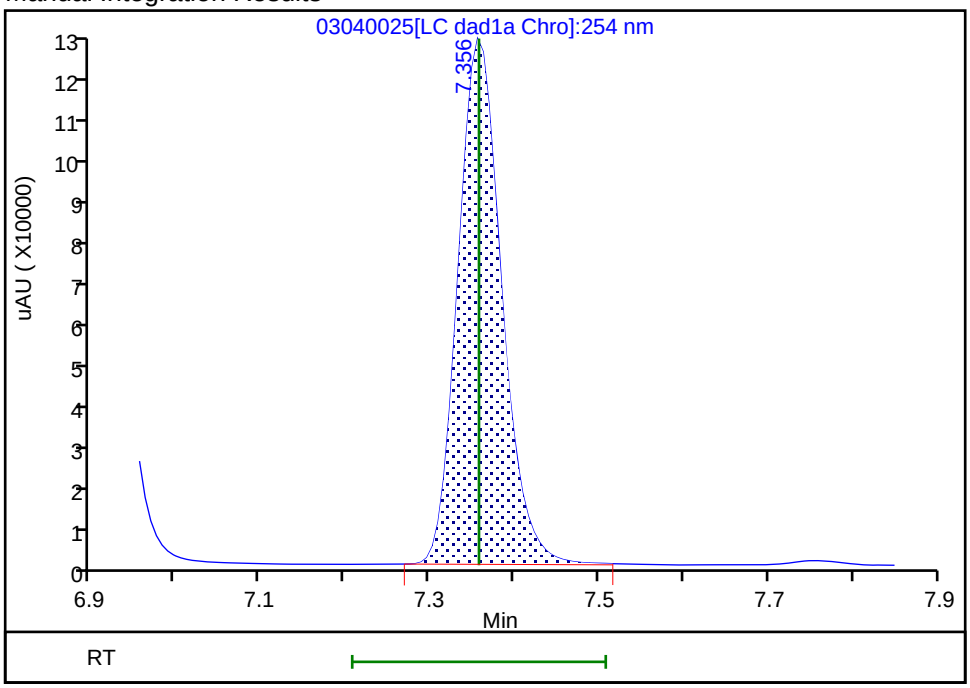
Processing Integration Results

RT: 7.36
Area: 461400
Amount: 2.899748
Amount Units: ug/mL



Manual Integration Results

RT: 7.36
Area: 448024
Amount: 2.825862
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:00
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040026.D				
Lims ID:	IC DMT L7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	04-Mar-2020 21:23:03	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L7				
Misc. Info.:	280-0089779-026				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:21	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:30:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	219286	1.00	1.01	M
5 DNX	1	6.918	6.918	0.000	164161	1.00	1.07	M
6 MNX	1	7.358	7.358	0.000	180763	1.17	1.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

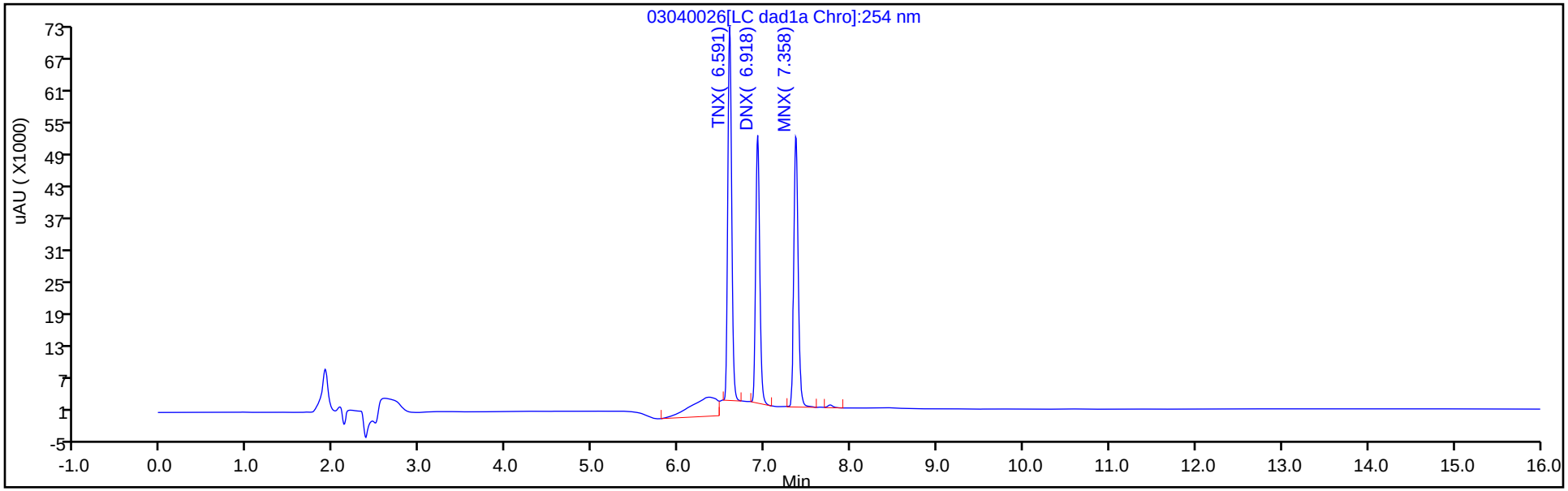
8330 DMT_00005 Amount Added: 50.00 Units: uL

Report Date: 06-Mar-2020 10:25:22 Chrom Revision: 2.3 19-Feb-2020 16:45:46

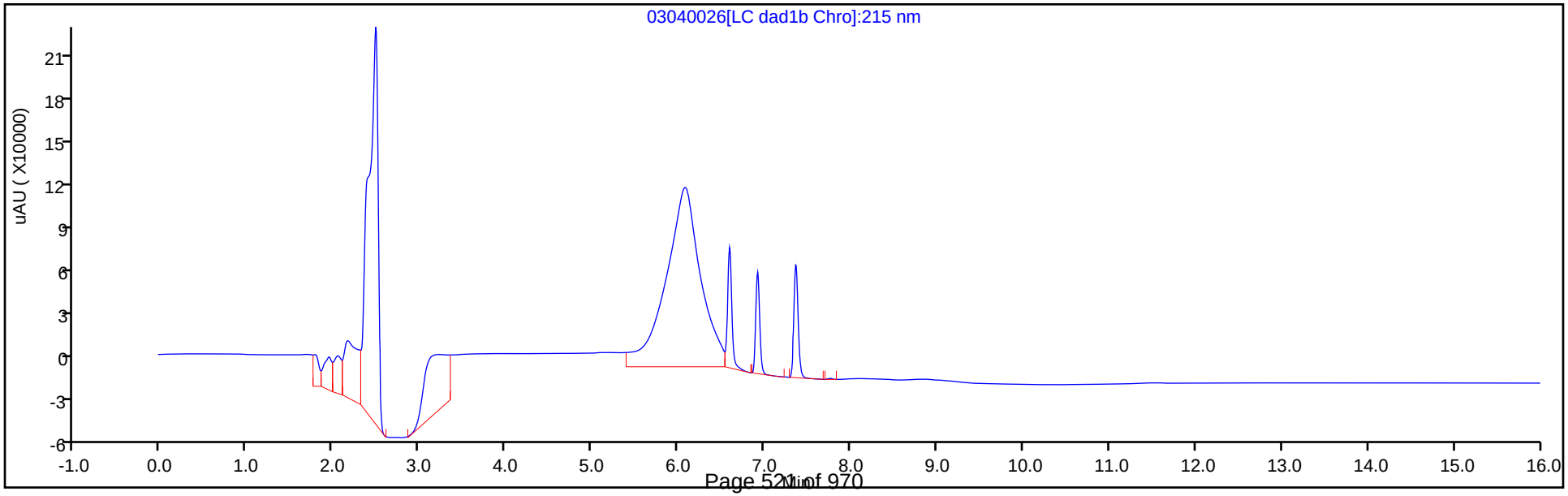
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d				
Injection Date:	04-Mar-2020 21:23:03	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L7			Worklist Smp#:	26
Client ID:					
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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

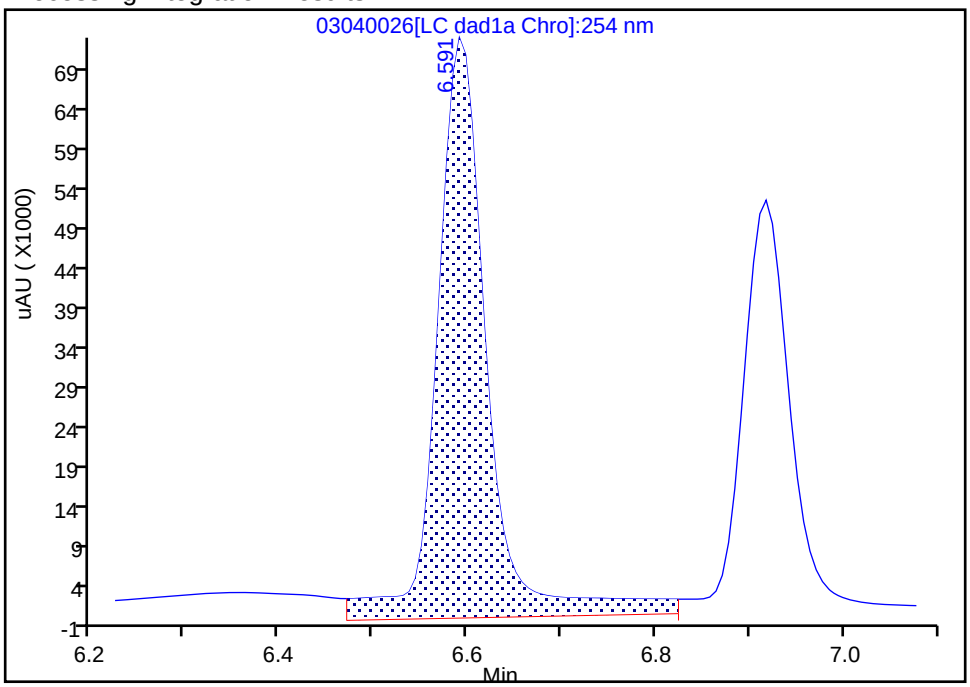
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d				
Injection Date:	04-Mar-2020 21:23:03	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

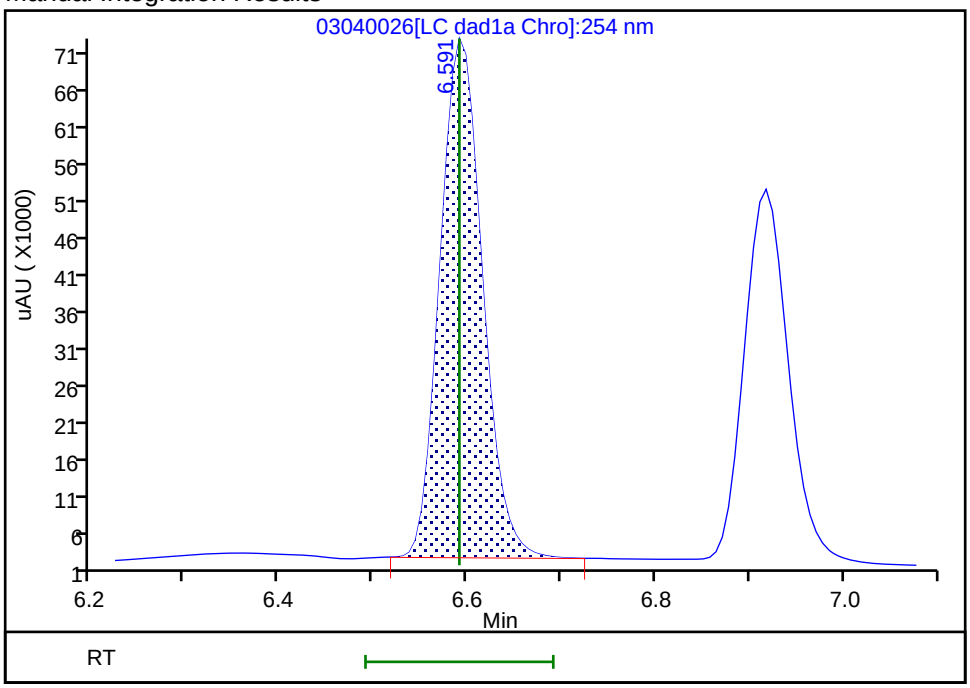
Processing Integration Results

RT: 6.59
Area: 269369
Amount: 1.068967
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 219286
Amount: 1.007708
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

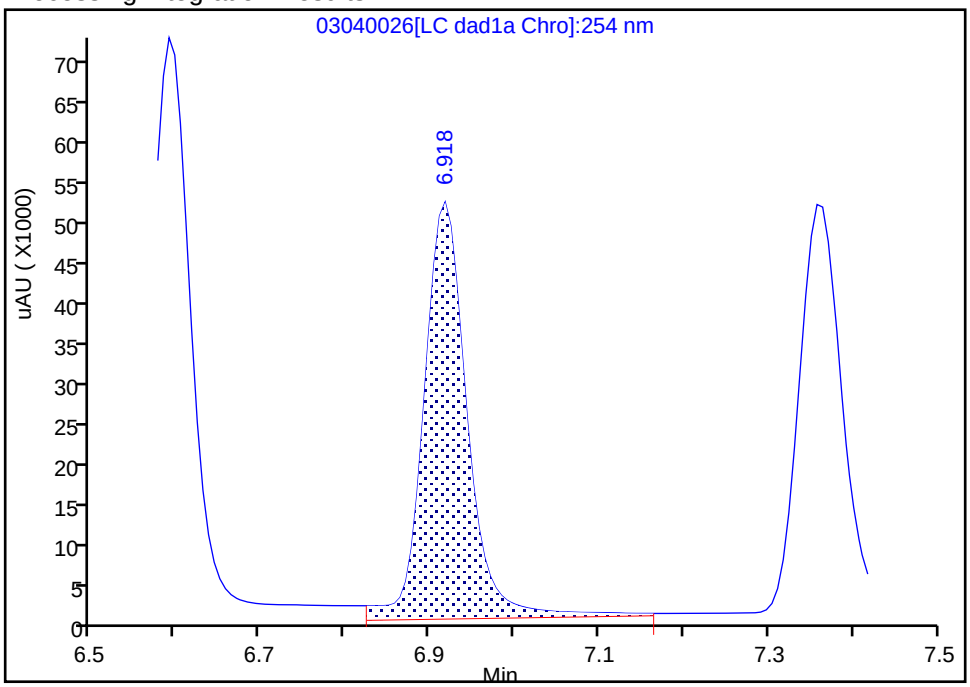
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d				
Injection Date:	04-Mar-2020 21:23:03	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

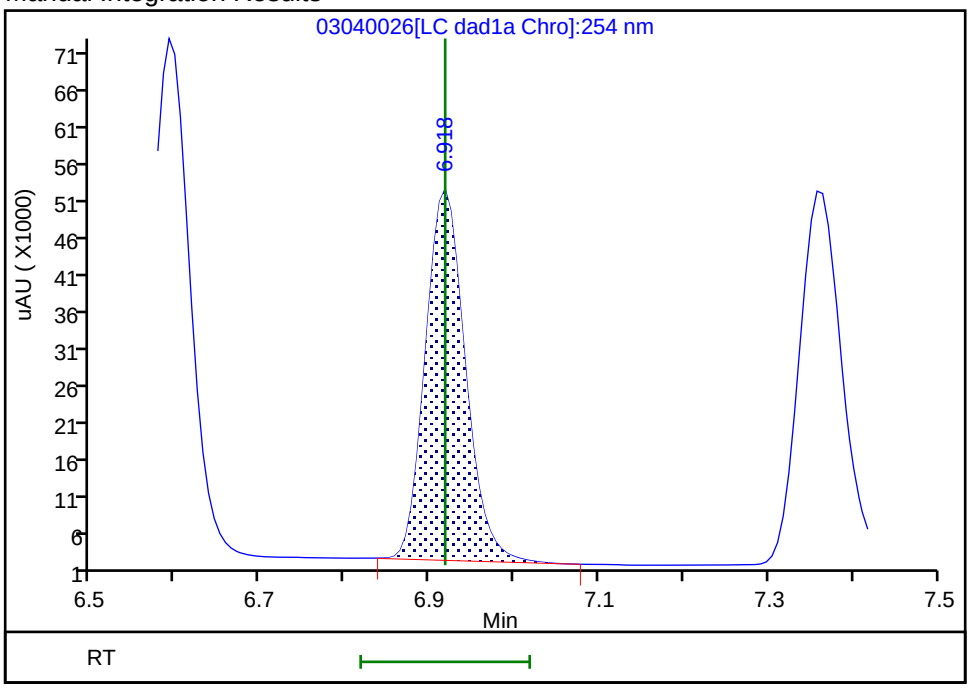
Processing Integration Results

RT: 6.92
Area: 184230
Amount: 0.939283
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 164161
Amount: 1.073451
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:26

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040027.D				
Lims ID:	IC DMT L6				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	04-Mar-2020 21:45:58	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L6				
Misc. Info.:	280-0089779-027				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:23	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:30:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	148550	0.7007	0.6826	M
5 DNX	1	6.918	6.918	0.000	112549	0.7007	0.7360	M
6 MNX	1	7.358	7.358	0.000	124459	0.8169	0.7850	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

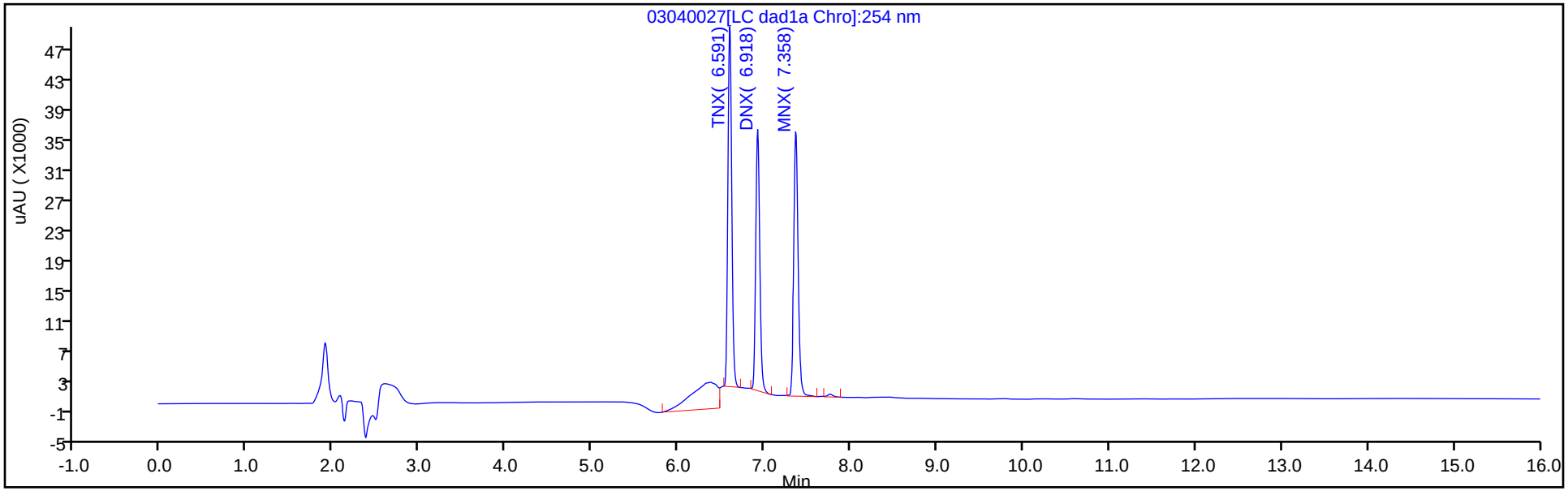
8330 DMT_00005 Amount Added: 35.00 Units: uL

Report Date: 06-Mar-2020 10:25:23 Chrom Revision: 2.3 19-Feb-2020 16:45:46

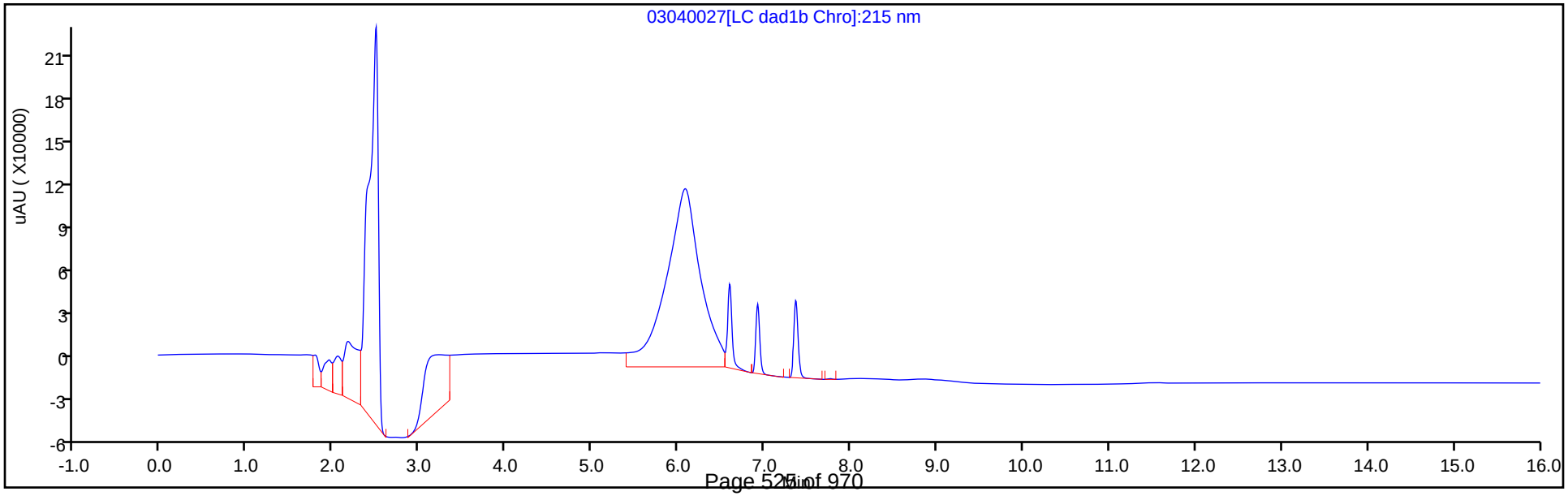
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d				
Injection Date:	04-Mar-2020 21:45:58	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L6			Worklist Smp#:	27
Client ID:					
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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

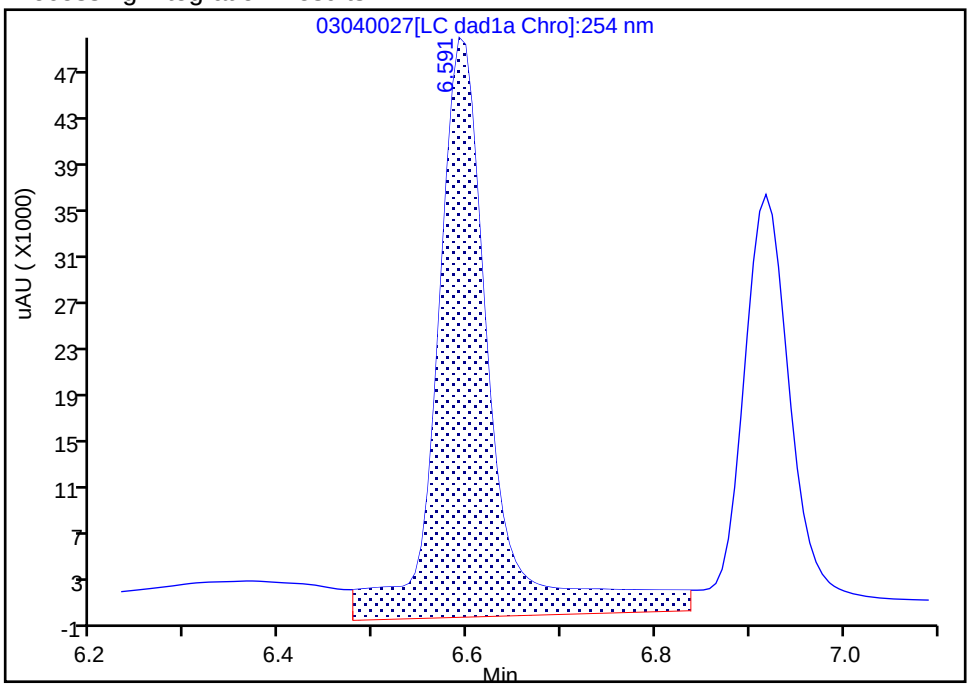
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d				
Injection Date:	04-Mar-2020 21:45:58	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

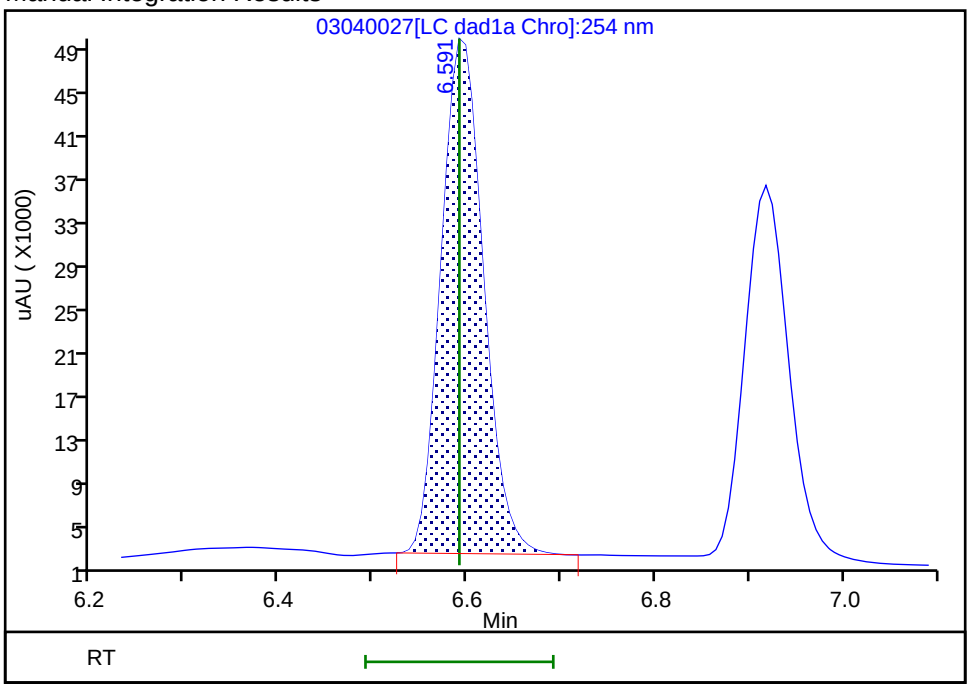
Processing Integration Results

RT: 6.59
Area: 198883
Amount: 0.812342
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 148550
Amount: 0.682647
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

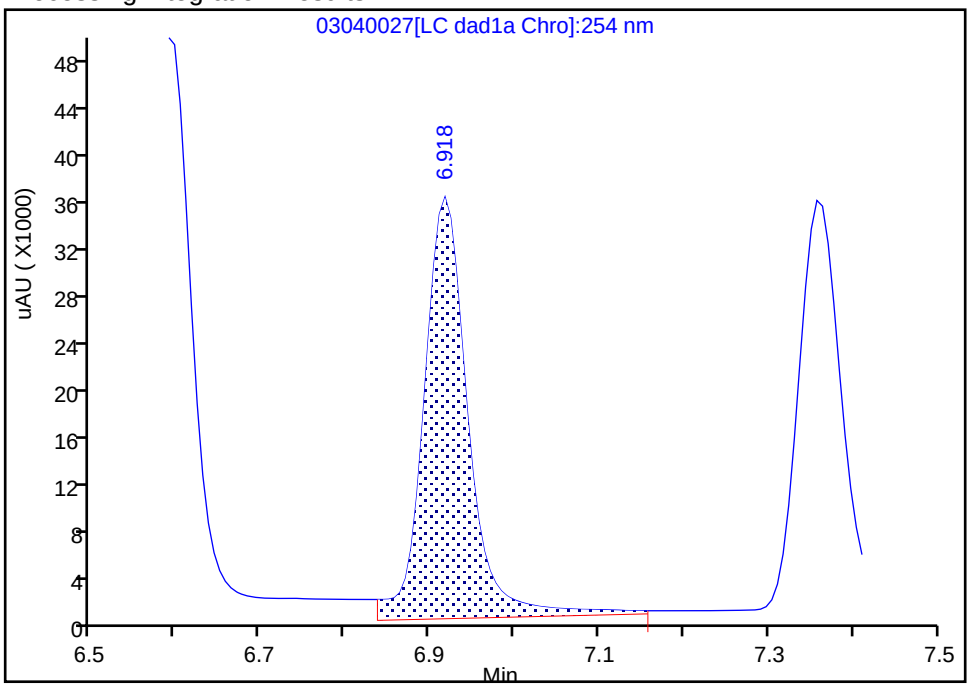
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d				
Injection Date:	04-Mar-2020 21:45:58	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

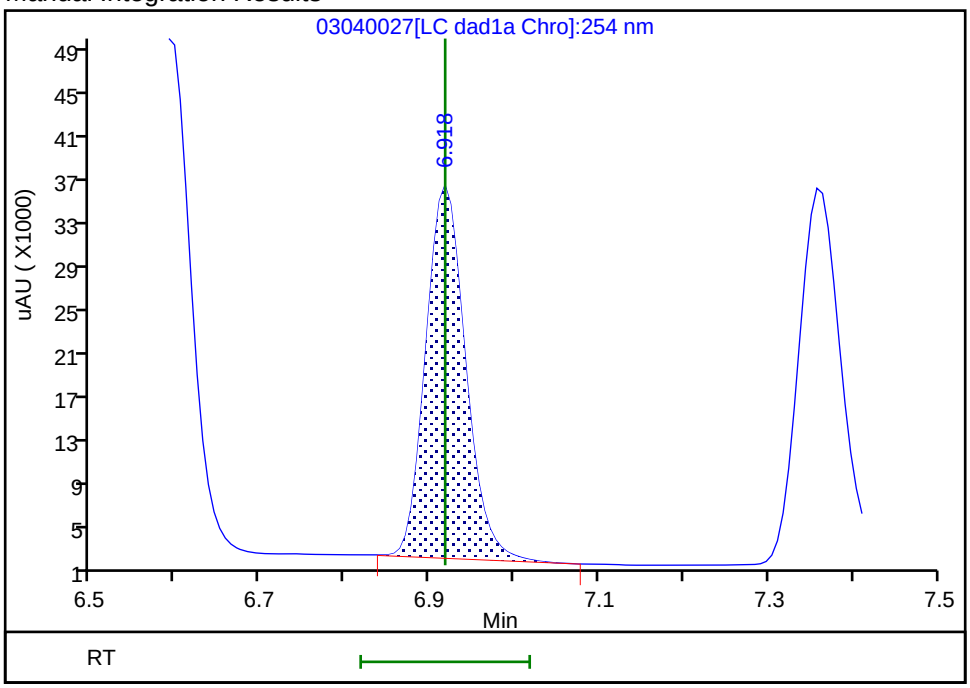
Processing Integration Results

RT: 6.92
Area: 130368
Amount: 0.673274
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 112549
Amount: 0.735959
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:49

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040028.D				
Lims ID:	IC DMT L5				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	04-Mar-2020 22:09:00	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L5				
Misc. Info.:	280-0089779-028				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:24	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:31:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	85174	0.4004	0.3914	M
5 DNX	1	6.917	6.918	-0.001	64550	0.4004	0.4221	M
6 MNX	1	7.357	7.358	-0.001	73151	0.4668	0.4614	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

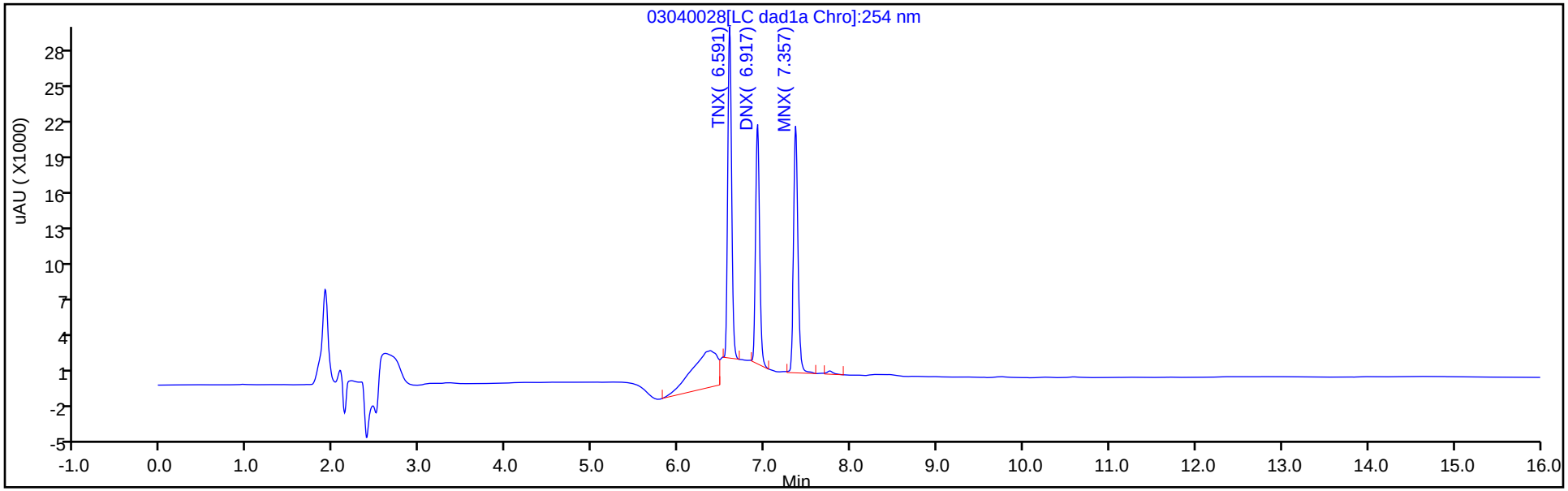
8330 DMT_00005 Amount Added: 20.00 Units: uL

Report Date: 06-Mar-2020 10:25:24 Chrom Revision: 2.3 19-Feb-2020 16:45:46

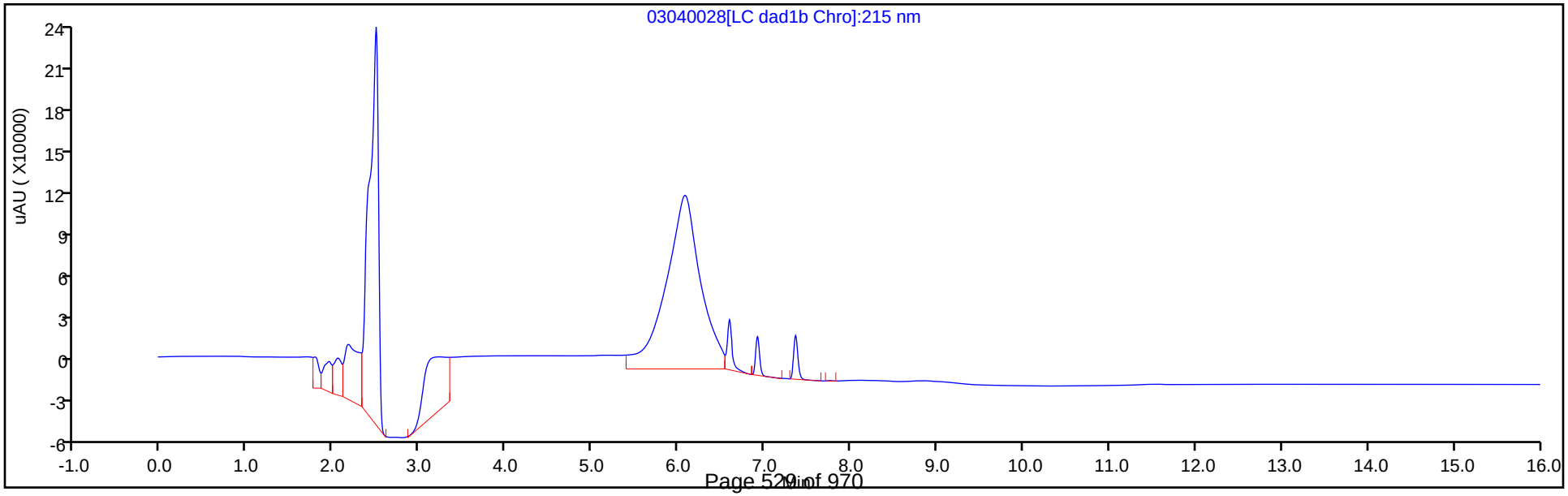
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d				
Injection Date:	04-Mar-2020 22:09:00	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L5			Worklist Smp#:	28
Client ID:					
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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

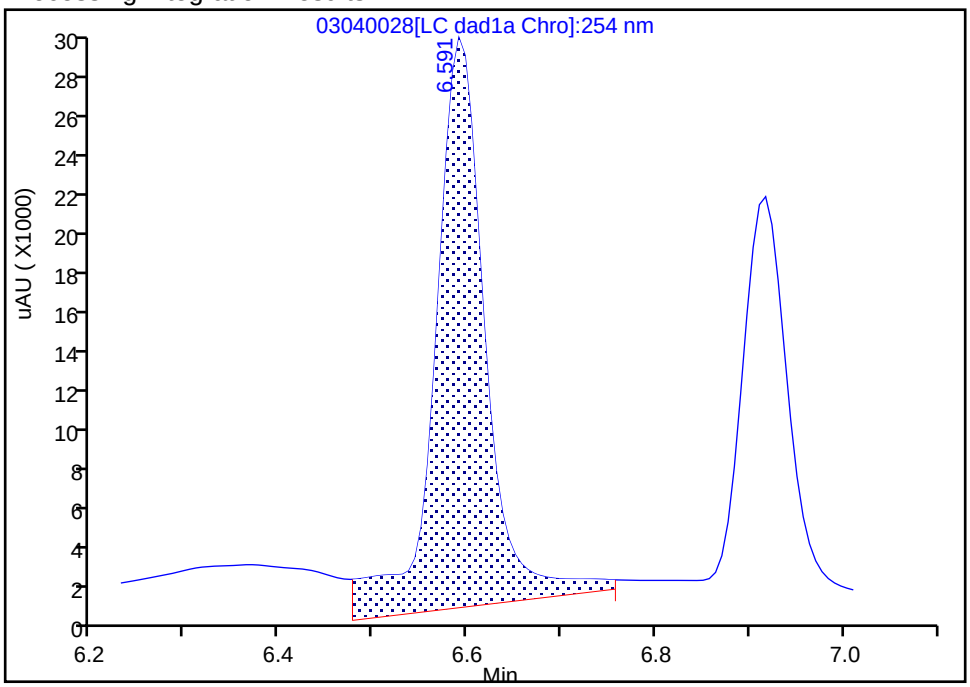
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d				
Injection Date:	04-Mar-2020 22:09:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

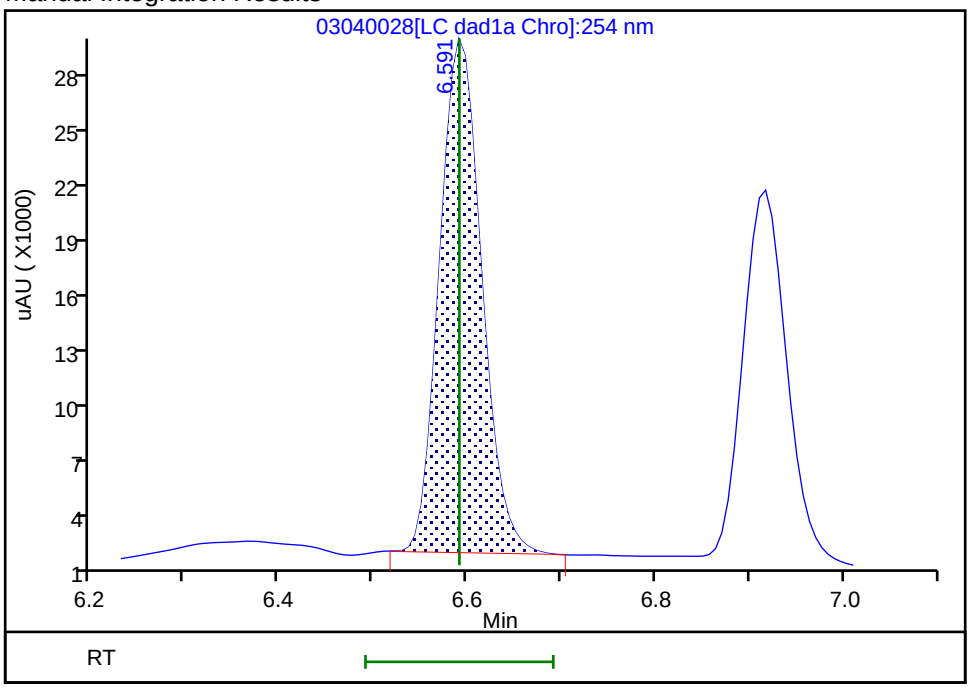
Processing Integration Results

RT: 6.59
Area: 108455
Amount: 0.455381
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 85174
Amount: 0.391409
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:08

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

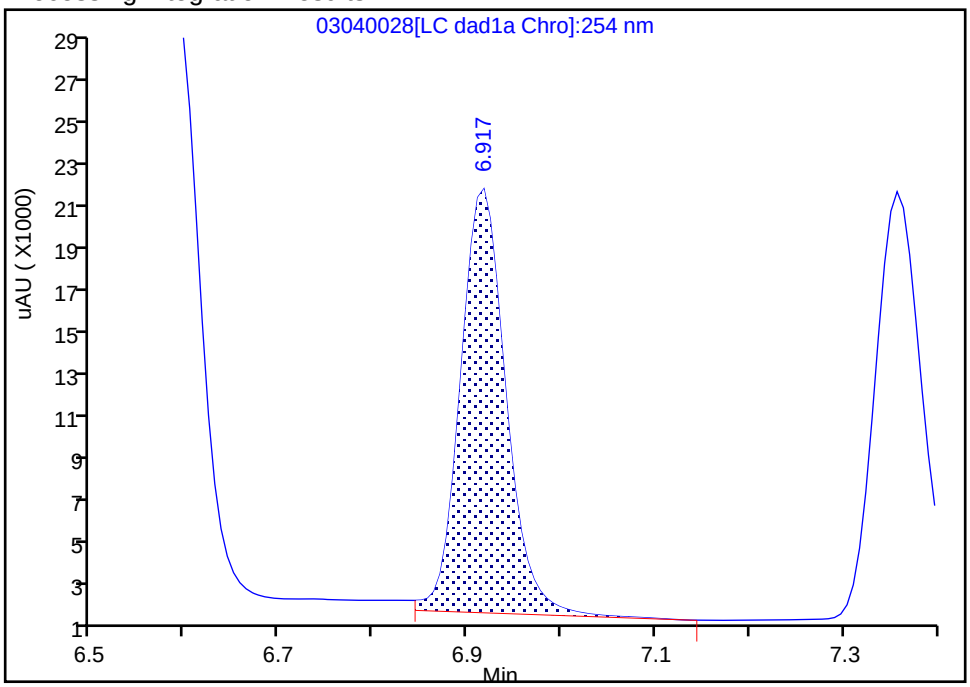
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d				
Injection Date:	04-Mar-2020 22:09:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

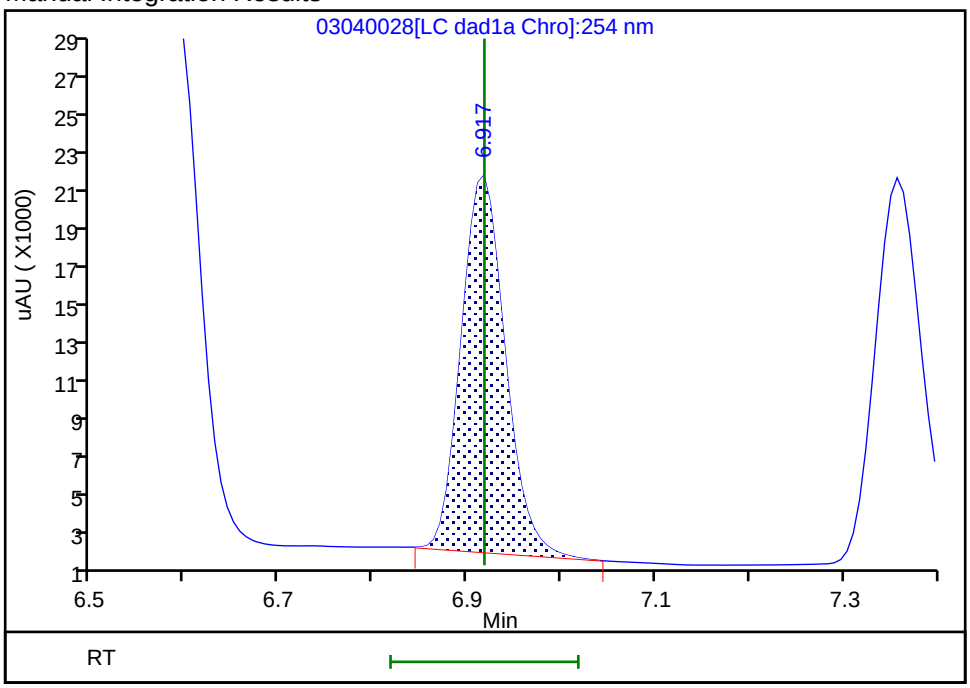
Processing Integration Results

RT: 6.92
Area: 67686
Amount: 0.396160
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 64550
Amount: 0.422093
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:13

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040029.D				
Lims ID:	IC DMT L4				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	04-Mar-2020 22:31:57	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L4				
Misc. Info.:	280-0089779-029				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:24	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:31:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	57932	0.2503	0.2662	M
5 DNX	1	6.918	6.918	0.000	41936	0.2503	0.2742	M
6 MNX	1	7.358	7.358	0.000	46005	0.2918	0.2902	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

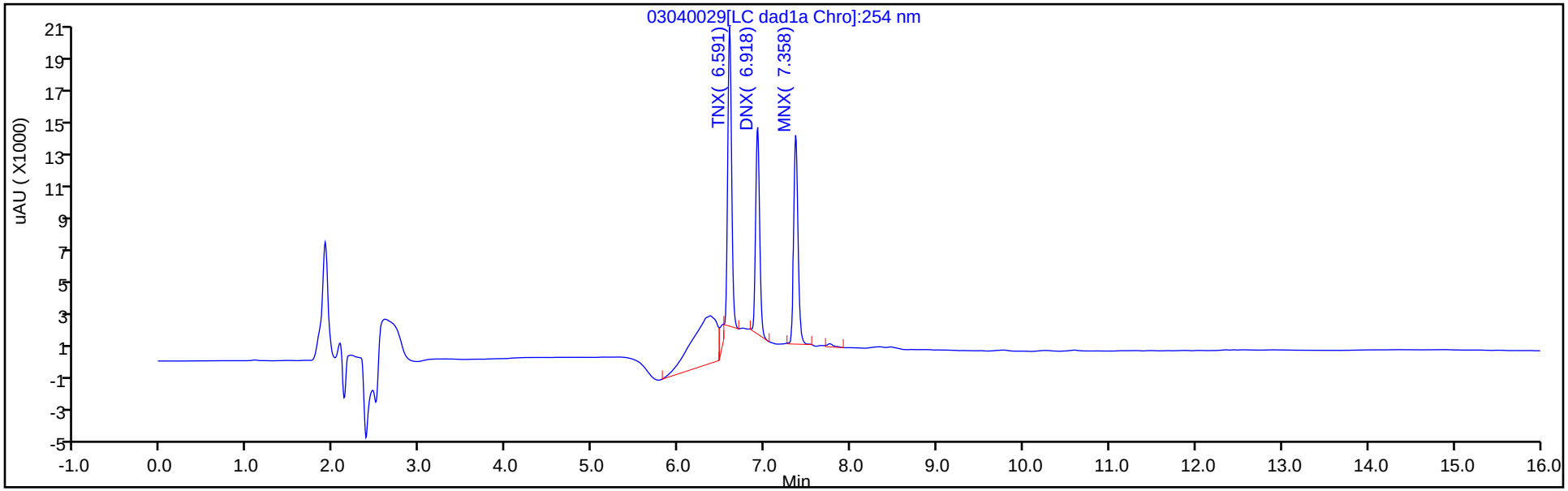
8330 DMT_00005 Amount Added: 12.50 Units: uL

Report Date: 06-Mar-2020 10:25:25 Chrom Revision: 2.3 19-Feb-2020 16:45:46

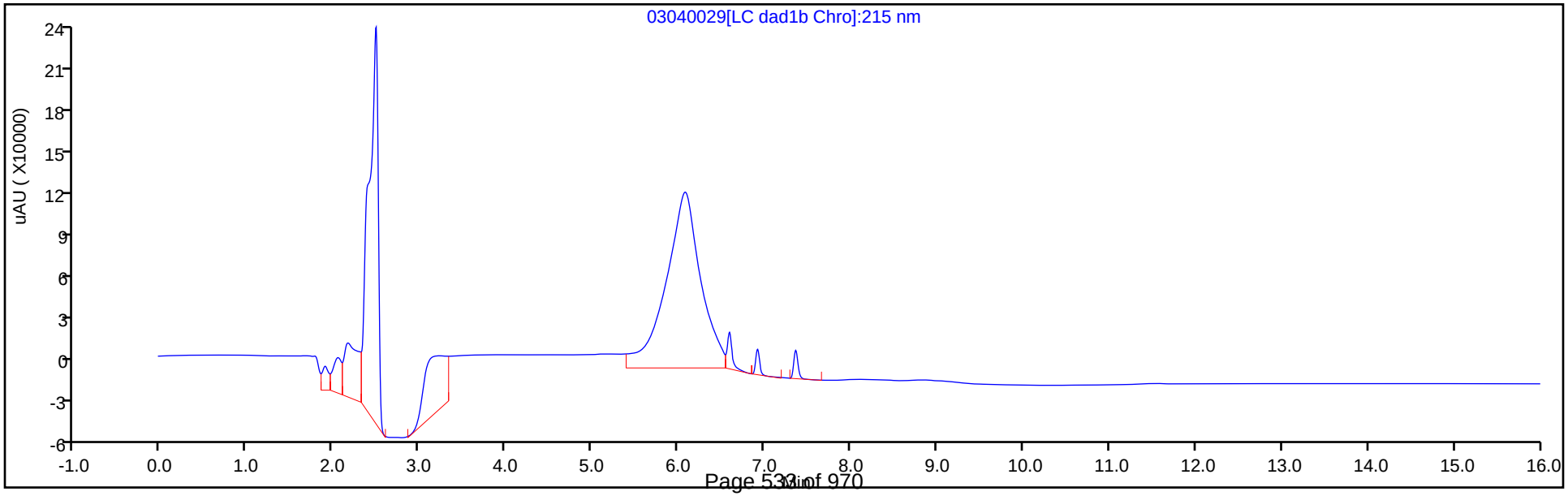
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d				
Injection Date:	04-Mar-2020 22:31:57	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L4			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

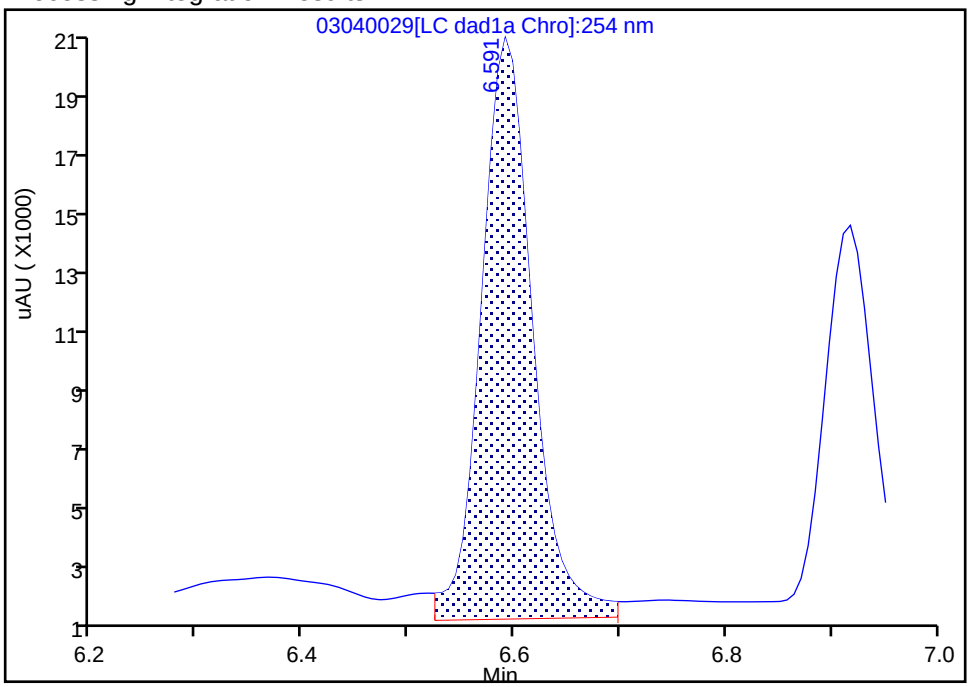
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d				
Injection Date:	04-Mar-2020 22:31:57	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

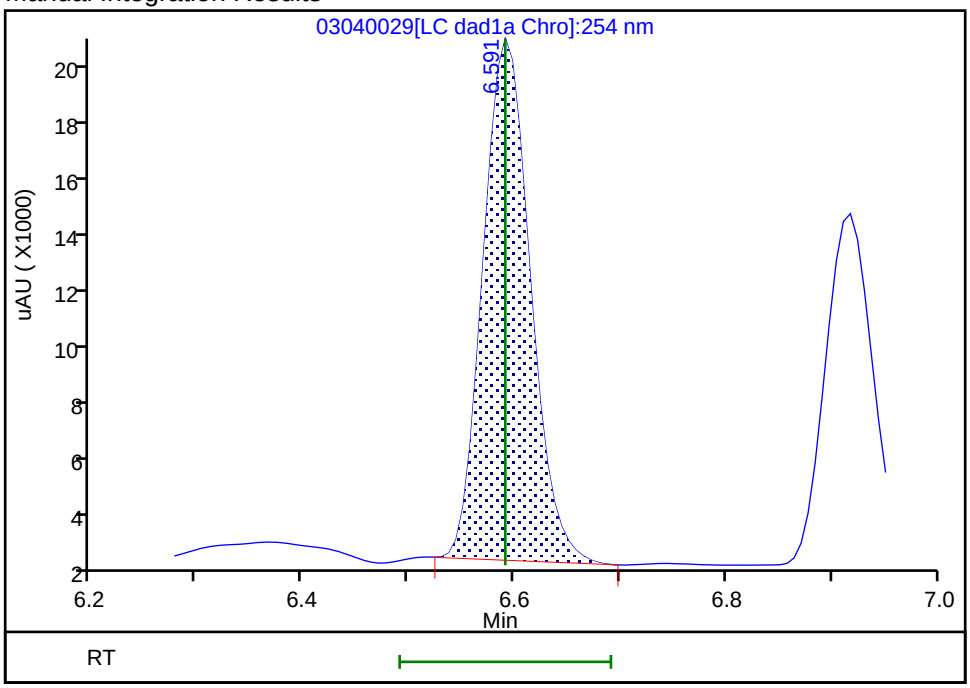
Processing Integration Results

RT: 6.59
Area: 65279
Amount: 0.274722
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 57932
Amount: 0.266221
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:35

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

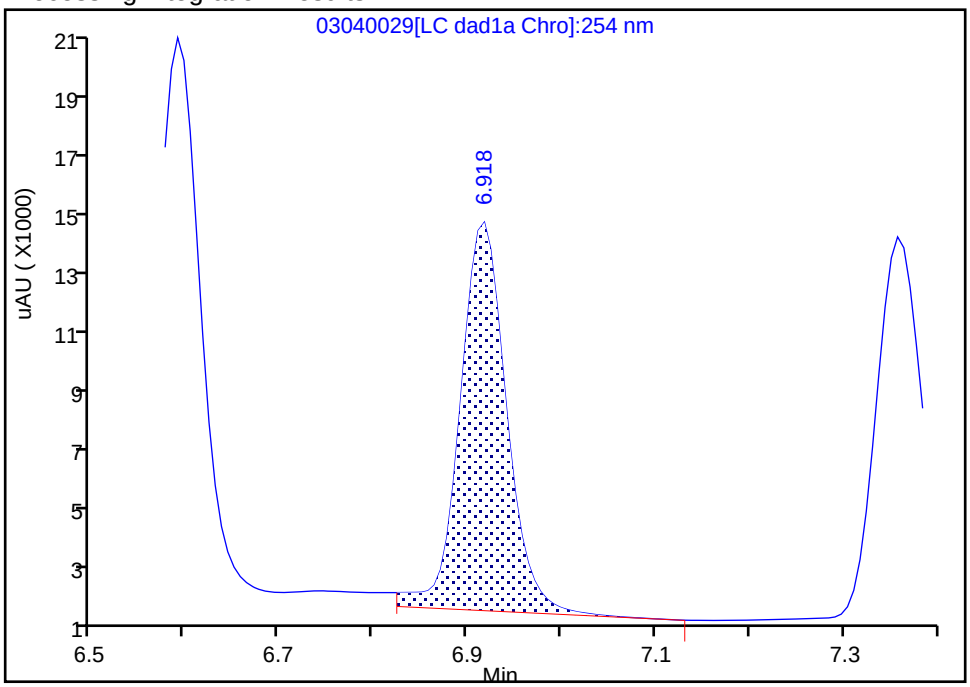
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d				
Injection Date:	04-Mar-2020 22:31:57	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

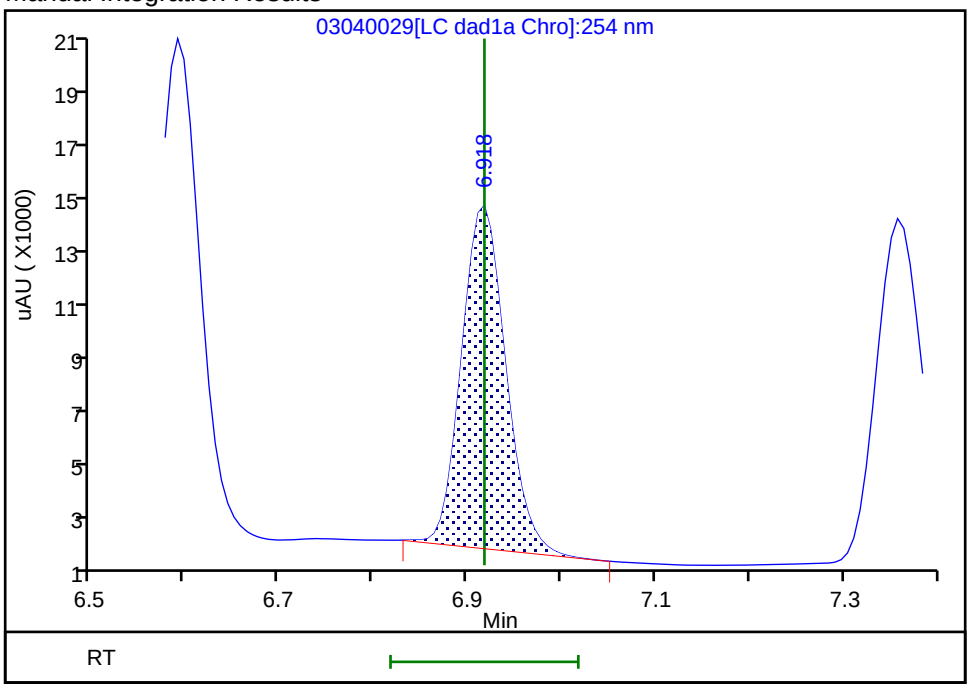
Processing Integration Results

RT: 6.92
Area: 45380
Amount: 0.263025
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 41936
Amount: 0.274220
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:40
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040030.D				
Lims ID:	IC DMT L3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	04-Mar-2020 22:54:53	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L3				
Misc. Info.:	280-0089779-030				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:25	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:32:08

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.589	6.591	-0.002	21002	0.1001	0.0965	M
5 DNX	1	6.915	6.918	-0.003	14937	0.1001	0.0977	M
6 MNX	1	7.355	7.358	-0.003	18233	0.1167	0.1150	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

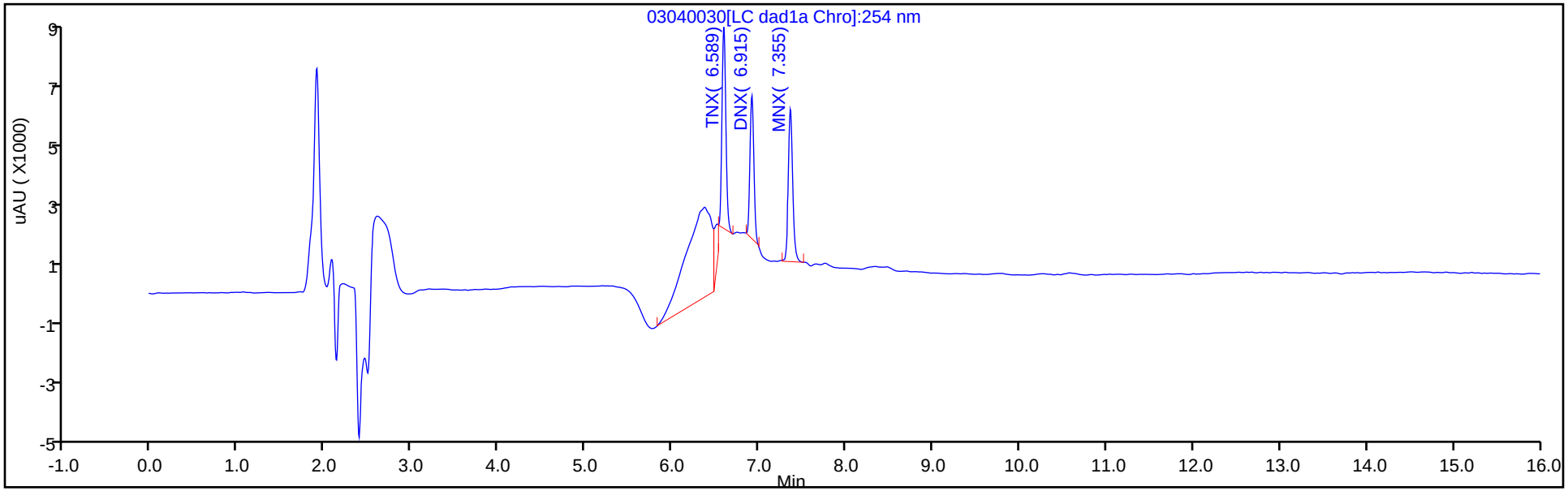
8330 DMT_00005 Amount Added: 5.00 Units: uL

Report Date: 06-Mar-2020 10:25:26 Chrom Revision: 2.3 19-Feb-2020 16:45:46

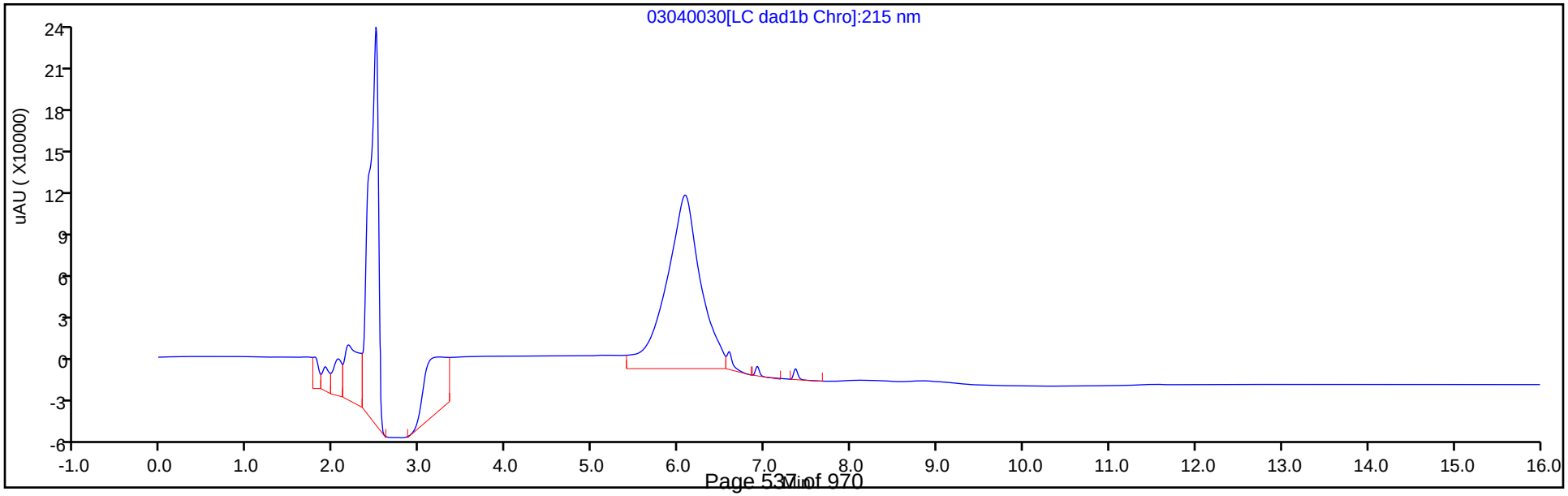
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d				
Injection Date:	04-Mar-2020 22:54:53	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L3			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

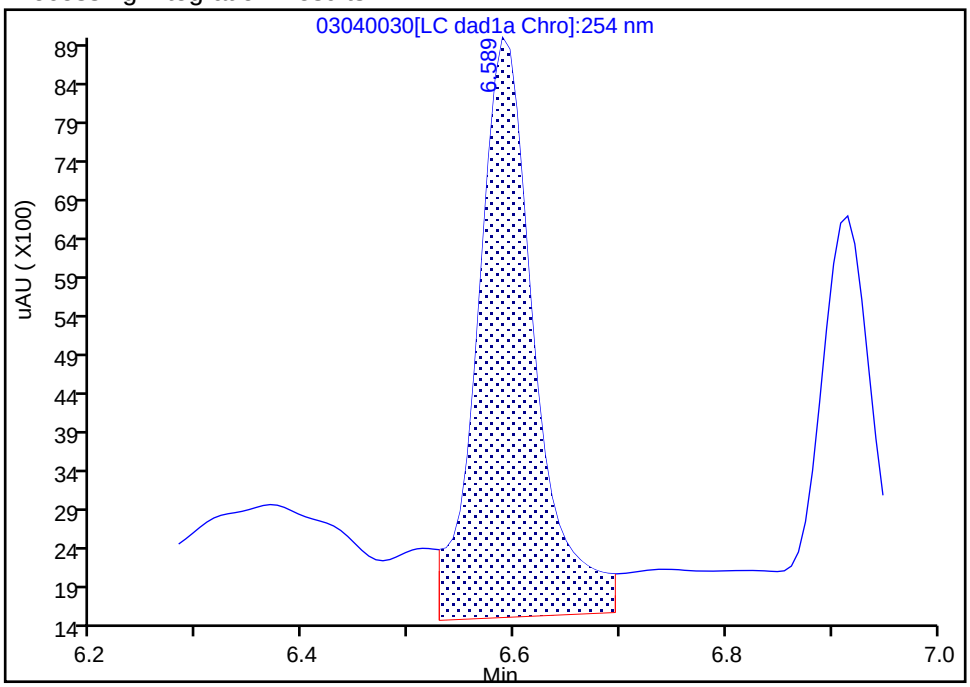
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d				
Injection Date:	04-Mar-2020 22:54:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

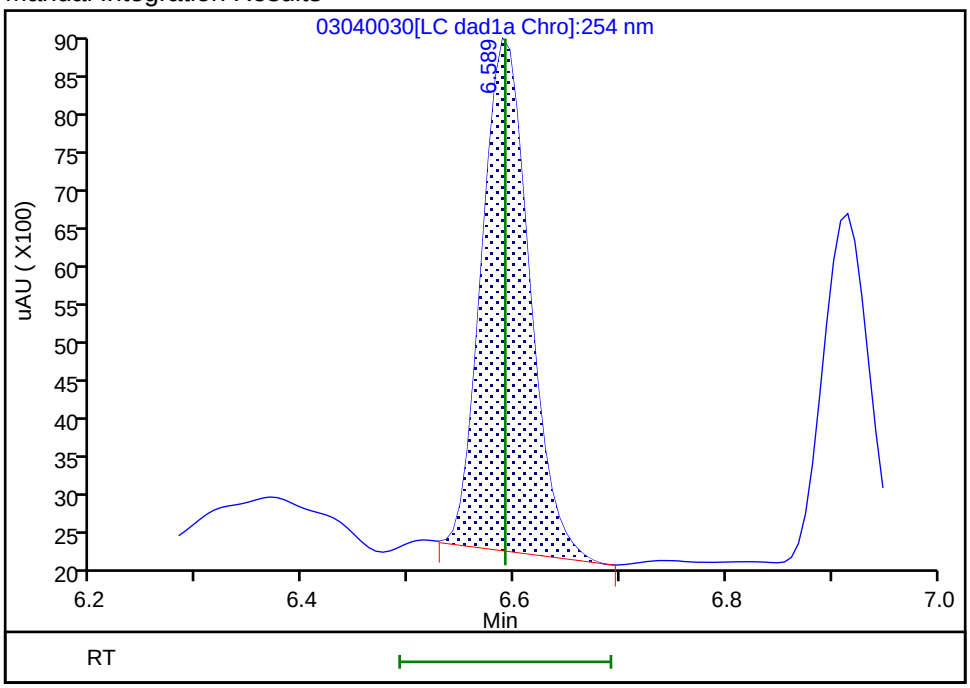
Processing Integration Results

RT: 6.59
Area: 27927
Amount: 0.102862
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 21002
Amount: 0.096513
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

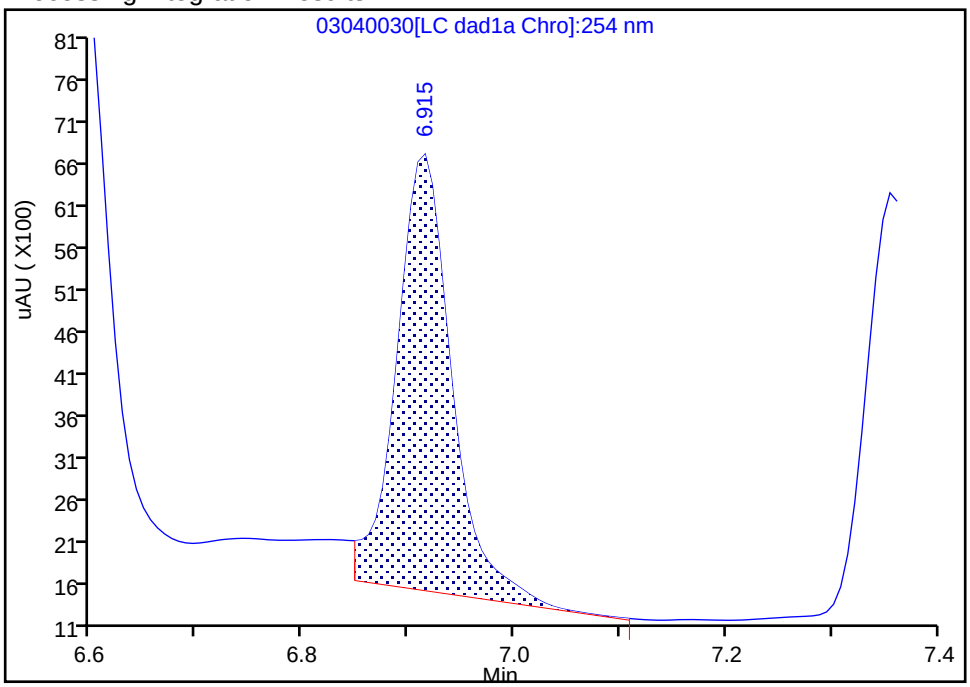
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d				
Injection Date:	04-Mar-2020 22:54:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

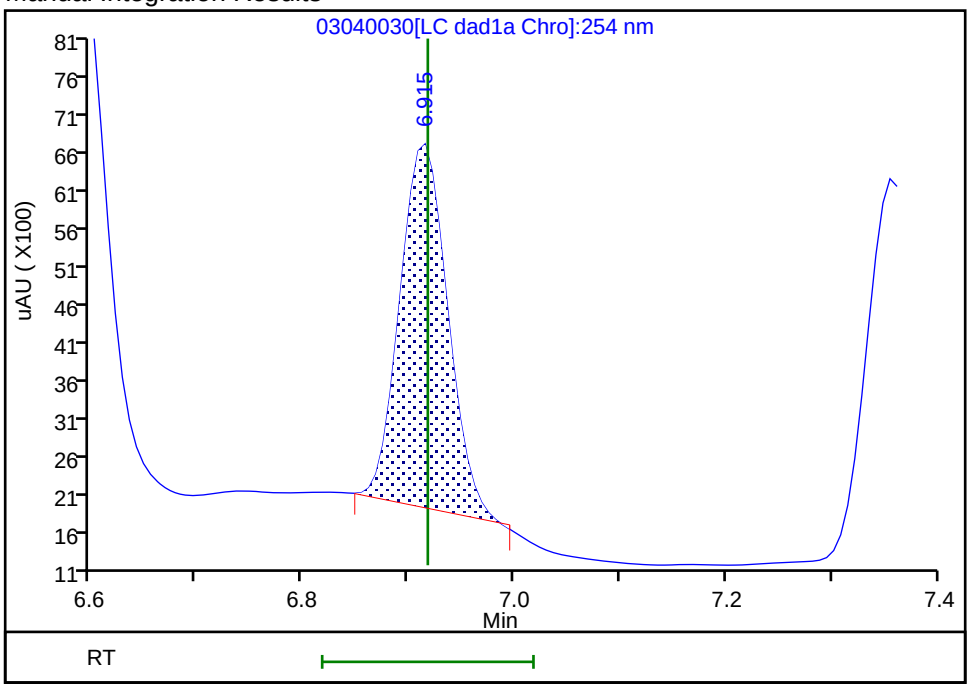
Processing Integration Results

RT: 6.92
Area: 18794
Amount: 0.101797
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 14937
Amount: 0.097673
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:04
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040031.D				
Lims ID:	IC DMT L2				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	04-Mar-2020 23:17:52	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L2				
Misc. Info.:	280-0089779-031				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:26	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:32:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.588	6.591	-0.003	10671	0.0501	0.0490	M
5 DNX	1	6.914	6.918	-0.004	6904	0.0501	0.0451	M
6 MNX	1	7.354	7.358	-0.004	9411	0.0584	0.0594	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

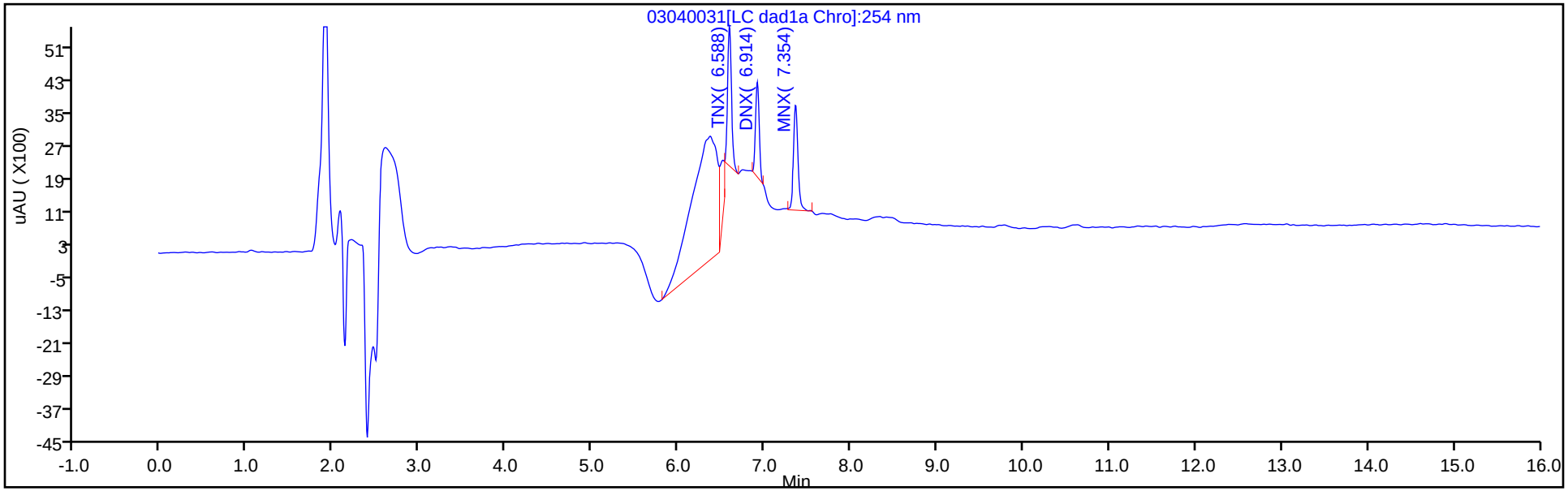
8330 DMT_00005 Amount Added: 2.50 Units: uL

Report Date: 06-Mar-2020 10:25:27 Chrom Revision: 2.3 19-Feb-2020 16:45:46

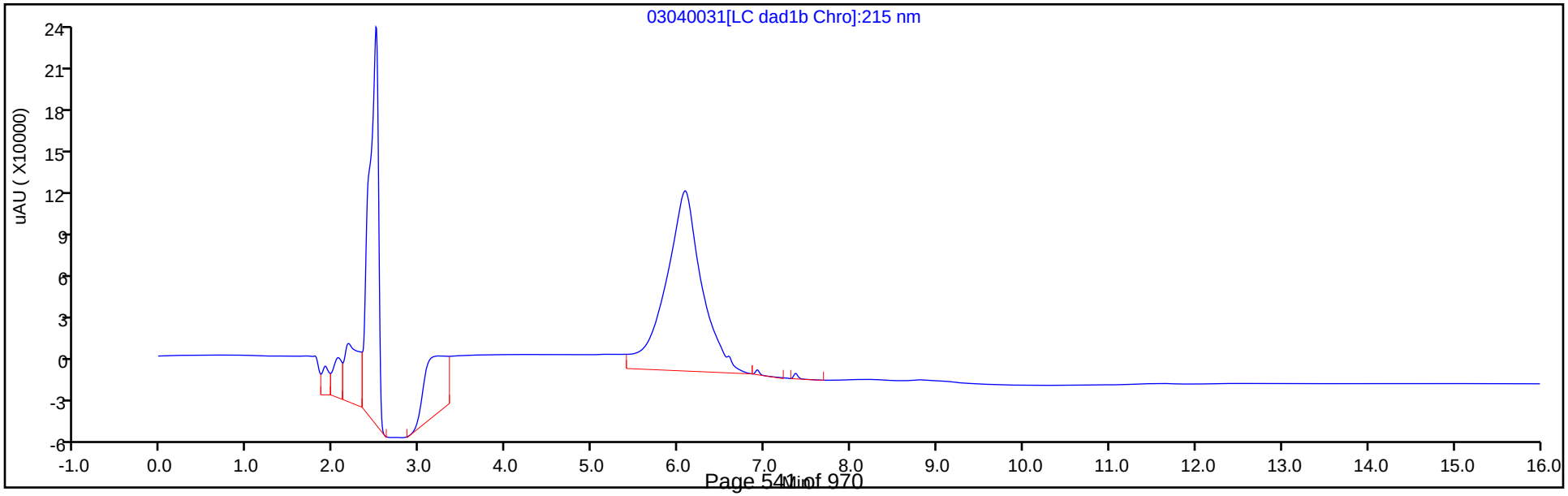
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d				
Injection Date:	04-Mar-2020 23:17:52	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L2			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

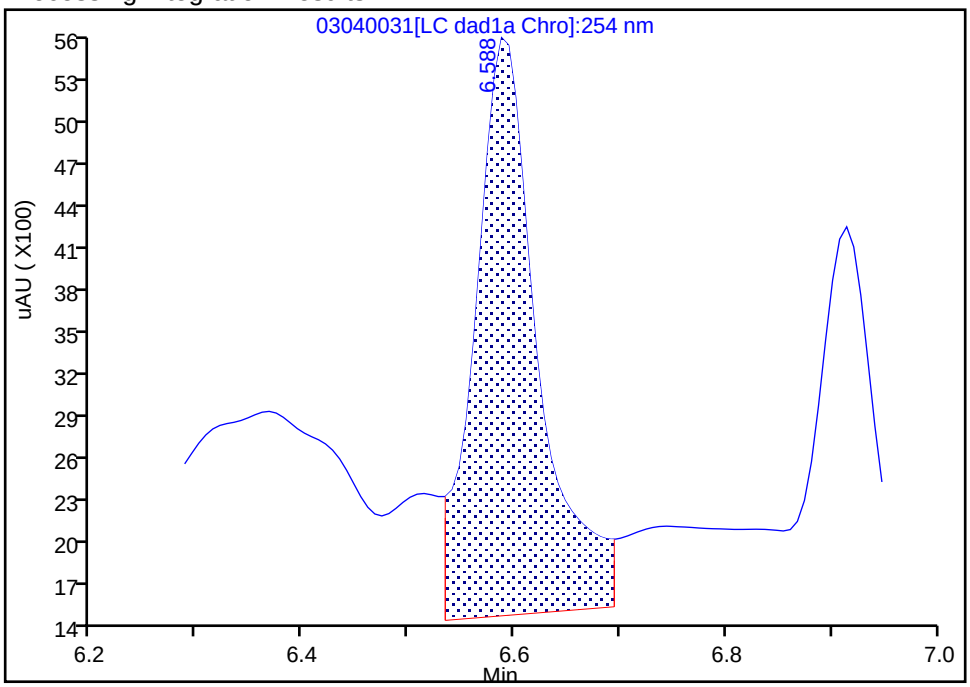
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d				
Injection Date:	04-Mar-2020 23:17:52	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

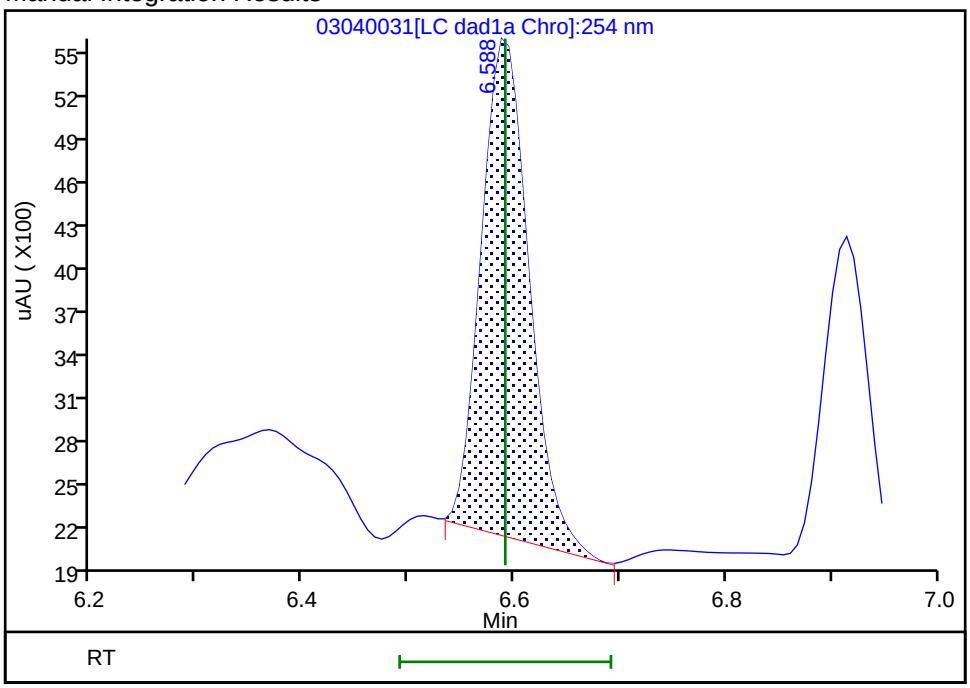
Processing Integration Results

RT: 6.59
Area: 17098
Amount: 0.055915
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 10671
Amount: 0.049038
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

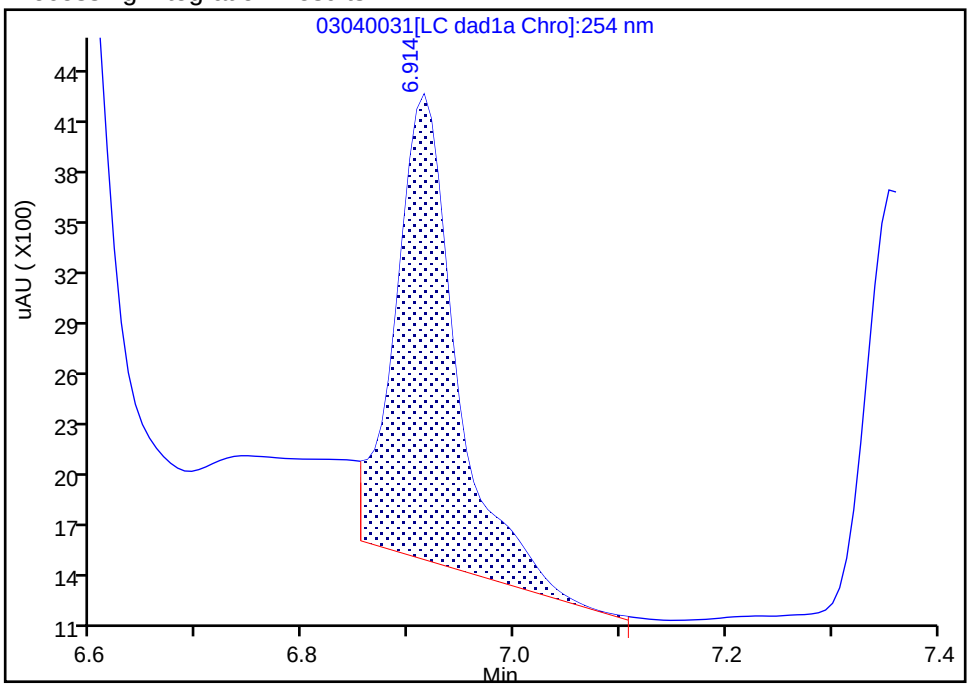
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d				
Injection Date:	04-Mar-2020 23:17:52	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

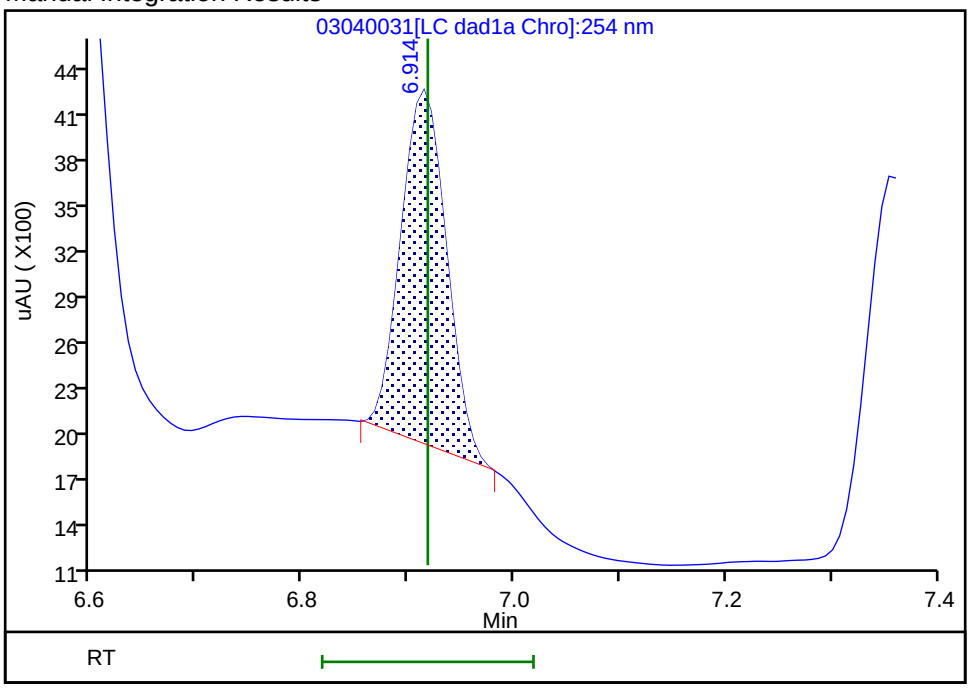
Processing Integration Results

RT: 6.91
Area: 11060
Amount: 0.055514
Amount Units: ug/mL



Manual Integration Results

RT: 6.91
Area: 6904
Amount: 0.045145
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:28

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Lims ID:	IC DMT L1				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	04-Mar-2020 23:40:46	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L1				
Misc. Info.:	280-0089779-032				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:27	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:32:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.592	6.591	0.001	4343	0.0200	0.0200	M
5 DNX	1	6.912	6.918	-0.006	2345	0.0200	0.0153	M
6 MNX	1	7.359	7.358	0.001	4099	0.0233	0.0259	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

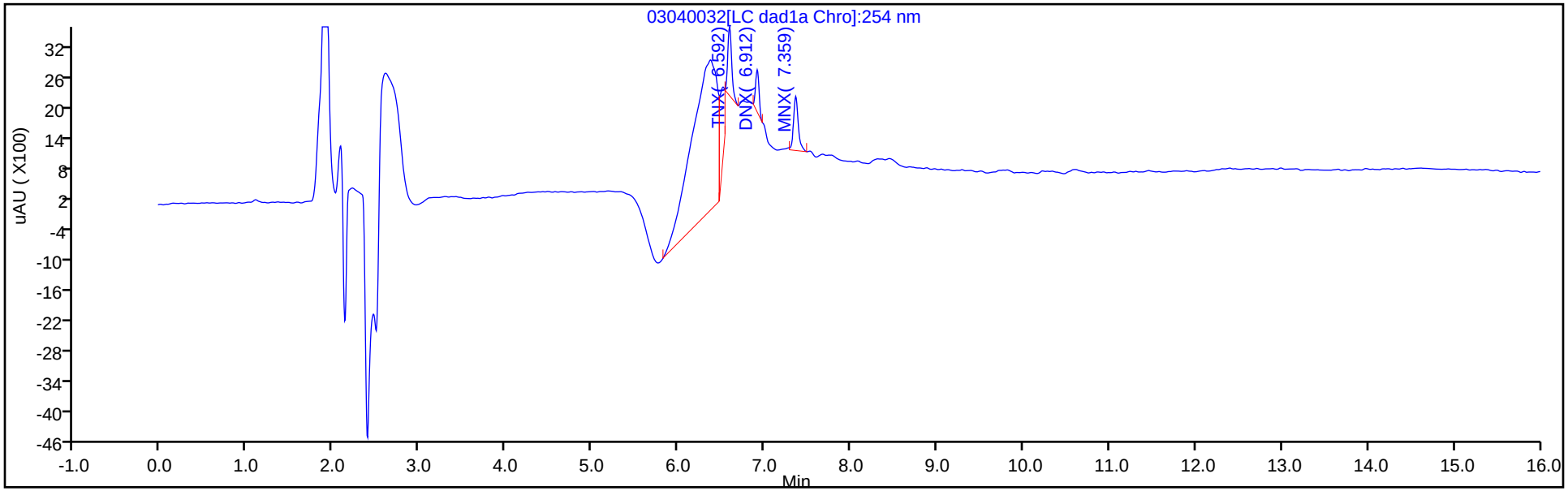
8330 DMT_00005 Amount Added: 1.00 Units: uL

Report Date: 06-Mar-2020 10:25:28 Chrom Revision: 2.3 19-Feb-2020 16:45:46

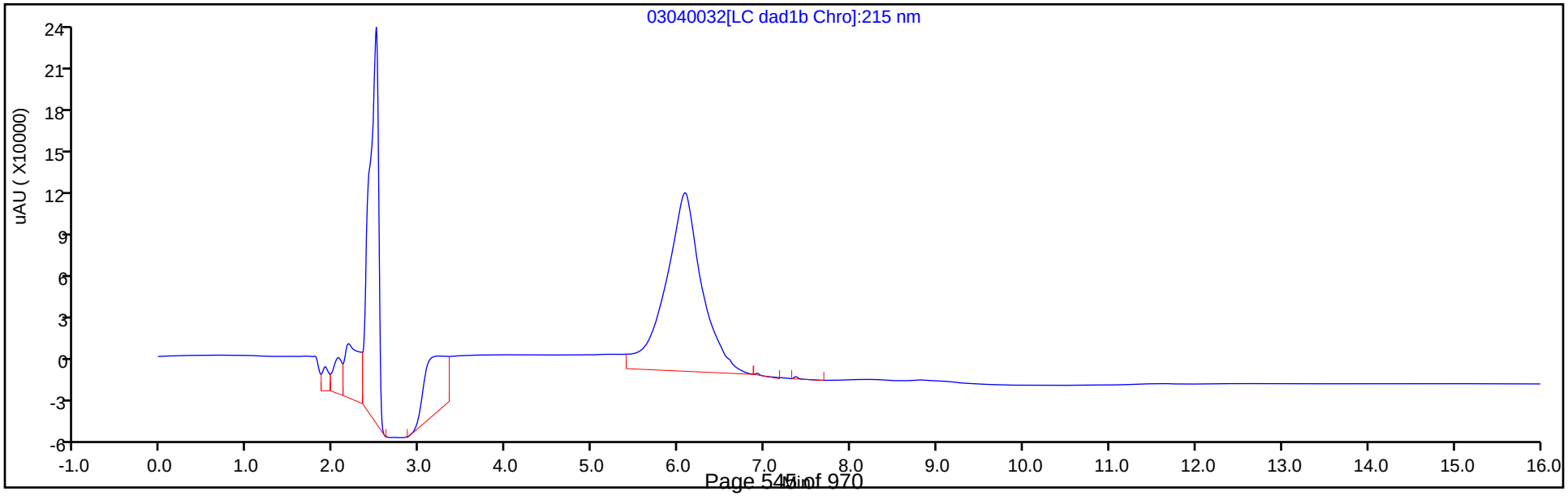
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d				
Injection Date:	04-Mar-2020 23:40:46	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L1			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

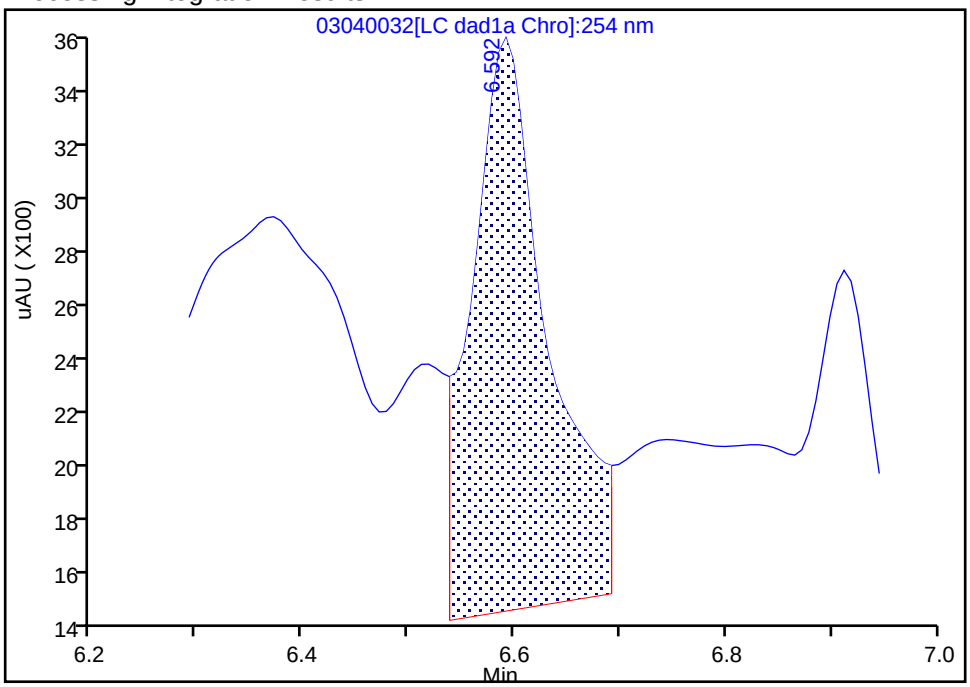
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d				
Injection Date:	04-Mar-2020 23:40:46	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

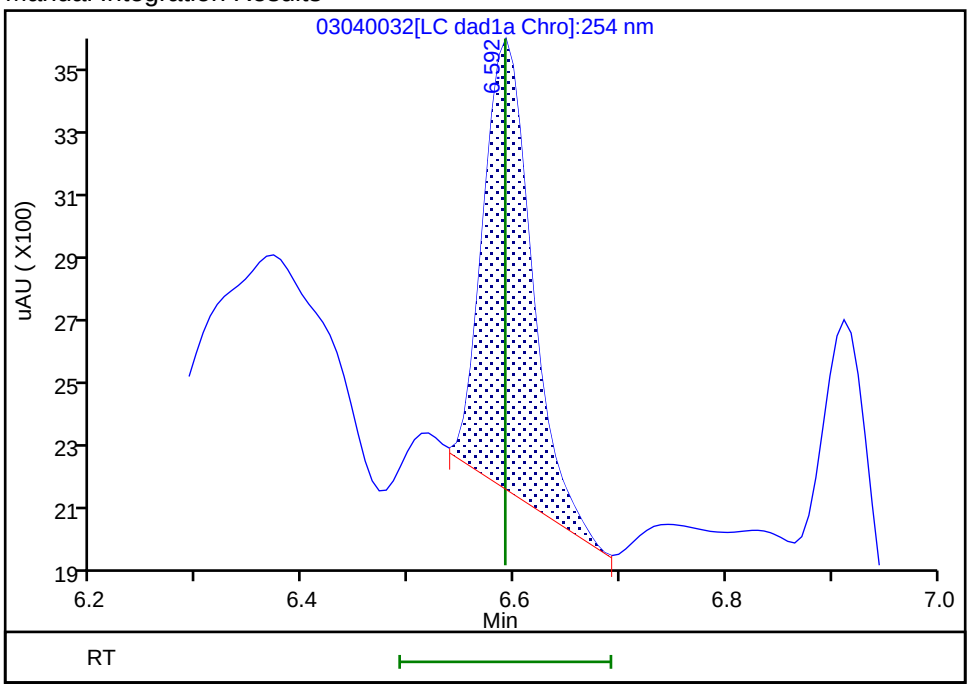
Processing Integration Results

RT: 6.59
Area: 10465
Amount: 0.032149
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 4343
Amount: 0.019958
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:43
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

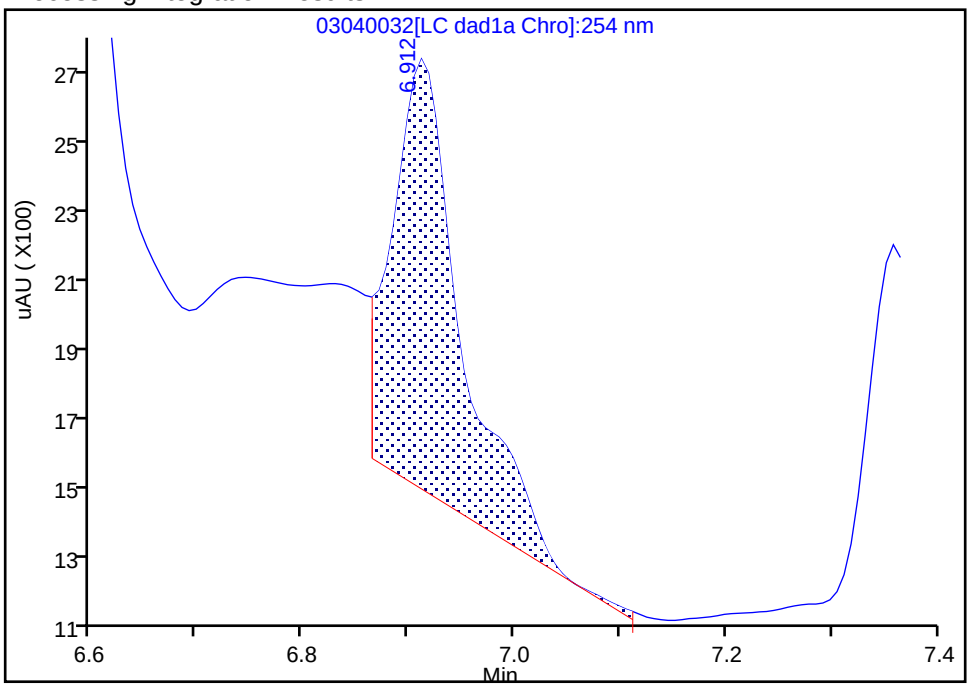
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d				
Injection Date:	04-Mar-2020 23:40:46	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

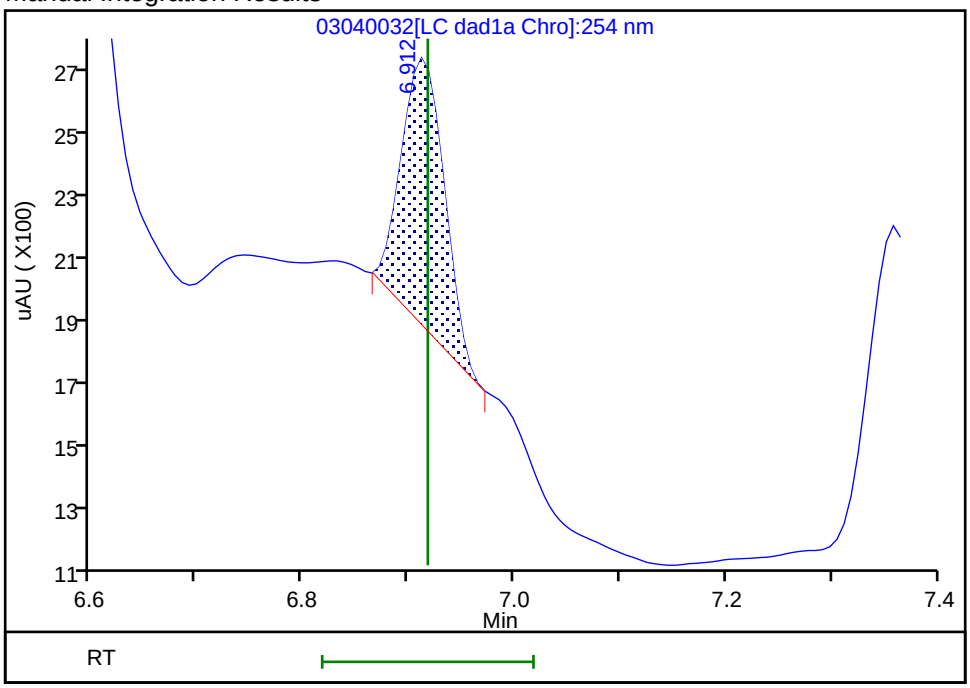
Processing Integration Results

RT: 6.91
Area: 5489
Amount: 0.028357
Amount Units: ug/mL



Manual Integration Results

RT: 6.91
Area: 2345
Amount: 0.015334
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:46

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.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		6.689	6.687	6.689	6.688	6.687	6.687	6.687	6.678		6.539 - 6.839	6.687
RDX		7.755	7.753	7.749	7.754	7.754	7.754	7.754	7.745		7.599 - 7.899	7.752
Picric acid	8.082	8.082	8.080	8.076	8.068	8.054	8.041	8.034	7.978		7.926 - 8.226	8.055
1,3,5-Trinitrobenzene	8.888	8.889	8.887	8.883	8.888	8.887	8.881	8.887	8.878		8.733 - 9.033	8.885
1,3-Dinitrobenzene	9.535	9.535	9.533	9.529	9.534	9.527	9.527	9.534	9.525		9.379 - 9.679	9.531
Nitrobenzene	9.915	9.922	9.920	9.916	9.921	9.914	9.914	9.914	9.911		9.766 - 10.066	9.916
Tetryl	10.221	10.215	10.220	10.216	10.221	10.221	10.214	10.221	10.218		10.066 - 10.366	10.219
Nitroglycerin	10.735	10.735	10.733	10.729	10.734	10.734	10.727	10.727	10.725		10.579 - 10.879	10.731
2,4,6-Trinitrotoluene	11.195	11.189	11.186	11.183	11.194	11.187	11.181	11.187	11.185		11.083 - 11.283	11.187
4-Amino-2,6-dinitrotoluene	11.341	11.342	11.340	11.336	11.347	11.341	11.334	11.334	11.331		11.236 - 11.436	11.338
2-Amino-4,6-dinitrotoluene	11.635	11.629	11.633	11.623	11.634	11.627	11.621	11.621	11.618		11.523 - 11.723	11.627
2,6-Dinitrotoluene	11.795	11.789	11.793	11.783	11.794	11.787	11.781	11.787	11.785		11.683 - 11.883	11.788
2,4-Dinitrotoluene	11.995	11.989	11.986	11.983	11.987	11.987	11.981	11.981	11.978		11.883 - 12.083	11.985
2-Nitrotoluene	12.828	12.822	12.833	12.823	12.827	12.827	12.814	12.821	12.818		12.673 - 12.973	12.824
4-Nitrotoluene	13.268	13.269	13.260	13.256	13.261	13.261	13.254	13.254	13.251		13.106 - 13.406	13.259
3-Nitrotoluene	13.855	13.849	13.853	13.849	13.854	13.854	13.841	13.847	13.845		13.699 - 13.999	13.850
PETN		+++++	14.946	14.936	14.941	14.941	14.927	14.941	14.945		14.786 - 15.086	14.940
1,2-Dinitrobenzene	8.715	8.709	8.713	8.709	8.714	8.714	8.714	8.714	8.705		8.559 - 8.859	8.712

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.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	91008 92308	61440 91473	86460 91820	90800 92351	Ave		85962.1667				12.3		20.0			
RDX	112944 111897	112680 113215	121400 111841	117010 112730	Ave		116613.070				6.7		20.0			
Picric acid	86560 86468 88192	70960 86698	86100 86851	86470 87876	Ave		85130.5476				6.3		20.0			
1,3,5-Trinitrobenzene	192016 239677 242392	193413 242552	239242 242052	236826 244610	Ave		230308.873				9.3		20.0			
1,3-Dinitrobenzene	254770 321218 326628	250299 322290	322275 320369	318333 323988	Ave		306685.717				10.0		20.0			
Nitrobenzene	173386 209084 210856	165538 209462	208865 209202	207759 209472	Ave		200402.631				8.8		20.0			
Tetryl	132854 188850 191963	139401 190152	182355 189763	184900 193048	Ave		177031.954				13.3		20.0			
Nitroglycerin	54320 73708 72647	54804 73682	66982 72630	71269 73160	Ave		68133.4679				11.7		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.: 280-137006-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

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	143984 216888 217948	171594 215762	214622 218499	217430 219552	Ave		204030.971				13.3		20.0			
4-Amino-2,6-dinitrotoluene	78402 173379 171541	137582 174883	169630 168893	172757 173075	Lin2	-1163.6365	178372.945							0.9980		0.9900
2-Amino-4,6-dinitrotoluene	169163 213685 217128	161195 213177	209223 213799	209592 218387	Ave		202816.698				10.7		20.0			
2,6-Dinitrotoluene	120159 159558 155029	119004 160244	157012 158940	158576 156549	Ave		149452.337				11.4		20.0			
2,4-Dinitrotoluene	250359 318972 321972	249960 319980	313566 317703	316753 322992	Ave		303584.095				10.0		20.0			
2-Nitrotoluene	129200 138416 134514	122720 134575	151060 133944	137330 133699	Ave		135050.876				5.6		20.0			
4-Nitrotoluene	86228 119058 116822	100160 116285	128064 116245	117874 116311	Ave		113005.083				10.9		20.0			
3-Nitrotoluene	112128 149894 149503	125035 150095	155005 148550	148232 148816	Ave		143028.635				10.0		20.0			
PETN	 80472 82059	+++++ 82077	74814 81281	78947 82446	Ave		78604.5748				6.9		20.0			
1,2-Dinitrobenzene	122480 142220 143478	119840 142918	144780 142683	141270 144242	Ave		138212.217				7.1		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.: 280-137006-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HMX	Ave	36589	1536 64274	4323 92351	9080 230770	22752	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	45286	2817 78289	6070 112730	11701 279743	28236	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	1082 34679	1774 60796	4305 87876	8647 220480	21617	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
1,3,5-Trinitrobenzene	Ave	2405 97215	4845 169775	11986 245099	23730 607193	60039	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Ave	3191 129174	6270 224707	16146 324636	31897 818202	80465	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitrobenzene	Ave	2176 84120	4155 147027	10485 210310	20859 529249	52480	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
Tetryl	Ave	1664 76213	3492 133100	9136 193434	18527 480867	47307	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Ave	6790 294728	13701 508407	33491 731600	71269 1816166	184270	0.125 4.00	0.250 7.00	0.500 10.0	1.00 25.0	2.50
2,4,6-Trinitrotoluene	Ave	1807 86650	4307 153561	10774 220430	21830 547050	54439	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Lin2	981 70023	3443 118343	8490 173248	17293 429281	43388	0.0125 0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	2123 85612	4046 150258	10503 219261	21043 544991	53635	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Ave	1508 64354	2987 111703	7882 157175	15921 389124	40049	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,4-Dinitrotoluene	Ave	3142 128504	6274 223282	15741 324284	31802 808149	80062	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2-Nitrotoluene	Ave	1615 53830	3068 93761	7553 133699	13733 336284	34604	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

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
4-Nitrotoluene	Ave	1080 46607	2509 81534	6416 116544	11811 292638	29824	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
3-Nitrotoluene	Ave	1403 60098	3129 104089	7758 148965	14838 374131	37511	0.0125 0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
PETN	Ave	 328307	+++++ 568970	37407 824461	78947 2051483	201180	 4.00	+++++ 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Ave	1531 57167	2996 99878	7239 144242	14127 358694	35555	0.0125 0.400	0.0250 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:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180007.D				
Lims ID:	IC MAIN L9				
Client ID:					
Sample Type:	IC	Calib Level:	9		
Inject. Date:	18-Mar-2020 11:35:53	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC MAIN L9				
Misc. Info.:	280-0090150-007				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub9				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	26-Mar-2020 15:45:39	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				
First Level Reviewer: beckerc		Date:	19-Mar-2020 08:41:44		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.678	6.689	-0.011	230770	2.50	2.68	M
7 RDX	1	7.745	7.749	-0.004	279743	2.50	2.40	
8 2,4,6-Trinitrophenol	1	7.978	8.076	-0.098	220480	2.50	2.59	
$ 9 1,2-Dinitrobenzene	1	8.705	8.709	-0.004	358694	2.50	2.60	
10 1,3,5-Trinitrobenzene	1	8.878	8.883	-0.005	607193	2.51	2.64	
11 1,3-Dinitrobenzene	1	9.525	9.529	-0.004	818202	2.51	2.67	M
12 Nitrobenzene	1	9.911	9.916	-0.005	529249	2.51	2.64	
14 Tetryl	1	10.218	10.216	0.002	480867	2.51	2.72	
15 Nitroglycerin	2	10.725	10.729	-0.004	1816166	25.0	26.7	
16 2,4,6-Trinitrotoluene	1	11.185	11.183	0.002	547050	2.51	2.68	
17 4-Amino-2,6-dinitrotoluene	1	11.331	11.336	-0.005	429281	2.50	2.41	
18 2-Amino-4,6-dinitrotoluene	1	11.618	11.623	-0.005	544991	2.51	2.69	
19 2,6-Dinitrotoluene	1	11.785	11.783	0.002	389124	2.51	2.60	
20 2,4-Dinitrotoluene	1	11.978	11.983	-0.005	808149	2.51	2.66	
21 o-Nitrotoluene	1	12.818	12.823	-0.005	336284	2.50	2.49	
22 p-Nitrotoluene	1	13.251	13.256	-0.005	292638	2.51	2.59	
23 m-Nitrotoluene	1	13.845	13.849	-0.004	374131	2.50	2.62	
24 PETN	2	14.945	14.936	0.009	2051483	25.0	26.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

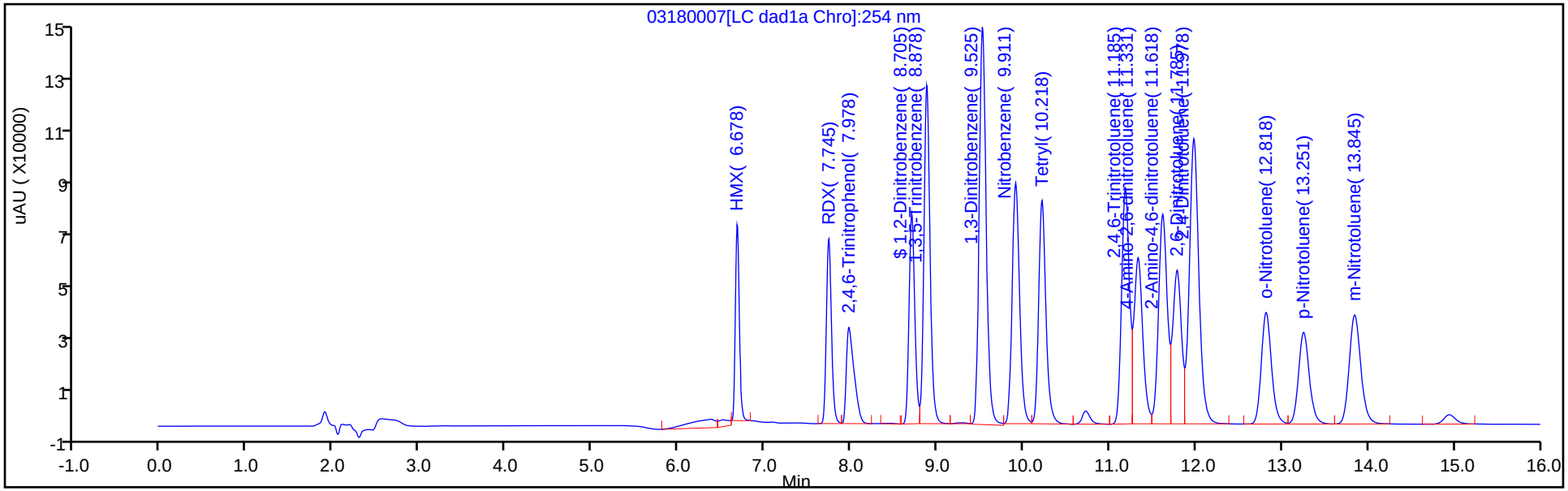
8330IntermStk_00061 Amount Added: 250.00 Units: uL

Report Date: 26-Mar-2020 15:45:39 Chrom Revision: 2.3 11-Mar-2020 18:53:20

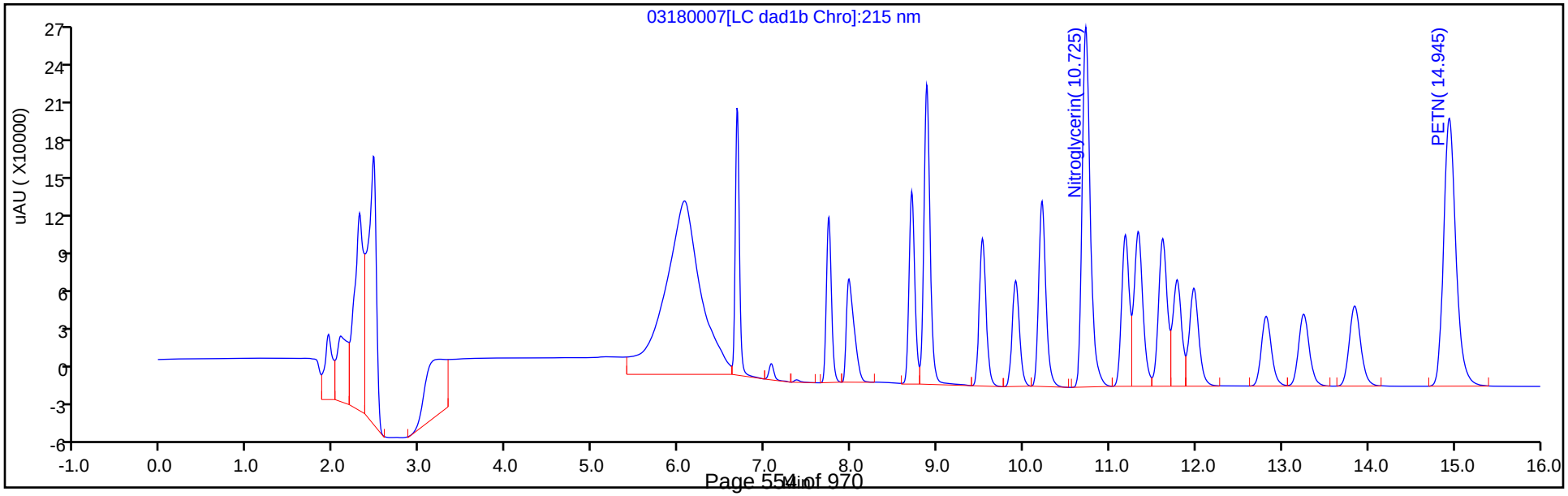
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d				
Injection Date:	18-Mar-2020 11:35:53	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L9			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

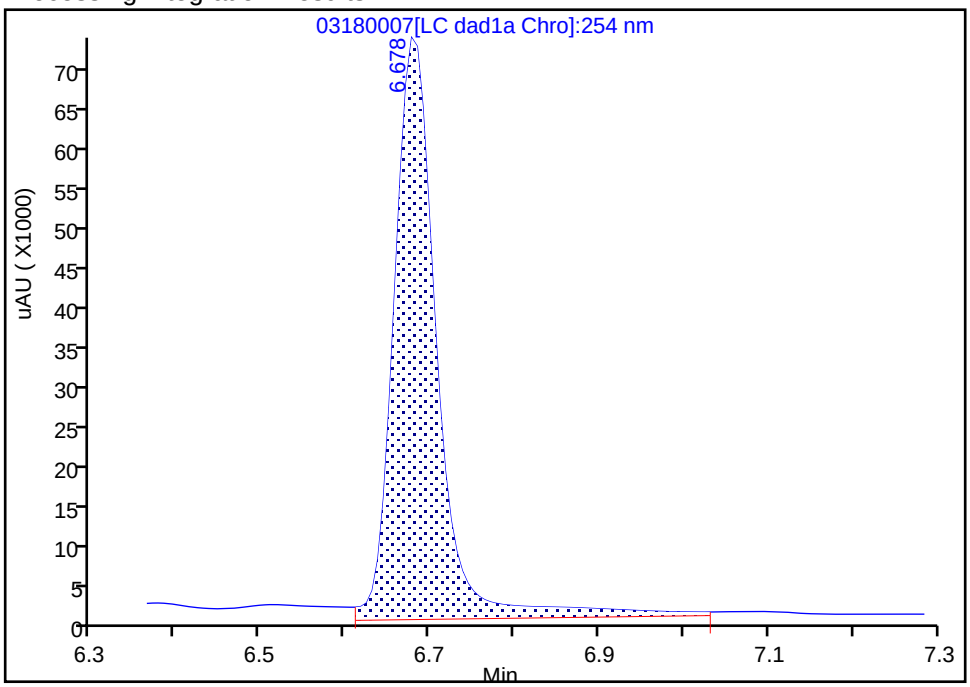
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d				
Injection Date:	18-Mar-2020 11:35:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

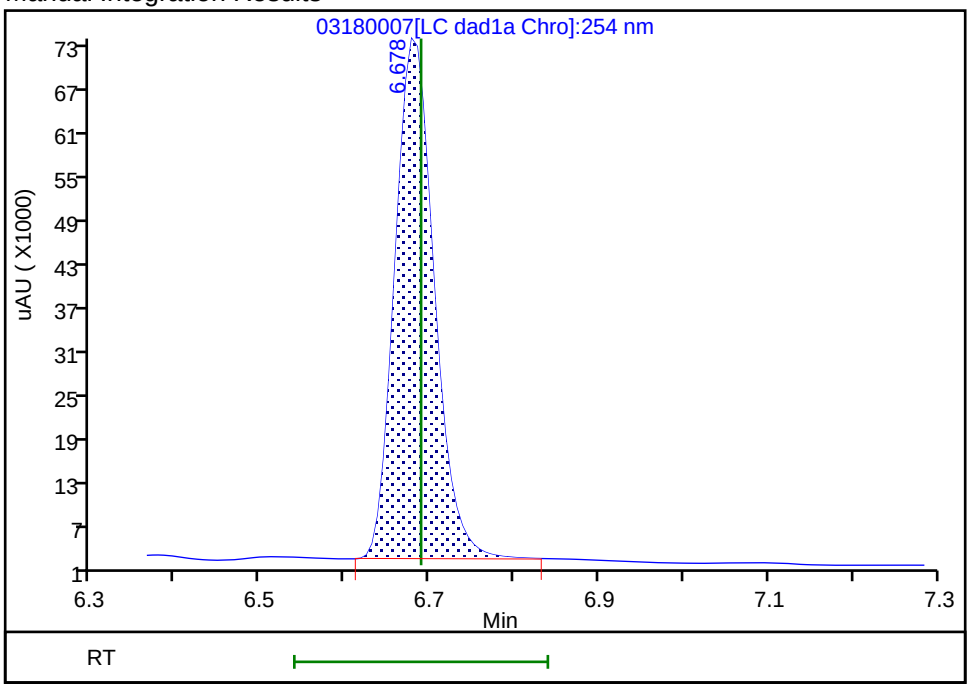
Processing Integration Results

RT: 6.68
Area: 261160
Amount: 2.488946
Amount Units: ug/mL



Manual Integration Results

RT: 6.68
Area: 230770
Amount: 2.684553
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:41:25

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver

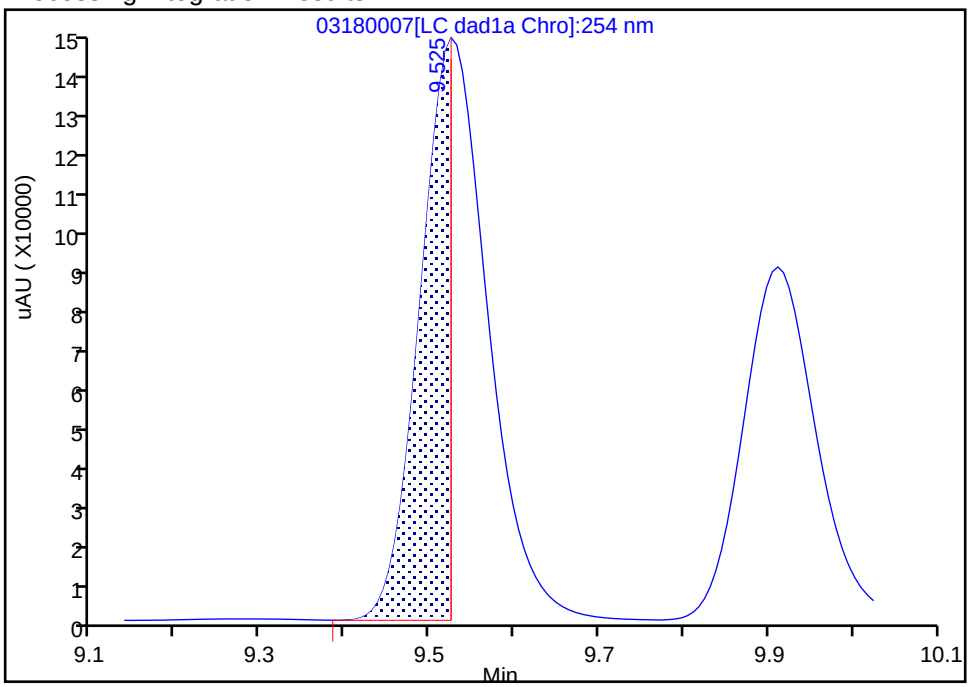
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d				
Injection Date:	18-Mar-2020 11:35:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

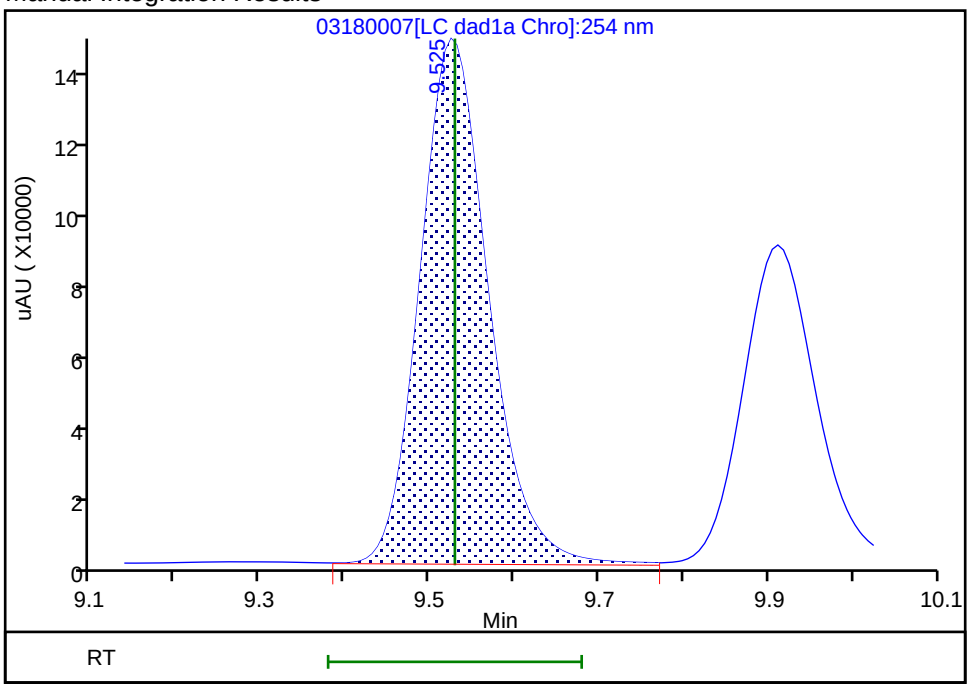
Processing Integration Results

RT: 9.52
Area: 362918
Amount: 1.345398
Amount Units: ug/mL



Manual Integration Results

RT: 9.52
Area: 818202
Amount: 2.667884
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:41:39
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180008.D
Lims ID: IC MAIN L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 18-Mar-2020 11:58:50 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L8
Misc. Info.: 280-0090150-008
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:40 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:42:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	92351	1.00	1.07	M
7 RDX	1	7.754	7.749	0.005	112730	1.00	0.9667	
8 2,4,6-Trinitrophenol	1	8.034	8.076	-0.042	87876	1.00	1.03	
$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	144242	1.00	1.04	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	245099	1.00	1.06	
11 1,3-Dinitrobenzene	1	9.534	9.529	0.005	324636	1.00	1.06	
12 Nitrobenzene	1	9.914	9.916	-0.002	210310	1.00	1.05	
14 Tetryl	1	10.221	10.216	0.005	193434	1.00	1.09	
15 Nitroglycerin	2	10.727	10.729	-0.002	731600	10.0	10.7	
16 2,4,6-Trinitrotoluene	1	11.187	11.183	0.004	220430	1.00	1.08	
17 4-Amino-2,6-dinitrotoluene	1	11.334	11.336	-0.002	173248	1.00	0.9778	
18 2-Amino-4,6-dinitrotoluene	1	11.621	11.623	-0.002	219261	1.00	1.08	
19 2,6-Dinitrotoluene	1	11.787	11.783	0.004	157175	1.00	1.05	
20 2,4-Dinitrotoluene	1	11.981	11.983	-0.002	324284	1.00	1.07	
21 o-Nitrotoluene	1	12.821	12.823	-0.002	133699	1.00	0.9900	
22 p-Nitrotoluene	1	13.254	13.256	-0.002	116544	1.00	1.03	
23 m-Nitrotoluene	1	13.847	13.849	-0.002	148965	1.00	1.04	
24 PETN	2	14.941	14.936	0.005	824461	10.0	10.5	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

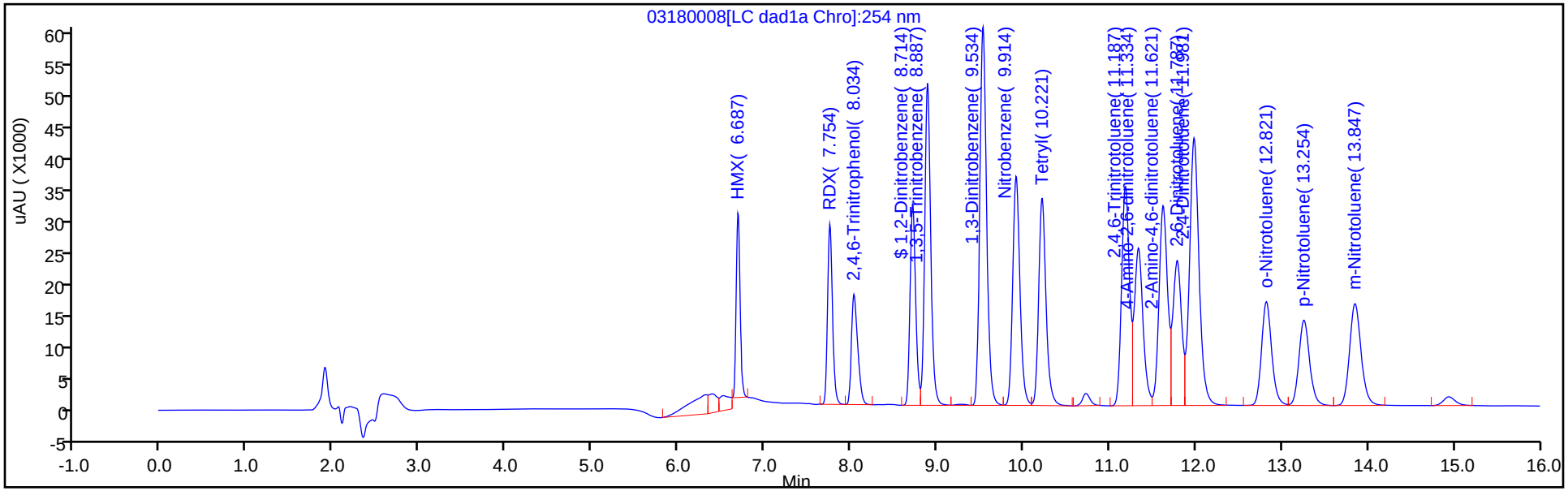
8330IntermStk_00061 Amount Added: 100.00 Units: uL

Report Date: 26-Mar-2020 15:45:40 Chrom Revision: 2.3 11-Mar-2020 18:53:20

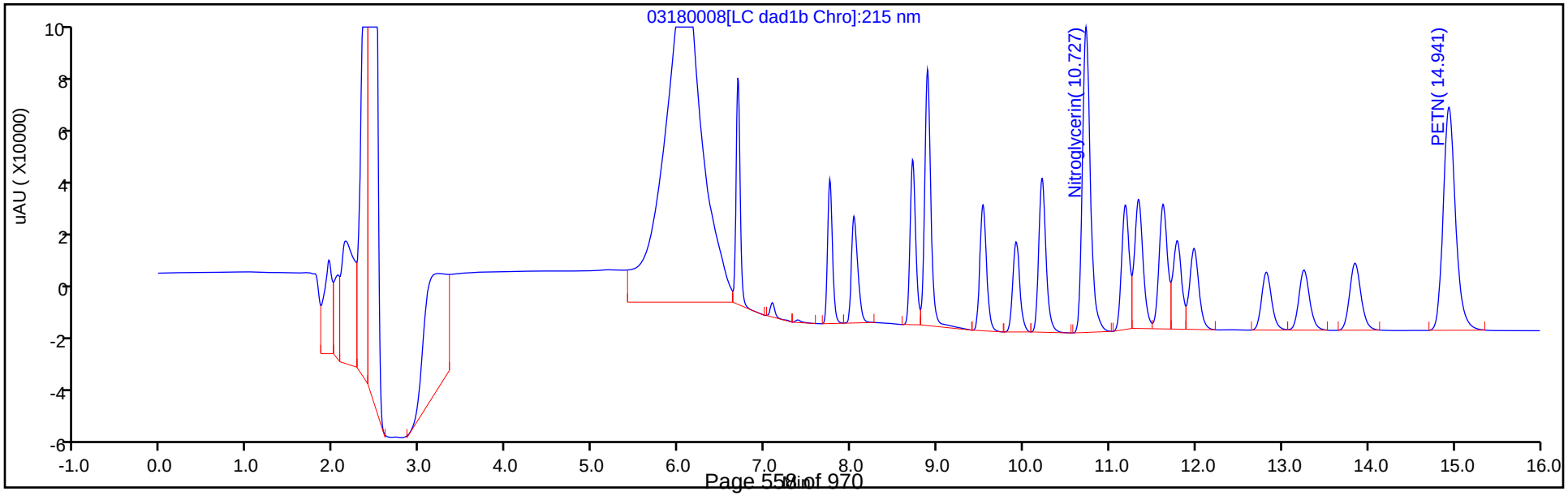
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180008.d				
Injection Date:	18-Mar-2020 11:58:50	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L8			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
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

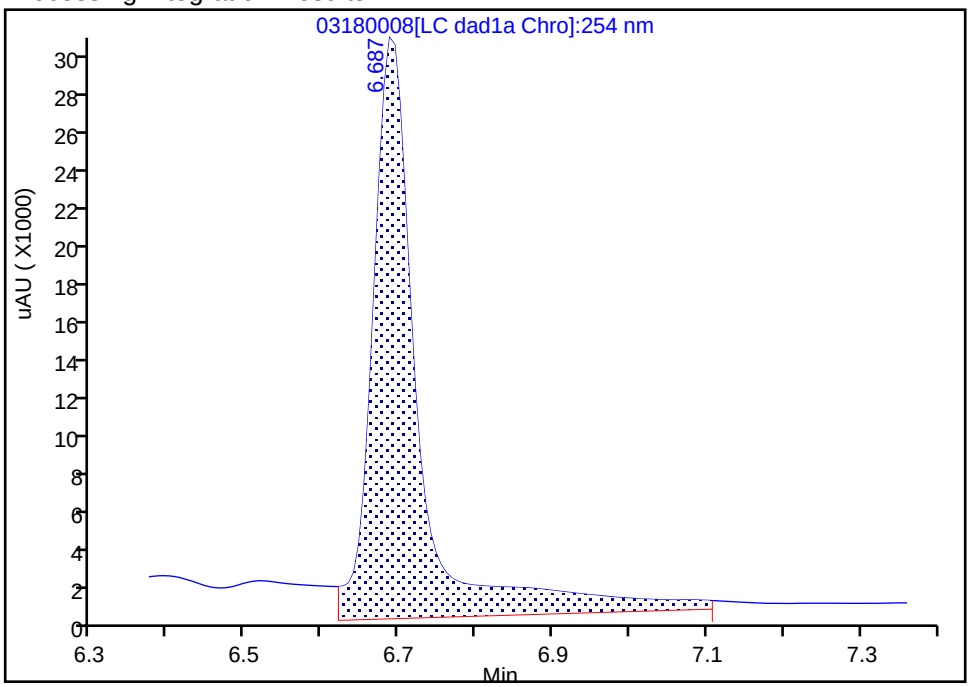
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180008.d				
Injection Date:	18-Mar-2020 11:58:50	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

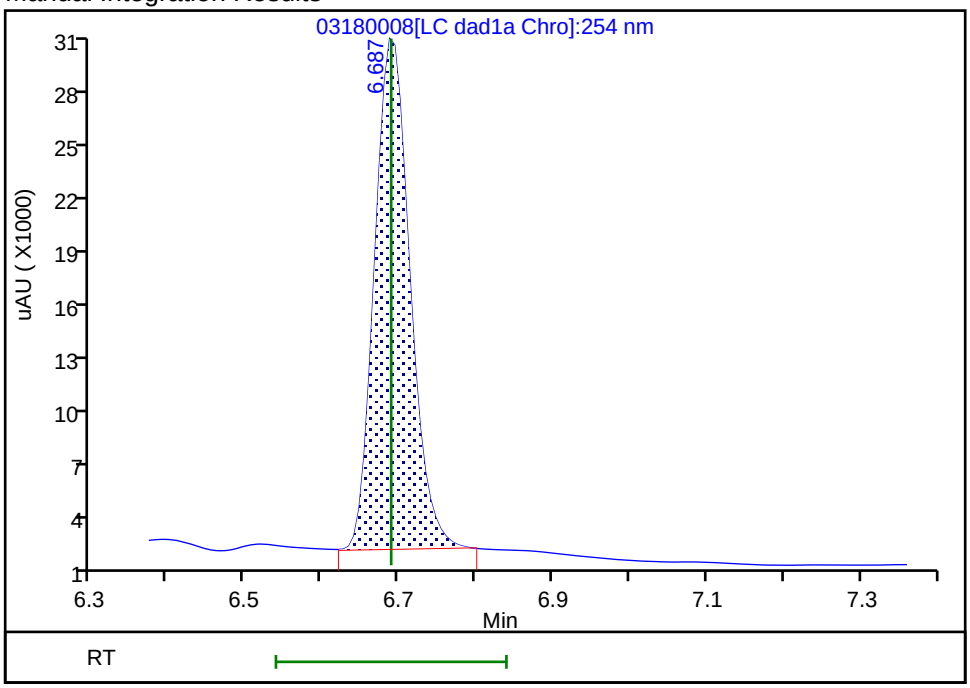
Processing Integration Results

RT: 6.69
Area: 128593
Amount: 1.149770
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 92351
Amount: 1.074321
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:41:59

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180009.D				
Lims ID:	IC MAIN L7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	18-Mar-2020 12:21:47	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC MAIN L7				
Misc. Info.:	280-0090150-009				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub9				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	26-Mar-2020 15:45:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 19-Mar-2020 08:42:38

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.687	6.689	-0.002	64274	0.7000	0.7477	M
	7 RDX	1	7.754	7.749	0.005	78289	0.7000	0.6714	
	8 2,4,6-Trinitrophenol	1	8.041	8.076	-0.035	60796	0.7000	0.7142	
$	9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	99878	0.7000	0.7226	
	10 1,3,5-Trinitrobenzene	1	8.881	8.883	-0.002	169775	0.7014	0.7372	
	11 1,3-Dinitrobenzene	1	9.527	9.529	-0.002	224707	0.7014	0.7327	
	12 Nitrobenzene	1	9.914	9.916	-0.002	147027	0.7028	0.7337	
	14 Tetryl	1	10.214	10.216	-0.002	133100	0.7014	0.7518	
	15 Nitroglycerin	2	10.727	10.729	-0.002	508407	7.00	7.46	
	16 2,4,6-Trinitrotoluene	1	11.181	11.183	-0.002	153561	0.7028	0.7526	
	17 4-Amino-2,6-dinitrotoluene	1	11.334	11.336	-0.002	118343	0.7007	0.6700	
	18 2-Amino-4,6-dinitrotoluene	1	11.621	11.623	-0.002	150258	0.7028	0.7409	
	19 2,6-Dinitrotoluene	1	11.781	11.783	-0.002	111703	0.7028	0.7474	
	20 2,4-Dinitrotoluene	1	11.981	11.983	-0.002	223282	0.7028	0.7355	
	21 o-Nitrotoluene	1	12.814	12.823	-0.009	93761	0.7000	0.6943	
	22 p-Nitrotoluene	1	13.254	13.256	-0.002	81534	0.7014	0.7215	
	23 m-Nitrotoluene	1	13.841	13.849	-0.008	104089	0.7007	0.7277	
	24 PETN	2	14.927	14.936	-0.009	568970	7.00	7.24	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

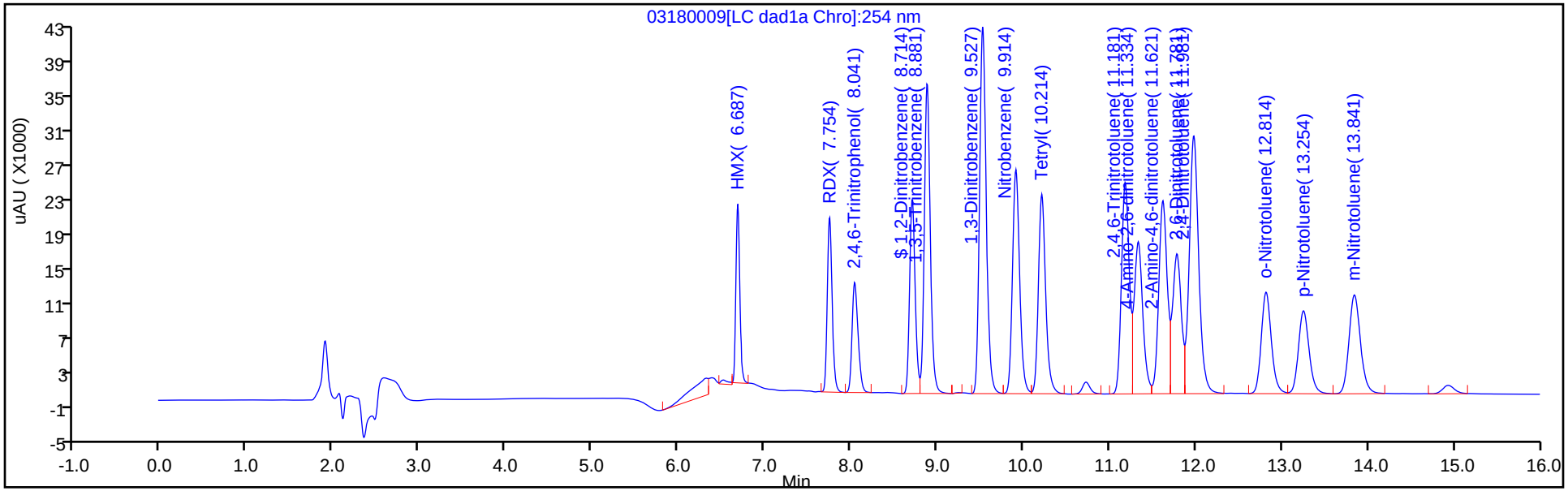
8330IntermStk_00061 Amount Added: 70.00 Units: uL

Report Date: 26-Mar-2020 15:45:41 Chrom Revision: 2.3 11-Mar-2020 18:53:20

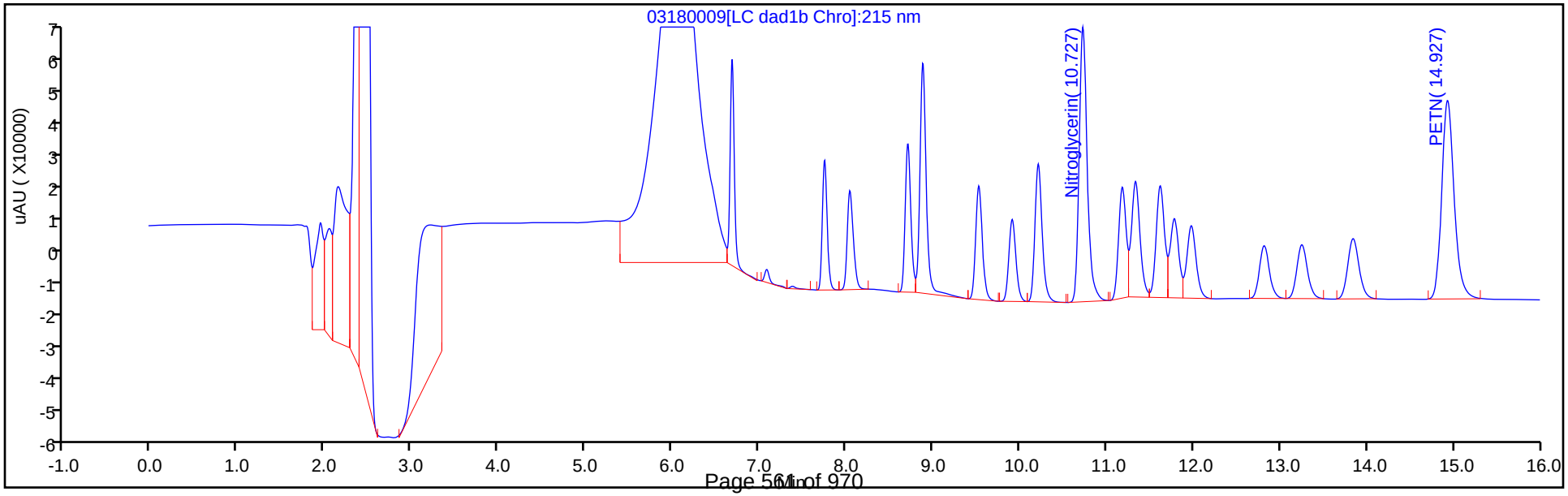
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180009.d				
Injection Date:	18-Mar-2020 12:21:47	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L7			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

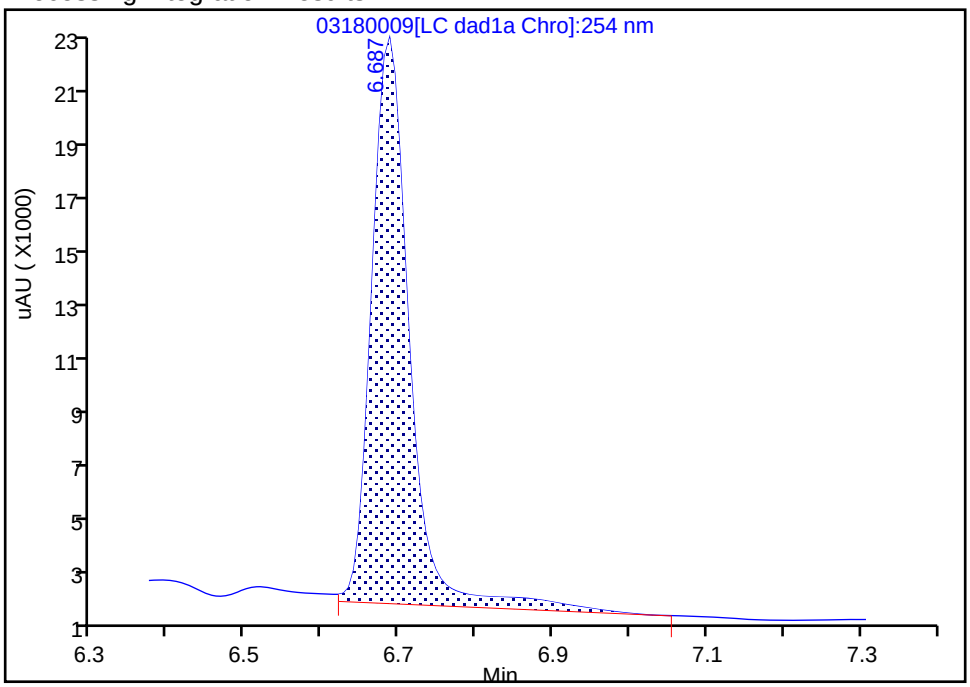
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180009.d				
Injection Date:	18-Mar-2020 12:21:47	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

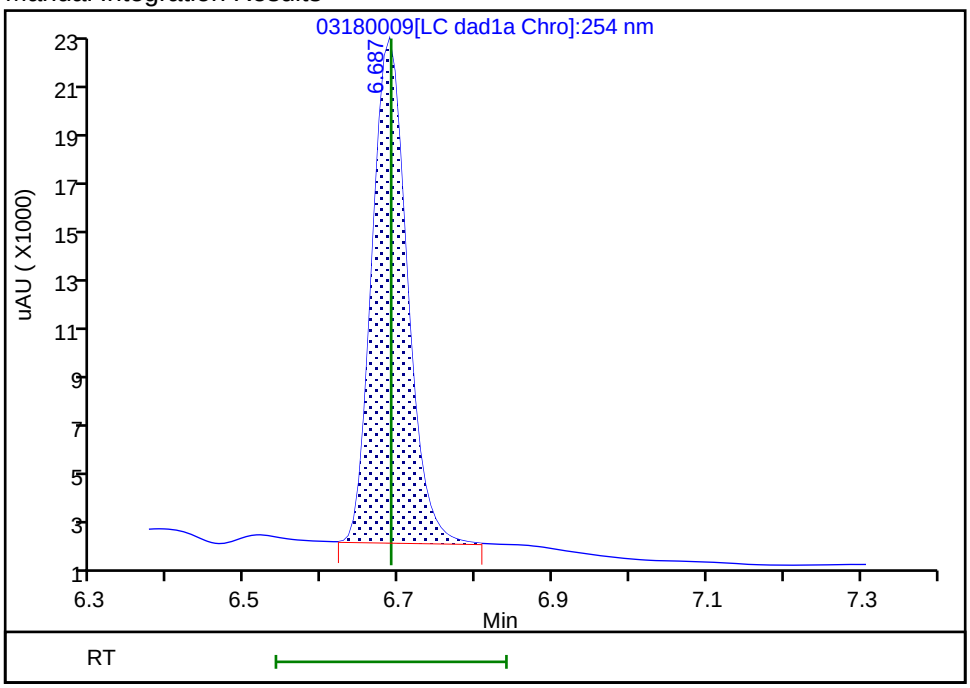
Processing Integration Results

RT: 6.69
Area: 70764
Amount: 0.364265
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 64274
Amount: 0.747701
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:42:26

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180010.D
Lims ID: IC MAIN L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 18-Mar-2020 12:44:45 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L6
Misc. Info.: 280-0090150-010
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:41 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:43:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	36589	0.4000	0.4256	M
7 RDX	1	7.754	7.749	0.005	45286	0.4000	0.3883	
8 2,4,6-Trinitrophenol	1	8.054	8.076	-0.022	34679	0.4000	0.4074	
$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	57167	0.4000	0.4136	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	97215	0.4008	0.4221	
11 1,3-Dinitrobenzene	1	9.527	9.529	-0.002	129174	0.4008	0.4212	
12 Nitrobenzene	1	9.914	9.916	-0.002	84120	0.4016	0.4198	
14 Tetryl	1	10.221	10.216	0.005	76213	0.4008	0.4305	
15 Nitroglycerin	2	10.734	10.729	0.005	294728	4.00	4.33	
16 2,4,6-Trinitrotoluene	1	11.187	11.183	0.004	86650	0.4016	0.4247	
17 4-Amino-2,6-dinitrotoluene	1	11.341	11.336	0.005	70023	0.4004	0.3991	
18 2-Amino-4,6-dinitrotoluene	1	11.627	11.623	0.004	85612	0.4016	0.4221	
19 2,6-Dinitrotoluene	1	11.787	11.783	0.004	64354	0.4016	0.4306	
20 2,4-Dinitrotoluene	1	11.987	11.983	0.004	128504	0.4016	0.4233	
21 o-Nitrotoluene	1	12.827	12.823	0.004	53830	0.4000	0.3986	
22 p-Nitrotoluene	1	13.261	13.256	0.005	46607	0.4008	0.4124	
23 m-Nitrotoluene	1	13.854	13.849	0.005	60098	0.4004	0.4202	
24 PETN	2	14.941	14.936	0.005	328307	4.00	4.18	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

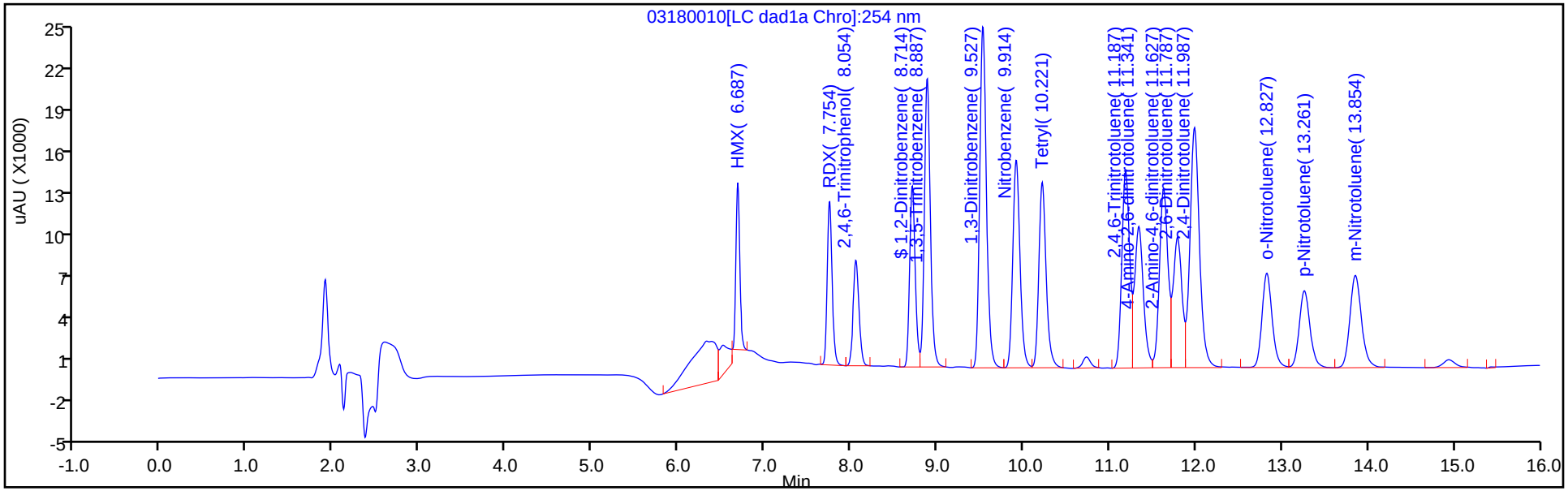
8330IntermStk_00061 Amount Added: 40.00 Units: uL

Report Date: 26-Mar-2020 15:45:42 Chrom Revision: 2.3 11-Mar-2020 18:53:20

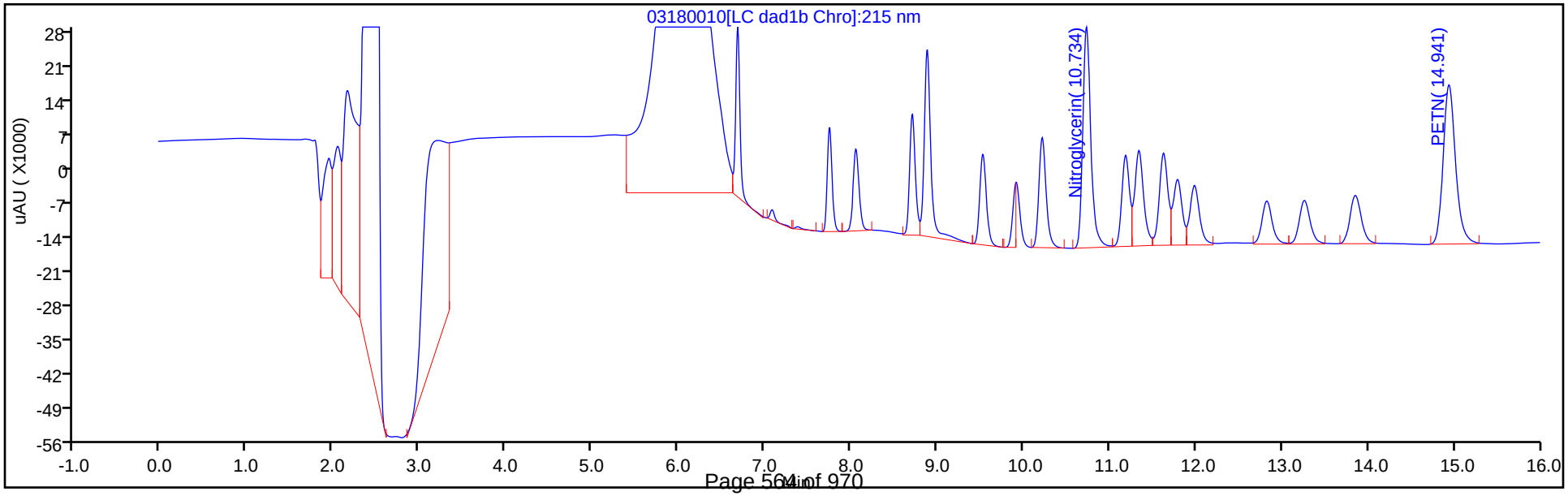
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180010.d				
Injection Date:	18-Mar-2020 12:44:45	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L6			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
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

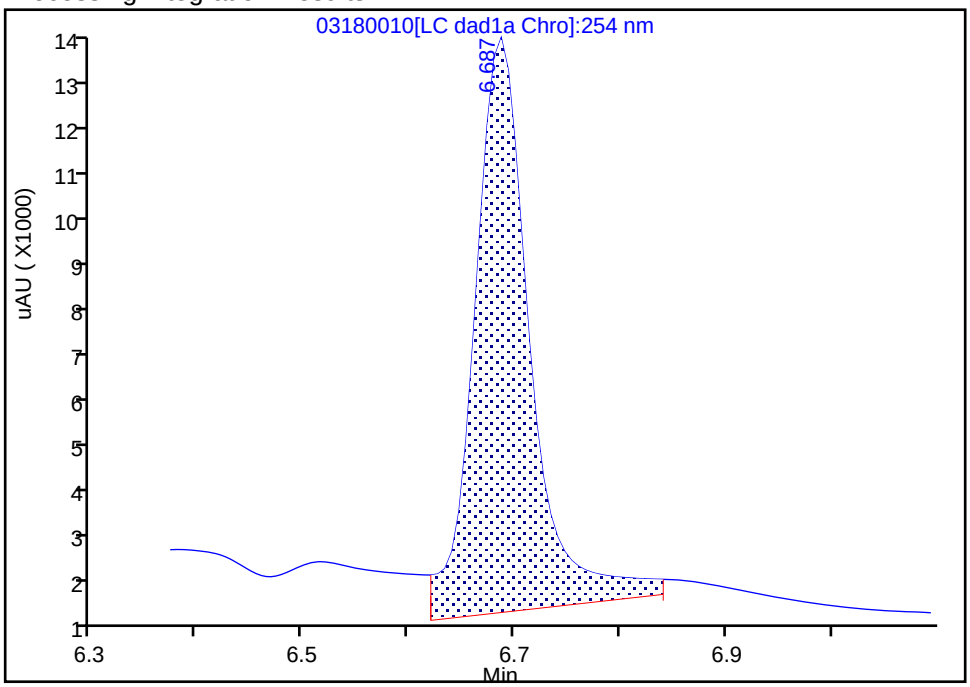
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180010.d				
Injection Date:	18-Mar-2020 12:44:45	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

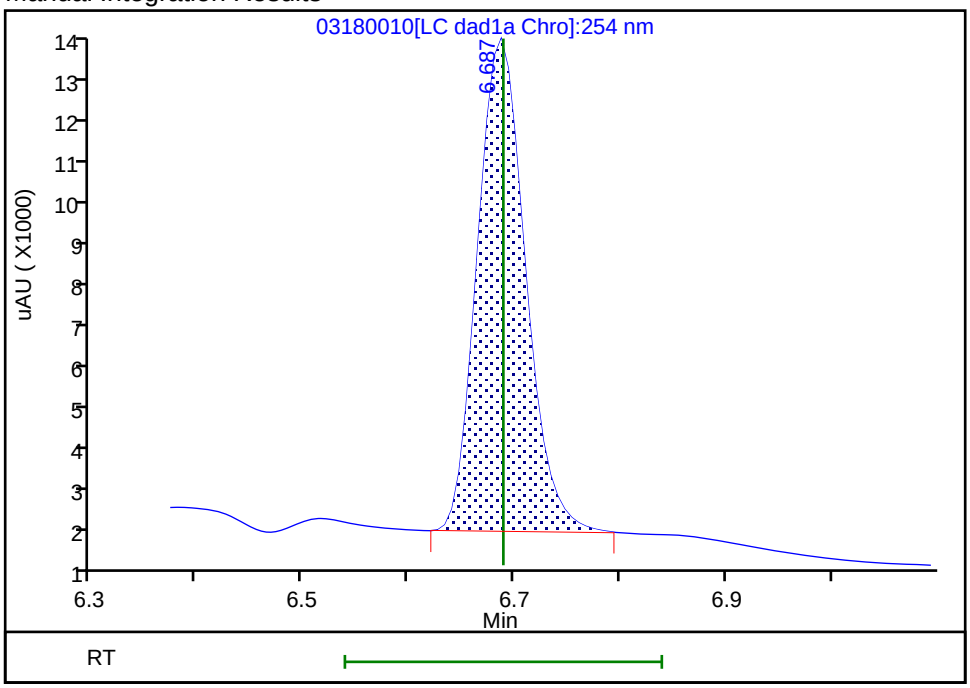
Processing Integration Results

RT: 6.69
Area: 45375
Amount: 0.234818
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 36589
Amount: 0.425641
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:42:54

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180011.D				
Lims ID:	IC MAIN L5				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	18-Mar-2020 13:07:42	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC MAIN L5				
Misc. Info.:	280-0090150-011				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub9				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	26-Mar-2020 15:45:42	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				
First Level Reviewer: beckerc		Date:	19-Mar-2020 08:43:30		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.688	6.689	-0.001	22752	0.2500	0.2647	M
7 RDX	1	7.754	7.749	0.005	28236	0.2500	0.2421	
8 2,4,6-Trinitrophenol	1	8.068	8.076	-0.008	21617	0.2500	0.2539	
$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	35555	0.2500	0.2572	
10 1,3,5-Trinitrobenzene	1	8.888	8.883	0.005	60039	0.2505	0.2607	
11 1,3-Dinitrobenzene	1	9.534	9.529	0.005	80465	0.2505	0.2624	
12 Nitrobenzene	1	9.921	9.916	0.005	52480	0.2510	0.2619	
14 Tetryl	1	10.221	10.216	0.005	47307	0.2505	0.2672	
15 Nitroglycerin	2	10.734	10.729	0.005	184270	2.50	2.70	
16 2,4,6-Trinitrotoluene	1	11.194	11.183	0.011	54439	0.2510	0.2668	
17 4-Amino-2,6-dinitrotoluene	1	11.347	11.336	0.011	43388	0.2503	0.2498	
18 2-Amino-4,6-dinitrotoluene	1	11.634	11.623	0.011	53635	0.2510	0.2645	
19 2,6-Dinitrotoluene	1	11.794	11.783	0.011	40049	0.2510	0.2680	
20 2,4-Dinitrotoluene	1	11.987	11.983	0.004	80062	0.2510	0.2637	
21 o-Nitrotoluene	1	12.827	12.823	0.004	34604	0.2500	0.2562	
22 p-Nitrotoluene	1	13.261	13.256	0.005	29824	0.2505	0.2639	
23 m-Nitrotoluene	1	13.854	13.849	0.005	37511	0.2503	0.2623	
24 PETN	2	14.941	14.936	0.005	201180	2.50	2.56	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

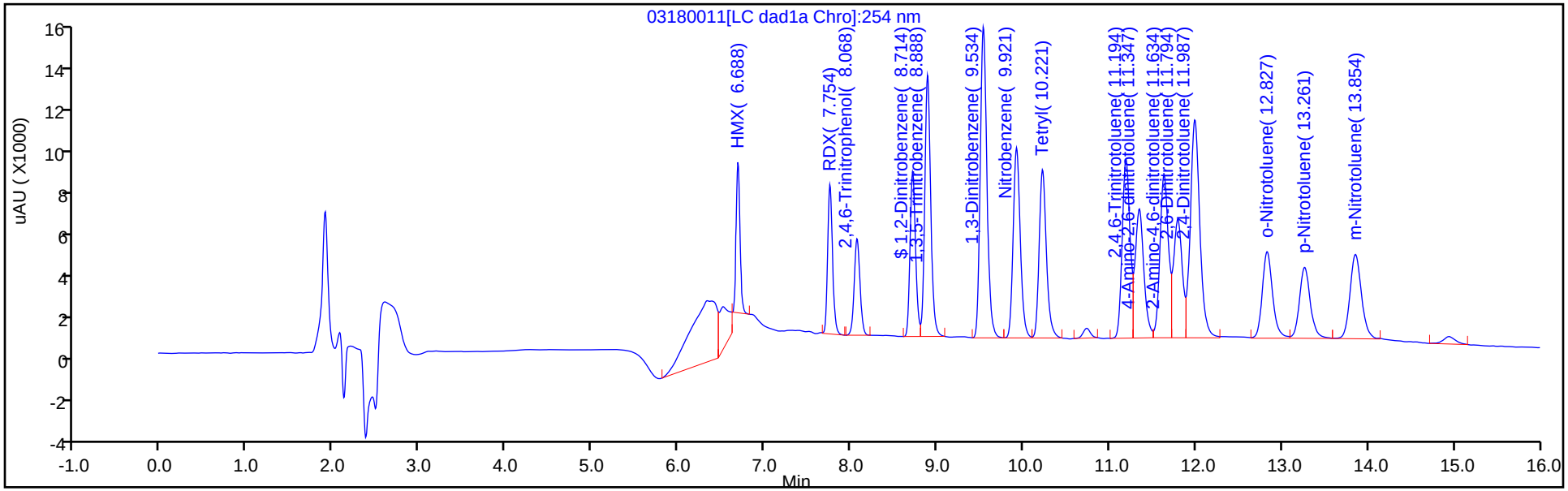
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 26-Mar-2020 15:45:42 Chrom Revision: 2.3 11-Mar-2020 18:53:20

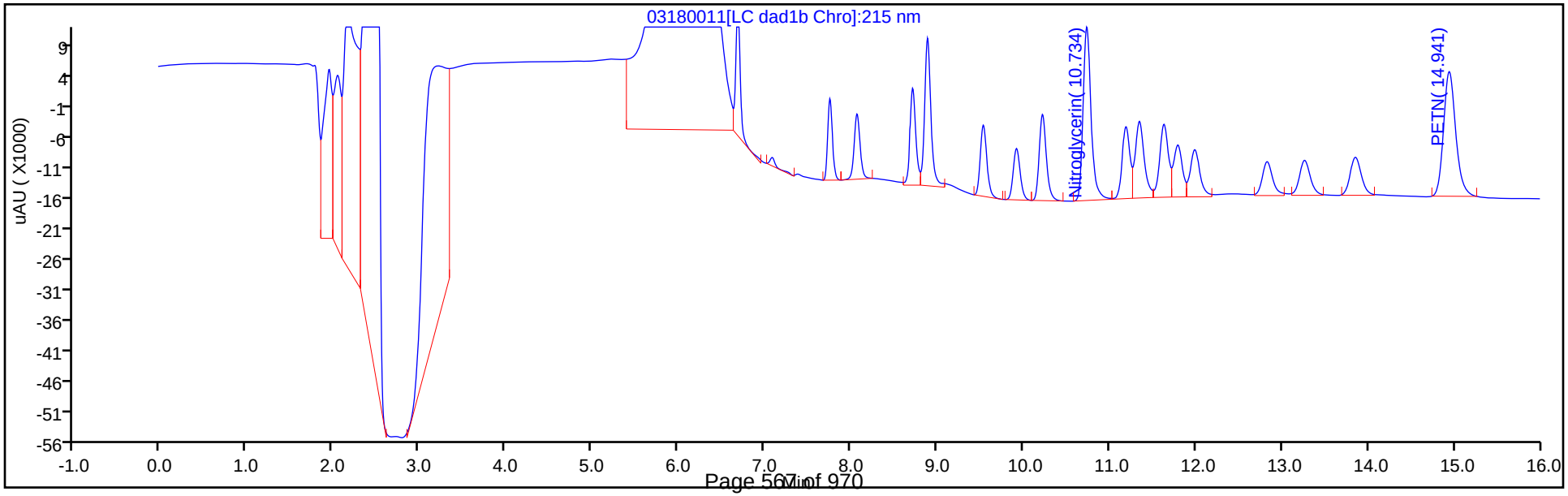
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180011.d				
Injection Date:	18-Mar-2020 13:07:42	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L5			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

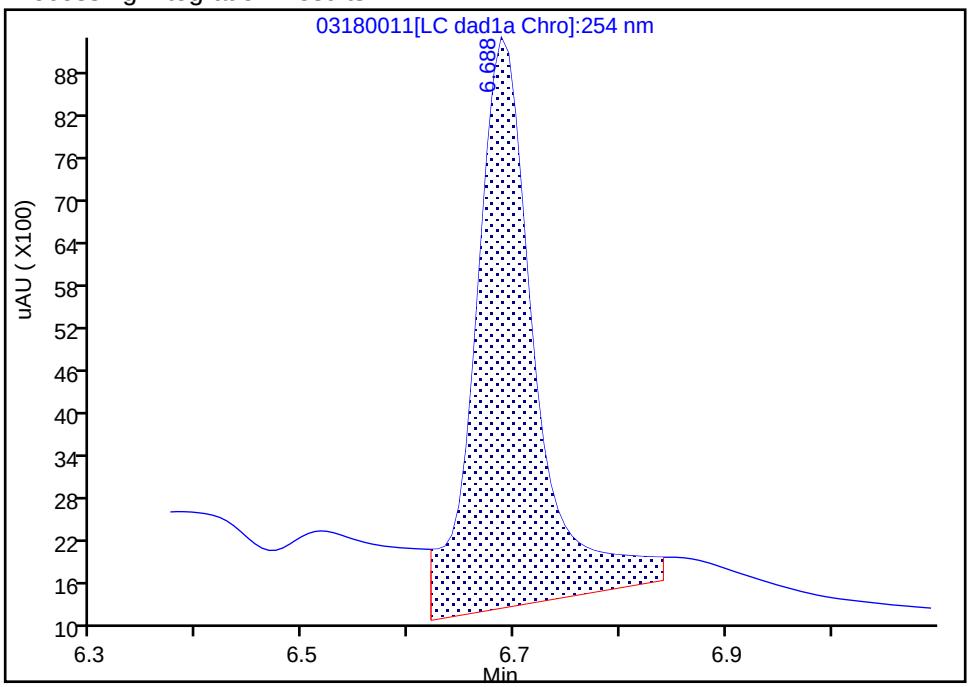
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180011.d				
Injection Date:	18-Mar-2020 13:07:42	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

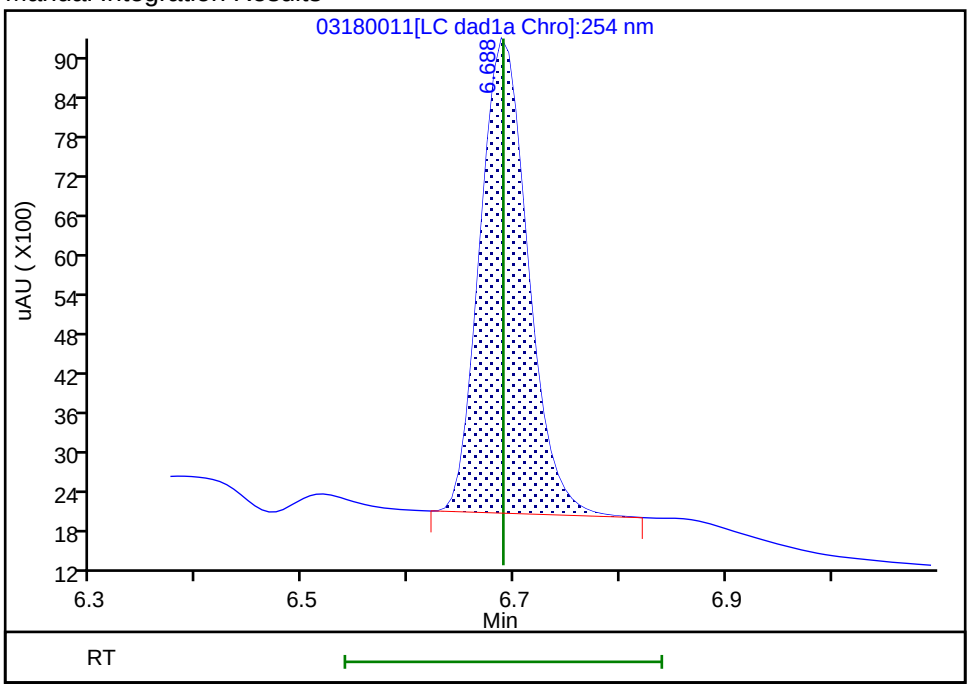
Processing Integration Results

RT: 6.69
Area: 31475
Amount: 0.164968
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 22752
Amount: 0.264675
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:43:23

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180012.D				
Lims ID:	IC MAIN L4				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	18-Mar-2020 13:30:35	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC MAIN L4				
Misc. Info.:	280-0090150-012				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub9				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	26-Mar-2020 15:45:43	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 19-Mar-2020 08:43:47

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.689	6.689	0.000	9080	0.1000	0.1056	M
	7 RDX	1	7.749	7.749	0.000	11701	0.1000	0.1003	
	8 2,4,6-Trinitrophenol	1	8.076	8.076	0.000	8647	0.1000	0.1016	
$	9 1,2-Dinitrobenzene	1	8.709	8.709	0.000	14127	0.1000	0.1022	
	10 1,3,5-Trinitrobenzene	1	8.883	8.883	0.000	23730	0.1002	0.1030	
	11 1,3-Dinitrobenzene	1	9.529	9.529	0.000	31897	0.1002	0.1040	
	12 Nitrobenzene	1	9.916	9.916	0.000	20859	0.1004	0.1041	
	14 Tetryl	1	10.216	10.216	0.000	18527	0.1002	0.1047	
	15 Nitroglycerin	2	10.729	10.729	0.000	71269	1.00	1.05	
	16 2,4,6-Trinitrotoluene	1	11.183	11.183	0.000	21830	0.1004	0.1070	
	17 4-Amino-2,6-dinitrotoluene	1	11.336	11.336	0.000	17293	0.1001	0.1035	
	18 2-Amino-4,6-dinitrotoluene	1	11.623	11.623	0.000	21043	0.1004	0.1038	
	19 2,6-Dinitrotoluene	1	11.783	11.783	0.000	15921	0.1004	0.1065	
	20 2,4-Dinitrotoluene	1	11.983	11.983	0.000	31802	0.1004	0.1048	
	21 o-Nitrotoluene	1	12.823	12.823	0.000	13733	0.1000	0.1017	
	22 p-Nitrotoluene	1	13.256	13.256	0.000	11811	0.1002	0.1045	
	23 m-Nitrotoluene	1	13.849	13.849	0.000	14838	0.1001	0.1037	
	24 PETN	2	14.936	14.936	0.000	78947	1.00	1.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

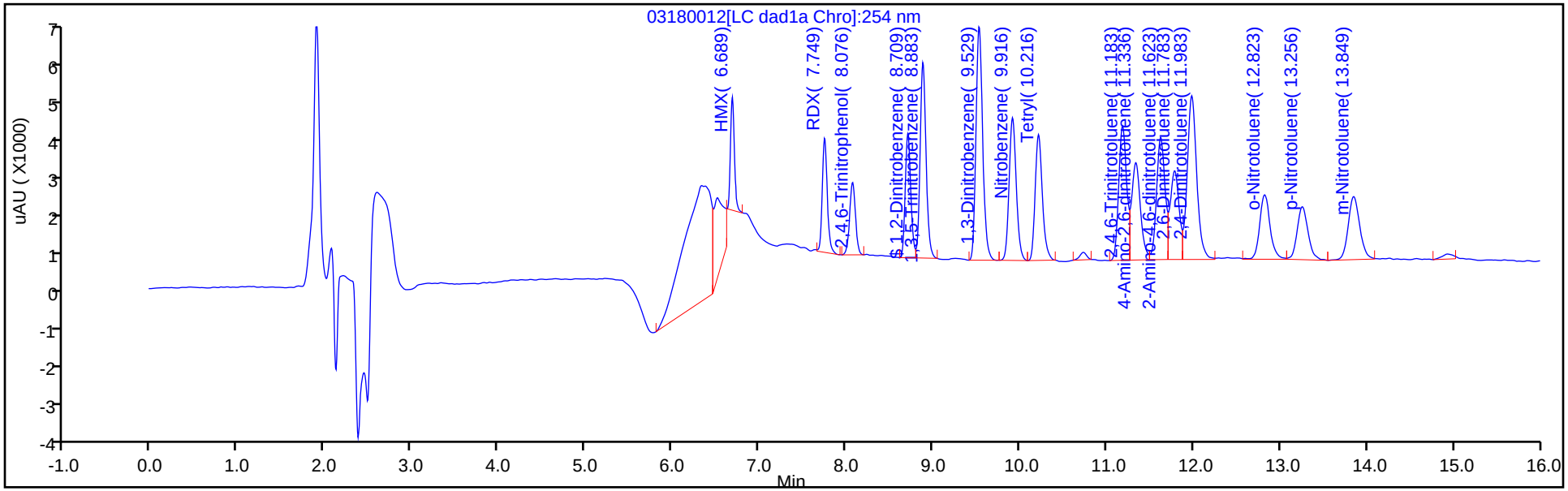
8330IntermStk_00061 Amount Added: 10.00 Units: uL

Report Date: 26-Mar-2020 15:45:43 Chrom Revision: 2.3 11-Mar-2020 18:53:20

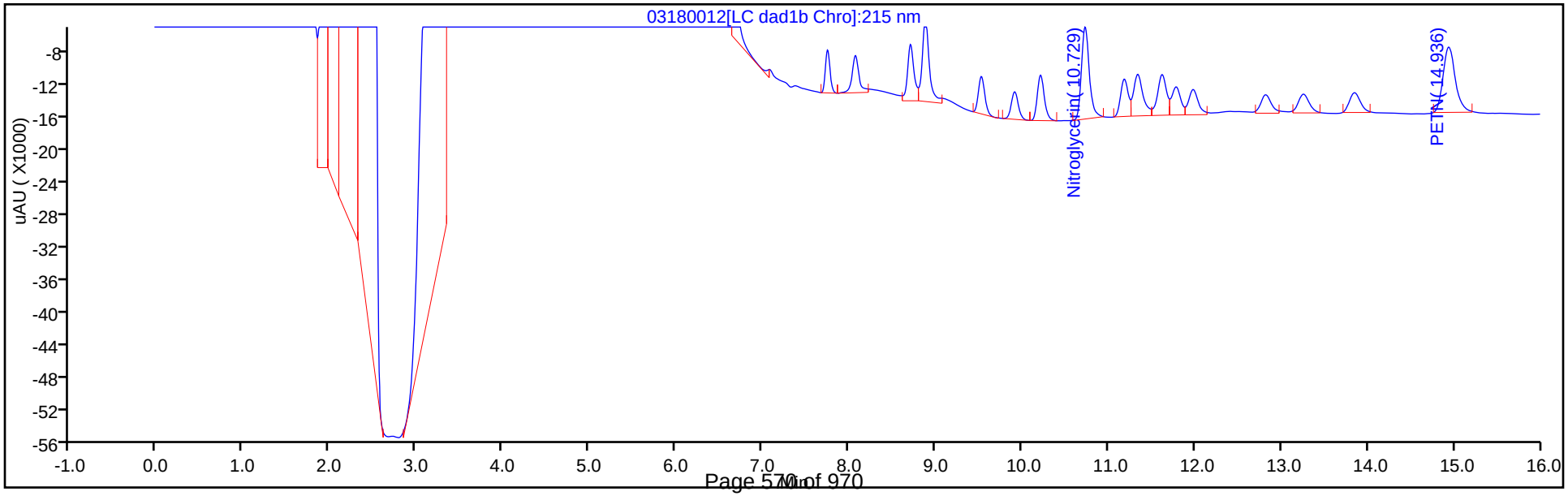
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180012.d				
Injection Date:	18-Mar-2020 13:30:35	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L4			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

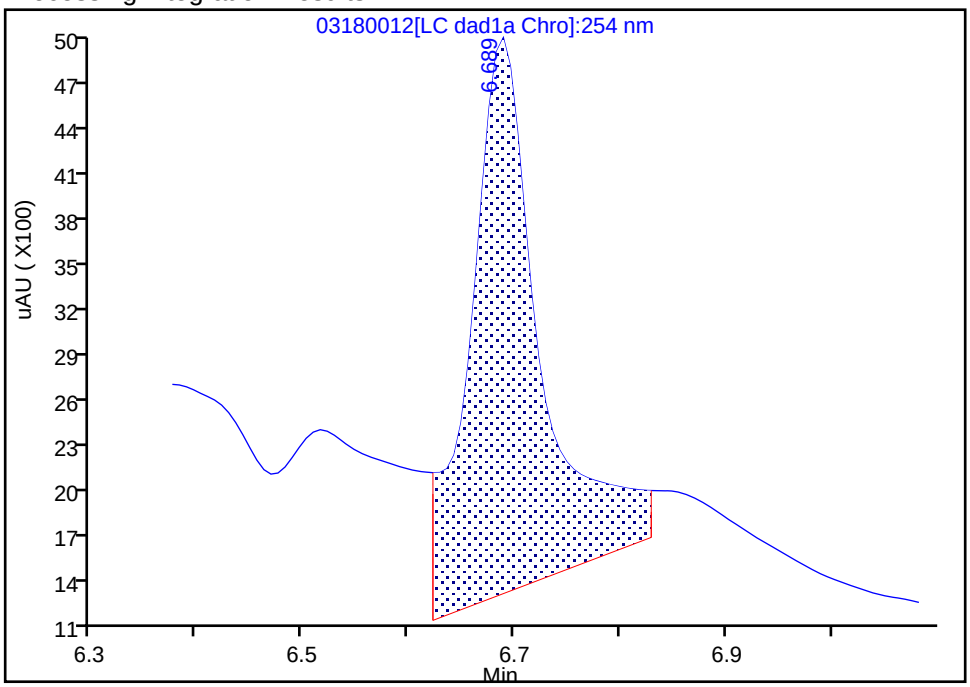
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180012.d				
Injection Date:	18-Mar-2020 13:30:35	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

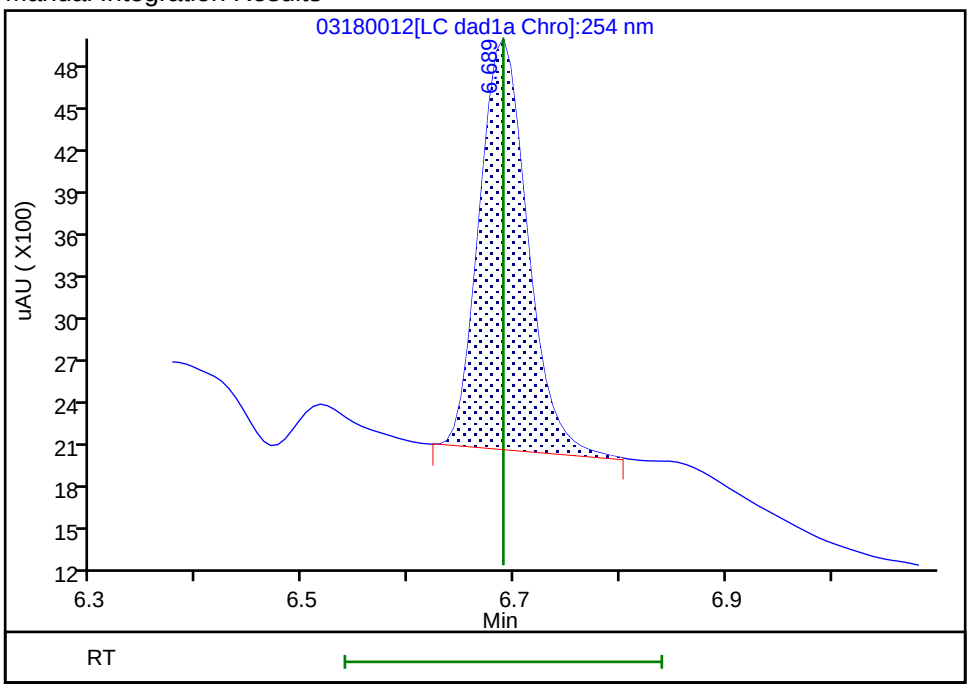
Processing Integration Results

RT: 6.69
Area: 16912
Amount: 0.090478
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 9080
Amount: 0.105628
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:43:42

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180013.D
Lims ID: IC MAIN L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Mar-2020 13:53:37 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L3
Misc. Info.: 280-0090150-013
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:44 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:44:05

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	4323	0.0500	0.0503	M
7 RDX	1	7.753	7.749	0.004	6070	0.0500	0.0521	
8 2,4,6-Trinitrophenol	1	8.080	8.076	0.004	4305	0.0500	0.0506	
$ 9 1,2-Dinitrobenzene	1	8.713	8.709	0.004	7239	0.0500	0.0524	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	11986	0.0501	0.0520	
11 1,3-Dinitrobenzene	1	9.533	9.529	0.004	16146	0.0501	0.0526	
12 Nitrobenzene	1	9.920	9.916	0.004	10485	0.0502	0.0523	
14 Tetryl	1	10.220	10.216	0.004	9136	0.0501	0.0516	
15 Nitroglycerin	2	10.733	10.729	0.004	33491	0.5000	0.4915	
16 2,4,6-Trinitrotoluene	1	11.186	11.183	0.003	10774	0.0502	0.0528	
17 4-Amino-2,6-dinitrotoluene	1	11.340	11.336	0.004	8490	0.0501	0.0541	
18 2-Amino-4,6-dinitrotoluene	1	11.633	11.623	0.010	10503	0.0502	0.0518	
19 2,6-Dinitrotoluene	1	11.793	11.783	0.010	7882	0.0502	0.0527	
20 2,4-Dinitrotoluene	1	11.986	11.983	0.003	15741	0.0502	0.0519	
21 o-Nitrotoluene	1	12.833	12.823	0.010	7553	0.0500	0.0559	
22 p-Nitrotoluene	1	13.260	13.256	0.004	6416	0.0501	0.0568	
23 m-Nitrotoluene	1	13.853	13.849	0.004	7758	0.0501	0.0542	
24 PETN	2	14.946	14.936	0.010	37407	0.5000	0.4759	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

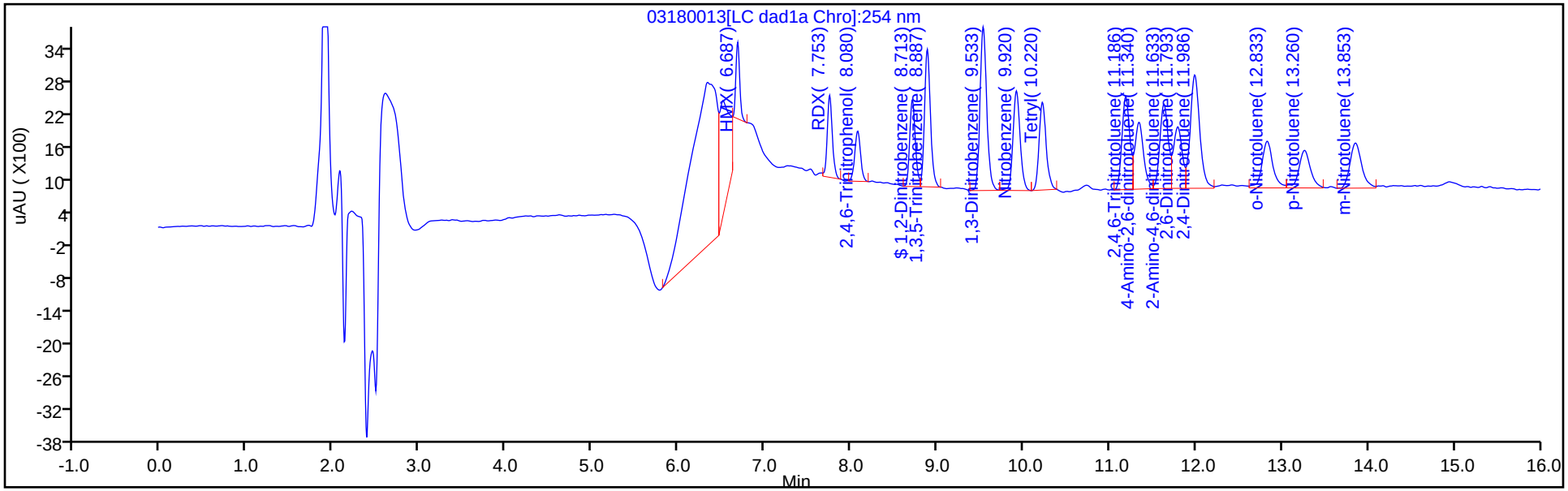
8330IntermStk_00061 Amount Added: 5.00 Units: uL

Report Date: 26-Mar-2020 15:45:44 Chrom Revision: 2.3 11-Mar-2020 18:53:20

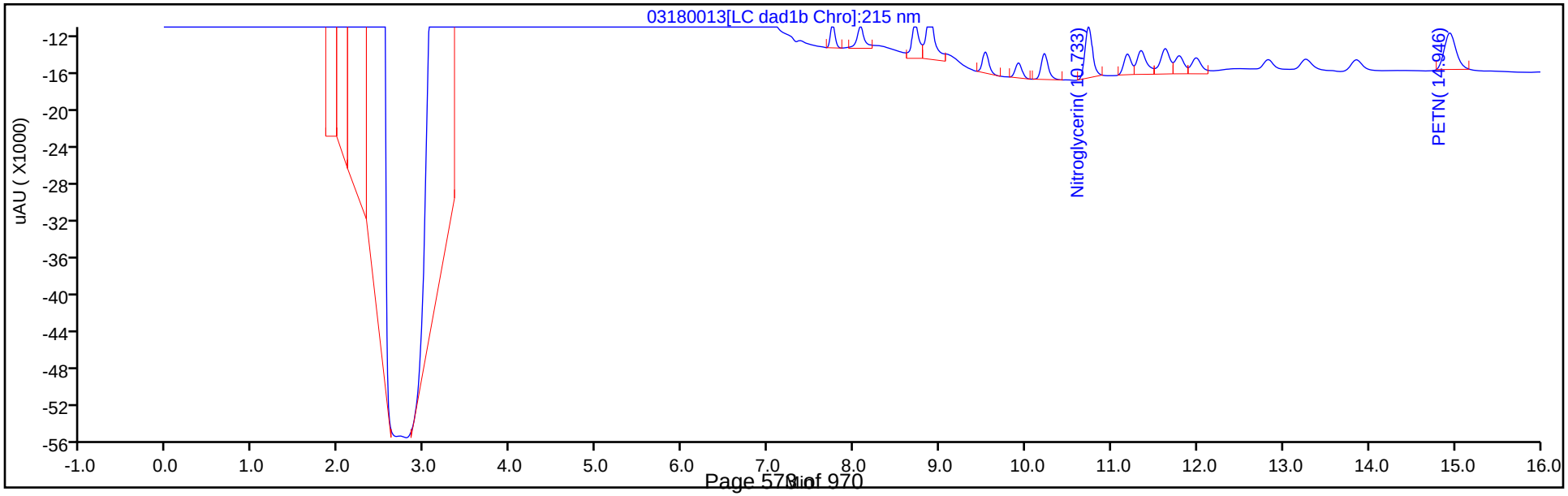
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180013.d				
Injection Date:	18-Mar-2020 13:53:37	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L3			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

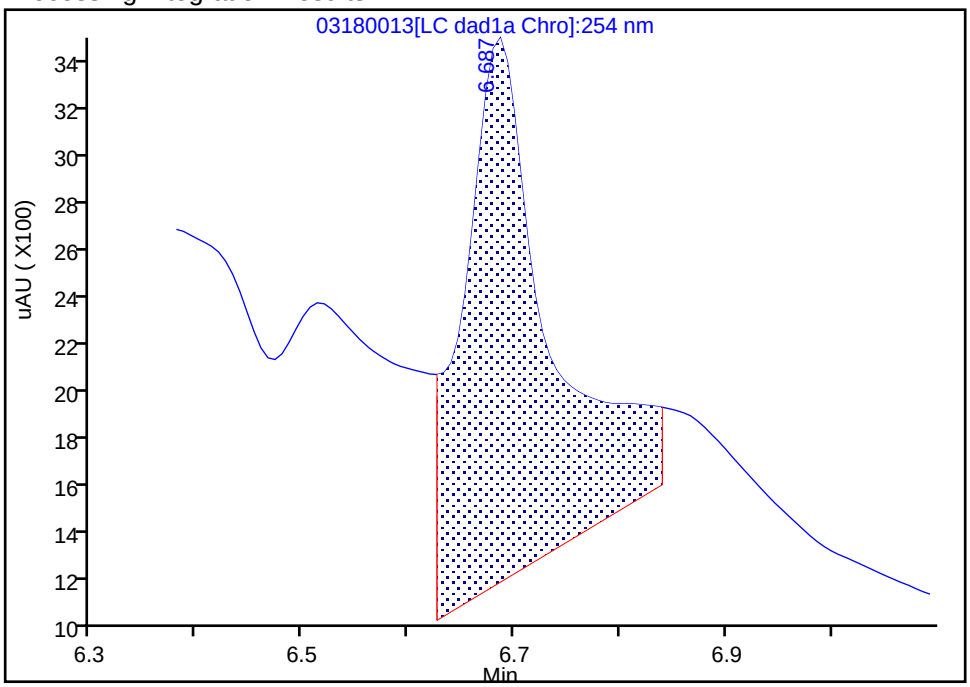
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180013.d				
Injection Date:	18-Mar-2020 13:53:37	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

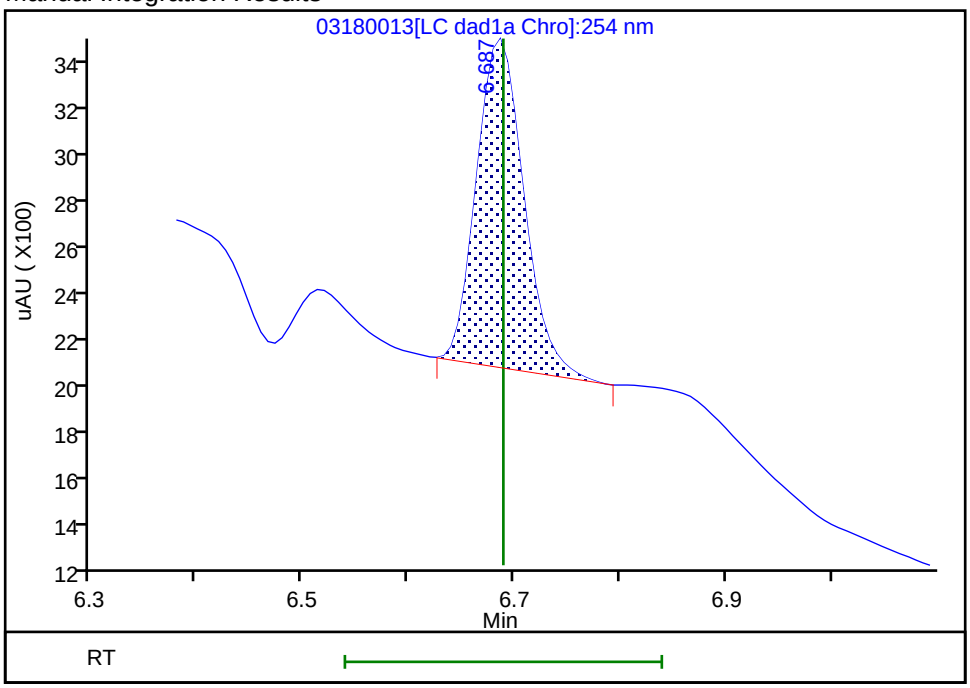
Processing Integration Results

RT: 6.69
Area: 12509
Amount: 0.070190
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 4323
Amount: 0.050290
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:44:00

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180014.D
Lims ID: IC MAIN L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Mar-2020 14:16:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L2
Misc. Info.: 280-0090150-014
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:44 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:44:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.689	6.689	0.000	1536	0.0250	0.0179	M
7 RDX	1	7.755	7.749	0.006	2817	0.0250	0.0242	
8 2,4,6-Trinitrophenol	1	8.082	8.076	0.006	1774	0.0250	0.0208	
$ 9 1,2-Dinitrobenzene	1	8.709	8.709	0.000	2996	0.0250	0.0217	
10 1,3,5-Trinitrobenzene	1	8.889	8.883	0.006	4845	0.0251	0.0210	
11 1,3-Dinitrobenzene	1	9.535	9.529	0.006	6270	0.0251	0.0204	
12 Nitrobenzene	1	9.922	9.916	0.006	4155	0.0251	0.0207	
14 Tetryl	1	10.215	10.216	-0.001	3492	0.0251	0.0197	
15 Nitroglycerin	2	10.735	10.729	0.006	13701	0.2500	0.2011	
16 2,4,6-Trinitrotoluene	1	11.189	11.183	0.006	4307	0.0251	0.0211	
17 4-Amino-2,6-dinitrotoluene	1	11.342	11.336	0.006	3443	0.0250	0.0258	
18 2-Amino-4,6-dinitrotoluene	1	11.629	11.623	0.006	4046	0.0251	0.0199	M
19 2,6-Dinitrotoluene	1	11.789	11.783	0.006	2987	0.0251	0.0200	M
20 2,4-Dinitrotoluene	1	11.989	11.983	0.006	6274	0.0251	0.0207	
21 o-Nitrotoluene	1	12.822	12.823	-0.001	3068	0.0250	0.0227	
22 p-Nitrotoluene	1	13.269	13.256	0.013	2509	0.0251	0.0222	
23 m-Nitrotoluene	1	13.849	13.849	0.000	3129	0.0250	0.0219	
24 PETN	2	14.942	14.936	0.006	11624	0.2500	0.1479	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

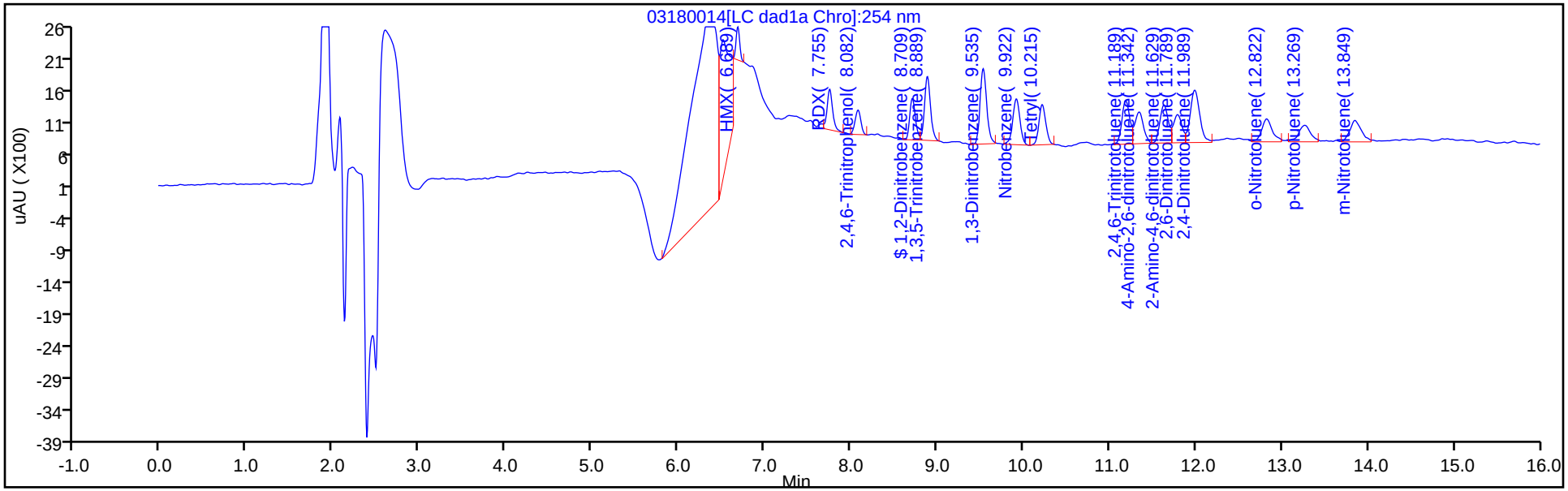
8330IntermStk_00061 Amount Added: 2.50 Units: uL

Report Date: 26-Mar-2020 15:45:45 Chrom Revision: 2.3 11-Mar-2020 18:53:20

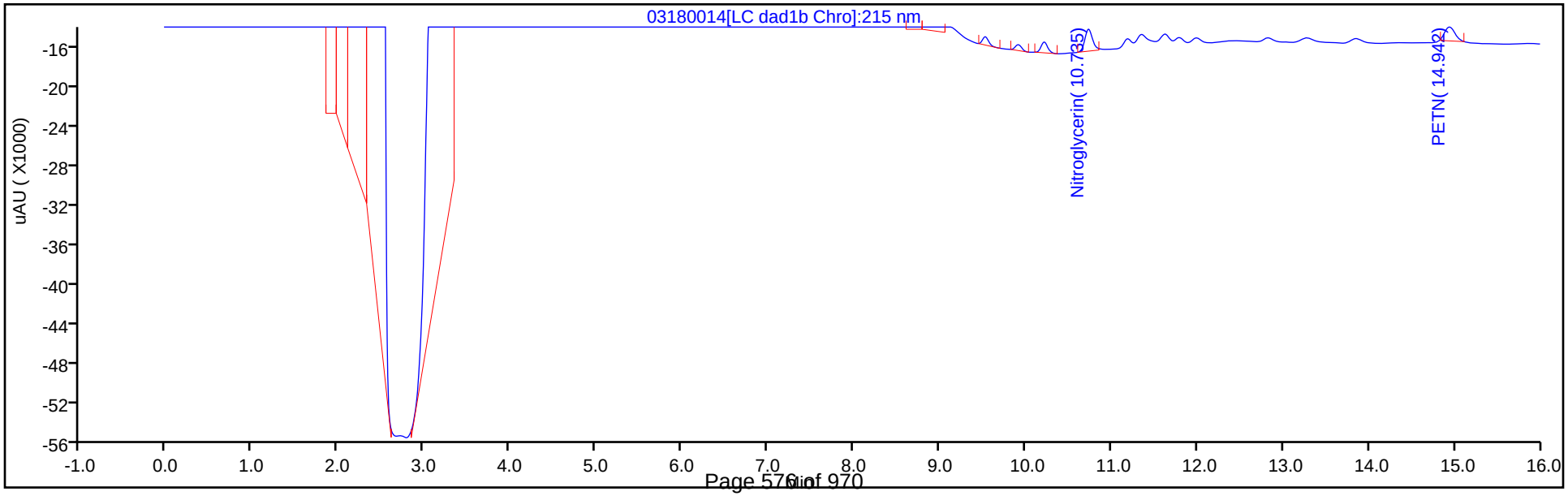
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d				
Injection Date:	18-Mar-2020 14:16:32	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L2			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

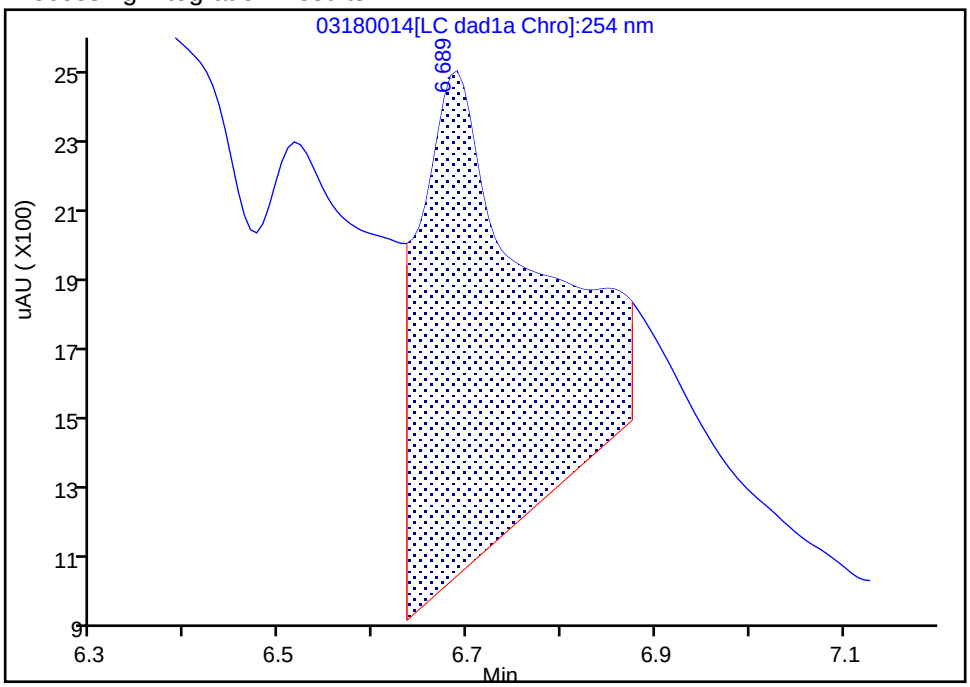
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d				
Injection Date:	18-Mar-2020 14:16:32	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

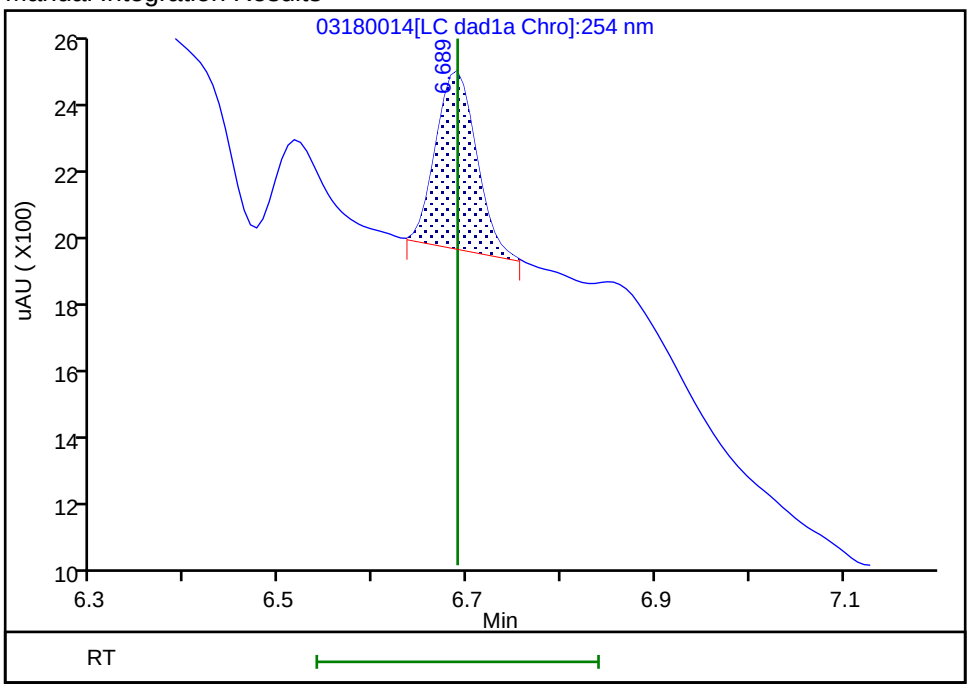
Processing Integration Results

RT: 6.69
Area: 11606
Amount: 0.072526
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 1536
Amount: 0.017868
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:44:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

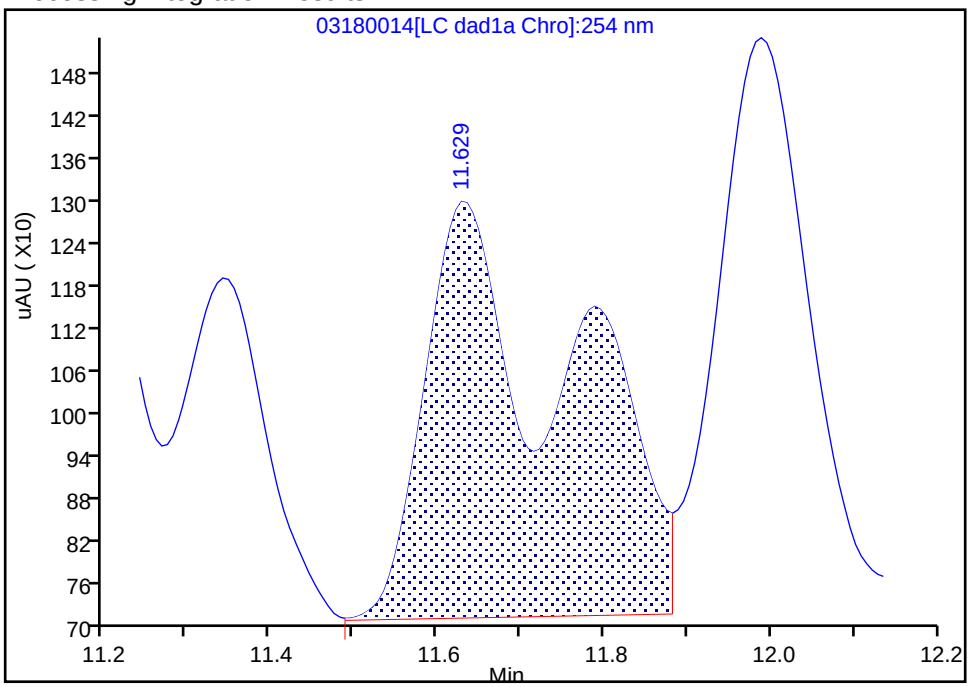
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d				
Injection Date:	18-Mar-2020 14:16:32	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

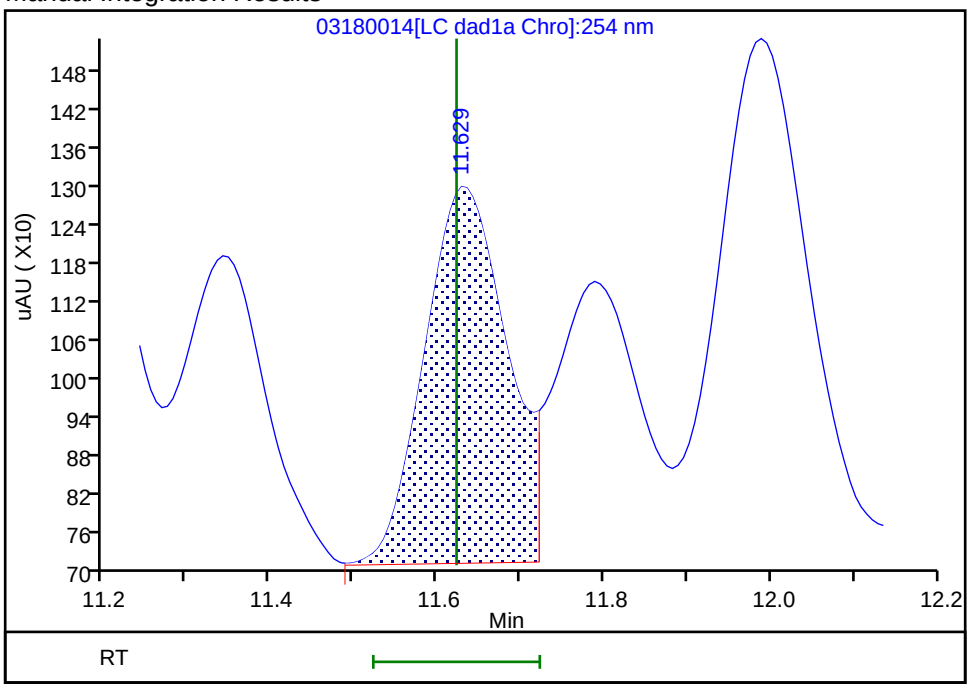
Processing Integration Results

RT: 11.63
Area: 7030
Amount: 0.030654
Amount Units: ug/mL



Manual Integration Results

RT: 11.63
Area: 4046
Amount: 0.019949
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:44:36
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Lims ID: IC MAIN L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Mar-2020 14:39:27 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L1
Misc. Info.: 280-0090150-015
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:45 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:46:42

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1		6.689			ND	ND	MU
7 RDX	1		7.749			ND	ND	MU
8 2,4,6-Trinitrophenol	1	8.082	8.076	0.006	1082	0.0125	0.0127	M
$ 9 1,2-Dinitrobenzene	1	8.715	8.709	0.006	1531	0.0125	0.0111	
10 1,3,5-Trinitrobenzene	1	8.888	8.883	0.005	2405	0.0125	0.0104	
11 1,3-Dinitrobenzene	1	9.535	9.529	0.006	3191	0.0125	0.0104	
12 Nitrobenzene	1	9.915	9.916	-0.001	2176	0.0126	0.0109	
14 Tetryl	1	10.221	10.216	0.005	1664	0.0125	0.009399	
15 Nitroglycerin	2	10.735	10.729	0.006	6790	0.1250	0.0997	
16 2,4,6-Trinitrotoluene	1	11.195	11.183	0.012	1807	0.0126	0.008856	
17 4-Amino-2,6-dinitrotoluene	1	11.341	11.336	0.005	981	0.0125	0.0120	
18 2-Amino-4,6-dinitrotoluene	1	11.635	11.623	0.012	2123	0.0126	0.0105	M
19 2,6-Dinitrotoluene	1	11.795	11.783	0.012	1508	0.0126	0.0101	M
20 2,4-Dinitrotoluene	1	11.995	11.983	0.012	3142	0.0126	0.0103	
21 o-Nitrotoluene	1	12.828	12.823	0.005	1615	0.0125	0.0120	
22 p-Nitrotoluene	1	13.268	13.256	0.012	1080	0.0125	0.009557	
23 m-Nitrotoluene	1	13.855	13.849	0.006	1403	0.0125	0.009809	
24 PETN	2		14.936			ND	ND	MU

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

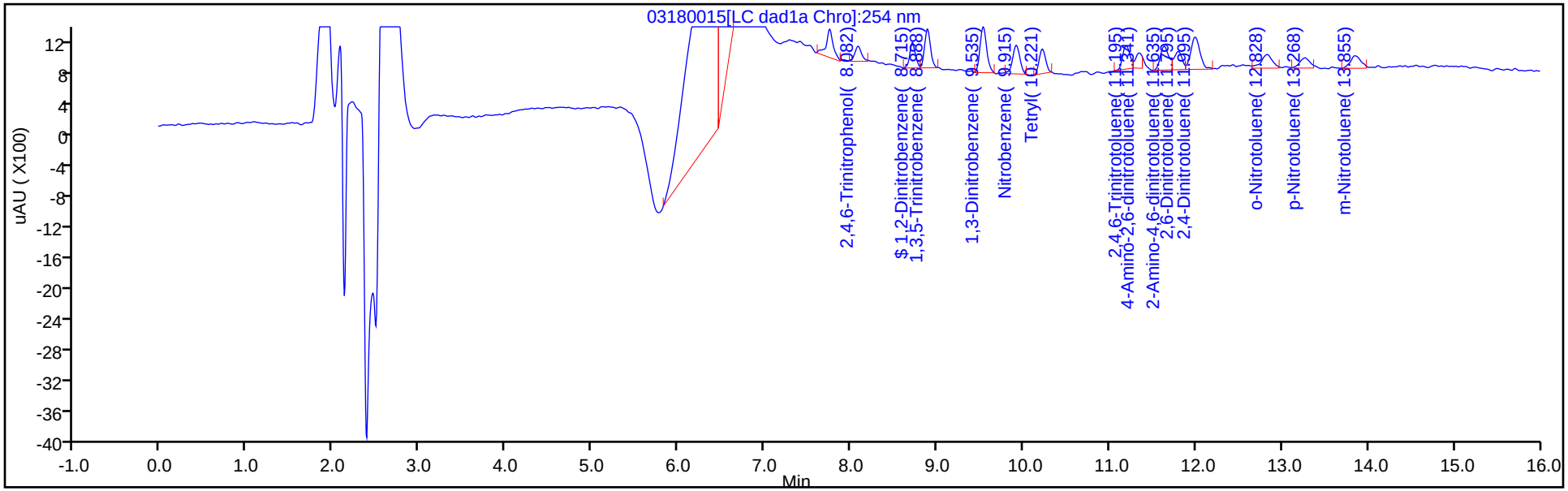
8330IntermStk_00061 Amount Added: 1.25 Units: uL

Report Date: 26-Mar-2020 15:45:46 Chrom Revision: 2.3 11-Mar-2020 18:53:20

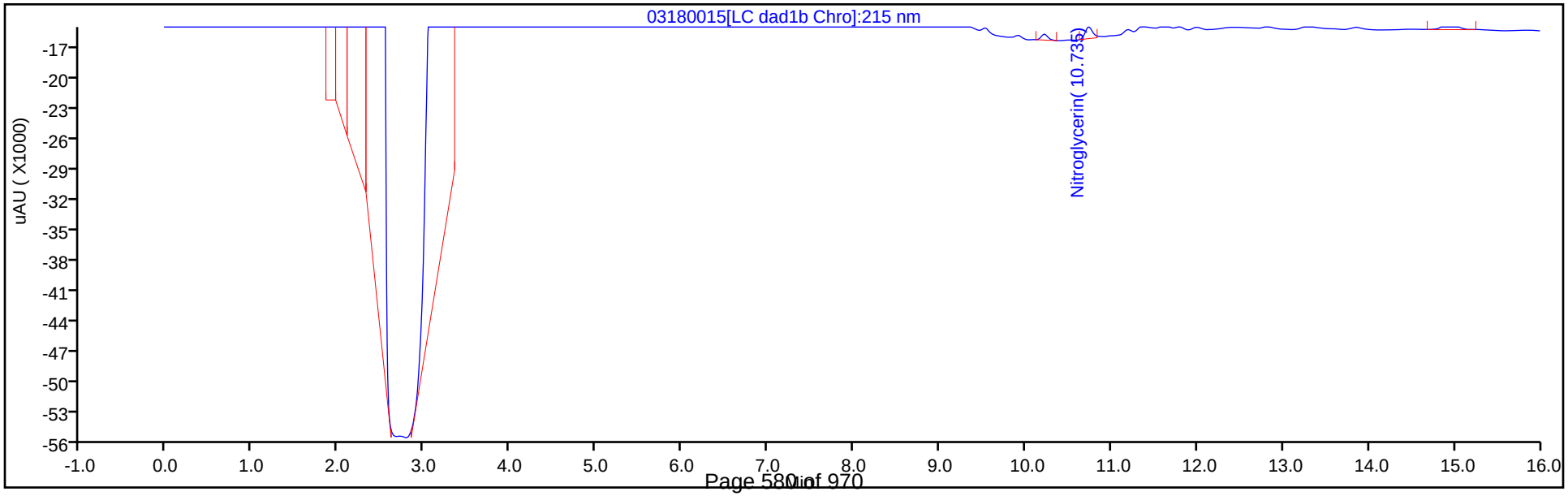
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180015.d				
Injection Date:	18-Mar-2020 14:39:27	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L1			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

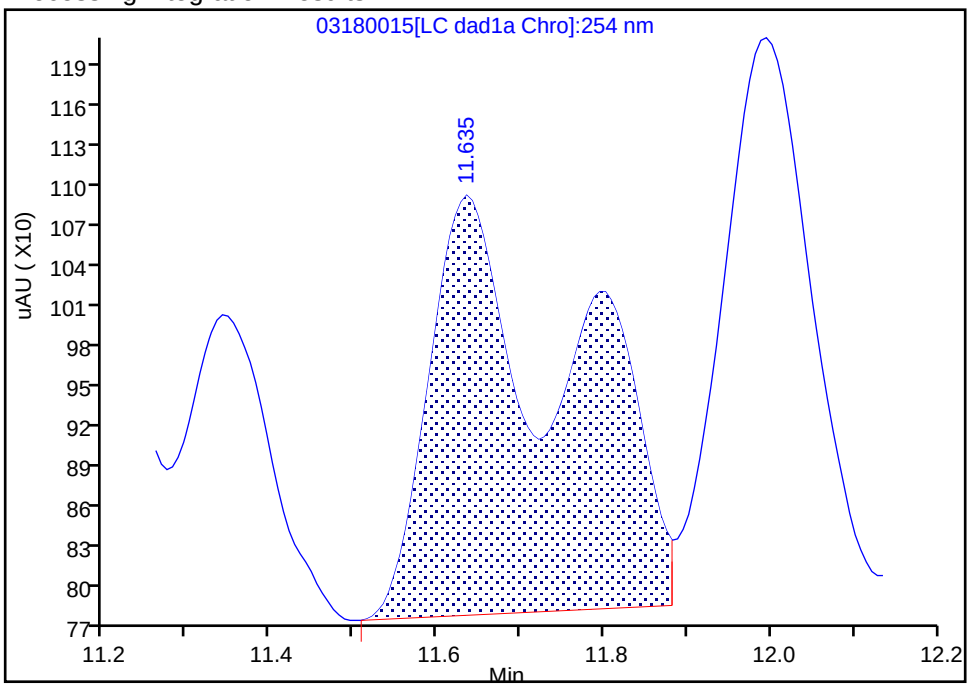
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180015.d				
Injection Date:	18-Mar-2020 14:39:27	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

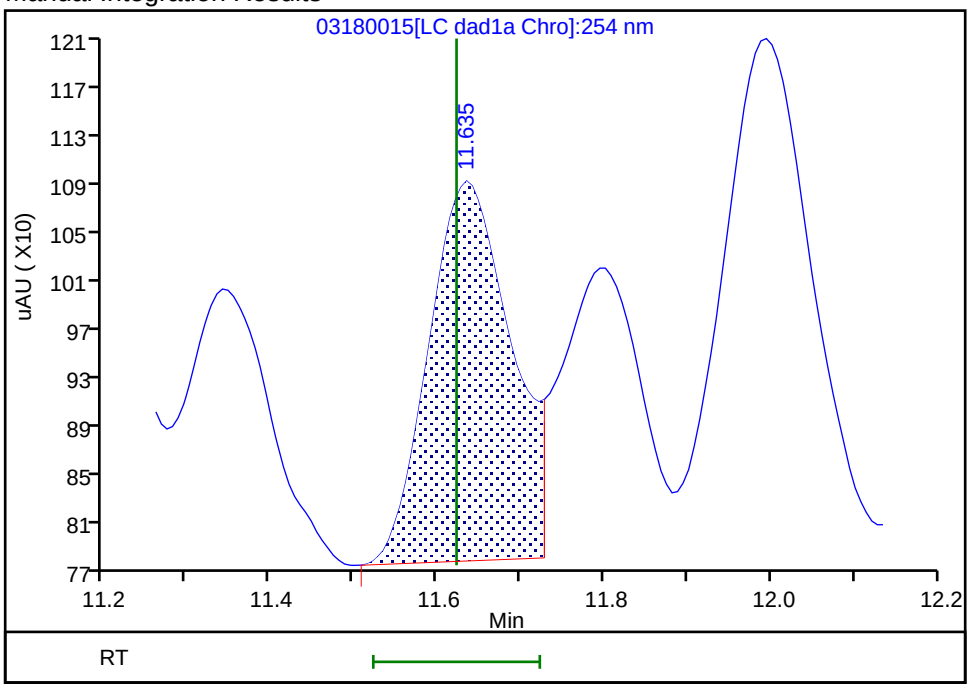
Processing Integration Results

RT: 11.63
Area: 3626
Amount: 0.016777
Amount Units: ug/mL



Manual Integration Results

RT: 11.63
Area: 2123
Amount: 0.010468
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:46:18
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-494886/16 Calibration Date: 05/14/2020 21:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 05140016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	193810	184585		381	400	-4.8	15.0
HMX	Lin2		178815		374	400	-6.5	15.0
RDX	Ave	244360	211628		346	400	-13.4	15.0
Nitrobenzene	Ave	439227	438053		399	400	-0.3	15.0
1,3-Dinitrobenzene	Ave	674189	636963		378	400	-5.5	15.0
Nitroglycerin	Ave	126803	122258		3860	4000	-3.6	15.0
2-Nitrotoluene	Ave	272965	263495		386	400	-3.5	15.0
4-Nitrotoluene	Ave	240881	229805		382	400	-4.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	318460		369	400	-7.8	15.0
3-Nitrotoluene	Ave	298327	286883		385	400	-3.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	446188		384	400	-4.1	15.0
1,3,5-Trinitrobenzene	Ave	472451	495920		420	400	5.0	15.0
2,6-Dinitrotoluene	Lin2		302720		403	400	0.8	15.0
2,4-Dinitrotoluene	Ave	640113	590383		369	400	-7.8	15.0
Tetryl	Ave	368678	347680		377	400	-5.7	15.0
2,4,6-Trinitrotoluene	Lin1		390228		381	400	-4.8	15.0
PETN	Lin1		124707		3650	4000	-8.8	15.0
1,2-Dinitrobenzene	Lin1		250760		355	400	-11.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-494886/16 Calibration Date: 05/14/2020 21:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 05140016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	6.23	6.15	6.45
HMX	6.95	6.84	7.14
RDX	9.12	9.02	9.32
Nitrobenzene	12.05	11.96	12.26
1,3-Dinitrobenzene	15.50	15.40	15.70
Nitroglycerin	15.81	15.70	16.00
2-Nitrotoluene	16.49	16.38	16.68
4-Nitrotoluene	16.77	16.67	16.97
4-Amino-2,6-dinitrotoluene	17.10	17.00	17.30
3-Nitrotoluene	17.69	17.60	17.90
2-Amino-4,6-dinitrotoluene	17.99	17.90	18.20
1,3,5-Trinitrobenzene	18.83	18.74	19.04
2,6-Dinitrotoluene	19.75	19.66	19.96
2,4-Dinitrotoluene	20.24	20.14	20.44
Tetryl	23.51	23.40	23.70
2,4,6-Trinitrotoluene	24.61	24.50	24.80
PETN	25.25	25.13	25.43
1,2-Dinitrobenzene	12.99	12.89	13.19

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140016.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 14-May-2020 21:31:26 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 280-0091518-016
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist:

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:59 Calib Date: 14-May-2020 20:56:30
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140015.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:55:09

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	4.307	4.366	-0.059	179307	0.4000	0.4177	M
2 2,4-diamino-6-nitrotoluene	1	4.840	4.880	-0.040	97723	0.4000	0.3877	M
5 2,4,6-Trinitrophenol	1	6.234	6.300	-0.066	73834	0.4000	0.3810	a
6 HMX	1	6.954	6.986	-0.032	71526	0.4000	0.3740	
8 RDX	1	9.120	9.173	-0.053	84651	0.4000	0.3464	
9 Nitrobenzene	1	12.053	12.106	-0.053	175221	0.4000	0.3989	
$ 10 1,2-Dinitrobenzene	1	12.987	13.040	-0.053	100304	0.4000	0.3552	
11 3,5-Dinitroaniline	1	14.827	14.886	-0.059	185478	0.4000	0.3767	
12 1,3-Dinitrobenzene	1	15.500	15.553	-0.053	254785	0.4000	0.3779	
13 Nitroglycerin	2	15.807	15.853	-0.046	489033	4.00	3.86	
14 o-Nitrotoluene	1	16.493	16.533	-0.040	105398	0.4000	0.3861	M
15 p-Nitrotoluene	1	16.767	16.820	-0.053	91922	0.4000	0.3816	M
16 4-Amino-2,6-dinitrotoluene	1	17.100	17.146	-0.046	127384	0.4000	0.3690	M
17 m-Nitrotoluene	1	17.693	17.753	-0.060	114753	0.4000	0.3847	M
18 2-Amino-4,6-dinitrotoluene	1	17.987	18.046	-0.059	178475	0.4000	0.3836	M
19 1,3,5-Trinitrobenzene	1	18.833	18.886	-0.053	198368	0.4000	0.4199	M
20 2,6-Dinitrotoluene	1	19.753	19.806	-0.053	121088	0.4000	0.4033	M
21 2,4-Dinitrotoluene	1	20.240	20.293	-0.053	236153	0.4000	0.3689	M
22 Tetryl	1	23.507	23.553	-0.046	139072	0.4000	0.3772	
23 2,4,6-Trinitrotoluene	1	24.607	24.653	-0.046	156091	0.4000	0.3808	
24 PETN	2	25.254	25.280	-0.026	498829	4.00	3.65	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

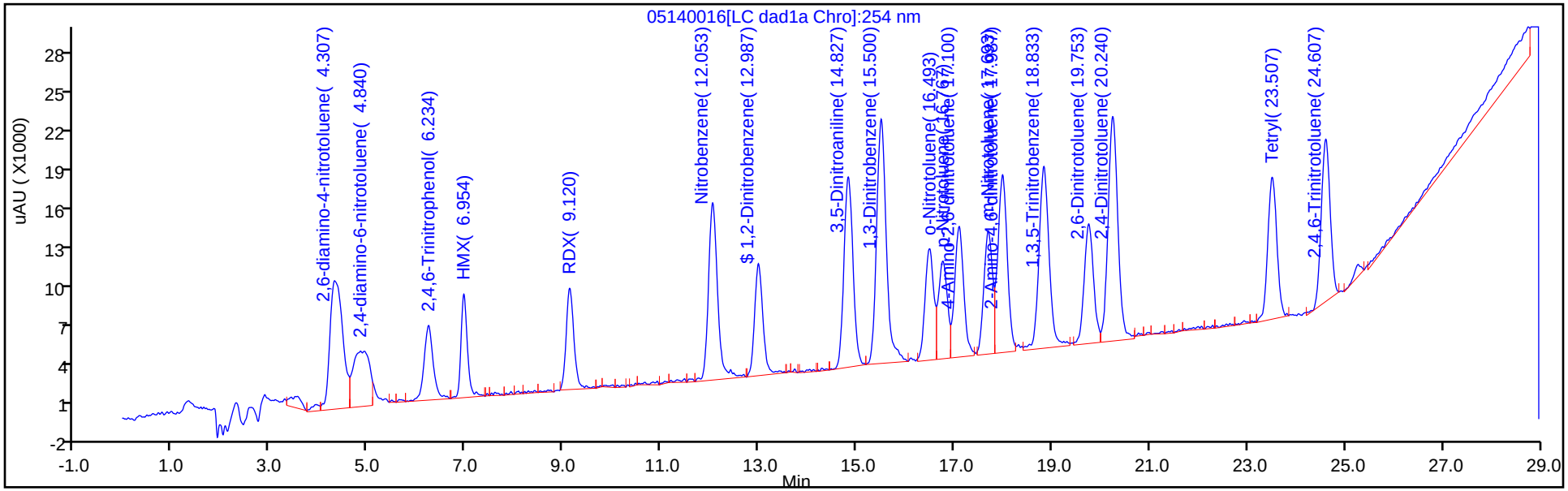
8330Surrogate_00114	Amount Added:	40.00	Units: uL
3,5-DNA LCS_00036	Amount Added:	40.00	Units: uL
8330 LCS_00098	Amount Added:	40.00	Units: uL
8330DiaminLCS_00038	Amount Added:	40.00	Units: uL

Report Date: 15-May-2020 12:01:01 Chrom Revision: 2.3 05-May-2020 17:48:18

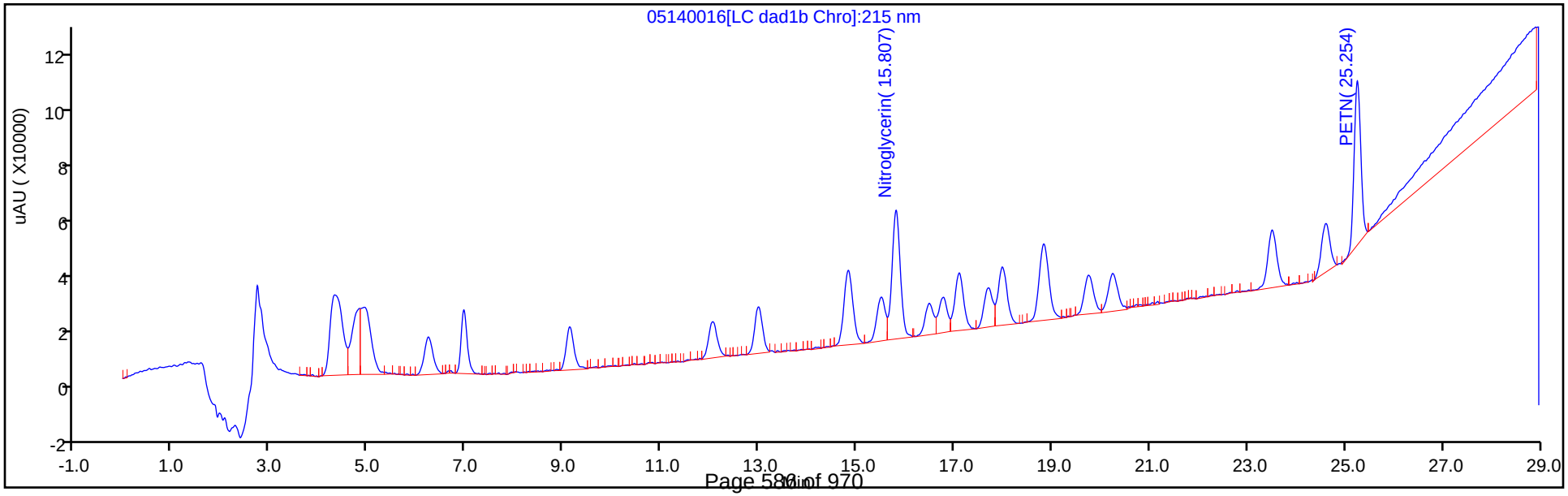
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	ICV FULL			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

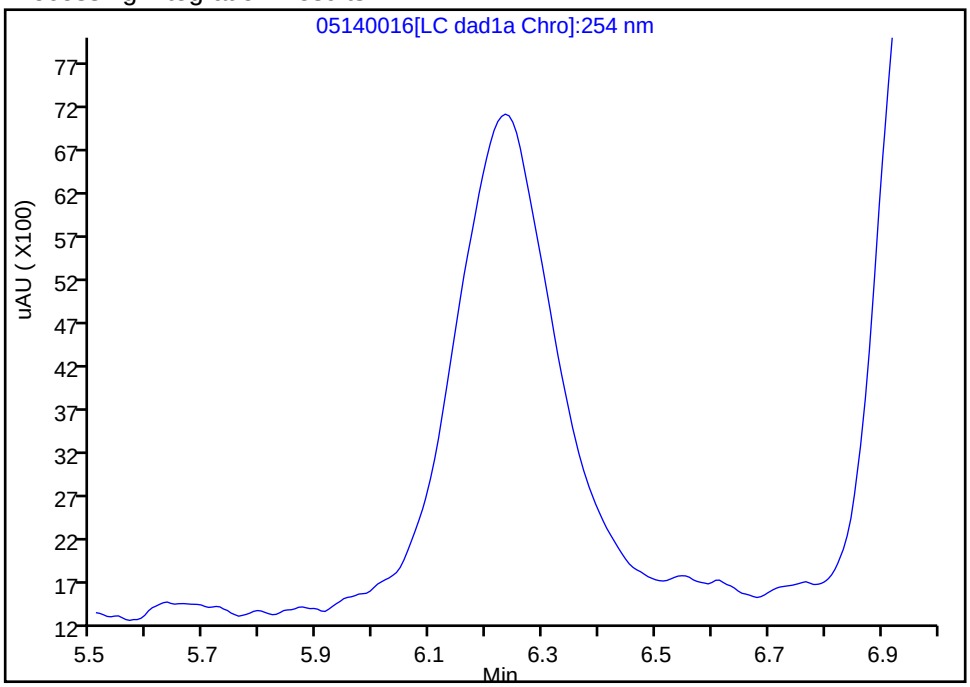
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

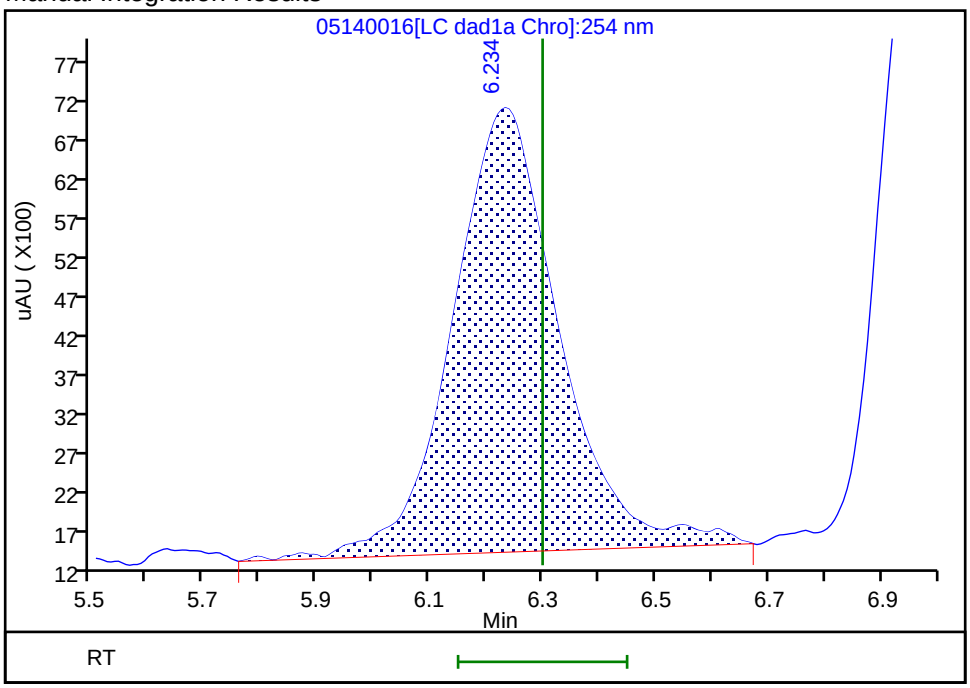
Not Detected
Expected RT: 6.30

Processing Integration Results



RT: 6.23
Area: 73834
Amount: 0.380960
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:14:55
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

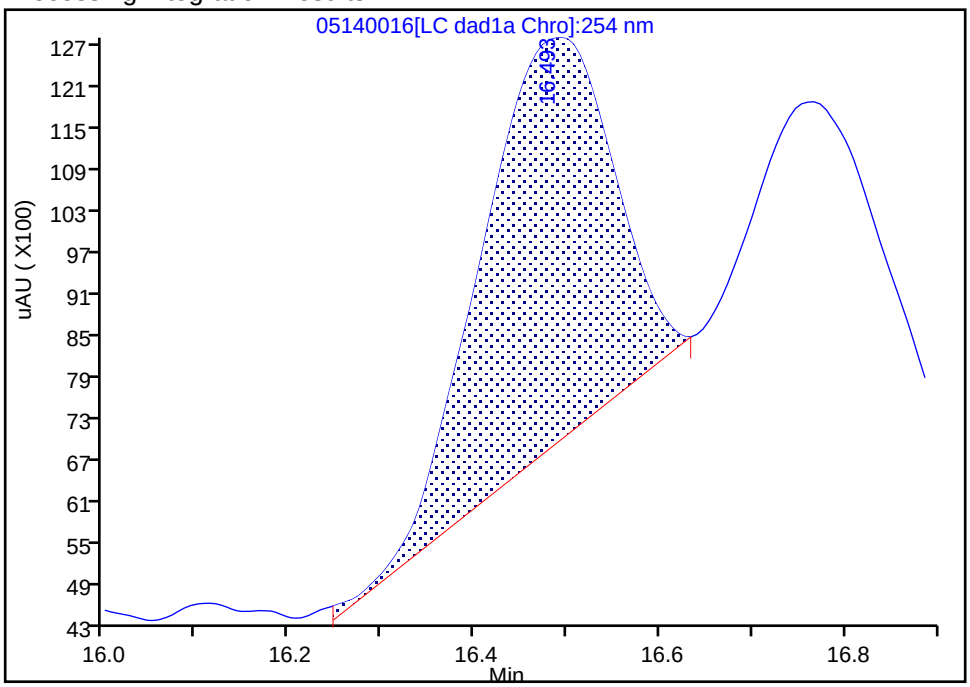
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

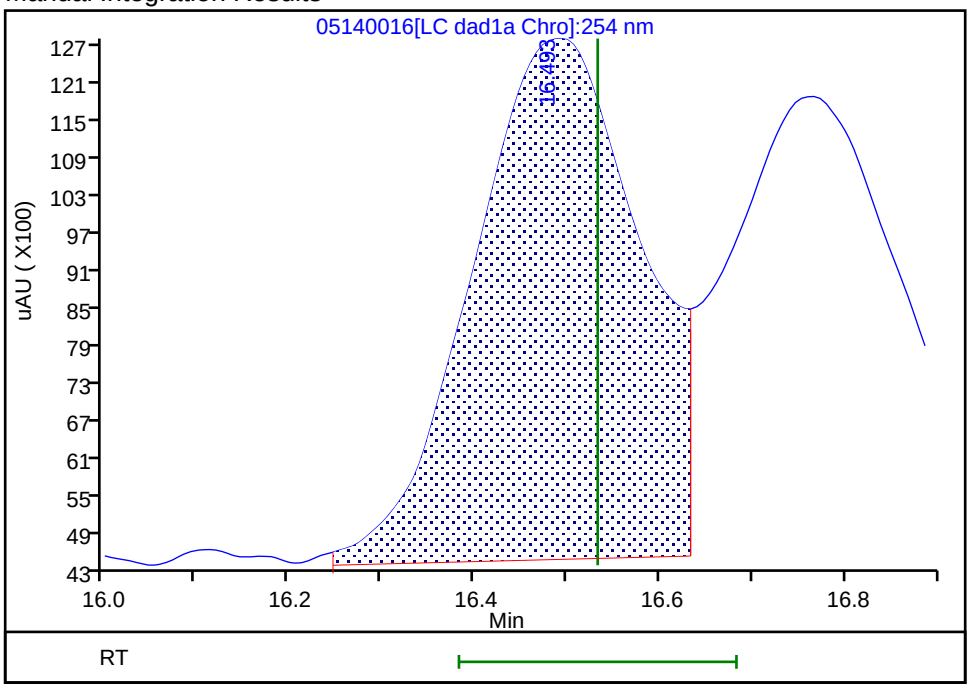
Processing Integration Results

RT: 16.49
Area: 59335
Amount: 0.217373
Amount Units: ug/ml



Manual Integration Results

RT: 16.49
Area: 105398
Amount: 0.386123
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

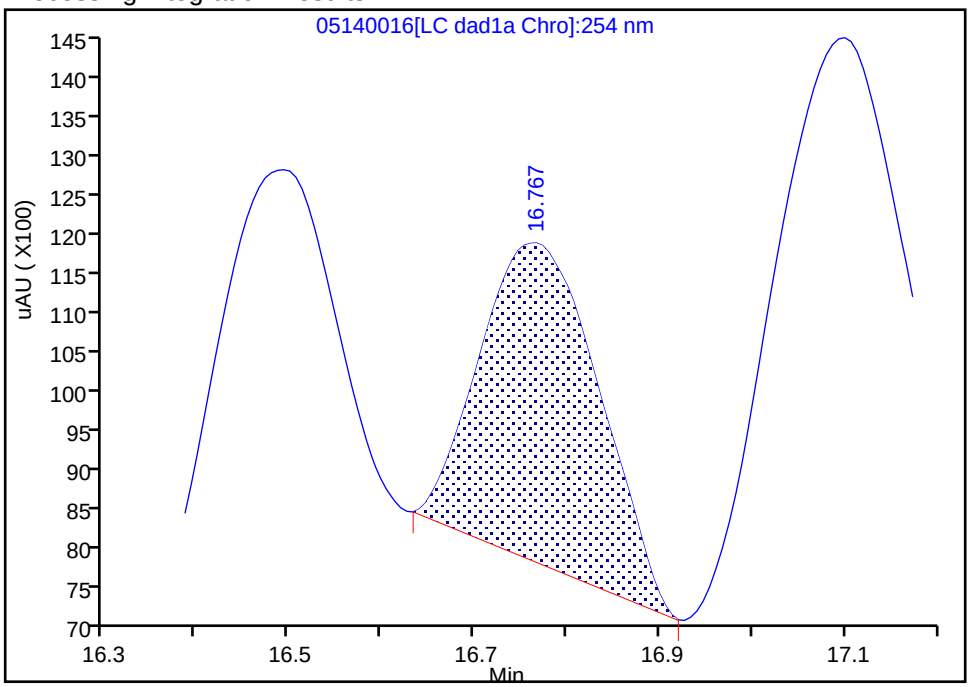
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

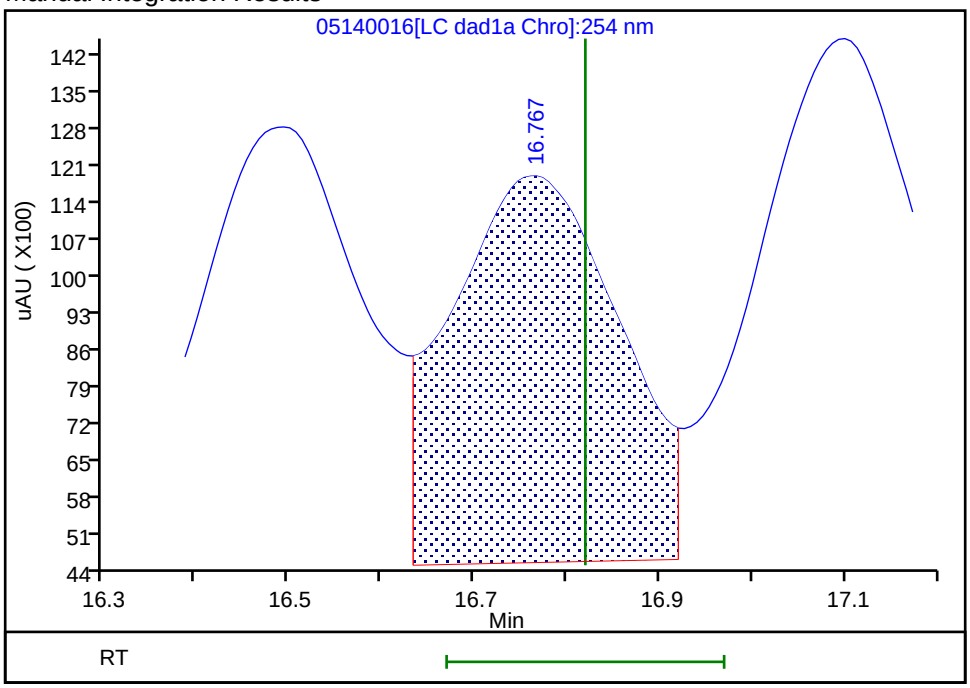
Processing Integration Results

RT: 16.77
Area: 36452
Amount: 0.151328
Amount Units: ug/ml



Manual Integration Results

RT: 16.77
Area: 91922
Amount: 0.381607
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

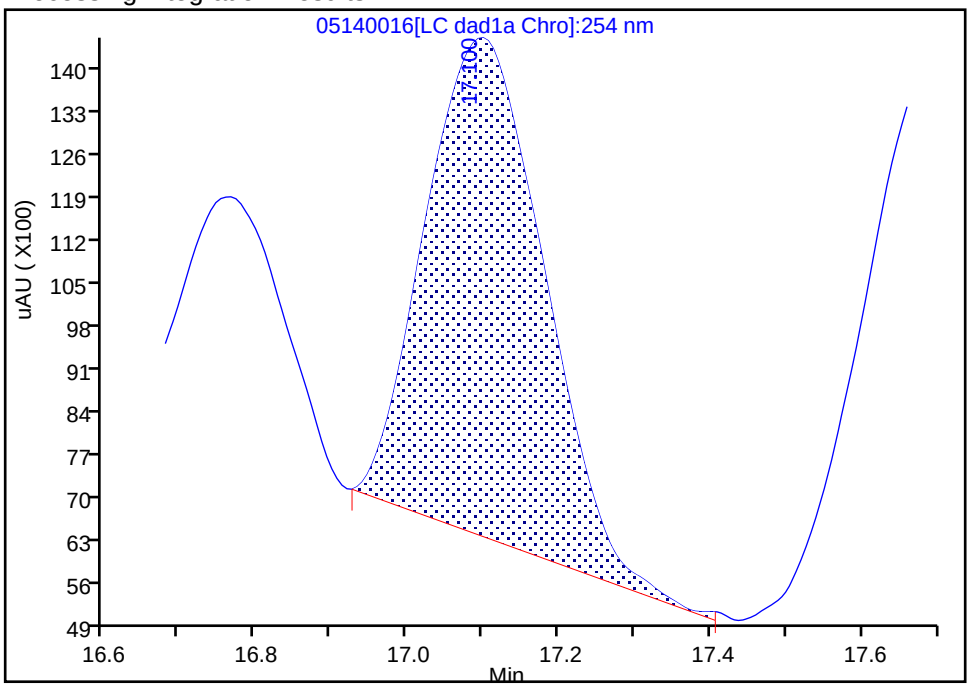
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

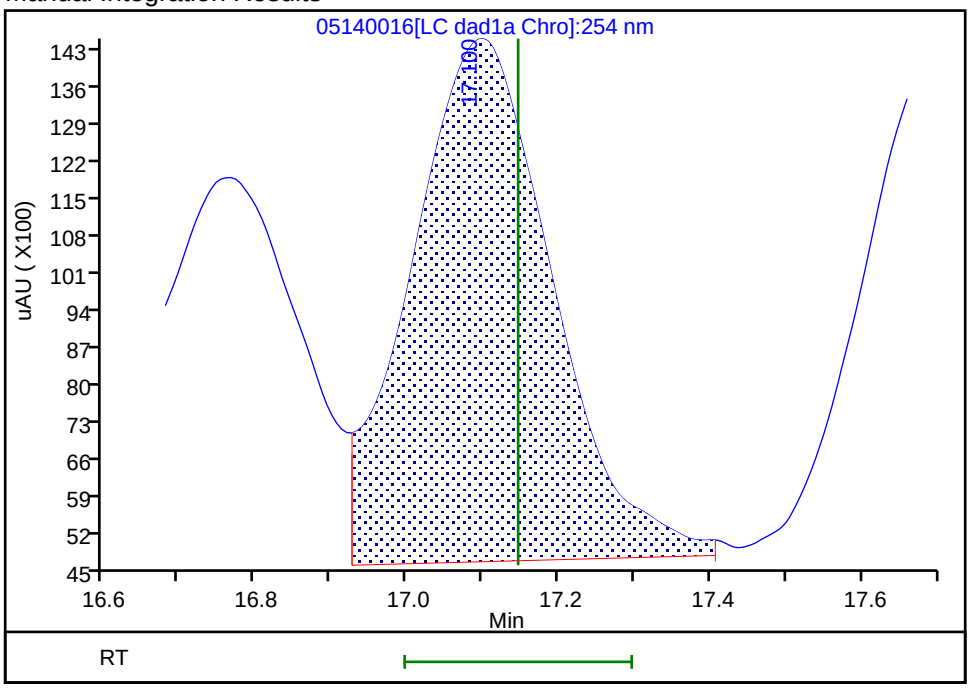
Processing Integration Results

RT: 17.10
Area: 89570
Amount: 0.259447
Amount Units: ug/ml



Manual Integration Results

RT: 17.10
Area: 127384
Amount: 0.368978
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

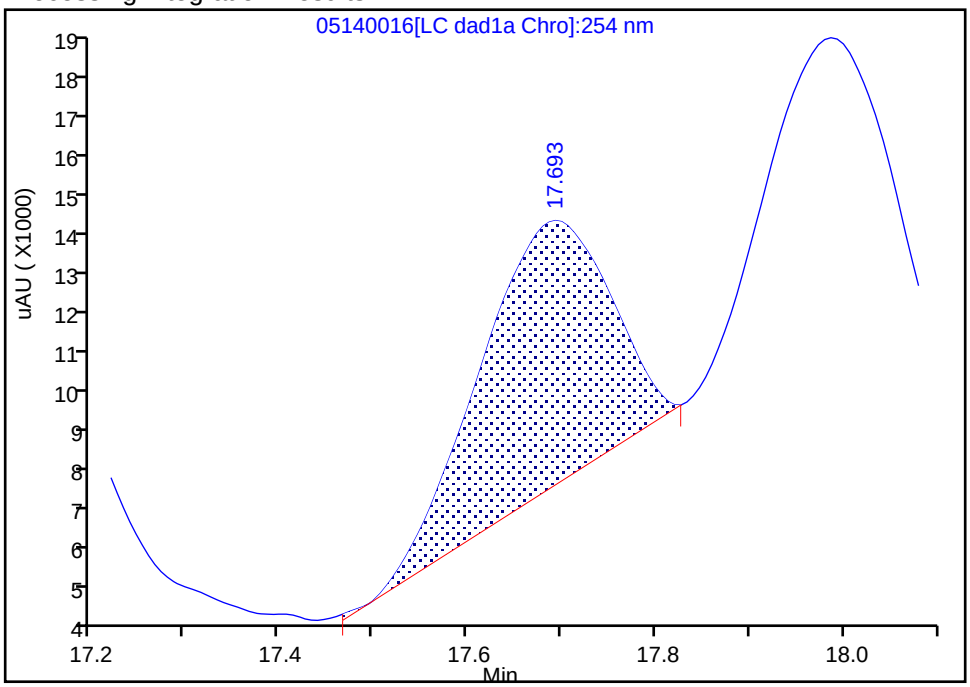
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

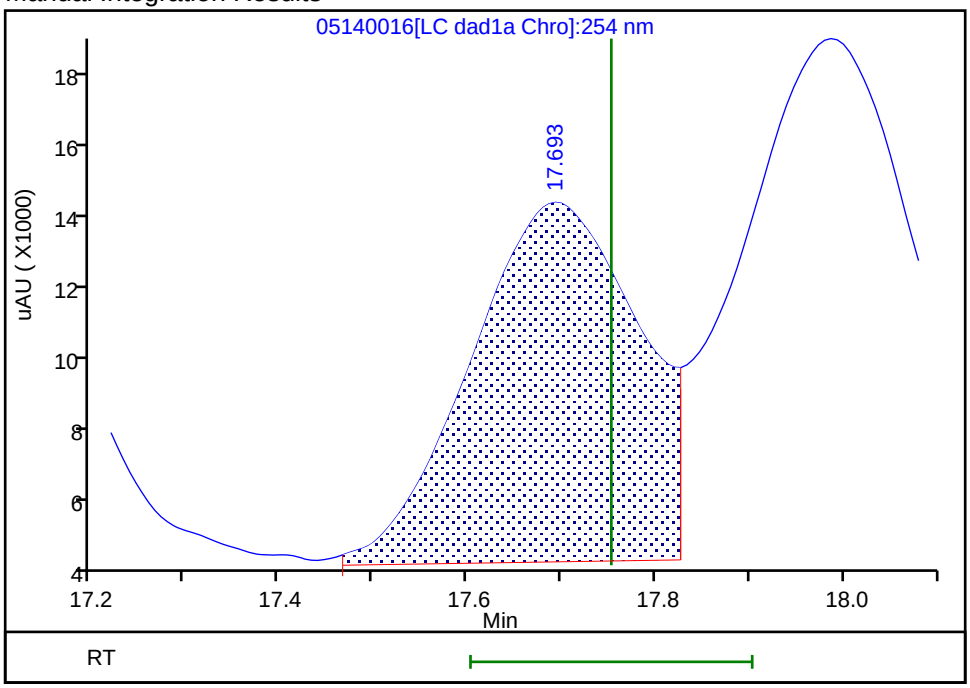
Processing Integration Results

RT: 17.69
Area: 60008
Amount: 0.201149
Amount Units: ug/ml



Manual Integration Results

RT: 17.69
Area: 114753
Amount: 0.384655
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

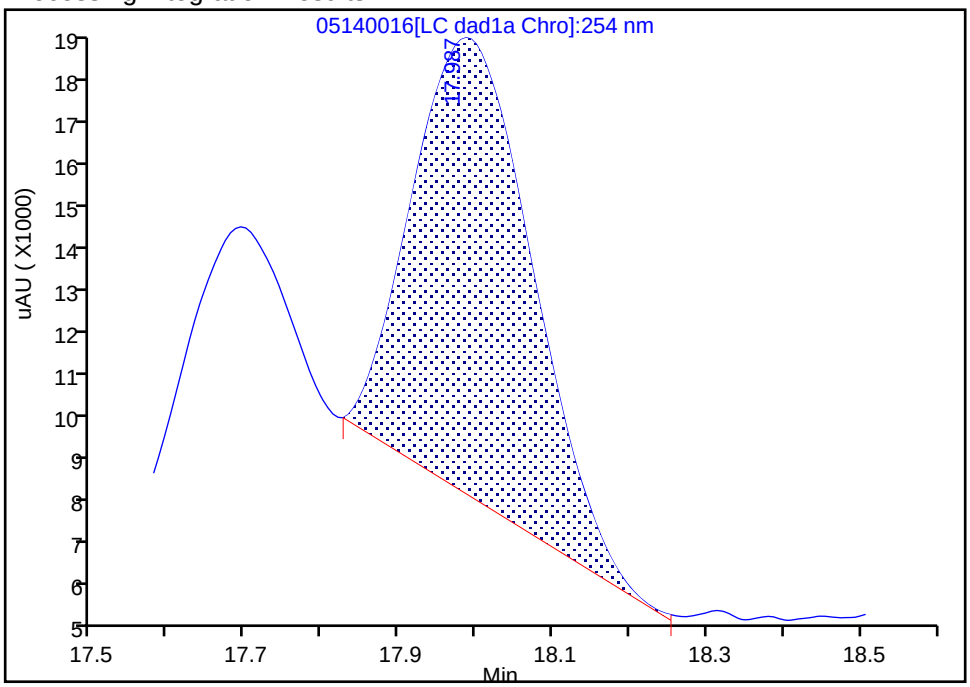
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

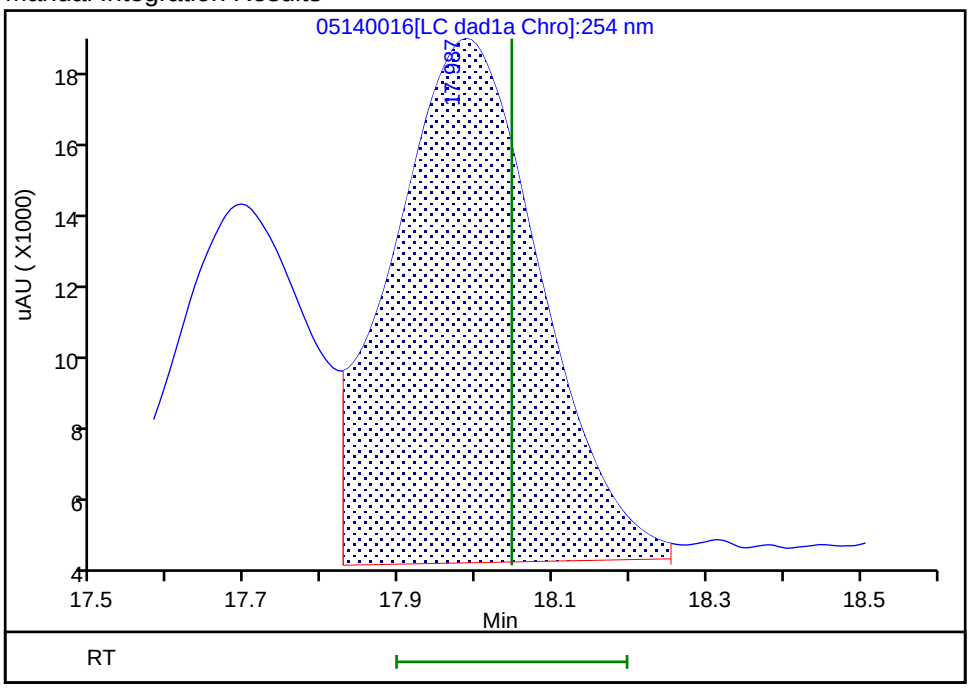
Processing Integration Results

RT: 17.99
Area: 111749
Amount: 0.240211
Amount Units: ug/ml



Manual Integration Results

RT: 17.99
Area: 178475
Amount: 0.383643
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

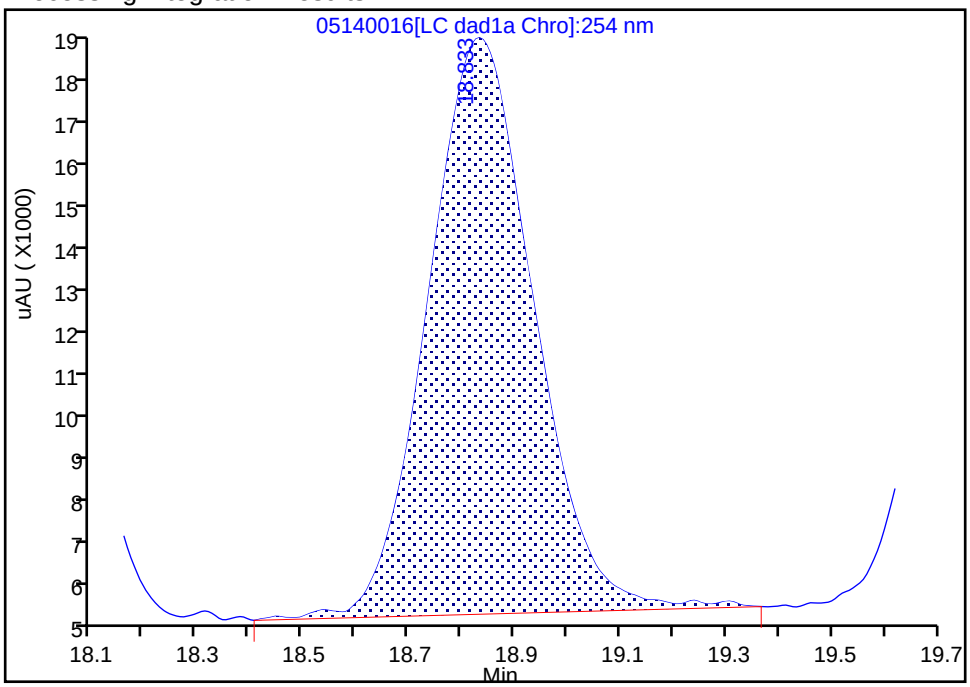
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

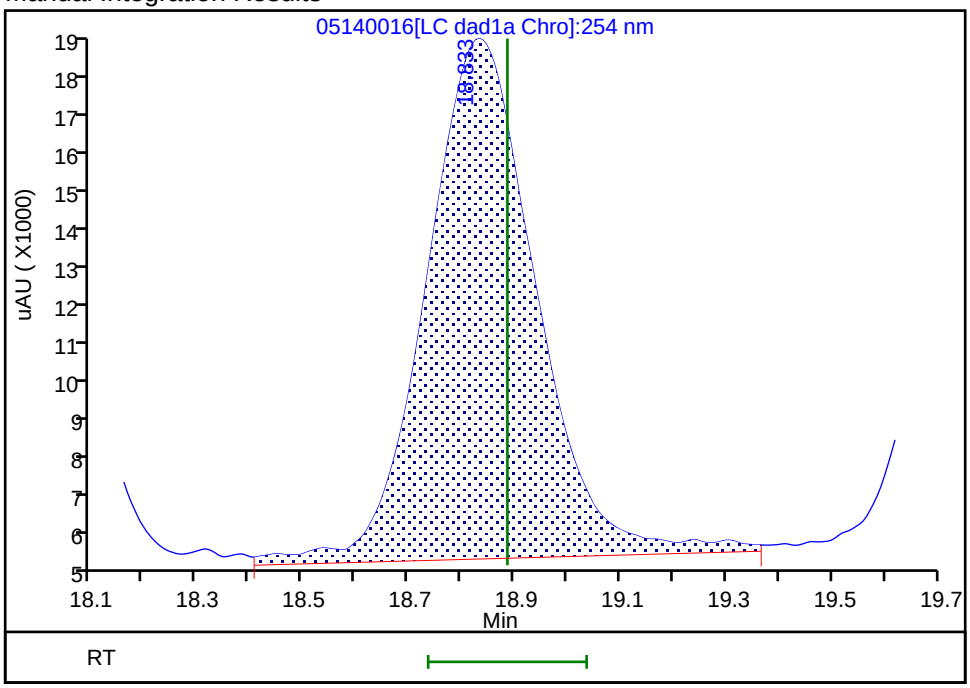
Processing Integration Results

RT: 18.83
Area: 187655
Amount: 0.397195
Amount Units: ug/ml



Manual Integration Results

RT: 18.83
Area: 198368
Amount: 0.419870
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

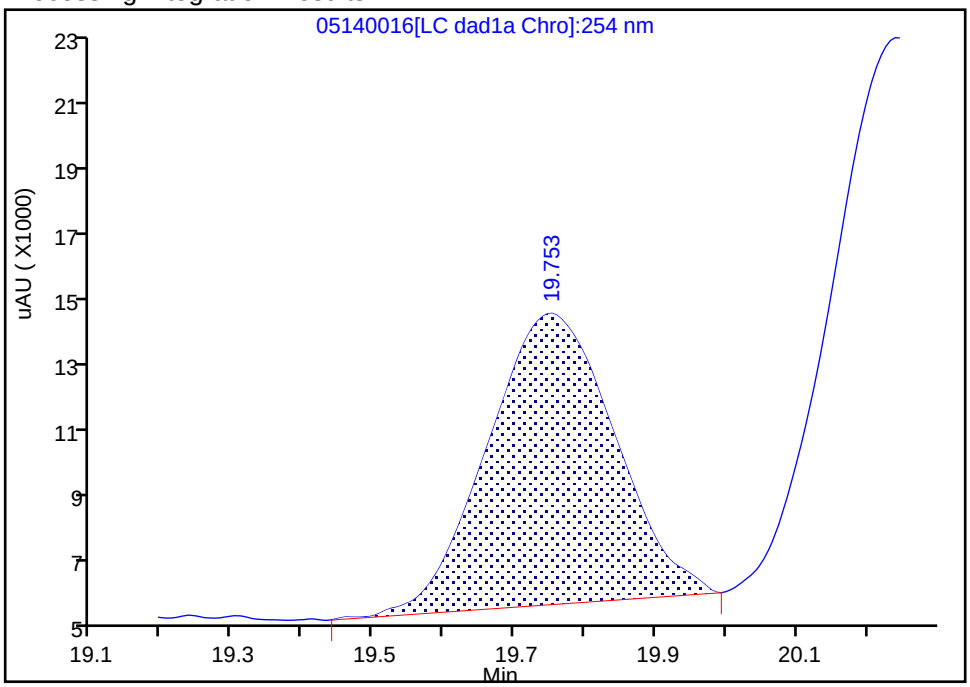
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

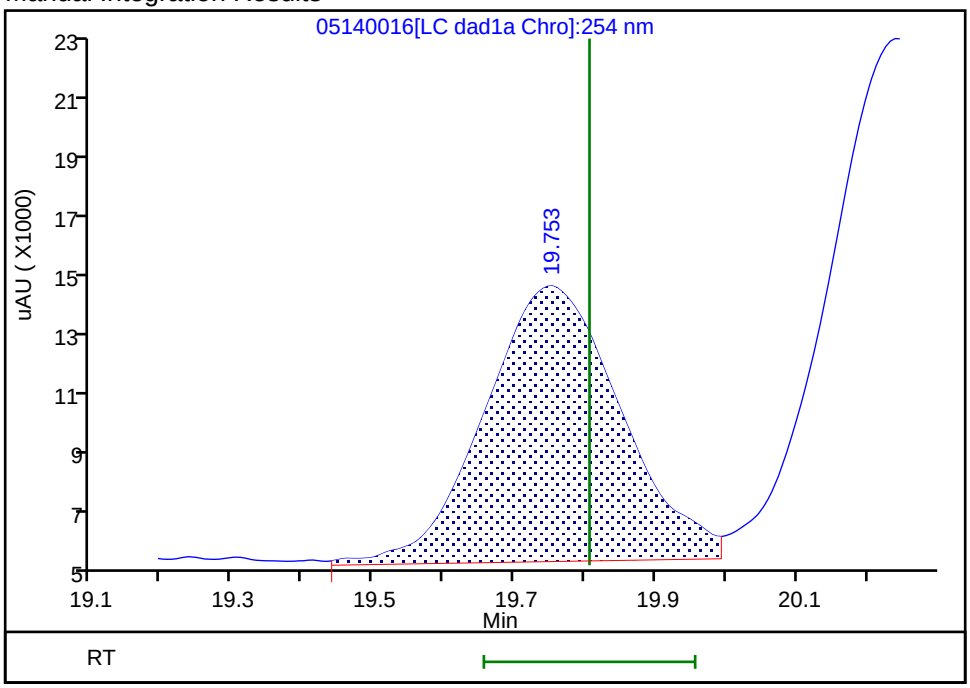
Processing Integration Results

RT: 19.75
Area: 106845
Amount: 0.315968
Amount Units: ug/ml



Manual Integration Results

RT: 19.75
Area: 121088
Amount: 0.403336
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

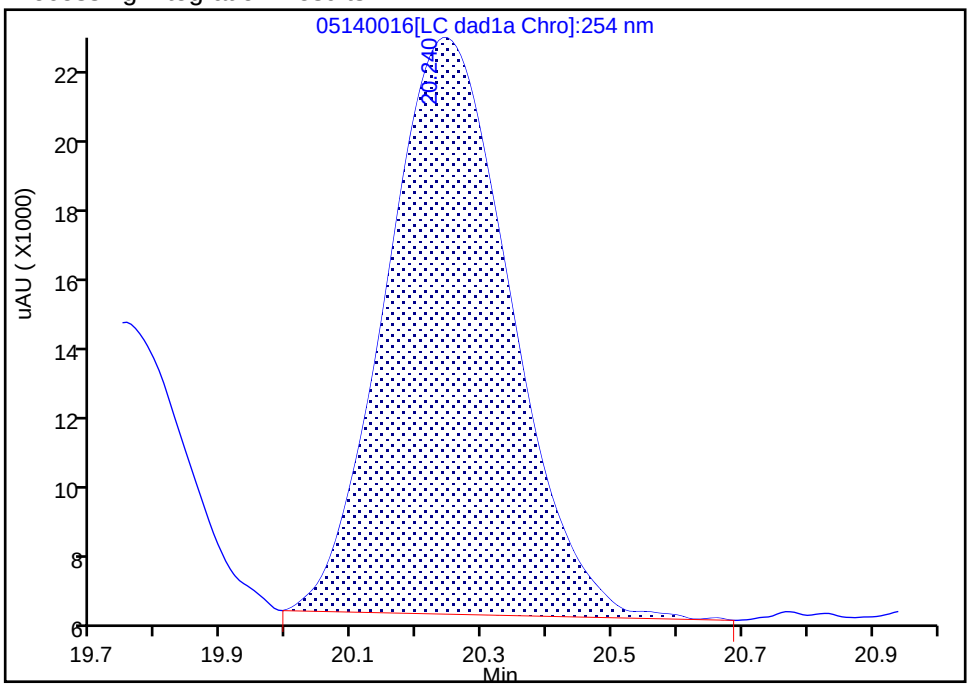
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

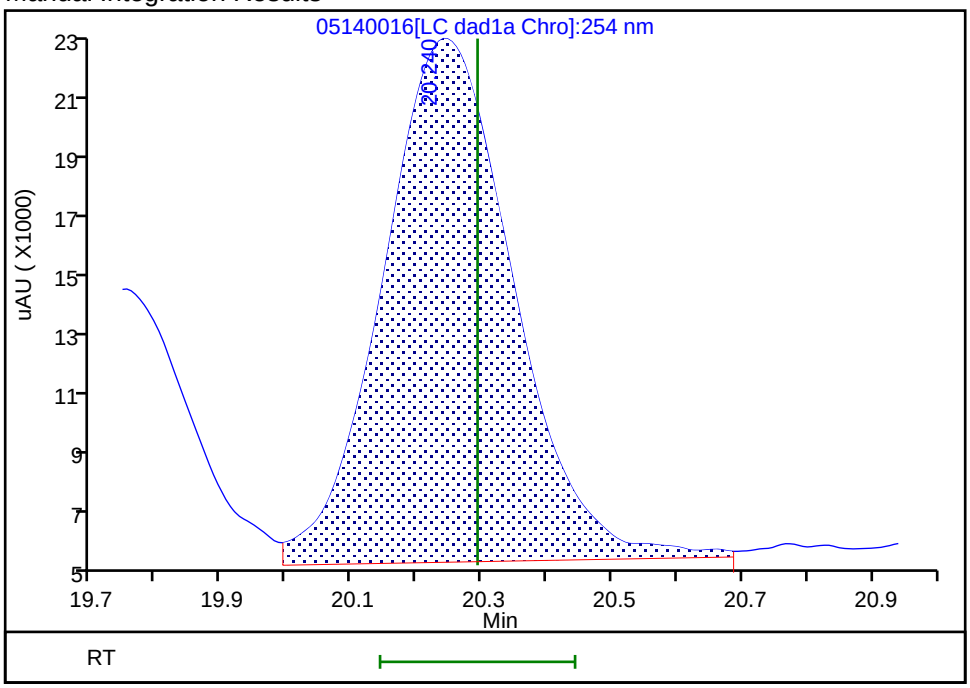
Processing Integration Results

RT: 20.24
Area: 217350
Amount: 0.339549
Amount Units: ug/ml



Manual Integration Results

RT: 20.24
Area: 236153
Amount: 0.368924
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-494886/26 Calibration Date: 05/15/2020 03:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 05140026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	391496		360	400	-10.2	15.0
DNX	Ave	321206	289486		361	400	-9.9	15.0
MNX	Lin2		268209		449	467	-3.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-494886/26 Calibration Date: 05/15/2020 03:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 05140026.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.41	5.27	5.57
DNX	6.22	6.08	6.38
MNX	7.73	7.59	7.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140026.D				
Lims ID:	ICV DMT				
Client ID:					
Sample Type:	ICV				
Inject. Date:	15-May-2020 03:21:17	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	ICV DMT				
Misc. Info.:	280-0091518-026				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:					
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:05	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

First Level Reviewer: zhangji Date: 15-May-2020 11:38:34

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.408	5.417	-0.009	156755	0.4004	0.3597	
4 DNX	1	6.215	6.231	-0.016	115910	0.4004	0.3609	
7 MNX	1	7.728	7.744	-0.016	125200	0.4668	0.4488	

Reagents:

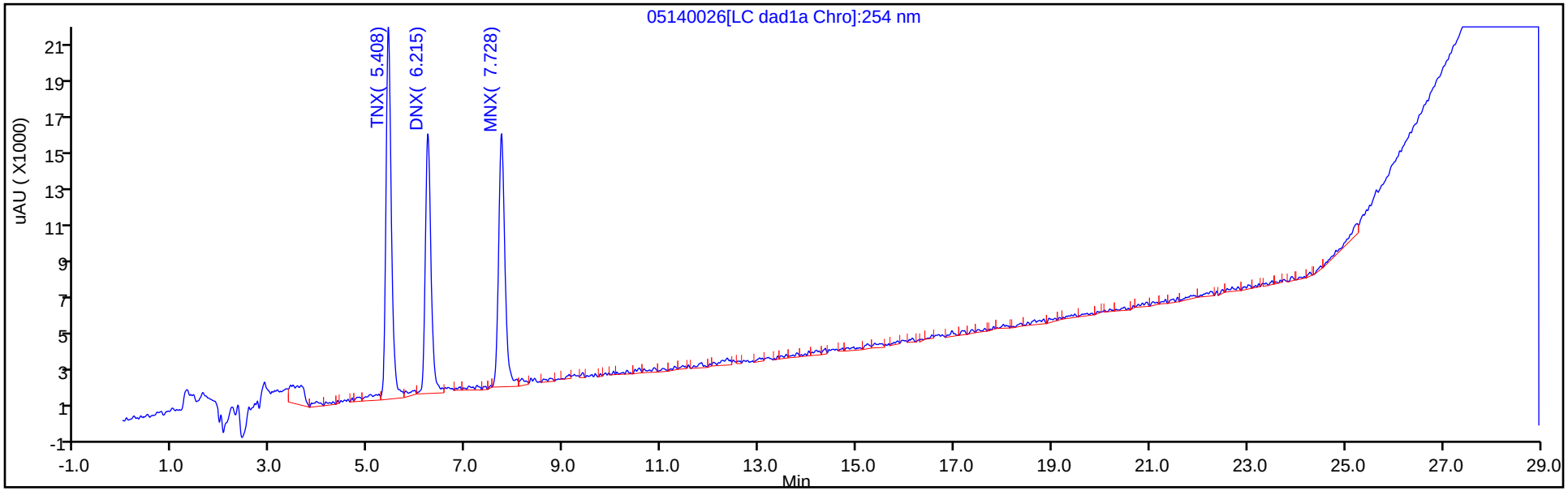
8330_OP_DMT_00008 Amount Added: 40.00 Units: uL

Report Date: 15-May-2020 12:01:06 Chrom Revision: 2.3 05-May-2020 17:48:18

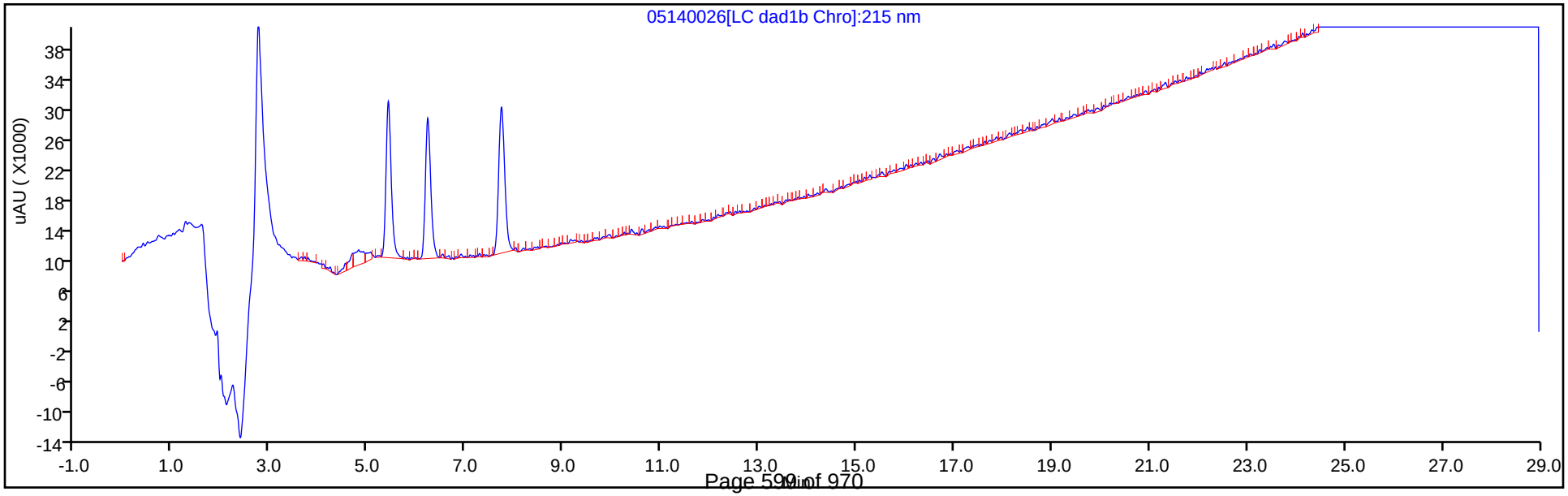
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140026.d				
Injection Date:	15-May-2020 03:21:17	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	ICV DMT			Worklist Smp#:	26
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/16 Calibration Date: 06/12/2020 22:33

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06120016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		186708		234	250	-6.6	15.0
Picric acid	Ave	193810	187528		242	250	-3.2	15.0
RDX	Ave	244360	245392		251	250	0.4	15.0
Nitrobenzene	Ave	439227	425582		243	251	-3.1	15.0
1,3-Dinitrobenzene	Ave	674189	661218		246	251	-1.9	15.0
Nitroglycerin	Ave	126803	136483		2690	2500	7.6	15.0
2-Nitrotoluene	Ave	272965	257048		235	250	-5.8	15.0
4-Nitrotoluene	Ave	240881	234906		244	251	-2.5	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	320711		232	250	-7.1	15.0
3-Nitrotoluene	Ave	298327	301379		253	250	1.0	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	459522		248	251	-1.2	15.0
1,3,5-Trinitrobenzene	Ave	472451	490555		260	251	3.8	15.0
2,6-Dinitrotoluene	Lin2		317418		260	251	3.6	15.0
2,4-Dinitrotoluene	Ave	640113	631203		248	251	-1.4	15.0
Tetryl	Ave	368678	349924		238	251	-5.1	15.0
2,4,6-Trinitrotoluene	Lin1		397406		241	251	-4.2	15.0
PETN	Lin1		139759		2490	2500	-0.4	15.0
1,2-Dinitrobenzene	Lin1		290136		255	250	2.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/16 Calibration Date: 06/12/2020 22:33

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06120016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.17	7.01	7.31
Picric acid	8.46	8.38	8.68
RDX	9.40	9.24	9.54
Nitrobenzene	12.29	12.13	12.43
1,3-Dinitrobenzene	15.84	15.68	15.98
Nitroglycerin	16.08	15.92	16.22
2-Nitrotoluene	16.76	16.60	16.90
4-Nitrotoluene	17.05	16.89	17.19
4-Amino-2,6-dinitrotoluene	17.50	17.34	17.64
3-Nitrotoluene	17.98	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.44	18.28	18.58
1,3,5-Trinitrobenzene	19.17	19.00	19.30
2,6-Dinitrotoluene	20.10	19.93	20.23
2,4-Dinitrotoluene	20.61	20.45	20.75
Tetryl	23.92	23.76	24.06
2,4,6-Trinitrotoluene	24.92	24.76	25.06
PETN	25.46	25.30	25.60
1,2-Dinitrobenzene	13.30	13.14	13.44

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120016.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2020 22:33:00 ALS Bottle#: 7 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092371-016
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:59:59 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 18:59:54

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	4.403	4.394	0.009	106302	0.2500	0.2476	
2 2,4-diamino-6-nitrotoluene	1	5.016	5.008	0.008	67100	0.2500	0.2589	
6 HMX	1	7.170	7.161	0.009	46677	0.2500	0.2336	
5 2,4,6-Trinitrophenol	1	8.463	8.528	-0.065	46882	0.2500	0.2419	
8 RDX	1	9.396	9.387	0.009	61348	0.2500	0.2511	
9 Nitrobenzene	1	12.290	12.281	0.009	106821	0.2510	0.2432	
$ 10 1,2-Dinitrobenzene	1	13.303	13.294	0.009	72534	0.2500	0.2550	
11 3,5-Dinitroaniline	1	15.243	15.241	0.002	123073	0.2500	0.2480	
12 1,3-Dinitrobenzene	1	15.836	15.827	0.009	165635	0.2505	0.2457	
13 Nitroglycerin	2	16.076	16.067	0.009	341207	2.50	2.69	
14 o-Nitrotoluene	1	16.763	16.747	0.016	64262	0.2500	0.2354	M
15 p-Nitrotoluene	1	17.050	17.041	0.009	58844	0.2505	0.2443	M
16 4-Amino-2,6-dinitrotoluene	1	17.496	17.487	0.009	80258	0.2503	0.2325	M
17 m-Nitrotoluene	1	17.983	17.967	0.016	75420	0.2503	0.2528	M
18 2-Amino-4,6-dinitrotoluene	1	18.436	18.427	0.009	115340	0.2510	0.2479	M
19 1,3,5-Trinitrobenzene	1	19.170	19.154	0.016	122884	0.2505	0.2601	M
20 2,6-Dinitrotoluene	1	20.096	20.081	0.015	79672	0.2510	0.2601	M
21 2,4-Dinitrotoluene	1	20.610	20.601	0.009	158432	0.2510	0.2475	M
22 Tetryl	1	23.916	23.908	0.008	87656	0.2505	0.2378	
23 2,4,6-Trinitrotoluene	1	24.923	24.914	0.009	99749	0.2510	0.2405	
24 PETN	2	25.456	25.448	0.008	349397	2.50	2.49	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

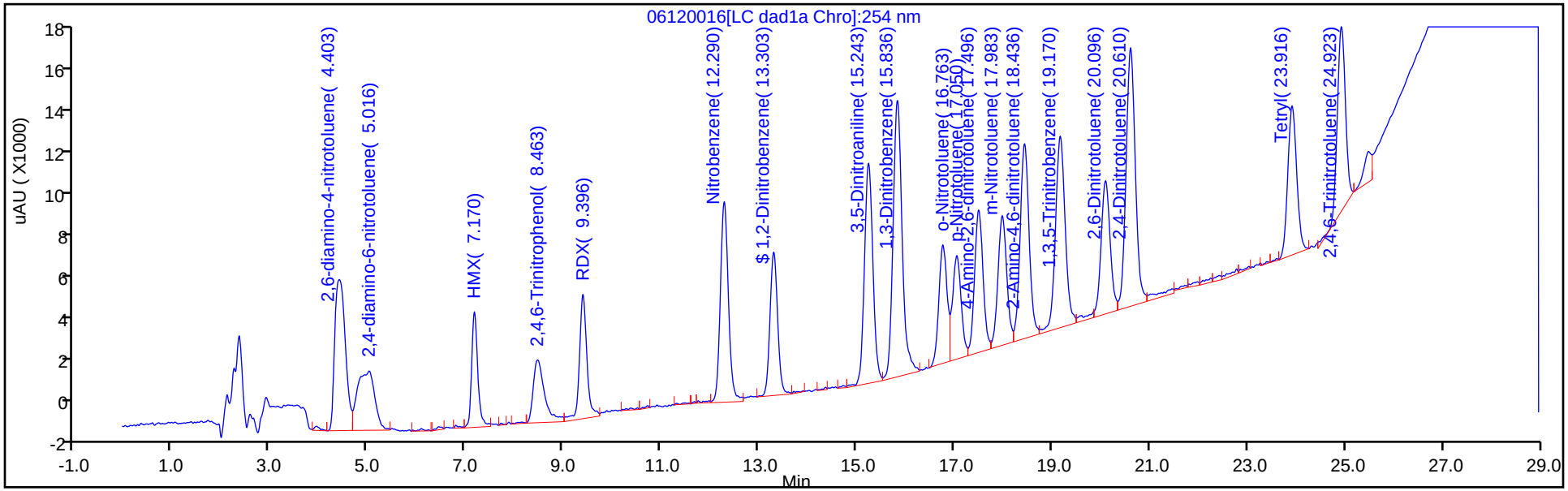
8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

Report Date: 16-Jun-2020 18:59:59 Chrom Revision: 2.3 10-Jun-2020 22:46:48

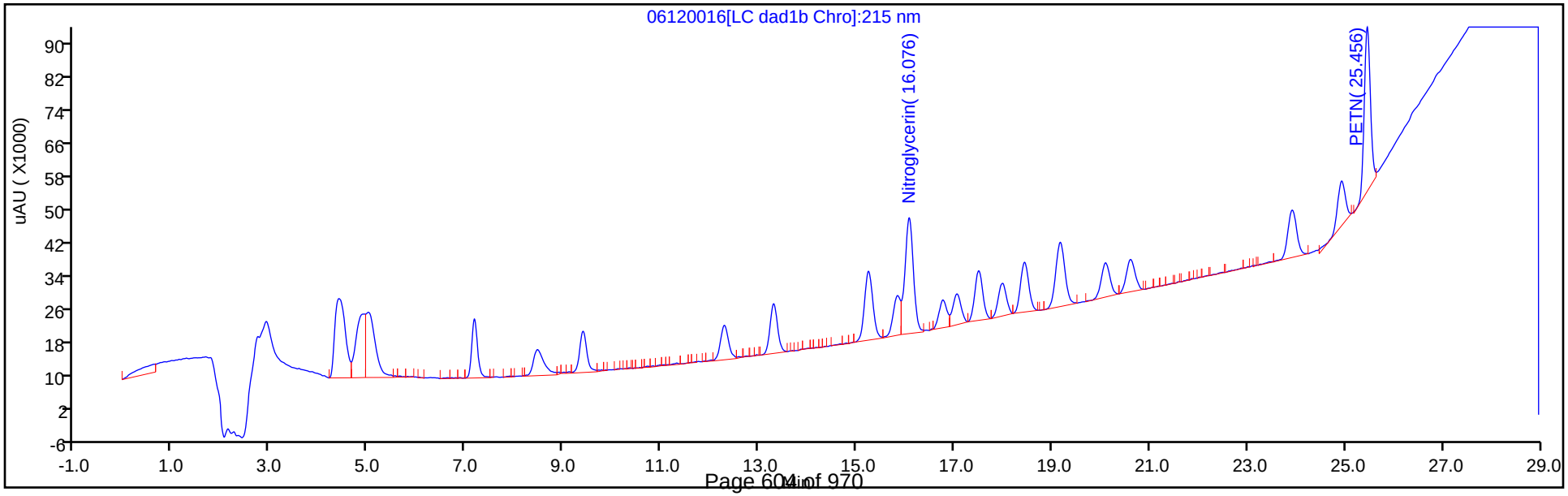
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

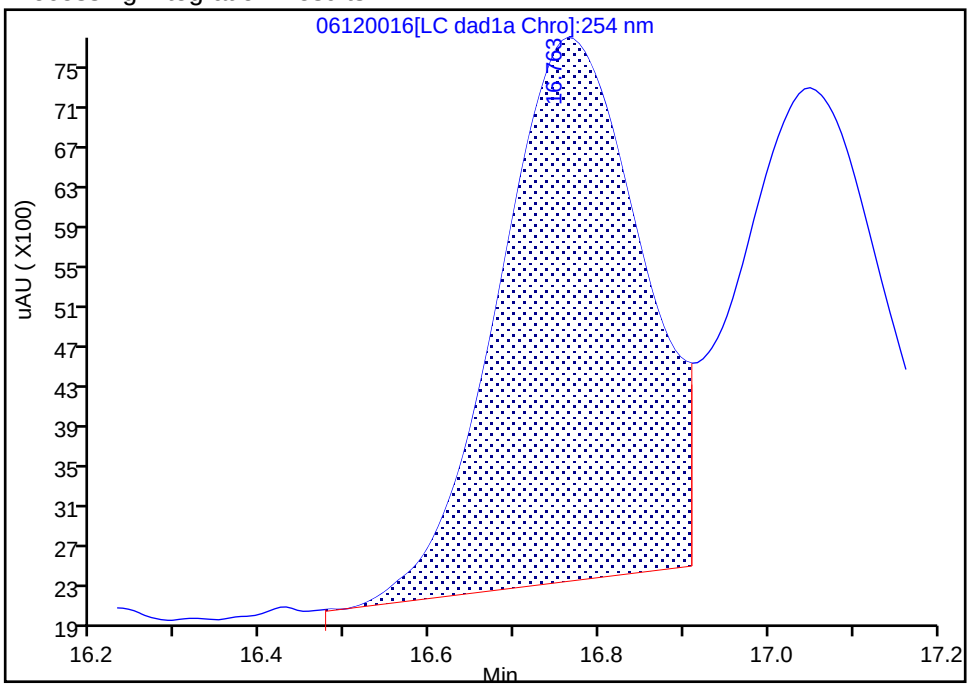
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

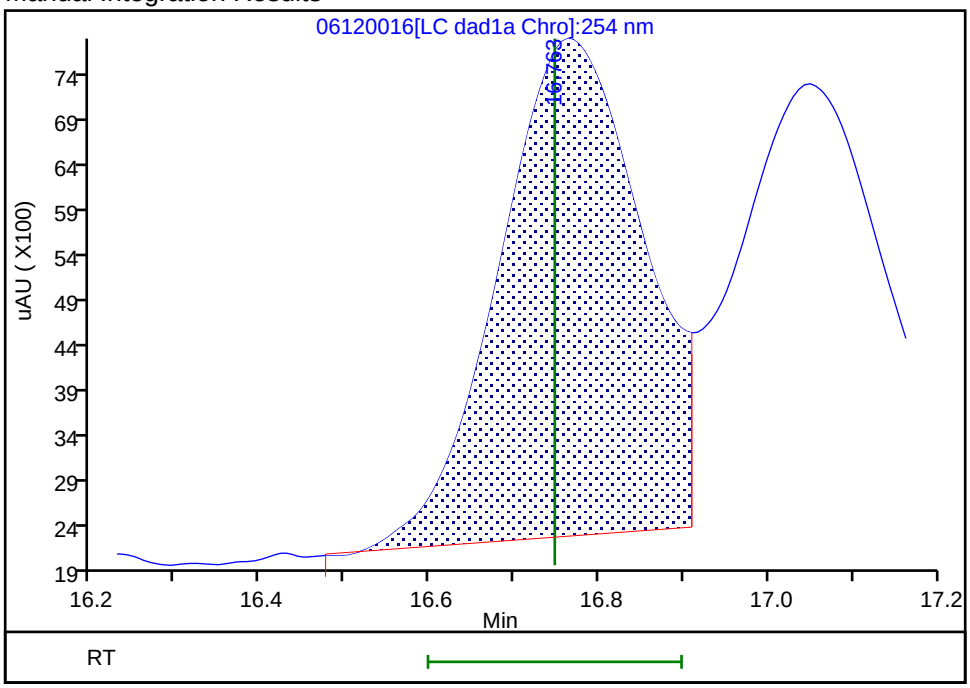
Processing Integration Results

RT: 16.76
Area: 63131
Amount: 0.231279
Amount Units: ug/ml



Manual Integration Results

RT: 16.76
Area: 64262
Amount: 0.235423
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:45

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

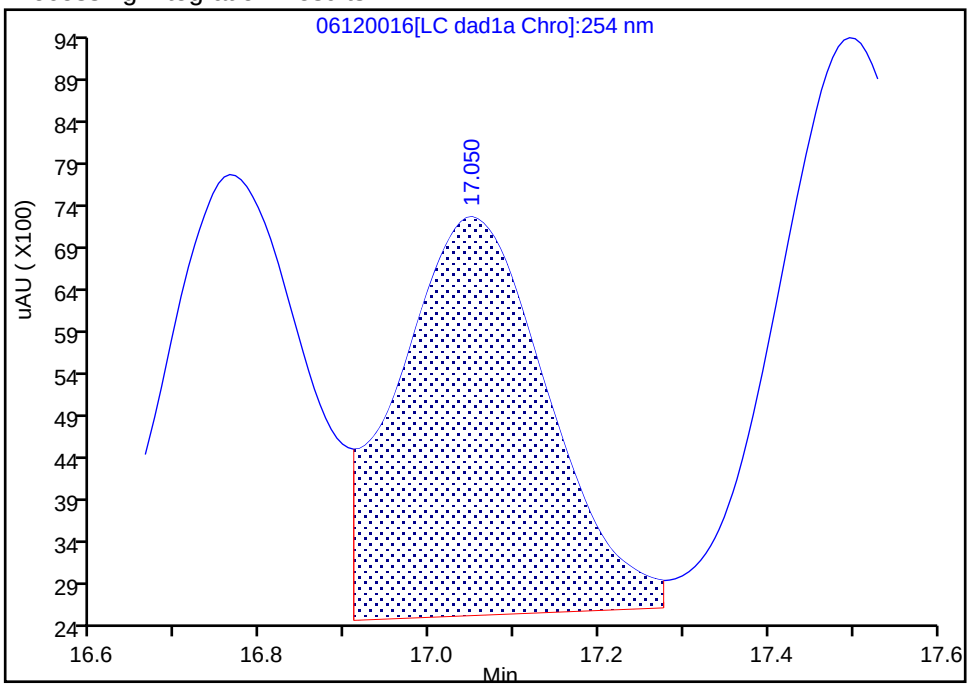
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

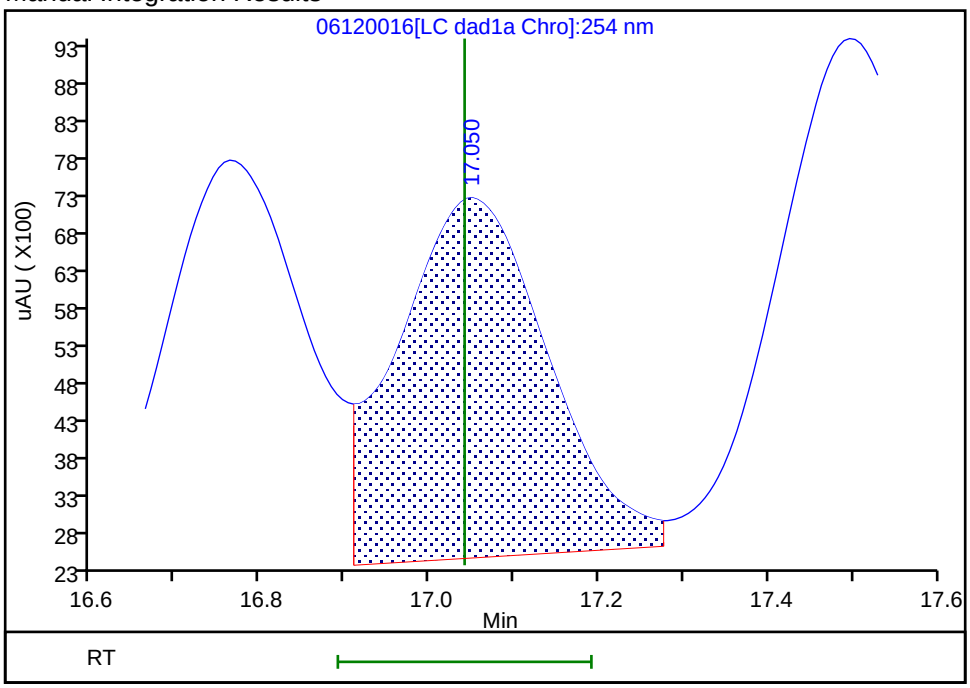
Processing Integration Results

RT: 17.05
Area: 57348
Amount: 0.238076
Amount Units: ug/ml



Manual Integration Results

RT: 17.05
Area: 58844
Amount: 0.244286
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:45

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

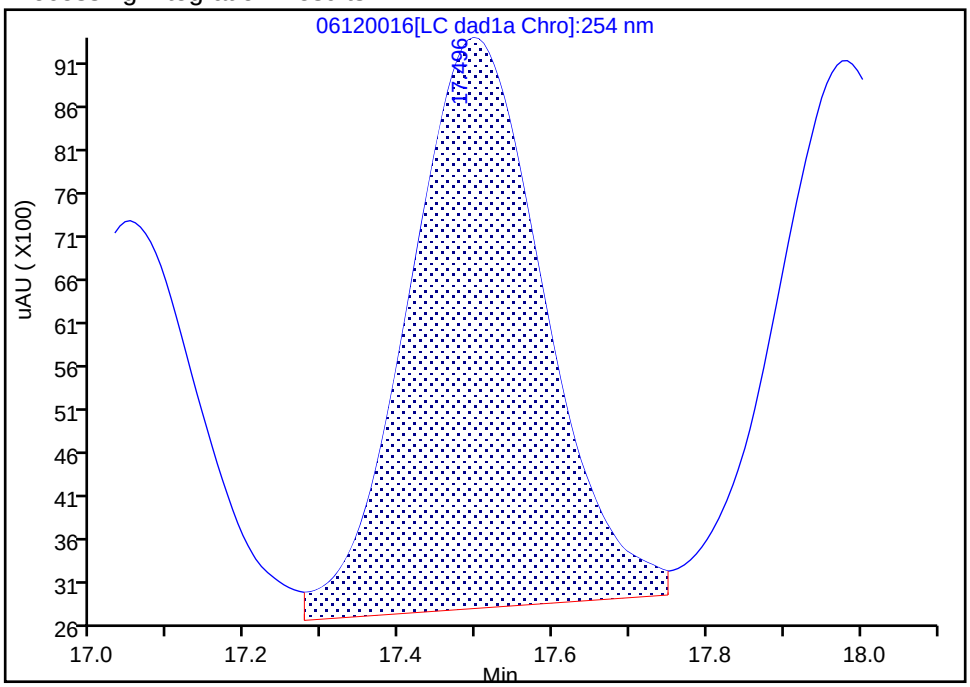
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

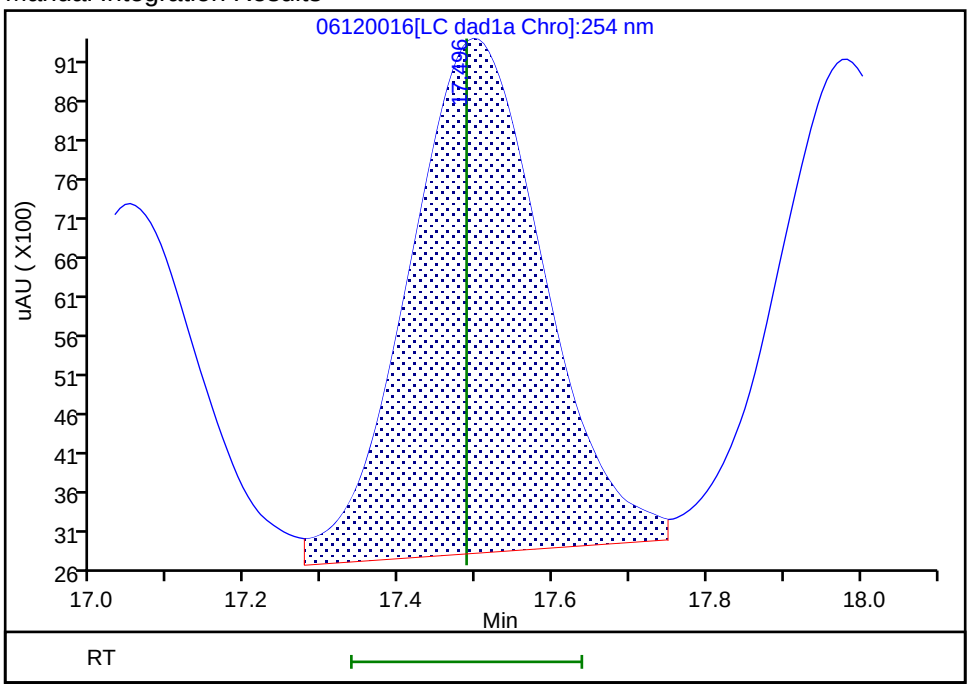
Processing Integration Results

RT: 17.50
Area: 80258
Amount: 0.232474
Amount Units: ug/ml



Manual Integration Results

RT: 17.50
Area: 80258
Amount: 0.232474
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:45

Audit Action: Assigned New Baseline Audit Reason: Baseline

Eurofins TestAmerica, Denver

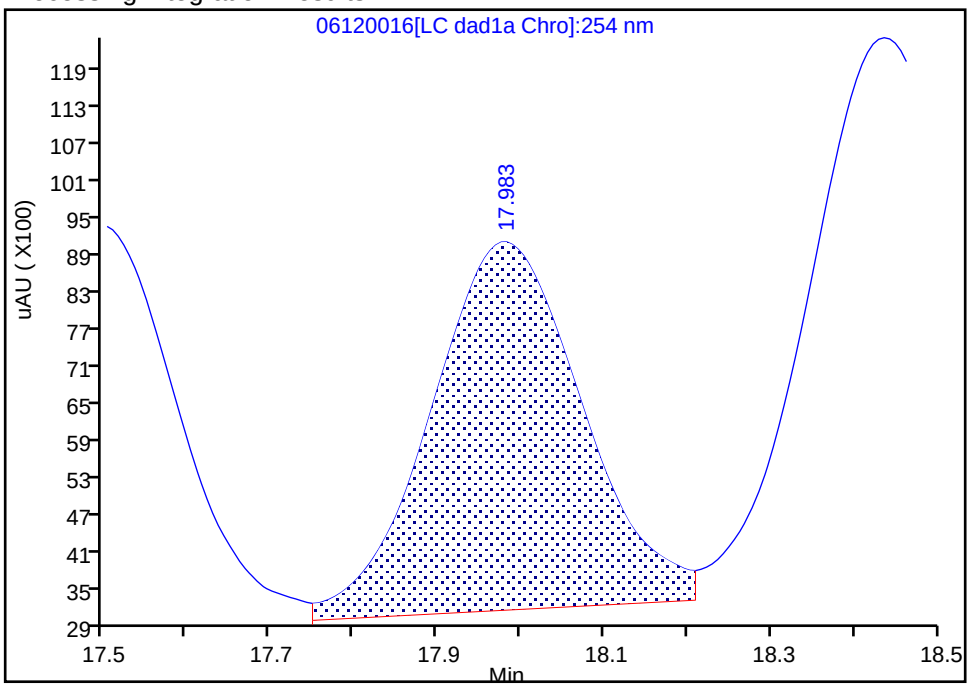
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

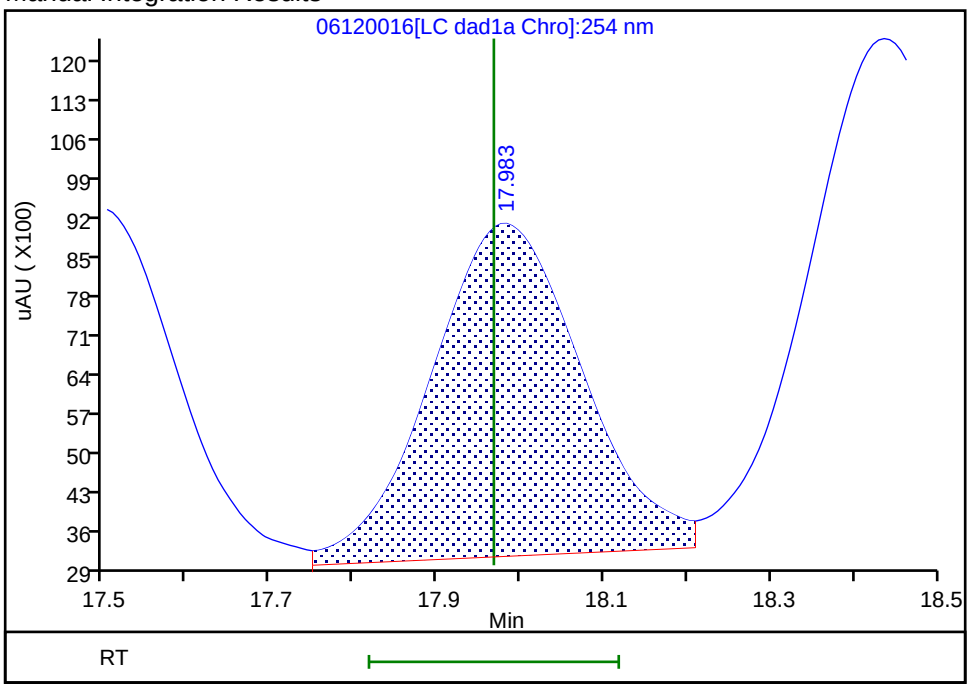
Processing Integration Results

RT: 17.98
Area: 75683
Amount: 0.253692
Amount Units: ug/ml



Manual Integration Results

RT: 17.98
Area: 75420
Amount: 0.252810
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:45
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

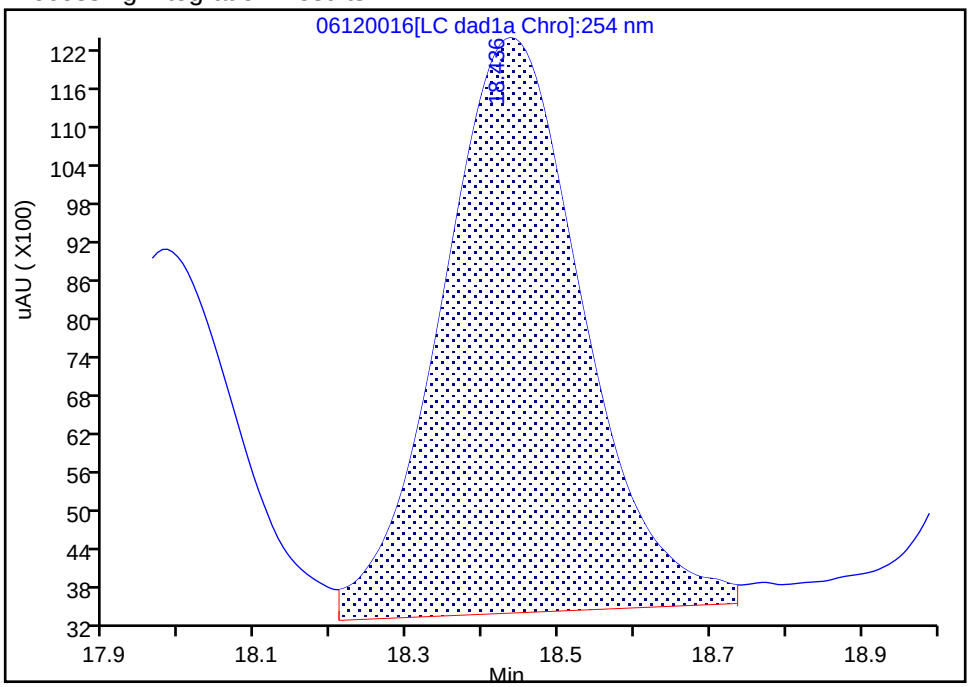
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

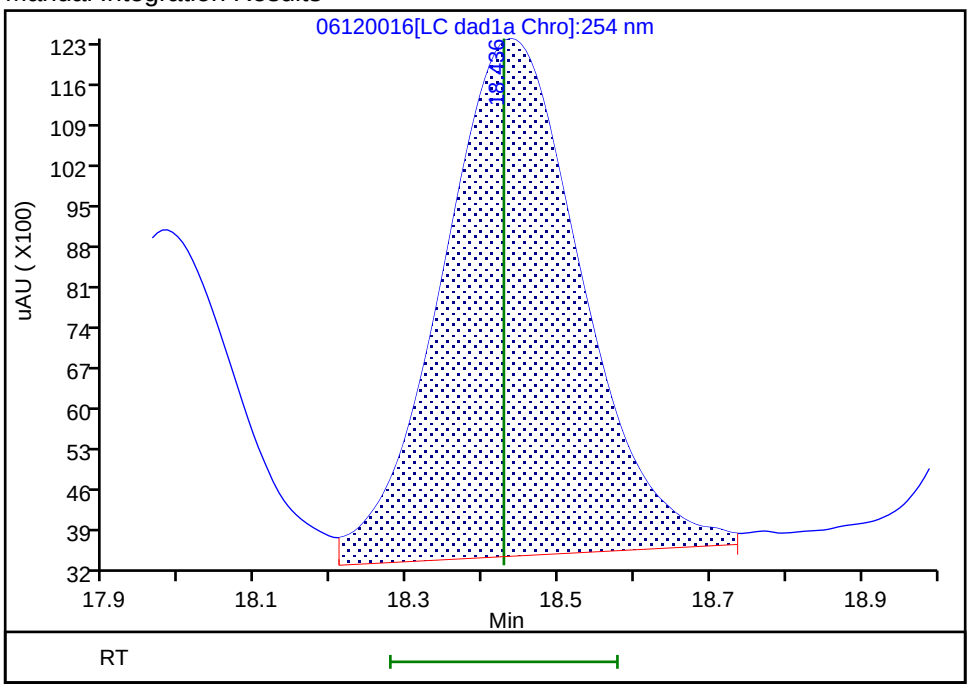
Processing Integration Results

RT: 18.44
Area: 116952
Amount: 0.251396
Amount Units: ug/ml



Manual Integration Results

RT: 18.44
Area: 115340
Amount: 0.247931
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:45
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

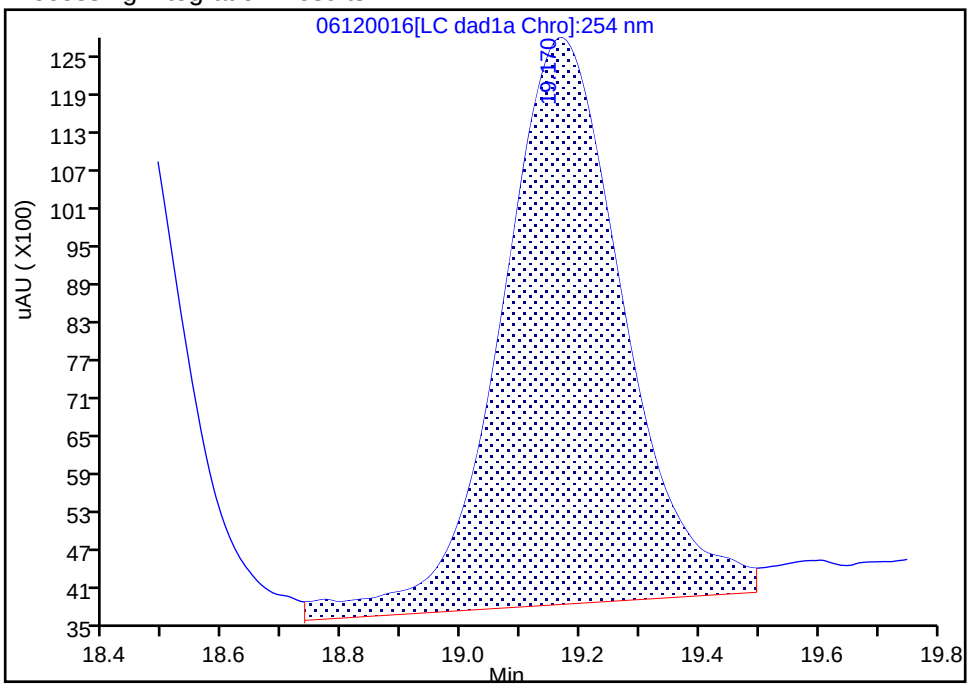
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

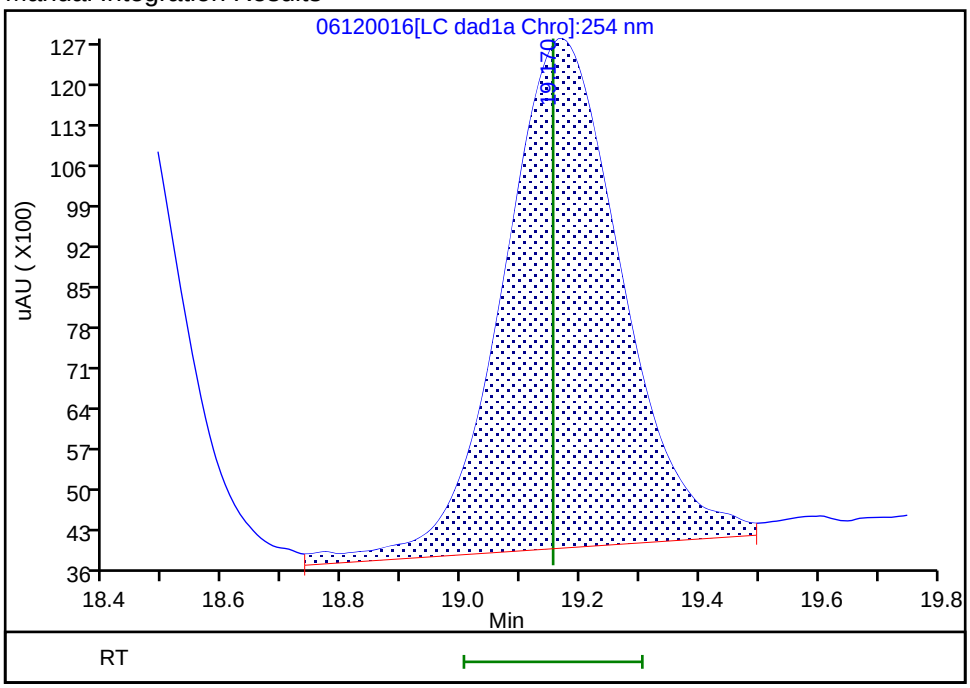
Processing Integration Results

RT: 19.17
Area: 129131
Amount: 0.273322
Amount Units: ug/ml



Manual Integration Results

RT: 19.17
Area: 122884
Amount: 0.260099
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:45

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

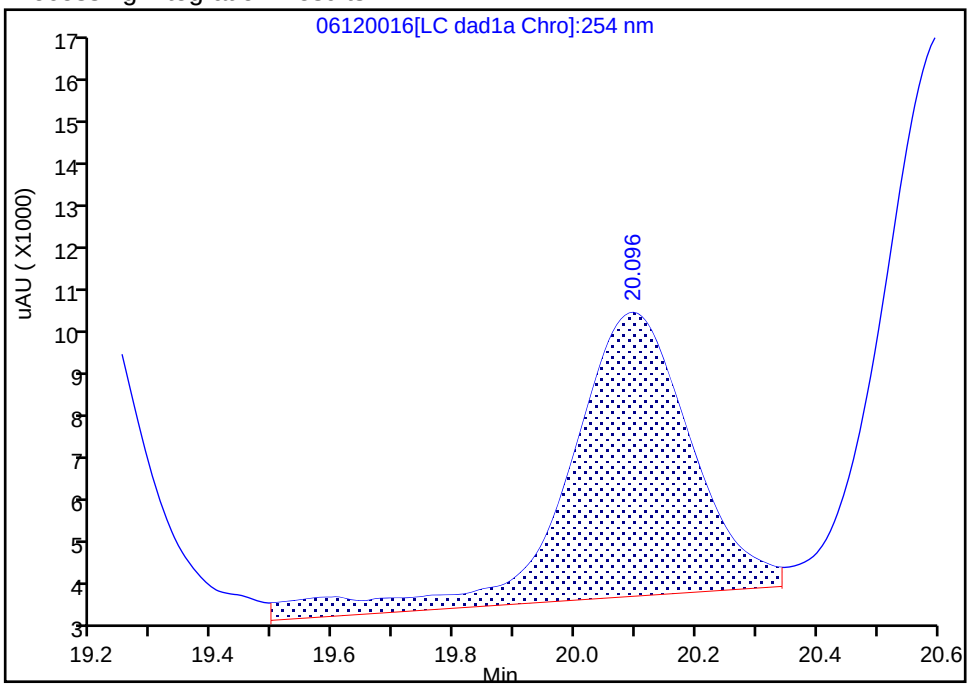
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

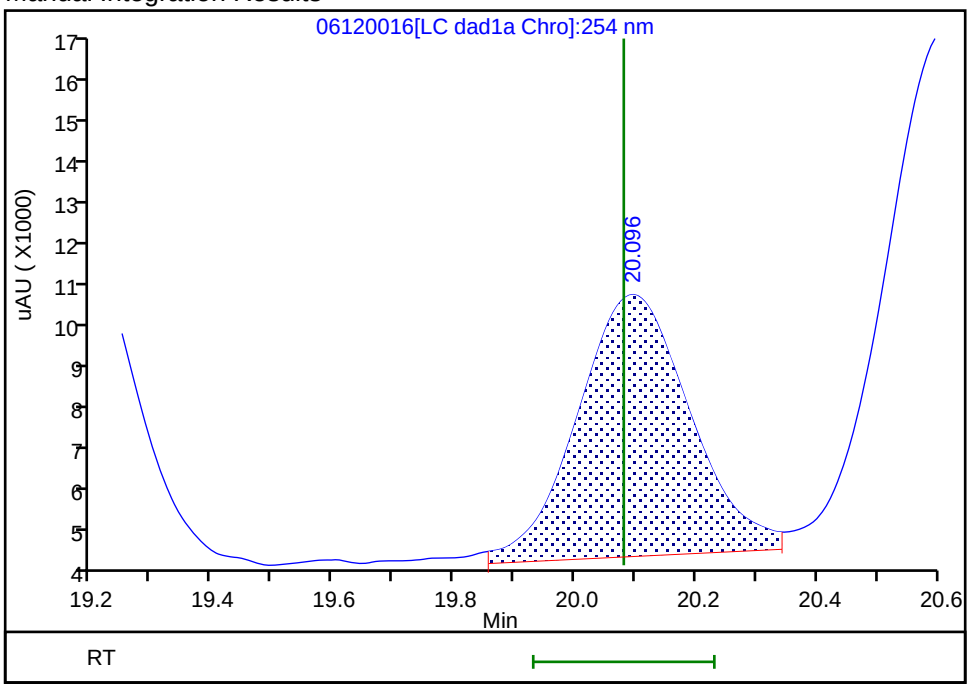
Processing Integration Results

RT: 20.10
Area: 88733
Amount: 0.291465
Amount Units: ug/ml



Manual Integration Results

RT: 20.10
Area: 79672
Amount: 0.260136
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:48
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins TestAmerica, Denver

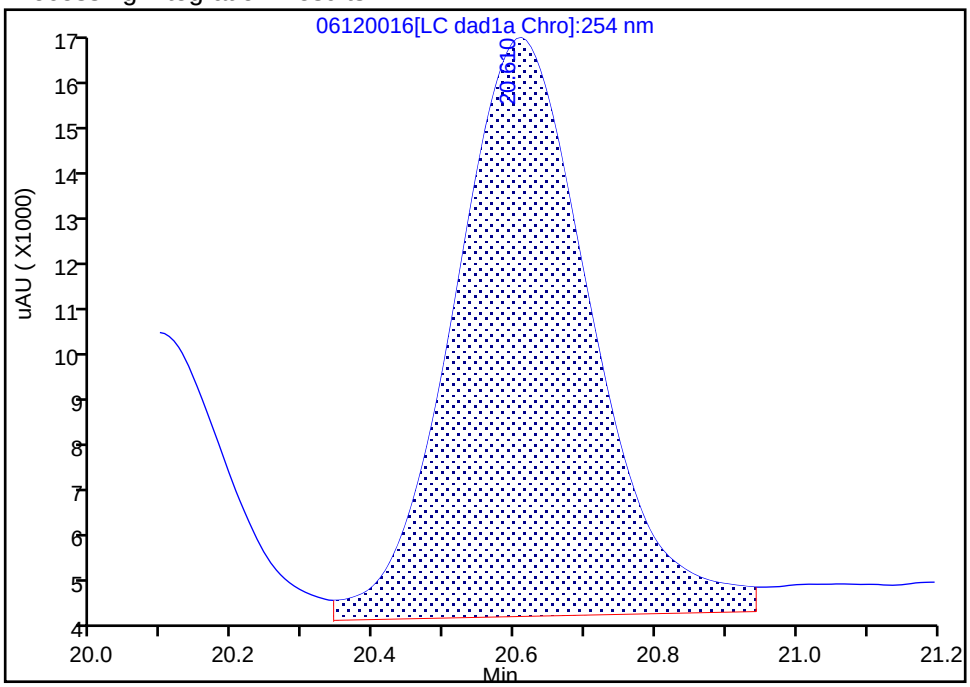
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120016.d				
Injection Date:	12-Jun-2020 22:33:00	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

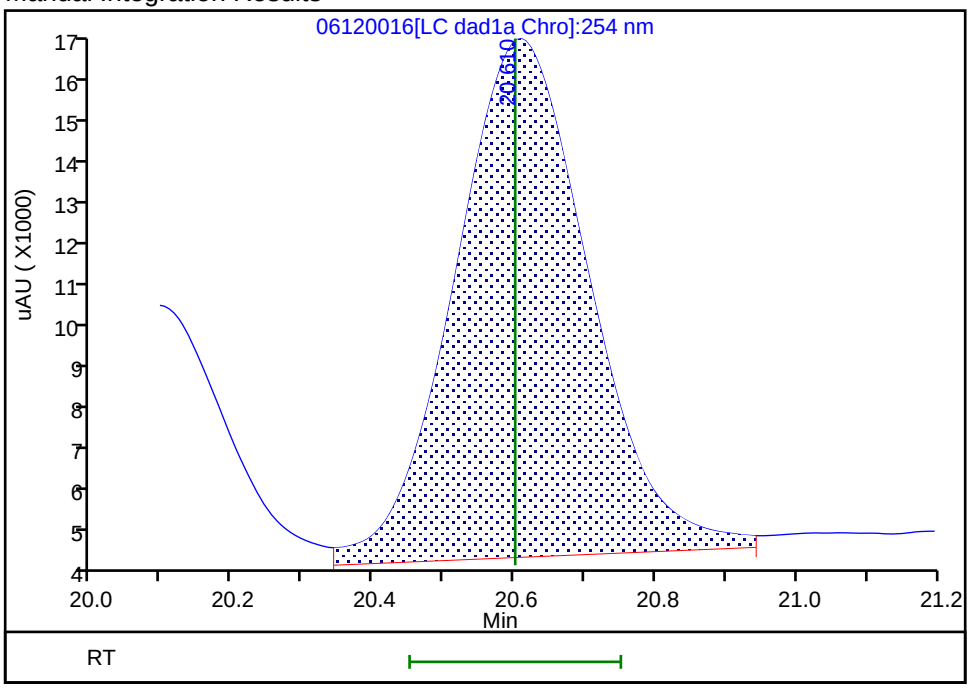
Processing Integration Results

RT: 20.61
Area: 162968
Amount: 0.254592
Amount Units: ug/ml



Manual Integration Results

RT: 20.61
Area: 158432
Amount: 0.247506
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 18:59:45
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/17 Calibration Date: 06/12/2020 23:08

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06120017.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	414717		238	250	-4.8	15.0
DNX	Ave	321206	305155		238	250	-5.0	15.0
MNX	Lin2		284627		291	292	-0.3	15.0

FORM VII 8330A

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/17 Calibration Date: 06/12/2020 23:08

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06120017.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.53	5.36	5.66
DNX	6.37	6.19	6.49
MNX	7.93	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120017.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Jun-2020 23:08:01	ALS Bottle#:	8	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092371-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:53:26	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 17:48:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.527	5.509	0.018	103783	0.2503	0.2381	
4 DNX	1	6.374	6.336	0.038	76365	0.2503	0.2377	
7 MNX	1	7.934	7.876	0.058	83040	0.2918	0.2909	

Reagents:

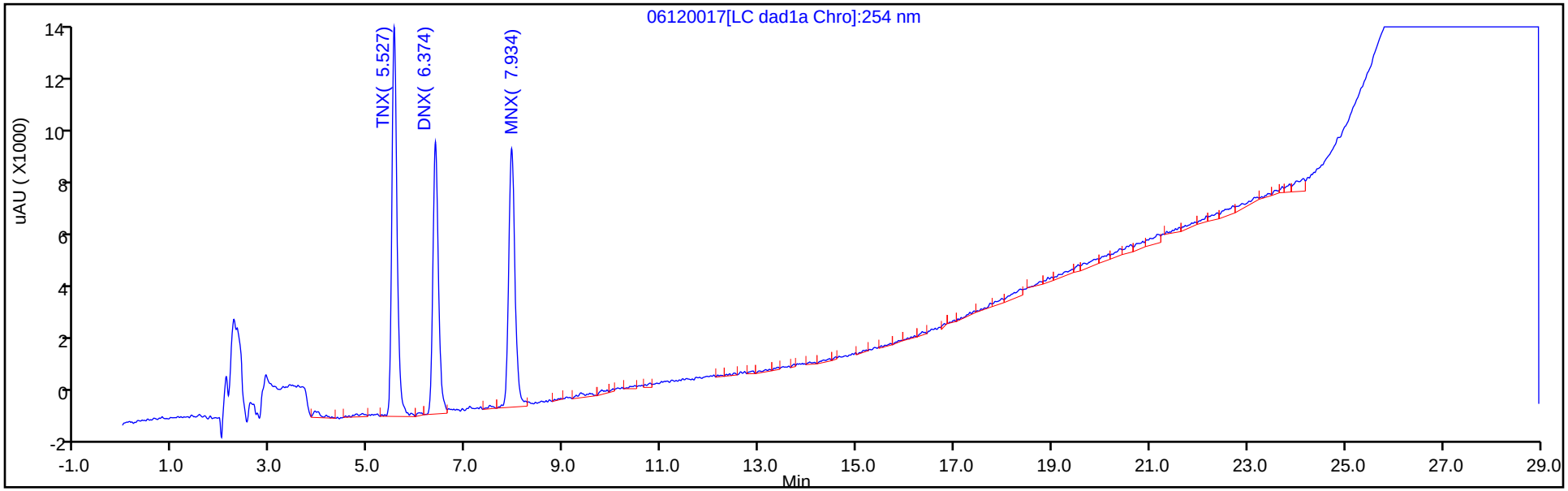
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 16-Jun-2020 18:53:26 Chrom Revision: 2.3 10-Jun-2020 22:46:48

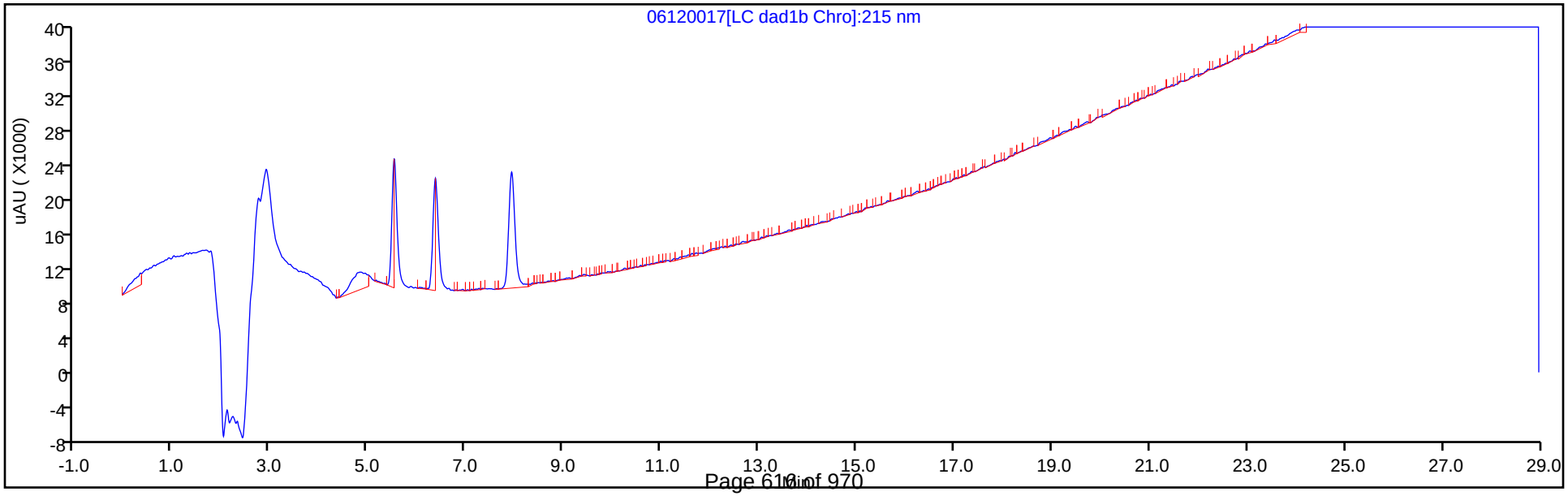
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120017.d				
Injection Date:	12-Jun-2020 23:08:01	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	17
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/26 Calibration Date: 06/13/2020 04:22

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06120026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		186156		233	250	-6.9	15.0
Picric acid	Ave	193810	188748		243	250	-2.6	15.0
RDX	Ave	244360	227920		233	250	-6.7	15.0
Nitrobenzene	Ave	439227	416498		238	251	-5.2	15.0
1,3-Dinitrobenzene	Ave	674189	654311		243	251	-2.9	15.0
Nitroglycerin	Ave	126803	143387		2830	2500	13.1	15.0
2-Nitrotoluene	Ave	272965	251064		230	250	-8.0	15.0
4-Nitrotoluene	Ave	240881	233106		242	251	-3.2	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	321550		233	250	-6.9	15.0
3-Nitrotoluene	Ave	298327	300188		252	250	0.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	460199		248	251	-1.1	15.0
1,3,5-Trinitrobenzene	Ave	472451	481972		256	251	2.0	15.0
2,6-Dinitrotoluene	Lin2		310801		254	251	1.4	15.0
2,4-Dinitrotoluene	Ave	640113	616442		242	251	-3.7	15.0
Tetryl	Ave	368678	351118		239	251	-4.8	15.0
2,4,6-Trinitrotoluene	Lin1		393171		238	251	-5.2	15.0
PETN	Lin1		141954		2530	2500	1.3	15.0
1,2-Dinitrobenzene	Lin1		293836		258	250	3.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/26 Calibration Date: 06/13/2020 04:22

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06120026.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.15	7.01	7.31
Picric acid	8.47	8.38	8.68
RDX	9.37	9.24	9.54
Nitrobenzene	12.26	12.13	12.43
1,3-Dinitrobenzene	15.80	15.68	15.98
Nitroglycerin	16.03	15.92	16.22
2-Nitrotoluene	16.73	16.60	16.90
4-Nitrotoluene	17.01	16.89	17.19
4-Amino-2,6-dinitrotoluene	17.47	17.34	17.64
3-Nitrotoluene	17.94	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.41	18.28	18.58
1,3,5-Trinitrobenzene	19.14	19.00	19.30
2,6-Dinitrotoluene	20.07	19.93	20.23
2,4-Dinitrotoluene	20.58	20.45	20.75
Tetryl	23.89	23.76	24.06
2,4,6-Trinitrotoluene	24.90	24.76	25.06
PETN	25.43	25.30	25.60
1,2-Dinitrobenzene	13.27	13.14	13.44

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120026.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 13-Jun-2020 04:22:47 ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092371-026
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:53:22 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 17:52:57

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	4.386	4.394	-0.008	106108	0.2500	0.2472	
2 2,4-diamino-6-nitrotoluene	1	4.986	5.008	-0.022	70199	0.2500	0.2720	
6 HMX	1	7.146	7.161	-0.015	46539	0.2500	0.2328	
5 2,4,6-Trinitrophenol	1	8.466	8.528	-0.062	47187	0.2500	0.2435	
8 RDX	1	9.372	9.387	-0.015	56980	0.2500	0.2332	
9 Nitrobenzene	1	12.259	12.281	-0.022	104541	0.2510	0.2380	
$ 10 1,2-Dinitrobenzene	1	13.266	13.294	-0.028	73459	0.2500	0.2583	
11 3,5-Dinitroaniline	1	15.212	15.241	-0.029	123477	0.2500	0.2489	M
12 1,3-Dinitrobenzene	1	15.799	15.827	-0.028	163905	0.2505	0.2431	M
13 Nitroglycerin	2	16.032	16.067	-0.035	358467	2.50	2.83	
14 o-Nitrotoluene	1	16.726	16.747	-0.021	62766	0.2500	0.2299	M
15 p-Nitrotoluene	1	17.006	17.041	-0.035	58393	0.2505	0.2424	M
16 4-Amino-2,6-dinitrotoluene	1	17.466	17.487	-0.021	80468	0.2503	0.2331	M
17 m-Nitrotoluene	1	17.939	17.967	-0.028	75122	0.2503	0.2518	M
18 2-Amino-4,6-dinitrotoluene	1	18.406	18.427	-0.021	115510	0.2510	0.2483	M
19 1,3,5-Trinitrobenzene	1	19.139	19.154	-0.015	120734	0.2505	0.2555	M
20 2,6-Dinitrotoluene	1	20.066	20.081	-0.015	78011	0.2510	0.2544	M
21 2,4-Dinitrotoluene	1	20.579	20.601	-0.022	154727	0.2510	0.2417	M
22 Tetryl	1	23.886	23.908	-0.022	87955	0.2505	0.2386	
23 2,4,6-Trinitrotoluene	1	24.899	24.914	-0.015	98686	0.2510	0.2379	
24 PETN	2	25.426	25.448	-0.022	354885	2.50	2.53	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

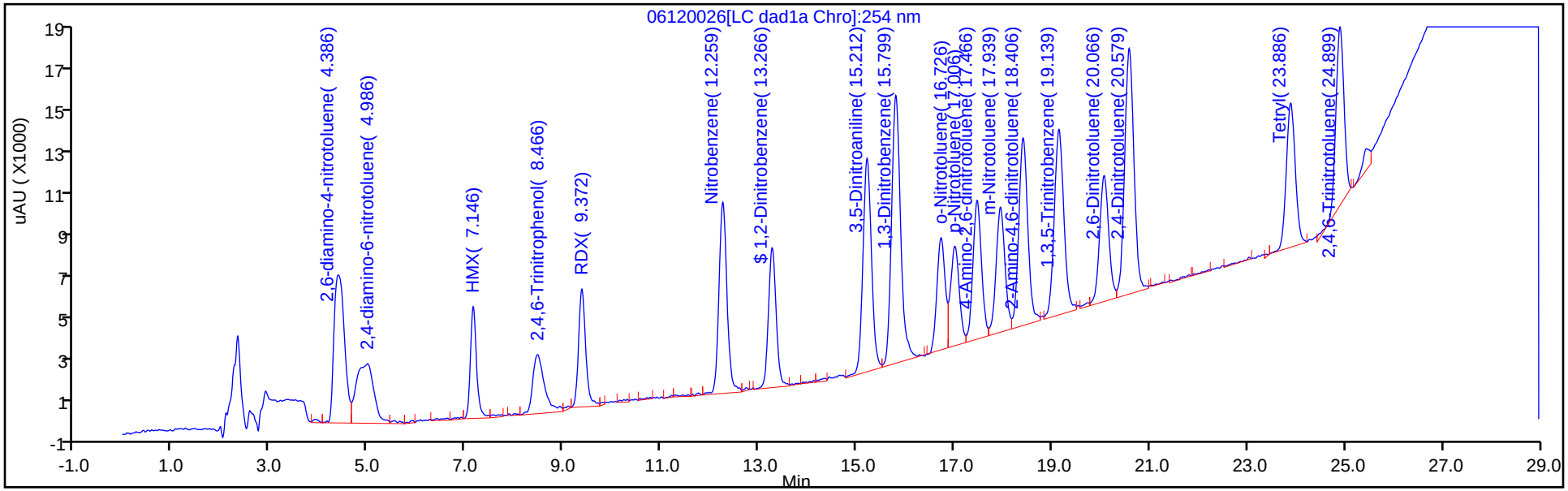
8330IntermStk_00064	Amount Added: 25.00	Units: uL
8330_ADDs_00027	Amount Added: 12.50	Units: uL

Report Date: 16-Jun-2020 18:53:22 Chrom Revision: 2.3 10-Jun-2020 22:46:48

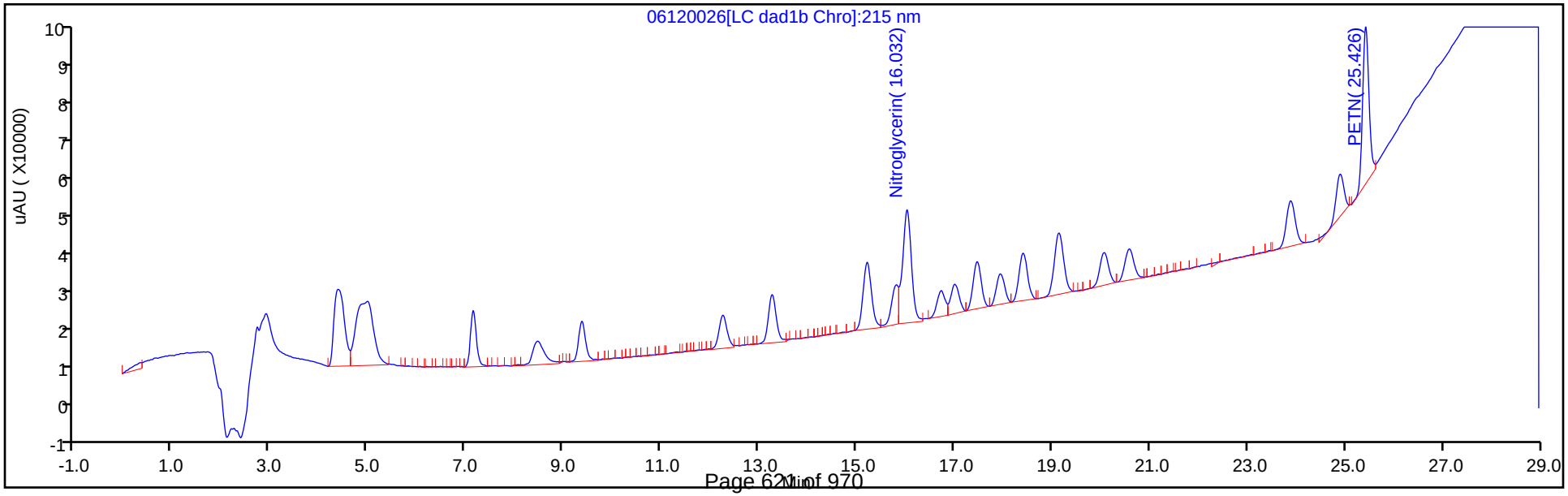
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	26
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

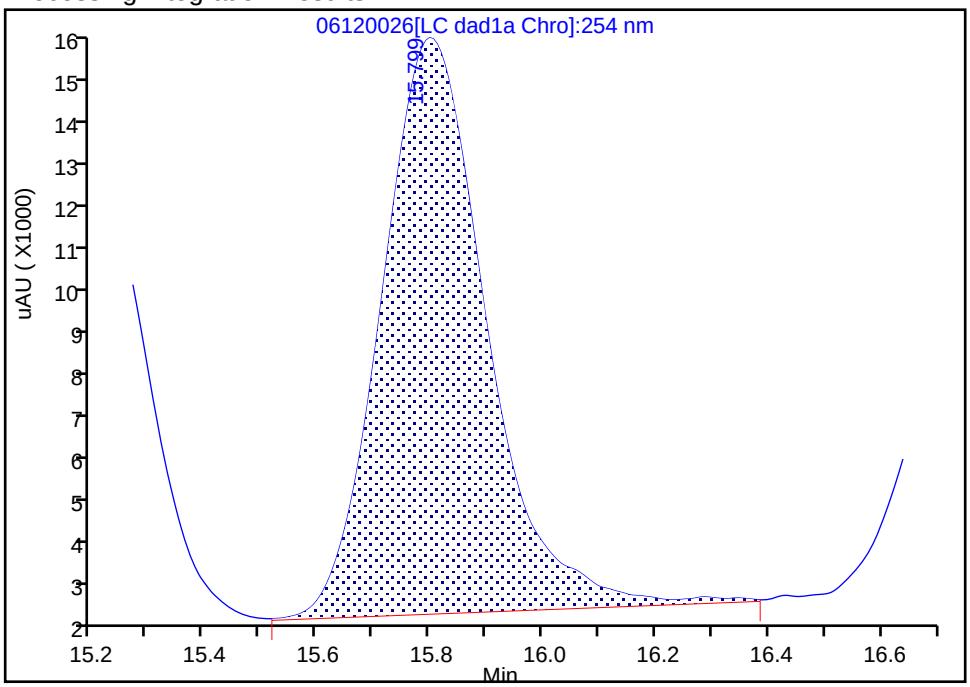
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

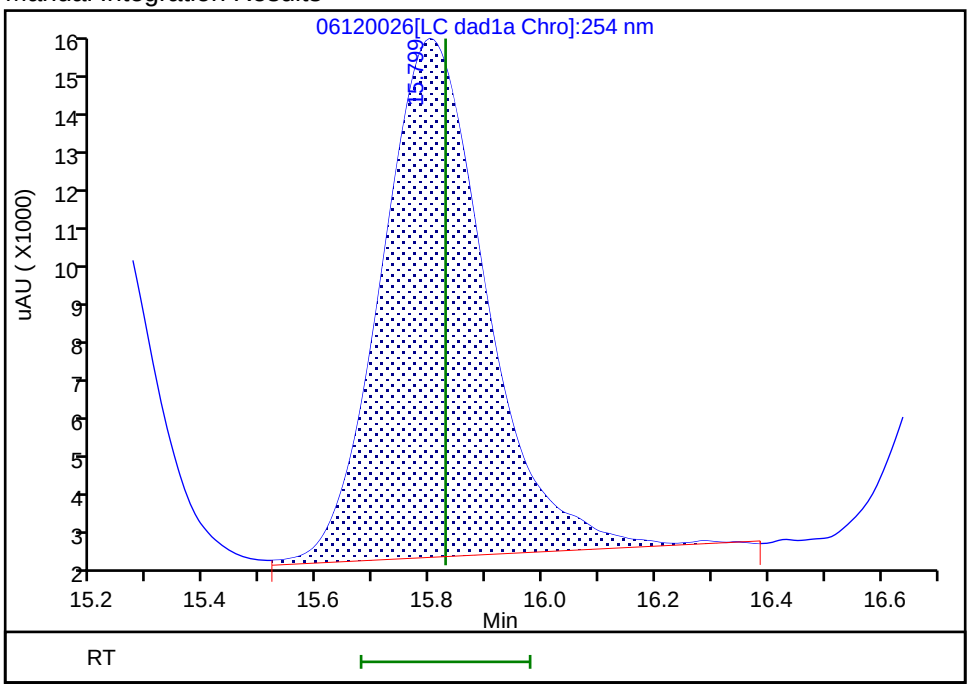
Processing Integration Results

RT: 15.80
Area: 164295
Amount: 0.243693
Amount Units: ug/ml



Manual Integration Results

RT: 15.80
Area: 163905
Amount: 0.243114
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

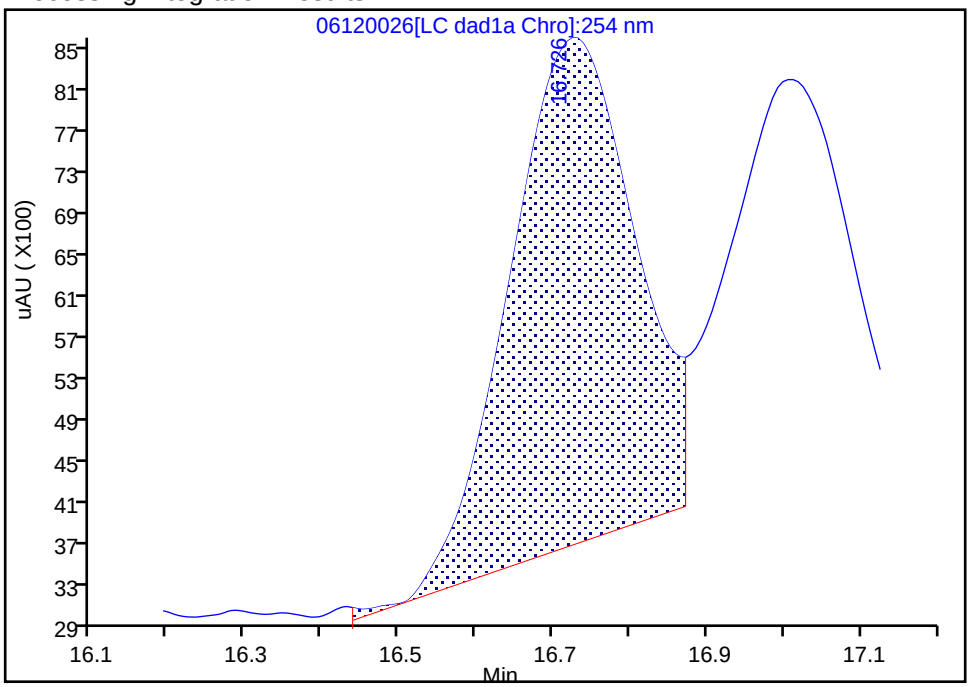
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

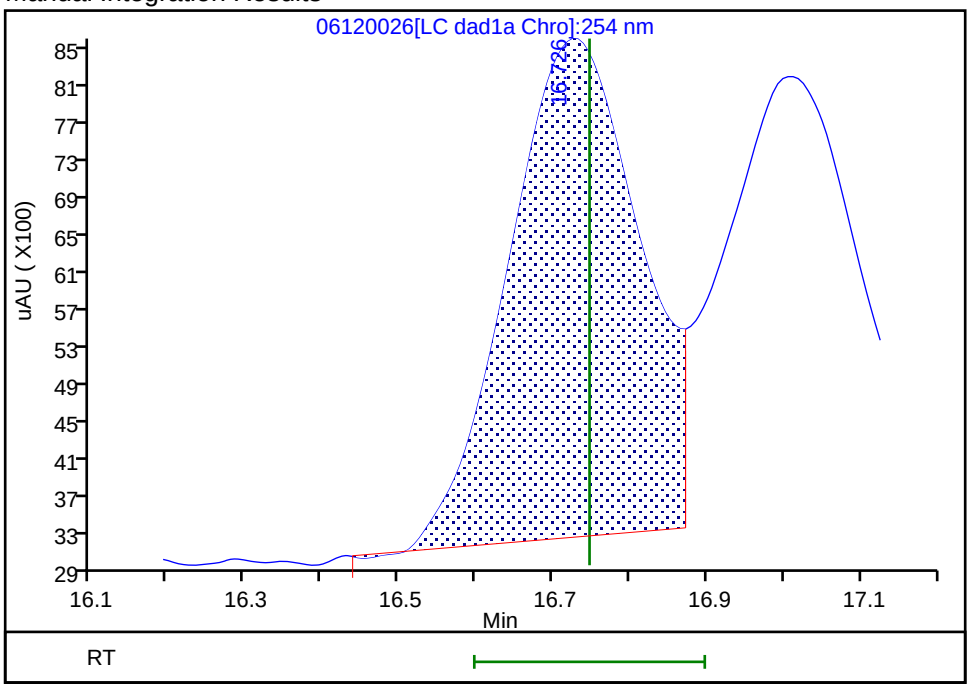
Processing Integration Results

RT: 16.73
Area: 55733
Amount: 0.204177
Amount Units: ug/ml



Manual Integration Results

RT: 16.73
Area: 62766
Amount: 0.229942
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

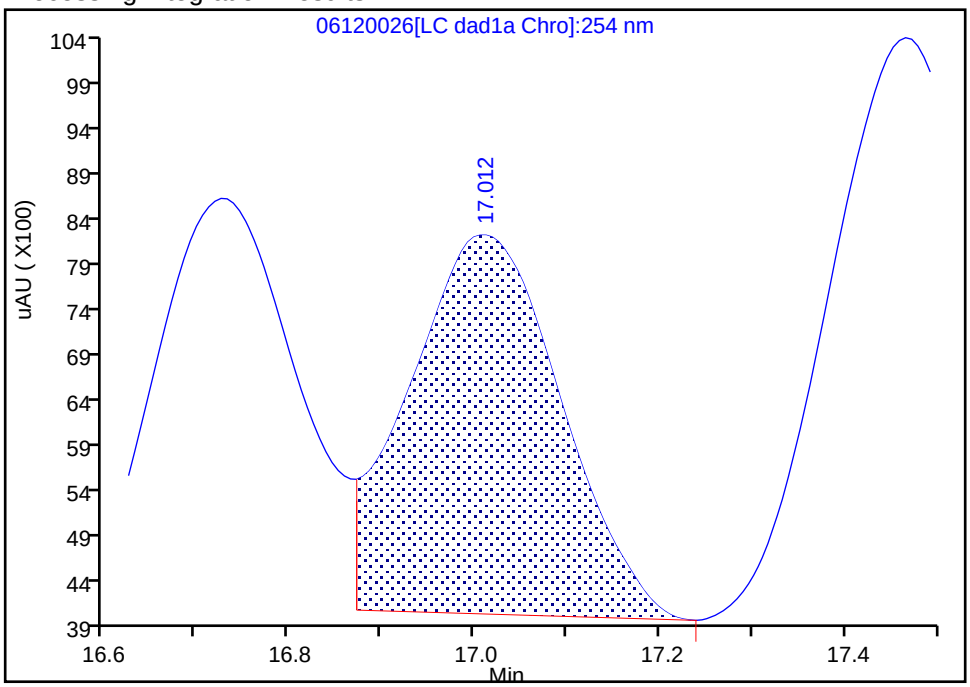
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

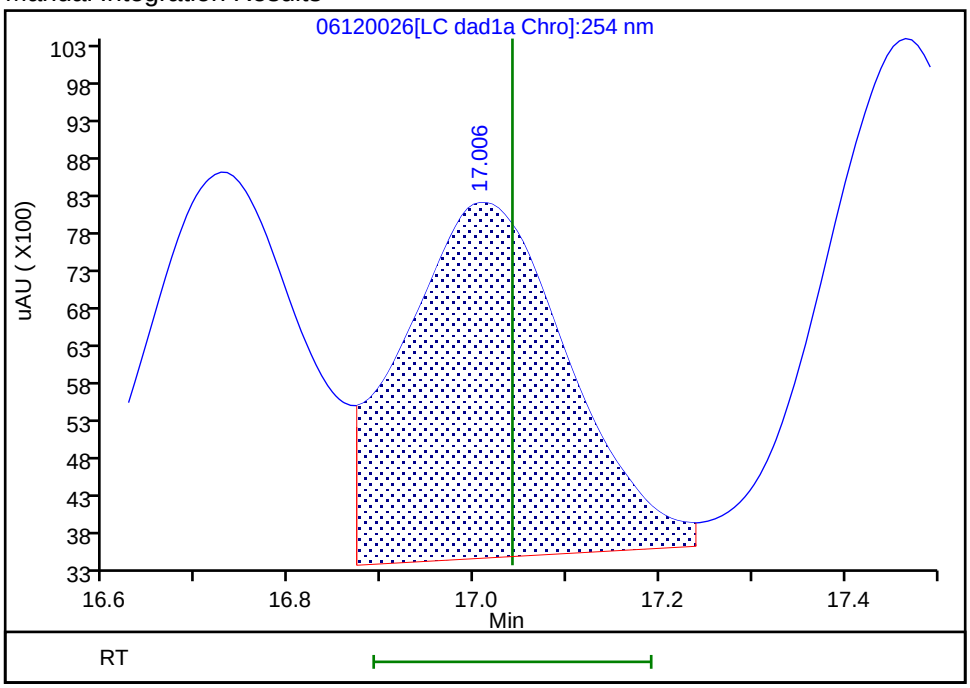
Processing Integration Results

RT: 17.01
Area: 47591
Amount: 0.197570
Amount Units: ug/ml



Manual Integration Results

RT: 17.01
Area: 58393
Amount: 0.242414
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

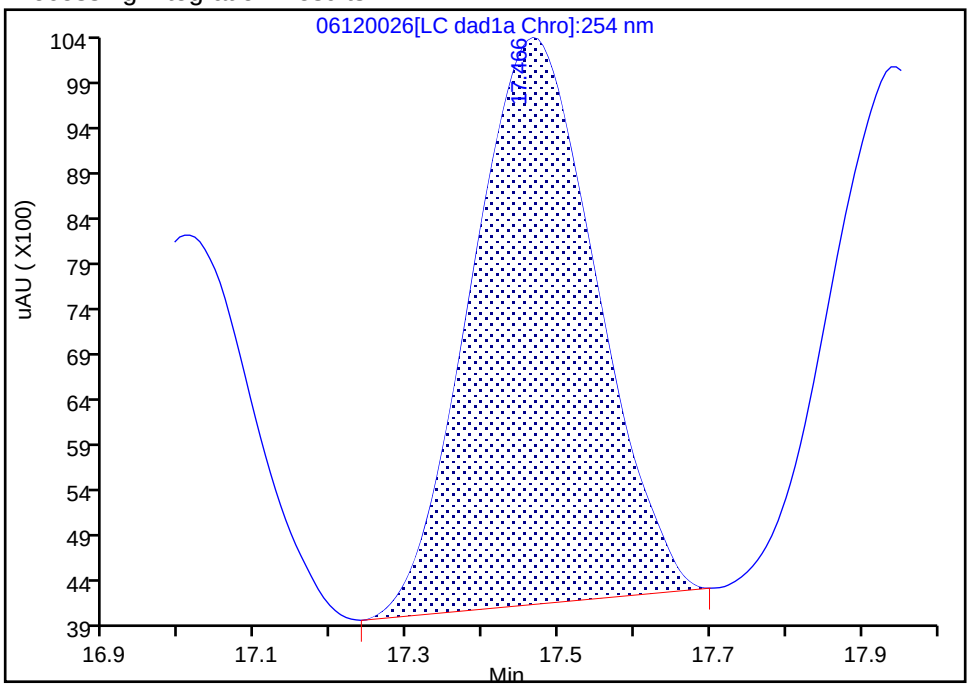
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

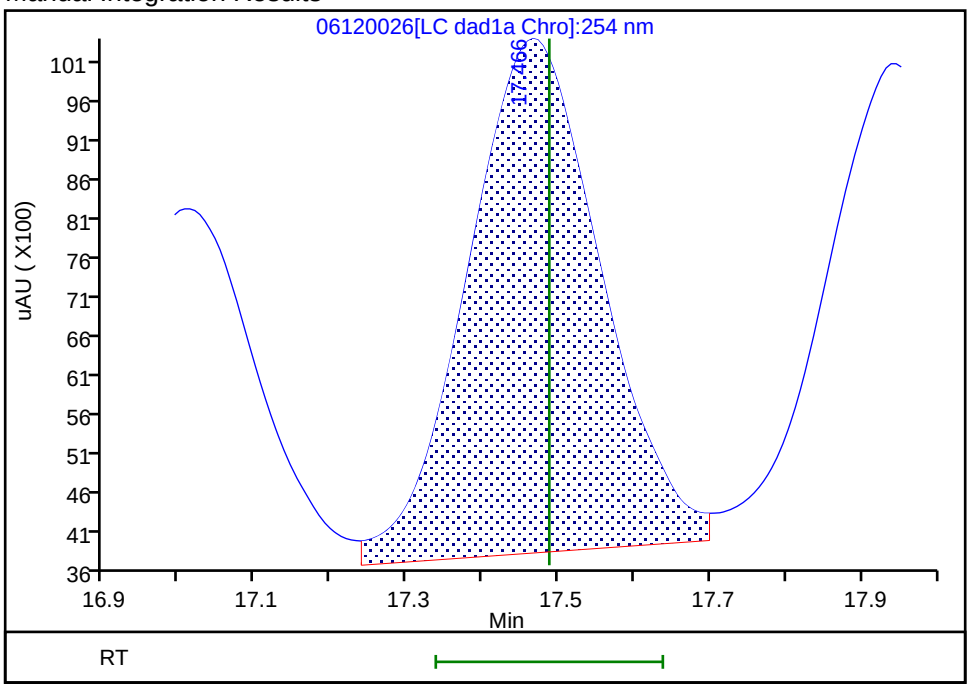
Processing Integration Results

RT: 17.47
Area: 71415
Amount: 0.206859
Amount Units: ug/ml



Manual Integration Results

RT: 17.47
Area: 80468
Amount: 0.233082
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

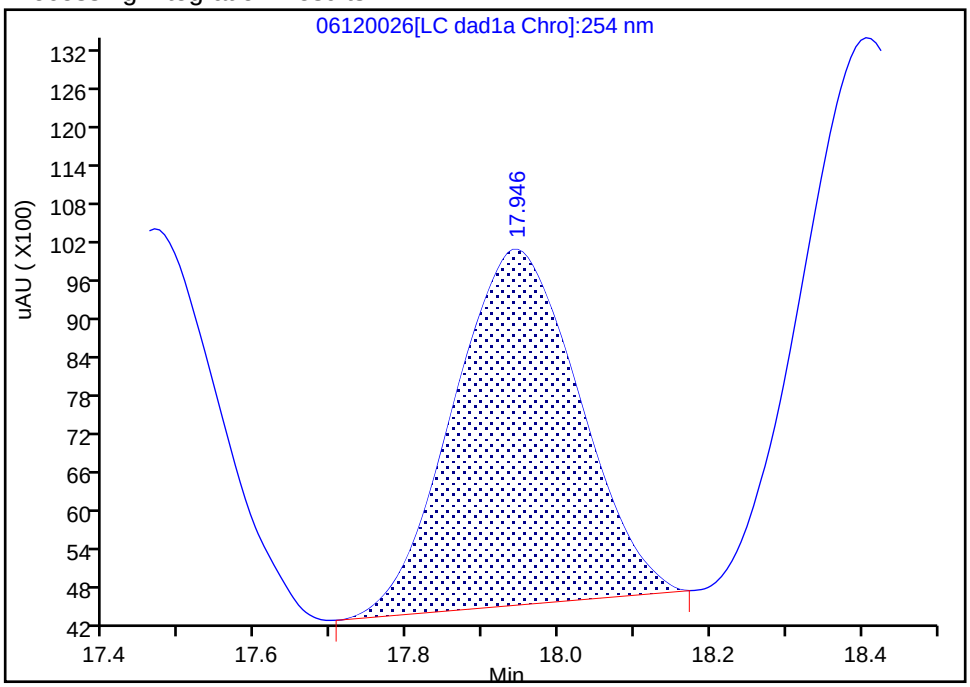
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

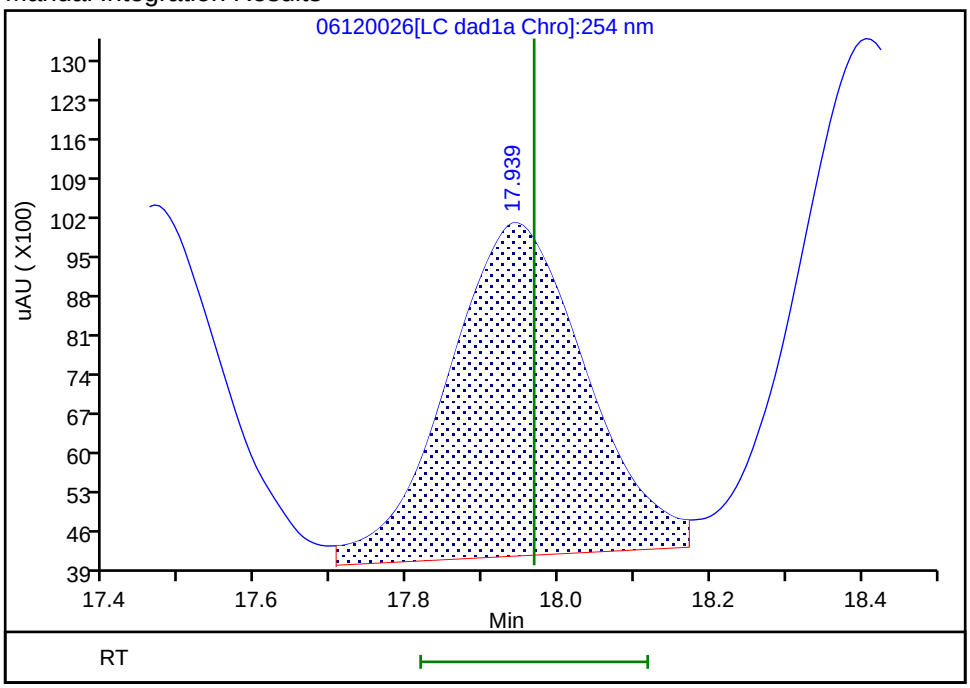
Processing Integration Results

RT: 17.95
Area: 63558
Amount: 0.213048
Amount Units: ug/ml



Manual Integration Results

RT: 17.94
Area: 75122
Amount: 0.251811
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

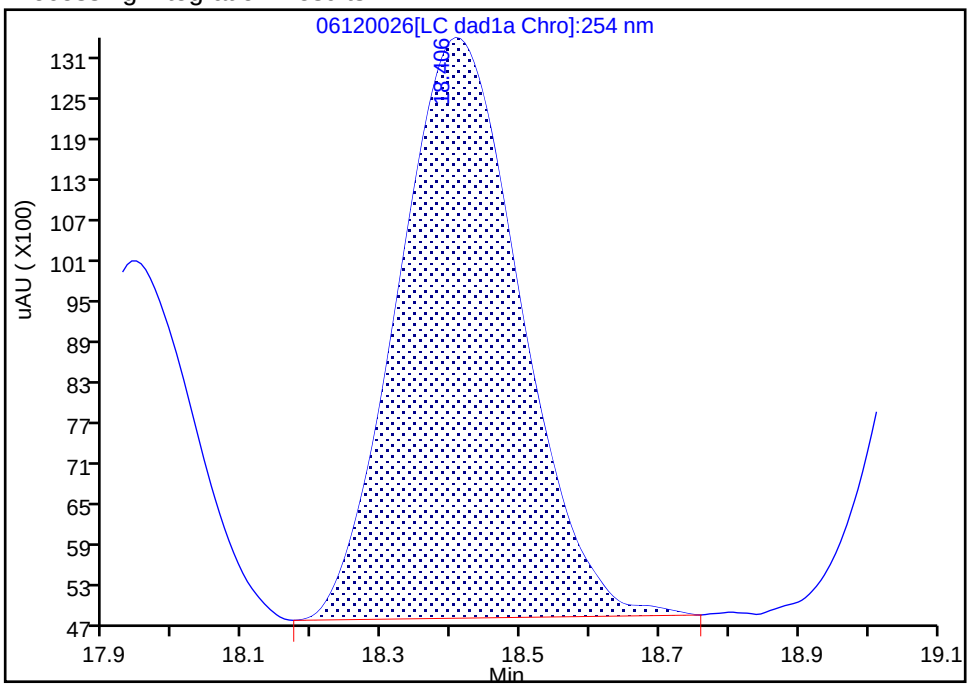
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

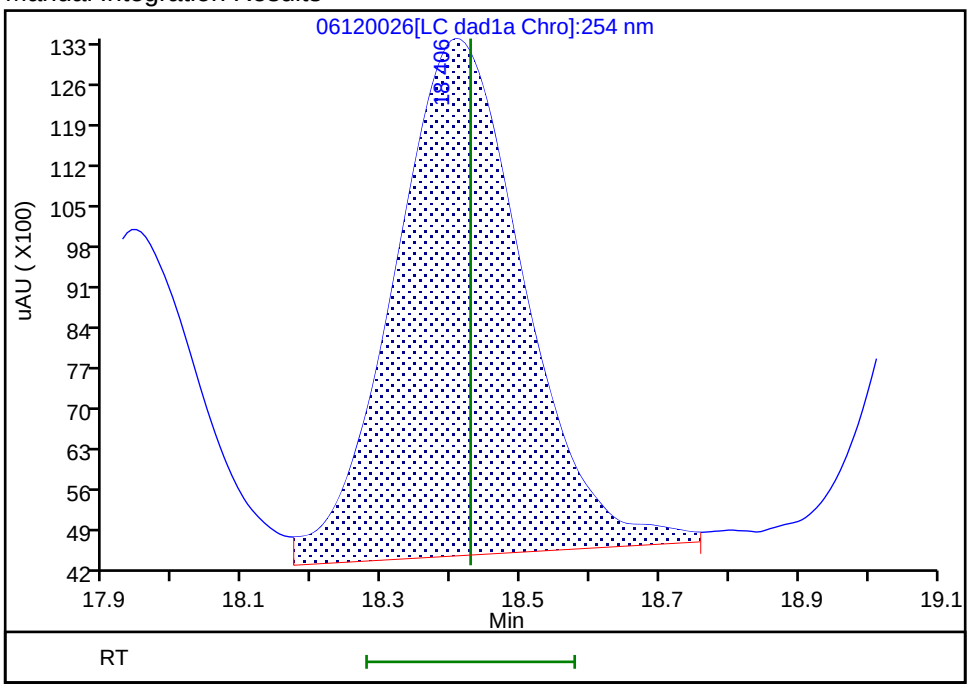
Processing Integration Results

RT: 18.41
Area: 104193
Amount: 0.223969
Amount Units: ug/ml



Manual Integration Results

RT: 18.41
Area: 115510
Amount: 0.248296
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

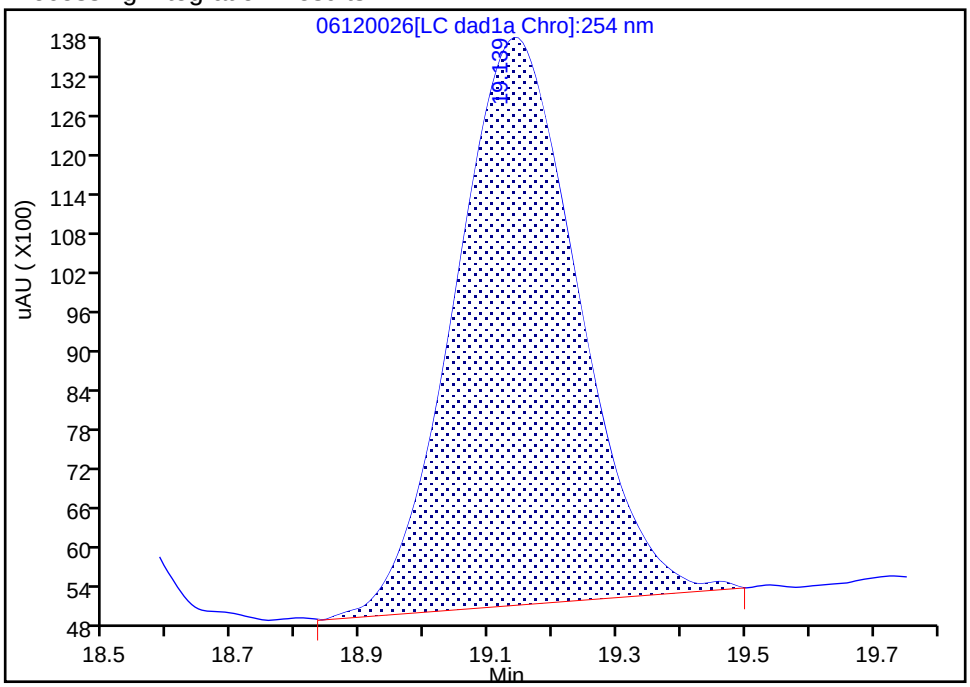
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

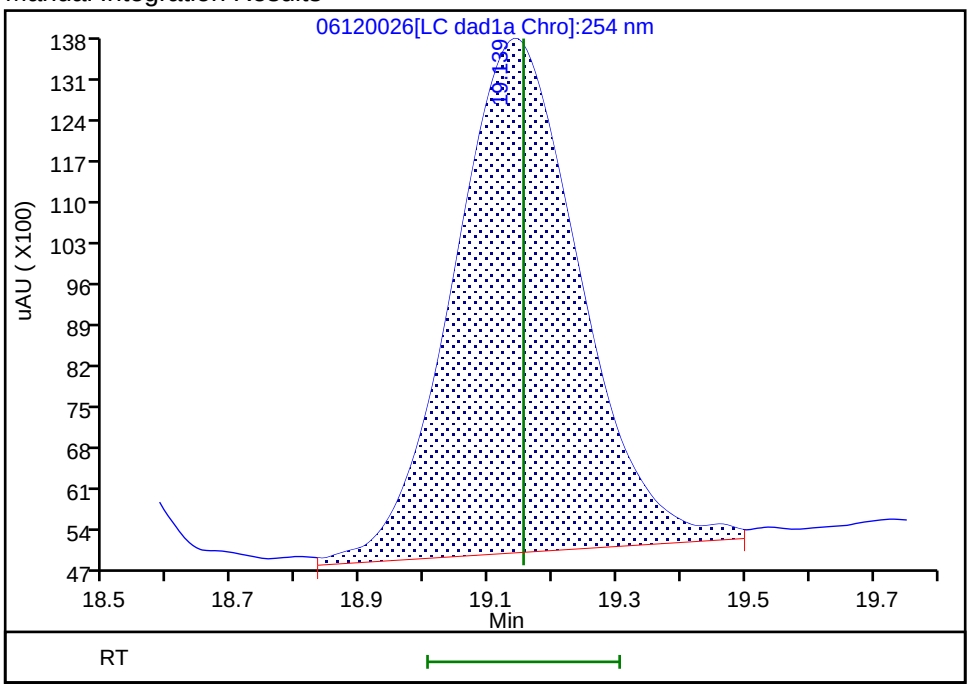
Processing Integration Results

RT: 19.14
Area: 115574
Amount: 0.244627
Amount Units: ug/ml



Manual Integration Results

RT: 19.14
Area: 120734
Amount: 0.255548
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

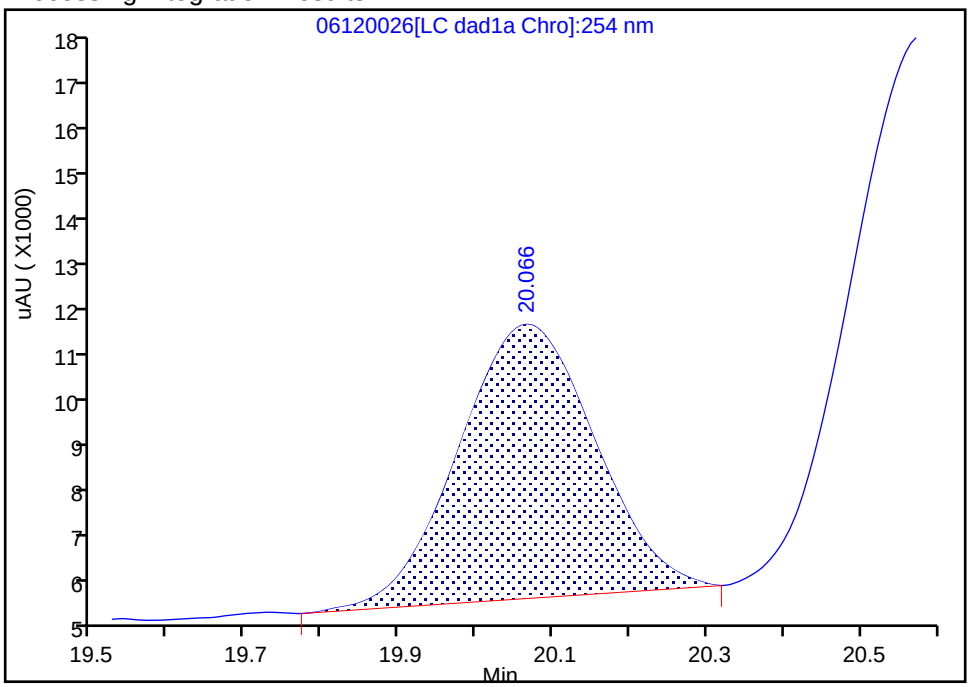
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

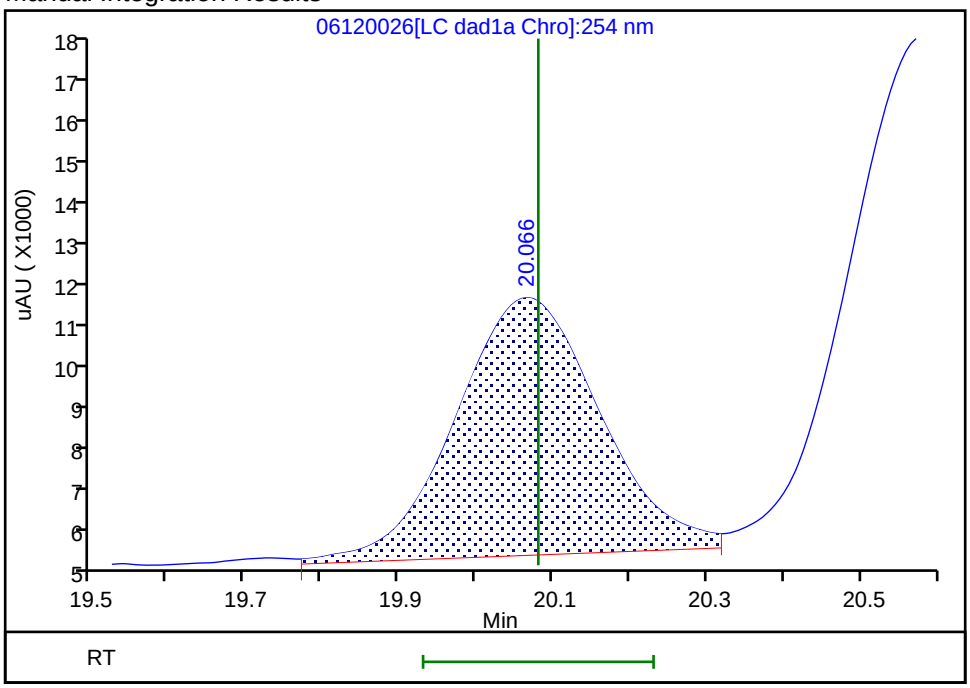
Processing Integration Results

RT: 20.07
Area: 70762
Amount: 0.229329
Amount Units: ug/ml



Manual Integration Results

RT: 20.07
Area: 78011
Amount: 0.254393
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

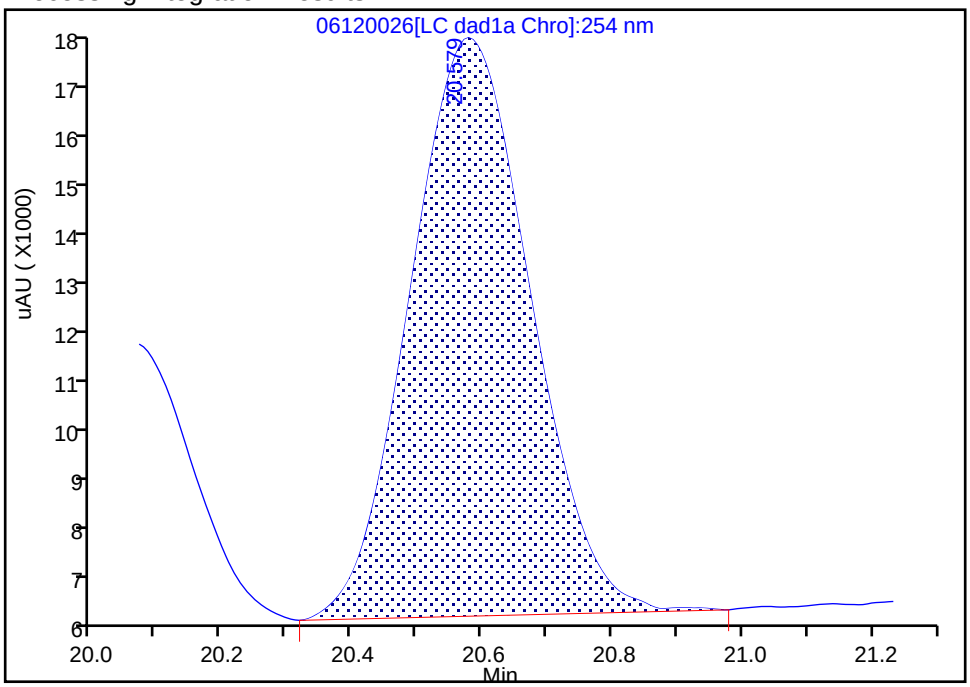
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d				
Injection Date:	13-Jun-2020 04:22:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

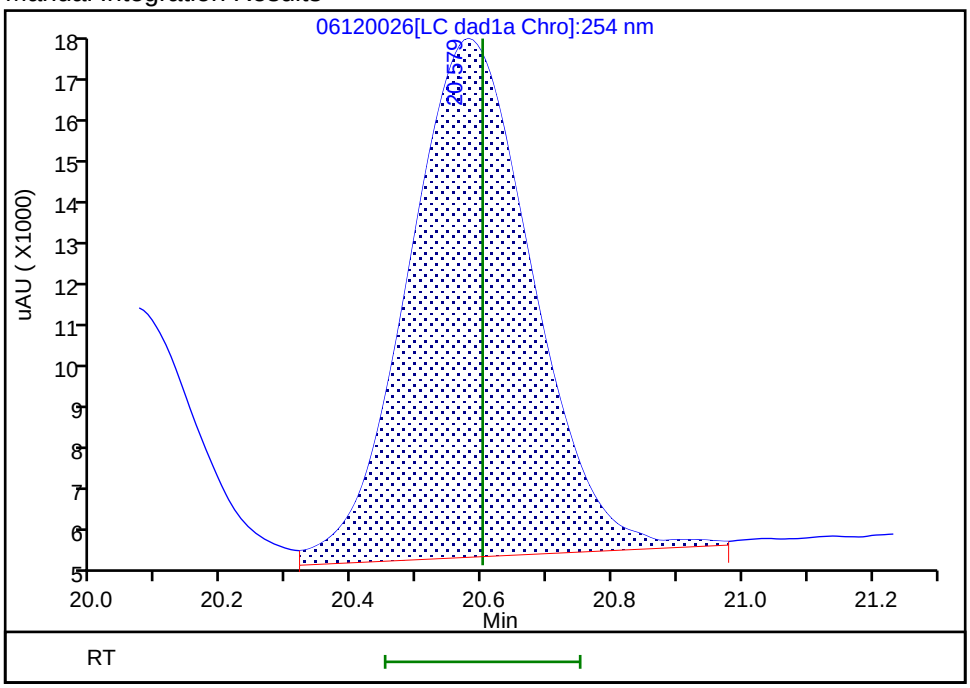
Processing Integration Results

RT: 20.58
Area: 146648
Amount: 0.229097
Amount Units: ug/ml



Manual Integration Results

RT: 20.58
Area: 154727
Amount: 0.241718
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/27 Calibration Date: 06/13/2020 04:57

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06120027.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	409770		235	250	-6.0	15.0
DNX	Ave	321206	307357		239	250	-4.3	15.0
MNX	Lin2		273878		279	292	-4.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498568/27 Calibration Date: 06/13/2020 04:57

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06120027.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.53	5.36	5.66
DNX	6.37	6.19	6.49
MNX	7.93	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120027.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	13-Jun-2020 04:57:45	ALS Bottle#:	8	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092371-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:53:22	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 17:53:06

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.527	5.509	0.018	102545	0.2503	0.2353	
4 DNX	1	6.367	6.336	0.031	76916	0.2503	0.2395	
7 MNX	1	7.927	7.876	0.051	79904	0.2918	0.2791	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

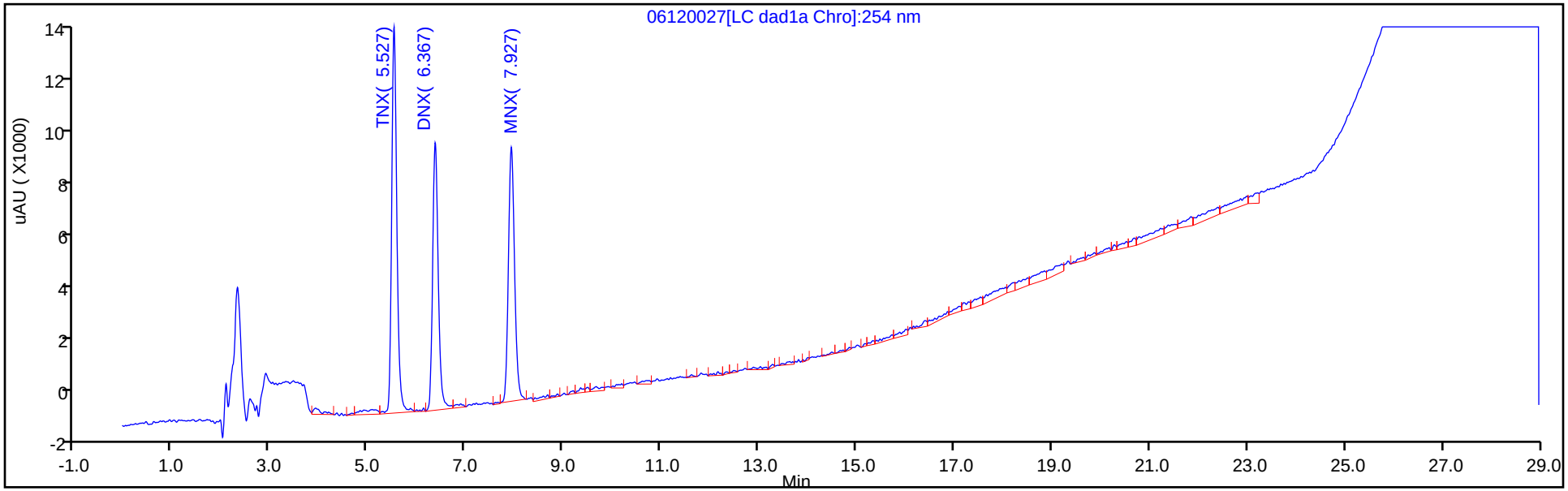
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 16-Jun-2020 18:53:22 Chrom Revision: 2.3 10-Jun-2020 22:46:48

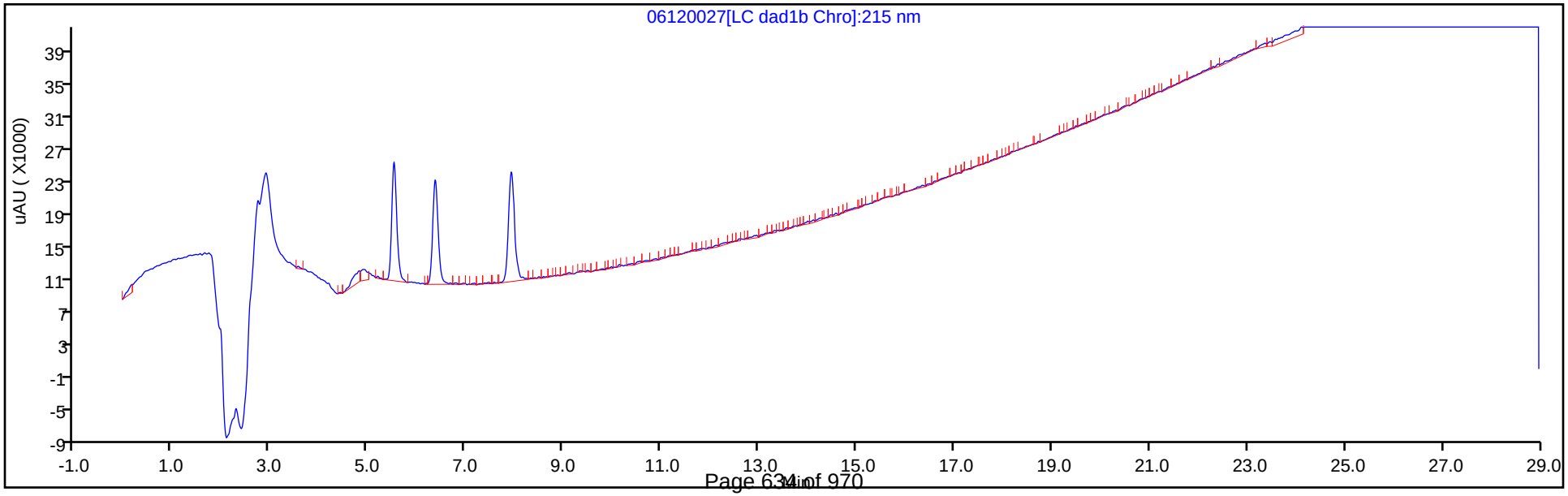
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120027.d				
Injection Date:	13-Jun-2020 04:57:45	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	27
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

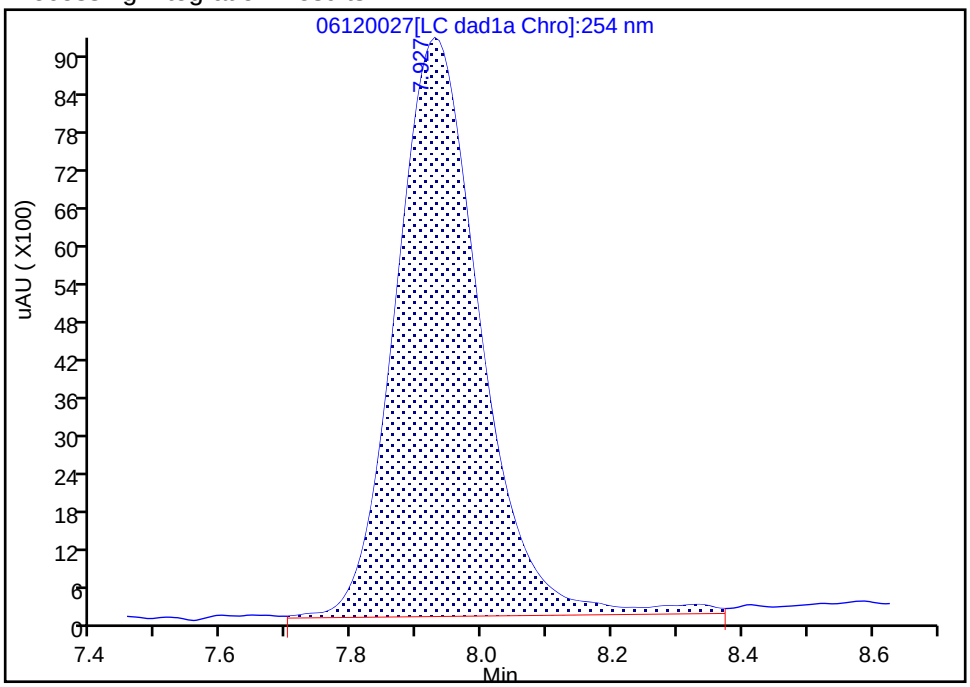
Data File:	\\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120027.d				
Injection Date:	13-Jun-2020 04:57:45	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	8	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

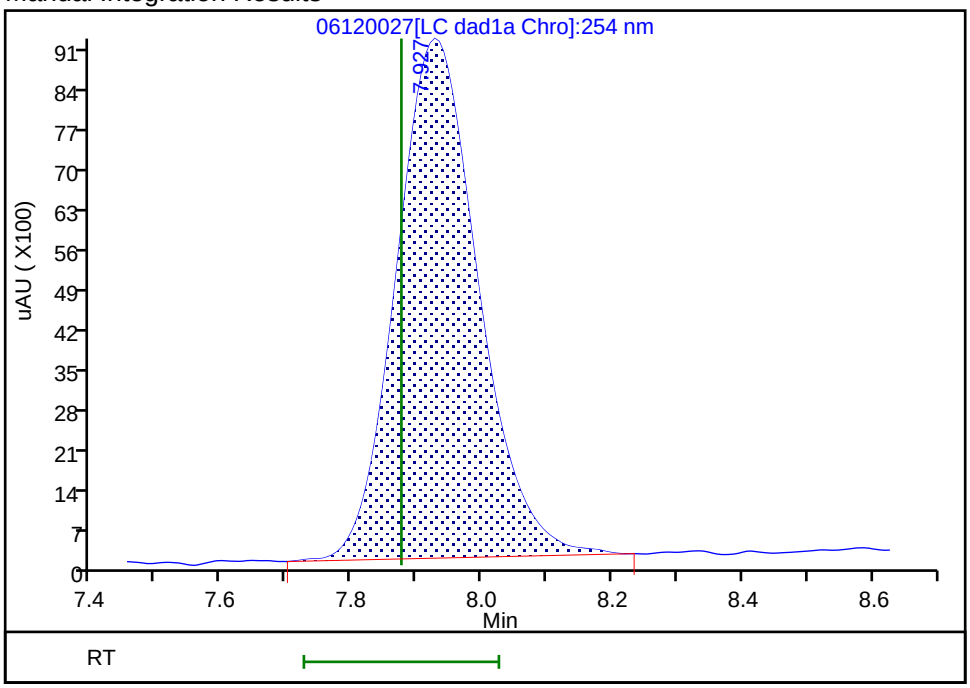
Processing Integration Results

RT: 7.93
Area: 83121
Amount: 0.291171
Amount Units: ug/ml



Manual Integration Results

RT: 7.93
Area: 79904
Amount: 0.279117
Amount Units: ug/ml



Reviewer: zhangji, 16-Jun-2020 17:53:05

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/7 Calibration Date: 06/17/2020 17:55

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06170007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		184044		230	250	-8.1	15.0
Picric acid	Ave	193810	170756		220	250	-11.9	15.0
RDX	Ave	244360	222236		227	250	-9.1	15.0
Nitrobenzene	Ave	439227	448649		256	251	2.1	15.0
1,3-Dinitrobenzene	Ave	674189	645257		240	251	-4.3	15.0
Nitroglycerin	Ave	126803	133052		2620	2500	4.9	15.0
2-Nitrotoluene	Ave	272965	261520		240	250	-4.2	15.0
4-Nitrotoluene	Ave	240881	244850		255	251	1.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	325431		236	250	-5.7	15.0
3-Nitrotoluene	Ave	298327	309023		259	250	3.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	456912		247	251	-1.8	15.0
1,3,5-Trinitrobenzene	Ave	472451	476251		253	251	0.8	15.0
2,6-Dinitrotoluene	Lin2		308829		253	251	0.7	15.0
2,4-Dinitrotoluene	Ave	640113	620944		243	251	-3.0	15.0
Tetryl	Ave	368678	348355		237	251	-5.5	15.0
2,4,6-Trinitrotoluene	Lin1		393685		238	251	-5.1	15.0
PETN	Lin1		140517		2510	2500	0.2	15.0
1,2-Dinitrobenzene	Lin1		285564		251	250	0.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/7 Calibration Date: 06/17/2020 17:55

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06170007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.15	7.00	7.30
Picric acid	8.48	8.33	8.63
RDX	9.37	9.22	9.52
Nitrobenzene	12.27	12.12	12.42
1,3-Dinitrobenzene	15.81	15.66	15.96
Nitroglycerin	16.06	15.91	16.21
2-Nitrotoluene	16.74	16.59	16.89
4-Nitrotoluene	17.02	16.87	17.17
4-Amino-2,6-dinitrotoluene	17.46	17.31	17.61
3-Nitrotoluene	17.96	17.81	18.11
2-Amino-4,6-dinitrotoluene	18.40	18.25	18.55
1,3,5-Trinitrobenzene	19.14	18.99	19.29
2,6-Dinitrotoluene	20.06	19.91	20.21
2,4-Dinitrotoluene	20.57	20.42	20.72
Tetryl	23.87	23.72	24.02
2,4,6-Trinitrotoluene	24.88	24.73	25.03
PETN	25.43	25.28	25.58
1,2-Dinitrobenzene	13.28	13.13	13.43

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170007.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-Jun-2020 17:55:16 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092518-007
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 17:36:29 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 17-Jun-2020 18:49:54

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	4.403	4.403	0.000	107318	0.2500	0.2500	M
2 2,4-diamino-6-nitrotoluene	1	5.016	5.016	0.000	61844	0.2500	0.2368	M
6 HMX	1	7.150	7.150	0.000	46011	0.2500	0.2299	
5 2,4,6-Trinitrophenol	1	8.476	8.476	0.000	42689	0.2500	0.2203	
8 RDX	1	9.369	9.369	0.000	55559	0.2500	0.2274	
9 Nitrobenzene	1	12.269	12.269	0.000	112611	0.2510	0.2564	
$ 10 1,2-Dinitrobenzene	1	13.276	13.276	0.000	71391	0.2500	0.2509	
11 3,5-Dinitroaniline	1	15.209	15.209	0.000	119858	0.2500	0.2414	
12 1,3-Dinitrobenzene	1	15.809	15.809	0.000	161637	0.2505	0.2398	
13 Nitroglycerin	2	16.056	16.056	0.000	332631	2.50	2.62	M
14 o-Nitrotoluene	1	16.743	16.743	0.000	65380	0.2500	0.2395	M
15 p-Nitrotoluene	1	17.023	17.023	0.000	61335	0.2505	0.2546	M
16 4-Amino-2,6-dinitrotoluene	1	17.463	17.463	0.000	81439	0.2503	0.2359	M
17 m-Nitrotoluene	1	17.956	17.956	0.000	77333	0.2503	0.2592	M
18 2-Amino-4,6-dinitrotoluene	1	18.396	18.396	0.000	114685	0.2510	0.2465	M
19 1,3,5-Trinitrobenzene	1	19.136	19.136	0.000	119301	0.2505	0.2525	M
20 2,6-Dinitrotoluene	1	20.056	20.056	0.000	77516	0.2510	0.2527	M
21 2,4-Dinitrotoluene	1	20.570	20.570	0.000	155857	0.2510	0.2435	M
22 Tetryl	1	23.870	23.870	0.000	87263	0.2505	0.2367	
23 2,4,6-Trinitrotoluene	1	24.883	24.883	0.000	98815	0.2510	0.2382	
24 PETN	2	25.430	25.430	0.000	351293	2.50	2.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

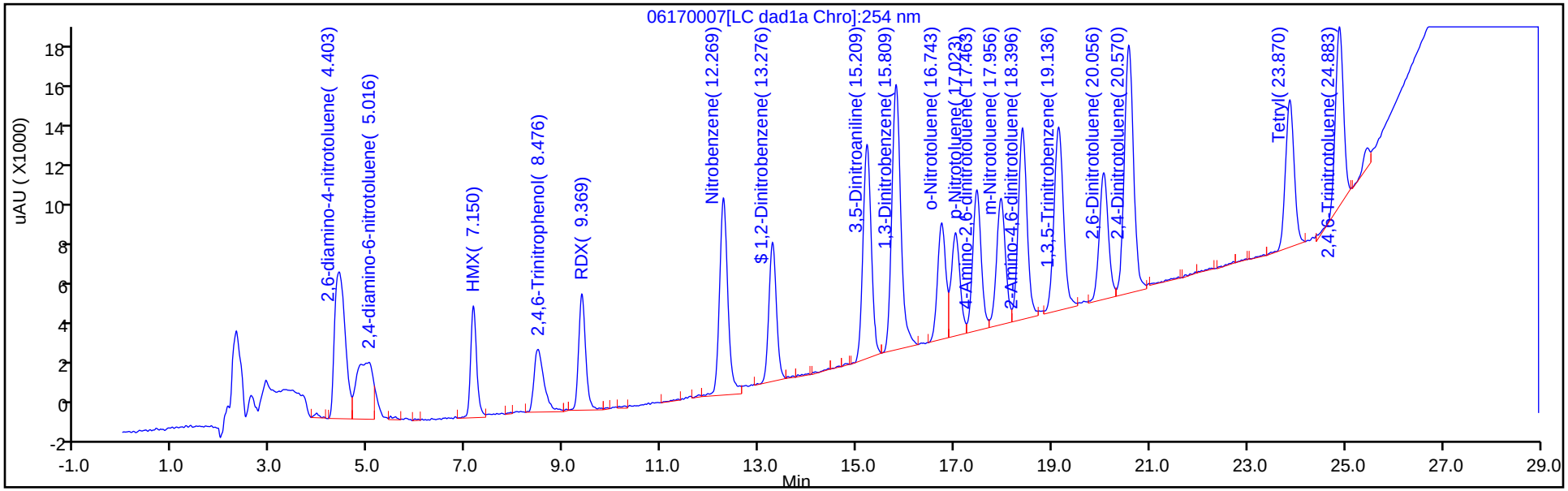
8330IntermStk_00064	Amount Added: 25.00	Units: uL
8330_ADDs_00027	Amount Added: 12.50	Units: uL

Report Date: 18-Jun-2020 17:36:30 Chrom Revision: 2.3 17-Jun-2020 19:07:08

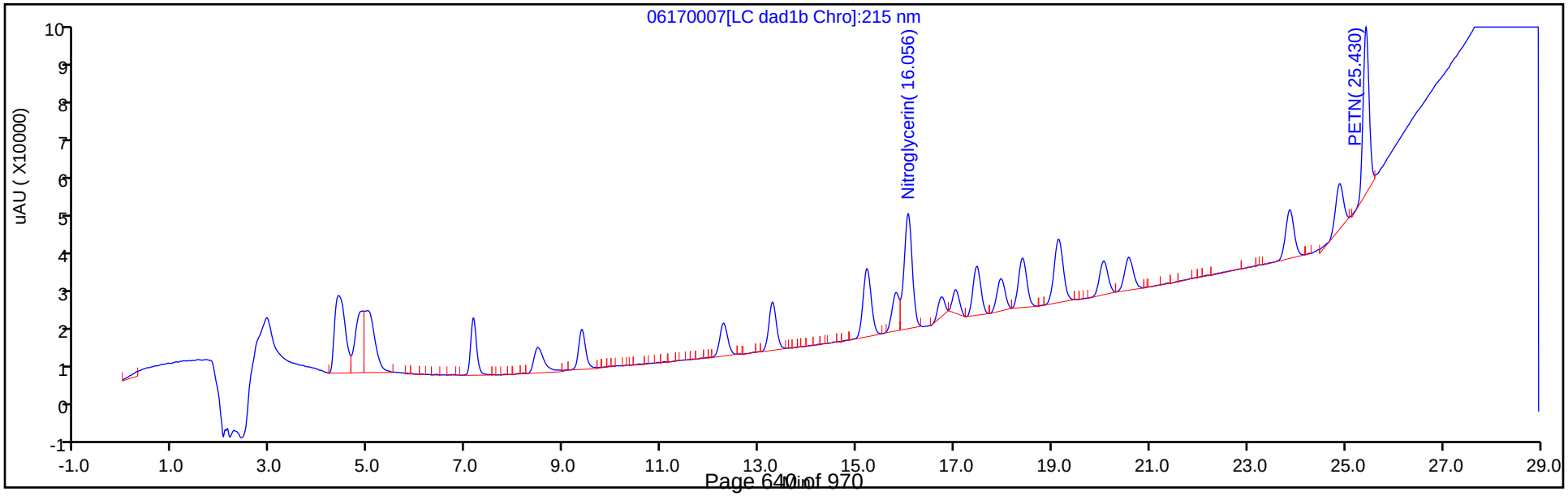
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

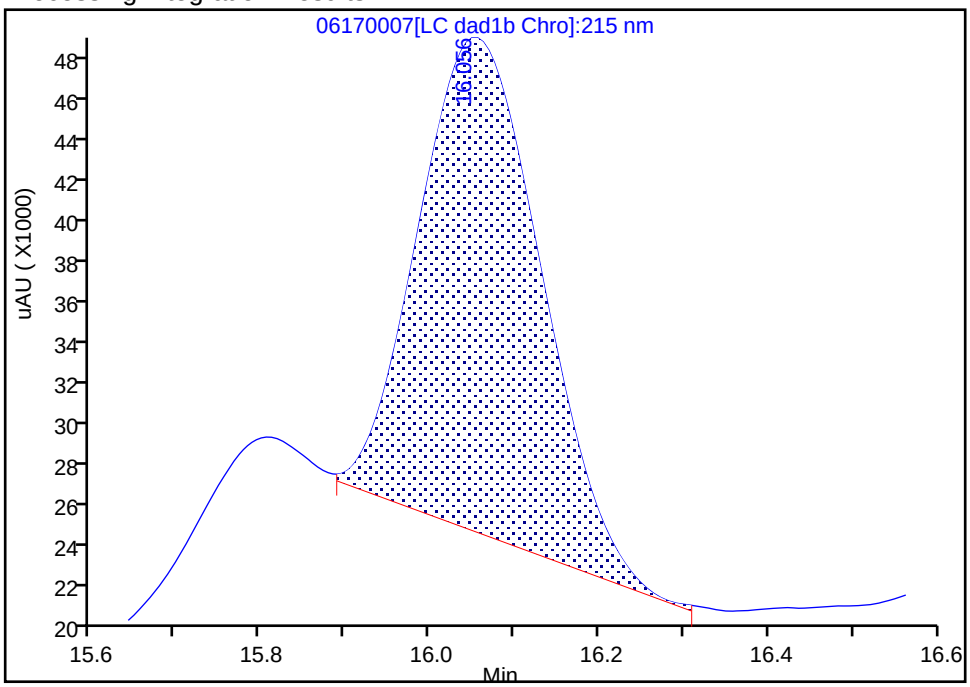
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

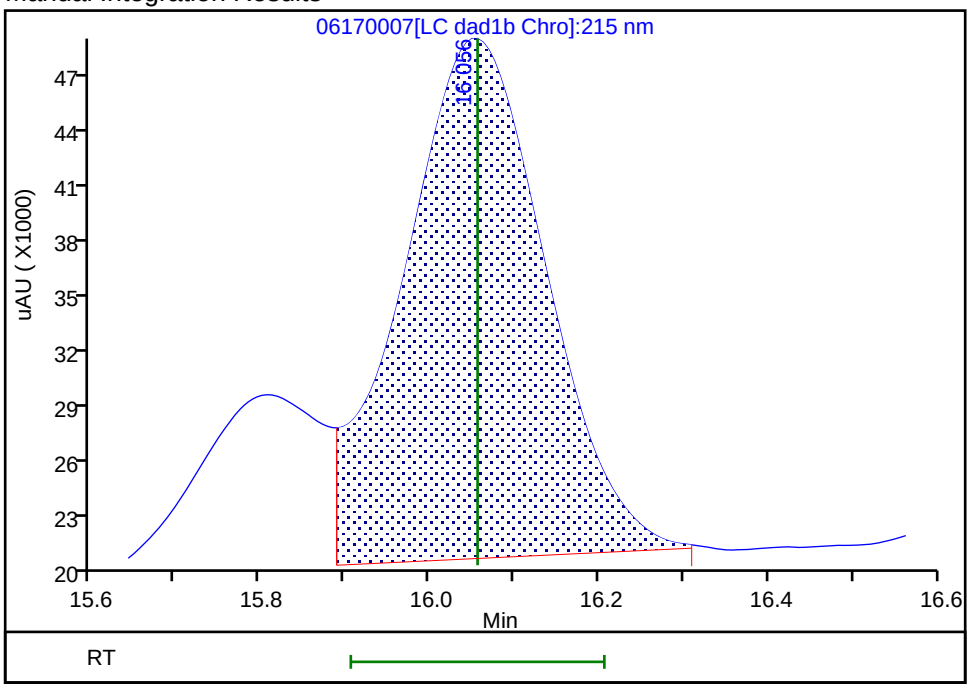
Processing Integration Results

RT: 16.06
Area: 243789
Amount: 1.922576
Amount Units: ug/ml



Manual Integration Results

RT: 16.06
Area: 332631
Amount: 2.623204
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:43
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

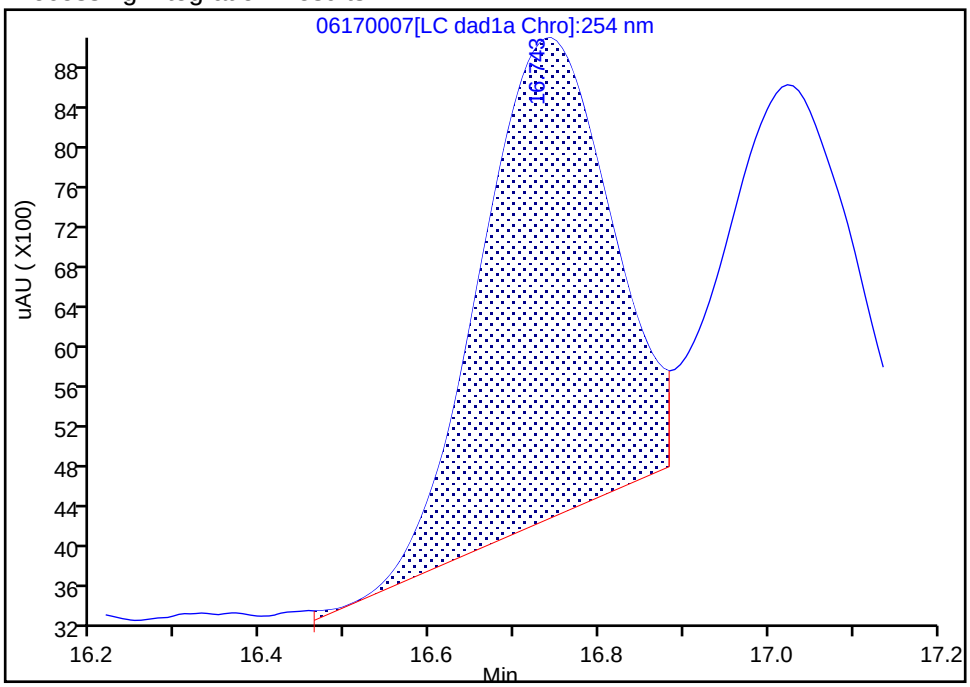
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

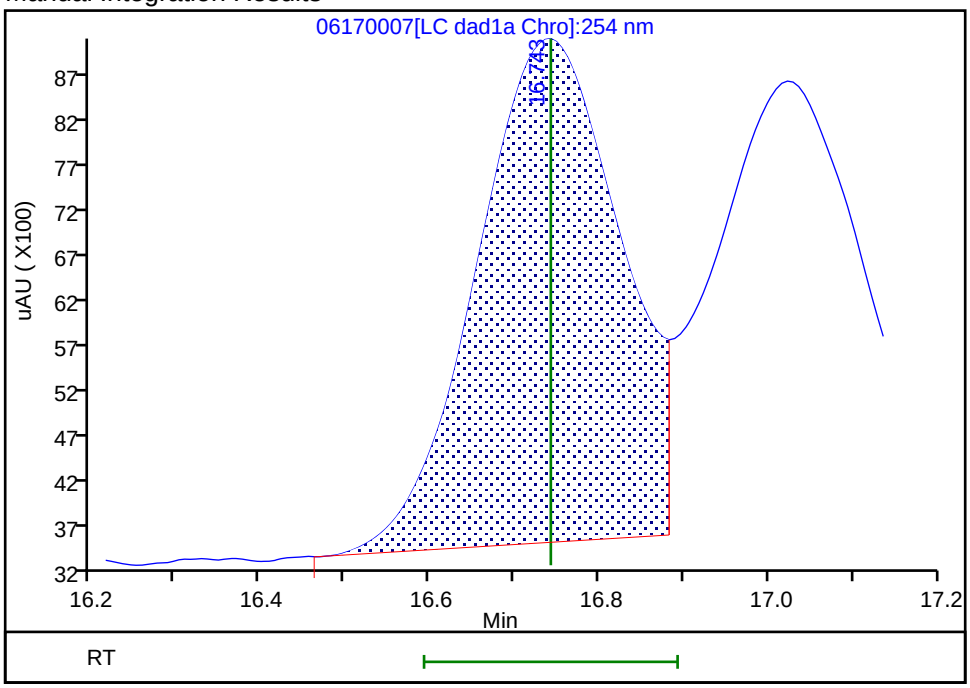
Processing Integration Results

RT: 16.74
Area: 51470
Amount: 0.188559
Amount Units: ug/ml



Manual Integration Results

RT: 16.74
Area: 65380
Amount: 0.239518
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

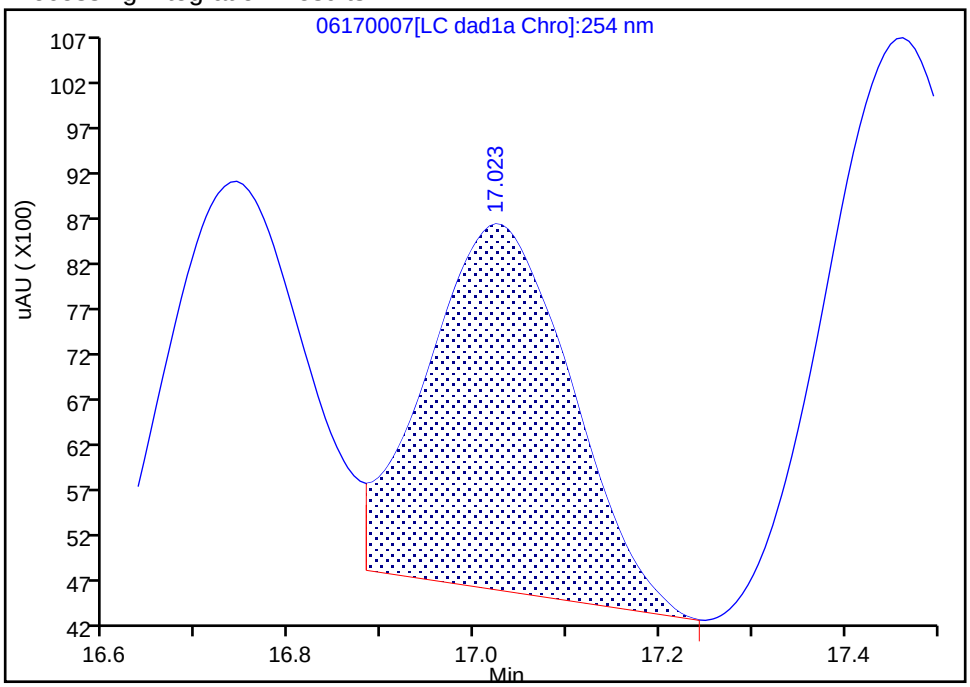
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

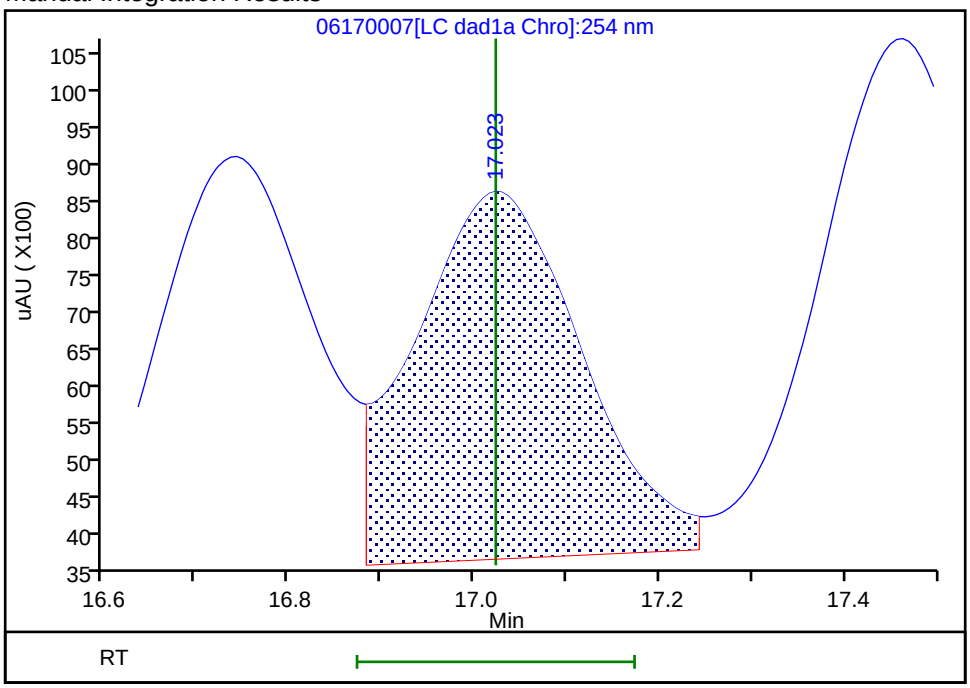
Processing Integration Results

RT: 17.02
Area: 43667
Amount: 0.181280
Amount Units: ug/ml



Manual Integration Results

RT: 17.02
Area: 61335
Amount: 0.254627
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

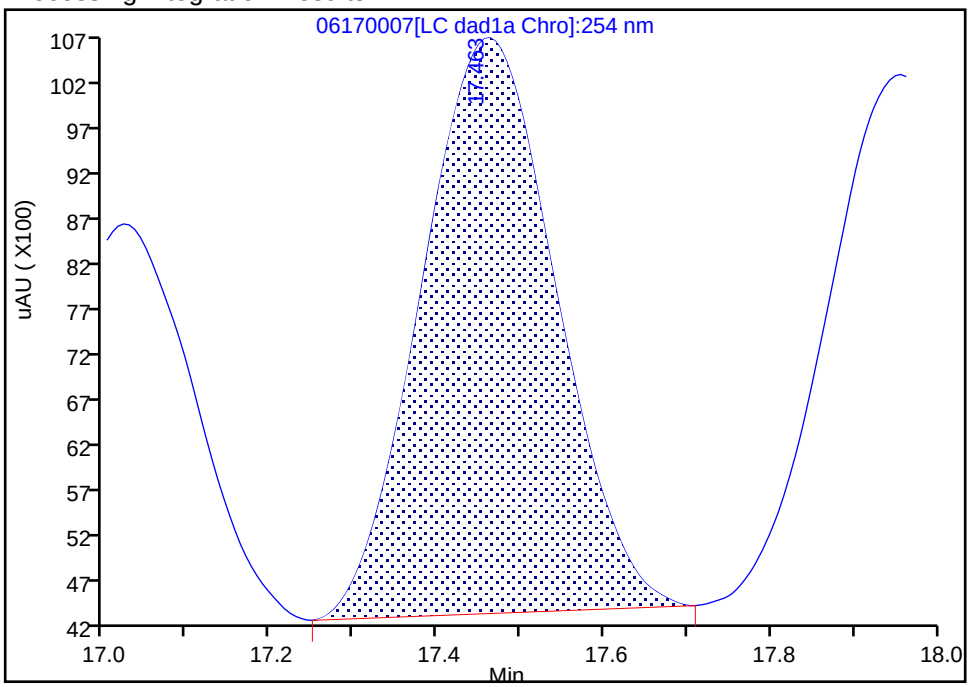
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

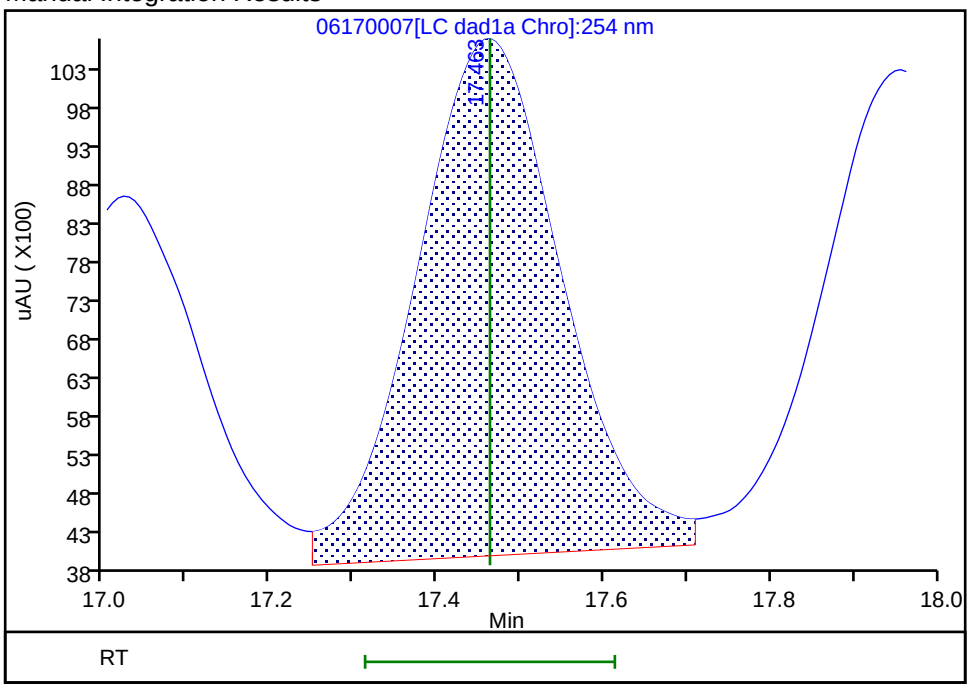
Processing Integration Results

RT: 17.46
Area: 70813
Amount: 0.205116
Amount Units: ug/ml



Manual Integration Results

RT: 17.46
Area: 81439
Amount: 0.235895
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

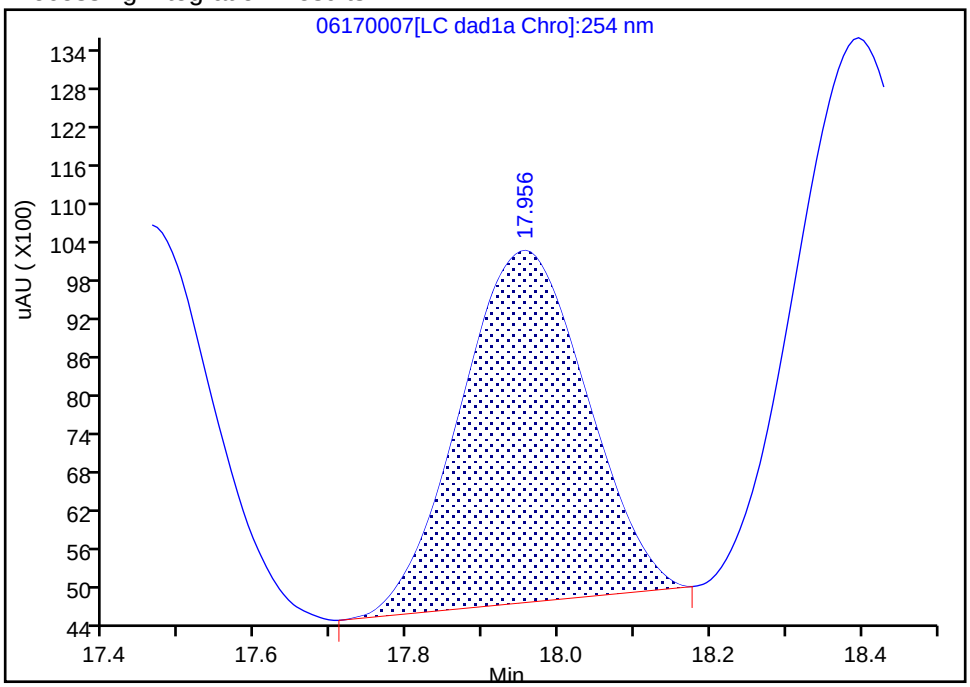
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

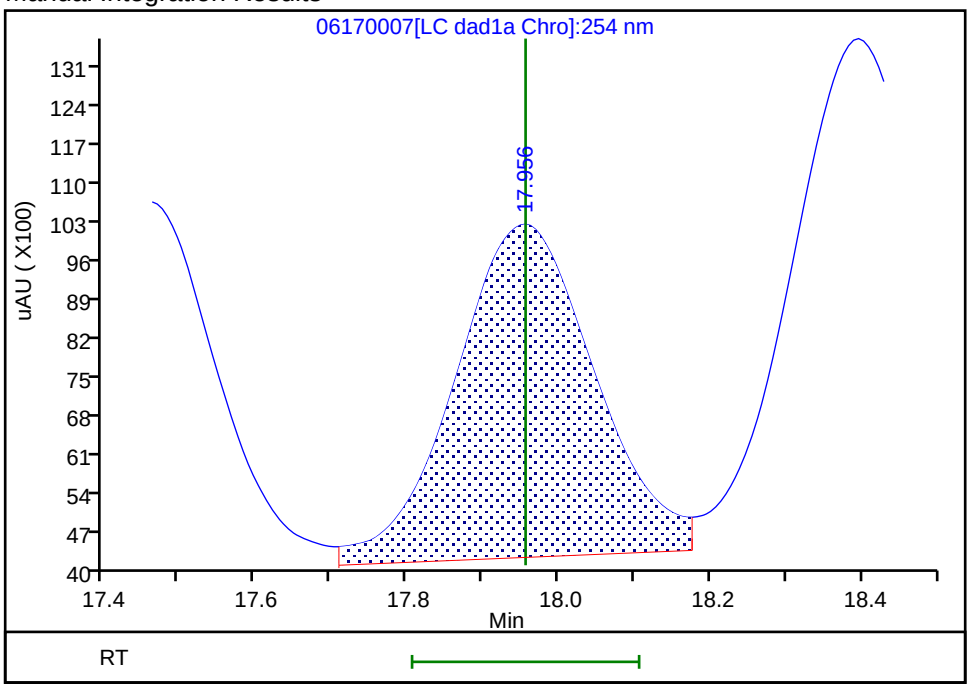
Processing Integration Results

RT: 17.96
Area: 64285
Amount: 0.215485
Amount Units: ug/ml



Manual Integration Results

RT: 17.96
Area: 77333
Amount: 0.259222
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

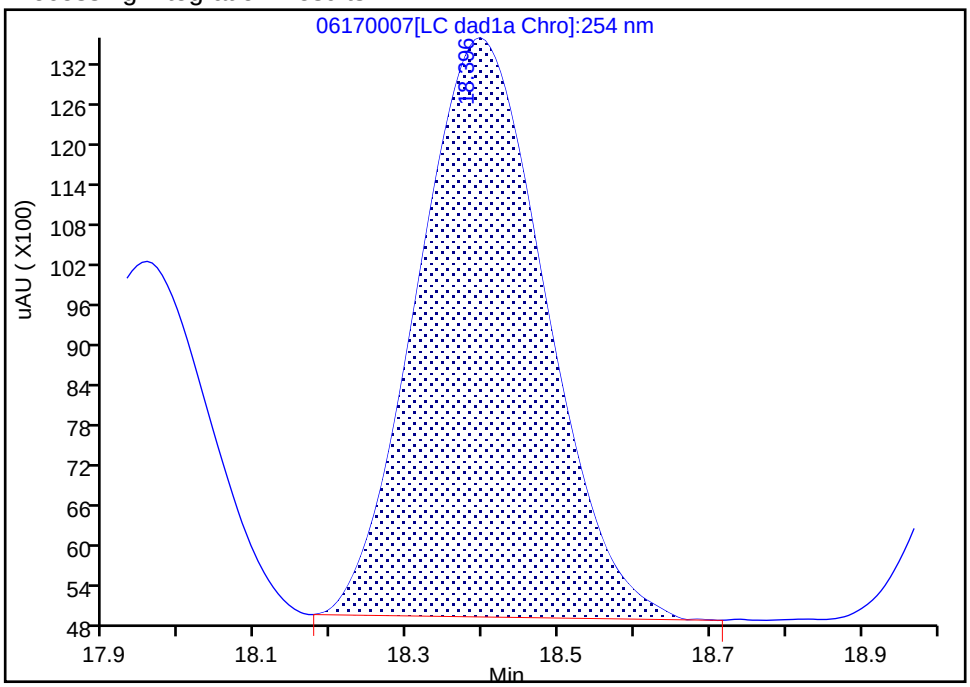
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

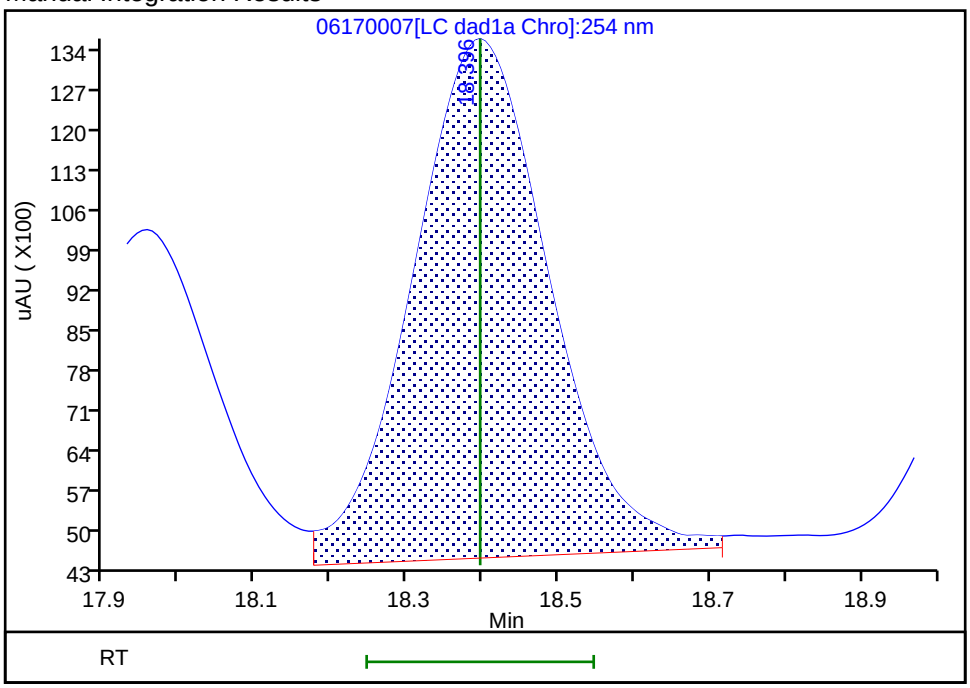
Processing Integration Results

RT: 18.40
Area: 101725
Amount: 0.218664
Amount Units: ug/ml



Manual Integration Results

RT: 18.40
Area: 114685
Amount: 0.246523
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

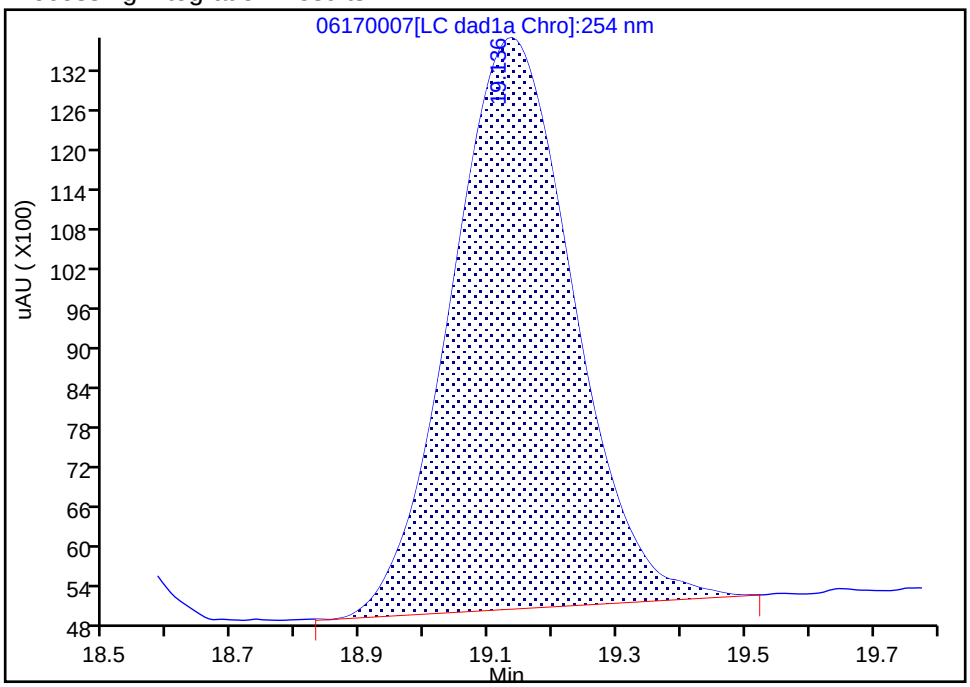
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

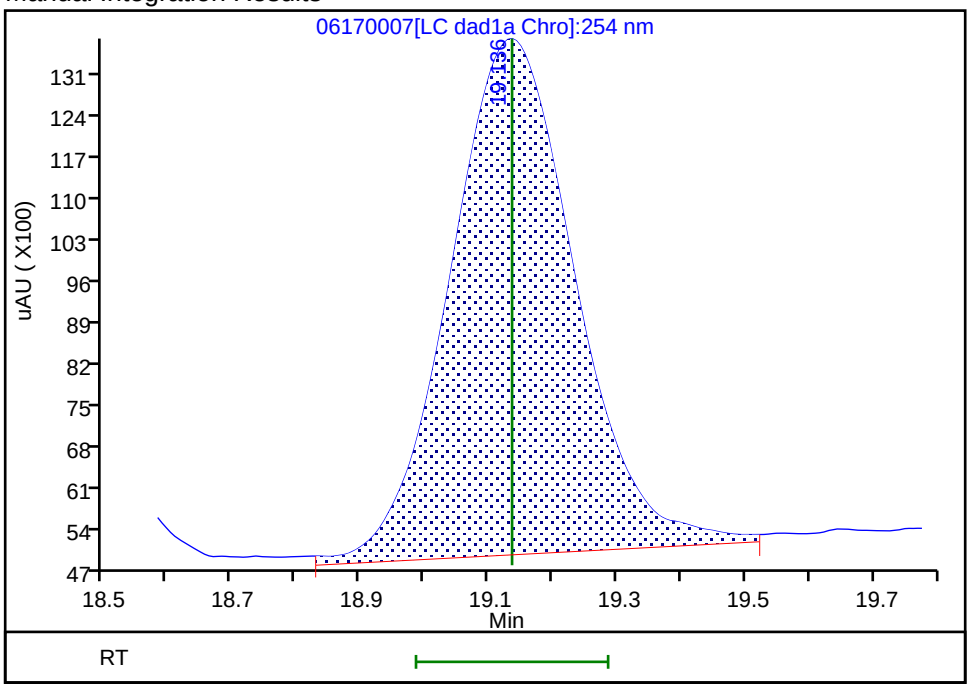
Processing Integration Results

RT: 19.14
Area: 113976
Amount: 0.241244
Amount Units: ug/ml



Manual Integration Results

RT: 19.14
Area: 119301
Amount: 0.252515
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

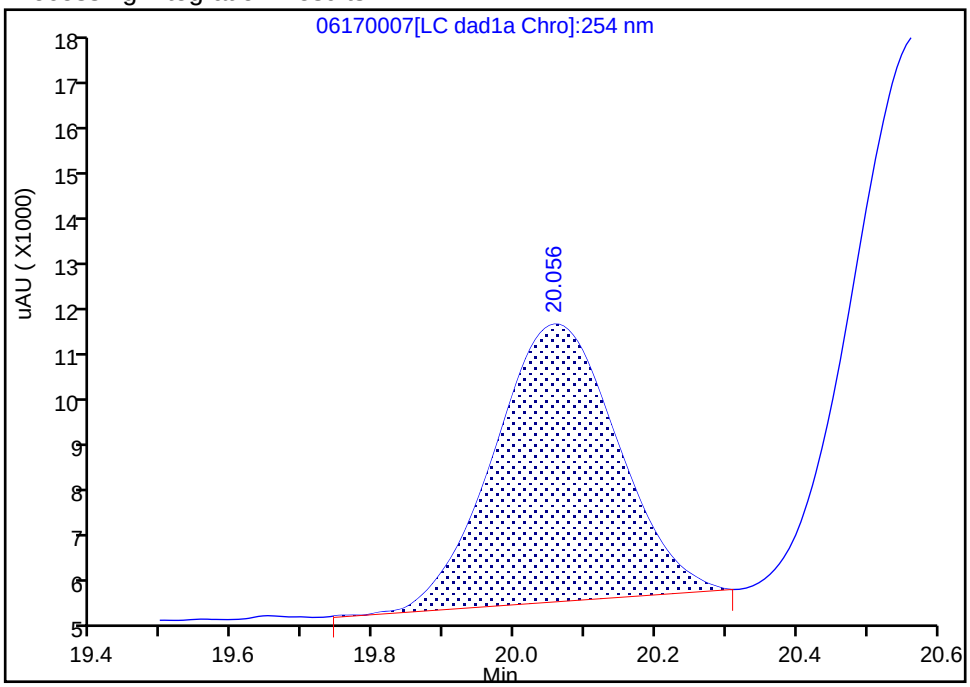
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

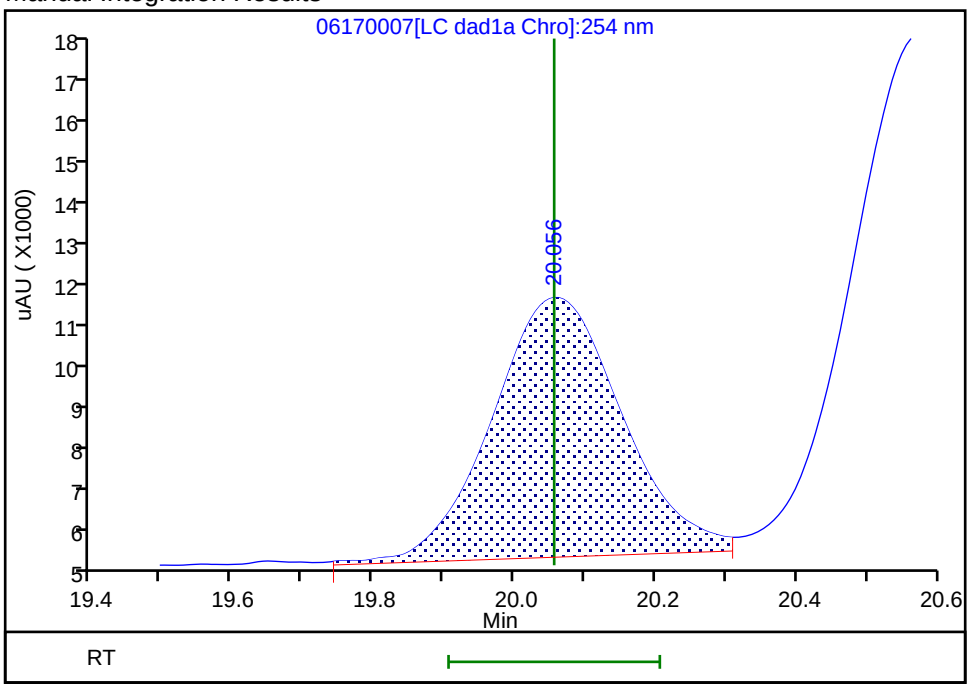
Processing Integration Results

RT: 20.06
Area: 71158
Amount: 0.230698
Amount Units: ug/ml



Manual Integration Results

RT: 20.06
Area: 77516
Amount: 0.252681
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

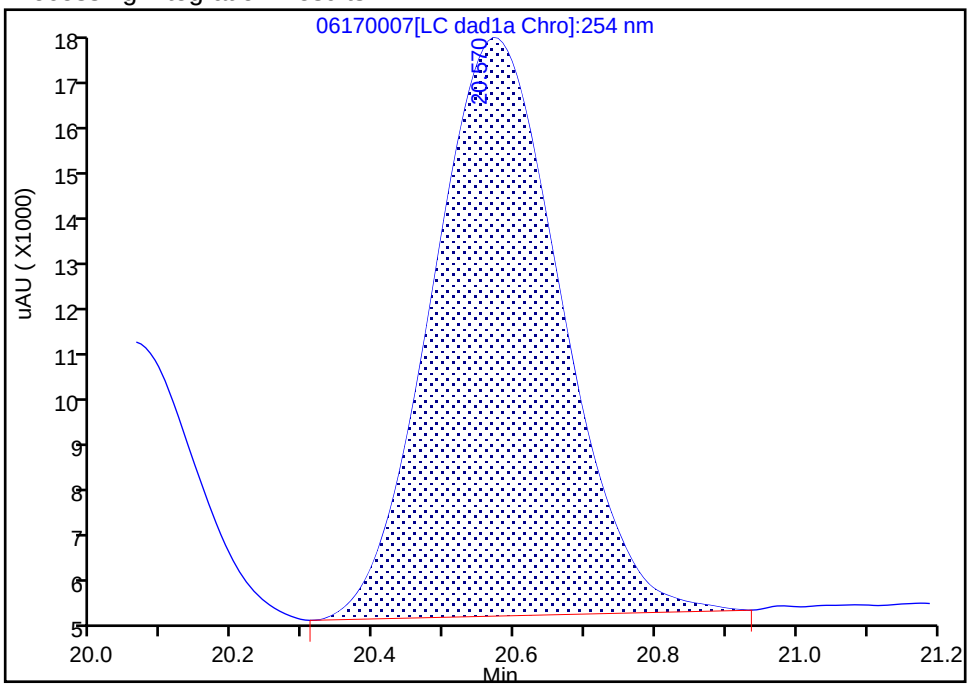
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170007.d				
Injection Date:	17-Jun-2020 17:55:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

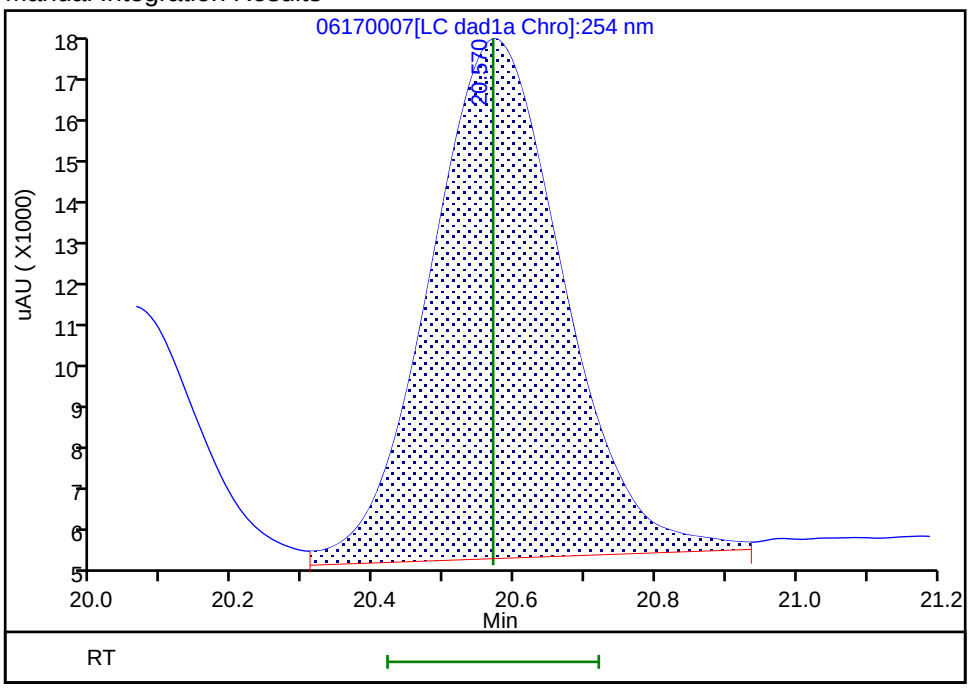
Processing Integration Results

RT: 20.57
Area: 146852
Amount: 0.229416
Amount Units: ug/ml



Manual Integration Results

RT: 20.57
Area: 155857
Amount: 0.243483
Amount Units: ug/ml



Reviewer: zhangji, 17-Jun-2020 18:49:38
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/8 Calibration Date: 06/17/2020 18:30

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06170008.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	412843		237	250	-5.3	15.0
DNX	Ave	321206	310861		242	250	-3.2	15.0
MNX	Lin2		288891		296	292	1.3	15.0

FORM VII 8330A

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/8 Calibration Date: 06/17/2020 18:30

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06170008.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.53	5.36	5.66
DNX	6.37	6.19	6.49
MNX	7.93	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170008.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	17-Jun-2020 18:30:14	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092518-008				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:29	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 17-Jun-2020 20:03:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.534	5.509	0.025	103314	0.2503	0.2371	
4 DNX	1	6.374	6.336	0.038	77793	0.2503	0.2422	
7 MNX	1	7.927	7.876	0.051	84284	0.2918	0.2955	

Reagents:

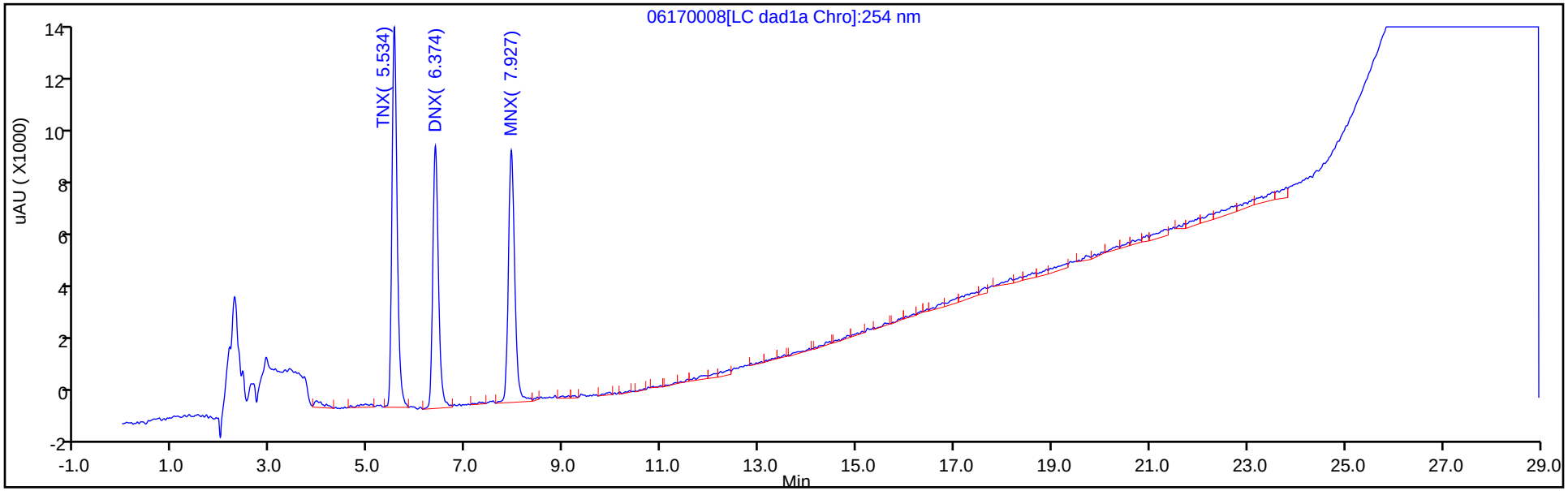
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 18-Jun-2020 17:36:29 Chrom Revision: 2.3 17-Jun-2020 19:07:08

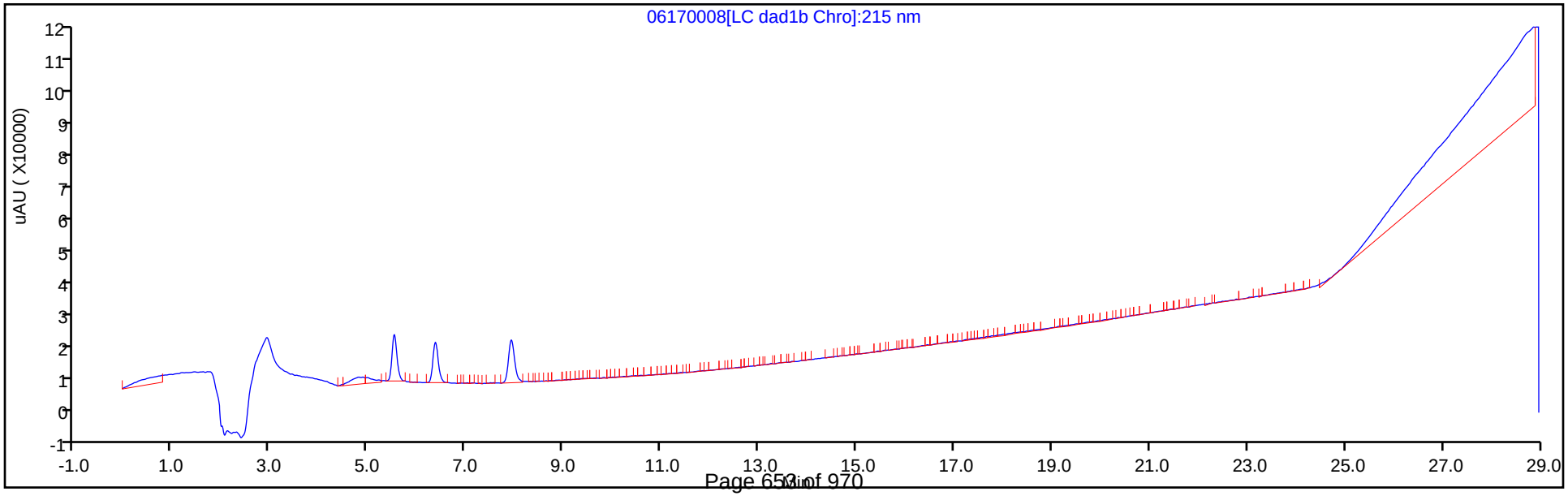
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170008.d				
Injection Date:	17-Jun-2020 18:30:14	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/19 Calibration Date: 06/18/2020 00:55

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06170019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		187108		234	250	-6.3	15.0
Picric acid	Ave	193810	178712		231	250	-7.8	15.0
RDX	Ave	244360	220256		225	250	-9.9	15.0
Nitrobenzene	Ave	439227	410837		235	251	-6.5	15.0
1,3-Dinitrobenzene	Ave	674189	645042		240	251	-4.3	15.0
Nitroglycerin	Ave	126803	138939		2740	2500	9.6	15.0
2-Nitrotoluene	Ave	272965	245980		225	250	-9.9	15.0
4-Nitrotoluene	Ave	240881	232966		242	251	-3.3	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	320436		232	250	-7.2	15.0
3-Nitrotoluene	Ave	298327	297051		249	250	-0.4	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	452749		244	251	-2.7	15.0
1,3,5-Trinitrobenzene	Ave	472451	477190		253	251	1.0	15.0
2,6-Dinitrotoluene	Lin2		315307		258	251	2.9	15.0
2,4-Dinitrotoluene	Ave	640113	621988		244	251	-2.8	15.0
Tetryl	Ave	368678	351912		239	251	-4.5	15.0
2,4,6-Trinitrotoluene	Lin1		397689		241	251	-4.1	15.0
PETN	Lin1		140956		2510	2500	0.6	15.0
1,2-Dinitrobenzene	Lin1		287404		253	250	1.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/19 Calibration Date: 06/18/2020 00:55

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06170019.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.16	7.00	7.30
Picric acid	8.44	8.33	8.63
RDX	9.38	9.22	9.52
Nitrobenzene	12.27	12.12	12.42
1,3-Dinitrobenzene	15.81	15.66	15.96
Nitroglycerin	16.04	15.91	16.21
2-Nitrotoluene	16.73	16.59	16.89
4-Nitrotoluene	17.02	16.87	17.17
4-Amino-2,6-dinitrotoluene	17.46	17.31	17.61
3-Nitrotoluene	17.95	17.81	18.11
2-Amino-4,6-dinitrotoluene	18.39	18.25	18.55
1,3,5-Trinitrobenzene	19.13	18.99	19.29
2,6-Dinitrotoluene	20.05	19.91	20.21
2,4-Dinitrotoluene	20.57	20.42	20.72
Tetryl	23.87	23.72	24.02
2,4,6-Trinitrotoluene	24.89	24.73	25.03
PETN	25.41	25.28	25.58
1,2-Dinitrobenzene	13.28	13.13	13.43

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170019.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Jun-2020 00:55:01 ALS Bottle#: 7 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092518-019
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 17:36:24 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 14:09:49

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	4.393	4.403	-0.010	107435	0.2500	0.2502	M
2 2,4-diamino-6-nitrotoluene	1	5.000	5.016	-0.016	71257	0.2500	0.2764	
6 HMX	1	7.160	7.150	0.010	46777	0.2500	0.2342	
5 2,4,6-Trinitrophenol	1	8.440	8.476	-0.036	44678	0.2500	0.2305	
8 RDX	1	9.379	9.369	0.010	55064	0.2500	0.2253	
9 Nitrobenzene	1	12.273	12.269	0.004	103120	0.2510	0.2348	
$ 10 1,2-Dinitrobenzene	1	13.279	13.276	0.003	71851	0.2500	0.2525	
11 3,5-Dinitroaniline	1	15.213	15.209	0.004	121007	0.2500	0.2438	
12 1,3-Dinitrobenzene	1	15.806	15.809	-0.003	161583	0.2505	0.2397	
13 Nitroglycerin	2	16.039	16.056	-0.017	347347	2.50	2.74	M
14 o-Nitrotoluene	1	16.733	16.743	-0.010	61495	0.2500	0.2253	M
15 p-Nitrotoluene	1	17.019	17.023	-0.004	58358	0.2505	0.2423	M
16 4-Amino-2,6-dinitrotoluene	1	17.459	17.463	-0.004	80189	0.2503	0.2323	M
17 m-Nitrotoluene	1	17.946	17.956	-0.010	74337	0.2503	0.2492	M
18 2-Amino-4,6-dinitrotoluene	1	18.393	18.396	-0.003	113640	0.2510	0.2443	M
19 1,3,5-Trinitrobenzene	1	19.133	19.136	-0.003	119536	0.2505	0.2530	M
20 2,6-Dinitrotoluene	1	20.053	20.056	-0.003	79142	0.2510	0.2583	M
21 2,4-Dinitrotoluene	1	20.566	20.570	-0.003	156119	0.2510	0.2439	M
22 Tetryl	1	23.866	23.870	-0.004	88154	0.2505	0.2391	
23 2,4,6-Trinitrotoluene	1	24.886	24.883	0.003	99820	0.2510	0.2407	
24 PETN	2	25.413	25.430	-0.017	352391	2.50	2.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

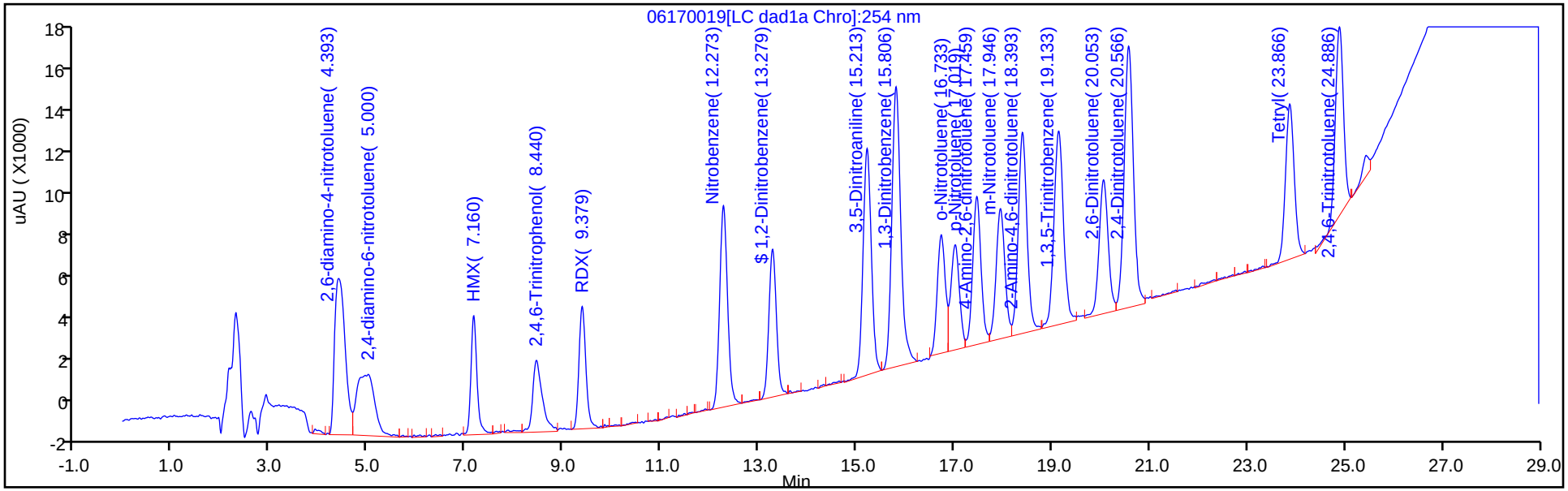
8330IntermStk_00064	Amount Added: 25.00	Units: uL
8330_ADDs_00027	Amount Added: 12.50	Units: uL

Report Date: 18-Jun-2020 17:36:24 Chrom Revision: 2.3 17-Jun-2020 19:07:08

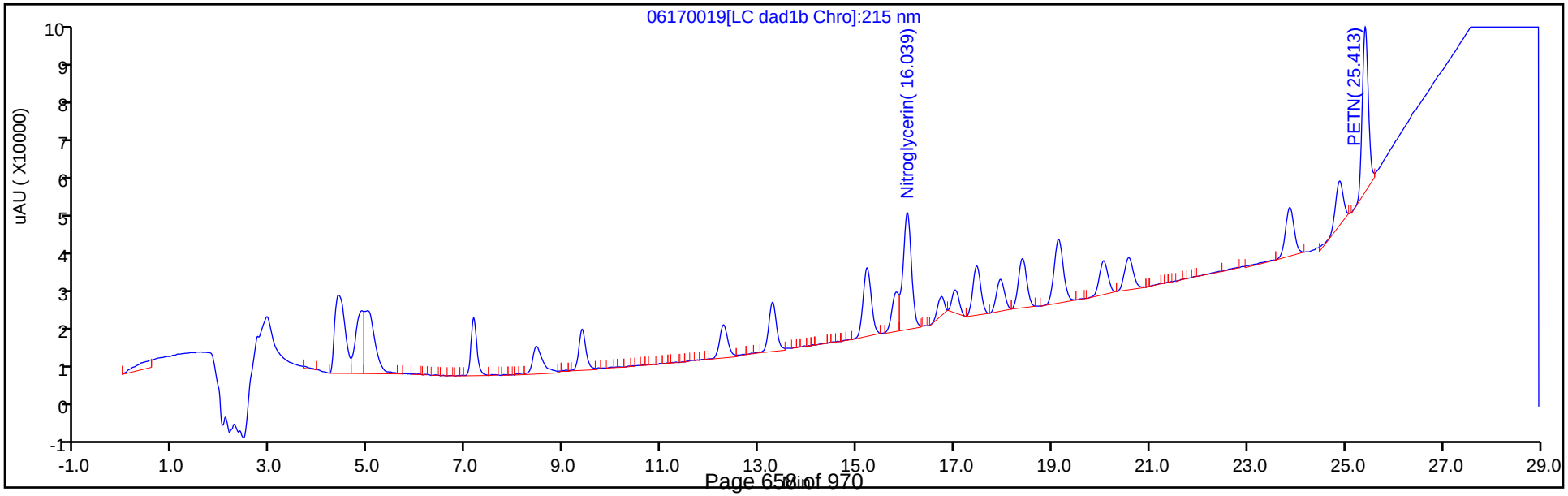
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

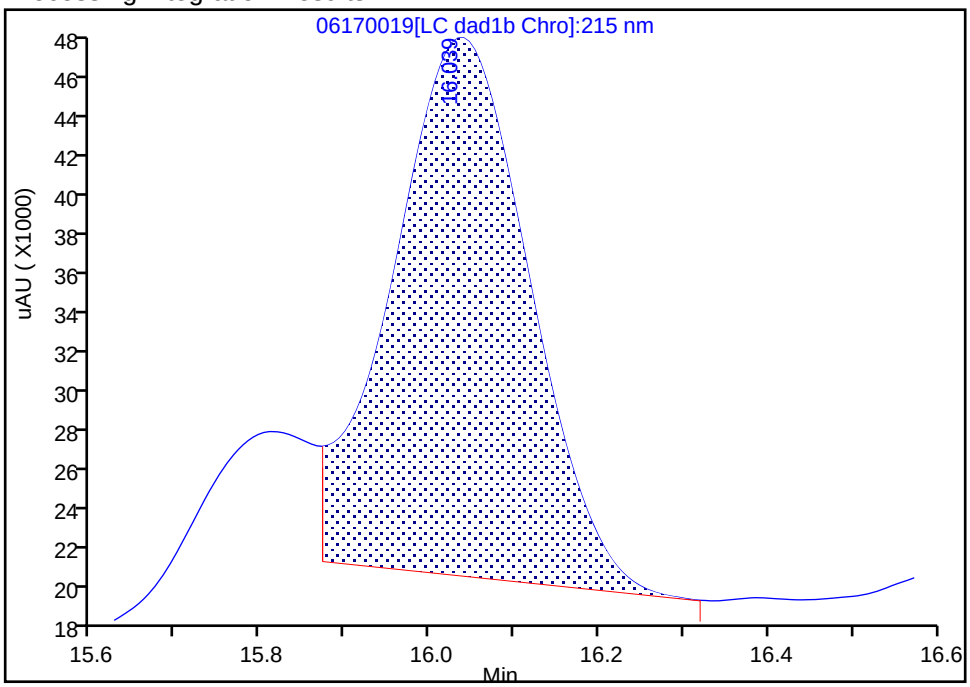
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

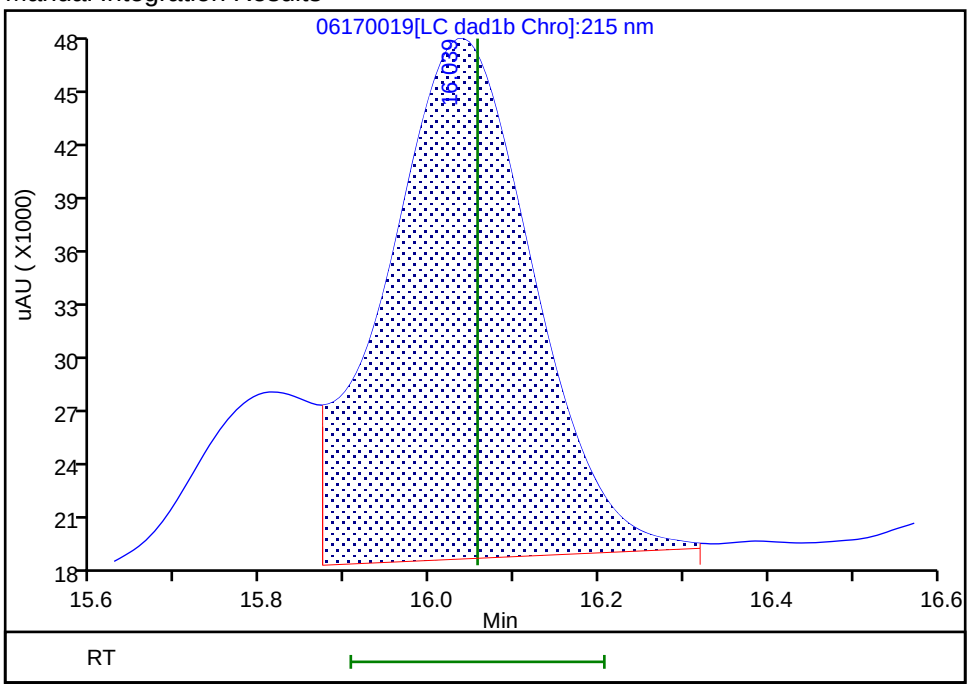
Processing Integration Results

RT: 16.04
Area: 302122
Amount: 2.382603
Amount Units: ug/ml



Manual Integration Results

RT: 16.04
Area: 347347
Amount: 2.739258
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:35
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

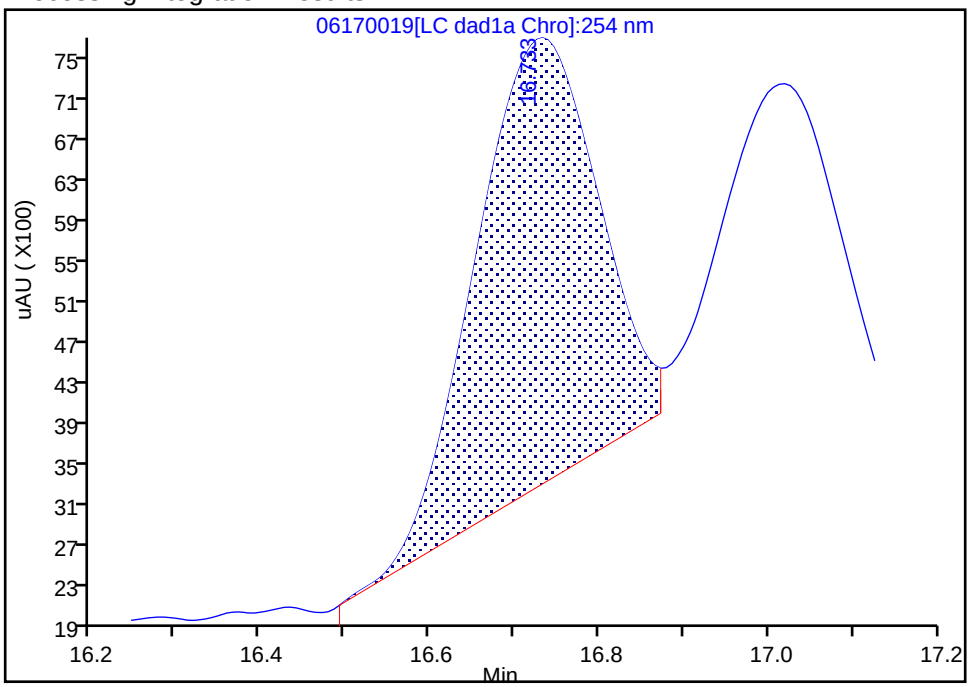
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

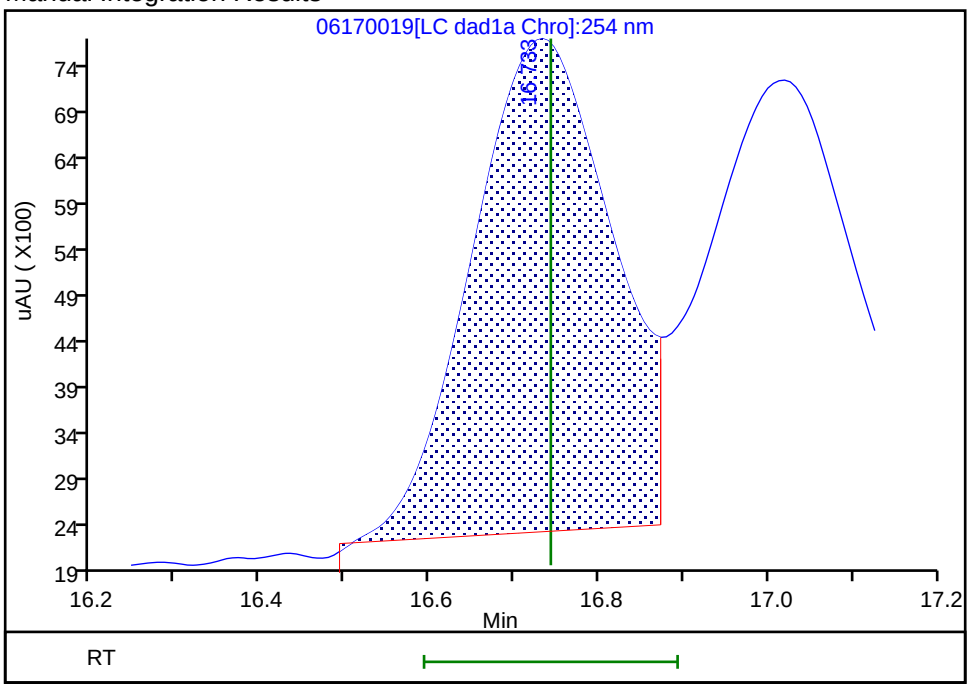
Processing Integration Results

RT: 16.73
Area: 44315
Amount: 0.162347
Amount Units: ug/ml



Manual Integration Results

RT: 16.73
Area: 61495
Amount: 0.225286
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

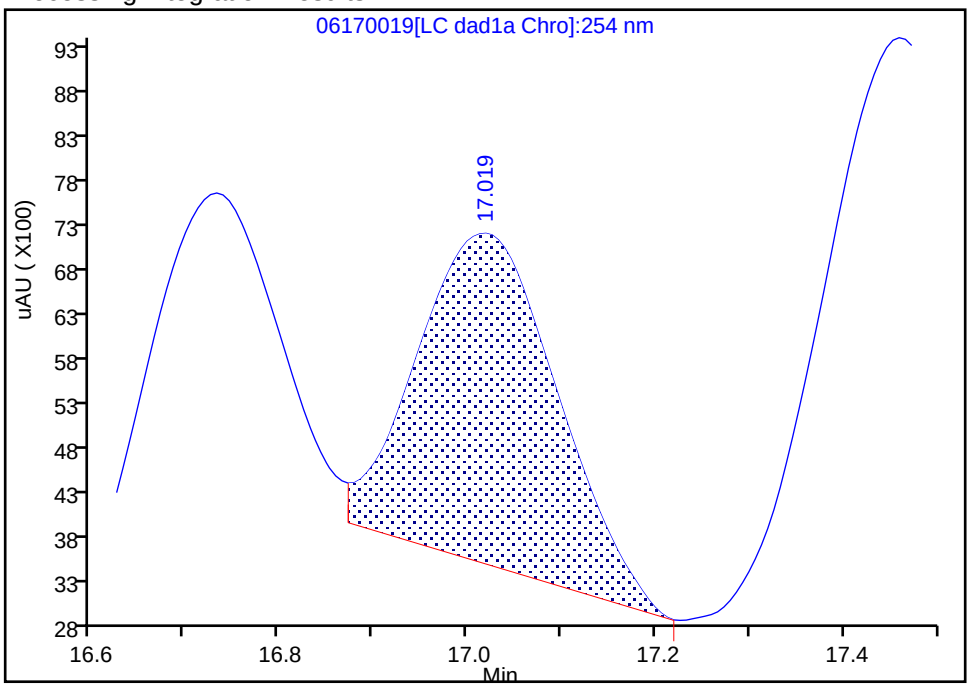
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

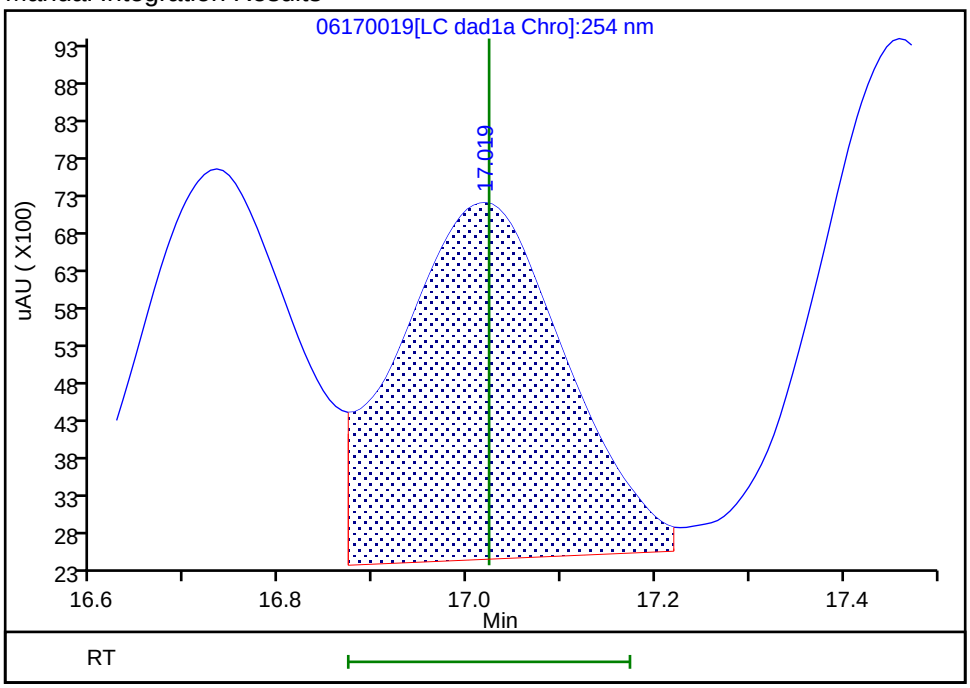
Processing Integration Results

RT: 17.02
Area: 38525
Amount: 0.159934
Amount Units: ug/ml



Manual Integration Results

RT: 17.02
Area: 58358
Amount: 0.242269
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

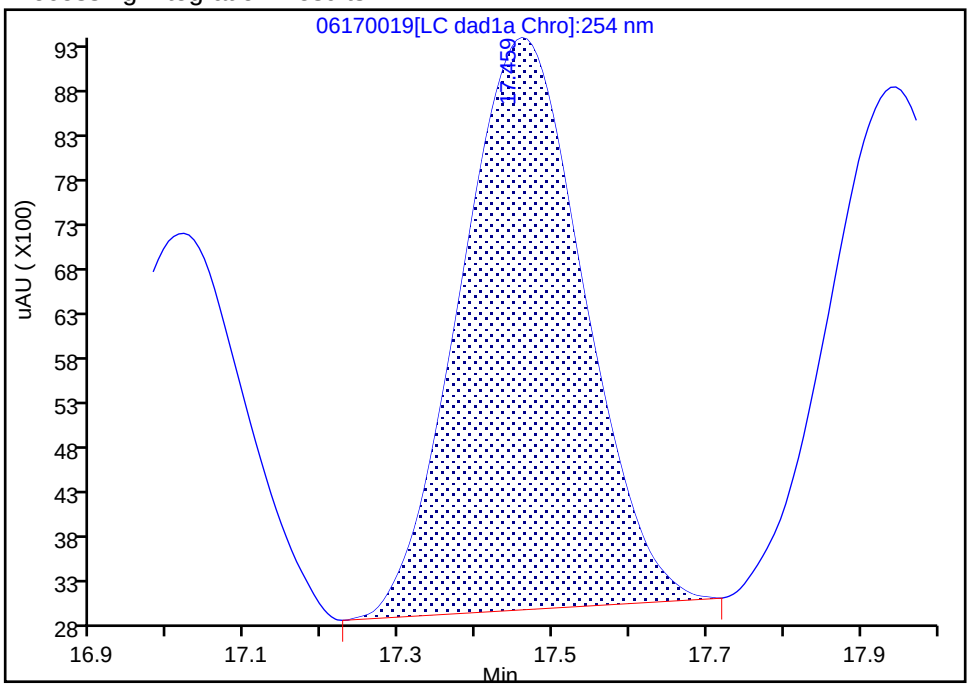
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

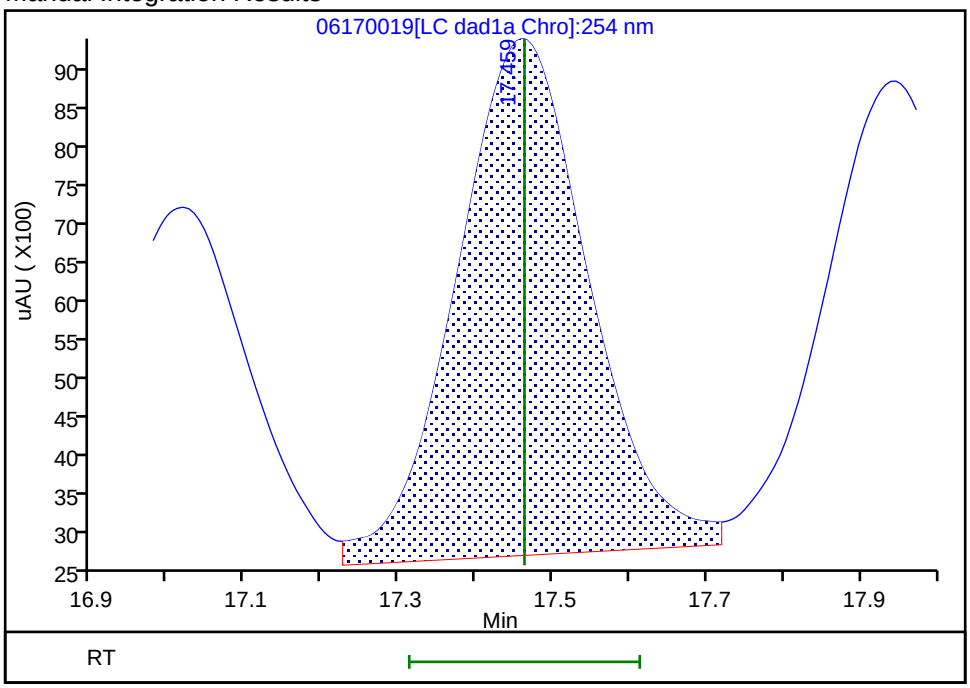
Processing Integration Results

RT: 17.46
Area: 71280
Amount: 0.206468
Amount Units: ug/ml



Manual Integration Results

RT: 17.46
Area: 80189
Amount: 0.232274
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

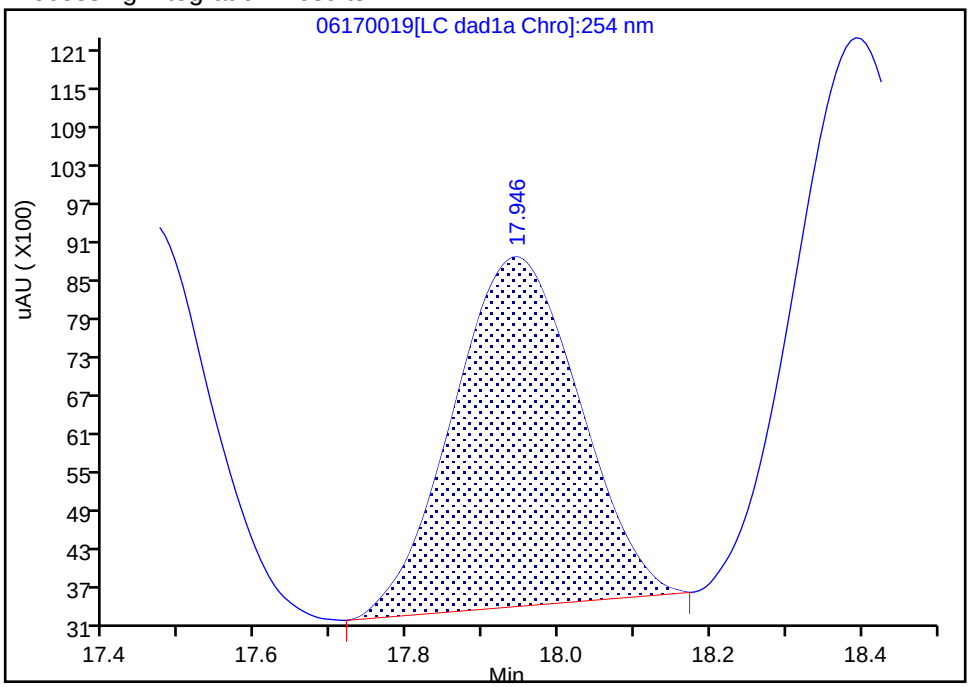
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

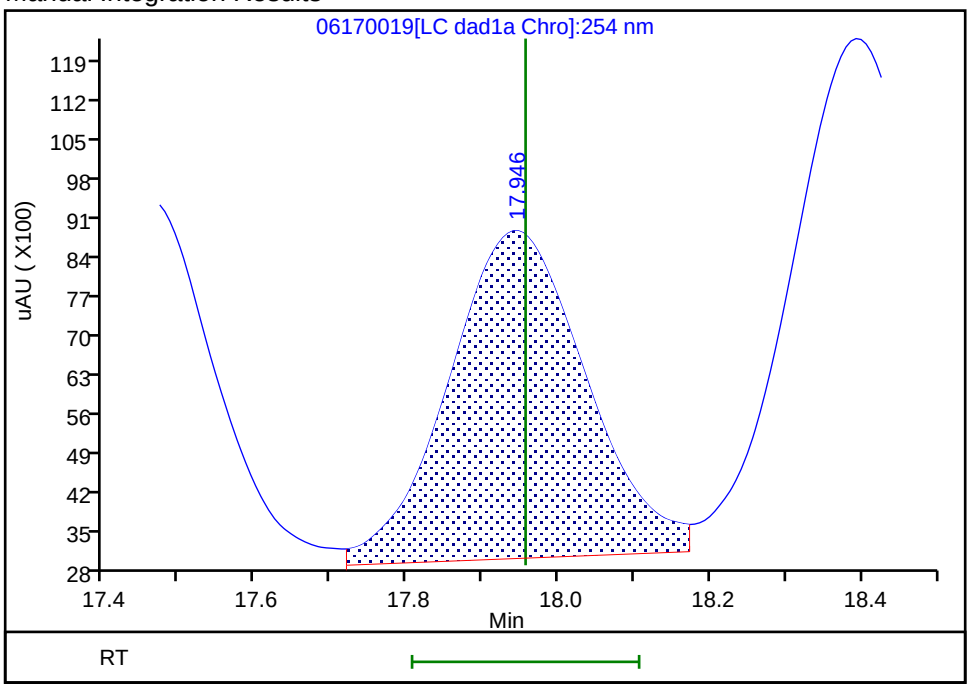
Processing Integration Results

RT: 17.95
Area: 63742
Amount: 0.213665
Amount Units: ug/ml



Manual Integration Results

RT: 17.95
Area: 74337
Amount: 0.249180
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

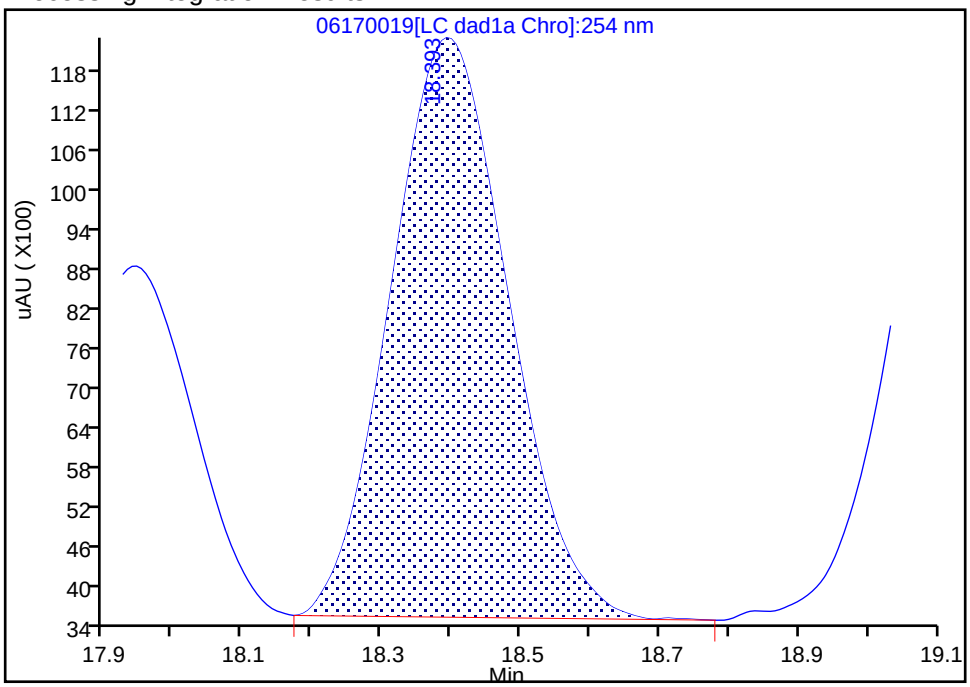
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

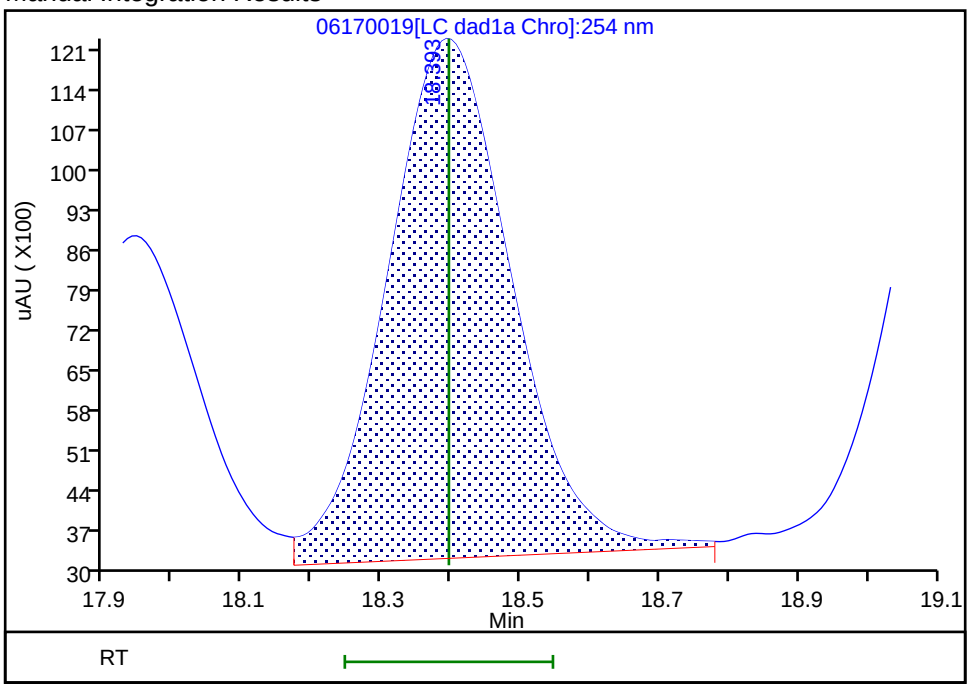
Processing Integration Results

RT: 18.39
Area: 103157
Amount: 0.221742
Amount Units: ug/ml



Manual Integration Results

RT: 18.39
Area: 113640
Amount: 0.244276
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

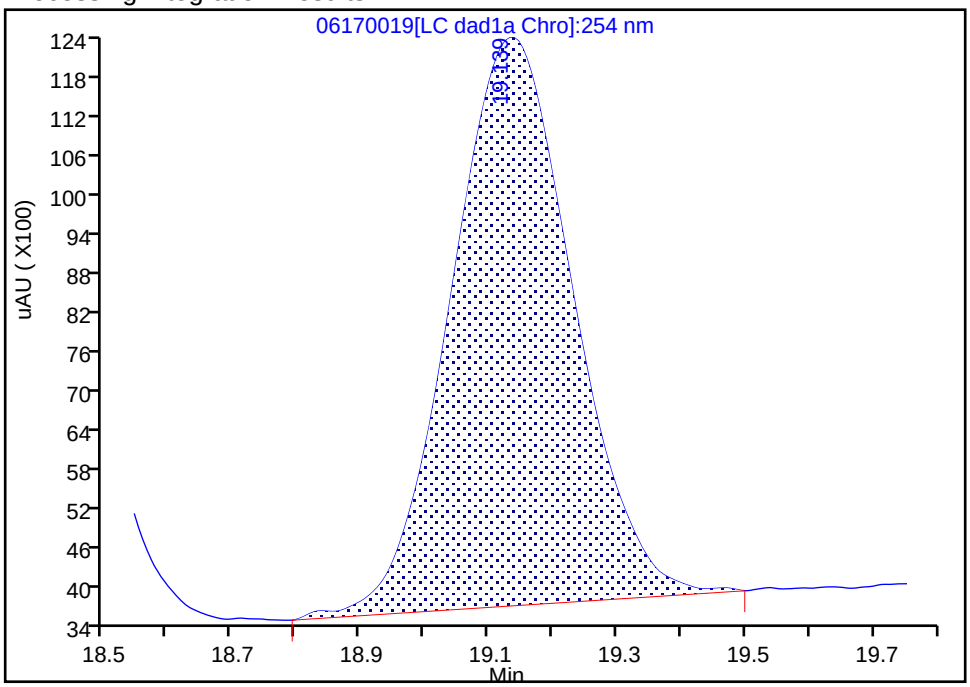
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

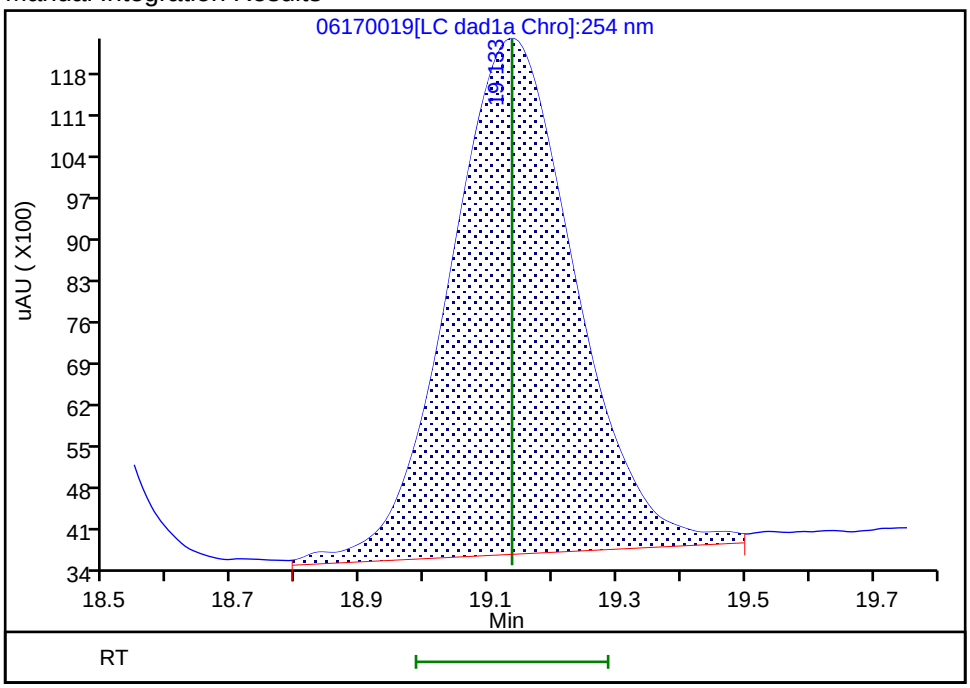
Processing Integration Results

RT: 19.14
Area: 114660
Amount: 0.242692
Amount Units: ug/ml



Manual Integration Results

RT: 19.13
Area: 119536
Amount: 0.253013
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

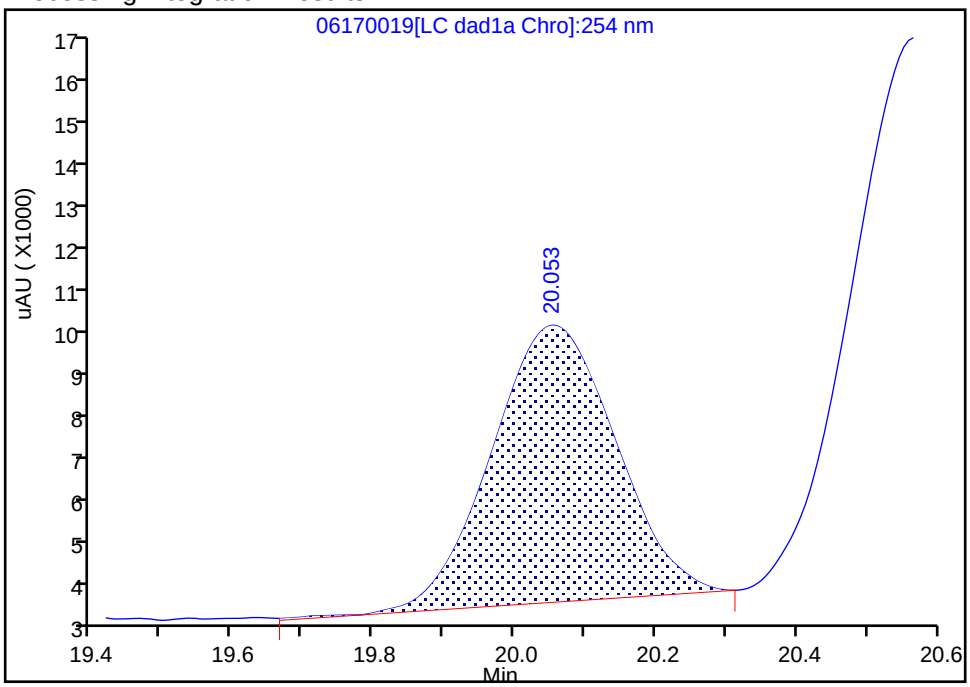
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

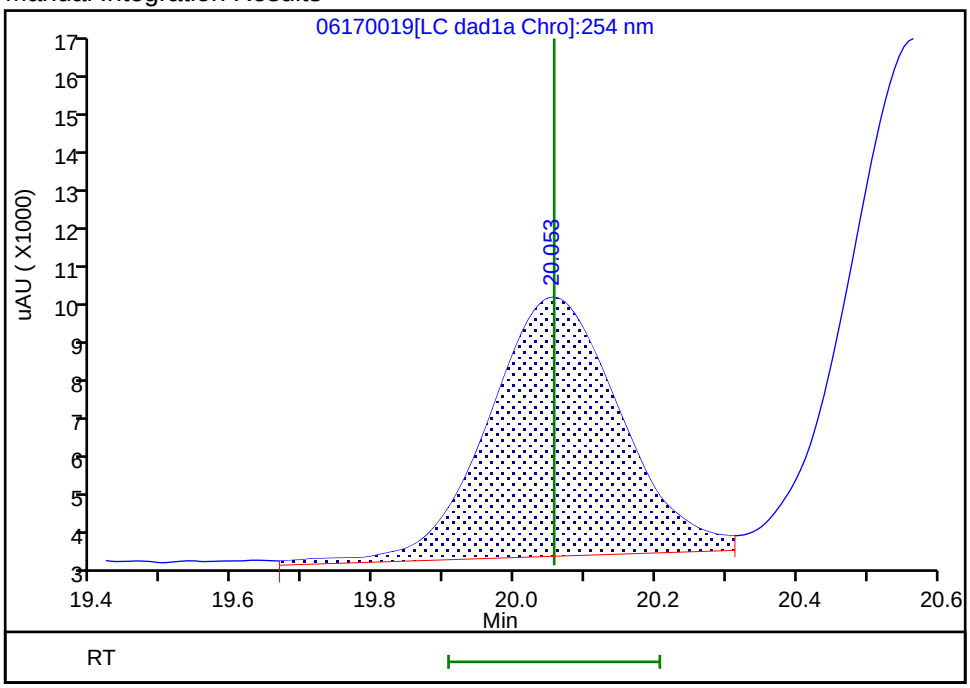
Processing Integration Results

RT: 20.05
Area: 71362
Amount: 0.231403
Amount Units: ug/ml



Manual Integration Results

RT: 20.05
Area: 79142
Amount: 0.258303
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

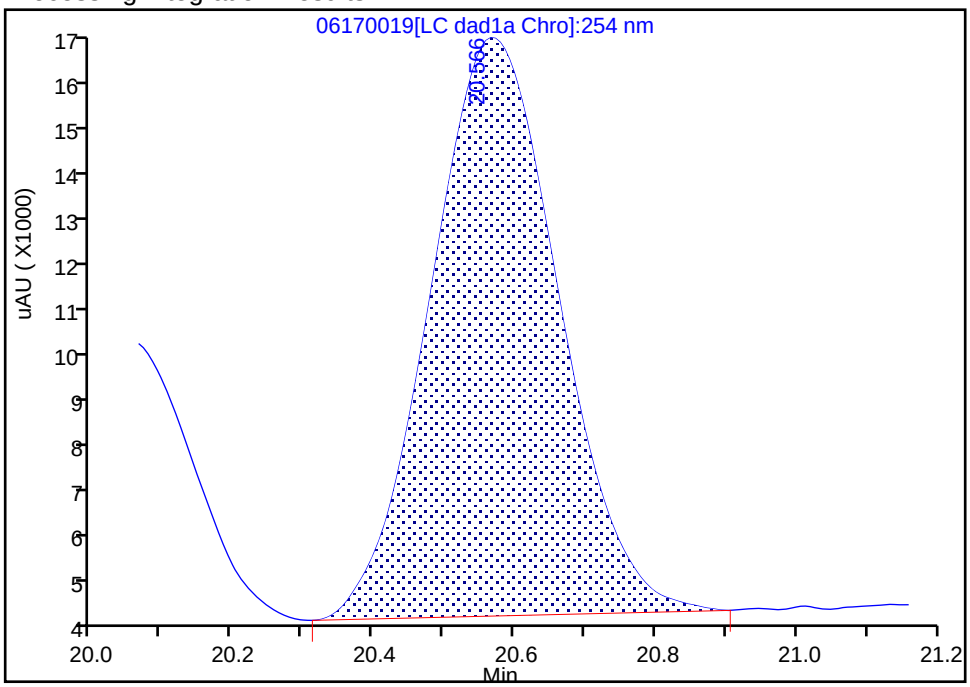
Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170019.d				
Injection Date:	18-Jun-2020 00:55:01	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

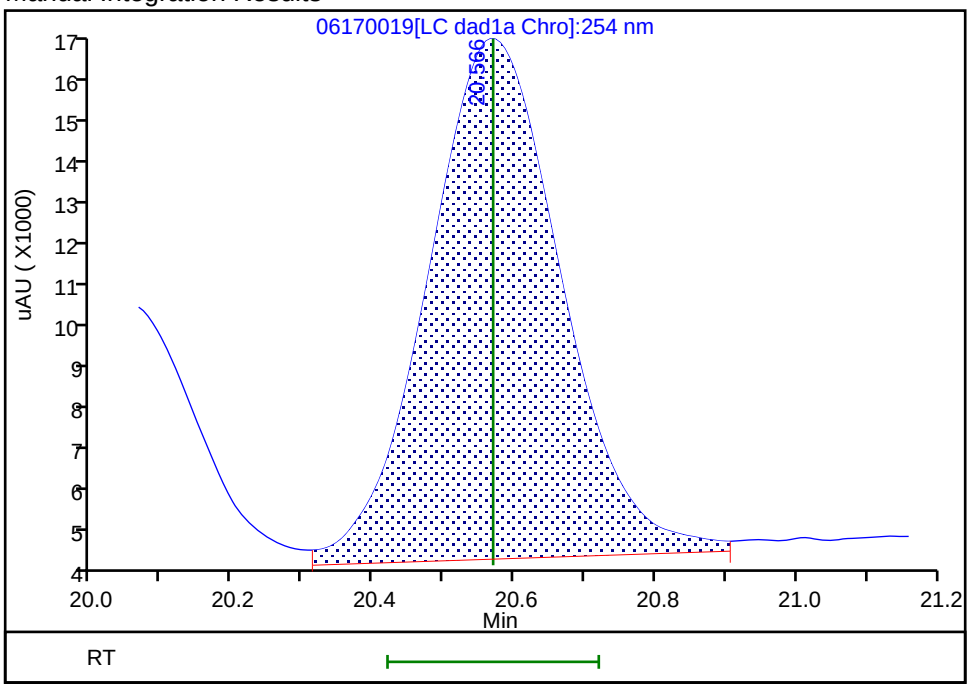
Processing Integration Results

RT: 20.57
Area: 146062
Amount: 0.228181
Amount Units: ug/ml



Manual Integration Results

RT: 20.57
Area: 156119
Amount: 0.243893
Amount Units: ug/ml



Reviewer: zhangji, 18-Jun-2020 14:09:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/20 Calibration Date: 06/18/2020 01:30

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06170020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	413558		237	250	-5.1	15.0
DNX	Ave	321206	313435		244	250	-2.4	15.0
MNX	Lin2		287061		294	292	0.6	15.0

FORM VII 8330A

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499146/20 Calibration Date: 06/18/2020 01:30

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06170020.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.52	5.36	5.66
DNX	6.36	6.19	6.49
MNX	7.92	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\06170020.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jun-2020 01:30:07	ALS Bottle#:	8	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092518-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200617-92518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 17:36:24	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 17:29:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.517	5.509	0.008	103493	0.2503	0.2375	
4 DNX	1	6.357	6.336	0.021	78437	0.2503	0.2442	
7 MNX	1	7.917	7.876	0.041	83750	0.2918	0.2935	

Reagents:

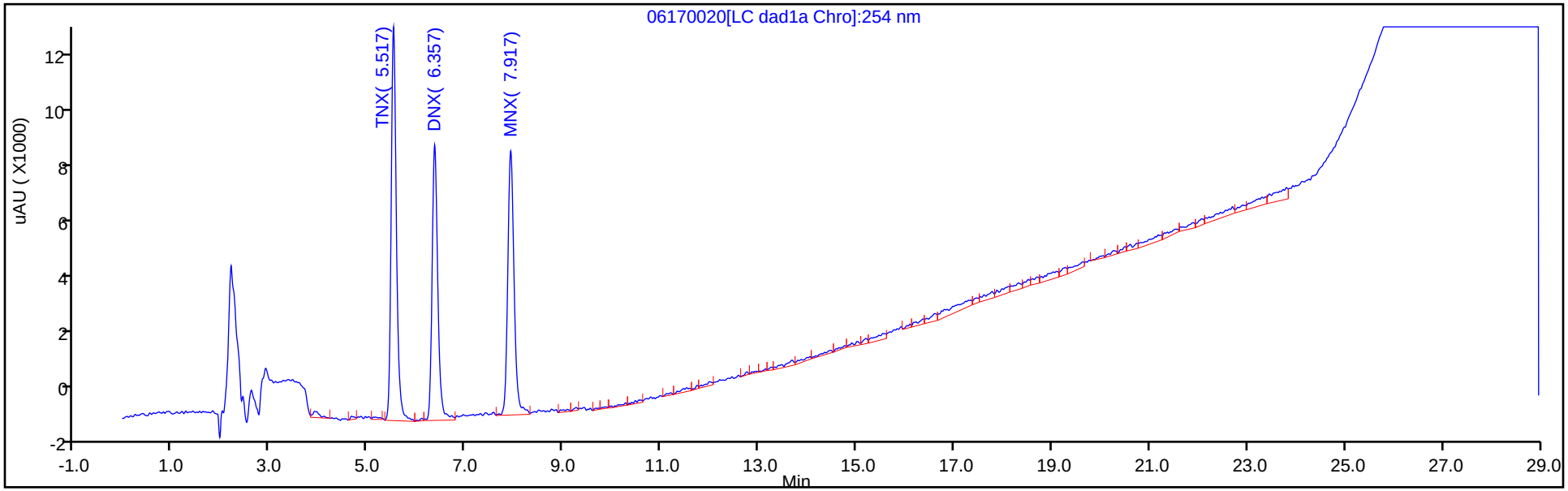
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 18-Jun-2020 17:36:24 Chrom Revision: 2.3 17-Jun-2020 19:07:08

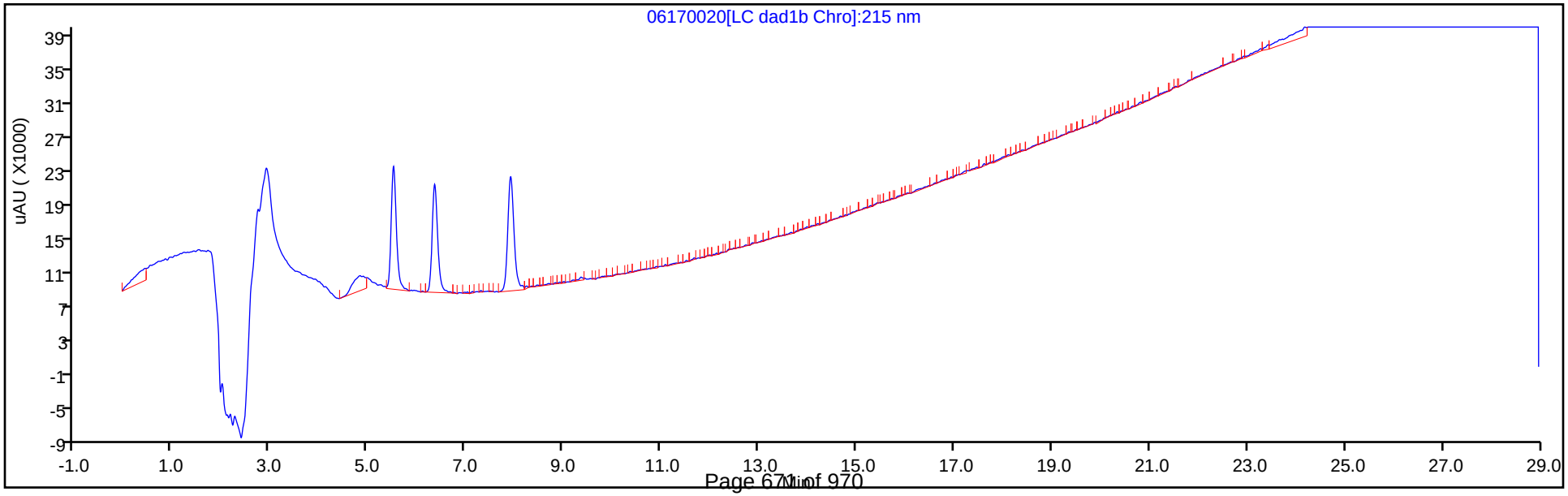
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200617-92518.b\06170020.d				
Injection Date:	18-Jun-2020 01:30:07	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/7 Calibration Date: 06/19/2020 07:50

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 007-7001.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		179168		223	250	-10.8	15.0
Picric acid	Ave	193810	177544		229	250	-8.4	15.0
RDX	Ave	244360	240036		246	250	-1.8	15.0
Nitrobenzene	Ave	439227	440912		252	251	0.4	15.0
1,3-Dinitrobenzene	Ave	674189	632970		235	251	-6.1	15.0
Nitroglycerin	Ave	126803	118178		2330	2500	-6.8	15.0
2-Nitrotoluene	Ave	272965	274708		252	250	0.6	15.0
4-Nitrotoluene	Ave	240881	244251		254	251	1.4	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	324715		235	250	-5.9	15.0
3-Nitrotoluene	Ave	298327	307908		258	250	3.2	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	454394		245	251	-2.3	15.0
1,3,5-Trinitrobenzene	Ave	472451	469321		249	251	-0.7	15.0
2,6-Dinitrotoluene	Lin2		302195		247	251	-1.6	15.0
2,4-Dinitrotoluene	Ave	640113	601586		236	251	-6.0	15.0
Tetryl	Ave	368678	344140		234	251	-6.7	15.0
2,4,6-Trinitrotoluene	Lin1		396661		240	251	-4.4	15.0
PETN	Lin1		139174		2480	2500	-0.8	15.0
1,2-Dinitrobenzene	Lin1		290624		255	250	2.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/7 Calibration Date: 06/19/2020 07:50

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 007-7001.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.16	7.01	7.31
Picric acid	8.53	8.38	8.68
RDX	9.37	9.22	9.52
Nitrobenzene	12.26	12.11	12.41
1,3-Dinitrobenzene	15.79	15.64	15.94
Nitroglycerin	16.02	15.87	16.17
2-Nitrotoluene	16.72	16.57	16.87
4-Nitrotoluene	17.01	16.86	17.16
4-Amino-2,6-dinitrotoluene	17.45	17.30	17.60
3-Nitrotoluene	17.93	17.78	18.08
2-Amino-4,6-dinitrotoluene	18.39	18.24	18.54
1,3,5-Trinitrobenzene	19.12	18.97	19.27
2,6-Dinitrotoluene	20.05	19.90	20.20
2,4-Dinitrotoluene	20.56	20.41	20.71
Tetryl	23.86	23.71	24.01
2,4,6-Trinitrotoluene	24.88	24.73	25.03
PETN	25.41	25.26	25.56
1,2-Dinitrobenzene	13.27	13.12	13.42

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\007-7001.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Jun-2020 07:50:21 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092563-007
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 19-Jun-2020 20:25:59 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1007

First Level Reviewer: zhangji Date: 19-Jun-2020 17:41:31

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	4.395	4.395	0.000	102214	0.2500	0.2381	M
2 2,4-diamino-6-nitrotoluene	1	4.941	4.941	0.000	62065	0.2500	0.2378	Ma
6 HMX	1	7.155	7.155	0.000	44792	0.2500	0.2230	
5 2,4,6-Trinitrophenol	1	8.528	8.528	0.000	44386	0.2500	0.2290	
8 RDX	1	9.368	9.368	0.000	60009	0.2500	0.2456	
9 Nitrobenzene	1	12.261	12.261	0.000	110669	0.2510	0.2520	
$ 10 1,2-Dinitrobenzene	1	13.268	13.268	0.000	72656	0.2500	0.2554	
11 3,5-Dinitroaniline	1	15.208	15.208	0.000	113560	0.2500	0.2284	
12 1,3-Dinitrobenzene	1	15.794	15.794	0.000	158559	0.2505	0.2352	
13 Nitroglycerin	2	16.021	16.021	0.000	295444	2.50	2.33	
14 o-Nitrotoluene	1	16.721	16.721	0.000	68677	0.2500	0.2516	M
15 p-Nitrotoluene	1	17.008	17.008	0.000	61185	0.2505	0.2540	M
16 4-Amino-2,6-dinitrotoluene	1	17.454	17.454	0.000	81260	0.2503	0.2354	M
17 m-Nitrotoluene	1	17.934	17.934	0.000	77054	0.2503	0.2583	M
18 2-Amino-4,6-dinitrotoluene	1	18.394	18.394	0.000	114053	0.2510	0.2452	M
19 1,3,5-Trinitrobenzene	1	19.121	19.121	0.000	117565	0.2505	0.2488	M
20 2,6-Dinitrotoluene	1	20.048	20.048	0.000	75851	0.2510	0.2469	M
21 2,4-Dinitrotoluene	1	20.555	20.555	0.000	150998	0.2510	0.2359	M
22 Tetryl	1	23.861	23.861	0.000	86207	0.2505	0.2338	
23 2,4,6-Trinitrotoluene	1	24.875	24.875	0.000	99562	0.2510	0.2400	
24 PETN	2	25.408	25.408	0.000	347936	2.50	2.48	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

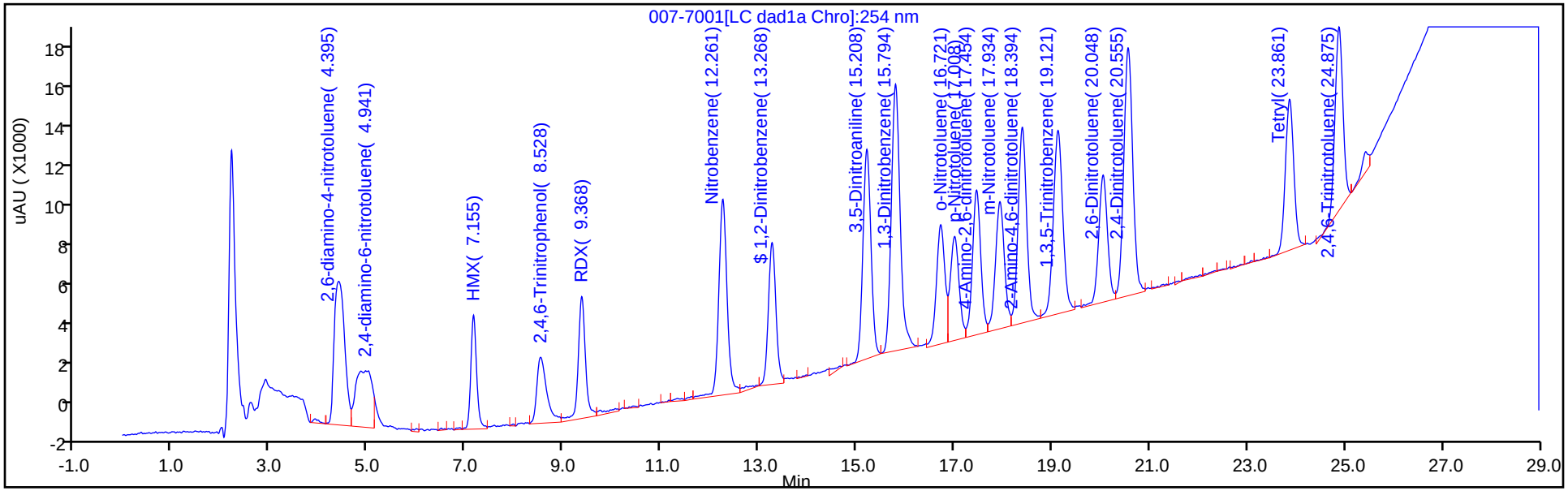
8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

Report Date: 19-Jun-2020 20:25:59 Chrom Revision: 2.3 17-Jun-2020 19:07:08

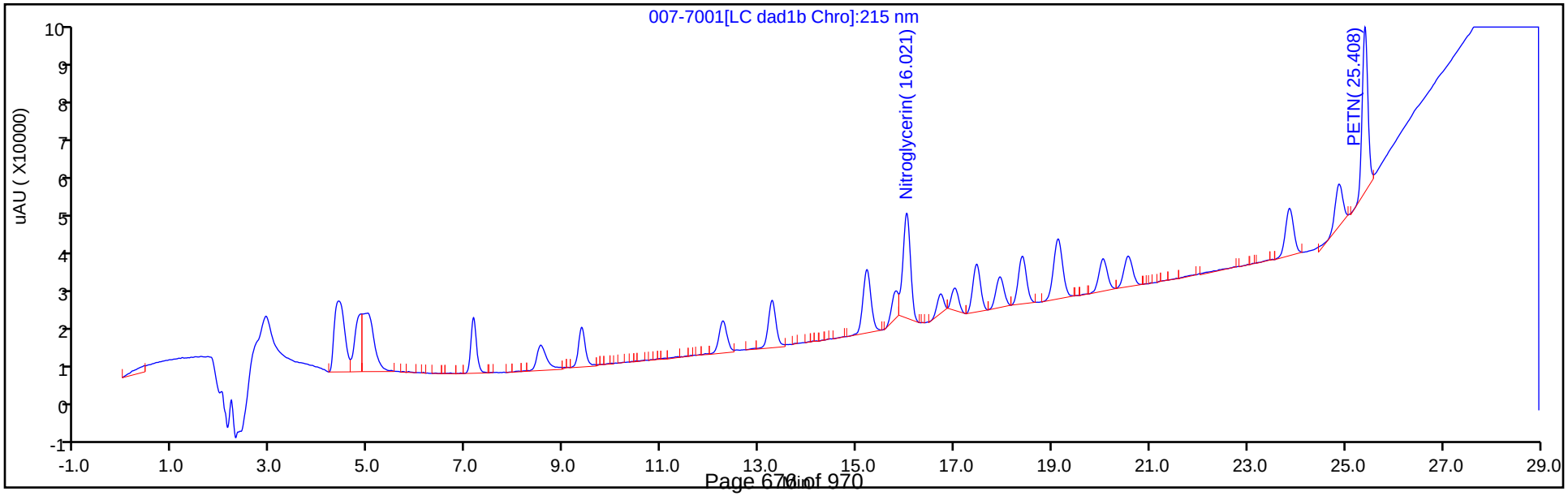
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

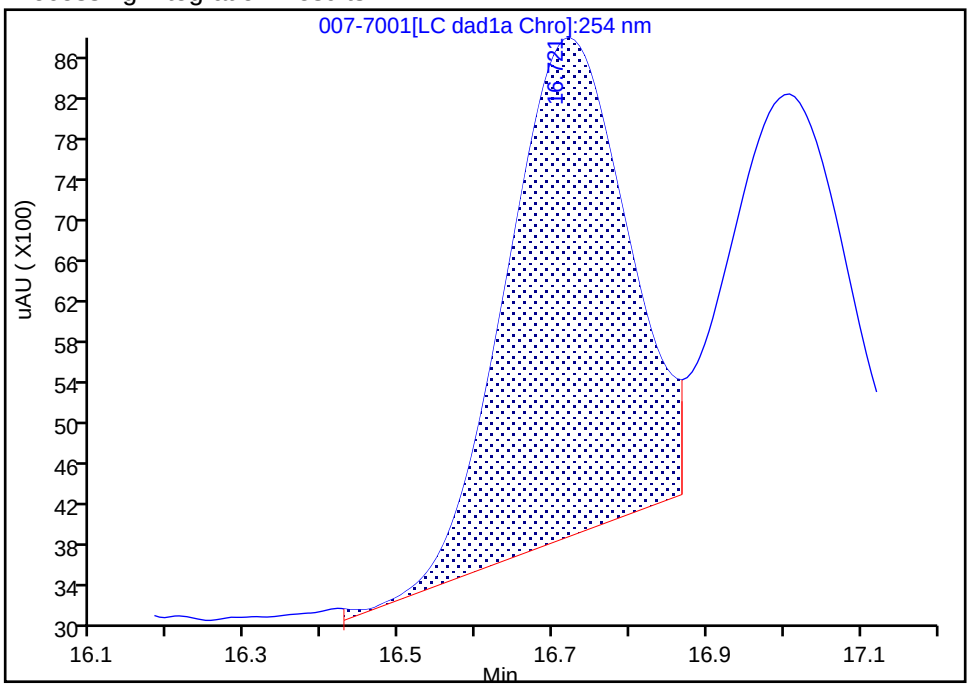
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

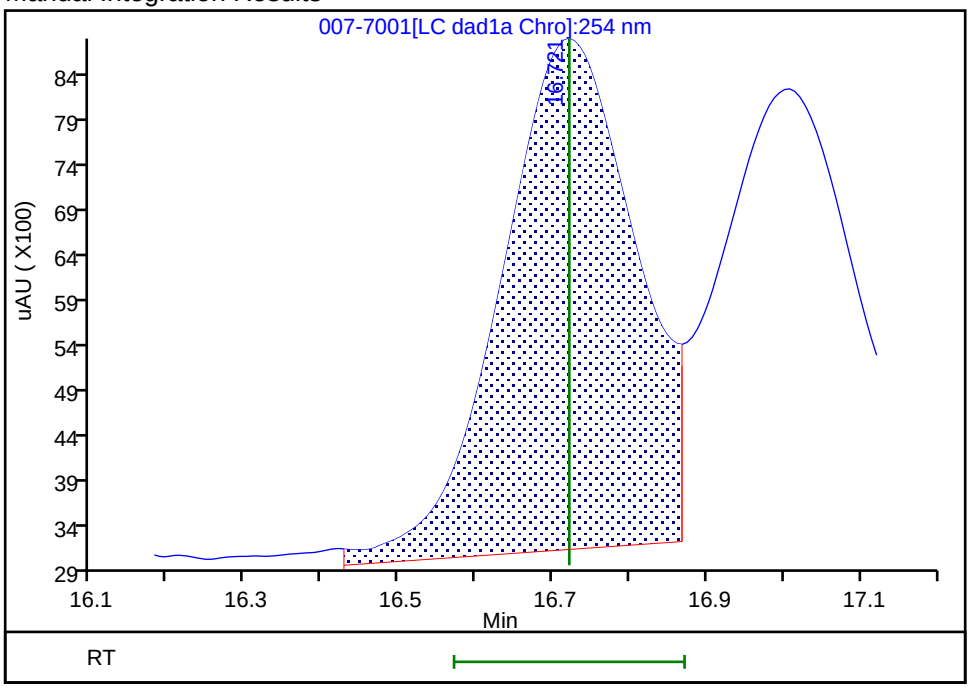
Processing Integration Results

RT: 16.72
Area: 53972
Amount: 0.197725
Amount Units: ug/ml



Manual Integration Results

RT: 16.72
Area: 68677
Amount: 0.251597
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

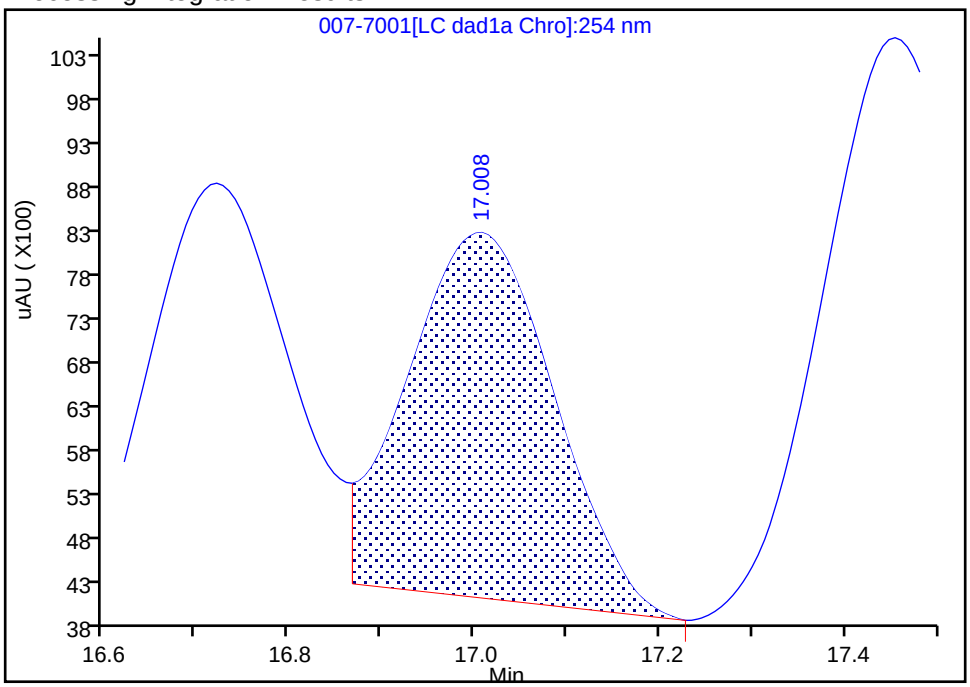
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

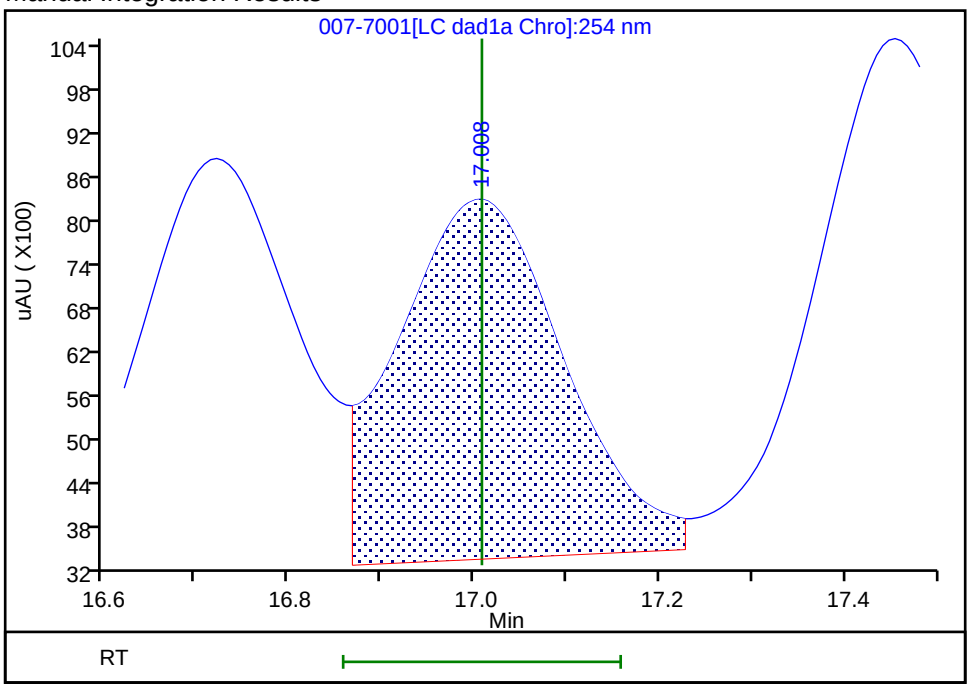
Processing Integration Results

RT: 17.01
Area: 45309
Amount: 0.188097
Amount Units: ug/ml



Manual Integration Results

RT: 17.01
Area: 61185
Amount: 0.254005
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

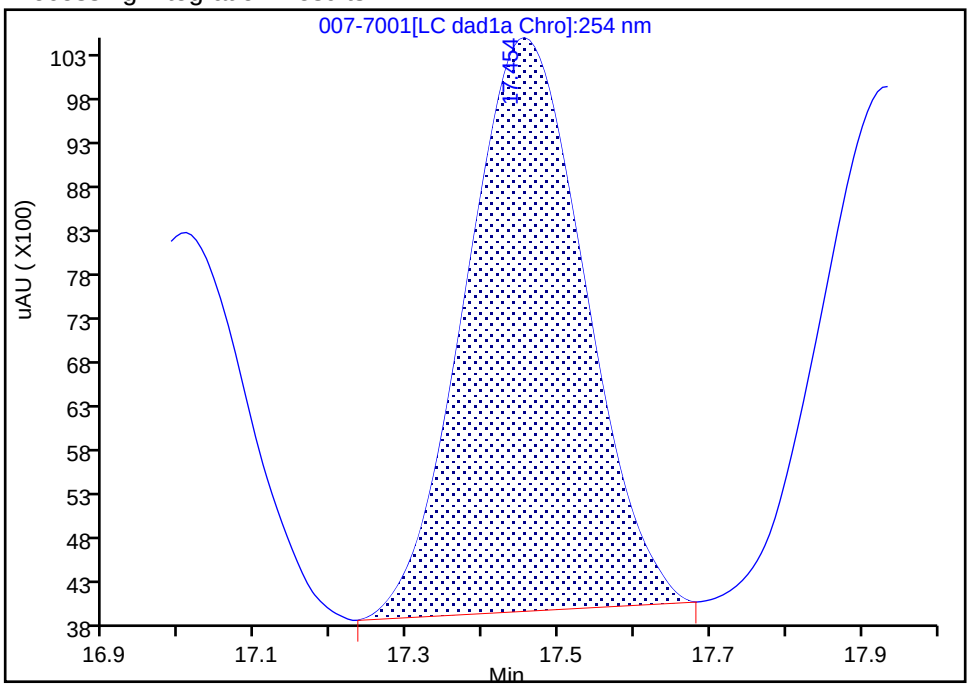
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

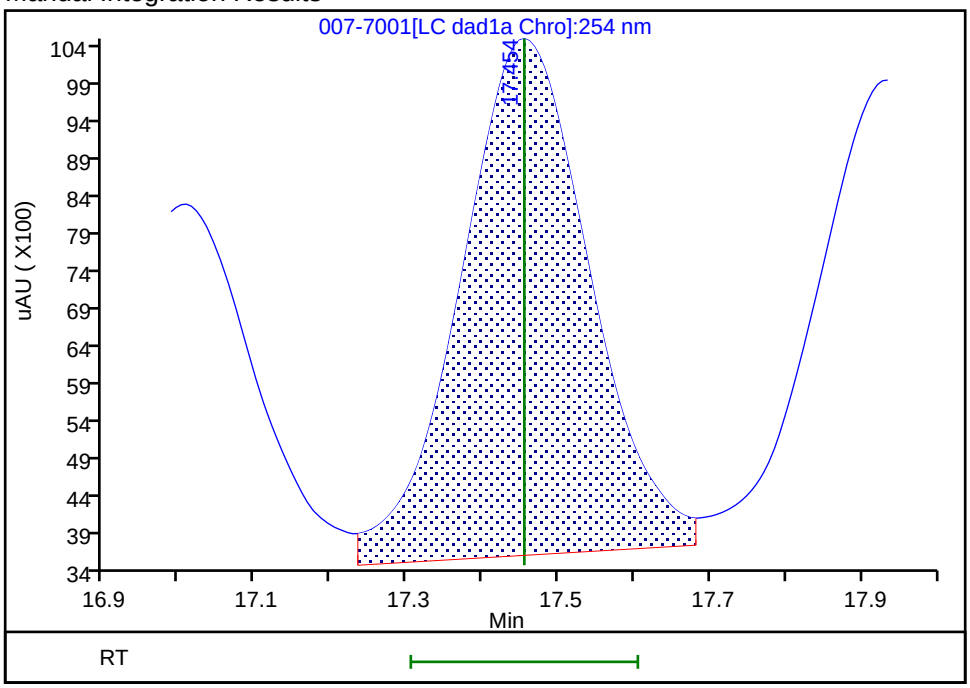
Processing Integration Results

RT: 17.45
Area: 70862
Amount: 0.205258
Amount Units: ug/ml



Manual Integration Results

RT: 17.45
Area: 81260
Amount: 0.235376
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

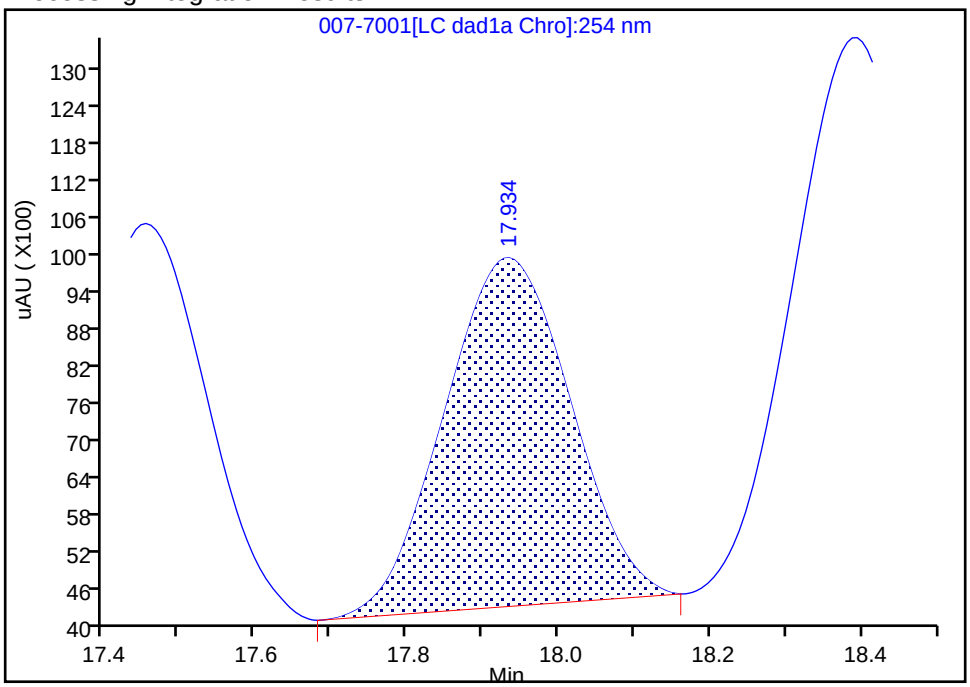
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

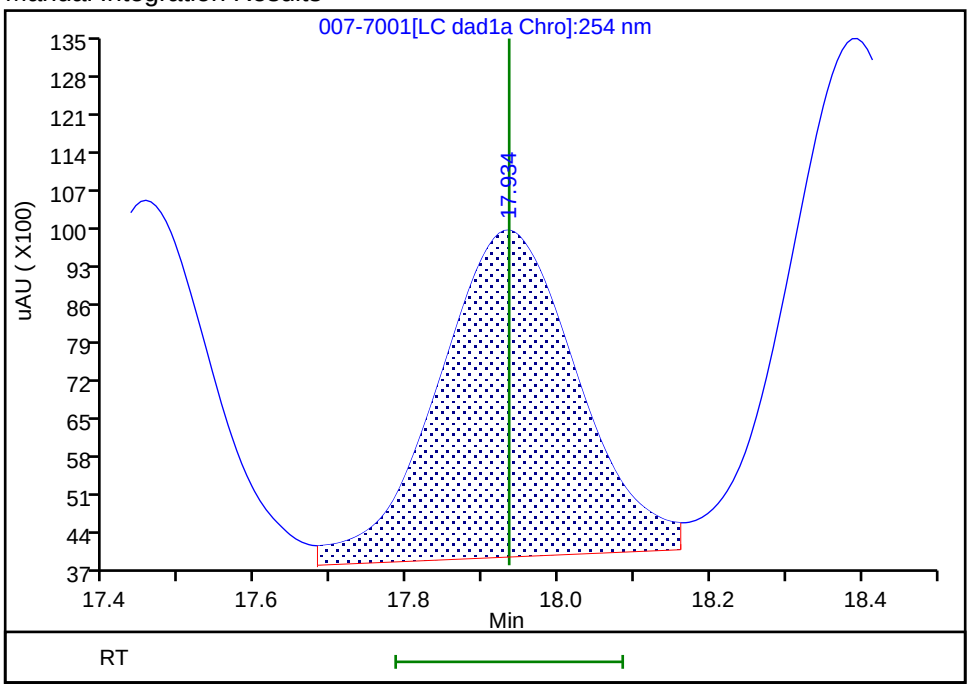
Processing Integration Results

RT: 17.93
Area: 64771
Amount: 0.217114
Amount Units: ug/ml



Manual Integration Results

RT: 17.93
Area: 77054
Amount: 0.258287
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

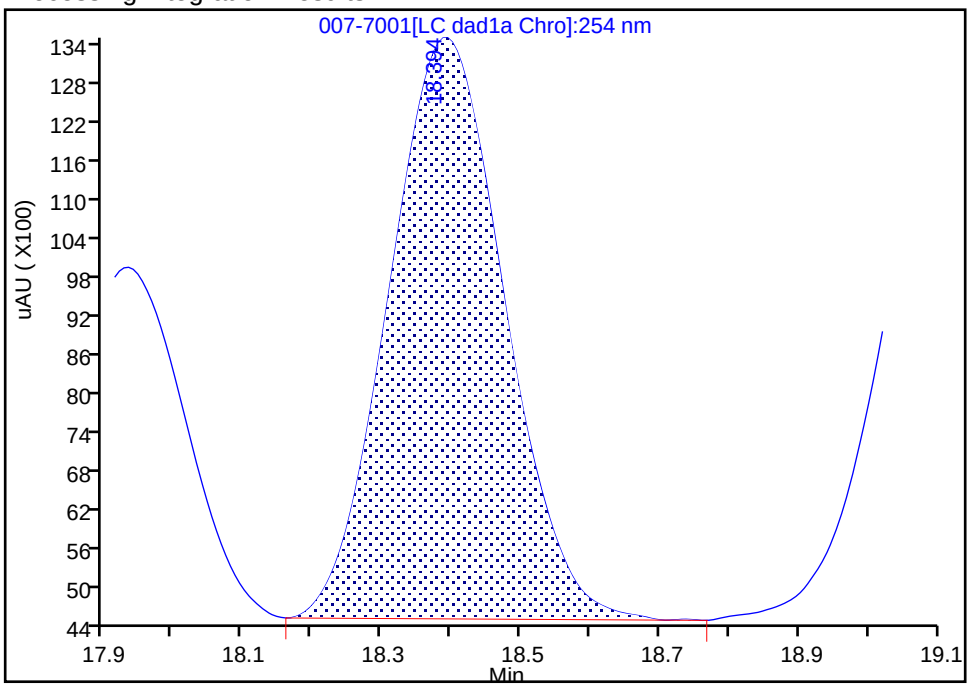
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

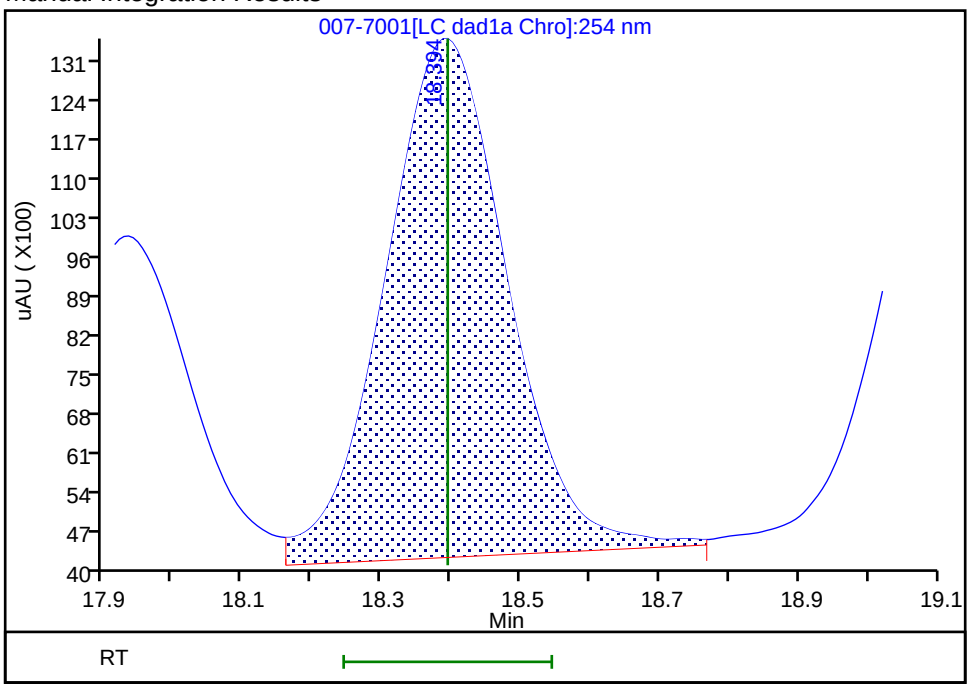
Processing Integration Results

RT: 18.39
Area: 103297
Amount: 0.222043
Amount Units: ug/ml



Manual Integration Results

RT: 18.39
Area: 114053
Amount: 0.245164
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

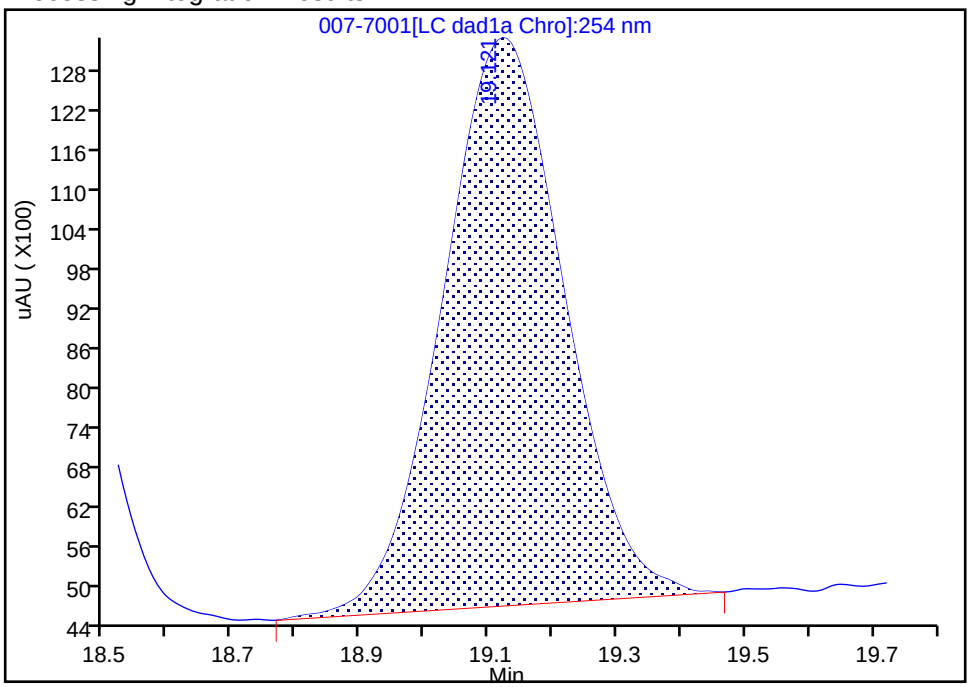
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

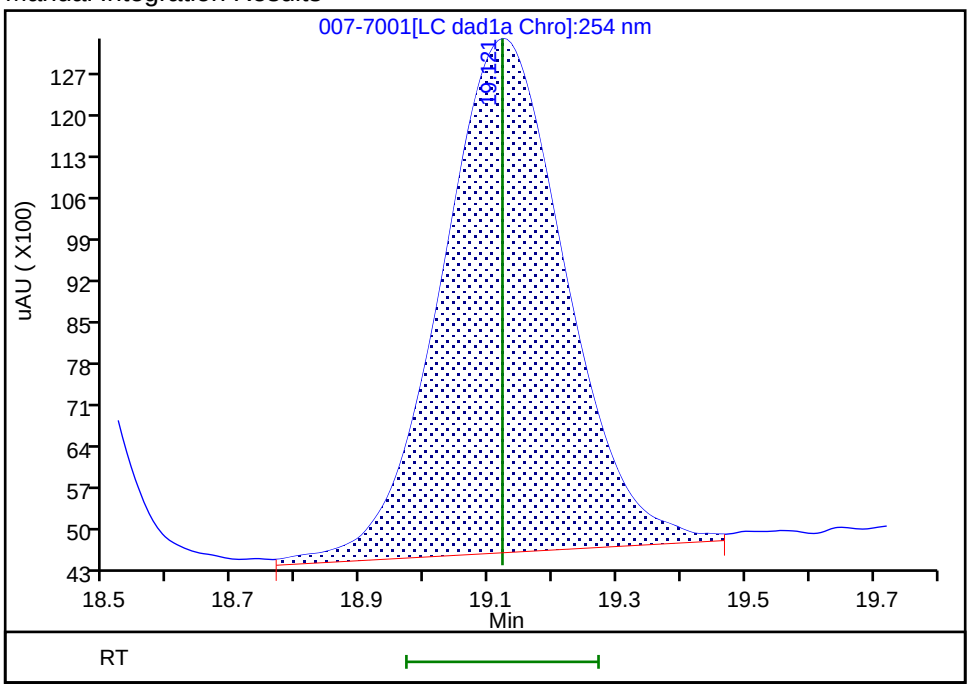
Processing Integration Results

RT: 19.12
Area: 113323
Amount: 0.239862
Amount Units: ug/ml



Manual Integration Results

RT: 19.12
Area: 117565
Amount: 0.248841
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

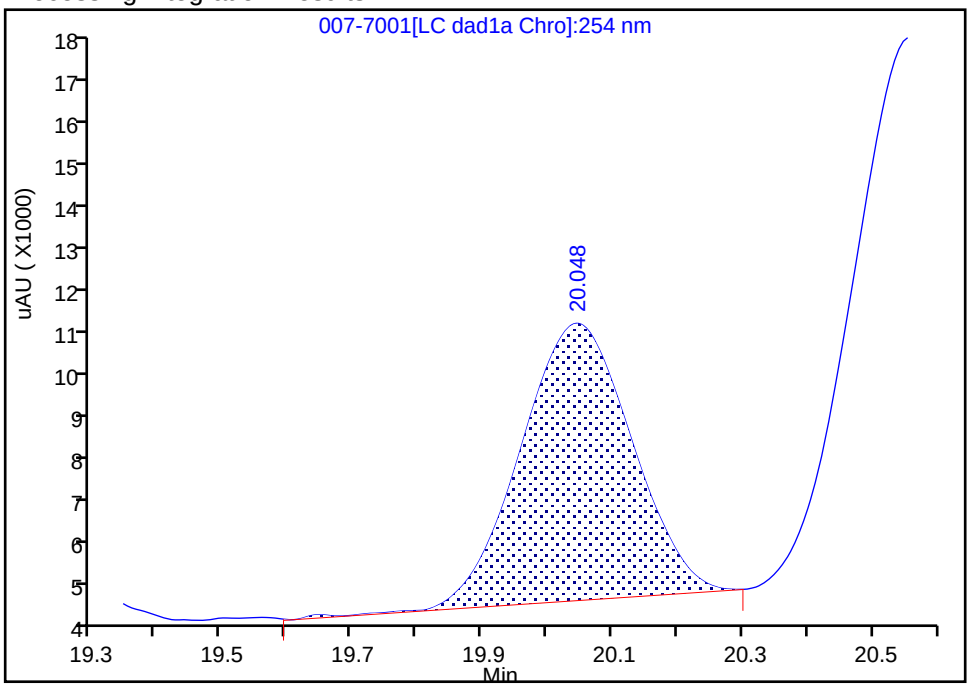
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

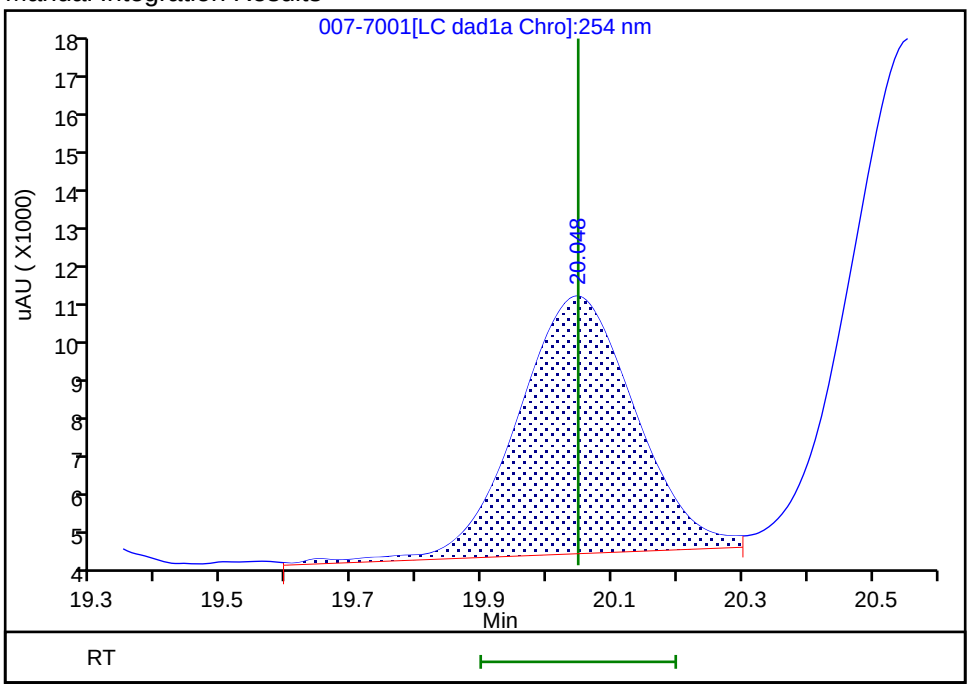
Processing Integration Results

RT: 20.05
Area: 69661
Amount: 0.225522
Amount Units: ug/ml



Manual Integration Results

RT: 20.05
Area: 75851
Amount: 0.246924
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

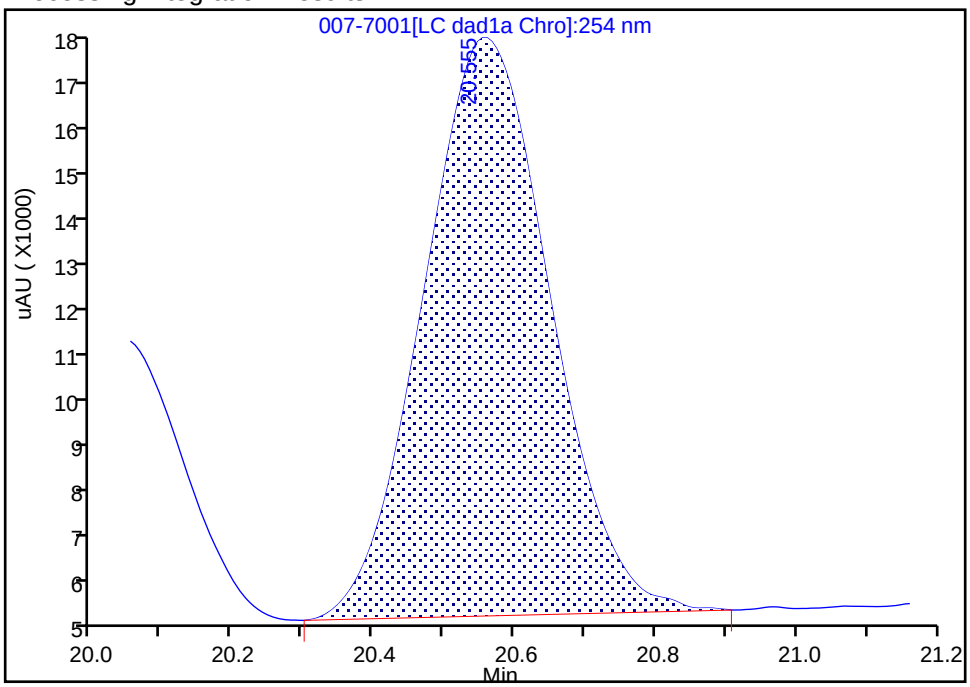
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-7001.d				
Injection Date:	19-Jun-2020 07:50:21	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

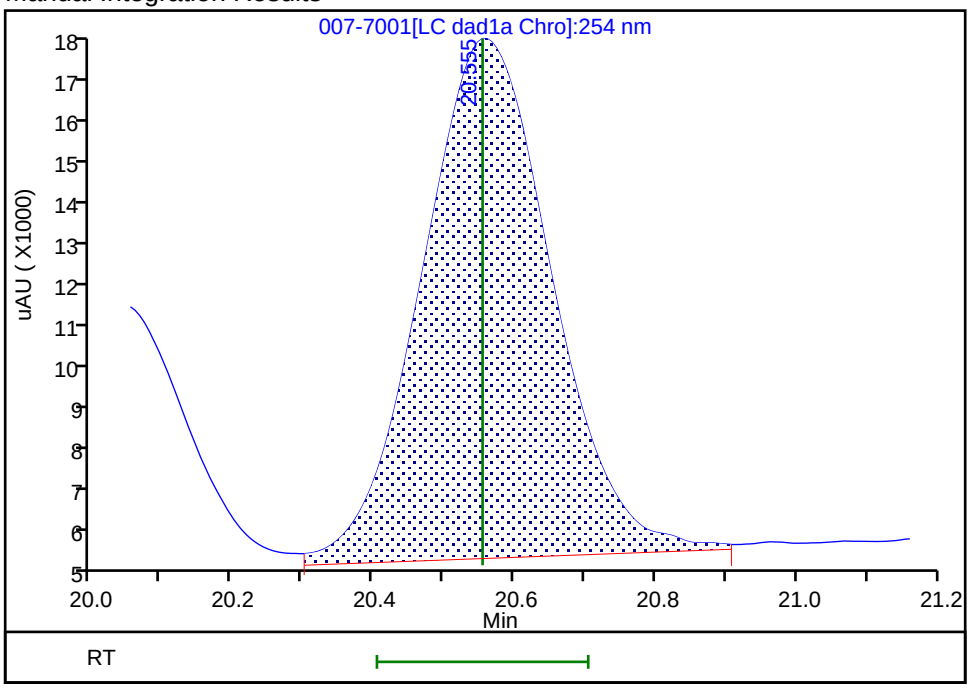
Processing Integration Results

RT: 20.55
Area: 144318
Amount: 0.225457
Amount Units: ug/ml



Manual Integration Results

RT: 20.55
Area: 150998
Amount: 0.235893
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 17:41:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/8 Calibration Date: 06/19/2020 08:25

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 008-7101.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	414873		238	250	-4.8	15.0
DNX	Ave	321206	302190		235	250	-5.9	15.0
MNX	Lin2		287859		294	292	0.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/8 Calibration Date: 06/19/2020 08:25

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 008-7101.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.51	5.36	5.66
DNX	6.35	6.19	6.49
MNX	7.91	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\008-7101.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	19-Jun-2020 08:25:27	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092563-008				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	19-Jun-2020 20:26:00	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1007				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.514	5.509	0.005	103822	0.2503	0.2382	
4 DNX	1	6.354	6.336	0.018	75623	0.2503	0.2354	
7 MNX	1	7.914	7.876	0.038	83983	0.2918	0.2944	

Reagents:

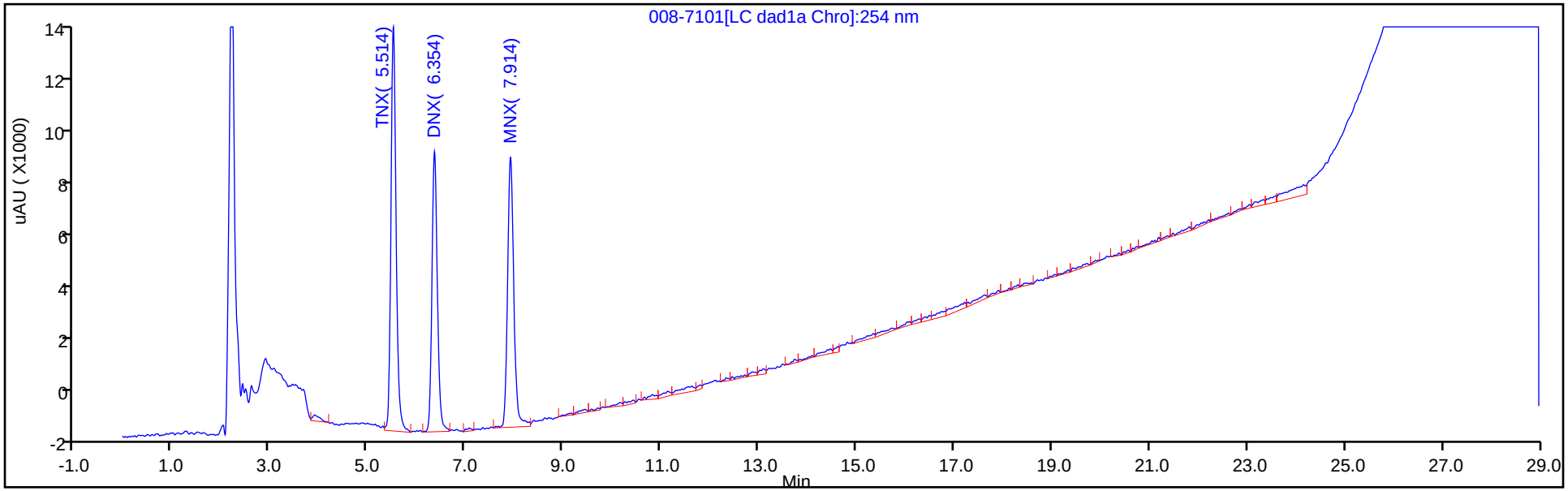
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 19-Jun-2020 20:26:00 Chrom Revision: 2.3 17-Jun-2020 19:07:08

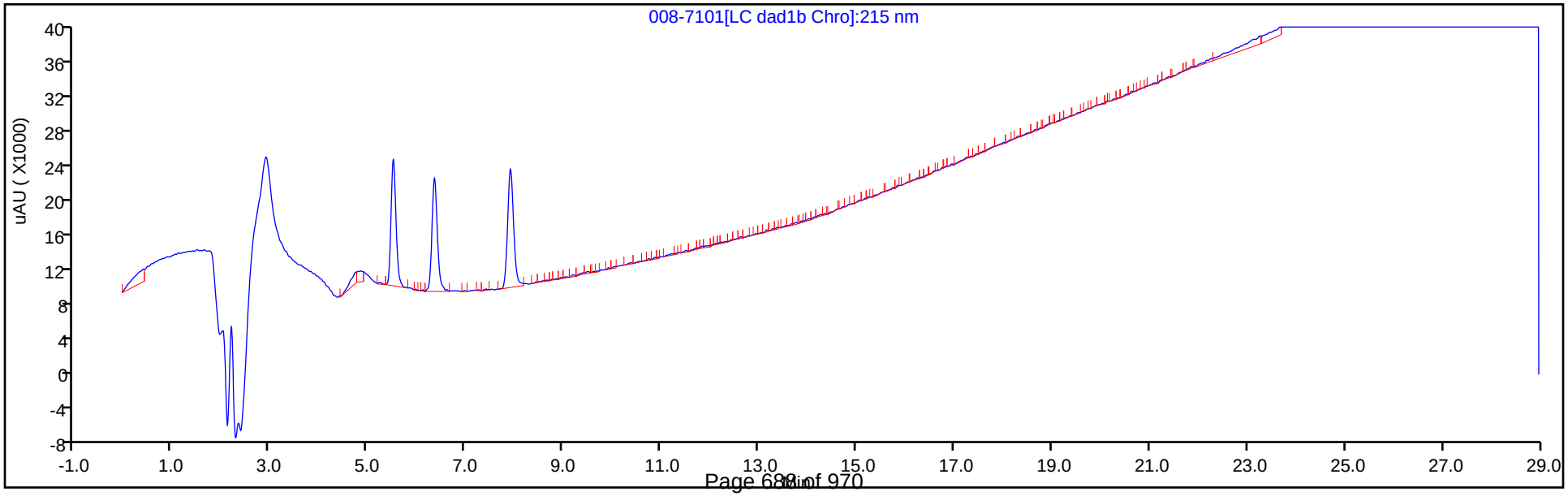
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\008-7101.d				
Injection Date:	19-Jun-2020 08:25:27	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/19 Calibration Date: 06/19/2020 14:50

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 007-8201.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		179768		224	250	-10.5	15.0
Picric acid	Ave	193810	175792		227	250	-9.3	15.0
RDX	Ave	244360	220812		226	250	-9.6	15.0
Nitrobenzene	Ave	439227	423446		242	251	-3.6	15.0
1,3-Dinitrobenzene	Ave	674189	642144		239	251	-4.8	15.0
Nitroglycerin	Ave	126803	103861		2050	2500	-18.1*	15.0
2-Nitrotoluene	Ave	272965	248188		227	250	-9.1	15.0
4-Nitrotoluene	Ave	240881	230387		240	251	-4.4	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	311940		226	250	-9.6	15.0
3-Nitrotoluene	Ave	298327	286969		241	250	-3.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	432888		234	251	-6.9	15.0
1,3,5-Trinitrobenzene	Ave	472451	450834		239	251	-4.6	15.0
2,6-Dinitrotoluene	Lin2		287442		234	251	-6.7	15.0
2,4-Dinitrotoluene	Ave	640113	595458		233	251	-7.0	15.0
Tetryl	Ave	368678	338559		230	251	-8.2	15.0
2,4,6-Trinitrotoluene	Lin1		395422		239	251	-4.7	15.0
PETN	Lin1		140637		2510	2500	0.3	15.0
1,2-Dinitrobenzene	Lin1		282492		248	250	-0.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/19 Calibration Date: 06/19/2020 14:50

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 007-8201.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.13	7.01	7.31
Picric acid	8.47	8.38	8.68
RDX	9.34	9.22	9.52
Nitrobenzene	12.24	12.11	12.41
1,3-Dinitrobenzene	15.78	15.64	15.94
Nitroglycerin	16.01	15.87	16.17
2-Nitrotoluene	16.71	16.57	16.87
4-Nitrotoluene	16.99	16.86	17.16
4-Amino-2,6-dinitrotoluene	17.43	17.30	17.60
3-Nitrotoluene	17.91	17.78	18.08
2-Amino-4,6-dinitrotoluene	18.37	18.24	18.54
1,3,5-Trinitrobenzene	19.11	18.97	19.27
2,6-Dinitrotoluene	20.03	19.90	20.20
2,4-Dinitrotoluene	20.55	20.41	20.71
Tetryl	23.85	23.71	24.01
2,4,6-Trinitrotoluene	24.87	24.73	25.03
PETN	25.41	25.26	25.56
1,2-Dinitrobenzene	13.25	13.12	13.42

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\007-8201.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Jun-2020 14:50:12 ALS Bottle#: 7 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092563-019
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 19-Jun-2020 20:25:58 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1007

First Level Reviewer: zhangji Date: 19-Jun-2020 16:40:55

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	4.371	4.395	-0.024	103147	0.2500	0.2403	
2 2,4-diamino-6-nitrotoluene	1	4.971	4.941	0.030	69228	0.2500	0.2679	
6 HMX	1	7.131	7.155	-0.024	44942	0.2500	0.2238	
5 2,4,6-Trinitrophenol	1	8.471	8.528	-0.057	43948	0.2500	0.2268	
8 RDX	1	9.338	9.368	-0.030	55203	0.2500	0.2259	
9 Nitrobenzene	1	12.238	12.261	-0.023	106285	0.2510	0.2420	
$ 10 1,2-Dinitrobenzene	1	13.245	13.268	-0.023	70623	0.2500	0.2481	
11 3,5-Dinitroaniline	1	15.185	15.208	-0.023	115351	0.2500	0.2321	
12 1,3-Dinitrobenzene	1	15.778	15.794	-0.016	160857	0.2505	0.2386	
13 Nitroglycerin	2	16.005	16.021	-0.016	259652	2.50	2.05	
14 o-Nitrotoluene	1	16.705	16.721	-0.016	62047	0.2500	0.2273	M
15 p-Nitrotoluene	1	16.985	17.008	-0.023	57712	0.2505	0.2396	M
16 4-Amino-2,6-dinitrotoluene	1	17.431	17.454	-0.023	78063	0.2503	0.2261	M
17 m-Nitrotoluene	1	17.911	17.934	-0.023	71814	0.2503	0.2407	M
18 2-Amino-4,6-dinitrotoluene	1	18.371	18.394	-0.023	108655	0.2510	0.2336	M
19 1,3,5-Trinitrobenzene	1	19.105	19.121	-0.016	112934	0.2505	0.2390	M
20 2,6-Dinitrotoluene	1	20.031	20.048	-0.017	72148	0.2510	0.2341	M
21 2,4-Dinitrotoluene	1	20.545	20.555	-0.009	149460	0.2510	0.2335	M
22 Tetryl	1	23.851	23.861	-0.010	84809	0.2505	0.2300	
23 2,4,6-Trinitrotoluene	1	24.865	24.875	-0.010	99251	0.2510	0.2393	
24 PETN	2	25.405	25.408	-0.003	351593	2.50	2.51	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

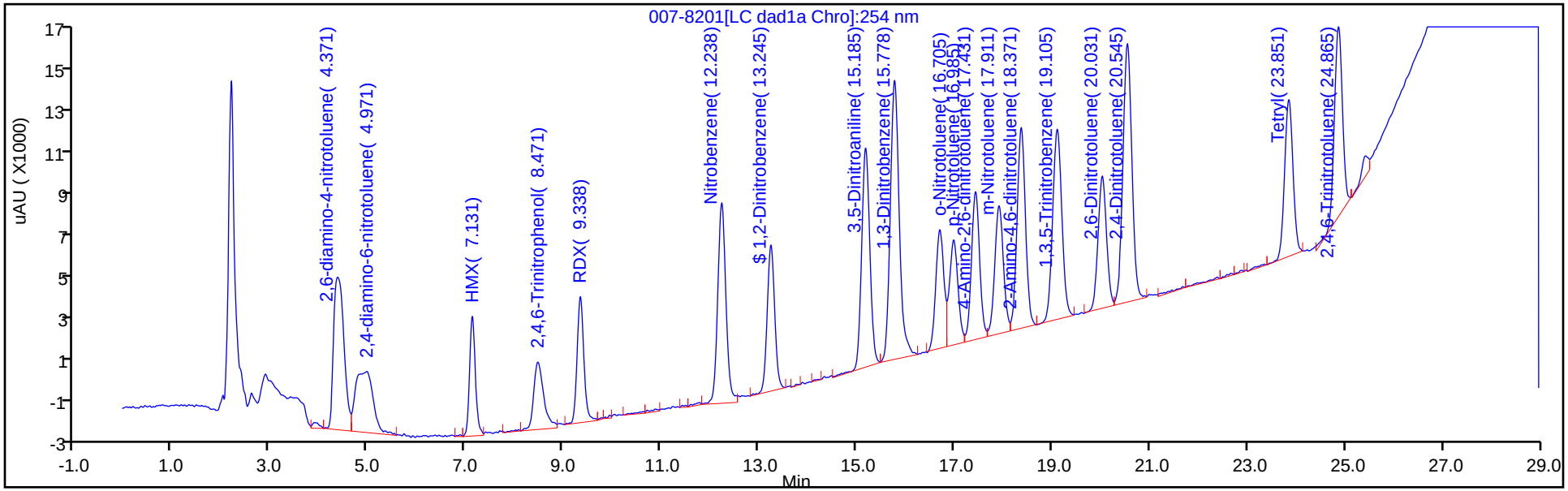
8330IntermStk_00064	Amount Added: 25.00	Units: uL
8330_ADDs_00027	Amount Added: 12.50	Units: uL

Report Date: 19-Jun-2020 20:25:58 Chrom Revision: 2.3 17-Jun-2020 19:07:08

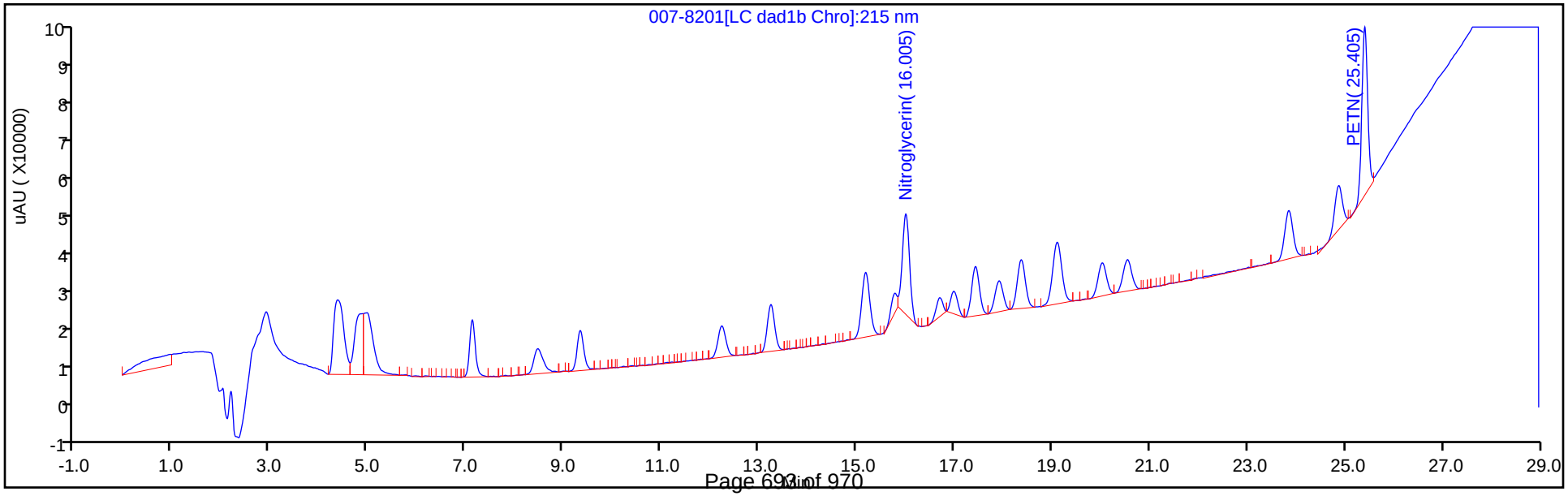
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

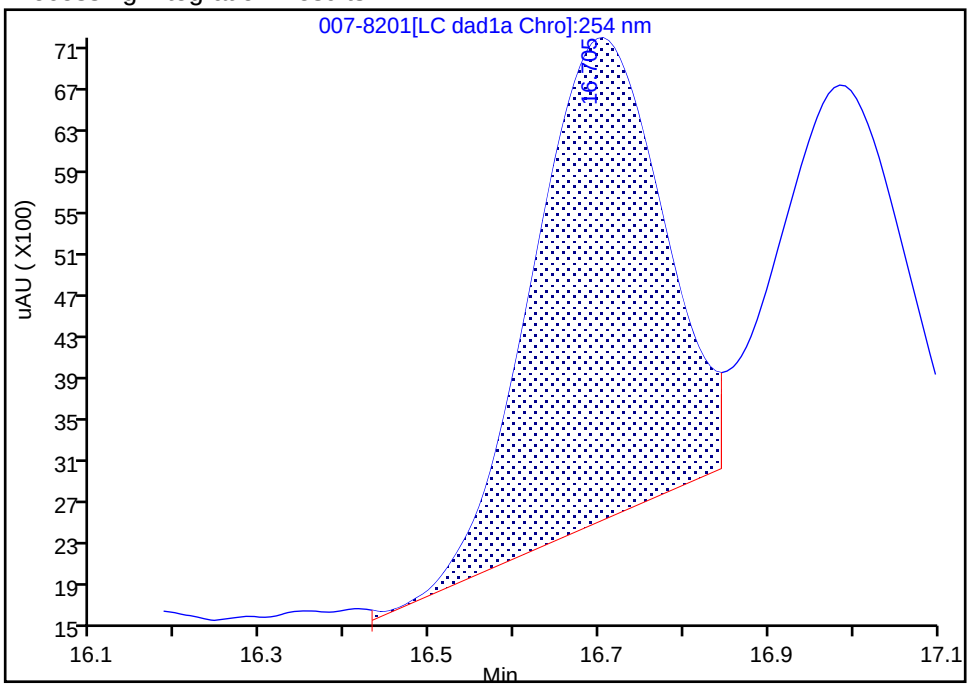
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

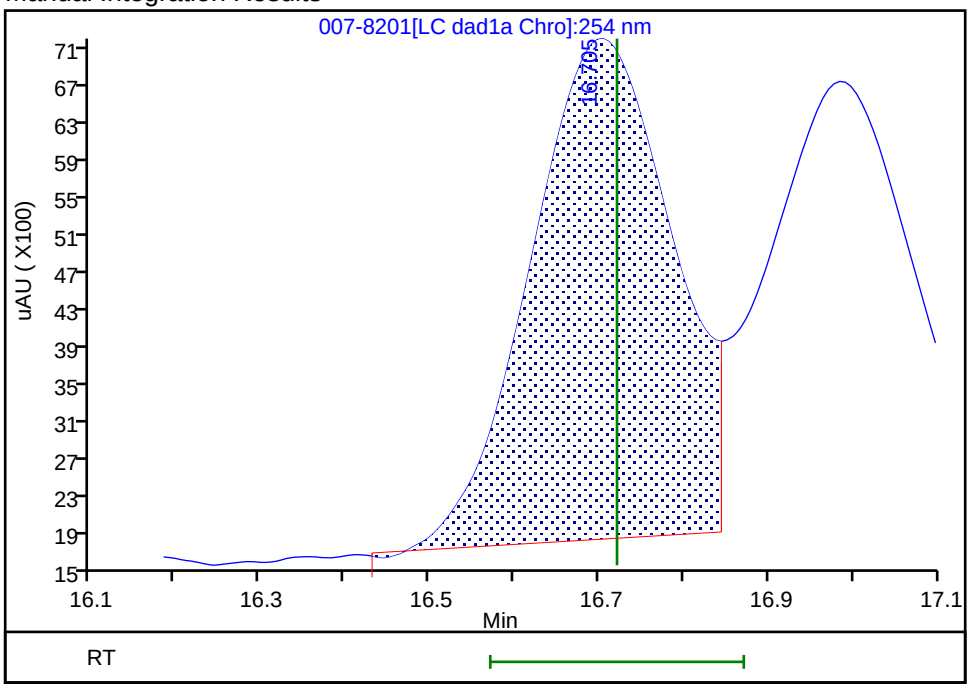
Processing Integration Results

RT: 16.70
Area: 49920
Amount: 0.182881
Amount Units: ug/ml



Manual Integration Results

RT: 16.70
Area: 62047
Amount: 0.227308
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

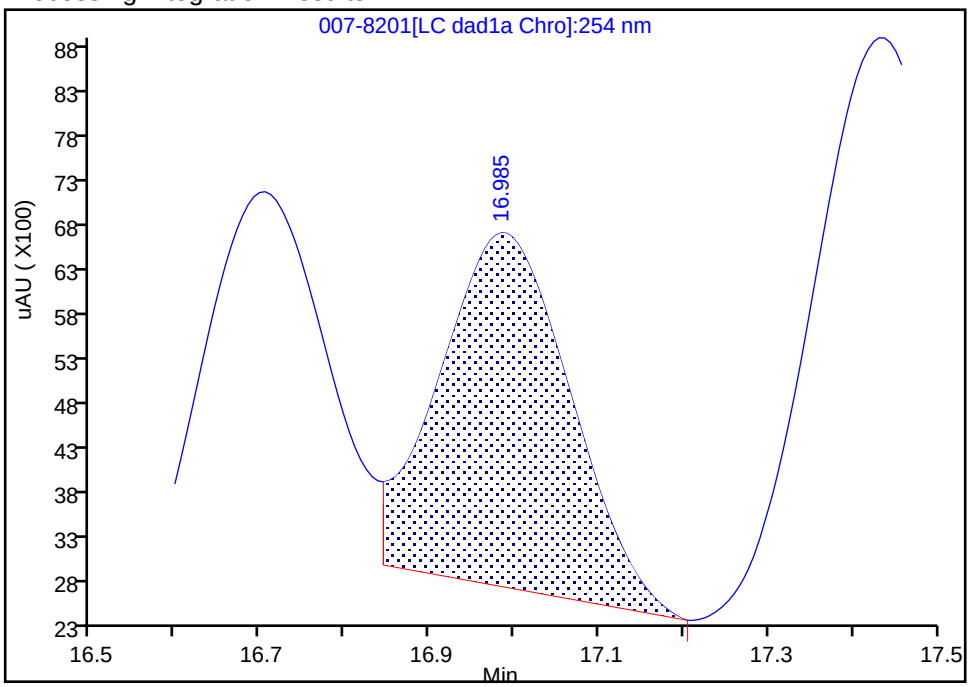
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

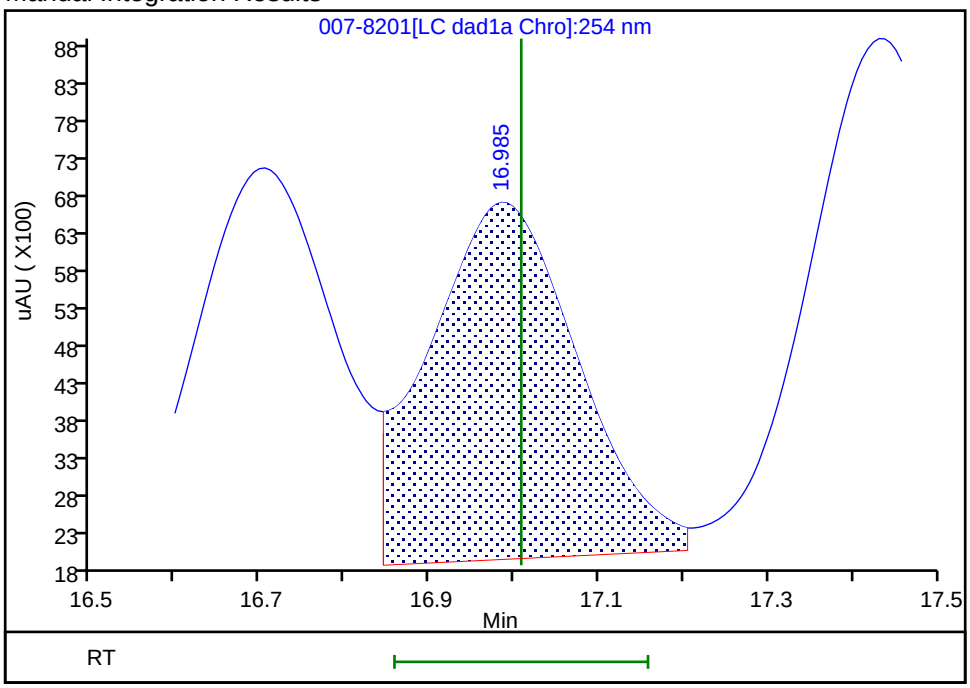
Processing Integration Results

RT: 16.98
Area: 42528
Amount: 0.176552
Amount Units: ug/ml



Manual Integration Results

RT: 16.98
Area: 57712
Amount: 0.239587
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

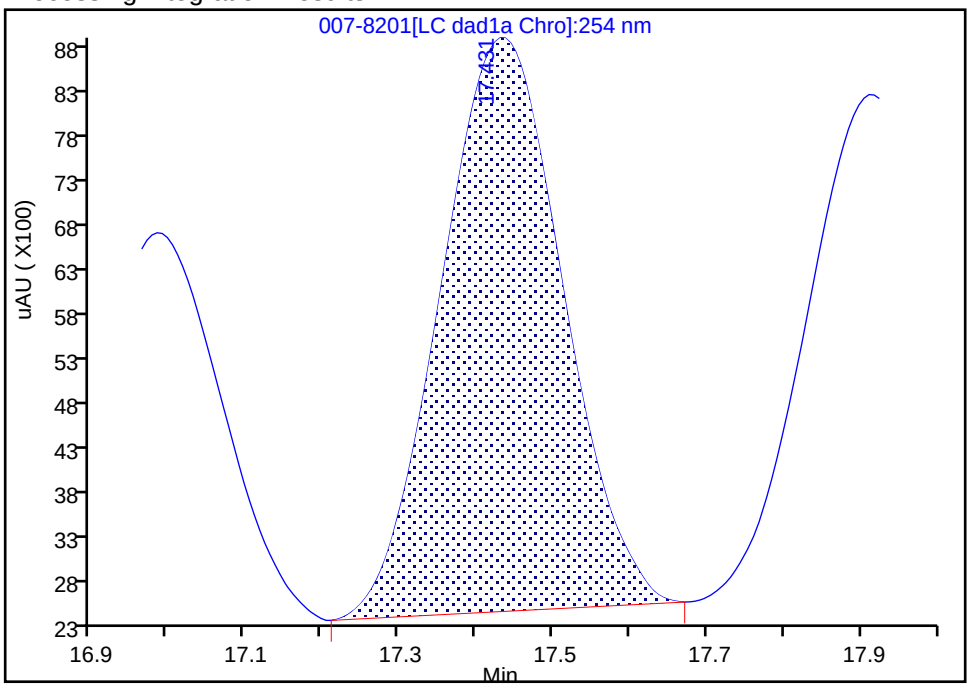
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

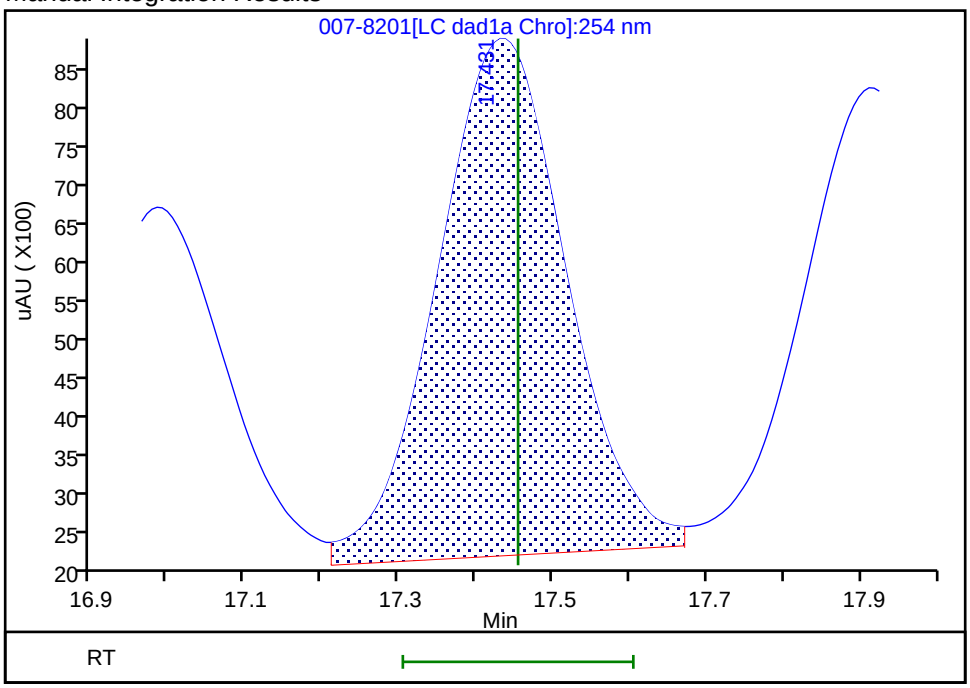
Processing Integration Results

RT: 17.43
Area: 70584
Amount: 0.204452
Amount Units: ug/ml



Manual Integration Results

RT: 17.43
Area: 78063
Amount: 0.226116
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

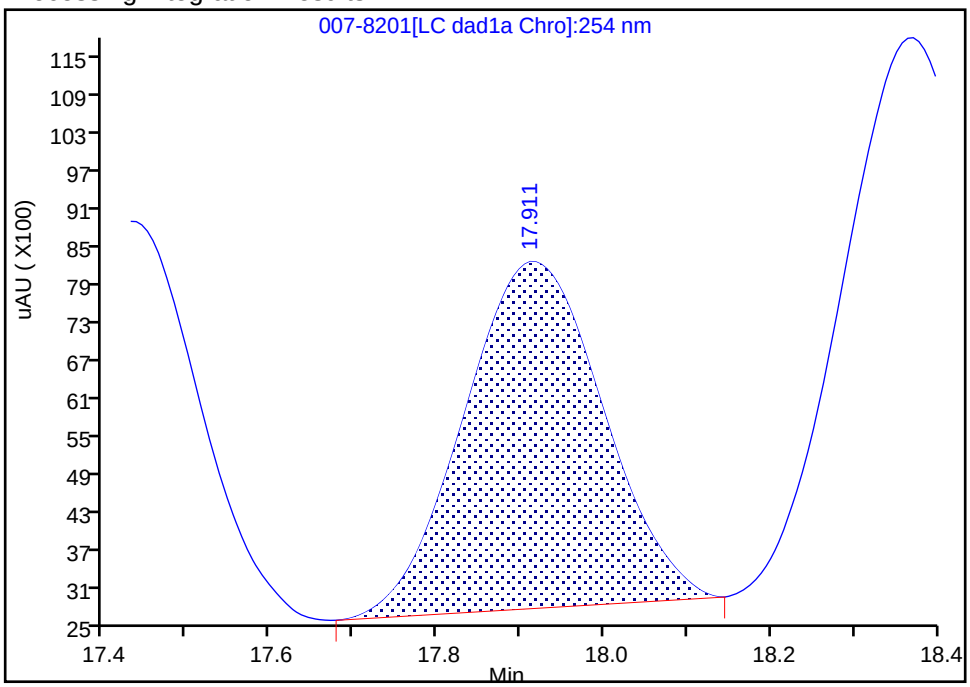
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

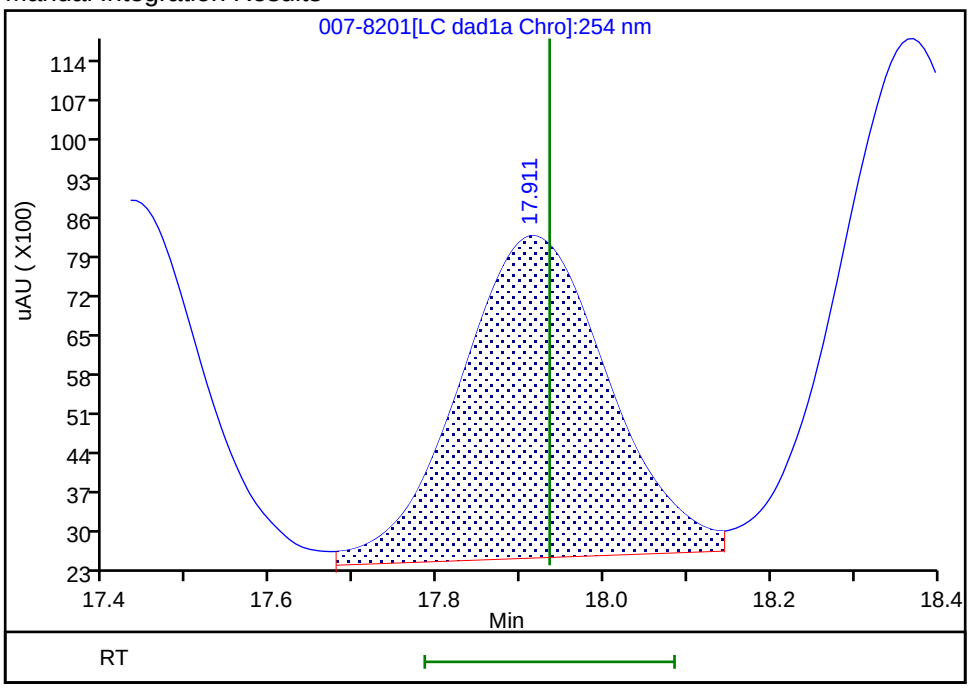
Processing Integration Results

RT: 17.91
Area: 63386
Amount: 0.212472
Amount Units: ug/ml



Manual Integration Results

RT: 17.91
Area: 71814
Amount: 0.240723
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

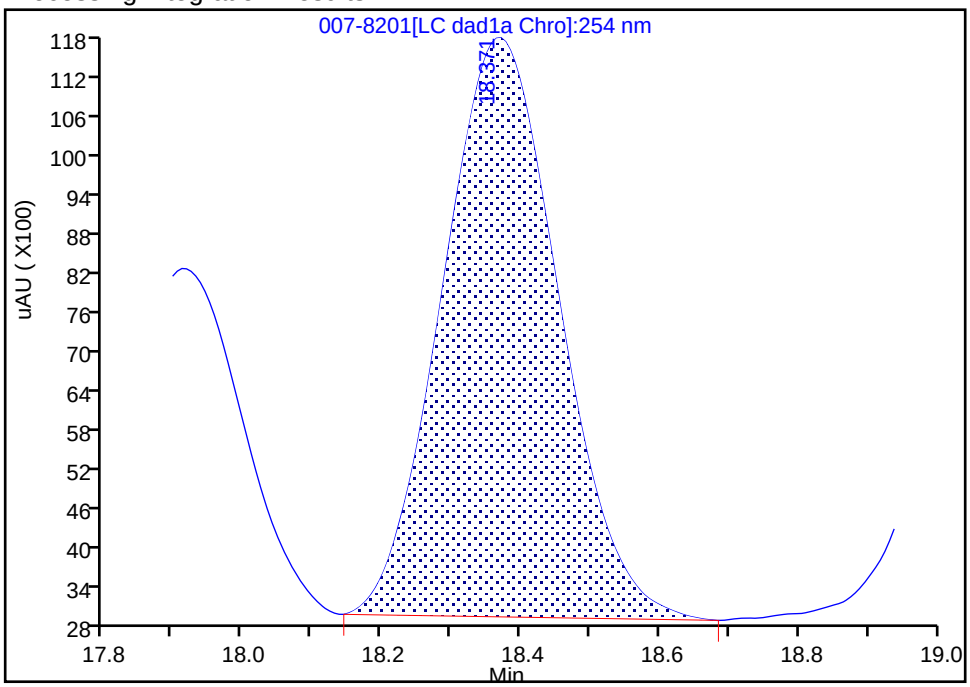
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

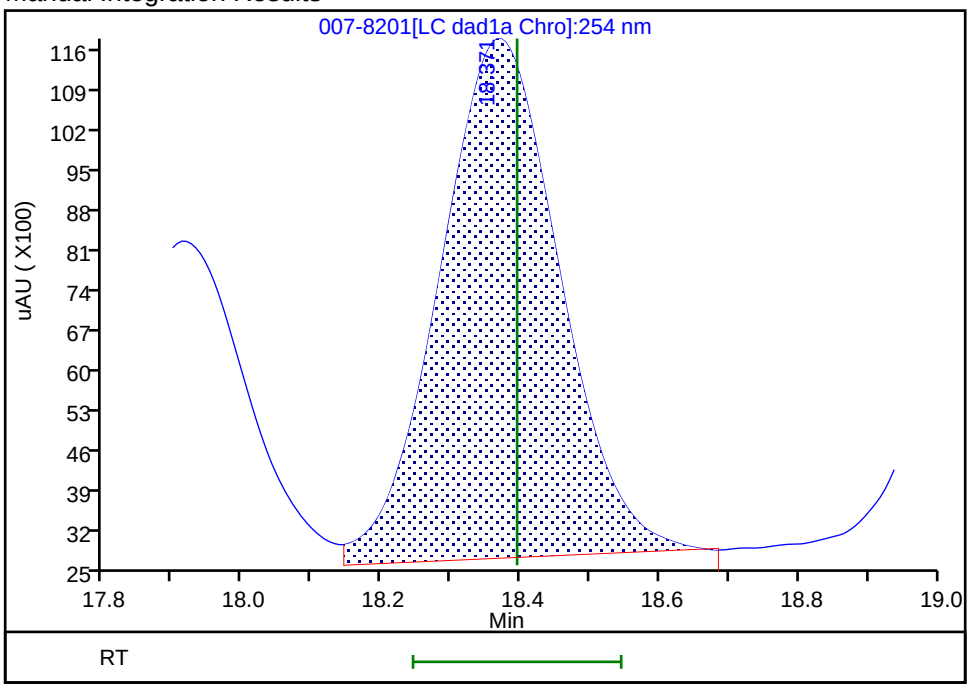
Processing Integration Results

RT: 18.37
Area: 103309
Amount: 0.222069
Amount Units: ug/ml



Manual Integration Results

RT: 18.37
Area: 108655
Amount: 0.233561
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

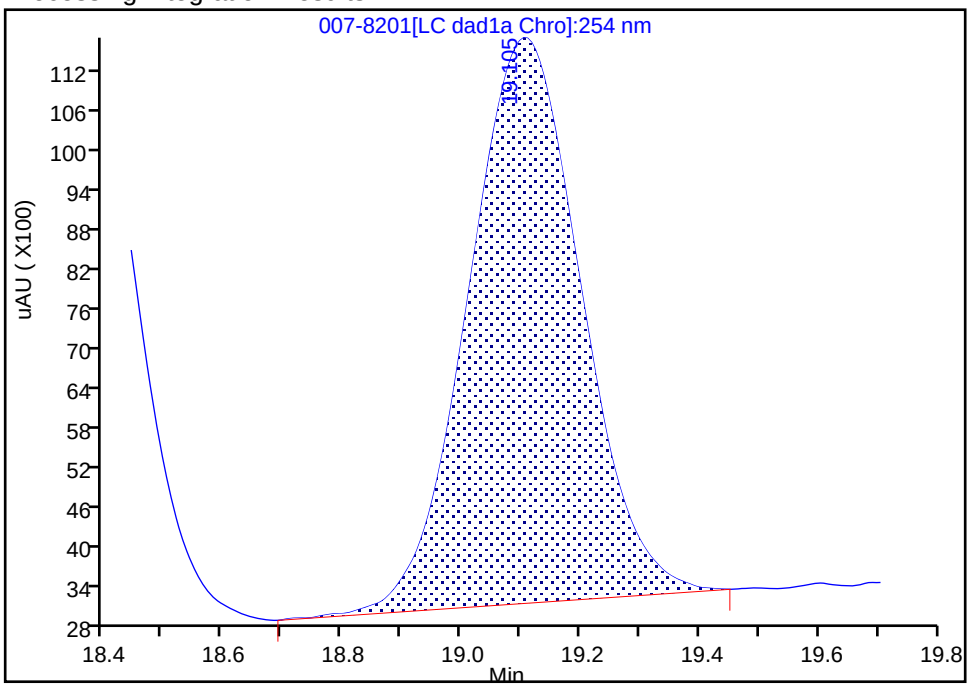
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

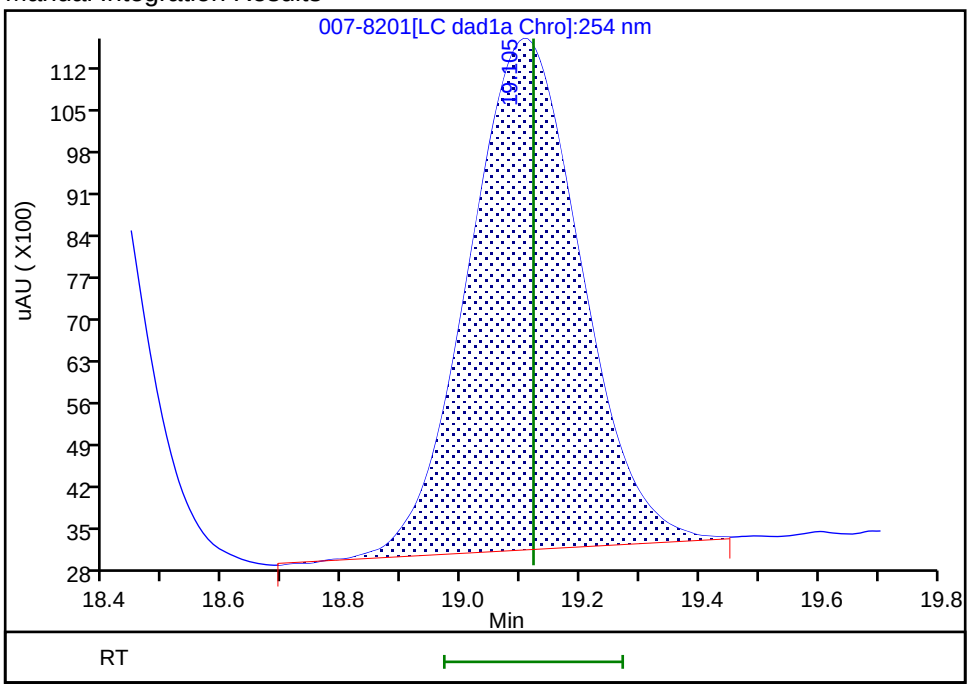
Processing Integration Results

RT: 19.10
Area: 113048
Amount: 0.239280
Amount Units: ug/ml



Manual Integration Results

RT: 19.10
Area: 112934
Amount: 0.239039
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

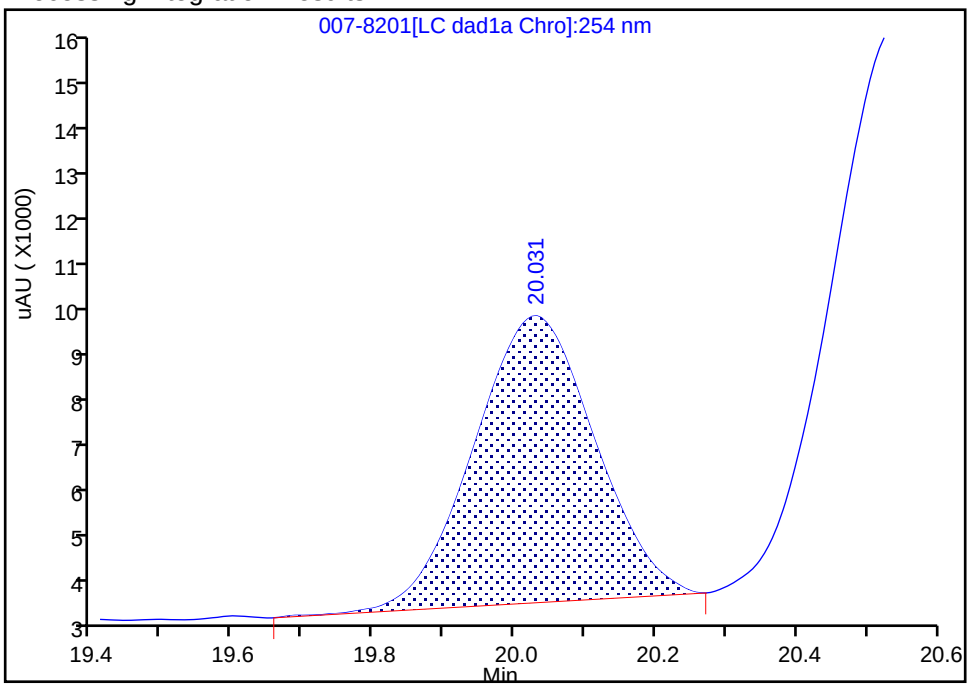
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

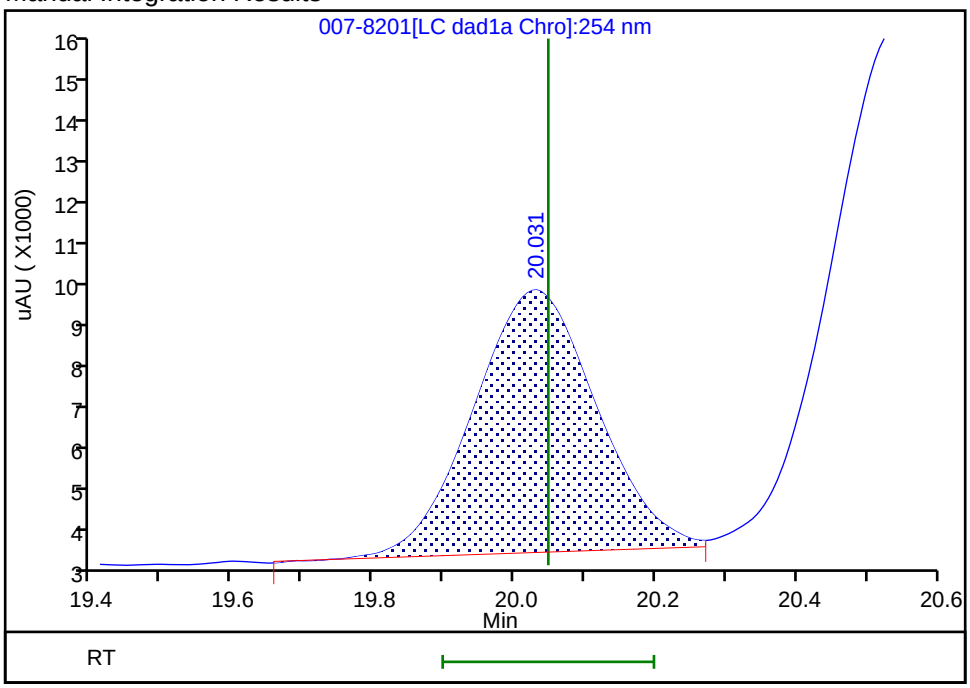
Processing Integration Results

RT: 20.03
Area: 70197
Amount: 0.227375
Amount Units: ug/ml



Manual Integration Results

RT: 20.03
Area: 72148
Amount: 0.234121
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

Eurofins TestAmerica, Denver

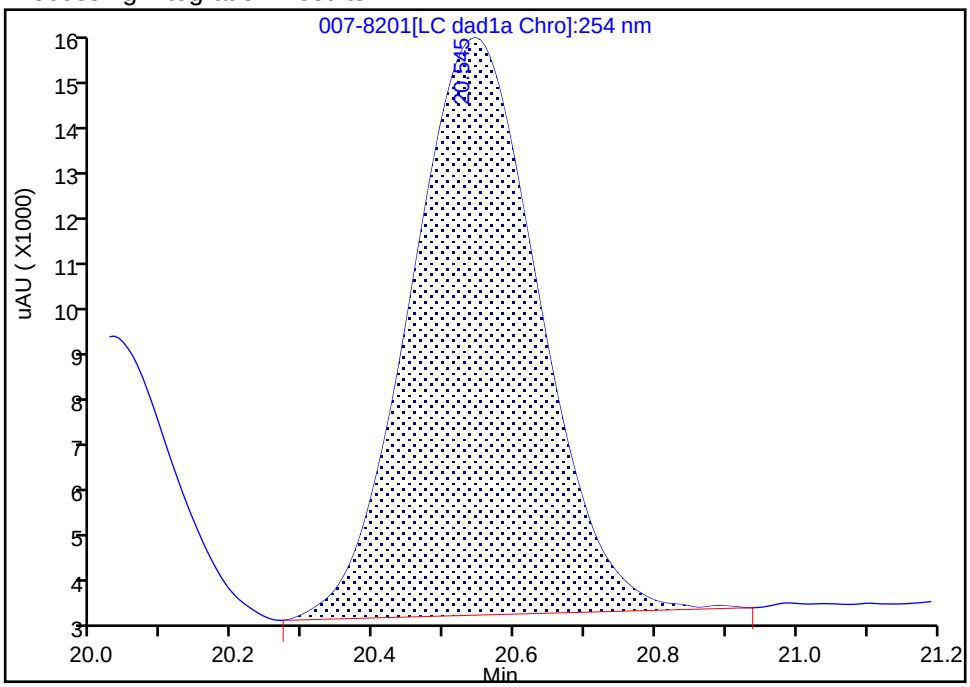
Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\007-8201.d				
Injection Date:	19-Jun-2020 14:50:12	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

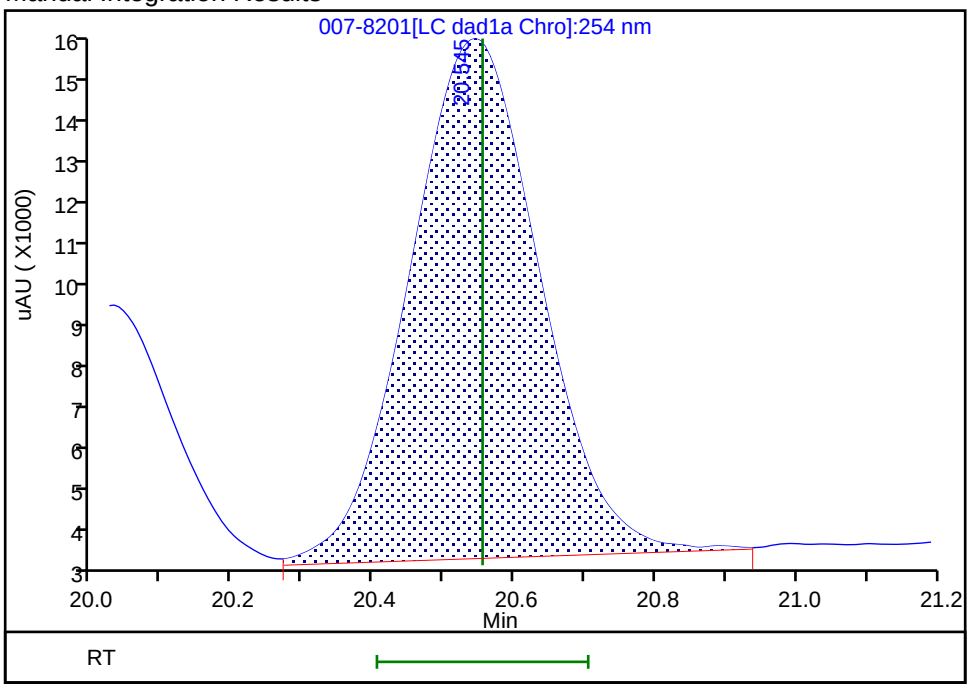
Processing Integration Results

RT: 20.54
Area: 145980
Amount: 0.228053
Amount Units: ug/ml



Manual Integration Results

RT: 20.54
Area: 149460
Amount: 0.233490
Amount Units: ug/ml



Reviewer: zhangji, 19-Jun-2020 16:40:50
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/20 Calibration Date: 06/19/2020 15:25

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 008-8301.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	408484		235	250	-6.3	15.0
DNX	Ave	321206	305055		238	250	-5.0	15.0
MNX	Lin2		283332		289	292	-0.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499350/20 Calibration Date: 06/19/2020 15:25

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 008-8301.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.52	5.36	5.66
DNX	6.36	6.19	6.49
MNX	7.92	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\008-8301.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	19-Jun-2020 15:25:13	ALS Bottle#:	8	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092563-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200618-92563.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	19-Jun-2020 20:25:59	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1007				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.517	5.509	0.008	102223	0.2503	0.2346	
4 DNX	1	6.357	6.336	0.021	76340	0.2503	0.2377	
7 MNX	1	7.917	7.876	0.041	82662	0.2918	0.2895	

Reagents:

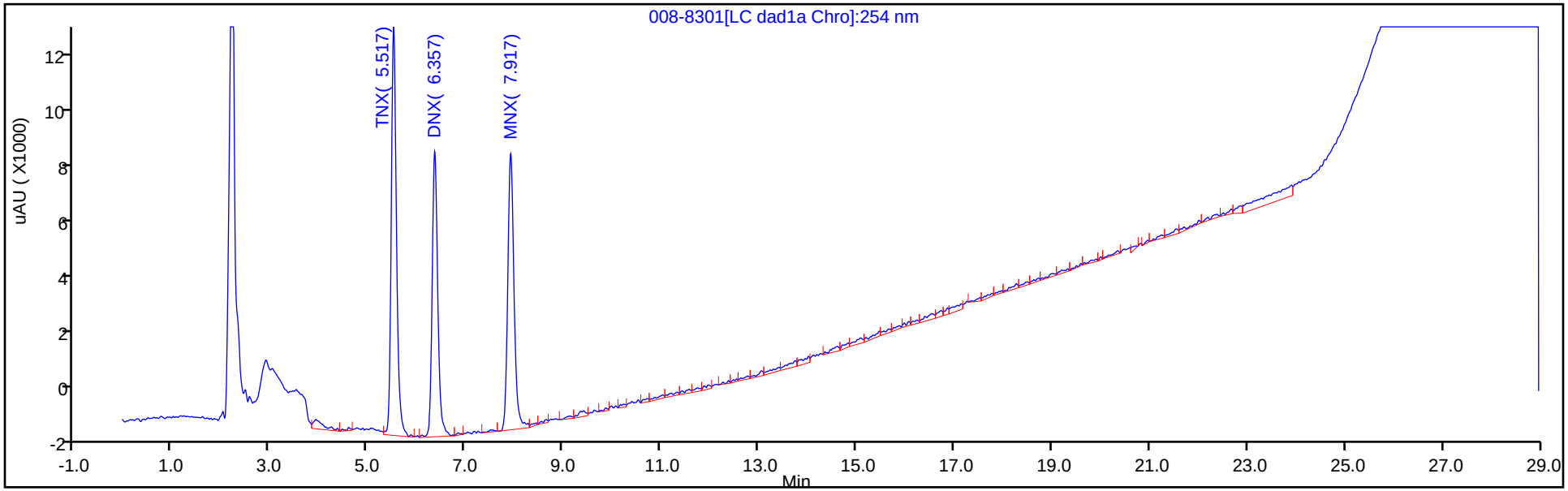
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 19-Jun-2020 20:25:59 Chrom Revision: 2.3 17-Jun-2020 19:07:08

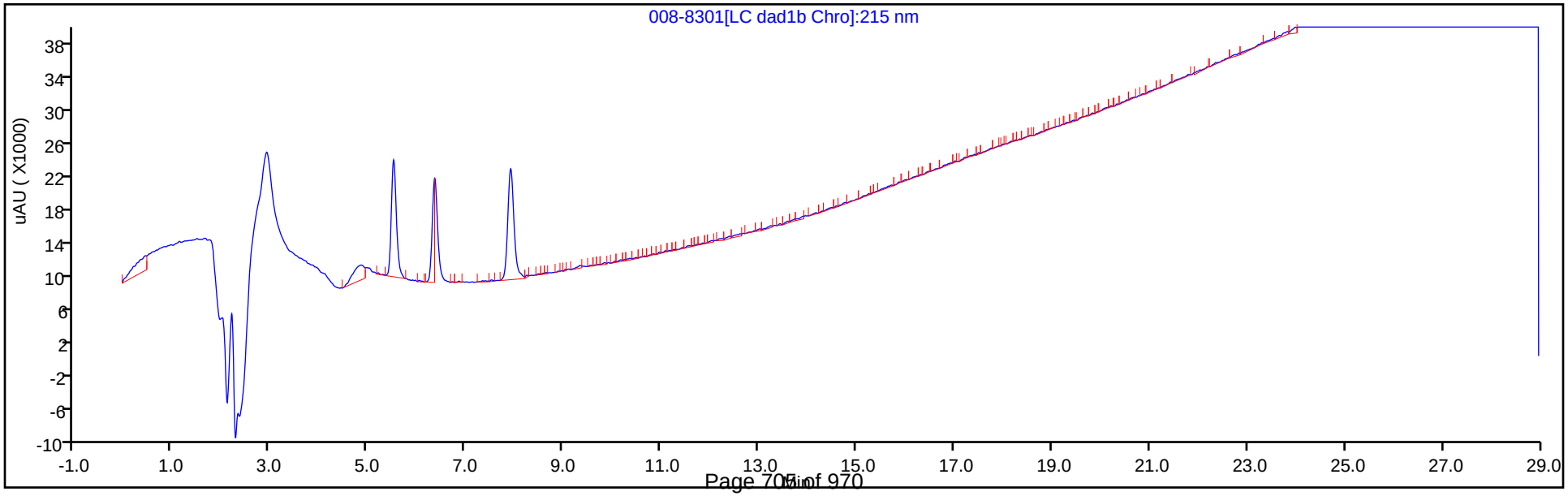
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200618-92563.b\008-8301.d				
Injection Date:	19-Jun-2020 15:25:13	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-487658/33 Calibration Date: 03/05/2020 00:03

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 03040033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	189186		348	400	-13.1	15.0
DNX	Ave	152928	145270		380	400	-5.0	15.0
MNX	Ave	158544	136780		403	467	-13.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-487658/33 Calibration Date: 03/05/2020 00:03

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 03040033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.59	6.49	6.69
DNX	6.91	6.81	7.01
MNX	7.36	7.21	7.51

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040033.D				
Lims ID:	ICV DMT				
Client ID:					
Sample Type:	ICV				
Inject. Date:	05-Mar-2020 00:03:48	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	ICV DMT				
Misc. Info.:	280-0089779-033				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:					
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:28	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				

First Level Reviewer: beckerc Date: 05-Mar-2020 08:37:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.594	6.594	0.000	75750	0.4004	0.3481	M
5 DNX	1	6.914	6.914	0.000	58166	0.4004	0.3803	M
6 MNX	1	7.361	7.361	0.000	63849	0.4668	0.4027	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

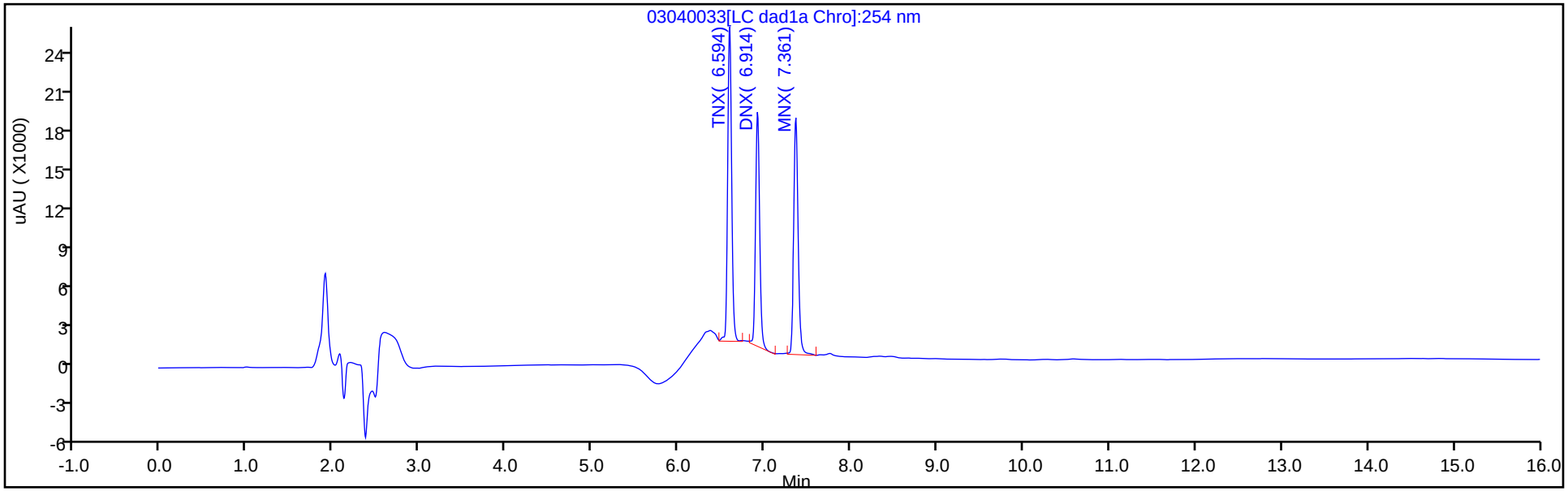
8330_OP_DMT_00006 Amount Added: 40.00 Units: uL

Report Date: 06-Mar-2020 10:25:29 Chrom Revision: 2.3 19-Feb-2020 16:45:46

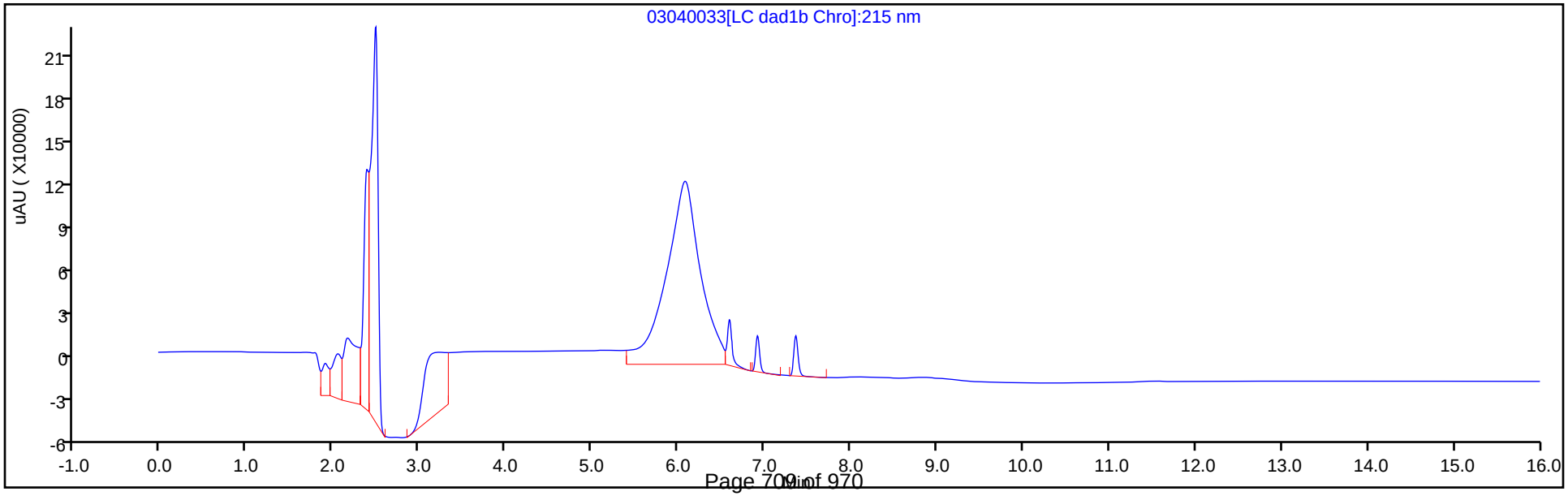
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d				
Injection Date:	05-Mar-2020 00:03:48	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	ICV DMT			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

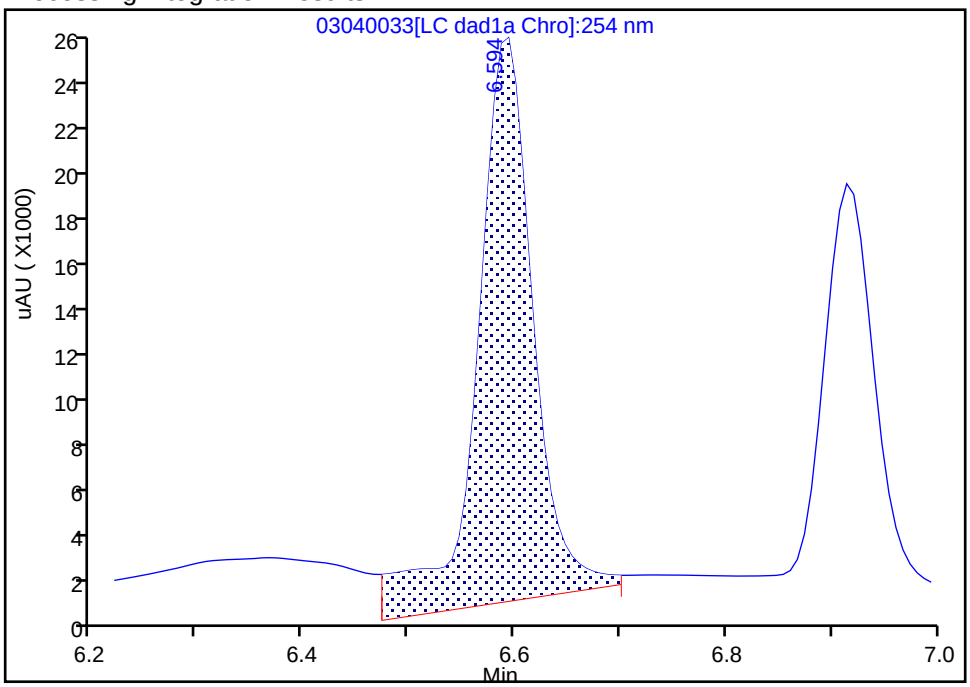
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d				
Injection Date:	05-Mar-2020 00:03:48	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:	CB	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

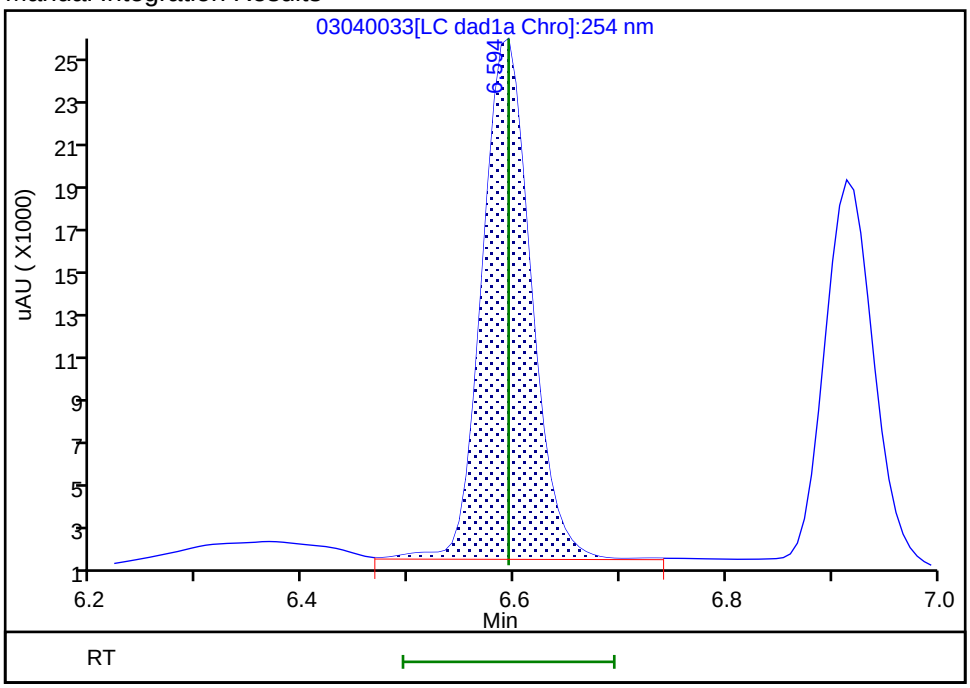
Processing Integration Results

RT: 6.59
Area: 91215
Amount: 0.419170
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 75750
Amount: 0.348102
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:37:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

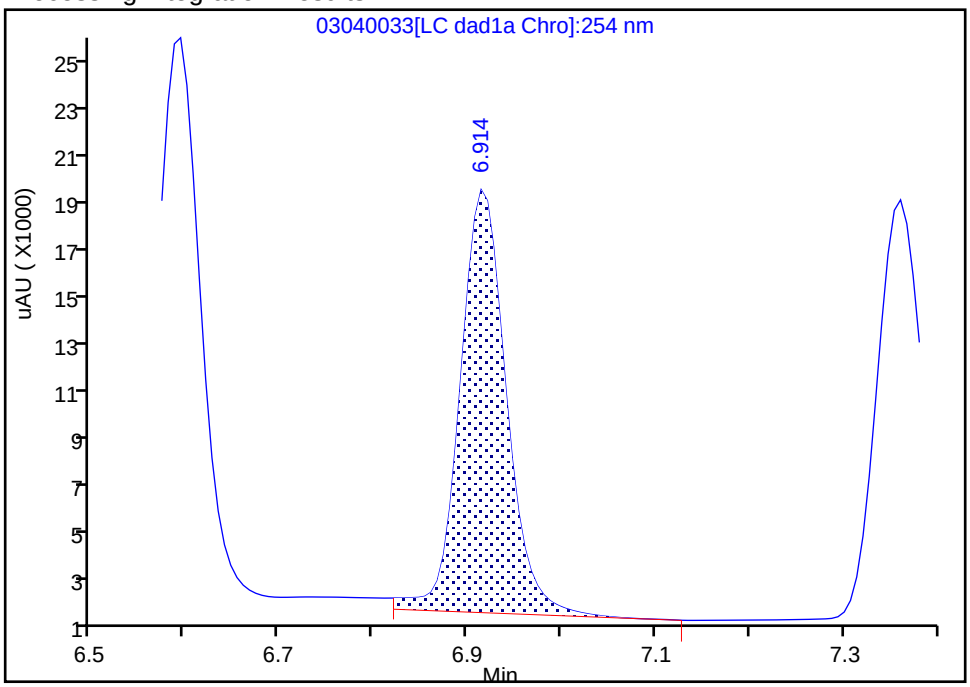
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d				
Injection Date:	05-Mar-2020 00:03:48	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:	CB	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

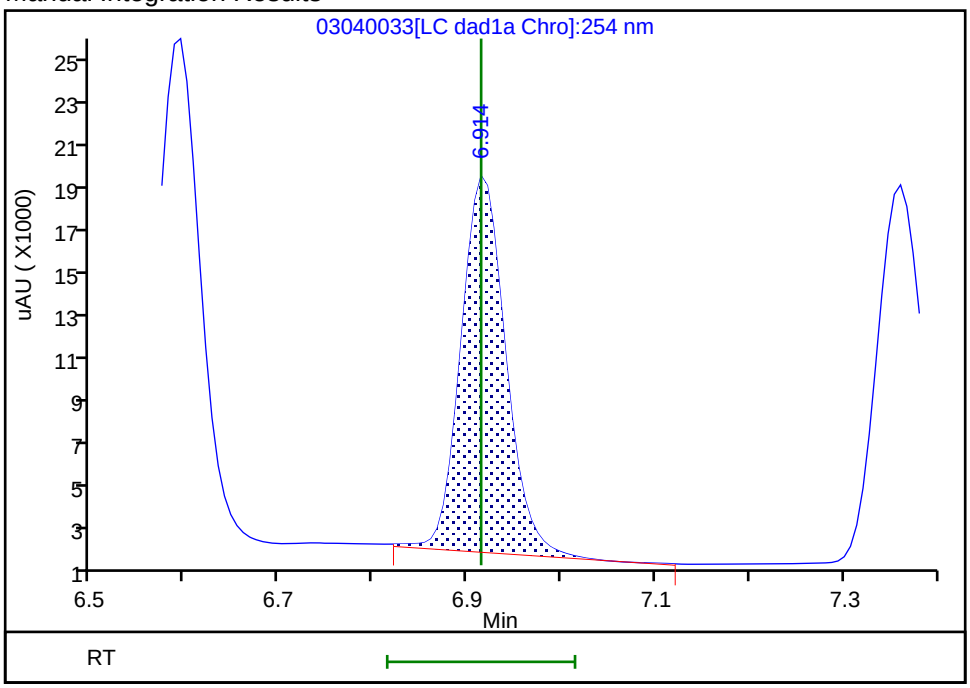
Processing Integration Results

RT: 6.91
Area: 60901
Amount: 0.398232
Amount Units: ug/mL



Manual Integration Results

RT: 6.91
Area: 58166
Amount: 0.380348
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:37:39

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-489145/16 Calibration Date: 03/18/2020 15:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 03180016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	85080		396	400	-1.0	15.0
RDX	Ave	116613	105640		362	400	-9.4	15.0
Picric acid	Ave	85131	85323		401	400	0.2	15.0
1,3,5-Trinitrobenzene	Ave	230309	238740		415	400	3.7	15.0
1,3-Dinitrobenzene	Ave	306686	307370		401	400	0.2	15.0
Nitrobenzene	Ave	200403	202493		404	400	1.0	15.0
Tetryl	Ave	177032	175175		396	400	-1.0	15.0
Nitroglycerin	Ave	68133	67461		3960	4000	-1.0	15.0
2,4,6-Trinitrotoluene	Ave	204031	204823		402	400	0.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		159183		363	400	-9.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	202785		400	400	-0.0	15.0
2,6-Dinitrotoluene	Ave	149452	151720		406	400	1.5	15.0
2,4-Dinitrotoluene	Ave	303584	291863		385	400	-3.9	15.0
2-Nitrotoluene	Ave	135051	128890		382	400	-4.6	15.0
4-Nitrotoluene	Ave	113005	112495		398	400	-0.5	15.0
3-Nitrotoluene	Ave	143029	145235		406	400	1.5	15.0
PETN	Ave	78605	75679		3850	4000	-3.7	15.0
1,2-Dinitrobenzene	Ave	138212	136648		395	400	-1.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: ICV 280-489145/16 Calibration Date: 03/18/2020 15:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 03180016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.54	6.84
RDX	7.75	7.60	7.90
Picric acid	8.06	7.91	8.21
1,3,5-Trinitrobenzene	8.89	8.74	9.04
1,3-Dinitrobenzene	9.53	9.38	9.68
Nitrobenzene	9.92	9.77	10.07
Tetryl	10.22	10.07	10.37
Nitroglycerin	10.73	10.58	10.88
2,4,6-Trinitrotoluene	11.18	11.08	11.28
4-Amino-2,6-dinitrotoluene	11.34	11.24	11.44
2-Amino-4,6-dinitrotoluene	11.63	11.53	11.73
2,6-Dinitrotoluene	11.79	11.69	11.89
2,4-Dinitrotoluene	11.98	11.88	12.08
2-Nitrotoluene	12.82	12.67	12.97
4-Nitrotoluene	13.26	13.11	13.41
3-Nitrotoluene	13.85	13.70	14.00
PETN	14.94	14.79	15.09
1,2-Dinitrobenzene	8.71	8.56	8.86

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180016.D
Lims ID: ICV MAIN
Client ID:
Sample Type: ICV
Inject. Date: 18-Mar-2020 15:02:22 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV MAIN
Misc. Info.: 280-0090150-016
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:46 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:47:14

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.685	6.685	0.000	34032	0.4000	0.3959	M
7 RDX	1	7.751	7.751	0.000	42256	0.4000	0.3624	
8 2,4,6-Trinitrophenol	1	8.058	8.058	0.000	34129	0.4000	0.4009	
$ 9 1,2-Dinitrobenzene	1	8.711	8.711	0.000	54659	0.4000	0.3955	
10 1,3,5-Trinitrobenzene	1	8.885	8.885	0.000	95496	0.4000	0.4146	
11 1,3-Dinitrobenzene	1	9.531	9.531	0.000	122948	0.4000	0.4009	
12 Nitrobenzene	1	9.918	9.918	0.000	80997	0.4000	0.4042	
14 Tetryl	1	10.218	10.218	0.000	70070	0.4000	0.3958	
15 Nitroglycerin	2	10.731	10.731	0.000	269842	4.00	3.96	
16 2,4,6-Trinitrotoluene	1	11.184	11.184	0.000	81929	0.4000	0.4016	
17 4-Amino-2,6-dinitrotoluene	1	11.344	11.344	0.000	63673	0.4000	0.3635	
18 2-Amino-4,6-dinitrotoluene	1	11.631	11.631	0.000	81114	0.4000	0.3999	
19 2,6-Dinitrotoluene	1	11.791	11.791	0.000	60688	0.4000	0.4061	
20 2,4-Dinitrotoluene	1	11.984	11.984	0.000	116745	0.4000	0.3846	
21 o-Nitrotoluene	1	12.824	12.824	0.000	51556	0.4000	0.3818	
22 p-Nitrotoluene	1	13.264	13.264	0.000	44998	0.4000	0.3982	
23 m-Nitrotoluene	1	13.851	13.851	0.000	58094	0.4000	0.4062	
24 PETN	2	14.938	14.938	0.000	302716	4.00	3.85	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

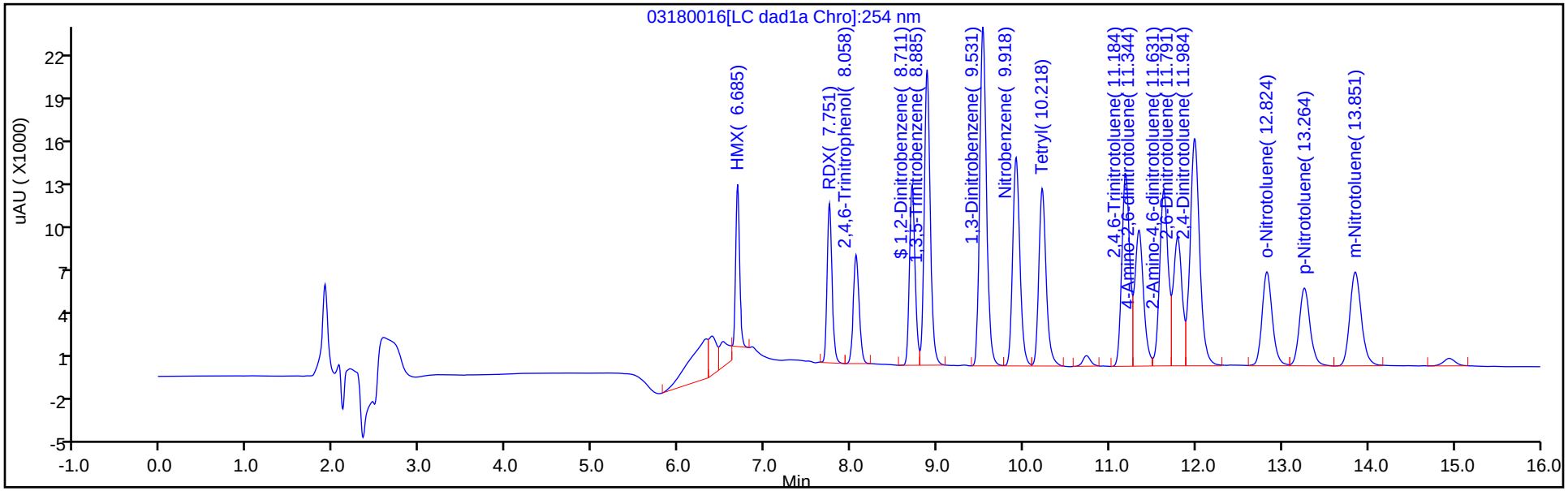
8330Surrogate_00110 Amount Added: 40.00 Units: uL
8330 LCS_00095 Amount Added: 40.00 Units: uL

Report Date: 26-Mar-2020 15:45:47 Chrom Revision: 2.3 11-Mar-2020 18:53:20

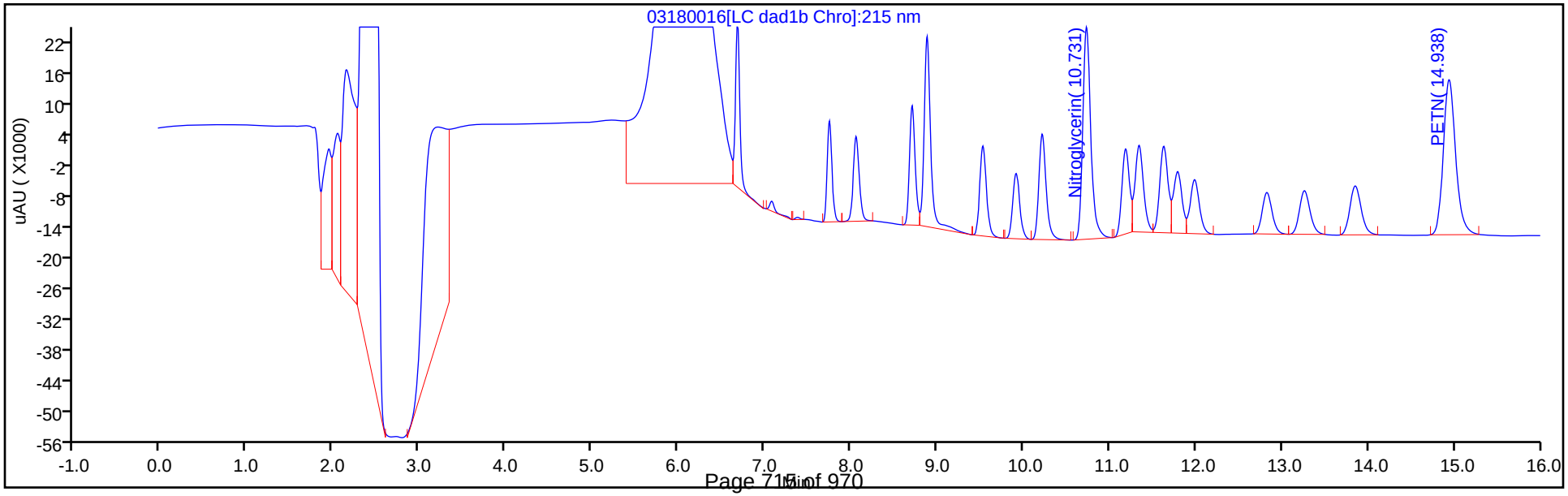
Eurofins TestAmerica, Denver

Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180016.d				
Injection Date:	18-Mar-2020 15:02:22	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	ICV MAIN			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

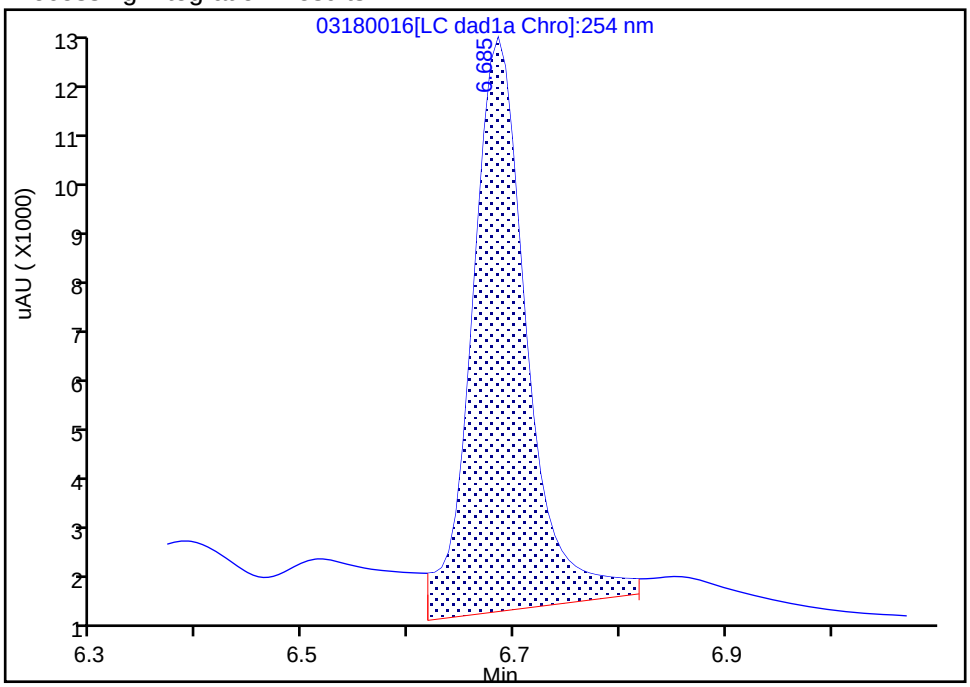
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180016.d				
Injection Date:	18-Mar-2020 15:02:22	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV MAIN				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

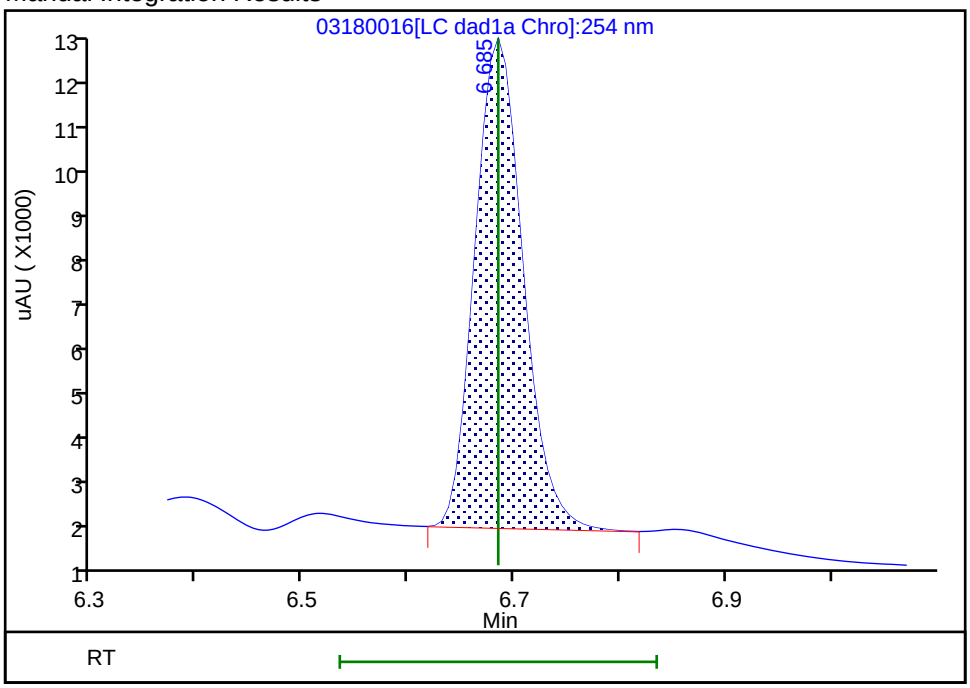
Processing Integration Results

RT: 6.68
Area: 41406
Amount: 0.494354
Amount Units: ug/mL



Manual Integration Results

RT: 6.68
Area: 34032
Amount: 0.395895
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:47:09

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/16 Calibration Date: 06/11/2020 18:25

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06110016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	89636		261	250	4.3	15.0
RDX	Ave	116613	112508		241	250	-3.5	15.0
Picric acid	Ave	85131	88508		260	250	4.0	15.0
1,3,5-Trinitrobenzene	Ave	230309	239924		261	251	4.2	15.0
1,3-Dinitrobenzene	Ave	306686	324196		265	251	5.7	15.0
Nitrobenzene	Ave	200403	207486		260	251	3.5	15.0
Tetryl	Ave	177032	183401		260	251	3.6	15.0
Nitroglycerin	Ave	68133	74447		2730	2500	9.3	15.0
2,4,6-Trinitrotoluene	Ave	204031	217434		267	251	6.6	15.0
4-Amino-2,6-dinitrotoluene	Lin2		170314		245	250	-1.9	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	214709		266	251	5.9	15.0
2,6-Dinitrotoluene	Ave	149452	157964		265	251	5.7	15.0
2,4-Dinitrotoluene	Ave	303584	319865		264	251	5.4	15.0
2-Nitrotoluene	Ave	135051	135492		251	250	0.3	15.0
4-Nitrotoluene	Ave	113005	116551		258	251	3.1	15.0
3-Nitrotoluene	Ave	143029	148056		259	250	3.5	15.0
PETN	Ave	78605	84888		2700	2500	8.0	15.0
1,2-Dinitrobenzene	Ave	138212	145228		263	250	5.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/16 Calibration Date: 06/11/2020 18:25

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06110016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.55	6.85
RDX	7.80	7.63	7.93
Picric acid	8.10	7.92	8.22
1,3,5-Trinitrobenzene	8.94	8.77	9.07
1,3-Dinitrobenzene	9.60	9.42	9.72
Nitrobenzene	9.97	9.80	10.10
Tetryl	10.28	10.11	10.41
Nitroglycerin	10.80	10.61	10.91
2,4,6-Trinitrotoluene	11.26	11.12	11.32
4-Amino-2,6-dinitrotoluene	11.42	11.28	11.48
2-Amino-4,6-dinitrotoluene	11.71	11.56	11.76
2,6-Dinitrotoluene	11.85	11.71	11.91
2,4-Dinitrotoluene	12.05	11.91	12.11
2-Nitrotoluene	12.88	12.69	12.99
4-Nitrotoluene	13.32	13.13	13.43
3-Nitrotoluene	13.90	13.71	14.01
PETN	14.97	14.82	15.12
1,2-Dinitrobenzene	8.76	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110016.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 11-Jun-2020 18:25:15 ALS Bottle#: 7 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092324-016
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:55 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji Date: 11-Jun-2020 18:51:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.715	6.696	0.019	22409	0.2500	0.2607	M
7 RDX	1	7.802	7.776	0.026	28127	0.2500	0.2412	
8 2,4,6-Trinitrophenol	1	8.102	8.069	0.033	22127	0.2500	0.2599	
$ 9 1,2-Dinitrobenzene	1	8.762	8.743	0.019	36307	0.2500	0.2627	
10 1,3,5-Trinitrobenzene	1	8.942	8.916	0.026	60101	0.2505	0.2610	
11 1,3-Dinitrobenzene	1	9.595	9.569	0.026	81211	0.2505	0.2648	
12 Nitrobenzene	1	9.969	9.949	0.020	52079	0.2510	0.2599	
14 Tetryl	1	10.282	10.256	0.026	45942	0.2505	0.2595	
15 Nitroglycerin	2	10.795	10.762	0.033	186117	2.50	2.73	M
16 2,4,6-Trinitrotoluene	1	11.255	11.222	0.033	54576	0.2510	0.2675	
17 4-Amino-2,6-dinitrotoluene	1	11.415	11.376	0.039	42621	0.2503	0.2455	
18 2-Amino-4,6-dinitrotoluene	1	11.709	11.662	0.047	53892	0.2510	0.2657	
19 2,6-Dinitrotoluene	1	11.849	11.809	0.040	39649	0.2510	0.2653	
20 2,4-Dinitrotoluene	1	12.049	12.009	0.040	80286	0.2510	0.2645	
21 o-Nitrotoluene	1	12.875	12.842	0.033	33873	0.2500	0.2508	
22 p-Nitrotoluene	1	13.315	13.276	0.039	29196	0.2505	0.2584	
23 m-Nitrotoluene	1	13.902	13.862	0.040	37051	0.2503	0.2590	
24 PETN	2	14.969	14.969	0.000	212219	2.50	2.70	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

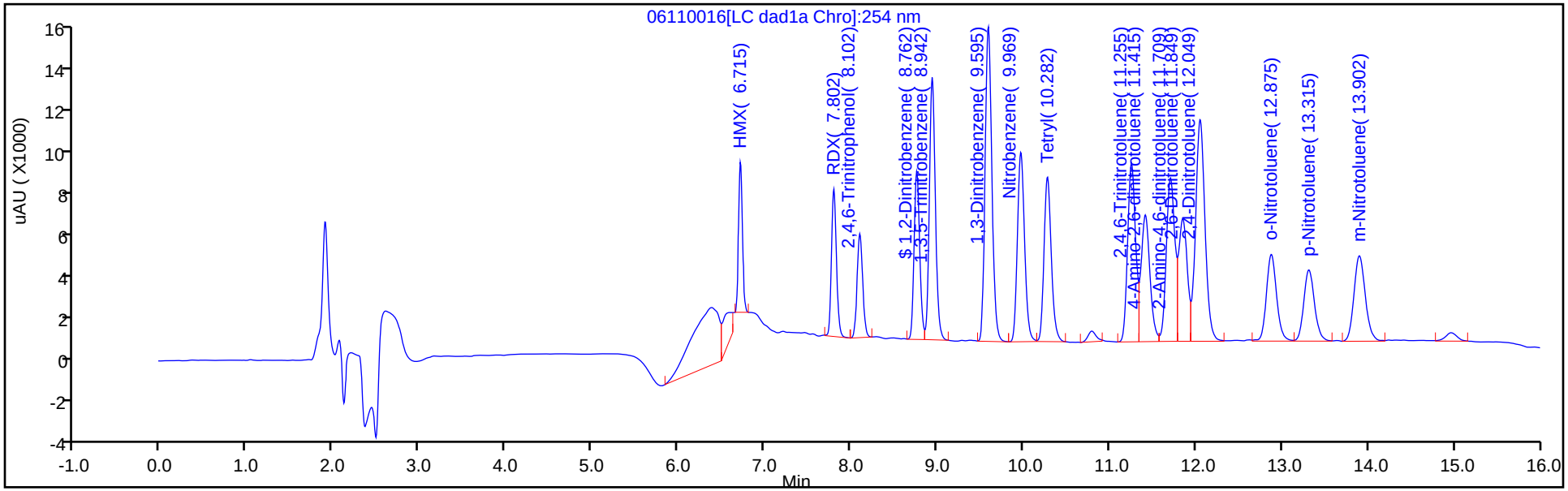
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 12-Jun-2020 12:39:56 Chrom Revision: 2.3 10-Jun-2020 22:46:48

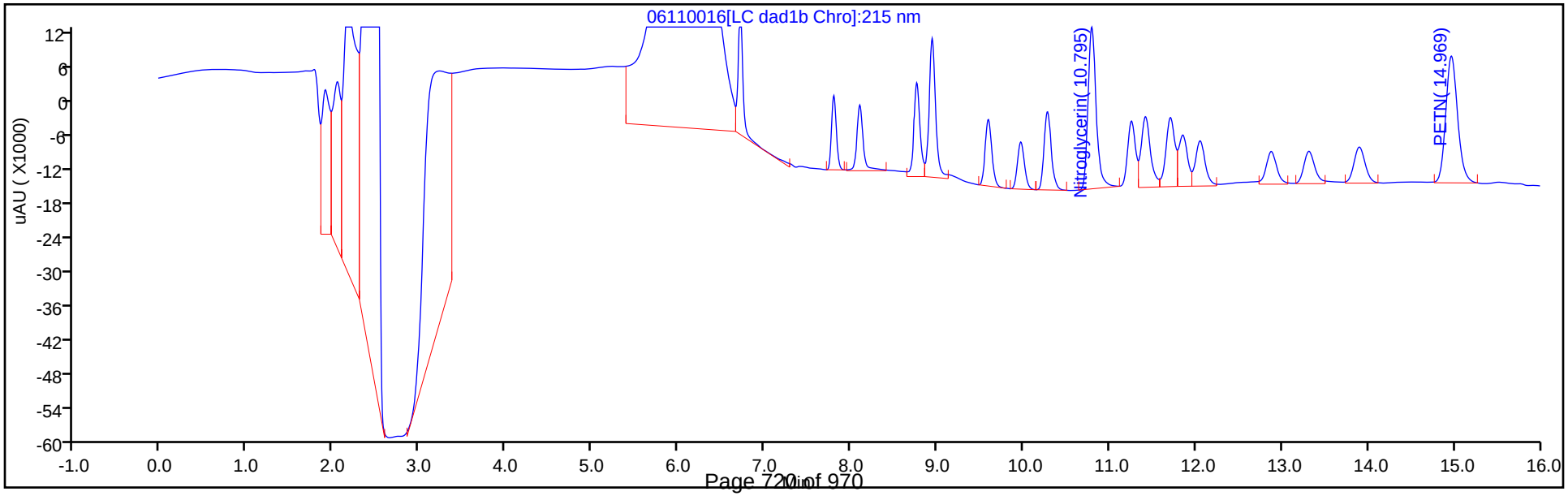
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110016.d				
Injection Date:	11-Jun-2020 18:25:15	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	16
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

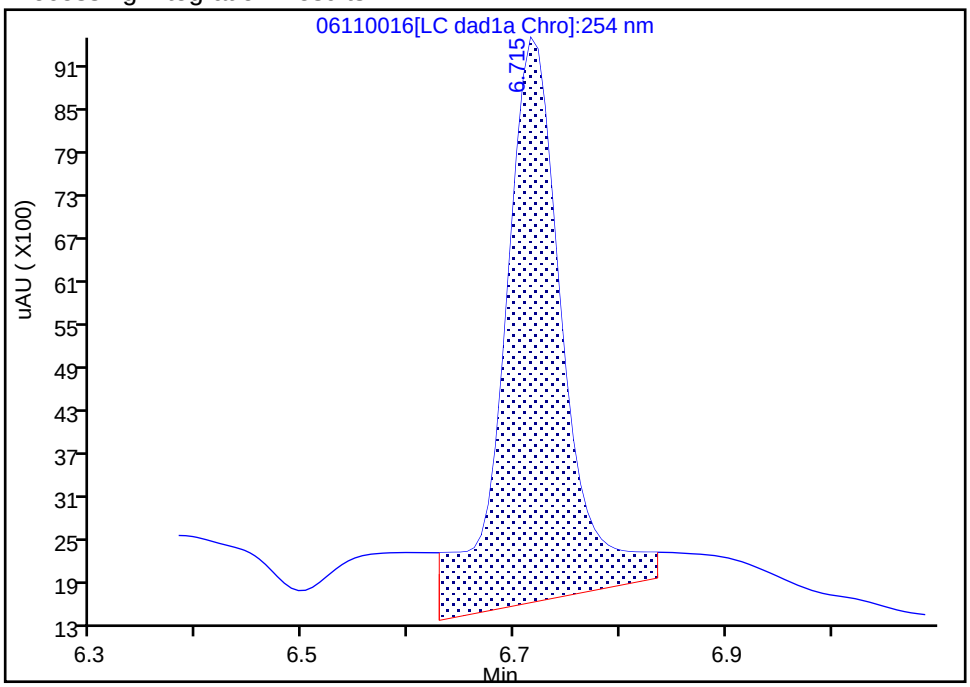
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110016.d				
Injection Date:	11-Jun-2020 18:25:15	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

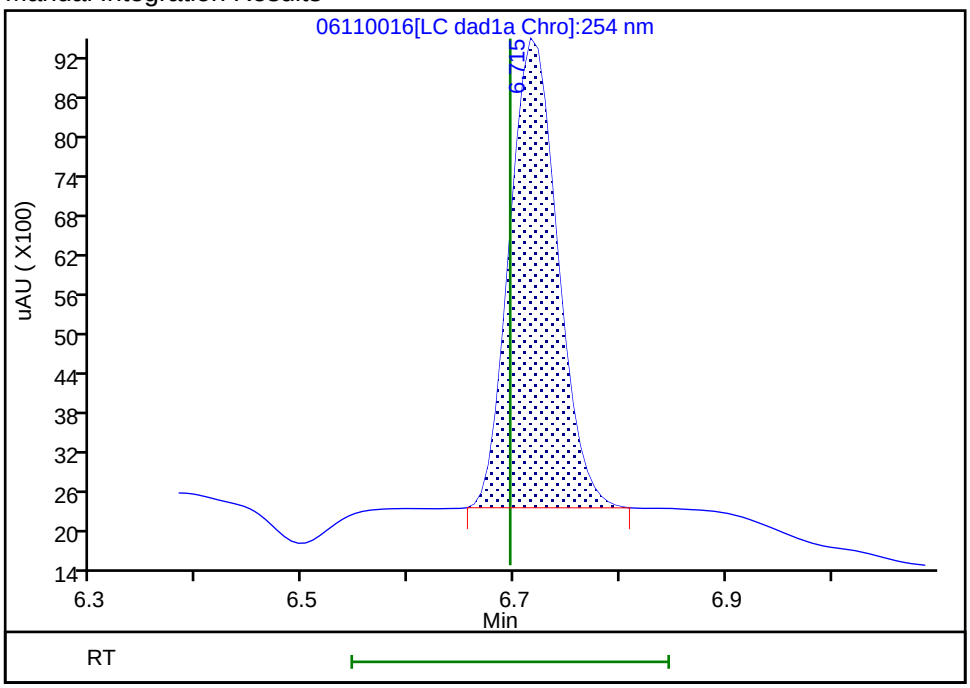
Processing Integration Results

RT: 6.72
Area: 30506
Amount: 0.354877
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 22409
Amount: 0.260684
Amount Units: ug/mL



Reviewer: zhangji, 11-Jun-2020 18:51:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

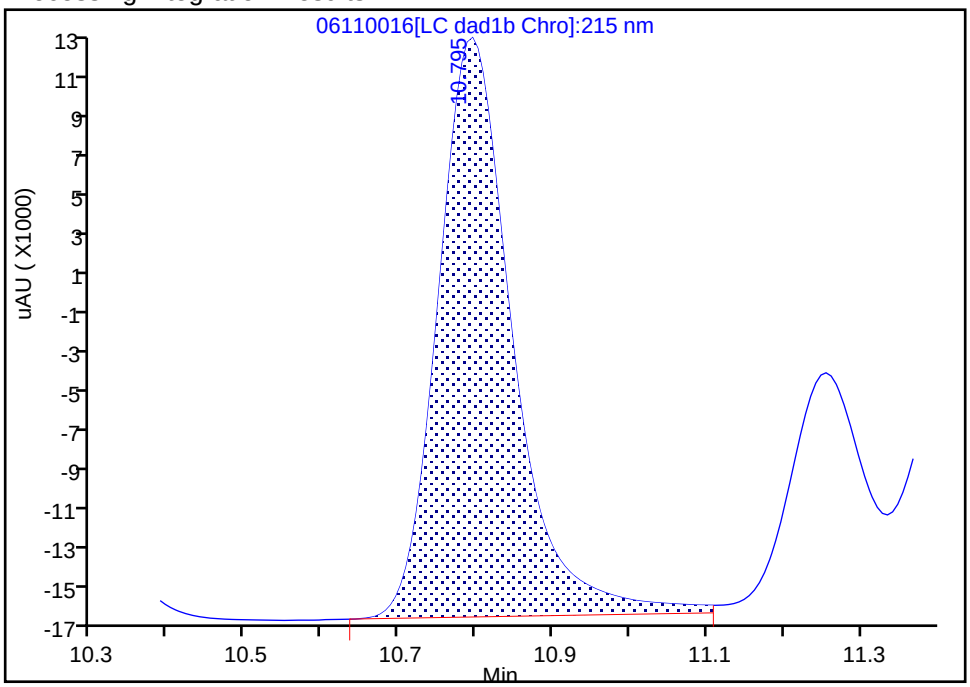
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110016.d				
Injection Date:	11-Jun-2020 18:25:15	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1C, 215 nm		

15 Nitroglycerin, CAS: 55-63-0

Signal: 1

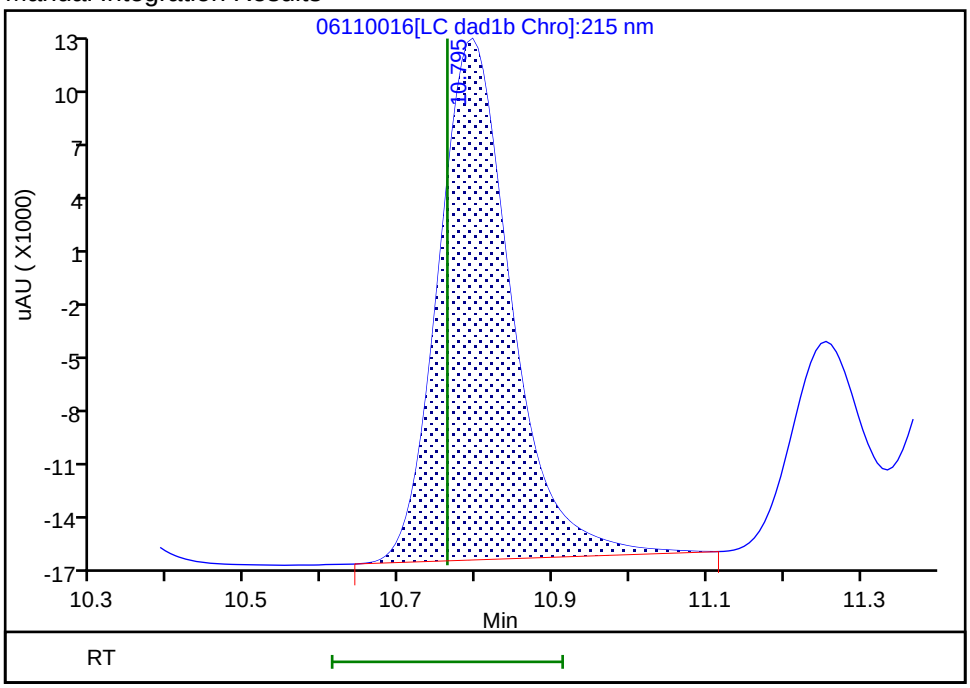
Processing Integration Results

RT: 10.80
Area: 191160
Amount: 2.805670
Amount Units: ug/mL



Manual Integration Results

RT: 10.80
Area: 186117
Amount: 2.731653
Amount Units: ug/mL



Reviewer: zhangji, 11-Jun-2020 18:51:32

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/17 Calibration Date: 06/11/2020 18:48

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06110017.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	205283		236	250	-5.7	15.0
DNX	Ave	152928	151393		248	250	-1.0	15.0
MNX	Ave	158544	138989		256	292	-12.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/17 Calibration Date: 06/11/2020 18:48

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06110017.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.39	7.26	7.56

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110017.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	11-Jun-2020 18:48:28	ALS Bottle#:	9	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092324-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:56	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				

First Level Reviewer: zhangji Date: 12-Jun-2020 11:34:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.619	6.627	-0.008	51372	0.2503	0.2361	M
5 DNX	1	6.946	6.954	-0.008	37886	0.2503	0.2477	M
6 MNX	1	7.393	7.407	-0.014	40550	0.2918	0.2558	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

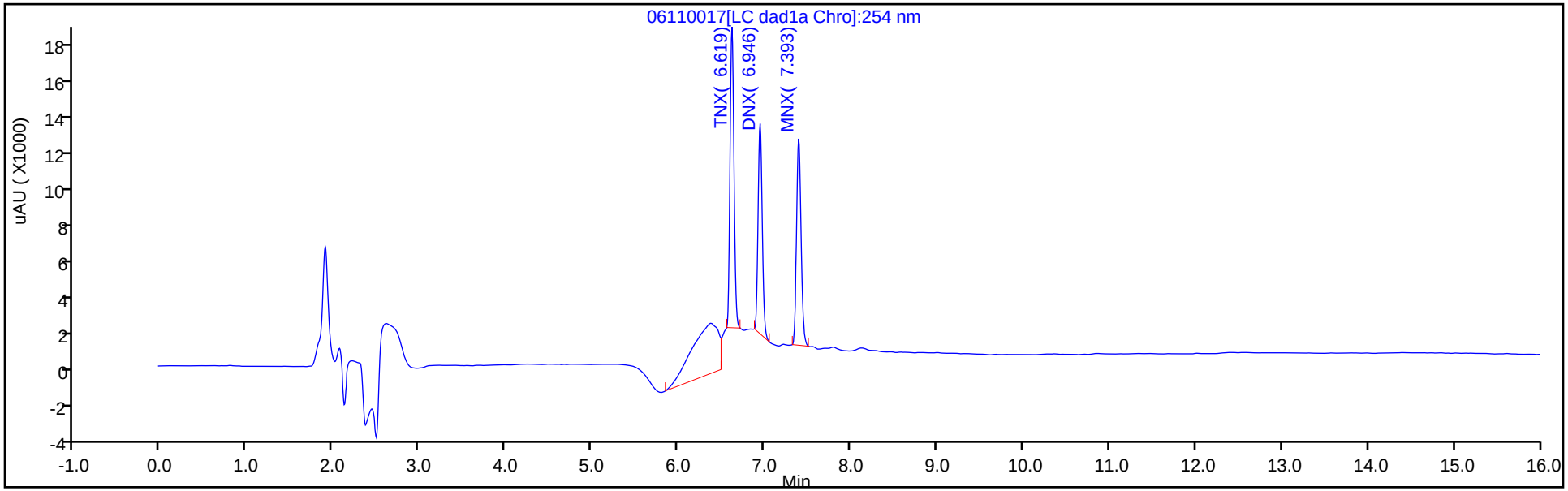
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 12-Jun-2020 12:39:56 Chrom Revision: 2.3 10-Jun-2020 22:46:48

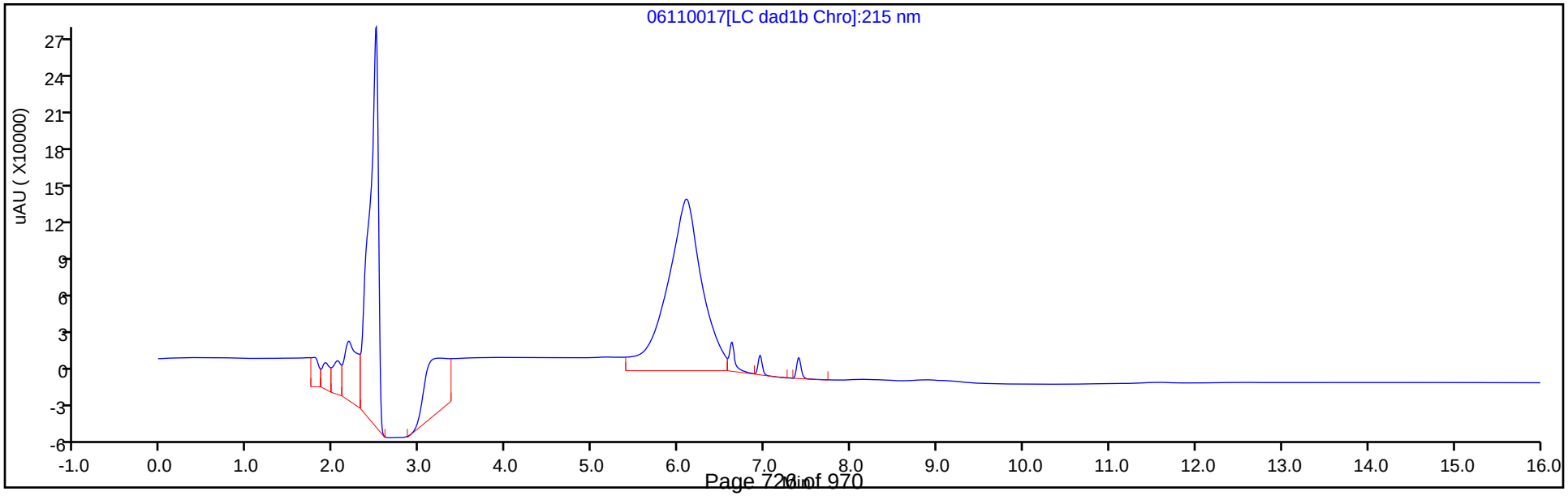
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d				
Injection Date:	11-Jun-2020 18:48:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	17
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

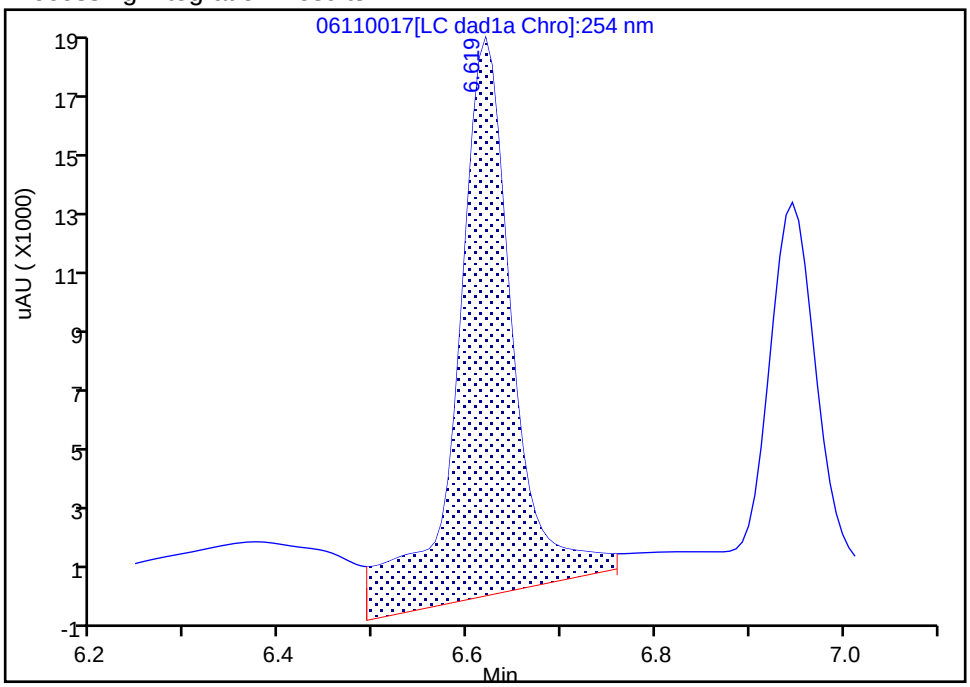
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d				
Injection Date:	11-Jun-2020 18:48:28	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

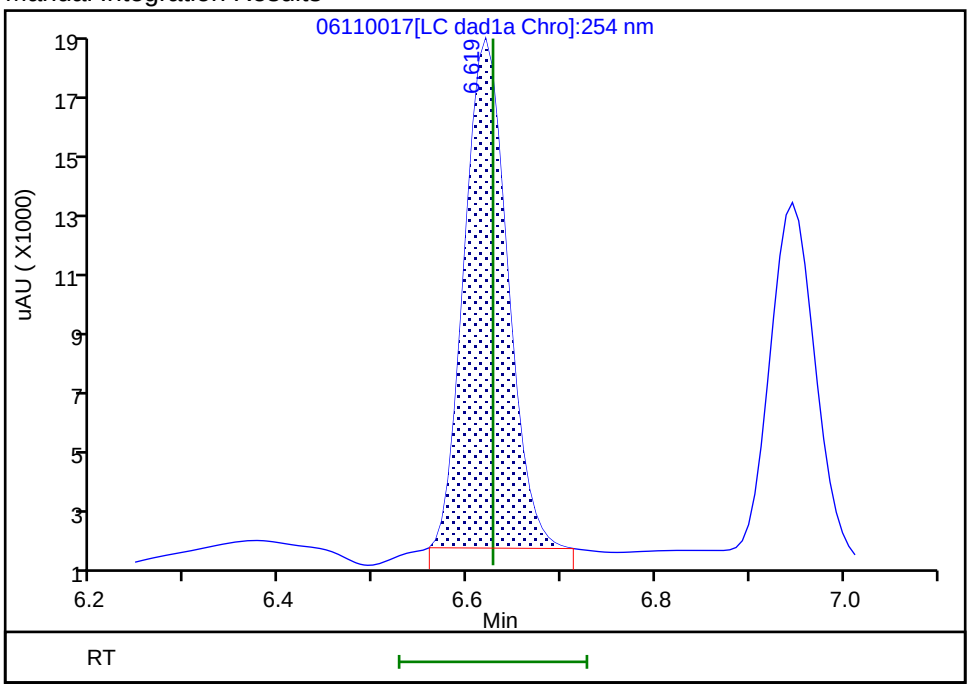
Processing Integration Results

RT: 6.62
Area: 72684
Amount: 0.334012
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 51372
Amount: 0.236075
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:33:49

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

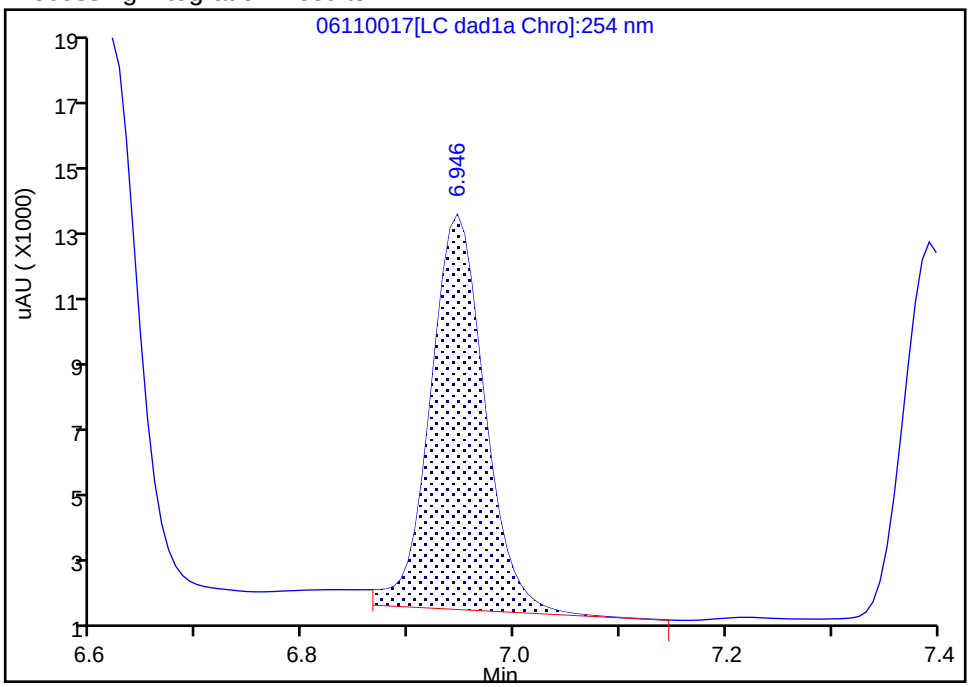
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d				
Injection Date:	11-Jun-2020 18:48:28	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

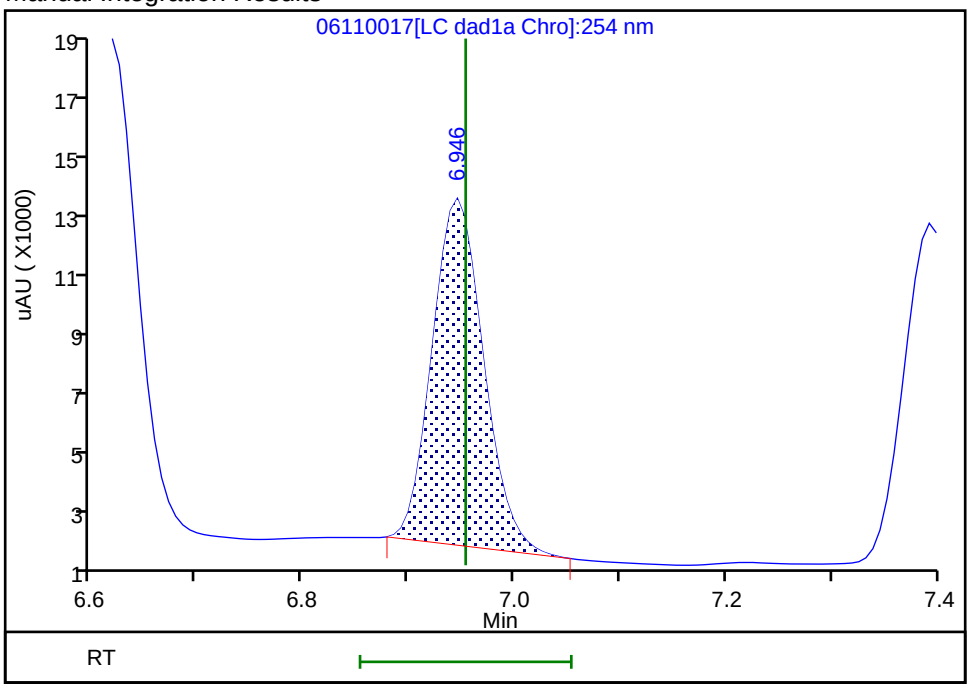
Processing Integration Results

RT: 6.95
Area: 41278
Amount: 0.269917
Amount Units: ug/mL



Manual Integration Results

RT: 6.95
Area: 37886
Amount: 0.247737
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:33:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

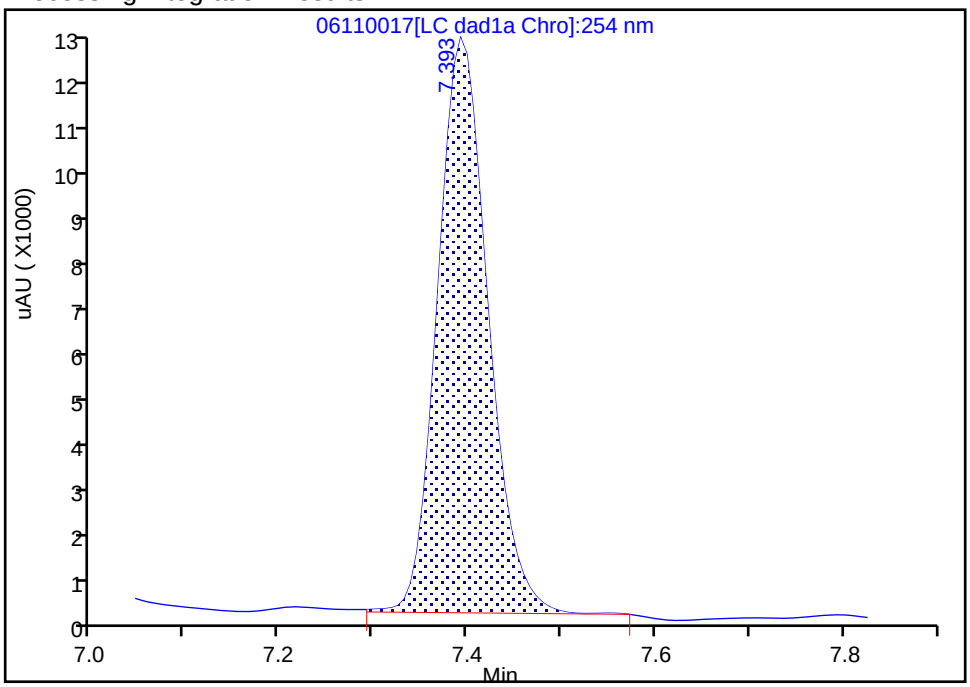
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d				
Injection Date:	11-Jun-2020 18:48:28	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

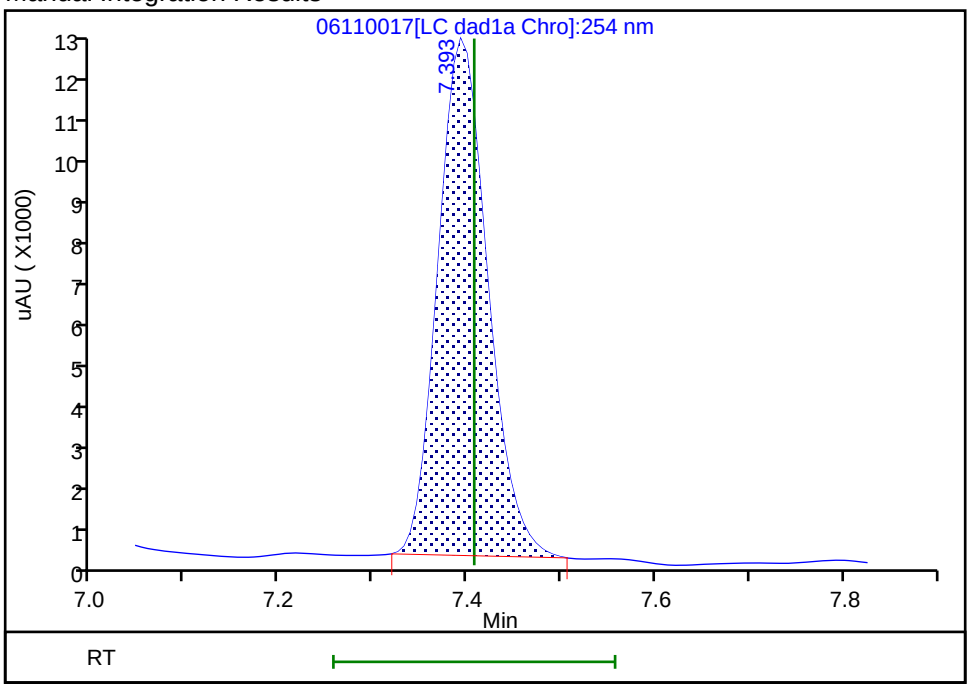
Processing Integration Results

RT: 7.39
Area: 41342
Amount: 0.260760
Amount Units: ug/mL



Manual Integration Results

RT: 7.39
Area: 40550
Amount: 0.255765
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:34:01
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/32 Calibration Date: 06/12/2020 00:33

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06110032.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	89544		260	250	4.2	15.0
RDX	Ave	116613	111180		238	250	-4.7	15.0
Picric acid	Ave	85131	88212		259	250	3.6	15.0
1,3,5-Trinitrobenzene	Ave	230309	240379		261	251	4.4	15.0
1,3-Dinitrobenzene	Ave	306686	322715		264	251	5.2	15.0
Nitrobenzene	Ave	200403	201590		252	251	0.6	15.0
Tetryl	Ave	177032	181481		257	251	2.5	15.0
Nitroglycerin	Ave	68133	73021		2680	2500	7.2	15.0
2,4,6-Trinitrotoluene	Ave	204031	216335		266	251	6.0	15.0
4-Amino-2,6-dinitrotoluene	Lin2		171081		247	250	-1.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	208861		258	251	3.0	15.0
2,6-Dinitrotoluene	Ave	149452	163789		275	251	9.6	15.0
2,4-Dinitrotoluene	Ave	303584	323753		268	251	6.6	15.0
2-Nitrotoluene	Ave	135051	135284		250	250	0.2	15.0
4-Nitrotoluene	Ave	113005	118343		262	251	4.7	15.0
3-Nitrotoluene	Ave	143029	149091		261	250	4.2	15.0
PETN	Ave	78605	84345		2680	2500	7.3	15.0
1,2-Dinitrobenzene	Ave	138212	144720		262	250	4.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/32 Calibration Date: 06/12/2020 00:33

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06110032.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.55	6.85
RDX	7.79	7.63	7.93
Picric acid	8.10	7.92	8.22
1,3,5-Trinitrobenzene	8.94	8.77	9.07
1,3-Dinitrobenzene	9.60	9.42	9.72
Nitrobenzene	9.97	9.80	10.10
Tetryl	10.28	10.11	10.41
Nitroglycerin	10.80	10.61	10.91
2,4,6-Trinitrotoluene	11.26	11.12	11.32
4-Amino-2,6-dinitrotoluene	11.43	11.28	11.48
2-Amino-4,6-dinitrotoluene	11.72	11.56	11.76
2,6-Dinitrotoluene	11.86	11.71	11.91
2,4-Dinitrotoluene	12.06	11.91	12.11
2-Nitrotoluene	12.90	12.69	12.99
4-Nitrotoluene	13.33	13.13	13.43
3-Nitrotoluene	13.93	13.71	14.01
PETN	15.04	14.82	15.12
1,2-Dinitrobenzene	8.76	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110032.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2020 00:33:37 ALS Bottle#: 7 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092324-032
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji Date: 12-Jun-2020 11:04:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.711	6.696	0.015	22386	0.2500	0.2604	M
7 RDX	1	7.791	7.776	0.015	27795	0.2500	0.2384	
8 2,4,6-Trinitrophenol	1	8.098	8.069	0.029	22053	0.2500	0.2590	
$ 9 1,2-Dinitrobenzene	1	8.764	8.743	0.021	36180	0.2500	0.2618	
10 1,3,5-Trinitrobenzene	1	8.944	8.916	0.028	60215	0.2505	0.2615	
11 1,3-Dinitrobenzene	1	9.598	9.569	0.029	80840	0.2505	0.2636	
12 Nitrobenzene	1	9.971	9.949	0.022	50599	0.2510	0.2525	
14 Tetryl	1	10.284	10.256	0.028	45461	0.2505	0.2568	
15 Nitroglycerin	2	10.798	10.762	0.036	182552	2.50	2.68	
16 2,4,6-Trinitrotoluene	1	11.264	11.222	0.042	54300	0.2510	0.2661	
17 4-Amino-2,6-dinitrotoluene	1	11.431	11.376	0.055	42813	0.2503	0.2465	
18 2-Amino-4,6-dinitrotoluene	1	11.724	11.662	0.062	52424	0.2510	0.2585	
19 2,6-Dinitrotoluene	1	11.864	11.809	0.055	41111	0.2510	0.2751	
20 2,4-Dinitrotoluene	1	12.064	12.009	0.055	81262	0.2510	0.2677	
21 o-Nitrotoluene	1	12.898	12.842	0.056	33821	0.2500	0.2504	
22 p-Nitrotoluene	1	13.331	13.276	0.055	29645	0.2505	0.2623	
23 m-Nitrotoluene	1	13.931	13.862	0.069	37310	0.2503	0.2609	
24 PETN	2	15.038	14.969	0.069	210862	2.50	2.68	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

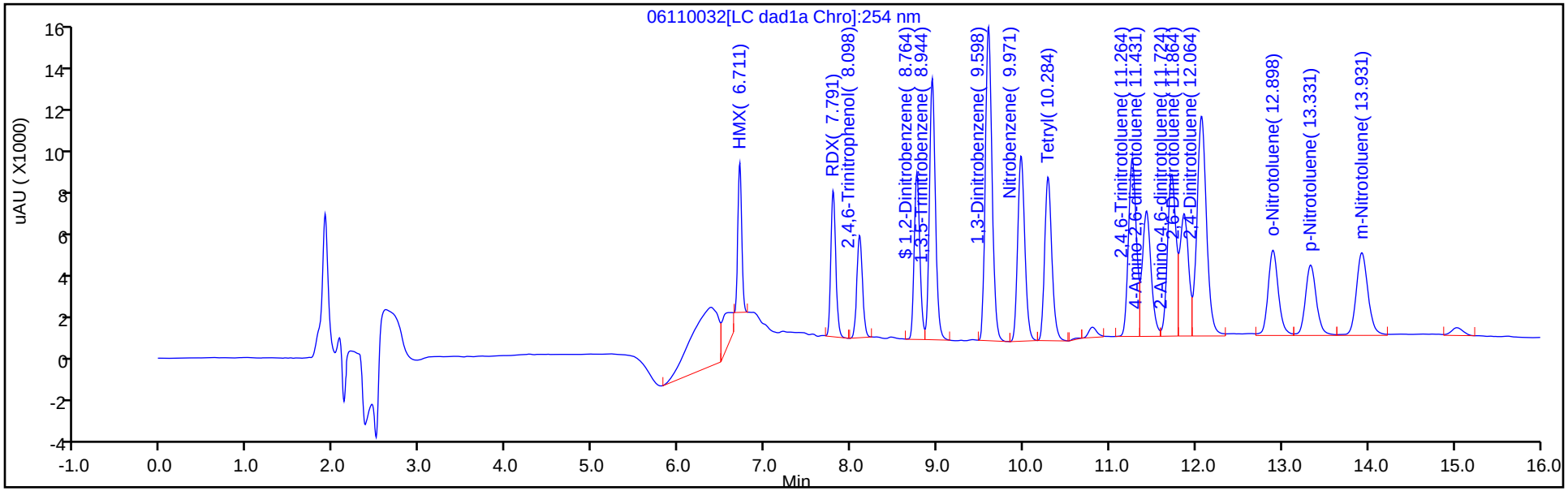
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 12-Jun-2020 12:39:47 Chrom Revision: 2.3 10-Jun-2020 22:46:48

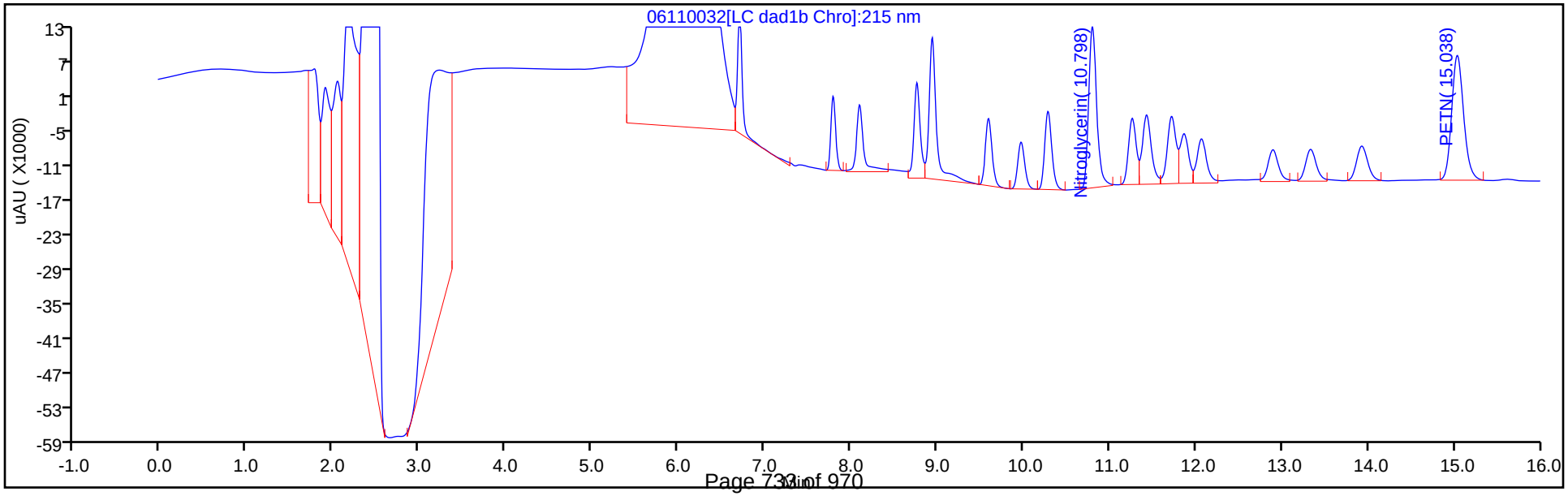
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110032.d				
Injection Date:	12-Jun-2020 00:33:37	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	32
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

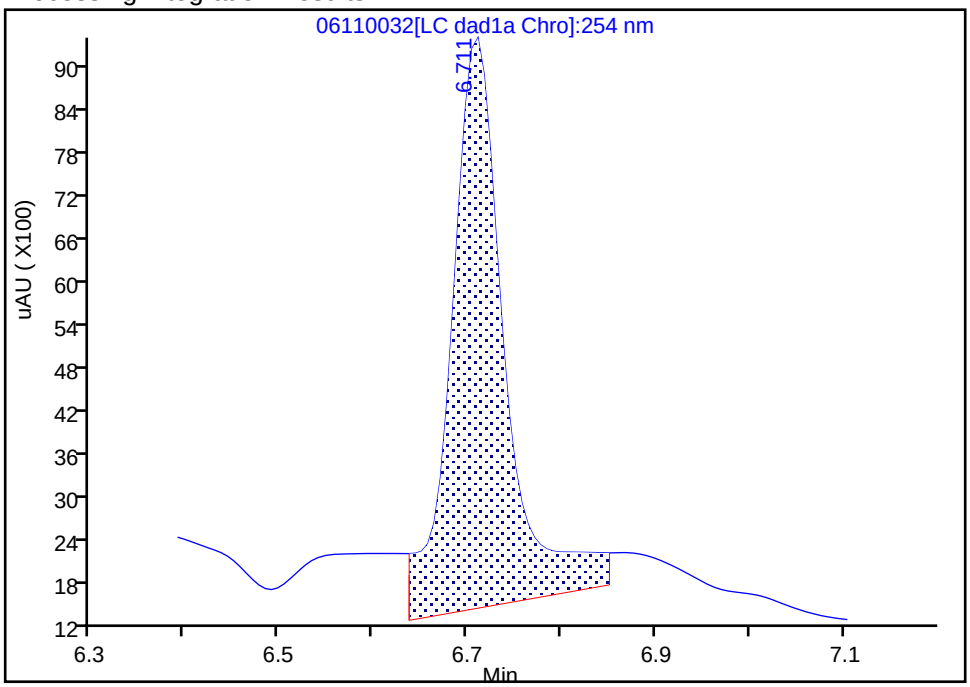
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110032.d				
Injection Date:	12-Jun-2020 00:33:37	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

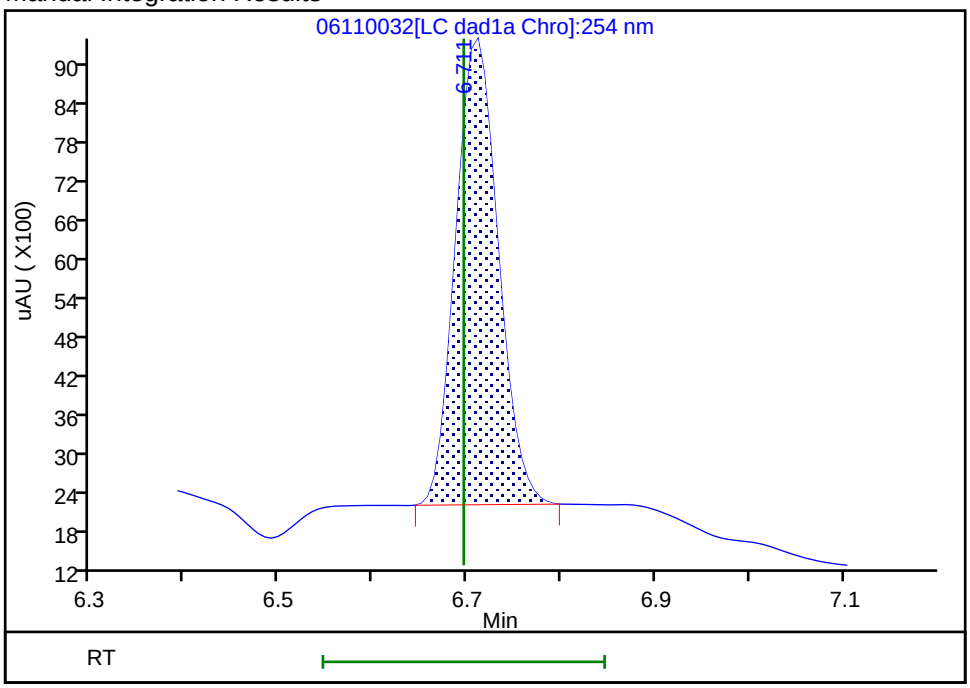
Processing Integration Results

RT: 6.71
Area: 31217
Amount: 0.363148
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 22386
Amount: 0.260417
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:04:08

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/33 Calibration Date: 06/12/2020 00:56

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06110033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	201283		231	250	-7.5	15.0
DNX	Ave	152928	151684		248	250	-0.8	15.0
MNX	Ave	158544	138125		254	292	-12.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/33 Calibration Date: 06/12/2020 00:56

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06110033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.39	7.26	7.56

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110033.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Jun-2020 00:56:36	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092324-033				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				
First Level Reviewer: zhangji		Date:	12-Jun-2020 11:16:35		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.619	6.627	-0.008	50371	0.2503	0.2315	M
5 DNX	1	6.945	6.954	-0.009	37959	0.2503	0.2482	M
6 MNX	1	7.385	7.407	-0.022	40298	0.2918	0.2542	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

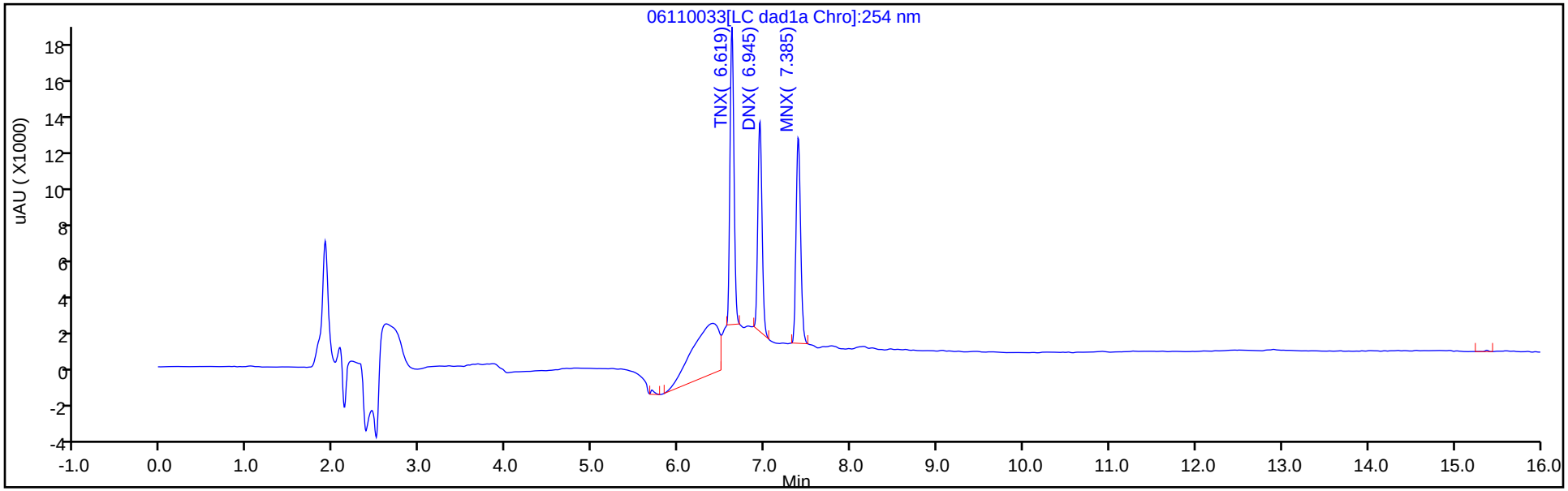
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 12-Jun-2020 12:39:47 Chrom Revision: 2.3 10-Jun-2020 22:46:48

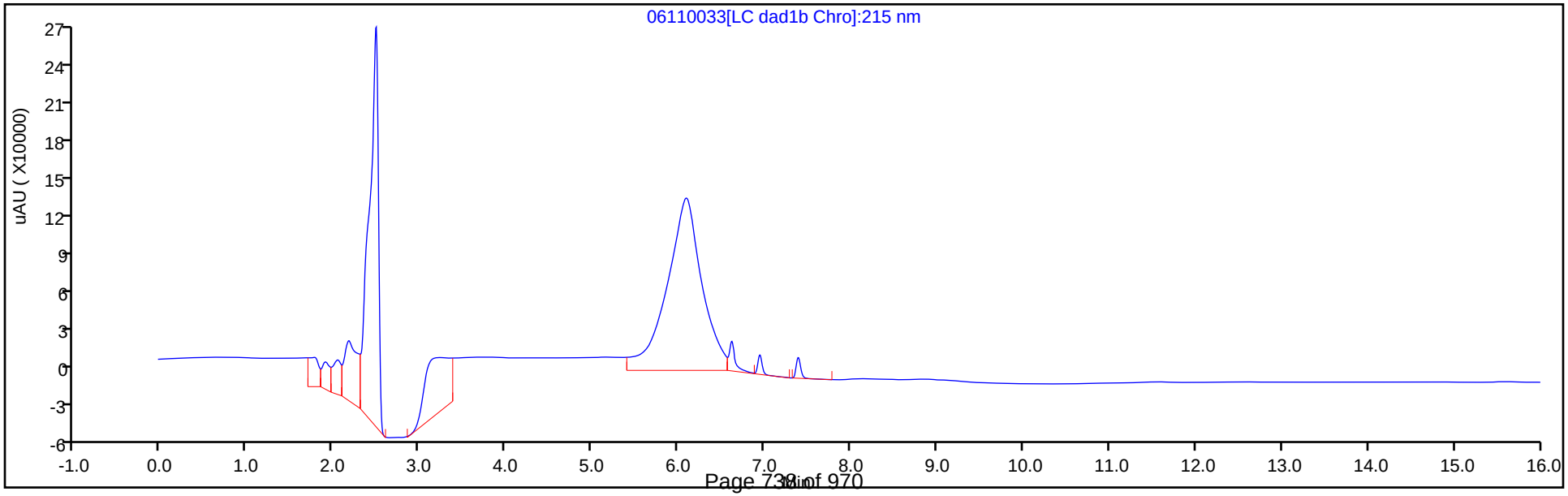
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d				
Injection Date:	12-Jun-2020 00:56:36	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	33
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

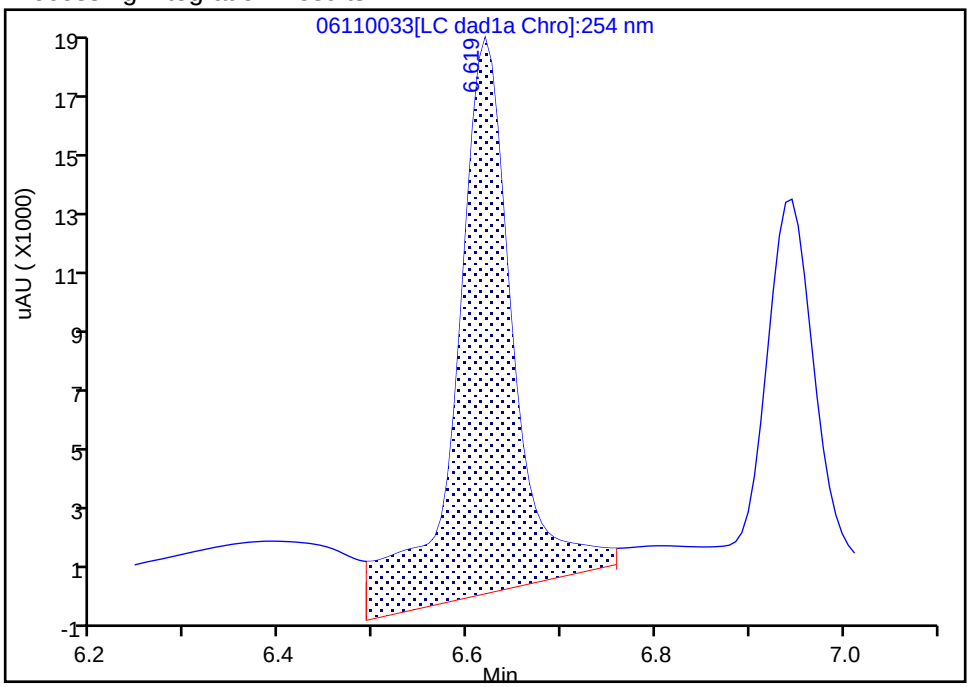
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d				
Injection Date:	12-Jun-2020 00:56:36	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

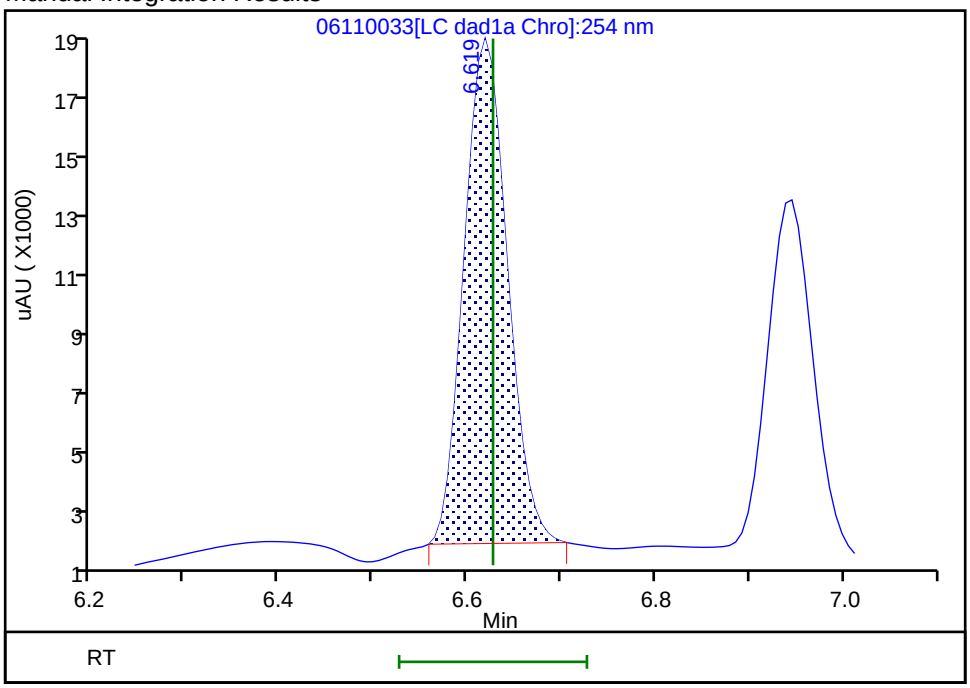
Processing Integration Results

RT: 6.62
Area: 73447
Amount: 0.337519
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 50371
Amount: 0.231475
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:16:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

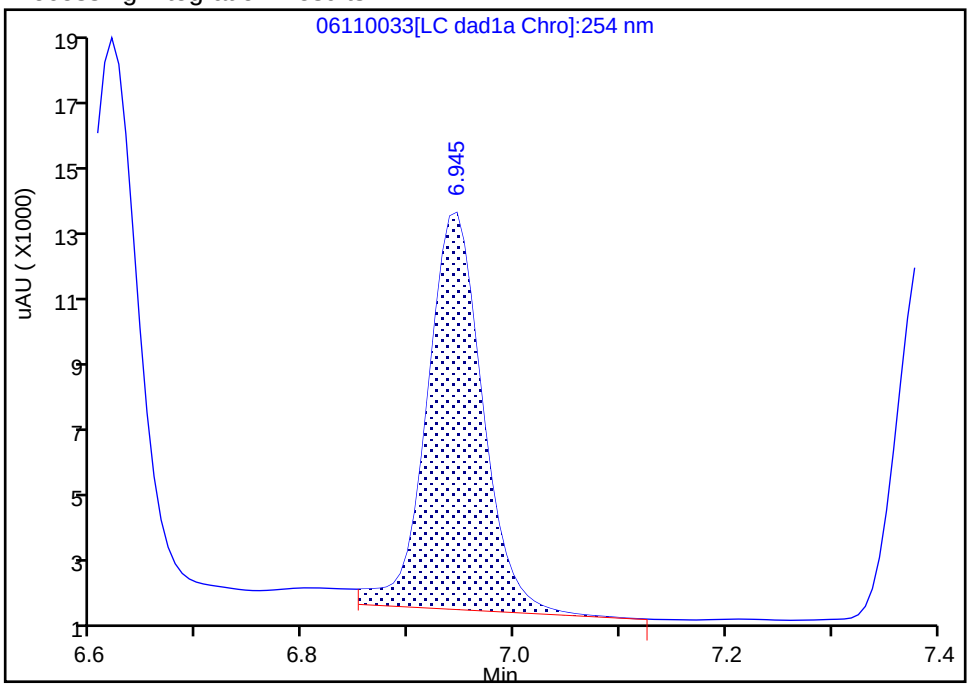
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d				
Injection Date:	12-Jun-2020 00:56:36	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

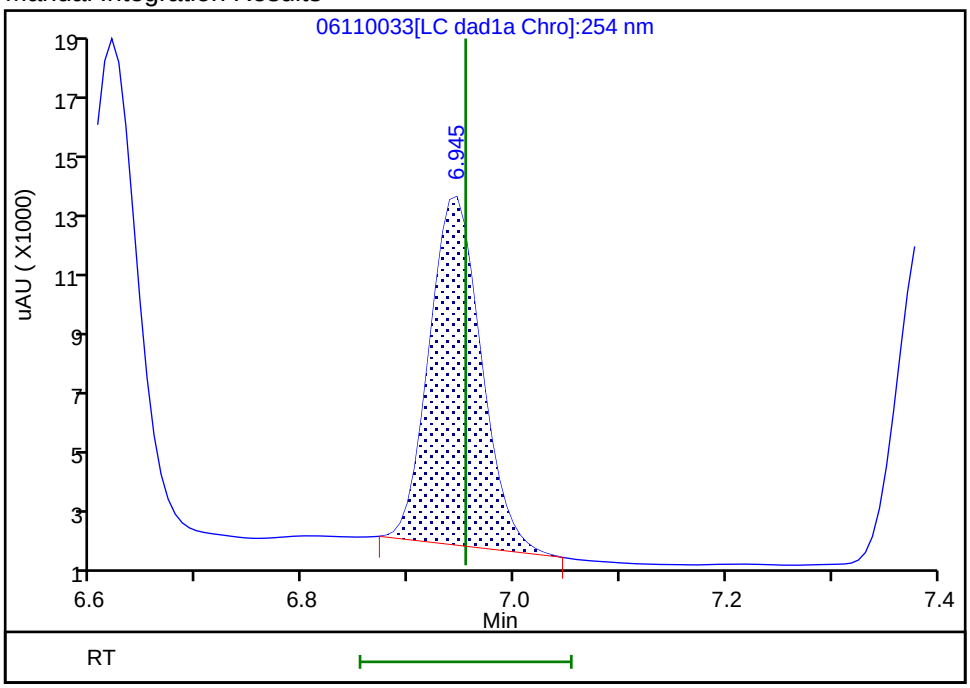
Processing Integration Results

RT: 6.95
Area: 41746
Amount: 0.272978
Amount Units: ug/mL



Manual Integration Results

RT: 6.95
Area: 37959
Amount: 0.248214
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:16:27

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

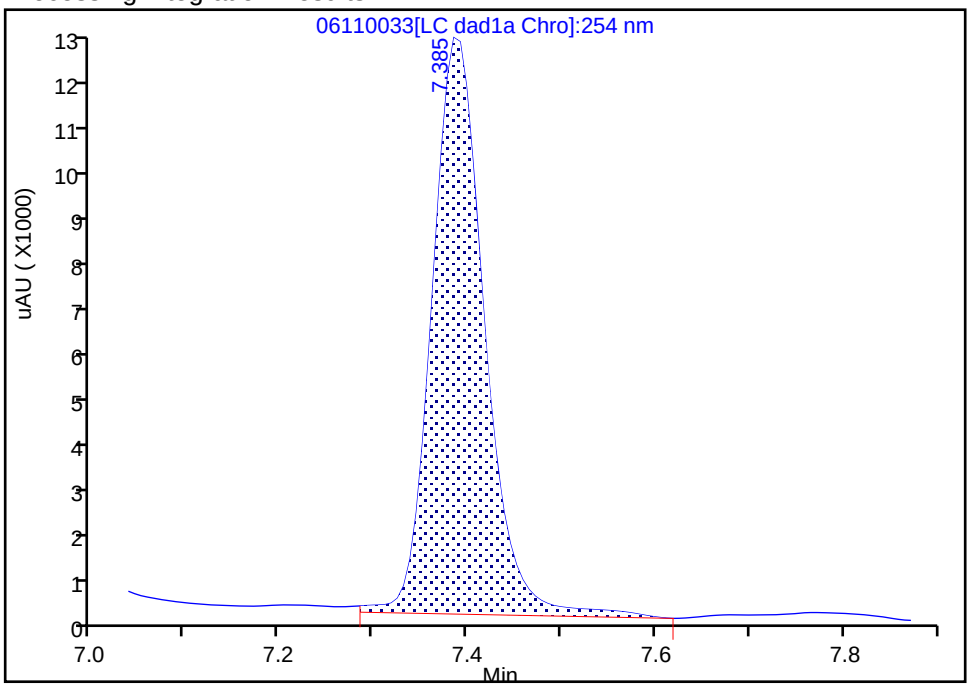
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d				
Injection Date:	12-Jun-2020 00:56:36	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

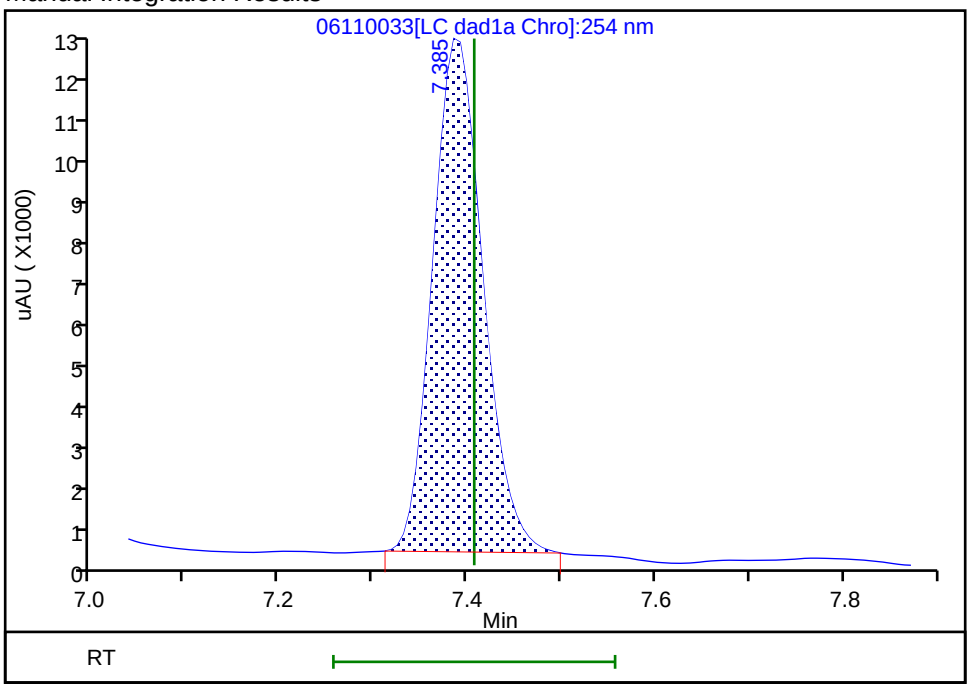
Processing Integration Results

RT: 7.39
Area: 43079
Amount: 0.271716
Amount Units: ug/mL



Manual Integration Results

RT: 7.39
Area: 40298
Amount: 0.254175
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:16:30
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/48 Calibration Date: 06/12/2020 06:41

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06110048.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90740		264	250	5.6	15.0
RDX	Ave	116613	112104		240	250	-3.9	15.0
Picric acid	Ave	85131	90588		266	250	6.4	15.0
1,3,5-Trinitrobenzene	Ave	230309	244958		266	251	6.4	15.0
1,3-Dinitrobenzene	Ave	306686	325940		266	251	6.3	15.0
Nitrobenzene	Ave	200403	198430		249	251	-1.0	15.0
Tetryl	Ave	177032	183234		259	251	3.5	15.0
Nitroglycerin	Ave	68133	73979		2710	2500	8.6	15.0
2,4,6-Trinitrotoluene	Ave	204031	219032		269	251	7.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		171125		247	250	-1.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	210179		260	251	3.6	15.0
2,6-Dinitrotoluene	Ave	149452	165335		278	251	10.6	15.0
2,4-Dinitrotoluene	Ave	303584	321665		266	251	6.0	15.0
2-Nitrotoluene	Ave	135051	127756		236	250	-5.4	15.0
4-Nitrotoluene	Ave	113005	111553		247	251	-1.3	15.0
3-Nitrotoluene	Ave	143029	143417		251	250	0.3	15.0
PETN	Ave	78605	84275		2680	2500	7.2	15.0
1,2-Dinitrobenzene	Ave	138212	146900		266	250	6.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/48 Calibration Date: 06/12/2020 06:41

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06110048.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.55	6.85
RDX	7.80	7.63	7.93
Picric acid	8.11	7.92	8.22
1,3,5-Trinitrobenzene	8.96	8.77	9.07
1,3-Dinitrobenzene	9.61	9.42	9.72
Nitrobenzene	9.99	9.80	10.10
Tetryl	10.30	10.11	10.41
Nitroglycerin	10.82	10.61	10.91
2,4,6-Trinitrotoluene	11.28	11.12	11.32
4-Amino-2,6-dinitrotoluene	11.45	11.28	11.48
2-Amino-4,6-dinitrotoluene	11.74	11.56	11.76
2,6-Dinitrotoluene	11.88	11.71	11.91
2,4-Dinitrotoluene	12.08	11.91	12.11
2-Nitrotoluene	12.91	12.69	12.99
4-Nitrotoluene	13.35	13.13	13.43
3-Nitrotoluene	13.95	13.71	14.01
PETN	15.06	14.82	15.12
1,2-Dinitrobenzene	8.78	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110048.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2020 06:41:46 ALS Bottle#: 7 Worklist Smp#: 48
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092324-048
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:46 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji Date: 12-Jun-2020 11:32:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.716	6.696	0.020	22685	0.2500	0.2639	
7 RDX	1	7.802	7.776	0.026	28026	0.2500	0.2403	
8 2,4,6-Trinitrophenol	1	8.109	8.069	0.040	22647	0.2500	0.2660	
$ 9 1,2-Dinitrobenzene	1	8.776	8.743	0.033	36725	0.2500	0.2657	
10 1,3,5-Trinitrobenzene	1	8.956	8.916	0.040	61362	0.2505	0.2664	
11 1,3-Dinitrobenzene	1	9.609	9.569	0.040	81648	0.2505	0.2662	
12 Nitrobenzene	1	9.989	9.949	0.040	49806	0.2510	0.2485	
14 Tetryl	1	10.302	10.256	0.046	45900	0.2505	0.2593	
15 Nitroglycerin	2	10.815	10.762	0.053	184947	2.50	2.71	
16 2,4,6-Trinitrotoluene	1	11.282	11.222	0.060	54977	0.2510	0.2695	
17 4-Amino-2,6-dinitrotoluene	1	11.449	11.376	0.073	42824	0.2503	0.2466	
18 2-Amino-4,6-dinitrotoluene	1	11.742	11.662	0.080	52755	0.2510	0.2601	a
19 2,6-Dinitrotoluene	1	11.882	11.809	0.073	41499	0.2510	0.2777	a
20 2,4-Dinitrotoluene	1	12.082	12.009	0.073	80738	0.2510	0.2659	
21 o-Nitrotoluene	1	12.909	12.842	0.067	31939	0.2500	0.2365	
22 p-Nitrotoluene	1	13.349	13.276	0.073	27944	0.2505	0.2473	
23 m-Nitrotoluene	1	13.949	13.862	0.087	35890	0.2503	0.2509	
24 PETN	2	15.055	14.969	0.086	210688	2.50	2.68	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

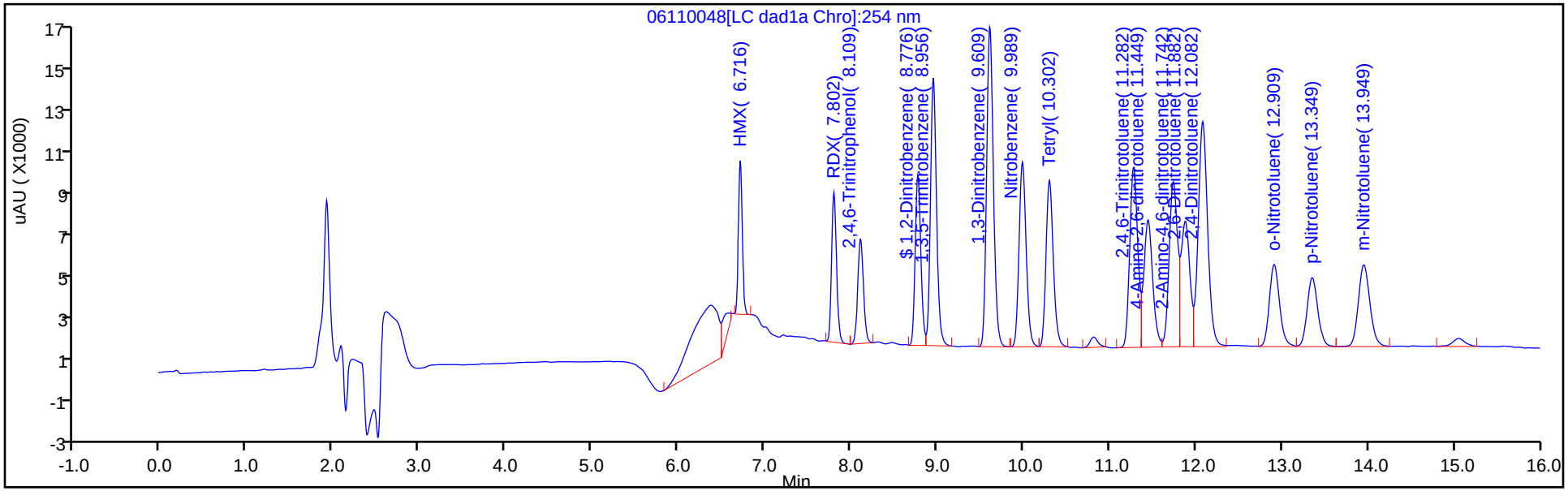
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 12-Jun-2020 12:39:46 Chrom Revision: 2.3 10-Jun-2020 22:46:48

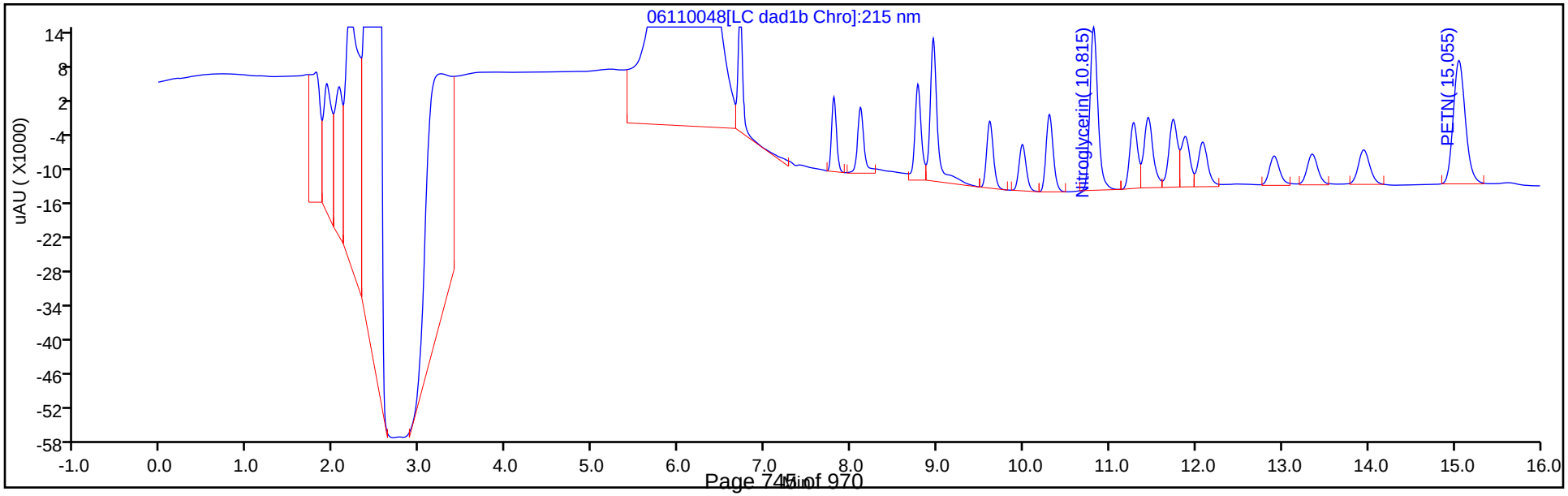
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110048.d				
Injection Date:	12-Jun-2020 06:41:46	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	48
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

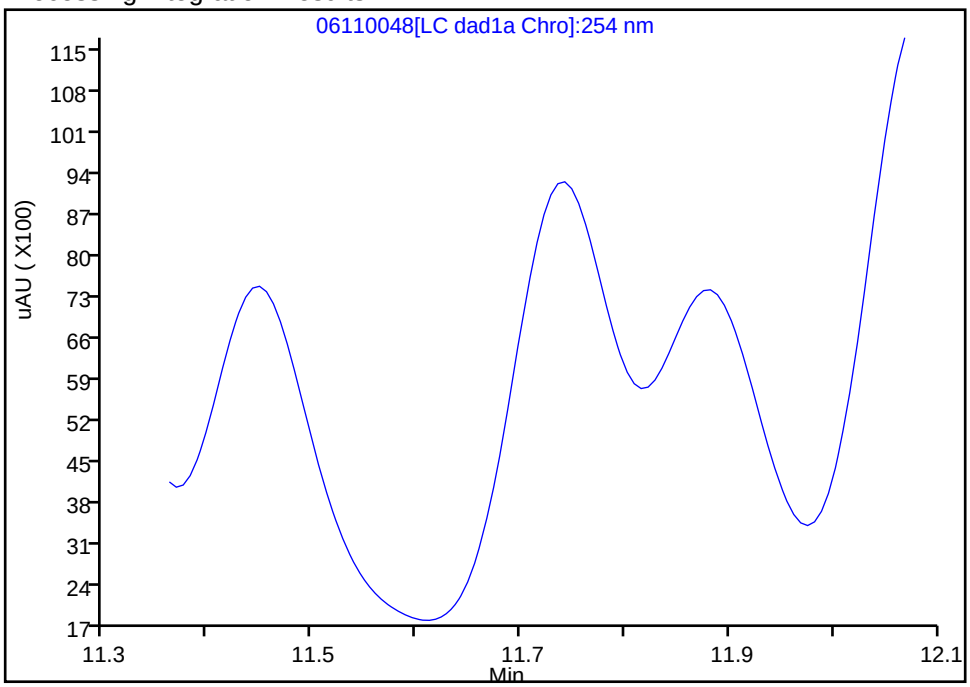
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110048.d				
Injection Date:	12-Jun-2020 06:41:46	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	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

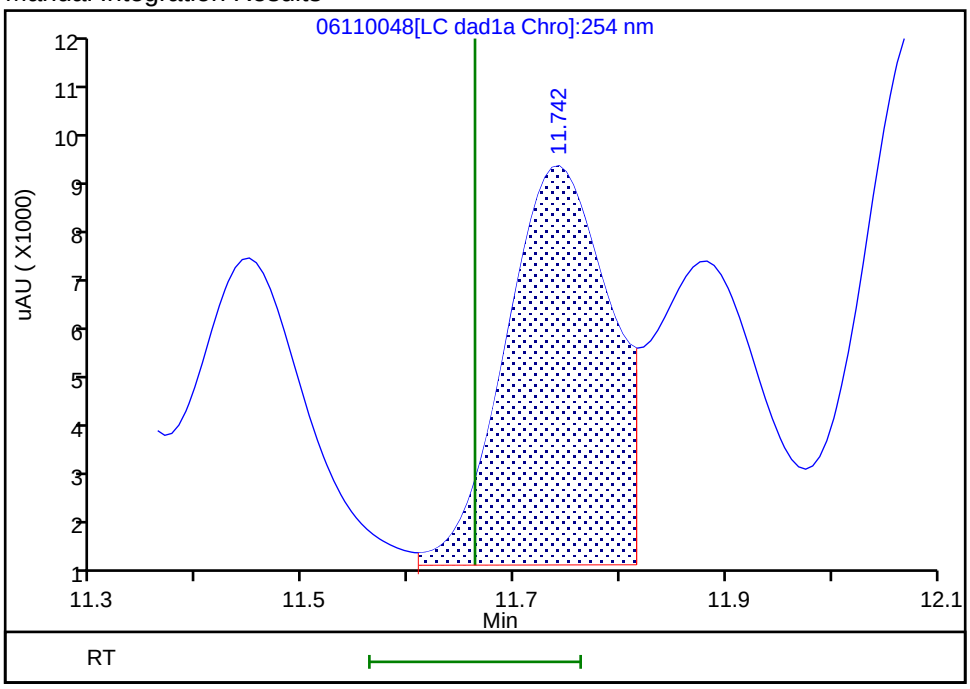
Not Detected
Expected RT: 11.66

Processing Integration Results



Manual Integration Results

RT: 11.74
Area: 52755
Amount: 0.260112
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:32:03
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

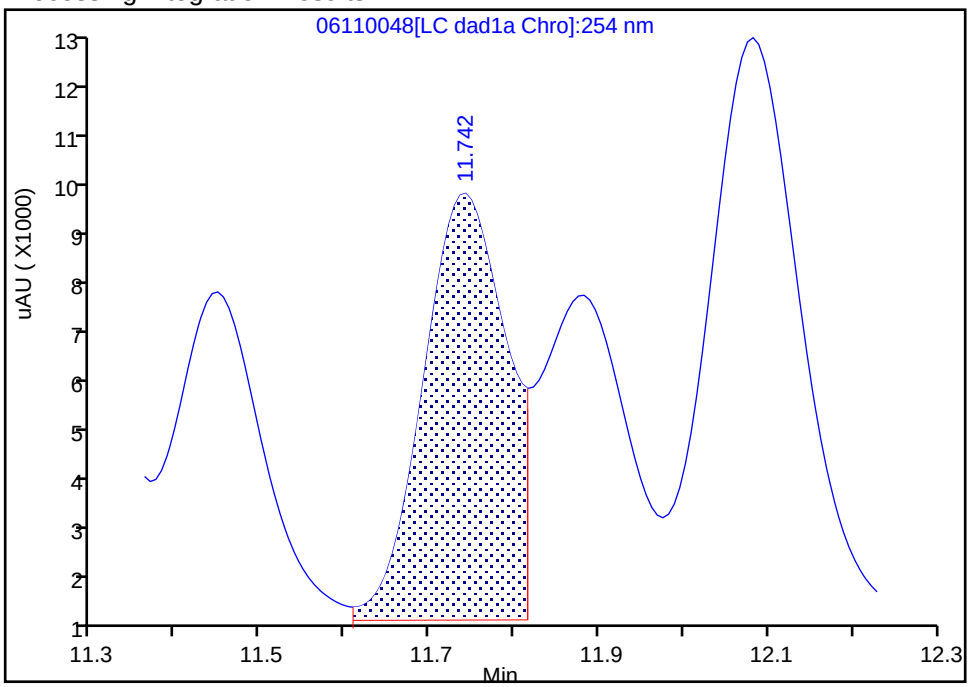
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110048.d				
Injection Date:	12-Jun-2020 06:41:46	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

19 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

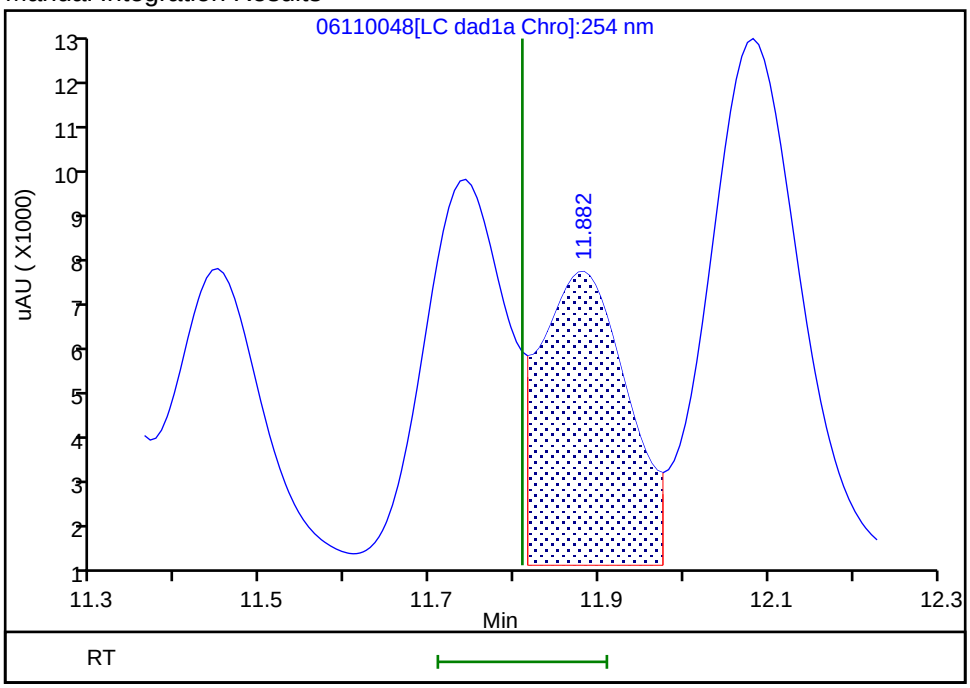
Processing Integration Results

RT: 11.74
Area: 52755
Amount: 0.352989
Amount Units: ug/mL



Manual Integration Results

RT: 11.88
Area: 41499
Amount: 0.277674
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:32:06
Audit Action: Assigned Compound ID Audit Reason:

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/49 Calibration Date: 06/12/2020 07:04

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06110049.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	199145		229	250	-8.5	15.0
DNX	Ave	152928	148324		243	250	-3.0	15.0
MNX	Ave	158544	138344		255	292	-12.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498360/49 Calibration Date: 06/12/2020 07:04

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06110049.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.40	7.26	7.56

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110049.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Jun-2020 07:04:53	ALS Bottle#:	9	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092324-049				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:46	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				

First Level Reviewer: zhangji Date: 12-Jun-2020 11:32:37

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.622	6.627	-0.005	49836	0.2503	0.2290	M
5 DNX	1	6.949	6.954	-0.005	37118	0.2503	0.2427	M
6 MNX	1	7.395	7.407	-0.012	40362	0.2918	0.2546	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

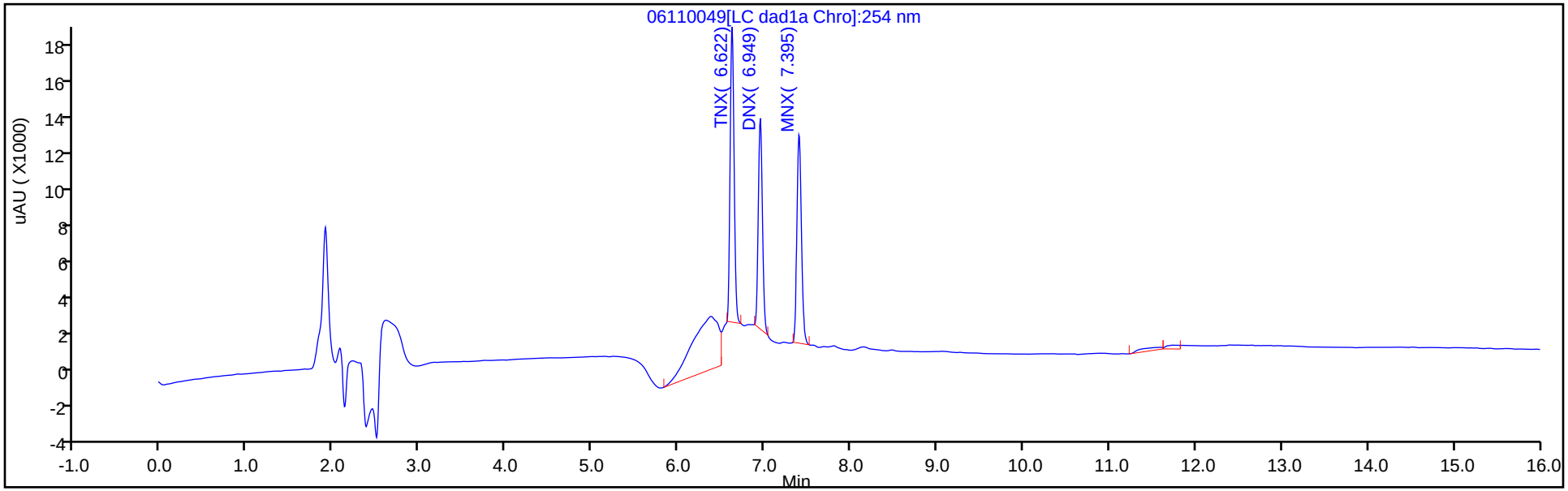
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 12-Jun-2020 12:39:46 Chrom Revision: 2.3 10-Jun-2020 22:46:48

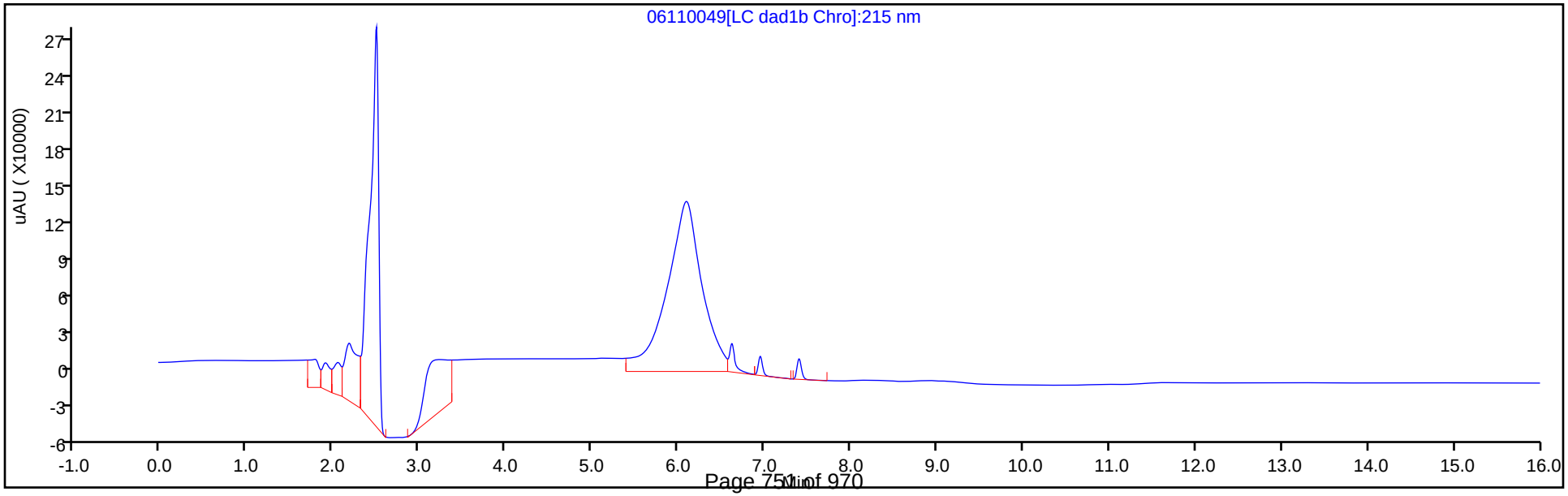
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d				
Injection Date:	12-Jun-2020 07:04:53	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	49
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

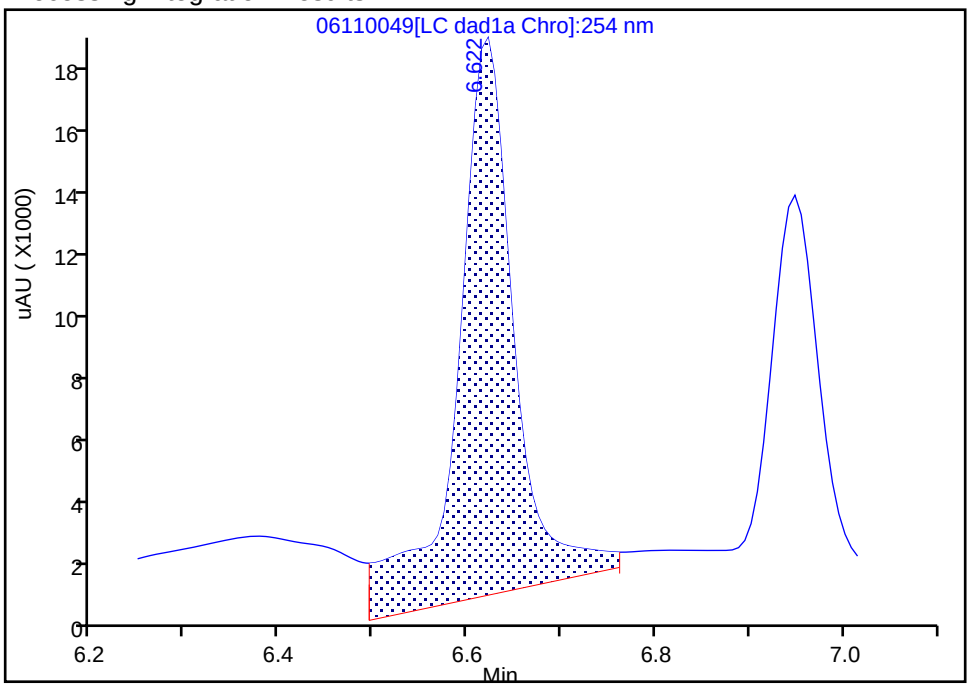
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d				
Injection Date:	12-Jun-2020 07:04:53	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

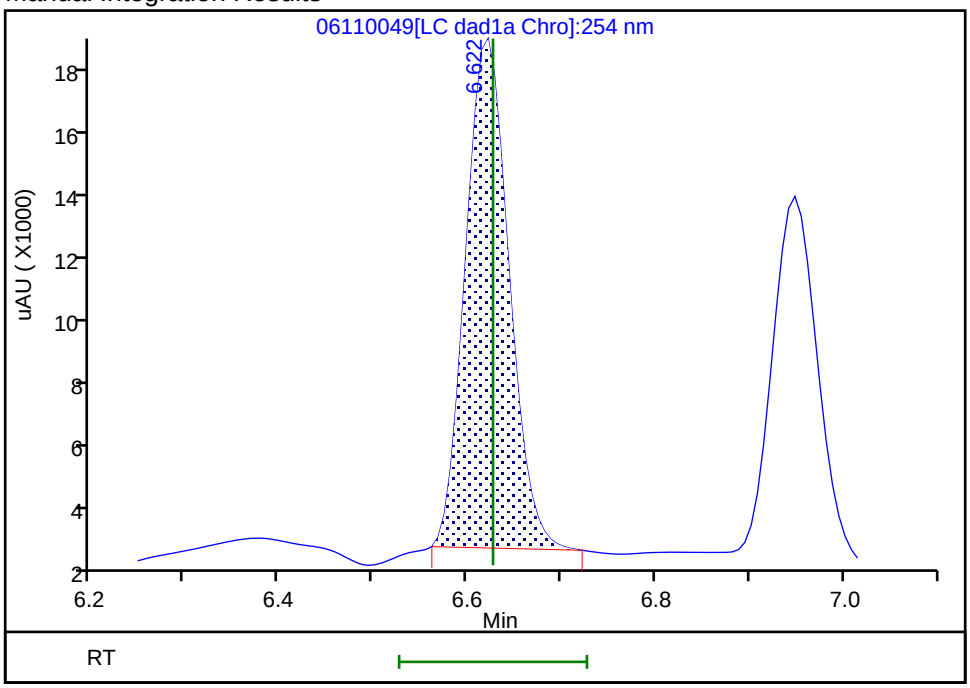
Processing Integration Results

RT: 6.62
Area: 71745
Amount: 0.329697
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 49836
Amount: 0.229017
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:32:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

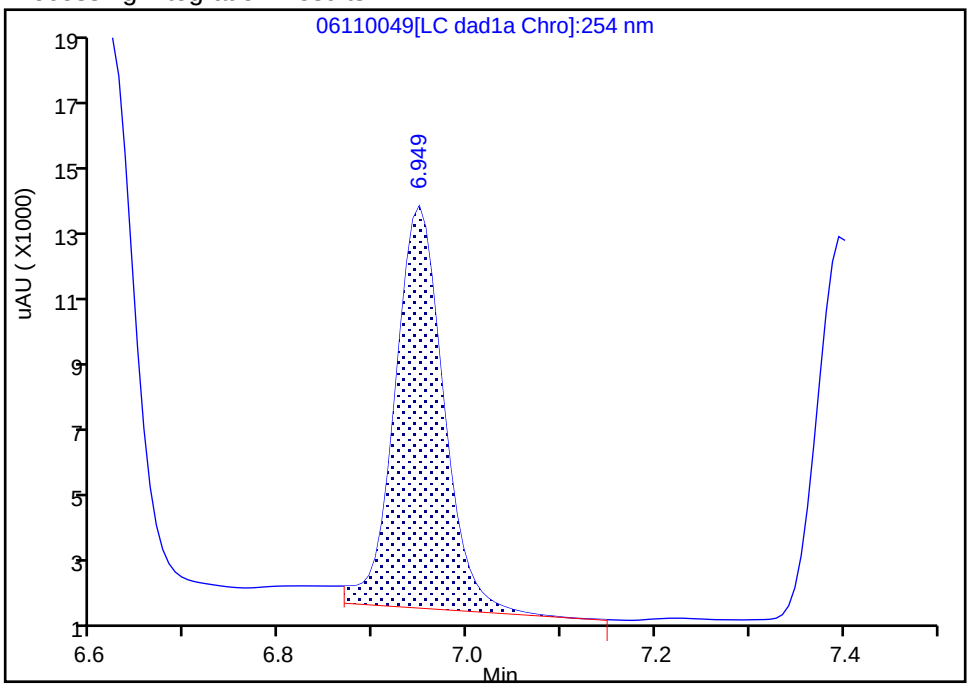
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d				
Injection Date:	12-Jun-2020 07:04:53	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

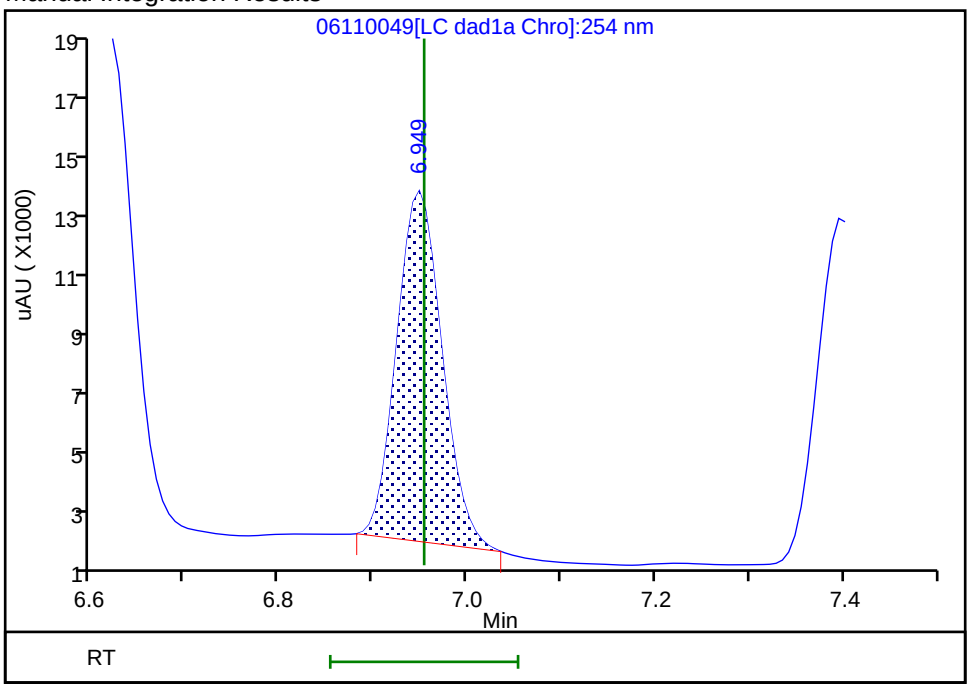
Processing Integration Results

RT: 6.95
Area: 41361
Amount: 0.270460
Amount Units: ug/mL



Manual Integration Results

RT: 6.95
Area: 37118
Amount: 0.242715
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:32:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

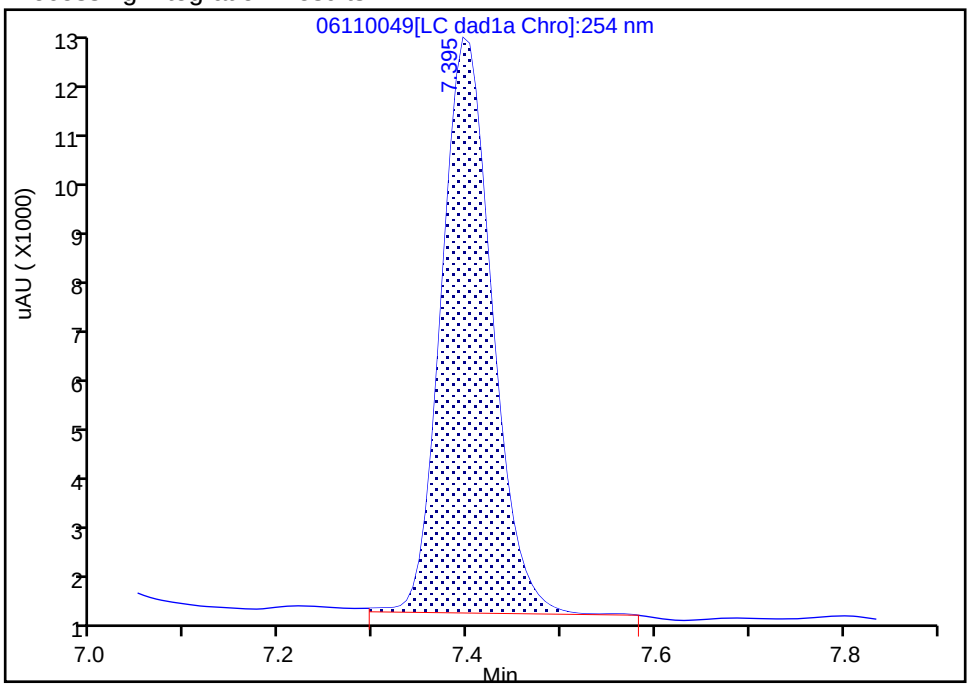
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d				
Injection Date:	12-Jun-2020 07:04:53	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

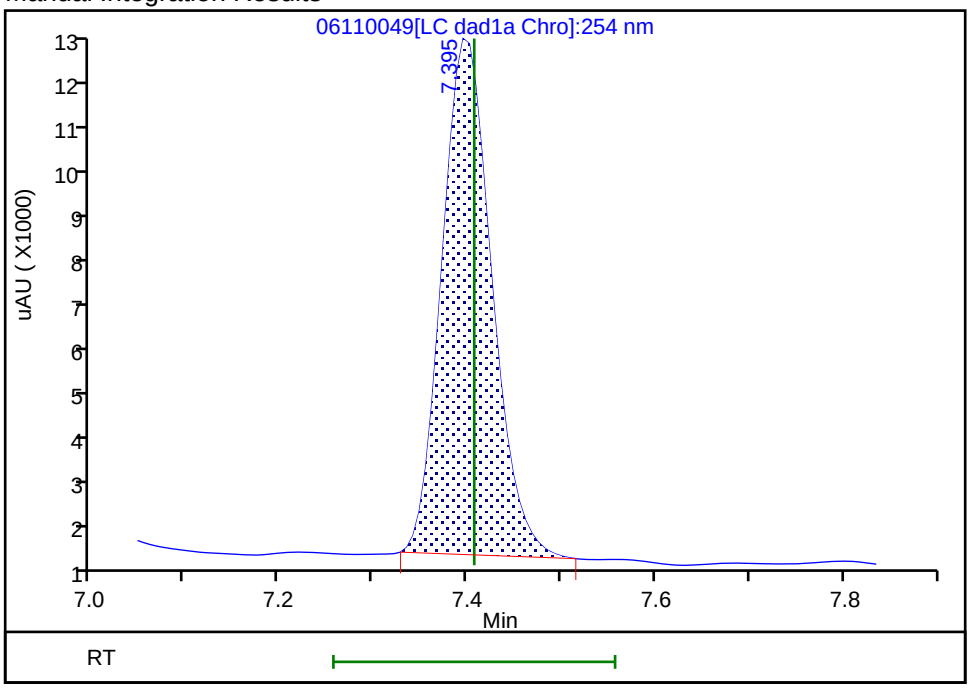
Processing Integration Results

RT: 7.40
Area: 41399
Amount: 0.261120
Amount Units: ug/mL



Manual Integration Results

RT: 7.40
Area: 40362
Amount: 0.254579
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:32:31
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/7 Calibration Date: 06/12/2020 13:26

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90656		264	250	5.5	15.0
RDX	Ave	116613	112424		241	250	-3.6	15.0
Picric acid	Ave	85131	85172		250	250	0.0	15.0
1,3,5-Trinitrobenzene	Ave	230309	241501		263	251	4.9	15.0
1,3-Dinitrobenzene	Ave	306686	323537		264	251	5.5	15.0
Nitrobenzene	Ave	200403	209028		262	251	4.3	15.0
Tetryl	Ave	177032	181054		256	251	2.3	15.0
Nitroglycerin	Ave	68133	73750		2710	2500	8.2	15.0
2,4,6-Trinitrotoluene	Ave	204031	219518		270	251	7.6	15.0
4-Amino-2,6-dinitrotoluene	Lin2		171105		247	250	-1.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	213247		264	251	5.1	15.0
2,6-Dinitrotoluene	Ave	149452	168598		283	251	12.8	15.0
2,4-Dinitrotoluene	Ave	303584	331761		274	251	9.3	15.0
2-Nitrotoluene	Ave	135051	144592		268	250	7.1	15.0
4-Nitrotoluene	Ave	113005	123701		274	251	9.5	15.0
3-Nitrotoluene	Ave	143029	146641		257	250	2.5	15.0
PETN	Ave	78605	85964		2730	2500	9.4	15.0
1,2-Dinitrobenzene	Ave	138212	145316		263	250	5.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/7 Calibration Date: 06/12/2020 13:26

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.70	6.55	6.85
RDX	7.80	7.65	7.95
Picric acid	8.11	7.96	8.26
1,3,5-Trinitrobenzene	8.96	8.81	9.11
1,3-Dinitrobenzene	9.62	9.47	9.77
Nitrobenzene	10.00	9.85	10.15
Tetryl	10.33	10.18	10.48
Nitroglycerin	10.85	10.70	11.00
2,4,6-Trinitrotoluene	11.31	11.21	11.41
4-Amino-2,6-dinitrotoluene	11.48	11.38	11.58
2-Amino-4,6-dinitrotoluene	11.78	11.68	11.88
2,6-Dinitrotoluene	11.92	11.82	12.02
2,4-Dinitrotoluene	12.12	12.02	12.22
2-Nitrotoluene	12.98	12.83	13.13
4-Nitrotoluene	13.42	13.27	13.57
3-Nitrotoluene	14.03	13.88	14.18
PETN	15.16	15.01	15.31
1,2-Dinitrobenzene	8.78	8.63	8.93

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120007.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2020 13:26:15 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092367-007
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:11:21 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 12-Jun-2020 13:52:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.704	6.704	0.000	22664	0.2500	0.2637	M
7 RDX	1	7.797	7.797	0.000	28106	0.2500	0.2410	
8 2,4,6-Trinitrophenol	1	8.111	8.111	0.000	21293	0.2500	0.2501	
$ 9 1,2-Dinitrobenzene	1	8.777	8.777	0.000	36329	0.2500	0.2628	
10 1,3,5-Trinitrobenzene	1	8.957	8.957	0.000	60496	0.2505	0.2627	
11 1,3-Dinitrobenzene	1	9.617	9.617	0.000	81046	0.2505	0.2643	
12 Nitrobenzene	1	10.004	10.004	0.000	52466	0.2510	0.2618	
14 Tetryl	1	10.330	10.330	0.000	45354	0.2505	0.2562	
15 Nitroglycerin	2	10.850	10.850	0.000	184376	2.50	2.71	
16 2,4,6-Trinitrotoluene	1	11.310	11.310	0.000	55099	0.2510	0.2701	
17 4-Amino-2,6-dinitrotoluene	1	11.484	11.484	0.000	42819	0.2503	0.2466	
18 2-Amino-4,6-dinitrotoluene	1	11.784	11.784	0.000	53525	0.2510	0.2639	
19 2,6-Dinitrotoluene	1	11.924	11.924	0.000	42318	0.2510	0.2832	
20 2,4-Dinitrotoluene	1	12.124	12.124	0.000	83272	0.2510	0.2743	
21 o-Nitrotoluene	1	12.977	12.977	0.000	36148	0.2500	0.2677	
22 p-Nitrotoluene	1	13.424	13.424	0.000	30987	0.2505	0.2742	
23 m-Nitrotoluene	1	14.030	14.030	0.000	36697	0.2503	0.2566	
24 PETN	2	15.164	15.164	0.000	214910	2.50	2.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

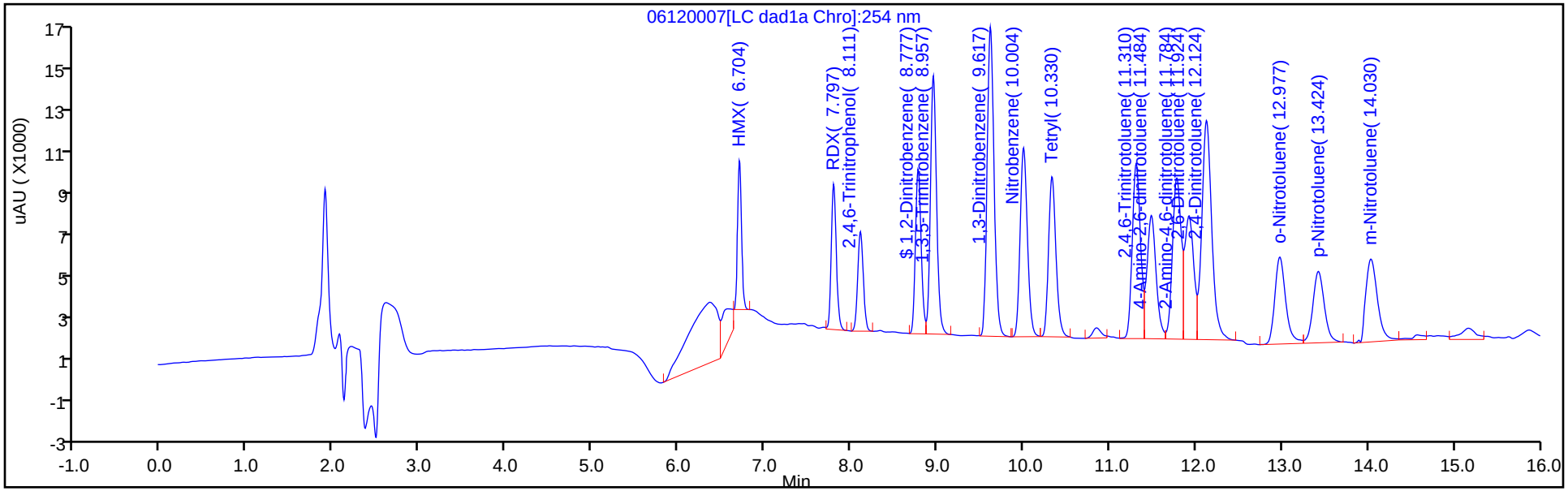
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 16-Jun-2020 18:11:21 Chrom Revision: 2.3 10-Jun-2020 22:46:48

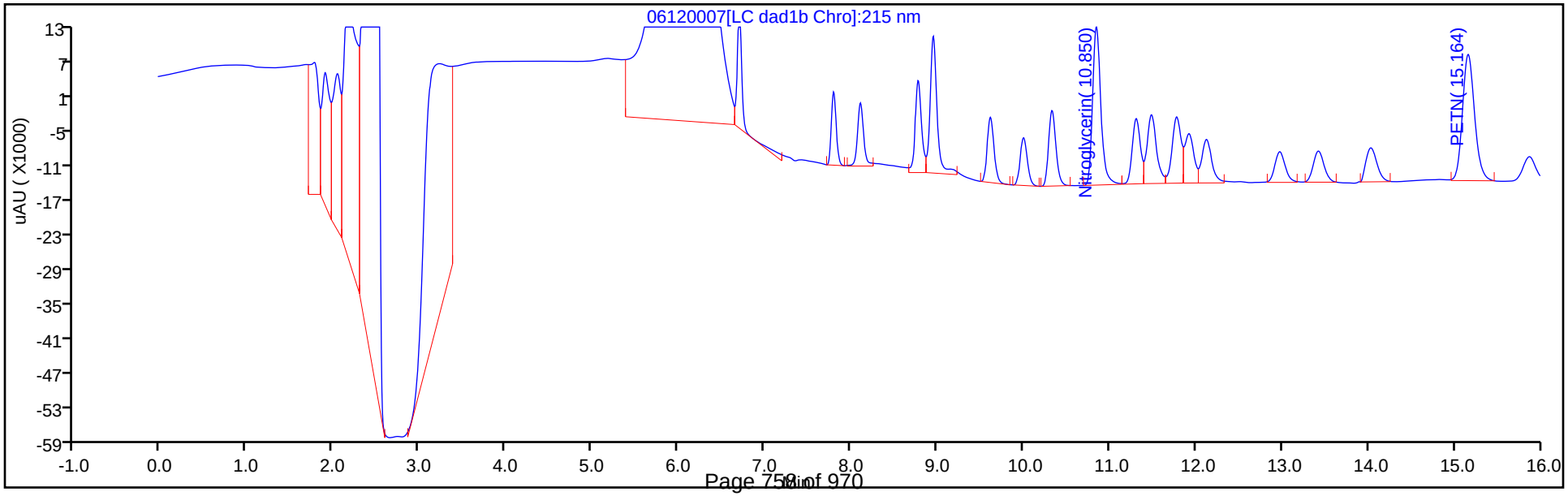
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120007.d				
Injection Date:	12-Jun-2020 13:26:15	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

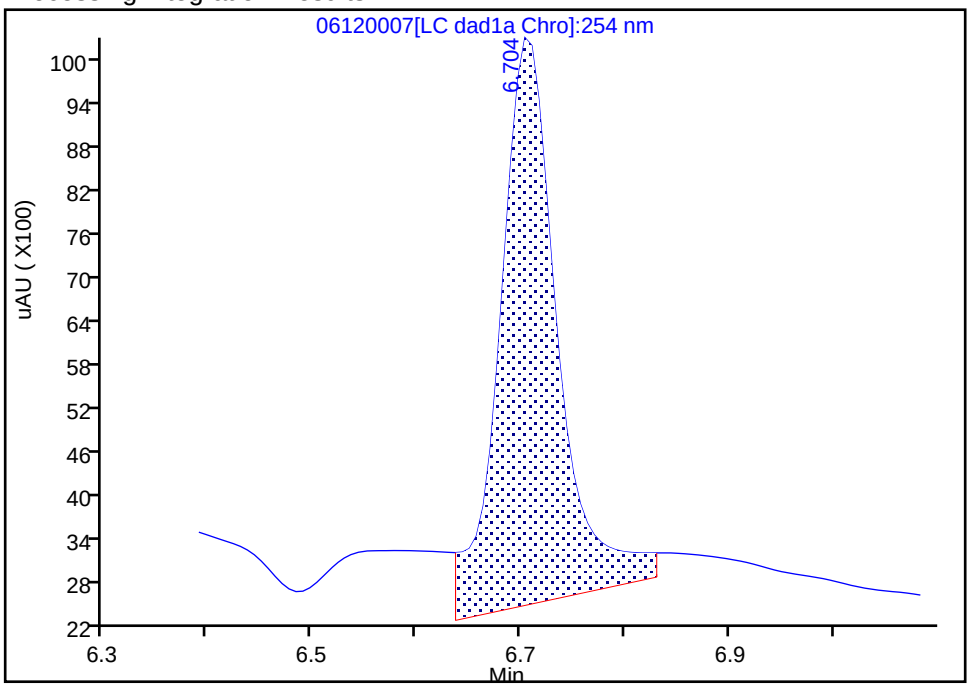
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120007.d				
Injection Date:	12-Jun-2020 13:26:15	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

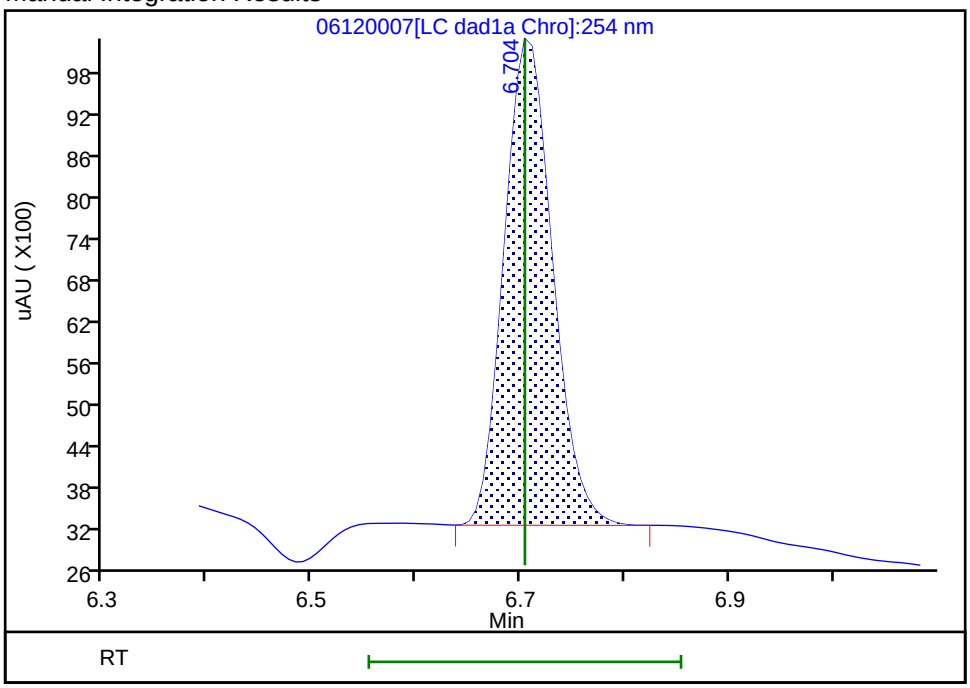
Processing Integration Results

RT: 6.70
Area: 29931
Amount: 0.348188
Amount Units: ug/mL



Manual Integration Results

RT: 6.70
Area: 22664
Amount: 0.263651
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 13:52:30
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/9 Calibration Date: 06/12/2020 14:12

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120009.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	205778		237	250	-5.4	15.0
DNX	Ave	152928	153646		251	250	0.5	15.0
MNX	Ave	158544	142958		263	292	-9.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/9 Calibration Date: 06/12/2020 14:12

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.95	6.85	7.05
MNX	7.39	7.24	7.54

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120009.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Jun-2020 14:12:25	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092367-009				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:11:22	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 12-Jun-2020 14:39:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.621	6.621	0.000	51496	0.2503	0.2366	M
5 DNX	1	6.947	6.947	0.000	38450	0.2503	0.2514	M
6 MNX	1	7.394	7.394	0.000	41708	0.2918	0.2631	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

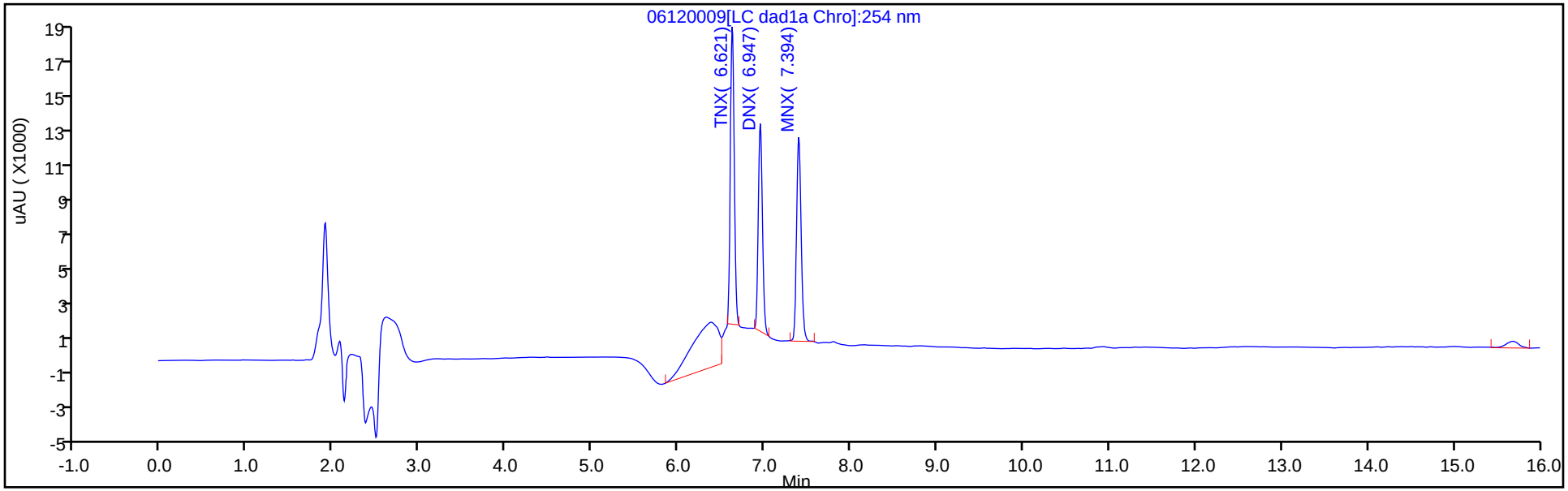
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 16-Jun-2020 18:11:22 Chrom Revision: 2.3 10-Jun-2020 22:46:48

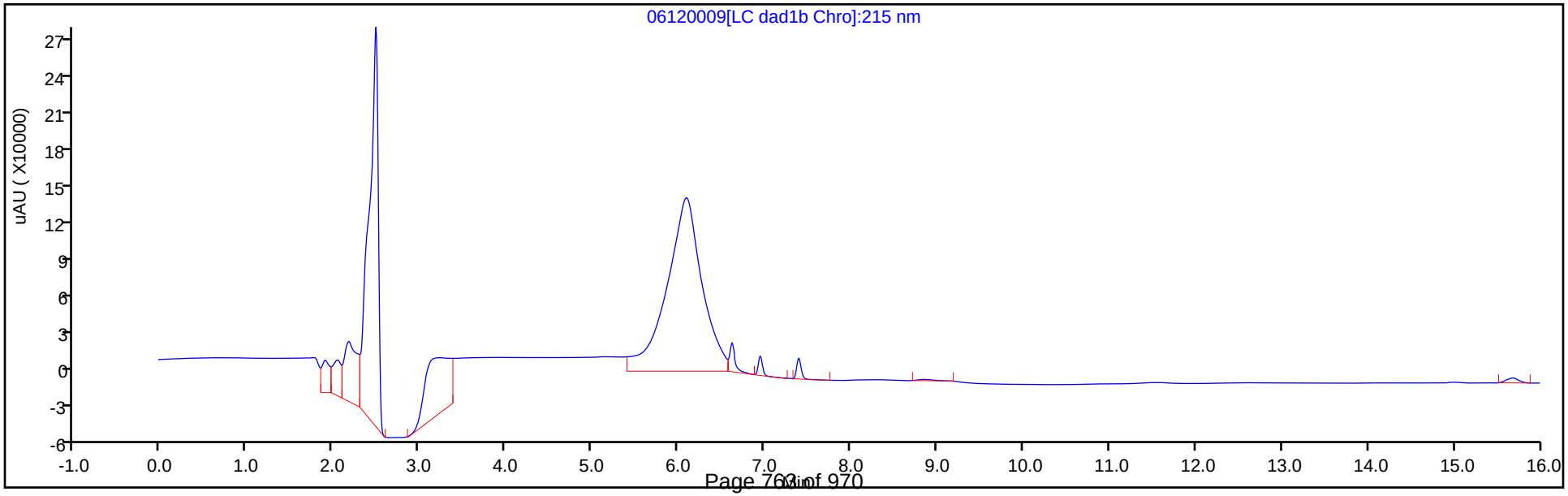
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120009.d				
Injection Date:	12-Jun-2020 14:12:25	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

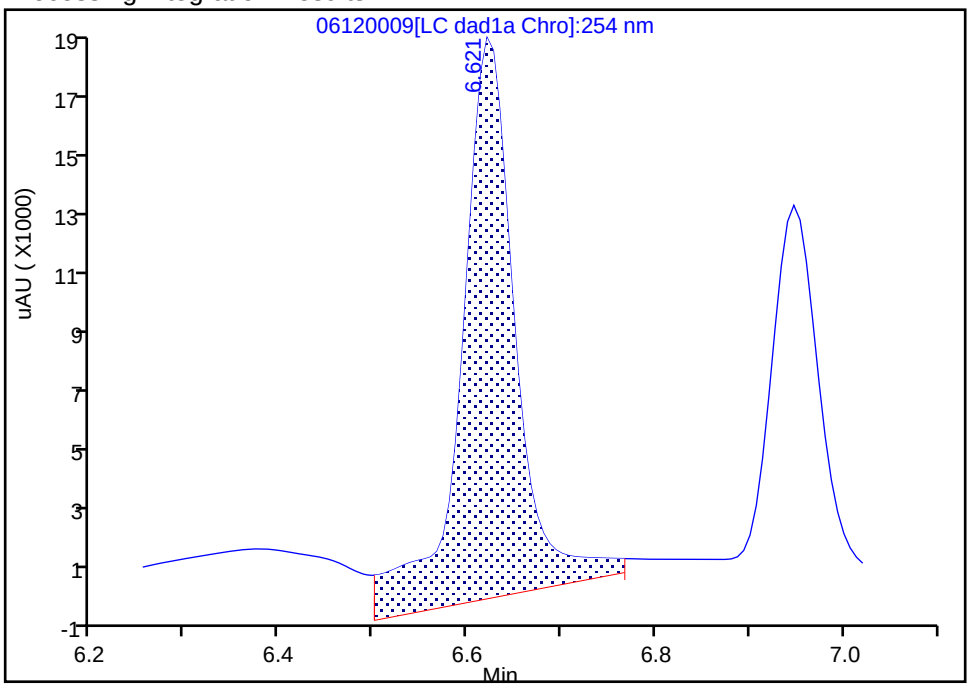
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120009.d				
Injection Date:	12-Jun-2020 14:12:25	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

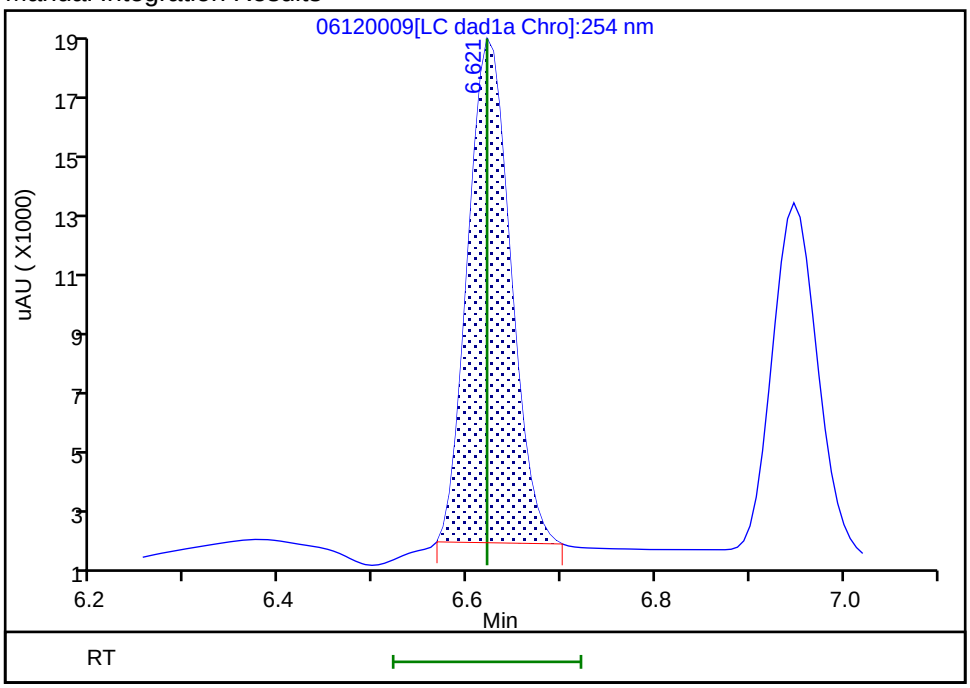
Processing Integration Results

RT: 6.62
Area: 71547
Amount: 0.328787
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 51496
Amount: 0.236645
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 14:39:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

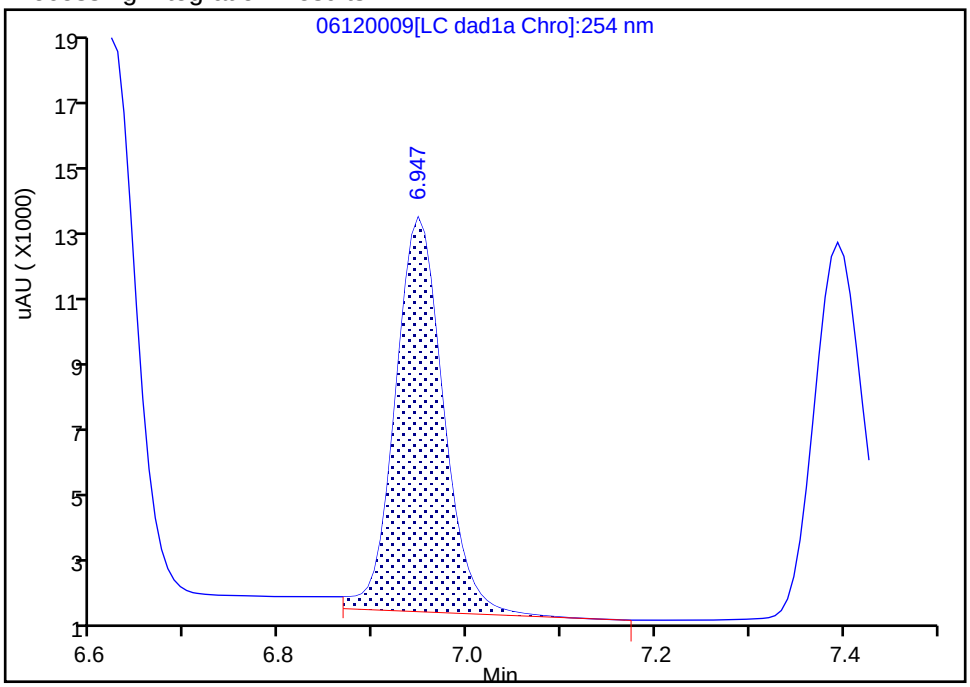
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120009.d				
Injection Date:	12-Jun-2020 14:12:25	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

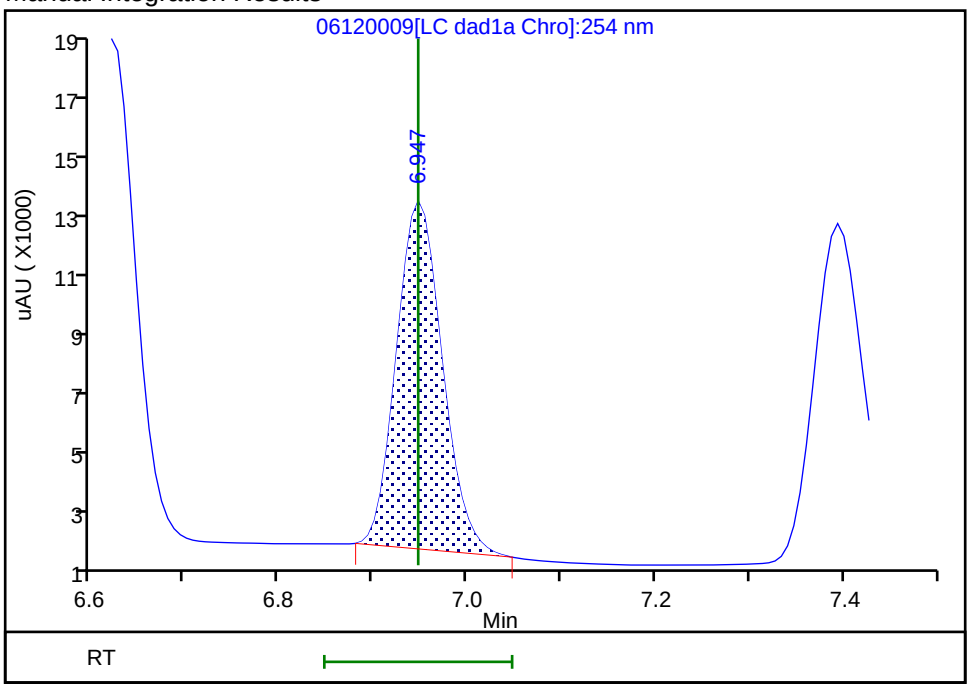
Processing Integration Results

RT: 6.95
Area: 41425
Amount: 0.270879
Amount Units: ug/mL



Manual Integration Results

RT: 6.95
Area: 38450
Amount: 0.251425
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 14:39:41

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/19 Calibration Date: 06/12/2020 18:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90768		264	250	5.6	15.0
RDX	Ave	116613	112836		242	250	-3.2	15.0
Picric acid	Ave	85131	86036		253	250	1.1	15.0
1,3,5-Trinitrobenzene	Ave	230309	242431		264	251	5.3	15.0
1,3-Dinitrobenzene	Ave	306686	324998		265	251	6.0	15.0
Nitrobenzene	Ave	200403	208538		261	251	4.1	15.0
Tetryl	Ave	177032	182727		259	251	3.2	15.0
Nitroglycerin	Ave	68133	75256		2760	2500	10.5	15.0
2,4,6-Trinitrotoluene	Ave	204031	219159		270	251	7.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		168727		243	250	-2.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	212578		263	251	4.8	15.0
2,6-Dinitrotoluene	Ave	149452	159255		267	251	6.6	15.0
2,4-Dinitrotoluene	Ave	303584	320080		265	251	5.4	15.0
2-Nitrotoluene	Ave	135051	135168		250	250	0.0	15.0
4-Nitrotoluene	Ave	113005	118699		263	251	5.0	15.0
3-Nitrotoluene	Ave	143029	147888		259	250	3.4	15.0
PETN	Ave	78605	86217		2740	2500	9.7	15.0
1,2-Dinitrobenzene	Ave	138212	146312		265	250	5.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/19 Calibration Date: 06/12/2020 18:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90768		264	250	5.6	15.0
RDX	Ave	116613	112836		242	250	-3.2	15.0
Picric acid	Ave	85131	86036		253	250	1.1	15.0
1,3,5-Trinitrobenzene	Ave	230309	242431		264	251	5.3	15.0
1,3-Dinitrobenzene	Ave	306686	324998		265	251	6.0	15.0
Nitrobenzene	Ave	200403	208538		261	251	4.1	15.0
Tetryl	Ave	177032	182727		259	251	3.2	15.0
Nitroglycerin	Ave	68133	75256		2760	2500	10.5	15.0
2,4,6-Trinitrotoluene	Ave	204031	219159		270	251	7.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		168727		243	250	-2.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	212578		263	251	4.8	15.0
2,6-Dinitrotoluene	Ave	149452	159255		267	251	6.6	15.0
2,4-Dinitrotoluene	Ave	303584	320080		265	251	5.4	15.0
2-Nitrotoluene	Ave	135051	135168		250	250	0.0	15.0
4-Nitrotoluene	Ave	113005	118699		263	251	5.0	15.0
3-Nitrotoluene	Ave	143029	147888		259	250	3.4	15.0
PETN	Ave	78605	86217		2740	2500	9.7	15.0
1,2-Dinitrobenzene	Ave	138212	146312		265	250	5.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/19 Calibration Date: 06/12/2020 18:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120019.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.55	6.85
RDX	7.80	7.65	7.95
Picric acid	8.11	7.96	8.26
1,3,5-Trinitrobenzene	8.96	8.81	9.11
1,3-Dinitrobenzene	9.62	9.47	9.77
Nitrobenzene	10.00	9.85	10.15
Tetryl	10.33	10.18	10.48
Nitroglycerin	10.84	10.70	11.00
2,4,6-Trinitrotoluene	11.30	11.21	11.41
4-Amino-2,6-dinitrotoluene	11.47	11.38	11.58
2-Amino-4,6-dinitrotoluene	11.76	11.68	11.88
2,6-Dinitrotoluene	11.90	11.82	12.02
2,4-Dinitrotoluene	12.10	12.02	12.22
2-Nitrotoluene	12.94	12.83	13.13
4-Nitrotoluene	13.38	13.27	13.57
3-Nitrotoluene	13.98	13.88	14.18
PETN	15.10	15.01	15.31
1,2-Dinitrobenzene	8.78	8.63	8.93

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/19 Calibration Date: 06/12/2020 18:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120019.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.55	6.85
RDX	7.80	7.65	7.95
Picric acid	8.11	7.96	8.26
1,3,5-Trinitrobenzene	8.96	8.81	9.11
1,3-Dinitrobenzene	9.62	9.47	9.77
Nitrobenzene	10.00	9.85	10.15
Tetryl	10.33	10.18	10.48
Nitroglycerin	10.84	10.70	11.00
2,4,6-Trinitrotoluene	11.30	11.21	11.41
4-Amino-2,6-dinitrotoluene	11.47	11.38	11.58
2-Amino-4,6-dinitrotoluene	11.76	11.68	11.88
2,6-Dinitrotoluene	11.90	11.82	12.02
2,4-Dinitrotoluene	12.10	12.02	12.22
2-Nitrotoluene	12.94	12.83	13.13
4-Nitrotoluene	13.38	13.27	13.57
3-Nitrotoluene	13.98	13.88	14.18
PETN	15.10	15.01	15.31
1,2-Dinitrobenzene	8.78	8.63	8.93

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120019.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2020 18:02:33 ALS Bottle#: 7 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092367-019
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:11:26 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 14:03:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.713	6.704	0.009	22692	0.2500	0.2640	
7 RDX	1	7.800	7.797	0.003	28209	0.2500	0.2419	
8 2,4,6-Trinitrophenol	1	8.113	8.111	0.002	21509	0.2500	0.2527	
$ 9 1,2-Dinitrobenzene	1	8.780	8.777	0.003	36578	0.2500	0.2647	
10 1,3,5-Trinitrobenzene	1	8.960	8.957	0.003	60729	0.2505	0.2637	
11 1,3-Dinitrobenzene	1	9.620	9.617	0.003	81412	0.2505	0.2655	
12 Nitrobenzene	1	10.000	10.004	-0.004	52343	0.2510	0.2612	
14 Tetryl	1	10.326	10.330	-0.004	45773	0.2505	0.2586	
15 Nitroglycerin	2	10.840	10.850	-0.010	188140	2.50	2.76	
16 2,4,6-Trinitrotoluene	1	11.300	11.310	-0.010	55009	0.2510	0.2696	
17 4-Amino-2,6-dinitrotoluene	1	11.473	11.484	-0.011	42224	0.2503	0.2432	
18 2-Amino-4,6-dinitrotoluene	1	11.760	11.784	-0.024	53357	0.2510	0.2631	
19 2,6-Dinitrotoluene	1	11.900	11.924	-0.024	39973	0.2510	0.2675	
20 2,4-Dinitrotoluene	1	12.100	12.124	-0.024	80340	0.2510	0.2646	
21 o-Nitrotoluene	1	12.940	12.977	-0.037	33792	0.2500	0.2502	
22 p-Nitrotoluene	1	13.380	13.424	-0.044	29734	0.2505	0.2631	
23 m-Nitrotoluene	1	13.980	14.030	-0.050	37009	0.2503	0.2588	
24 PETN	2	15.100	15.164	-0.064	215542	2.50	2.74	

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120019.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2020 18:02:33 ALS Bottle#: 7 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092367-019
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:11:26 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 14:03:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.713	6.704	0.009	22692	0.2500	0.2640	
7 RDX	1	7.800	7.797	0.003	28209	0.2500	0.2419	
8 2,4,6-Trinitrophenol	1	8.113	8.111	0.002	21509	0.2500	0.2527	
$ 9 1,2-Dinitrobenzene	1	8.780	8.777	0.003	36578	0.2500	0.2647	
10 1,3,5-Trinitrobenzene	1	8.960	8.957	0.003	60729	0.2505	0.2637	
11 1,3-Dinitrobenzene	1	9.620	9.617	0.003	81412	0.2505	0.2655	
12 Nitrobenzene	1	10.000	10.004	-0.004	52343	0.2510	0.2612	
14 Tetryl	1	10.326	10.330	-0.004	45773	0.2505	0.2586	
15 Nitroglycerin	2	10.840	10.850	-0.010	188140	2.50	2.76	
16 2,4,6-Trinitrotoluene	1	11.300	11.310	-0.010	55009	0.2510	0.2696	
17 4-Amino-2,6-dinitrotoluene	1	11.473	11.484	-0.011	42224	0.2503	0.2432	
18 2-Amino-4,6-dinitrotoluene	1	11.760	11.784	-0.024	53357	0.2510	0.2631	
19 2,6-Dinitrotoluene	1	11.900	11.924	-0.024	39973	0.2510	0.2675	
20 2,4-Dinitrotoluene	1	12.100	12.124	-0.024	80340	0.2510	0.2646	
21 o-Nitrotoluene	1	12.940	12.977	-0.037	33792	0.2500	0.2502	
22 p-Nitrotoluene	1	13.380	13.424	-0.044	29734	0.2505	0.2631	
23 m-Nitrotoluene	1	13.980	14.030	-0.050	37009	0.2503	0.2588	
24 PETN	2	15.100	15.164	-0.064	215542	2.50	2.74	

Reagents:

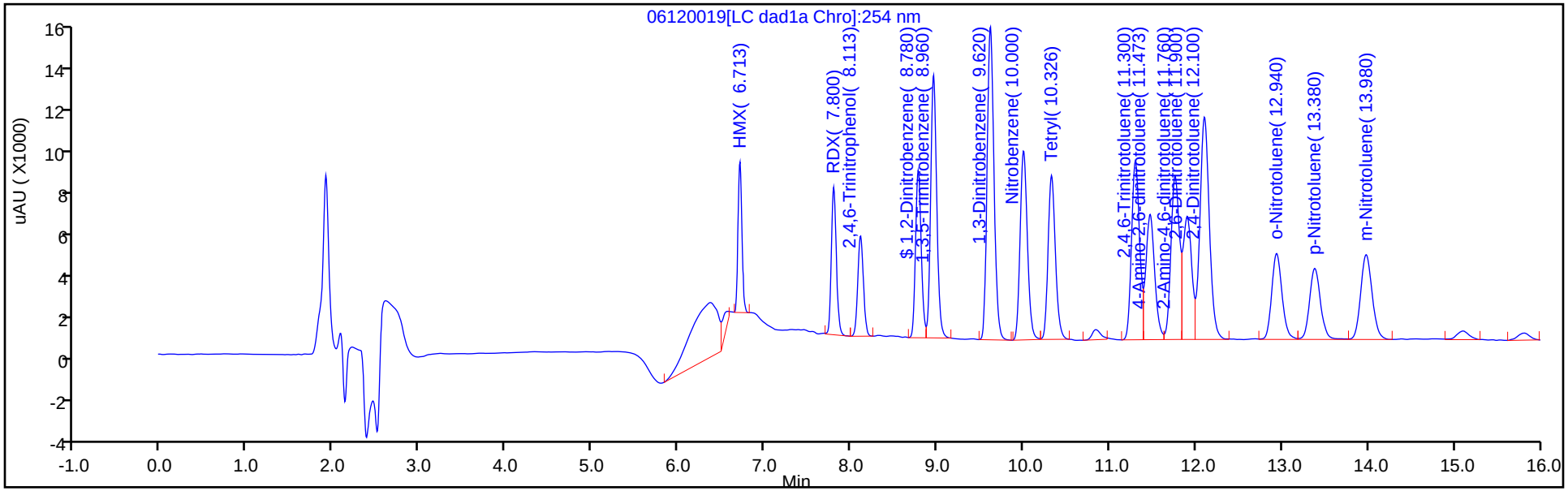
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 16-Jun-2020 18:11:26 Chrom Revision: 2.3 10-Jun-2020 22:46:48

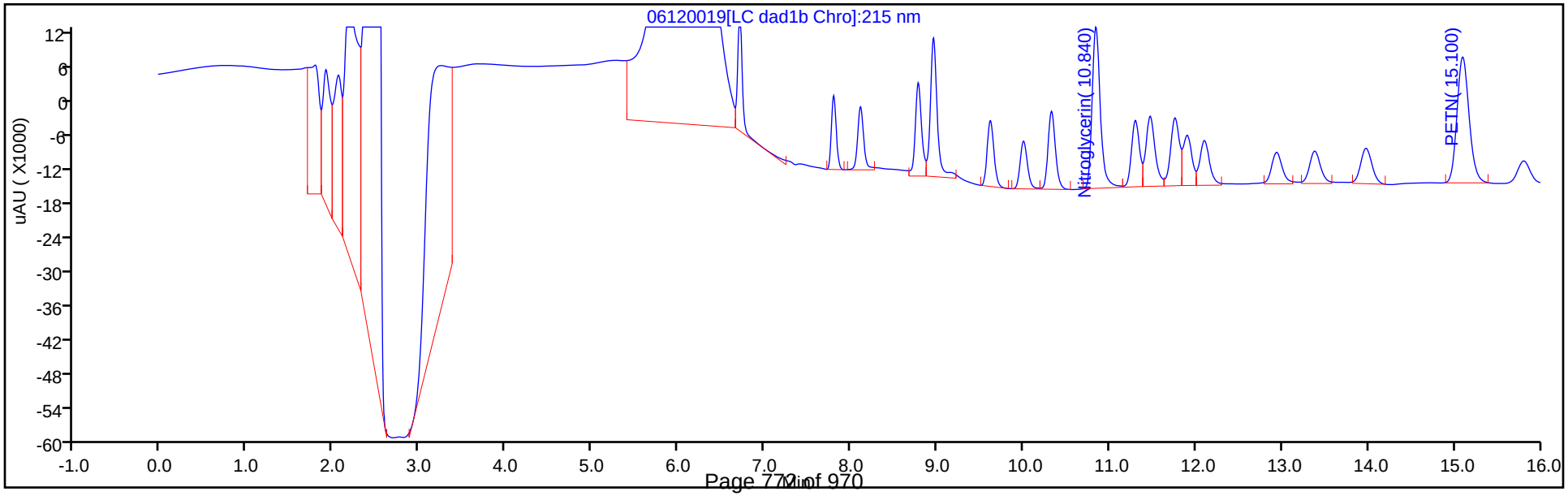
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120019.d				
Injection Date:	12-Jun-2020 18:02:33	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	19
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

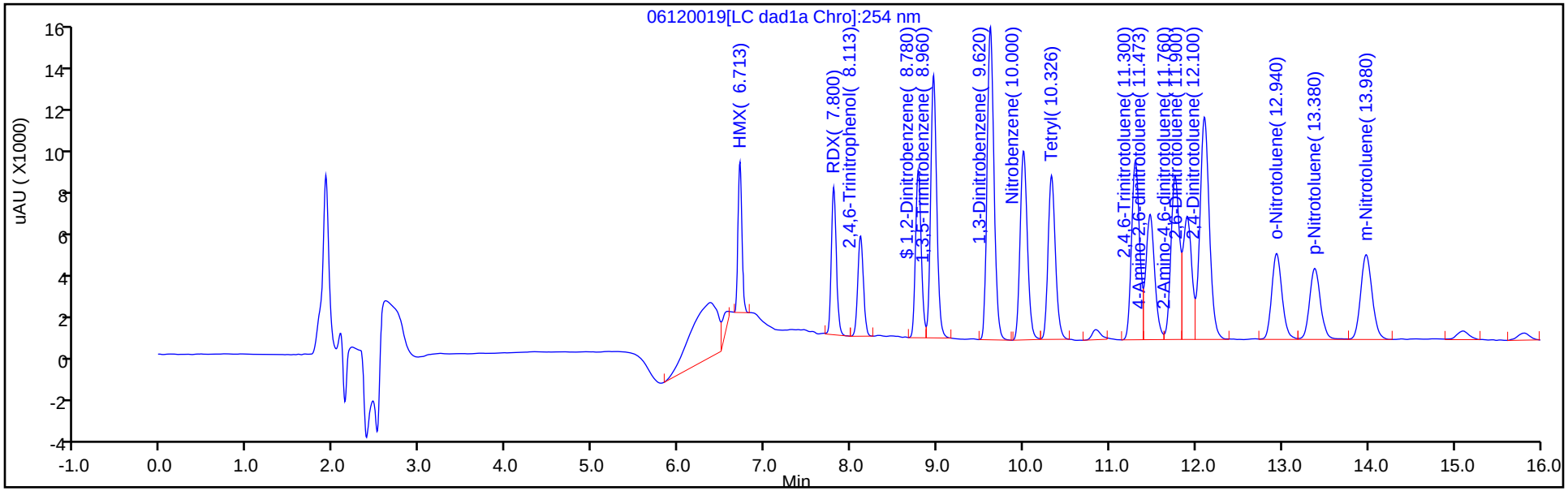


Report Date: 16-Jun-2020 18:11:26 Chrom Revision: 2.3 10-Jun-2020 22:46:48

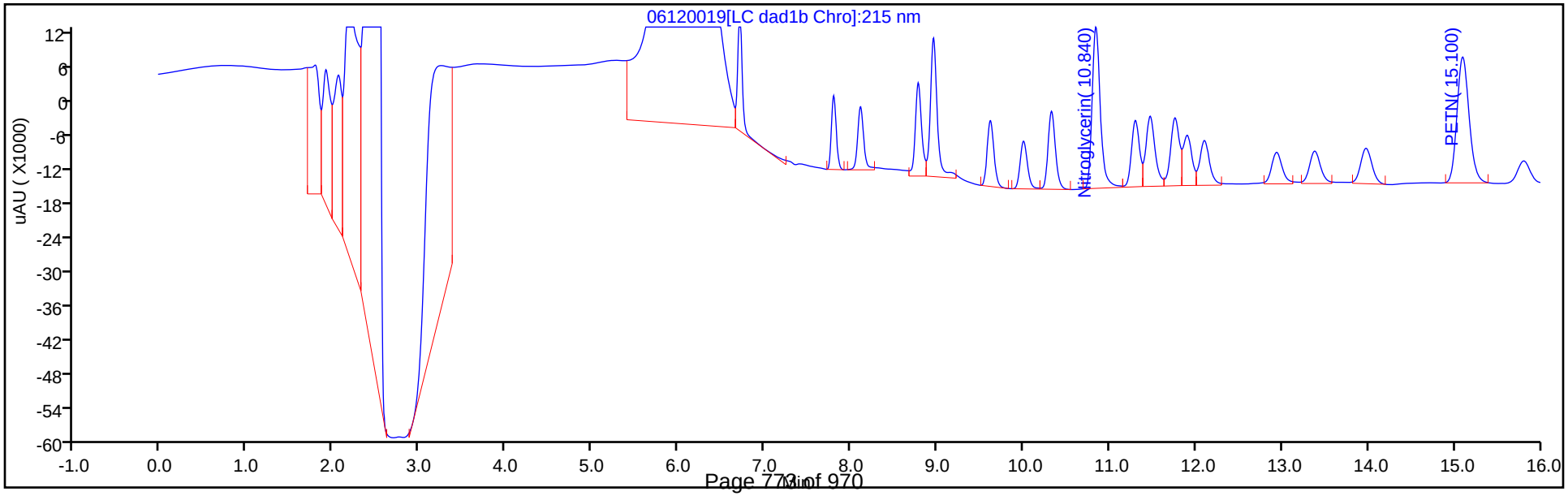
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120019.d				
Injection Date:	12-Jun-2020 18:02:33	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	19
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/20 Calibration Date: 06/12/2020 18:25

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	207341		238	250	-4.7	15.0
DNX	Ave	152928	153890		252	250	0.6	15.0
MNX	Ave	158544	141916		261	292	-10.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/20 Calibration Date: 06/12/2020 18:25

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	207341		238	250	-4.7	15.0
DNX	Ave	152928	153890		252	250	0.6	15.0
MNX	Ave	158544	141916		261	292	-10.5	15.0

FORM VII 8330A

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498536/20 Calibration Date: 06/12/2020 18:25

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120020.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.85	7.05
MNX	7.39	7.24	7.54

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/20 Calibration Date: 06/12/2020 18:25

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120020.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.85	7.05
MNX	7.39	7.24	7.54

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120020.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Jun-2020 18:25:30	ALS Bottle#:	9	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092367-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:11:27	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 14:03:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.621	6.621	0.000	51887	0.2503	0.2384	M
5 DNX	1	6.941	6.947	-0.006	38511	0.2503	0.2518	M
6 MNX	1	7.394	7.394	0.000	41404	0.2918	0.2612	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120020.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Jun-2020 18:25:30	ALS Bottle#:	9	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092367-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:11:27	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 14:03:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.621	6.621	0.000	51887	0.2503	0.2384	M
5 DNX	1	6.941	6.947	-0.006	38511	0.2503	0.2518	M
6 MNX	1	7.394	7.394	0.000	41404	0.2918	0.2612	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

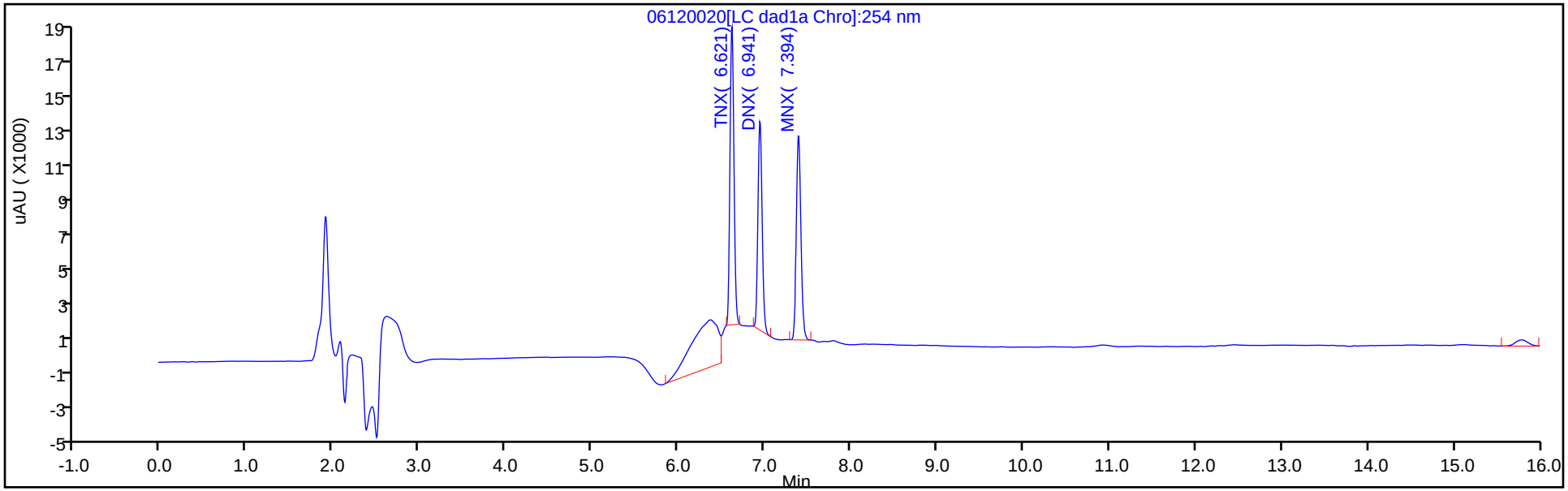
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 16-Jun-2020 18:11:27 Chrom Revision: 2.3 10-Jun-2020 22:46:48

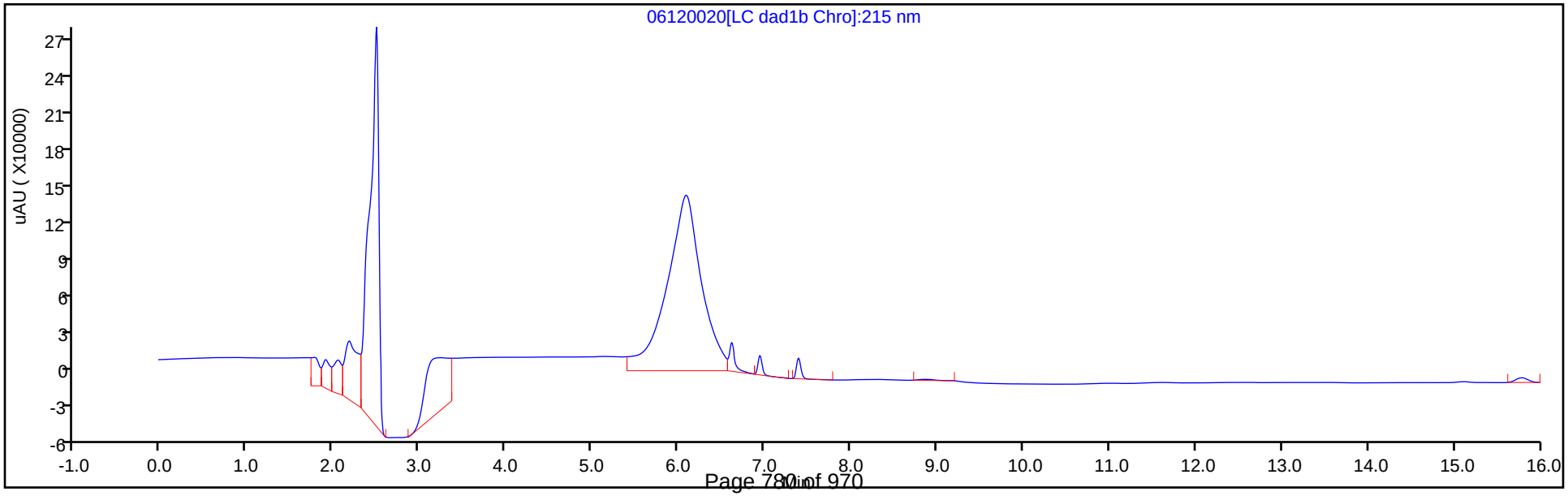
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d				
Injection Date:	12-Jun-2020 18:25:30	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	20
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

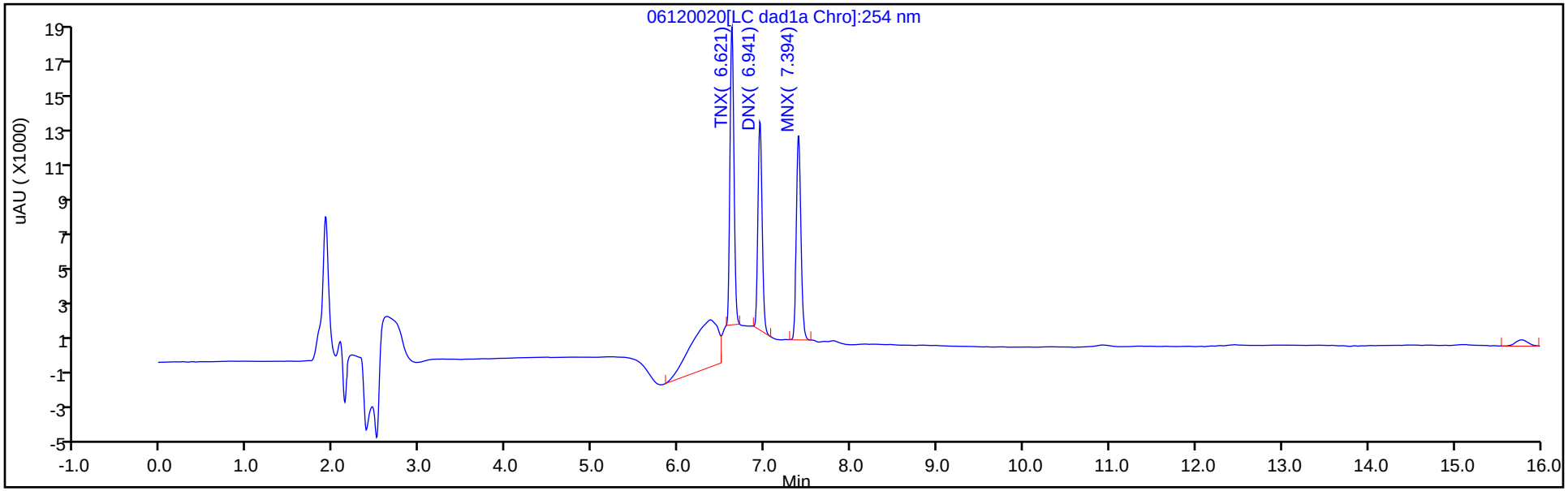


Report Date: 16-Jun-2020 18:11:27 Chrom Revision: 2.3 10-Jun-2020 22:46:48

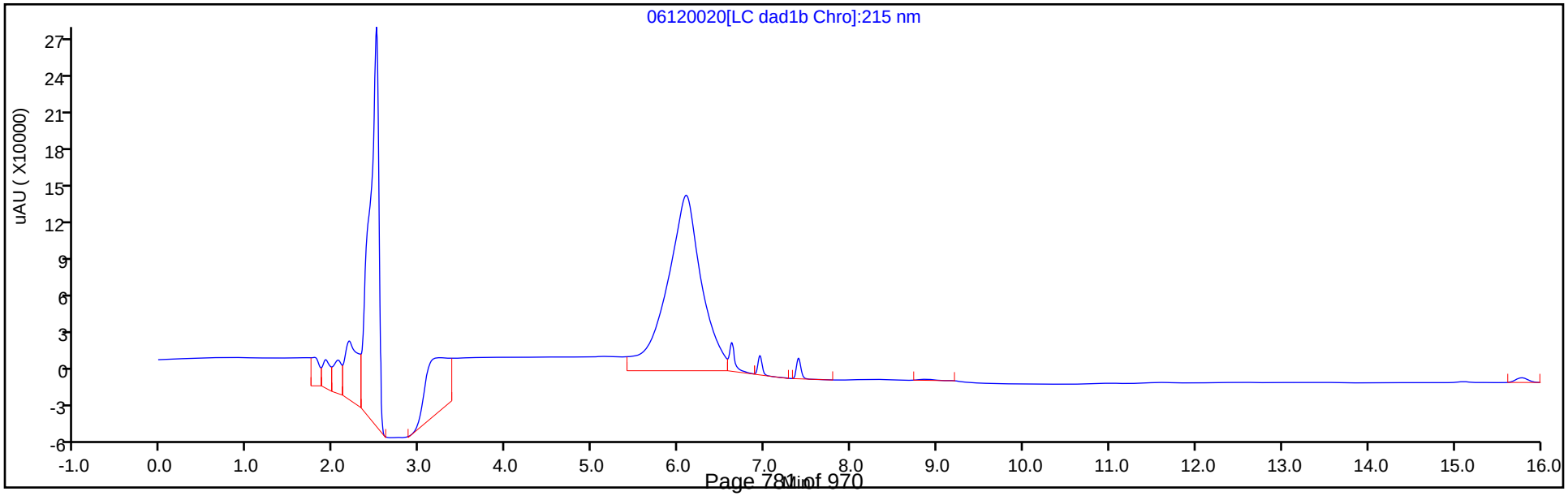
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d				
Injection Date:	12-Jun-2020 18:25:30	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	20
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

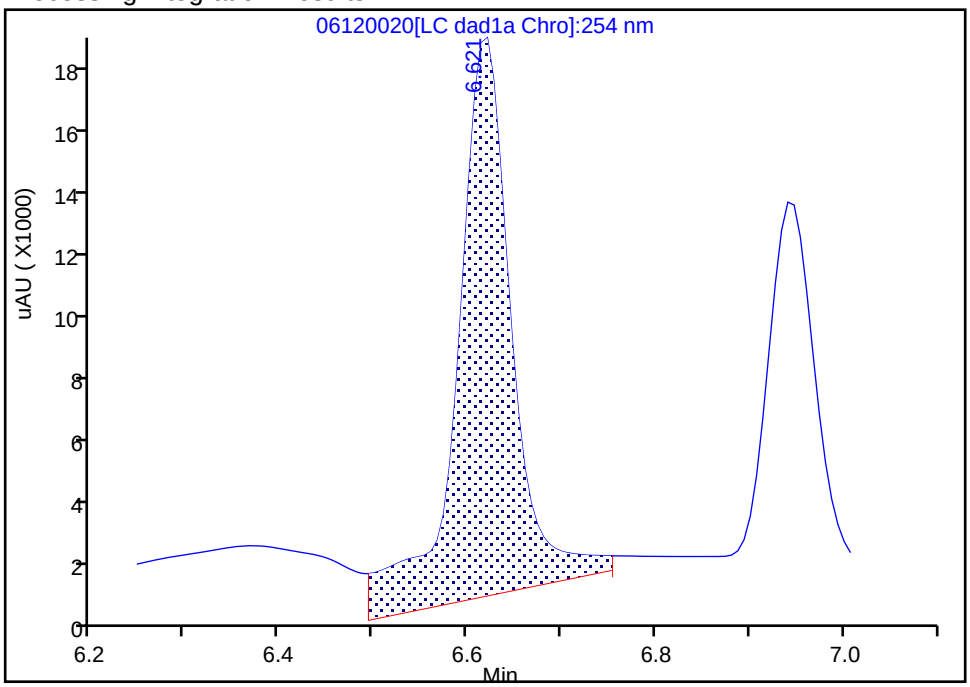
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d				
Injection Date:	12-Jun-2020 18:25:30	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

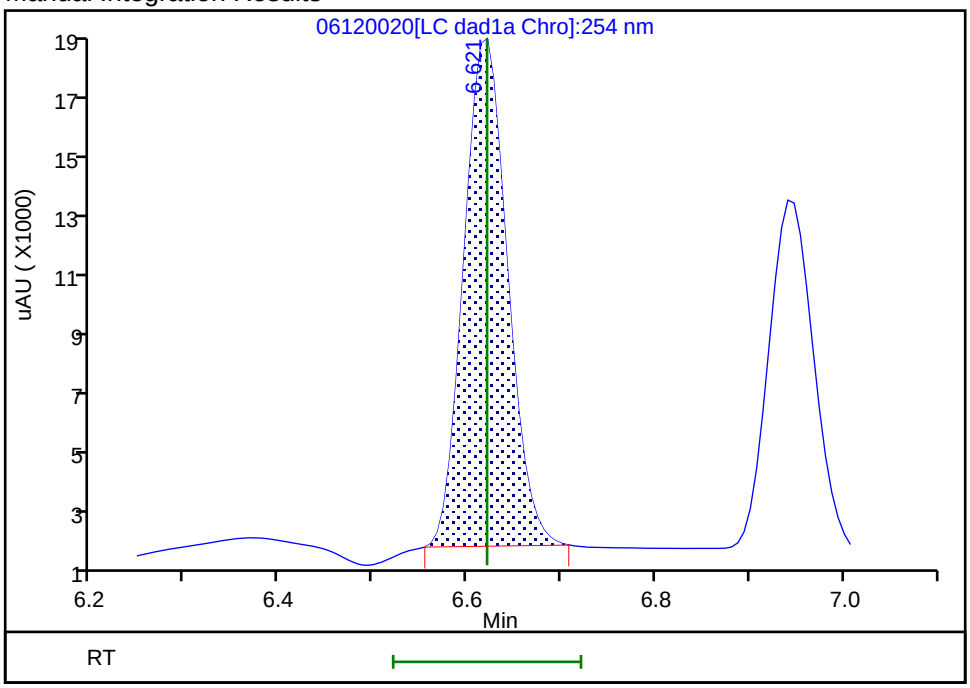
Processing Integration Results

RT: 6.62
Area: 70664
Amount: 0.324730
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 51887
Amount: 0.238442
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 14:03:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

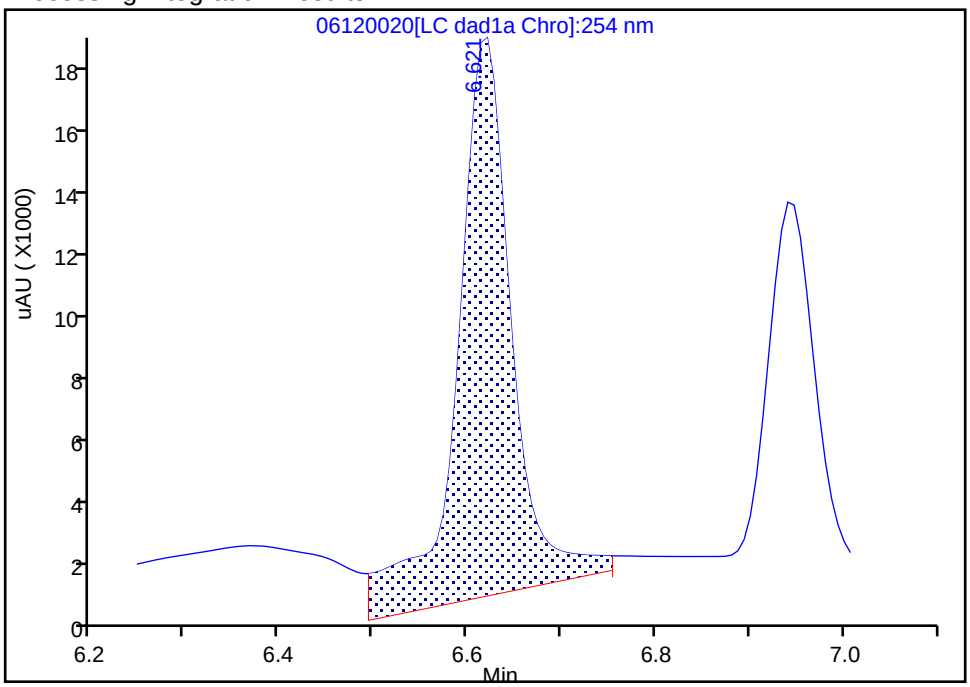
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d				
Injection Date:	12-Jun-2020 18:25:30	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

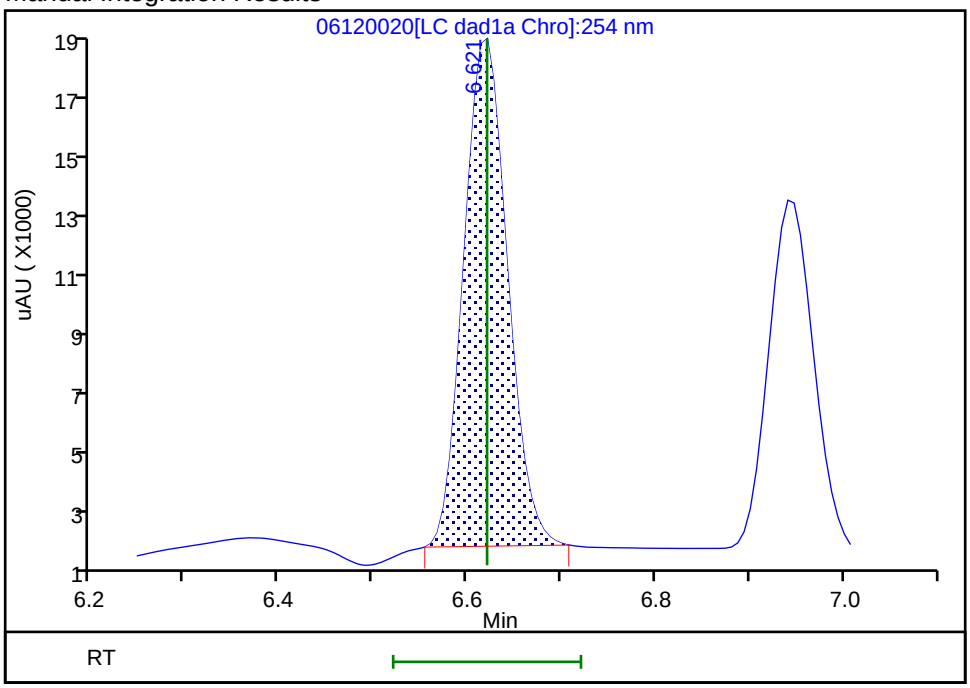
Processing Integration Results

RT: 6.62
Area: 70664
Amount: 0.324730
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 51887
Amount: 0.238442
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 14:03:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

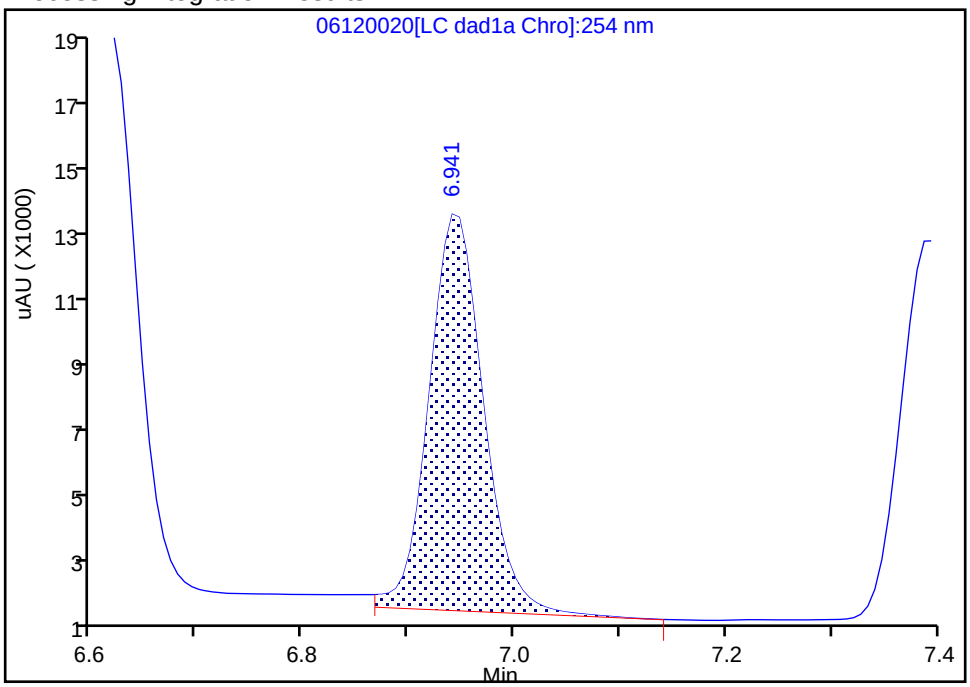
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d				
Injection Date:	12-Jun-2020 18:25:30	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

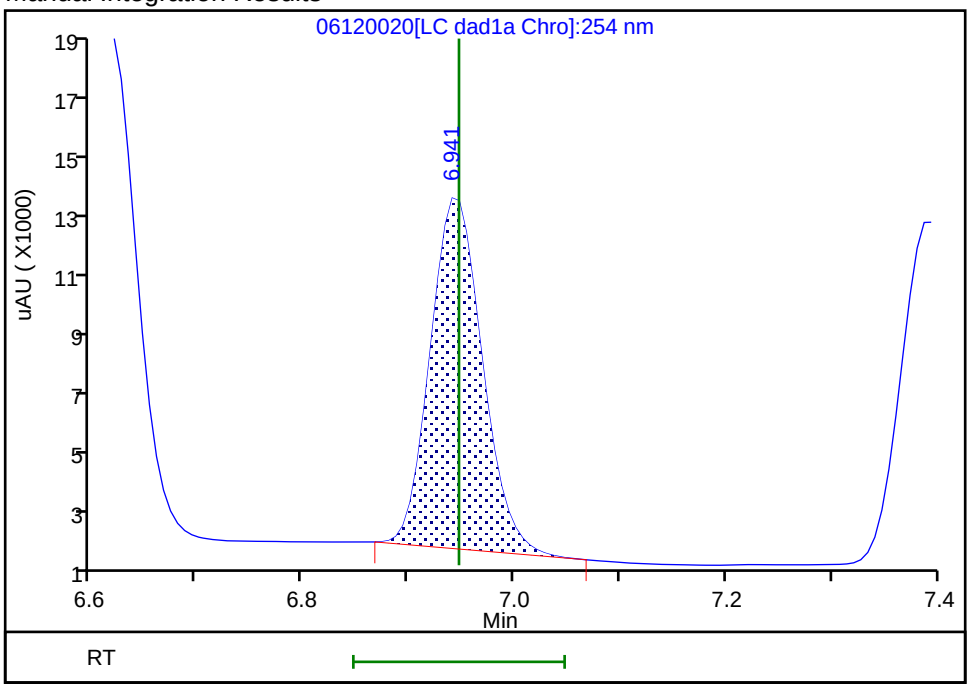
Processing Integration Results

RT: 6.94
Area: 41158
Amount: 0.269133
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 38511
Amount: 0.251824
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 14:03:28

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

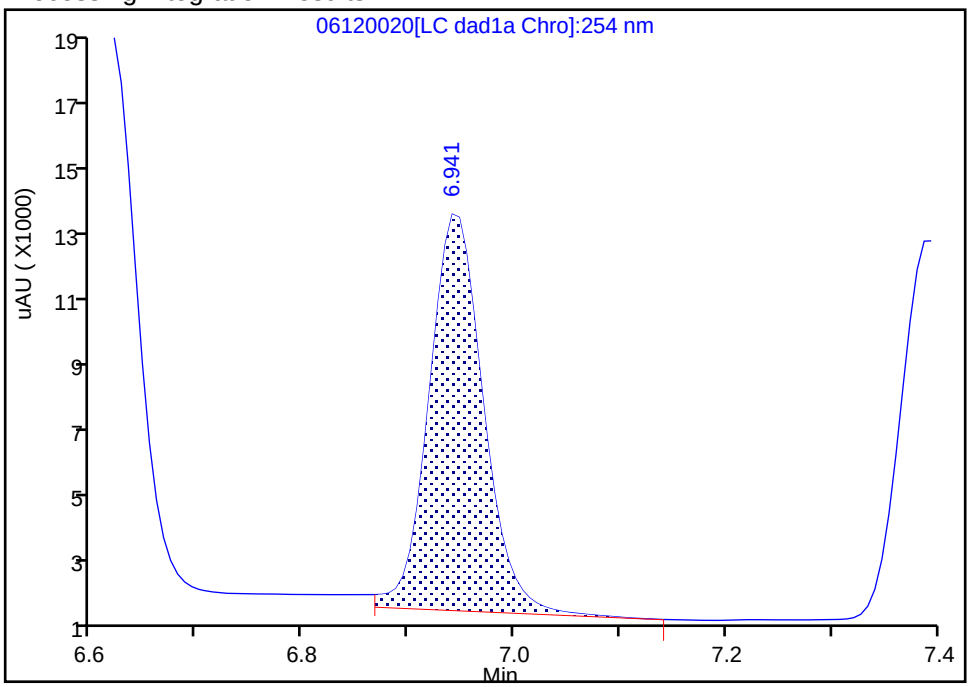
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d				
Injection Date:	12-Jun-2020 18:25:30	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

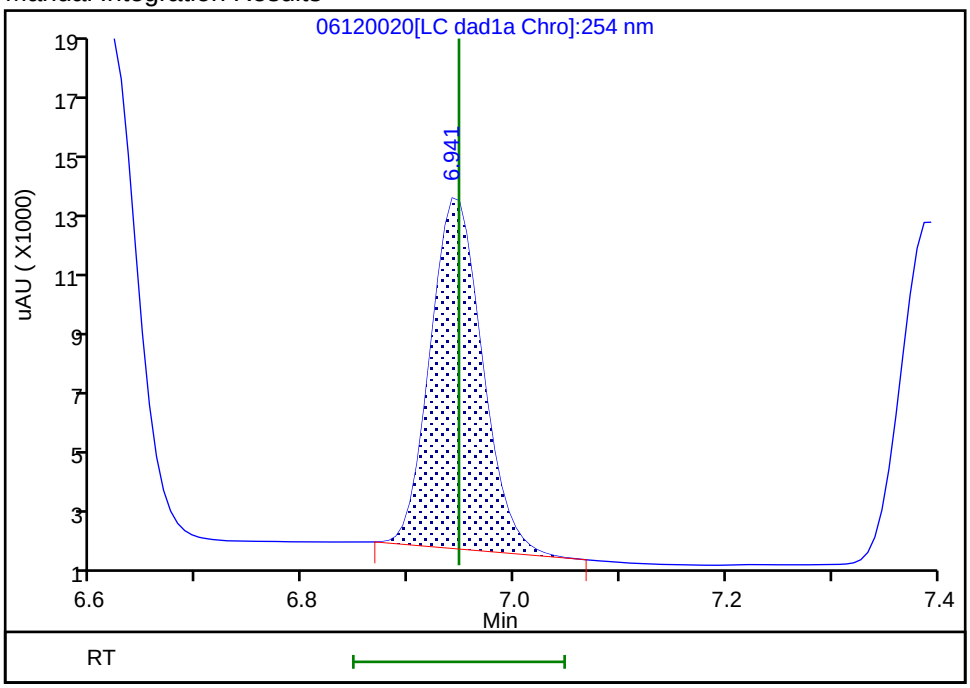
Processing Integration Results

RT: 6.94
Area: 41158
Amount: 0.269133
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 38511
Amount: 0.251824
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 14:03:28

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/31 Calibration Date: 06/12/2020 22:38

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120031.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	91140		265	250	6.0	15.0
RDX	Ave	116613	111884		240	250	-4.1	15.0
Picric acid	Ave	85131	85924		252	250	0.9	15.0
1,3,5-Trinitrobenzene	Ave	230309	242248		263	251	5.2	15.0
1,3-Dinitrobenzene	Ave	306686	324359		265	251	5.8	15.0
Nitrobenzene	Ave	200403	203964		255	251	1.8	15.0
Tetryl	Ave	177032	182838		259	251	3.3	15.0
Nitroglycerin	Ave	68133	74074		2720	2500	8.7	15.0
2,4,6-Trinitrotoluene	Ave	204031	222857		274	251	9.2	15.0
4-Amino-2,6-dinitrotoluene	Lin2		170593		246	250	-1.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	213904		265	251	5.5	15.0
2,6-Dinitrotoluene	Ave	149452	166490		280	251	11.4	15.0
2,4-Dinitrotoluene	Ave	303584	331235		274	251	9.1	15.0
2-Nitrotoluene	Ave	135051	132036		244	250	-2.2	15.0
4-Nitrotoluene	Ave	113005	115729		257	251	2.4	15.0
3-Nitrotoluene	Ave	143029	151085		264	250	5.6	15.0
PETN	Ave	78605	86820		2760	2500	10.5	15.0
1,2-Dinitrobenzene	Ave	138212	146136		264	250	5.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/31 Calibration Date: 06/12/2020 22:38

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06120031.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.55	6.85
RDX	7.80	7.65	7.95
Picric acid	8.10	7.96	8.26
1,3,5-Trinitrobenzene	8.94	8.81	9.11
1,3-Dinitrobenzene	9.60	9.47	9.77
Nitrobenzene	9.98	9.85	10.15
Tetryl	10.30	10.18	10.48
Nitroglycerin	10.81	10.70	11.00
2,4,6-Trinitrotoluene	11.27	11.21	11.41
4-Amino-2,6-dinitrotoluene	11.44	11.38	11.58
2-Amino-4,6-dinitrotoluene	11.72	11.68	11.88
2,6-Dinitrotoluene	11.87	11.82	12.02
2,4-Dinitrotoluene	12.07	12.02	12.22
2-Nitrotoluene	12.90	12.83	13.13
4-Nitrotoluene	13.34	13.27	13.57
3-Nitrotoluene	13.94	13.88	14.18
PETN	15.06	15.01	15.31
1,2-Dinitrobenzene	8.77	8.63	8.93

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120031.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2020 22:38:28 ALS Bottle#: 7 Worklist Smp#: 31
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092367-031
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 20:56:09 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 20:21:50

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.708	6.704	0.004	22785	0.2500	0.2651	
7 RDX	1	7.795	7.797	-0.002	27971	0.2500	0.2399	
8 2,4,6-Trinitrophenol	1	8.102	8.111	-0.009	21481	0.2500	0.2523	
$ 9 1,2-Dinitrobenzene	1	8.768	8.777	-0.009	36534	0.2500	0.2643	
10 1,3,5-Trinitrobenzene	1	8.942	8.957	-0.015	60683	0.2505	0.2635	
11 1,3-Dinitrobenzene	1	9.602	9.617	-0.015	81252	0.2505	0.2649	
12 Nitrobenzene	1	9.982	10.004	-0.022	51195	0.2510	0.2555	
14 Tetryl	1	10.302	10.330	-0.028	45801	0.2505	0.2587	
15 Nitroglycerin	2	10.808	10.850	-0.042	185184	2.50	2.72	
16 2,4,6-Trinitrotoluene	1	11.268	11.310	-0.042	55937	0.2510	0.2742	
17 4-Amino-2,6-dinitrotoluene	1	11.435	11.484	-0.049	42691	0.2503	0.2459	
18 2-Amino-4,6-dinitrotoluene	1	11.722	11.784	-0.062	53690	0.2510	0.2647	
19 2,6-Dinitrotoluene	1	11.868	11.924	-0.056	41789	0.2510	0.2796	
20 2,4-Dinitrotoluene	1	12.068	12.124	-0.056	83140	0.2510	0.2739	
21 o-Nitrotoluene	1	12.902	12.977	-0.075	33009	0.2500	0.2444	
22 p-Nitrotoluene	1	13.342	13.424	-0.082	28990	0.2505	0.2565	
23 m-Nitrotoluene	1	13.942	14.030	-0.088	37809	0.2503	0.2643	
24 PETN	2	15.055	15.164	-0.109	217051	2.50	2.76	

Reagents:

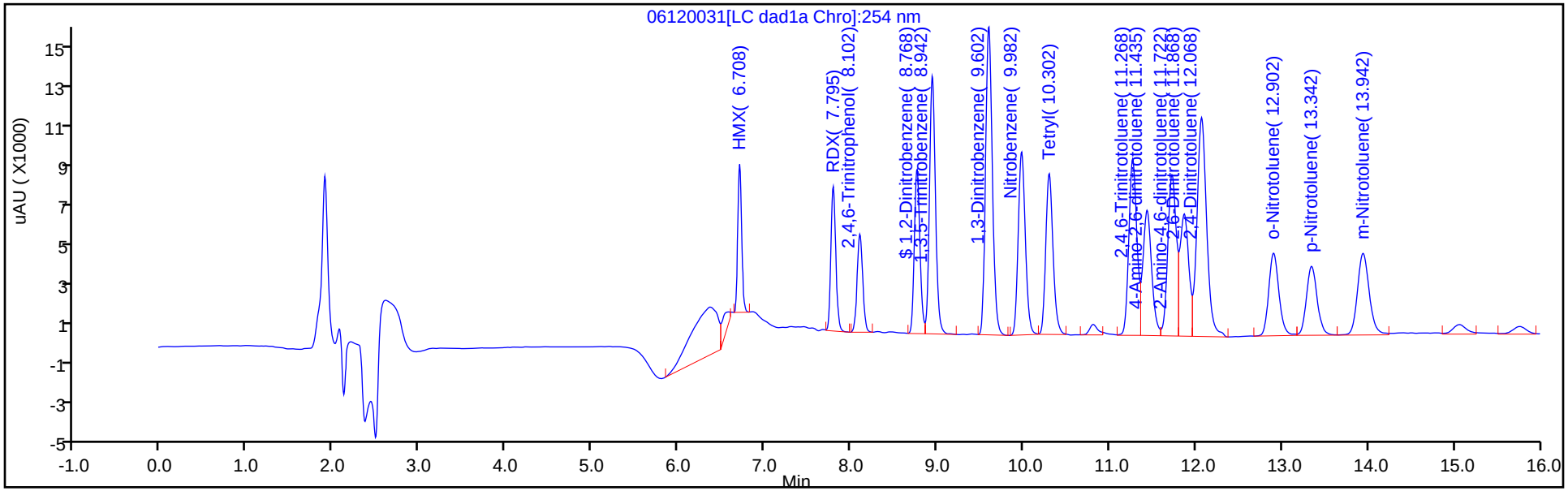
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 16-Jun-2020 20:56:09 Chrom Revision: 2.3 10-Jun-2020 22:46:48

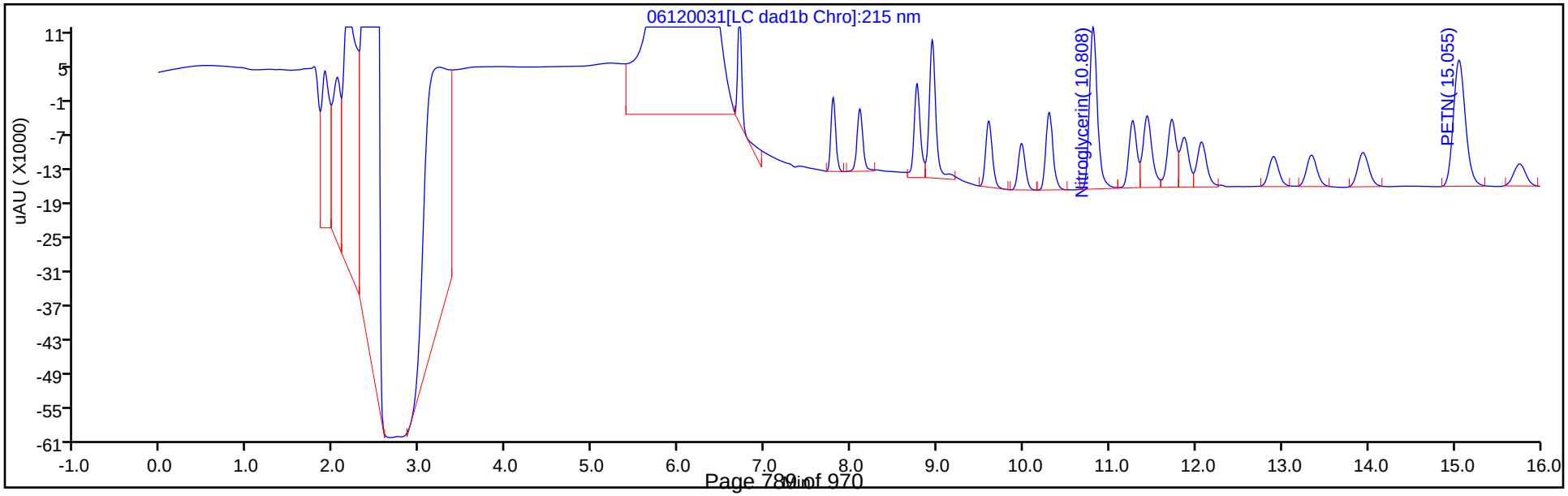
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120031.d				
Injection Date:	12-Jun-2020 22:38:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	31
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/32 Calibration Date: 06/12/2020 23:01

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120032.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	199205		229	250	-8.5	15.0
DNX	Ave	152928	152871		250	250	-0.0	15.0
MNX	Ave	158544	141306		260	292	-10.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-498537/32 Calibration Date: 06/12/2020 23:01

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06120032.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.63	6.52	6.72
DNX	6.95	6.85	7.05
MNX	7.39	7.24	7.54

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120032.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Jun-2020 23:01:28	ALS Bottle#:	9	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092367-032				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:56:10	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 14:03:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.626	6.621	0.005	49851	0.2503	0.2291	M
5 DNX	1	6.953	6.947	0.006	38256	0.2503	0.2502	M
6 MNX	1	7.393	7.394	-0.001	41226	0.2918	0.2600	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

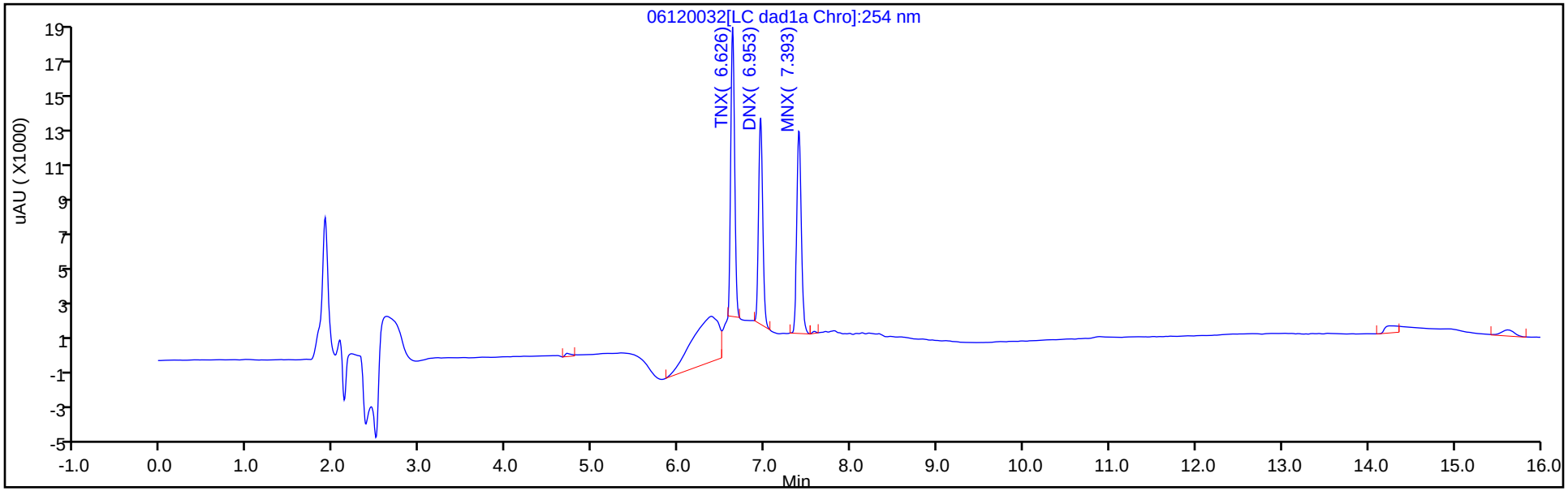
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 16-Jun-2020 20:56:10 Chrom Revision: 2.3 10-Jun-2020 22:46:48

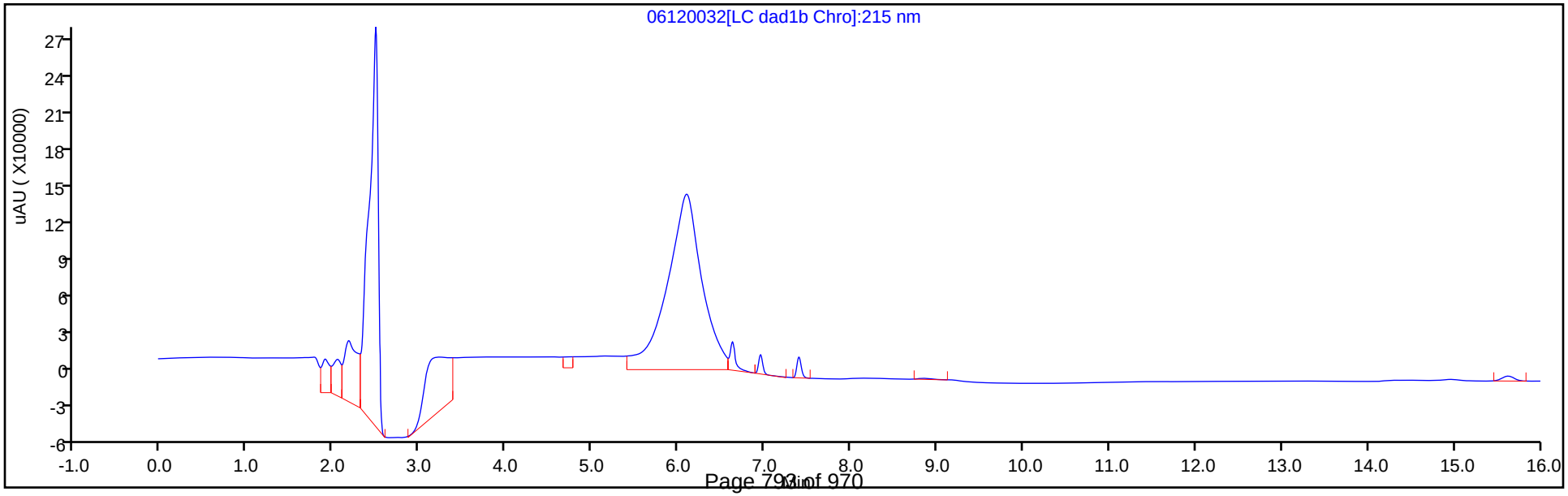
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120032.d				
Injection Date:	12-Jun-2020 23:01:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	32
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

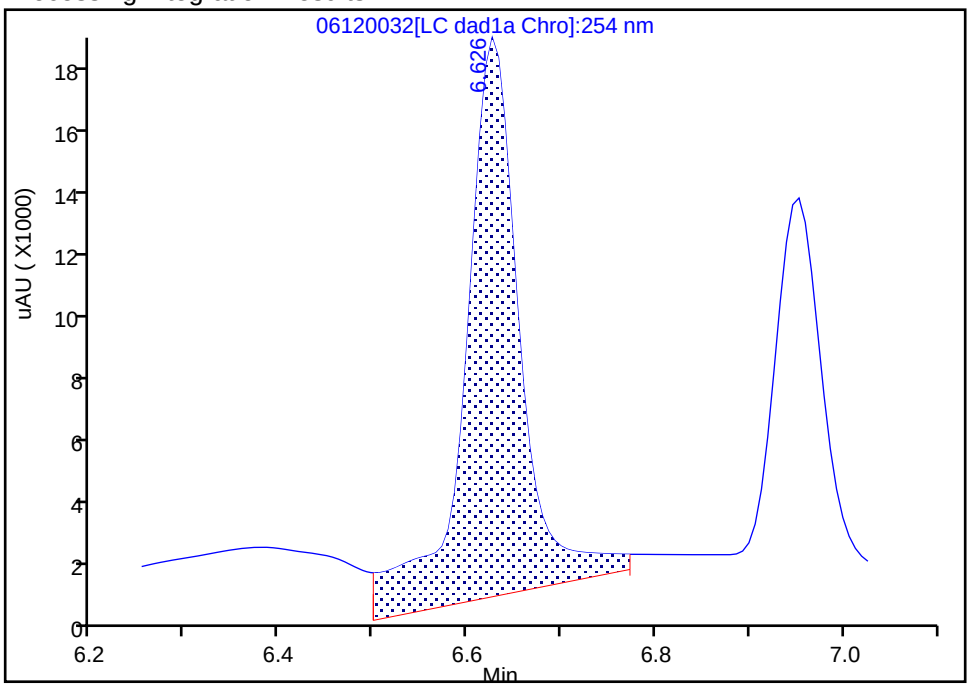
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120032.d				
Injection Date:	12-Jun-2020 23:01:28	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

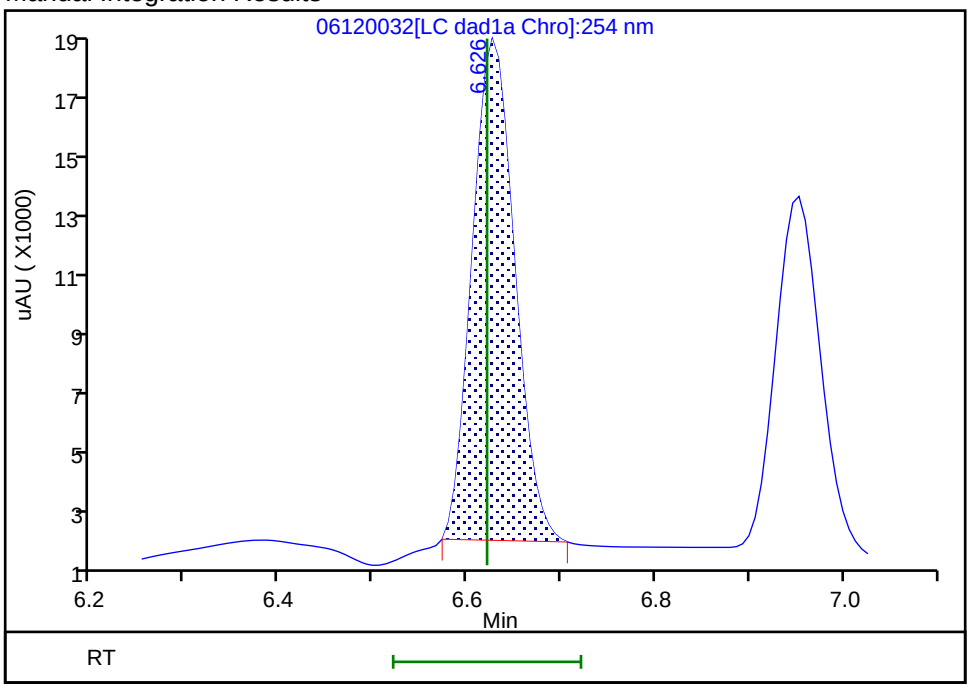
Processing Integration Results

RT: 6.63
Area: 71282
Amount: 0.327570
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 49851
Amount: 0.229086
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 14:03:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

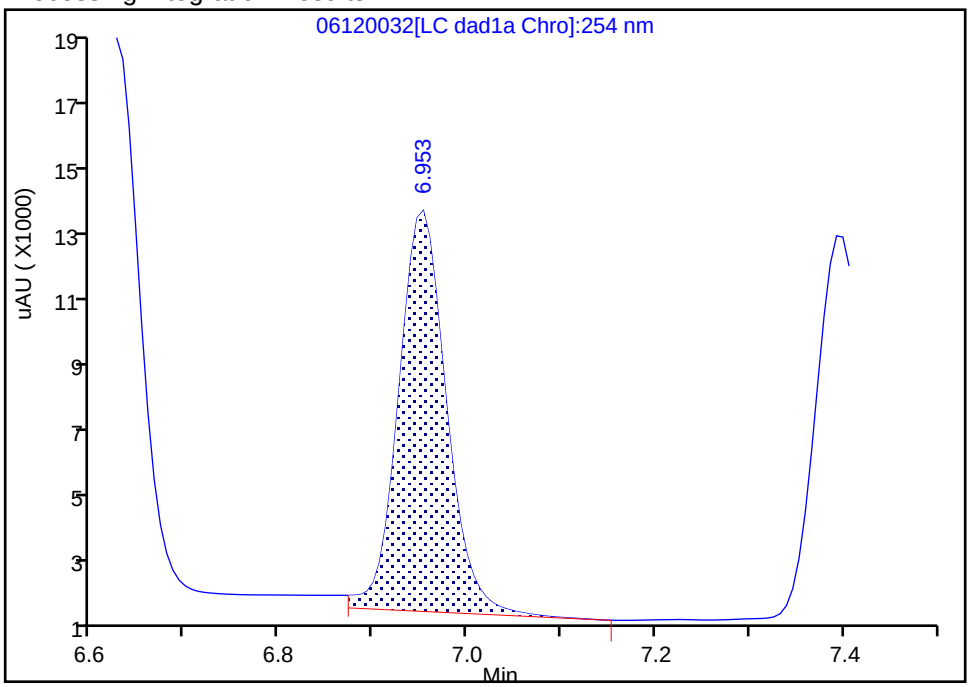
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120032.d				
Injection Date:	12-Jun-2020 23:01:28	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

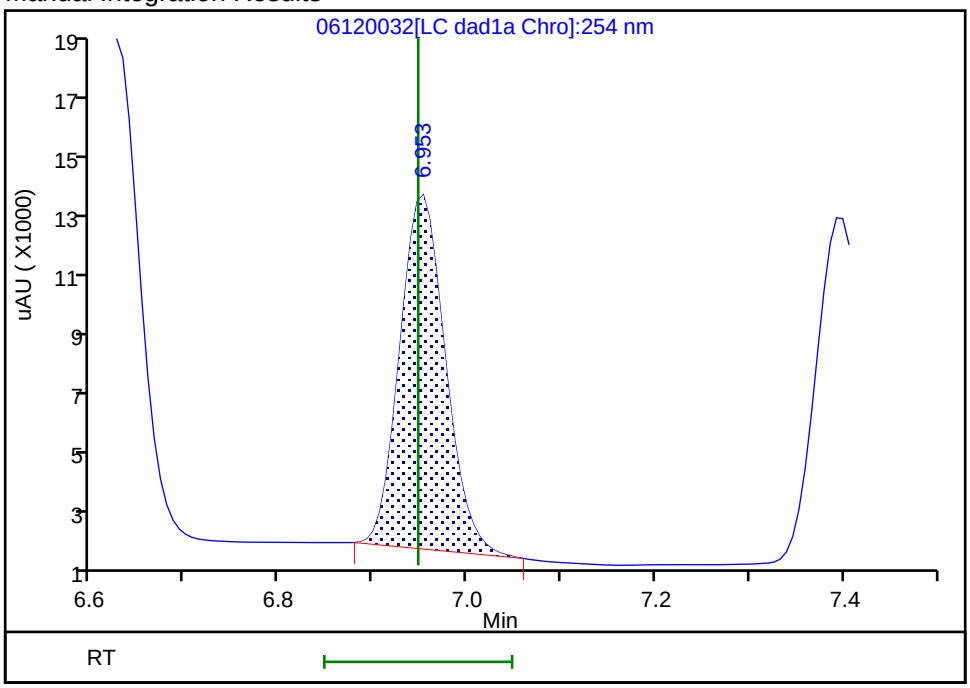
Processing Integration Results

RT: 6.95
Area: 41072
Amount: 0.268570
Amount Units: ug/mL



Manual Integration Results

RT: 6.95
Area: 38256
Amount: 0.250156
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 14:03:49

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/7 Calibration Date: 06/17/2020 18:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90940		264	250	5.8	15.0
RDX	Ave	116613	112772		242	250	-3.3	15.0
Picric acid	Ave	85131	85468		251	250	0.4	15.0
1,3,5-Trinitrobenzene	Ave	230309	242287		264	251	5.2	15.0
1,3-Dinitrobenzene	Ave	306686	325920		266	251	6.3	15.0
Nitrobenzene	Ave	200403	211056		264	251	5.3	15.0
Tetryl	Ave	177032	183026		259	251	3.4	15.0
Nitroglycerin	Ave	68133	72814		2670	2500	6.9	15.0
2,4,6-Trinitrotoluene	Ave	204031	219104		270	251	7.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		169127		244	250	-2.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	212446		263	251	4.7	15.0
2,6-Dinitrotoluene	Ave	149452	161665		272	251	8.2	15.0
2,4-Dinitrotoluene	Ave	303584	318964		264	251	5.1	15.0
2-Nitrotoluene	Ave	135051	137300		254	250	1.7	15.0
4-Nitrotoluene	Ave	113005	114922		255	251	1.7	15.0
3-Nitrotoluene	Ave	143029	149375		261	250	4.4	15.0
PETN	Ave	78605	84821		2700	2500	7.9	15.0
1,2-Dinitrobenzene	Ave	138212	146696		265	250	6.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/7 Calibration Date: 06/17/2020 18:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.73	6.58	6.88
RDX	7.79	7.64	7.94
Picric acid	8.10	7.95	8.25
1,3,5-Trinitrobenzene	8.93	8.78	9.08
1,3-Dinitrobenzene	9.58	9.43	9.73
Nitrobenzene	9.95	9.80	10.10
Tetryl	10.26	10.11	10.41
Nitroglycerin	10.78	10.63	10.93
2,4,6-Trinitrotoluene	11.24	11.14	11.34
4-Amino-2,6-dinitrotoluene	11.40	11.30	11.50
2-Amino-4,6-dinitrotoluene	11.69	11.59	11.79
2,6-Dinitrotoluene	11.84	11.74	11.94
2,4-Dinitrotoluene	12.04	11.94	12.14
2-Nitrotoluene	12.87	12.72	13.02
4-Nitrotoluene	13.29	13.14	13.44
3-Nitrotoluene	13.89	13.74	14.04
PETN	14.97	14.82	15.12
1,2-Dinitrobenzene	8.75	8.60	8.90

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170007.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 17-Jun-2020 18:02:53 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092523-007
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:45:56 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 17-Jun-2020 19:07:16

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.725	6.725	0.000	22735	0.2500	0.2645	M
7 RDX	1	7.792	7.792	0.000	28193	0.2500	0.2418	
8 2,4,6-Trinitrophenol	1	8.099	8.099	0.000	21367	0.2500	0.2510	
$ 9 1,2-Dinitrobenzene	1	8.752	8.752	0.000	36674	0.2500	0.2653	
10 1,3,5-Trinitrobenzene	1	8.932	8.932	0.000	60693	0.2505	0.2635	
11 1,3-Dinitrobenzene	1	9.578	9.578	0.000	81643	0.2505	0.2662	
12 Nitrobenzene	1	9.952	9.952	0.000	52975	0.2510	0.2643	
14 Tetryl	1	10.258	10.258	0.000	45848	0.2505	0.2590	
15 Nitroglycerin	2	10.778	10.778	0.000	182035	2.50	2.67	
16 2,4,6-Trinitrotoluene	1	11.238	11.238	0.000	54995	0.2510	0.2695	
17 4-Amino-2,6-dinitrotoluene	1	11.398	11.398	0.000	42324	0.2503	0.2438	
18 2-Amino-4,6-dinitrotoluene	1	11.692	11.692	0.000	53324	0.2510	0.2629	
19 2,6-Dinitrotoluene	1	11.838	11.838	0.000	40578	0.2510	0.2715	
20 2,4-Dinitrotoluene	1	12.038	12.038	0.000	80060	0.2510	0.2637	
21 o-Nitrotoluene	1	12.865	12.865	0.000	34325	0.2500	0.2542	
22 p-Nitrotoluene	1	13.292	13.292	0.000	28788	0.2505	0.2547	
23 m-Nitrotoluene	1	13.885	13.885	0.000	37381	0.2503	0.2614	
24 PETN	2	14.965	14.965	0.000	212053	2.50	2.70	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

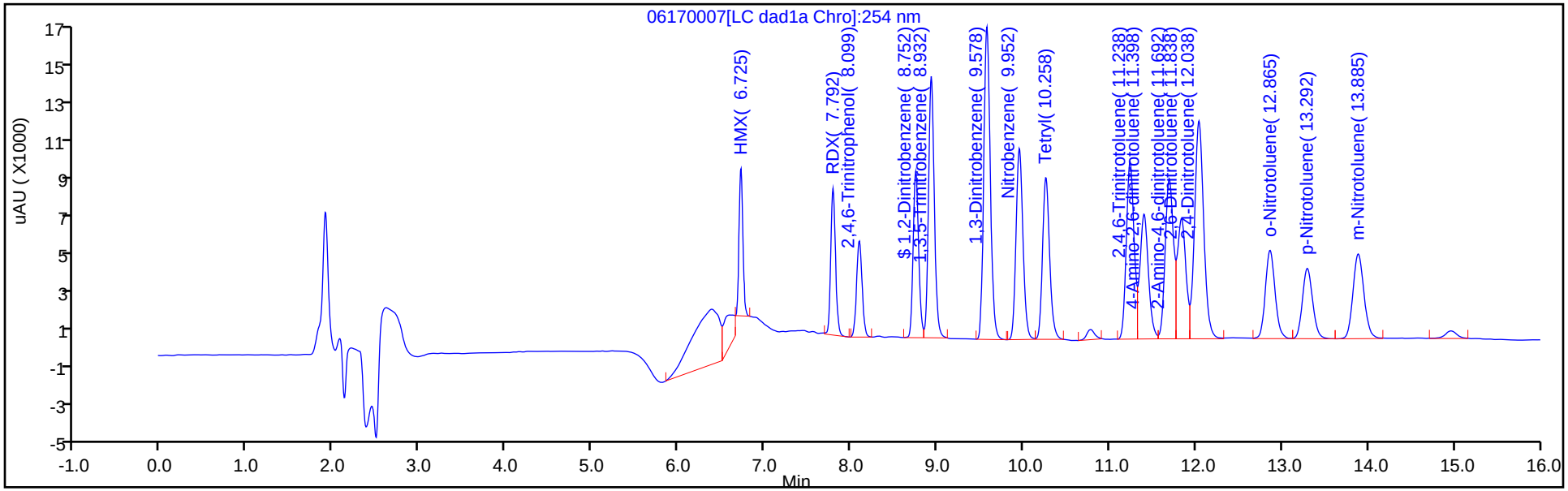
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 18-Jun-2020 20:45:56 Chrom Revision: 2.3 17-Jun-2020 19:07:08

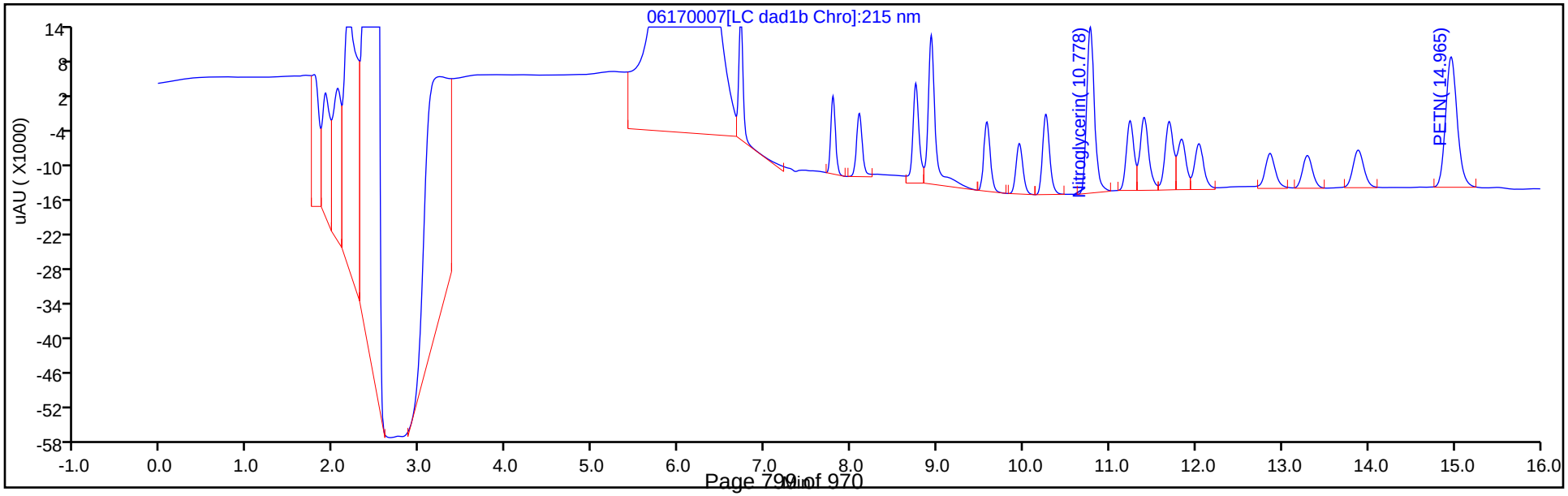
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170007.d				
Injection Date:	17-Jun-2020 18:02:53	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

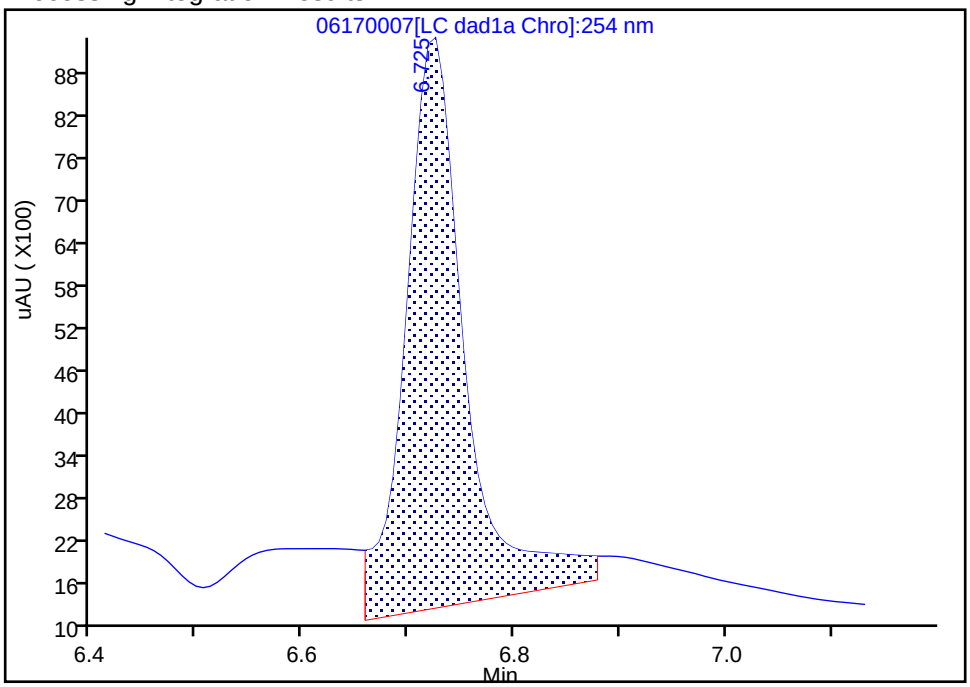
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170007.d				
Injection Date:	17-Jun-2020 18:02:53	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

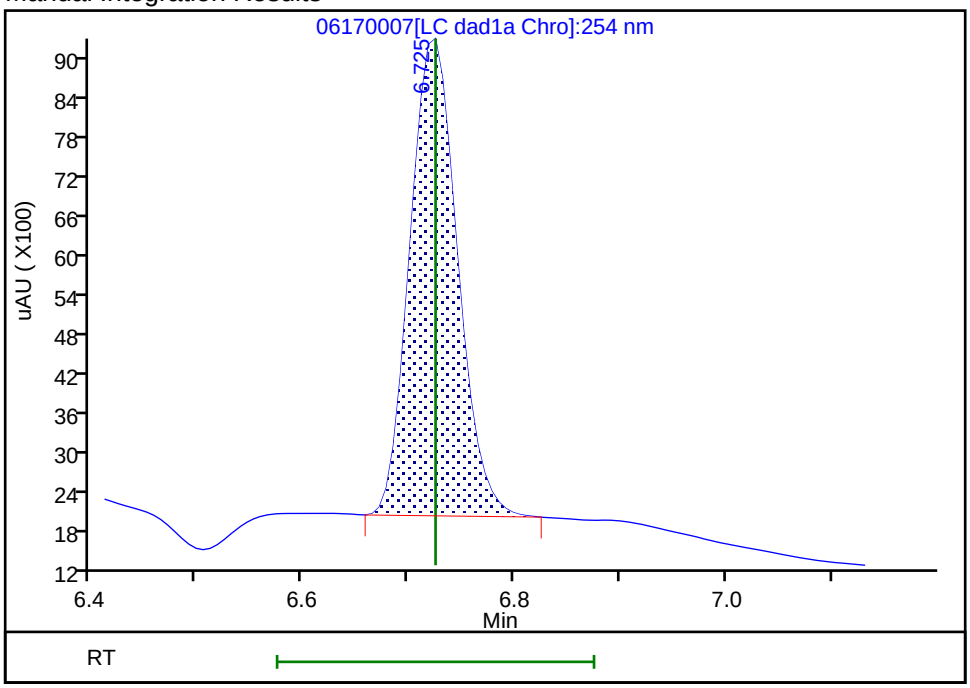
Processing Integration Results

RT: 6.73
Area: 31708
Amount: 0.368860
Amount Units: ug/mL



Manual Integration Results

RT: 6.73
Area: 22735
Amount: 0.264477
Amount Units: ug/mL



Reviewer: zhangji, 17-Jun-2020 19:07:01

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/9 Calibration Date: 06/17/2020 18:49

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06170009.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	213570		246	250	-1.9	15.0
DNX	Ave	152928	156268		256	250	2.2	15.0
MNX	Ave	158544	144353		266	292	-9.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/9 Calibration Date: 06/17/2020 18:49

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06170009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.63	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.40	7.25	7.55

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170009.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	17-Jun-2020 18:49:08	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092523-009				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:45:56	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 17-Jun-2020 19:19:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.626	6.626	0.000	53446	0.2503	0.2456	M
5 DNX	1	6.953	6.953	0.000	39106	0.2503	0.2557	M
6 MNX	1	7.400	7.400	0.000	42115	0.2918	0.2656	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

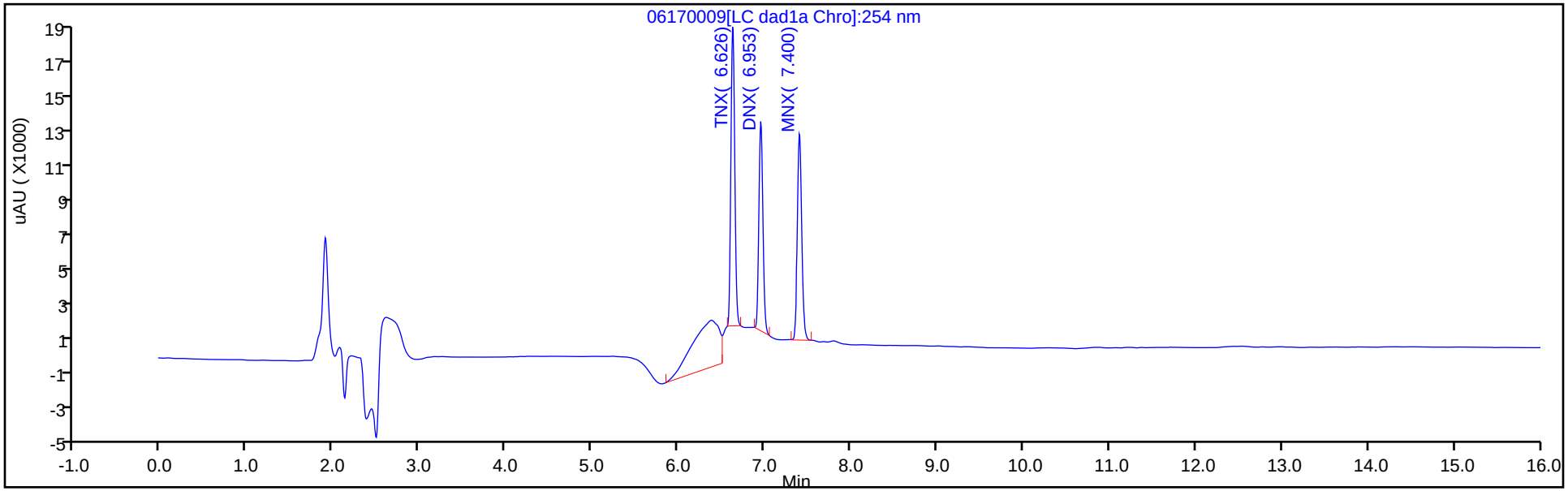
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 18-Jun-2020 20:45:57 Chrom Revision: 2.3 17-Jun-2020 19:07:08

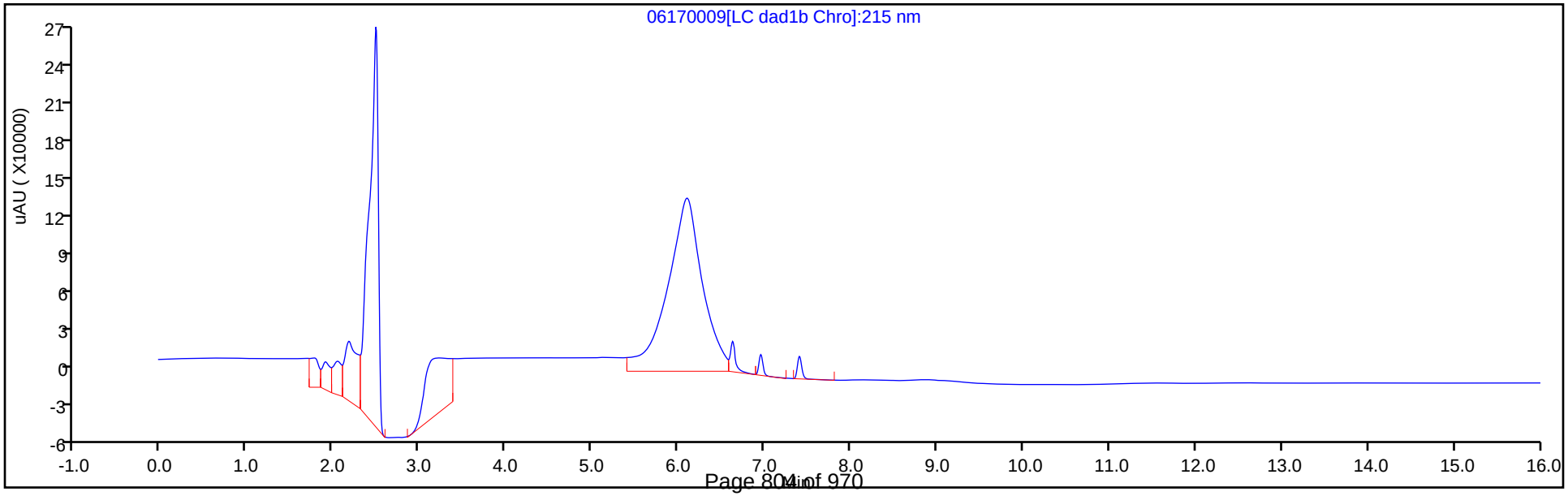
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170009.d				
Injection Date:	17-Jun-2020 18:49:08	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

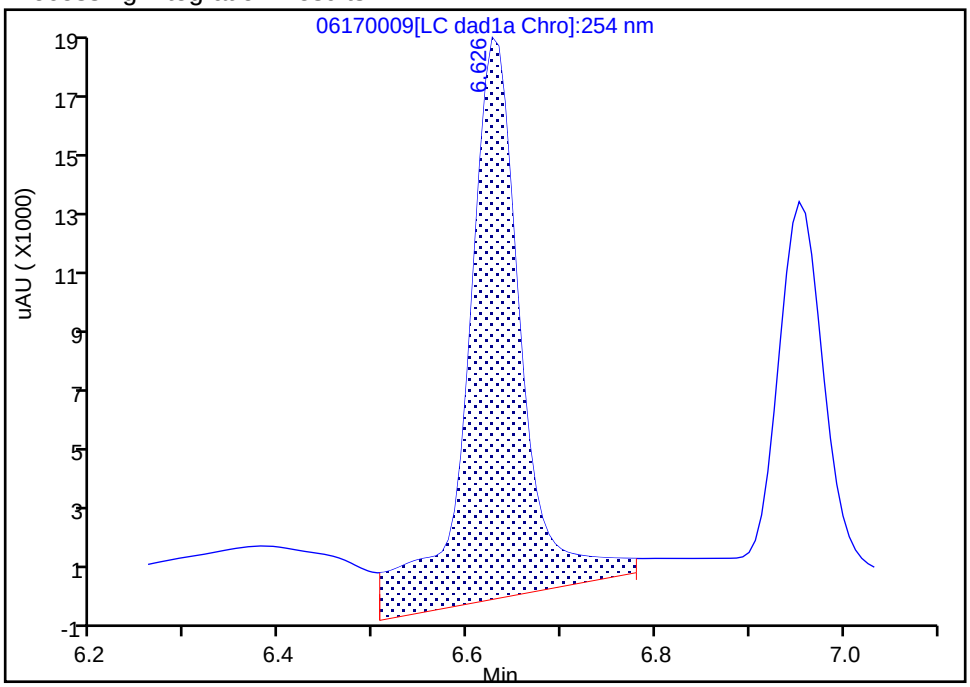
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170009.d				
Injection Date:	17-Jun-2020 18:49:08	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

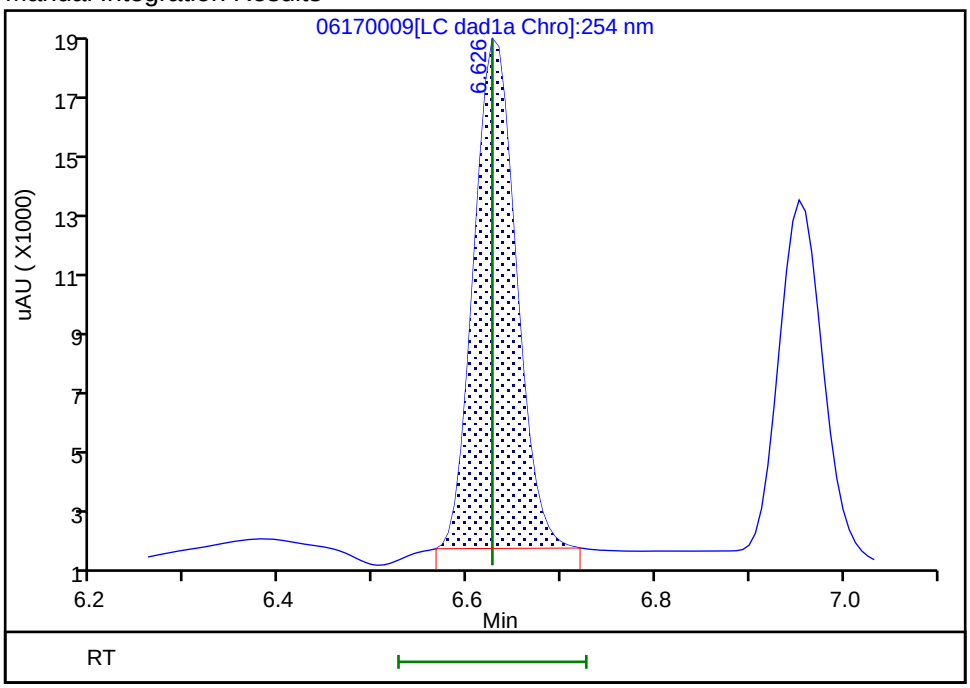
Processing Integration Results

RT: 6.63
Area: 74252
Amount: 0.341218
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 53446
Amount: 0.245606
Amount Units: ug/mL



Reviewer: zhangji, 17-Jun-2020 19:19:20

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

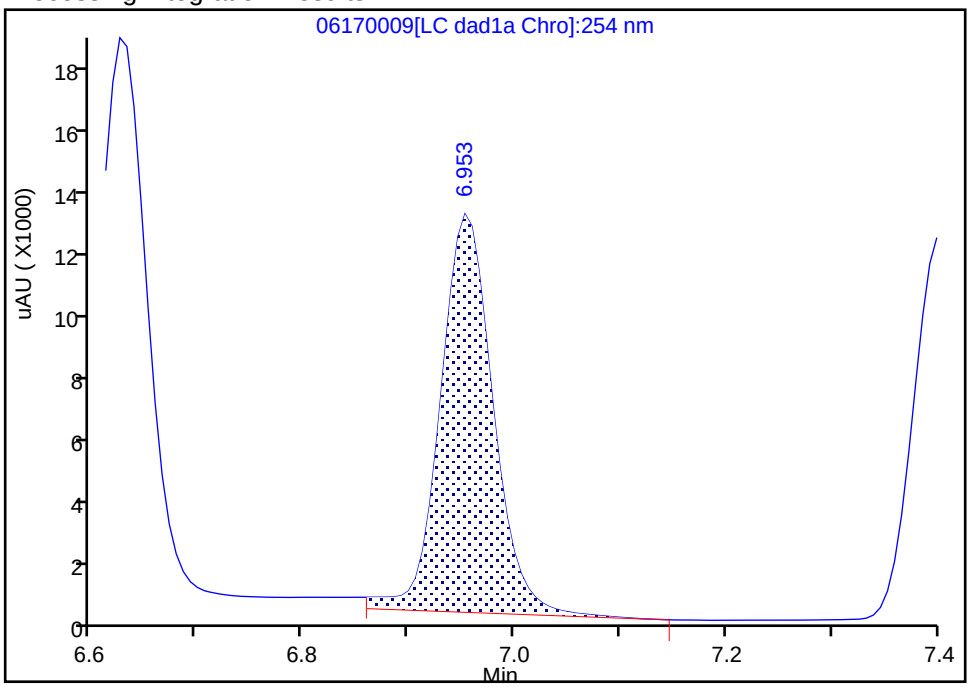
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170009.d				
Injection Date:	17-Jun-2020 18:49:08	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

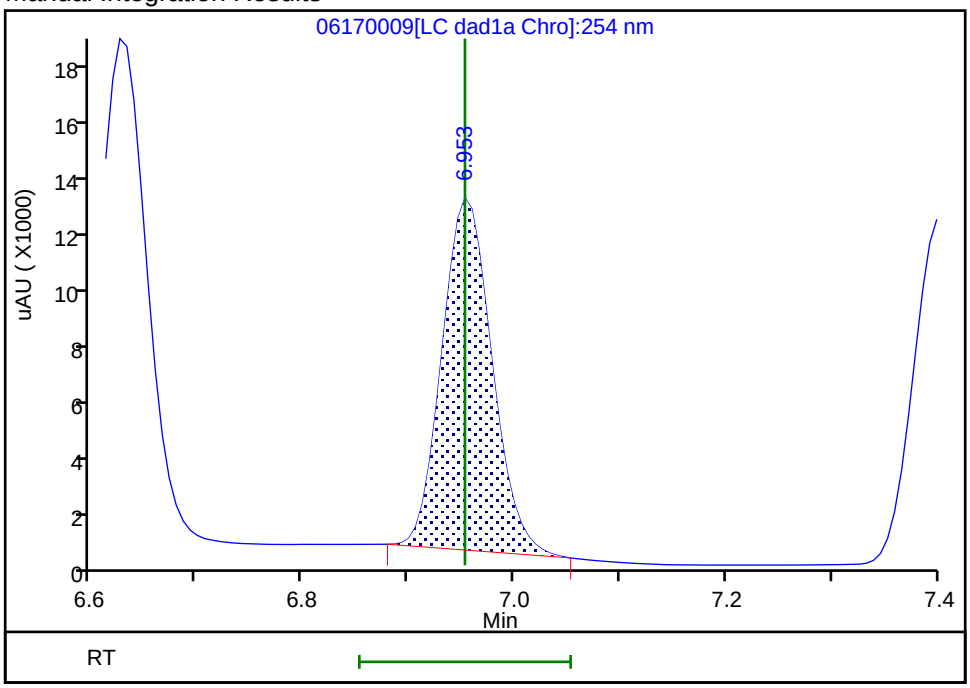
Processing Integration Results

RT: 6.95
Area: 42337
Amount: 0.276842
Amount Units: ug/mL



Manual Integration Results

RT: 6.95
Area: 39106
Amount: 0.255715
Amount Units: ug/mL



Reviewer: zhangji, 17-Jun-2020 19:19:24
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/14 Calibration Date: 06/17/2020 20:44

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170014.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	91260		265	250	6.2	15.0
RDX	Ave	116613	114044		244	250	-2.2	15.0
Picric acid	Ave	85131	86400		254	250	1.5	15.0
1,3,5-Trinitrobenzene	Ave	230309	242367		264	251	5.2	15.0
1,3-Dinitrobenzene	Ave	306686	325984		266	251	6.3	15.0
Nitrobenzene	Ave	200403	208096		261	251	3.8	15.0
Tetryl	Ave	177032	182383		258	251	3.0	15.0
Nitroglycerin	Ave	68133	74195		2720	2500	8.9	15.0
2,4,6-Trinitrotoluene	Ave	204031	217817		268	251	6.8	15.0
4-Amino-2,6-dinitrotoluene	Lin2		168400		243	250	-3.0	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	208773		258	251	2.9	15.0
2,6-Dinitrotoluene	Ave	149452	161426		271	251	8.0	15.0
2,4-Dinitrotoluene	Ave	303584	320363		265	251	5.5	15.0
2-Nitrotoluene	Ave	135051	133628		247	250	-1.1	15.0
4-Nitrotoluene	Ave	113005	116651		259	251	3.2	15.0
3-Nitrotoluene	Ave	143029	149558		262	250	4.6	15.0
PETN	Ave	78605	84402		2680	2500	7.4	15.0
1,2-Dinitrobenzene	Ave	138212	147576		267	250	6.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/14 Calibration Date: 06/17/2020 20:44

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170014.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	91260		265	250	6.2	15.0
RDX	Ave	116613	114044		244	250	-2.2	15.0
Picric acid	Ave	85131	86400		254	250	1.5	15.0
1,3,5-Trinitrobenzene	Ave	230309	242367		264	251	5.2	15.0
1,3-Dinitrobenzene	Ave	306686	325984		266	251	6.3	15.0
Nitrobenzene	Ave	200403	208096		261	251	3.8	15.0
Tetryl	Ave	177032	182383		258	251	3.0	15.0
Nitroglycerin	Ave	68133	74195		2720	2500	8.9	15.0
2,4,6-Trinitrotoluene	Ave	204031	217817		268	251	6.8	15.0
4-Amino-2,6-dinitrotoluene	Lin2		168400		243	250	-3.0	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	208773		258	251	2.9	15.0
2,6-Dinitrotoluene	Ave	149452	161426		271	251	8.0	15.0
2,4-Dinitrotoluene	Ave	303584	320363		265	251	5.5	15.0
2-Nitrotoluene	Ave	135051	133628		247	250	-1.1	15.0
4-Nitrotoluene	Ave	113005	116651		259	251	3.2	15.0
3-Nitrotoluene	Ave	143029	149558		262	250	4.6	15.0
PETN	Ave	78605	84402		2680	2500	7.4	15.0
1,2-Dinitrobenzene	Ave	138212	147576		267	250	6.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/14 Calibration Date: 06/17/2020 20:44

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170014.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.58	6.88
RDX	7.80	7.64	7.94
Picric acid	8.12	7.95	8.25
1,3,5-Trinitrobenzene	8.95	8.78	9.08
1,3-Dinitrobenzene	9.61	9.43	9.73
Nitrobenzene	9.99	9.80	10.10
Tetryl	10.30	10.11	10.41
Nitroglycerin	10.82	10.63	10.93
2,4,6-Trinitrotoluene	11.26	11.14	11.34
4-Amino-2,6-dinitrotoluene	11.43	11.30	11.50
2-Amino-4,6-dinitrotoluene	11.72	11.59	11.79
2,6-Dinitrotoluene	11.85	11.74	11.94
2,4-Dinitrotoluene	12.05	11.94	12.14
2-Nitrotoluene	12.86	12.72	13.02
4-Nitrotoluene	13.30	13.14	13.44
3-Nitrotoluene	13.90	13.74	14.04
PETN	15.00	14.82	15.12
1,2-Dinitrobenzene	8.78	8.60	8.90

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/14 Calibration Date: 06/17/2020 20:44

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170014.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.58	6.88
RDX	7.80	7.64	7.94
Picric acid	8.12	7.95	8.25
1,3,5-Trinitrobenzene	8.95	8.78	9.08
1,3-Dinitrobenzene	9.61	9.43	9.73
Nitrobenzene	9.99	9.80	10.10
Tetryl	10.30	10.11	10.41
Nitroglycerin	10.82	10.63	10.93
2,4,6-Trinitrotoluene	11.26	11.14	11.34
4-Amino-2,6-dinitrotoluene	11.43	11.30	11.50
2-Amino-4,6-dinitrotoluene	11.72	11.59	11.79
2,6-Dinitrotoluene	11.85	11.74	11.94
2,4-Dinitrotoluene	12.05	11.94	12.14
2-Nitrotoluene	12.86	12.72	13.02
4-Nitrotoluene	13.30	13.14	13.44
3-Nitrotoluene	13.90	13.74	14.04
PETN	15.00	14.82	15.12
1,2-Dinitrobenzene	8.78	8.60	8.90

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170014.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 17-Jun-2020 20:44:10 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092523-014
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:45:58 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 17-Jun-2020 21:16:50

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.715	6.725	-0.010	22815	0.2500	0.2654	M
7 RDX	1	7.802	7.792	0.010	28511	0.2500	0.2445	
8 2,4,6-Trinitrophenol	1	8.115	8.099	0.016	21600	0.2500	0.2537	
$ 9 1,2-Dinitrobenzene	1	8.775	8.752	0.023	36894	0.2500	0.2669	
10 1,3,5-Trinitrobenzene	1	8.948	8.932	0.016	60713	0.2505	0.2636	
11 1,3-Dinitrobenzene	1	9.608	9.578	0.030	81659	0.2505	0.2663	
12 Nitrobenzene	1	9.988	9.952	0.036	52232	0.2510	0.2606	
14 Tetryl	1	10.301	10.258	0.043	45687	0.2505	0.2581	
15 Nitroglycerin	2	10.815	10.778	0.037	185487	2.50	2.72	
16 2,4,6-Trinitrotoluene	1	11.261	11.238	0.023	54672	0.2510	0.2680	
17 4-Amino-2,6-dinitrotoluene	1	11.428	11.398	0.030	42142	0.2503	0.2428	
18 2-Amino-4,6-dinitrotoluene	1	11.715	11.692	0.023	52402	0.2510	0.2584	
19 2,6-Dinitrotoluene	1	11.848	11.838	0.010	40518	0.2510	0.2711	
20 2,4-Dinitrotoluene	1	12.048	12.038	0.010	80411	0.2510	0.2649	
21 o-Nitrotoluene	1	12.861	12.865	-0.004	33407	0.2500	0.2474	
22 p-Nitrotoluene	1	13.301	13.292	0.009	29221	0.2505	0.2586	
23 m-Nitrotoluene	1	13.895	13.885	0.010	37427	0.2503	0.2617	
24 PETN	2	14.995	14.965	0.030	211006	2.50	2.68	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170014.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 17-Jun-2020 20:44:10 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092523-014
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:45:58 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 17-Jun-2020 21:16:50

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.715	6.725	-0.010	22815	0.2500	0.2654	M
7 RDX	1	7.802	7.792	0.010	28511	0.2500	0.2445	
8 2,4,6-Trinitrophenol	1	8.115	8.099	0.016	21600	0.2500	0.2537	
$ 9 1,2-Dinitrobenzene	1	8.775	8.752	0.023	36894	0.2500	0.2669	
10 1,3,5-Trinitrobenzene	1	8.948	8.932	0.016	60713	0.2505	0.2636	
11 1,3-Dinitrobenzene	1	9.608	9.578	0.030	81659	0.2505	0.2663	
12 Nitrobenzene	1	9.988	9.952	0.036	52232	0.2510	0.2606	
14 Tetryl	1	10.301	10.258	0.043	45687	0.2505	0.2581	
15 Nitroglycerin	2	10.815	10.778	0.037	185487	2.50	2.72	
16 2,4,6-Trinitrotoluene	1	11.261	11.238	0.023	54672	0.2510	0.2680	
17 4-Amino-2,6-dinitrotoluene	1	11.428	11.398	0.030	42142	0.2503	0.2428	
18 2-Amino-4,6-dinitrotoluene	1	11.715	11.692	0.023	52402	0.2510	0.2584	
19 2,6-Dinitrotoluene	1	11.848	11.838	0.010	40518	0.2510	0.2711	
20 2,4-Dinitrotoluene	1	12.048	12.038	0.010	80411	0.2510	0.2649	
21 o-Nitrotoluene	1	12.861	12.865	-0.004	33407	0.2500	0.2474	
22 p-Nitrotoluene	1	13.301	13.292	0.009	29221	0.2505	0.2586	
23 m-Nitrotoluene	1	13.895	13.885	0.010	37427	0.2503	0.2617	
24 PETN	2	14.995	14.965	0.030	211006	2.50	2.68	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

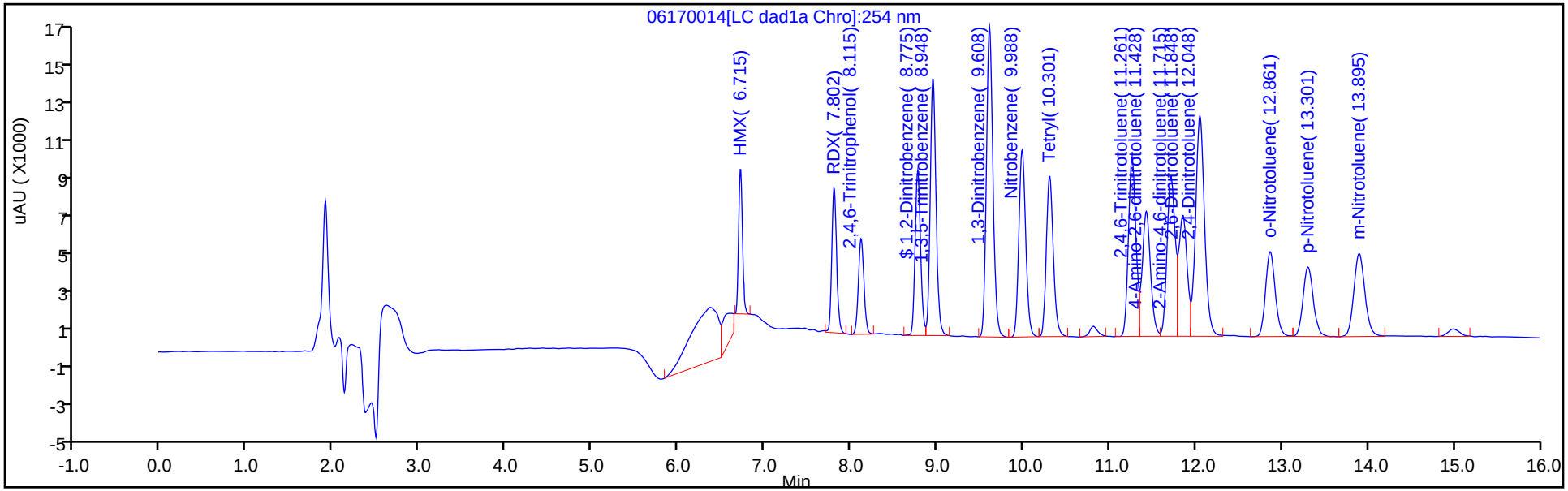
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 18-Jun-2020 20:45:59 Chrom Revision: 2.3 17-Jun-2020 19:07:08

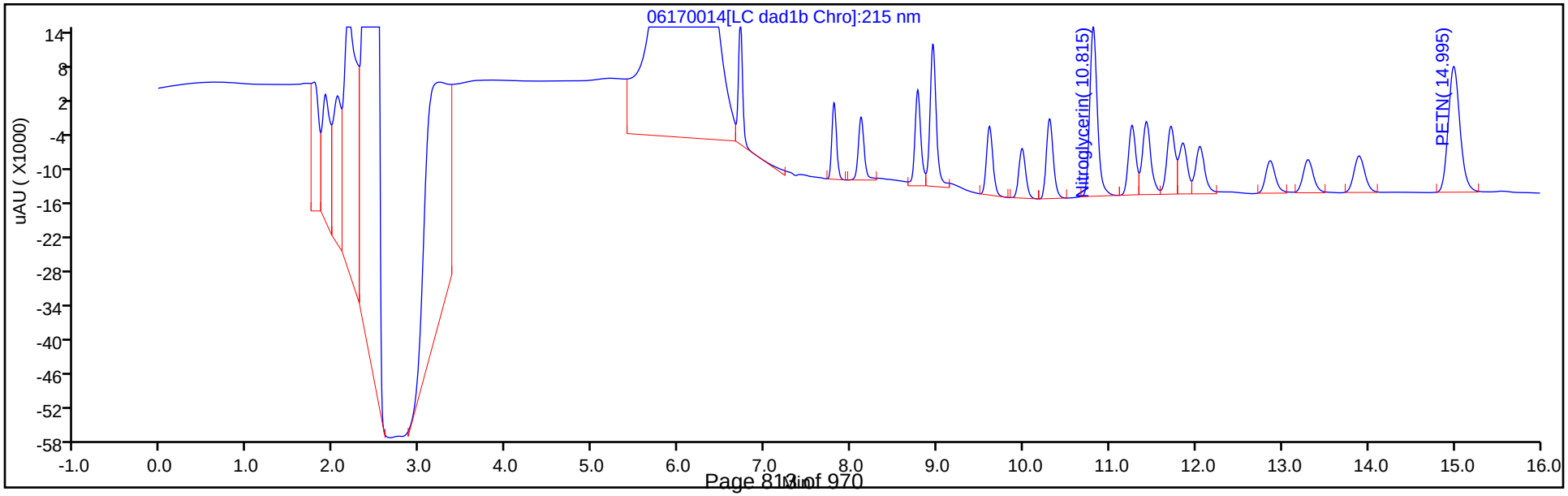
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170014.d				
Injection Date:	17-Jun-2020 20:44:10	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	14
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

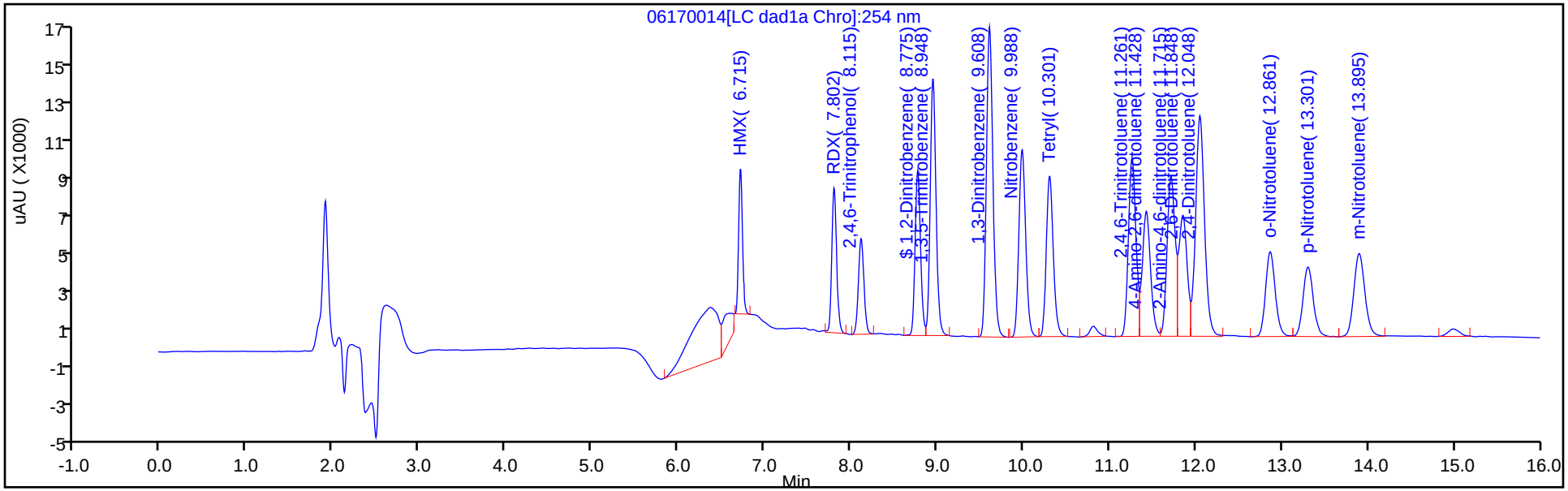


Report Date: 18-Jun-2020 20:45:58 Chrom Revision: 2.3 17-Jun-2020 19:07:08

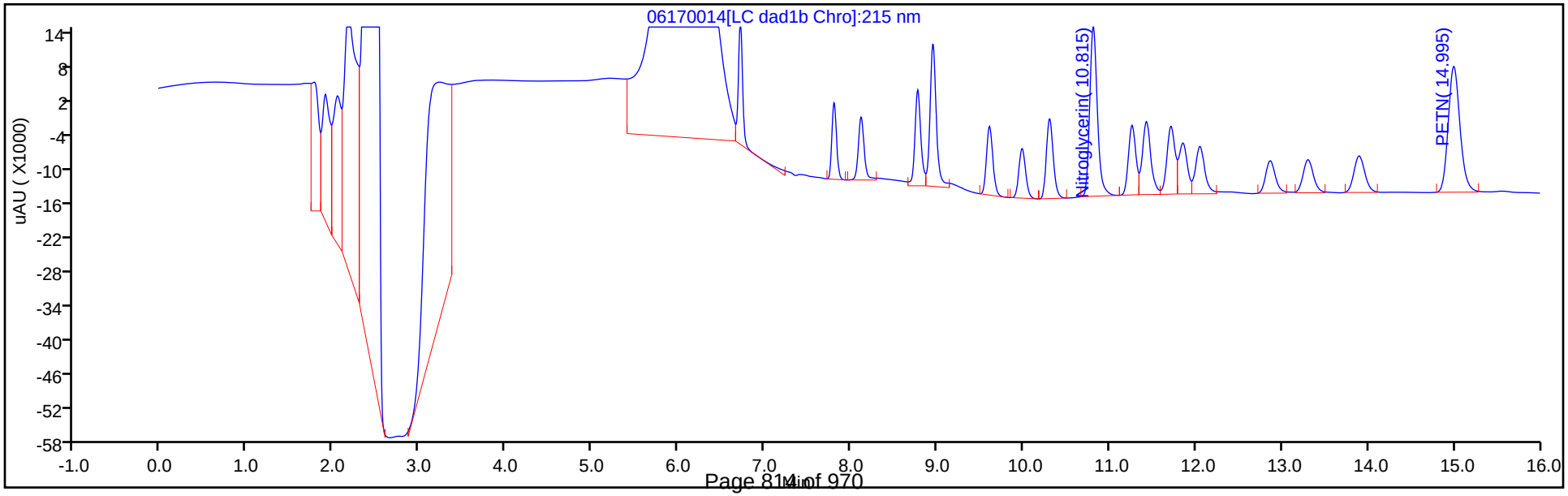
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170014.d				
Injection Date:	17-Jun-2020 20:44:10	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	14
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

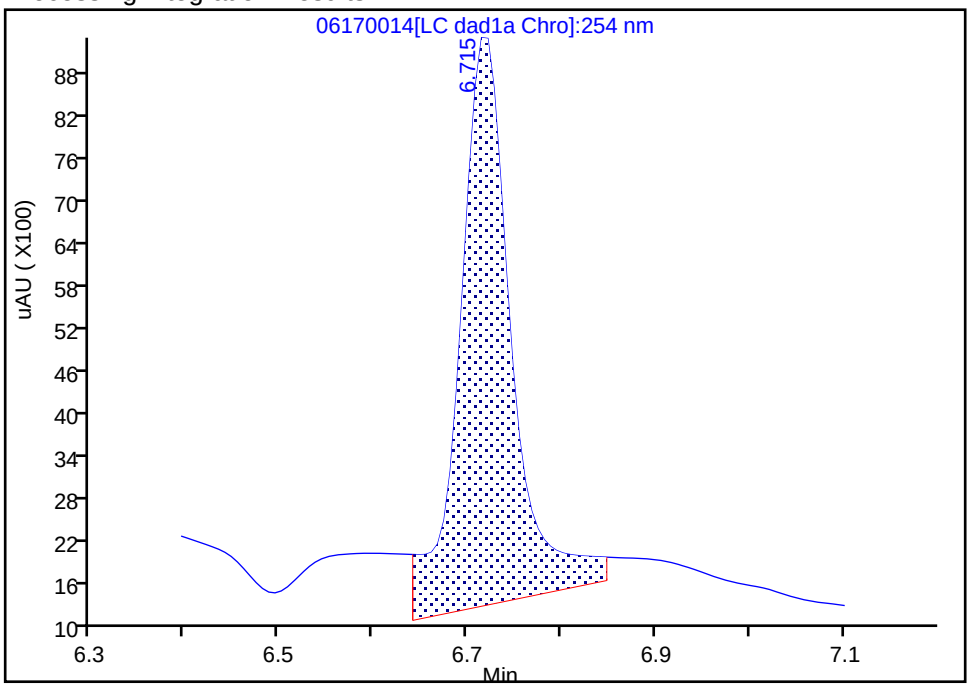
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170014.d				
Injection Date:	17-Jun-2020 20:44:10	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

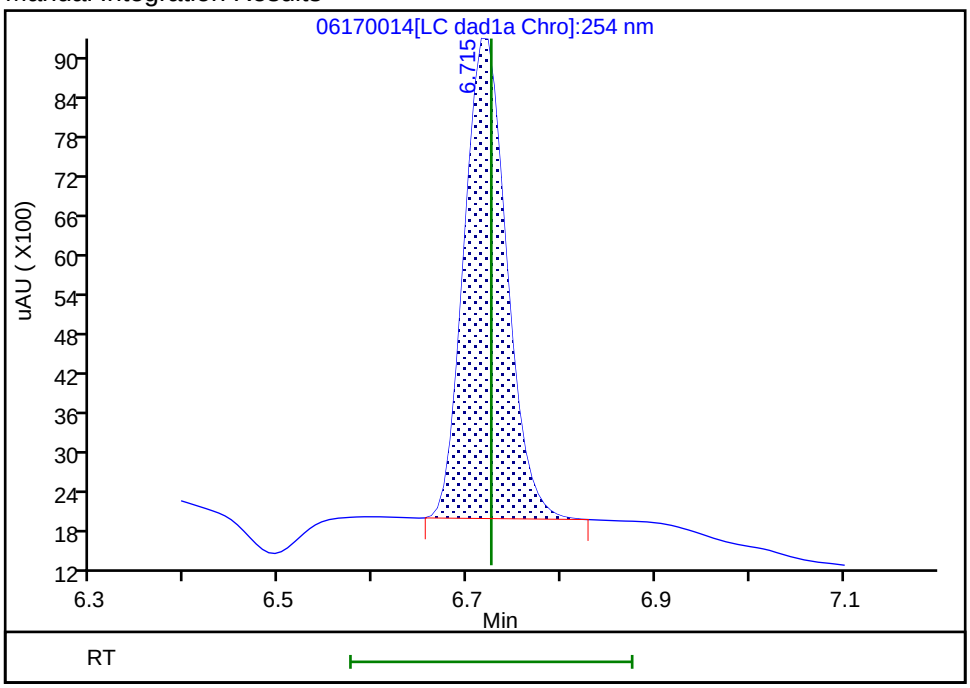
Processing Integration Results

RT: 6.71
Area: 30638
Amount: 0.356413
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 22815
Amount: 0.265407
Amount Units: ug/mL



Reviewer: zhangji, 17-Jun-2020 21:16:47
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

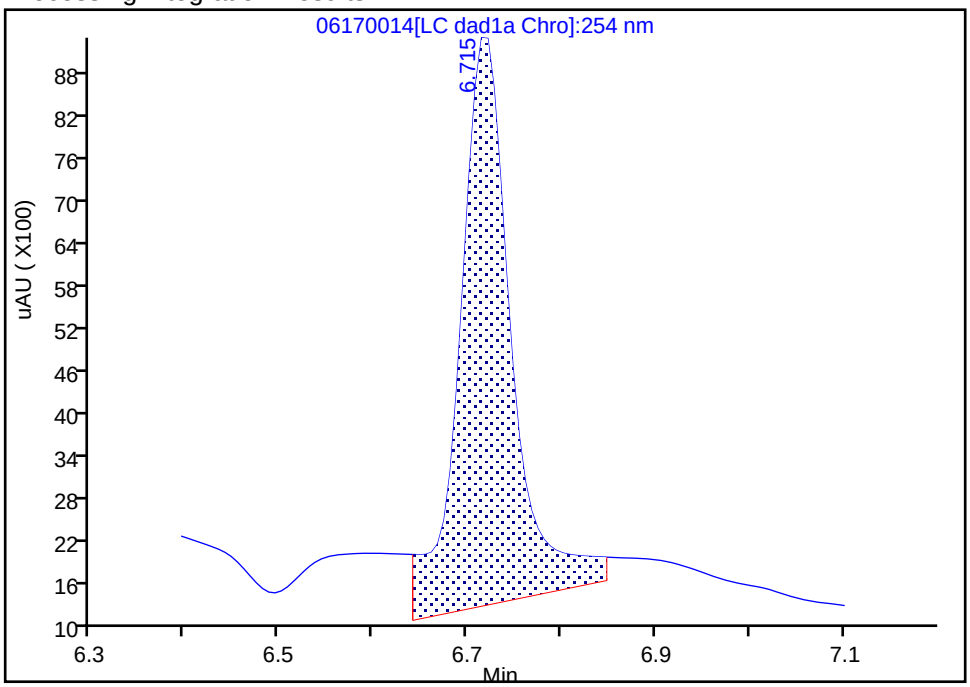
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170014.d				
Injection Date:	17-Jun-2020 20:44:10	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

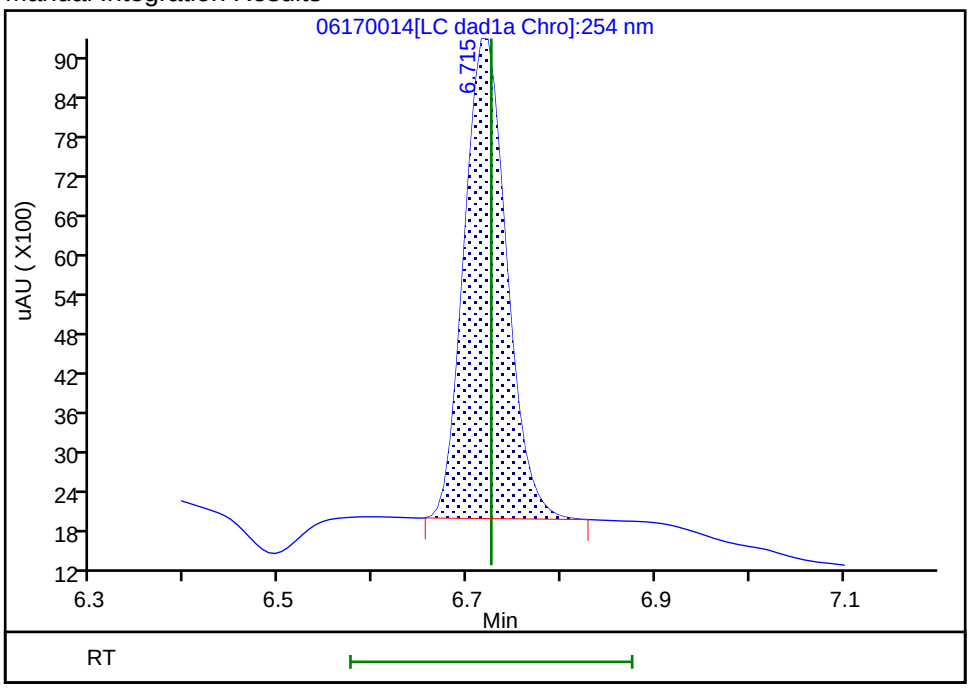
Processing Integration Results

RT: 6.71
Area: 30638
Amount: 0.356413
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 22815
Amount: 0.265407
Amount Units: ug/mL



Reviewer: zhangji, 17-Jun-2020 21:16:47
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/15 Calibration Date: 06/17/2020 21:53

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 009-1501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	209475		241	250	-3.7	15.0
DNX	Ave	152928	154849		253	250	1.3	15.0
MNX	Ave	158544	143997		265	292	-9.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/15 Calibration Date: 06/17/2020 21:53

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 009-1501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	209475		241	250	-3.7	15.0
DNX	Ave	152928	154849		253	250	1.3	15.0
MNX	Ave	158544	143997		265	292	-9.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499164/15 Calibration Date: 06/17/2020 21:53

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 009-1501.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.63	6.53	6.73
DNX	6.96	6.85	7.05
MNX	7.40	7.25	7.55

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/15 Calibration Date: 06/17/2020 21:53

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 009-1501.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.63	6.53	6.73
DNX	6.96	6.85	7.05
MNX	7.40	7.25	7.55

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\009-1501.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	17-Jun-2020 21:53:31	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092523-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 14:10:43

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.630	6.626	0.004	52421	0.2503	0.2409	M
5 DNX	1	6.957	6.953	0.004	38751	0.2503	0.2534	M
6 MNX	1	7.397	7.400	-0.003	42011	0.2918	0.2650	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\009-1501.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	17-Jun-2020 21:53:31	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092523-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 14:10:43

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.630	6.626	0.004	52421	0.2503	0.2409	M
5 DNX	1	6.957	6.953	0.004	38751	0.2503	0.2534	M
6 MNX	1	7.397	7.400	-0.003	42011	0.2918	0.2650	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

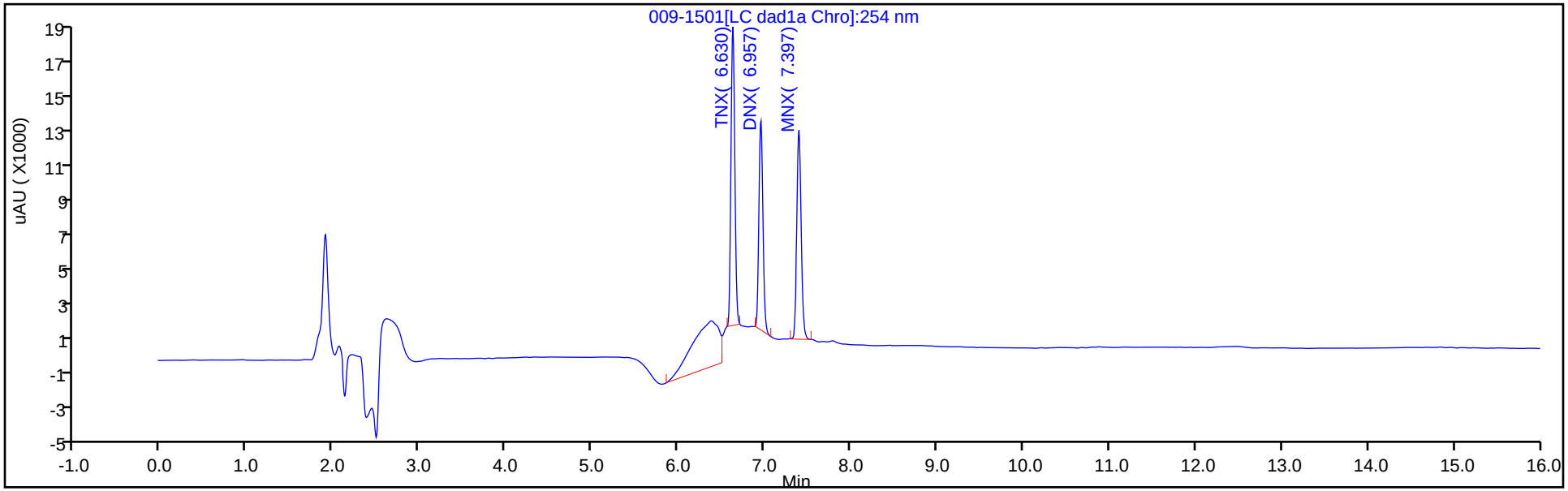
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 18-Jun-2020 20:46:00 Chrom Revision: 2.3 17-Jun-2020 19:07:08

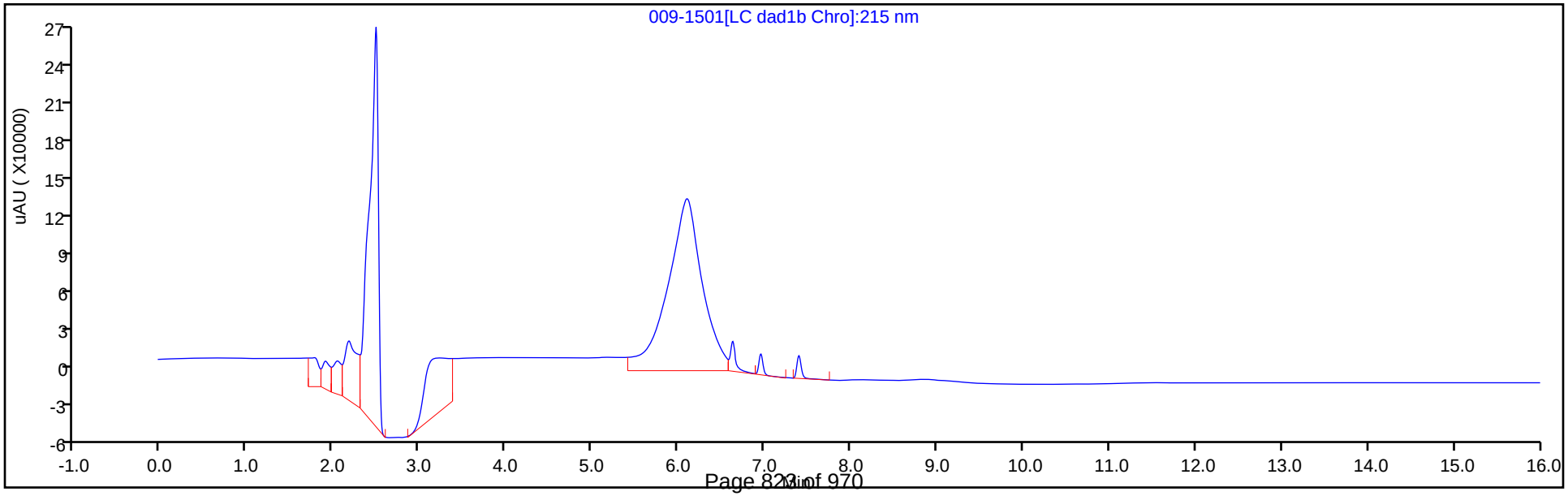
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\009-1501.d				
Injection Date:	17-Jun-2020 21:53:31	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	15
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

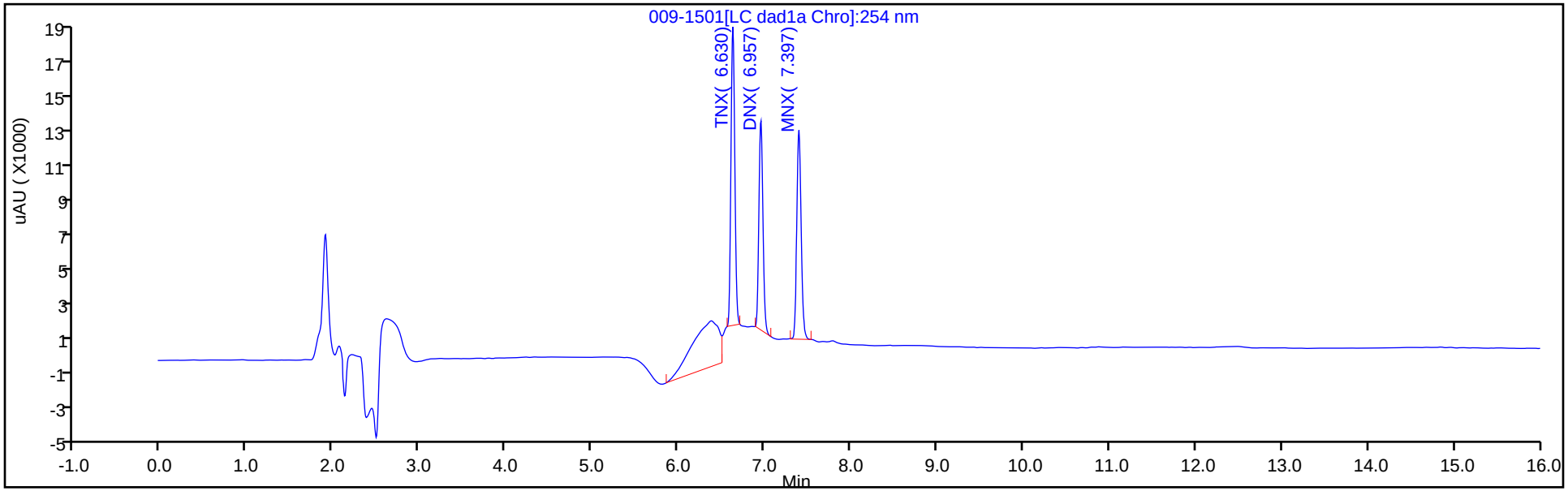


Report Date: 18-Jun-2020 20:46:00 Chrom Revision: 2.3 17-Jun-2020 19:07:08

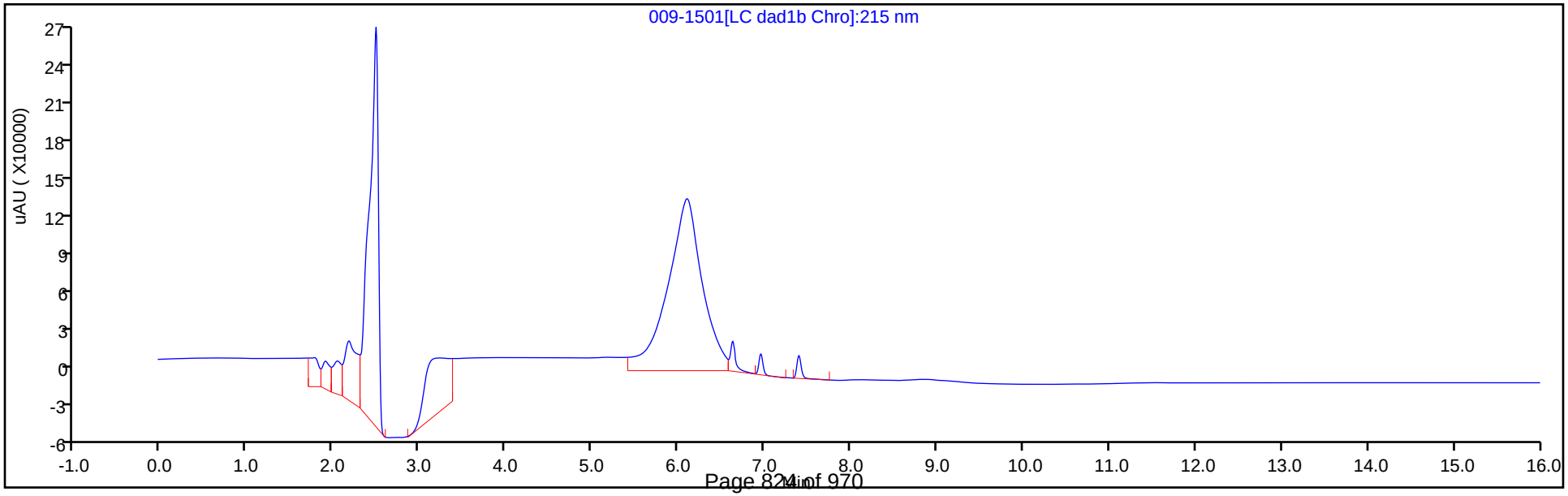
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\009-1501.d				
Injection Date:	17-Jun-2020 21:53:31	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	15
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

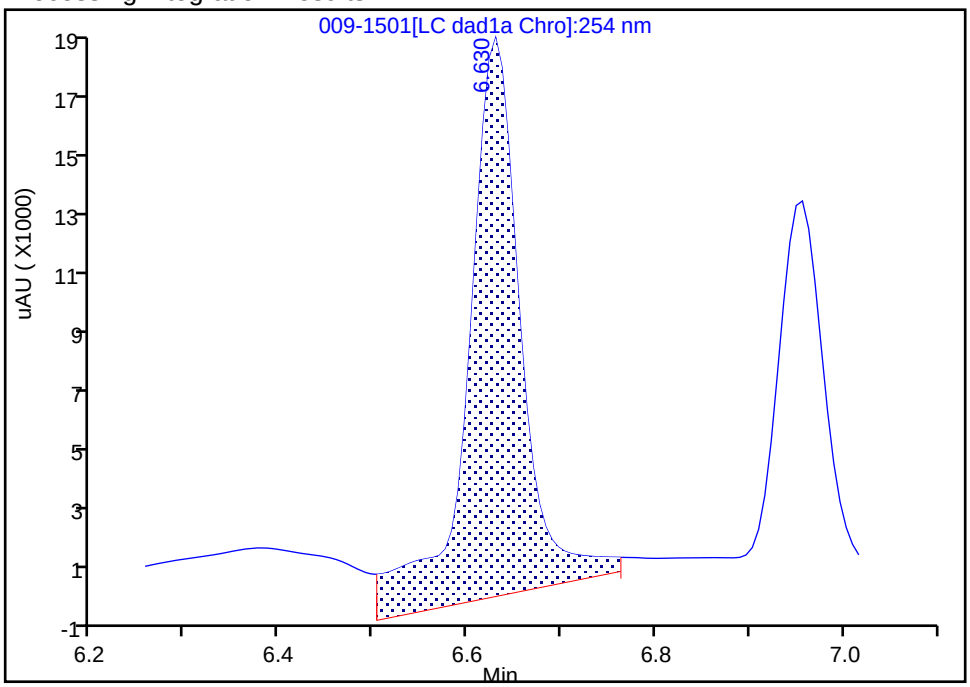
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\009-1501.d				
Injection Date:	17-Jun-2020 21:53:31	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

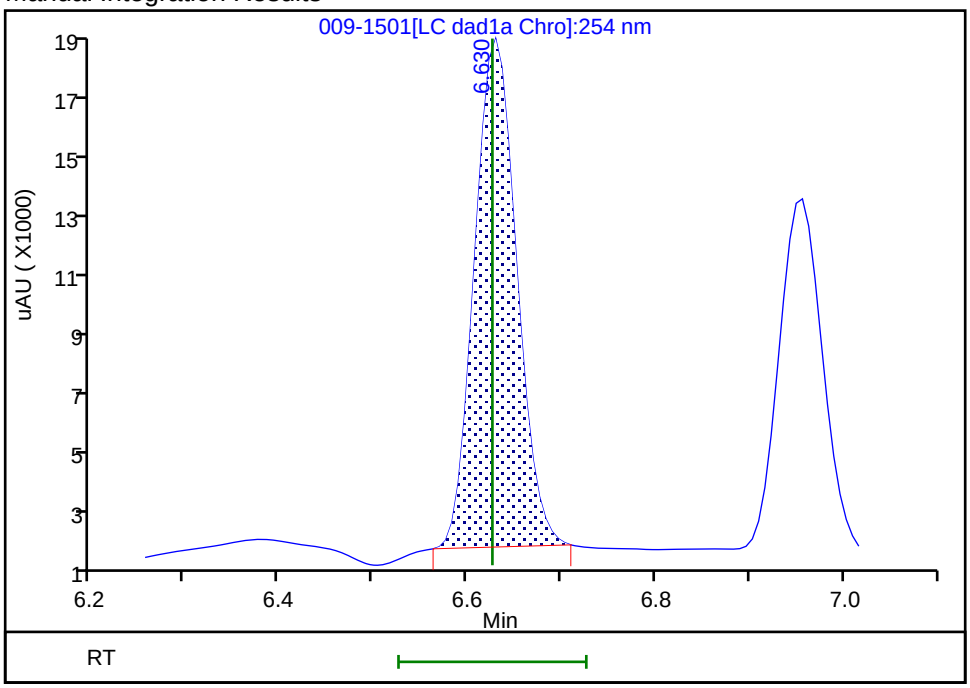
Processing Integration Results

RT: 6.63
Area: 71610
Amount: 0.329077
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 52421
Amount: 0.240896
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 14:10:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

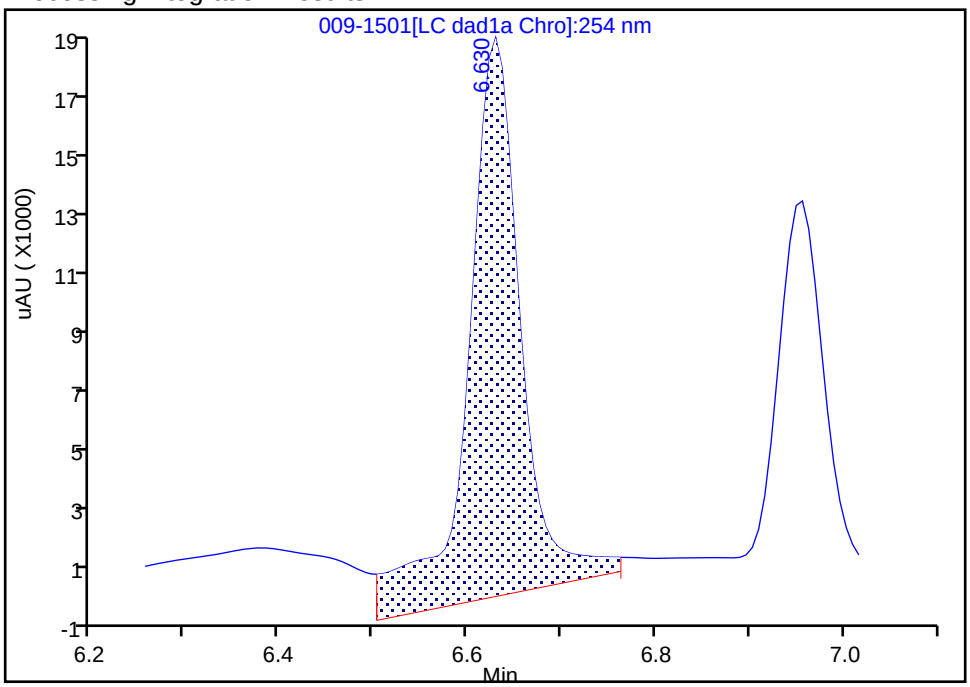
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\009-1501.d				
Injection Date:	17-Jun-2020 21:53:31	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

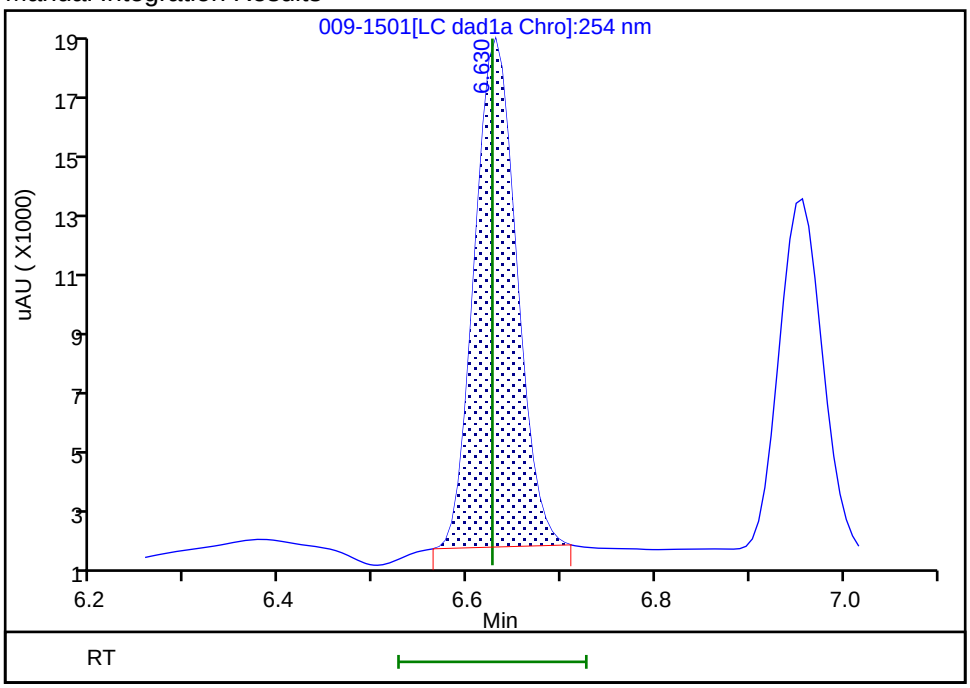
Processing Integration Results

RT: 6.63
Area: 71610
Amount: 0.329077
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 52421
Amount: 0.240896
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 14:10:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

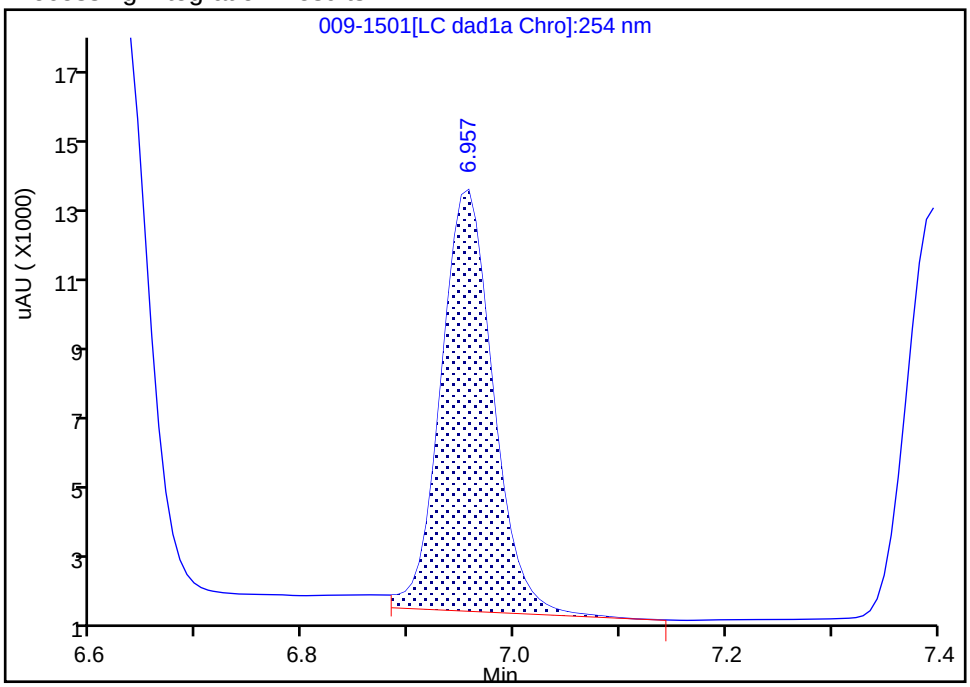
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\009-1501.d				
Injection Date:	17-Jun-2020 21:53:31	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

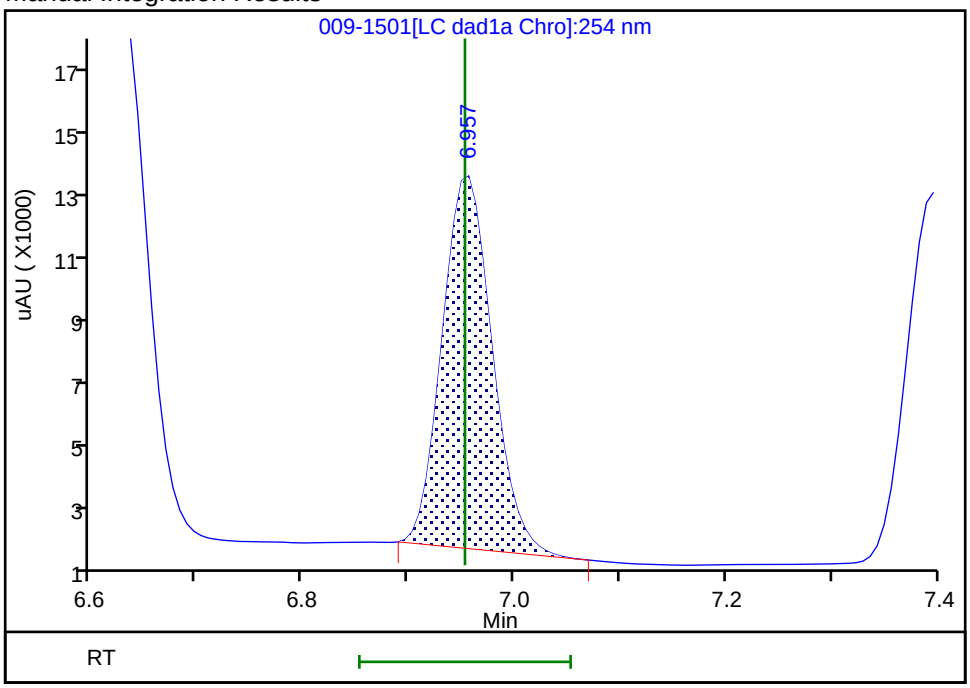
Processing Integration Results

RT: 6.96
Area: 41405
Amount: 0.270748
Amount Units: ug/mL



Manual Integration Results

RT: 6.96
Area: 38751
Amount: 0.253393
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 14:10:41

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

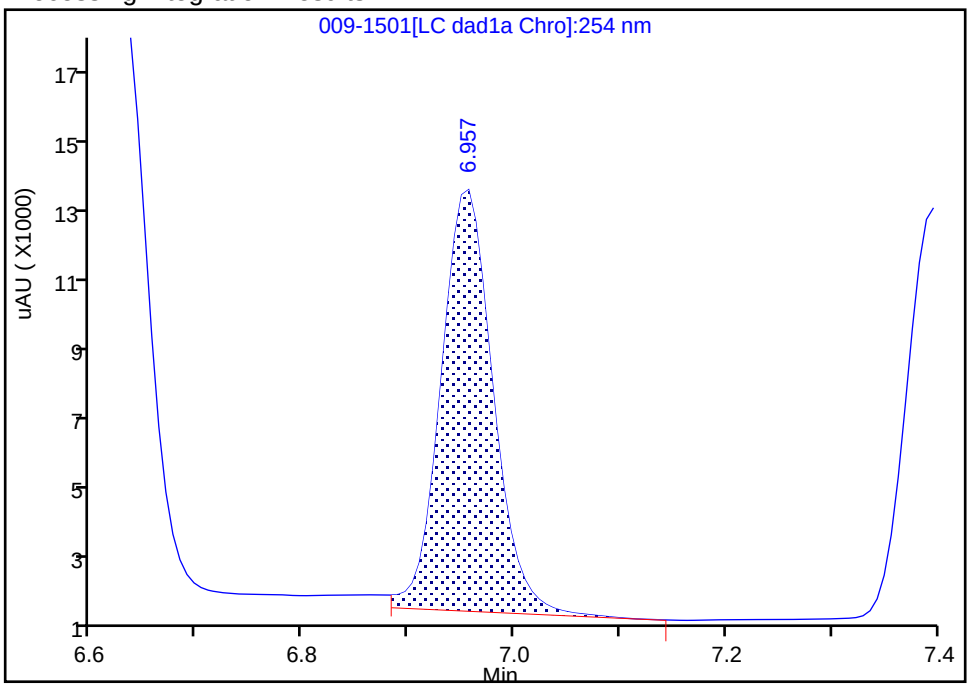
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\009-1501.d				
Injection Date:	17-Jun-2020 21:53:31	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

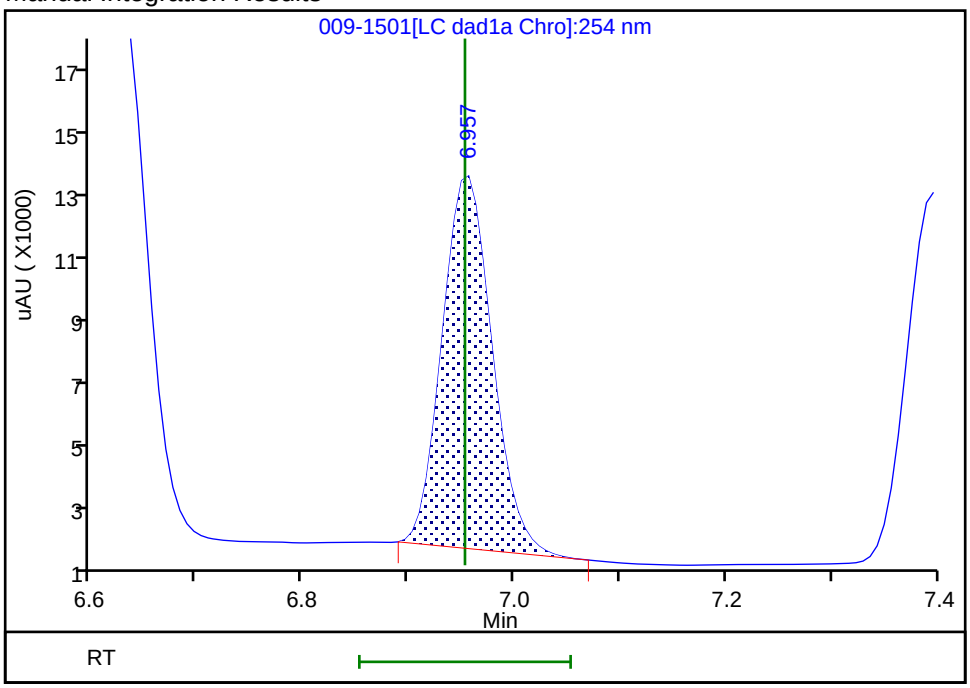
Processing Integration Results

RT: 6.96
Area: 41405
Amount: 0.270748
Amount Units: ug/mL



Manual Integration Results

RT: 6.96
Area: 38751
Amount: 0.253393
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 14:10:41
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/26 Calibration Date: 06/18/2020 02:06

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	93288		271	250	8.5	15.0
RDX	Ave	116613	113456		243	250	-2.7	15.0
Picric acid	Ave	85131	85492		251	250	0.4	15.0
1,3,5-Trinitrobenzene	Ave	230309	244782		266	251	6.3	15.0
1,3-Dinitrobenzene	Ave	306686	327082		267	251	6.7	15.0
Nitrobenzene	Ave	200403	204936		257	251	2.3	15.0
Tetryl	Ave	177032	187058		265	251	5.7	15.0
Nitroglycerin	Ave	68133	73291		2690	2500	7.6	15.0
2,4,6-Trinitrotoluene	Ave	204031	222231		273	251	8.9	15.0
4-Amino-2,6-dinitrotoluene	Lin2		167221		241	250	-3.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	213777		265	251	5.4	15.0
2,6-Dinitrotoluene	Ave	149452	161032		270	251	7.7	15.0
2,4-Dinitrotoluene	Ave	303584	321534		266	251	5.9	15.0
2-Nitrotoluene	Ave	135051	133216		247	250	-1.4	15.0
4-Nitrotoluene	Ave	113005	115960		257	251	2.6	15.0
3-Nitrotoluene	Ave	143029	147145		257	250	2.9	15.0
PETN	Ave	78605	84214		2680	2500	7.1	15.0
1,2-Dinitrobenzene	Ave	138212	147048		266	250	6.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/26 Calibration Date: 06/18/2020 02:06

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06170026.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.58	6.88
RDX	7.80	7.64	7.94
Picric acid	8.11	7.95	8.25
1,3,5-Trinitrobenzene	8.95	8.78	9.08
1,3-Dinitrobenzene	9.60	9.43	9.73
Nitrobenzene	9.98	9.80	10.10
Tetryl	10.30	10.11	10.41
Nitroglycerin	10.81	10.63	10.93
2,4,6-Trinitrotoluene	11.28	11.14	11.34
4-Amino-2,6-dinitrotoluene	11.45	11.30	11.50
2-Amino-4,6-dinitrotoluene	11.74	11.59	11.79
2,6-Dinitrotoluene	11.88	11.74	11.94
2,4-Dinitrotoluene	12.08	11.94	12.14
2-Nitrotoluene	12.91	12.72	13.02
4-Nitrotoluene	13.35	13.14	13.44
3-Nitrotoluene	13.94	13.74	14.04
PETN	15.05	14.82	15.12
1,2-Dinitrobenzene	8.77	8.60	8.90

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170026.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 18-Jun-2020 02:06:35 ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092523-026
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:08 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:50:28

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.721	6.725	-0.004	23322	0.2500	0.2713	
7 RDX	1	7.801	7.792	0.009	28364	0.2500	0.2432	
8 2,4,6-Trinitrophenol	1	8.114	8.099	0.015	21373	0.2500	0.2511	
$ 9 1,2-Dinitrobenzene	1	8.767	8.752	0.015	36762	0.2500	0.2660	
10 1,3,5-Trinitrobenzene	1	8.947	8.932	0.015	61318	0.2505	0.2662	
11 1,3-Dinitrobenzene	1	9.600	9.578	0.022	81934	0.2505	0.2672	
12 Nitrobenzene	1	9.980	9.952	0.028	51439	0.2510	0.2567	M
14 Tetryl	1	10.300	10.258	0.042	46858	0.2505	0.2647	
15 Nitroglycerin	2	10.814	10.778	0.036	183227	2.50	2.69	
16 2,4,6-Trinitrotoluene	1	11.280	11.238	0.042	55780	0.2510	0.2734	
17 4-Amino-2,6-dinitrotoluene	1	11.454	11.398	0.056	41847	0.2503	0.2411	
18 2-Amino-4,6-dinitrotoluene	1	11.740	11.692	0.048	53658	0.2510	0.2646	
19 2,6-Dinitrotoluene	1	11.880	11.838	0.042	40419	0.2510	0.2704	
20 2,4-Dinitrotoluene	1	12.080	12.038	0.042	80705	0.2510	0.2658	
21 o-Nitrotoluene	1	12.907	12.865	0.042	33304	0.2500	0.2466	
22 p-Nitrotoluene	1	13.347	13.292	0.055	29048	0.2505	0.2571	
23 m-Nitrotoluene	1	13.940	13.885	0.055	36823	0.2503	0.2575	
24 PETN	2	15.054	14.965	0.089	210534	2.50	2.68	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

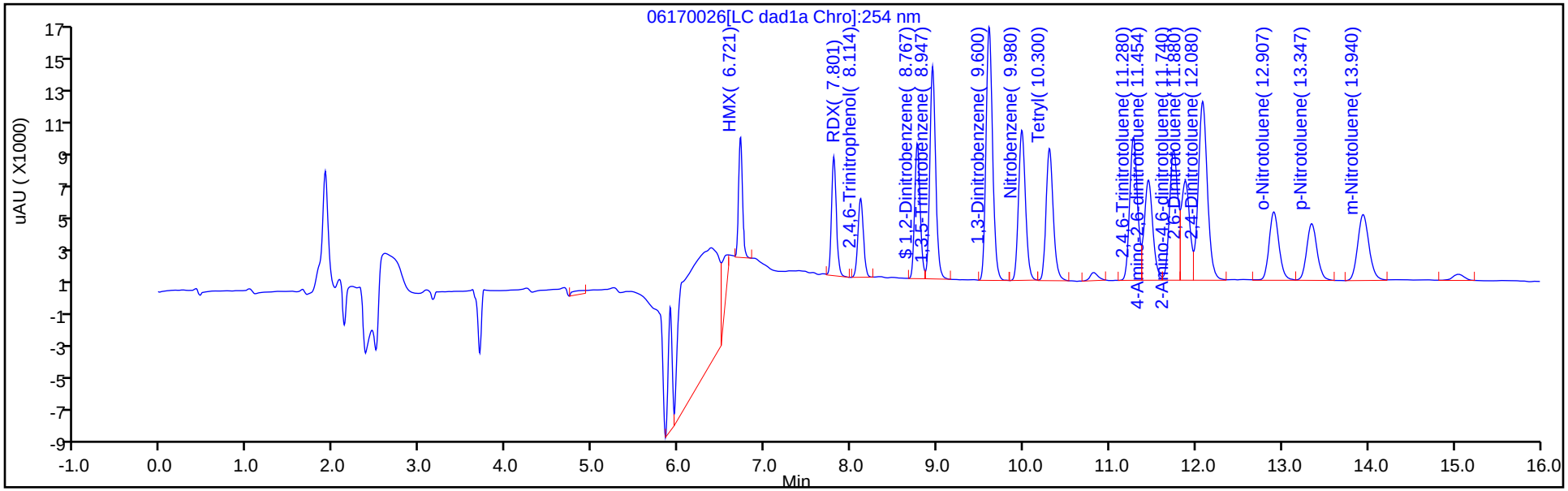
8330IntermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 18-Jun-2020 20:46:08 Chrom Revision: 2.3 17-Jun-2020 19:07:08

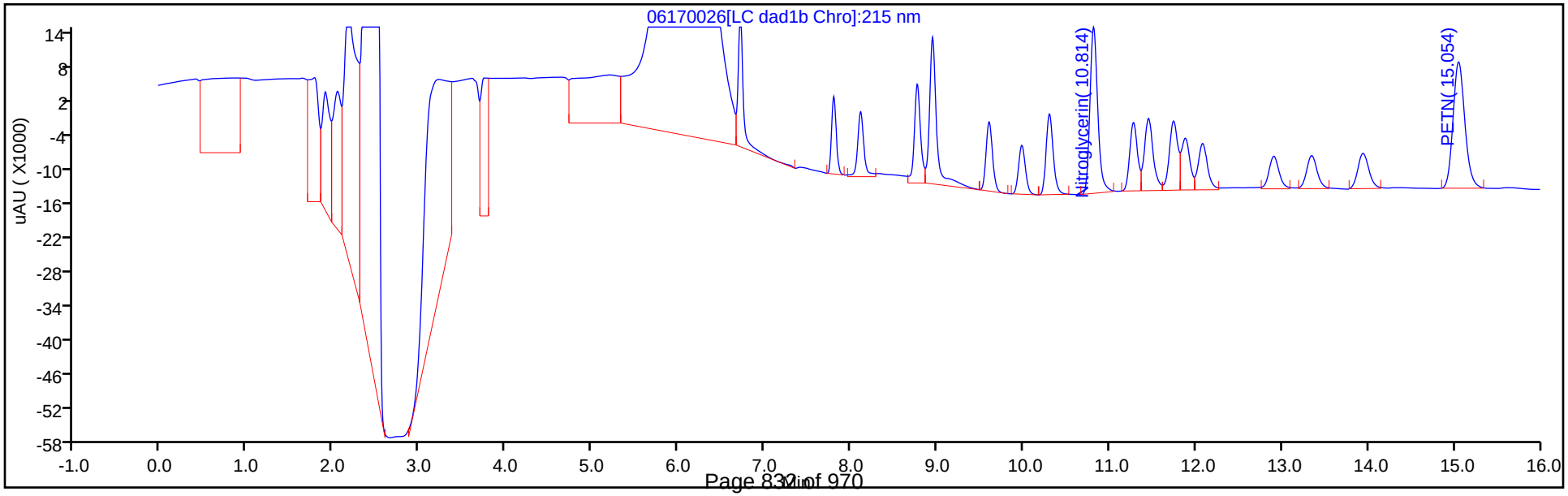
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170026.d				
Injection Date:	18-Jun-2020 02:06:35	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	26
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

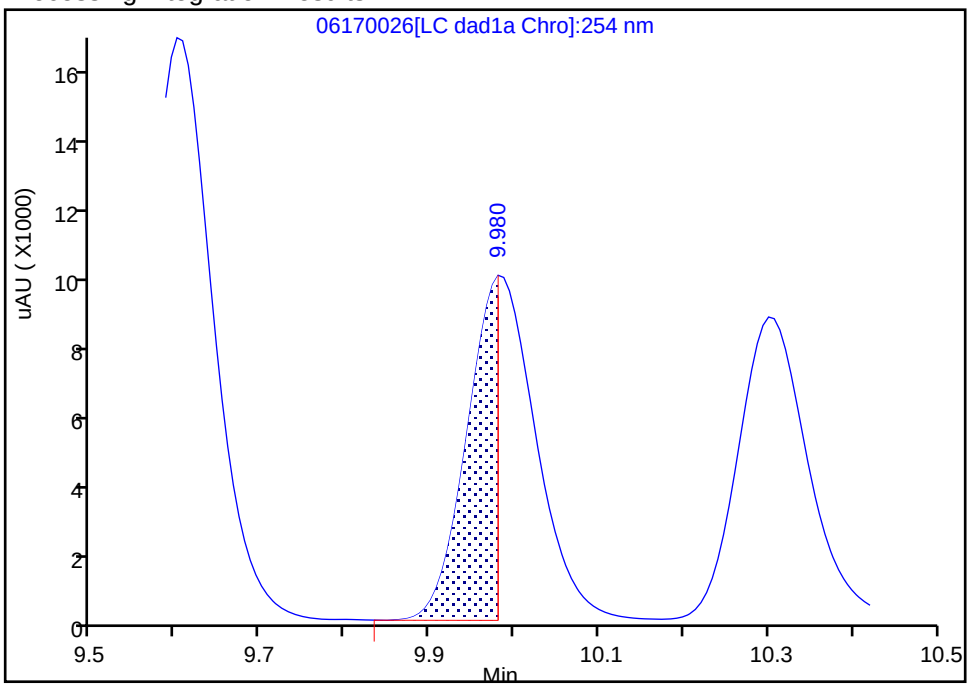
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170026.d				
Injection Date:	18-Jun-2020 02:06:35	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3

Signal: 1

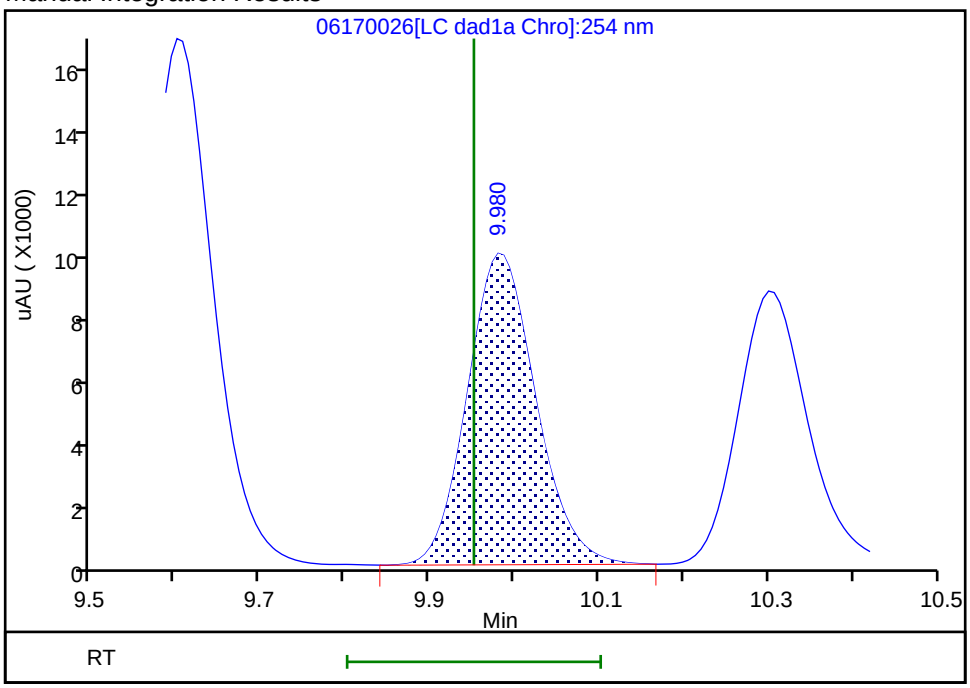
Processing Integration Results

RT: 9.98
Area: 22998
Amount: 0.114759
Amount Units: ug/mL



Manual Integration Results

RT: 9.98
Area: 51439
Amount: 0.256678
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:50:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/27 Calibration Date: 06/18/2020 02:29

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06170027.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	209586		241	250	-3.7	15.0
DNX	Ave	152928	151884		249	250	-0.7	15.0
MNX	Ave	158544	146804		270	292	-7.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Lab Sample ID: CCV 280-499165/27 Calibration Date: 06/18/2020 02:29

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06170027.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.40	7.25	7.55

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170027.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jun-2020 02:29:42	ALS Bottle#:	9	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092523-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:08	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 14:57:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.623	6.626	-0.003	52449	0.2503	0.2410	M
5 DNX	1	6.949	6.953	-0.004	38009	0.2503	0.2485	M
6 MNX	1	7.396	7.400	-0.004	42830	0.2918	0.2701	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

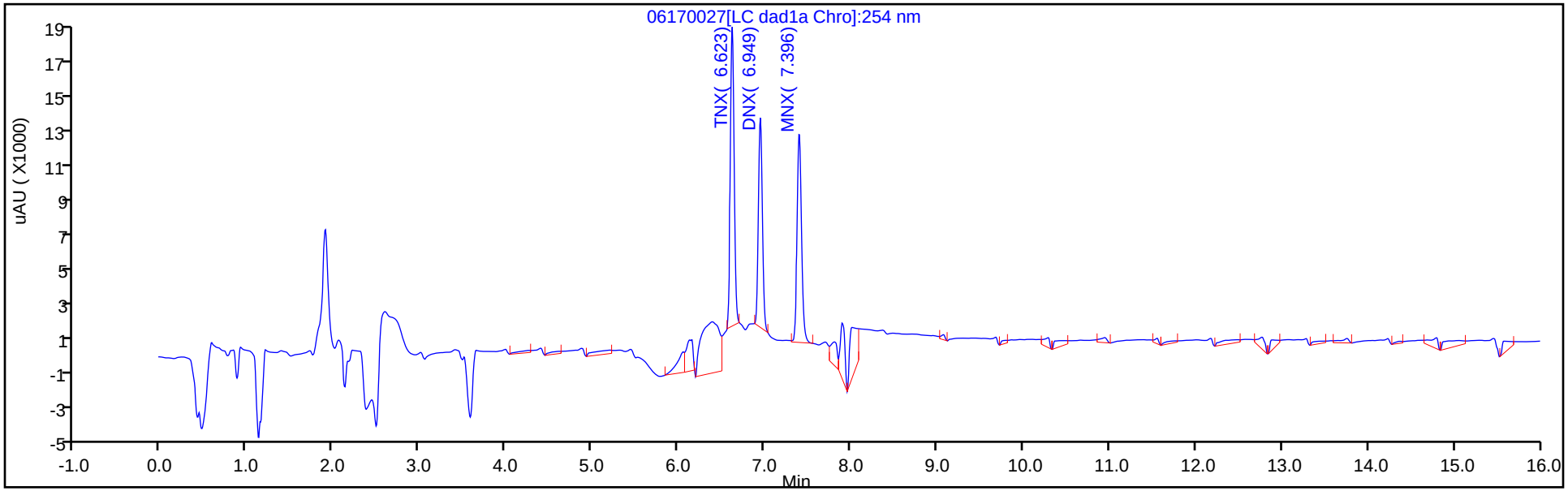
8330 DMT_00006 Amount Added: 12.50 Units: uL

Report Date: 18-Jun-2020 20:46:09 Chrom Revision: 2.3 17-Jun-2020 19:07:08

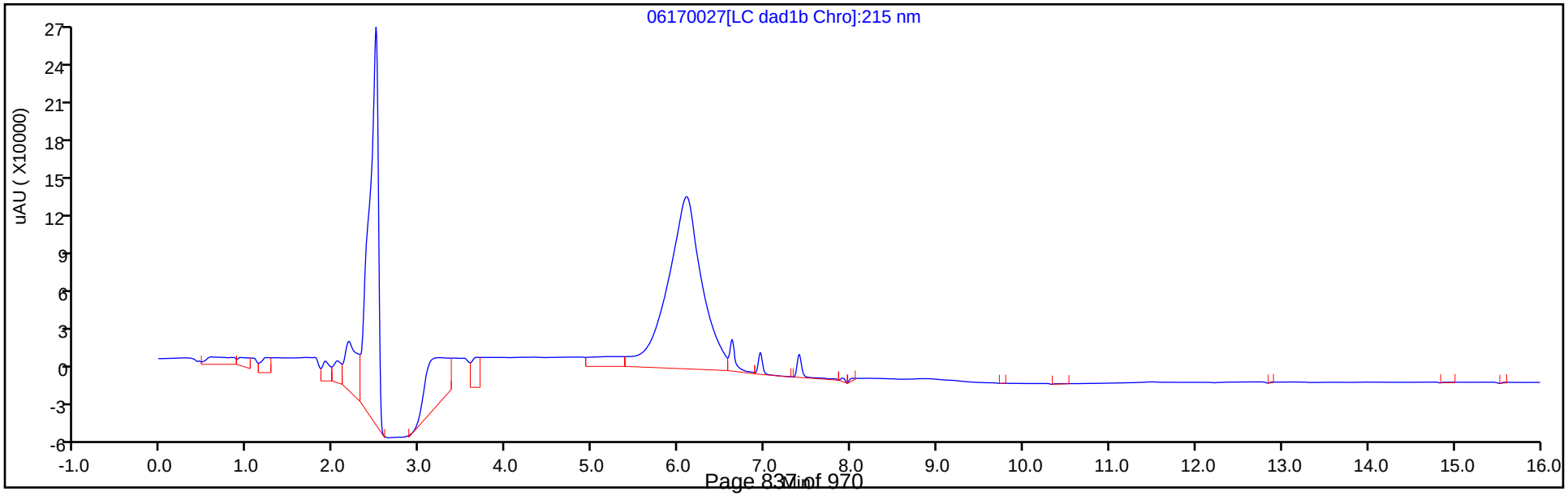
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170027.d				
Injection Date:	18-Jun-2020 02:29:42	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	27
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

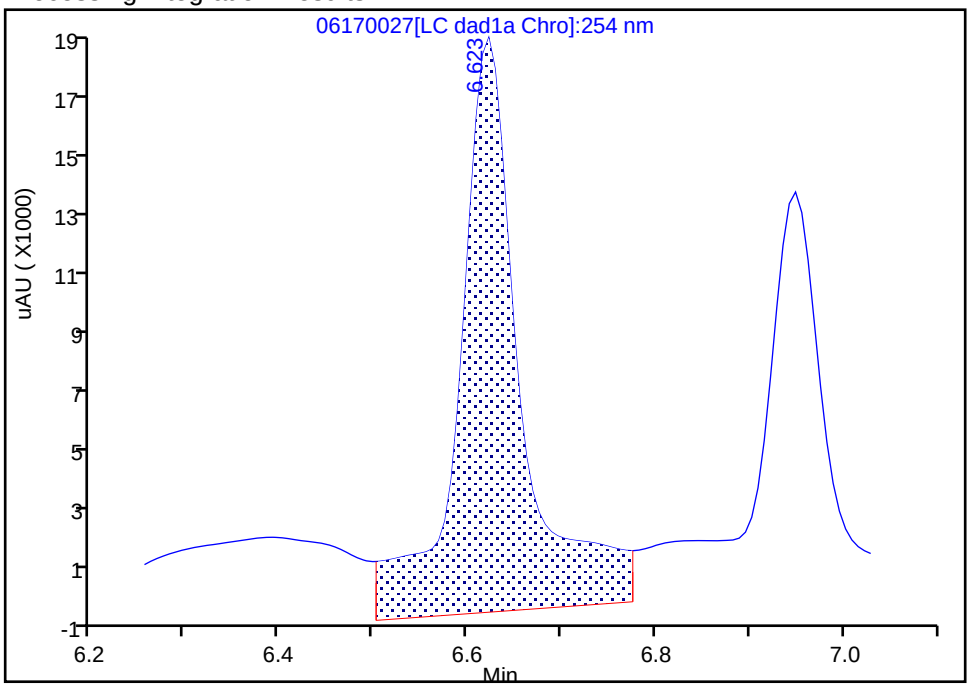
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170027.d				
Injection Date:	18-Jun-2020 02:29:42	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

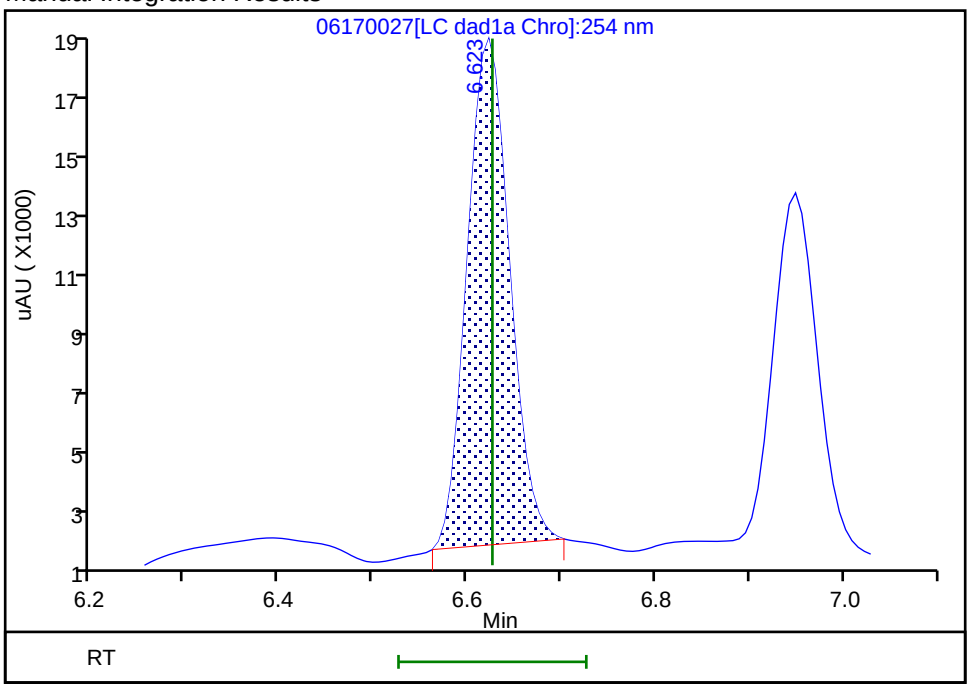
Processing Integration Results

RT: 6.62
Area: 87391
Amount: 0.401597
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 52449
Amount: 0.241024
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 14:56:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

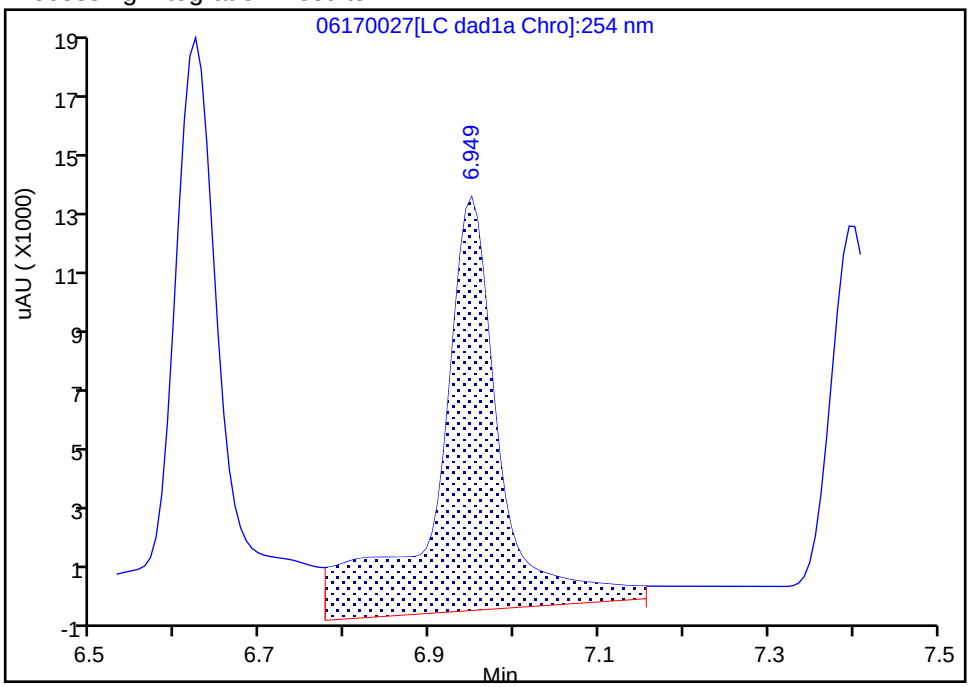
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170027.d				
Injection Date:	18-Jun-2020 02:29:42	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

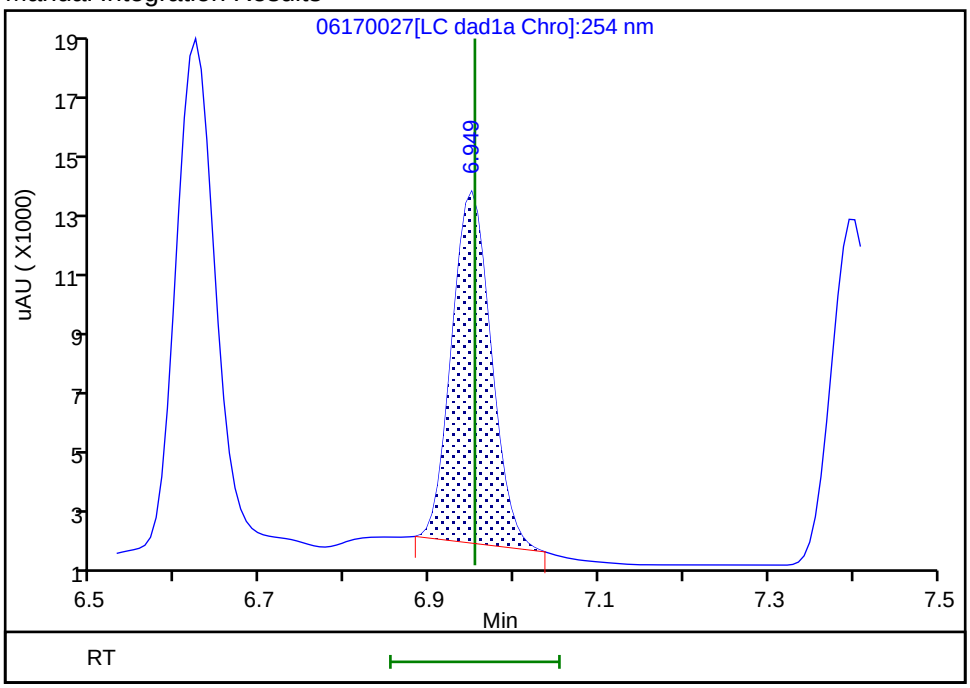
Processing Integration Results

RT: 6.95
Area: 67853
Amount: 0.443692
Amount Units: ug/mL



Manual Integration Results

RT: 6.95
Area: 38009
Amount: 0.248541
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 14:57:00

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-496861/1-A
Matrix: Water
Lab File ID: 06120010.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 500(mL)
Date Analyzed: 06/12/2020 14:35
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.: 498536
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		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120010.D
Lims ID: MB 280-496861/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Jun-2020 14:35:32 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-496861/1-
Misc. Info.: 280-0092367-010
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:11:22 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 12-Jun-2020 15:01:23

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		6.576				ND	U
2 TNX	1		6.621				ND	
3 HMX	1		6.704				ND	
4 2,4-diamino-6-nitrotoluene	1		6.762				ND	
5 DNX	1		6.947				ND	
6 MNX	1		7.394				ND	U
7 RDX	1		7.797				ND	
8 2,4,6-Trinitrophenol	1		8.111				ND	
$ 9 1,2-Dinitrobenzene	1	8.744	8.777	-0.033	25990	0.2000	0.1880	
10 1,3,5-Trinitrobenzene	1		8.957				ND	
11 1,3-Dinitrobenzene	1		9.617				ND	
12 Nitrobenzene	1		10.004				ND	
13 3,5-Dinitroaniline	1		10.215				ND	
14 Tetryl	1		10.330				ND	
15 Nitroglycerin	2		10.850				ND	
16 2,4,6-Trinitrotoluene	1		11.310				ND	
17 4-Amino-2,6-dinitrotoluene	1		11.484				ND	
18 2-Amino-4,6-dinitrotoluene	1		11.784				ND	
19 2,6-Dinitrotoluene	1		11.924				ND	
20 2,4-Dinitrotoluene	1		12.124				ND	
21 o-Nitrotoluene	1		12.977				ND	
22 p-Nitrotoluene	1		13.424				ND	
23 m-Nitrotoluene	1	14.017	14.030	-0.013	1355		0.009474	
24 PETN	2		15.164				ND	
25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Review Flags

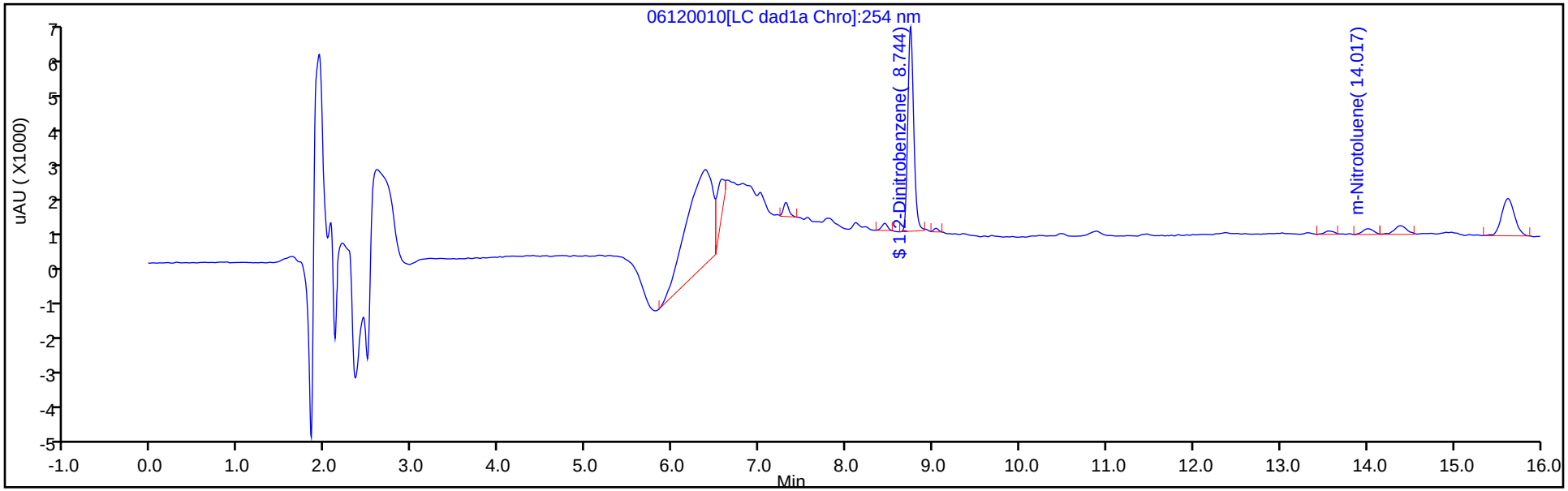
U - Marked Undetected

Report Date: 16-Jun-2020 18:11:22 Chrom Revision: 2.3 10-Jun-2020 22:46:48

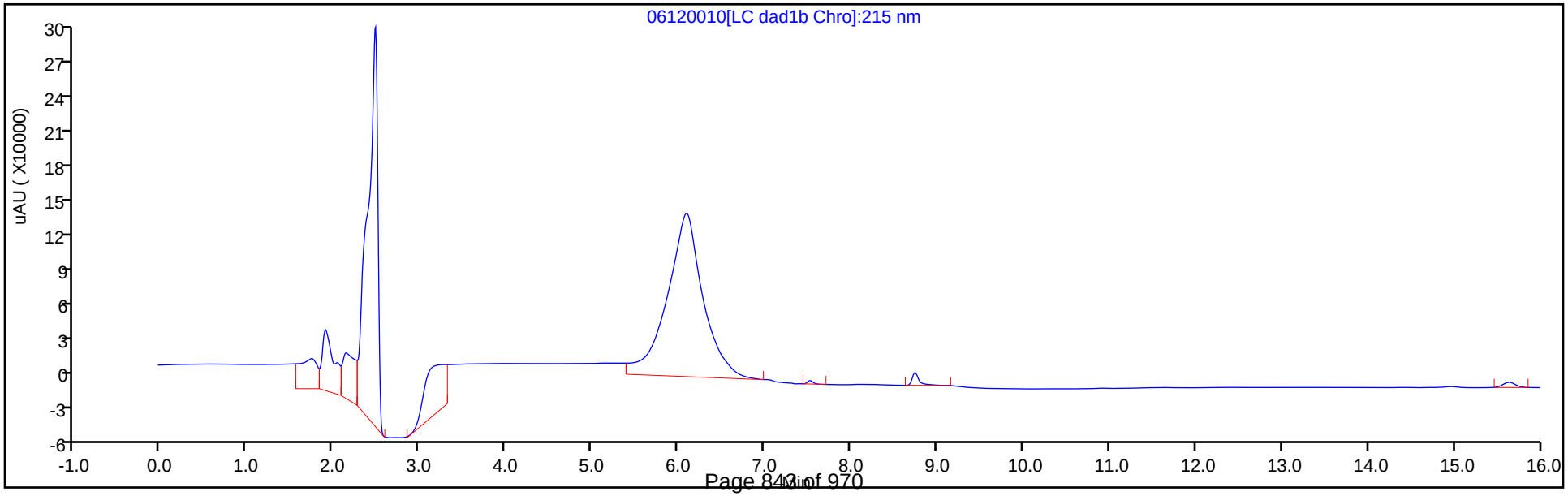
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120010.d				
Injection Date:	12-Jun-2020 14:35:32	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-496861/1-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
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\20200612-92367.b\06120010.D				
Lims ID:	MB 280-496861/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	12-Jun-2020 14:35:32	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-496861/1-				
Misc. Info.:	280-0092367-010				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 18:11:22	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 12-Jun-2020 15:01:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1880	94.02

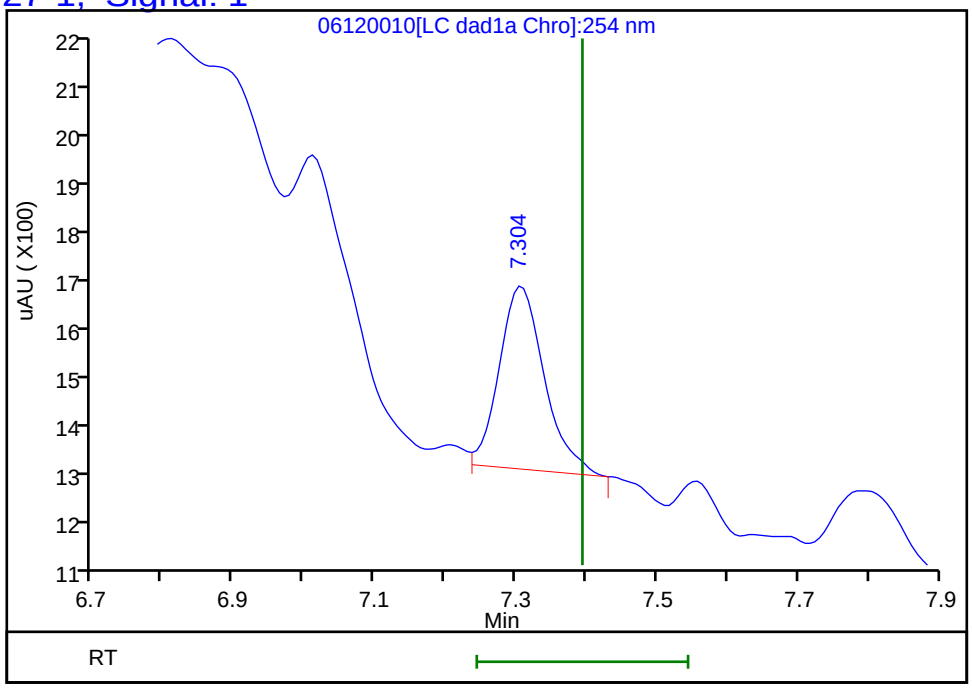
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120010.d				
Injection Date:	12-Jun-2020 14:35:32	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-496861/1-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
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: 1673
Amount: 0.010552



Reviewer: zhangji, 12-Jun-2020 15:02:50
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.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-497003/1-A
Matrix: Water
Lab File ID: 06120021.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 500(mL)
Date Analyzed: 06/12/2020 18:48
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.: 498537
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	0.084
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 M	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	95		83-119

Report Date: 16-Jun-2020 20:56:06 Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120021.D
Lims ID: MB 280-497003/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Jun-2020 18:48:35 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-497003/1-
Misc. Info.: 280-0092367-021
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 20:48:41 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 20:18:55

	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		6.576				ND	U
	2 TNX	1		6.621				ND	
	3 HMX	1		6.704				ND	
	4 2,4-diamino-6-nitrotoluene	1		6.762				ND	
	5 DNX	1		6.947				ND	
	6 MNX	1		7.394				ND	U
	7 RDX	1		7.797				ND	
	8 2,4,6-Trinitrophenol	1	8.127	8.111	0.016	1909		0.0224	
$	9 1,2-Dinitrobenzene	1	8.773	8.777	-0.004	26265	0.2000	0.1900	
	10 1,3,5-Trinitrobenzene	1		8.957				ND	U
	11 1,3-Dinitrobenzene	1		9.617				ND	
	12 Nitrobenzene	1		10.004				ND	
	13 3,5-Dinitroaniline	1		10.215				ND	
	14 Tetryl	1		10.330				ND	
	15 Nitroglycerin	2		10.850				ND	
	16 2,4,6-Trinitrotoluene	1		11.310				ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.484				ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.784				ND	
	19 2,6-Dinitrotoluene	1		11.924				ND	
	20 2,4-Dinitrotoluene	1		12.124				ND	
	21 o-Nitrotoluene	1		12.977				ND	
	22 p-Nitrotoluene	1		13.424				ND	
	23 m-Nitrotoluene	1		14.030				ND	U
	24 PETN	2		15.164				ND	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Review Flags

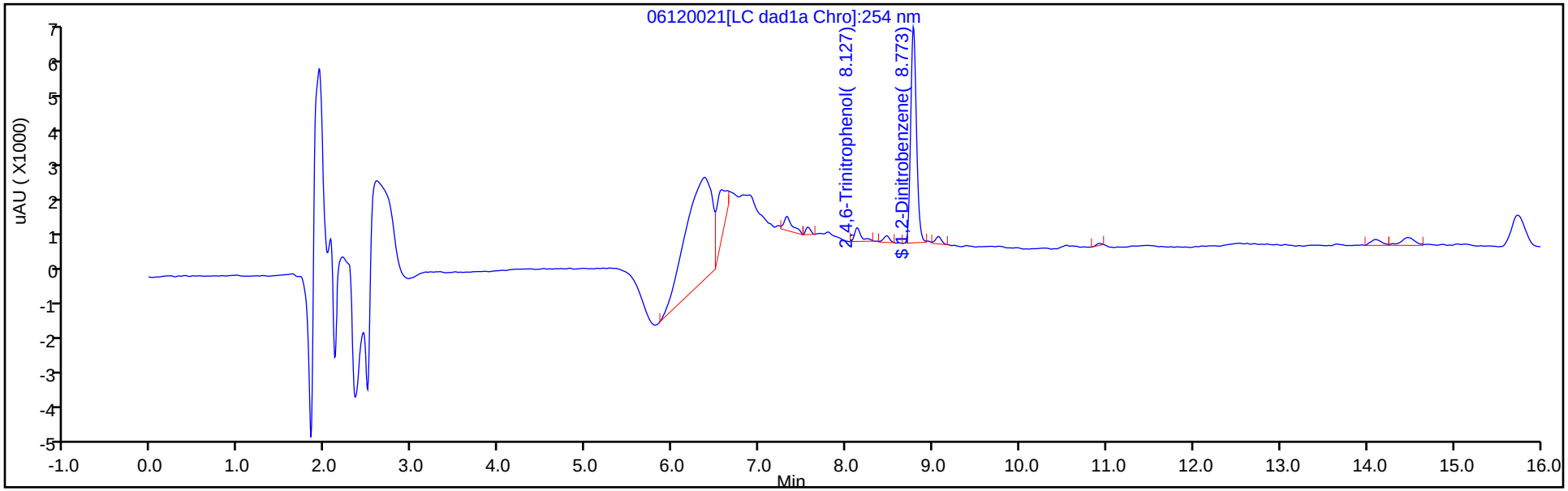
U - Marked Undetected

Report Date: 16-Jun-2020 20:56:06 Chrom Revision: 2.3 10-Jun-2020 22:46:48

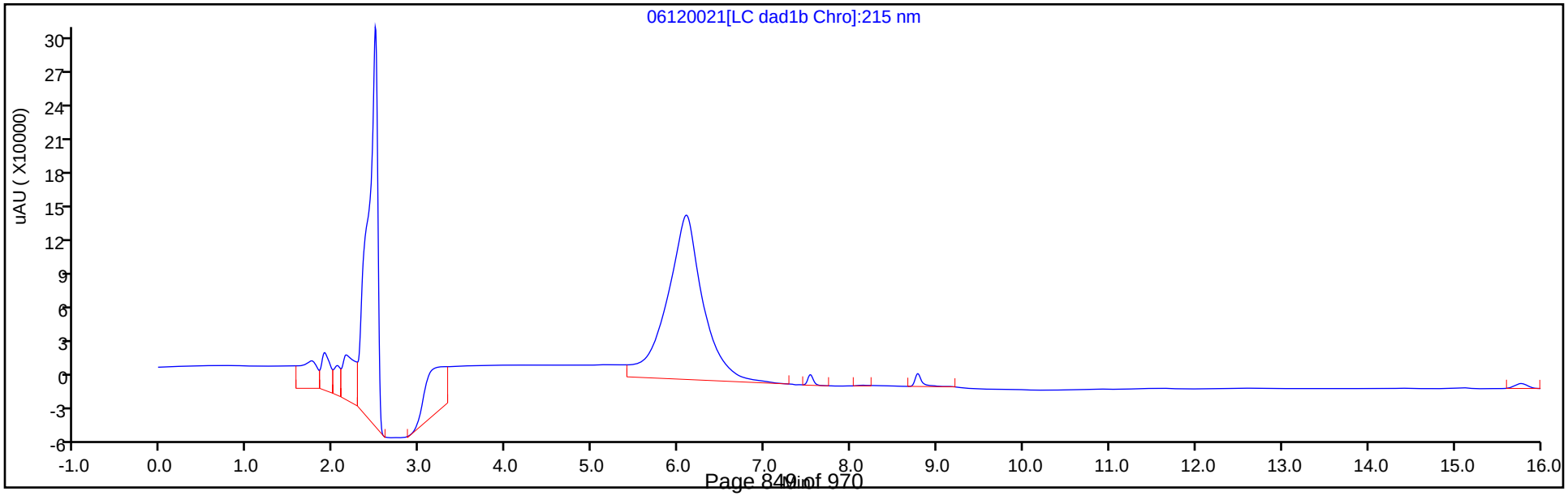
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120021.d				
Injection Date:	12-Jun-2020 18:48:35	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-497003/1-A			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
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\20200612-92367.b\06120021.D				
Lims ID:	MB 280-497003/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	12-Jun-2020 18:48:35	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-497003/1-				
Misc. Info.:	280-0092367-021				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 20:18:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1900	95.02

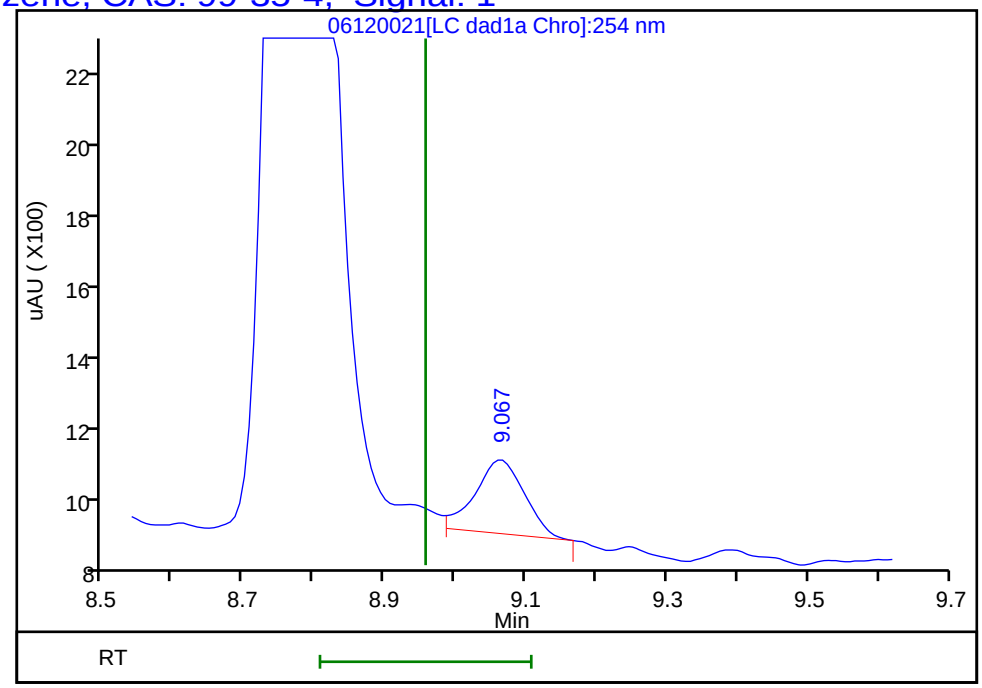
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120021.d				
Injection Date:	12-Jun-2020 18:48:35	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-497003/1-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	21	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		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 9.07
Response: 942
Amount: 0.004090



Reviewer: zhangji, 16-Jun-2020 20:18:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

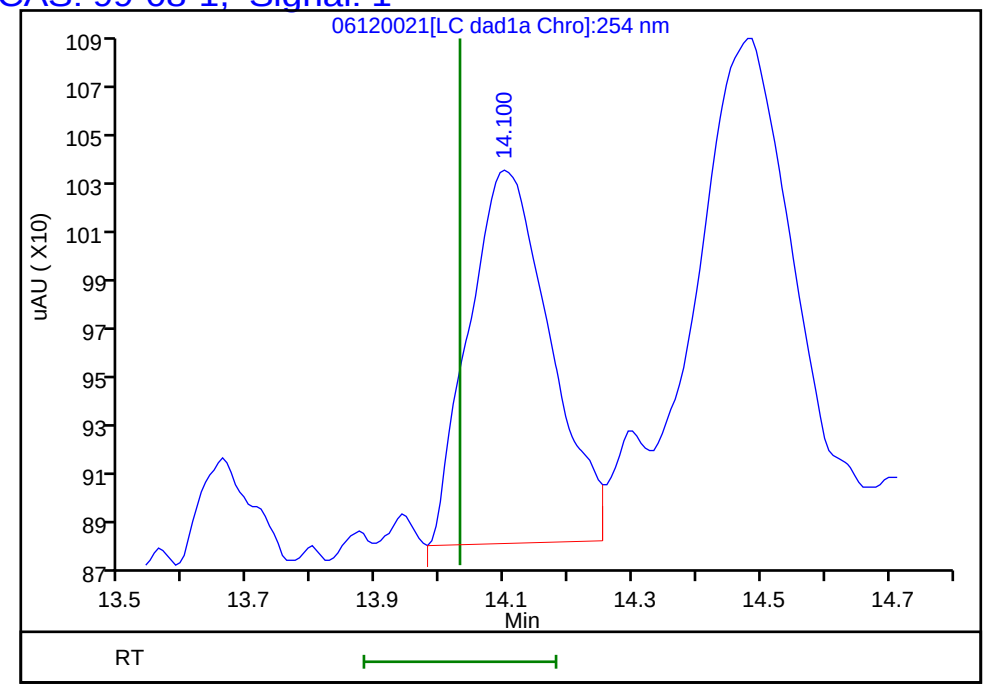
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120021.d				
Injection Date:	12-Jun-2020 18:48:35	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-497003/1-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	21	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		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 14.10
Response: 1346
Amount: 0.009411



Reviewer: zhangji, 16-Jun-2020 20:18:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

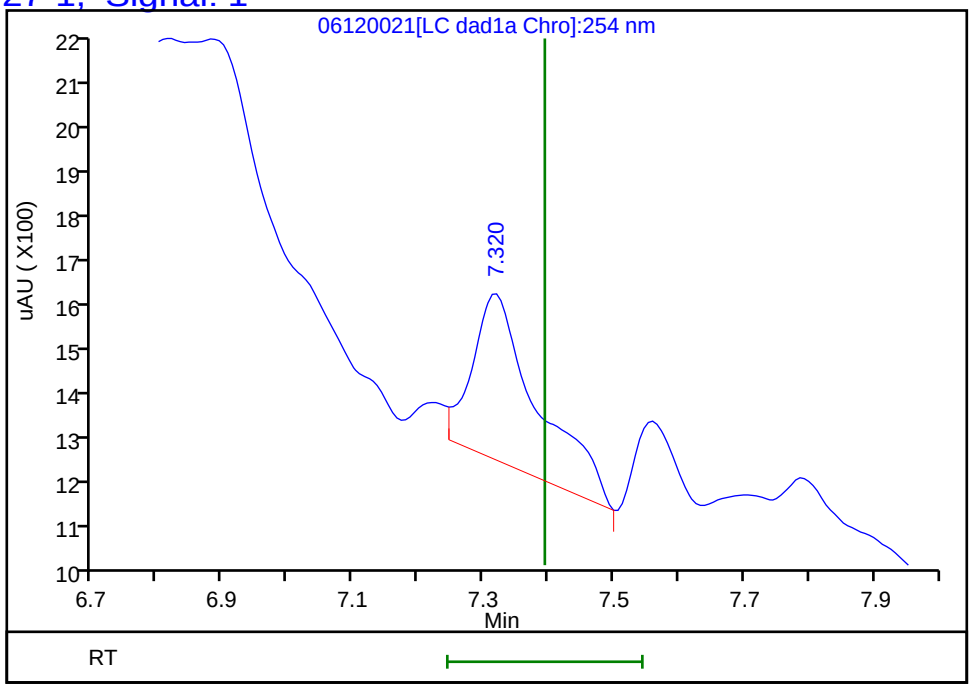
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120021.d				
Injection Date:	12-Jun-2020 18:48:35	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-497003/1-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	21	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		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.32
Response: 2548
Amount: 0.016071



Reviewer: zhangji, 16-Jun-2020 20:18:55
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.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-498875/1-A
Matrix: Water
Lab File ID: 016-1601.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 500(mL)
Date Analyzed: 06/17/2020 22:16
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.: 499165
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	100		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\016-1601.D
Lims ID: MB 280-498875/1-A
Client ID:
Sample Type: MB
Inject. Date: 17-Jun-2020 22:16:32 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-498875/1-
Misc. Info.: 280-0092523-016
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 14:10:49

	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		6.579				ND	U
	2 TNX	1		6.626				ND	
	3 HMX	1		6.725				ND	
	4 2,4-diamino-6-nitrotoluene	1		6.759				ND	
	5 DNX	1		6.953				ND	
	6 MNX	1		7.400				ND	U
	7 RDX	1		7.792				ND	
	8 2,4,6-Trinitrophenol	1		8.099				ND	
$	9 1,2-Dinitrobenzene	1	8.758	8.752	0.006	27577	0.2000	0.1995	
	10 1,3,5-Trinitrobenzene	1		8.932				ND	
	11 1,3-Dinitrobenzene	1		9.578				ND	
	12 Nitrobenzene	1		9.952				ND	
	13 3,5-Dinitroaniline	1		10.212				ND	
	14 Tetryl	1		10.258				ND	
	15 Nitroglycerin	2		10.778				ND	
	16 2,4,6-Trinitrotoluene	1		11.238				ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.398				ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.692				ND	
	19 2,6-Dinitrotoluene	1		11.838				ND	
	20 2,4-Dinitrotoluene	1		12.038				ND	
	21 o-Nitrotoluene	1		12.865				ND	
	22 p-Nitrotoluene	1		13.292				ND	
	23 m-Nitrotoluene	1		13.885				ND	
	24 PETN	2		14.965				ND	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Review Flags

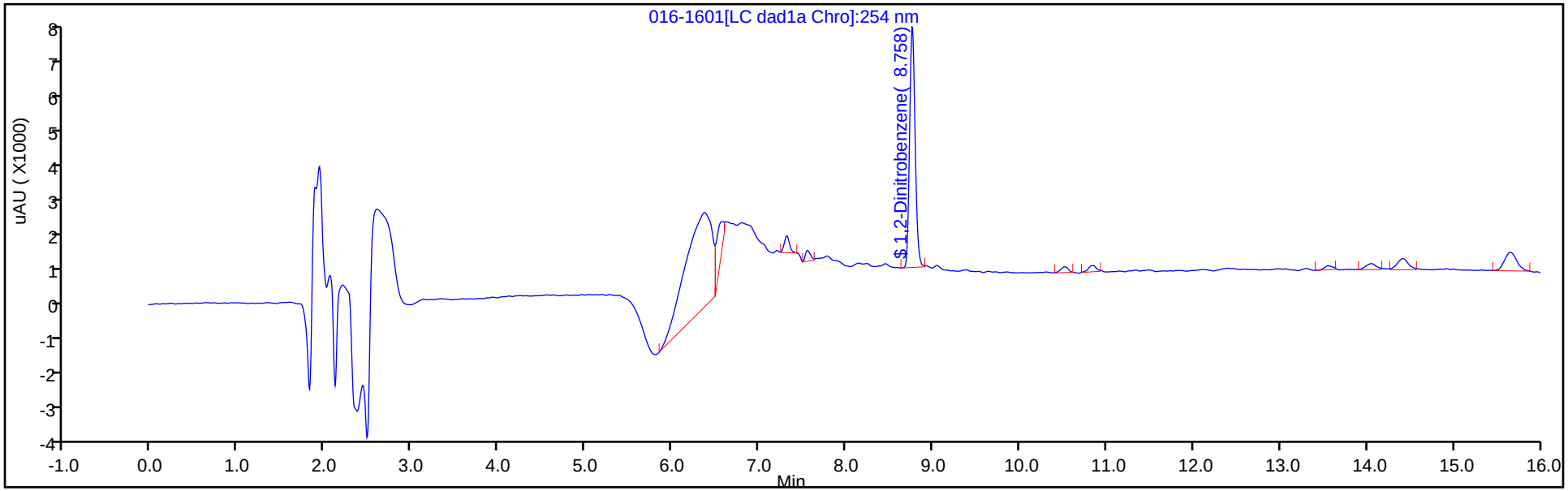
U - Marked Undetected

Report Date: 18-Jun-2020 20:46:01 Chrom Revision: 2.3 17-Jun-2020 19:07:08

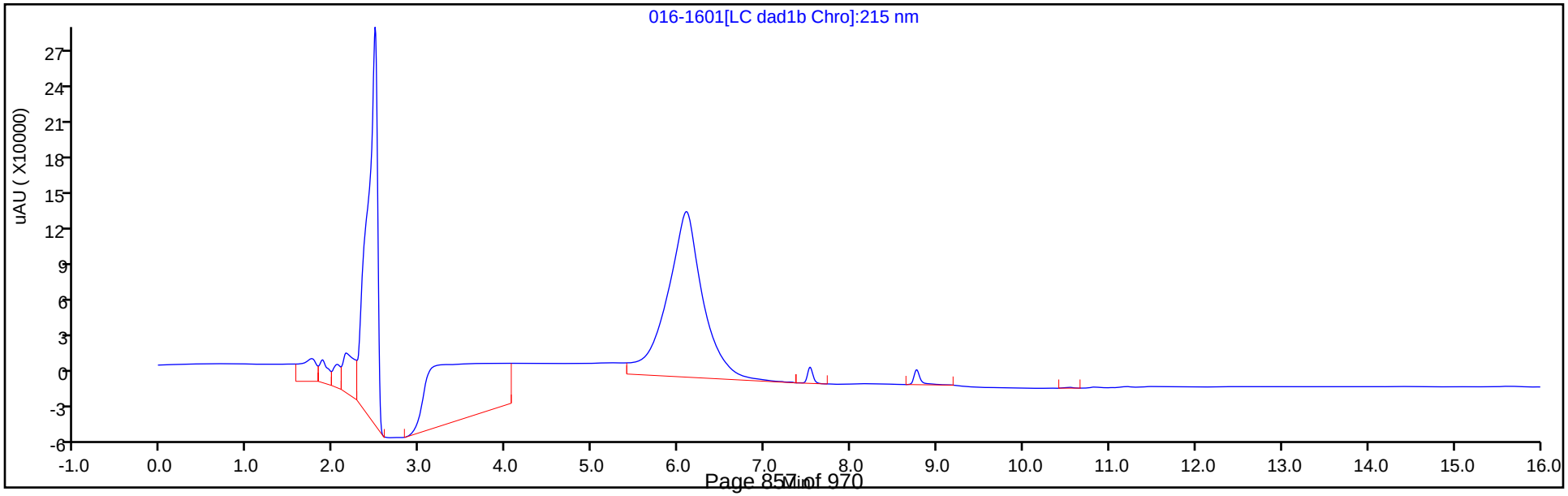
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\016-1601.d				
Injection Date:	17-Jun-2020 22:16:32	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-498875/1-A			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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\016-1601.D				
Lims ID:	MB 280-498875/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Jun-2020 22:16:32	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-498875/1-				
Misc. Info.:	280-0092523-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 14:10:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1995	99.76

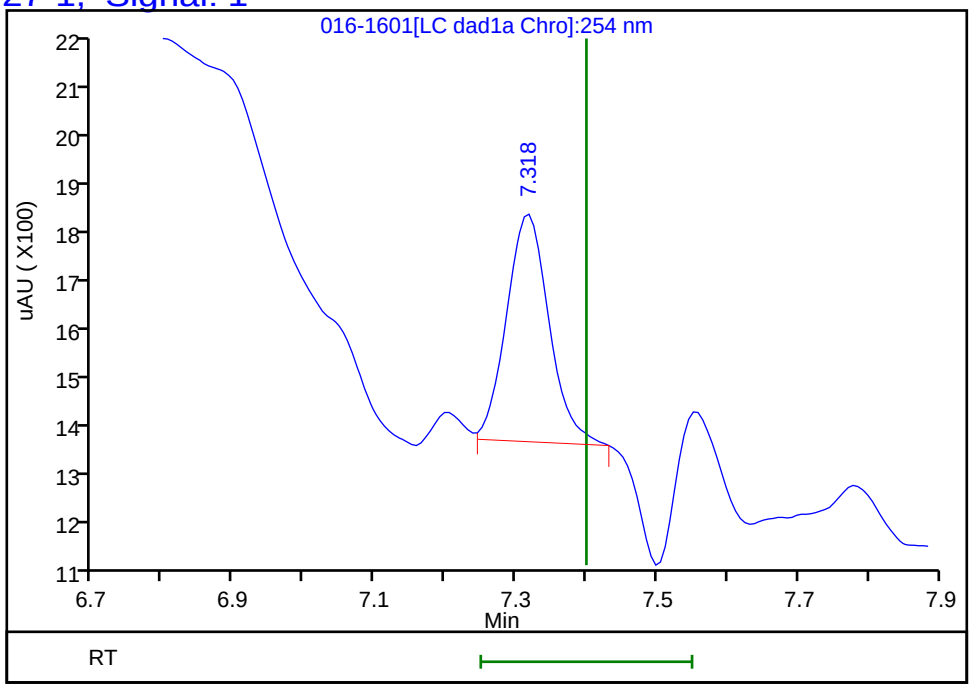
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\016-1601.d				
Injection Date:	17-Jun-2020 22:16:32	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-498875/1-A				
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		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.32
Response: 1821
Amount: 0.011486



Reviewer: zhangji, 18-Jun-2020 14:10:49
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.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-496861/2-A
Matrix: Water
Lab File ID: 06110023.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 500(mL)
Date Analyzed: 06/11/2020 21:06
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.: 498360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.11		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.00		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.09		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.85		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.03		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.81		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.62		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.80		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.68		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.58		0.41	0.40	0.10
2691-41-0	HMX	2.00		0.21	0.20	0.088
98-95-3	Nitrobenzene	1.88		0.21	0.20	0.091
121-82-4	RDX	1.96		0.21	0.20	0.052
479-45-8	Tetryl	1.90		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110023.D
Lims ID: LCS 280-496861/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Jun-2020 21:06:40 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-496861/2
Misc. Info.: 280-0092324-023
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji Date: 12-Jun-2020 11:09:18

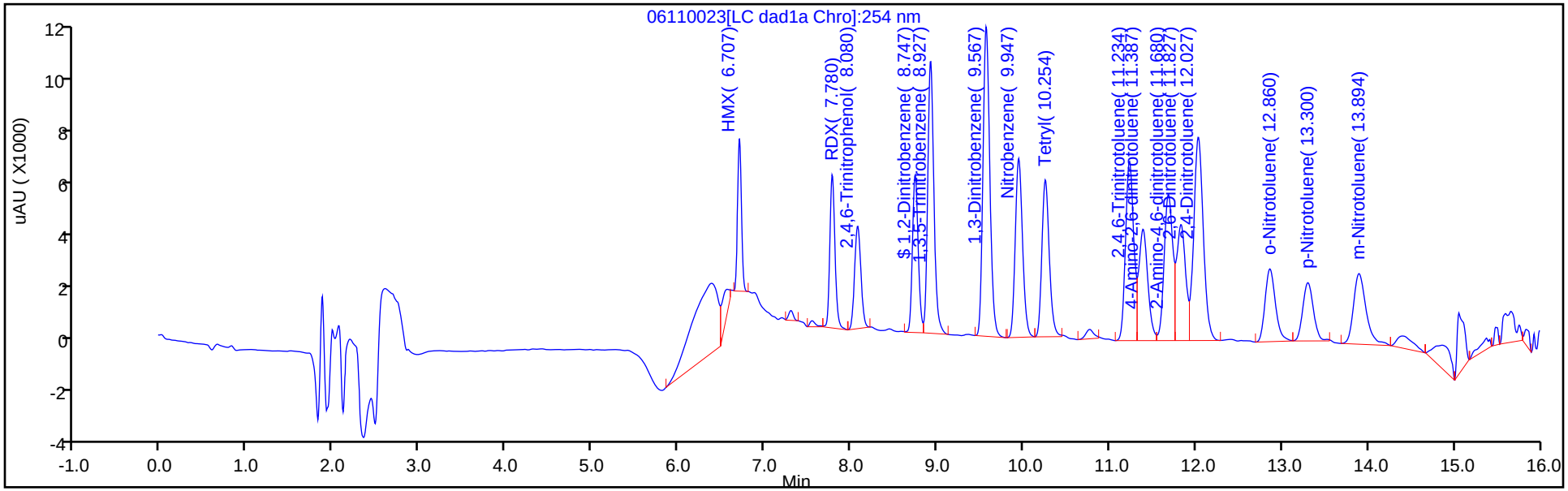
Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.707	6.696	0.011	17189	0.2000	0.2000	
7 RDX	1	7.780	7.776	0.004	22830	0.2000	0.1958	
8 2,4,6-Trinitrophenol	1	8.080	8.069	0.011	18741	0.2000	0.2201	
$ 9 1,2-Dinitrobenzene	1	8.747	8.743	0.004	26328	0.2000	0.1905	
10 1,3,5-Trinitrobenzene	1	8.927	8.916	0.011	48565	0.2000	0.2109	
11 1,3-Dinitrobenzene	1	9.567	9.569	-0.002	61293	0.2000	0.1999	
12 Nitrobenzene	1	9.947	9.949	-0.002	37701	0.2000	0.1881	
14 Tetryl	1	10.254	10.256	-0.002	33551	0.2000	0.1895	
15 Nitroglycerin	2	10.767	10.762	0.005	135979	2.00	2.00	
16 2,4,6-Trinitrotoluene	1	11.234	11.222	0.012	42672	0.2000	0.2091	
17 4-Amino-2,6-dinitrotoluene	1	11.387	11.376	0.011	28742	0.2000	0.1677	
18 2-Amino-4,6-dinitrotoluene	1	11.680	11.662	0.018	36618	0.2000	0.1805	
19 2,6-Dinitrotoluene	1	11.827	11.809	0.018	30316	0.2000	0.2028	
20 2,4-Dinitrotoluene	1	12.027	12.009	0.018	56258	0.2000	0.1853	
21 o-Nitrotoluene	1	12.860	12.842	0.018	21869	0.2000	0.1619	
22 p-Nitrotoluene	1	13.300	13.276	0.024	17890	0.2000	0.1583	
23 m-Nitrotoluene	1	13.894	13.862	0.032	25740	0.2000	0.1800	
24 PETN	2	14.987	14.969	0.018	149723	2.00	1.90	

Report Date: 12-Jun-2020 12:39:54 Chrom Revision: 2.3 10-Jun-2020 22:46:48

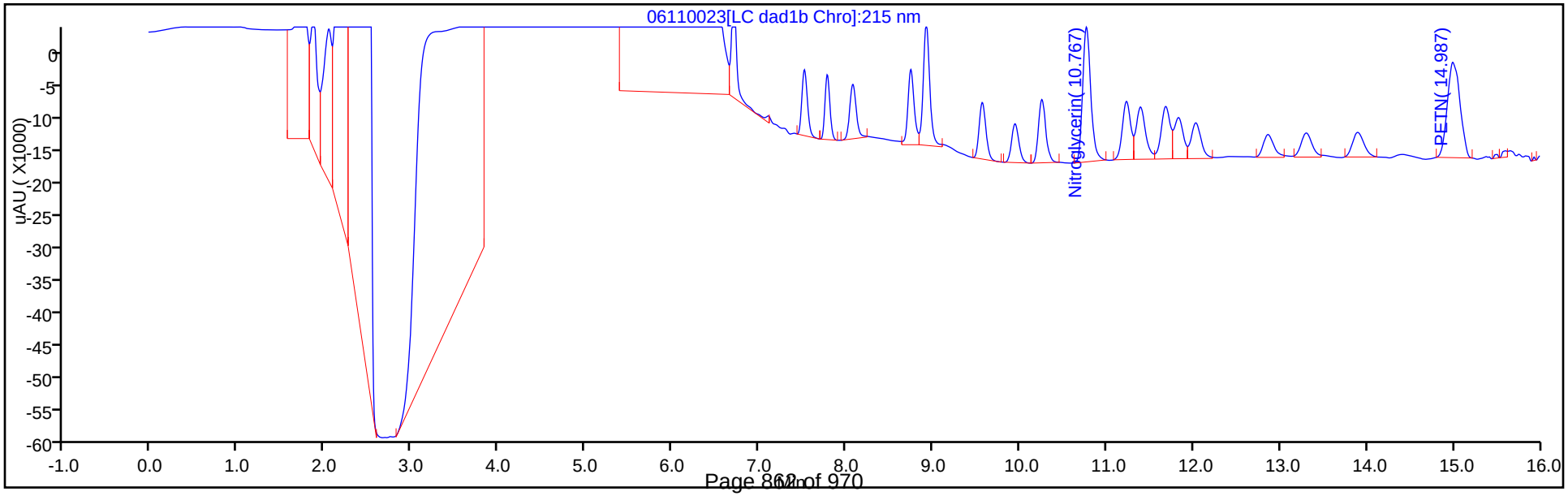
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110023.d				
Injection Date:	11-Jun-2020 21:06:40	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-496861/2-A			Worklist Smp#:	23
Client ID:					
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\20200611-92324.b\06110023.D				
Lims ID:	LCS 280-496861/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	11-Jun-2020 21:06:40	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-496861/2				
Misc. Info.:	280-0092324-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				
First Level Reviewer: zhangji		Date:	12-Jun-2020 11:09:18		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1905	95.24

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-496861/4-A
Matrix: Water
Lab File ID: 06110025.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 500(mL)
Date Analyzed: 06/11/2020 21:52
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.: 498360
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	95		83-119

Report Date: 12-Jun-2020 12:39:54 Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110025.D				
Lims ID:	LCS 280-496861/4-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	11-Jun-2020 21:52:37	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-496861/4				
Misc. Info.:	280-0092324-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1034	

First Level Reviewer: zhangji Date: 12-Jun-2020 11:05:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.612	6.627	-0.015	39466	0.2002	0.1814	M
5 DNX	1	6.932	6.954	-0.022	29727	0.2002	0.1944	M
6 MNX	1	7.378	7.407	-0.029	33492	0.2334	0.2112	M
$ 9 1,2-Dinitrobenzene	1	8.745	8.743	0.002	26286	0.2000	0.1902	

QC Flag Legend

Review Flags

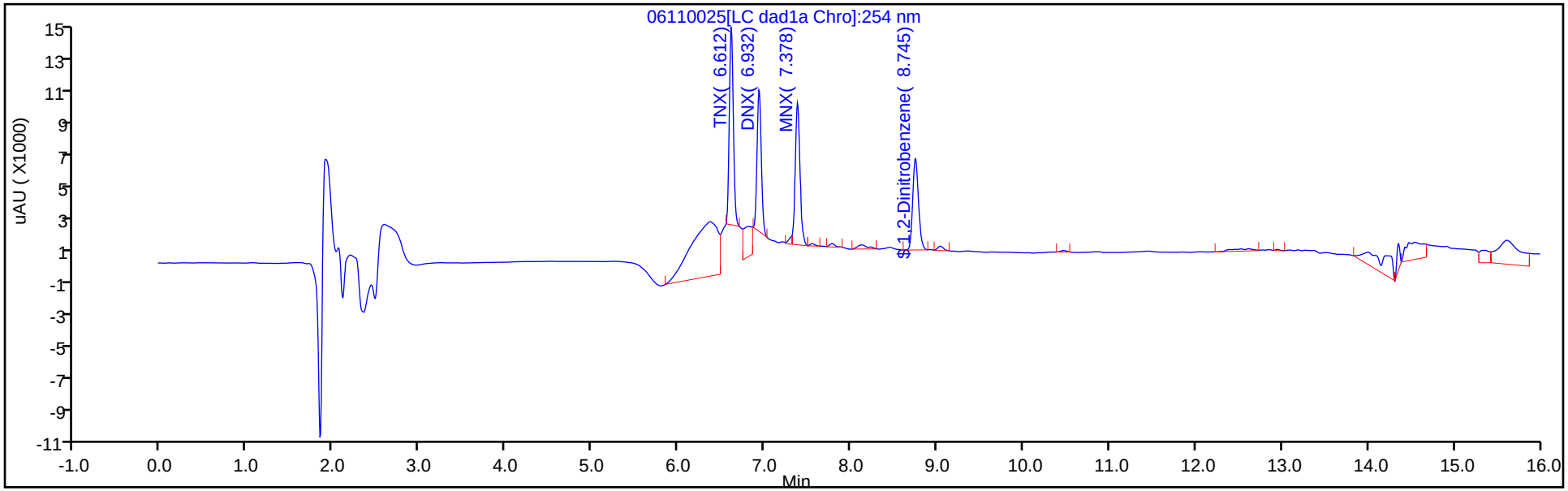
M - Manually Integrated

Report Date: 12-Jun-2020 12:39:54 Chrom Revision: 2.3 10-Jun-2020 22:46:48

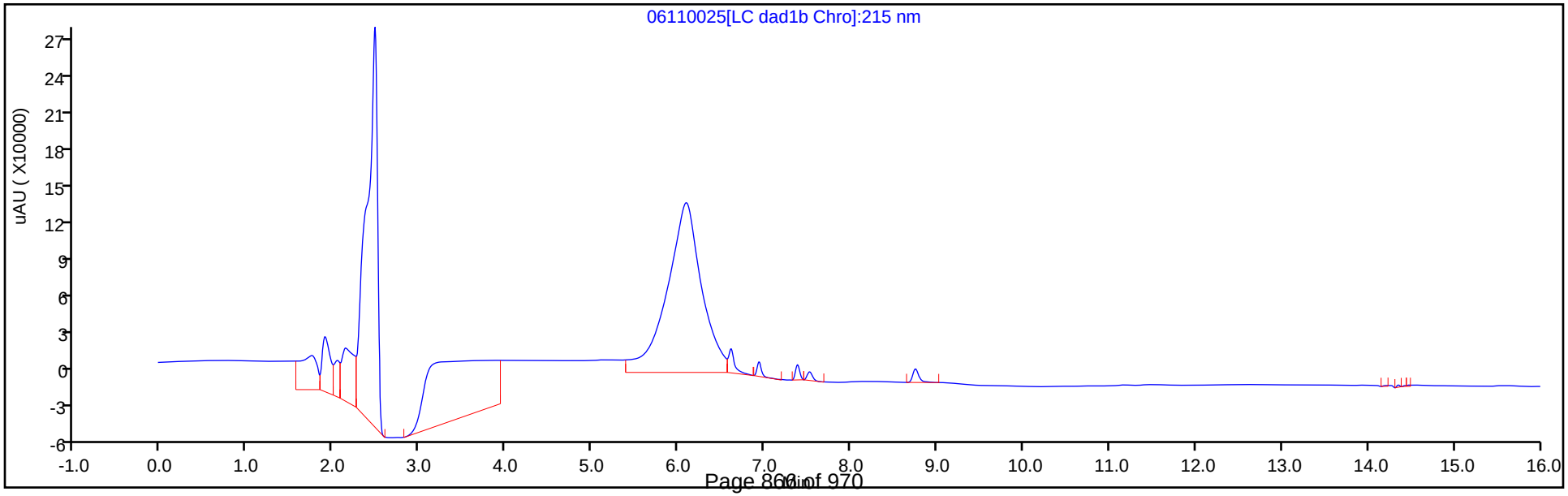
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110025.d				
Injection Date:	11-Jun-2020 21:52:37	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-496861/4-A			Worklist Smp#:	25
Client ID:					
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\20200611-92324.b\06110025.D				
Lims ID:	LCS 280-496861/4-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	11-Jun-2020 21:52:37	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-496861/4				
Misc. Info.:	280-0092324-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				
First Level Reviewer: zhangji		Date:	12-Jun-2020 11:05:11		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1902	95.09

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

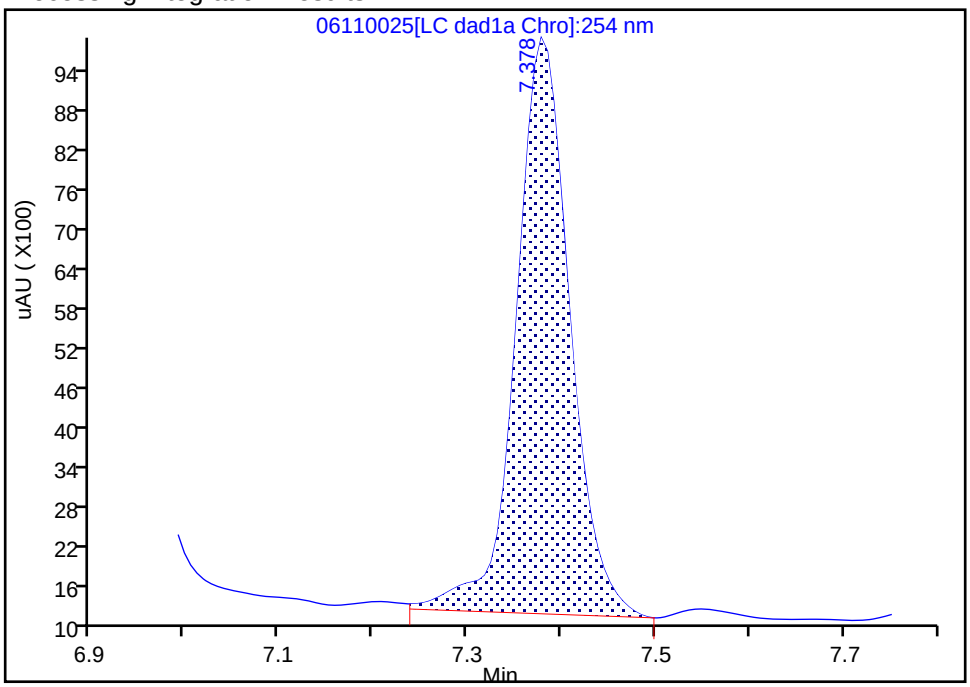
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110025.d				
Injection Date:	11-Jun-2020 21:52:37	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-496861/4-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

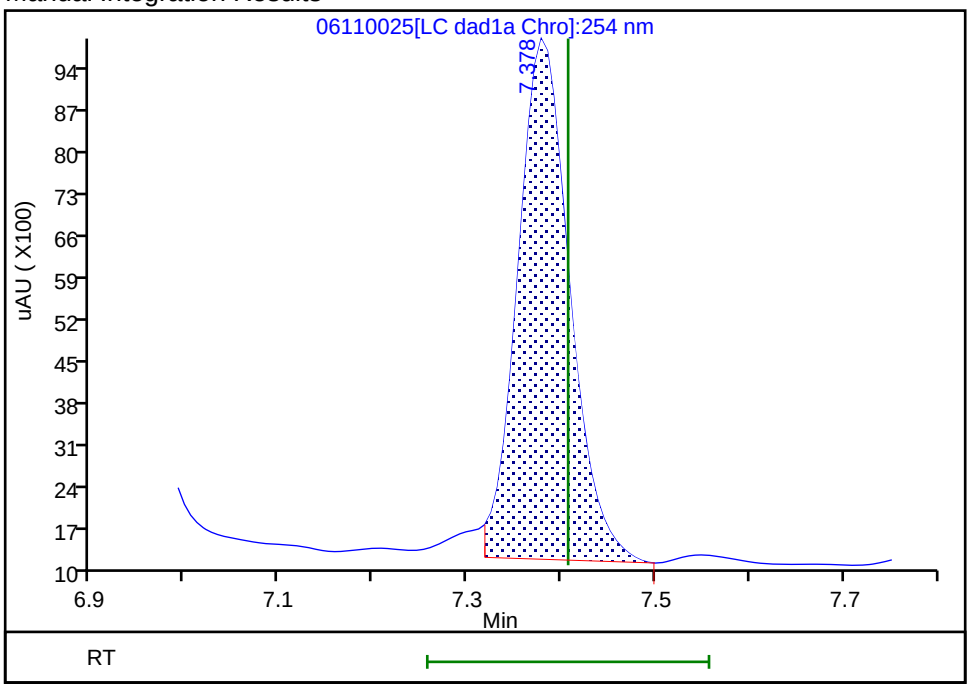
Processing Integration Results

RT: 7.38
Area: 34829
Amount: 0.219680
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 33492
Amount: 0.211247
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:05:08
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-497003/2-A
Matrix: Water
Lab File ID: 06120022.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 500(mL)
Date Analyzed: 06/12/2020 19:11
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.: 498537
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.16		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.01		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.10		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.87		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.00		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.80		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.61		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.75		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.67		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.70		0.41	0.40	0.10
2691-41-0	HMX	2.01	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.83		0.21	0.20	0.091
121-82-4	RDX	1.94		0.21	0.20	0.052
479-45-8	Tetryl	1.91		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	99		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120022.D
Lims ID: LCS 280-497003/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Jun-2020 19:11:31 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-497003/2
Misc. Info.: 280-0092367-022
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 20:48:41 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji Date: 16-Jun-2020 20:19:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.713	6.704	0.009	17284	0.2000	0.2011	M
7 RDX	1	7.800	7.797	0.003	22658	0.2000	0.1943	
8 2,4,6-Trinitrophenol	1	8.107	8.111	-0.004	22327	0.2000	0.2623	
$ 9 1,2-Dinitrobenzene	1	8.773	8.777	-0.004	27475	0.2000	0.1988	
10 1,3,5-Trinitrobenzene	1	8.953	8.957	-0.004	49721	0.2000	0.2159	
11 1,3-Dinitrobenzene	1	9.607	9.617	-0.010	61667	0.2000	0.2011	
12 Nitrobenzene	1	9.987	10.004	-0.017	36731	0.2000	0.1833	
14 Tetryl	1	10.313	10.330	-0.017	33891	0.2000	0.1914	
15 Nitroglycerin	2	10.820	10.850	-0.030	144021	2.00	2.11	
16 2,4,6-Trinitrotoluene	1	11.287	11.310	-0.023	42749	0.2000	0.2095	
17 4-Amino-2,6-dinitrotoluene	1	11.453	11.484	-0.031	28639	0.2000	0.1671	
18 2-Amino-4,6-dinitrotoluene	1	11.753	11.784	-0.031	36478	0.2000	0.1799	
19 2,6-Dinitrotoluene	1	11.893	11.924	-0.031	29929	0.2000	0.2003	
20 2,4-Dinitrotoluene	1	12.093	12.124	-0.031	56807	0.2000	0.1871	
21 o-Nitrotoluene	1	12.920	12.977	-0.057	21790	0.2000	0.1613	
22 p-Nitrotoluene	1	13.360	13.424	-0.064	19207	0.2000	0.1700	
23 m-Nitrotoluene	1	13.953	14.030	-0.077	24999	0.2000	0.1748	
24 PETN	2	15.067	15.164	-0.097	159619	2.00	2.03	

QC Flag Legend

Review Flags

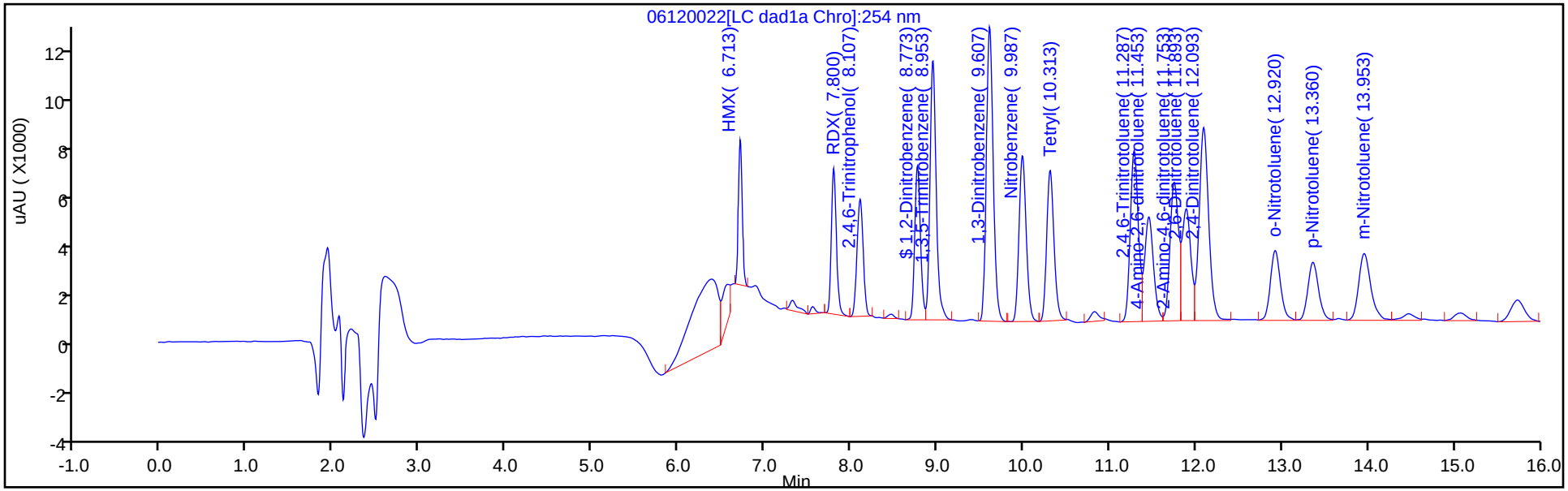
M - Manually Integrated

Report Date: 16-Jun-2020 20:56:06 Chrom Revision: 2.3 10-Jun-2020 22:46:48

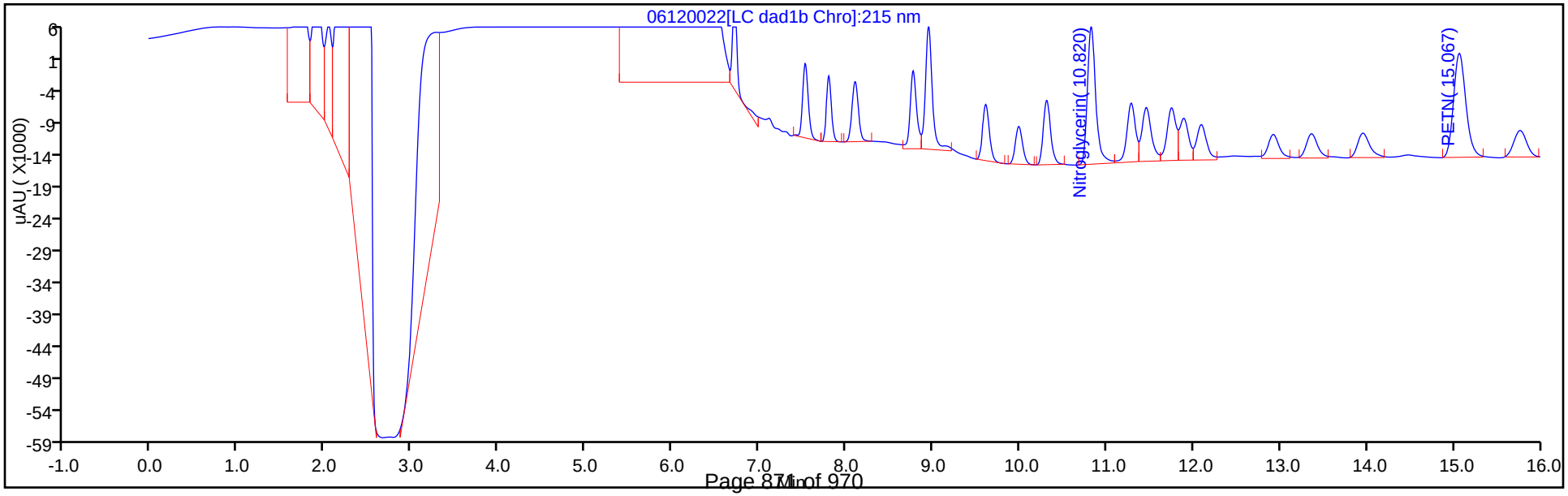
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120022.d				
Injection Date:	12-Jun-2020 19:11:31	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-497003/2-A			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
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\20200612-92367.b\06120022.D				
Lims ID:	LCS 280-497003/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	12-Jun-2020 19:11:31	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-497003/2				
Misc. Info.:	280-0092367-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 20:19:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1988	99.39

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

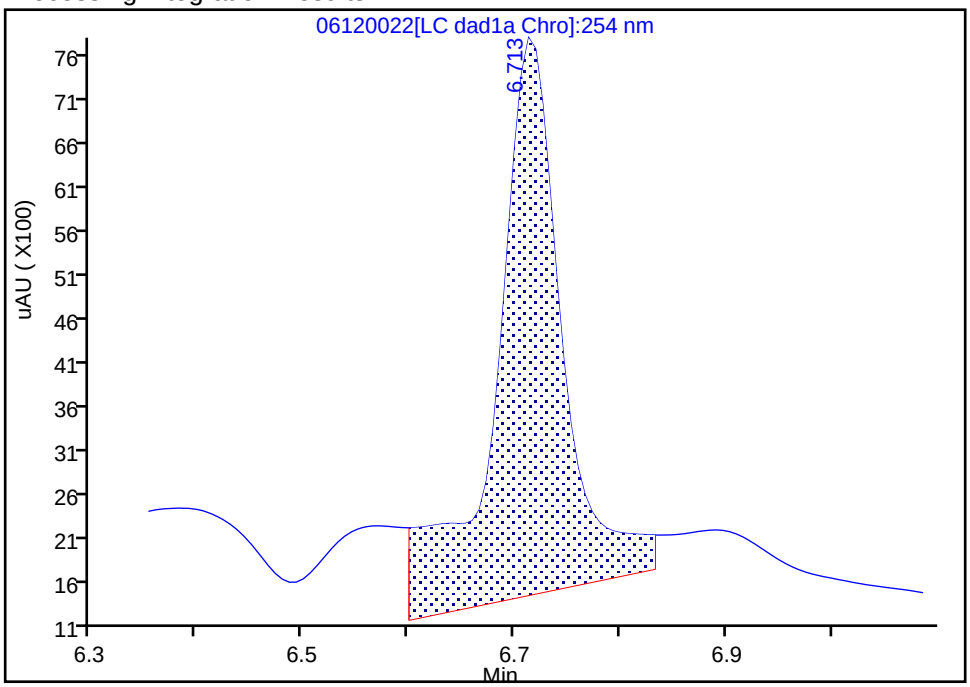
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120022.d				
Injection Date:	12-Jun-2020 19:11:31	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-497003/2-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

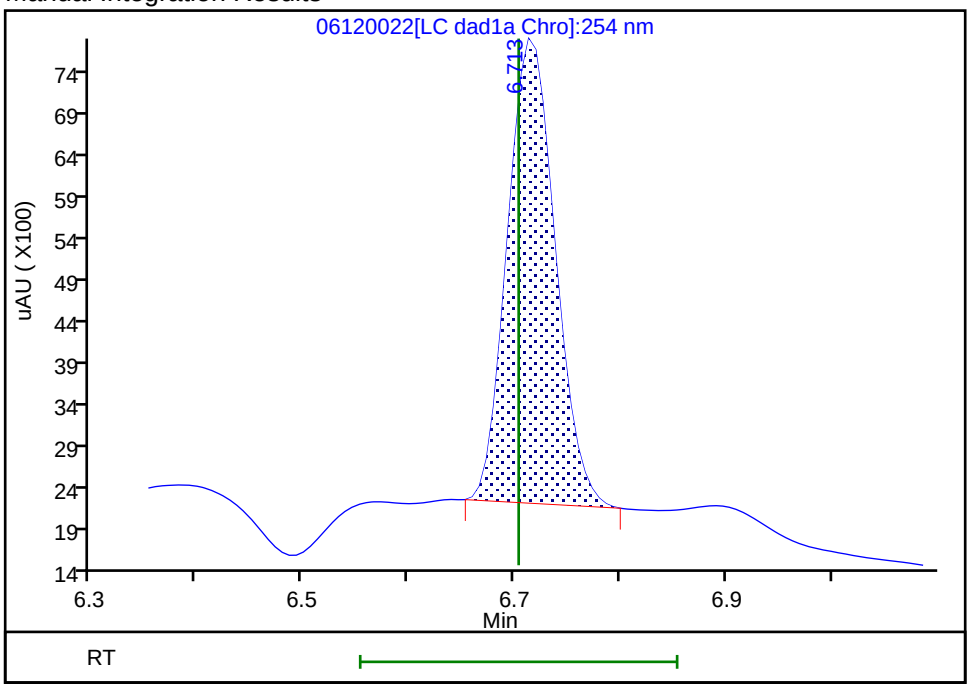
Processing Integration Results

RT: 6.71
Area: 27753
Amount: 0.322851
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 17284
Amount: 0.201065
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 20:19:08

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-497003/4-A
Matrix: Water
Lab File ID: 06120024.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 500(mL)
Date Analyzed: 06/12/2020 19:57
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.: 498537
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.18		2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120024.D				
Lims ID:	LCS 280-497003/4-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	12-Jun-2020 19:57:26	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-497003/4				
Misc. Info.:	280-0092367-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				
First Level Reviewer: zhangji		Date:	16-Jun-2020 20:19:38		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.623	6.621	0.002	40247	0.2002	0.1850	M
5 DNX	1	6.950	6.947	0.003	30222	0.2002	0.1976	M
6 MNX	1	7.390	7.394	-0.004	34549	0.2334	0.2179	
$ 9 1,2-Dinitrobenzene	1	8.770	8.777	-0.007	28264	0.2000	0.2045	

QC Flag Legend

Review Flags

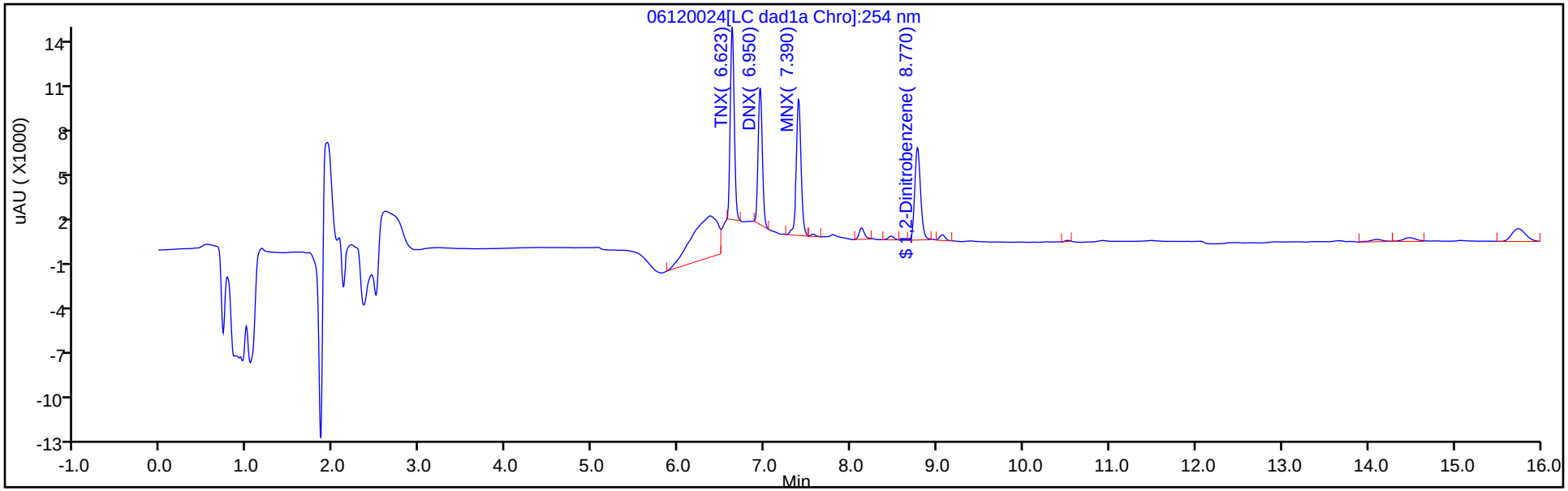
M - Manually Integrated

Report Date: 16-Jun-2020 20:56:07 Chrom Revision: 2.3 10-Jun-2020 22:46:48

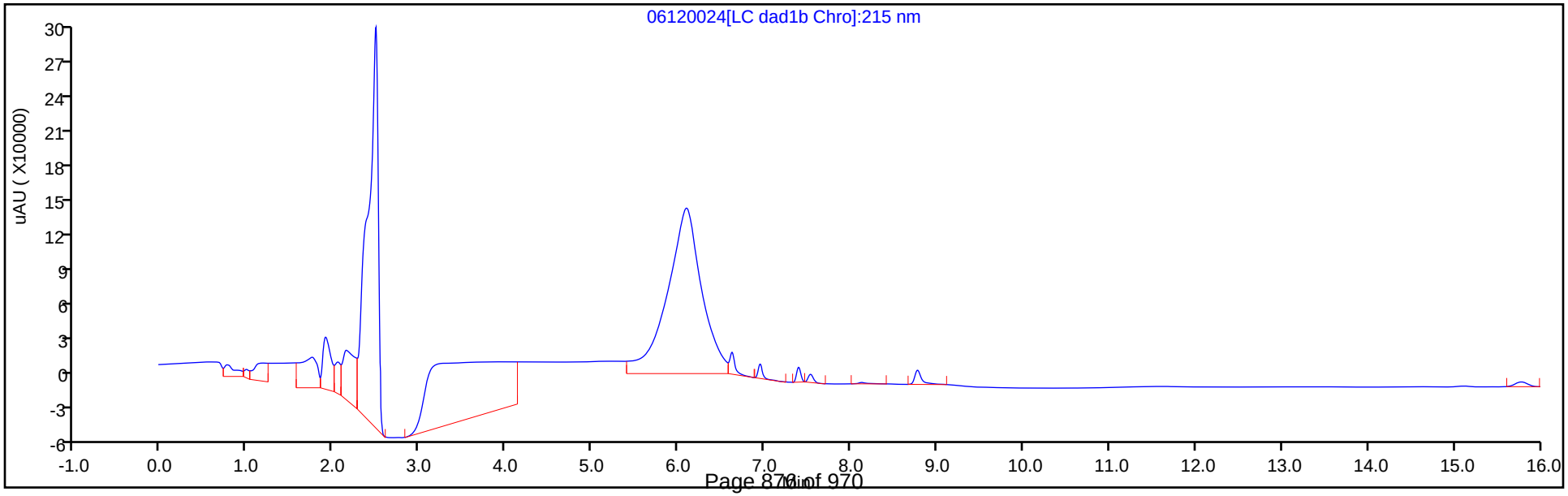
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120024.d				
Injection Date:	12-Jun-2020 19:57:26	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-497003/4-A			Worklist Smp#:	24
Client ID:					
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\20200612-92367.b\06120024.D				
Lims ID:	LCS 280-497003/4-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	12-Jun-2020 19:57:26	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-497003/4				
Misc. Info.:	280-0092367-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 20:19:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2045	102.25

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-498875/2-A
Matrix: Water
Lab File ID: 06170017.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 500(mL)
Date Analyzed: 06/17/2020 22:39
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.: 499165
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.35		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.23		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.28		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	2.08		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.10		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	2.03		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.74		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.91		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.82		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.88		0.41	0.40	0.10
2691-41-0	HMX	2.23	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	2.08		0.21	0.20	0.091
121-82-4	RDX	2.12		0.21	0.20	0.052
479-45-8	Tetryl	2.04		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170017.D
Lims ID: LCS 280-498875/2-A
Client ID:
Sample Type: LCS
Inject. Date: 17-Jun-2020 22:39:35 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-498875/2
Misc. Info.: 280-0092523-017
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:41:50

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.715	6.725	-0.010	19203	0.2000	0.2234	M
7 RDX	1	7.802	7.792	0.010	24779	0.2000	0.2125	
8 2,4,6-Trinitrophenol	1	8.102	8.099	0.003	19711	0.2000	0.2315	
$ 9 1,2-Dinitrobenzene	1	8.769	8.752	0.017	26158	0.2000	0.1893	
10 1,3,5-Trinitrobenzene	1	8.949	8.932	0.017	54233	0.2000	0.2355	
11 1,3-Dinitrobenzene	1	9.602	9.578	0.024	68307	0.2000	0.2227	
12 Nitrobenzene	1	9.982	9.952	0.030	41632	0.2000	0.2077	
14 Tetryl	1	10.302	10.258	0.044	36120	0.2000	0.2040	
15 Nitroglycerin	2	10.815	10.778	0.037	146237	2.00	2.15	
16 2,4,6-Trinitrotoluene	1	11.269	11.238	0.031	46507	0.2000	0.2279	
17 4-Amino-2,6-dinitrotoluene	1	11.442	11.398	0.044	31228	0.2000	0.1816	
18 2-Amino-4,6-dinitrotoluene	1	11.735	11.692	0.043	41099	0.2000	0.2026	
19 2,6-Dinitrotoluene	1	11.869	11.838	0.031	31401	0.2000	0.2101	
20 2,4-Dinitrotoluene	1	12.069	12.038	0.031	63166	0.2000	0.2081	
21 o-Nitrotoluene	1	12.895	12.865	0.030	23469	0.2000	0.1738	
22 p-Nitrotoluene	1	13.335	13.292	0.043	21222	0.2000	0.1878	
23 m-Nitrotoluene	1	13.929	13.885	0.044	27361	0.2000	0.1913	
24 PETN	2	15.042	14.965	0.077	158945	2.00	2.02	

QC Flag Legend

Review Flags

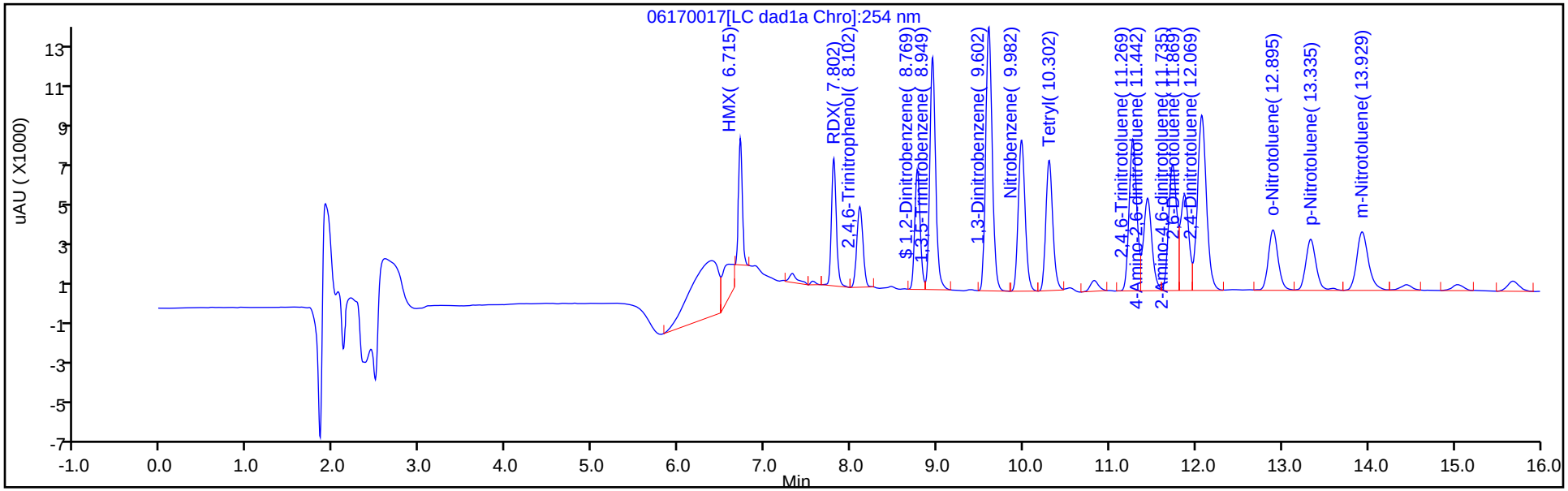
M - Manually Integrated

Report Date: 18-Jun-2020 20:46:02 Chrom Revision: 2.3 17-Jun-2020 19:07:08

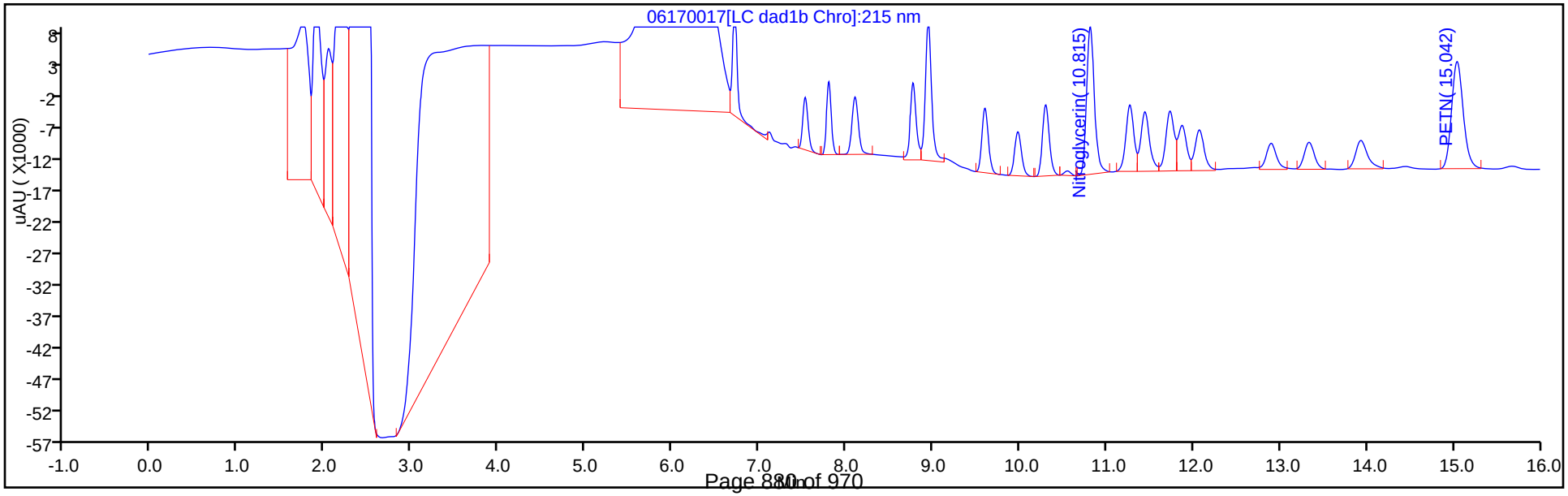
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170017.d				
Injection Date:	17-Jun-2020 22:39:35	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-498875/2-A			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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170017.D				
Lims ID:	LCS 280-498875/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	17-Jun-2020 22:39:35	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-498875/2				
Misc. Info.:	280-0092523-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 19:41:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1893	94.63

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

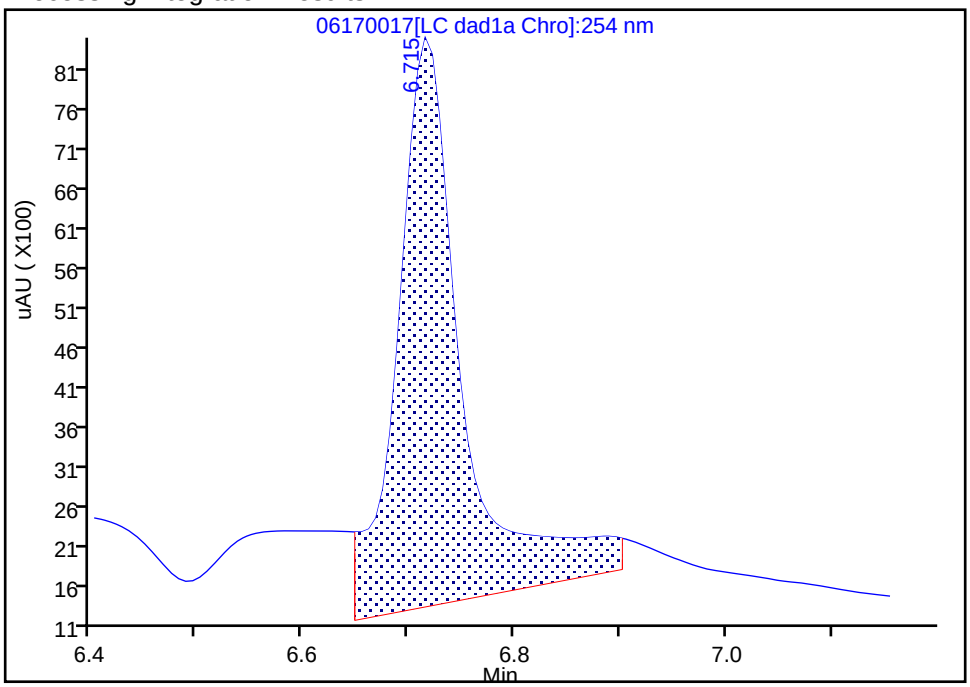
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170017.d				
Injection Date:	17-Jun-2020 22:39:35	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-498875/2-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

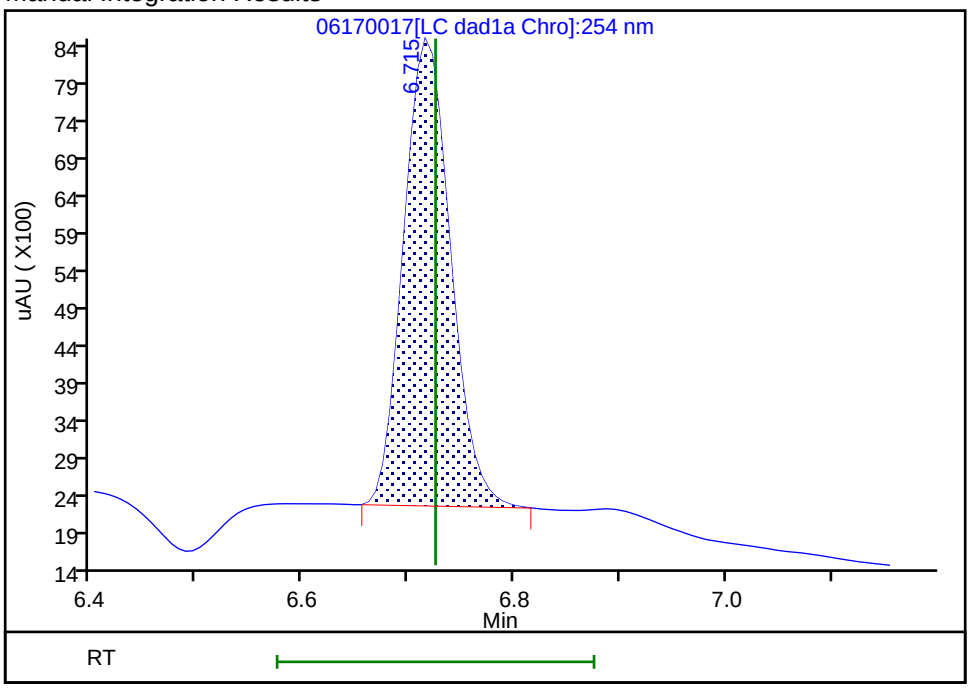
Processing Integration Results

RT: 6.72
Area: 30681
Amount: 0.356913
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 19203
Amount: 0.223389
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:41:48

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-498875/3-A
Matrix: Water
Lab File ID: 06170018.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 500(mL)
Date Analyzed: 06/17/2020 23:02
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.: 499165
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.23		2.0	0.40	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\20200617-92523.b\06170018.D				
Lims ID:	LCS 280-498875/3-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	17-Jun-2020 23:02:41	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-498875/3				
Misc. Info.:	280-0092523-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1013	

First Level Reviewer: zhangji Date: 18-Jun-2020 14:11:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.618	6.626	-0.008	38899	0.2002	0.1788	M
5 DNX	1	6.945	6.953	-0.008	29522	0.2002	0.1930	M
6 MNX	1	7.392	7.400	-0.008	35361	0.2334	0.2230	
$ 9 1,2-Dinitrobenzene	1	8.772	8.752	0.020	25960	0.2000	0.1878	

QC Flag Legend

Review Flags

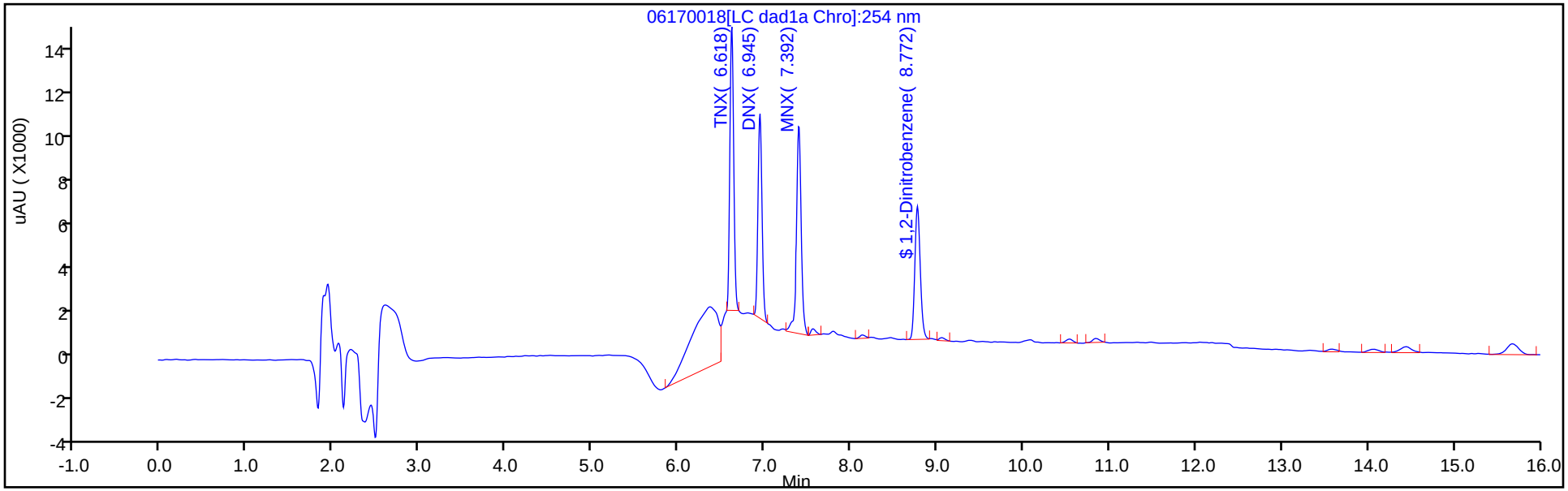
M - Manually Integrated

Report Date: 18-Jun-2020 20:46:02 Chrom Revision: 2.3 17-Jun-2020 19:07:08

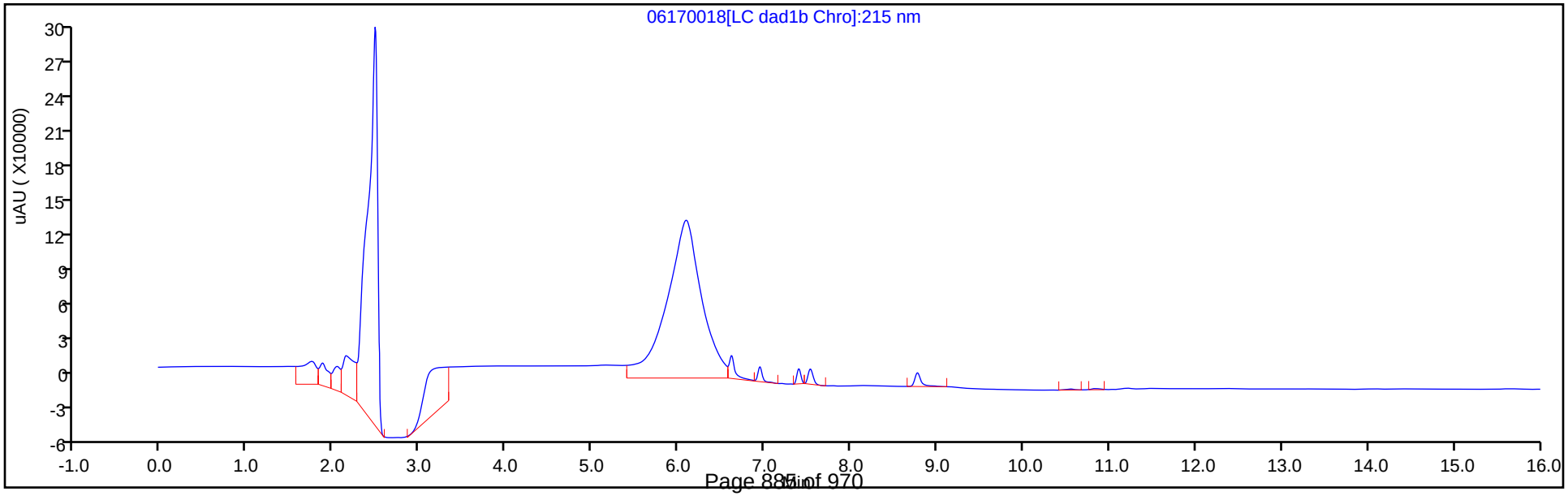
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170018.d				
Injection Date:	17-Jun-2020 23:02:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-498875/3-A			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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170018.D				
Lims ID:	LCS 280-498875/3-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	17-Jun-2020 23:02:41	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-498875/3				
Misc. Info.:	280-0092523-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				
First Level Reviewer: zhangji		Date:	18-Jun-2020 14:11:12		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1878	93.91

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-496861/3-A
Matrix: Water
Lab File ID: 06110024.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 500(mL)
Date Analyzed: 06/11/2020 21:29
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.: 498360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.18		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.05		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.11		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.93		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.03		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.91		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.74		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.94		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.75		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.83		0.41	0.40	0.10
2691-41-0	HMX	2.03	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.97		0.21	0.20	0.091
121-82-4	RDX	2.03		0.21	0.20	0.052
479-45-8	Tetryl	1.96		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\20200611-92324.b\06110024.D
Lims ID: LCSD 280-496861/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jun-2020 21:29:42 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-496861/
Misc. Info.: 280-0092324-024
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji Date: 12-Jun-2020 11:09:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.706	6.696	0.010	17462	0.2000	0.2031	M
7 RDX	1	7.779	7.776	0.003	23685	0.2000	0.2031	
8 2,4,6-Trinitrophenol	1	8.073	8.069	0.004	18273	0.2000	0.2146	
$ 9 1,2-Dinitrobenzene	1	8.746	8.743	0.003	26467	0.2000	0.1915	
10 1,3,5-Trinitrobenzene	1	8.926	8.916	0.010	50275	0.2000	0.2183	
11 1,3-Dinitrobenzene	1	9.572	9.569	0.003	63021	0.2000	0.2055	
12 Nitrobenzene	1	9.952	9.949	0.003	39524	0.2000	0.1972	
14 Tetryl	1	10.259	10.256	0.003	34749	0.2000	0.1963	
15 Nitroglycerin	2	10.772	10.762	0.010	139668	2.00	2.05	
16 2,4,6-Trinitrotoluene	1	11.239	11.222	0.017	43107	0.2000	0.2113	
17 4-Amino-2,6-dinitrotoluene	1	11.392	11.376	0.016	30114	0.2000	0.1753	
18 2-Amino-4,6-dinitrotoluene	1	11.686	11.662	0.024	38708	0.2000	0.1909	
19 2,6-Dinitrotoluene	1	11.832	11.809	0.023	30285	0.2000	0.2026	
20 2,4-Dinitrotoluene	1	12.032	12.009	0.023	58556	0.2000	0.1929	
21 o-Nitrotoluene	1	12.859	12.842	0.017	23447	0.2000	0.1736	
22 p-Nitrotoluene	1	13.292	13.276	0.016	20732	0.2000	0.1835	
23 m-Nitrotoluene	1	13.886	13.862	0.024	27707	0.2000	0.1937	
24 PETN	2	14.992	14.969	0.023	154292	2.00	1.96	

QC Flag Legend

Review Flags

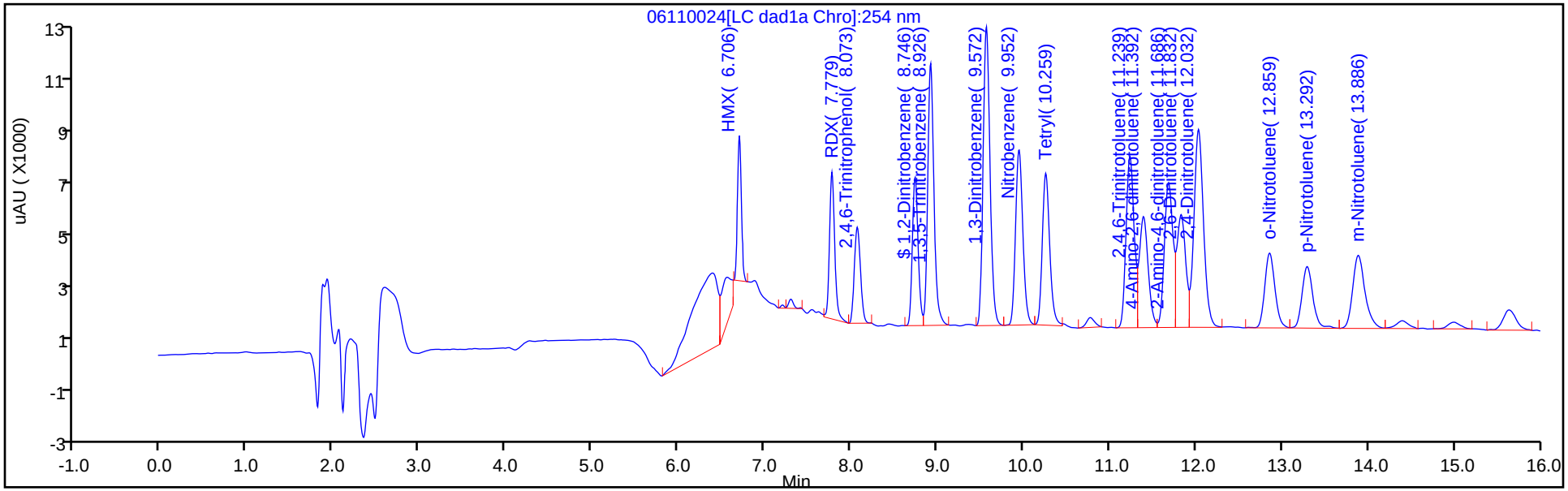
M - Manually Integrated

Report Date: 12-Jun-2020 12:39:54 Chrom Revision: 2.3 10-Jun-2020 22:46:48

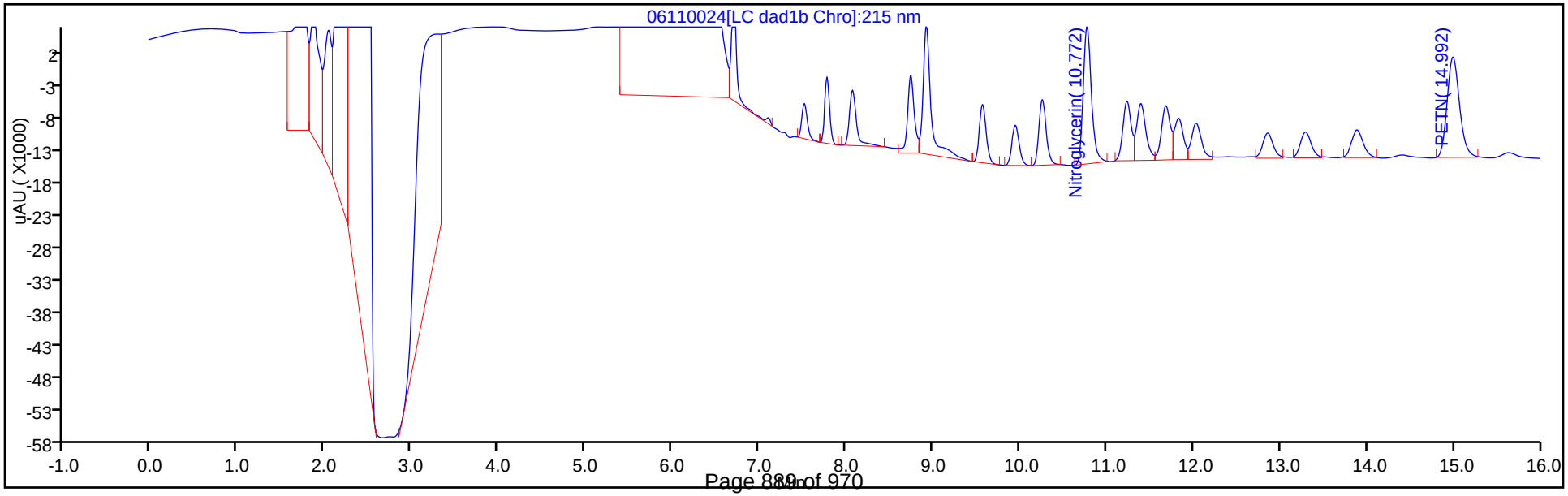
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110024.d				
Injection Date:	11-Jun-2020 21:29:42	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-496861/3-A			Worklist Smp#:	24
Client ID:					
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\20200611-92324.b\06110024.D				
Lims ID:	LCSD 280-496861/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	11-Jun-2020 21:29:42	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-496861/				
Misc. Info.:	280-0092324-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				
First Level Reviewer: zhangji		Date:	12-Jun-2020 11:09:31		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1915	95.75

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

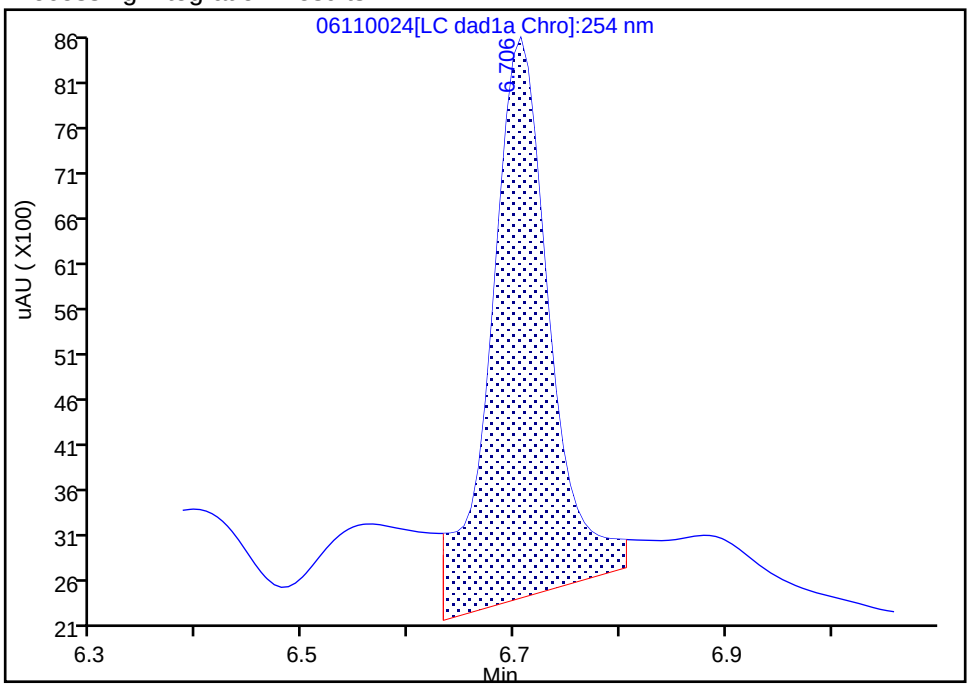
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110024.d				
Injection Date:	11-Jun-2020 21:29:42	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-496861/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

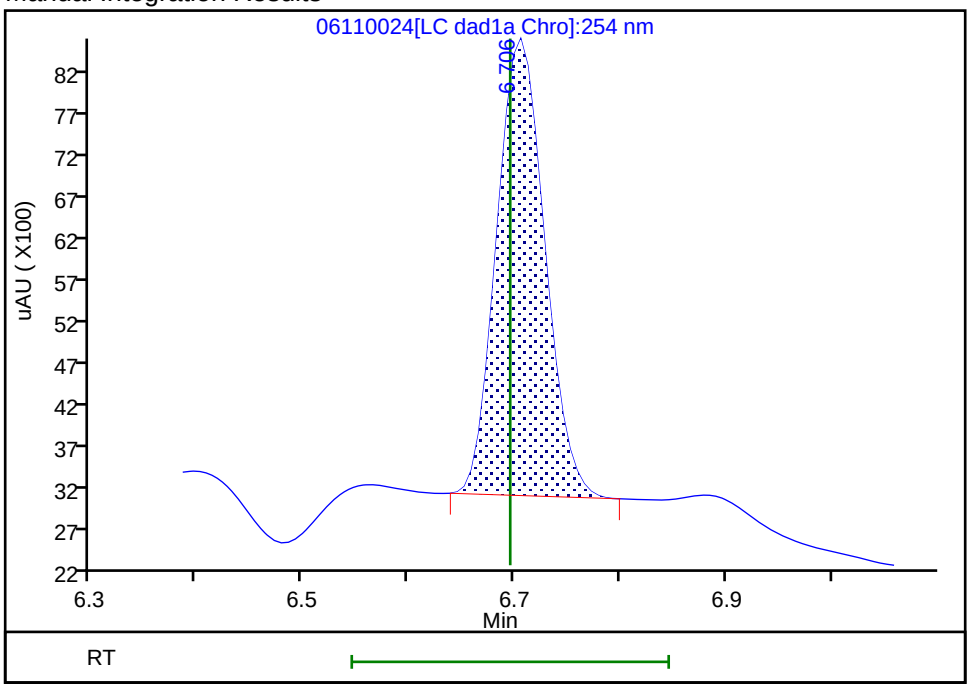
Processing Integration Results

RT: 6.71
Area: 24122
Amount: 0.280612
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 17462
Amount: 0.203136
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:09:27

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-497003/3-A
Matrix: Water
Lab File ID: 06120023.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 500(mL)
Date Analyzed: 06/12/2020 19:34
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.: 498537
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.27		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.06		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.14		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.93		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.08		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.86		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.75		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.89		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.72		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.83		0.41	0.40	0.10
2691-41-0	HMX	2.05	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.95		0.21	0.20	0.091
121-82-4	RDX	1.99		0.21	0.20	0.052
479-45-8	Tetryl	1.98		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	99		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120023.D				
Lims ID:	LCSD 280-497003/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	12-Jun-2020 19:34:28	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-497003/				
Misc. Info.:	280-0092367-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				
First Level Reviewer: zhangji		Date:	16-Jun-2020 20:19:22		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.712	6.704	0.008	17658	0.2000	0.2054	M
7 RDX	1	7.799	7.797	0.002	23158	0.2000	0.1986	
8 2,4,6-Trinitrophenol	1	8.099	8.111	-0.012	20942	0.2000	0.2460	
$ 9 1,2-Dinitrobenzene	1	8.766	8.777	-0.011	27504	0.2000	0.1990	
10 1,3,5-Trinitrobenzene	1	8.946	8.957	-0.011	52258	0.2000	0.2269	
11 1,3-Dinitrobenzene	1	9.599	9.617	-0.018	63138	0.2000	0.2059	
12 Nitrobenzene	1	9.979	10.004	-0.025	39075	0.2000	0.1950	
14 Tetryl	1	10.299	10.330	-0.031	35038	0.2000	0.1979	
15 Nitroglycerin	2	10.812	10.850	-0.038	139974	2.00	2.05	
16 2,4,6-Trinitrotoluene	1	11.279	11.310	-0.031	43605	0.2000	0.2137	
17 4-Amino-2,6-dinitrotoluene	1	11.446	11.484	-0.038	29509	0.2000	0.1720	
18 2-Amino-4,6-dinitrotoluene	1	11.746	11.784	-0.038	37689	0.2000	0.1858	
19 2,6-Dinitrotoluene	1	11.886	11.924	-0.038	31157	0.2000	0.2085	
20 2,4-Dinitrotoluene	1	12.086	12.124	-0.038	58720	0.2000	0.1934	
21 o-Nitrotoluene	1	12.926	12.977	-0.051	23624	0.2000	0.1749	
22 p-Nitrotoluene	1	13.366	13.424	-0.058	20638	0.2000	0.1826	
23 m-Nitrotoluene	1	13.966	14.030	-0.064	27103	0.2000	0.1895	
24 PETN	2	15.092	15.164	-0.072	166221	2.00	2.11	

QC Flag Legend

Review Flags

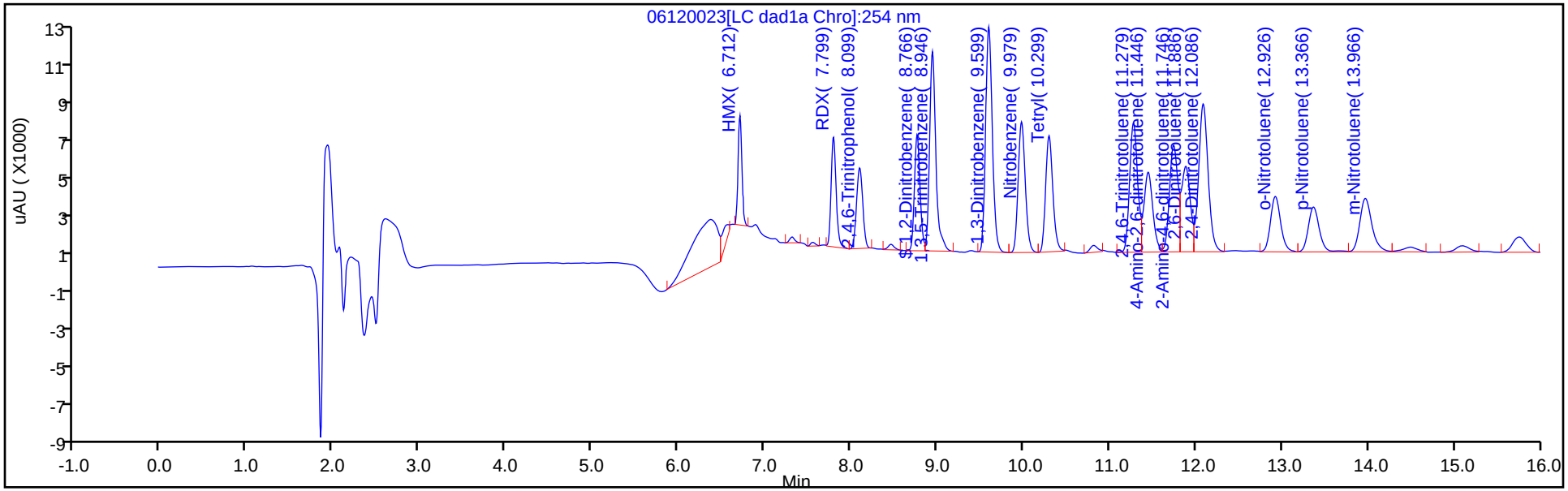
M - Manually Integrated

Report Date: 16-Jun-2020 20:56:07 Chrom Revision: 2.3 10-Jun-2020 22:46:48

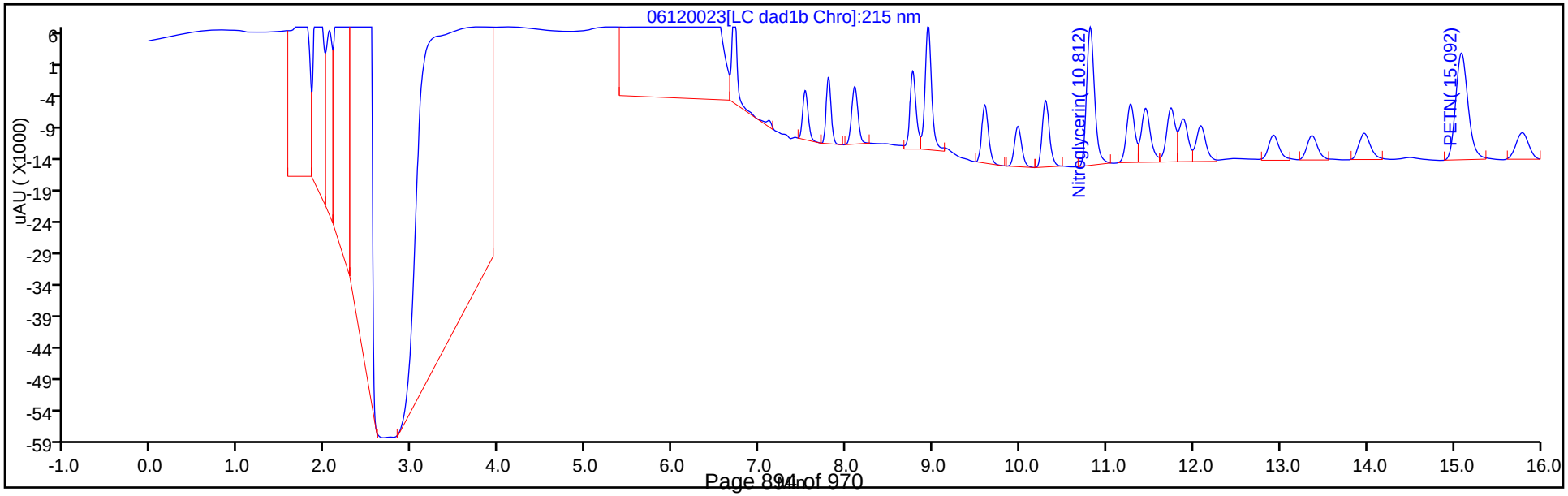
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120023.d				
Injection Date:	12-Jun-2020 19:34:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-497003/3-A			Worklist Smp#:	23
Client ID:					
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\20200612-92367.b\06120023.D				
Lims ID:	LCSD 280-497003/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	12-Jun-2020 19:34:28	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-497003/				
Misc. Info.:	280-0092367-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				

First Level Reviewer: zhangji Date: 16-Jun-2020 20:19:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1990	99.50

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

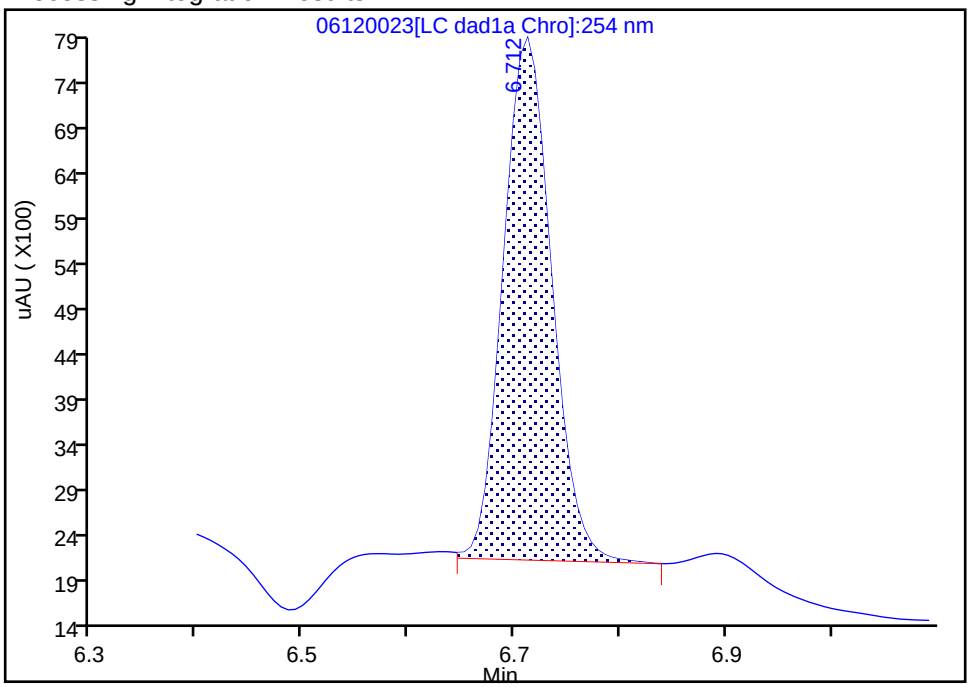
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120023.d				
Injection Date:	12-Jun-2020 19:34:28	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-497003/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

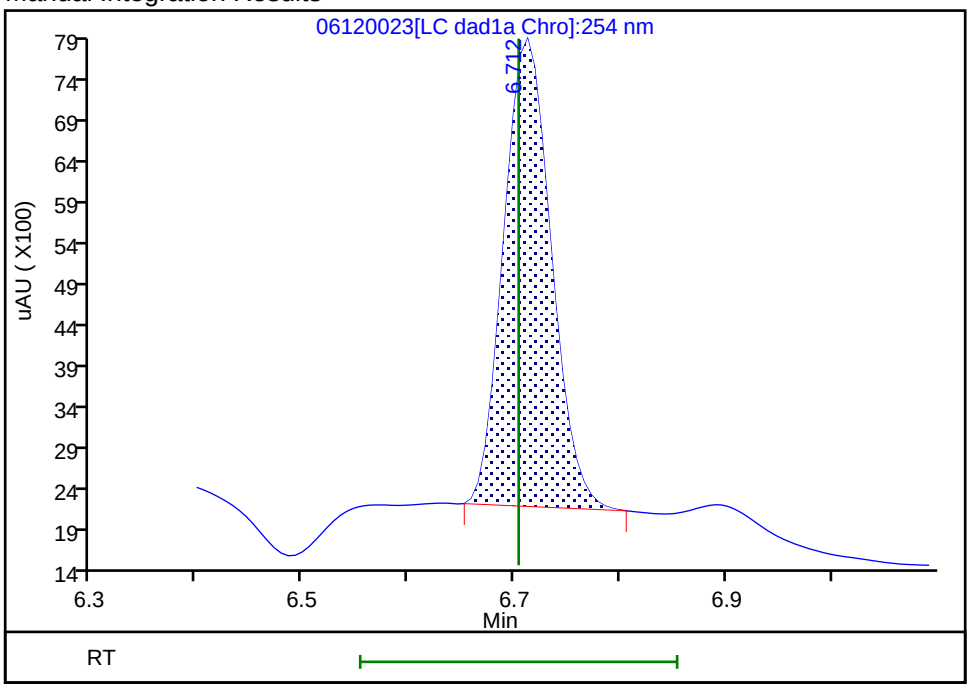
Processing Integration Results

RT: 6.71
Area: 18149
Amount: 0.211128
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 17658
Amount: 0.205416
Amount Units: ug/mL



Reviewer: zhangji, 16-Jun-2020 20:19:20

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-497003/5-A
Matrix: Water
Lab File ID: 06120025.D
Analysis Method: 8330A
Date Collected:
Extraction Method: 3535
Date Extracted: 06/02/2020 12:47
Sample wt/vol: 500(mL)
Date Analyzed: 06/12/2020 20:20
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.: 498537
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.22		2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	103		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120025.D				
Lims ID:	LCSD 280-497003/5-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	12-Jun-2020 20:20:23	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-497003/				
Misc. Info.:	280-0092367-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				
First Level Reviewer: zhangji		Date:	16-Jun-2020 20:19:55		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.618	6.621	-0.003	40242	0.2002	0.1849	M
5 DNX	1	6.945	6.947	-0.002	30131	0.2002	0.1970	M
6 MNX	1	7.385	7.394	-0.009	35243	0.2334	0.2223	
$ 9 1,2-Dinitrobenzene	1	8.765	8.777	-0.012	28416	0.2000	0.2056	

QC Flag Legend

Review Flags

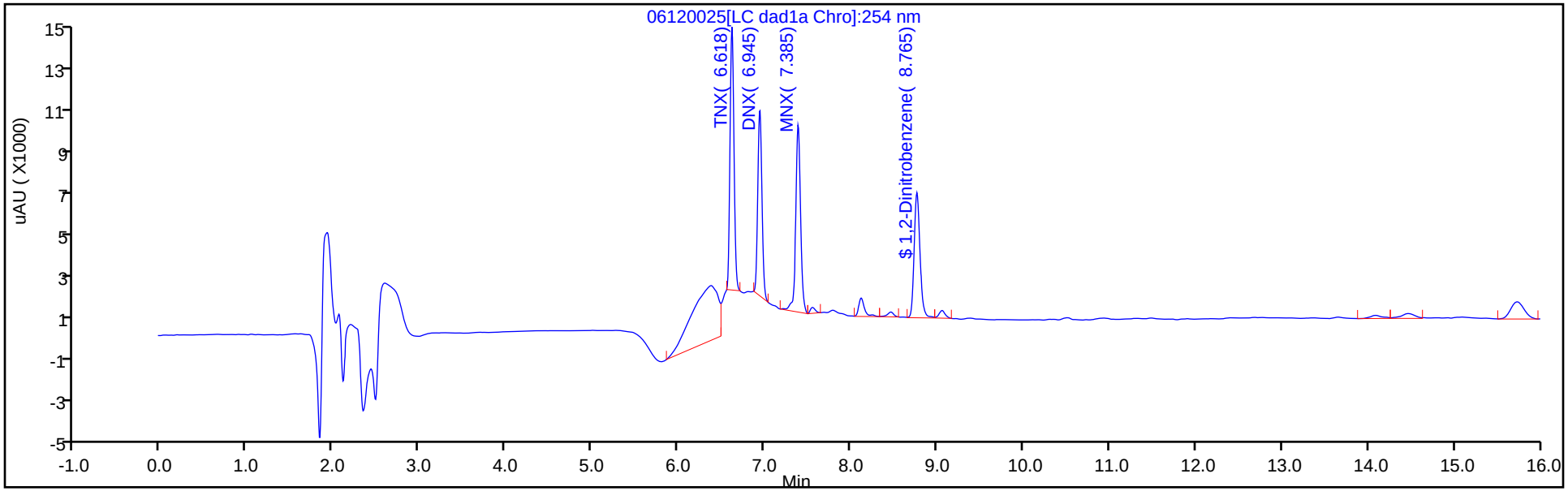
M - Manually Integrated

Report Date: 16-Jun-2020 20:56:07 Chrom Revision: 2.3 10-Jun-2020 22:46:48

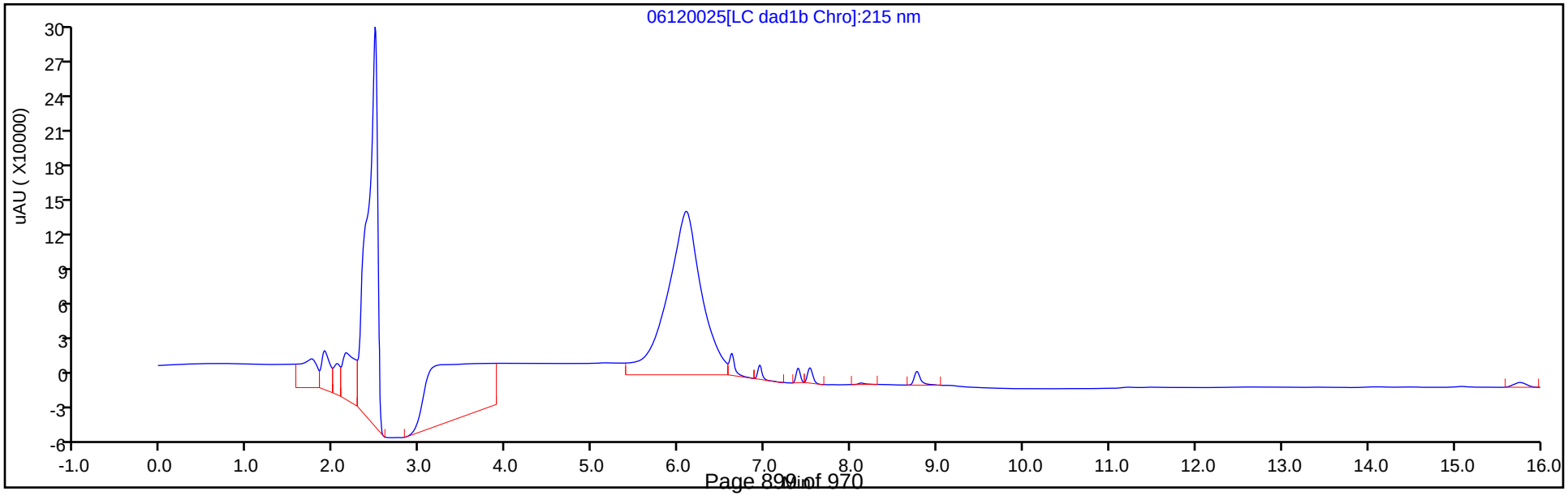
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120025.d				
Injection Date:	12-Jun-2020 20:20:23	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-497003/5-A			Worklist Smp#:	25
Client ID:					
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\20200612-92367.b\06120025.D				
Lims ID:	LCSD 280-497003/5-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	12-Jun-2020 20:20:23	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-497003/				
Misc. Info.:	280-0092367-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	16-Jun-2020 20:48:41	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1024				
First Level Reviewer: zhangji		Date:	16-Jun-2020 20:19:55		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2056	102.80

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 MS
Lab Sample ID: 280-137006-4 MS
Matrix: Water
Lab File ID: 06110037.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 460.9(mL)
Date Analyzed: 06/12/2020 02:28
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.: 498360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.14	J M	2.2	0.43	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	89		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110037.D
Lims ID: 280-137006-A-4-B MS
Client ID: OS001-DP03-45
Sample Type: MS
Inject. Date: 12-Jun-2020 02:28:41 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-A-4-B
Misc. Info.: 280-0092324-037
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji Date: 12-Jun-2020 11:16:15

	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		6.574				ND	U
	2 TNX	1	6.617	6.627	-0.010	35225	0.2002	0.1619	M
	3 HMX	1		6.696				ND	
	4 2,4-diamino-6-nitrotoluene	1		6.760				ND	
	5 DNX	1	6.944	6.954	-0.010	33029	0.2002	0.2160	M
	6 MNX	1	7.390	7.407	-0.017	31264	0.2334	0.1972	M
	7 RDX	1	7.784	7.776	0.008	2255		0.0193	M
	8 2,4,6-Trinitrophenol	1		8.069				ND	
$	9 1,2-Dinitrobenzene	1	8.777	8.743	0.034	24542	0.2000	0.1776	
	10 1,3,5-Trinitrobenzene	1	8.950	8.916	0.034	818091		3.55	E
	11 1,3-Dinitrobenzene	1		9.569				ND	
	12 Nitrobenzene	1		9.949				ND	
	14 Tetryl	1	10.237	10.256	-0.019	95769		0.5410	
	13 3,5-Dinitroaniline	1		10.273				ND	
	15 Nitroglycerin	2		10.762				ND	
	16 2,4,6-Trinitrotoluene	1	11.277	11.222	0.055	38579		0.1891	M
	17 4-Amino-2,6-dinitrotoluene	1		11.376				ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.662				ND	
	19 2,6-Dinitrotoluene	1		11.809				ND	U
	20 2,4-Dinitrotoluene	1		12.009				ND	
	21 o-Nitrotoluene	1		12.842				ND	
	22 p-Nitrotoluene	1	13.277	13.276	0.001	2043		0.0181	M
	23 m-Nitrotoluene	1		13.862				ND	
	24 PETN	2		14.969				ND	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

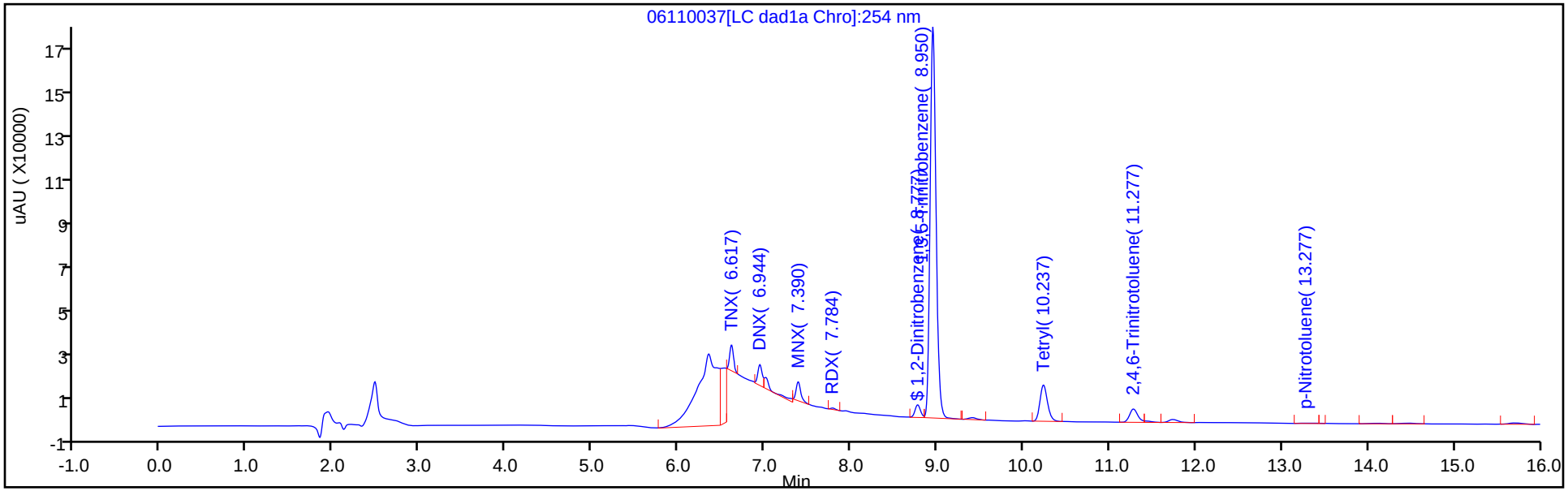
U - Marked Undetected

Report Date: 12-Jun-2020 12:39:49 Chrom Revision: 2.3 10-Jun-2020 22:46:48

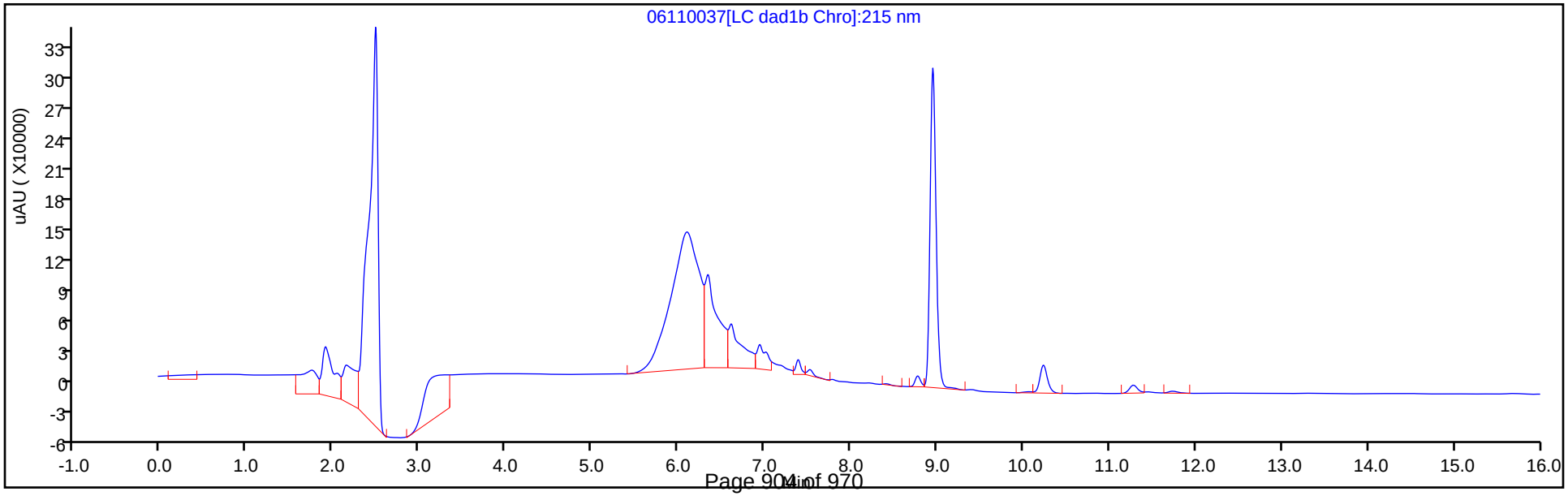
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110037.d				
Injection Date:	12-Jun-2020 02:28:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-A-4-B MS			Worklist Smp#:	37
Client ID:	OS001-DP03-45				
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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110037.D				
Lims ID:	280-137006-A-4-B MS				
Client ID:	OS001-DP03-45				
Sample Type:	MS				
Inject. Date:	12-Jun-2020 02:28:41	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-4-B				
Misc. Info.:	280-0092324-037				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				
First Level Reviewer: zhangji		Date:	12-Jun-2020 11:16:15		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1776	88.78

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

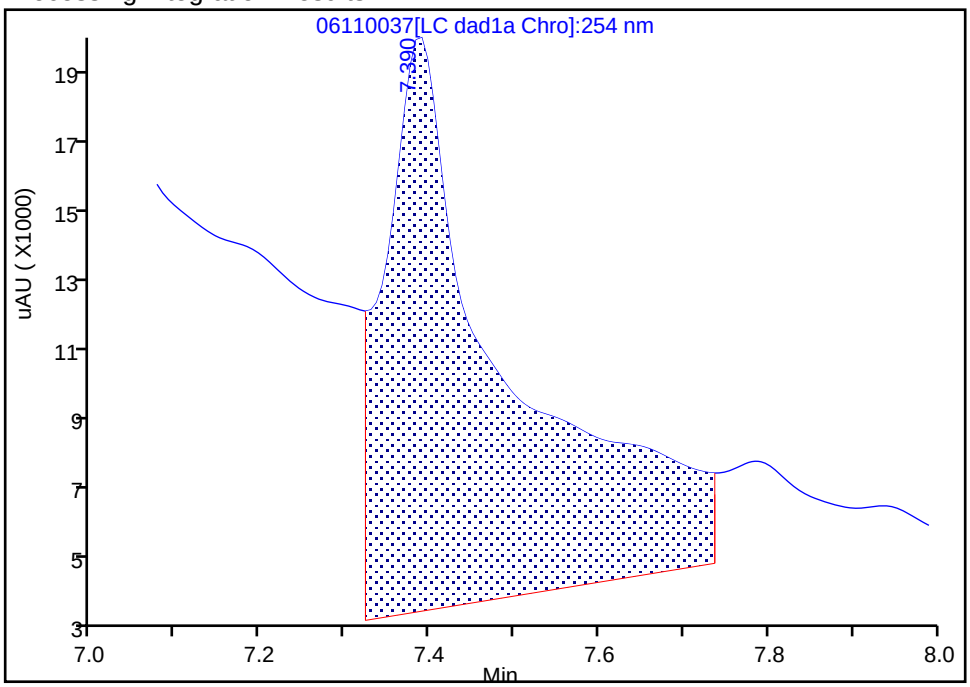
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110037.d				
Injection Date:	12-Jun-2020 02:28:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
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

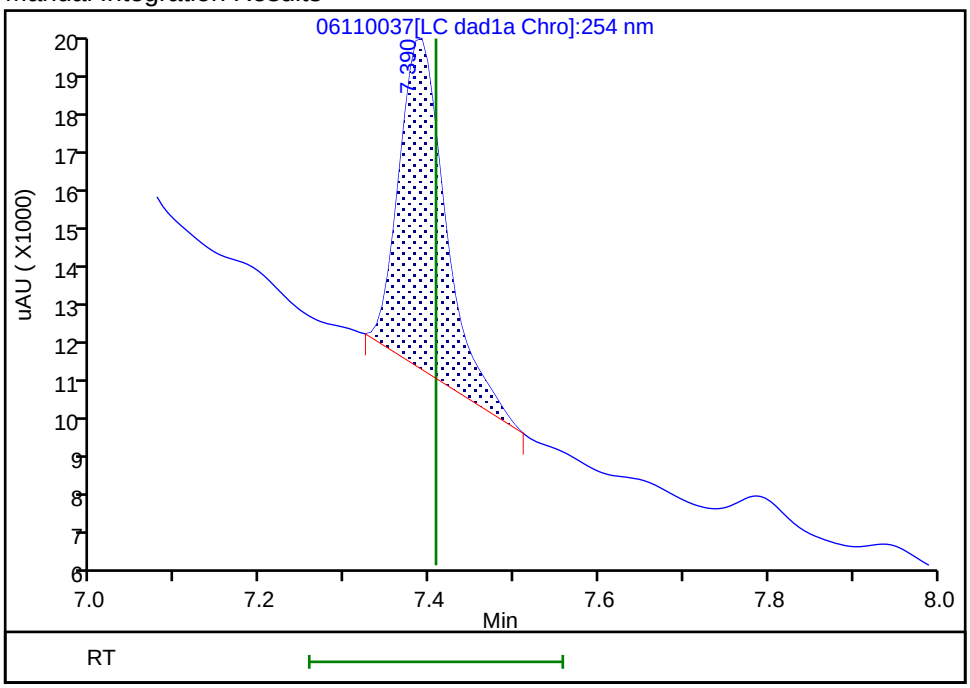
Processing Integration Results

RT: 7.39
Area: 156533
Amount: 0.987315
Amount Units: ug/mL



Manual Integration Results

RT: 7.39
Area: 31264
Amount: 0.197194
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:17:47

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 MS RE
Lab Sample ID: 280-137006-4 MS RE
Matrix: Water
Lab File ID: 06170020.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 464.5(mL)
Date Analyzed: 06/17/2020 23:48
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.: 499165
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	2.25	H	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	4.33	H	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	2.12	H	0.11	0.086	0.029
606-20-2	2,6-Dinitrotoluene	2.07	H	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	2.69	H	0.12	0.11	0.055
88-72-2	2-Nitrotoluene	1.95	H	0.23	0.22	0.092
99-08-1	3-Nitrotoluene	0.938	H J1	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	2.12	H	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	2.22	H	0.44	0.43	0.11
2691-41-0	HMX	2.32	H M	0.23	0.22	0.094
98-95-3	Nitrobenzene	2.19	H	0.23	0.22	0.098
121-82-4	RDX	2.11	H M	0.23	0.22	0.055
479-45-8	Tetryl	9.43	H J1 M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	91		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170020.D
Lims ID: 280-137006-B-4-B MS
Client ID: OS001-DP03-45
Sample Type: MS
Inject. Date: 17-Jun-2020 23:48:40 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-B-4-B
Misc. Info.: 280-0092523-020
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:44:08

	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		6.579				ND	U
	2 TNX	1		6.626				ND	
	3 HMX	1	6.718	6.725	-0.007	18500	0.2000	0.2152	M
	4 2,4-diamino-6-nitrotoluene	1		6.759				ND	
	5 DNX	1	6.991	6.953	0.038	26481		0.1732	M
	6 MNX	1		7.400				ND	U
	7 RDX	1	7.798	7.792	0.006	22849	0.2000	0.1959	M
	8 2,4,6-Trinitrophenol	1	8.084	8.099	-0.015	16937	0.2000	0.1990	
$	9 1,2-Dinitrobenzene	1	8.764	8.752	0.012	25284	0.2000	0.1829	
	10 1,3,5-Trinitrobenzene	1	8.938	8.932	0.006	822716	0.2000	3.57	E
	11 1,3-Dinitrobenzene	1	9.597	9.578	0.019	64046	0.2000	0.2088	
	12 Nitrobenzene	1	9.977	9.952	0.025	40820	0.2000	0.2037	
	13 3,5-Dinitroaniline	1		10.212				ND	a
	14 Tetryl	1	10.224	10.258	-0.034	155064	0.2000	0.8759	a
	15 Nitroglycerin	2	10.804	10.778	0.026	133062	2.00	1.95	
	16 2,4,6-Trinitrotoluene	1	11.264	11.238	0.026	82112	0.2000	0.4024	
	17 4-Amino-2,6-dinitrotoluene	1	11.437	11.398	0.039	33919	0.2000	0.1967	
	18 2-Amino-4,6-dinitrotoluene	1	11.724	11.692	0.032	50623	0.2000	0.2496	
	19 2,6-Dinitrotoluene	1	11.864	11.838	0.026	28778	0.2000	0.1926	
	20 2,4-Dinitrotoluene	1	12.064	12.038	0.026	59695	0.2000	0.1966	
	21 o-Nitrotoluene	1	12.884	12.865	0.019	24446	0.2000	0.1810	
	22 p-Nitrotoluene	1	13.311	13.292	0.019	23333	0.2000	0.2065	
	23 m-Nitrotoluene	1	13.891	13.885	0.006	12466	0.2000	0.0872	
	24 PETN	2	14.957	14.965	-0.008	142558	2.00	1.81	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

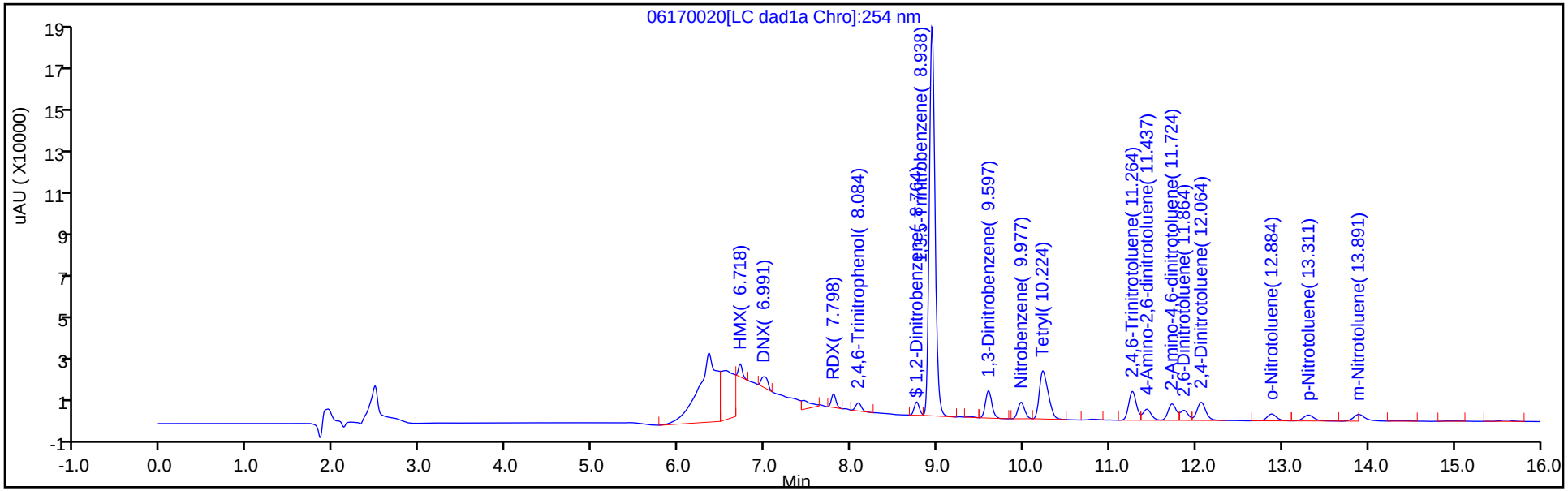
a - User Assigned ID

Report Date: 18-Jun-2020 20:46:04 Chrom Revision: 2.3 17-Jun-2020 19:07:08

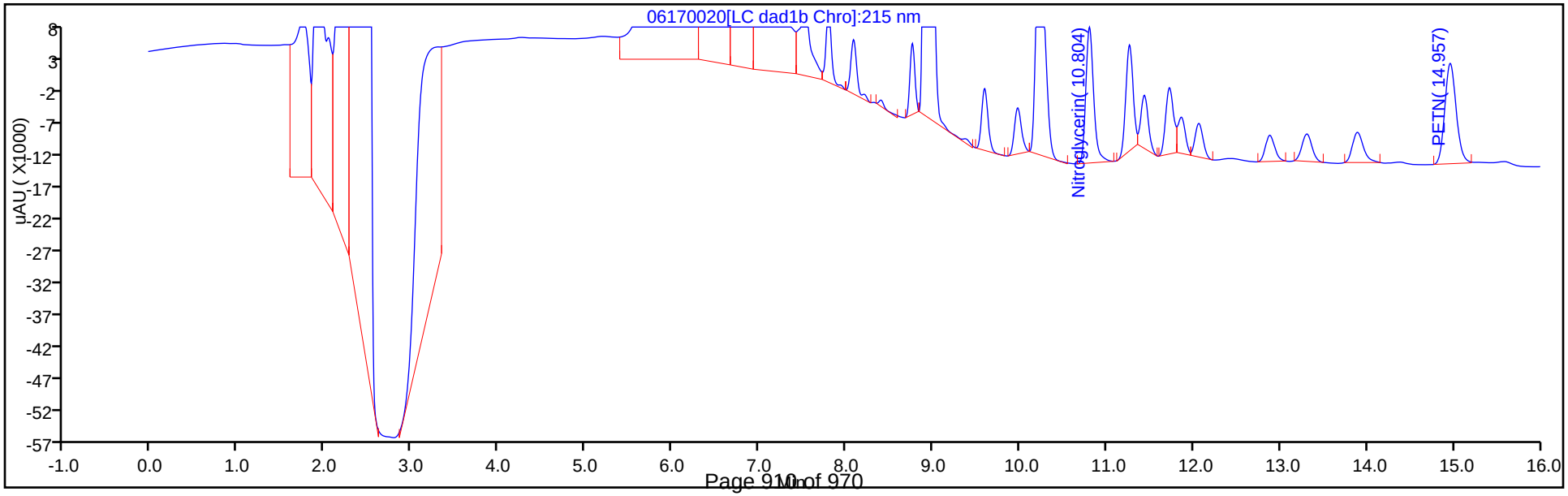
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170020.d				
Injection Date:	17-Jun-2020 23:48:40	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-4-B MS			Worklist Smp#:	20
Client ID:	OS001-DP03-45				
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\20200617-92523.b\06170020.D				
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Sample Type:	MS				
Inject. Date:	17-Jun-2020 23:48:40	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-4-B				
Misc. Info.:	280-0092523-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 19:44:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1829	91.47

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

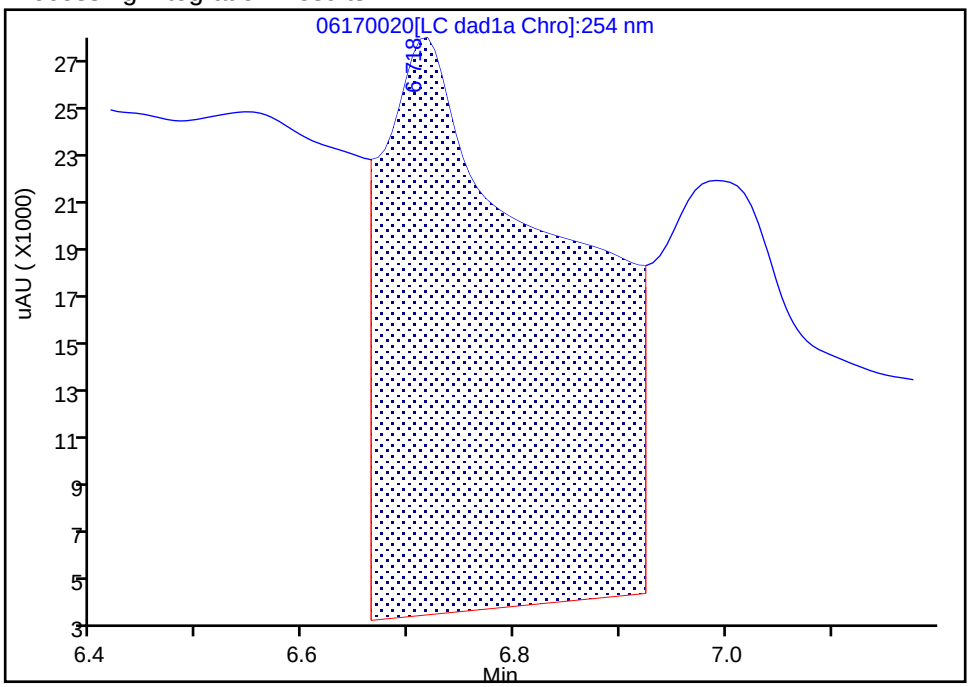
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170020.d				
Injection Date:	17-Jun-2020 23:48:40	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

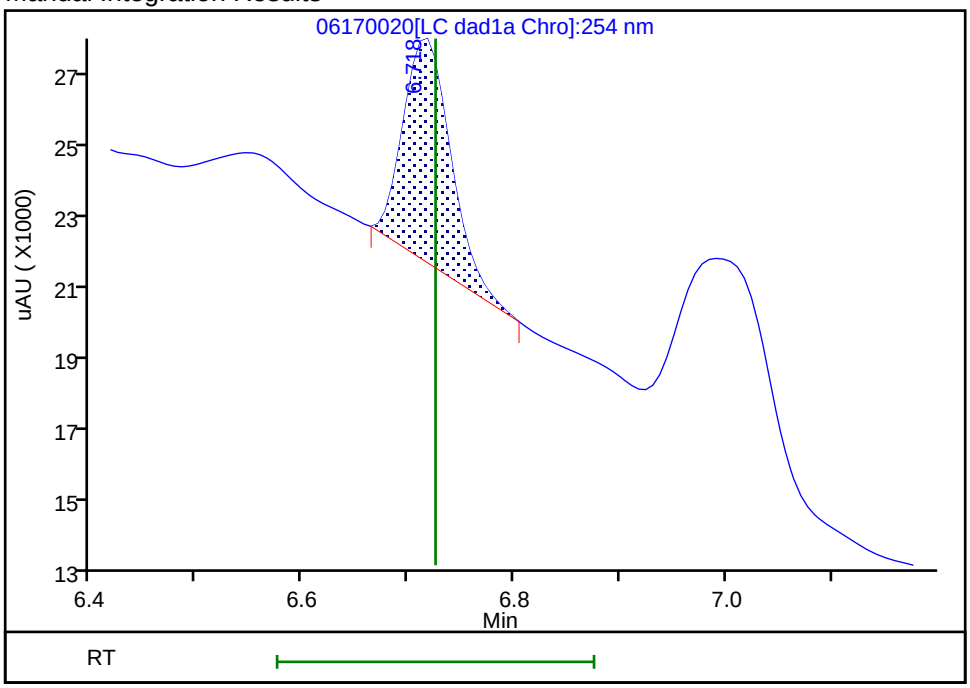
Processing Integration Results

RT: 6.72
Area: 268519
Amount: 3.123688
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 18500
Amount: 0.215211
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:43:36

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

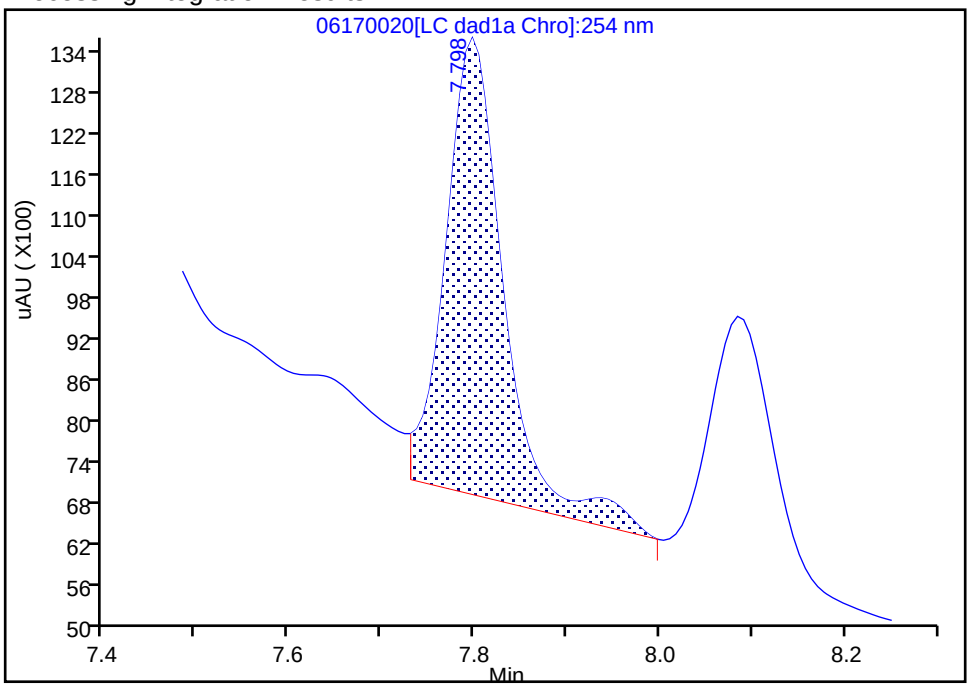
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170020.d				
Injection Date:	17-Jun-2020 23:48:40	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

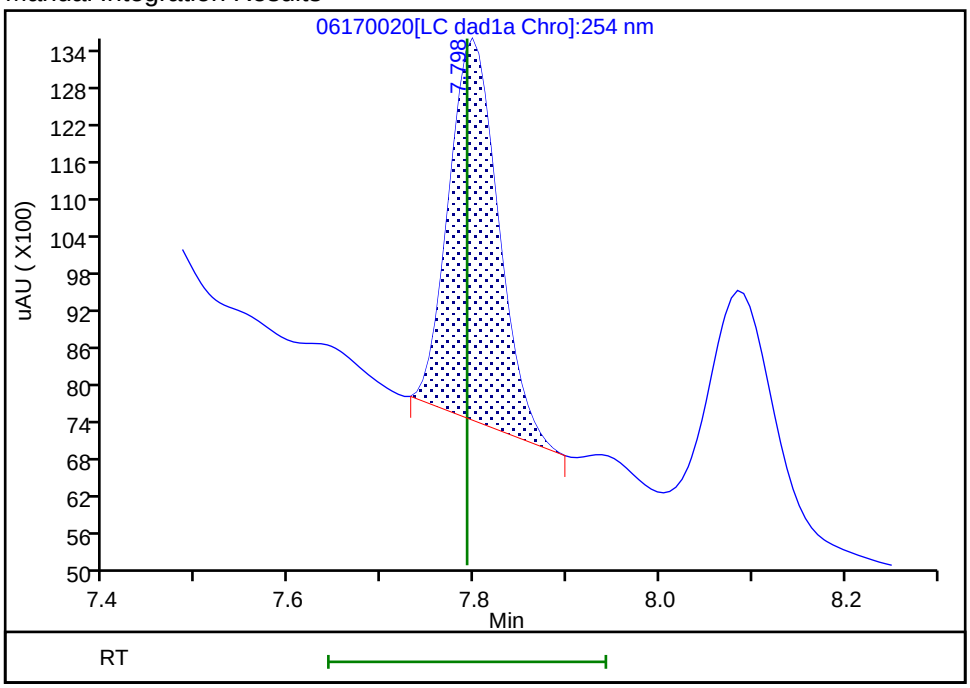
Processing Integration Results

RT: 7.80
Area: 29051
Amount: 0.249123
Amount Units: ug/mL



Manual Integration Results

RT: 7.80
Area: 22849
Amount: 0.195939
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:45:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

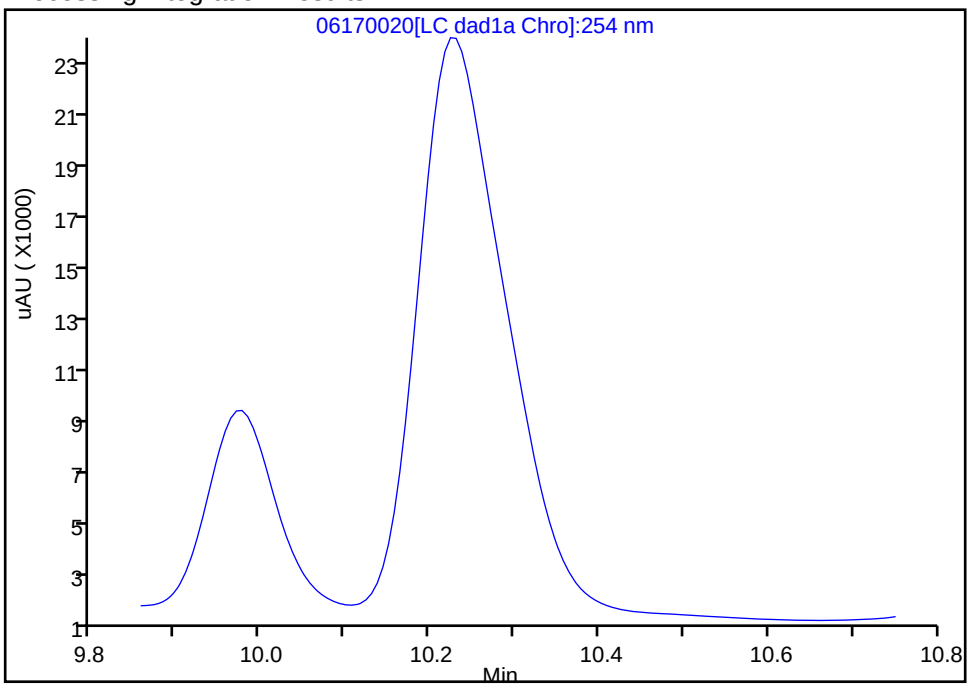
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170020.d				
Injection Date:	17-Jun-2020 23:48:40	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8

Signal: 1

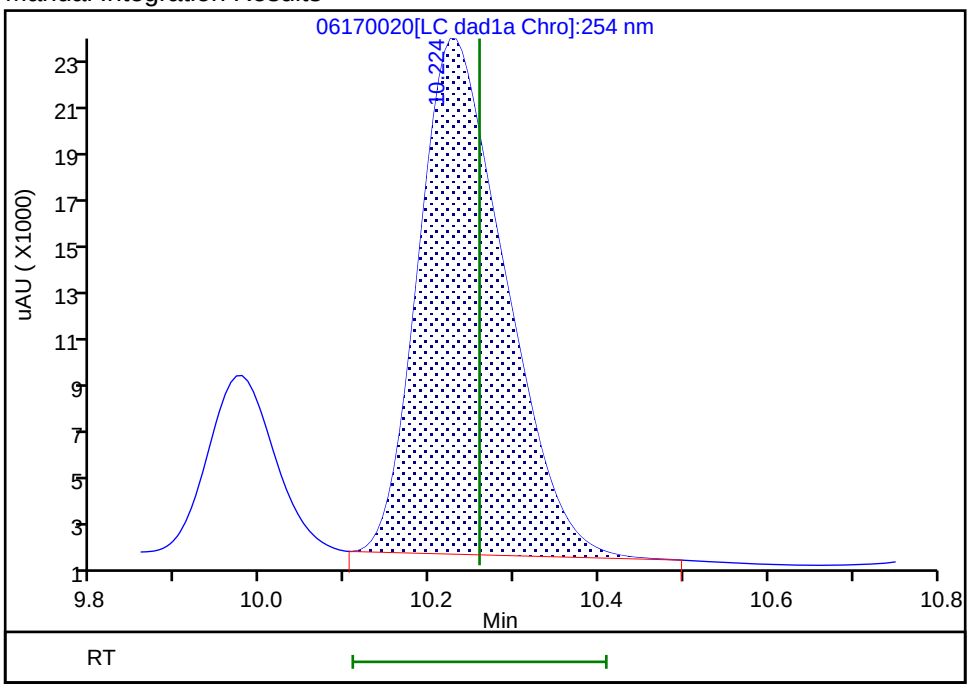
Not Detected
Expected RT: 10.26

Processing Integration Results



Manual Integration Results

RT: 10.22
Area: 155064
Amount: 0.875910
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:44:02
Audit Action: Assigned Compound ID Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 MS REDL
Lab Sample ID: 280-137006-4 MS REDL
Matrix: Water
Lab File ID: 06170023.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 464.5(mL)
Date Analyzed: 06/18/2020 00:57
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 499165
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	39.0	H 4 D	2.3	2.2	0.91

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\20200617-92523.b\06170023.D
Lims ID: 280-137006-B-4-B MS
Client ID: OS001-DP03-45
Sample Type: MS
Inject. Date: 18-Jun-2020 00:57:41 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137006-B-4-B
Misc. Info.: 280-0092523-023
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:48:23

	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		6.579				ND	U
	2 TNX	1		6.626				ND	
	3 HMX	1	6.720	6.725	-0.005	1695	0.2000	0.0197	M
	4 2,4-diamino-6-nitrotoluene	1		6.759				ND	
	5 DNX	1	6.993	6.953	0.040	2335		0.0153	M
	6 MNX	1		7.400				ND	
	7 RDX	1	7.800	7.792	0.008	2911	0.2000	0.0250	M
	8 2,4,6-Trinitrophenol	1	8.113	8.099	0.014	2034	0.2000	0.0239	
$	9 1,2-Dinitrobenzene	1	8.760	8.752	0.008	2668	0.2000	0.0193	
	10 1,3,5-Trinitrobenzene	1	8.940	8.932	0.008	83373	0.2000	0.3620	
	11 1,3-Dinitrobenzene	1	9.586	9.578	0.008	6428	0.2000	0.0210	
	12 Nitrobenzene	1	9.966	9.952	0.014	4192	0.2000	0.0209	
	13 3,5-Dinitroaniline	1		10.212				ND	a
	14 Tetryl	1	10.220	10.258	-0.038	15638	0.2000	0.0883	Ma
	15 Nitroglycerin	2	10.793	10.778	0.015	11679	2.00	0.1714	
	16 2,4,6-Trinitrotoluene	1	11.253	11.238	0.015	8433	0.2000	0.0413	
	17 4-Amino-2,6-dinitrotoluene	1	11.420	11.398	0.022	3624	0.2000	0.0268	
	18 2-Amino-4,6-dinitrotoluene	1	11.720	11.692	0.028	5166	0.2000	0.0255	M
	19 2,6-Dinitrotoluene	1	11.853	11.838	0.015	2814	0.2000	0.0188	Ma
	20 2,4-Dinitrotoluene	1	12.060	12.038	0.022	5783	0.2000	0.0190	
	21 o-Nitrotoluene	1	12.886	12.865	0.021	3136	0.2000	0.0232	
	22 p-Nitrotoluene	1	13.313	13.292	0.021	2214	0.2000	0.0196	
	23 m-Nitrotoluene	1	13.906	13.885	0.021	2584	0.2000	0.0181	
	24 PETN	2	15.000	14.965	0.035	11734	2.00	0.1493	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

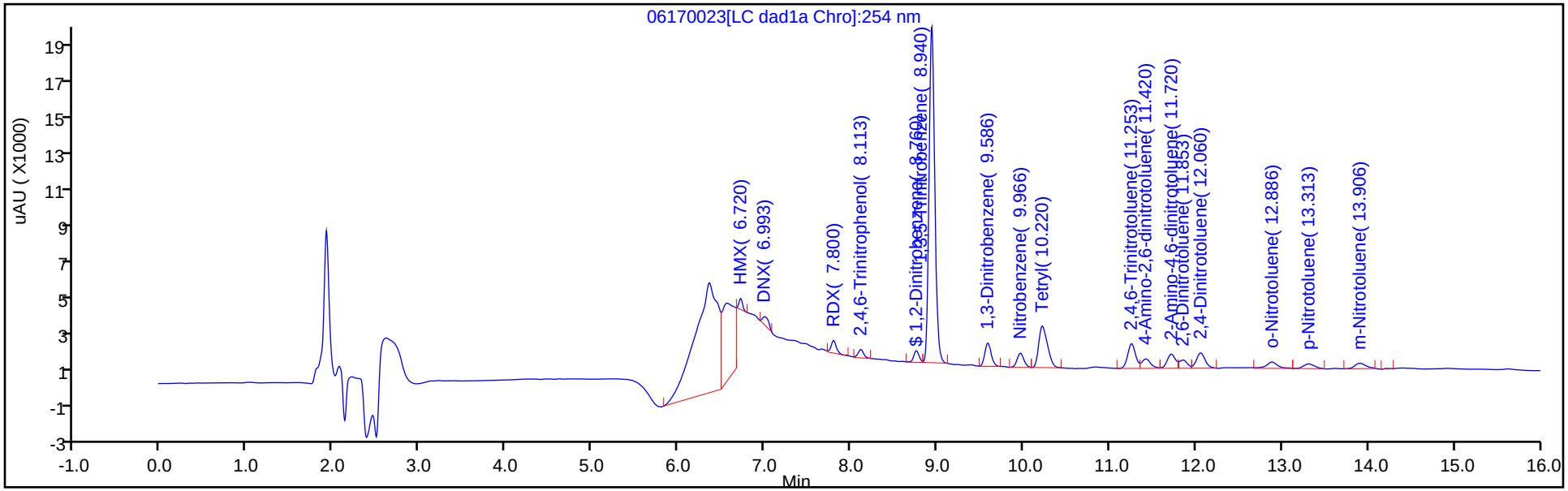
a - User Assigned ID

Report Date: 18-Jun-2020 20:46:06 Chrom Revision: 2.3 17-Jun-2020 19:07:08

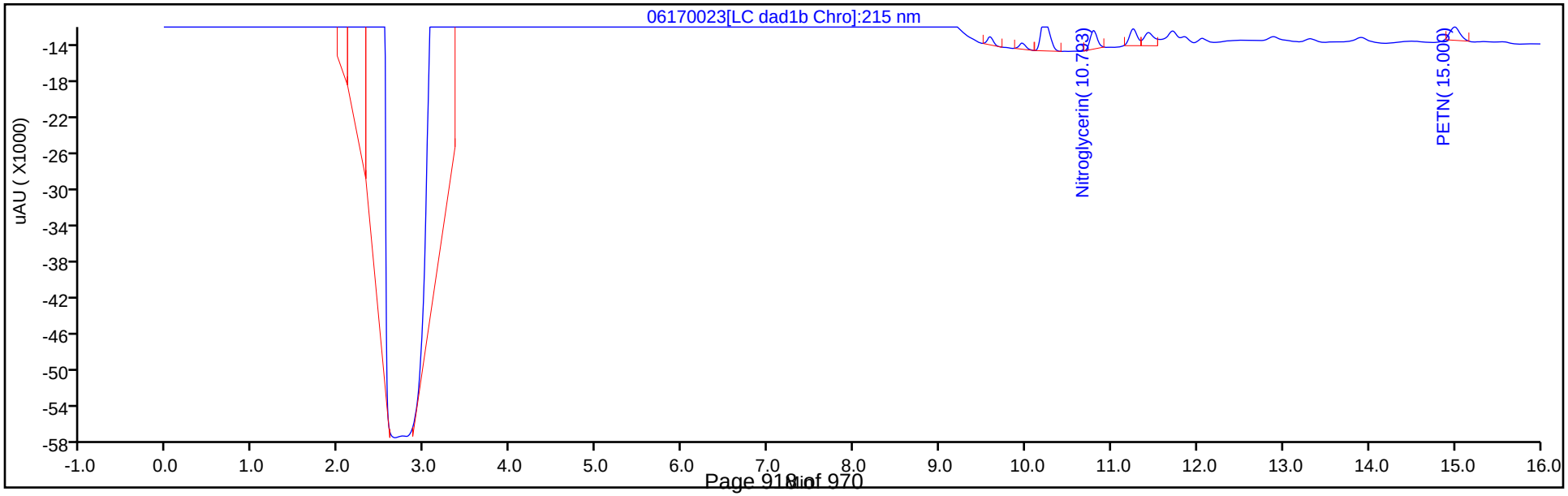
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170023.d				
Injection Date:	18-Jun-2020 00:57:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-4-B MS			Worklist Smp#:	23
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	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\20200617-92523.b\06170023.D				
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Sample Type:	MS				
Inject. Date:	18-Jun-2020 00:57:41	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-4-B				
Misc. Info.:	280-0092523-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		

Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m		
Limit Group:	GCSV - 8330		
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D		

Column 1 :	UltraCarb5uODS (20) (4.60 mm)	Det: LC DAD1B, 254 nm
Process Host:	CTX1013	

First Level Reviewer: zhangji Date: 18-Jun-2020 19:48:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0193	9.65

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

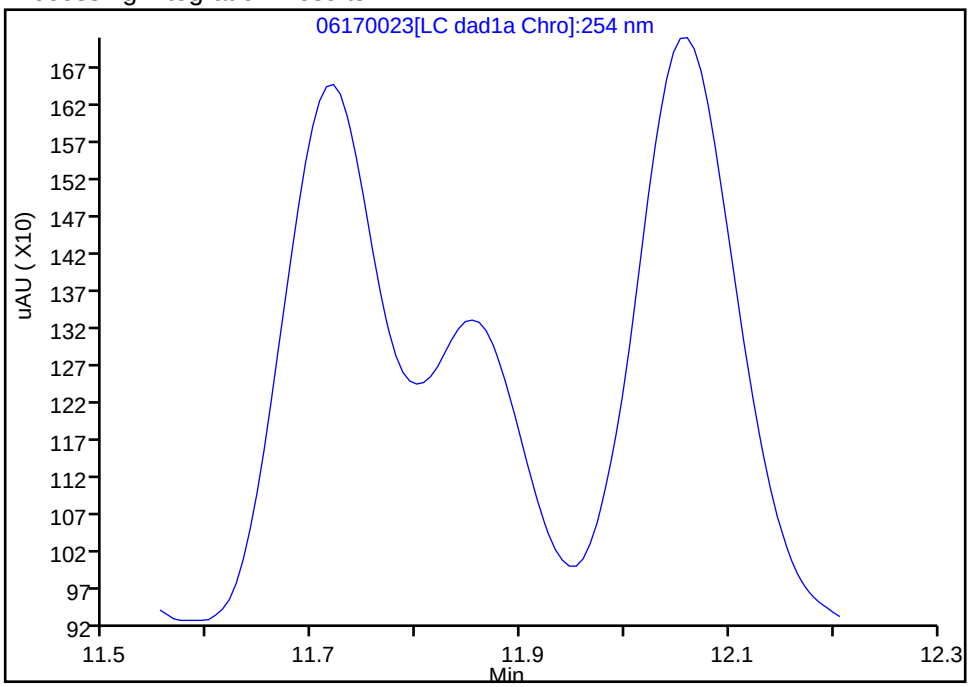
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170023.d				
Injection Date:	18-Jun-2020 00:57:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

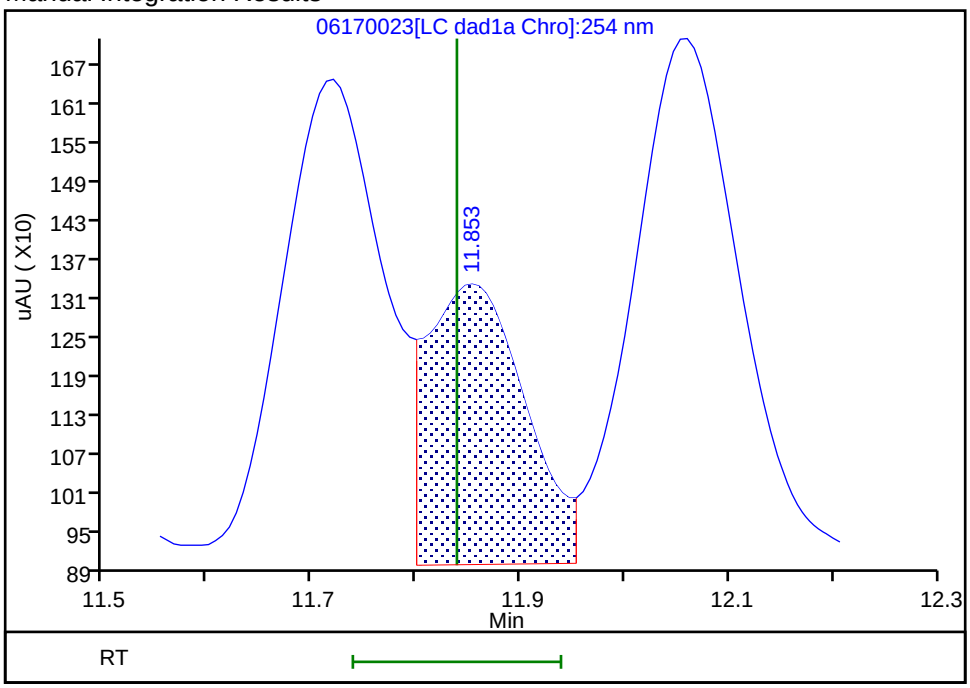
Not Detected
Expected RT: 11.84

Processing Integration Results



Manual Integration Results

RT: 11.85
Area: 2814
Amount: 0.018829
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:48:19
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

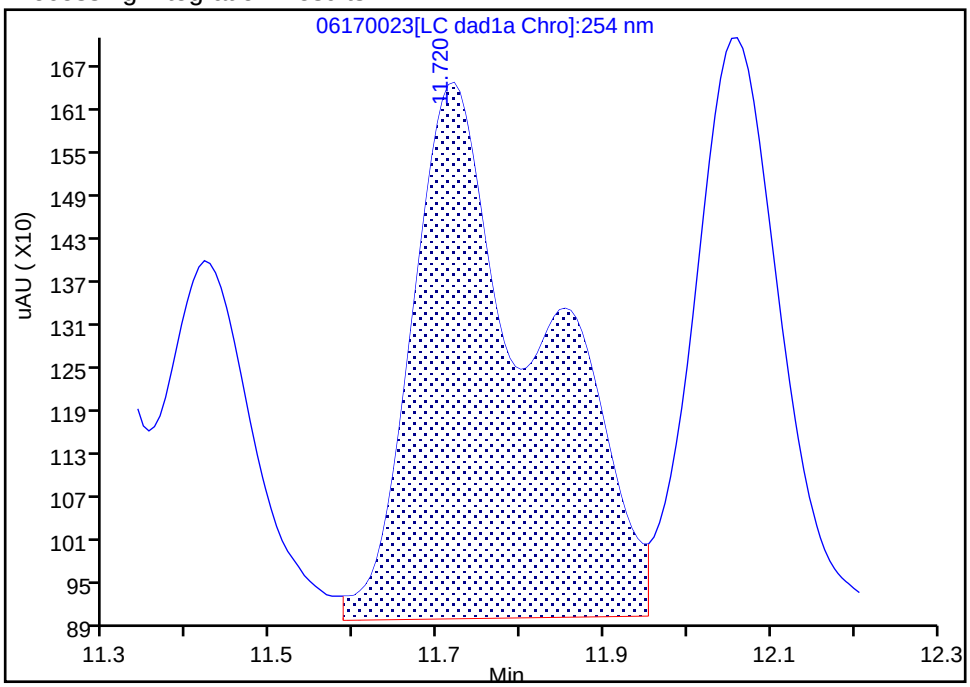
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170023.d				
Injection Date:	18-Jun-2020 00:57:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

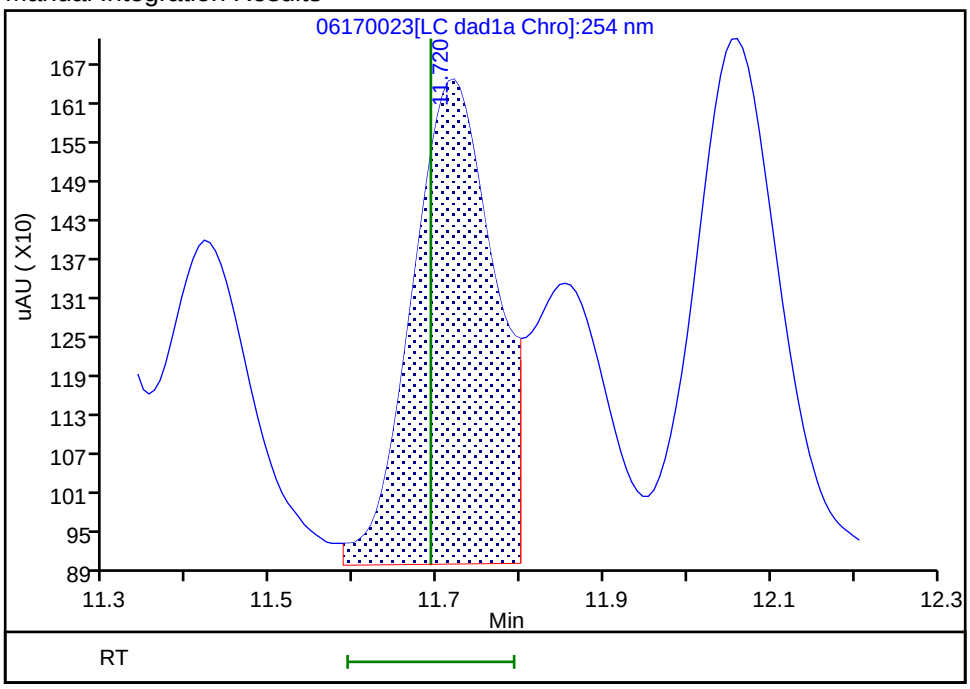
Processing Integration Results

RT: 11.72
Area: 7975
Amount: 0.039321
Amount Units: ug/mL



Manual Integration Results

RT: 11.72
Area: 5166
Amount: 0.025471
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:48:15
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

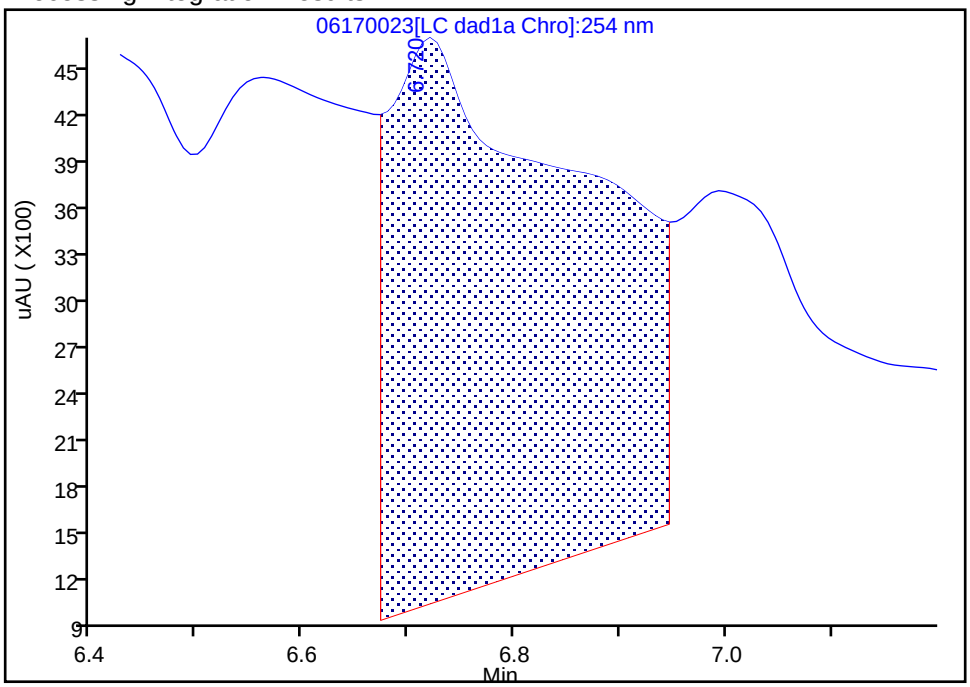
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170023.d				
Injection Date:	18-Jun-2020 00:57:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

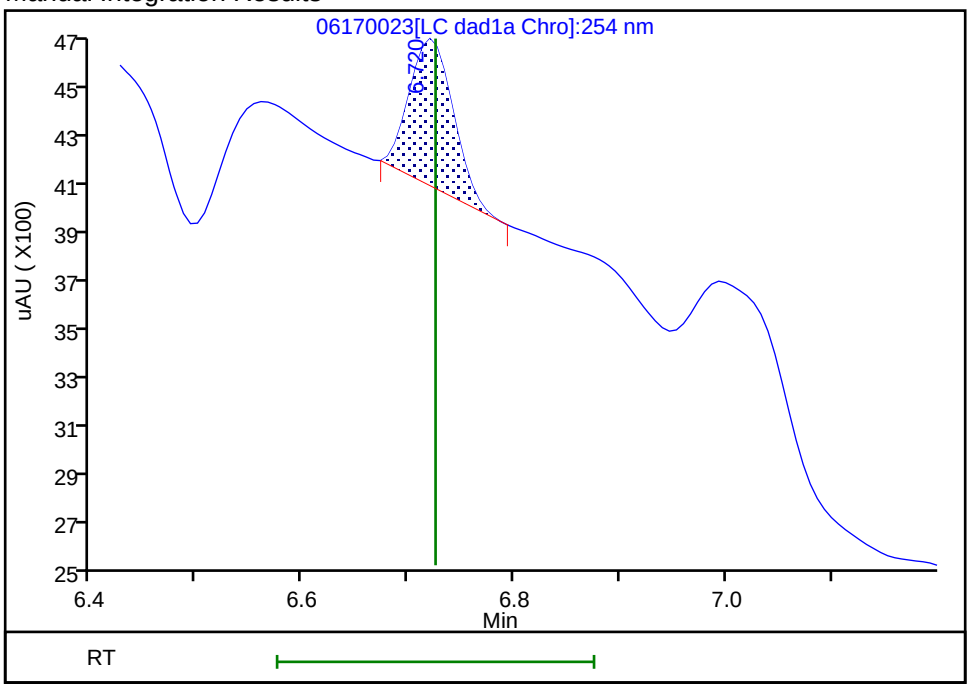
Processing Integration Results

RT: 6.72
Area: 44515
Amount: 0.517844
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 1695
Amount: 0.019718
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:47:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

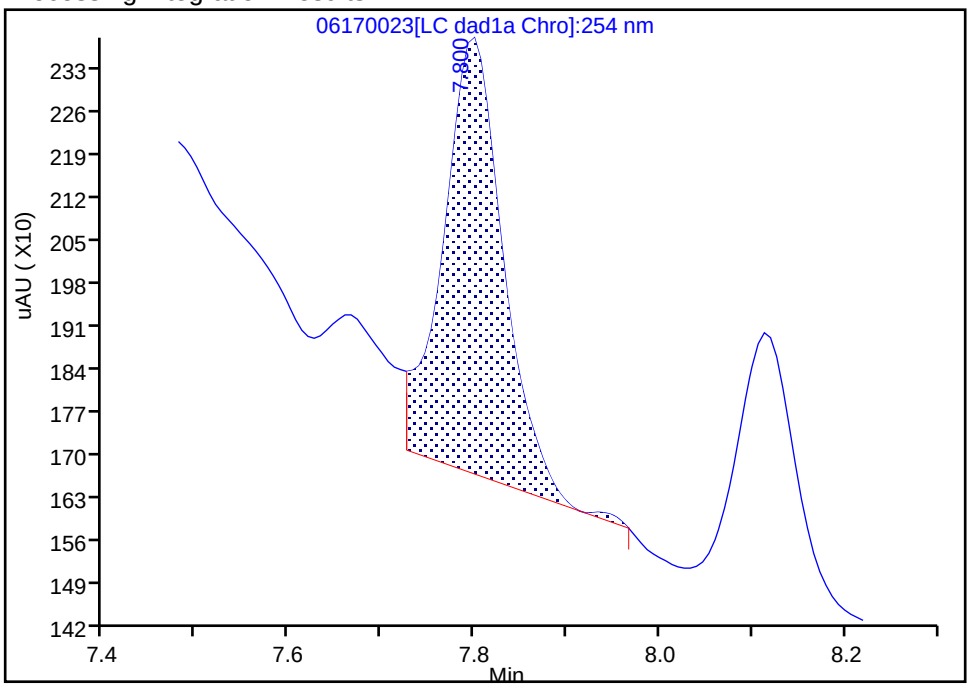
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170023.d				
Injection Date:	18-Jun-2020 00:57:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

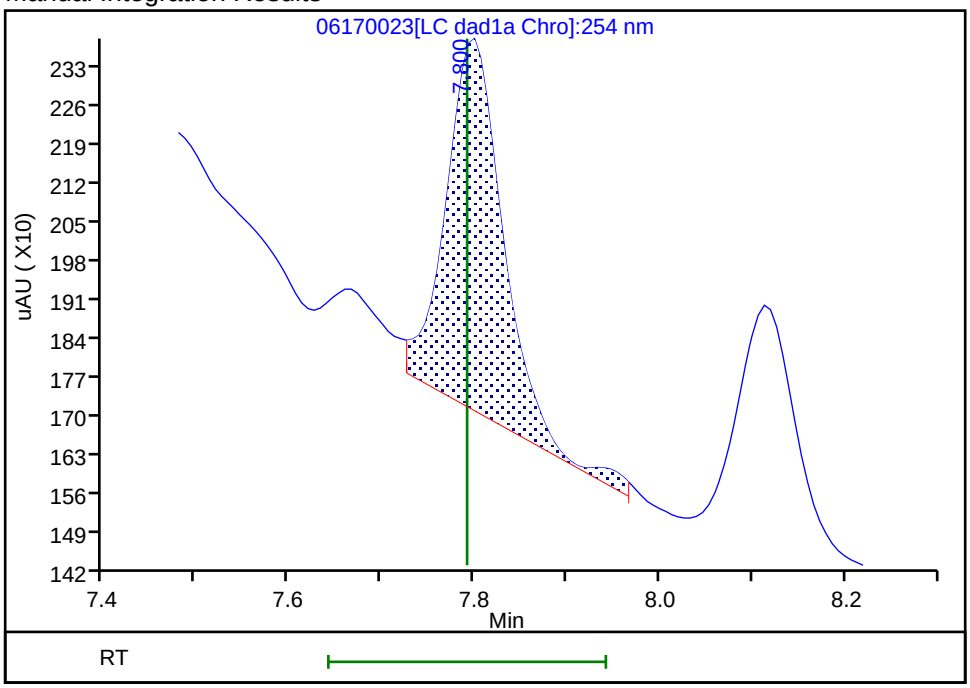
Processing Integration Results

RT: 7.80
Area: 3221
Amount: 0.027621
Amount Units: ug/mL



Manual Integration Results

RT: 7.80
Area: 2911
Amount: 0.024963
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:47:39
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

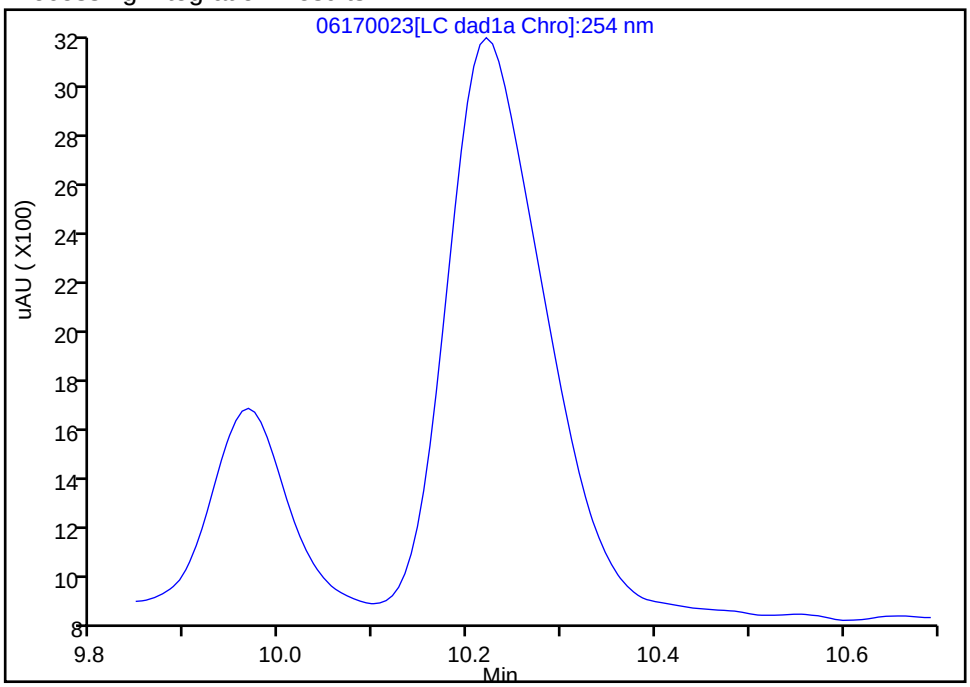
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170023.d				
Injection Date:	18-Jun-2020 00:57:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-B MS				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

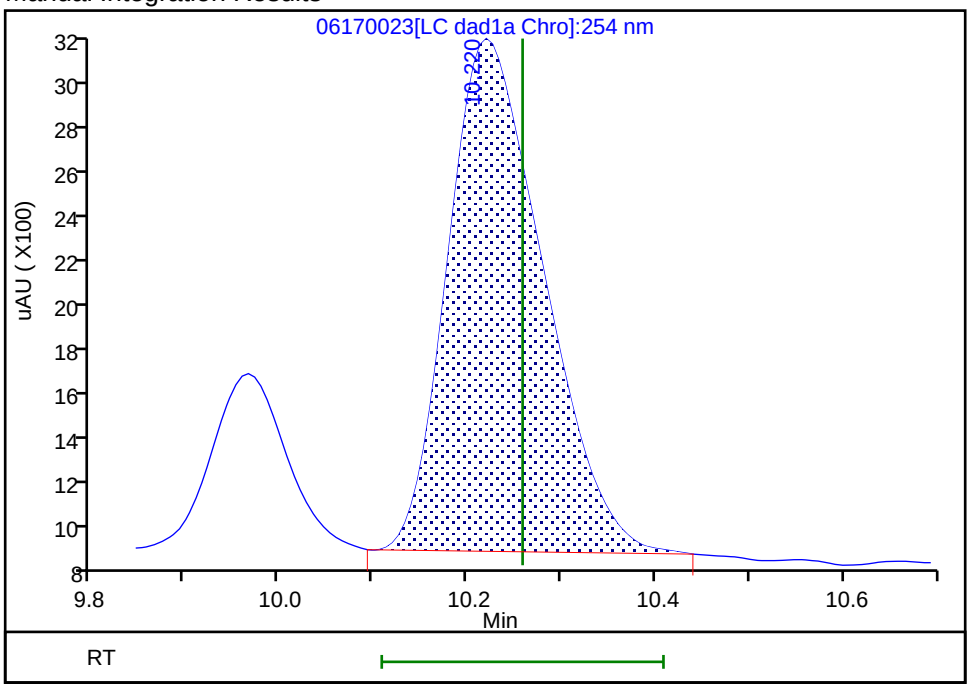
Processing Integration Results

Not Detected
Expected RT: 10.26



Manual Integration Results

RT: 10.22
Area: 15638
Amount: 0.088334
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:47:58
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 MSD
Lab Sample ID: 280-137006-4 MSD
Matrix: Water
Lab File ID: 06110038.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/01/2020 10:20
Sample wt/vol: 469.7(mL)
Date Analyzed: 06/12/2020 02:51
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.: 498360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*31.5*	*J1 Q*	*0.22*	0.21	*0.090*
5755-27-1	MNX	1.89	J M	2.1	0.43	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	71	Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110038.D				
Lims ID:	280-137006-A-4-C MSD				
Client ID:	OS001-DP03-45				
Sample Type:	MSD				
Inject. Date:	12-Jun-2020 02:51:48	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-4-C				
Misc. Info.:	280-0092324-038				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				
First Level Reviewer: zhangji		Date:	12-Jun-2020 10:48:45		

	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		6.574				ND	U
	2 TNX	1	6.613	6.627	-0.014	33450	0.2002	0.1537	M
	3 HMX	1		6.696				ND	
	4 2,4-diamino-6-nitrotoluene	1		6.760				ND	
	5 DNX	1	6.939	6.954	-0.015	29358	0.2002	0.1920	M
	6 MNX	1	7.386	7.407	-0.021	28079	0.2334	0.1771	M
	7 RDX	1	7.786	7.776	0.010	2466		0.0211	M
	8 2,4,6-Trinitrophenol	1		8.069				ND	
$	9 1,2-Dinitrobenzene	1	8.766	8.743	0.023	19656	0.2000	0.1422	
	10 1,3,5-Trinitrobenzene	1	8.946	8.916	0.030	682259		2.96	E
	11 1,3-Dinitrobenzene	1		9.569				ND	
	12 Nitrobenzene	1		9.949				ND	
	14 Tetryl	1	10.226	10.256	-0.030	72748		0.4109	
	13 3,5-Dinitroaniline	1		10.273				ND	
	15 Nitroglycerin	2		10.762				ND	
	16 2,4,6-Trinitrotoluene	1	11.266	11.222	0.044	35144		0.1722	M
	17 4-Amino-2,6-dinitrotoluene	1		11.376				ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.662				ND	U
	19 2,6-Dinitrotoluene	1		11.809				ND	
	20 2,4-Dinitrotoluene	1		12.009				ND	
	21 o-Nitrotoluene	1		12.842				ND	
	22 p-Nitrotoluene	1	13.273	13.276	-0.003	2147		0.0190	M
	23 m-Nitrotoluene	1		13.862				ND	U
	24 PETN	2		14.969				ND	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

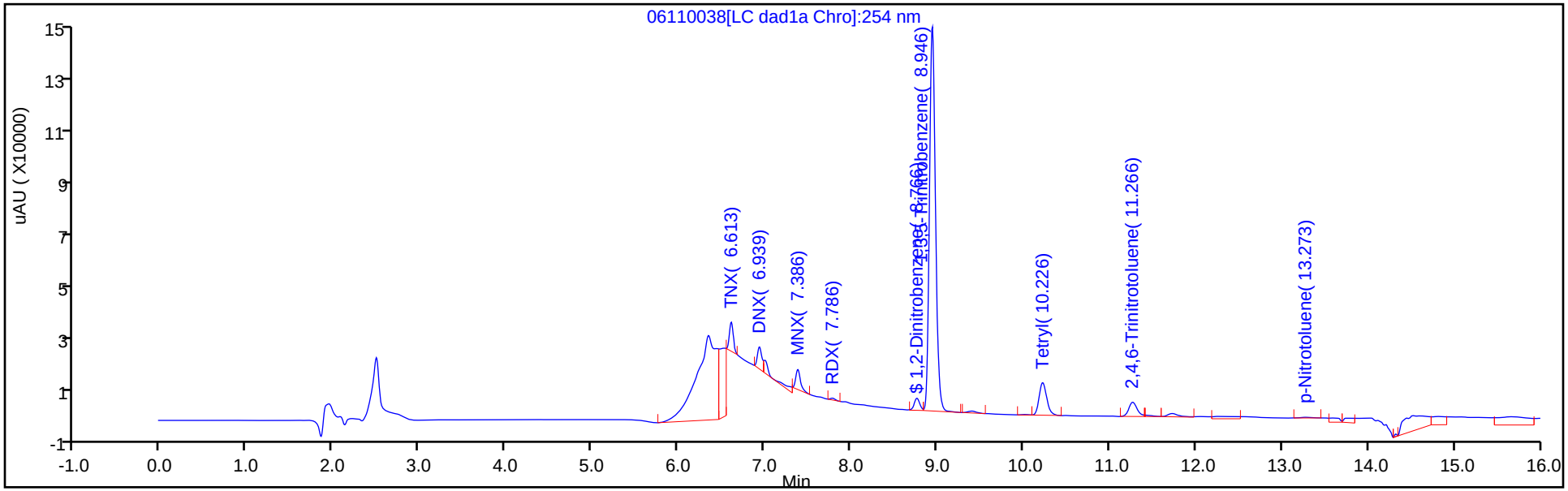
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 12-Jun-2020 12:39:49 Chrom Revision: 2.3 10-Jun-2020 22:46:48

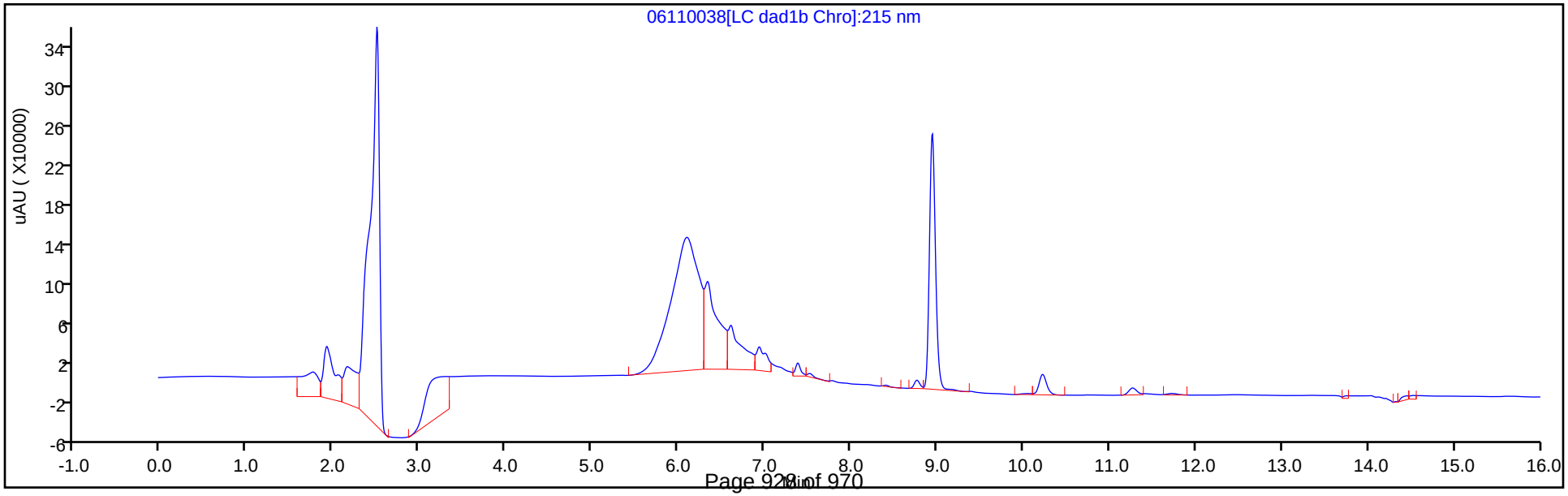
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110038.d				
Injection Date:	12-Jun-2020 02:51:48	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-A-4-C MSD			Worklist Smp#:	38
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
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\20200611-92324.b\06110038.D				
Lims ID:	280-137006-A-4-C MSD				
Client ID:	OS001-DP03-45				
Sample Type:	MSD				
Inject. Date:	12-Jun-2020 02:51:48	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-A-4-C				
Misc. Info.:	280-0092324-038				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	12-Jun-2020 12:39:47	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1034				

First Level Reviewer: zhangji Date: 12-Jun-2020 10:48:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1422	71.11

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

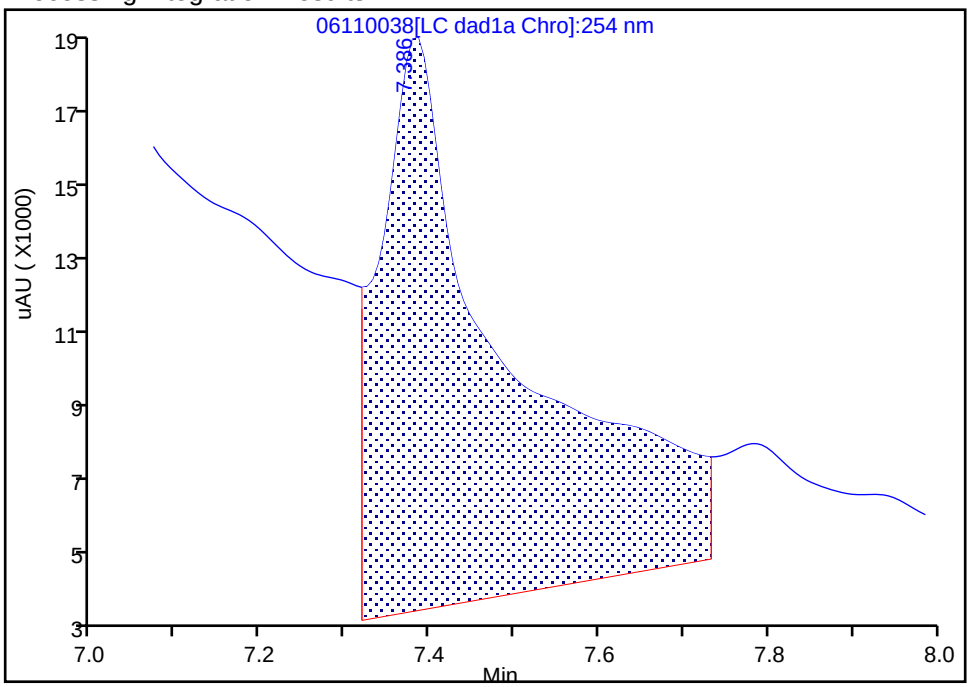
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110038.d				
Injection Date:	12-Jun-2020 02:51:48	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-A-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
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

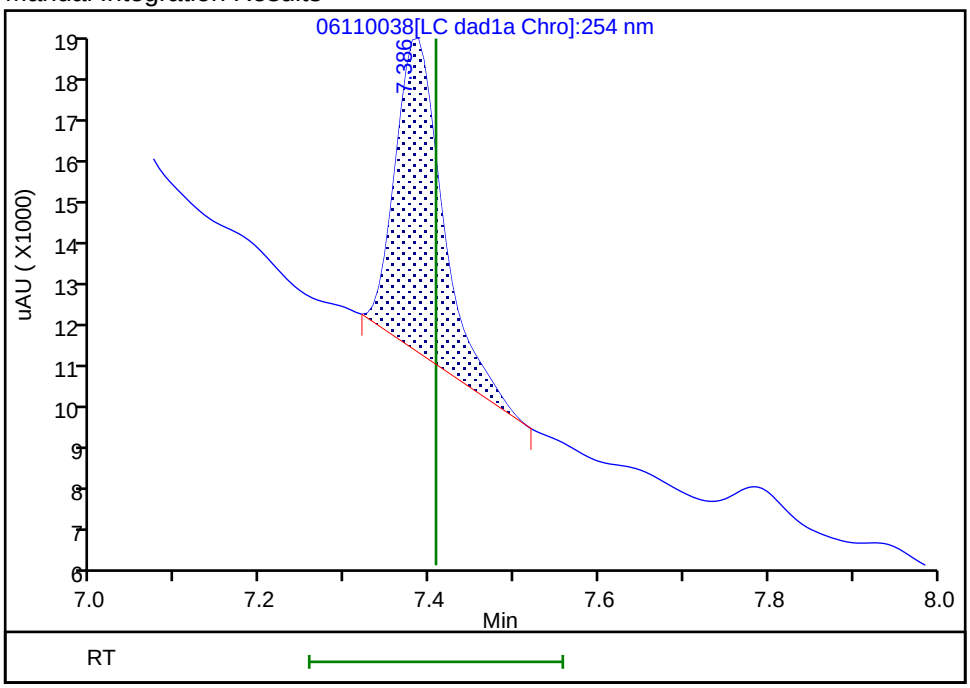
Processing Integration Results

RT: 7.39
Area: 158664
Amount: 1.000756
Amount Units: ug/mL



Manual Integration Results

RT: 7.39
Area: 28079
Amount: 0.177105
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:18:57

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 MSD RE
Lab Sample ID: 280-137006-4 MSD RE
Matrix: Water
Lab File ID: 06170021.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 472.3(mL)
Date Analyzed: 06/18/2020 00:11
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.: 499165
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	2.31	H	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	4.51	H J1	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	2.22	H	0.11	0.085	0.029
606-20-2	2,6-Dinitrotoluene	2.18	H	0.11	0.085	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	2.84	H	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	2.00	H	0.22	0.21	0.091
99-08-1	3-Nitrotoluene	2.26	H J1	0.42	0.42	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	2.20	H	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	2.29	H	0.43	0.42	0.11
2691-41-0	HMX	2.42	H M	0.22	0.21	0.093
98-95-3	Nitrobenzene	2.27	H	0.22	0.21	0.096
121-82-4	RDX	2.18	H M	0.22	0.21	0.055
479-45-8	Tetryl	9.76	H J1 M	0.12	0.11	0.034

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\20200617-92523.b\06170021.D
Lims ID: 280-137006-B-4-C MSD
Client ID: OS001-DP03-45
Sample Type: MSD
Inject. Date: 18-Jun-2020 00:11:44 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137006-B-4-C
Misc. Info.: 280-0092523-021
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:45:02

	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		6.579				ND	U
	2 TNX	1		6.626				ND	
	3 HMX	1	6.716	6.725	-0.009	19679	0.2000	0.2289	M
	4 2,4-diamino-6-nitrotoluene	1		6.759				ND	
	5 DNX	1	6.990	6.953	0.037	27415		0.1793	M
	6 MNX	1		7.400				ND	U
	7 RDX	1	7.796	7.792	0.004	24005	0.2000	0.2059	M
	8 2,4,6-Trinitrophenol	1	8.083	8.099	-0.016	17606	0.2000	0.2068	M
$	9 1,2-Dinitrobenzene	1	8.770	8.752	0.018	26766	0.2000	0.1937	
	10 1,3,5-Trinitrobenzene	1	8.943	8.932	0.011	863770	0.2000	3.75	E
	11 1,3-Dinitrobenzene	1	9.596	9.578	0.018	67023	0.2000	0.2185	
	12 Nitrobenzene	1	9.976	9.952	0.024	43048	0.2000	0.2148	
	13 3,5-Dinitroaniline	1		10.212				ND	a
	14 Tetryl	1	10.229	10.258	-0.029	163183	0.2000	0.9218	a
	15 Nitroglycerin	2	10.803	10.778	0.025	139755	2.00	2.05	
	16 2,4,6-Trinitrotoluene	1	11.263	11.238	0.025	86923	0.2000	0.4260	
	17 4-Amino-2,6-dinitrotoluene	1	11.429	11.398	0.031	35882	0.2000	0.2077	
	18 2-Amino-4,6-dinitrotoluene	1	11.716	11.692	0.024	54460	0.2000	0.2685	
	19 2,6-Dinitrotoluene	1	11.856	11.838	0.018	30717	0.2000	0.2055	
	20 2,4-Dinitrotoluene	1	12.056	12.038	0.018	63703	0.2000	0.2098	
	21 o-Nitrotoluene	1	12.876	12.865	0.011	25490	0.2000	0.1887	
	22 p-Nitrotoluene	1	13.316	13.292	0.024	24425	0.2000	0.2161	
	23 m-Nitrotoluene	1	13.916	13.885	0.031	30547	0.2000	0.2136	
	24 PETN	2	15.009	14.965	0.044	154389	2.00	1.96	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

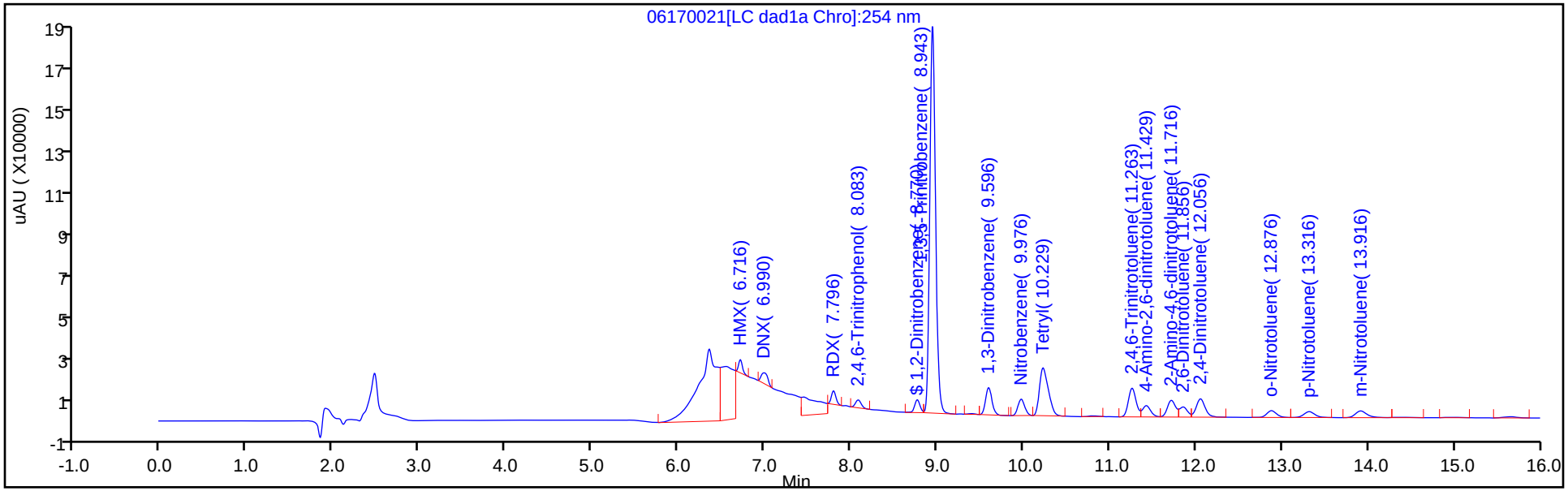
a - User Assigned ID

Report Date: 18-Jun-2020 20:46:05 Chrom Revision: 2.3 17-Jun-2020 19:07:08

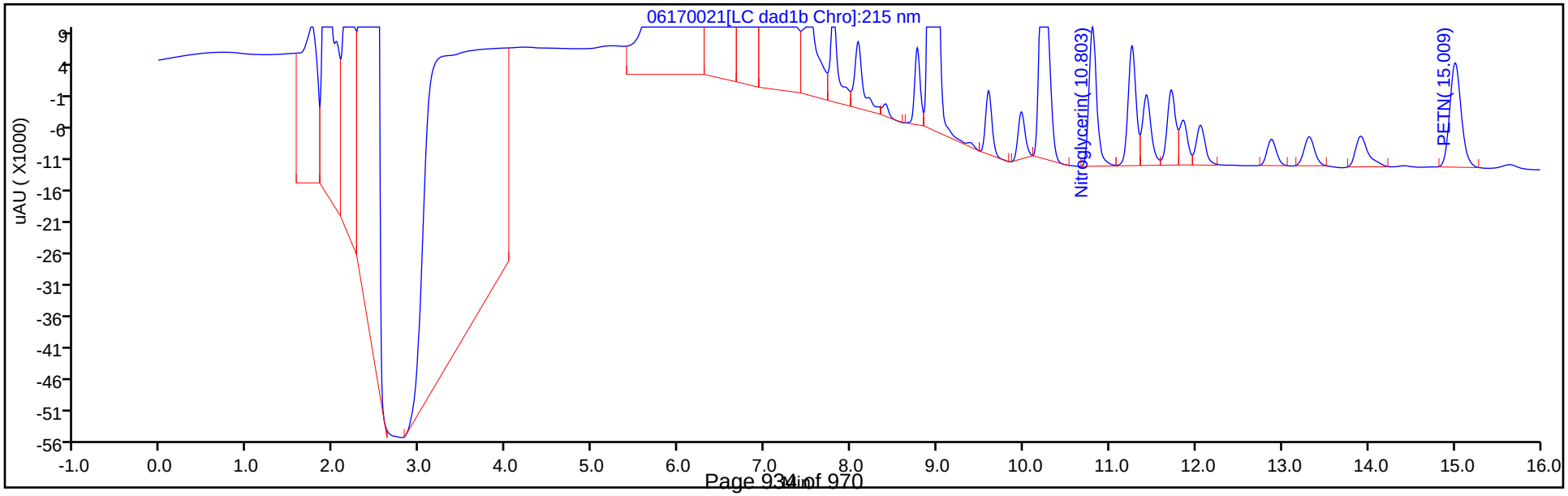
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170021.d				
Injection Date:	18-Jun-2020 00:11:44	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-4-C MSD			Worklist Smp#:	21
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
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\20200617-92523.b\06170021.D				
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Sample Type:	MSD				
Inject. Date:	18-Jun-2020 00:11:44	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137006-B-4-C				
Misc. Info.:	280-0092523-021				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 19:45:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1937	96.83

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

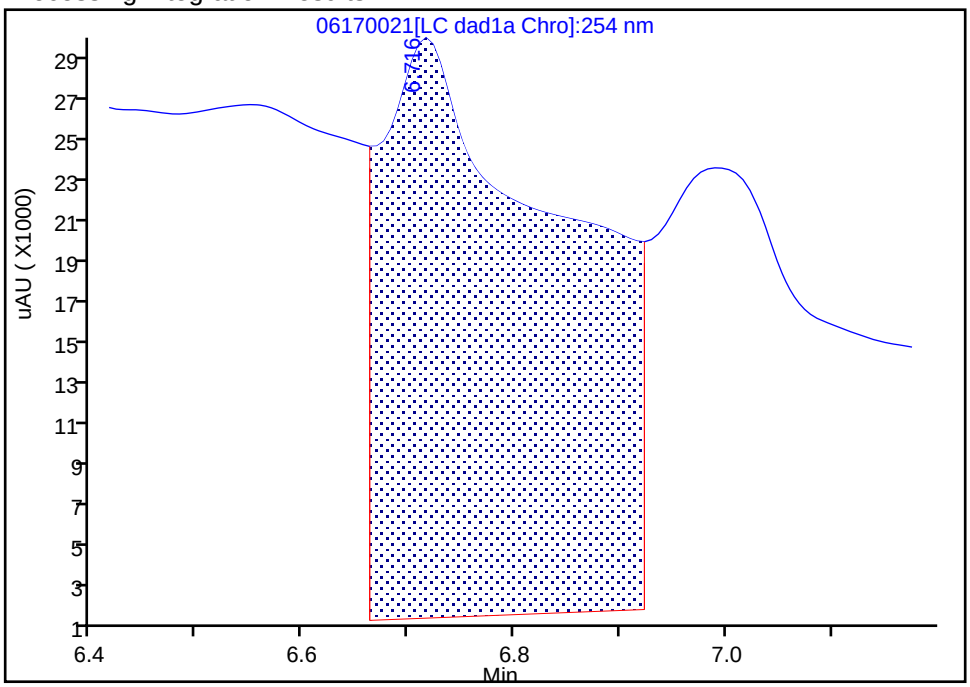
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170021.d				
Injection Date:	18-Jun-2020 00:11:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
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

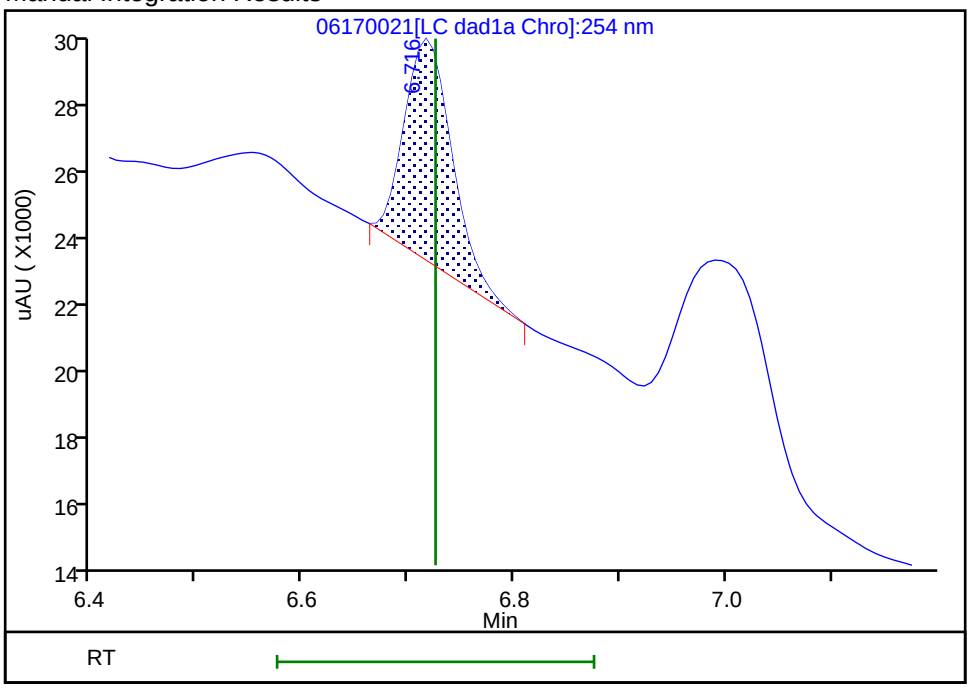
Processing Integration Results

RT: 6.72
Area: 333645
Amount: 3.881300
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 19679
Amount: 0.228926
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:44:44

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

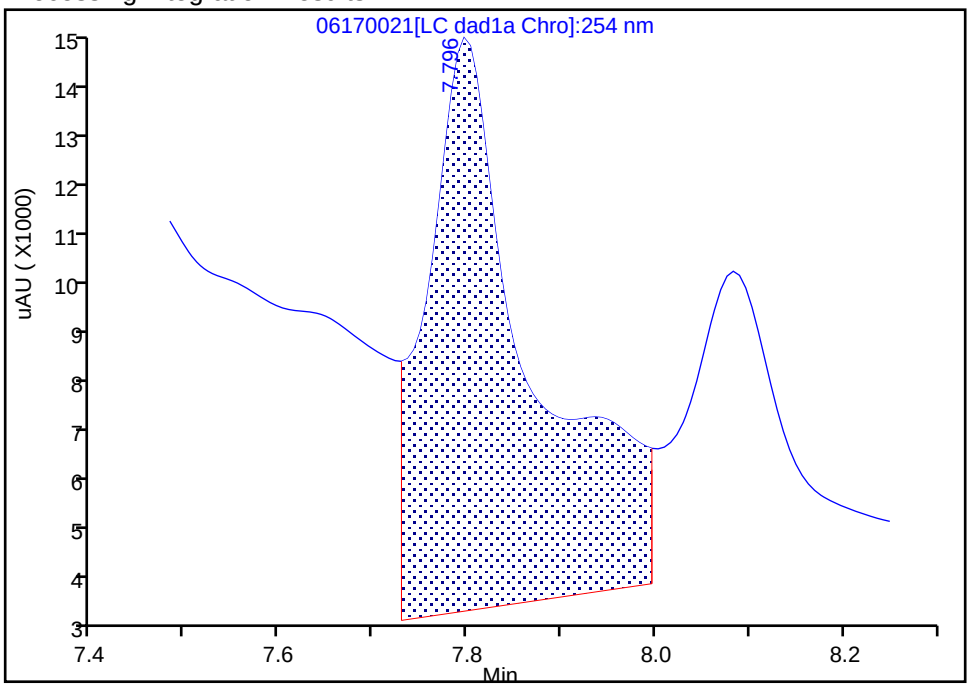
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170021.d				
Injection Date:	18-Jun-2020 00:11:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

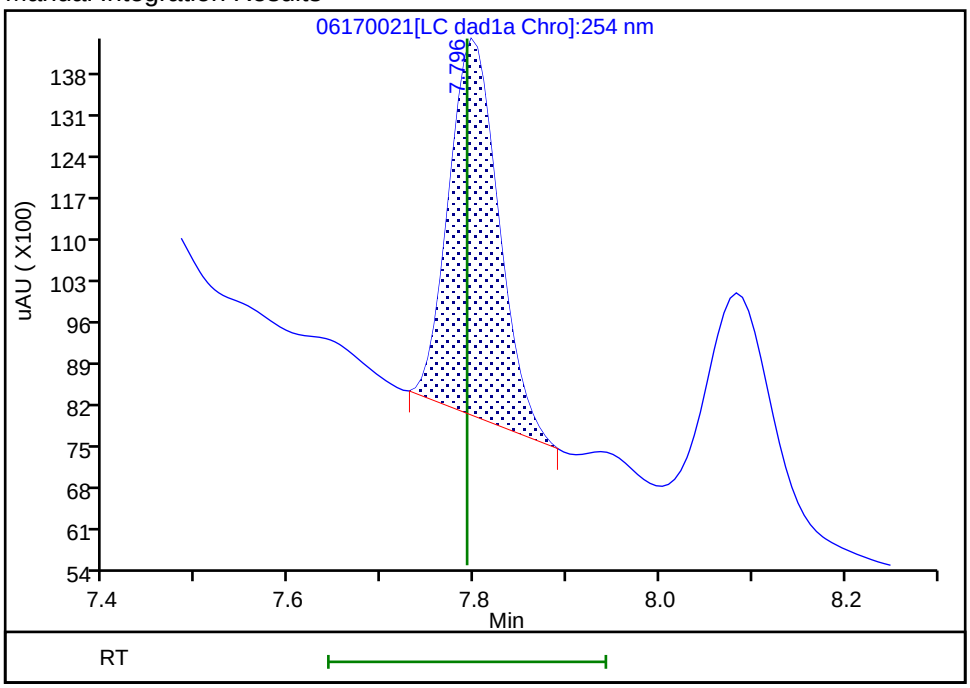
Processing Integration Results

RT: 7.80
Area: 83069
Amount: 0.712347
Amount Units: ug/mL



Manual Integration Results

RT: 7.80
Area: 24005
Amount: 0.205852
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:45:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

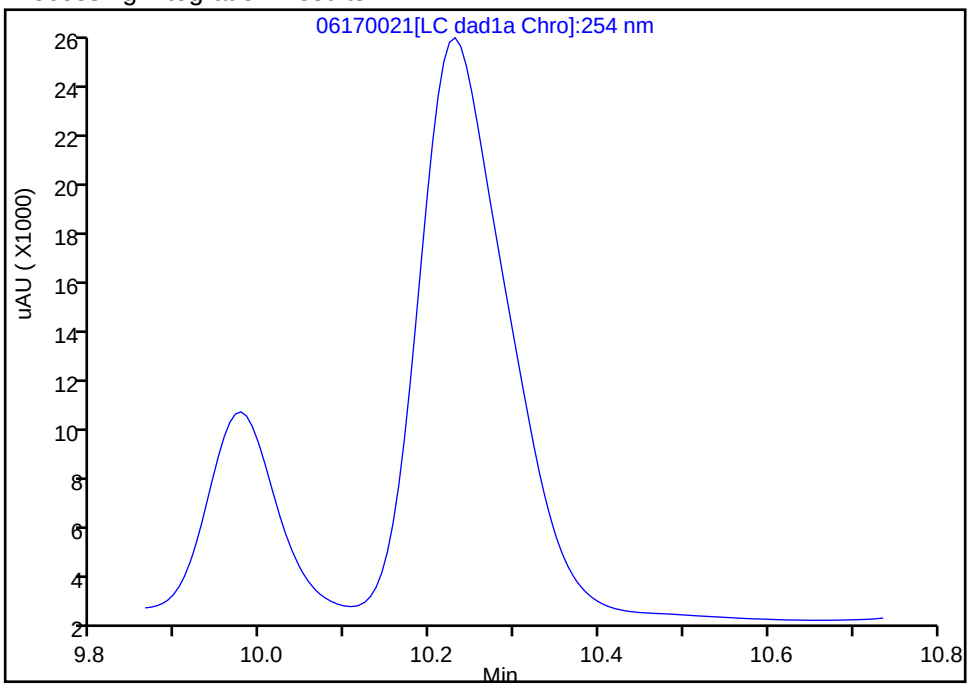
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170021.d				
Injection Date:	18-Jun-2020 00:11:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8

Signal: 1

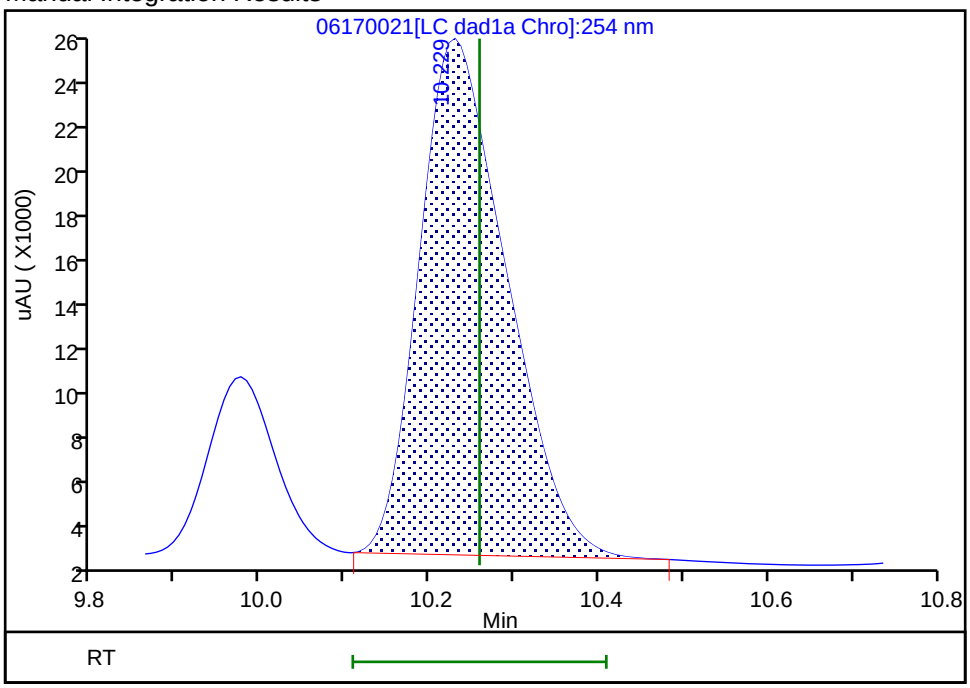
Not Detected
Expected RT: 10.26

Processing Integration Results



Manual Integration Results

RT: 10.23
Area: 163183
Amount: 0.921771
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:44:32
Audit Action: Assigned Compound ID Audit Reason:

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137006-1
SDG No.:
Client Sample ID: OS001-DP03-45 MSD REDL
Lab Sample ID: 280-137006-4 MSD REDL
Matrix: Water
Lab File ID: 06170024.D
Analysis Method: 8330A
Date Collected: 05/26/2020 15:45
Extraction Method: 3535
Date Extracted: 06/16/2020 10:10
Sample wt/vol: 472.3(mL)
Date Analyzed: 06/18/2020 01:20
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 100(uL)
GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 499165
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	41.7	H 4 D	2.2	2.1	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	104		83-119

Report Date: 18-Jun-2020 20:46:07 Chrom Revision: 2.3 17-Jun-2020 19:07:08

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\06170024.D
Lims ID: 280-137006-B-4-C MSD
Client ID: OS001-DP03-45
Sample Type: MSD
Inject. Date: 18-Jun-2020 01:20:39 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137006-B-4-C
Misc. Info.: 280-0092523-024
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Jun-2020 20:46:00 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1013

First Level Reviewer: zhangji Date: 18-Jun-2020 19:49:06

	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		6.579				ND	U
	2 TNX	1		6.626				ND	
	3 HMX	1	6.718	6.725	-0.007	1892	0.2000	0.0220	M
	4 2,4-diamino-6-nitrotoluene	1		6.759				ND	
	5 DNX	1	6.984	6.953	0.031	2383		0.0156	M
	6 MNX	1		7.400				ND	
	7 RDX	1	7.798	7.792	0.006	3013	0.2000	0.0258	M
	8 2,4,6-Trinitrophenol	1	8.118	8.099	0.019	2181	0.2000	0.0256	
$	9 1,2-Dinitrobenzene	1	8.771	8.752	0.019	2887	0.2000	0.0209	
	10 1,3,5-Trinitrobenzene	1	8.944	8.932	0.012	90827	0.2000	0.3944	
	11 1,3-Dinitrobenzene	1	9.597	9.578	0.019	7100	0.2000	0.0232	
	12 Nitrobenzene	1	9.977	9.952	0.025	4668	0.2000	0.0233	
	13 3,5-Dinitroaniline	1		10.212				ND	
	14 Tetryl	1	10.237	10.258	-0.021	17169	0.2000	0.0970	
	15 Nitroglycerin	2	10.811	10.778	0.033	13334	2.00	0.1957	
	16 2,4,6-Trinitrotoluene	1	11.264	11.238	0.026	9190	0.2000	0.0450	
	17 4-Amino-2,6-dinitrotoluene	1	11.444	11.398	0.046	3964	0.2000	0.0287	
	18 2-Amino-4,6-dinitrotoluene	1	11.731	11.692	0.039	5592	0.2000	0.0276	M
	19 2,6-Dinitrotoluene	1	11.864	11.838	0.026	3457	0.2000	0.0231	Ma
	20 2,4-Dinitrotoluene	1	12.071	12.038	0.033	6537	0.2000	0.0215	
	21 o-Nitrotoluene	1	12.897	12.865	0.032	3189	0.2000	0.0236	
	22 p-Nitrotoluene	1	13.337	13.292	0.045	2297	0.2000	0.0203	
	23 m-Nitrotoluene	1	13.931	13.885	0.046	2976	0.2000	0.0208	
	24 PETN	2	15.037	14.965	0.072	13274	2.00	0.1689	
	25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

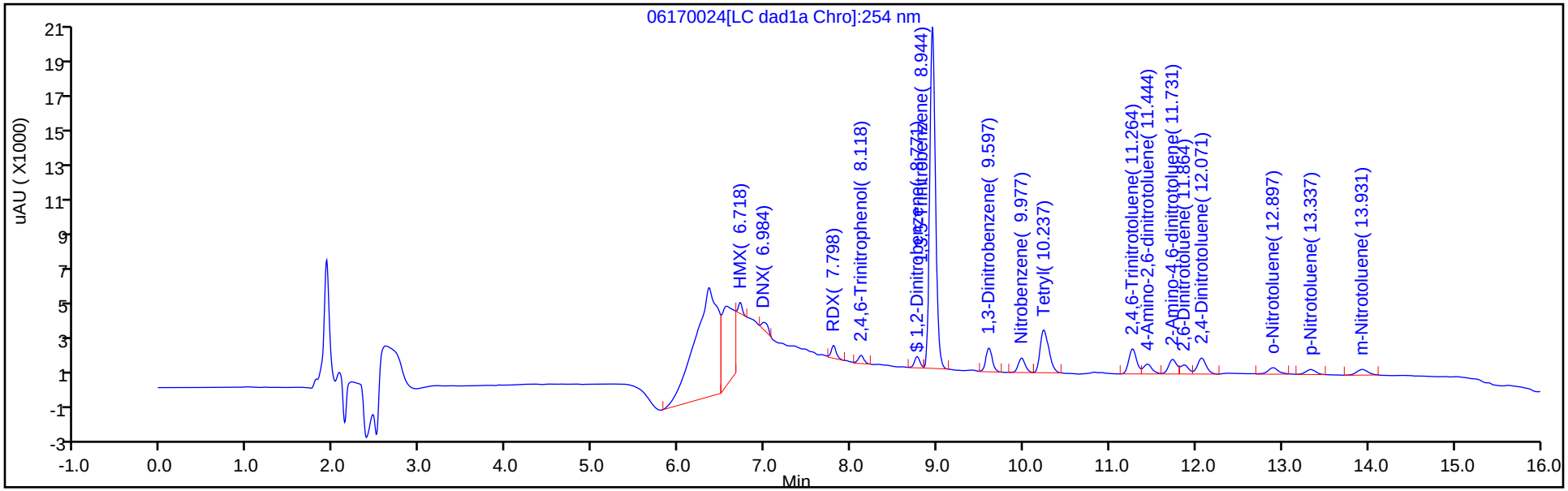
a - User Assigned ID

Report Date: 18-Jun-2020 20:46:07 Chrom Revision: 2.3 17-Jun-2020 19:07:08

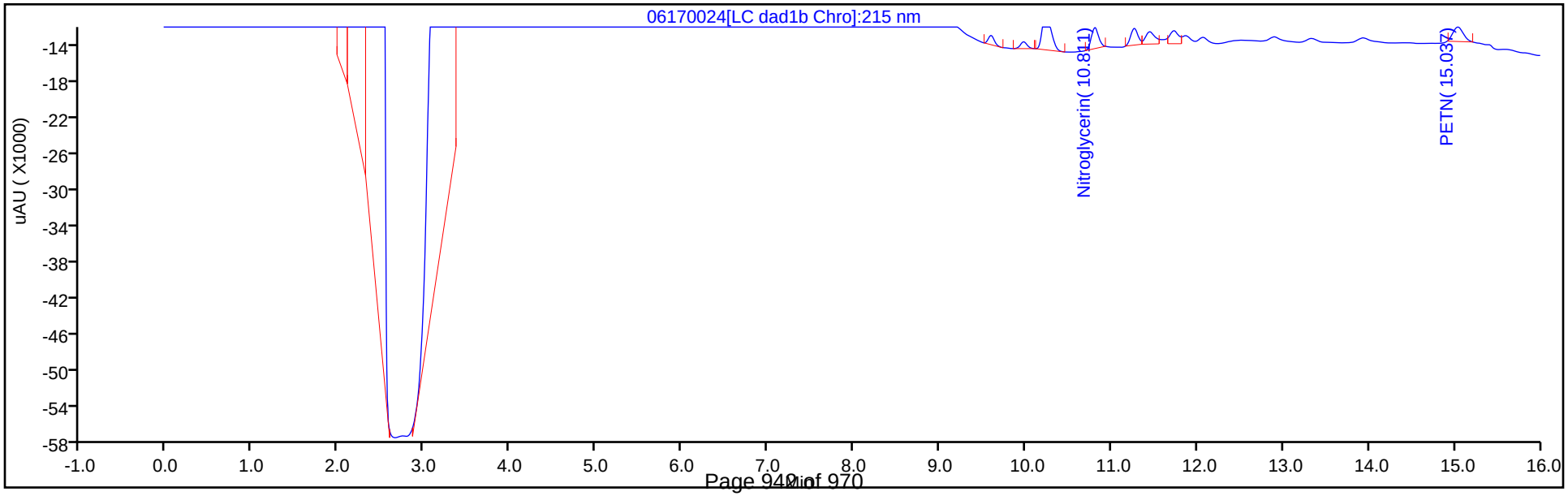
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170024.d				
Injection Date:	18-Jun-2020 01:20:39	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137006-B-4-C MSD			Worklist Smp#:	24
Client ID:	OS001-DP03-45				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	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\20200617-92523.b\06170024.D				
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Sample Type:	MSD				
Inject. Date:	18-Jun-2020 01:20:39	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137006-B-4-C				
Misc. Info.:	280-0092523-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200617-92523.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-Jun-2020 20:46:00	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1013				

First Level Reviewer: zhangji Date: 18-Jun-2020 19:49:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0209	10.44

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

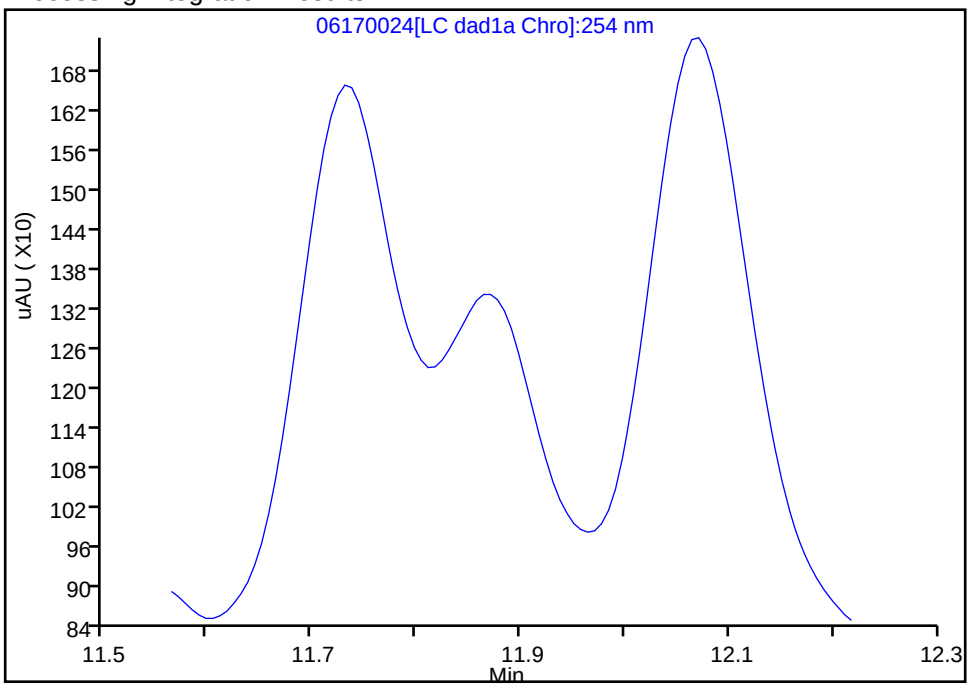
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170024.d				
Injection Date:	18-Jun-2020 01:20:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

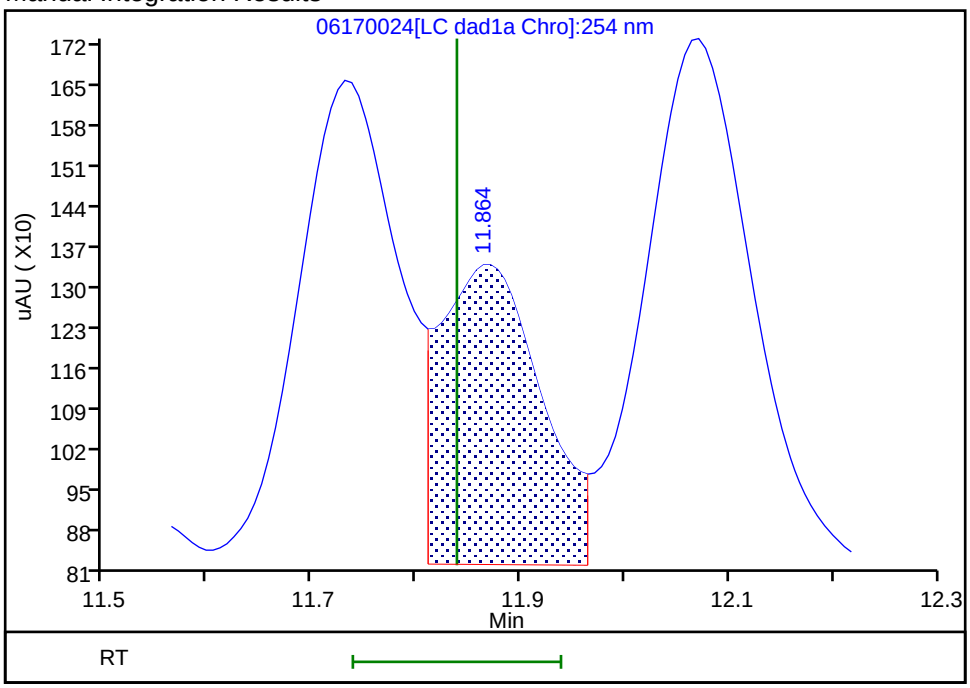
Processing Integration Results

Not Detected
Expected RT: 11.84



Manual Integration Results

RT: 11.86
Area: 3457
Amount: 0.023131
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:49:00
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

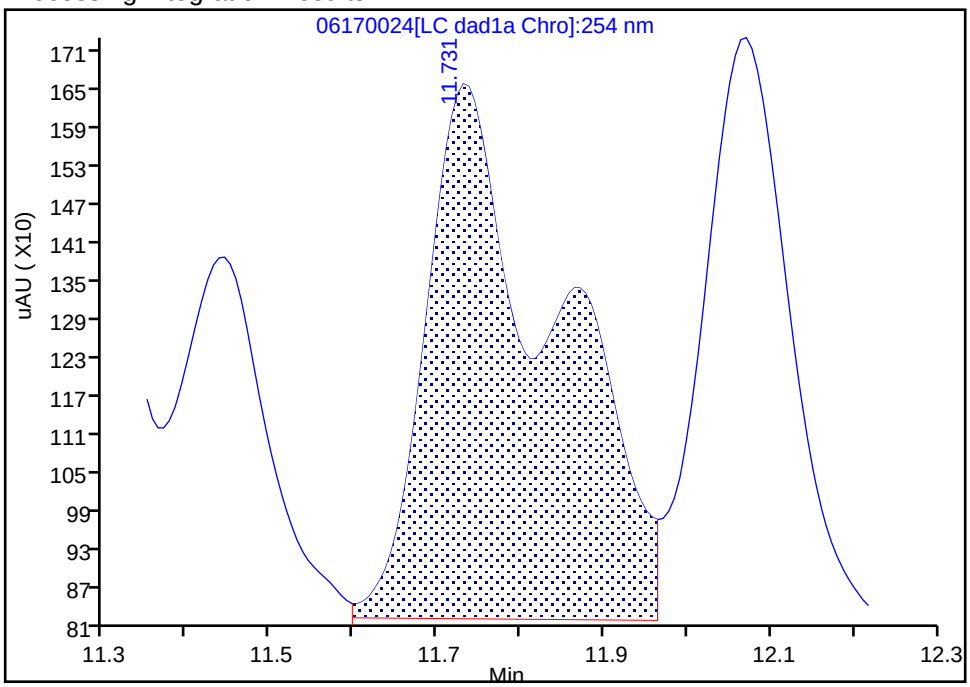
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170024.d				
Injection Date:	18-Jun-2020 01:20:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

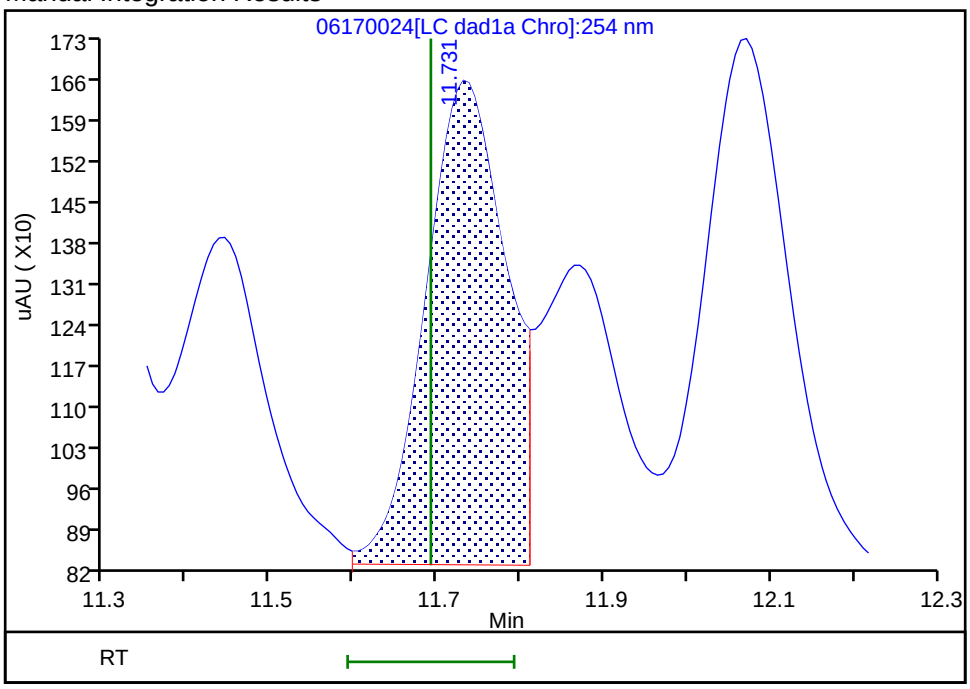
Processing Integration Results

RT: 11.73
Area: 9053
Amount: 0.044636
Amount Units: ug/mL



Manual Integration Results

RT: 11.73
Area: 5592
Amount: 0.027572
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:48:56

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

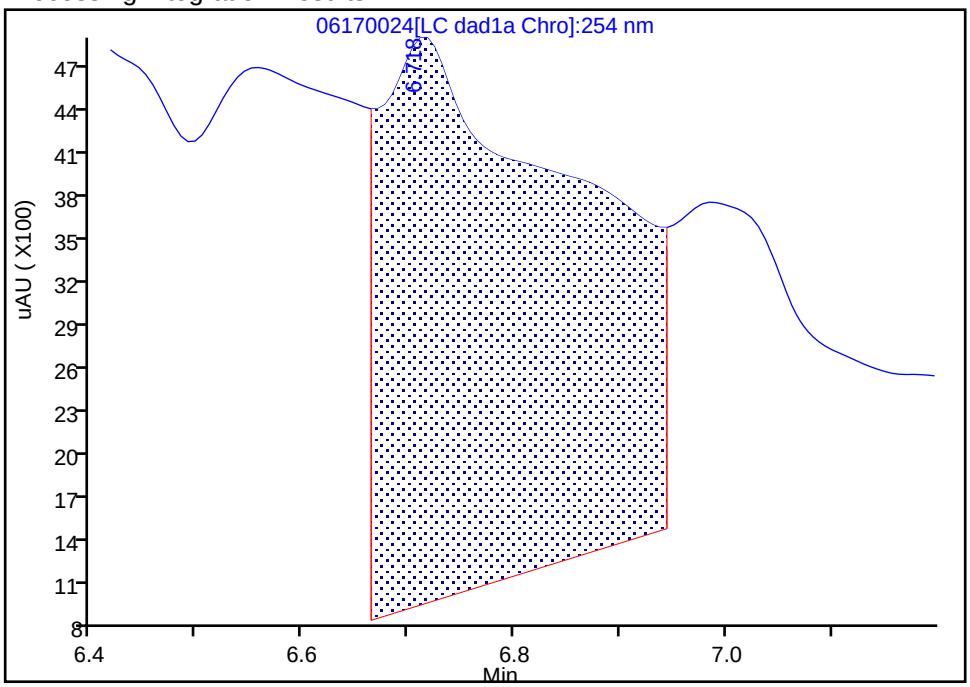
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170024.d				
Injection Date:	18-Jun-2020 01:20:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

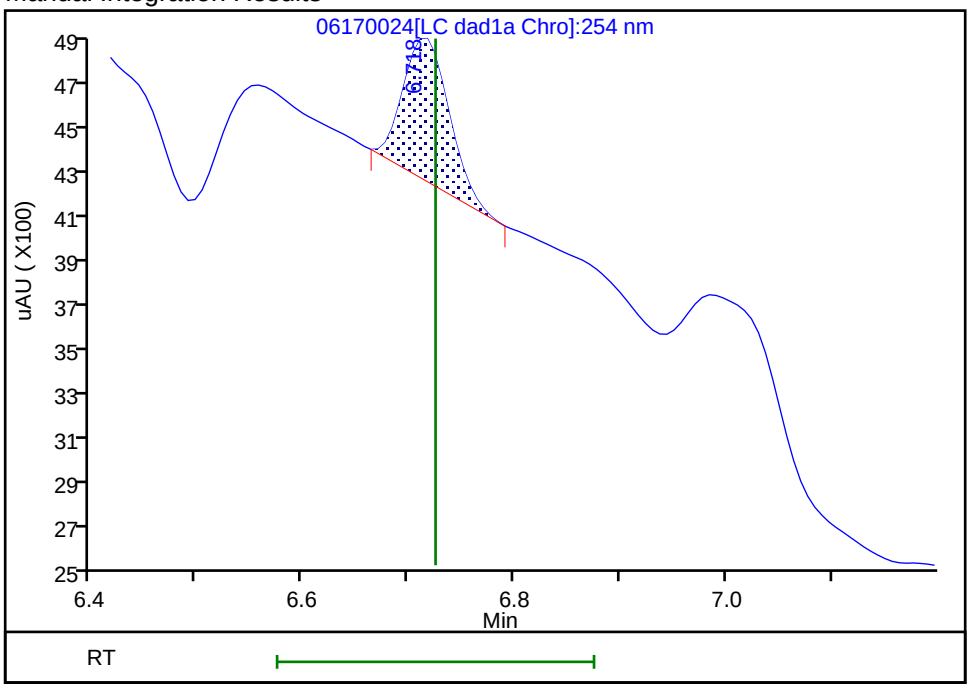
Processing Integration Results

RT: 6.72
Area: 49377
Amount: 0.574404
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 1892
Amount: 0.022010
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:48:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

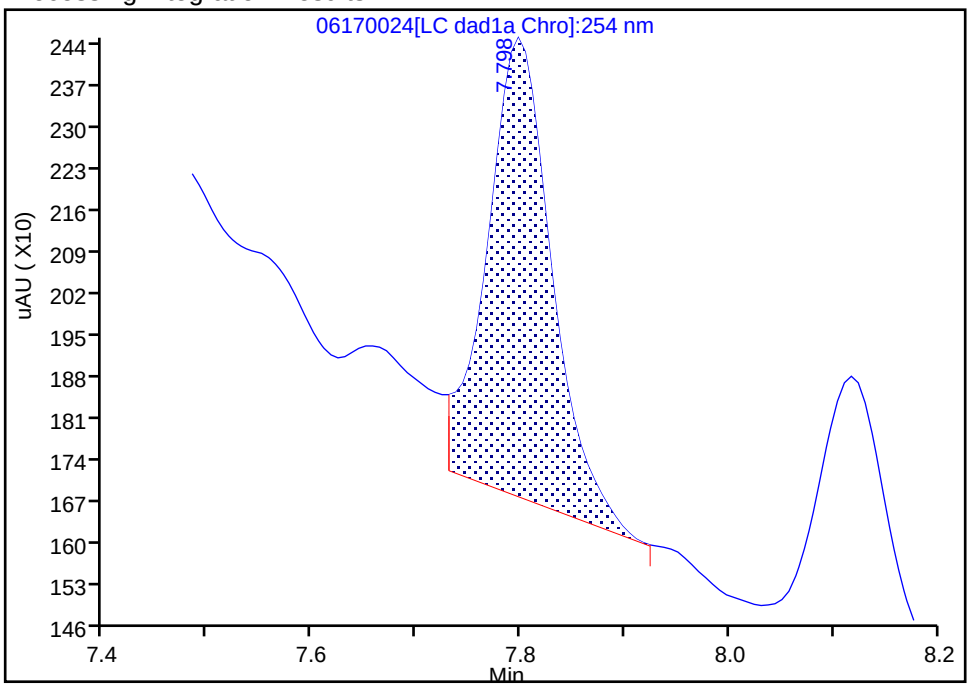
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200617-92523.b\06170024.d				
Injection Date:	18-Jun-2020 01:20:39	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137006-B-4-C MSD				
Client ID:	OS001-DP03-45				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
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

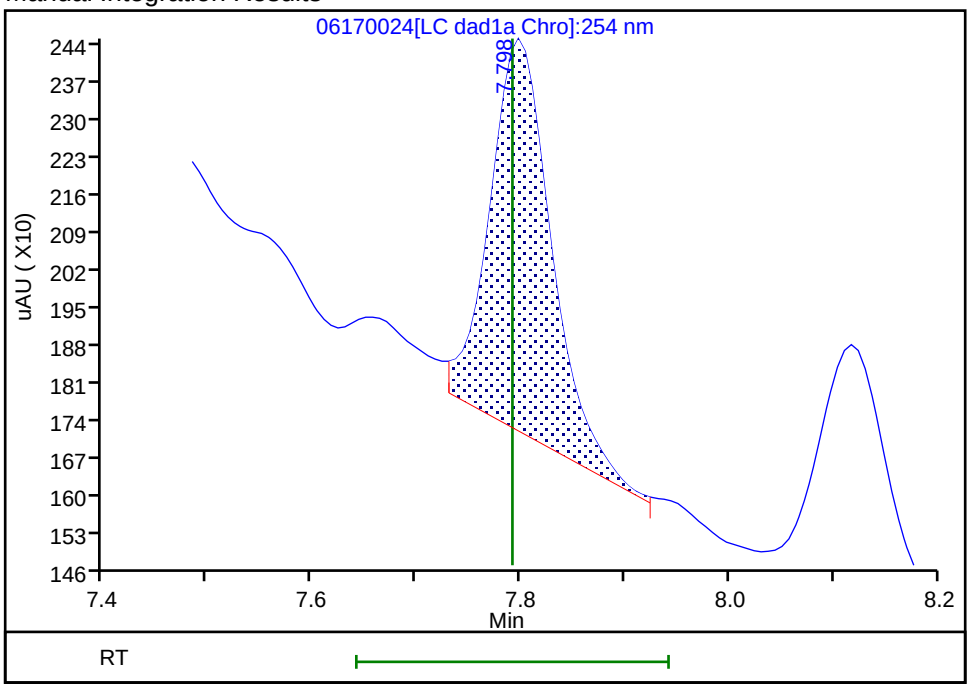
Processing Integration Results

RT: 7.80
Area: 3361
Amount: 0.028822
Amount Units: ug/mL



Manual Integration Results

RT: 7.80
Area: 3013
Amount: 0.025838
Amount Units: ug/mL



Reviewer: zhangji, 18-Jun-2020 19:48:44
Audit Action: Assigned New Baseline Audit Reason: Baseline

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 03/04/2020 14:07

Analysis Batch Number: 487658 End Date: 03/05/2020 00:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-487658/7		03/04/2020 14:07	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/8		03/04/2020 14:30	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/9		03/04/2020 14:53	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/10		03/04/2020 15:16	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/11		03/04/2020 15:39	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/12		03/04/2020 16:01	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/13		03/04/2020 16:24	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/14		03/04/2020 16:47	1		UltraCarb5uODS 4.6(mm)
ICV 280-487658/15		03/04/2020 17:10	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/16		03/04/2020 17:33	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/17		03/04/2020 17:56	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/18		03/04/2020 18:19	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/19		03/04/2020 18:42	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/20		03/04/2020 19:05	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/21		03/04/2020 19:28	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/22		03/04/2020 19:51	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/23		03/04/2020 20:14	1		UltraCarb5uODS 4.6(mm)
ICV 280-487658/24		03/04/2020 20:37	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/25		03/04/2020 21:00	1	03040025.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/26		03/04/2020 21:23	1	03040026.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/27		03/04/2020 21:45	1	03040027.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/28		03/04/2020 22:09	1	03040028.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/29		03/04/2020 22:31	1	03040029.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/30		03/04/2020 22:54	1	03040030.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/31		03/04/2020 23:17	1	03040031.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/32		03/04/2020 23:40	1	03040032.D	UltraCarb5uODS 4.6(mm)
ICV 280-487658/33		03/05/2020 00:03	1	03040033.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 03/18/2020 11:35

Analysis Batch Number: 489145 End Date: 03/18/2020 15:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-489145/7		03/18/2020 11:35	1	03180007.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/8		03/18/2020 11:58	1	03180008.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/9		03/18/2020 12:21	1	03180009.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/10		03/18/2020 12:44	1	03180010.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/11		03/18/2020 13:07	1	03180011.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/12		03/18/2020 13:30	1	03180012.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/13		03/18/2020 13:53	1	03180013.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/14		03/18/2020 14:16	1	03180014.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/15		03/18/2020 14:39	1	03180015.D	UltraCarb5uODS 4.6(mm)
ICV 280-489145/16		03/18/2020 15:02	1	03180016.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 05/14/2020 16:16

Analysis Batch Number: 494886 End Date: 05/15/2020 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-494886/7		05/14/2020 16:16	1	05140007.D	Luna-phenylhex 4.6(mm)
IC 280-494886/8		05/14/2020 16:51	1	05140008.D	Luna-phenylhex 4.6(mm)
IC 280-494886/9		05/14/2020 17:26	1	05140009.D	Luna-phenylhex 4.6(mm)
IC 280-494886/10		05/14/2020 18:01	1	05140010.D	Luna-phenylhex 4.6(mm)
IC 280-494886/11		05/14/2020 18:36	1	05140011.D	Luna-phenylhex 4.6(mm)
IC 280-494886/12		05/14/2020 19:11	1	05140012.D	Luna-phenylhex 4.6(mm)
IC 280-494886/13		05/14/2020 19:46	1	05140013.D	Luna-phenylhex 4.6(mm)
IC 280-494886/14		05/14/2020 20:21	1	05140014.D	Luna-phenylhex 4.6(mm)
IC 280-494886/15		05/14/2020 20:56	1	05140015.D	Luna-phenylhex 4.6(mm)
ICV 280-494886/16		05/14/2020 21:31	1	05140016.D	Luna-phenylhex 4.6(mm)
IC 280-494886/17		05/14/2020 22:06	1	05140017.D	Luna-phenylhex 4.6(mm)
IC 280-494886/18		05/14/2020 22:41	1	05140018.D	Luna-phenylhex 4.6(mm)
IC 280-494886/19		05/14/2020 23:16	1	05140019.D	Luna-phenylhex 4.6(mm)
IC 280-494886/20		05/14/2020 23:51	1	05140020.D	Luna-phenylhex 4.6(mm)
IC 280-494886/21		05/15/2020 00:26	1	05140021.D	Luna-phenylhex 4.6(mm)
IC 280-494886/22		05/15/2020 01:01	1	05140022.D	Luna-phenylhex 4.6(mm)
IC 280-494886/23		05/15/2020 01:36	1	05140023.D	Luna-phenylhex 4.6(mm)
IC 280-494886/24		05/15/2020 02:11	1	05140024.D	Luna-phenylhex 4.6(mm)
IC 280-494886/25		05/15/2020 02:46	1		Luna-phenylhex 4.6(mm)
ICV 280-494886/26		05/15/2020 03:21	1	05140026.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 03:56	50		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 04:31	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 05:06	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/30		05/15/2020 05:41	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/31		05/15/2020 06:16	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 06:51	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 07:26	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 08:01	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 08:36	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 09:11	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 09:46	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 10:21	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 10:56	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 11:31	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 12:06	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/42		05/15/2020 12:40	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/43		05/15/2020 13:15	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 13:50	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 14:25	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 15:00	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 15:35	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 16:10	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 16:45	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 17:20	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 17:55	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 05/14/2020 16:16

Analysis Batch Number: 494886 End Date: 05/15/2020 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/15/2020 18:30	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 19:05	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/54		05/15/2020 19:40	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/55		05/15/2020 20:15	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/11/2020 18:25

Analysis Batch Number: 498360 End Date: 06/12/2020 07:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-498360/16		06/11/2020 18:25	1	06110016.D	UltraCarb5uODS 4.6(mm)
CCV 280-498360/17		06/11/2020 18:48	1	06110017.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/11/2020 19:11	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/11/2020 19:34	1		UltraCarb5uODS 4.6(mm)
LCS 280-496861/2-A		06/11/2020 21:06	1	06110023.D	UltraCarb5uODS 4.6(mm)
LCSD 280-496861/3-A		06/11/2020 21:29	1	06110024.D	UltraCarb5uODS 4.6(mm)
LCS 280-496861/4-A		06/11/2020 21:52	1	06110025.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/11/2020 23:01	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/11/2020 23:24	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/11/2020 23:47	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 00:10	1		UltraCarb5uODS 4.6(mm)
CCV 280-498360/32		06/12/2020 00:33	1	06110032.D	UltraCarb5uODS 4.6(mm)
CCV 280-498360/33		06/12/2020 00:56	1	06110033.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 01:19	1		UltraCarb5uODS 4.6(mm)
280-137006-1		06/12/2020 01:42	1	06110035.D	UltraCarb5uODS 4.6(mm)
280-137006-4		06/12/2020 02:05	1	06110036.D	UltraCarb5uODS 4.6(mm)
280-137006-4 MS		06/12/2020 02:28	1	06110037.D	UltraCarb5uODS 4.6(mm)
280-137006-4 MSD		06/12/2020 02:51	1	06110038.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 03:14	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 03:37	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 04:00	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 04:23	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 04:46	1		UltraCarb5uODS 4.6(mm)
CCV 280-498360/48		06/12/2020 06:41	1	06110048.D	UltraCarb5uODS 4.6(mm)
CCV 280-498360/49		06/12/2020 07:04	1	06110049.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/12/2020 13:26

Analysis Batch Number: 498536 End Date: 06/12/2020 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-498536/7		06/12/2020 13:26	1	06120007.D	UltraCarb5uODS 4.6(mm)
CCV 280-498536/8		06/12/2020 13:49	1		UltraCarb5uODS 4.6(mm)
CCV 280-498536/9		06/12/2020 14:12	1	06120009.D	UltraCarb5uODS 4.6(mm)
MB 280-496861/1-A		06/12/2020 14:35	1	06120010.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 14:58	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 15:21	1		UltraCarb5uODS 4.6(mm)
280-137006-1 DL		06/12/2020 15:44	10	06120013.D	UltraCarb5uODS 4.6(mm)
280-137006-4 DL		06/12/2020 16:07	10	06120014.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 16:30	10		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 16:53	10		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 17:16	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 17:39	1		UltraCarb5uODS 4.6(mm)
CCV 280-498536/19		06/12/2020 18:02	1	06120019.D	UltraCarb5uODS 4.6(mm)
CCV 280-498536/20		06/12/2020 18:25	1	06120020.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/12/2020 18:02

Analysis Batch Number: 498537 End Date: 06/13/2020 07:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-498537/19		06/12/2020 18:02	1	06120019.D	UltraCarb5uODS 4.6(mm)
CCV 280-498537/20		06/12/2020 18:25	1	06120020.D	UltraCarb5uODS 4.6(mm)
MB 280-497003/1-A		06/12/2020 18:48	1	06120021.D	UltraCarb5uODS 4.6(mm)
LCS 280-497003/2-A		06/12/2020 19:11	1	06120022.D	UltraCarb5uODS 4.6(mm)
LCSD 280-497003/3-A		06/12/2020 19:34	1	06120023.D	UltraCarb5uODS 4.6(mm)
LCS 280-497003/4-A		06/12/2020 19:57	1	06120024.D	UltraCarb5uODS 4.6(mm)
LCSD 280-497003/5-A		06/12/2020 20:20	1	06120025.D	UltraCarb5uODS 4.6(mm)
280-137006-2		06/12/2020 20:43	1	06120026.D	UltraCarb5uODS 4.6(mm)
280-137006-3		06/12/2020 21:06	1	06120027.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 21:29	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 21:52	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 22:15	1		UltraCarb5uODS 4.6(mm)
CCV 280-498537/31		06/12/2020 22:38	1	06120031.D	UltraCarb5uODS 4.6(mm)
CCV 280-498537/32		06/12/2020 23:01	1	06120032.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 23:24	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/12/2020 23:47	10		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 00:10	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 00:33	20		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 00:56	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 01:19	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 01:42	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 02:05	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 02:28	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/13/2020 02:51	1		UltraCarb5uODS 4.6(mm)
CCV 280-498537/43		06/13/2020 03:14	1		UltraCarb5uODS 4.6(mm)
CCV 280-498537/46		06/13/2020 06:40	1		UltraCarb5uODS 4.6(mm)
CCV 280-498537/47		06/13/2020 07:03	1		UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 06/12/2020 17:18

Analysis Batch Number: 498568 End Date: 06/13/2020 10:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-498568/7		06/12/2020 17:18	1		Luna-phenylhex 4.6(mm)
CCV 280-498568/8		06/12/2020 17:53	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/12/2020 18:28	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/12/2020 19:03	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/12/2020 19:38	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/12/2020 20:13	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/12/2020 20:48	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/12/2020 21:23	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/12/2020 21:58	1		Luna-phenylhex 4.6(mm)
CCV 280-498568/16		06/12/2020 22:33	1	06120016.D	Luna-phenylhex 4.6(mm)
CCV 280-498568/17		06/12/2020 23:08	1	06120017.D	Luna-phenylhex 4.6(mm)
280-137006-1		06/12/2020 23:42	1	06120018.D	Luna-phenylhex 4.6(mm)
280-137006-4		06/13/2020 00:17	1	06120019.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 00:53	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 01:27	1		Luna-phenylhex 4.6(mm)
280-137006-1 DL		06/13/2020 02:02	10	06120022.D	Luna-phenylhex 4.6(mm)
280-137006-4 DL		06/13/2020 02:37	10	06120023.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 03:12	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 03:47	10		Luna-phenylhex 4.6(mm)
CCV 280-498568/26		06/13/2020 04:22	1	06120026.D	Luna-phenylhex 4.6(mm)
CCV 280-498568/27		06/13/2020 04:57	1	06120027.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 05:32	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 06:07	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 06:42	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 07:17	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 07:52	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 08:27	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/13/2020 09:02	1		Luna-phenylhex 4.6(mm)
CCV 280-498568/35		06/13/2020 09:37	1		Luna-phenylhex 4.6(mm)
CCV 280-498568/36		06/13/2020 10:12	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 06/17/2020 17:55

Analysis Batch Number: 499146 End Date: 06/19/2020 04:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-499146/7		06/17/2020 17:55	1	06170007.D	Luna-phenylhex 4.6(mm)
CCV 280-499146/8		06/17/2020 18:30	1	06170008.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/17/2020 19:05	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/17/2020 19:40	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/17/2020 20:15	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/17/2020 20:50	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/17/2020 21:25	1		Luna-phenylhex 4.6(mm)
280-137006-2		06/17/2020 22:00	1	06170014.D	Luna-phenylhex 4.6(mm)
280-137006-2 DL		06/17/2020 22:35	10	06170015.D	Luna-phenylhex 4.6(mm)
280-137006-3		06/17/2020 23:10	1	06170016.D	Luna-phenylhex 4.6(mm)
280-137006-3 DL		06/17/2020 23:45	10	06170017.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 00:20	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/19		06/18/2020 00:55	1	06170019.D	Luna-phenylhex 4.6(mm)
CCV 280-499146/20		06/18/2020 01:30	1	06170020.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 02:05	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 02:39	20		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 03:14	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 03:49	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 04:24	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 04:59	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 05:34	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 06:09	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 06:44	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 07:19	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/31		06/18/2020 07:54	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/32		06/18/2020 08:29	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 09:04	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 09:39	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 10:14	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 10:49	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 11:24	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 11:59	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 12:34	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 13:09	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 13:44	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 14:19	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/43		06/18/2020 14:54	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/44		06/18/2020 15:29	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 16:04	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 16:39	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 17:14	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 17:49	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 18:24	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 18:59	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 19:34	10		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 06/17/2020 17:55

Analysis Batch Number: 499146 End Date: 06/19/2020 04:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/18/2020 20:09	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 20:44	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 21:19	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/55		06/18/2020 21:54	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/56		06/18/2020 22:29	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 23:04	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/18/2020 23:39	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 00:14	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 00:49	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 01:24	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 01:59	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 02:34	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 03:09	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/65		06/19/2020 03:44	1		Luna-phenylhex 4.6(mm)
CCV 280-499146/66		06/19/2020 04:19	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/17/2020 18:02

Analysis Batch Number: 499164 End Date: 06/17/2020 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-499164/7		06/17/2020 18:02	1	06170007.D	UltraCarb5uODS 4.6(mm)
CCV 280-499164/8		06/17/2020 18:26	1		UltraCarb5uODS 4.6(mm)
CCV 280-499164/9		06/17/2020 18:49	1	06170009.D	UltraCarb5uODS 4.6(mm)
280-137006-2 DL		06/17/2020 19:12	10	06170010.D	UltraCarb5uODS 4.6(mm)
280-137006-3 DL		06/17/2020 19:35	10	06170011.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/17/2020 19:58	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/17/2020 20:21	1		UltraCarb5uODS 4.6(mm)
CCV 280-499164/14		06/17/2020 20:44	1	06170014.D	UltraCarb5uODS 4.6(mm)
CCV 280-499164/15		06/17/2020 21:53	1	009-1501.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/17/2020 20:44

Analysis Batch Number: 499165 End Date: 06/18/2020 15:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-499165/14		06/17/2020 20:44	1	06170014.D	UltraCarb5uODS 4.6(mm)
CCV 280-499165/15		06/17/2020 21:53	1	009-1501.D	UltraCarb5uODS 4.6(mm)
MB 280-498875/1-A		06/17/2020 22:16	1	016-1601.D	UltraCarb5uODS 4.6(mm)
LCS 280-498875/2-A		06/17/2020 22:39	1	06170017.D	UltraCarb5uODS 4.6(mm)
LCS 280-498875/3-A		06/17/2020 23:02	1	06170018.D	UltraCarb5uODS 4.6(mm)
280-137006-4 RE		06/17/2020 23:25	1	06170019.D	UltraCarb5uODS 4.6(mm)
280-137006-4 MS RE		06/17/2020 23:48	1	06170020.D	UltraCarb5uODS 4.6(mm)
280-137006-4 MSD RE		06/18/2020 00:11	1	06170021.D	UltraCarb5uODS 4.6(mm)
280-137006-4 REDL		06/18/2020 00:34	10	06170022.D	UltraCarb5uODS 4.6(mm)
280-137006-4 MS REDL		06/18/2020 00:57	10	06170023.D	UltraCarb5uODS 4.6(mm)
280-137006-4 MSD REDL		06/18/2020 01:20	10	06170024.D	UltraCarb5uODS 4.6(mm)
CCV 280-499165/26		06/18/2020 02:06	1	06170026.D	UltraCarb5uODS 4.6(mm)
CCV 280-499165/27		06/18/2020 02:29	1	06170027.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 03:38	10		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 04:01	10		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 04:24	10		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 04:47	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 05:10	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 05:33	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 05:56	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 06:19	1		UltraCarb5uODS 4.6(mm)
CCV 280-499165/38		06/18/2020 06:42	1		UltraCarb5uODS 4.6(mm)
CCV 280-499165/39		06/18/2020 07:05	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 07:28	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 07:51	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 08:14	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 08:37	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 09:00	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 09:23	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 09:46	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 10:09	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 10:32	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 10:55	1		UltraCarb5uODS 4.6(mm)
CCV 280-499165/50		06/18/2020 11:18	1		UltraCarb5uODS 4.6(mm)
CCV 280-499165/51		06/18/2020 11:41	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 12:04	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 12:27	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 12:50	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 13:13	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 13:37	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 14:00	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/18/2020 14:23	1		UltraCarb5uODS 4.6(mm)
CCV 280-499165/59		06/18/2020 14:46	1		UltraCarb5uODS 4.6(mm)
CCV 280-499165/60		06/18/2020 15:09	1		UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 06/19/2020 07:50

Analysis Batch Number: 499350 End Date: 06/20/2020 08:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-499350/7		06/19/2020 07:50	1	007-7001.D	Luna-phenylhex 4.6(mm)
CCV 280-499350/8		06/19/2020 08:25	1	008-7101.D	Luna-phenylhex 4.6(mm)
MB 280-498875/1-A		06/19/2020 09:00	1	009-7201.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 09:35	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 10:10	1		Luna-phenylhex 4.6(mm)
280-137006-4 RE		06/19/2020 10:45	1	012-7501.D	Luna-phenylhex 4.6(mm)
280-137006-4 MS RE		06/19/2020 11:20	1	013-7601.D	Luna-phenylhex 4.6(mm)
280-137006-4 MSD RE		06/19/2020 11:55	1	014-7701.D	Luna-phenylhex 4.6(mm)
280-137006-4 REDL		06/19/2020 12:30	10	015-7801.D	Luna-phenylhex 4.6(mm)
280-137006-4 MS REDL		06/19/2020 13:05	10	016-7901.D	Luna-phenylhex 4.6(mm)
280-137006-4 MSD REDL		06/19/2020 13:40	10	017-8001.D	Luna-phenylhex 4.6(mm)
CCV 280-499350/19		06/19/2020 14:50	1	007-8201.D	Luna-phenylhex 4.6(mm)
CCV 280-499350/20		06/19/2020 15:25	1	008-8301.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 17:10	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 17:45	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 18:20	10		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 18:55	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 19:30	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 20:05	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 20:40	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 21:15	1		Luna-phenylhex 4.6(mm)
CCV 280-499350/31		06/19/2020 21:50	1		Luna-phenylhex 4.6(mm)
CCV 280-499350/32		06/19/2020 22:25	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 23:00	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/19/2020 23:35	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 00:10	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 00:45	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 01:19	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 01:54	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 02:29	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 03:04	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 03:39	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 04:14	1		Luna-phenylhex 4.6(mm)
CCV 280-499350/43		06/20/2020 04:49	1		Luna-phenylhex 4.6(mm)
CCV 280-499350/44		06/20/2020 05:24	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 05:59	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 06:34	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 07:09	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/20/2020 07:44	1		Luna-phenylhex 4.6(mm)
CCV 280-499350/49		06/20/2020 08:19	1		Luna-phenylhex 4.6(mm)
CCV 280-499350/50		06/20/2020 08:54	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Batch Number: 496861 Batch Start Date: 06/01/20 10:20 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/01/20 13:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00098	8330_OP_DMT 00008
MB 280-496861/1		3535, 8330A				500 mL	5 mL		
LCS 280-496861/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCSD 280-496861/3		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-496861/4		3535, 8330A				500 mL	5 mL		0.1 mL
280-137006-A-1	OS001-DP03-25	3535, 8330A	T	716.2 g	248.9 g	467.3 mL	5 mL		
280-137006-A-4	OS001-DP03-45	3535, 8330A	T	719.3 g	249.7 g	469.6 mL	5 mL		
280-137006-A-4 MS	OS001-DP03-45	3535, 8330A	T	710.0 g	249.1 g	460.9 mL	5 mL		0.1 mL
280-137006-A-4 MSD	OS001-DP03-45	3535, 8330A	T	719.3 g	249.6 g	469.7 mL	5 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00116	AnalysisComment				
MB 280-496861/1		3535, 8330A		0.1 mL					
LCS 280-496861/2		3535, 8330A		0.1 mL	8330				
LCSD 280-496861/3		3535, 8330A		0.1 mL	8330				
LCS 280-496861/4		3535, 8330A		0.1 mL	DMT				
280-137006-A-1	OS001-DP03-25	3535, 8330A	T	0.1 mL					
280-137006-A-4	OS001-DP03-45	3535, 8330A	T	0.1 mL					
280-137006-A-4 MS	OS001-DP03-45	3535, 8330A	T	0.1 mL	DMT				
280-137006-A-4 MSD	OS001-DP03-45	3535, 8330A	T	0.1 mL	DMT				

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.: 280-137006-1

SDG No.:

Batch Number: 496861 Batch Start Date: 06/01/20 10:20 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/01/20 13:55

Batch Notes	
Acid ID	CaCl2_Sol_00071
Acid Name	CaCl2
Balance ID	24350888
Batch Comment	DV-OP-0017 Mantel:A/C
First End time	06/01/2020 13:30
Pipette/Syringe/Dispenser ID	Jiji, DOD, Soot
Rinse Solvent Lot	0.1%AAinACN_00138
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00234
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	MA
Analyst ID - Spike Witness Analyst	Reviewer:self
First Start time	06/01/2020 10:26

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Batch Number: 497003 Batch Start Date: 06/02/20 12:47 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/02/20 15:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00098	8330_OP_DMT 00008
MB 280-497003/1		3535, 8330A				500 mL	5 mL		
LCS 280-497003/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCSD 280-497003/3		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-497003/4		3535, 8330A				500 mL	5 mL		0.1 mL
LCSD 280-497003/5		3535, 8330A				500 mL	5 mL		0.1 mL
280-137006-B-2	OS501-DP03-25	3535, 8330A	T	697.7 g	250.4 g	447.3 mL	5 mL		
280-137006-B-3	OS001-DP03-35	3535, 8330A	T	723.9 g	255.0 g	468.9 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00115	AnalysisComment				
MB 280-497003/1		3535, 8330A		0.1 mL					
LCS 280-497003/2		3535, 8330A		0.1 mL	8330				
LCSD 280-497003/3		3535, 8330A		0.1 mL	8330				
LCS 280-497003/4		3535, 8330A		0.1 mL	DMT				
LCSD 280-497003/5		3535, 8330A		0.1 mL	DMT				
280-137006-B-2	OS501-DP03-25	3535, 8330A	T	0.1 mL					
280-137006-B-3	OS001-DP03-35	3535, 8330A	T	0.1 mL					

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.: 280-137006-1

SDG No.:

Batch Number: 497003 Batch Start Date: 06/02/20 12:47 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/02/20 15:07

Batch Notes	
Acid ID	CaCl2_Sol_00071
Acid Name	CaCl2
Balance ID	24350888
Batch Comment	DV-OP-0017 Mantel:A
First End time	06/02/2020 14:42
Pipette/Syringe/Dispenser ID	Jiji, DOD, Soot
Rinse Solvent Lot	0.1%AAinACN_00138
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00234
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	MA
Analyst ID - Spike Witness Analyst	Reviewer:MB
First Start time	06/02/2020 12:54

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137006-1

SDG No.:

Batch Number: 498875 Batch Start Date: 06/16/20 10:10 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/16/20 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00099	8330_OP_DMT 00008
MB 280-498875/1		3535, 8330A				500 mL	5 mL		
LCS 280-498875/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-498875/3		3535, 8330A				500 mL	5 mL		0.1 mL
280-137006-B-4	OS001-DP03-45	3535, 8330A	T	722.8 g	250.7 g	472.1 mL	5 mL		
280-137006-B-4 MS	OS001-DP03-45	3535, 8330A	T	713.7 g	249.2 g	464.5 mL	5 mL	0.1 mL	
280-137006-B-4 MSD	OS001-DP03-45	3535, 8330A	T	722.4 g	250.1 g	472.3 mL	5 mL	0.1 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00116	AnalysisComment				
MB 280-498875/1		3535, 8330A		0.1 mL					
LCS 280-498875/2		3535, 8330A		0.1 mL	8330				
LCS 280-498875/3		3535, 8330A		0.1 mL	DMT				
280-137006-B-4	OS001-DP03-45	3535, 8330A	T	0.1 mL					
280-137006-B-4 MS	OS001-DP03-45	3535, 8330A	T	0.1 mL	8330				
280-137006-B-4 MSD	OS001-DP03-45	3535, 8330A	T	0.1 mL	8330				

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.: 280-137006-1

SDG No.:

Batch Number: 498875 Batch Start Date: 06/16/20 10:10 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/16/20 12:00

Batch Notes	
Acid ID	CaCl2_Sol_00071
Acid Name	CaCl2
Balance ID	24350888
Batch Comment	DV-OP-0017 Mantel:A/B
First End time	06/16/2020 11:30
Pipette/Syringe/Dispenser ID	Jiji, DOD, Soot
Rinse Solvent Lot	0.1%AAinACN_00138
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00234
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005039204A/005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	MA
Analyst ID - Spike Witness Analyst	Reviewer:AG
First Start time	06/16/2020 10:19

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

Page ___ of ___

Project Name: CHAAP 2019
AECOM Project Number: 60565355
Project Location: Grand Island, Nebraska
AECOM Project Manager: Dean Converse
Sampler(s): TY JO

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
5-26	1410		X	05001-DP03-25	AQ	2	A	X							6°C
5-26	0800		X	05501-DP03-25	AQ	2	A	X							6°
5-26	1505		X	05001-DP03-35	AQ	2	A	X							6°
5-26	1545		X	05001-DP03-45	AQ	6	A	X							6°

Remarks: standard TAT

280-137006 Chain of Custody

Signatures	Date	Time
Relinquished by:	5-27	
Received by: ETADen	5/28/20	0945
Relinquished by:		
Received for Laboratory by:		

Shipping Details
Method of Shipment: Federal Express
Airbill Number: 8156 59 227586

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

1.5 IR 8 +0.6 RB 5/28/20

White copy - Laboratory Yellow copy - Laboratory Pink copy - Sampler

2019536

FedEx®

Do Not Lift Using This Tag

ORIGIN ID:GRIA

SHIP DATE: 27MAY20
ACTWGT: 49.00 LB
CAD: /SSFE2110
DIMS: 23x13x13 IN

TO SAMPLE RECEIVING
TEST AMERICA DENVER
4955 YARROW ST

ARVADA CO 80002-4517 (US)
(303) 736-0100 REF:
INV: DEPT:
PO:

FedEx Express

280-137006 Waybill

THU - 28 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0667 8156 5922 7586

XH WHHA

80002
CO-US DEN

319 1 10:30 A
7586
05 28

Login Sample Receipt Checklist

Client: Brice Environmental Services, Corp

Job Number: 280-137006-1

Login Number: 137006
List Number: 1
Creator: Bentley, Beau J

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.	True	
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.	N/A	
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	